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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1347

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1347

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q1347-01	BP-VPB-192-EB-20250207
Q1347-02	BP-VPB-192-TB-20250206
Q1347-03	BP-VPB-192-GW-710-712
Q1347-04	BP-VPB-192-GW-640-642
Q1347-05	BP-VPB-192-GW-660-662
Q1347-06	BP-VPB-192-GW-680-682

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 9:41 am, Feb 24, 2025

Date: 2/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager: Ernie Wu
Chemtech Project # Q1347
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
6 Water samples were received on 02/10/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis perform ed on instrument MSVOA_X were done using GC colu mn DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 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 %RSD is greater than 20% in the Initial Calibration method (82X021025W.M) for Chloroethane is passing on Quadratic Regression.

The Continuous Calibration File ID VX044920.D met the requirements except for Chloroethane, The associate samples have no positive hit for this compound; therefore no corrective action was required.

The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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The Sample #BP-VPB-192-TB-20250206 and BP-VPB-192-GW-680-682 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

VIAL A and B combined to run sample # 05 and 06 as both having much sediment and not possible to run separately.

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

The not QT review data is reported in the Miscellaneous.

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

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

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

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 9:41 am, Feb 24, 2025

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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: Q1347 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 20% in the Initial Calibration method (82X021025W.M) for Chloroethane is passing on Quadratic Regression. The Continuous Calibration File ID VX044920.D met the requirements except for Chloroethane, The associate samples have no positive hit for this compound; therefore no corrective action was required .			✓
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.			✓
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:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

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

NA NO YES

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

The Sample #BP-VPB-192-TB-20250206 and BP-VPB-192-GW-680-682 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.
The not QT review data is reported in the Miscellaneous.

VIAL A and B combined to run sample # 05 and 06 as both having much sediment and not possible to run separately.

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 9:36 am, Feb 24, 2025

Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1347

	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:** 02/21/2025

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LAB CHRONICLE

OrderID:	Q1347	**OrderDate:**	2/10/2025 3:45:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	N41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1347-01	**BP-VPB-192-EB-20250207**	**Water**			**02/07/25**			**02/10/25**
			VOCMS Group1	8260-Low			02/12/25	
Q1347-02	**BP-VPB-192-TB-20250206**	**Water**			**02/06/25**			**02/10/25**
			VOCMS Group1	8260-Low			02/12/25	
Q1347-03	**BP-VPB-192-GW-710-712**	**Water**			**02/10/25**			**02/10/25**
			VOCMS Group1	8260-Low			02/12/25	
Q1347-04	**BP-VPB-192-GW-640-642**	**Water**			**02/06/25**			**02/10/25**
			VOCMS Group1	8260-Low			02/12/25	
Q1347-05	**BP-VPB-192-GW-660-662**	**Water**			**02/06/25**			**02/10/25**
			VOCMS Group1	8260-Low			02/12/25	
Q1347-06	**BP-VPB-192-GW-680-682**	**Water**			**02/06/25**			**02/10/25**
			VOCMS Group1	8260-Low			02/12/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1347

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BP-VPB-192-EB-20250207**								
Q1347-01	BP-VPB-192-EB-2(	Water	Acetone	7.40		1.40	3.80	5.00	ug/L
			Total Voc :	7.40					
			Total Concentration:	7.40					
Client ID:	**BP-VPB-192-GW-710-712**								
Q1347-03	BP-VPB-192-GW-7	Water	Acetone	8.10		1.40	3.80	5.00	ug/L
			Total Voc :	8.10					
			Total Concentration:	8.10					
Client ID:	**BP-VPB-192-GW-640-642**								
Q1347-04	BP-VPB-192-GW-6	Water	Acetone	10.9		1.40	3.80	5.00	ug/L
			Total Voc :	10.9					
			Total Concentration:	10.9					
Client ID:	**BP-VPB-192-GW-660-662**								
Q1347-05	BP-VPB-192-GW-6	Water	Acetone	14.5		1.40	3.80	5.00	ug/L
Q1347-05	BP-VPB-192-GW-6	Water	Carbon Disulfide	0.38	J	0.32	0.75	1.00	ug/L
			Total Voc :	14.9					
			Total Concentration:	14.9					
Client ID:	**BP-VPB-192-GW-680-682**								
Q1347-06	BP-VPB-192-GW-6	Water	Acetone	34.3		1.40	3.80	5.00	ug/L
Q1347-06	BP-VPB-192-GW-6	Water	2-Butanone	8.90		1.30	2.50	5.00	ug/L
Q1347-06	BP-VPB-192-GW-6	Water	2-Hexanone	1.40	J	1.10	2.50	5.00	ug/L
			Total Voc :	44.6					
			Total Concentration:	44.6					

QC SUMMARY

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

SDG No.: Q1347

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1347-01	BP-VPB-192-EB-20250207	1,2-Dichloroethane-d4	50	55.3	111	81	118
		Dibromofluoromethane	50	50.4	101	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	52.3	105	85	114
Q1347-02	BP-VPB-192-TB-20250206	1,2-Dichloroethane-d4	50	55.4	111	81	118
		Dibromofluoromethane	50	52.4	105	80	119
		Toluene-d8	50	49.7	99	89	112
		4-Bromofluorobenzene	50	50.8	102	85	114
Q1347-03	BP-VPB-192-GW-710-712	1,2-Dichloroethane-d4	50	53.8	108	81	118
		Dibromofluoromethane	50	50.5	101	80	119
		Toluene-d8	50	49.9	100	89	112
		4-Bromofluorobenzene	50	49.6	99	85	114
Q1347-04	BP-VPB-192-GW-640-642	1,2-Dichloroethane-d4	50	55.4	111	81	118
		Dibromofluoromethane	50	51.5	103	80	119
		Toluene-d8	50	50.0	100	89	112
		4-Bromofluorobenzene	50	51.9	104	85	114
Q1347-05	BP-VPB-192-GW-660-662	1,2-Dichloroethane-d4	50	55.5	111	81	118
		Dibromofluoromethane	50	51.3	103	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	53.5	107	85	114
Q1347-06	BP-VPB-192-GW-680-682	1,2-Dichloroethane-d4	50	56.4	113	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	52.7	105	85	114
VX0212WBL01	VX0212WBL01	1,2-Dichloroethane-d4	50	54.1	108	81	118
		Dibromofluoromethane	50	51.0	102	80	119
		Toluene-d8	50	50.0	100	89	112
		4-Bromofluorobenzene	50	51.0	102	85	114
VX0212WBS01	VX0212WBS01	1,2-Dichloroethane-d4	50	50.2	100	81	118
		Dibromofluoromethane	50	49.4	99	80	119
		Toluene-d8	50	49.2	98	89	112
		4-Bromofluorobenzene	50	50.6	101	85	114
VX0212WBSD0	VX0212WBSD01	1,2-Dichloroethane-d4	50	50.4	101	81	118
		Dibromofluoromethane	50	49.5	99	80	119
		Toluene-d8	50	49.4	99	89	112
		4-Bromofluorobenzene	50	50.8	102	85	114

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1347

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044923.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0212WBS01	Chloromethane	20	18.4	ug/L	92			50	139	
	Vinyl chloride	20	17.7	ug/L	89			58	137	
	Bromomethane	20	20.2	ug/L	101			53	141	
	Chloroethane	20	21.8	ug/L	109			60	138	
	Trichlorofluoromethane	20	18.9	ug/L	95			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/L	95			70	136	
	1,1-Dichloroethene	20	18.3	ug/L	92			71	131	
	Acetone	100	95.2	ug/L	95			39	160	
	Carbon disulfide	20	16.9	ug/L	85			64	133	
	Methyl tert-butyl Ether	20	18.6	ug/L	93			71	124	
	Methylene Chloride	20	18.4	ug/L	92			74	124	
	trans-1,2-Dichloroethene	20	18.2	ug/L	91			75	124	
	1,1-Dichloroethane	20	18.6	ug/L	93			77	125	
	2-Butanone	100	97.1	ug/L	97			56	143	
	Carbon Tetrachloride	20	18.4	ug/L	92			72	136	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			78	123	
	Chloroform	20	19.1	ug/L	96			79	124	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			74	131	
	Methylcyclohexane	20	18.8	ug/L	94			72	132	
	Benzene	20	18.9	ug/L	95			79	120	
	1,2-Dichloroethane	20	19.8	ug/L	99			73	128	
	Trichloroethene	20	18.2	ug/L	91			79	123	
	1,2-Dichloropropane	20	18.5	ug/L	93			78	122	
	Bromodichloromethane	20	19.1	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	100	ug/L	100			67	130	
	Toluene	20	19.1	ug/L	96			80	121	
	t-1,3-Dichloropropene	20	18.0	ug/L	90			73	127	
	cis-1,3-Dichloropropene	20	18.1	ug/L	91			75	124	
	1,1,2-Trichloroethane	20	19.2	ug/L	96			80	119	
	2-Hexanone	100	100	ug/L	100			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	Tetrachloroethene	20	18.9	ug/L	95			74	129	
	Chlorobenzene	20	18.9	ug/L	95			82	118	
	Ethyl Benzene	20	18.9	ug/L	95			79	121	
	m/p-Xylenes	40	38.3	ug/L	96			80	121	
	o-Xylene	20	18.9	ug/L	95			78	122	
	Styrene	20	19.3	ug/L	97			78	123	
	Bromoform	20	18.9	ug/L	95			66	130	
	Isopropylbenzene	20	18.3	ug/L	92			72	131	
	1,1,2,2-Tetrachloroethane	20	18.6	ug/L	93			71	121	
	1,3-Dichlorobenzene	20	18.6	ug/L	93			80	119	
	1,4-Dichlorobenzene	20	18.6	ug/L	93			79	118	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1347

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044924.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0212WBSD01	Chloromethane	20	17.6	ug/L	88	4		50	139	20
	Vinyl chloride	20	16.9	ug/L	85	5		58	137	20
	Bromomethane	20	19.4	ug/L	97	4		53	141	20
	Chloroethane	20	22.0	ug/L	110	1		60	138	20
	Trichlorofluoromethane	20	18.6	ug/L	93	2		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	18.6	ug/L	93	2		70	136	20
	1,1-Dichloroethene	20	17.5	ug/L	88	4		71	131	20
	Acetone	100	98.2	ug/L	98	3		39	160	20
	Carbon disulfide	20	16.6	ug/L	83	2		64	133	20
	Methyl tert-butyl Ether	20	18.7	ug/L	94	1		71	124	20
	Methylene Chloride	20	18.4	ug/L	92	0		74	124	20
	trans-1,2-Dichloroethene	20	18.0	ug/L	90	1		75	124	20
	1,1-Dichloroethane	20	18.7	ug/L	94	1		77	125	20
	2-Butanone	100	99.3	ug/L	99	2		56	143	20
	Carbon Tetrachloride	20	18.7	ug/L	94	2		72	136	20
	cis-1,2-Dichloroethene	20	18.5	ug/L	93	2		78	123	20
	Chloroform	20	18.6	ug/L	93	3		79	124	20
	1,1,1-Trichloroethane	20	18.2	ug/L	91	3		74	131	20
	Methylcyclohexane	20	19.4	ug/L	97	3		72	132	20
	Benzene	20	18.9	ug/L	95	0		79	120	20
	1,2-Dichloroethane	20	20.0	ug/L	100	1		73	128	20
	Trichloroethene	20	18.7	ug/L	94	3		79	123	20
	1,2-Dichloropropane	20	19.6	ug/L	98	5		78	122	20
	Bromodichloromethane	20	19.3	ug/L	97	1		79	125	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		67	130	20
	Toluene	20	19.4	ug/L	97	1		80	121	20
	t-1,3-Dichloropropene	20	17.8	ug/L	89	1		73	127	20
	cis-1,3-Dichloropropene	20	19.3	ug/L	97	6		75	124	20
	1,1,2-Trichloroethane	20	20.3	ug/L	102	6		80	119	20
	2-Hexanone	100	110	ug/L	110	10		57	139	20
	Dibromochloromethane	20	19.0	ug/L	95	1		74	126	20
	Tetrachloroethene	20	19.0	ug/L	95	0		74	129	20
	Chlorobenzene	20	19.0	ug/L	95	0		82	118	20
	Ethyl Benzene	20	19.0	ug/L	95	0		79	121	20
	m/p-Xylenes	40	38.9	ug/L	97	1		80	121	20
	o-Xylene	20	19.5	ug/L	98	3		78	122	20
	Styrene	20	19.7	ug/L	99	2		78	123	20
	Bromoform	20	19.4	ug/L	97	2		66	130	20
	Isopropylbenzene	20	18.7	ug/L	94	2		72	131	20
	1,1,2,2-Tetrachloroethane	20	18.2	ug/L	91	2		71	121	20
	1,3-Dichlorobenzene	20	19.3	ug/L	97	4		80	119	20
	1,4-Dichlorobenzene	20	18.5	ug/L	93	0		79	118	20
	1,2-Dichlorobenzene	20	19.1	ug/L	96	1		80	119	20

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Fax : 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0212WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG NO.: Q1347

Lab File ID: VX044922.D Lab Sample ID: VX0212WBL01

Date Analyzed: 02/12/2025 Time Analyzed: 10:57

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
VX0212WBS01	VX0212WBS01	VX044923.D	02/12/2025
VX0212WBSD01	VX0212WBSD01	VX044924.D	02/12/2025
BP-VPB-192-GW-710-712	Q1347-03	VX044925.D	02/12/2025
BP-VPB-192-EB-20250207	Q1347-01	VX044926.D	02/12/2025
BP-VPB-192-TB-20250206	Q1347-02	VX044927.D	02/12/2025
BP-VPB-192-GW-640-642	Q1347-04	VX044928.D	02/12/2025
BP-VPB-192-GW-660-662	Q1347-05	VX044929.D	02/12/2025
BP-VPB-192-GW-680-682	Q1347-06	VX044930.D	02/12/2025

COMMENTS:

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG NO.: Q1347

Lab File ID: VX044867.D BFB Injection Date: 02/10/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:35

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	75.9
175	5.0 - 9.0% of mass 174	5.7 (7.5) 1
176	95.0 - 101.0% of mass 174	72.6 (95.7) 1
177	5.0 - 9.0% of mass 176	4.5 (6.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX044868.D	02/10/2025	10:25
VSTDICC005	VSTDICC005	VX044869.D	02/10/2025	10:48
VSTDICC020	VSTDICC020	VX044870.D	02/10/2025	11:11
VSTDICCC050	VSTDICCC050	VX044871.D	02/10/2025	11:34
VSTDICC100	VSTDICC100	VX044872.D	02/10/2025	12:05
VSTDICC150	VSTDICC150	VX044873.D	02/10/2025	12:28

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG NO.: Q1347

Lab File ID: VX044919.D BFB Injection Date: 02/12/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:39

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	5.6 (7.2) 1
176	95.0 - 101.0% of mass 174	74.9 (97.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044920.D	02/12/2025	10:07
VX0212WBL01	VX0212WBL01	VX044922.D	02/12/2025	10:57
VX0212WBS01	VX0212WBS01	VX044923.D	02/12/2025	11:20
VX0212WBSD01	VX0212WBSD01	VX044924.D	02/12/2025	11:46
BP-VPB-192-GW-710-712	Q1347-03	VX044925.D	02/12/2025	12:09
BP-VPB-192-EB-20250207	Q1347-01	VX044926.D	02/12/2025	12:32
BP-VPB-192-TB-20250206	Q1347-02	VX044927.D	02/12/2025	12:55
BP-VPB-192-GW-640-642	Q1347-04	VX044928.D	02/12/2025	13:17
BP-VPB-192-GW-660-662	Q1347-05	VX044929.D	02/12/2025	13:40
BP-VPB-192-GW-680-682	Q1347-06	VX044930.D	02/12/2025	14:03
VSTDCCC050EC	VSTDCCC050	VX044946.D	02/12/2025	20:11

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG NO.: Q1347

Lab File ID: VX044920.D Date Analyzed: 02/12/2025

Instrument ID: MSVOA_X Time Analyzed: 10:07

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	120105	5.54	211946	6.75	185163	10.05
UPPER LIMIT	240210	6.044	423892	7.251	370326	10.549
LOWER LIMIT	60052.5	5.044	105973	6.251	92581.5	9.549
EPA SAMPLE NO.						
BP-VPB-192-EB-20250207	84780	5.54	175612	6.76	159224	10.05
BP-VPB-192-TB-20250206	89251	5.54	183953	6.76	163403	10.05
BP-VPB-192-GW-710-712	84715	5.54	171791	6.76	152421	10.05
BP-VPB-192-GW-640-642	87862	5.55	179992	6.76	164982	10.05
BP-VPB-192-GW-660-662	87405	5.55	177786	6.76	164986	10.05
BP-VPB-192-GW-680-682	89084	5.54	185691	6.76	170107	10.05
VX0212WBL01	96997	5.54	194457	6.76	176635	10.05
VX0212WBS01	111261	5.54	204350	6.76	179478	10.05
VX0212WBSD01	109124	5.54	195530	6.75	172961	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: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG NO.: Q1347

Lab File ID: VX044920.D Date Analyzed: 02/12/2025

Instrument ID: MSVOA_X Time Analyzed: 10:07

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

	IS4 AREA #	RT #				
12 HOUR STD	84033	12.018				
UPPER LIMIT	168066	12.518				
LOWER LIMIT	42016.5	11.518				
EPA SAMPLE NO.						
BP-VPB-192-EB-20250207	69850	12.02				
BP-VPB-192-TB-20250206	68278	12.02				
BP-VPB-192-GW-710-712	62921	12.02				
BP-VPB-192-GW-640-642	70282	12.02				
BP-VPB-192-GW-660-662	70815	12.02				
BP-VPB-192-GW-680-682	73243	12.02				
VX0212WBL01	76229	12.02				
VX0212WBS01	82301	12.02				
VX0212WBSD01	79611	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:	Tetra Tech NUS, Inc.	Date Collected:	02/07/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-EB-20250207	SDG No.:	Q1347
Lab Sample ID:	Q1347-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044926.D	1		02/12/25 12:32	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	7.40		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/07/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-EB-20250207	SDG No.:	Q1347
Lab Sample ID:	Q1347-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044926.D	1		02/12/25 12:32	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.3		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	84800	5.543				
540-36-3	1,4-Difluorobenzene	176000	6.757				
3114-55-4	Chlorobenzene-d5	159000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	69900	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/07/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-EB-20250207	SDG No.:	Q1347
Lab Sample ID:	Q1347-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044926.D	1		02/12/25 12:32	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044926.D
Acq On : 12 Feb 2025 12:32
Operator : JC/MD
Sample : Q1347-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Quant Time: Feb 13 00:49:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

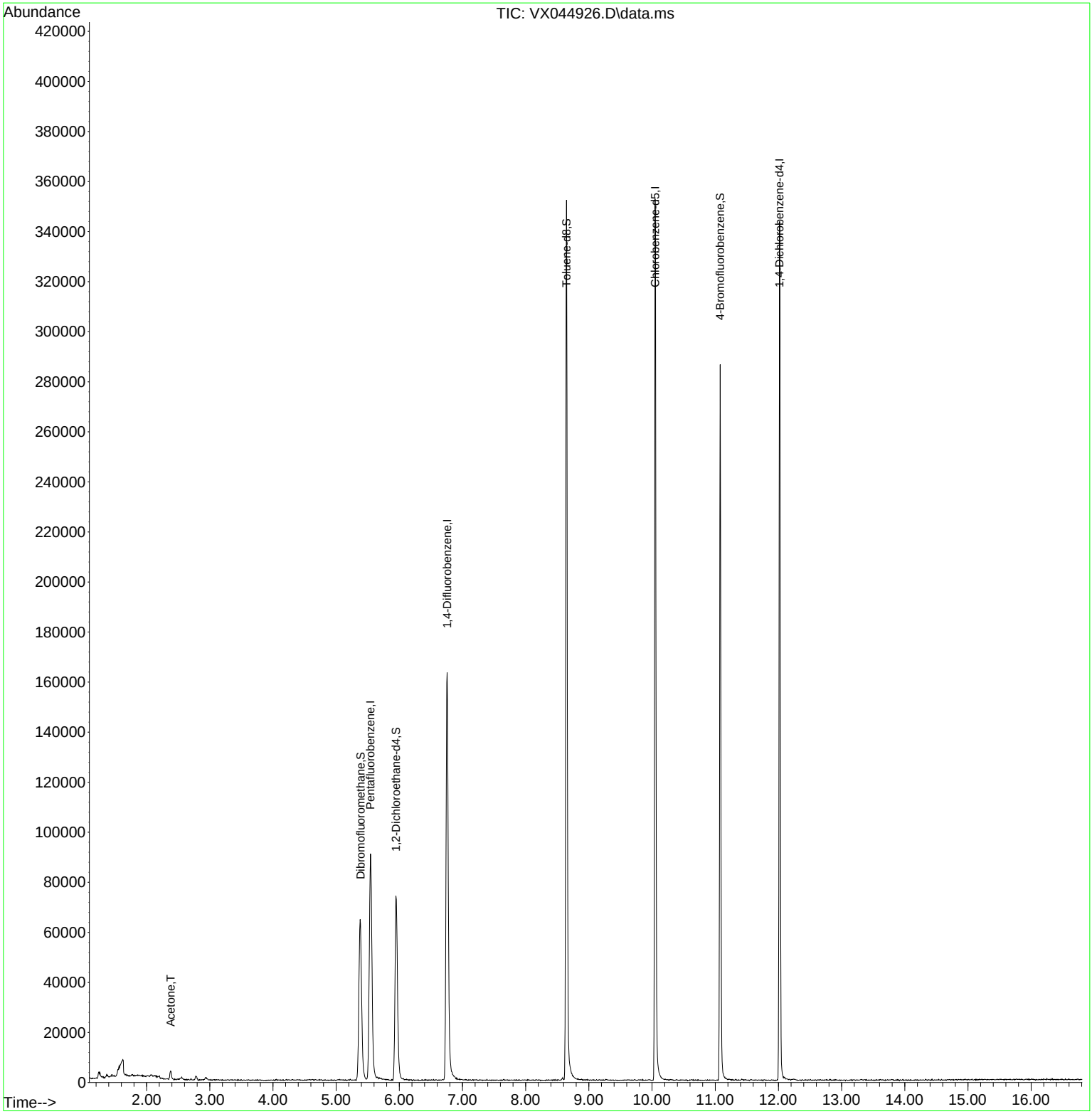
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	84780	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175612	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	159224	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	68685	55.345	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.700%			
35) Dibromofluoromethane	5.385	113	57540	50.395	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.800%			
50) Toluene-d8	8.646	98	216152	50.064	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.120%			
62) 4-Bromofluorobenzene	11.079	95	76095	52.280	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.560%			
Target Compounds						Qvalue
16) Acetone	2.379	43	3681	7.378	ug/l	95

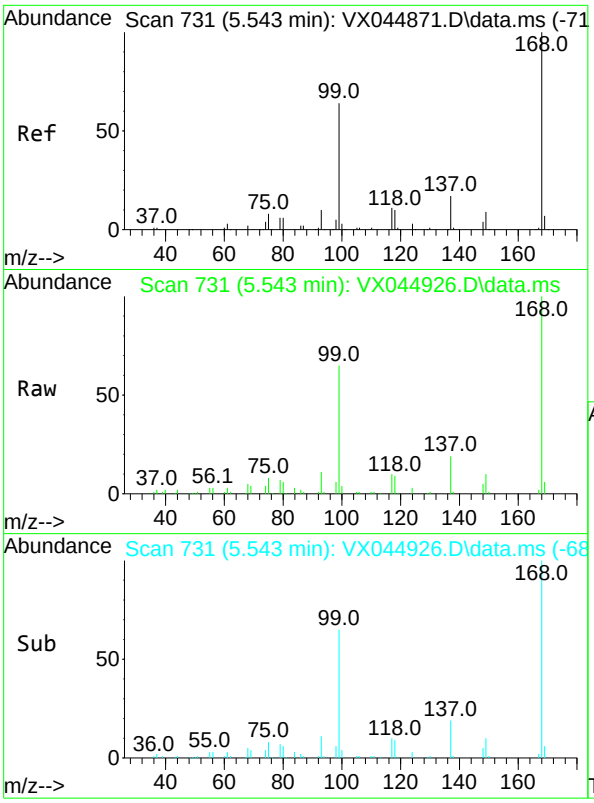
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044926.D
Acq On : 12 Feb 2025 12:32
Operator : JC/MD
Sample : Q1347-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Quant Time: Feb 13 00:49:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



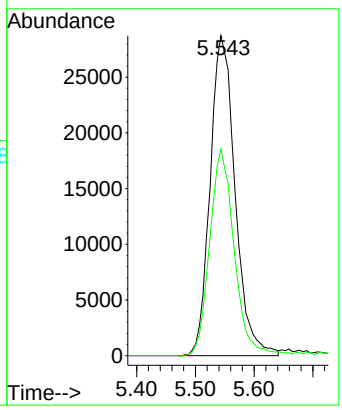


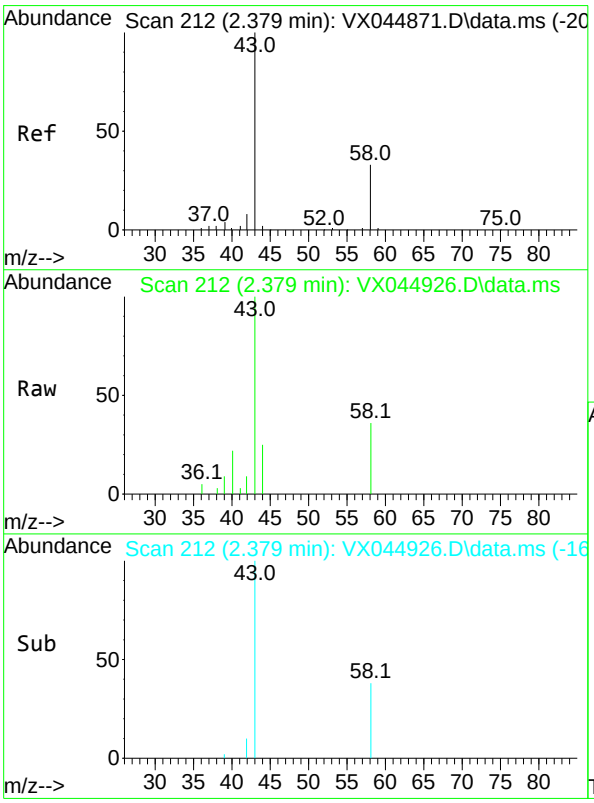
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Tgt Ion:168 Resp: 84780

Ion	Ratio	Lower	Upper
168	100		
99	64.6	51.2	76.8

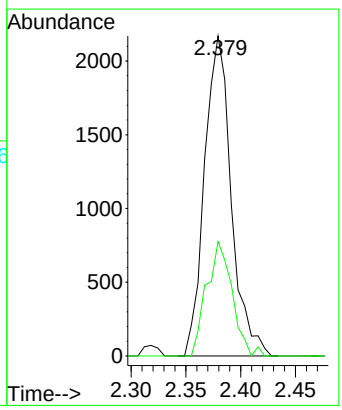


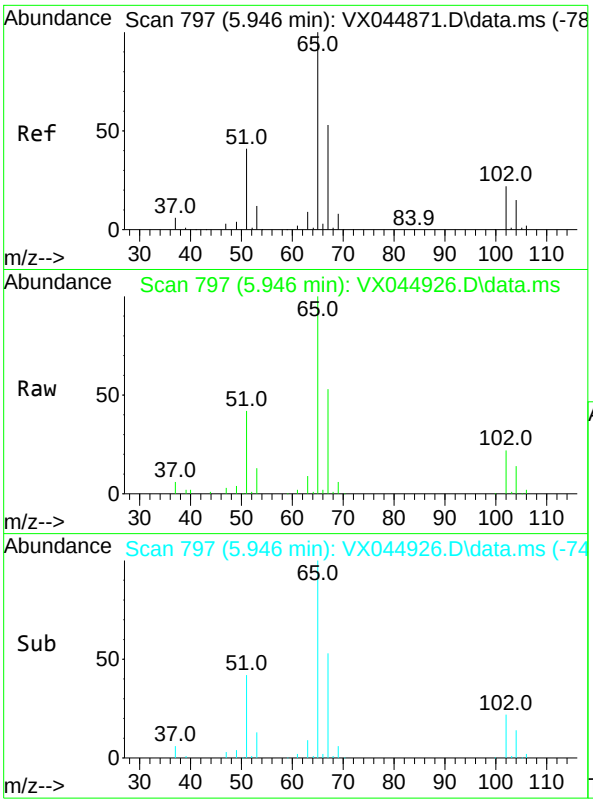


#16
Acetone
Concen: 7.378 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Tgt Ion: 43 Resp: 3681

Ion	Ratio	Lower	Upper
43	100		
58	35.8	26.5	39.7



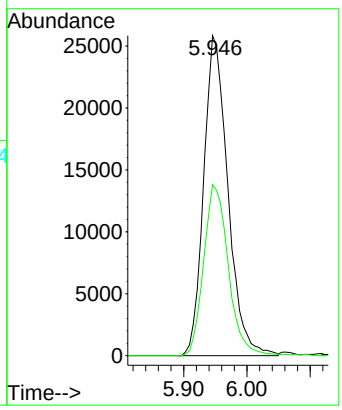


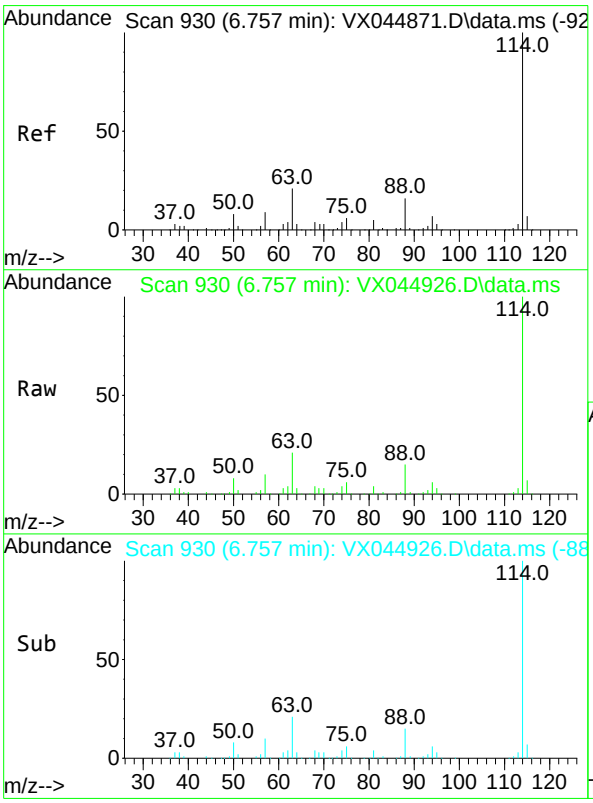
#33
1,2-Dichloroethane-d4
Concen: 55.345 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Tgt Ion: 65 Resp: 68685

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	108.2

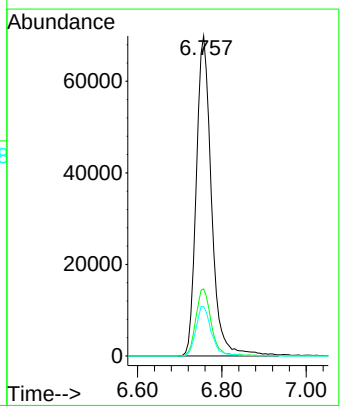


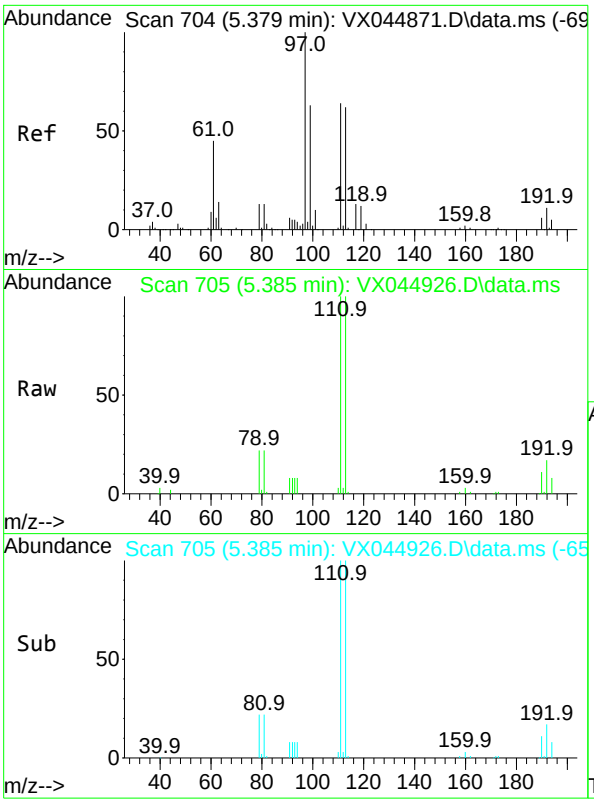


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Tgt Ion:114 Resp: 175612

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.4
88	15.5	0.0	31.4



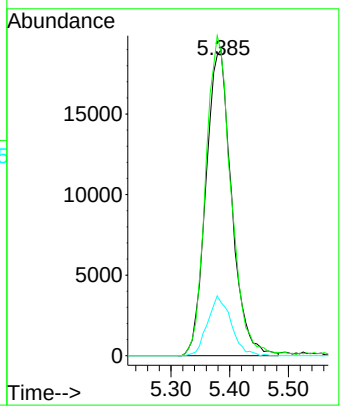


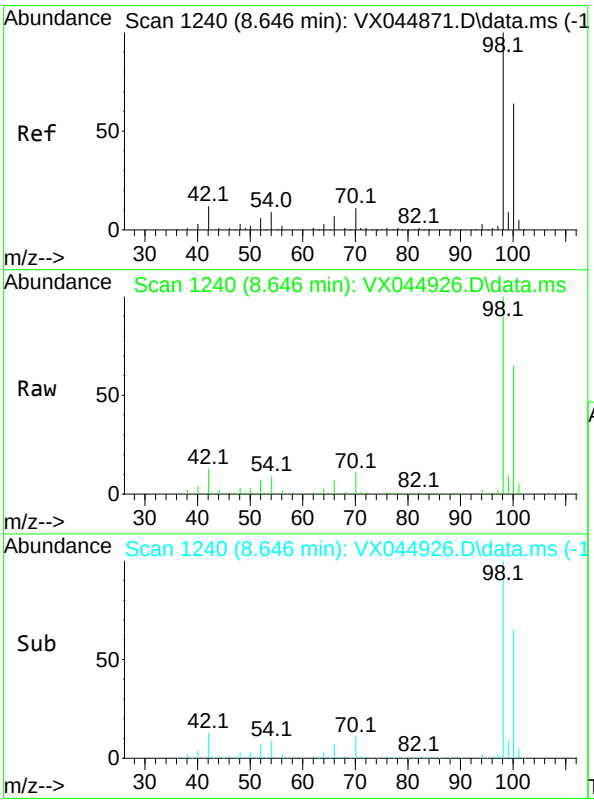
#35
Dibromofluoromethane
Concen: 50.395 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Tgt Ion:113 Resp: 57540

Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.5	125.3
192	17.9	14.4	21.6

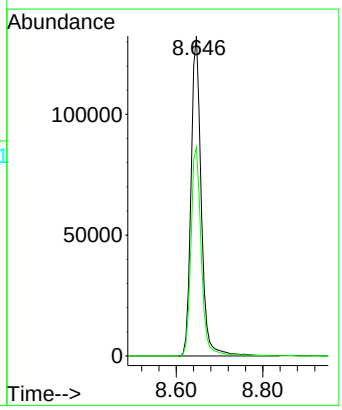


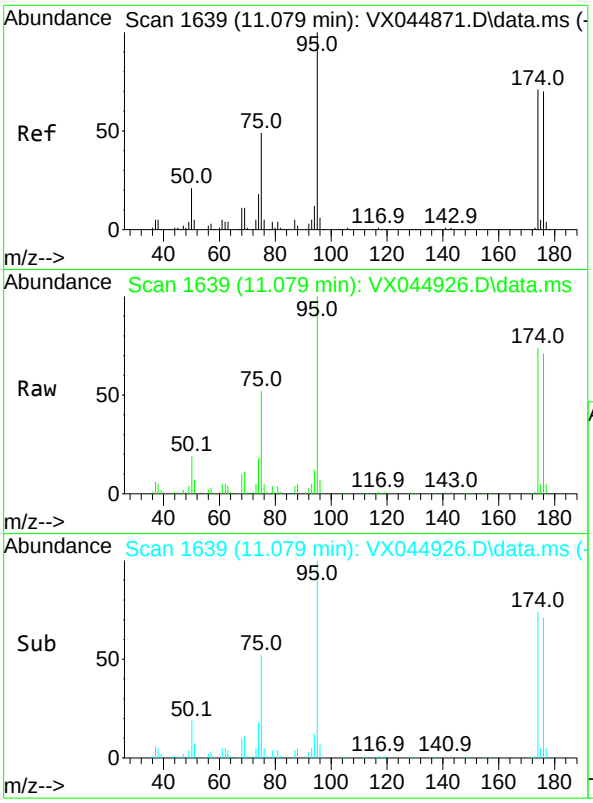


#50
Toluene-d8
Concen: 50.064 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Tgt Ion: 98 Resp: 216152

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.7	79.1



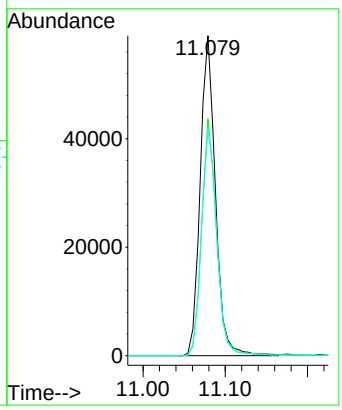


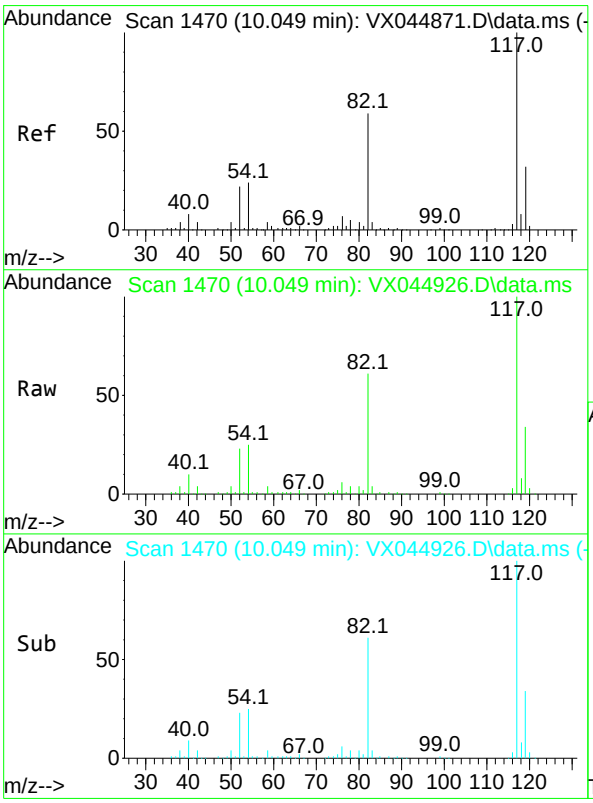
#62
4-Bromofluorobenzene
Concen: 52.280 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Tgt Ion: 95 Resp: 76095

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	142.6
176	71.5	0.0	141.6

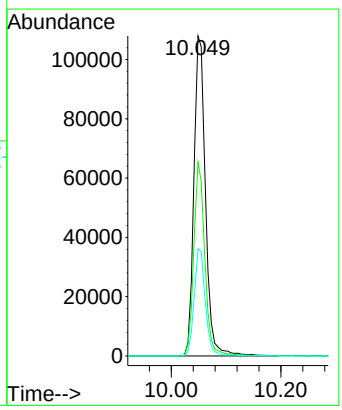


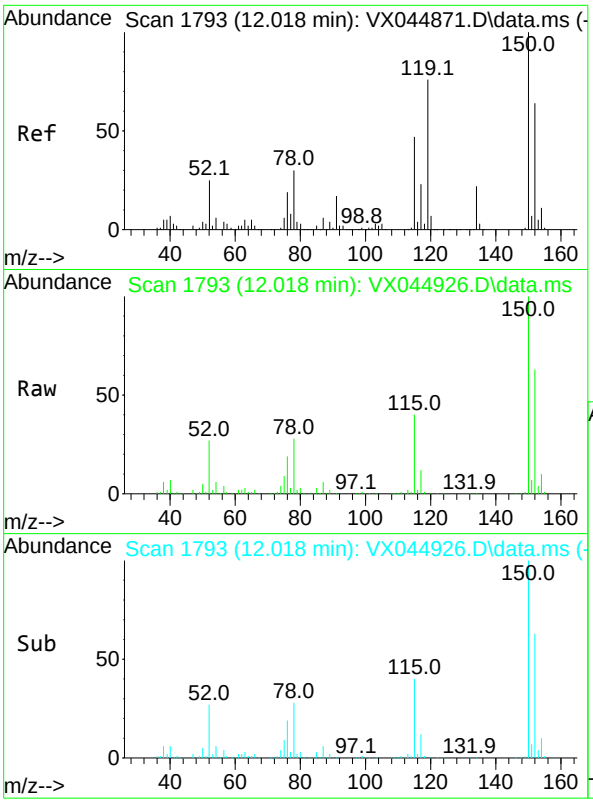


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Tgt Ion:117 Resp: 159224

Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.5	71.3
119	33.6	25.4	38.0



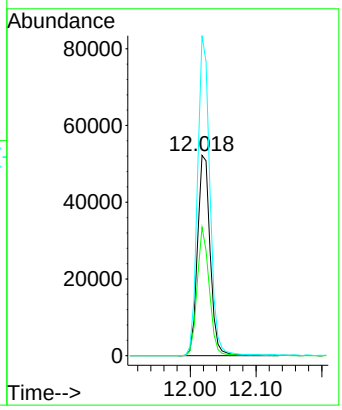


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044926.D
Acq: 12 Feb 2025 12:32

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Tgt Ion:152 Resp: 69850

Ion	Ratio	Lower	Upper
152	100		
115	60.7	43.4	130.1
150	155.9	0.0	350.4



Sample Results: **VX044926.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044926.D
Acq On : 12 Feb 2025 12:32
Operator : JC/MD
Sample : Q1347-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260

Signal : TIC: VX044926.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.562	70	78	79	rBV3	3986	6863	1.18%	0.229%
2	1.623	79	88	94	rVB8	6259	19947	3.43%	0.666%
3	2.379	207	212	217	rBV	3345	6104	1.05%	0.204%
4	5.379	694	704	720	rBV2	64338	192560	33.14%	6.433%
5	5.543	721	731	746	rBV	90055	260205	44.78%	8.693%
6	5.946	789	797	814	rBV	73685	200728	34.54%	6.706%
7	6.757	921	930	942	rBV	162678	403462	69.43%	13.479%
8	8.646	1233	1240	1267	rBV	351557	581113	100.00%	19.415%
9	10.049	1465	1470	1495	rBV	352196	510429	87.84%	17.053%
10	11.079	1634	1639	1652	rBV	286025	370390	63.74%	12.375%
11	12.018	1788	1793	1803	rBV	343070	441355	75.95%	14.745%

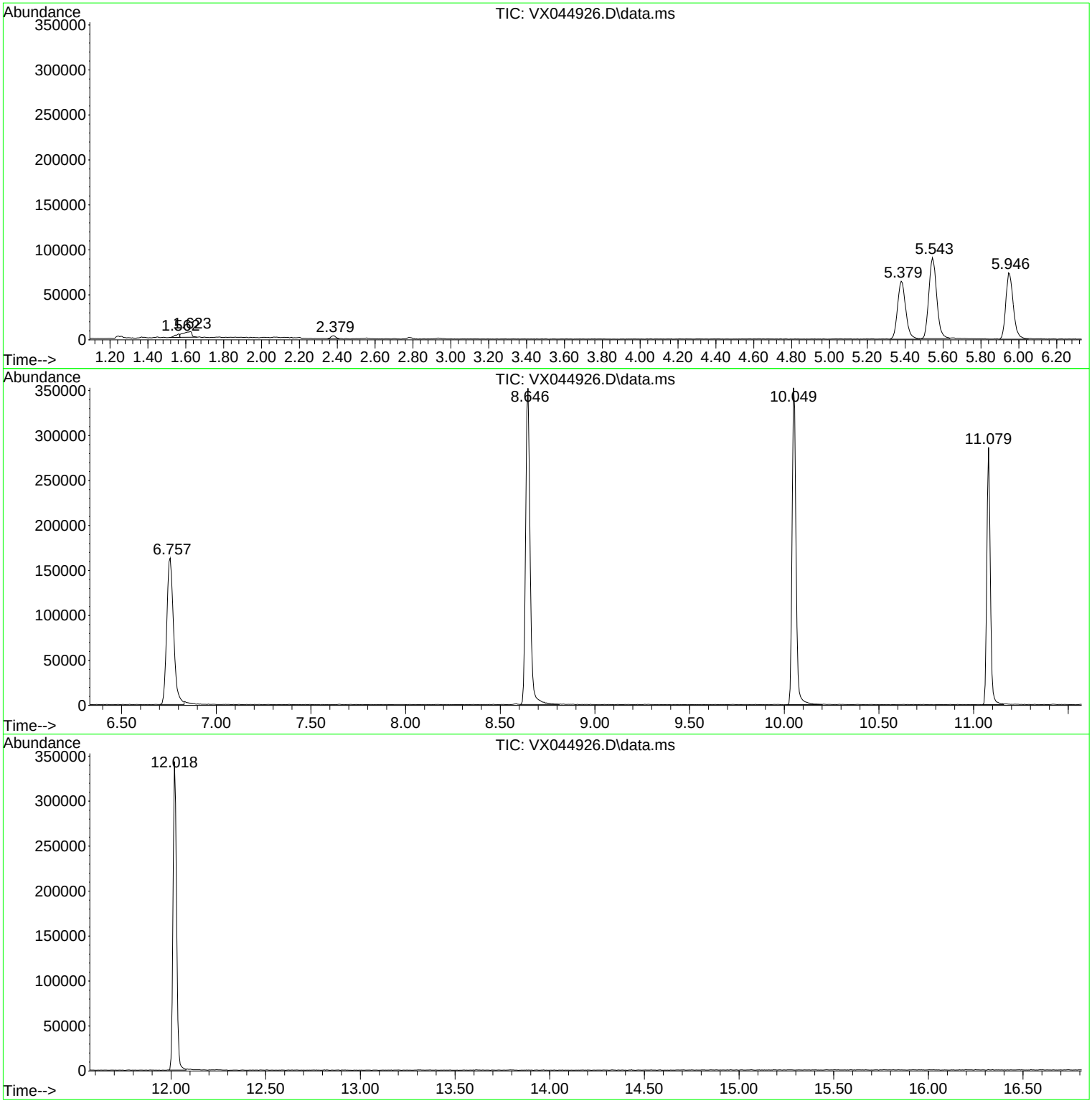
Sum of corrected areas: 2993156

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044926.D
Acq On : 12 Feb 2025 12:32
Operator : JC/MD
Sample : Q1347-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044926.D
Acq On : 12 Feb 2025 12:32
Operator : JC/MD
Sample : Q1347-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044926.D
Acq On : 12 Feb 2025 12:32
Operator : JC/MD
Sample : Q1347-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-EB-20250207

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-TB-20250206	SDG No.:	Q1347
Lab Sample ID:	Q1347-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044927.D	1		02/12/25 12:55	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-TB-20250206	SDG No.:	Q1347
Lab Sample ID:	Q1347-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044927.D	1		02/12/25 12:55	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.4		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	49.7		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	89300	5.544				
540-36-3	1,4-Difluorobenzene	184000	6.757				
3114-55-4	Chlorobenzene-d5	163000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	68300	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-TB-20250206	SDG No.:	Q1347
Lab Sample ID:	Q1347-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044927.D	1		02/12/25 12:55	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044927.D
Acq On : 12 Feb 2025 12:55
Operator : JC/MD
Sample : Q1347-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Quant Time: Feb 13 00:50:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

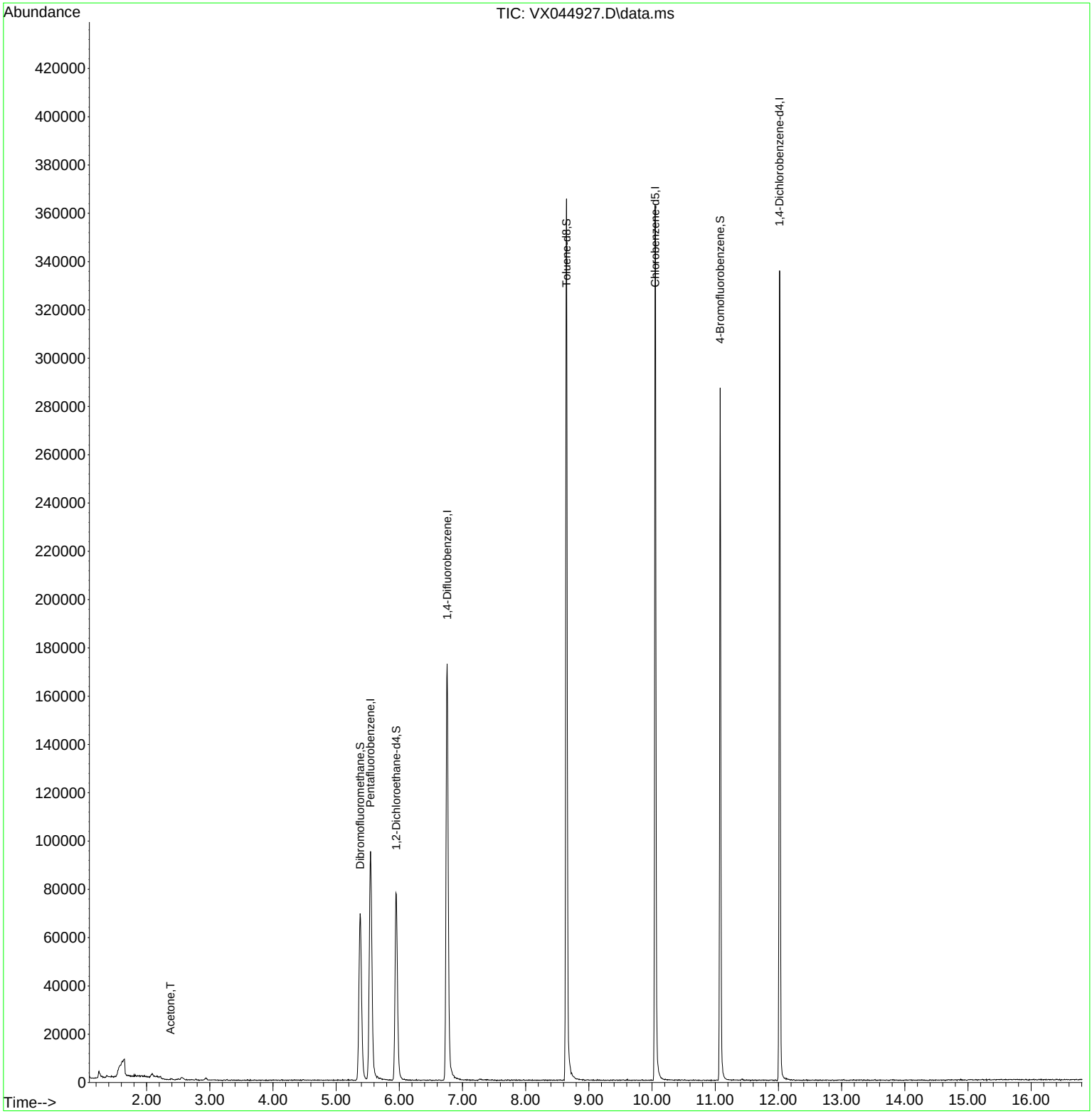
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	89251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	183953	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	163403	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68278	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72351	55.379	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.760%			
35) Dibromofluoromethane	5.379	113	62701	52.426	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.860%			
50) Toluene-d8	8.647	98	224813	49.709	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.420%			
62) 4-Bromofluorobenzene	11.079	95	77420	50.779	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.560%			
Target Compounds						Qvalue
16) Acetone	2.380	43	532	1.013	ug/l #	73

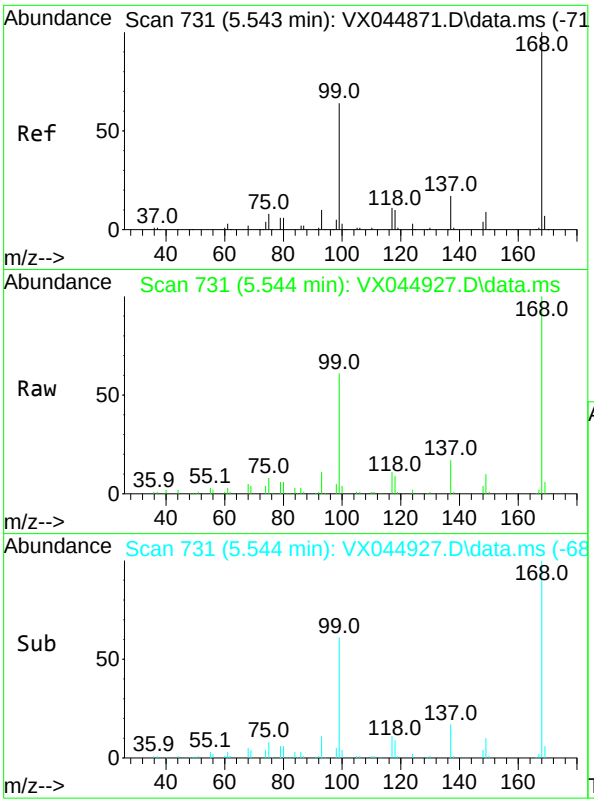
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044927.D
Acq On : 12 Feb 2025 12:55
Operator : JC/MD
Sample : Q1347-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Quant Time: Feb 13 00:50:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



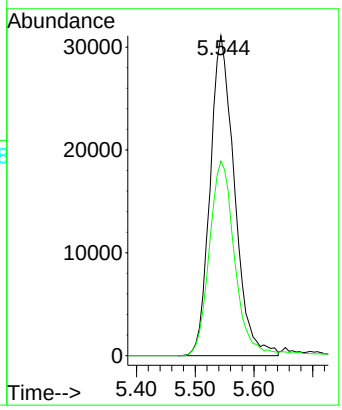


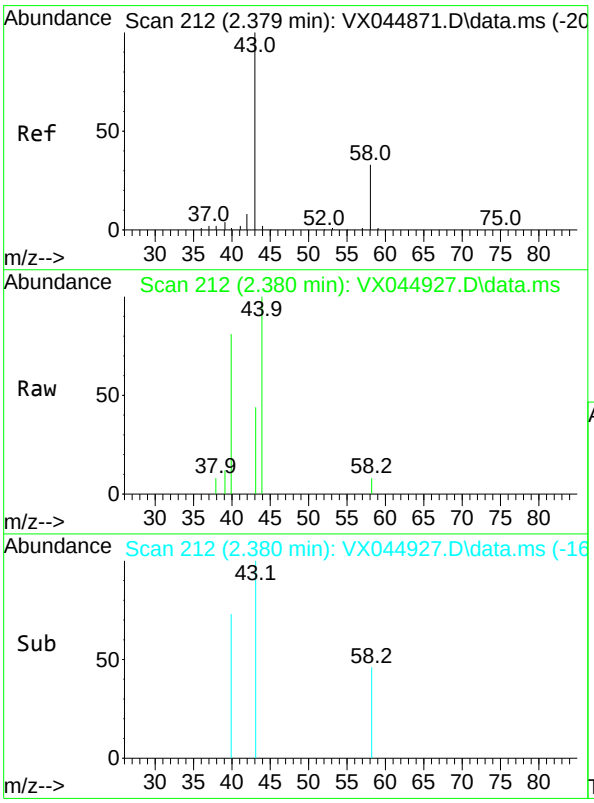
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Tgt Ion:168 Resp: 89251

Ion	Ratio	Lower	Upper
168	100		
99	60.8	51.2	76.8

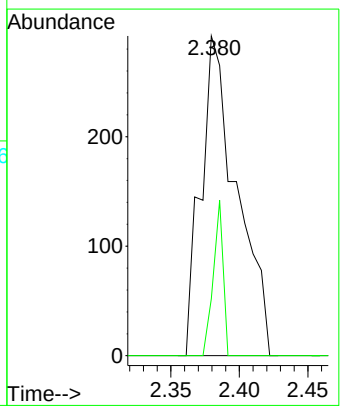


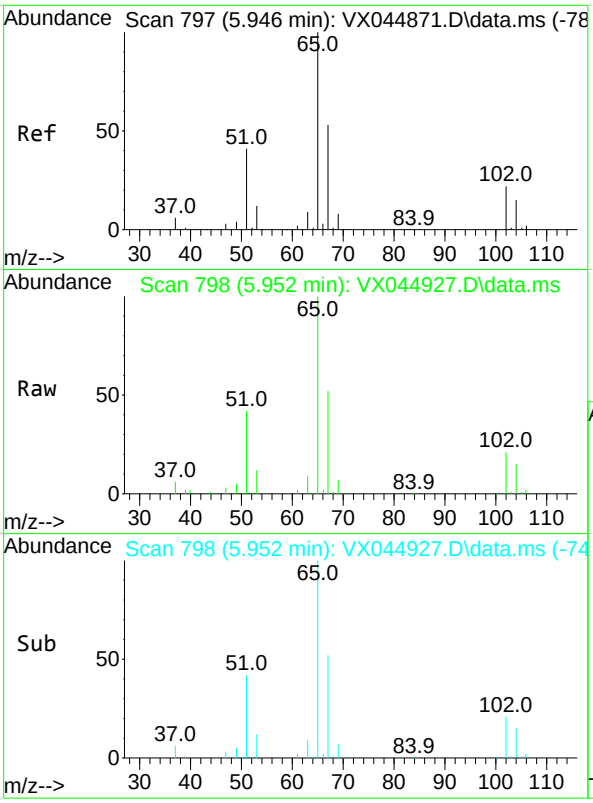


#16
Acetone
Concen: 1.013 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Tgt Ion: 43 Resp: 532

Ion	Ratio	Lower	Upper
43	100		
58	17.8	26.5	39.7#



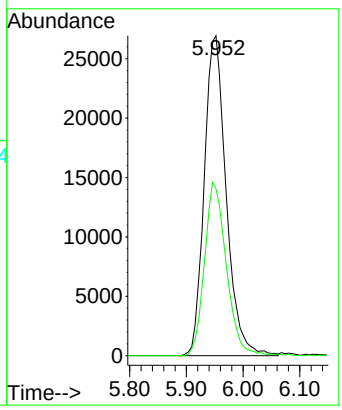


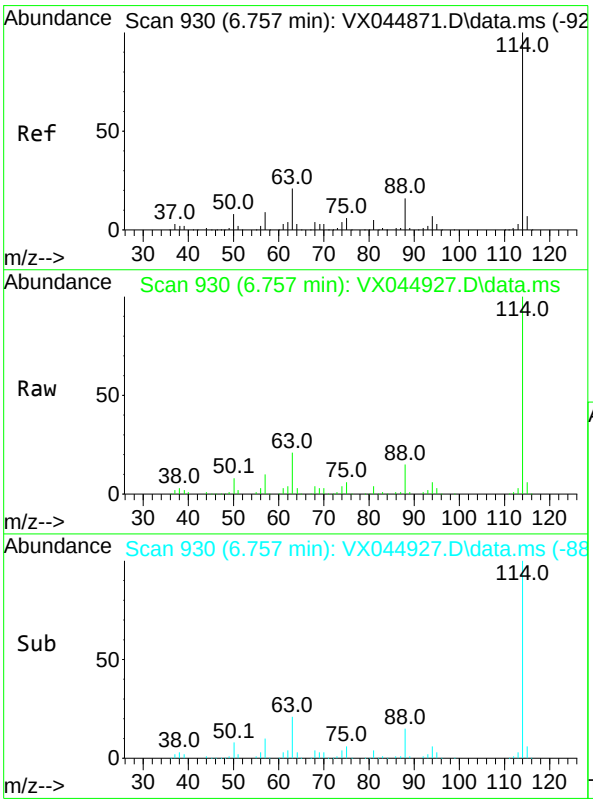
#33
1,2-Dichloroethane-d4
Concen: 55.379 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Tgt Ion: 65 Resp: 72351

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	108.2

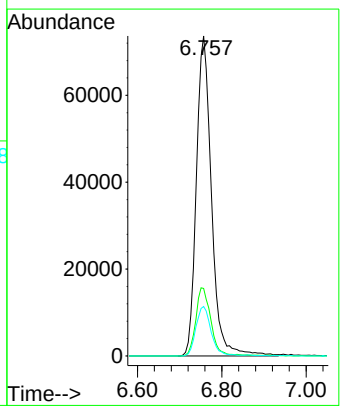


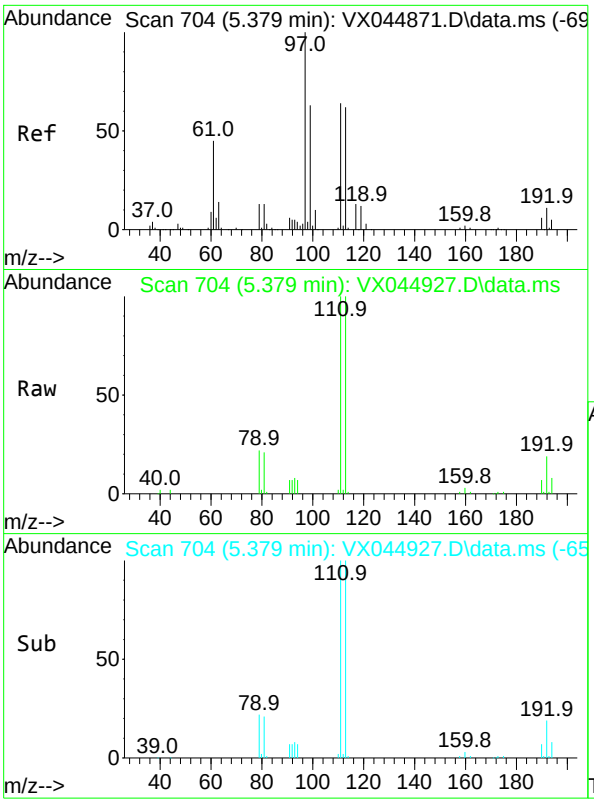


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Tgt Ion:114 Resp: 183953

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	42.4
88	15.4	0.0	31.4



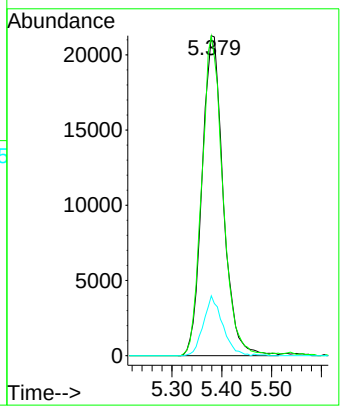


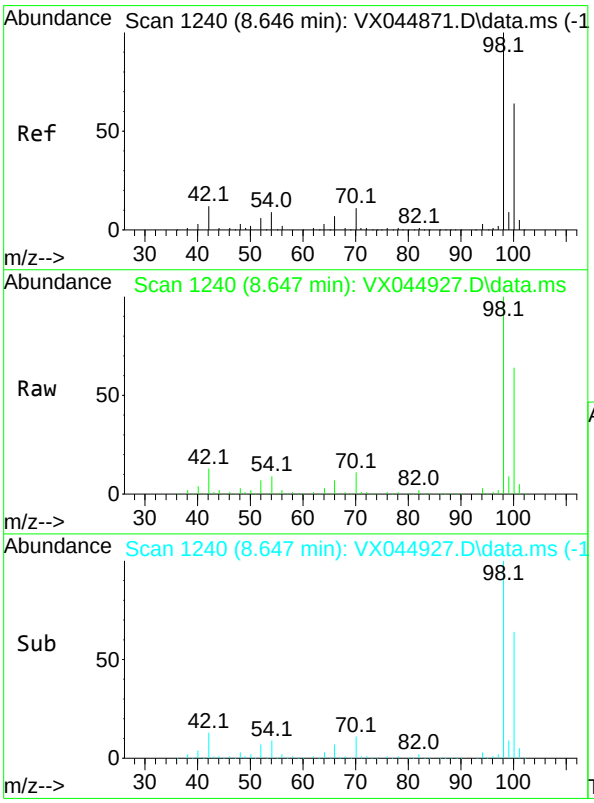
#35
Dibromofluoromethane
Concen: 52.426 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Tgt Ion:113 Resp: 62701

Ion	Ratio	Lower	Upper
113	100		
111	99.4	83.5	125.3
192	16.9	14.4	21.6

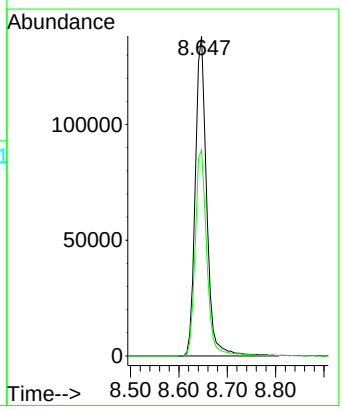


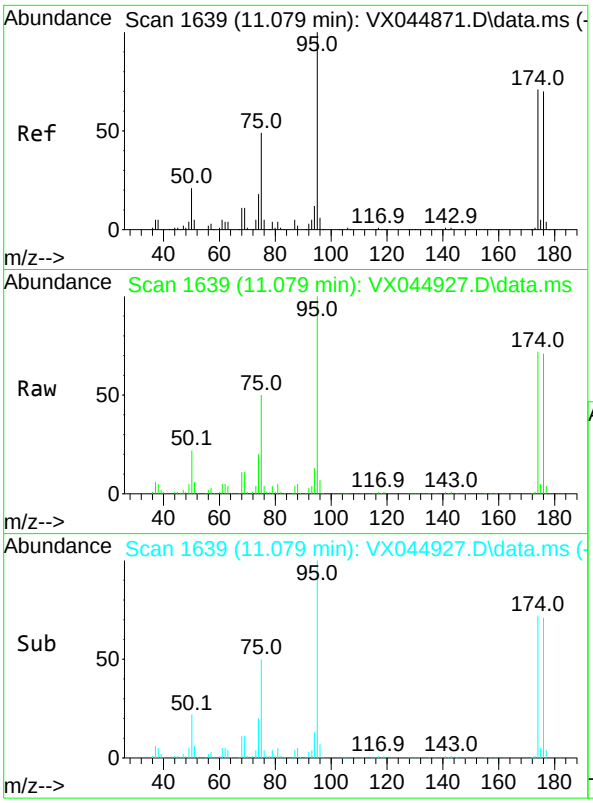


#50
Toluene-d8
Concen: 49.709 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Tgt Ion: 98 Resp: 224813

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.7	79.1



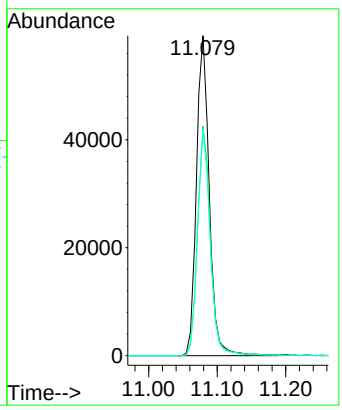


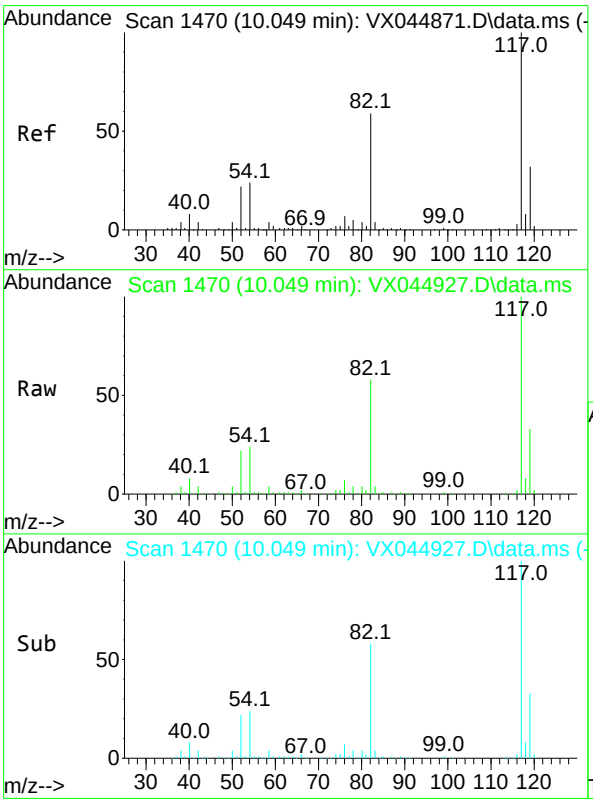
#62
4-Bromofluorobenzene
Concen: 50.779 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Tgt Ion: 95 Resp: 77420

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	142.6
176	69.5	0.0	141.6

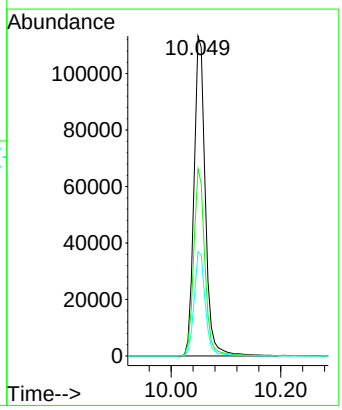


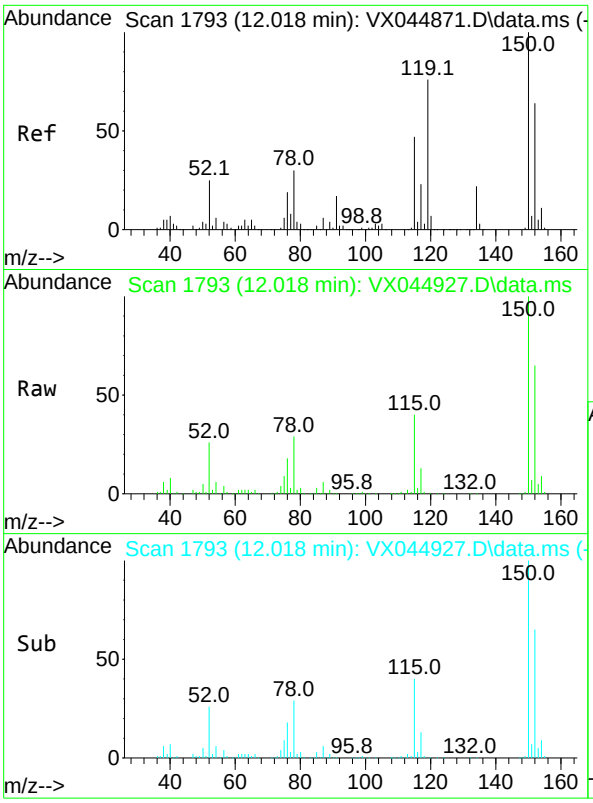


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Tgt Ion:117 Resp: 163403

Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.5	71.3
119	32.6	25.4	38.0



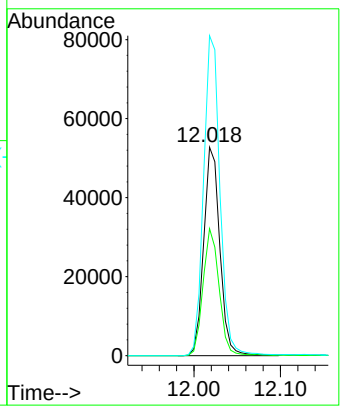


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044927.D
Acq: 12 Feb 2025 12:55

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Tgt Ion:152 Resp: 68278

Ion	Ratio	Lower	Upper
152	100		
115	61.1	43.4	130.1
150	156.0	0.0	350.4



Sample Results: **VX044927.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044927.D
Acq On : 12 Feb 2025 12:55
Operator : JC/MD
Sample : Q1347-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260

Signal : TIC: VX044927.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.587	68	82	83	rBV5	4871	14996	2.50%	0.491%
2	5.379	692	704	720	rBV	69153	203253	33.88%	6.651%
3	5.544	721	731	747	rVV2	94168	272294	45.39%	8.910%
4	5.946	787	797	814	rBV	77651	210911	35.16%	6.901%
5	6.757	920	930	949	rBV	172367	428717	71.47%	14.028%
6	8.647	1234	1240	1252	rBV	365101	599851	100.00%	19.627%
7	10.049	1465	1470	1495	rBV	362529	522688	87.14%	17.103%
8	11.079	1634	1639	1657	rBV	286746	371734	61.97%	12.163%
9	12.018	1788	1793	1806	rBV	335290	431752	71.98%	14.127%

Sum of corrected areas: 3056196

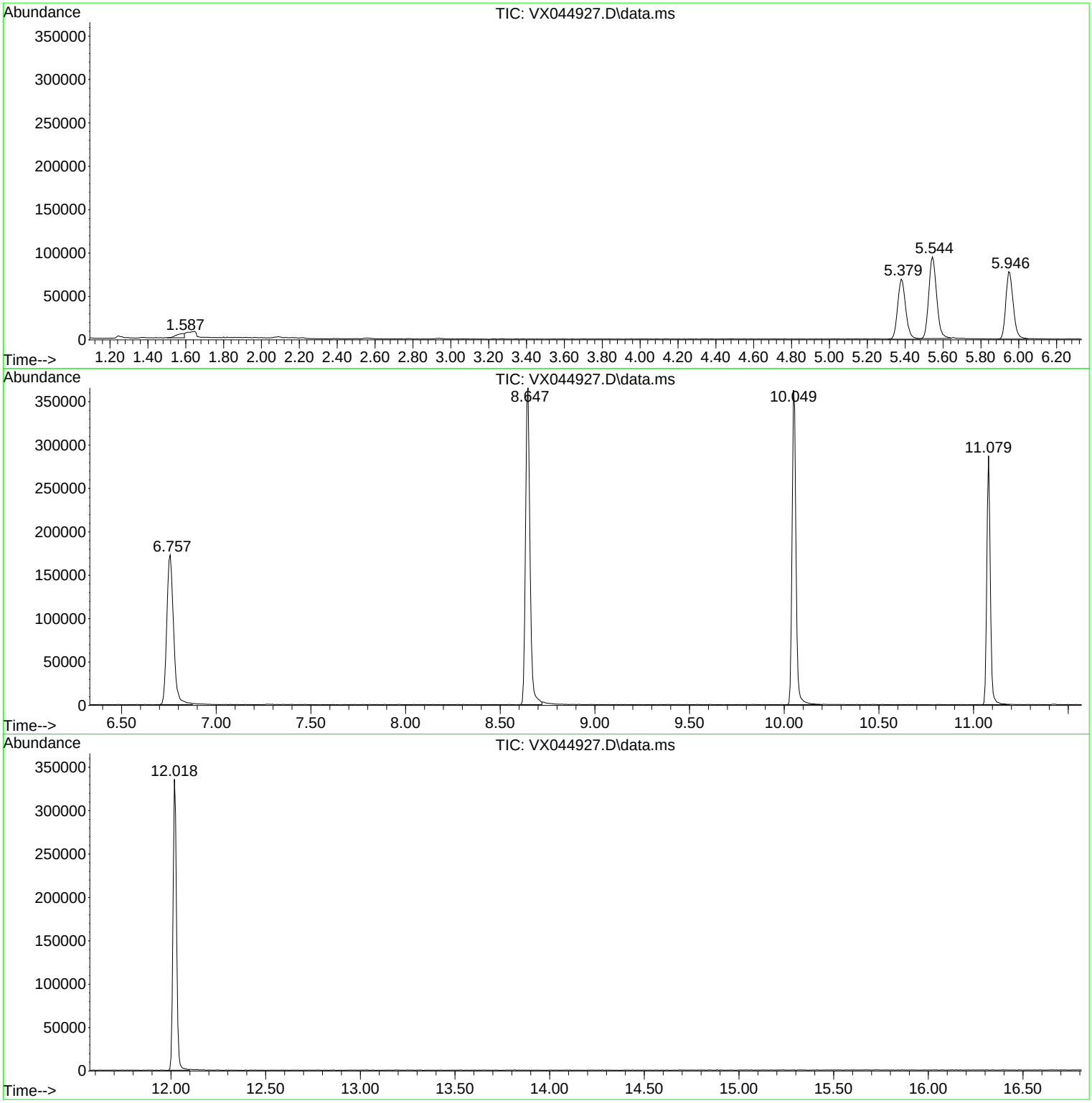
Sample Results: **VX044927.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044927.D
Acq On : 12 Feb 2025 12:55
Operator : JC/MD
Sample : Q1347-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044927.D
Acq On : 12 Feb 2025 12:55
Operator : JC/MD
Sample : Q1347-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044927.D
Acq On : 12 Feb 2025 12:55
Operator : JC/MD
Sample : Q1347-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-TB-20250206

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-710-712	SDG No.:	Q1347
Lab Sample ID:	Q1347-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044925.D	1		02/12/25 12:09	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	8.10		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-710-712	SDG No.:	Q1347
Lab Sample ID:	Q1347-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044925.D	1		02/12/25 12:09	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.8		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	49.9		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	84700	5.544				
540-36-3	1,4-Difluorobenzene	172000	6.757				
3114-55-4	Chlorobenzene-d5	152000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	62900	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-710-712	SDG No.:	Q1347
Lab Sample ID:	Q1347-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044925.D	1		02/12/25 12:09	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044925.D
Acq On : 12 Feb 2025 12:09
Operator : JC/MD
Sample : Q1347-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Quant Time: Feb 13 00:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

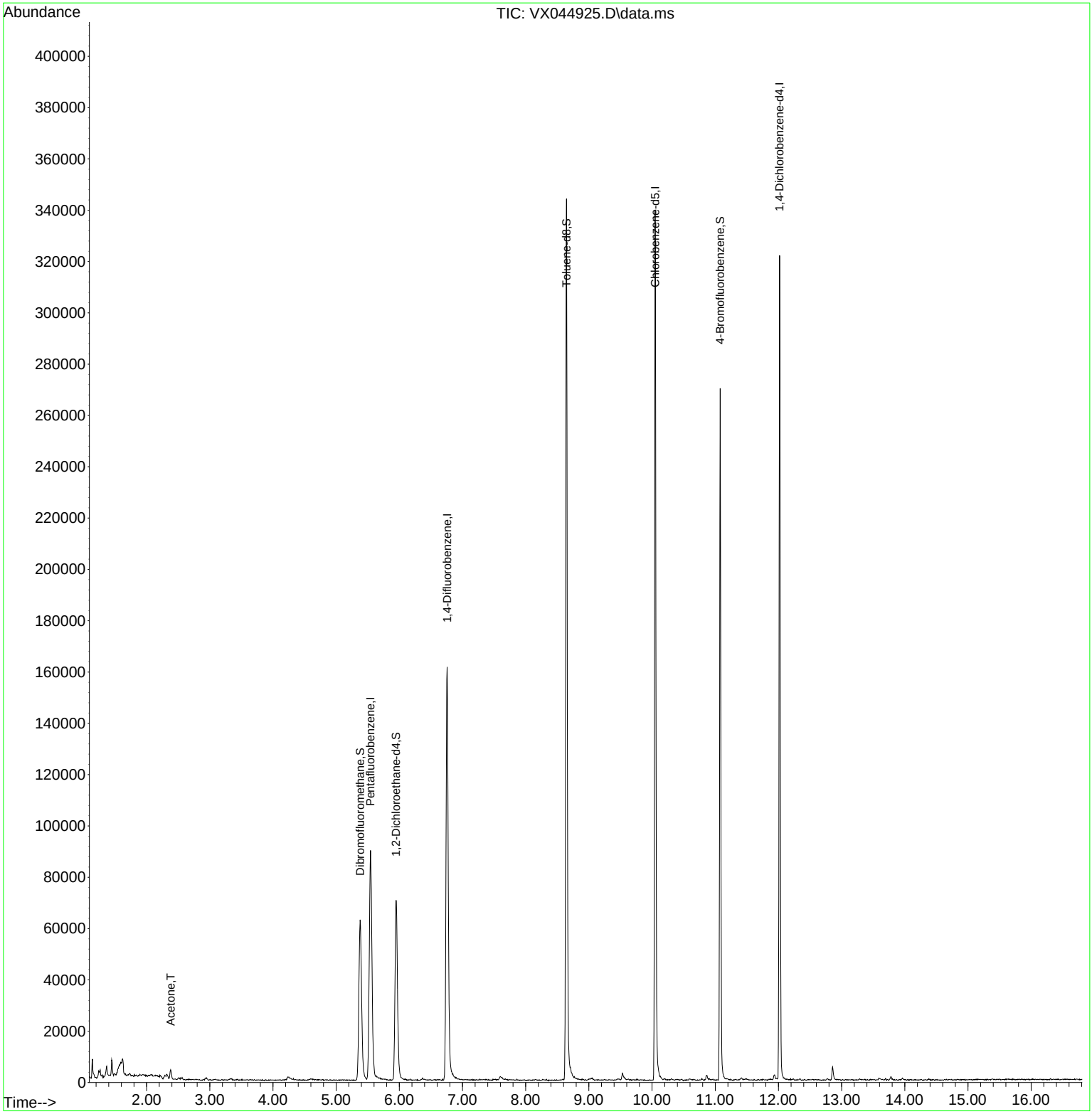
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	84715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	171791	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	152421	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	62921	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	66692	53.781	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.560%			
35) Dibromofluoromethane	5.379	113	56358	50.458	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.920%			
50) Toluene-d8	8.647	98	210691	49.885	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.760%			
62) 4-Bromofluorobenzene	11.079	95	70603	49.586	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.180%			
Target Compounds						Qvalue
16) Acetone	2.379	43	4026	8.076	ug/l	100

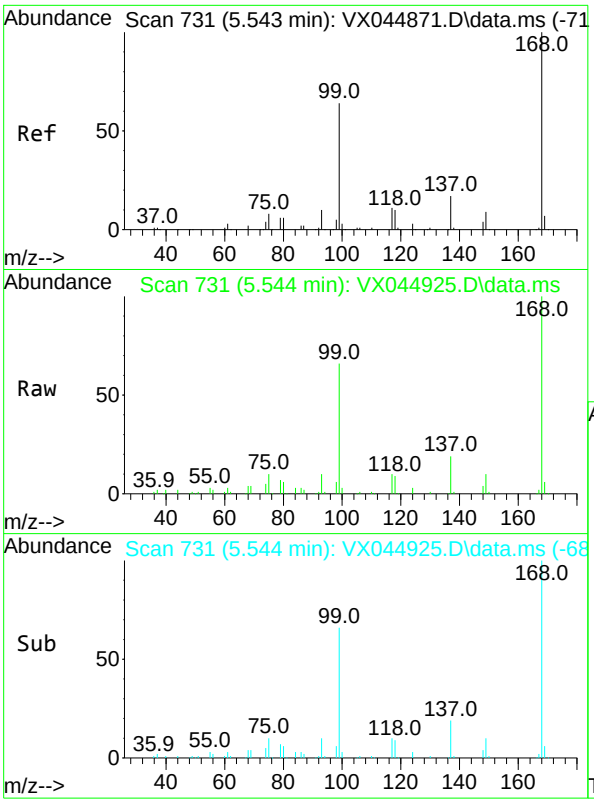
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044925.D
Acq On : 12 Feb 2025 12:09
Operator : JC/MD
Sample : Q1347-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Quant Time: Feb 13 00:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



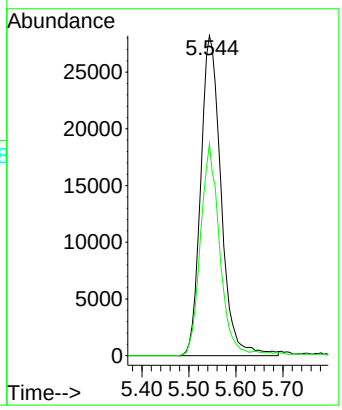


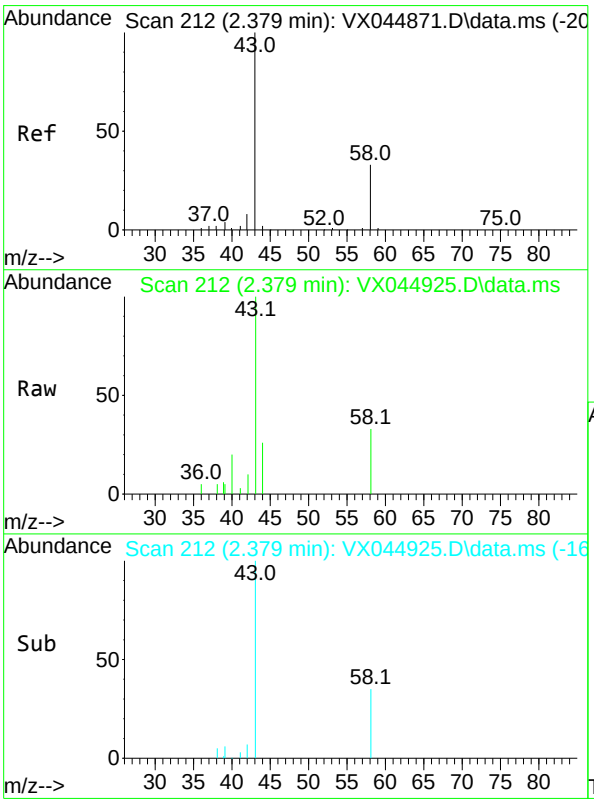
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Tgt Ion:168 Resp: 84715

Ion	Ratio	Lower	Upper
168	100		
99	66.2	51.2	76.8

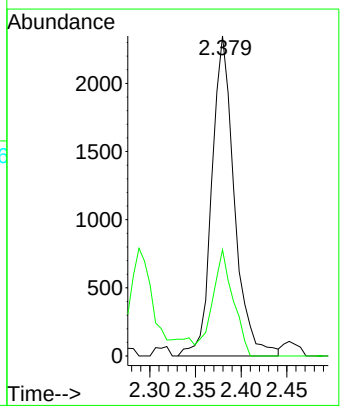


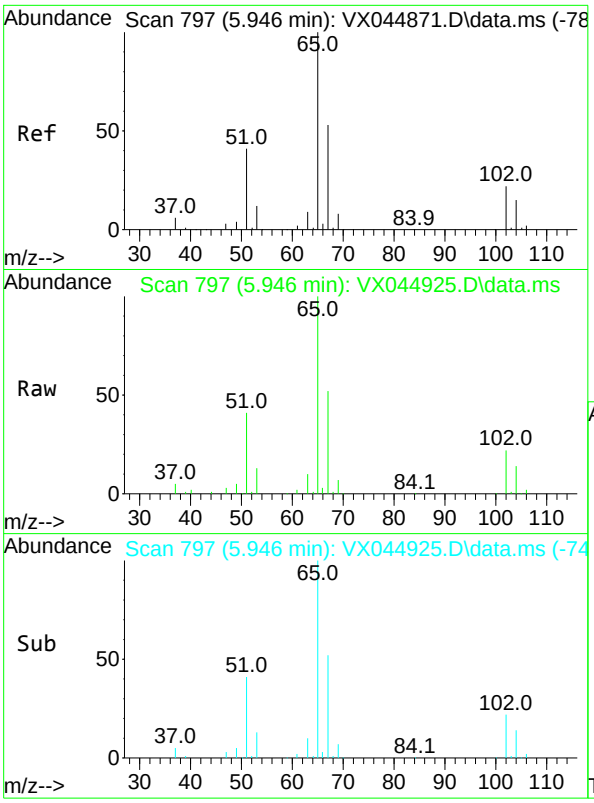


#16
Acetone
Concen: 8.076 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Tgt Ion: 43 Resp: 4026

Ion	Ratio	Lower	Upper
43	100		
58	33.2	26.5	39.7



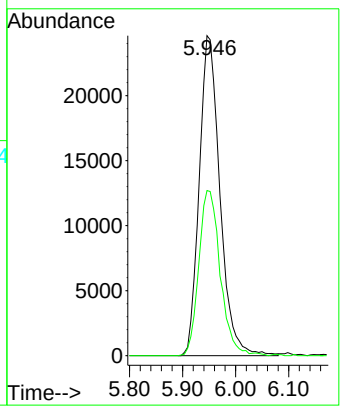


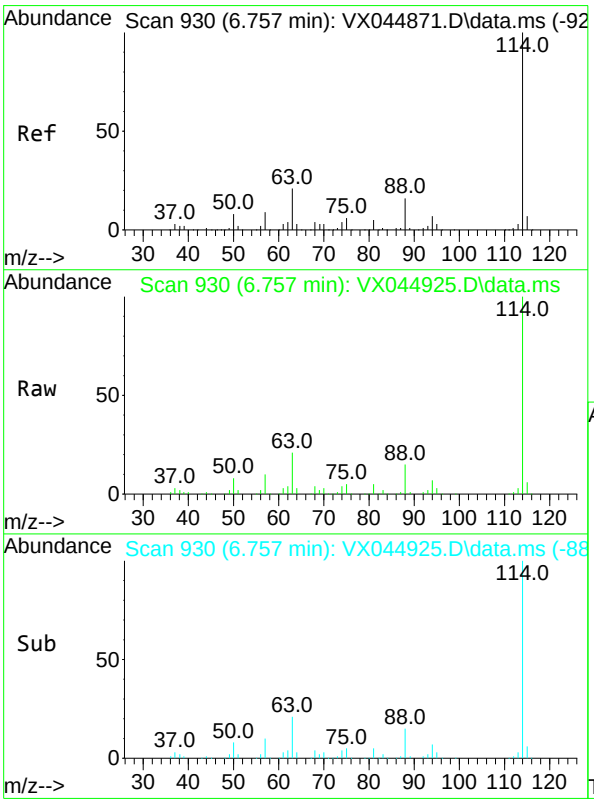
#33
1,2-Dichloroethane-d4
Concen: 53.781 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Tgt Ion: 65 Resp: 66692

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	108.2

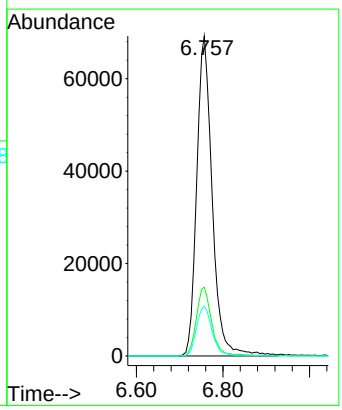


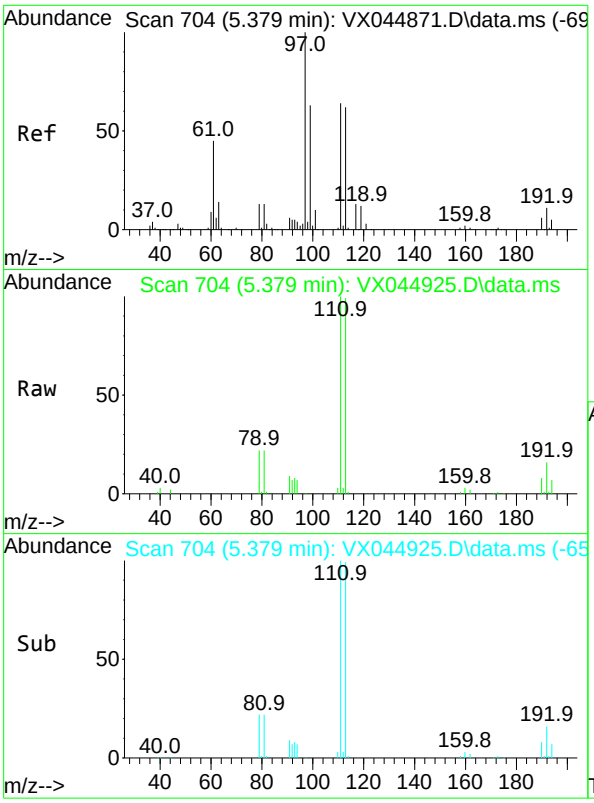


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Tgt Ion:114 Resp: 171791

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.4
88	15.4	0.0	31.4



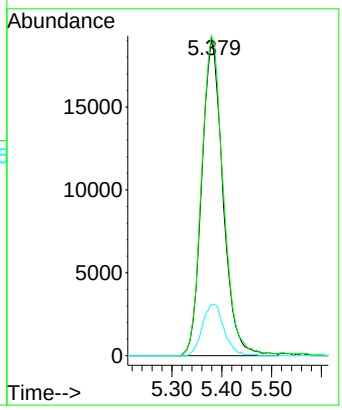


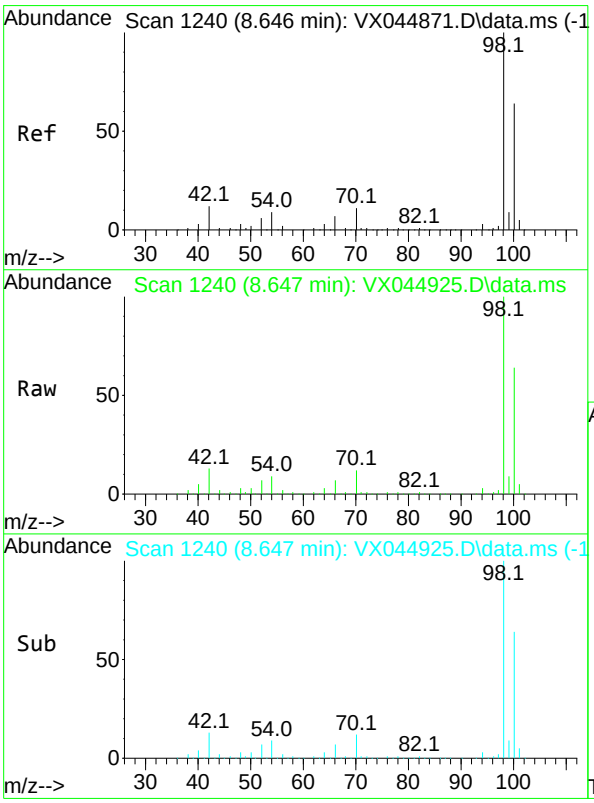
#35
Dibromofluoromethane
Concen: 50.458 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Tgt Ion:113 Resp: 56358

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.5	125.3
192	16.6	14.4	21.6

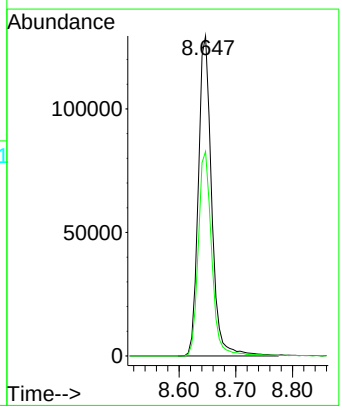


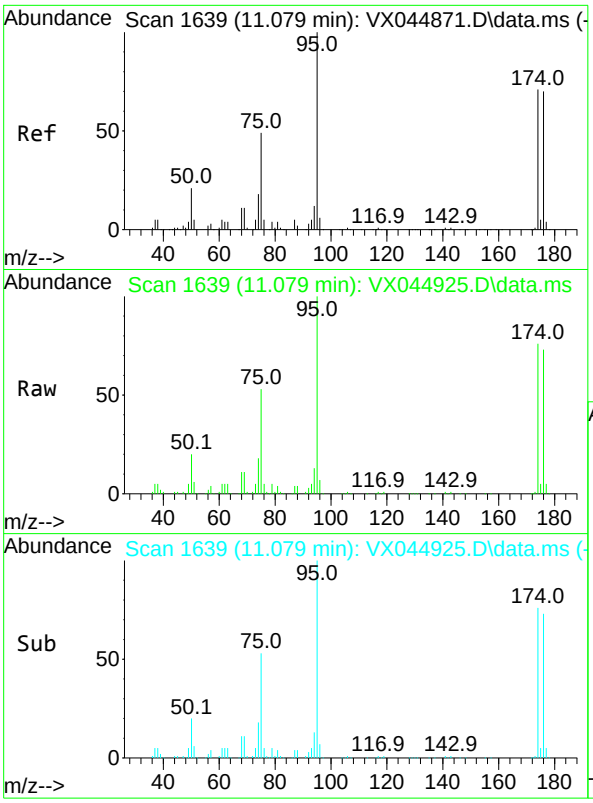


#50
Toluene-d8
Concen: 49.885 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Tgt Ion: 98 Resp: 210691

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.7	79.1



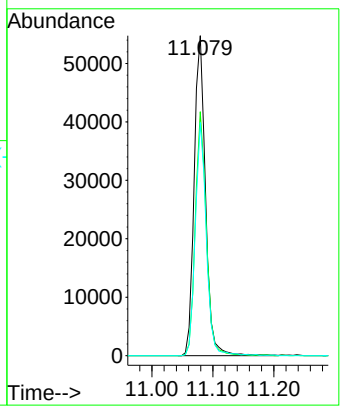


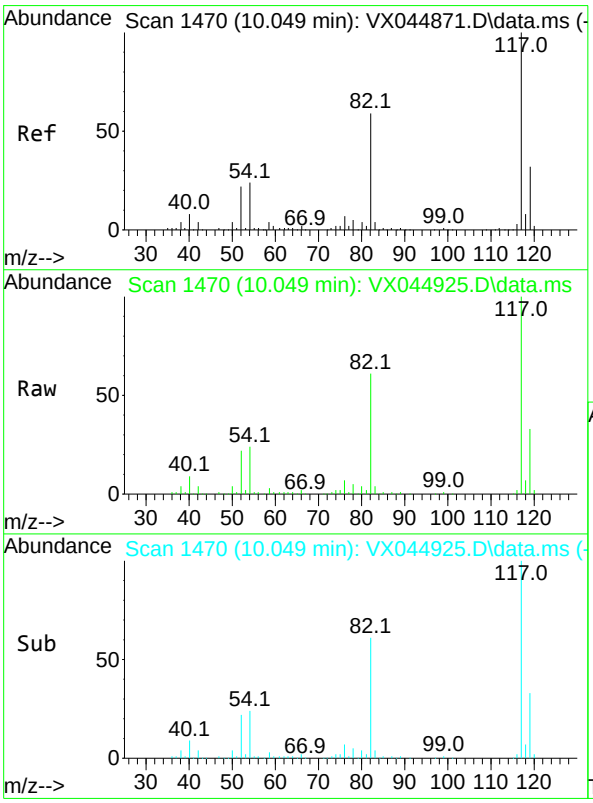
#62
4-Bromofluorobenzene
Concen: 49.586 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Tgt Ion: 95 Resp: 70603

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	142.6
176	70.7	0.0	141.6

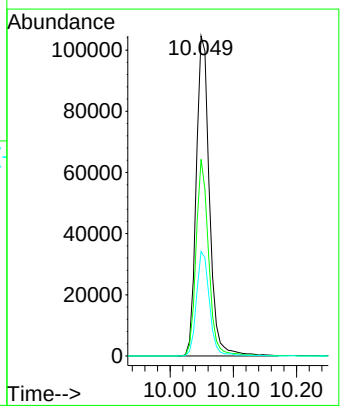


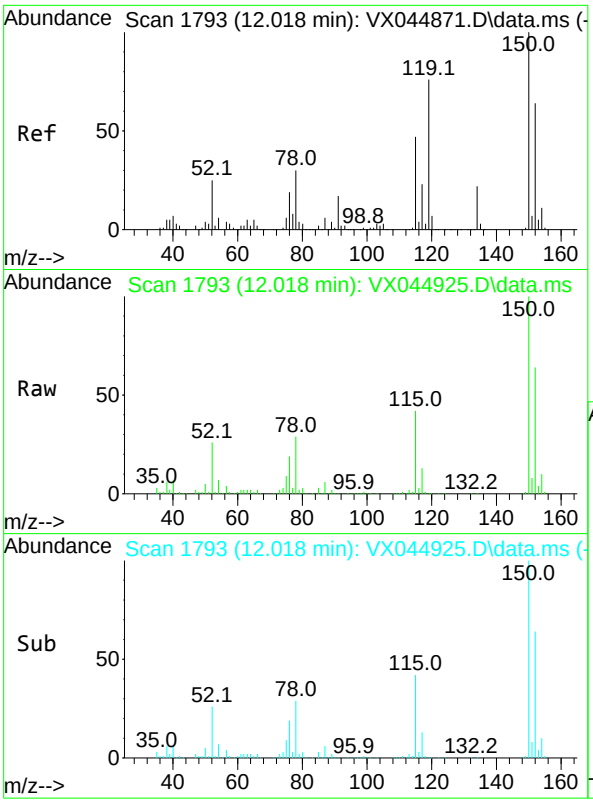


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Tgt Ion:117 Resp: 152421

Ion	Ratio	Lower	Upper
117	100		
82	61.5	47.5	71.3
119	32.6	25.4	38.0



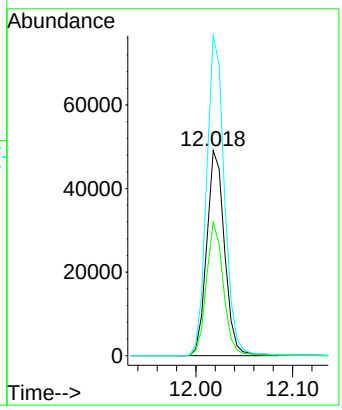


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044925.D
Acq: 12 Feb 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Tgt Ion:152 Resp: 62921

Ion	Ratio	Lower	Upper
152	100		
115	62.3	43.4	130.1
150	156.5	0.0	350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044925.D
Acq On : 12 Feb 2025 12:09
Operator : JC/MD
Sample : Q1347-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260

Signal : TIC: VX044925.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	16	rBV2	7468	9177	1.62%	0.318%
2	1.367	38	46	51	rBV4	4302	8057	1.43%	0.279%
3	1.447	56	59	64	rVB	6274	7353	1.30%	0.255%
4	1.569	71	79	80	rBV5	3910	8009	1.42%	0.278%
5	1.617	85	87	91	rVB5	5650	7649	1.35%	0.265%
6	2.379	207	212	220	rVB	3737	6382	1.13%	0.221%
7	5.379	692	704	721	rBV	62578	186795	33.05%	6.475%
8	5.544	721	731	744	rBV	89224	257260	45.51%	8.917%
9	5.946	786	797	817	rBV	70083	193662	34.26%	6.713%
10	6.757	921	930	944	rBV	161022	398107	70.43%	13.799%
11	8.647	1233	1240	1259	rBV	343481	565243	100.00%	19.592%
12	10.049	1465	1470	1482	rBV	339185	482862	85.43%	16.736%
13	11.079	1634	1639	1653	rBV	269679	342794	60.65%	11.882%
14	12.018	1788	1793	1808	rVB	321138	402845	71.27%	13.963%
15	12.859	1925	1931	1938	rBV3	5253	8892	1.57%	0.308%

Sum of corrected areas: 2885087

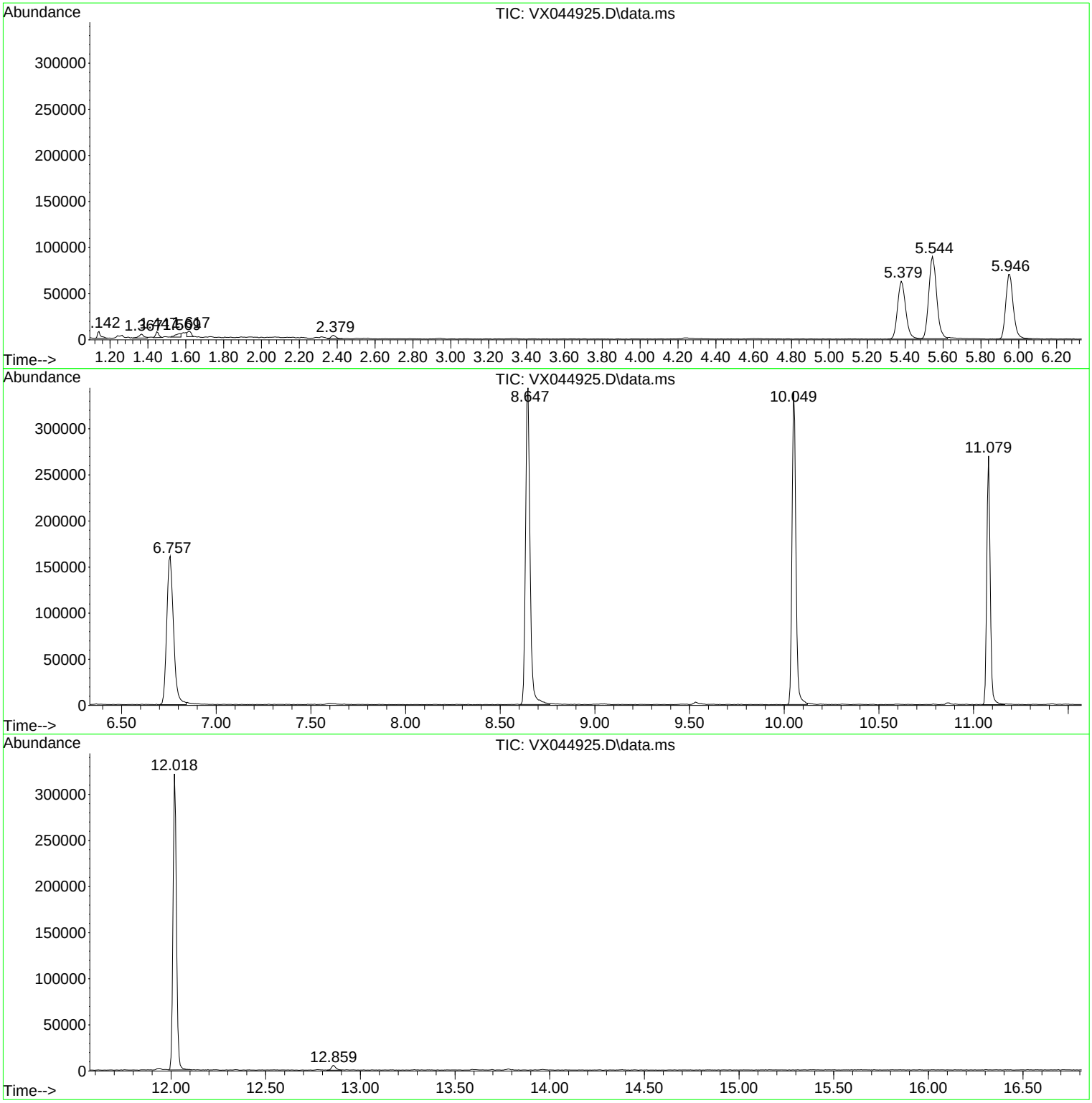
Sample Results: **VX044925.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044925.D
Acq On : 12 Feb 2025 12:09
Operator : JC/MD
Sample : Q1347-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044925.D
Acq On : 12 Feb 2025 12:09
Operator : JC/MD
Sample : Q1347-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044925.D
Acq On : 12 Feb 2025 12:09
Operator : JC/MD
Sample : Q1347-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-710-712

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-640-642	SDG No.:	Q1347
Lab Sample ID:	Q1347-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044928.D	1		02/12/25 13:17	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	10.9		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-640-642	SDG No.:	Q1347
Lab Sample ID:	Q1347-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044928.D	1		02/12/25 13:17	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.4		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.0		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	87900	5.549				
540-36-3	1,4-Difluorobenzene	180000	6.756				
3114-55-4	Chlorobenzene-d5	165000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	70300	12.024				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-640-642	SDG No.:	Q1347
Lab Sample ID:	Q1347-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044928.D	1		02/12/25 13:17	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044928.D
Acq On : 12 Feb 2025 13:17
Operator : JC/MD
Sample : Q1347-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Quant Time: Feb 13 00:50:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

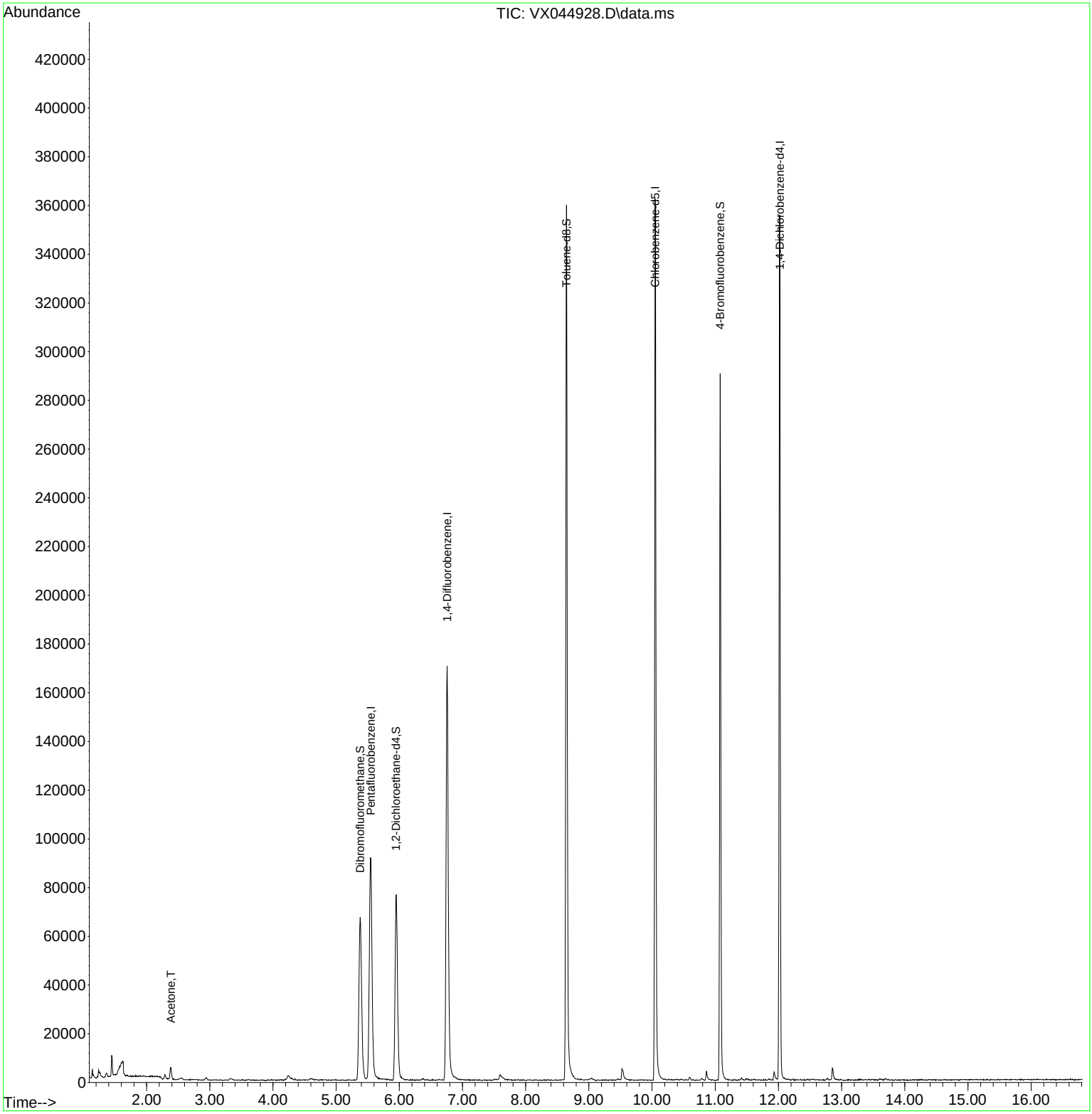
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.549	168	87862	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.756	114	179992	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	164982	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	70282	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	71223	55.377	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.760%			
35) Dibromofluoromethane	5.379	113	60220	51.459	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.920%			
50) Toluene-d8	8.646	98	221052	49.953	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.900%			
62) 4-Bromofluorobenzene	11.079	95	77408	51.888	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.780%			
Target Compounds						Qvalue
16) Acetone	2.385	43	5620	10.870	ug/l #	85

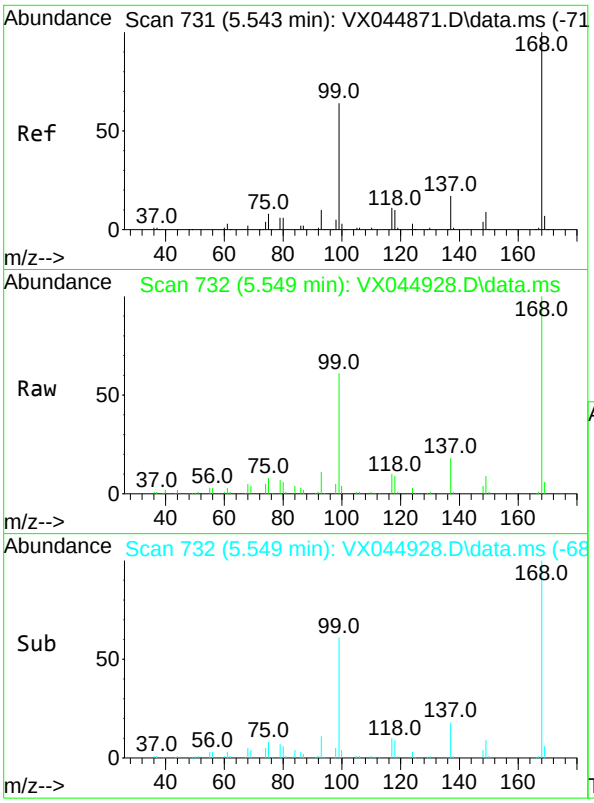
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044928.D
Acq On : 12 Feb 2025 13:17
Operator : JC/MD
Sample : Q1347-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Quant Time: Feb 13 00:50:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



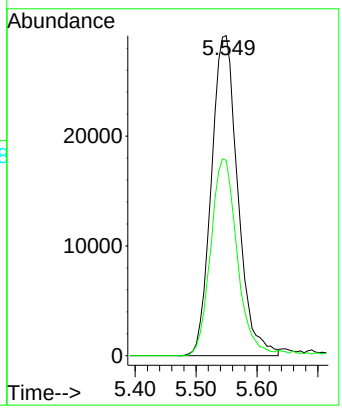


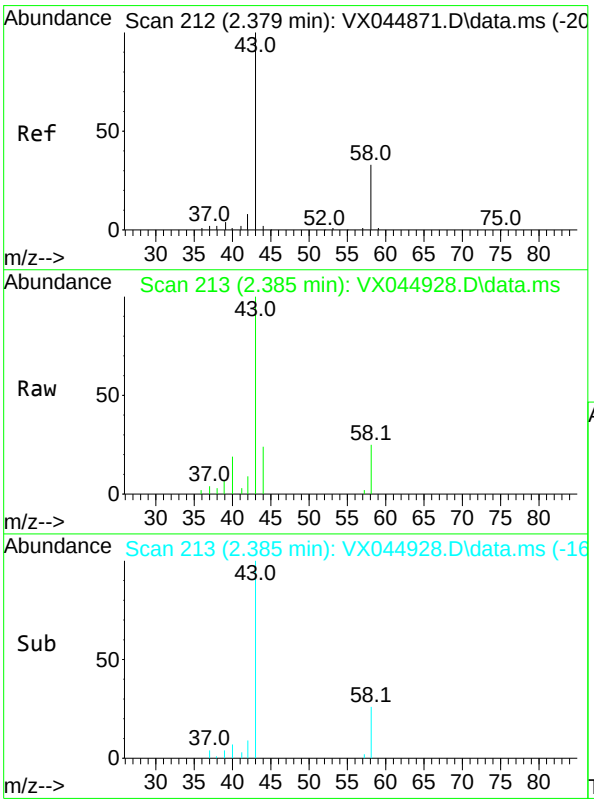
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Tgt Ion:168 Resp: 87862

Ion	Ratio	Lower	Upper
168	100		
99	61.0	51.2	76.8

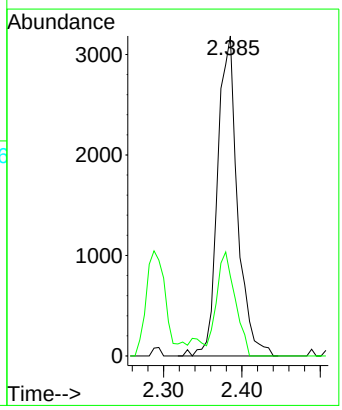


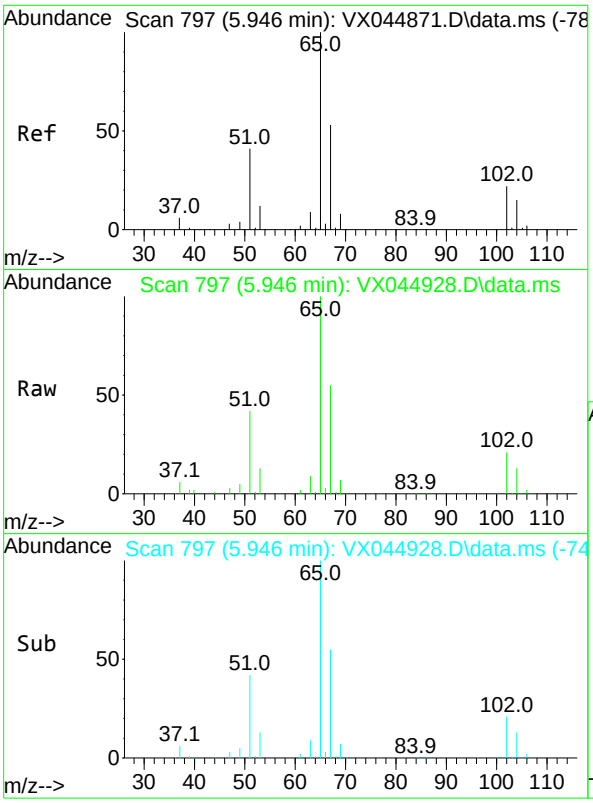


#16
Acetone
Concen: 10.870 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Tgt Ion: 43 Resp: 5620

Ion	Ratio	Lower	Upper
43	100		
58	24.9	26.5	39.7#



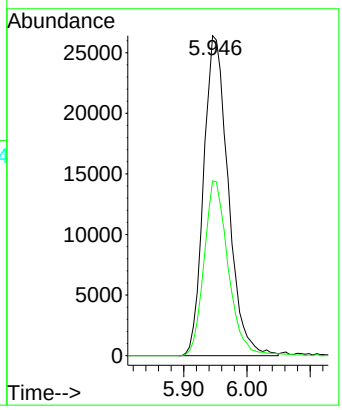


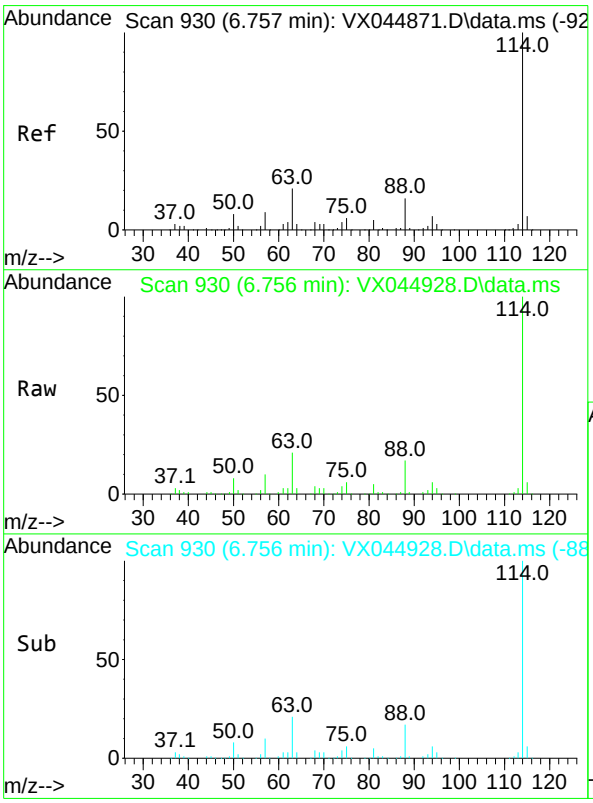
#33
1,2-Dichloroethane-d4
Concen: 55.377 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Tgt Ion: 65 Resp: 71223

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	108.2

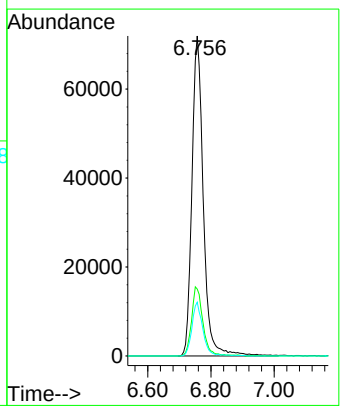


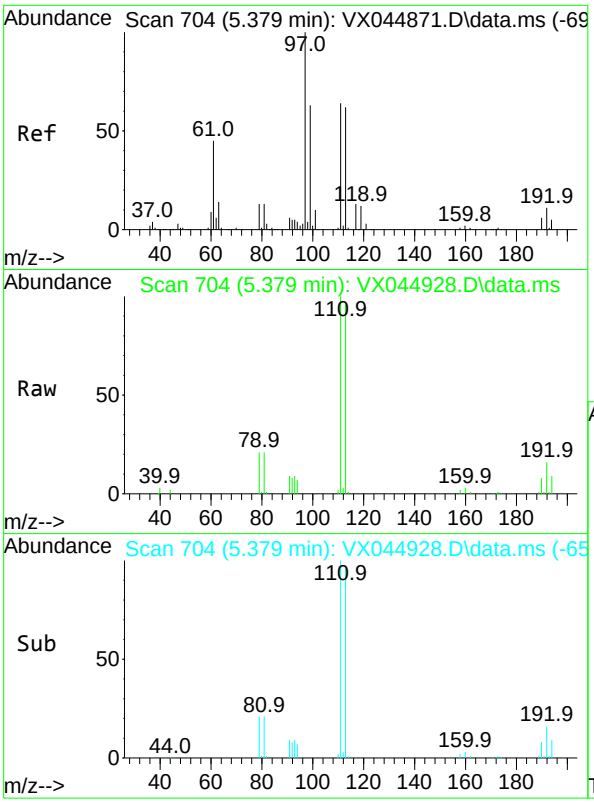


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.756 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Tgt Ion:114 Resp: 179992

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.4
88	16.8	0.0	31.4



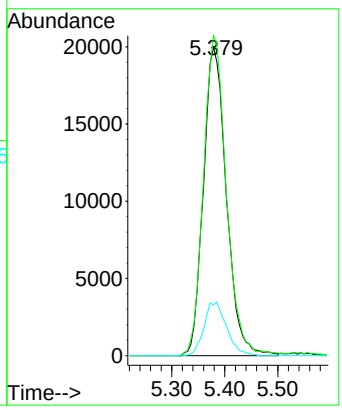


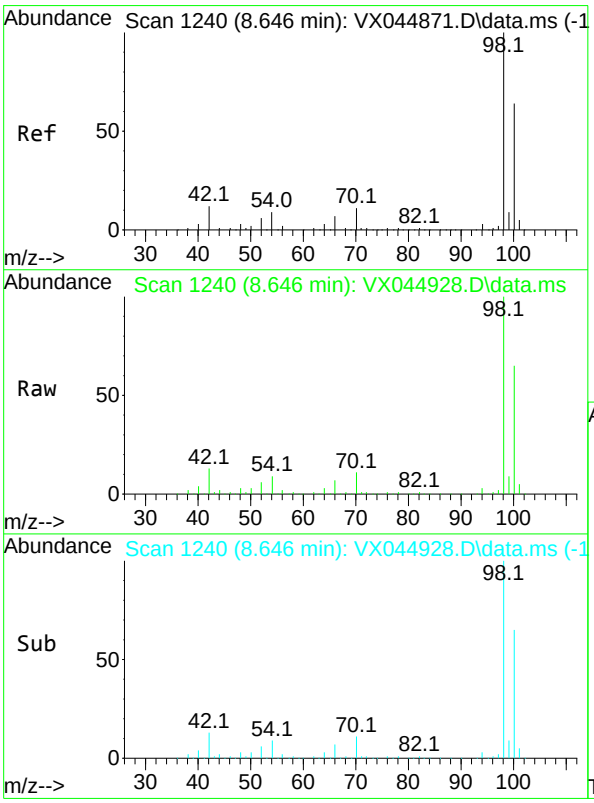
#35
Dibromofluoromethane
Concen: 51.459 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Tgt Ion:113 Resp: 60220

Ion	Ratio	Lower	Upper
113	100		
111	103.7	83.5	125.3
192	17.1	14.4	21.6

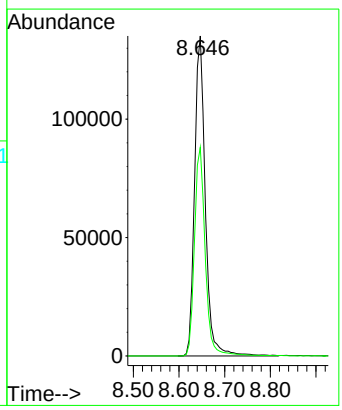


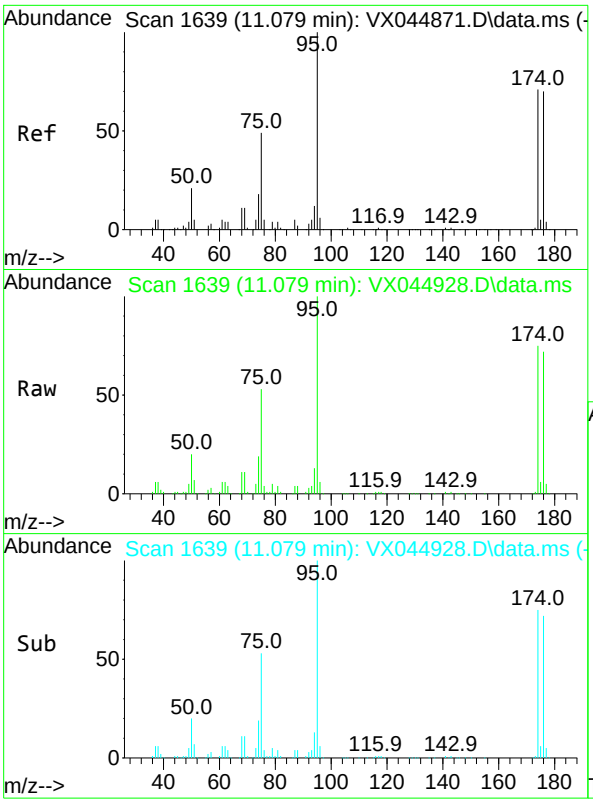


#50
Toluene-d8
Concen: 49.953 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Tgt Ion: 98 Resp: 221052

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1



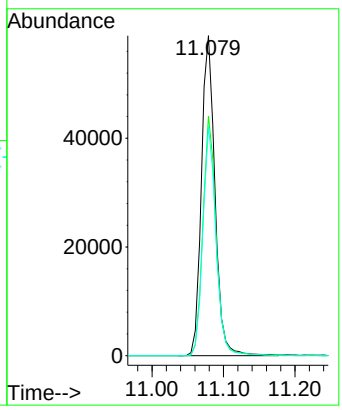


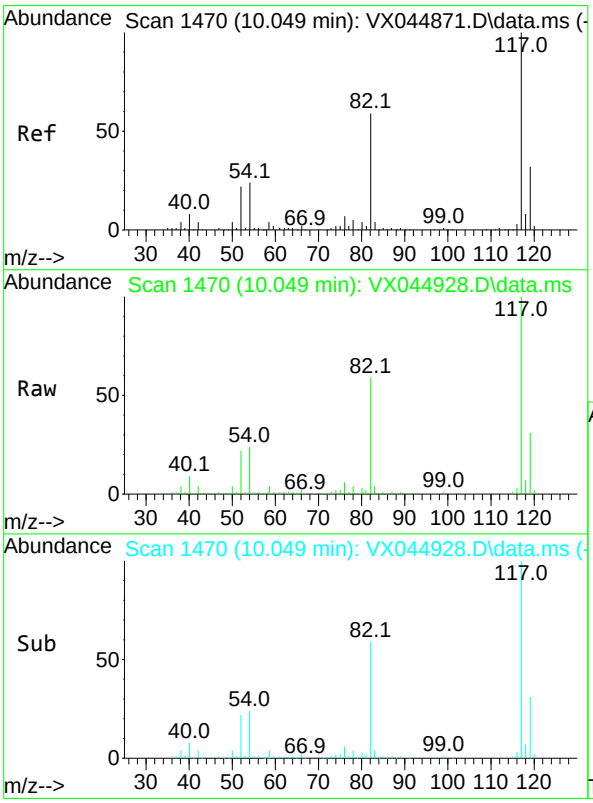
#62
4-Bromofluorobenzene
Concen: 51.888 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Tgt Ion: 95 Resp: 77408

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	142.6
176	69.7	0.0	141.6

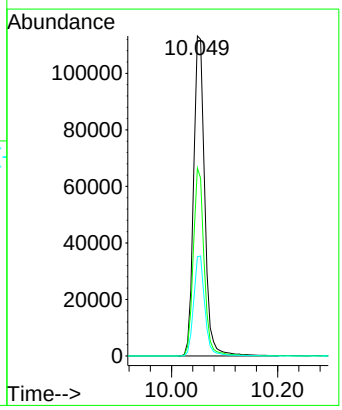


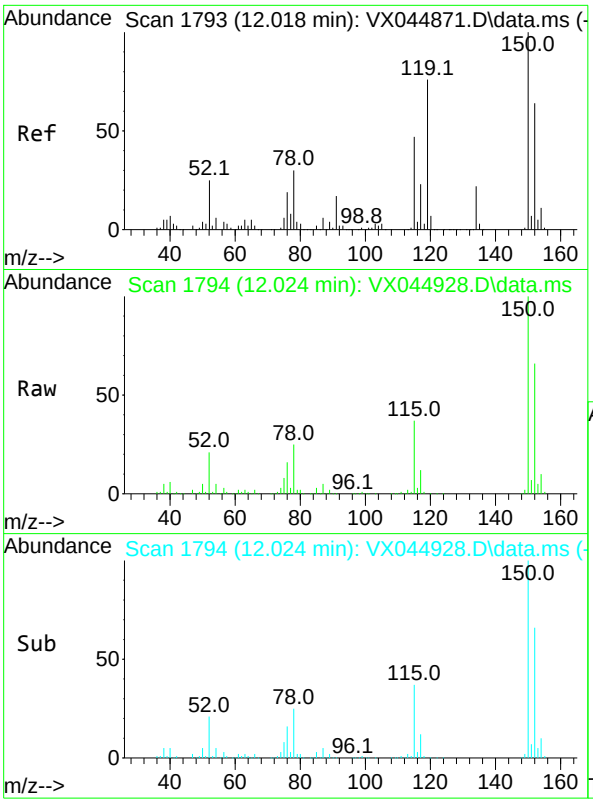


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Tgt Ion:117 Resp: 164982

Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.5	71.3
119	31.0	25.4	38.0



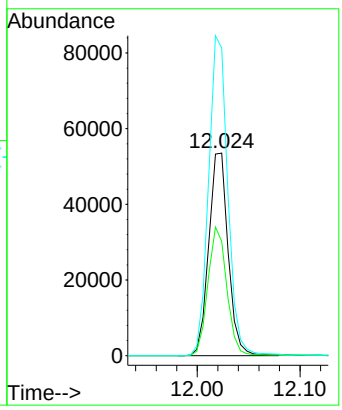


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044928.D
Acq: 12 Feb 2025 13:17

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Tgt Ion:152 Resp: 70282

Ion	Ratio	Lower	Upper
152	100		
115	62.1	43.4	130.1
150	157.0	0.0	350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044928.D
Acq On : 12 Feb 2025 13:17
Operator : JC/MD
Sample : Q1347-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260

Signal : TIC: VX044928.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.446	56	59	63	rBV	8591	9567	1.62%	0.312%
2	2.385	207	213	218	rVB2	4978	8472	1.43%	0.276%
3	5.379	694	704	720	rBV	66753	198462	33.59%	6.471%
4	5.543	720	731	751	rVV	90941	269537	45.62%	8.788%
5	5.952	789	798	810	rBV	76148	204292	34.58%	6.661%
6	6.756	921	930	947	rBV	170127	419882	71.06%	13.690%
7	8.646	1233	1240	1263	rBV	359060	590853	100.00%	19.264%
8	9.524	1381	1384	1397	rBV3	4486	9724	1.65%	0.317%
9	10.049	1465	1470	1492	rBV	361861	520507	88.09%	16.971%
10	11.079	1634	1639	1652	rBV	290003	374396	63.37%	12.207%
11	11.932	1775	1779	1788	rBV2	3407	6365	1.08%	0.208%
12	12.018	1788	1793	1804	rVV	354742	447372	75.72%	14.586%
13	12.853	1924	1930	1936	rBV3	4906	7653	1.30%	0.250%

Sum of corrected areas: 3067082

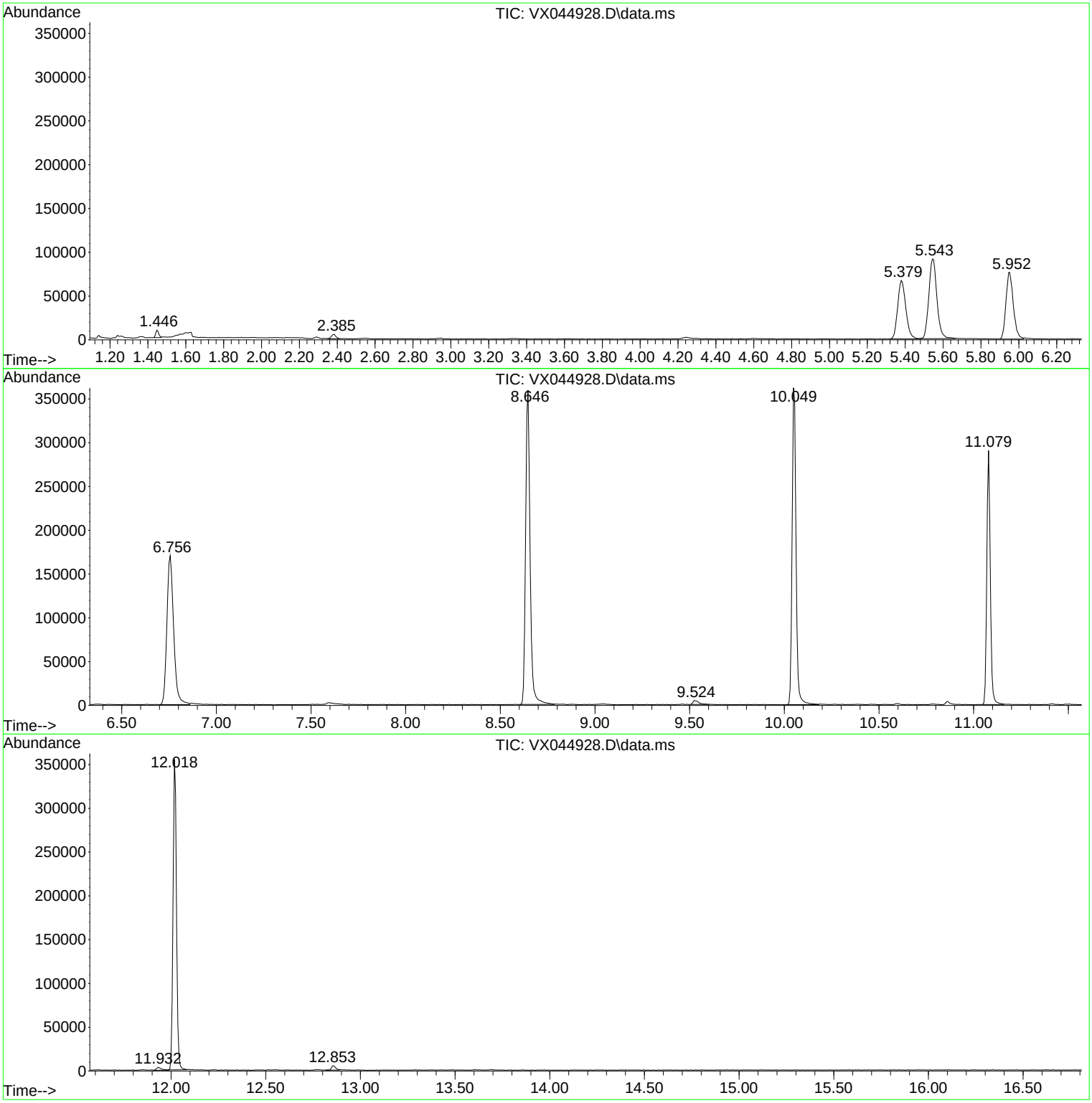
Sample Results: **VX044928.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044928.D
Acq On : 12 Feb 2025 13:17
Operator : JC/MD
Sample : Q1347-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044928.D
Acq On : 12 Feb 2025 13:17
Operator : JC/MD
Sample : Q1347-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044928.D
Acq On : 12 Feb 2025 13:17
Operator : JC/MD
Sample : Q1347-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-640-642

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-660-662	SDG No.:	Q1347
Lab Sample ID:	Q1347-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044929.D	1		02/12/25 13:40	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	14.5		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.38	J	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-660-662	SDG No.:	Q1347
Lab Sample ID:	Q1347-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044929.D	1		02/12/25 13:40	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.5		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.4		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	87400	5.55				
540-36-3	1,4-Difluorobenzene	178000	6.757				
3114-55-4	Chlorobenzene-d5	165000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	70800	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-660-662	SDG No.:	Q1347
Lab Sample ID:	Q1347-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044929.D	1		02/12/25 13:40	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044929.D
Acq On : 12 Feb 2025 13:40
Operator : JC/MD
Sample : Q1347-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Quant Time: Feb 13 00:50:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

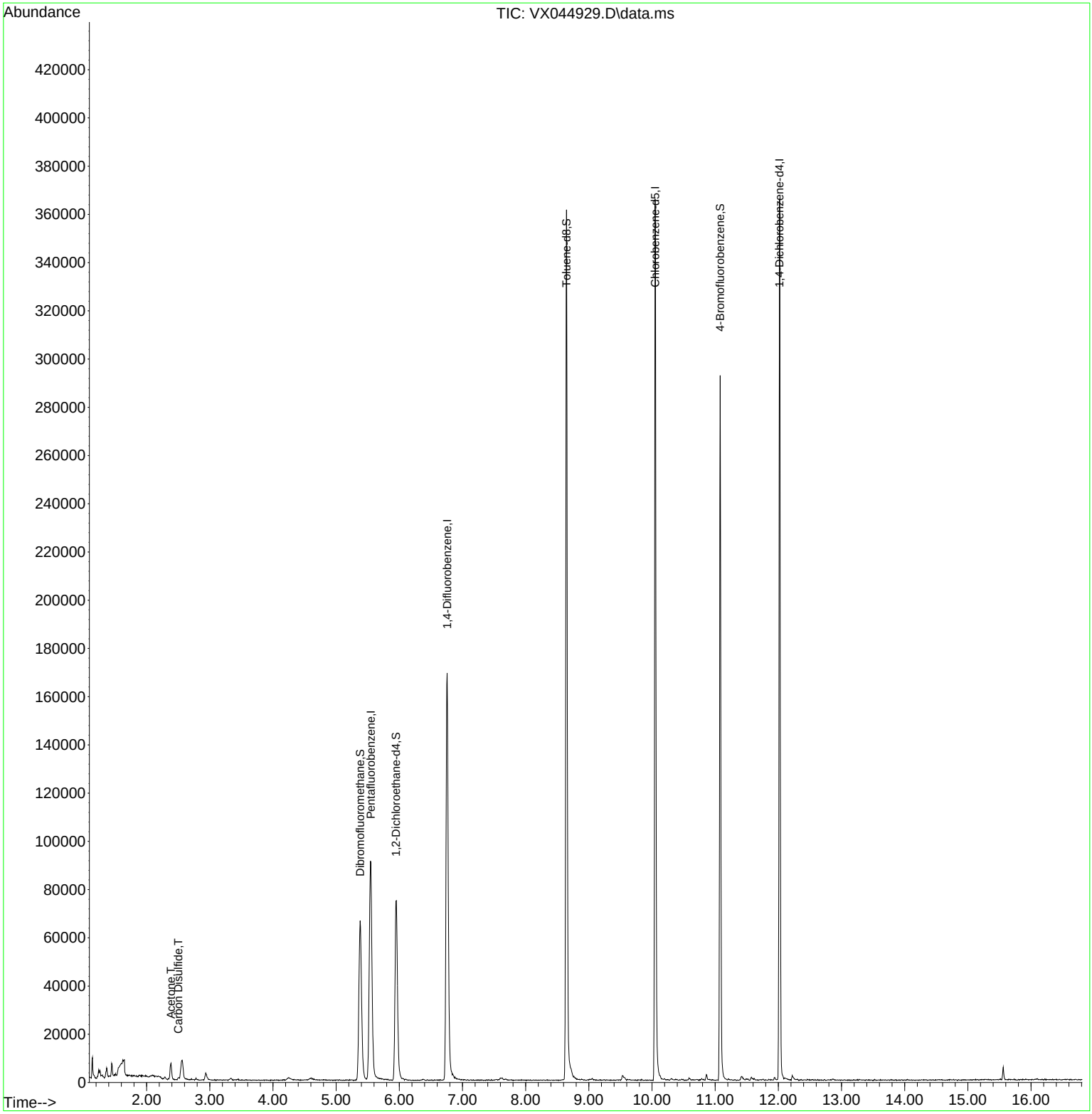
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	87405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177786	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	164986	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	70815	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	71019	55.507	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.020%			
35) Dibromofluoromethane	5.379	113	59283	51.287	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.580%			
50) Toluene-d8	8.647	98	221697	50.721	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.440%			
62) 4-Bromofluorobenzene	11.079	95	78758	53.448	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.900%			
Target Compounds						Qvalue
16) Acetone	2.386	43	7472	14.527	ug/l	93
17) Carbon Disulfide	2.502	76	1166	0.377	ug/l #	76

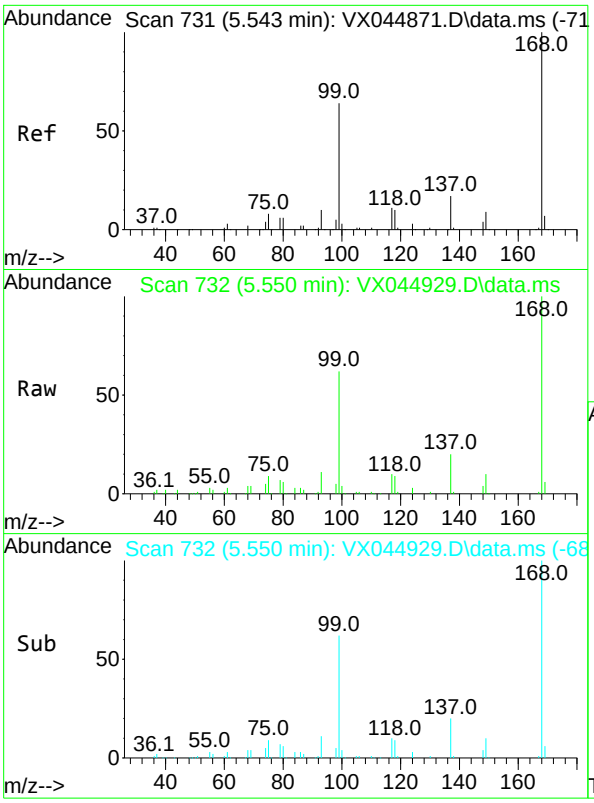
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044929.D
Acq On : 12 Feb 2025 13:40
Operator : JC/MD
Sample : Q1347-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Quant Time: Feb 13 00:50:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



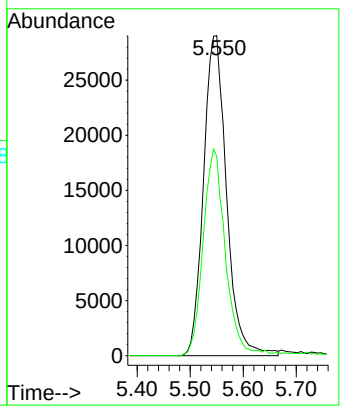


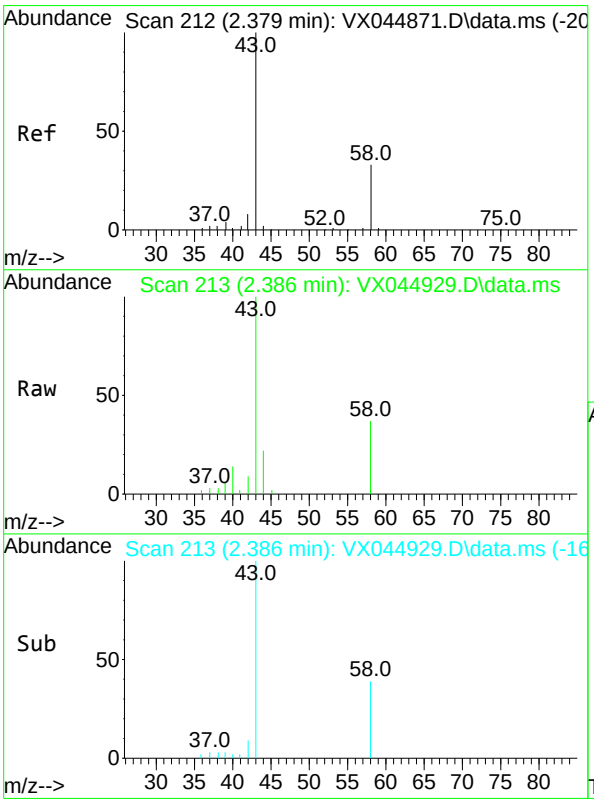
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Tgt Ion:168 Resp: 87405

Ion	Ratio	Lower	Upper
168	100		
99	62.3	51.2	76.8

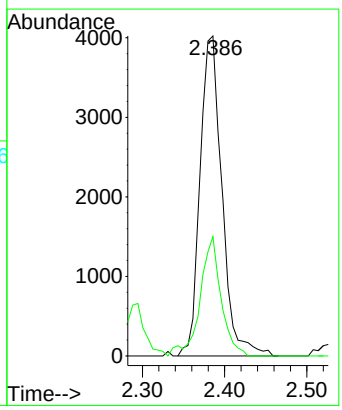


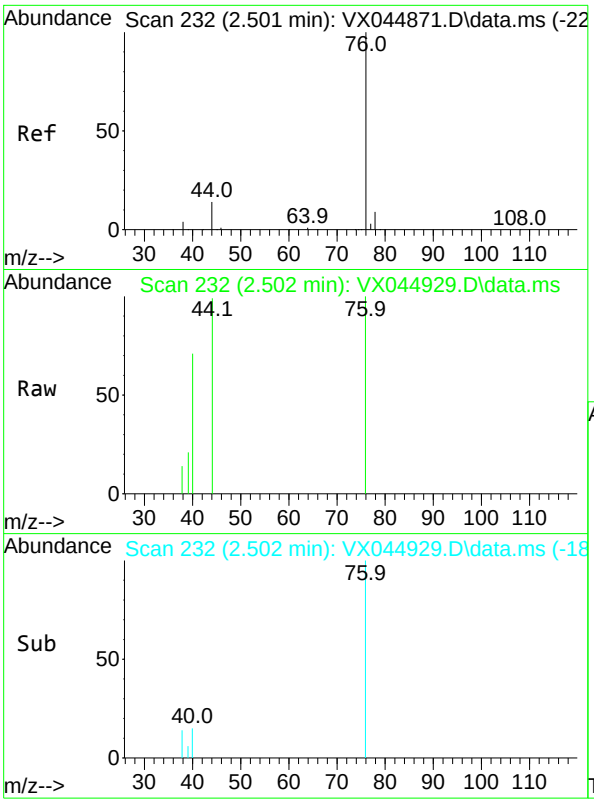


#16
Acetone
Concen: 14.527 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.007 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Tgt Ion: 43 Resp: 7472

Ion	Ratio	Lower	Upper
43	100		
58	37.3	26.5	39.7



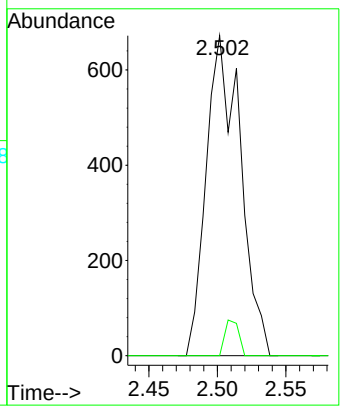


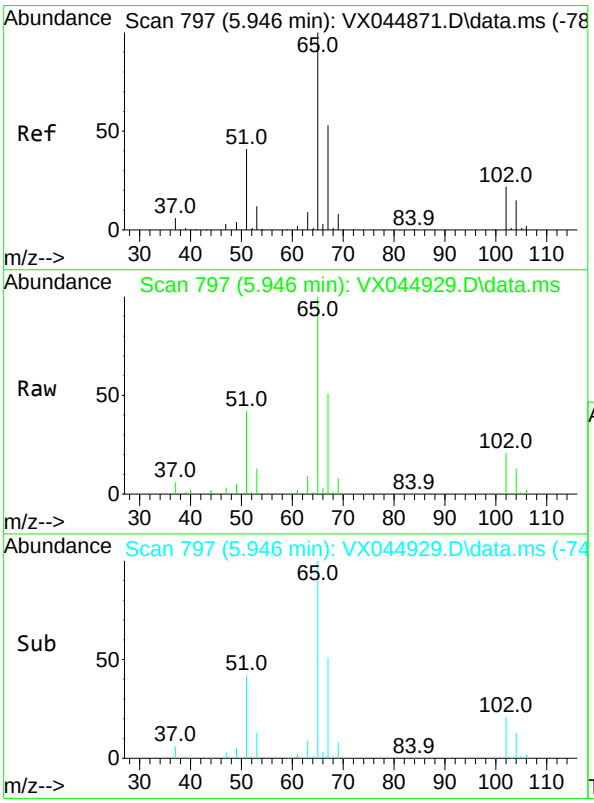
#17
Carbon Disulfide
Concen: 0.377 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Tgt Ion: 76 Resp: 1166

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.0	10.4#

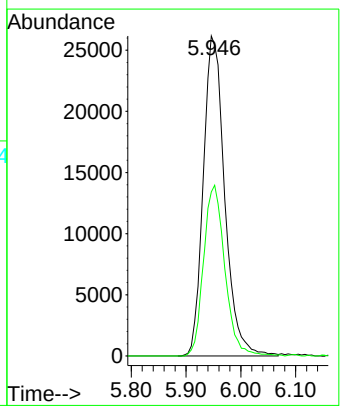


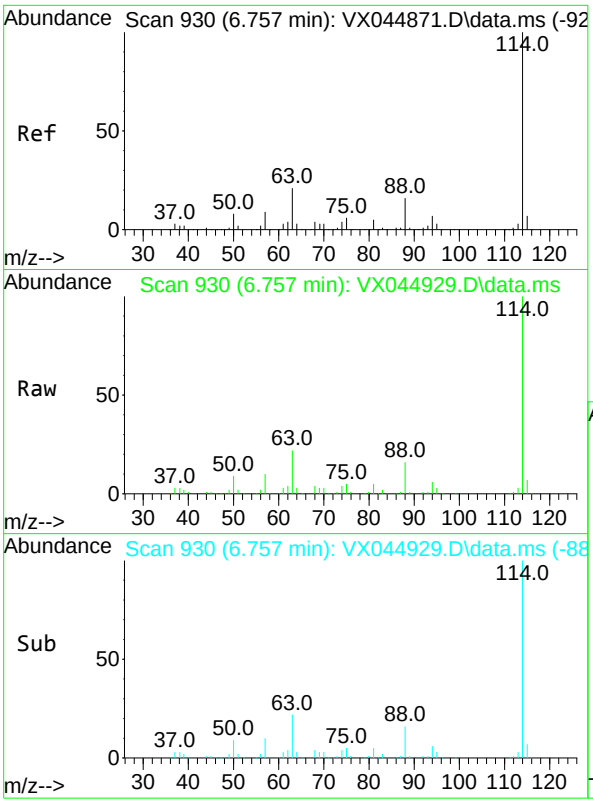


#33
1,2-Dichloroethane-d4
Concen: 55.507 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.000 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Tgt Ion: 65 Resp: 71019

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	108.2



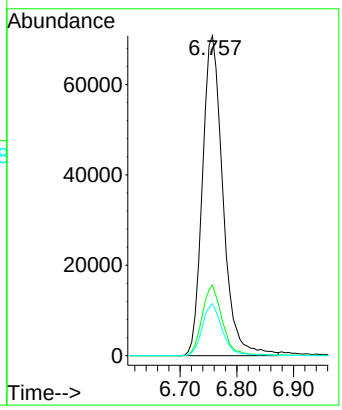


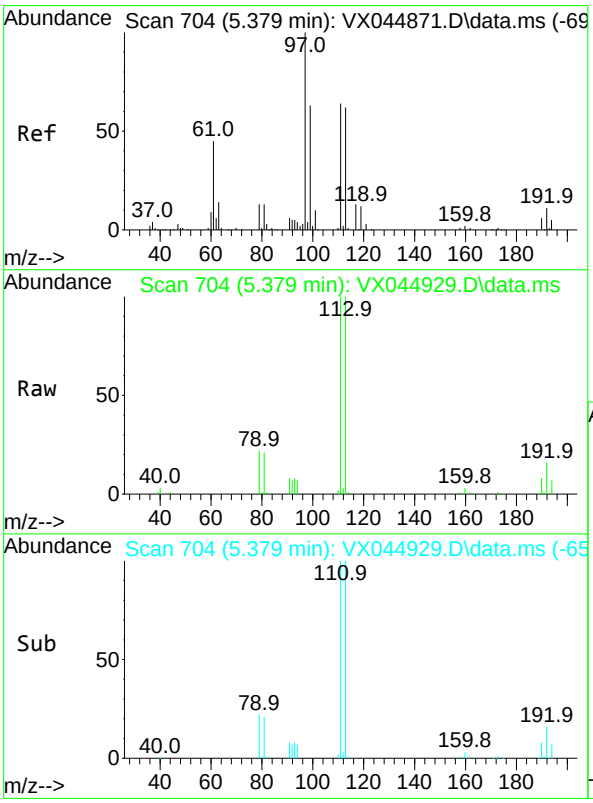
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Tgt Ion:114 Resp: 177786

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	42.4
88	16.3	0.0	31.4

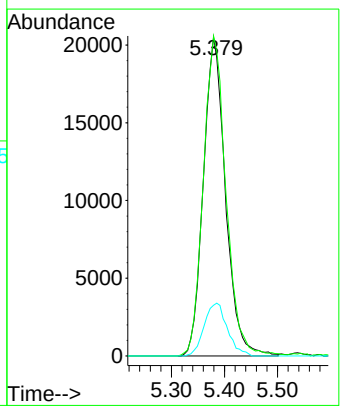


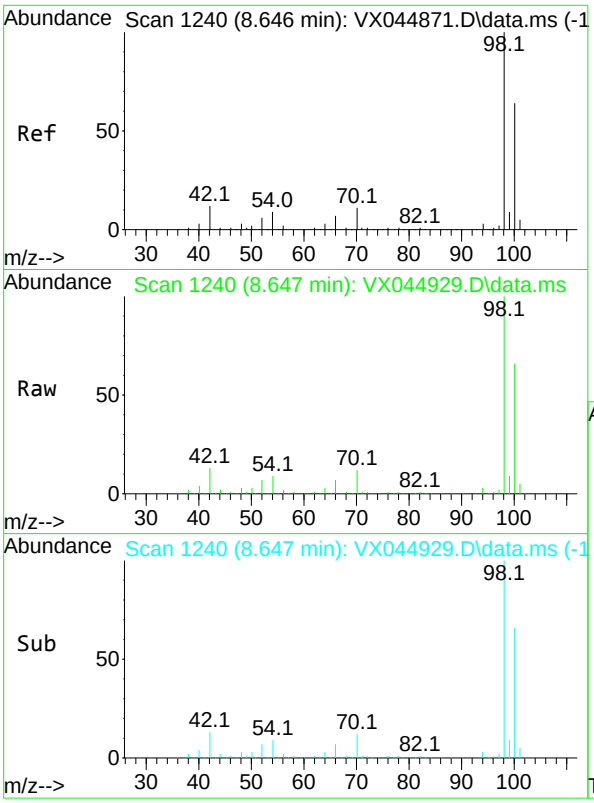


#35
Dibromofluoromethane
Concen: 51.287 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Tgt Ion:113 Resp: 59283

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.5	125.3
192	17.4	14.4	21.6



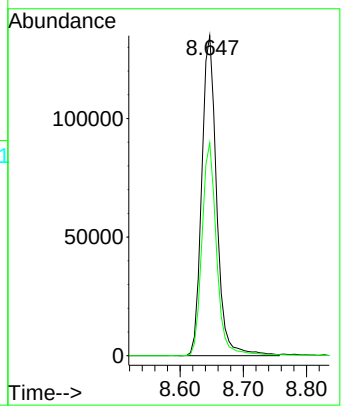


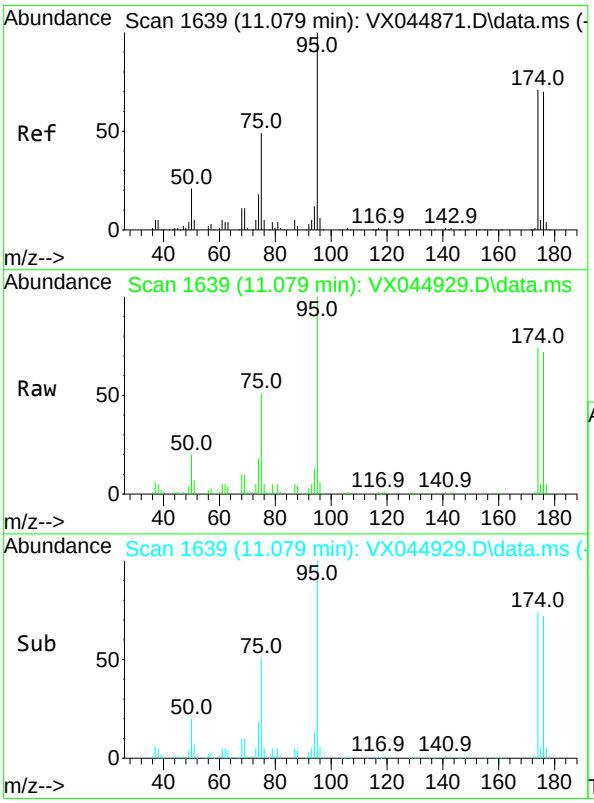
#50
Toluene-d8
Concen: 50.721 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Tgt Ion: 98 Resp: 221697

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1

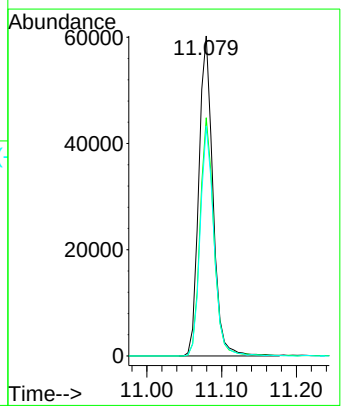


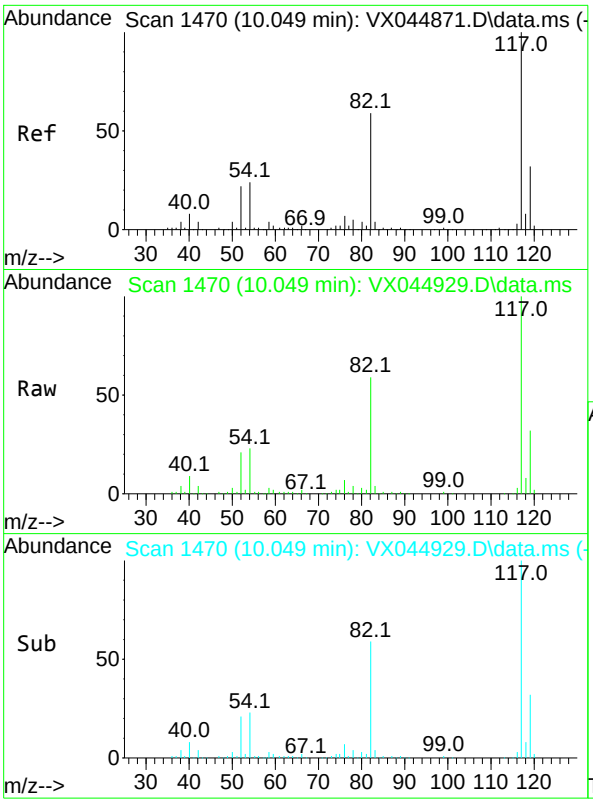


#62
4-Bromofluorobenzene
Concen: 53.448 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Tgt Ion: 95 Resp: 78758

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	142.6
176	70.0	0.0	141.6



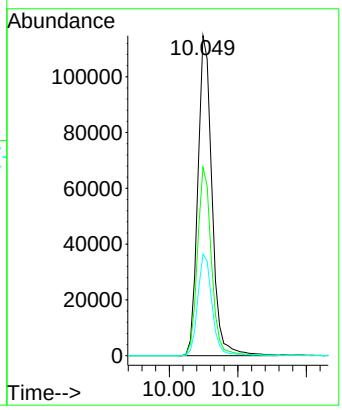


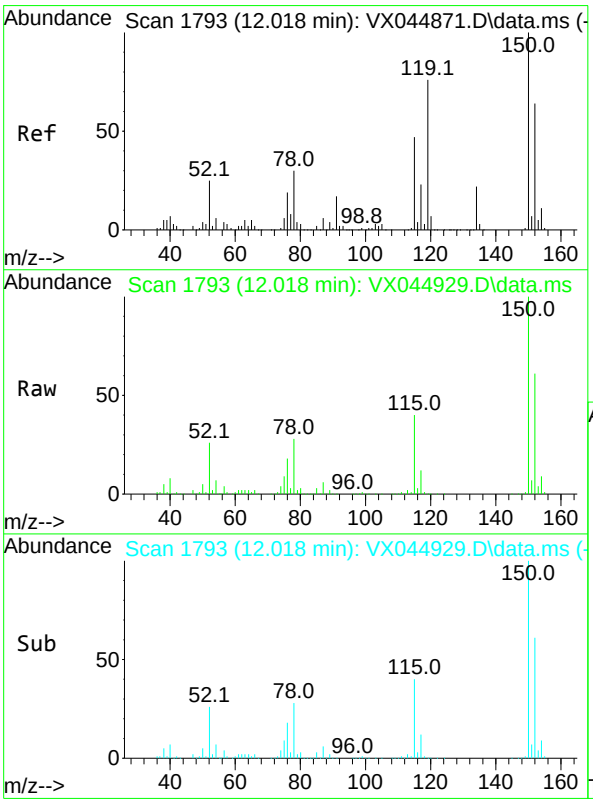
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Tgt Ion:117 Resp: 164986

Ion	Ratio	Lower	Upper
117	100		
82	58.9	47.5	71.3
119	31.8	25.4	38.0

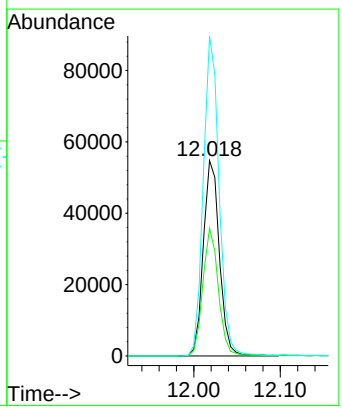




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044929.D
Acq: 12 Feb 2025 13:40

Tgt Ion:152 Resp: 70815

Ion	Ratio	Lower	Upper
152	100		
115	63.0	43.4	130.1
150	160.0	0.0	350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044929.D
Acq On : 12 Feb 2025 13:40
Operator : JC/MD
Sample : Q1347-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260

Signal : TIC: VX044929.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	20	rVB2	8616	10408	1.75%	0.333%
2	1.368	40	46	50	rBV3	4201	6953	1.17%	0.222%
3	1.447	56	59	65	rBV	5439	6502	1.09%	0.208%
4	1.605	72	85	86	rBV4	5022	18164	3.05%	0.581%
5	2.386	207	213	220	rVB	6776	12223	2.05%	0.391%
6	2.563	235	242	250	rVB	7757	19721	3.32%	0.630%
7	2.934	298	303	317	rBV3	3042	7206	1.21%	0.230%
8	5.379	692	704	720	rBV2	66182	195758	32.91%	6.257%
9	5.544	720	731	745	rBV	90533	265018	44.55%	8.471%
10	5.952	788	798	812	rBV	74589	204592	34.39%	6.540%
11	6.757	921	930	943	rBV	168647	415852	69.91%	13.293%
12	8.647	1233	1240	1258	rBV	360661	594853	100.00%	19.014%
13	10.049	1465	1470	1486	rBV	365632	525162	88.28%	16.787%
14	11.079	1634	1639	1658	rBV	292343	380837	64.02%	12.173%
15	12.018	1788	1793	1804	rBV	365239	458516	77.08%	14.656%
16	15.560	2370	2374	2379	rVB3	5282	6663	1.12%	0.213%

Sum of corrected areas: 3128428

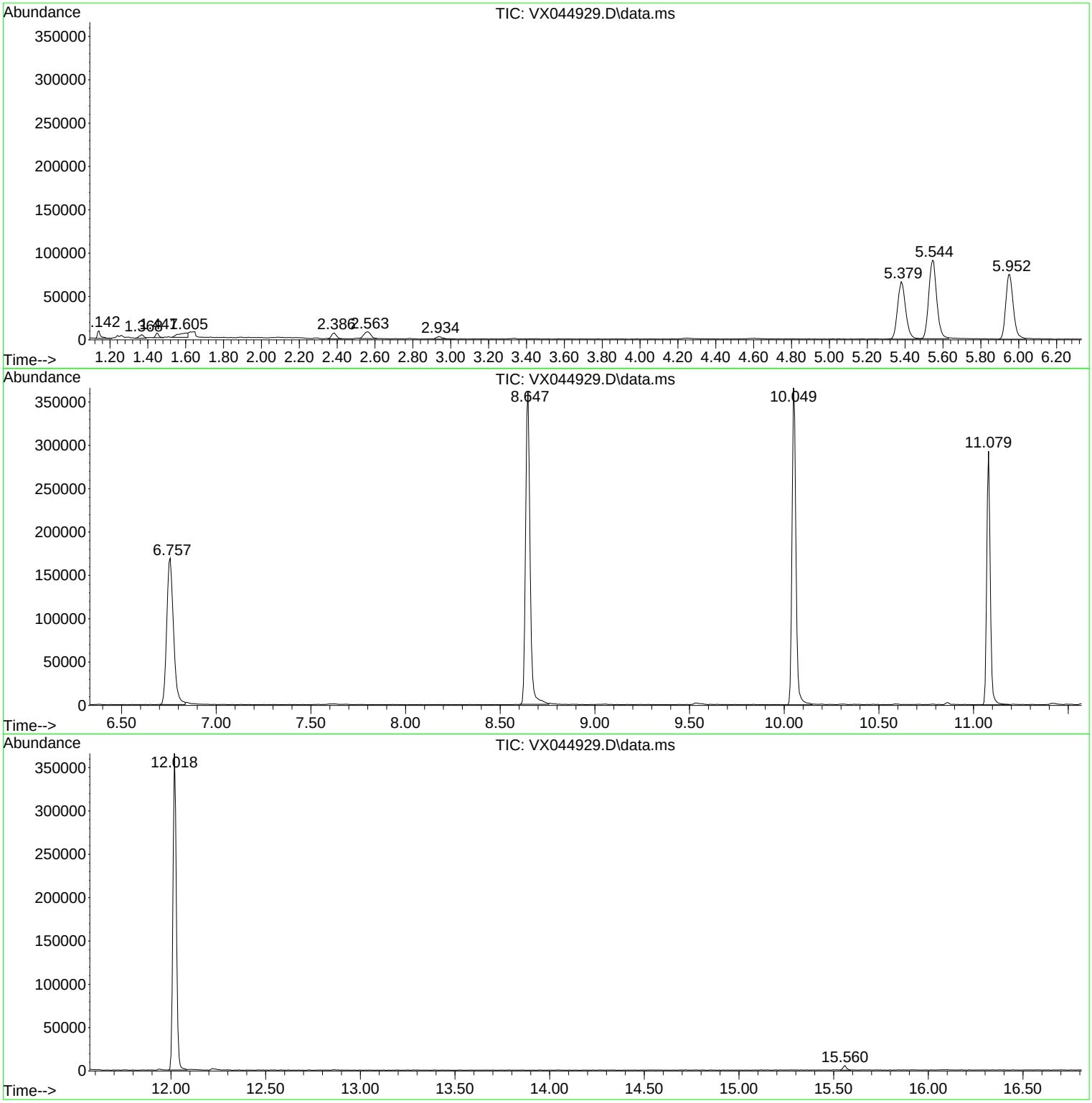
Sample Results: **VX044929.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044929.D
Acq On : 12 Feb 2025 13:40
Operator : JC/MD
Sample : Q1347-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044929.D
Acq On : 12 Feb 2025 13:40
Operator : JC/MD
Sample : Q1347-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044929.D
Acq On : 12 Feb 2025 13:40
Operator : JC/MD
Sample : Q1347-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-660-662

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-680-682	SDG No.:	Q1347
Lab Sample ID:	Q1347-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044930.D	1		02/12/25 14:03	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	34.3		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	8.90		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	1.40	J	1.10	2.50	5.00	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-680-682	SDG No.:	Q1347
Lab Sample ID:	Q1347-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044930.D	1		02/12/25 14:03	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.4		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	89100	5.544				
540-36-3	1,4-Difluorobenzene	186000	6.757				
3114-55-4	Chlorobenzene-d5	170000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	73200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/06/25
Project:	CTO WE13	Date Received:	02/10/25
Client Sample ID:	BP-VPB-192-GW-680-682	SDG No.:	Q1347
Lab Sample ID:	Q1347-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044930.D	1		02/12/25 14:03	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044930.D
Acq On : 12 Feb 2025 14:03
Operator : JC/MD
Sample : Q1347-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Quant Time: Feb 13 00:51:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

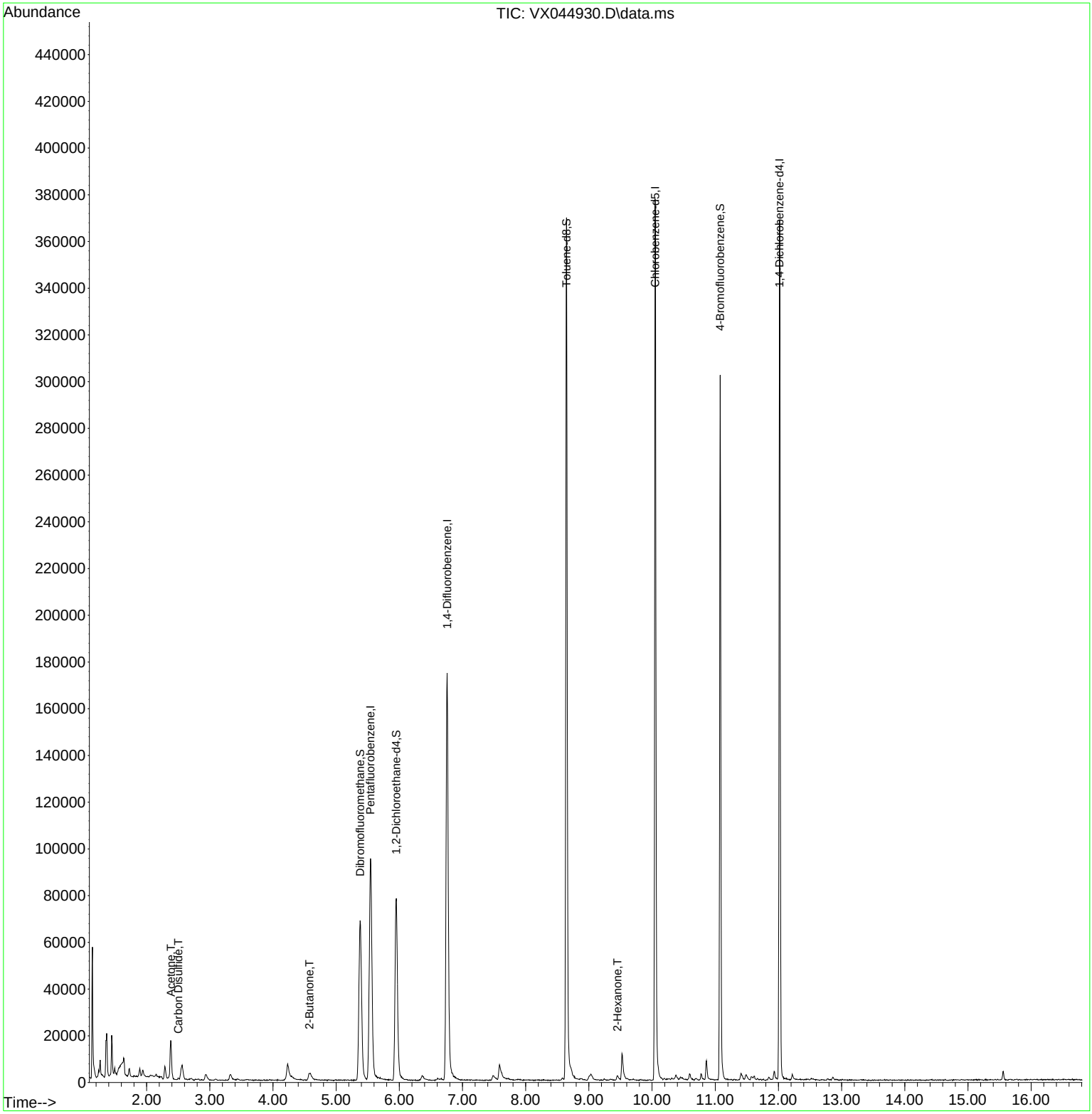
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	89084	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	185691	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	170107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73243	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	73552	56.404	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.800%			
35) Dibromofluoromethane	5.379	113	61678	51.088	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.180%			
50) Toluene-d8	8.647	98	226208	49.549	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.100%			
62) 4-Bromofluorobenzene	11.079	95	81128	52.713	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.420%			
Target Compounds						Qvalue
16) Acetone	2.386	43	17967	34.273	ug/l	99
17) Carbon Disulfide	2.502	76	878	0.279	ug/l #	80
25) 2-Butanone	4.574	43	7534	8.850	ug/l	96
59) 2-Hexanone	9.452	43	1949	1.422	ug/l	89

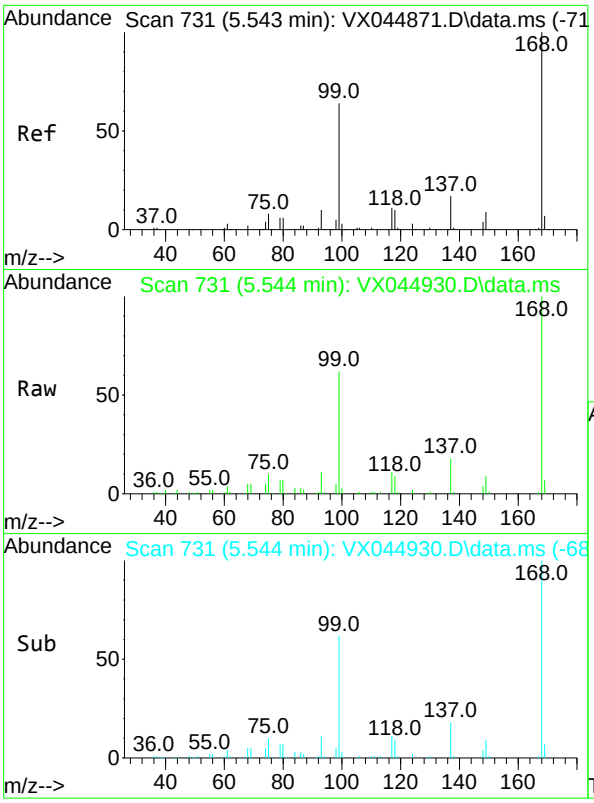
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044930.D
Acq On : 12 Feb 2025 14:03
Operator : JC/MD
Sample : Q1347-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Quant Time: Feb 13 00:51:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



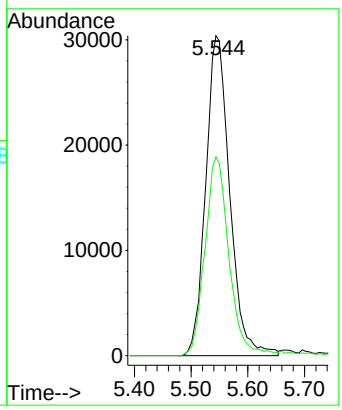


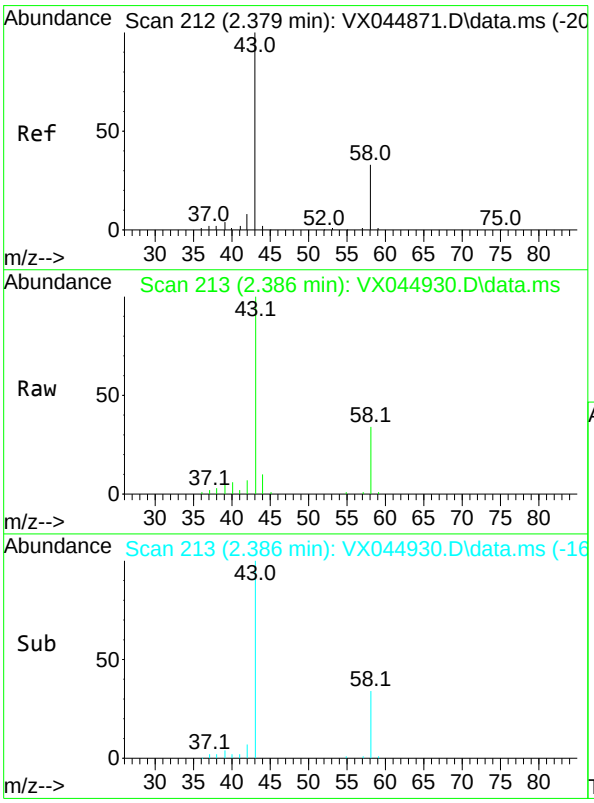
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Tgt Ion:168 Resp: 89084

Ion	Ratio	Lower	Upper
168	100		
99	62.1	51.2	76.8

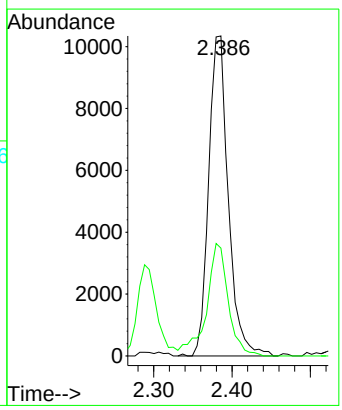


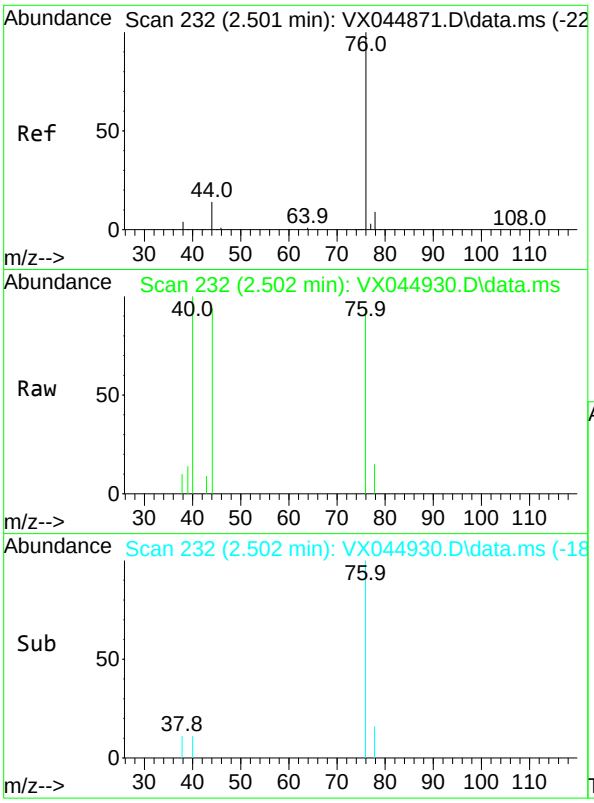


#16
Acetone
Concen: 34.273 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Tgt Ion: 43 Resp: 17967

Ion	Ratio	Lower	Upper
43	100		
58	33.7	26.5	39.7



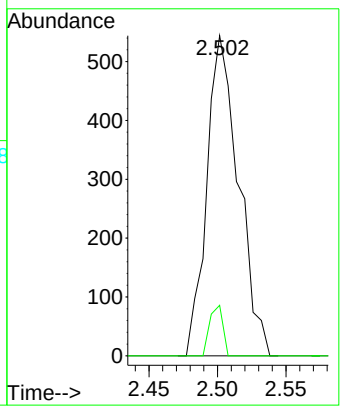


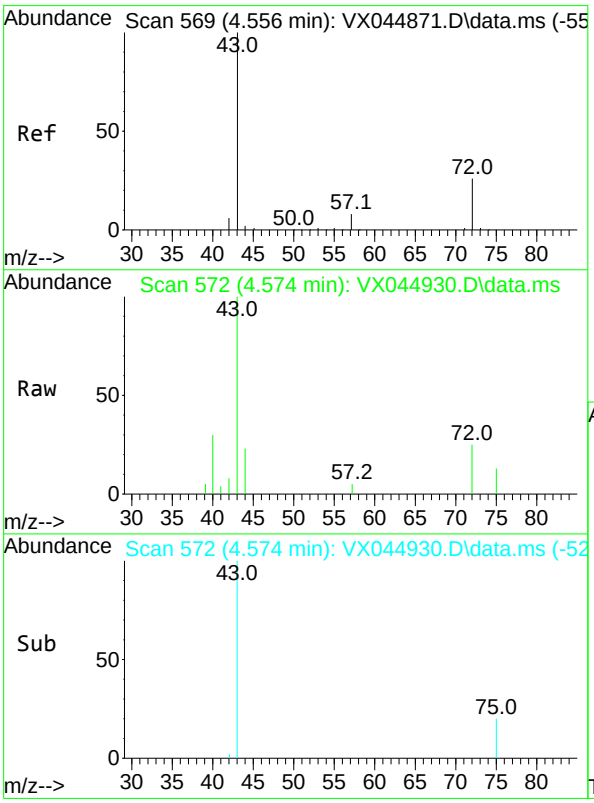
#17
Carbon Disulfide
Concen: 0.279 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Tgt Ion: 76 Resp: 878

Ion	Ratio	Lower	Upper
76	100		
78	15.8	7.0	10.4#

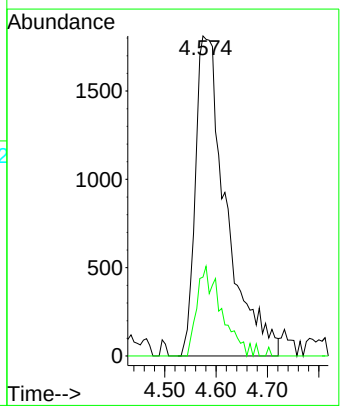


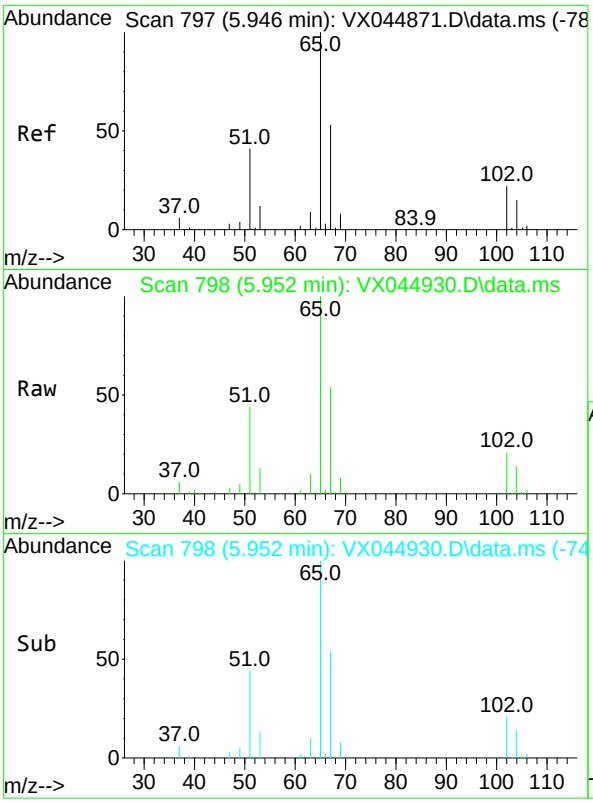


#25
2-Butanone
Concen: 8.850 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.019 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Tgt Ion: 43 Resp: 7534

Ion	Ratio	Lower	Upper
43	100		
72	24.7	21.2	31.8



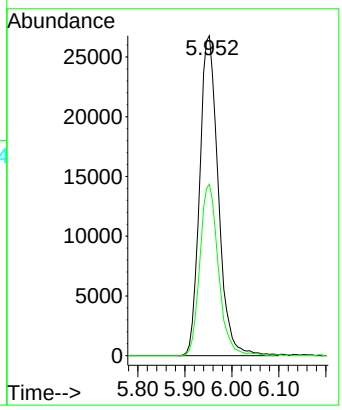


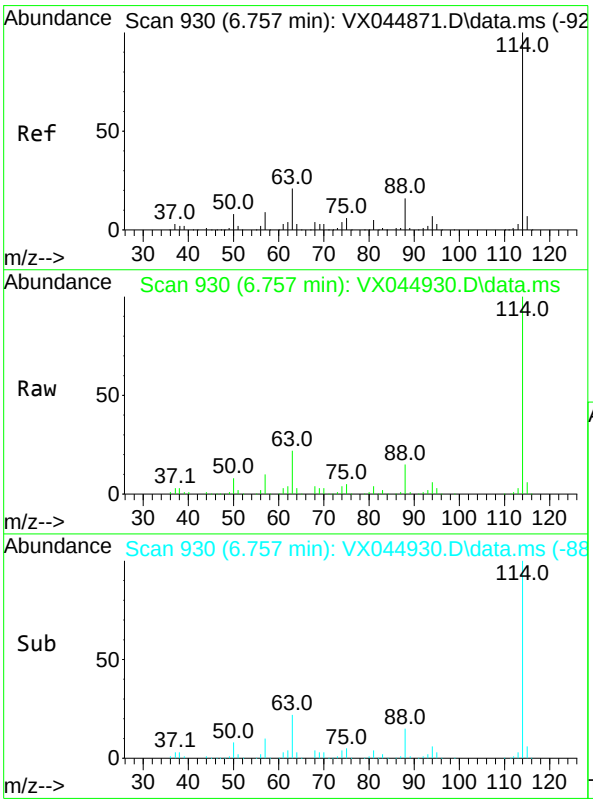
#33
1,2-Dichloroethane-d4
Concen: 56.404 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Tgt Ion: 65 Resp: 73552

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	108.2

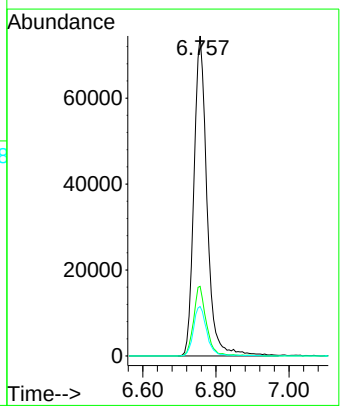


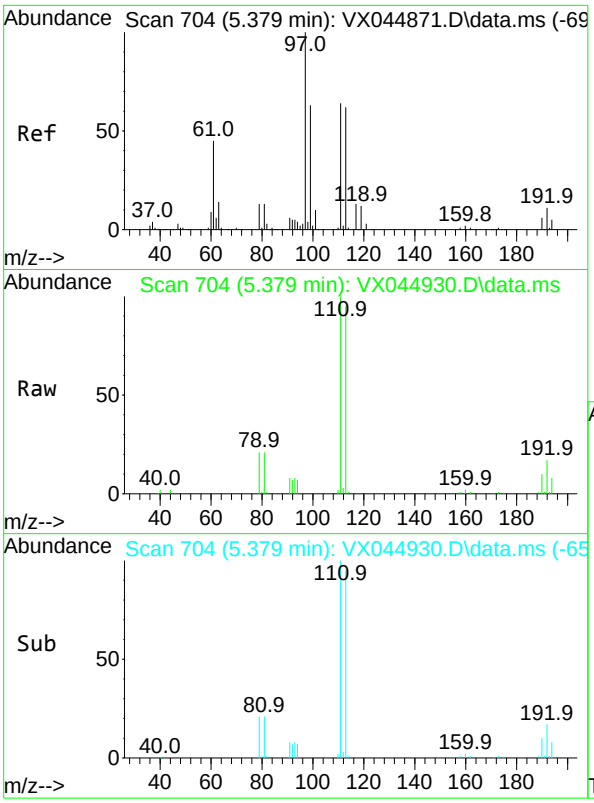


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Tgt Ion:114 Resp: 185691

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	15.5	0.0	31.4



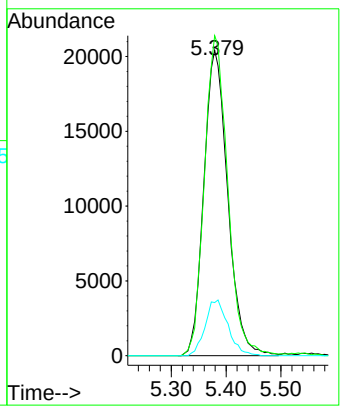


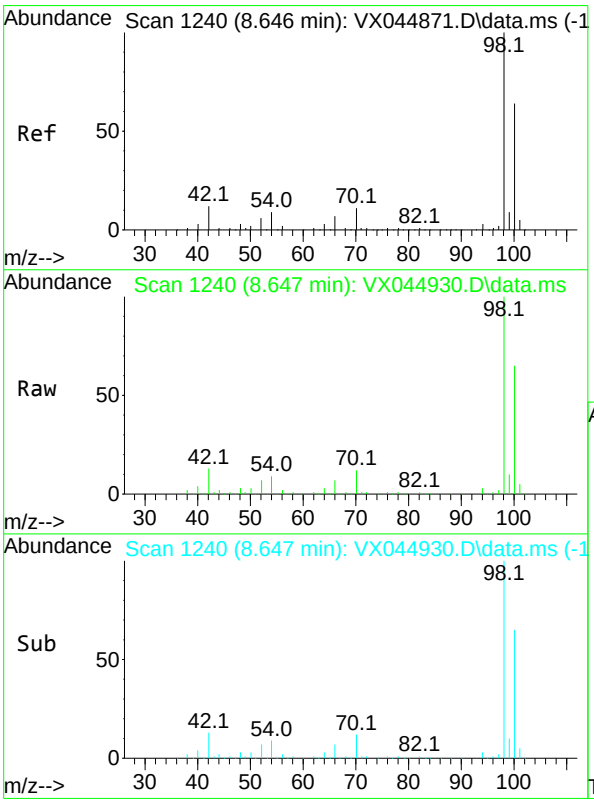
#35
Dibromofluoromethane
Concen: 51.088 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Tgt Ion:113 Resp: 61678

Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.5	125.3
192	17.5	14.4	21.6

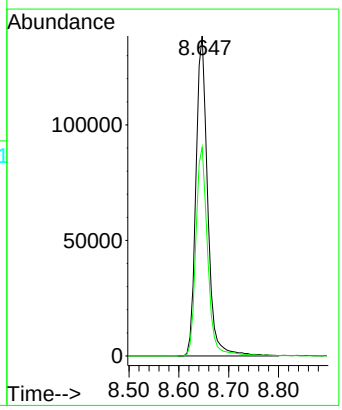


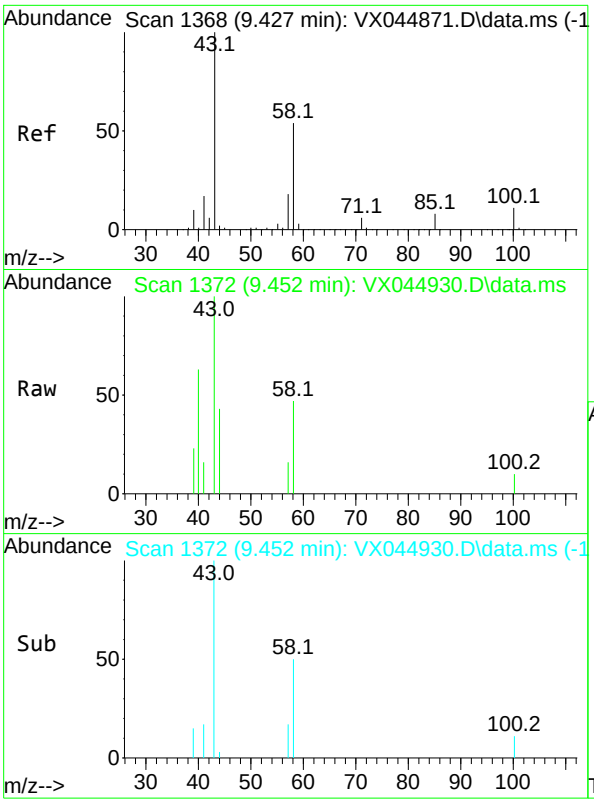


#50
Toluene-d8
Concen: 49.549 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Tgt Ion: 98 Resp: 226208

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1



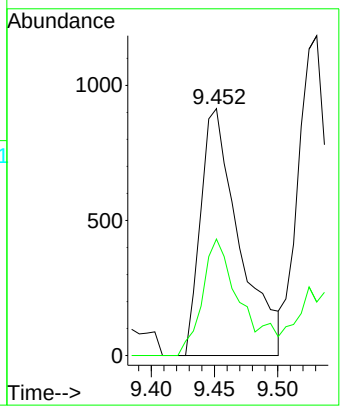


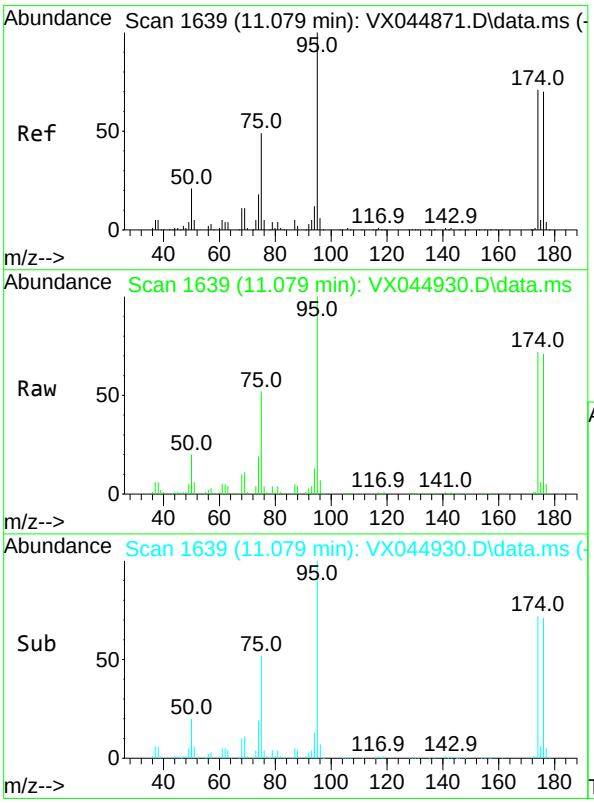
#59
2-Hexanone
Concen: 1.422 ug/l
RT: 9.452 min Scan# 1
Delta R.T. 0.025 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Tgt Ion: 43 Resp: 1949

Ion	Ratio	Lower	Upper
43	100		
58	47.0	27.5	82.4

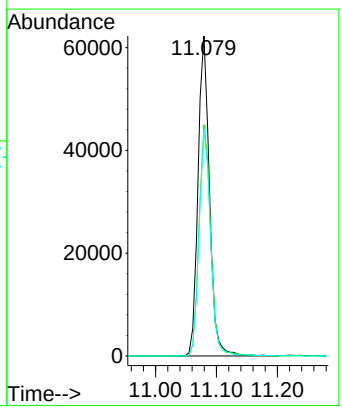


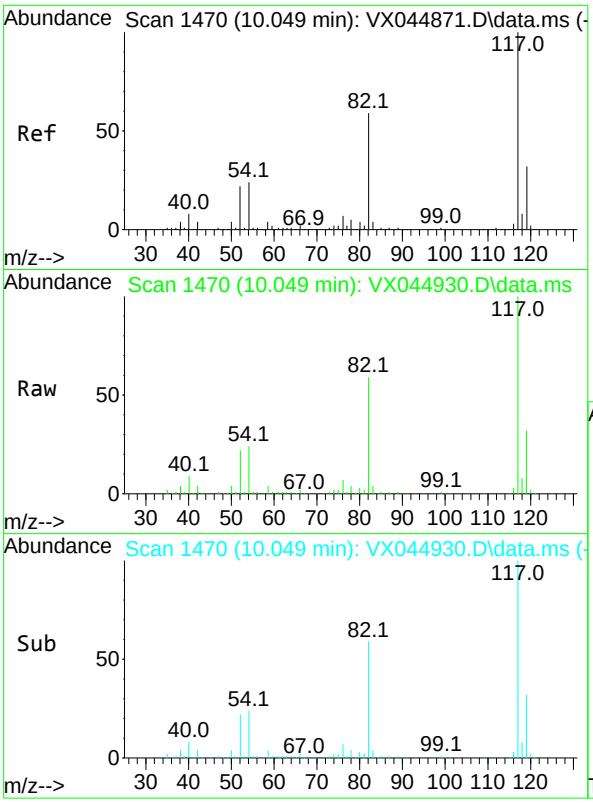


#62
4-Bromofluorobenzene
Concen: 52.713 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Tgt Ion: 95 Resp: 81128

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	142.6
176	71.0	0.0	141.6



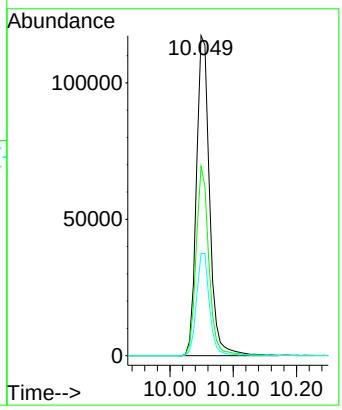


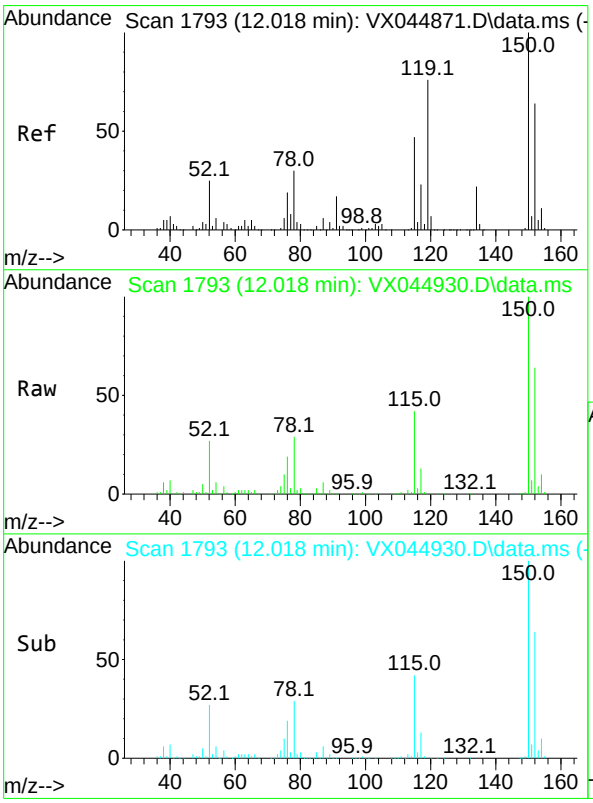
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Tgt Ion:117 Resp: 170107

Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.5	71.3
119	32.0	25.4	38.0

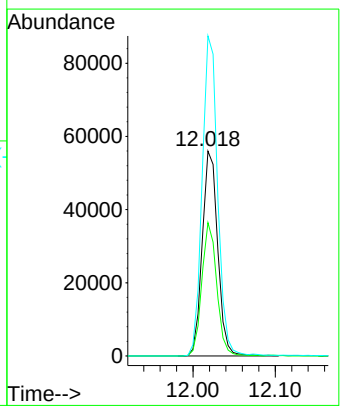




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044930.D
Acq: 12 Feb 2025 14:03

Tgt Ion:152 Resp: 73243

Ion	Ratio	Lower	Upper
152	100		
115	62.8	43.4	130.1
150	156.3	0.0	350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044930.D
Acq On : 12 Feb 2025 14:03
Operator : JC/MD
Sample : Q1347-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260

Signal : TIC: VX044930.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	5	9	19	rBV	56292	61924	10.18%	1.813%
2	1.264	26	29	40	rVB3	7458	10362	1.70%	0.303%
3	1.368	40	46	52	rBV2	18843	30985	5.10%	0.907%
4	1.447	56	59	65	rVV	16731	17812	2.93%	0.521%
5	1.636	88	90	97	rVB4	7591	10181	1.67%	0.298%
6	2.288	192	197	204	rBV	5486	9603	1.58%	0.281%
7	2.380	206	212	221	rVB	16574	29511	4.85%	0.864%
8	2.563	235	242	249	rBV	6052	14610	2.40%	0.428%
9	2.934	298	303	313	rVB4	2434	6404	1.05%	0.187%
10	3.325	361	367	373	rBV5	2443	6153	1.01%	0.180%
11	4.233	507	516	525	rBV2	6921	20247	3.33%	0.593%
12	5.379	694	704	721	rBV	68280	202947	33.37%	5.940%
13	5.544	721	731	749	rBV	94577	273144	44.92%	7.995%
14	5.952	789	798	811	rBV	77900	212539	34.95%	6.221%
15	6.757	921	930	946	rBV	174130	429030	70.55%	12.558%
16	7.482	1043	1049	1060	rBV4	2108	6953	1.14%	0.204%
17	7.586	1060	1066	1078	rBV2	6343	17801	2.93%	0.521%
18	8.647	1233	1240	1257	rBV	368934	608095	100.00%	17.799%
19	9.031	1294	1303	1315	rBV7	2628	9489	1.56%	0.278%
20	9.525	1380	1384	1396	rVV	11064	21740	3.58%	0.636%
21	10.049	1465	1470	1490	rBV	377188	538443	88.55%	15.761%
22	10.860	1599	1603	1615	rVB2	8094	13356	2.20%	0.391%
23	11.079	1634	1639	1651	rBV	301674	393237	64.67%	11.510%
24	12.018	1788	1793	1804	rBV	367939	471817	77.59%	13.810%

Sum of corrected areas: 3416383

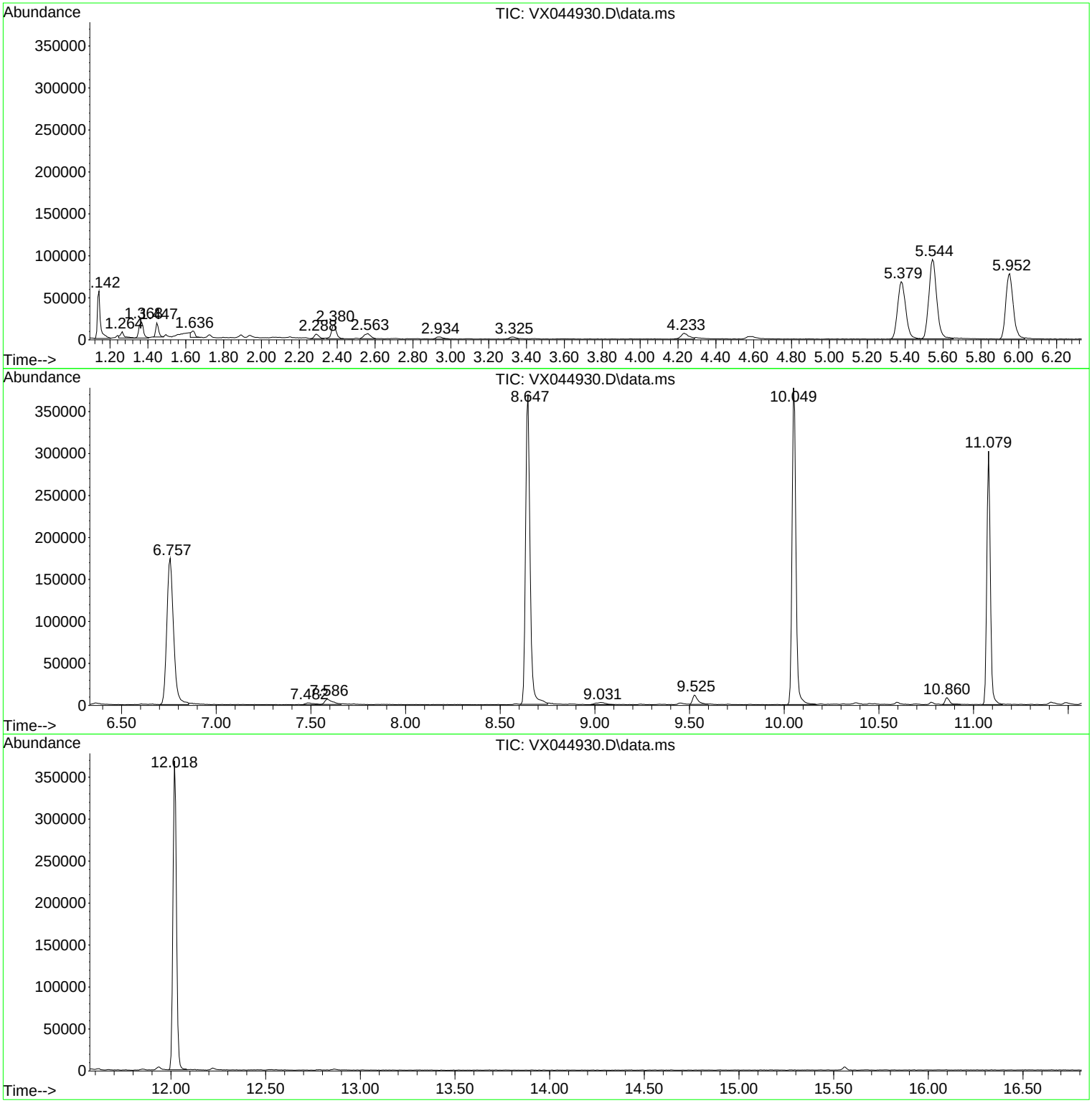
Sample Results: **VX044930.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044930.D
Acq On : 12 Feb 2025 14:03
Operator : JC/MD
Sample : Q1347-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044930.D
Acq On : 12 Feb 2025 14:03
Operator : JC/MD
Sample : Q1347-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044930.D
Acq On : 12 Feb 2025 14:03
Operator : JC/MD
Sample : Q1347-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-192-GW-680-682

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG No.: Q1347

Instrument ID: MSVOA_X Calibration Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:25 12:28

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

LAB FILE ID: RRF001 = VX044868.D RRF005 = VX044869.D RRF020 = VX044870.D
RRF050 = VX044871.D RRF100 = VX044872.D RRF150 = VX044873.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Chloromethane	0.958	0.860	0.862	0.843	0.805	0.793	0.854	6.9
Vinyl Chloride	0.839	0.846	0.847	0.808	0.807	0.814	0.827	2.3
Bromomethane		0.248	0.252	0.249	0.242	0.246	0.247	1.4
Chloroethane	0.500	0.288	0.280	0.341	0.249	0.181	0.307	35.4
Trichlorofluoromethane	1.062	1.066	1.096	1.029	1.013	1.008	1.046	3.3
1,1,2-Trichlorotrifluoroethane	0.583	0.647	0.668	0.626	0.631	0.637	0.632	4.5
1,1-Dichloroethene	0.647	0.639	0.661	0.630	0.632	0.657	0.644	2
Acetone	0.305	0.292	0.298	0.293	0.285	0.292	0.294	2.3
Carbon Disulfide	1.689	1.732	1.786	1.762	1.789	1.846	1.767	3
Methyl tert-butyl Ether	1.941	2.065	2.130	2.046	2.011	2.110	2.050	3.4
Methylene Chloride	0.747	0.717	0.741	0.704	0.695	0.720	0.721	2.8
trans-1,2-Dichloroethene	0.608	0.622	0.657	0.640	0.633	0.644	0.634	2.7
1,1-Dichloroethane	1.155	1.257	1.292	1.227	1.209	1.257	1.233	3.9
2-Butanone	0.422	0.472	0.504	0.506	0.477	0.487	0.478	6.4
Carbon Tetrachloride	0.457	0.466	0.478	0.453	0.445	0.459	0.460	2.4
cis-1,2-Dichloroethene	0.680	0.783	0.812	0.758	0.758	0.779	0.762	5.9
Chloroform	1.167	1.209	1.268	1.169	1.153	1.208	1.196	3.5
1,1,1-Trichloroethane	1.014	1.003	1.051	1.005	0.984	1.028	1.014	2.3
Methylcyclohexane	0.509	0.571	0.667	0.622	0.634	0.635	0.606	9.4
Benzene	1.370	1.488	1.577	1.470	1.429	1.453	1.465	4.7
1,2-Dichloroethane	0.417	0.465	0.502	0.472	0.462	0.482	0.467	6.1
Trichloroethene	0.293	0.340	0.367	0.335	0.332	0.343	0.335	7.2
1,2-Dichloropropane	0.343	0.354	0.389	0.367	0.360	0.372	0.364	4.3
Bromodichloromethane	0.428	0.481	0.514	0.500	0.500	0.513	0.489	6.6
4-Methyl-2-Pentanone	0.439	0.514	0.562	0.554	0.506	0.498	0.512	8.6
Toluene	0.776	0.872	0.957	0.898	0.866	0.864	0.872	6.7
t-1,3-Dichloropropene	0.417	0.451	0.518	0.514	0.528	0.543	0.495	10
cis-1,3-Dichloropropene	0.452	0.511	0.587	0.577	0.587	0.599	0.552	10.5
1,1,2-Trichloroethane	0.307	0.342	0.362	0.341	0.331	0.329	0.335	5.4
2-Hexanone	0.313	0.360	0.406	0.404	0.369	0.362	0.369	9.3

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG No.: Q1347

Instrument ID: MSVOA_X Calibration Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:25 12:28

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

LAB FILE ID: RRF001 = VX044868.D RRF005 = VX044869.D RRF020 = VX044870.D
RRF050 = VX044871.D RRF100 = VX044872.D RRF150 = VX044873.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dibromochloromethane	0.317	0.342	0.381	0.373	0.368	0.370	0.359	6.7
Tetrachloroethene	0.306	0.311	0.343	0.310	0.307	0.314	0.315	4.4
Chlorobenzene	0.969	1.093	1.140	1.096	1.071	1.076	1.074	5.3
Ethyl Benzene	1.690	1.873	2.021	1.935	1.923	1.929	1.895	5.9
m/p-Xylenes	0.616	0.700	0.754	0.724	0.706	0.694	0.699	6.6
o-Xylene	0.661	0.721	0.747	0.707	0.691	0.681	0.701	4.4
Styrene	0.909	1.124	1.249	1.199	1.161	1.139	1.130	10.4
Bromoform	0.186	0.247	0.272	0.280	0.276	0.287	0.258	14.7
Isopropylbenzene	3.735	4.012	4.347	4.045	3.940	4.076	4.026	4.9
1,1,2,2-Tetrachloroethane	1.429	1.403	1.438	1.366	1.305	1.360	1.383	3.6
1,3-Dichlorobenzene	1.616	1.669	1.741	1.679	1.663	1.703	1.678	2.5
1,4-Dichlorobenzene	1.662	1.712	1.762	1.686	1.660	1.701	1.697	2.2
1,2-Dichlorobenzene	1.512	1.713	1.763	1.666	1.604	1.639	1.650	5.3
1,2-Dichloroethane-d4		0.764	0.718	0.723	0.707	0.747	0.732	3.2
Dibromofluoromethane		0.335	0.322	0.320	0.320	0.328	0.325	2
Toluene-d8		1.239	1.249	1.239	1.208	1.212	1.229	1.5
4-Bromofluorobenzene		0.404	0.410	0.431	0.415	0.412	0.414	2.5

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

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X021025W.M
Title : SW846 8260
Last Update : Tue Feb 11 03:41:08 2025
Response Via : Initial Calibration

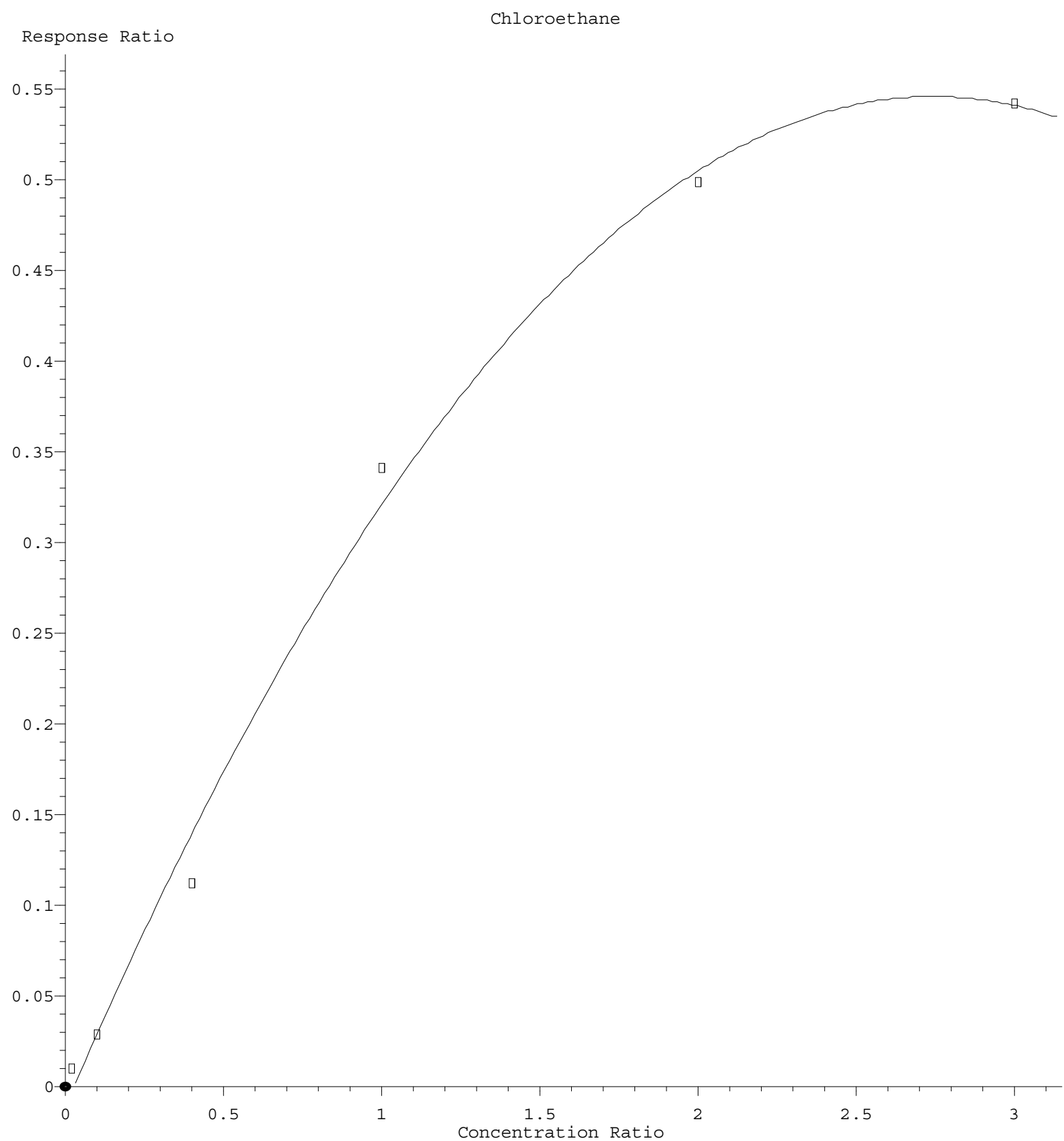
Calibration Files
1 =VX044868.D 5 =VX044869.D 20 =VX044870.D 50 =VX044871.D 100 =VX044872.D 150 =VX044873.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.723	0.669	0.716	0.700	0.706	0.693	0.701	2.71
3)	P	Chloromethane	0.958	0.860	0.862	0.843	0.805	0.793	0.854	6.89
4)	C	Vinyl Chloride	0.839	0.846	0.847	0.808	0.807	0.814	0.827	2.33#
5)	T	Bromomethane		0.248	0.252	0.249	0.242	0.246	0.247	1.44
6)	T	Chloroethane	0.500	0.288	0.280	0.341	0.249	0.181	0.307	35.36
7)	T	Trichlorofluor...	1.062	1.066	1.096	1.029	1.013	1.008	1.046	3.32
8)	T	Diethyl Ether	0.385	0.372	0.399	0.375	0.370	0.374	0.379	2.94
9)	T	1,1,2-Trichlor...	0.583	0.647	0.668	0.626	0.631	0.637	0.632	4.45
10)	T	Methyl Iodide		0.752	0.864	0.847	0.819	0.813	0.819	5.22
11)	T	Tert butyl alc...		0.148	0.138	0.136	0.128	0.129	0.136	5.92
12)	CM	1,1-Dichloroet...	0.647	0.639	0.661	0.630	0.632	0.657	0.644	2.04#
13)	T	Acrolein		0.143	0.131	0.141	0.139	0.145	0.140	3.99
14)	T	Allyl chloride	1.179	1.150	1.187	1.157	1.149	1.167	1.165	1.36
15)	T	Acrylonitrile	0.337	0.354	0.380	0.379	0.360	0.364	0.363	4.41
16)	T	Acetone	0.305	0.292	0.298	0.293	0.285	0.292	0.294	2.26
17)	T	Carbon Disulfide	1.689	1.732	1.786	1.762	1.789	1.846	1.767	3.04
18)	T	Methyl Acetate	0.882	0.901	0.926	0.946	0.922	0.995	0.928	4.22
19)	T	Methyl tert-bu...	1.941	2.065	2.130	2.046	2.011	2.110	2.050	3.36
20)	T	Methylene Chlo...	0.747	0.717	0.741	0.704	0.695	0.720	0.721	2.82
21)	T	trans-1,2-Dich...	0.608	0.622	0.657	0.640	0.633	0.644	0.634	2.74
22)	T	Diisopropyl ether	2.049	2.187	2.322	2.245	2.185	2.233	2.203	4.12
23)	T	Vinyl Acetate	1.540	1.750	1.892	1.860	1.843	1.892	1.796	7.56
24)	P	1,1-Dichloroet...	1.155	1.257	1.292	1.227	1.209	1.257	1.233	3.86
25)	T	2-Butanone	0.422	0.472	0.504	0.506	0.477	0.487	0.478	6.40
26)	T	2,2-Dichloropr...	0.957	0.982	1.000	0.952	0.959	1.017	0.978	2.71
27)	T	cis-1,2-Dichlo...	0.680	0.783	0.812	0.758	0.758	0.779	0.762	5.87
28)	T	Bromochloromet...	0.634	0.579	0.607	0.584	0.572	0.579	0.593	4.04
29)	T	Tetrahydrofuran	0.299	0.310	0.335	0.329	0.313	0.317	0.317	4.13
30)	C	Chloroform	1.167	1.209	1.268	1.169	1.153	1.208	1.196	3.53#
31)	T	Cyclohexane		1.154	1.174	1.121	1.107	1.127	1.137	2.35
32)	T	1,1,1-Trichlor...	1.014	1.003	1.051	1.005	0.984	1.028	1.014	2.26
33)	S	1,2-Dichloroet...		0.764	0.718	0.723	0.707	0.747	0.732	3.17
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.335	0.322	0.320	0.320	0.328	0.325	1.98
36)	T	1,1-Dichloropr...	0.472	0.467	0.490	0.463	0.457	0.465	0.469	2.47
37)	T	Ethyl Acetate	0.477	0.534	0.546	0.527	0.516	0.528	0.522	4.57
38)	T	Carbon Tetrach...	0.457	0.466	0.478	0.453	0.445	0.459	0.460	2.44
39)	T	Methylcyclohexane	0.509	0.571	0.667	0.622	0.634	0.635	0.606	9.36
40)	TM	Benzene	1.370	1.488	1.577	1.470	1.429	1.453	1.465	4.69
41)	T	Methacrylonitrile	0.237	0.262	0.292	0.302	0.287	0.295	0.279	8.84
42)	TM	1,2-Dichloroet...	0.417	0.465	0.502	0.472	0.462	0.482	0.467	6.08
43)	T	Isopropyl Acetate	0.755	0.782	0.899	0.876	0.858	0.885	0.842	7.05
44)	TM	Trichloroethene	0.293	0.340	0.367	0.335	0.332	0.343	0.335	7.20
45)	C	1,2-Dichloropr...	0.343	0.354	0.389	0.367	0.360	0.372	0.364	4.32#
46)	T	Dibromomethane	0.236	0.245	0.270	0.255	0.252	0.258	0.253	4.48
47)	T	Bromodichlorom...	0.428	0.481	0.514	0.500	0.500	0.513	0.489	6.60
48)	T	Methyl methacr...	0.330	0.367	0.424	0.421	0.414	0.427	0.397	10.05
49)	T	1,4-Dioxane	0.009	0.009	0.009	0.009	0.008	0.008	0.009	6.54
50)	S	Toluene-d8		1.239	1.249	1.239	1.208	1.212	1.229	1.49
51)	T	4-Methyl-2-Pen...	0.439	0.514	0.562	0.554	0.506	0.498	0.512	8.61
52)	CM	Toluene	0.776	0.872	0.957	0.898	0.866	0.864	0.872	6.74#
53)	T	t-1,3-Dichloro...	0.417	0.451	0.518	0.514	0.528	0.543	0.495	10.04
54)	T	cis-1,3-Dichlo...	0.452	0.511	0.587	0.577	0.587	0.599	0.552	10.49
55)	T	1,1,2-Trichlor...	0.307	0.342	0.362	0.341	0.331	0.329	0.335	5.44
56)	T	Ethyl methacry...	0.462	0.488	0.583	0.577	0.568	0.571	0.542	9.74

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X021025W.M

57)	T	1,3-Dichloropr...	0.531	0.586	0.641	0.605	0.579	0.578	0.587	6.13
58)	T	2-Chloroethyl ...	0.213	0.249	0.284	0.288	0.281	0.281	0.266	11.18
59)	T	2-Hexanone	0.313	0.360	0.406	0.404	0.369	0.362	0.369	9.31
60)	T	Dibromochlorom...	0.317	0.342	0.381	0.373	0.368	0.370	0.359	6.71
61)	T	1,2-Dibromoethane	0.302	0.330	0.367	0.350	0.345	0.345	0.340	6.55
62)	S	4-Bromofluorob...		0.404	0.410	0.431	0.415	0.412	0.414	2.47
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.306	0.311	0.343	0.310	0.307	0.314	0.315	4.43
65)	PM	Chlorobenzene	0.969	1.093	1.140	1.096	1.071	1.076	1.074	5.32
66)	T	1,1,1,2-Tetrac...	0.302	0.338	0.365	0.354	0.355	0.360	0.346	6.76
67)	C	Ethyl Benzene	1.690	1.873	2.021	1.935	1.923	1.929	1.895	5.87#
68)	T	m/p-Xylenes	0.616	0.700	0.754	0.724	0.706	0.694	0.699	6.58
69)	T	o-Xylene	0.661	0.721	0.747	0.707	0.691	0.681	0.701	4.36
70)	T	Styrene	0.909	1.124	1.249	1.199	1.161	1.139	1.130	10.38
71)	P	Bromoform	0.186	0.247	0.272	0.280	0.276	0.287	0.258	14.69
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.735	4.012	4.347	4.045	3.940	4.076	4.026	4.95
74)	T	N-amyl acetate	1.431	1.744	1.915	1.902	1.889	2.051	1.822	11.80
75)	P	1,1,2,2-Tetrac...	1.429	1.403	1.438	1.366	1.305	1.360	1.383	3.61
76)	T	1,2,3-Trichlor...	1.046	1.153	1.141	1.106	1.085	1.120	1.109	3.53
77)	T	Bromobenzene	0.847	0.920	0.978	0.911	0.897	0.923	0.913	4.65
78)	T	n-propylbenzene	4.049	4.600	4.974	4.723	4.699	4.837	4.647	6.88
79)	T	2-Chlorotoluene	2.859	2.860	3.034	2.842	2.720	2.820	2.856	3.56
80)	T	1,3,5-Trimethy...	2.981	3.326	3.543	3.319	3.201	3.233	3.267	5.64
81)	T	trans-1,4-Dich...		0.346	0.417	0.437	0.457	0.498	0.431	13.01
82)	T	4-Chlorotoluene	2.958	3.156	3.320	3.193	3.116	3.214	3.160	3.81
83)	T	tert-Butylbenzene	3.097	3.350	3.539	3.312	3.236	3.296	3.305	4.38
84)	T	1,2,4-Trimethy...	2.687	3.252	3.535	3.359	3.220	3.295	3.225	8.87
85)	T	sec-Butylbenzene	3.692	4.025	4.421	4.146	4.102	4.169	4.093	5.80
86)	T	p-Isopropyltol...	2.844	3.229	3.546	3.402	3.325	3.401	3.291	7.37
87)	T	1,3-Dichlorobe...	1.616	1.669	1.741	1.679	1.663	1.703	1.678	2.49
88)	T	1,4-Dichlorobe...	1.662	1.712	1.762	1.686	1.660	1.701	1.697	2.22
89)	T	n-Butylbenzene	2.138	2.696	3.087	3.105	3.194	3.251	2.912	14.63
90)	T	Hexachloroethane	0.533	0.589	0.629	0.615	0.643	0.689	0.616	8.53
91)	T	1,2-Dichlorobe...	1.512	1.713	1.763	1.666	1.604	1.639	1.650	5.30
92)	T	1,2-Dibromo-3-...	0.202	0.236	0.268	0.258	0.261	0.289	0.252	11.87
93)	T	1,2,4-Trichlor...	0.860	0.934	1.013	1.013	1.057	1.112	0.998	8.98
94)	T	Hexachlorobuta...	0.383	0.376	0.416	0.383	0.408	0.411	0.396	4.36
95)	T	Naphthalene	2.824	3.432	3.879	3.752	3.771	3.991	3.608	11.84
96)	T	1,2,3-Trichlor...	0.858	0.952	1.042	1.031	1.043	1.109	1.006	8.75

(#) = Out of Range



R = -7.391e-002 A*A + 4.057e-001 A - 1.083e-002
Coef of Det (r^2) = 0.995138 Curve Fit: Quadratic
Method Name: Z:\corpsrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Calibration Table Last Updated: Tue Feb 11 03:41:08 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044868.D
Acq On : 10 Feb 2025 10:25
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 03:33:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	134134	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	254149	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	218570	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	90733	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	1.160	85	1939m	1.031	ug/l		
3) Chloromethane	1.307	50	2571	1.123	ug/l		94
4) Vinyl Chloride	1.374	62	2252	1.015	ug/l		96
6) Chloroethane	1.666	64	1341	2.592	ug/l		91
7) Trichlorofluoromethane	1.874	101	2849	1.016	ug/l		88
8) Diethyl Ether	2.130	74	1032	1.014	ug/l	#	37
9) 1,1,2-Trichlorotrifluo...	2.325	101	1564	0.923	ug/l	#	88
12) 1,1-Dichloroethene	2.307	96	1737	1.005	ug/l		85
14) Allyl chloride	2.654	41	3164	1.013	ug/l		90
15) Acrylonitrile	3.069	53	4527	4.655	ug/l		95
16) Acetone	2.380	43	4095	5.188	ug/l		92
17) Carbon Disulfide	2.502	76	4531	0.956	ug/l	#	88
18) Methyl Acetate	2.697	43	2367	0.950	ug/l		95
19) Methyl tert-butyl Ether	3.117	73	5206	0.946	ug/l	#	87
20) Methylene Chloride	2.782	84	2005	1.037	ug/l	#	90
21) trans-1,2-Dichloroethene	3.087	96	1631	0.959	ug/l		96
22) Diisopropyl ether	3.764	45	5496	0.930	ug/l	#	75
23) Vinyl Acetate	3.727	43	20663	4.288	ug/l		99
24) 1,1-Dichloroethane	3.605	63	3099	0.937	ug/l	#	93
25) 2-Butanone	4.587	43	5660	4.416	ug/l		93
26) 2,2-Dichloropropane	4.471	77	2566	0.978	ug/l		76
27) cis-1,2-Dichloroethene	4.489	96	1825	0.893	ug/l		91
28) Bromochloromethane	4.910	49	1702	1.071	ug/l	#	75
29) Tetrahydrofuran	5.026	42	4014	4.716	ug/l		99
30) Chloroform	5.093	83	3132	0.976	ug/l		94
32) 1,1,1-Trichloroethane	5.379	97	2721	1.000	ug/l	#	50
36) 1,1-Dichloropropene	5.684	75	2399	1.006	ug/l		94
37) Ethyl Acetate	4.721	43	2426m	0.915	ug/l		
38) Carbon Tetrachloride	5.666	117	2322	0.994	ug/l	#	74
39) Methylcyclohexane	7.379	83	2589	0.840	ug/l		96
40) Benzene	6.038	78	6963	0.935	ug/l		94
41) Methacrylonitrile	4.958	41	1205m	0.849	ug/l		
42) 1,2-Dichloroethane	6.099	62	2120	0.894	ug/l		84
43) Isopropyl Acetate	6.355	43	3839	0.897	ug/l	#	88
44) Trichloroethene	7.135	130	1487	0.874	ug/l		76
45) 1,2-Dichloropropane	7.440	63	1746	0.943	ug/l	#	86

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044868.D
Acq On : 10 Feb 2025 10:25
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 11 03:33:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.592	93	1202	0.936	ug/l		95
47) Bromodichloromethane	7.818	83	2176	0.875	ug/l		93
48) Methyl methacrylate	7.720	41	1675	0.830	ug/l		92
49) 1,4-Dioxane	7.696	88	867	20.015	ug/l	#	85
51) 4-Methyl-2-Pentanone	8.574	43	11169	4.290	ug/l		96
52) Toluene	8.714	92	3943	0.889	ug/l		100
53) t-1,3-Dichloropropene	8.994	75	2119	0.842	ug/l		90
54) cis-1,3-Dichloropropene	8.366	75	2300	0.820	ug/l	#	86
55) 1,1,2-Trichloroethane	9.153	97	1558	0.914	ug/l	#	86
56) Ethyl methacrylate	9.128	69	2346	0.852	ug/l	#	84
57) 1,3-Dichloropropane	9.311	76	2699	0.905	ug/l		95
58) 2-Chloroethyl Vinyl ether	8.251	63	5401	3.996	ug/l		97
59) 2-Hexanone	9.439	43	7952	4.240	ug/l		95
60) Dibromochloromethane	9.525	129	1613	0.885	ug/l		96
61) 1,2-Dibromoethane	9.610	107	1534	0.888	ug/l		97
64) Tetrachloroethene	9.275	164	1339	0.971	ug/l		91
65) Chlorobenzene	10.080	112	4234	0.902	ug/l		93
66) 1,1,1,2-Tetrachloroethane	10.165	131	1320	0.874	ug/l	#	64
67) Ethyl Benzene	10.195	91	7388	0.892	ug/l		98
68) m/p-Xylenes	10.299	106	5387	1.763	ug/l		100
69) o-Xylene	10.640	106	2889	0.942	ug/l		97
70) Styrene	10.659	104	3974	0.804	ug/l		97
71) Bromoform	10.799	173	813	0.721	ug/l	#	95
73) Isopropylbenzene	10.964	105	6778	0.928	ug/l		99
74) N-amyl acetate	10.848	43	2596	0.785	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.207	83	2594	1.033	ug/l		94
76) 1,2,3-Trichloropropane	11.238	75	1898m	0.943	ug/l		
77) Bromobenzene	11.201	156	1537	0.928	ug/l		90
78) n-propylbenzene	11.305	91	7347	0.871	ug/l		98
79) 2-Chlorotoluene	11.366	91	5188	1.001	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	5410	0.913	ug/l		98
82) 4-Chlorotoluene	11.457	91	5367	0.936	ug/l		99
83) tert-Butylbenzene	11.713	119	5620	0.937	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	4876	0.833	ug/l		88
85) sec-Butylbenzene	11.890	105	6700	0.902	ug/l		99
86) p-Isopropyltoluene	12.006	119	5161	0.864	ug/l		90
87) 1,3-Dichlorobenzene	11.969	146	2933	0.963	ug/l		97
88) 1,4-Dichlorobenzene	12.043	146	3016m	0.979	ug/l		
89) n-Butylbenzene	12.335	91	3880	0.734	ug/l		93
90) Hexachloroethane	12.536	117	968	0.866	ug/l		98
91) 1,2-Dichlorobenzene	12.341	146	2744	0.917	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	12.945	75	367	0.801	ug/l		95
93) 1,2,4-Trichlorobenzene	13.591	180	1560	0.861	ug/l		86
94) Hexachlorobutadiene	13.725	225	695	0.966	ug/l		99
95) Naphthalene	13.780	128	5125	0.783	ug/l		99
96) 1,2,3-Trichlorobenzene	13.969	180	1557	0.853	ug/l		93

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

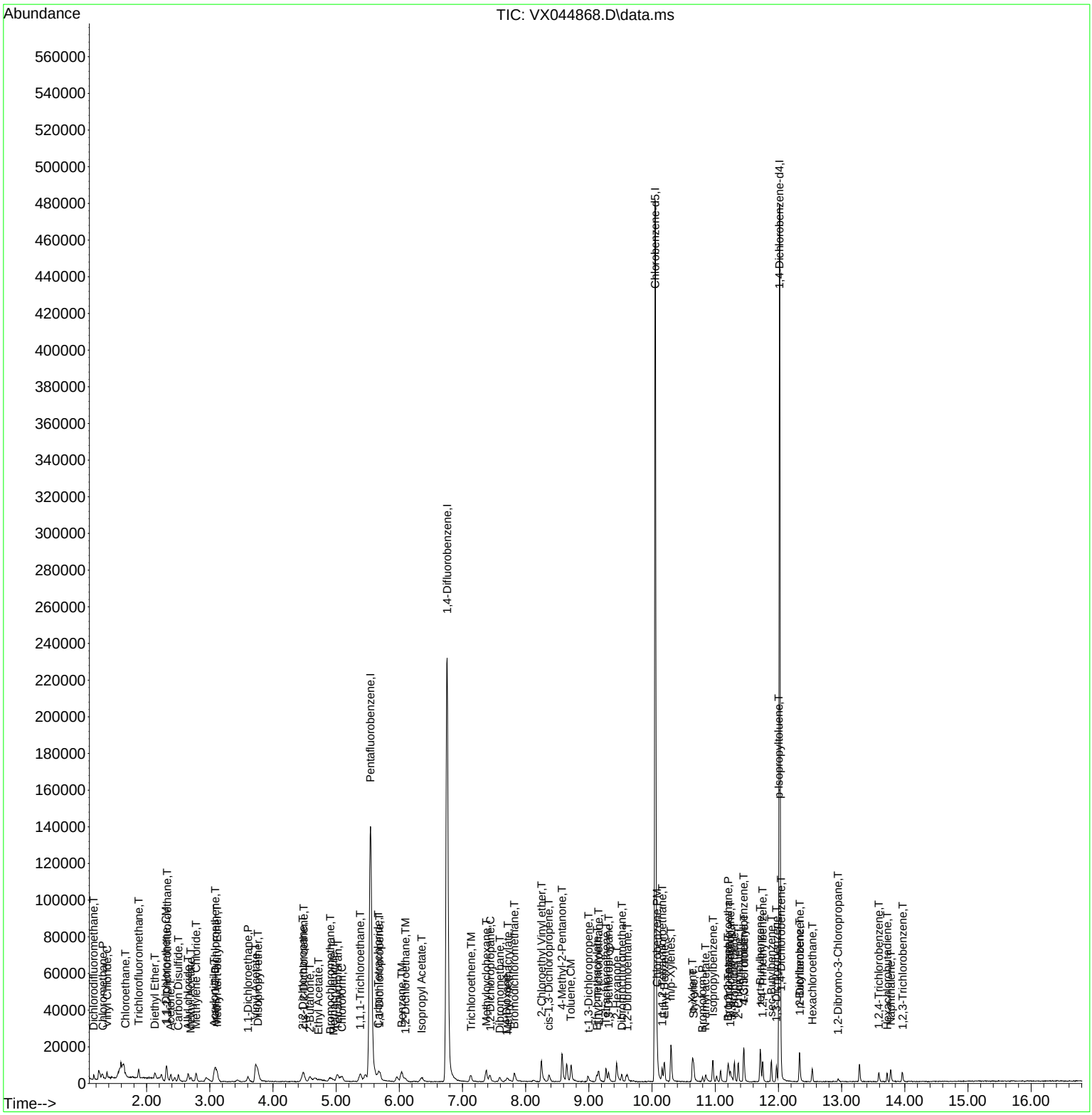
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044868.D
Acq On : 10 Feb 2025 10:25
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

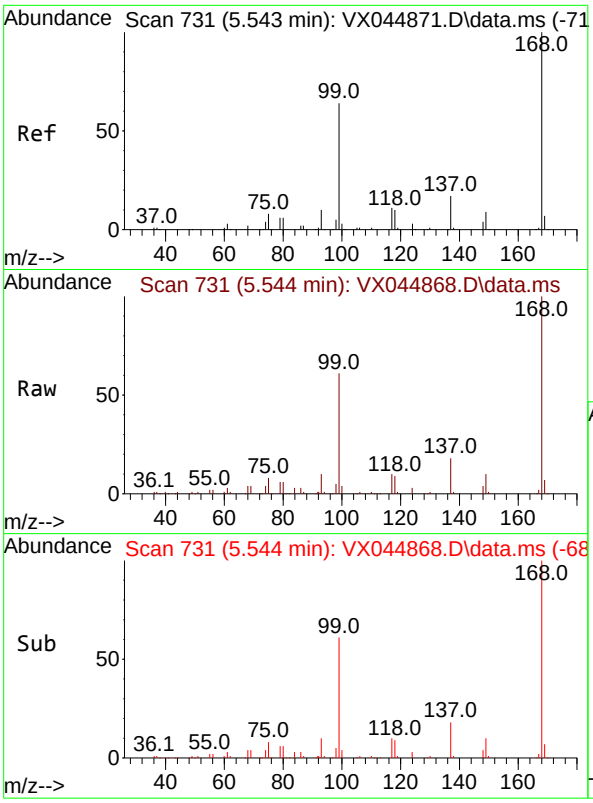
Quant Time: Feb 11 03:33:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

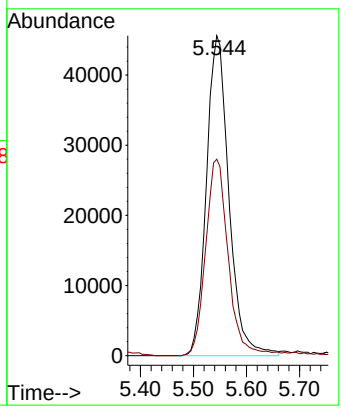




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:168 Resp: 13413

Ion	Ratio	Lower	Upper
168	100		
99	61.4	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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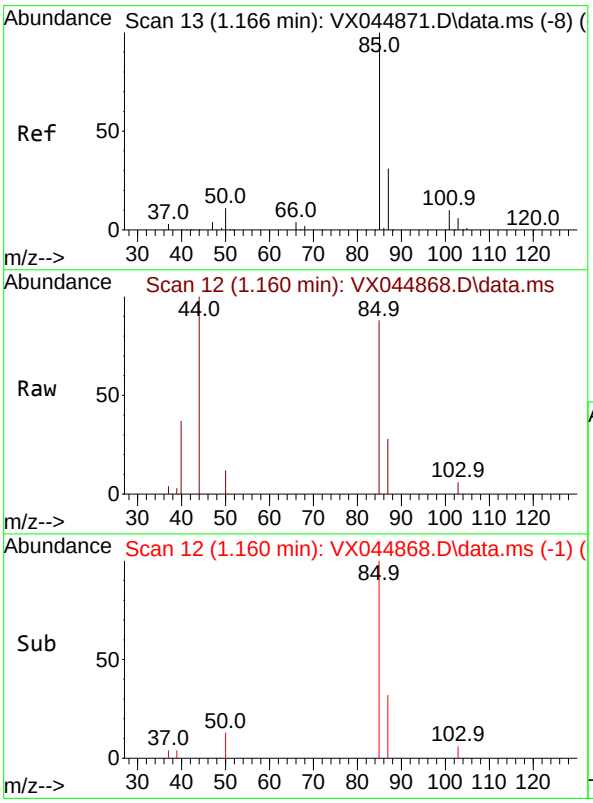
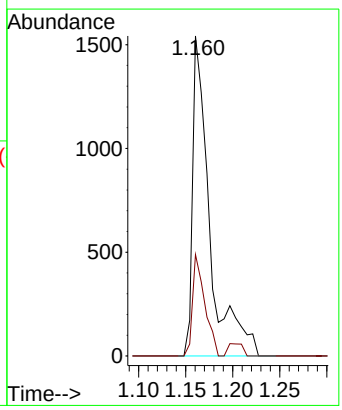
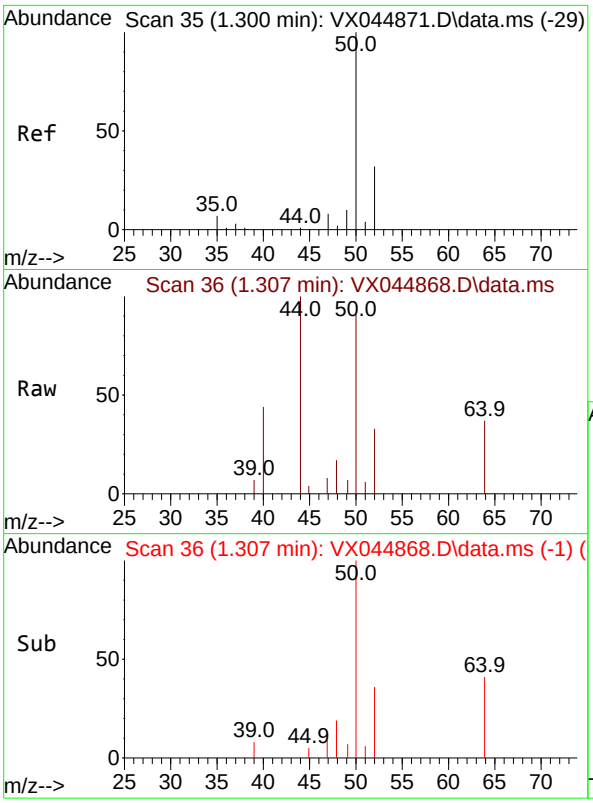


#2
Dichlorodifluoromethane
Concen: 1.031 ug/l m
RT: 1.160 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 85 Resp: 1939

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3

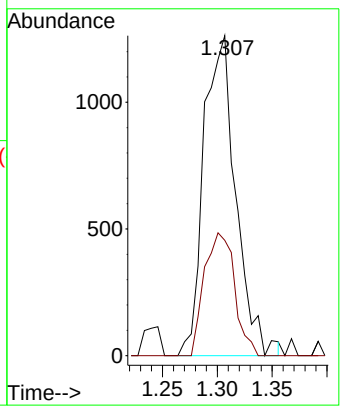




#3
Chloromethane
Concen: 1.123 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 50 Resp: 257

Ion	Ratio	Lower	Upper
50	100		
52	36.0	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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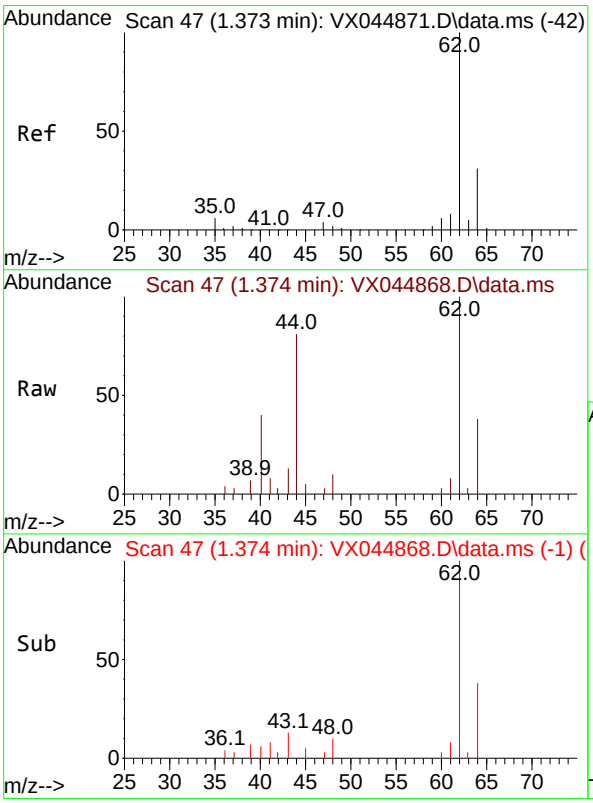
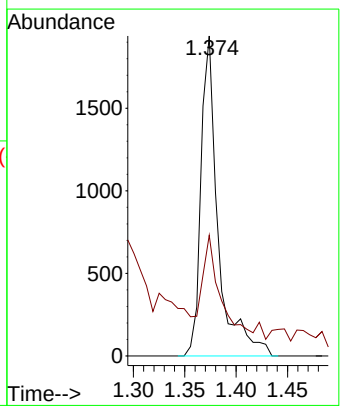
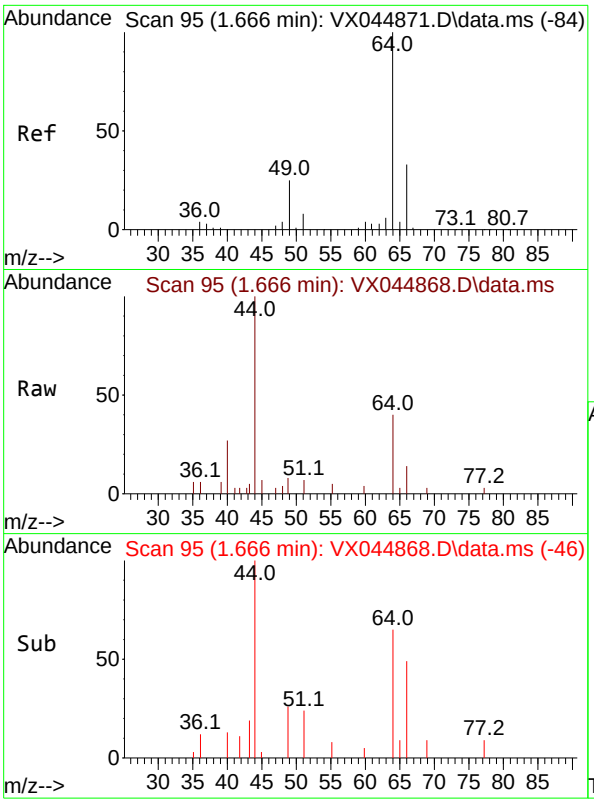


#4
Vinyl Chloride
Concen: 1.015 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 2252

Ion	Ratio	Lower	Upper
62	100		
64	29.4	25.4	38.0

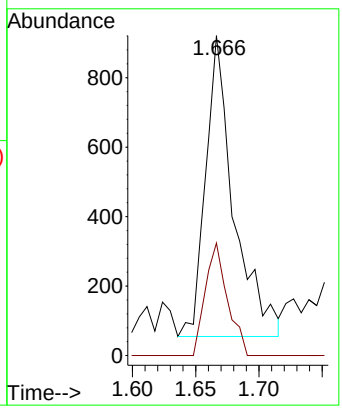




#6
Chloroethane
Concen: 2.592 ug/l
RT: 1.666 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 64 Resp: 134

Ion	Ratio	Lower	Upper
64	100		
66	37.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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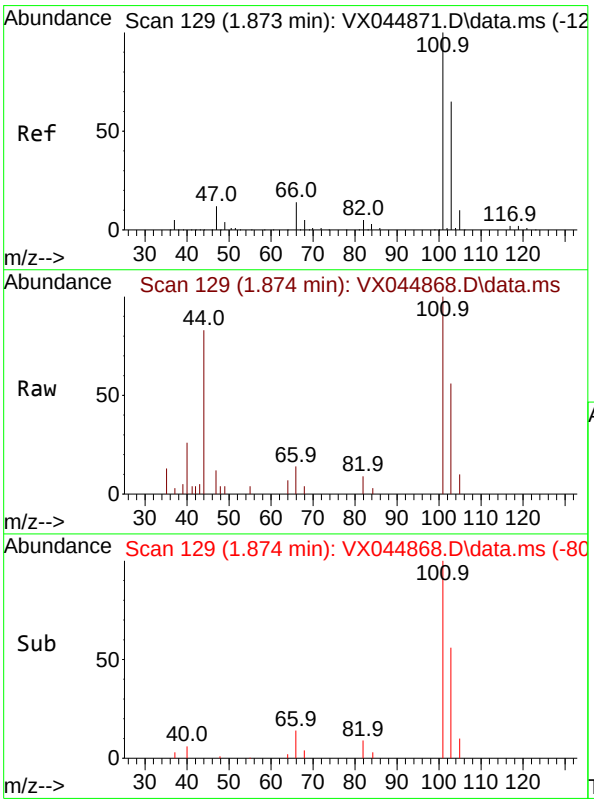
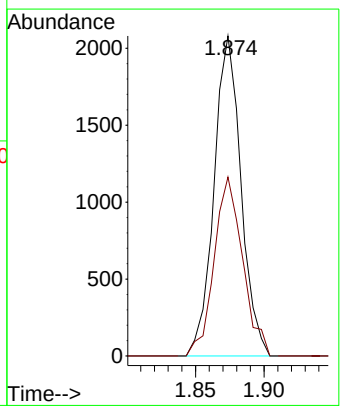
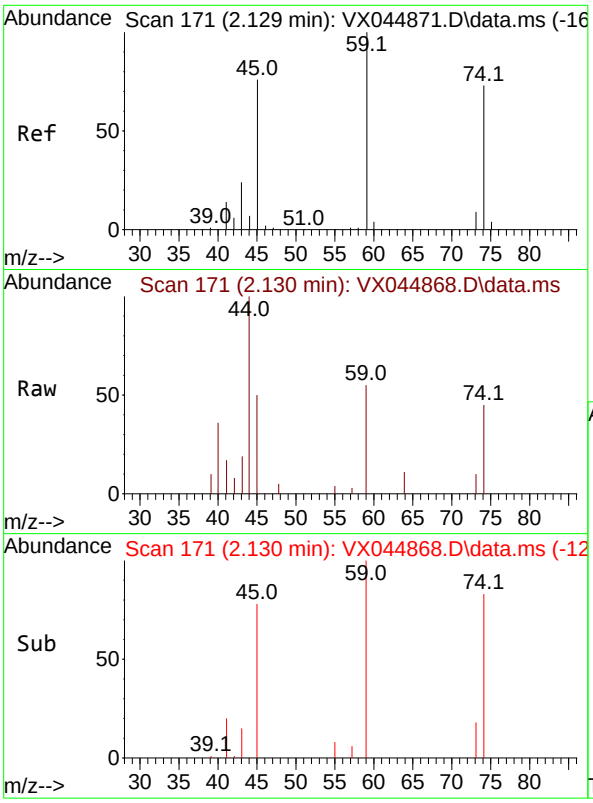


#7
Trichlorofluoromethane
Concen: 1.016 ug/l
RT: 1.874 min Scan# 129
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:101 Resp: 2849

Ion	Ratio	Lower	Upper
101	100		
103	55.9	52.4	78.6

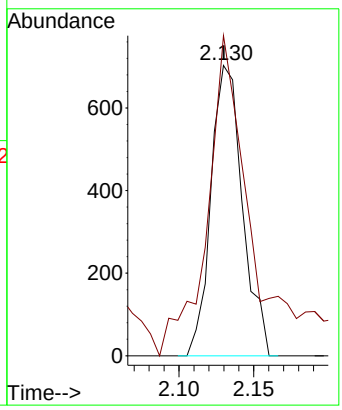




#8
Diethyl Ether
Concen: 1.014 ug/l
RT: 2.130 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 74 Resp: 103

Ion	Ratio	Lower	Upper
74	100		
45	166.1	51.1	153.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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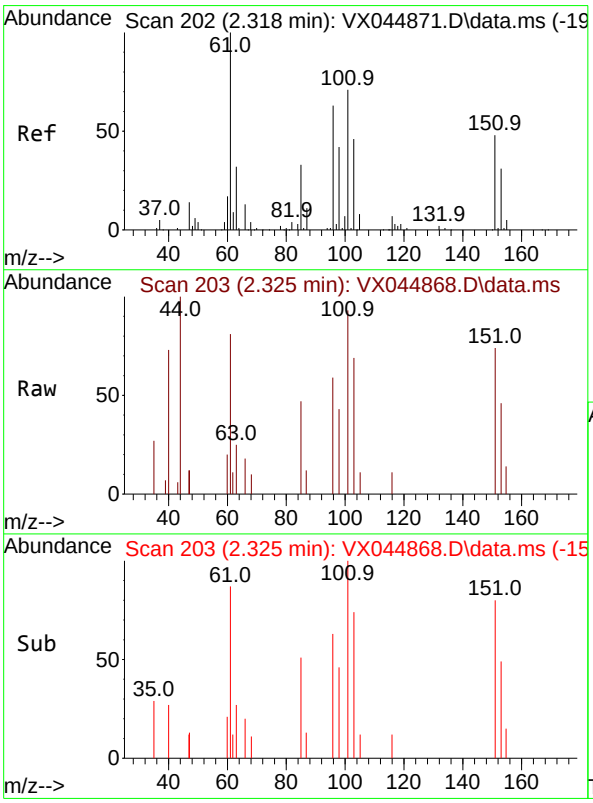
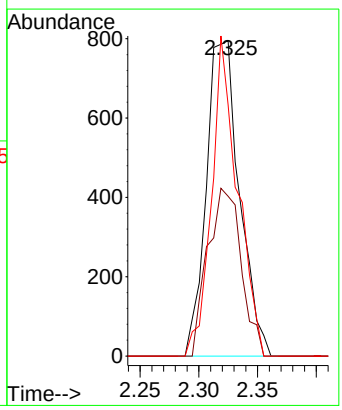
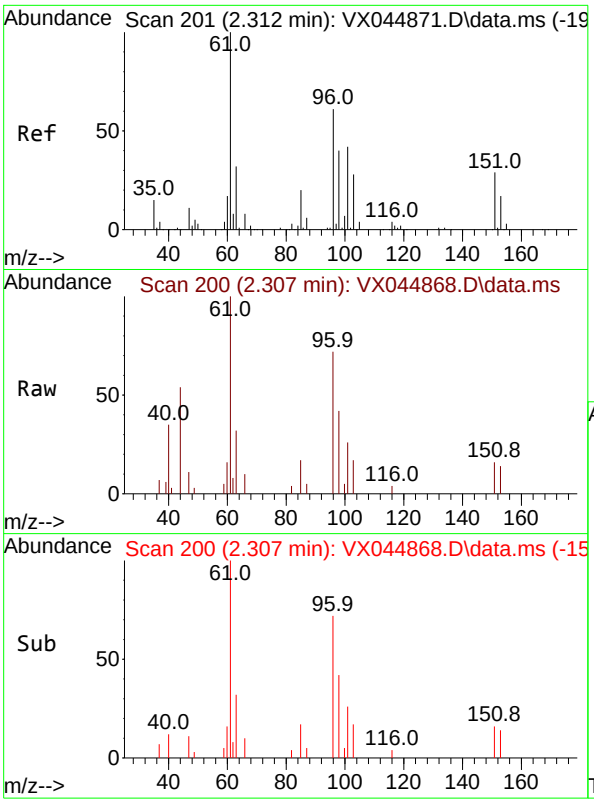


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.923 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:101 Resp: 1564

Ion	Ratio	Lower	Upper
101	100		
85	53.6	35.7	53.5#
151	79.3	56.0	84.0

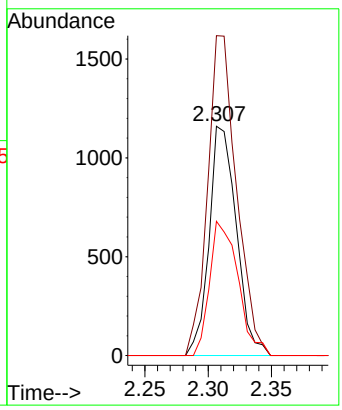




#12
1,1-Dichloroethene
Concen: 1.005 ug/l
RT: 2.307 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 96 Resp: 173

Ion	Ratio	Lower	Upper
96	100		
61	139.5	130.2	195.4
98	58.5	52.2	78.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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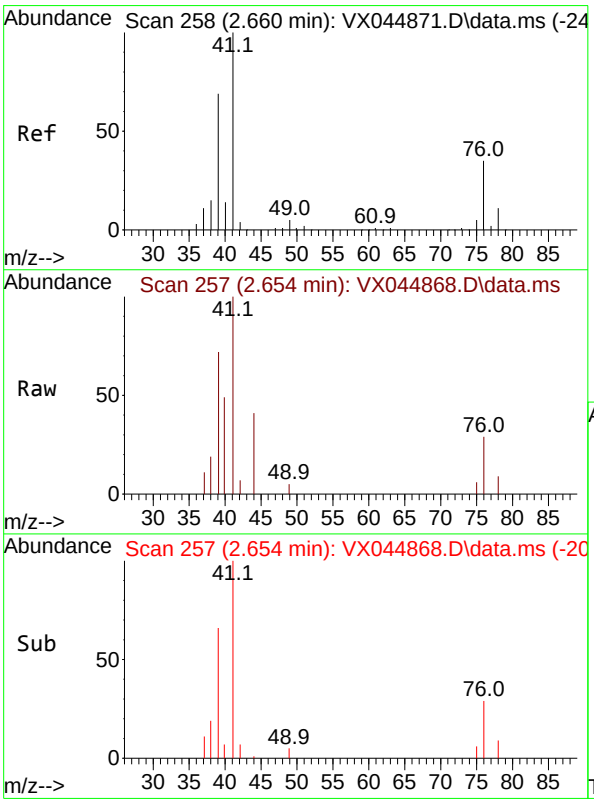
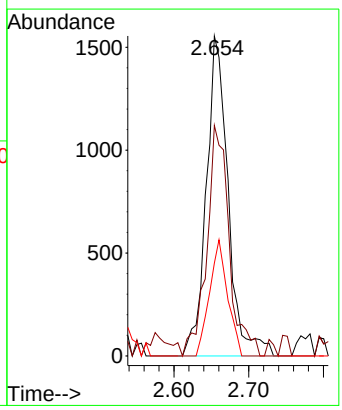
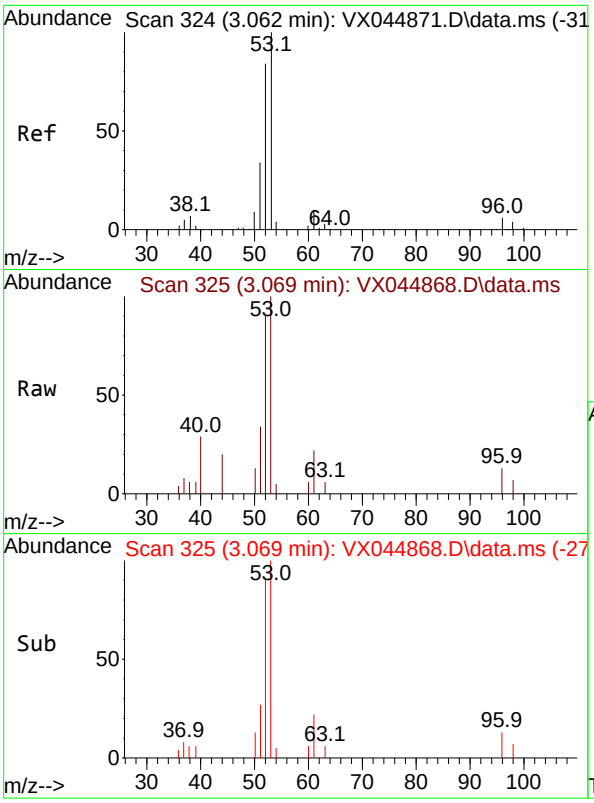


#14
Allyl chloride
Concen: 1.013 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 3164

Ion	Ratio	Lower	Upper
41	100		
39	73.5	51.4	77.2
76	29.9	27.0	40.4

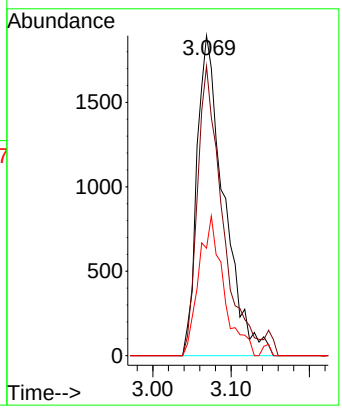




#15
Acrylonitrile
Concen: 4.655 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 53 Resp: 452

Ion	Ratio	Lower	Upper
53	100		
52	84.7	65.0	97.6
51	40.0	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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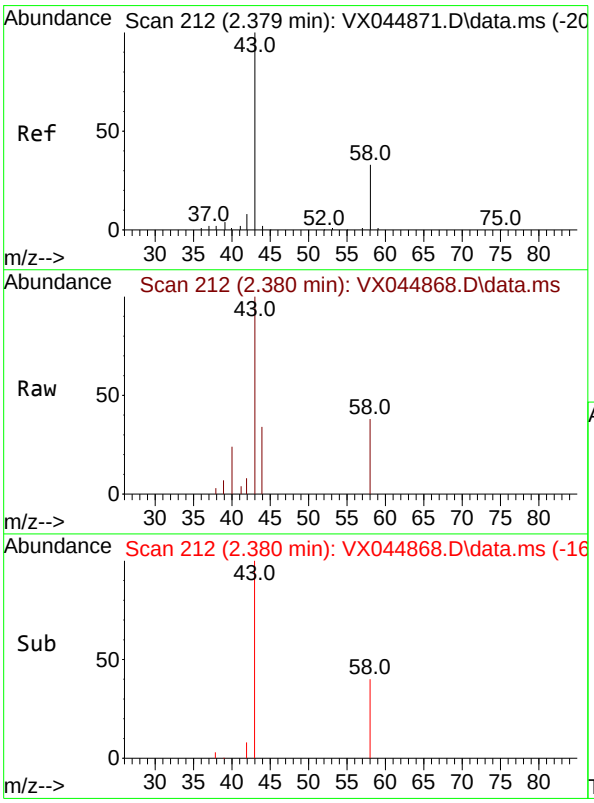
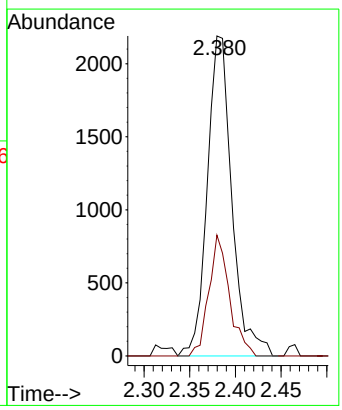
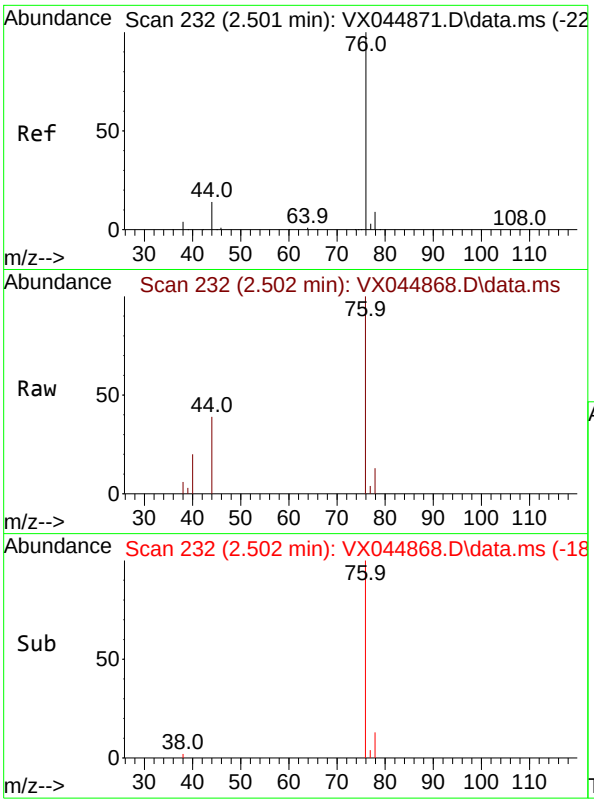


#16
Acetone
Concen: 5.188 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 4095

Ion	Ratio	Lower	Upper
43	100		
58	37.8	26.5	39.7

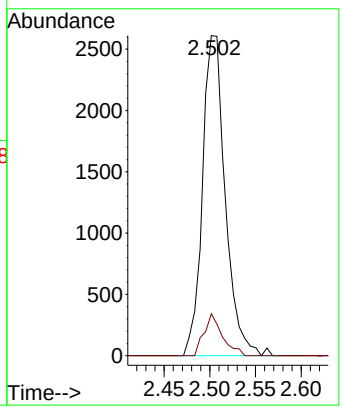




#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 76 Resp: 453

Ion	Ratio	Lower	Upper
76	100		
78	13.1	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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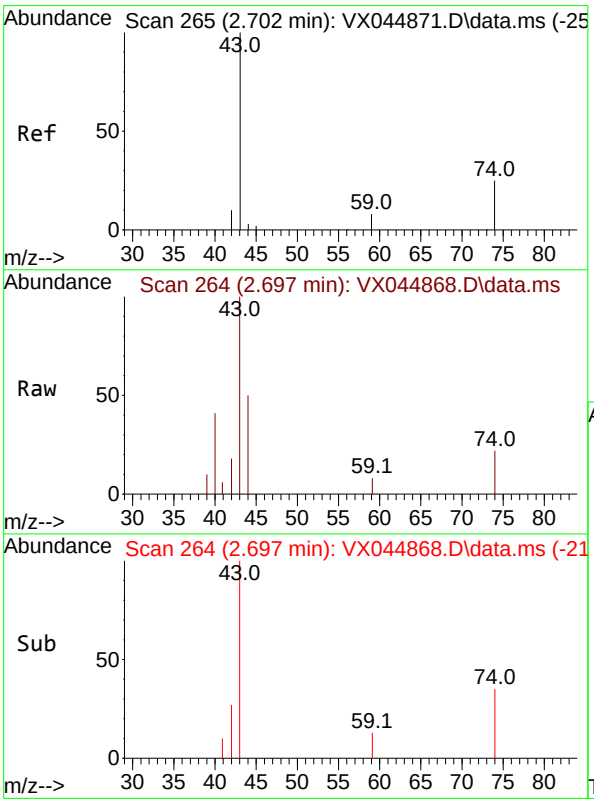
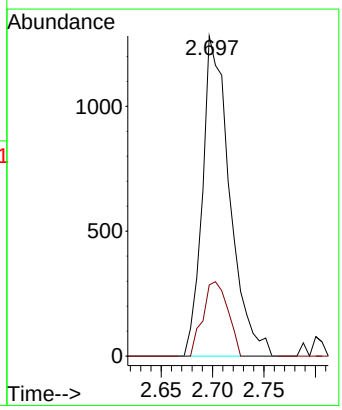
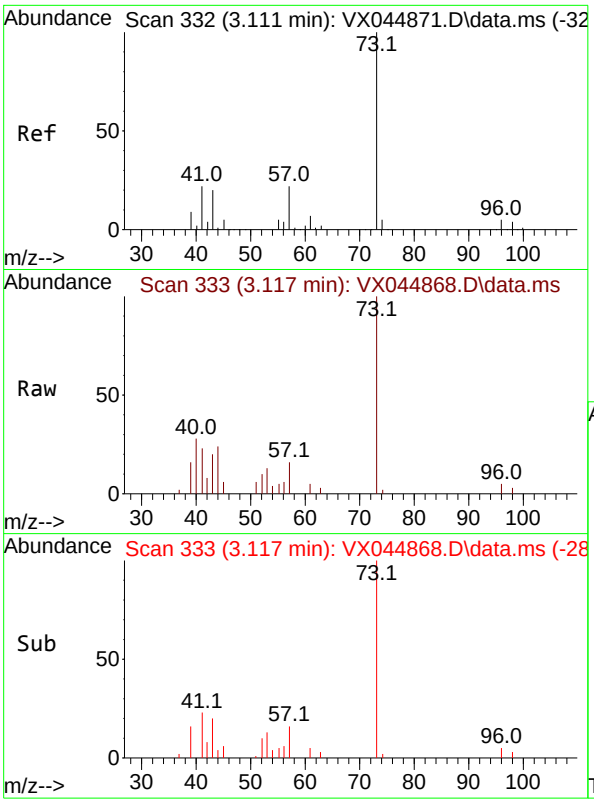


#18
Methyl Acetate
Concen: 0.950 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2367

Ion	Ratio	Lower	Upper
43	100		
74	21.3	18.9	28.3





#19
Methyl tert-butyl Ether
Concen: 0.946 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 73 Resp: 520

Ion	Ratio	Lower	Upper
73	100		
57	16.4	17.9	26.9#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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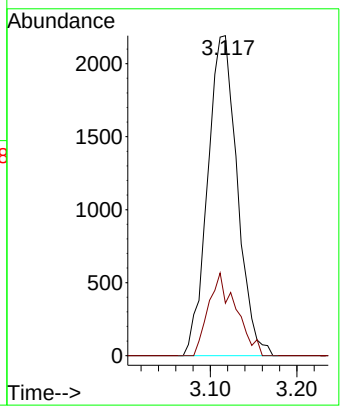
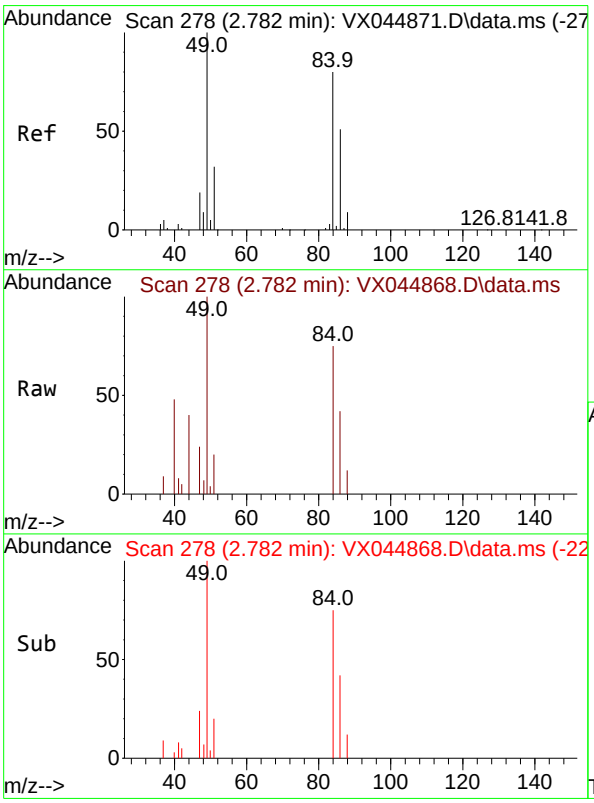
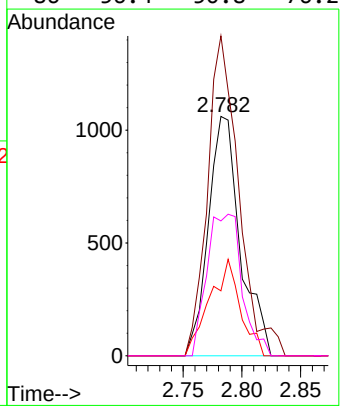


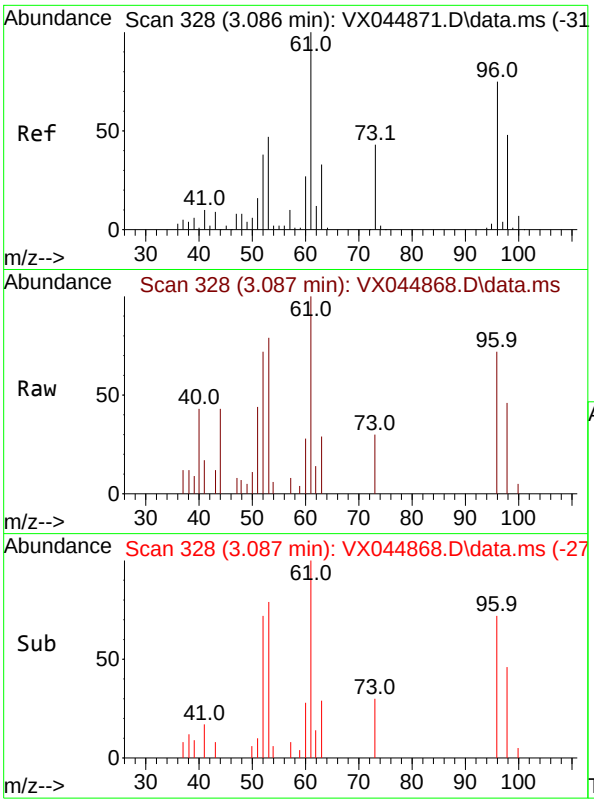


#20
Methylene Chloride
Concen: 1.037 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 84 Resp: 2005

Ion	Ratio	Lower	Upper
84	100		
49	133.6	100.1	150.1
51	27.1	31.7	47.5#
86	56.4	50.8	76.2

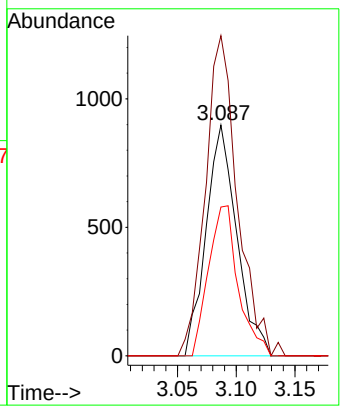




#21
trans-1,2-Dichloroethene
Concen: 0.959 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 96 Resp: 163

Ion	Ratio	Lower	Upper
96	100		
61	138.8	106.0	159.0
98	64.5	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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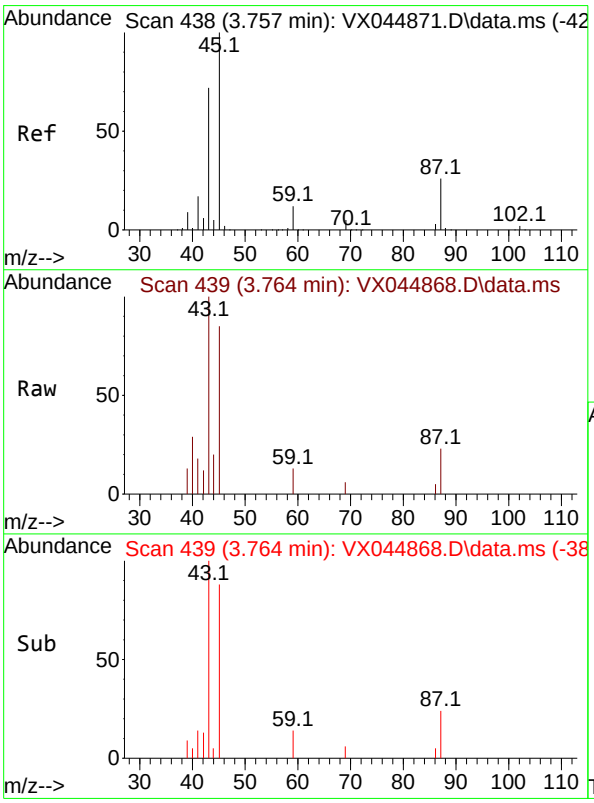
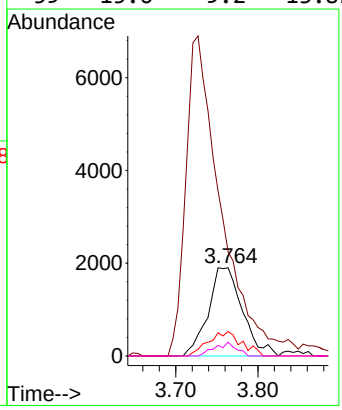
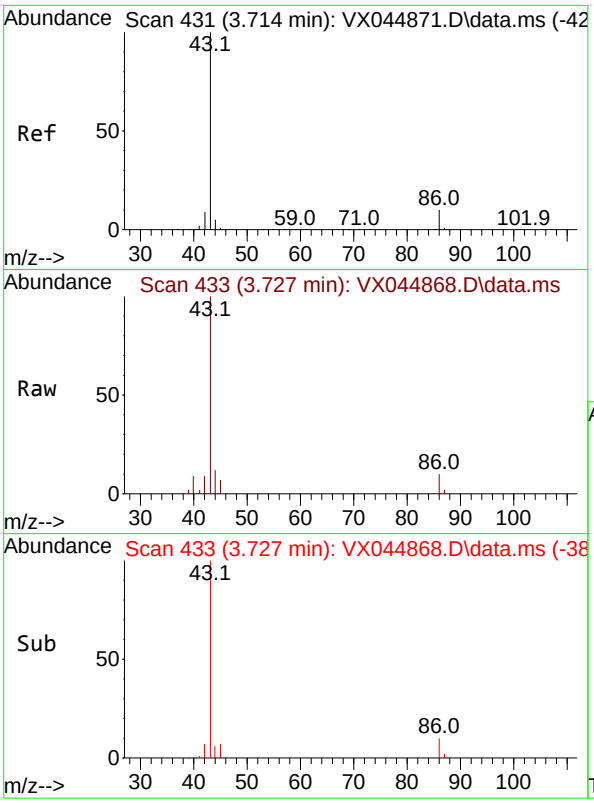


#22
Diisopropyl ether
Concen: 0.930 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 45 Resp: 5496

Ion	Ratio	Lower	Upper
45	100		
43	101.2	58.0	87.0#
87	27.8	20.7	31.1
59	15.6	9.2	13.8#





#23
Vinyl Acetate
Concen: 4.288 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2066

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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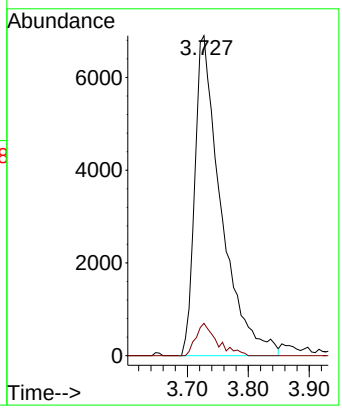
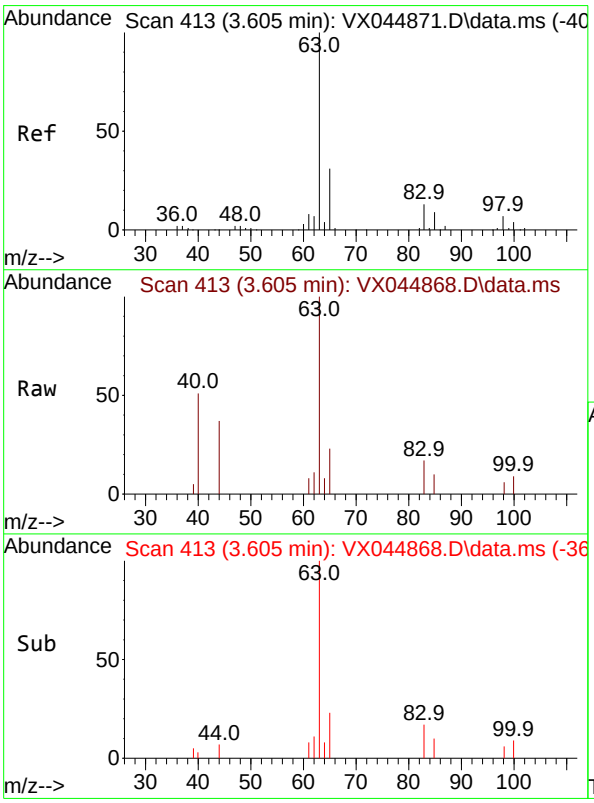
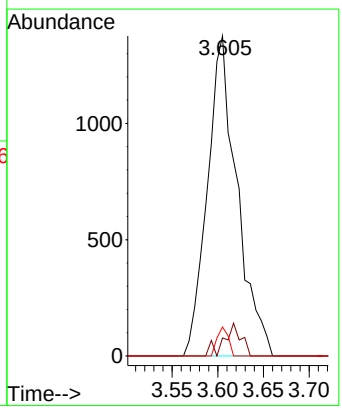


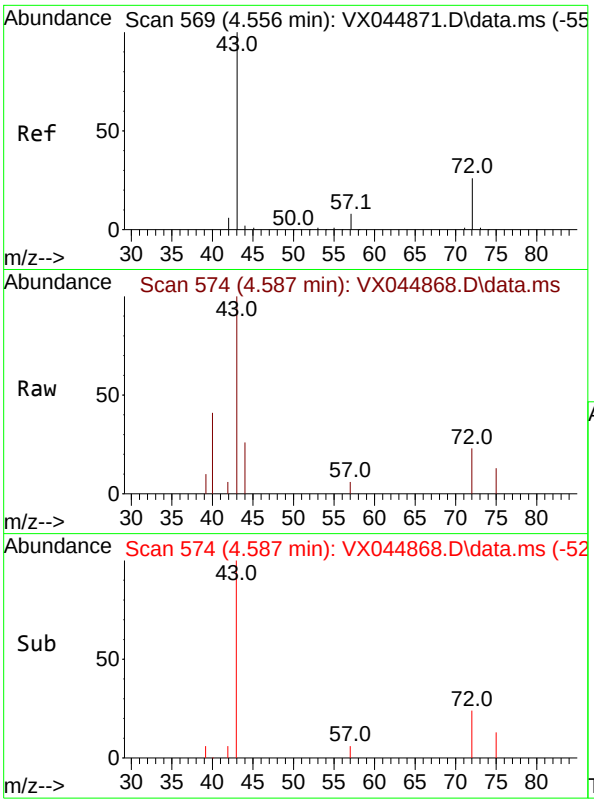


#24
1,1-Dichloroethane
Concen: 0.937 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 3099

Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.3	9.9
100	9.1	2.1	6.5#

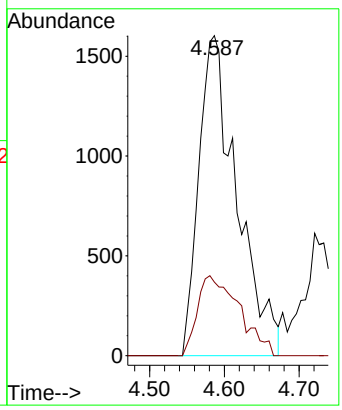




#25
2-Butanone
Concen: 4.416 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 566

Ion	Ratio	Lower	Upper
43	100		
72	23.0	21.2	31.8



Instrument :
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ClientSampleId :
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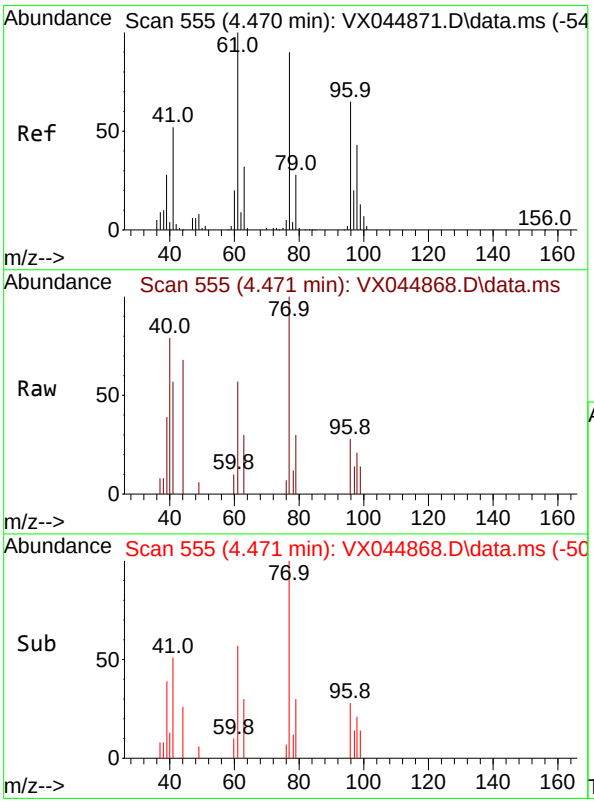
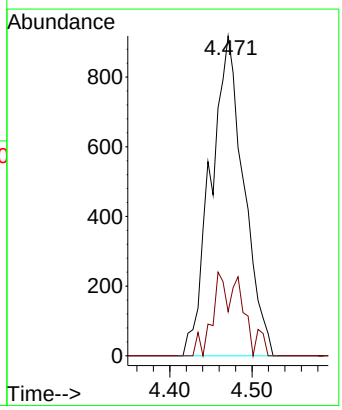
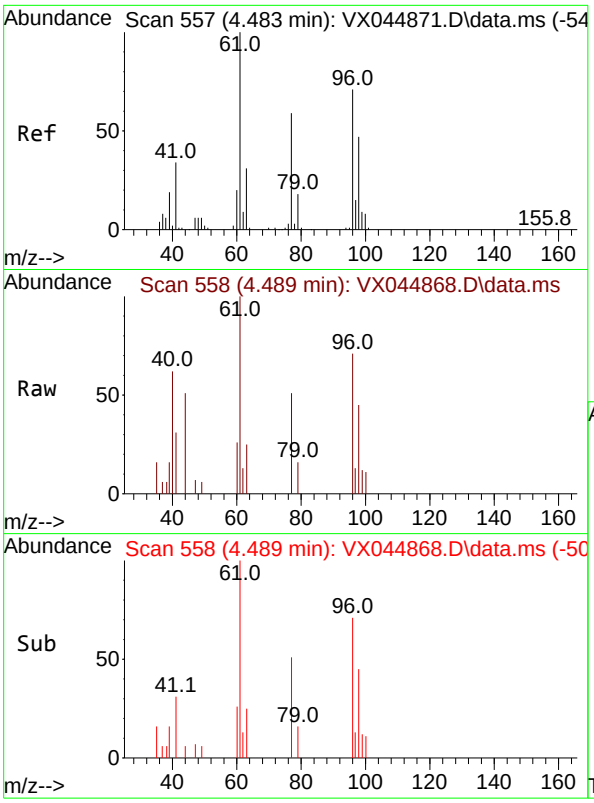


#26
2,2-Dichloropropane
Concen: 0.978 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 77 Resp: 2566

Ion	Ratio	Lower	Upper
77	100		
97	11.8	11.8	35.3

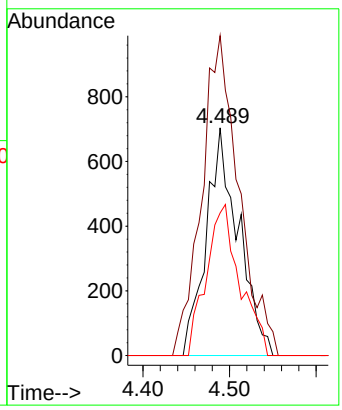




#27
cis-1,2-Dichloroethene
Concen: 0.893 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 96 Resp: 182

Ion	Ratio	Lower	Upper
96	100		
61	161.6	0.0	294.0
98	68.9	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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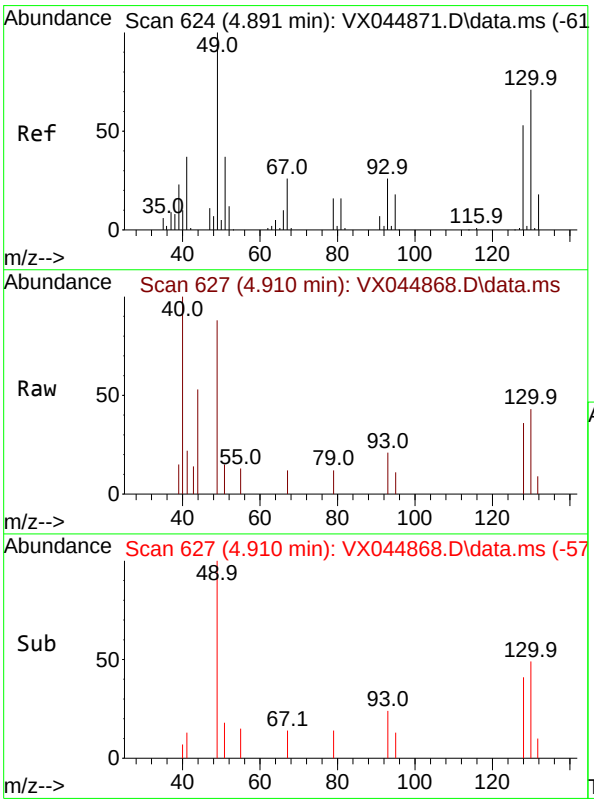
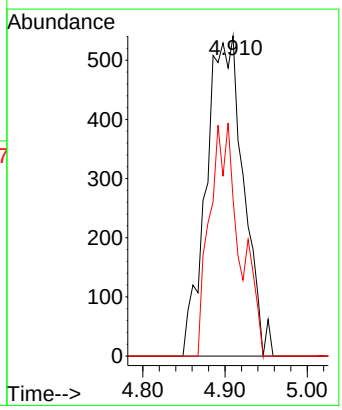
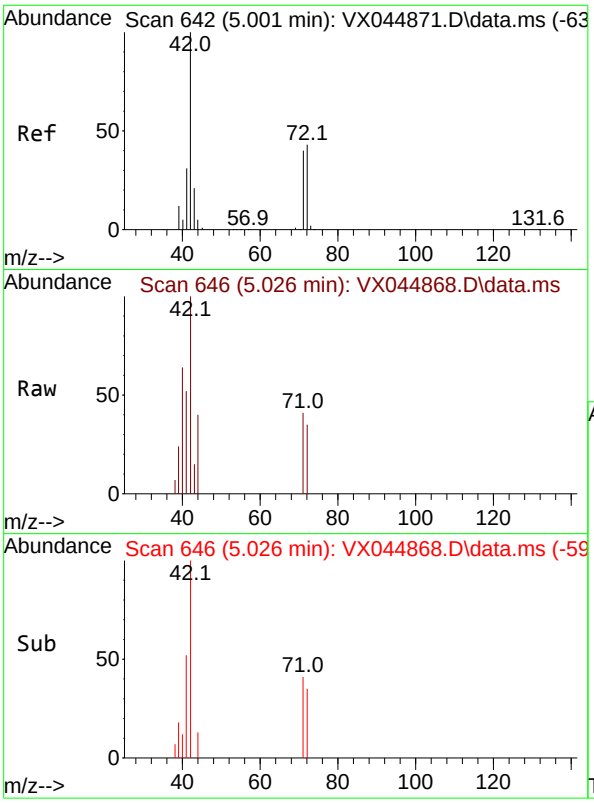


#28
Bromochloromethane
Concen: 1.071 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 49 Resp: 1702

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	49.6	56.7	85.1#

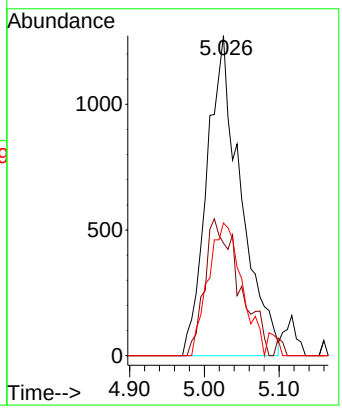




#29
Tetrahydrofuran
Concen: 4.716 ug/l
RT: 5.026 min Scan# 64
Delta R.T. 0.025 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 42 Resp: 401

Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.0	52.4
71	41.3	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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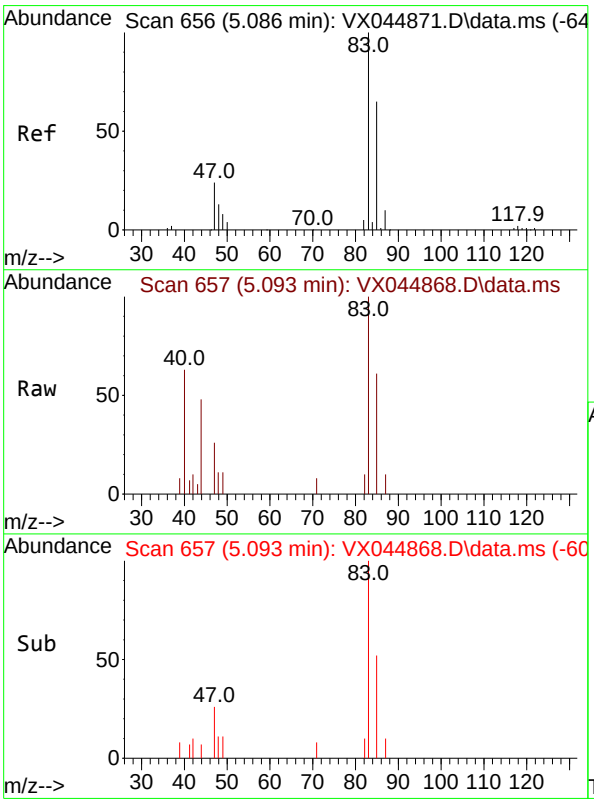
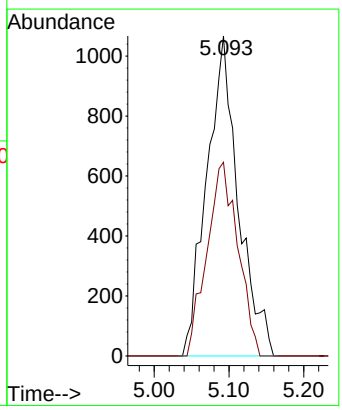
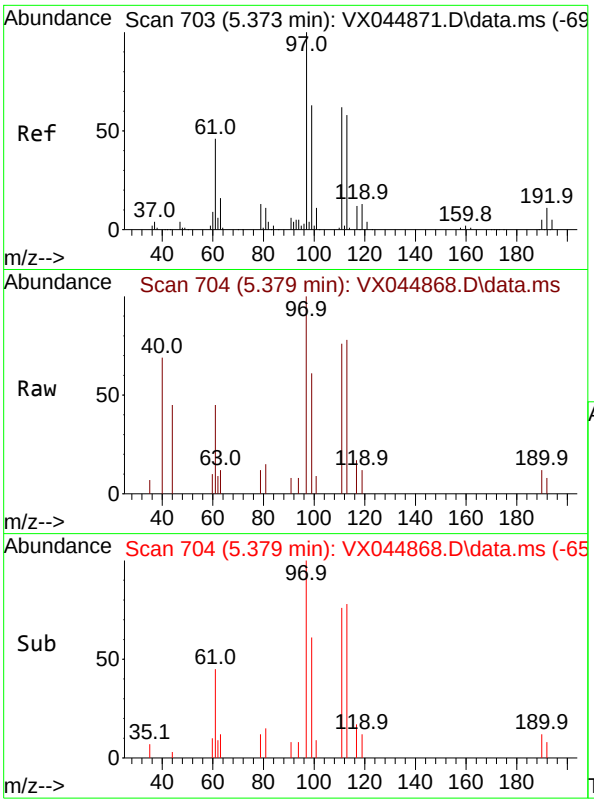


#30
Chloroform
Concen: 0.976 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 3132

Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.1	78.1





#32
1,1,1-Trichloroethane
Concen: 1.000 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 97 Resp: 272

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6
61	42.2	36.6	55.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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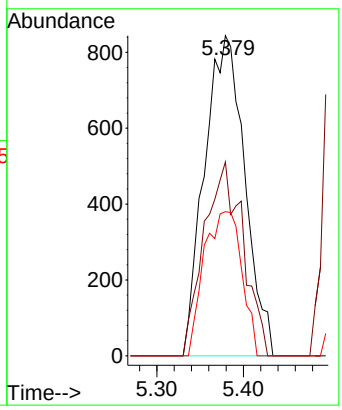
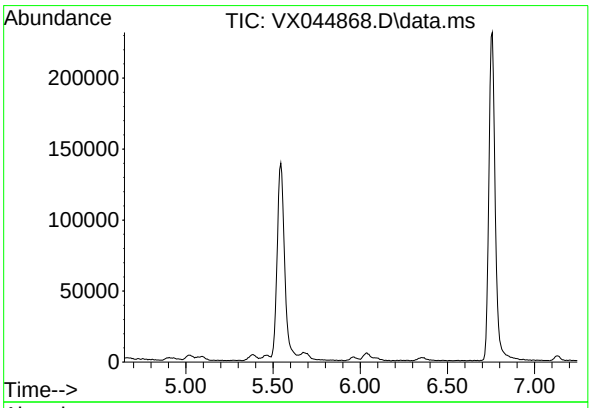


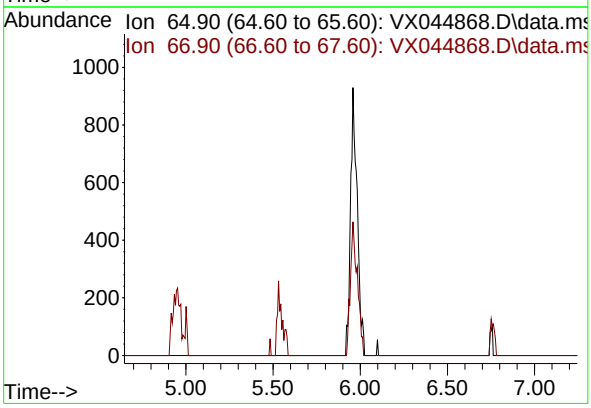


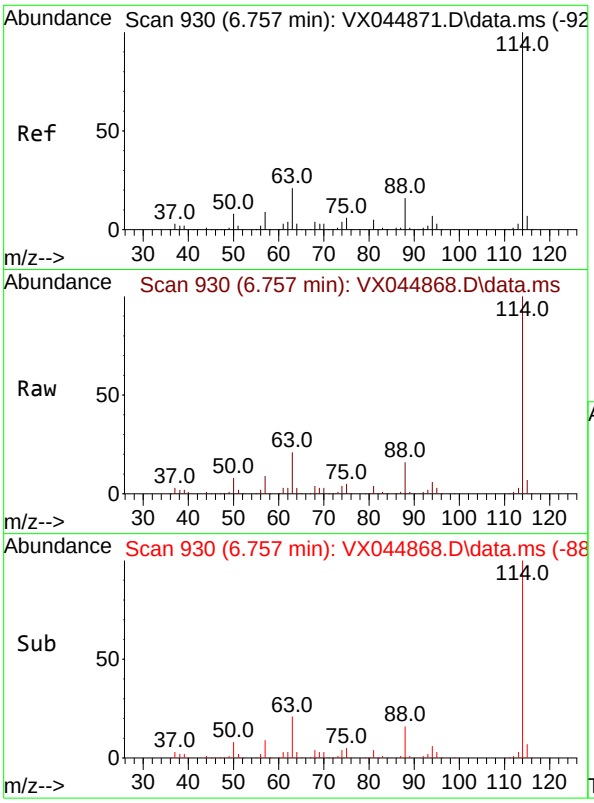
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	54.1

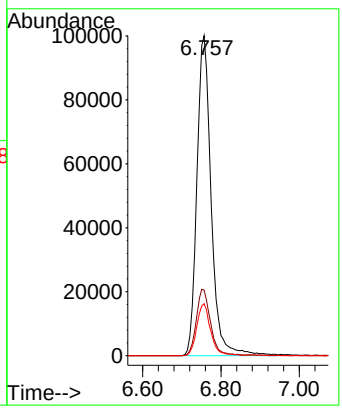




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:114 Resp: 25414

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.4
88	16.3	0.0	31.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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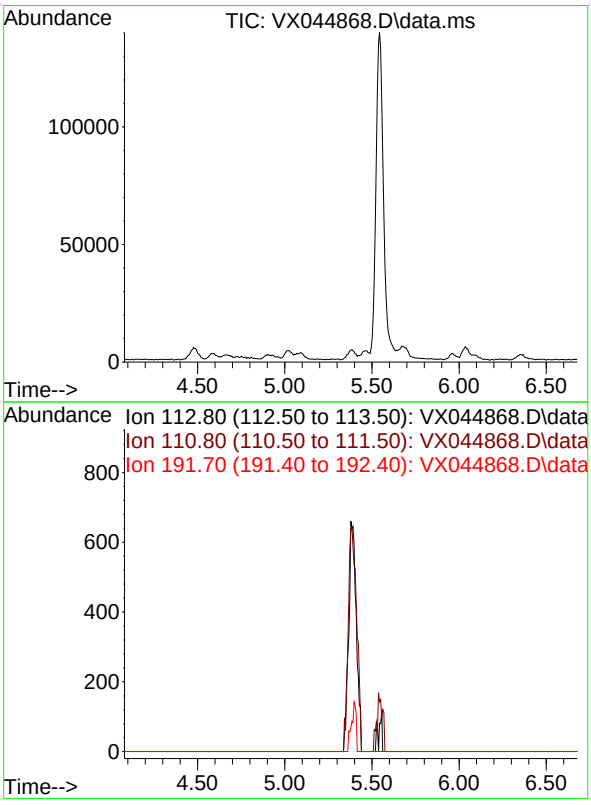
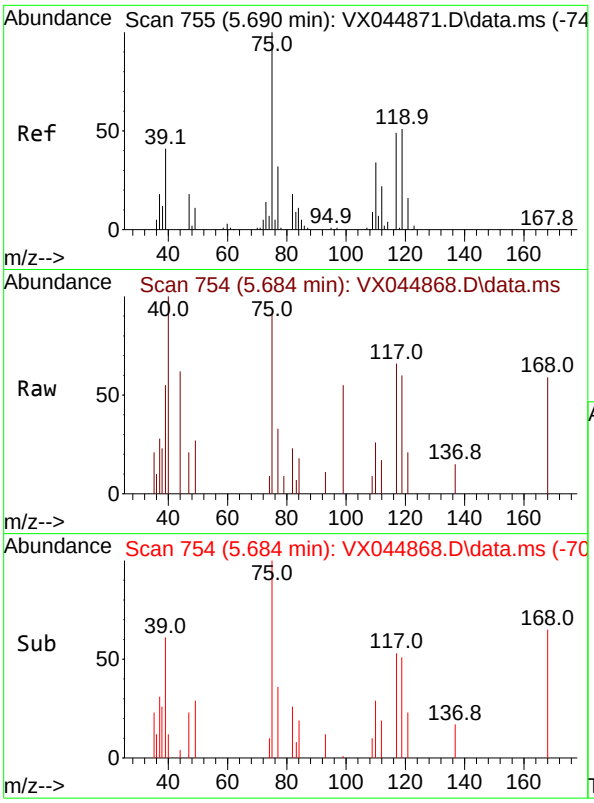


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.38 min

Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 113

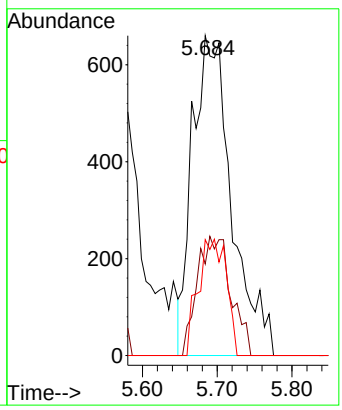
Sig	Exp Ratio
113	100
111	104.4
192	18.0



#36
1,1-Dichloropropene
Concen: 1.006 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 239

Ion	Ratio	Lower	Upper
75	100		
110	32.1	17.2	51.6
77	26.3	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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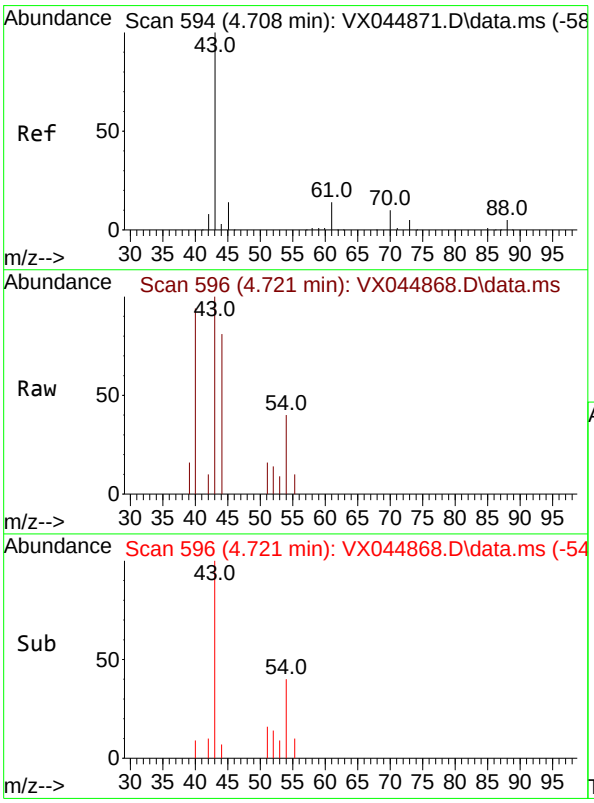
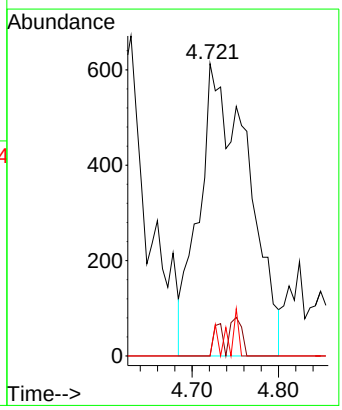
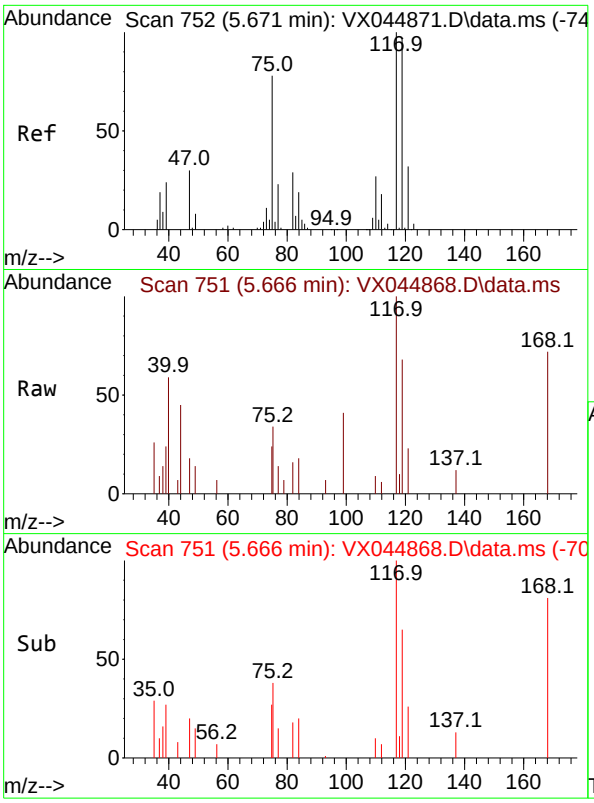


#37
Ethyl Acetate
Concen: 0.915 ug/l m
RT: 4.721 min Scan# 596
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2426

Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	1.0	8.2	12.2#

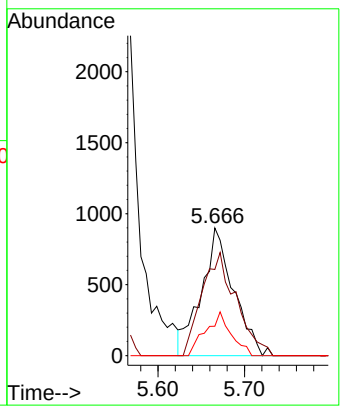




#38
Carbon Tetrachloride
Concen: 0.994 ug/l
RT: 5.666 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 232

Ion	Ratio	Lower	Upper
117	100		
119	67.5	77.5	116.3#
121	23.0	25.6	38.4#



Instrument :
MSVOA_X
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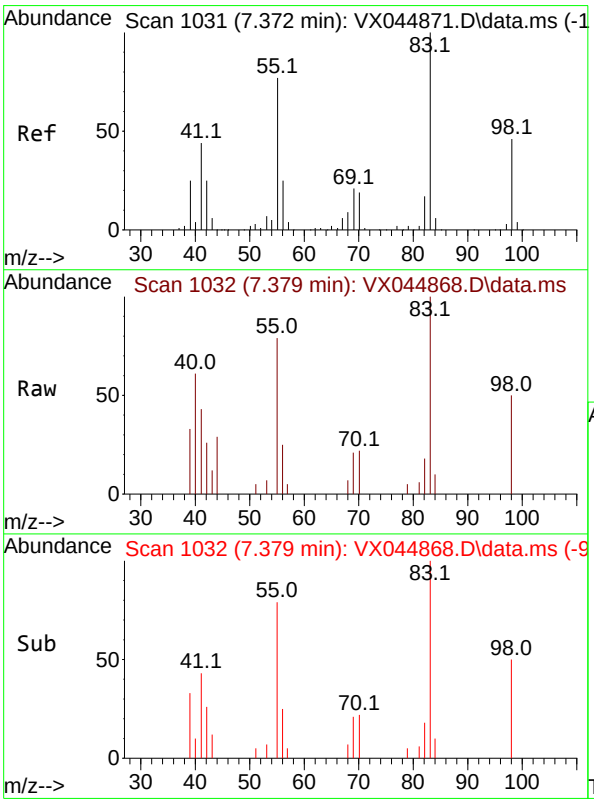
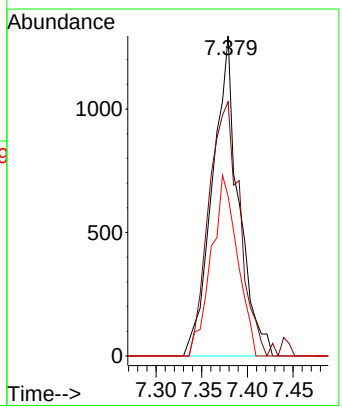
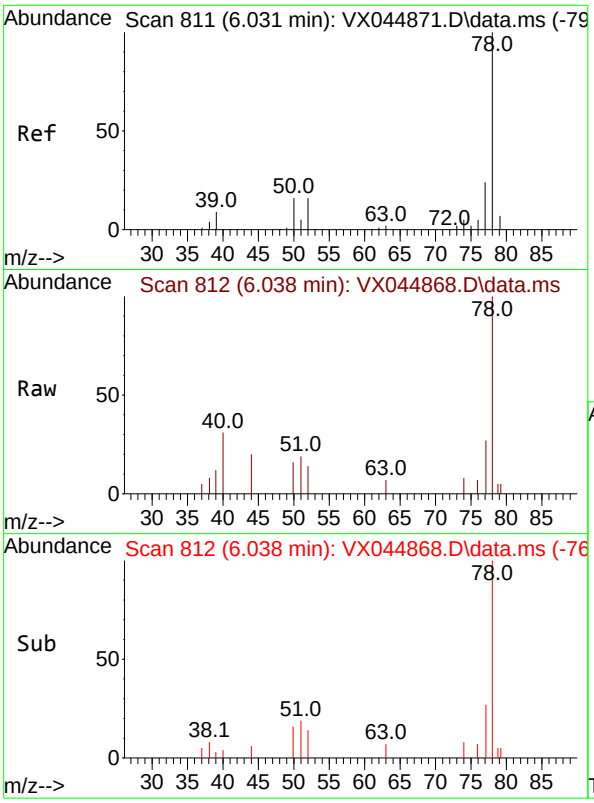


#39
Methylcyclohexane
Concen: 0.840 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 2589

Ion	Ratio	Lower	Upper
83	100		
55	79.4	61.3	91.9
98	49.8	37.0	55.6

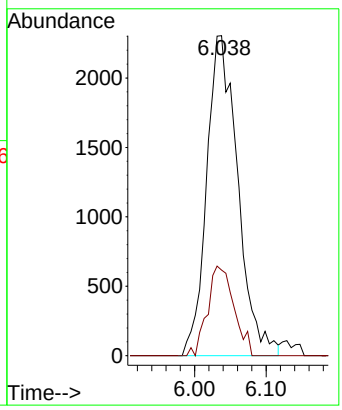




#40
Benzene
Concen: 0.935 ug/l
RT: 6.038 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 78 Resp: 696

Ion	Ratio	Lower	Upper
78	100		
77	26.8	19.0	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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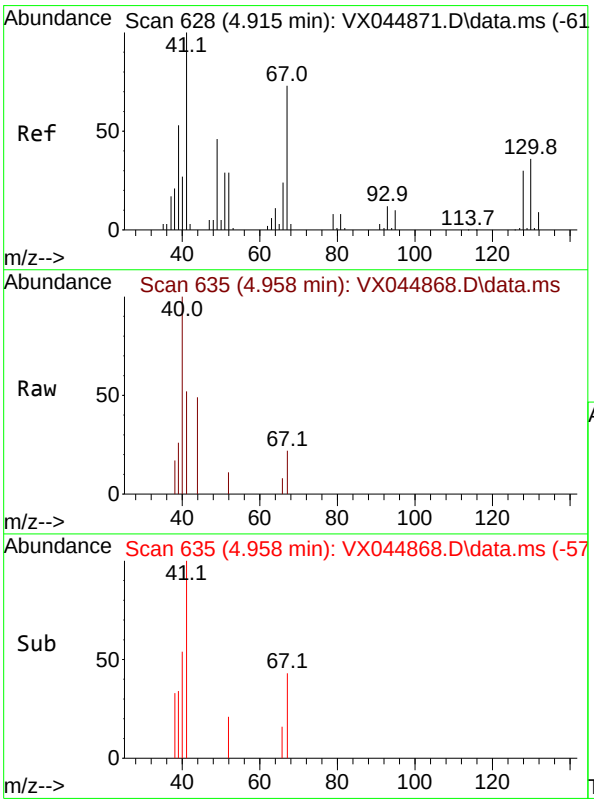
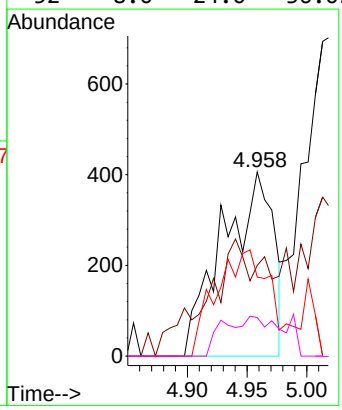
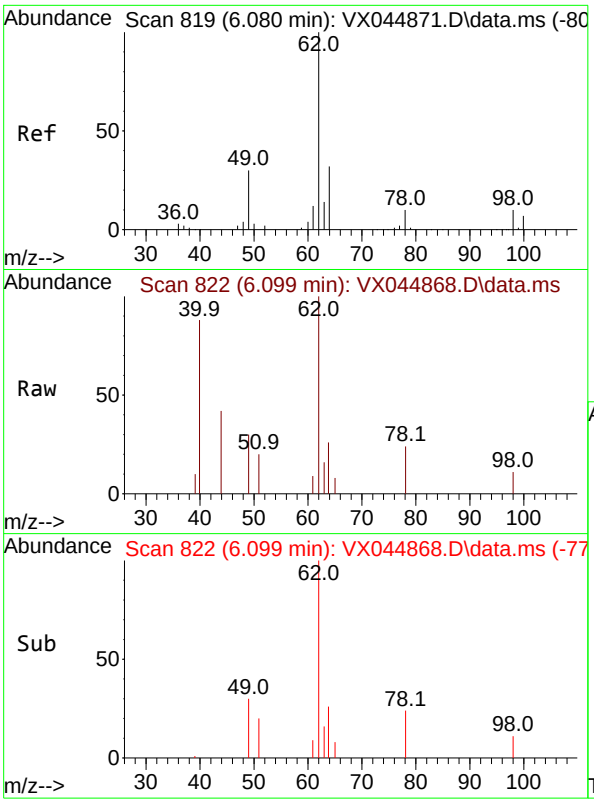


#41
Methacrylonitrile
Concen: 0.849 ug/l m
RT: 4.958 min Scan# 635
Delta R.T. 0.043 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 1205

Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.1	64.7#
67	0.0	57.0	85.6#
52	8.0	24.0	36.0#

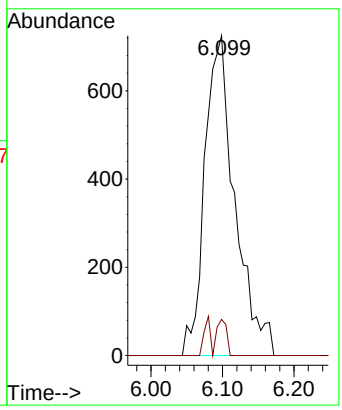




#42
1,2-Dichloroethane
Concen: 0.894 ug/l
RT: 6.099 min Scan# 8
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 212

Ion	Ratio	Lower	Upper
62	100		
98	3.7	0.0	19.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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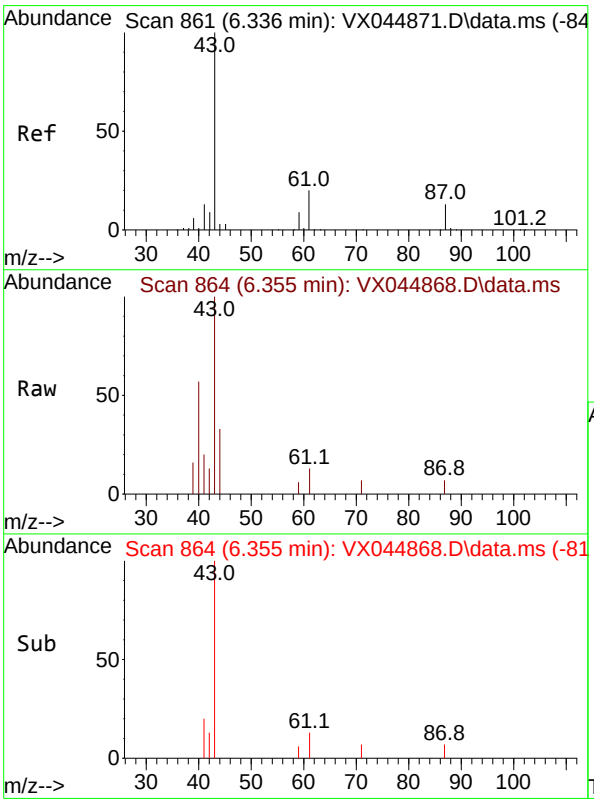
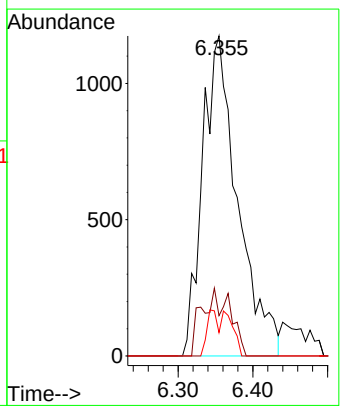
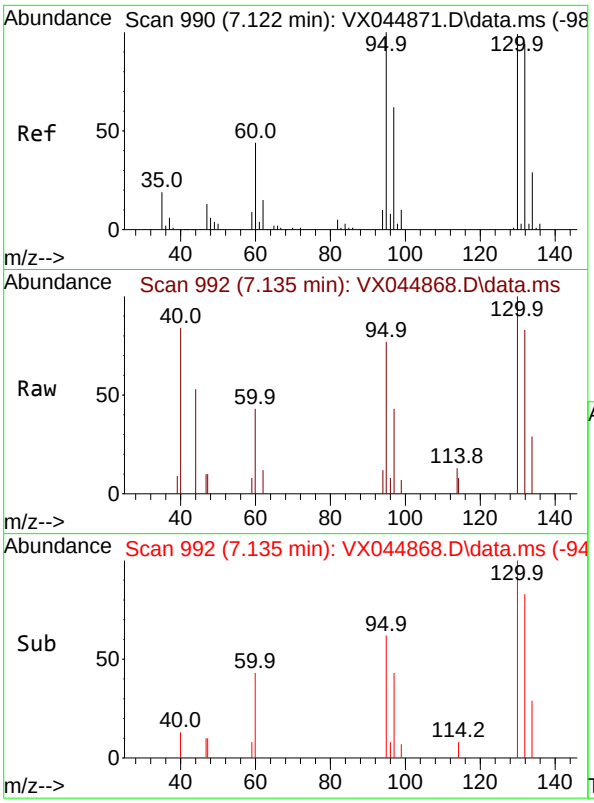


#43
Isopropyl Acetate
Concen: 0.897 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 3839

Ion	Ratio	Lower	Upper
43	100		
61	16.9	15.8	23.8
87	4.6	10.0	15.0#





#44
Trichloroethene
Concen: 0.874 ug/l
RT: 7.135 min Scan# 9
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:130 Resp: 148

Ion	Ratio	Lower	Upper
130	100		
95	76.6	0.0	202.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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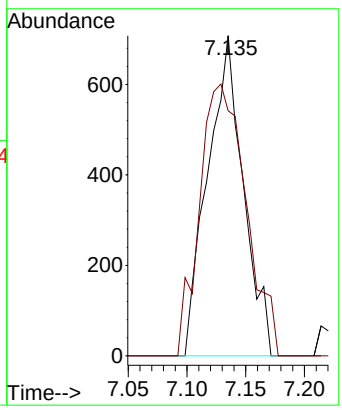
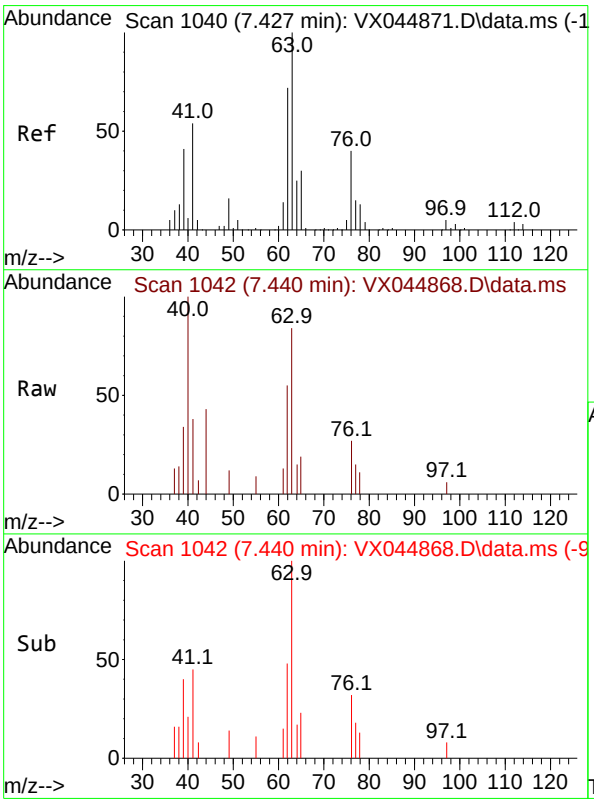
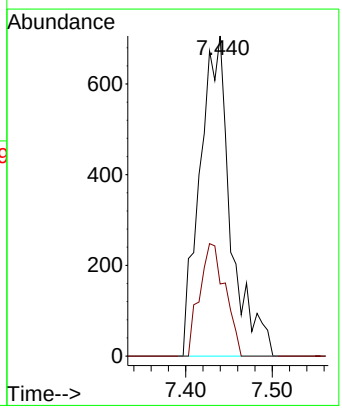


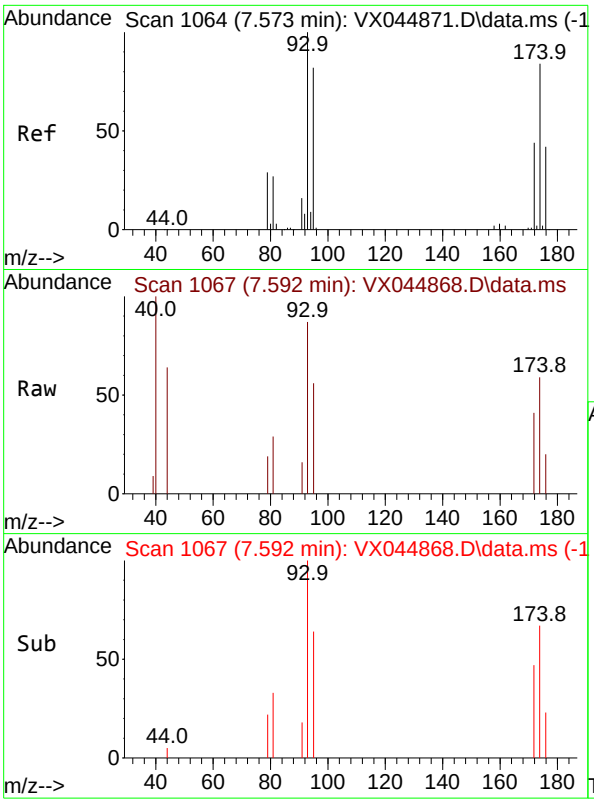


#45
1,2-Dichloropropane
Concen: 0.943 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 1746

Ion	Ratio	Lower	Upper
63	100		
65	22.5	24.2	36.4#

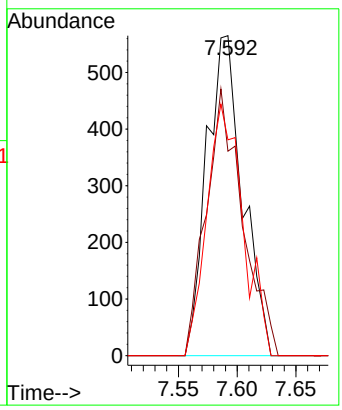




#46
Dibromomethane
Concen: 0.936 ug/l
RT: 7.592 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 93 Resp: 120

Ion	Ratio	Lower	Upper
93	100		
95	84.3	66.2	99.4
174	79.3	69.9	104.9



Instrument :
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ClientSampleId :
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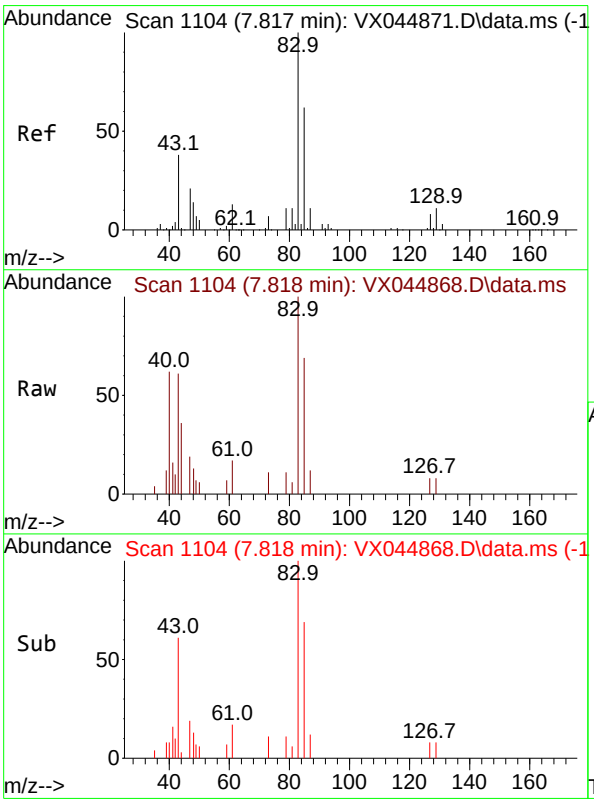
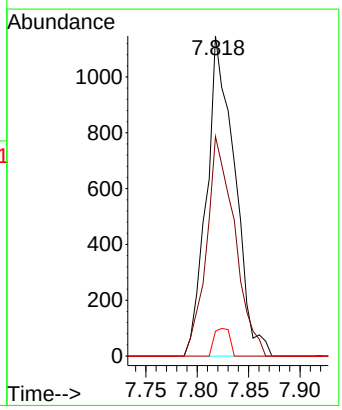
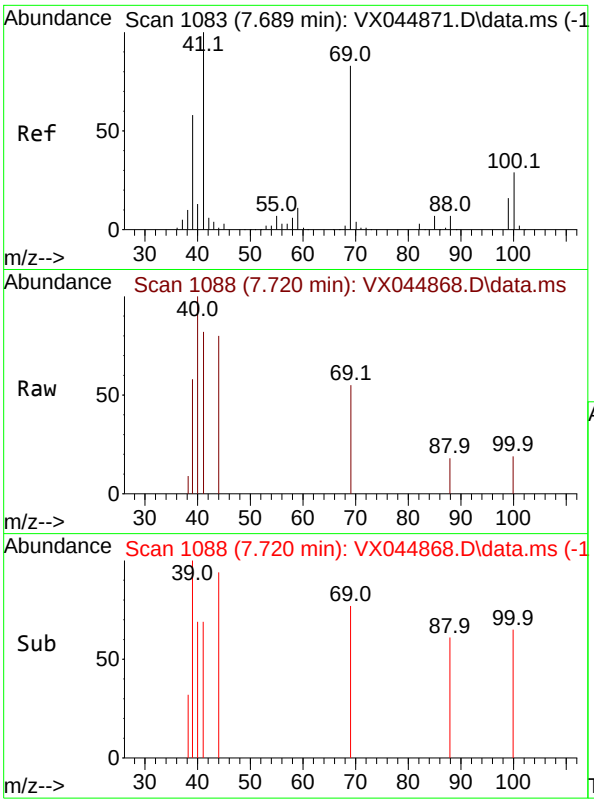


#47
Bromodichloromethane
Concen: 0.875 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 2176

Ion	Ratio	Lower	Upper
83	100		
85	68.6	50.0	75.0
127	7.8	6.4	9.6

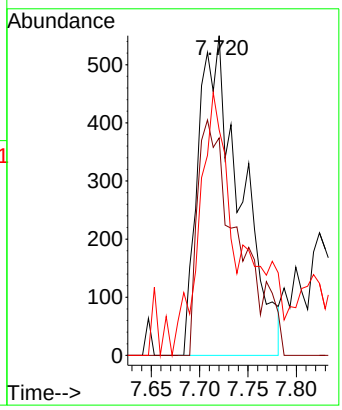




#48
Methyl methacrylate
Concen: 0.830 ug/l
RT: 7.720 min Scan# 1
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 167

Ion	Ratio	Lower	Upper
41	100		
69	71.8	65.8	98.8
39	55.9	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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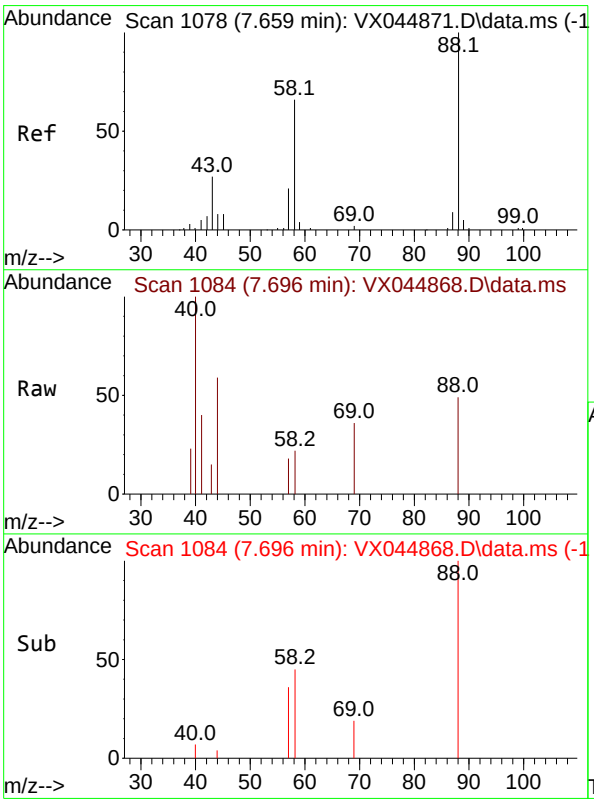
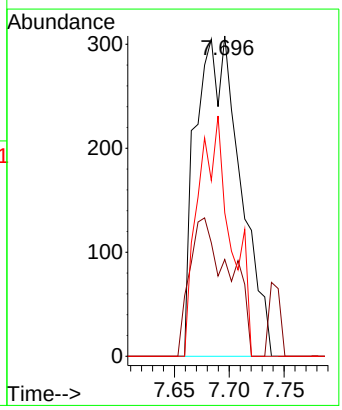
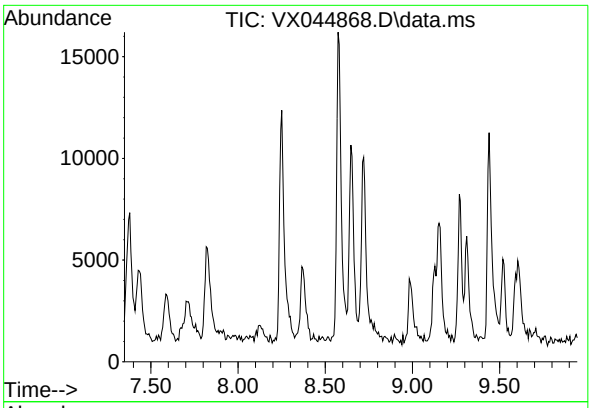


#49
1,4-Dioxane
Concen: 20.015 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.037 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 88 Resp: 867

Ion	Ratio	Lower	Upper
88	100		
43	38.9	26.6	39.8
58	55.5	55.9	83.9#





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

Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	65.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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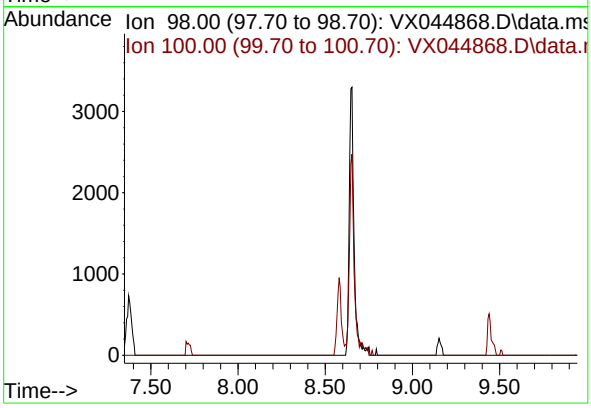
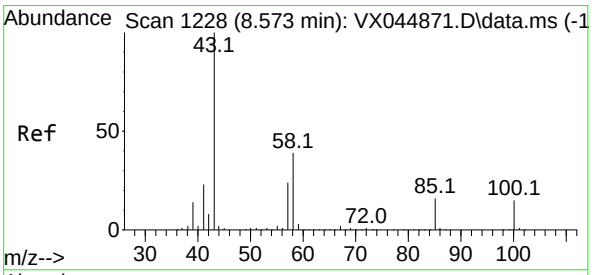
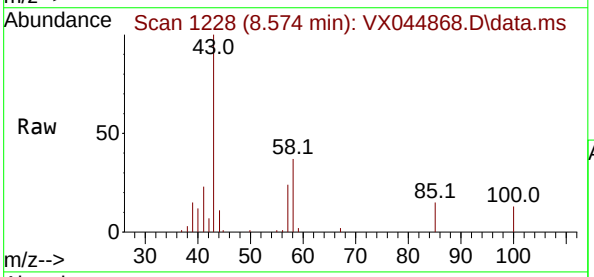


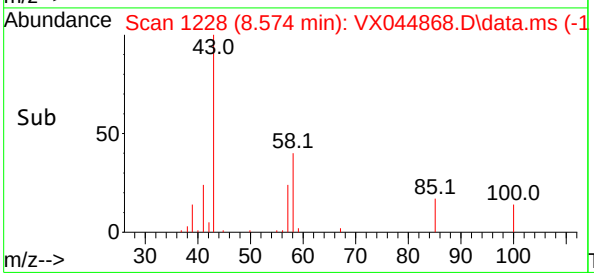


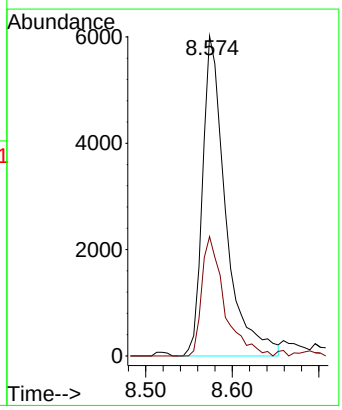
#51
4-Methyl-2-Pentanone
Concen: 4.290 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

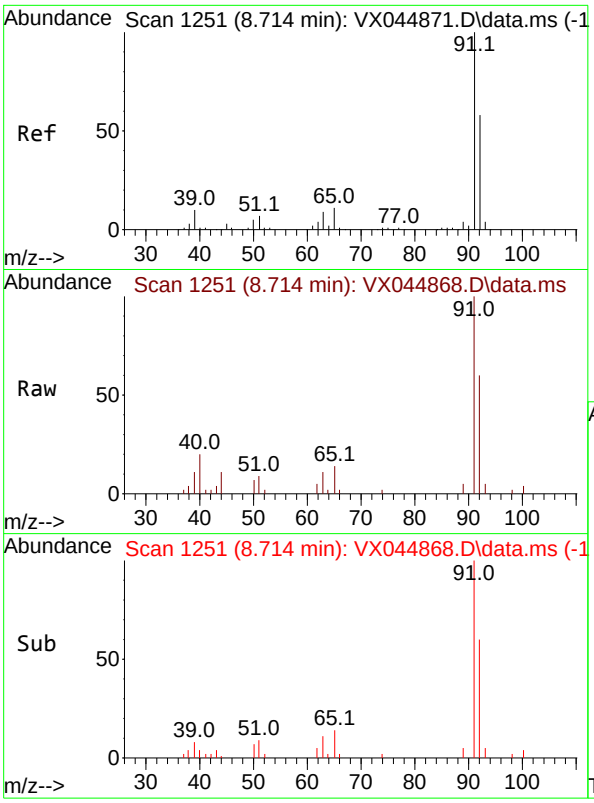
Tgt Ion: 43 Resp: 11169

Ion	Ratio	Lower	Upper
43	100		
58	36.3	30.8	46.2





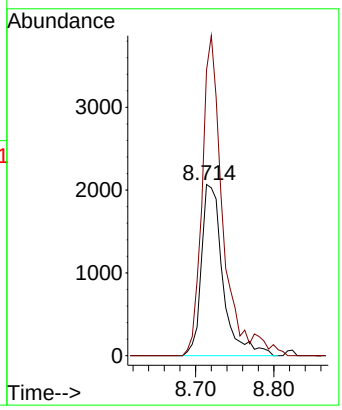




#52
Toluene
Concen: 0.889 ug/l
RT: 8.714 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 92 Resp: 394

Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.4	206.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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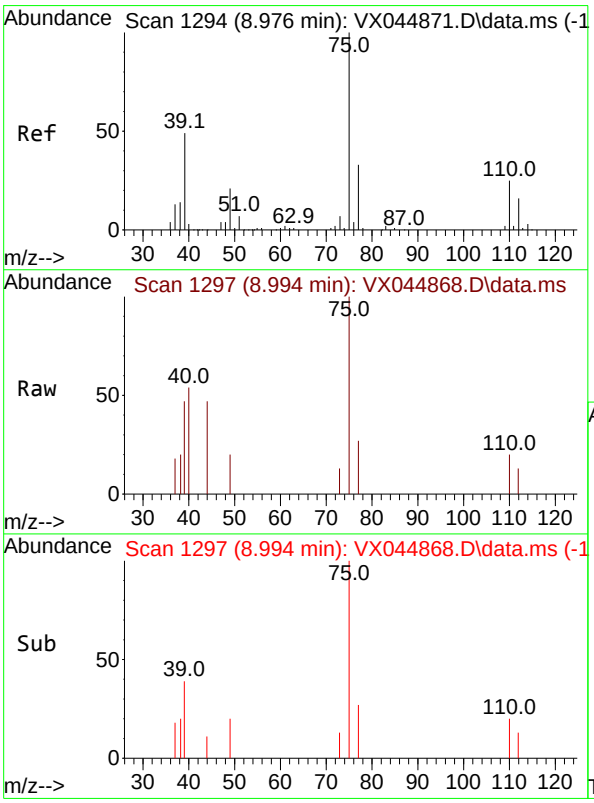
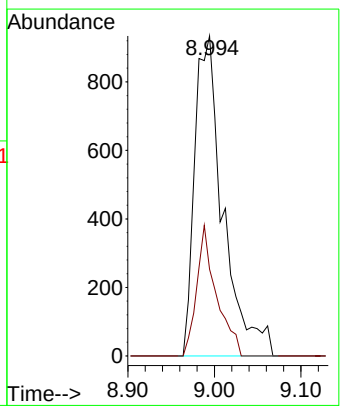
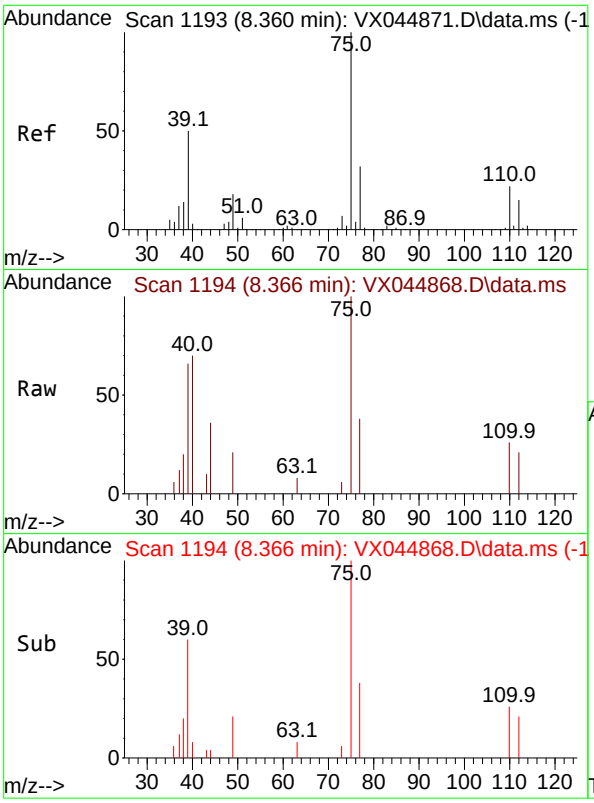


#53
t-1,3-Dichloropropene
Concen: 0.842 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 2119

Ion	Ratio	Lower	Upper
75	100		
77	27.1	26.0	39.0

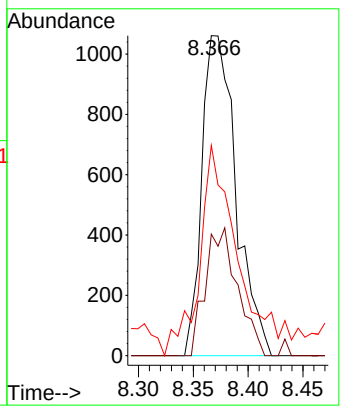




#54
cis-1,3-Dichloropropene
Concen: 0.820 ug/l
RT: 8.366 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 230

Ion	Ratio	Lower	Upper
75	100		
77	38.0	25.3	37.9#
39	60.3	40.0	60.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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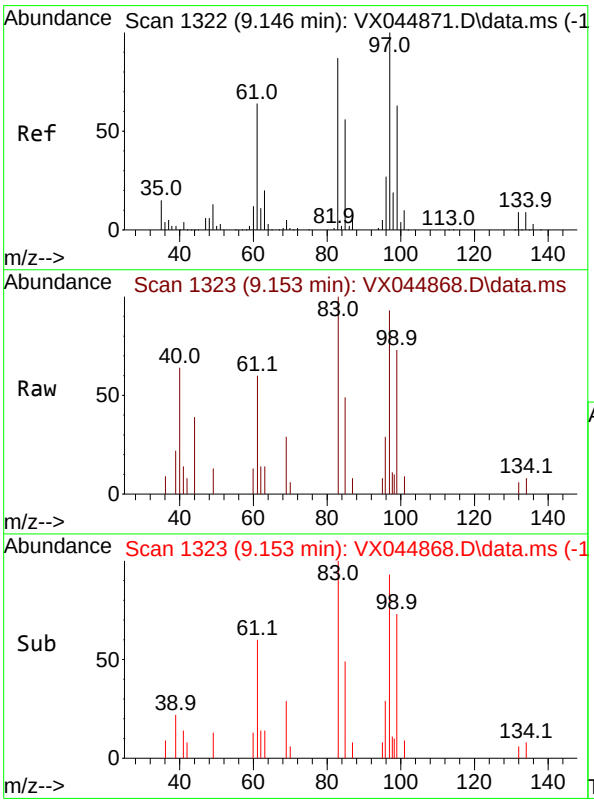
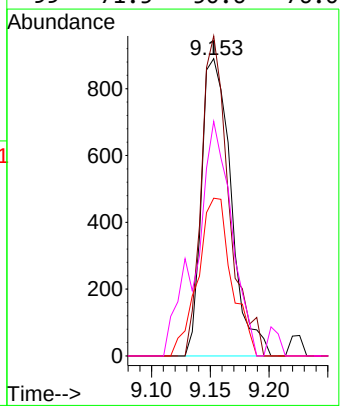
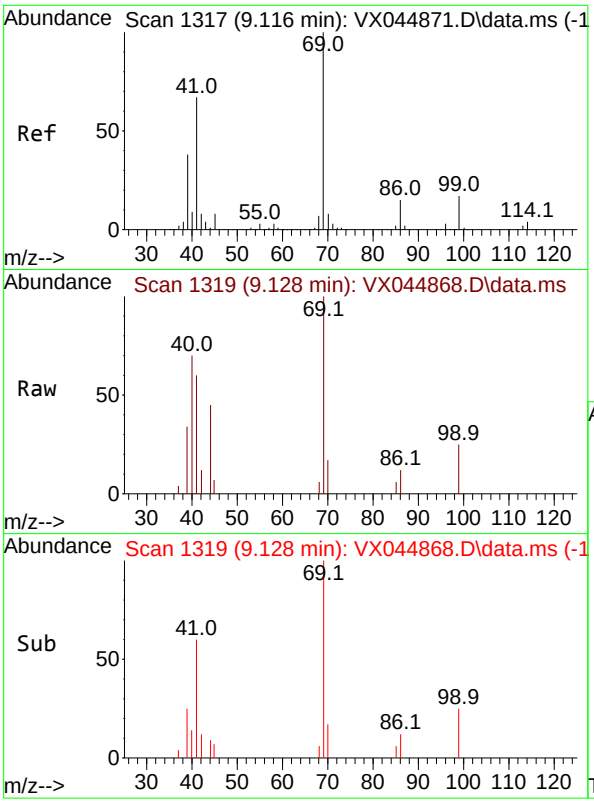


#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 97 Resp: 1558

Ion	Ratio	Lower	Upper
97	100		
83	107.6	69.8	104.6#
85	53.0	44.8	67.2
99	71.5	50.6	76.0

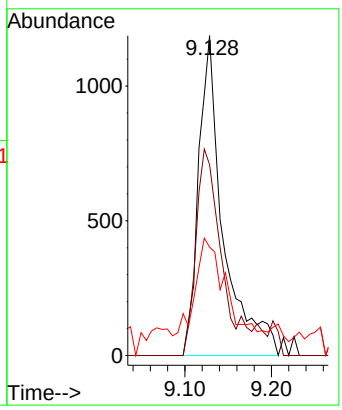




#56
Ethyl methacrylate
Concen: 0.852 ug/l
RT: 9.128 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 69 Resp: 234

Ion	Ratio	Lower	Upper
69	100		
41	61.6	55.2	82.8
39	56.2	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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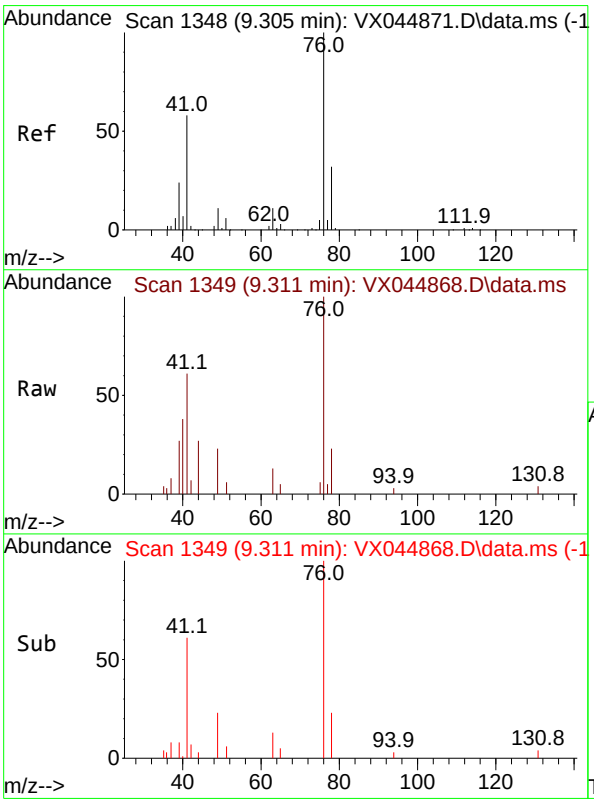
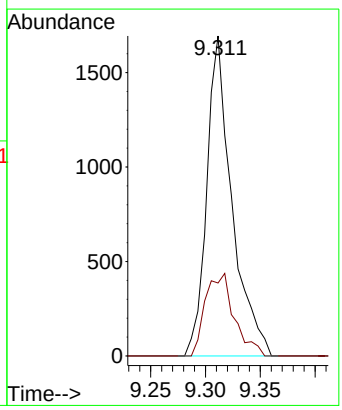
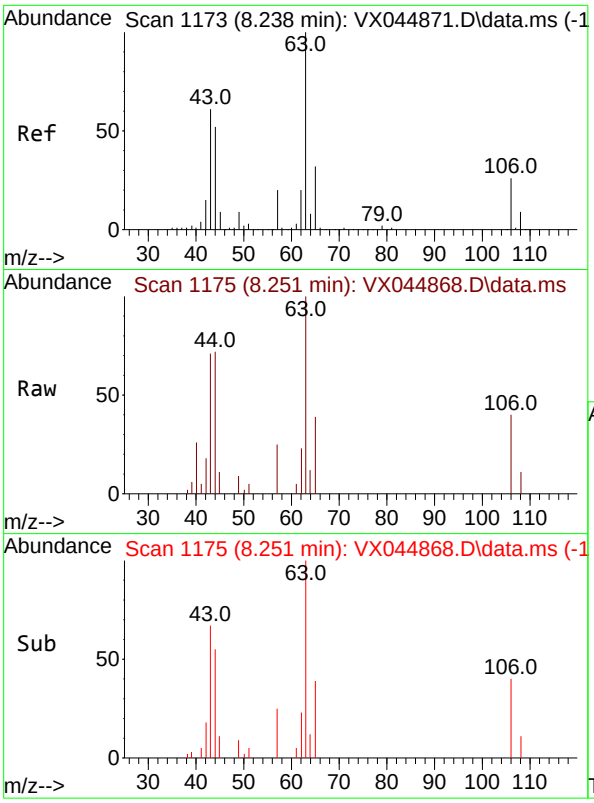


#57
1,3-Dichloropropane
Concen: 0.905 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 76 Resp: 2699

Ion	Ratio	Lower	Upper
76	100		
78	29.6	25.8	38.8





#58
2-Chloroethyl Vinyl ether
Concen: 3.996 ug/l
RT: 8.251 min Scan# 11
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 540

Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.3	31.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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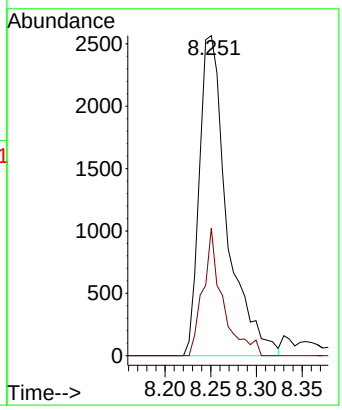
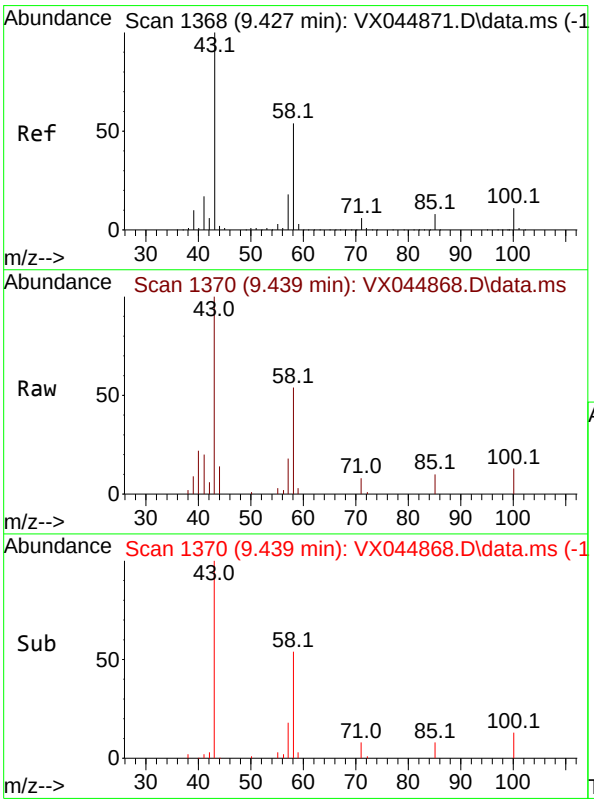
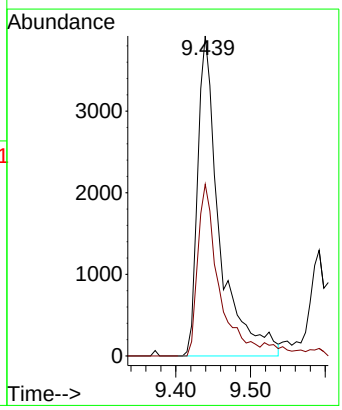


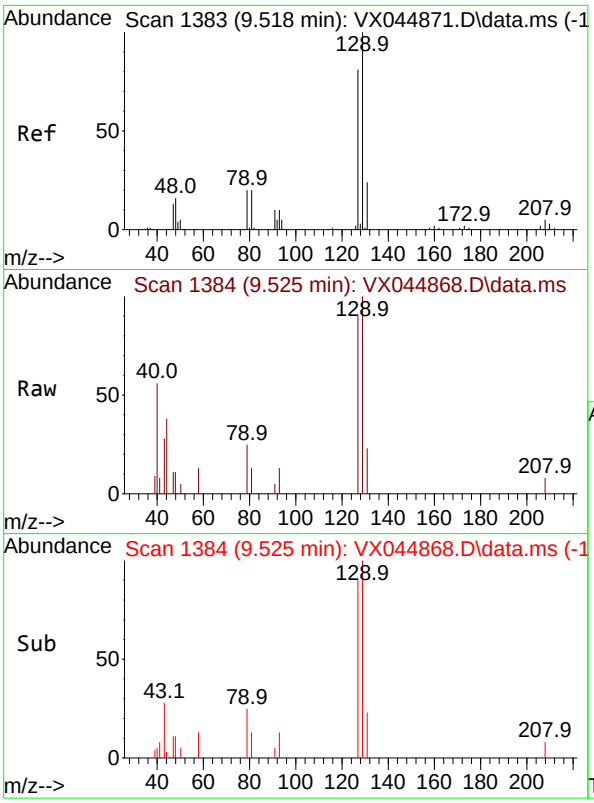


#59
2-Hexanone
Concen: 4.240 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 7952

Ion	Ratio	Lower	Upper
43	100		
58	51.3	27.5	82.4

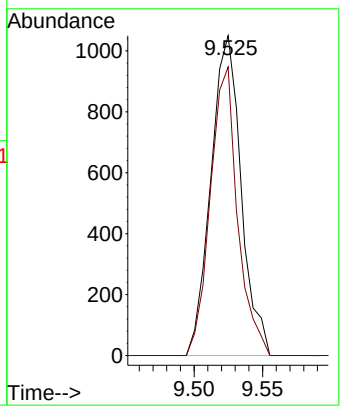




#60
Dibromochloromethane
Concen: 0.885 ug/l
RT: 9.525 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:129 Resp: 161

Ion	Ratio	Lower	Upper
129	100		
127	81.3	39.1	117.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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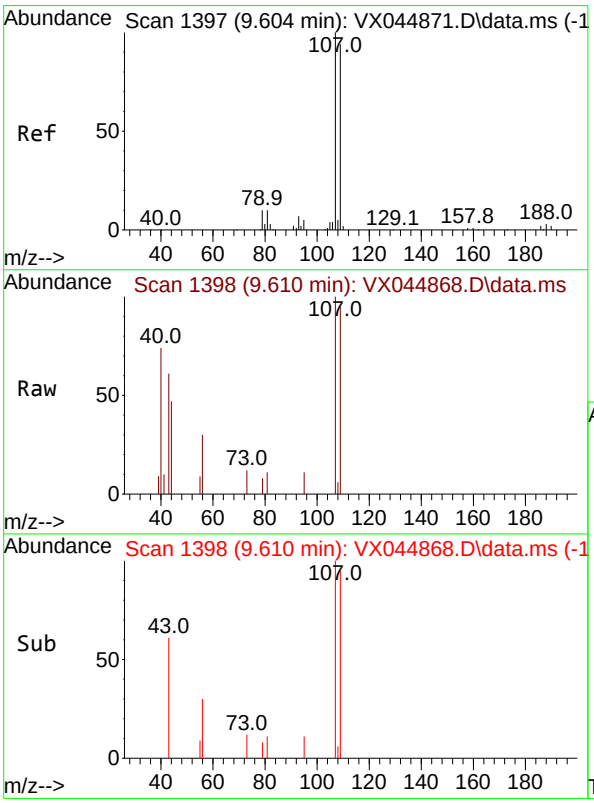
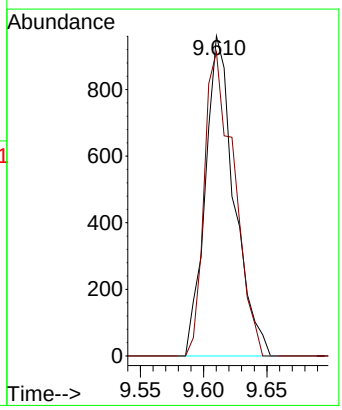
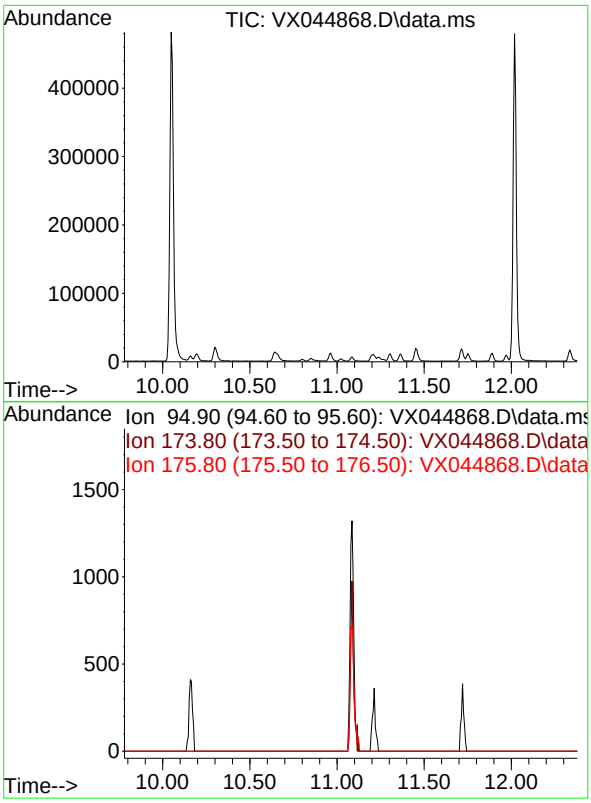


#61
1,2-Dibromoethane
Concen: 0.888 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:107 Resp: 1534

Ion	Ratio	Lower	Upper
107	100		
109	97.4	75.9	113.9





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

Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	71.3
176	70.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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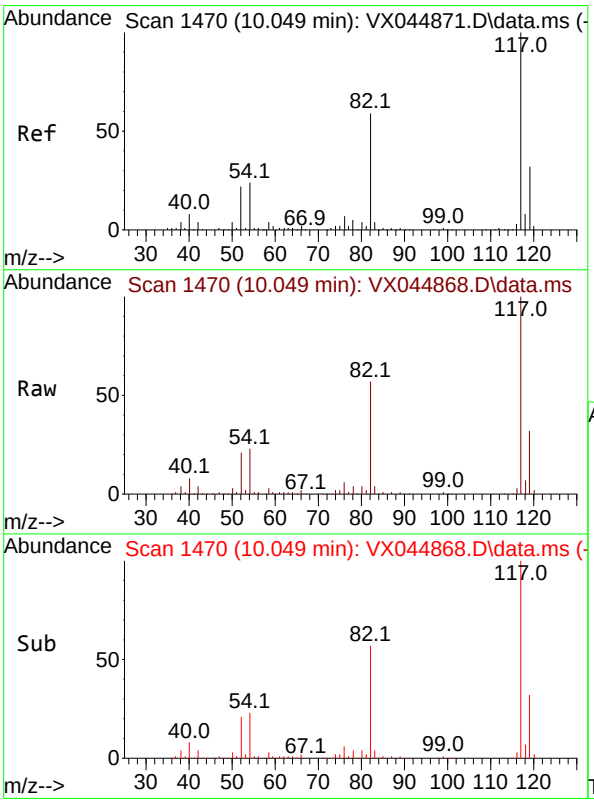
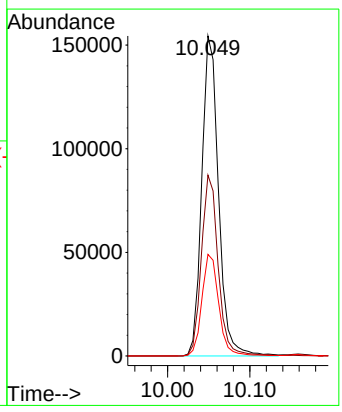
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

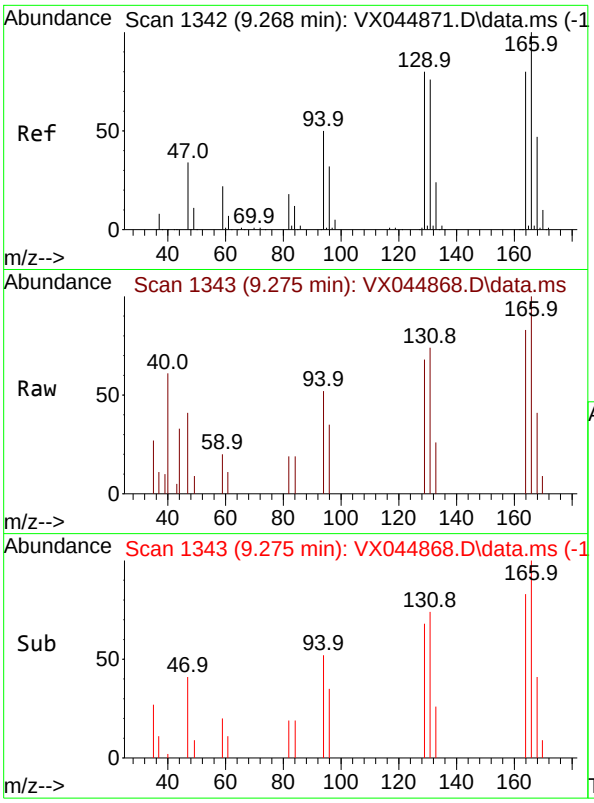


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 218570

Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.5	71.3
119	31.8	25.4	38.0

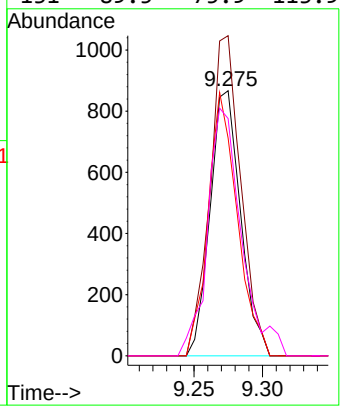




#64
Tetrachloroethene
Concen: 0.971 ug/l
RT: 9.275 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:164 Resp: 133

Ion	Ratio	Lower	Upper
164	100		
166	120.8	100.4	150.6
129	82.1	79.9	119.9
131	89.5	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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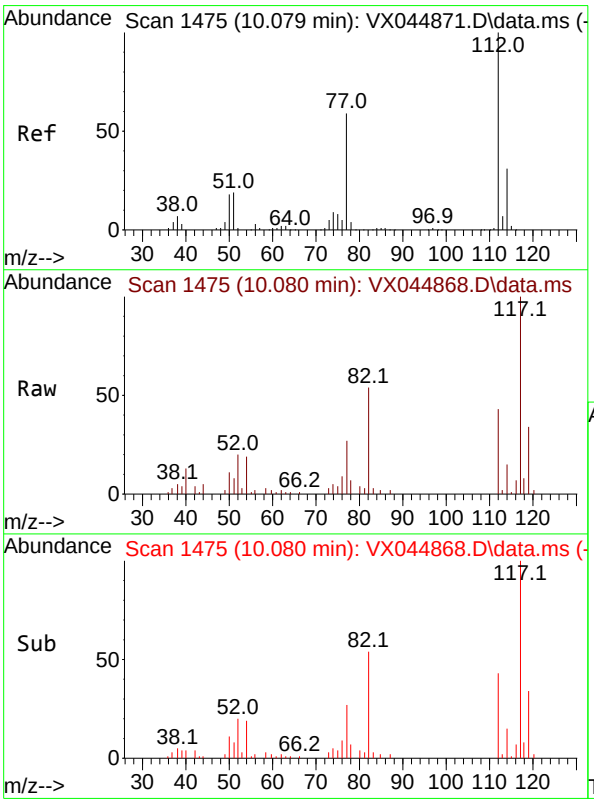
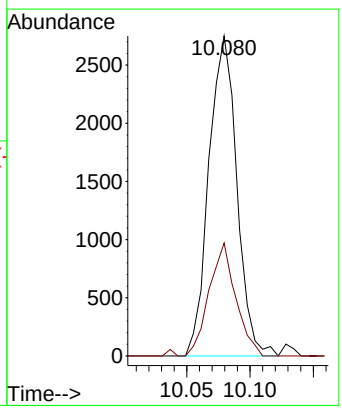
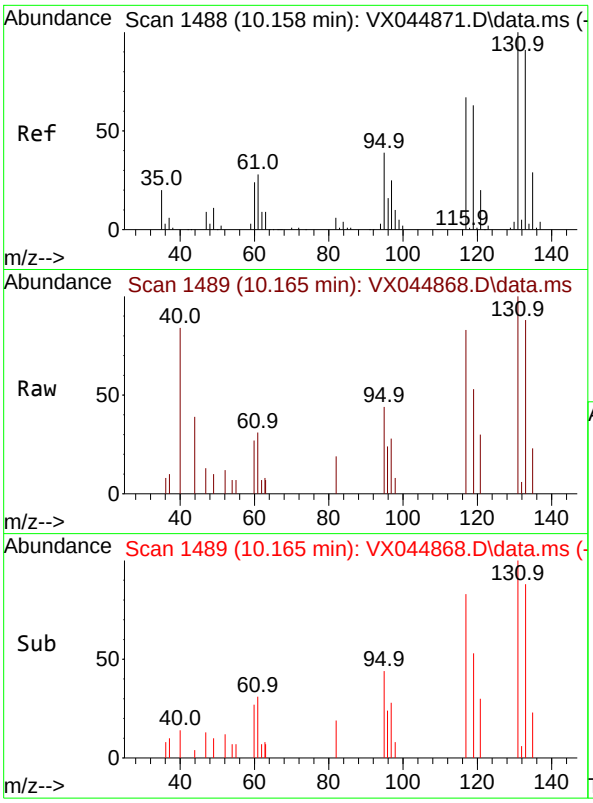


#65
Chlorobenzene
Concen: 0.902 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:112 Resp: 4234

Ion	Ratio	Lower	Upper
112	100		
114	35.3	25.0	37.6





#66
1,1,1,2-Tetrachloroethane
Concen: 0.874 ug/l
RT: 10.165 min Scan# 14
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:131 Resp: 132(

Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.1	141.3
119	0.0	33.6	100.6#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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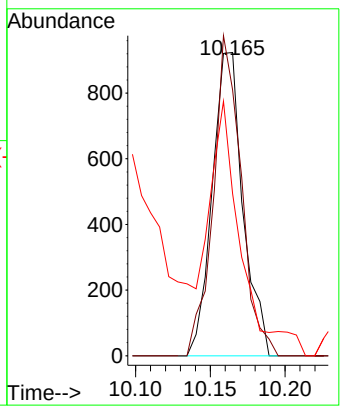
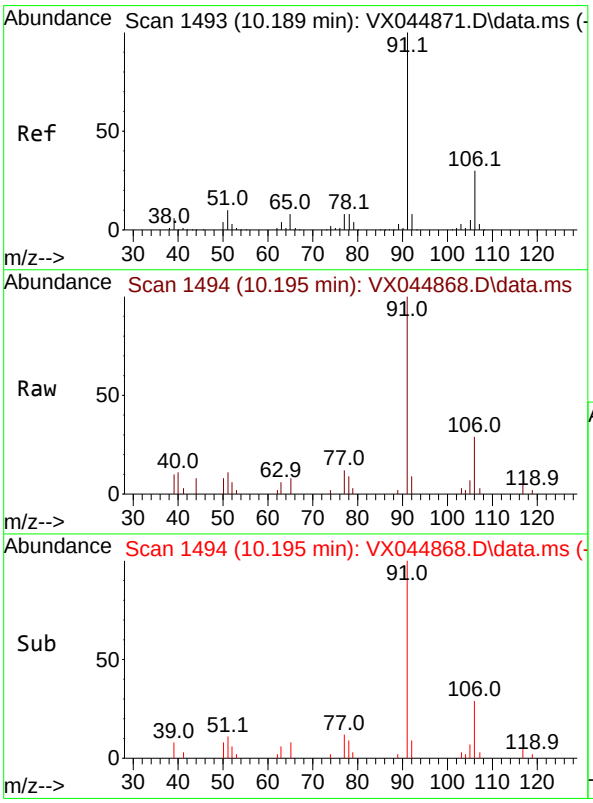
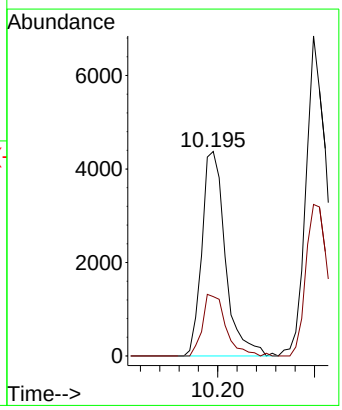


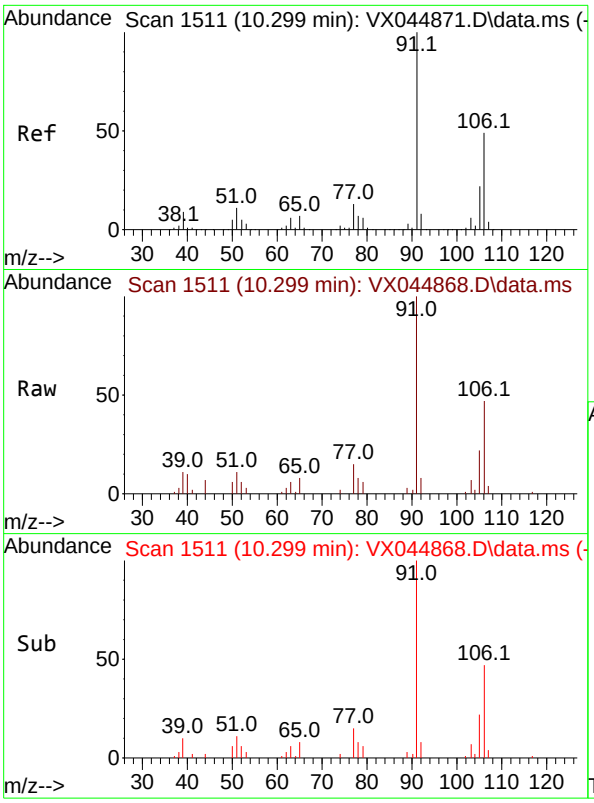


#67
Ethyl Benzene
Concen: 0.892 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 7388

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.9	35.9

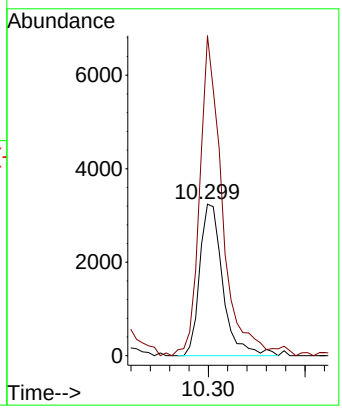




#68
m/p-Xylenes
Concen: 1.763 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:106 Resp: 538

Ion	Ratio	Lower	Upper
106	100		
91	204.7	164.3	246.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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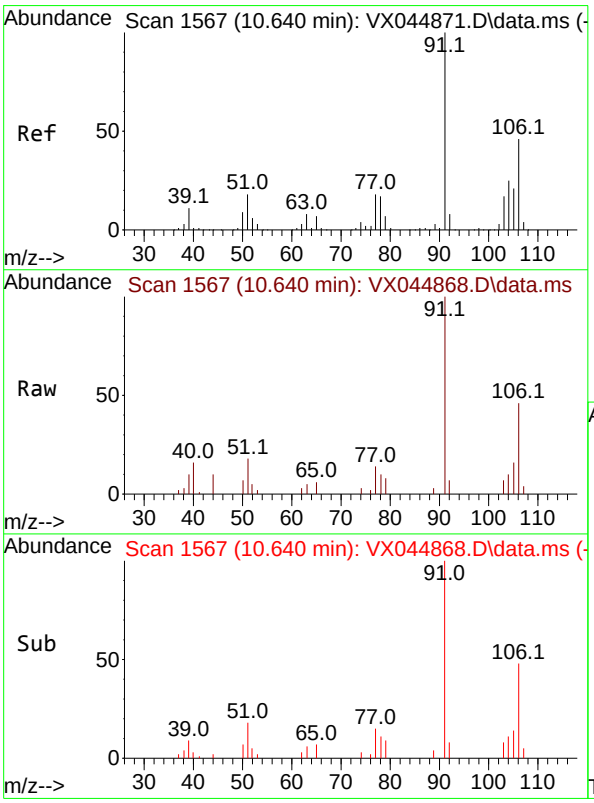
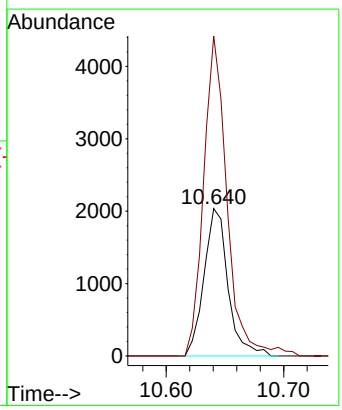
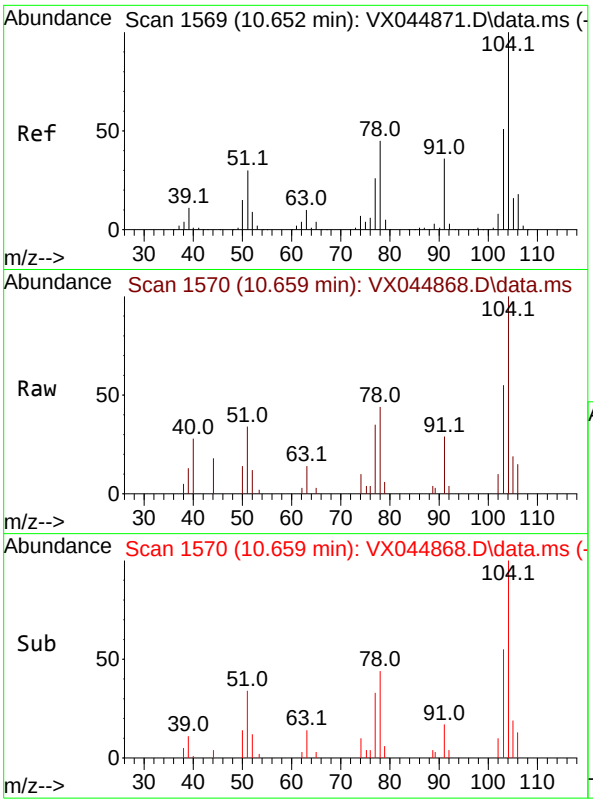


#69
o-Xylene
Concen: 0.942 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:106 Resp: 2889

Ion	Ratio	Lower	Upper
106	100		
91	211.5	108.5	325.5

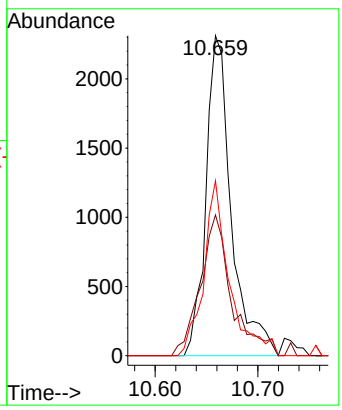




#70
Styrene
Concen: 0.804 ug/l
RT: 10.659 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:104 Resp: 397

Ion	Ratio	Lower	Upper
104	100		
78	54.1	40.5	60.7
103	55.0	43.6	65.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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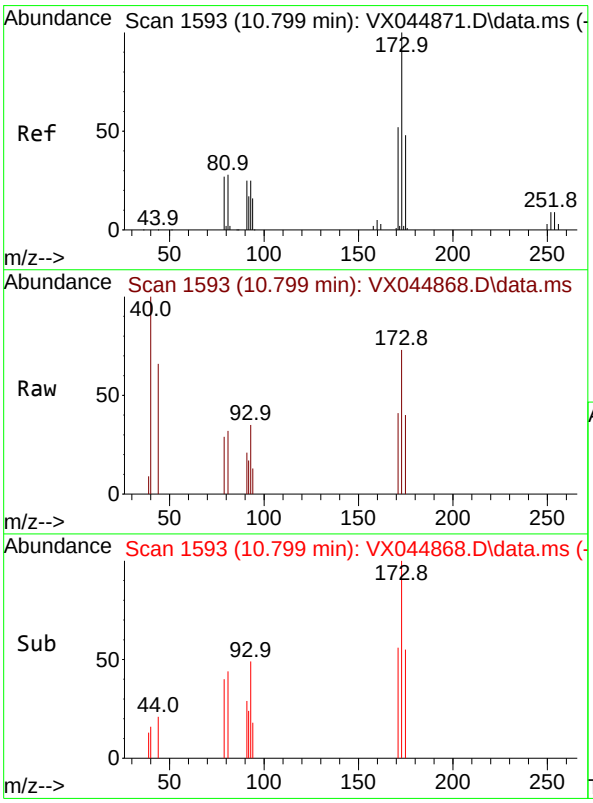
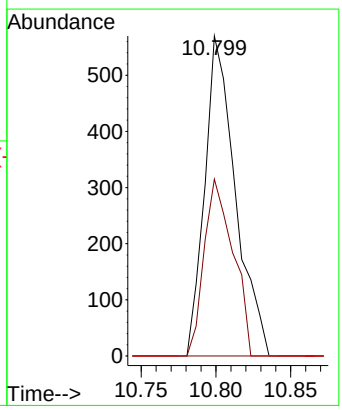
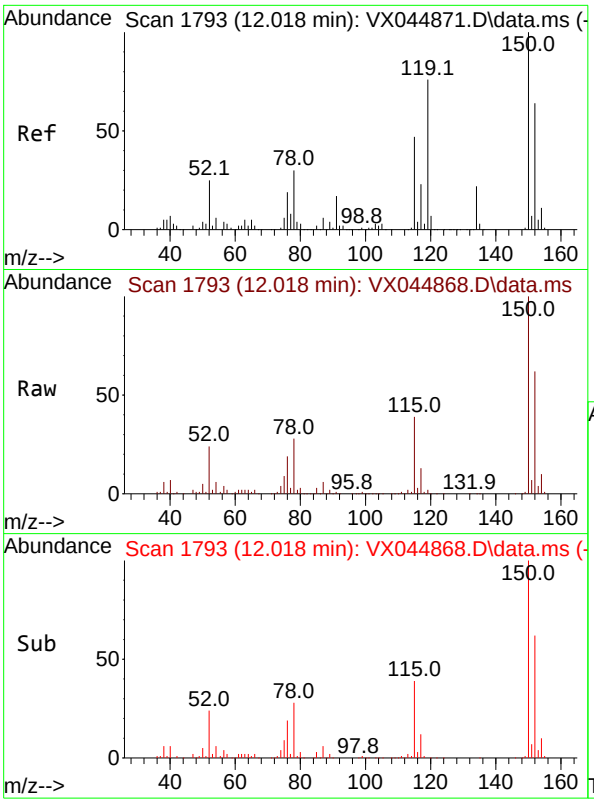


#71
Bromoform
Concen: 0.721 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:173 Resp: 813

Ion	Ratio	Lower	Upper
173	100		
175	52.2	24.3	72.8
254	0.0	0.0	0.0

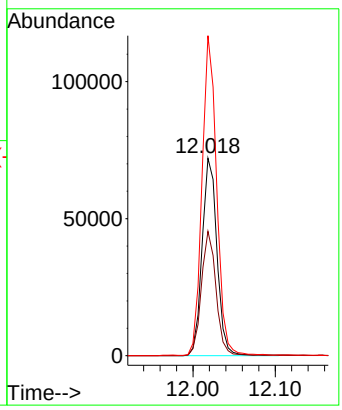




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:152 Resp: 9073

Ion	Ratio	Lower	Upper
152	100		
115	62.0	43.4	130.1
150	158.6	0.0	350.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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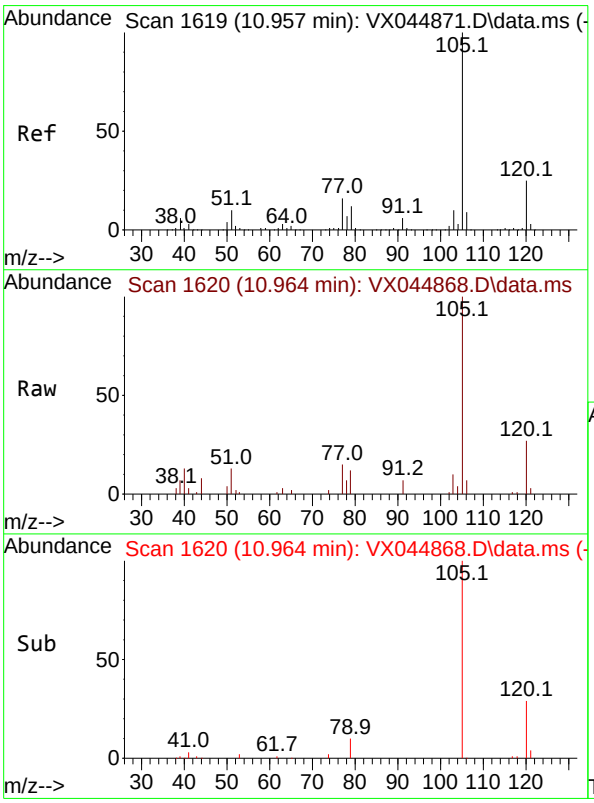
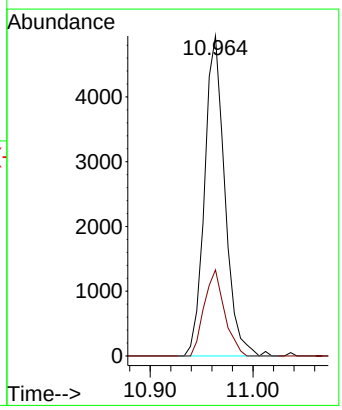
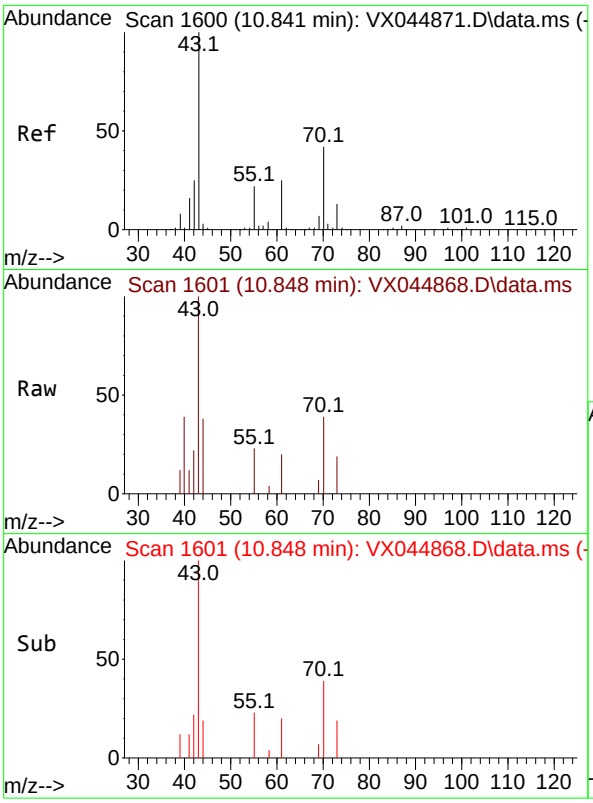


#73
Isopropylbenzene
Concen: 0.928 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 6778

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.2	39.5

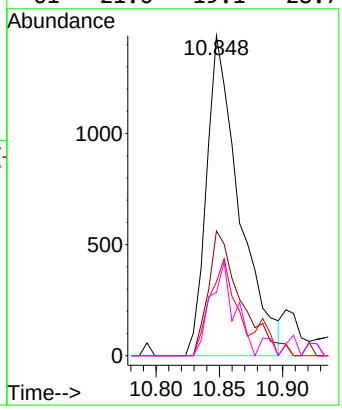




#74
N-amyl acetate
Concen: 0.785 ug/l
RT: 10.848 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 259

Ion	Ratio	Lower	Upper
43	100		
70	38.8	33.7	50.5
55	25.2	18.6	27.8
61	21.6	19.1	28.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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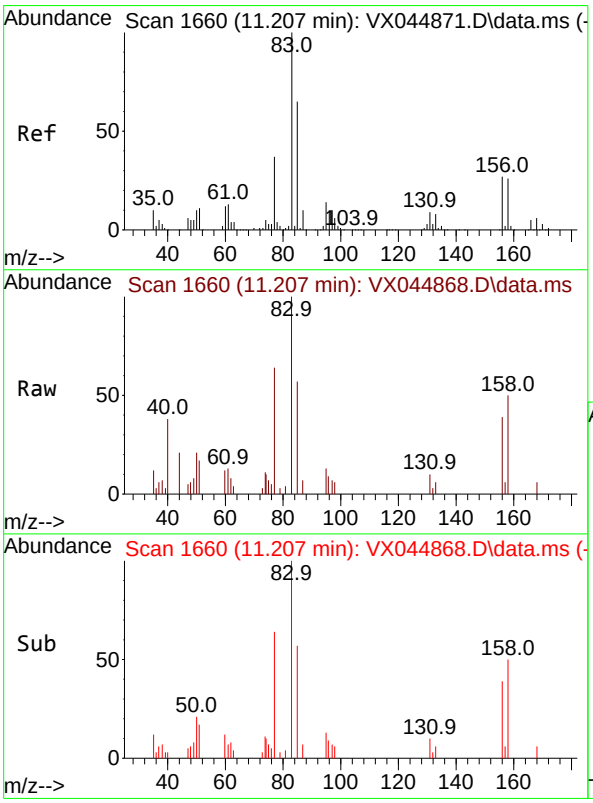
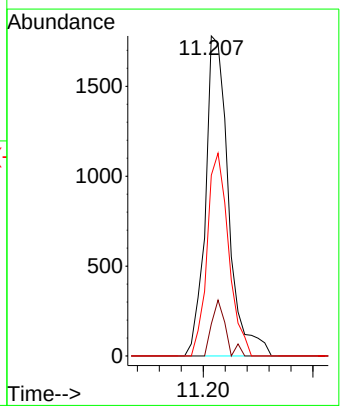
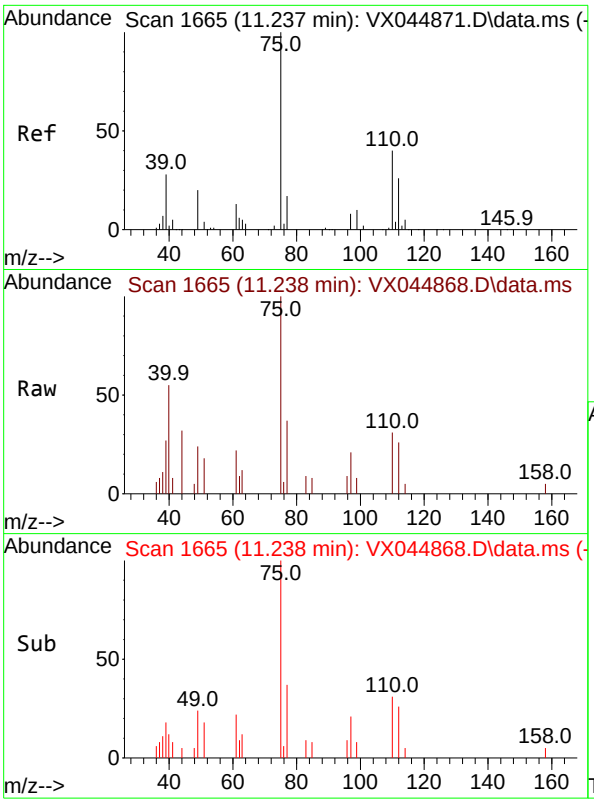


#75
1,1,2,2-Tetrachloroethane
Concen: 1.033 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 2594

Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.5	13.5
85	59.2	32.3	96.8





#76
1,2,3-Trichloropropane
Concen: 0.943 ug/l m
RT: 11.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 189

Ion	Ratio	Lower	Upper
75	100		
77	43.4	21.9	65.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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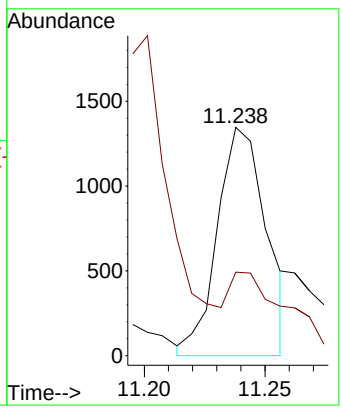
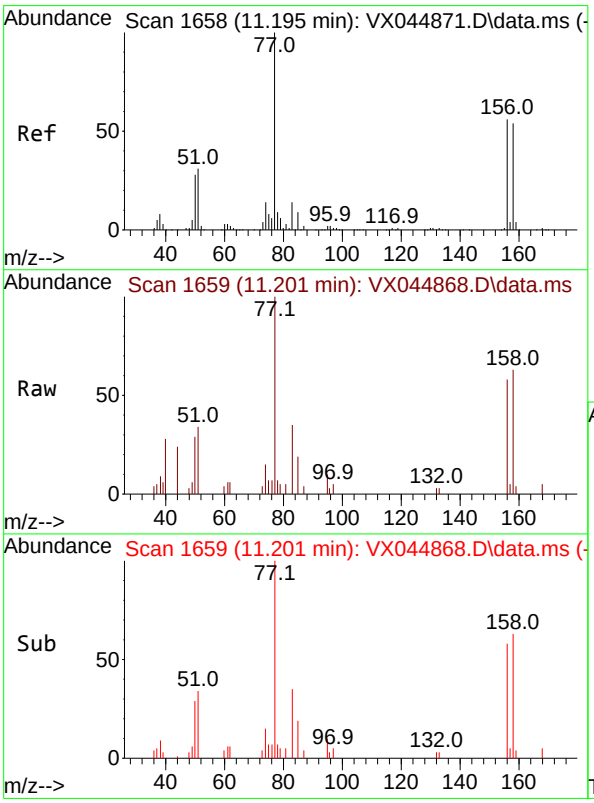
Supervised By :Mahesh Dadoda 02/11/2025

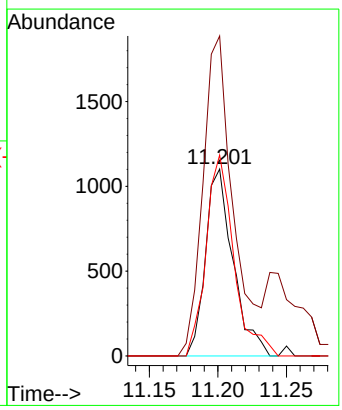


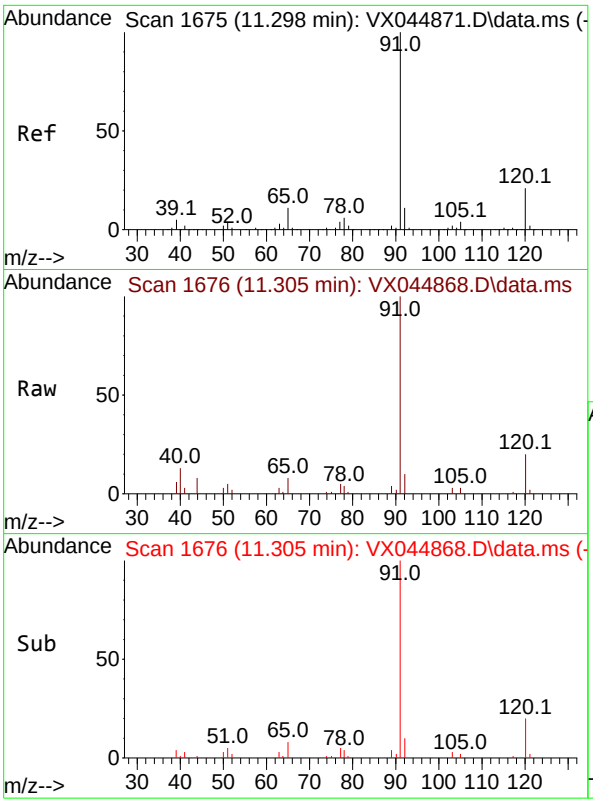


#77
Bromobenzene
Concen: 0.928 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:156 Resp: 1537

Ion	Ratio	Lower	Upper
156	100		
77	188.7	88.4	265.3
158	108.6	48.4	145.2





#78
n-propylbenzene
Concen: 0.871 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 734

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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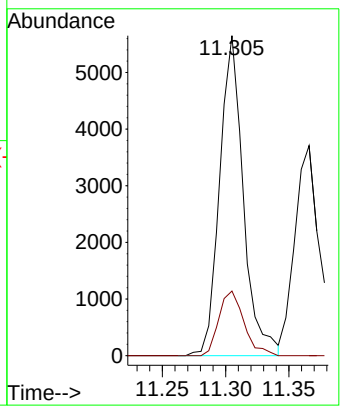
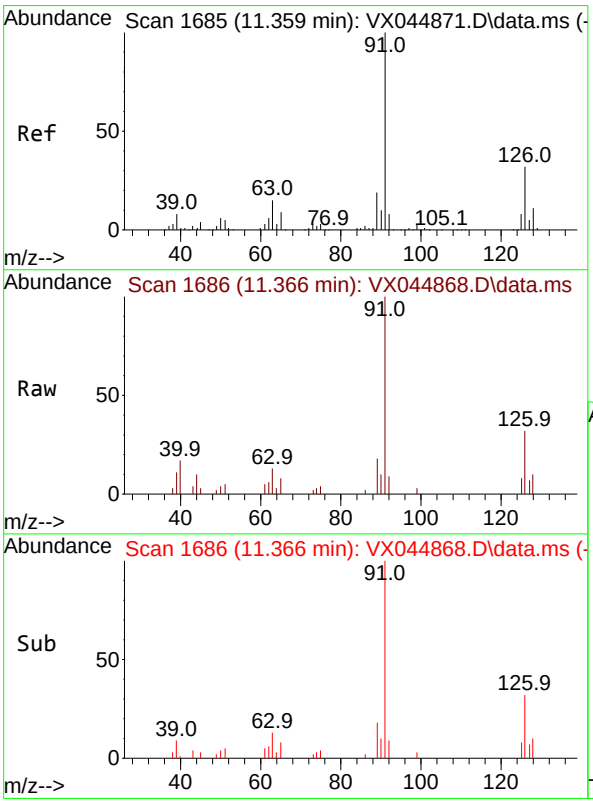
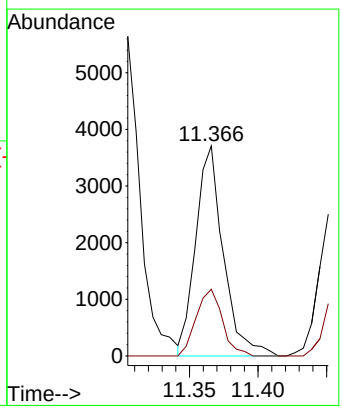


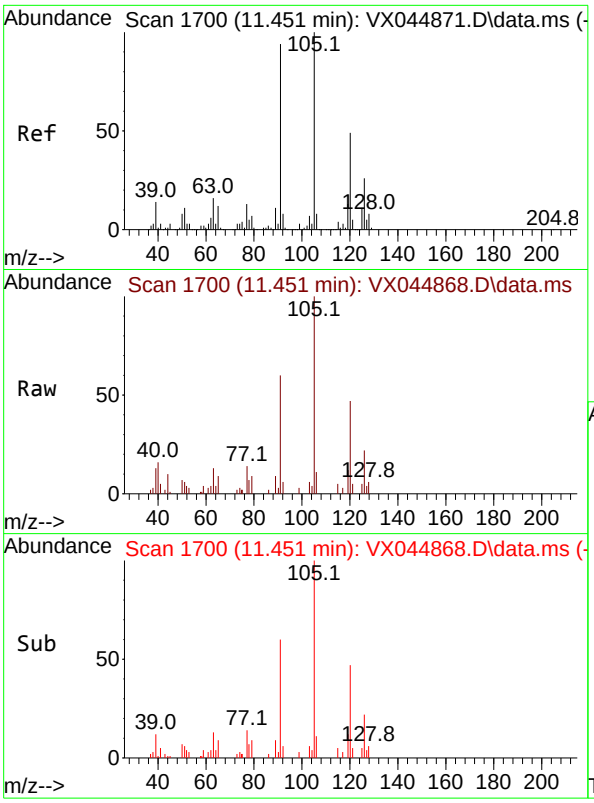


#79
2-Chlorotoluene
Concen: 1.001 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 5188

Ion	Ratio	Lower	Upper
91	100		
126	30.1	16.2	48.6

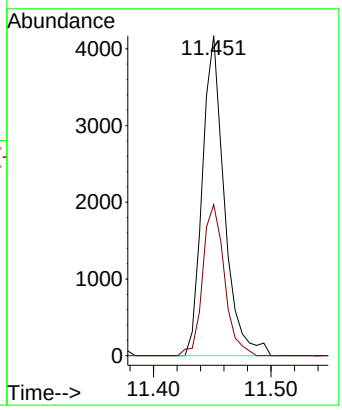




#80
1,3,5-Trimethylbenzene
Concen: 0.913 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 541

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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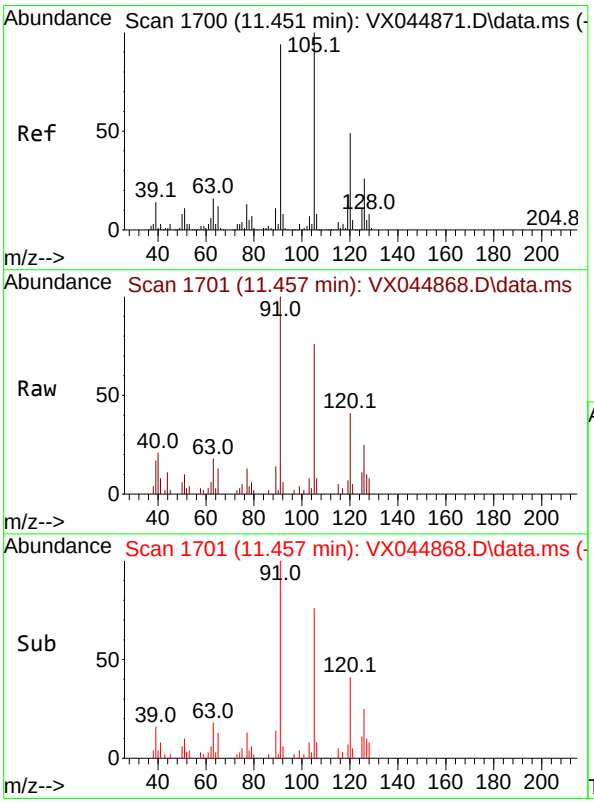
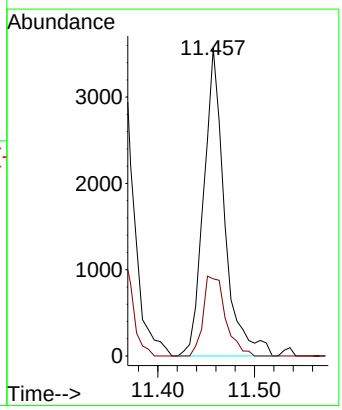
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

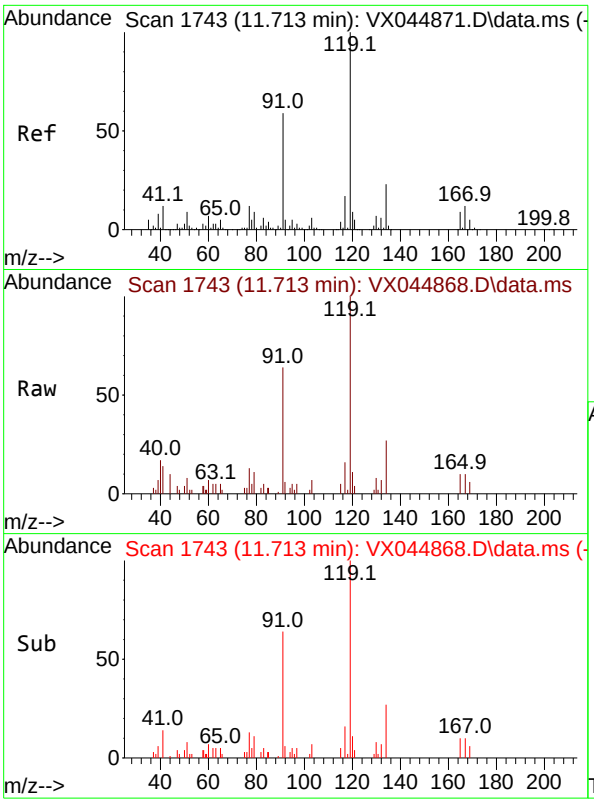


#82
4-Chlorotoluene
Concen: 0.936 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 5367

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.2	42.6

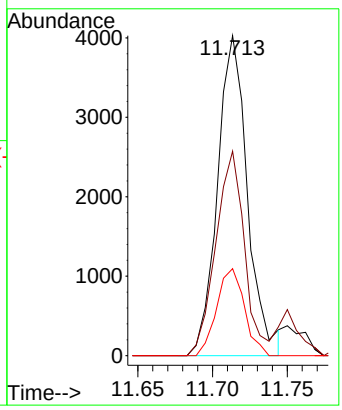




#83
tert-Butylbenzene
Concen: 0.937 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:119 Resp: 562

Ion	Ratio	Lower	Upper
119	100		
91	61.3	29.1	87.4
134	25.2	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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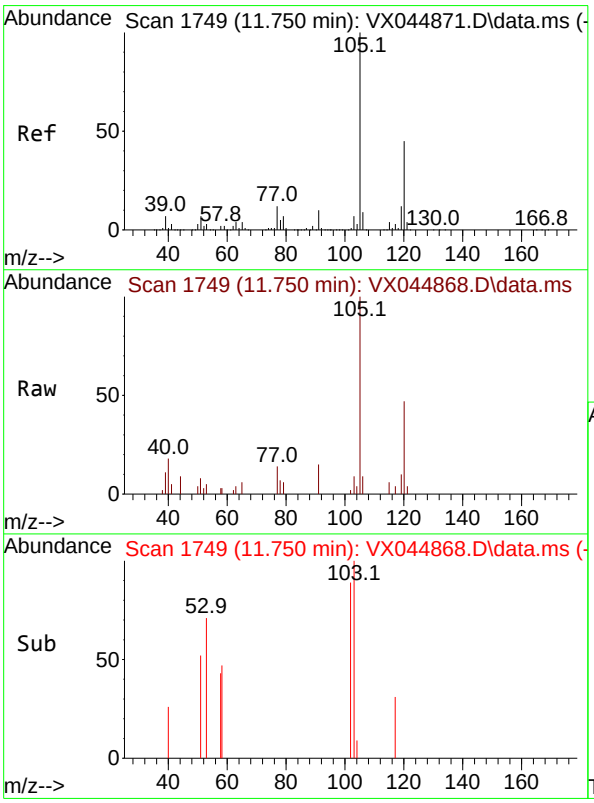
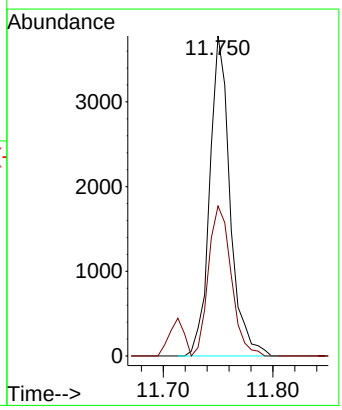
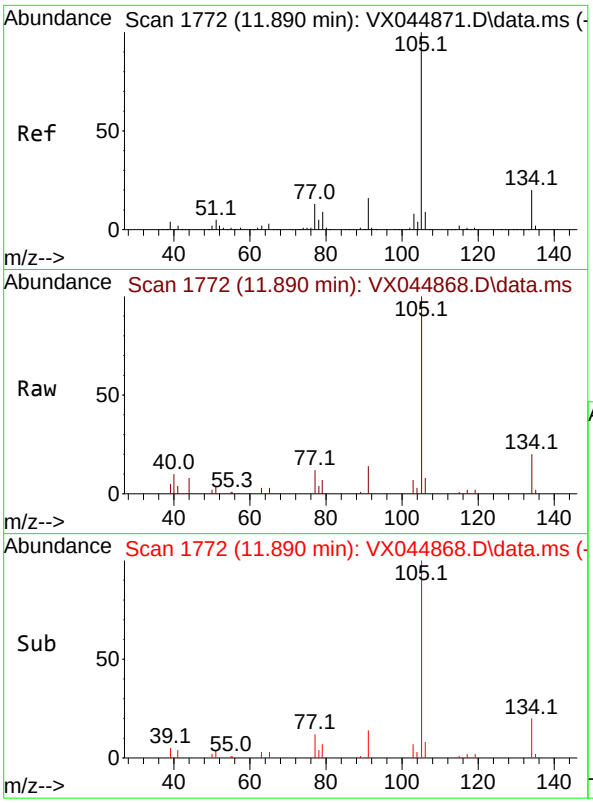


#84
1,2,4-Trimethylbenzene
Concen: 0.833 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 4876

Ion	Ratio	Lower	Upper
105	100		
120	52.4	22.4	67.0

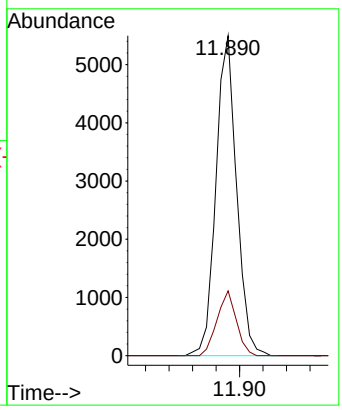




#85
sec-Butylbenzene
Concen: 0.902 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 670

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 02/11/2025
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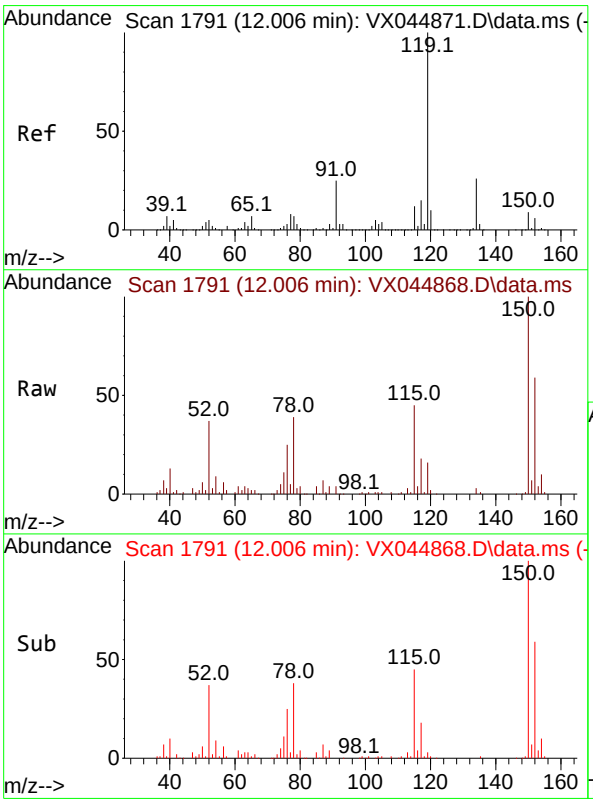
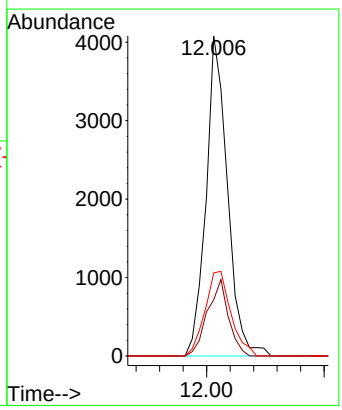
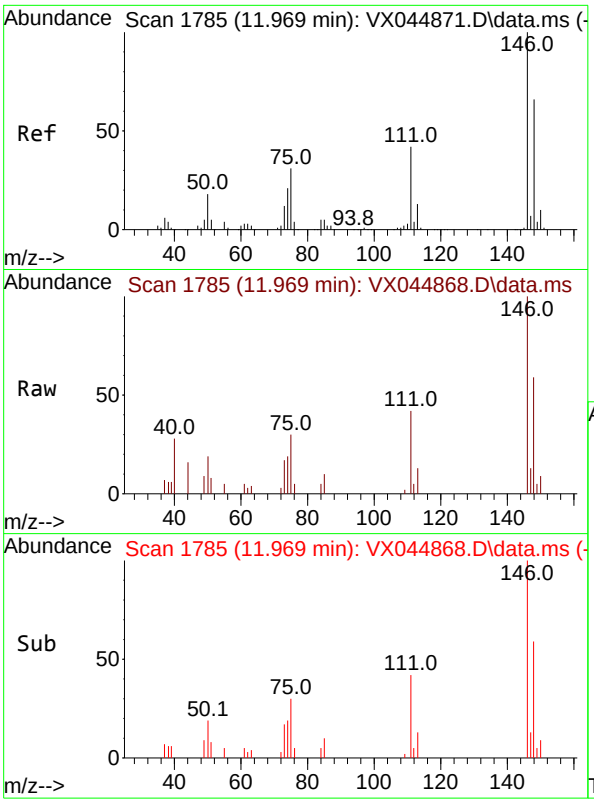


#86
p-Isopropyltoluene
Concen: 0.864 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:119 Resp: 5161

Ion	Ratio	Lower	Upper
119	100		
134	23.4	13.0	38.9
91	32.0	12.1	36.3

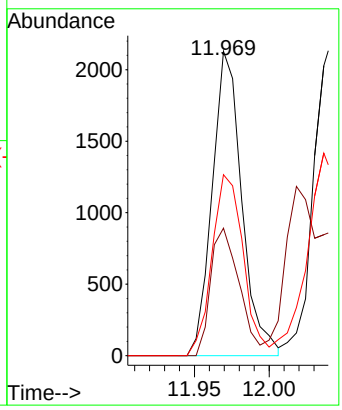




#87
1,3-Dichlorobenzene
Concen: 0.963 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:146 Resp: 293

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.2	63.6
148	62.8	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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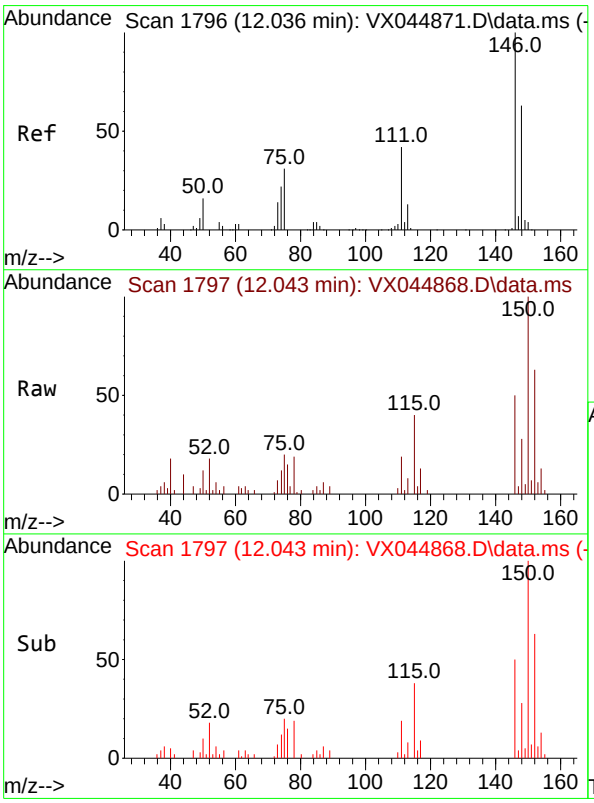
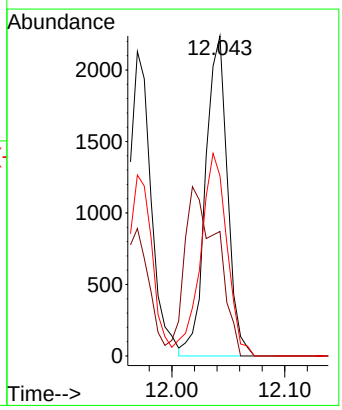
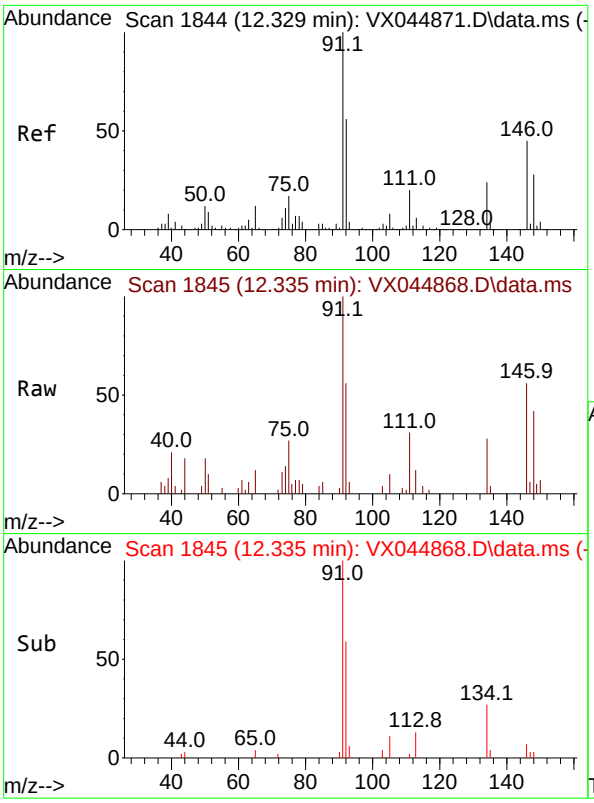


#88
1,4-Dichlorobenzene
Concen: 0.979 ug/l m
RT: 12.043 min Scan# 1797
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:146 Resp: 3016

Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.4	61.3
148	61.0	32.0	96.0

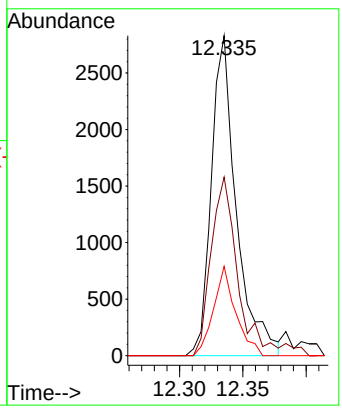




#89
n-Butylbenzene
Concen: 0.734 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 388

Ion	Ratio	Lower	Upper
91	100		
92	60.9	27.2	81.6
134	24.8	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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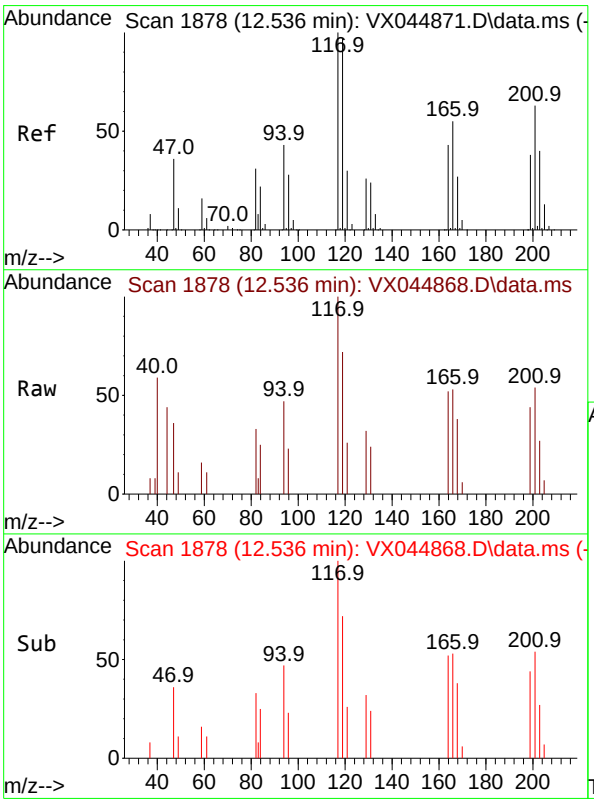
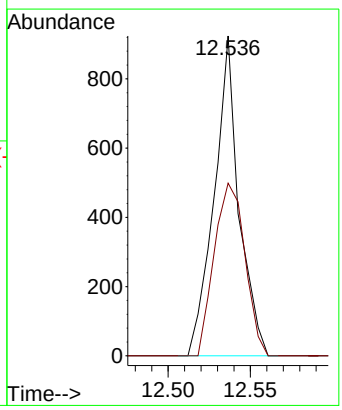
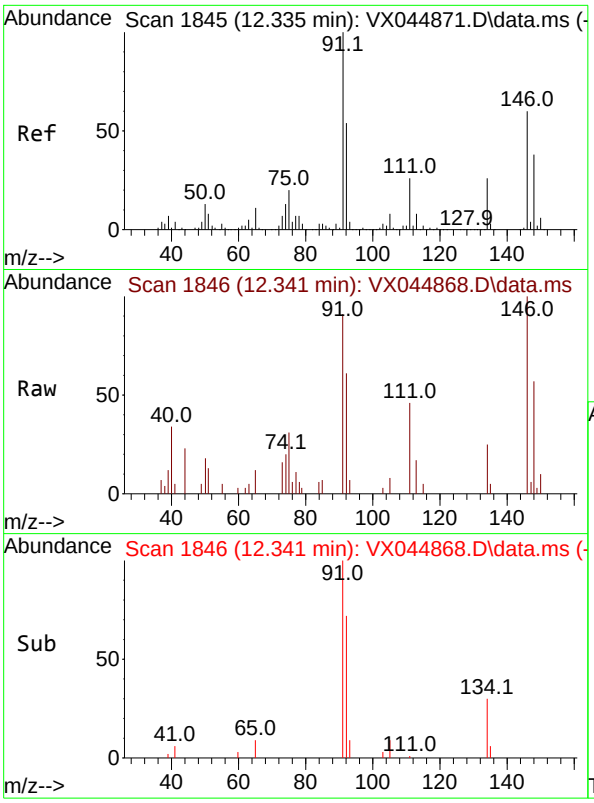


#90
Hexachloroethane
Concen: 0.866 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 968

Ion	Ratio	Lower	Upper
117	100		
201	66.8	32.5	97.5

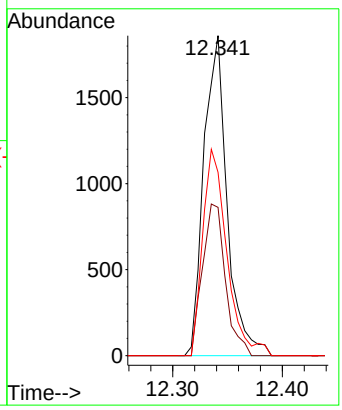




#91
1,2-Dichlorobenzene
Concen: 0.917 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:146 Resp: 274

Ion	Ratio	Lower	Upper
146	100		
111	46.7	21.8	65.4
148	67.2	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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Reviewed By :John Carlone 02/11/2025
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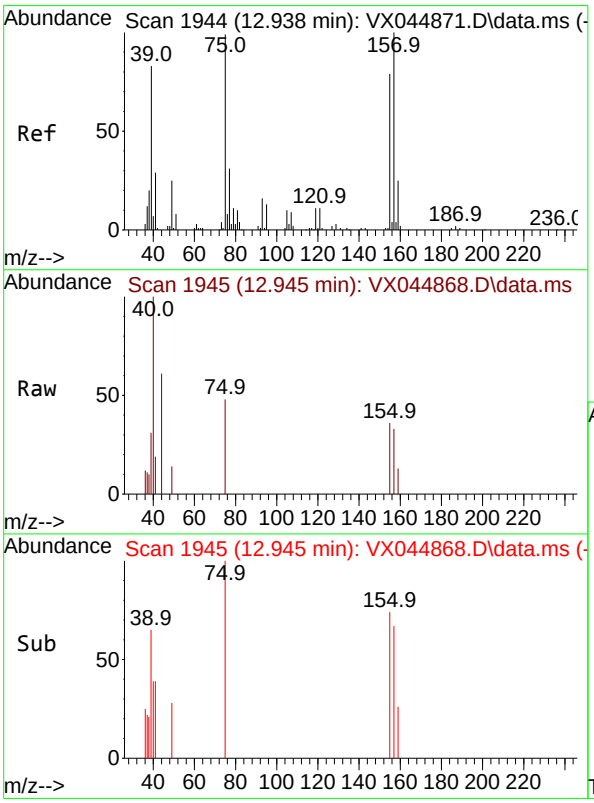
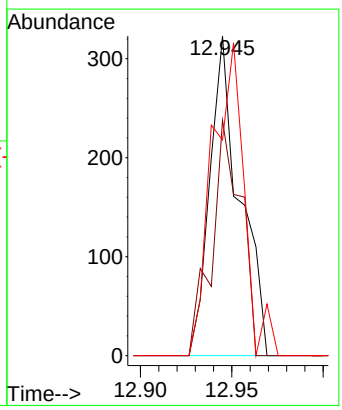
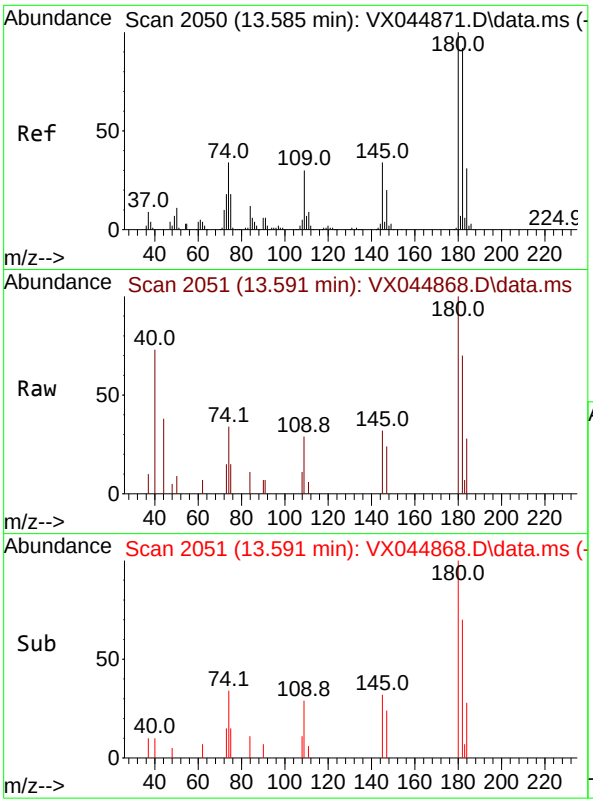


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.801 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 367

Ion	Ratio	Lower	Upper
75	100		
155	71.7	40.5	121.4
157	104.1	51.4	154.3

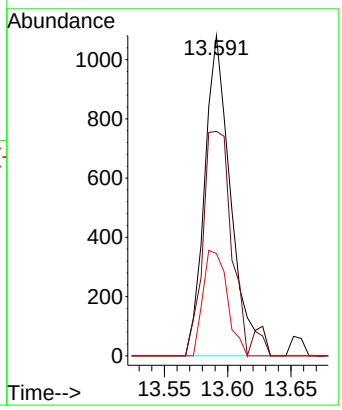




#93
1,2,4-Trichlorobenzene
Concen: 0.861 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:180 Resp: 156

Ion	Ratio	Lower	Upper
180	100		
182	78.7	47.6	142.8
145	30.4	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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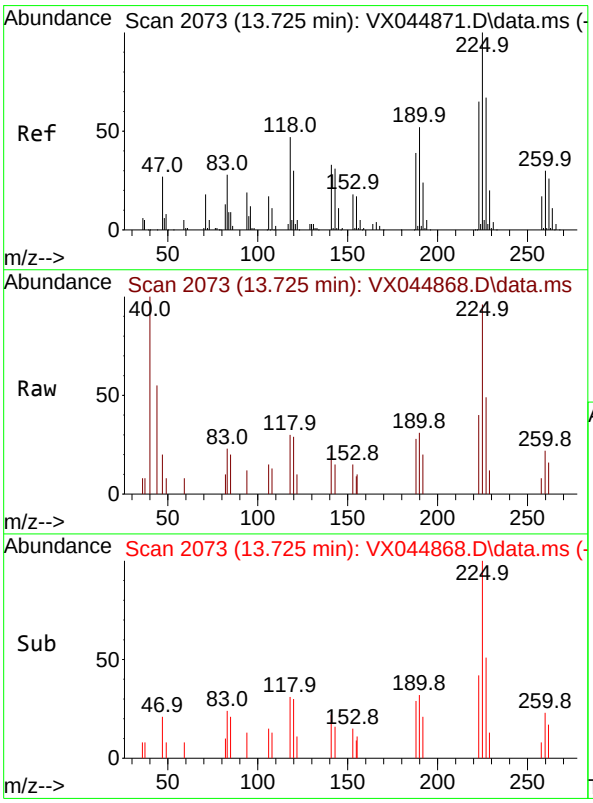
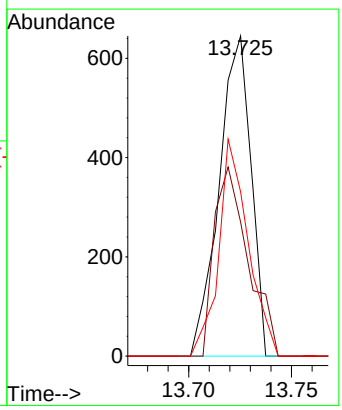
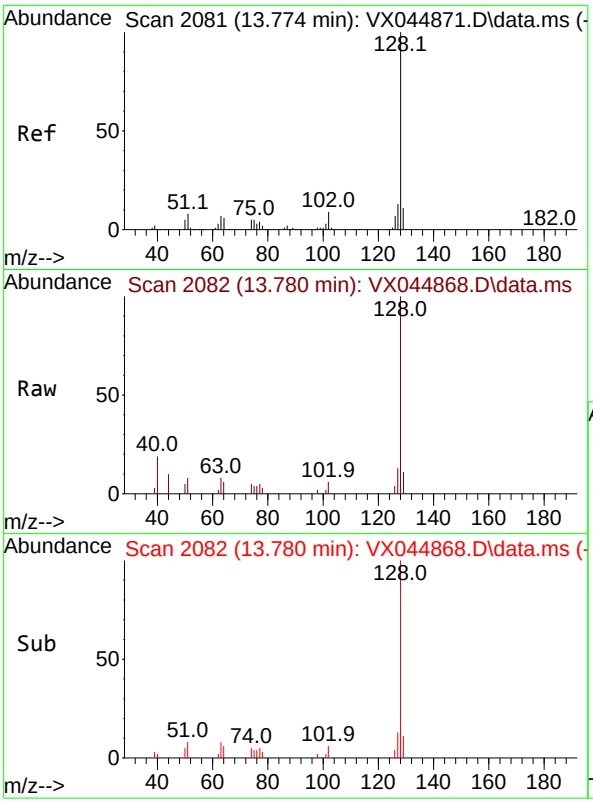


#94
Hexachlorobutadiene
Concen: 0.966 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:225 Resp: 695

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.4	94.2
227	62.6	32.3	96.8

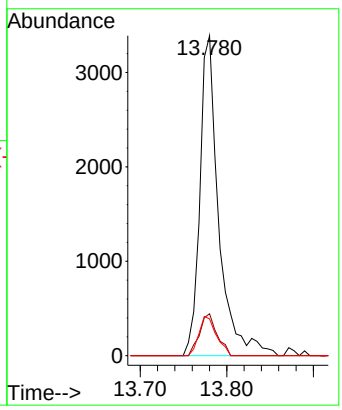




#95
Naphthalene
Concen: 0.783 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:128 Resp: 512

Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.1	15.1
129	11.3	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/11/2025
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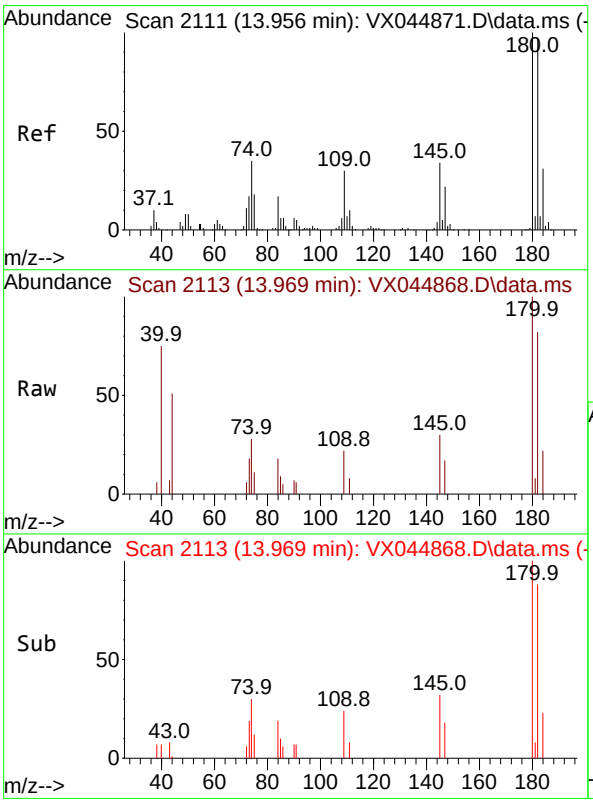
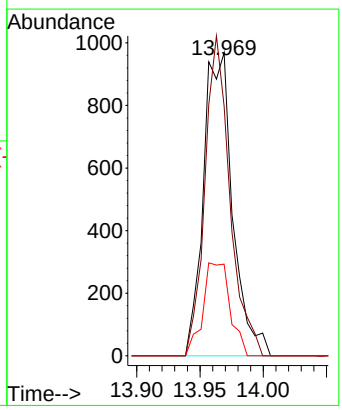


#96
1,2,3-Trichlorobenzene
Concen: 0.853 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:180 Resp: 1557

Ion	Ratio	Lower	Upper
180	100		
182	90.0	47.9	143.6
145	28.5	17.1	51.3



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Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 11 03:36:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	136105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	253314	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95494	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	10397	5.219	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.440%#		
35) Dibromofluoromethane	5.385	113	8482	5.150	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.300%#		
50) Toluene-d8	8.647	98	31381	5.039	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.080%#		
62) 4-Bromofluorobenzene	11.079	95	10229	4.872	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.740%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	9109	4.772	ug/l	94
3) Chloromethane	1.301	50	11711	5.041	ug/l	97
4) Vinyl Chloride	1.374	62	11509	5.113	ug/l	94
5) Bromomethane	1.593	94	3371	5.005	ug/l	89
6) Chloroethane	1.660	64	3918m	4.973	ug/l	
7) Trichlorofluoromethane	1.868	101	14506	5.096	ug/l	100
8) Diethyl Ether	2.136	74	5062	4.904	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	8805	5.120	ug/l	98
10) Methyl Iodide	2.447	142	10233	4.591	ug/l	99
11) Tert butyl alcohol	2.983	59	10044	27.175	ug/l	100
12) 1,1-Dichloroethene	2.307	96	8692	4.955	ug/l	95
13) Acrolein	2.239	56	9750	25.567	ug/l	98
14) Allyl chloride	2.660	41	15649	4.936	ug/l	98
15) Acrylonitrile	3.062	53	24101	24.422	ug/l	98
16) Acetone	2.386	43	19877	24.817	ug/l	99
17) Carbon Disulfide	2.502	76	23568	4.899	ug/l	98
18) Methyl Acetate	2.703	43	12257	4.850	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	28100	5.034	ug/l	99
20) Methylene Chloride	2.782	84	9757	4.973	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	8470	4.906	ug/l	94
22) Diisopropyl ether	3.757	45	29768	4.963	ug/l #	80
23) Vinyl Acetate	3.721	43	119108	24.358	ug/l	98
24) 1,1-Dichloroethane	3.605	63	17113	5.099	ug/l	98
25) 2-Butanone	4.568	43	32121	24.698	ug/l	98
26) 2,2-Dichloropropane	4.459	77	13365	5.022	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	10662	5.141	ug/l	95
28) Bromochloromethane	4.898	49	7881	4.886	ug/l #	96
29) Tetrahydrofuran	5.013	42	21097	24.429	ug/l	98
30) Chloroform	5.087	83	16449	5.054	ug/l	98
31) Cyclohexane	5.464	56	15705	5.076	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	13658	4.947	ug/l	98
36) 1,1-Dichloropropene	5.684	75	11835	4.981	ug/l	98
37) Ethyl Acetate	4.721	43	13530	5.122	ug/l	99
38) Carbon Tetrachloride	5.672	117	11797	5.066	ug/l	97
39) Methylcyclohexane	7.373	83	14472	4.711	ug/l	96
40) Benzene	6.038	78	37687	5.079	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 11 03:36:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	6648	4.699	ug/l		96
42) 1,2-Dichloroethane	6.086	62	11789	4.985	ug/l		100
43) Isopropyl Acetate	6.342	43	19803	4.640	ug/l		99
44) Trichloroethene	7.123	130	8614	5.079	ug/l		95
45) 1,2-Dichloropropane	7.428	63	8976	4.863	ug/l		98
46) Dibromomethane	7.586	93	6210	4.851	ug/l		95
47) Bromodichloromethane	7.818	83	12173	4.911	ug/l		94
48) Methyl methacrylate	7.702	41	9298	4.620	ug/l		98
49) 1,4-Dioxane	7.678	88	4365	101.099	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	65064	25.076	ug/l		100
52) Toluene	8.720	92	22090	4.999	ug/l		96
53) t-1,3-Dichloropropene	8.976	75	11413	4.550	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	12943	4.628	ug/l	#	88
55) 1,1,2-Trichloroethane	9.153	97	8662	5.099	ug/l		98
56) Ethyl methacrylate	9.116	69	12351	4.502	ug/l		96
57) 1,3-Dichloropropane	9.305	76	14839	4.993	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	31498	23.382	ug/l		99
59) 2-Hexanone	9.433	43	45538	24.359	ug/l		99
60) Dibromochloromethane	9.519	129	8668	4.771	ug/l		99
61) 1,2-Dibromoethane	9.610	107	8353	4.852	ug/l		96
64) Tetrachloroethene	9.269	164	6803	4.934	ug/l		95
65) Chlorobenzene	10.079	112	23903	5.090	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	7380	4.883	ug/l		97
67) Ethyl Benzene	10.189	91	40945	4.941	ug/l		97
68) m/p-Xylenes	10.299	106	30627	10.019	ug/l		100
69) o-Xylene	10.640	106	15761	5.139	ug/l		98
70) Styrene	10.653	104	24576	4.973	ug/l		99
71) Bromoform	10.799	173	5391	4.779	ug/l	#	97
73) Isopropylbenzene	10.957	105	38315	4.983	ug/l		100
74) N-amyl acetate	10.842	43	16653	4.786	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	13394	5.069	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	11011m	5.201	ug/l		
77) Bromobenzene	11.195	156	8789	5.042	ug/l		97
78) n-propylbenzene	11.305	91	43923	4.949	ug/l		99
79) 2-Chlorotoluene	11.360	91	27311	5.007	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	31761	5.090	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	3303	4.013	ug/l		87
82) 4-Chlorotoluene	11.451	91	30138	4.994	ug/l		99
83) tert-Butylbenzene	11.713	119	31992	5.068	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	31053	5.042	ug/l		98
85) sec-Butylbenzene	11.890	105	38437	4.917	ug/l		98
86) p-Isopropyltoluene	12.006	119	30835	4.905	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	15935	4.971	ug/l		95
88) 1,4-Dichlorobenzene	12.036	146	16347	5.043	ug/l		95
89) n-Butylbenzene	12.329	91	25747	4.630	ug/l		97
90) Hexachloroethane	12.536	117	5620	4.775	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	16362	5.193	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2254	4.674	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	8923	4.680	ug/l		99
94) Hexachlorobutadiene	13.719	225	3595	4.750	ug/l		99
95) Naphthalene	13.774	128	32776	4.756	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	9093	4.733	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 03:36:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

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

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

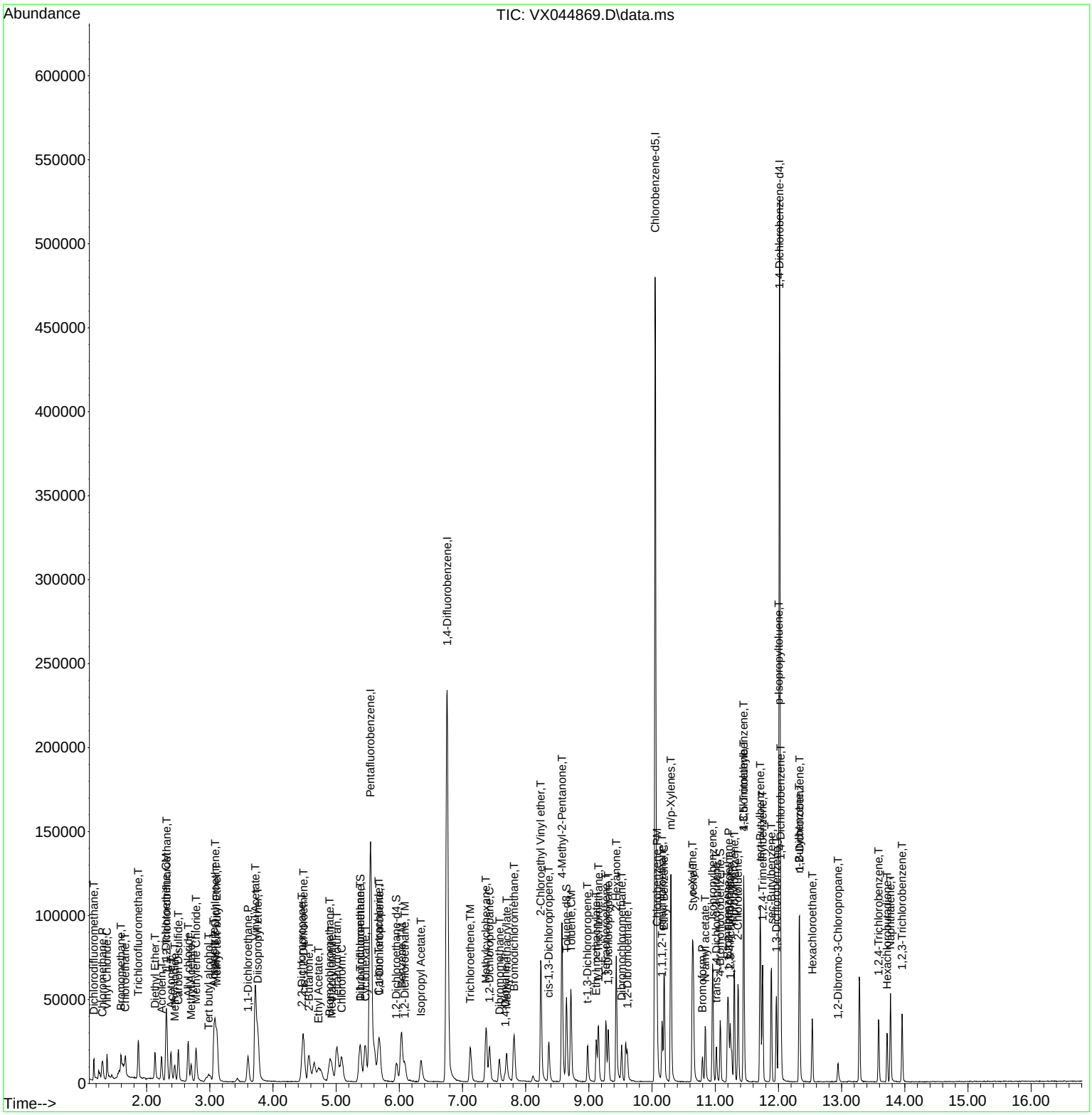
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

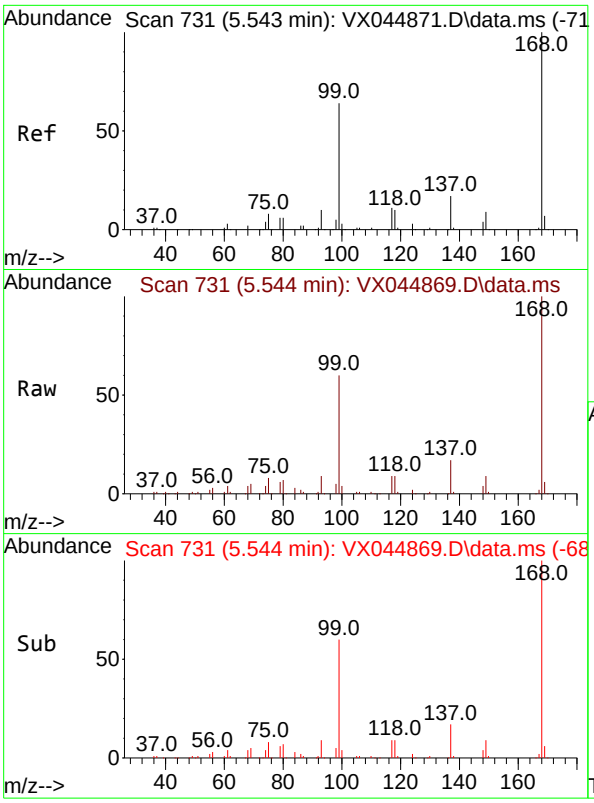
Quant Time: Feb 11 03:36:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

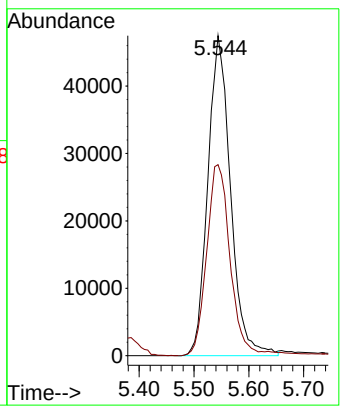




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:168 Resp: 13610

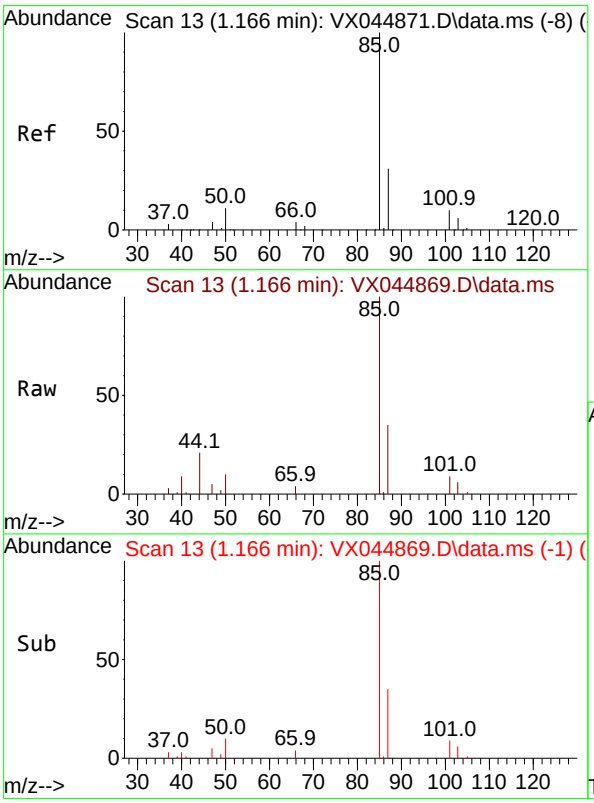
Ion	Ratio	Lower	Upper
168	100		
99	59.7	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

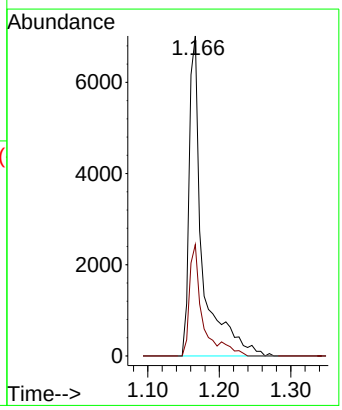
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

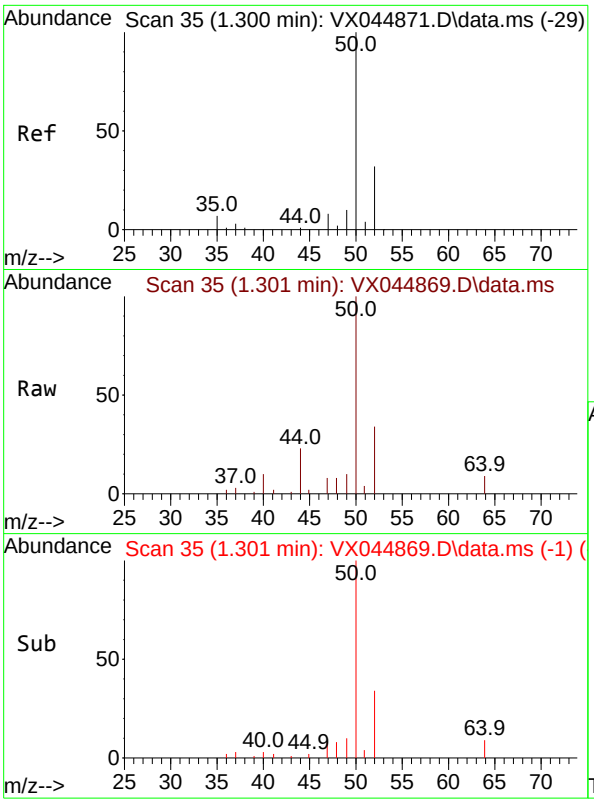


#2
Dichlorodifluoromethane
Concen: 4.772 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 85 Resp: 9109

Ion	Ratio	Lower	Upper
85	100		
87	34.8	15.8	47.3

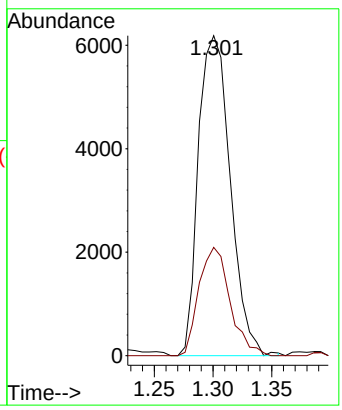




#3
Chloromethane
Concen: 5.041 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 50 Resp: 1171

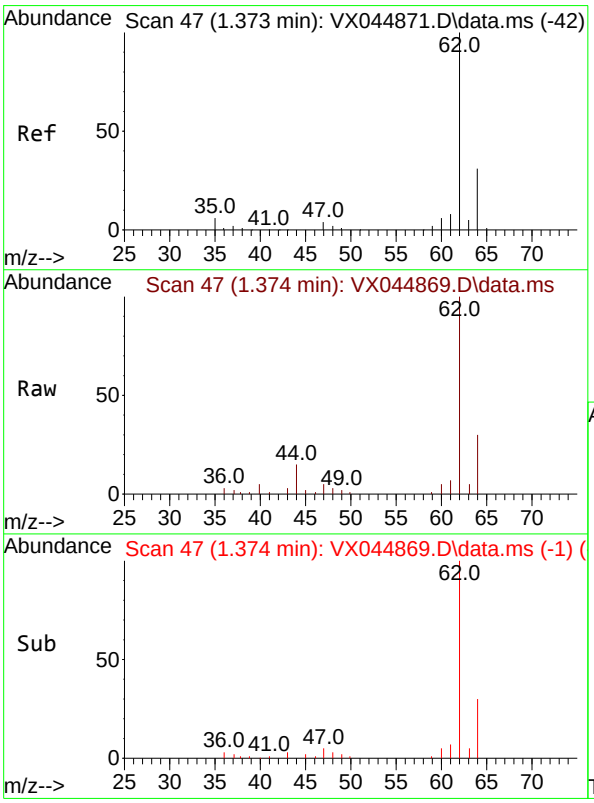
Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

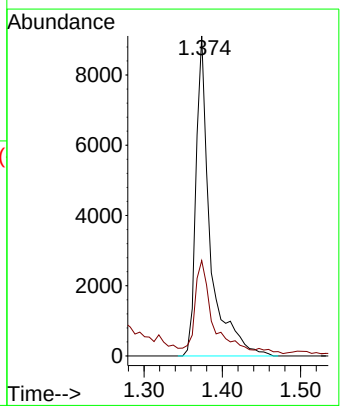
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

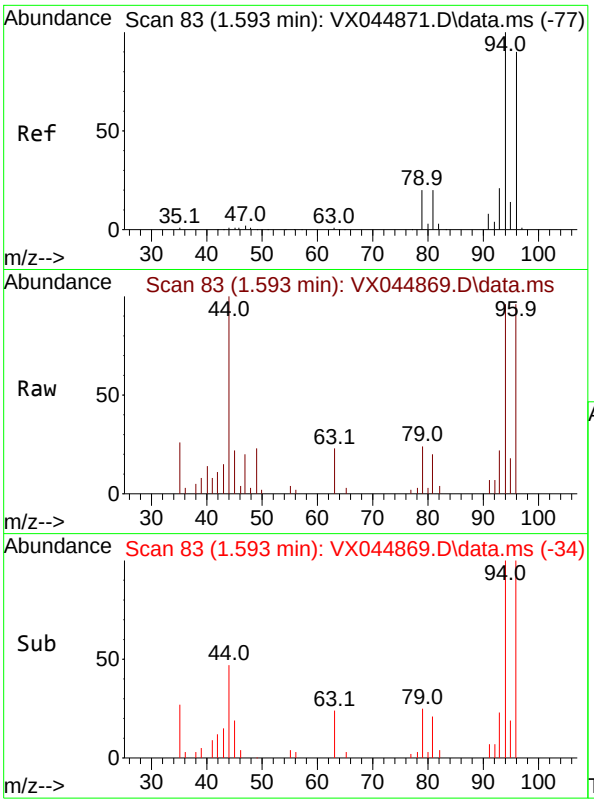


#4
Vinyl Chloride
Concen: 5.113 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11509

Ion	Ratio	Lower	Upper
62	100		
64	28.4	25.4	38.0

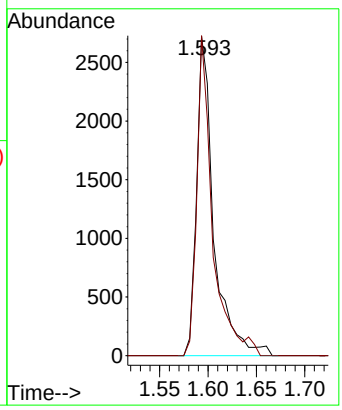




#5
Bromomethane
Concen: 5.005 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 94 Resp: 337

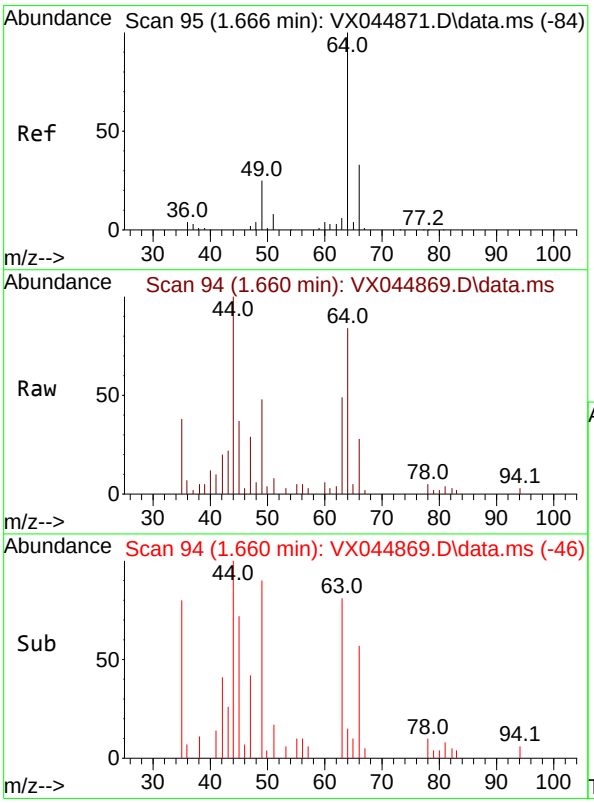
Ion	Ratio	Lower	Upper
94	100		
96	100.2	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

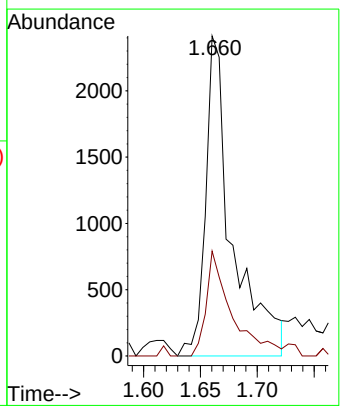
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

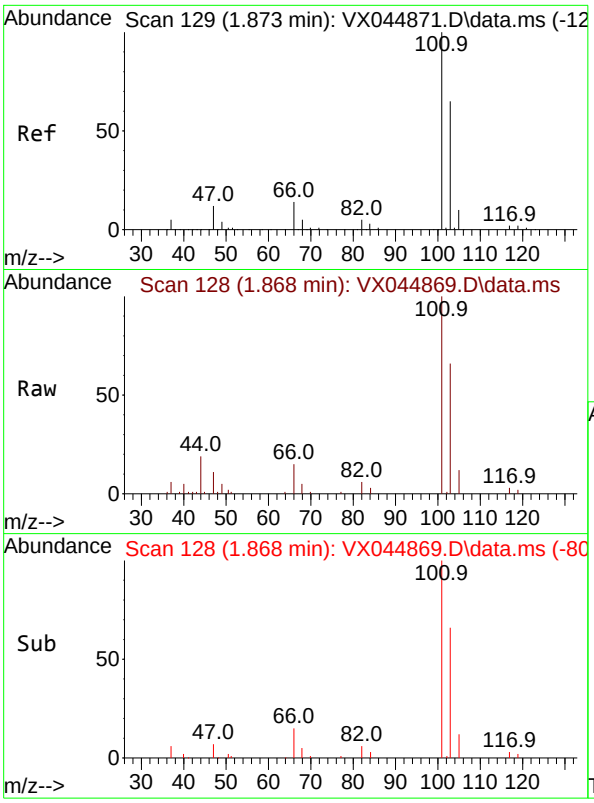


#6
Chloroethane
Concen: 4.973 ug/l m
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 64 Resp: 3918

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.9	38.9

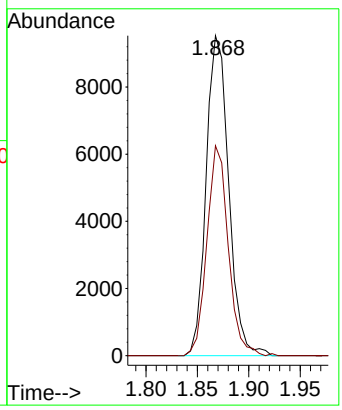




#7
Trichlorofluoromethane
Concen: 5.096 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.005 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:101 Resp: 1450

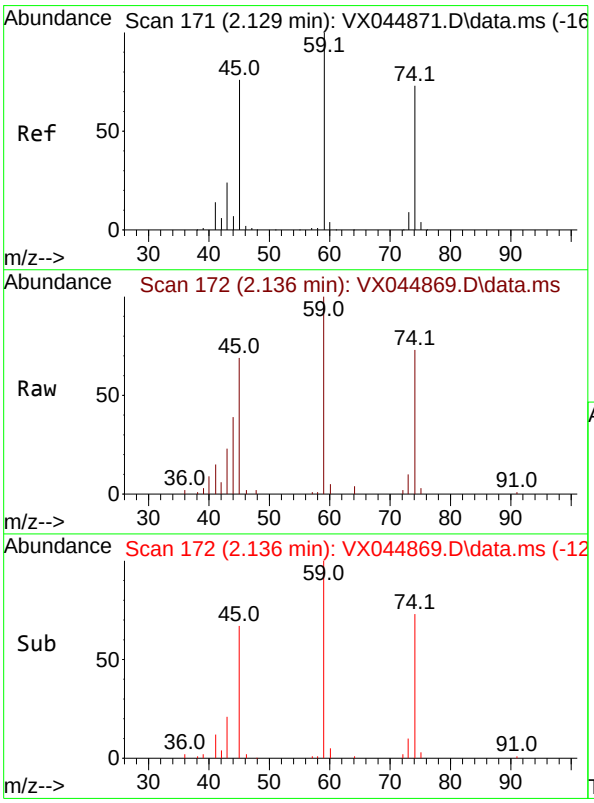
Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

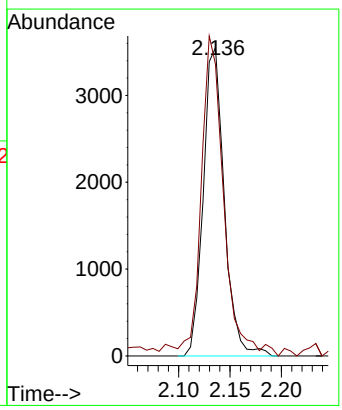
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

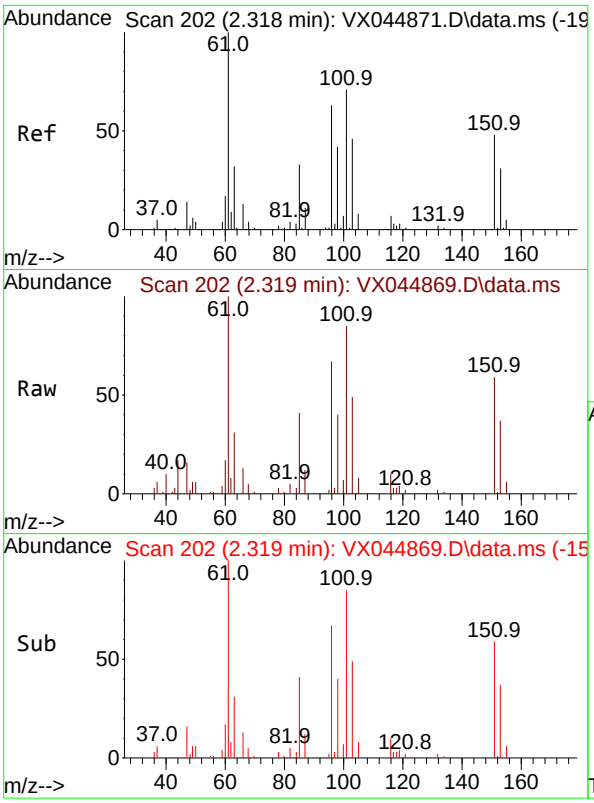


#8
Diethyl Ether
Concen: 4.904 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.007 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 74 Resp: 5062

Ion	Ratio	Lower	Upper
74	100		
45	112.2	51.1	153.4

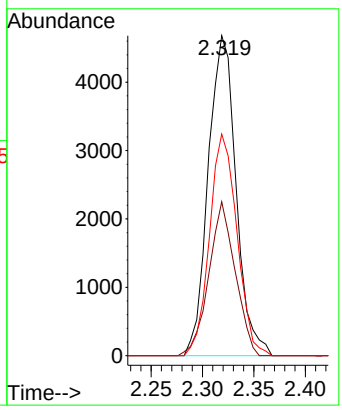




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.120 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:101 Resp: 880

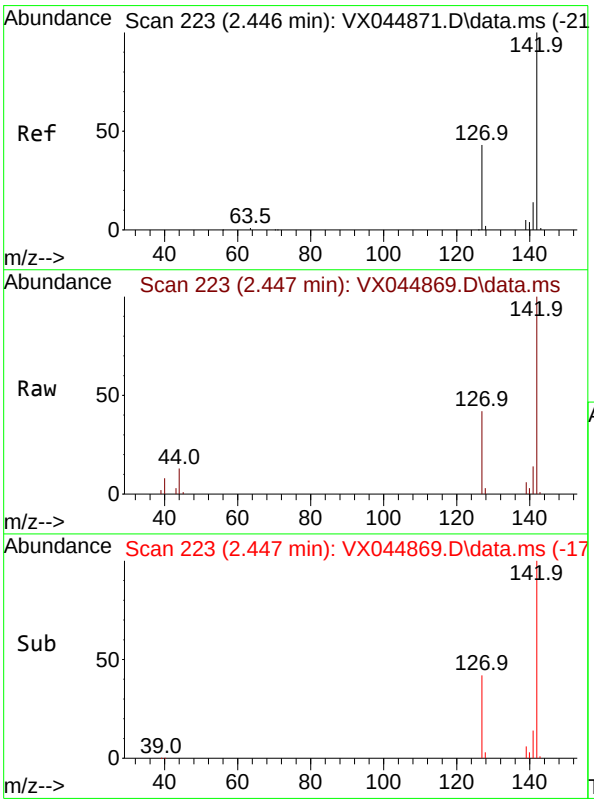
Ion	Ratio	Lower	Upper
101	100		
85	45.5	35.7	53.5
151	68.3	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

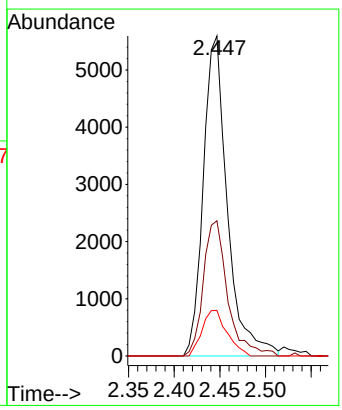
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

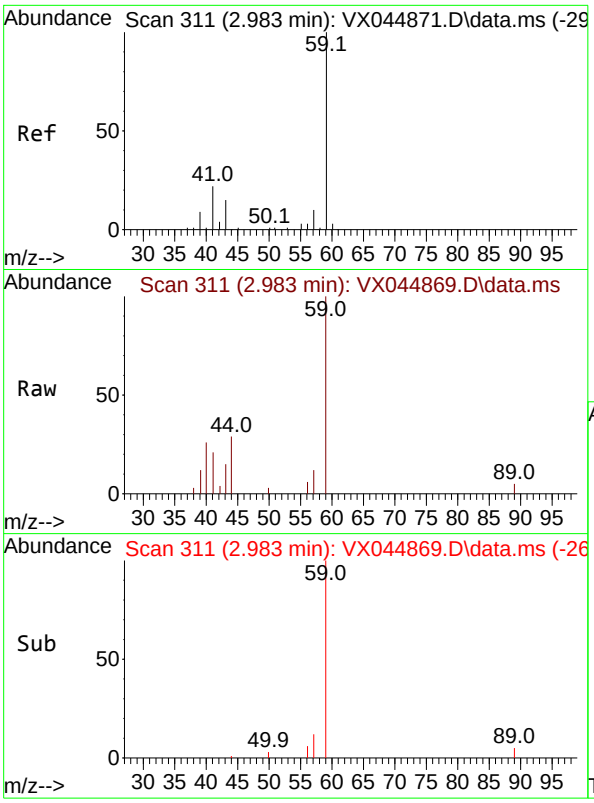


#10
Methyl Iodide
Concen: 4.591 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:142 Resp: 10233

Ion	Ratio	Lower	Upper
142	100		
127	42.7	34.3	51.5
141	14.8	11.4	17.2

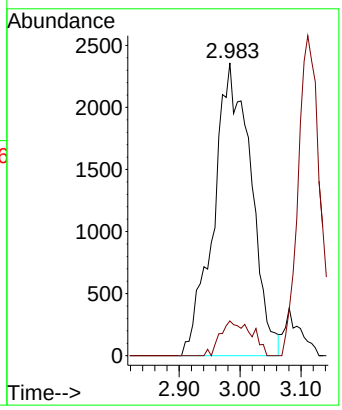




#11
Tert butyl alcohol
Concen: 27.175 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 59 Resp: 1004

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
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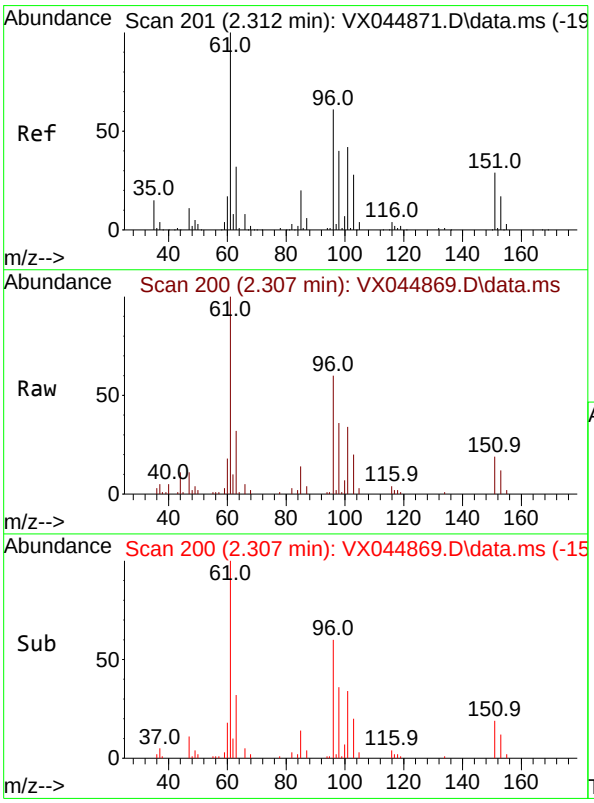
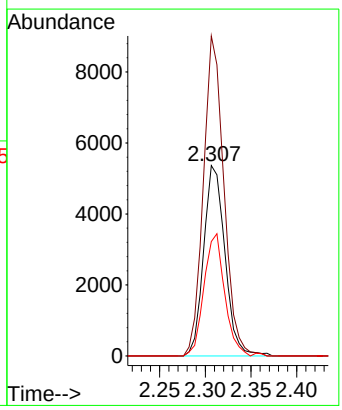
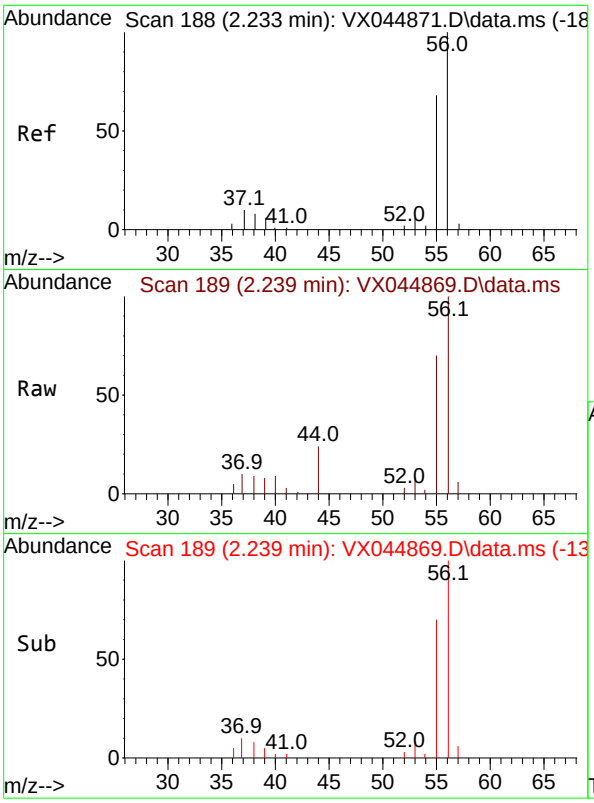


#12
1,1-Dichloroethene
Concen: 4.955 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 96 Resp: 8692

Ion	Ratio	Lower	Upper
96	100		
61	168.0	130.2	195.4
98	60.1	52.2	78.4

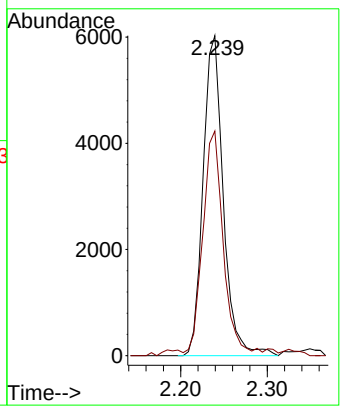




#13
Acrolein
Concen: 25.567 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 56 Resp: 975

Ion	Ratio	Lower	Upper
56	100		
55	71.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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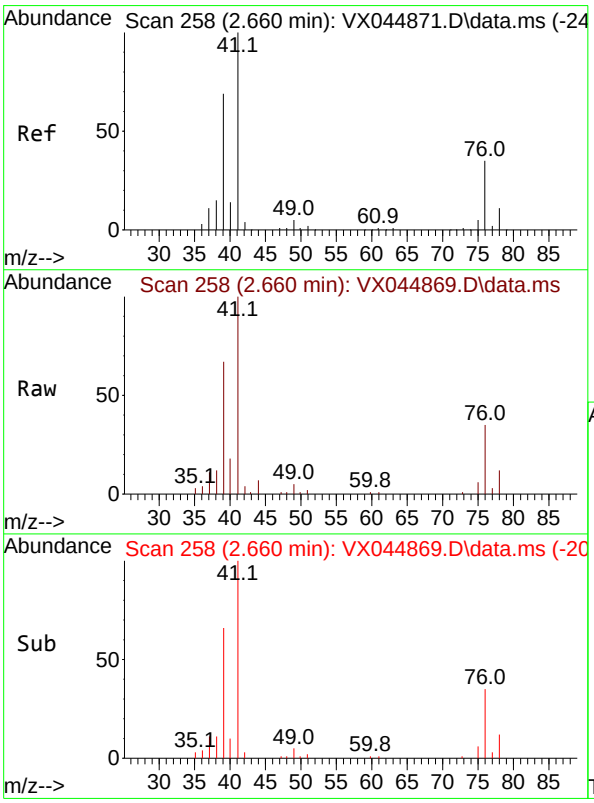
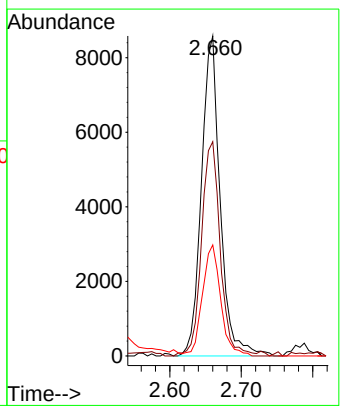
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

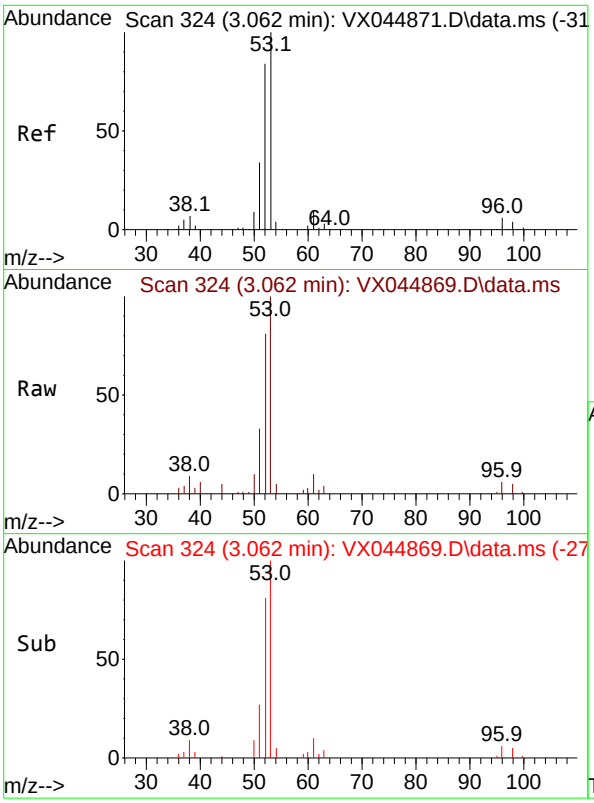


#14
Allyl chloride
Concen: 4.936 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 15649

Ion	Ratio	Lower	Upper
41	100		
39	66.7	51.4	77.2
76	33.9	27.0	40.4

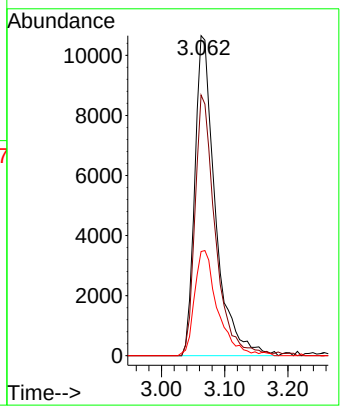




#15
Acrylonitrile
Concen: 24.422 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 53 Resp: 2410

Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	36.6	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 02/11/2025
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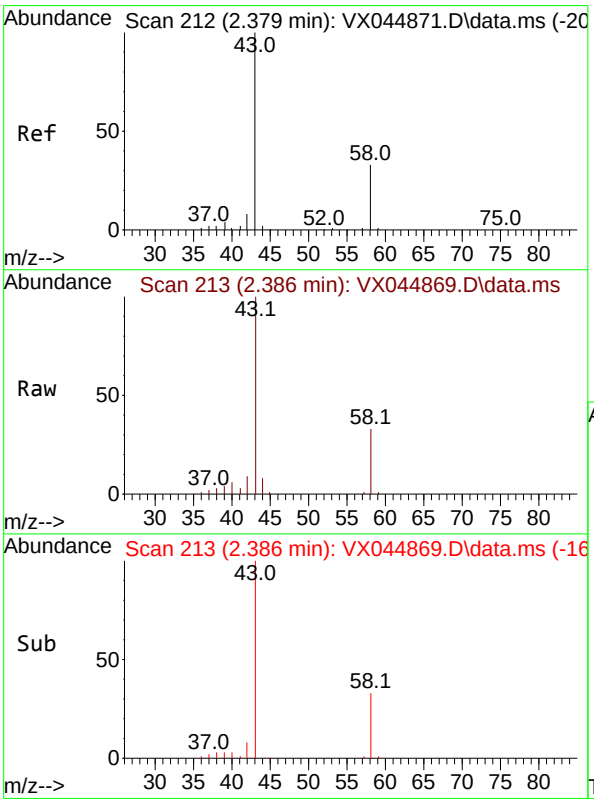
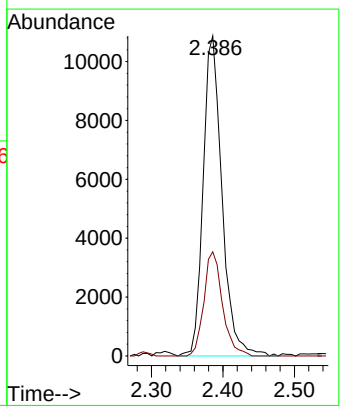
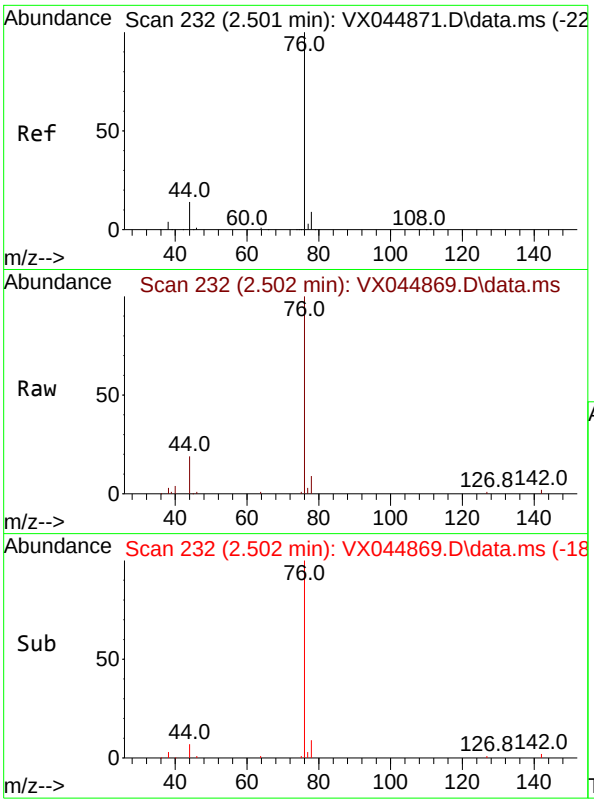


#16
Acetone
Concen: 24.817 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 19877

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7

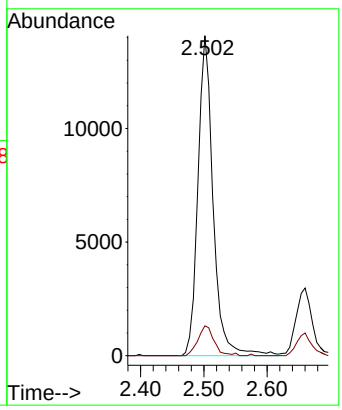




#17
Carbon Disulfide
Concen: 4.899 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 76 Resp: 2356

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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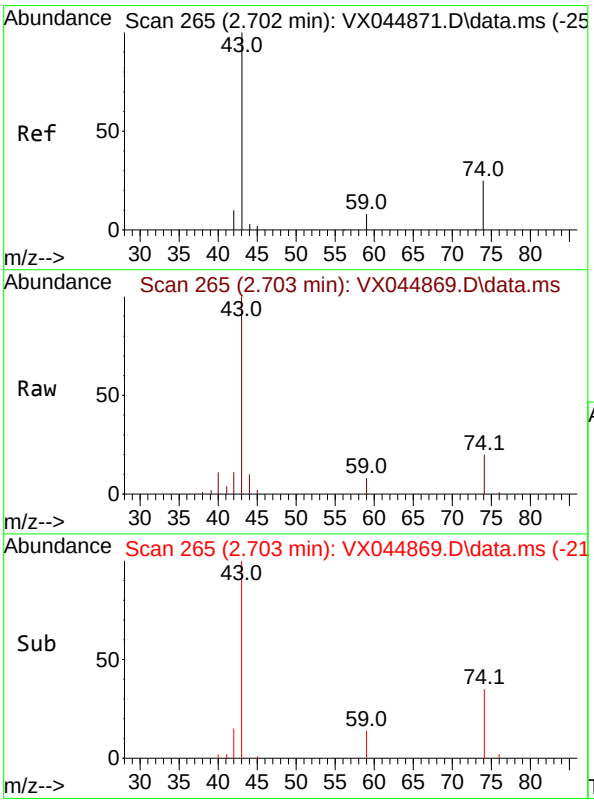
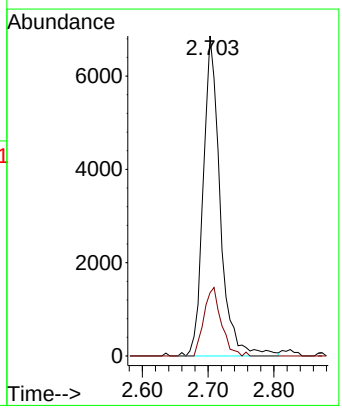
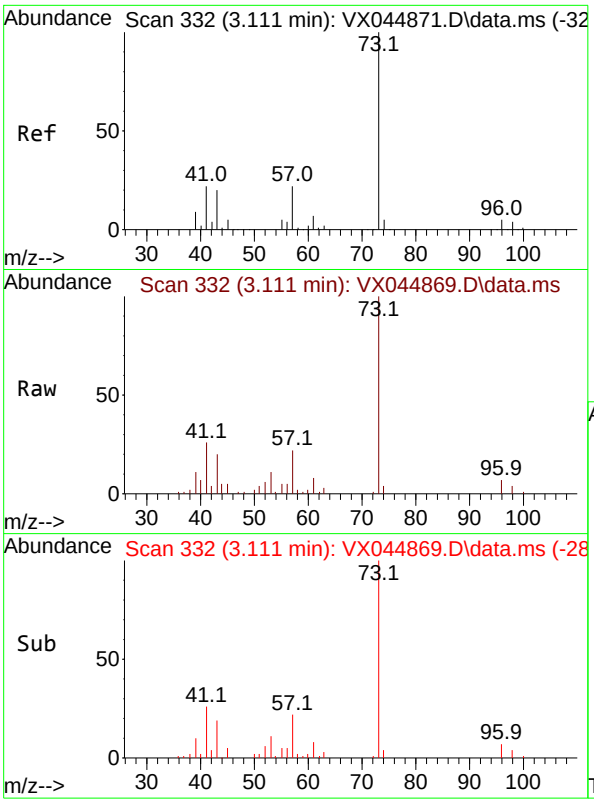


#18
Methyl Acetate
Concen: 4.850 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 12257

Ion	Ratio	Lower	Upper
43	100		
74	22.0	18.9	28.3

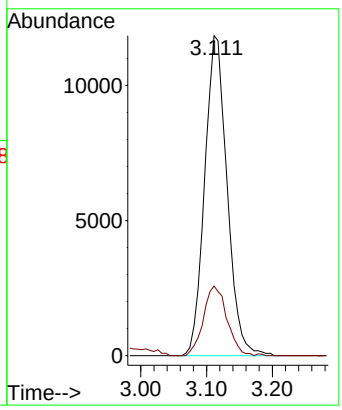




#19
Methyl tert-butyl Ether
Concen: 5.034 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 73 Resp: 2810

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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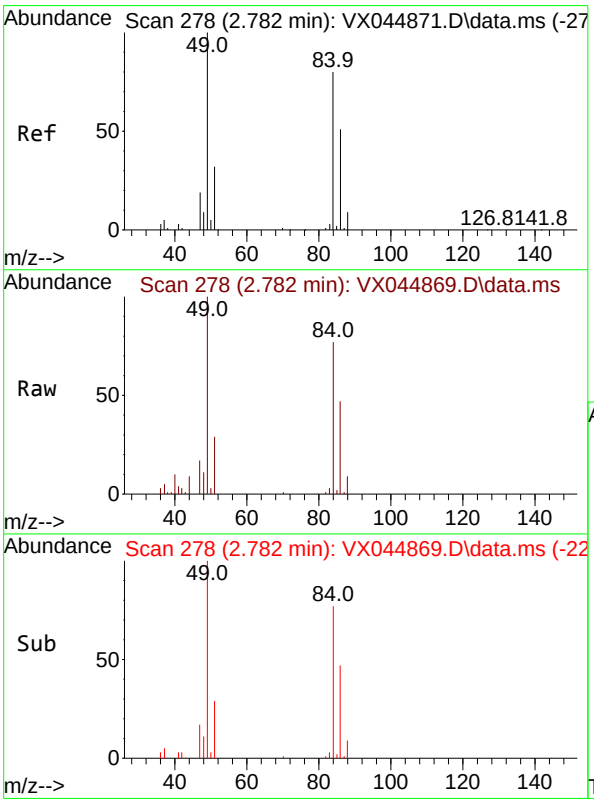
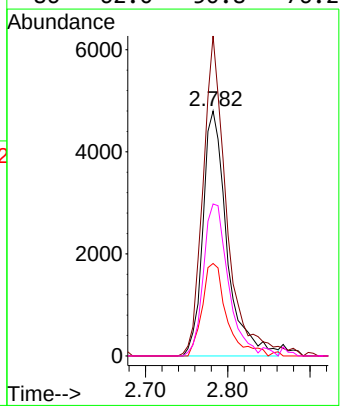
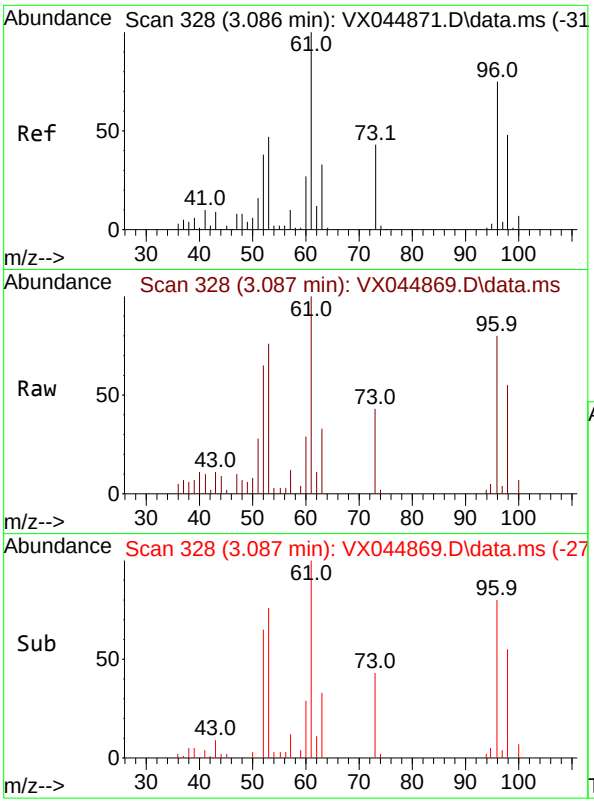


#20
Methylene Chloride
Concen: 4.973 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 84 Resp: 9757

Ion	Ratio	Lower	Upper
84	100		
49	130.7	100.1	150.1
51	37.7	31.7	47.5
86	62.0	50.8	76.2





#21
trans-1,2-Dichloroethene
Concen: 4.906 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 96 Resp: 847

Ion	Ratio	Lower	Upper
96	100		
61	125.5	106.0	159.0
98	68.5	50.6	76.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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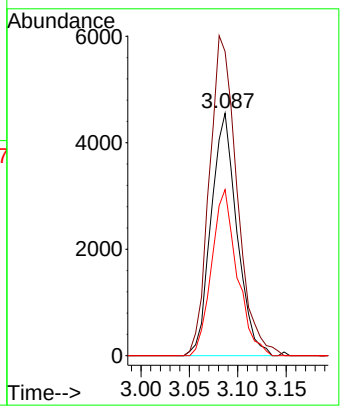
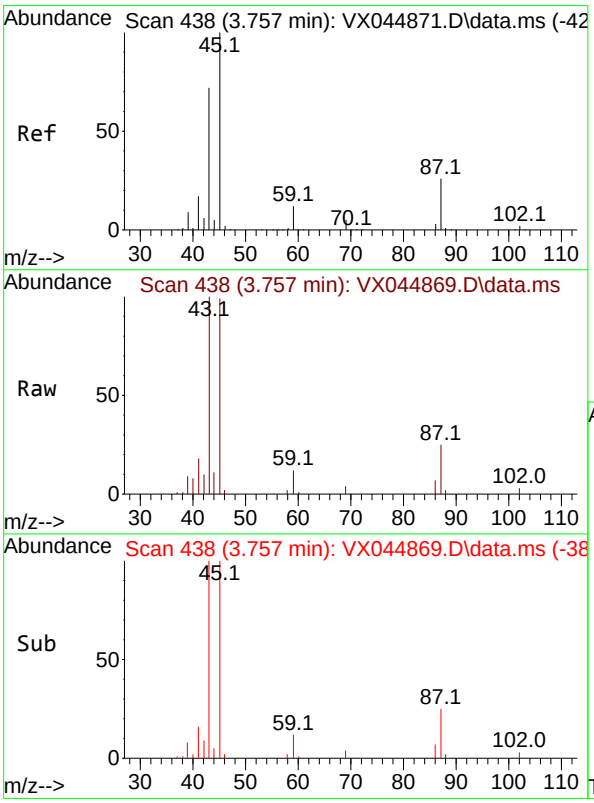
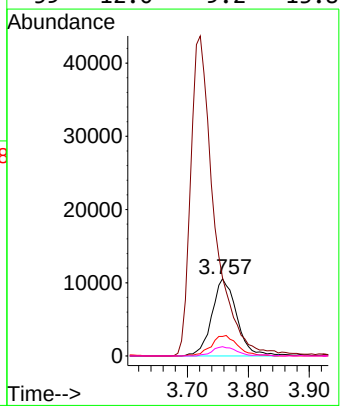


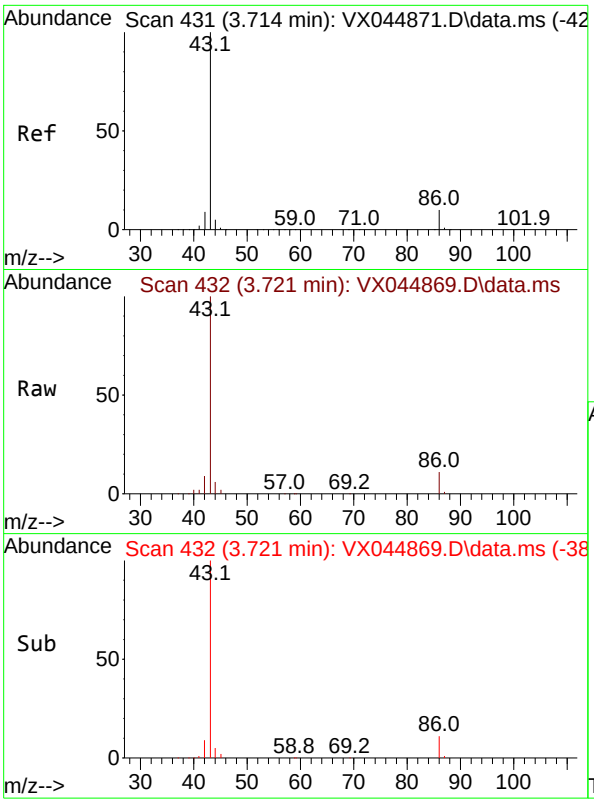


#22
Diisopropyl ether
Concen: 4.963 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 45 Resp: 29768

Ion	Ratio	Lower	Upper
45	100		
43	97.8	58.0	87.0#
87	25.2	20.7	31.1
59	12.0	9.2	13.8

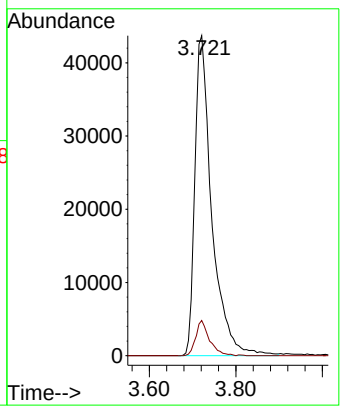




#23
Vinyl Acetate
Concen: 24.358 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 11910

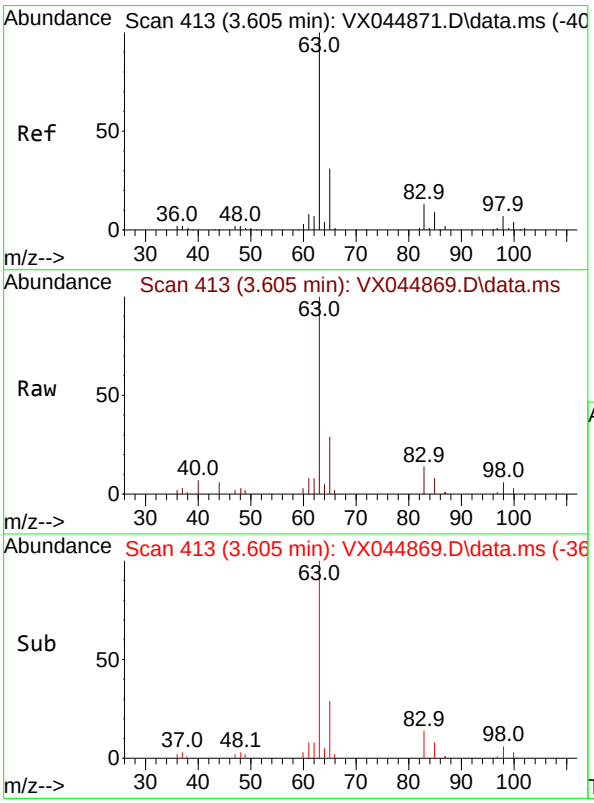
Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

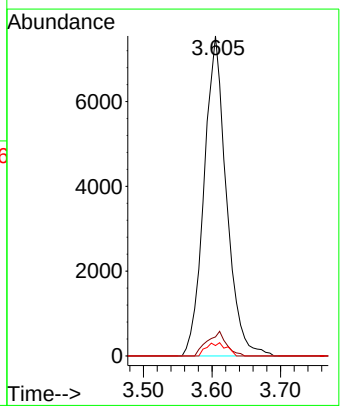
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

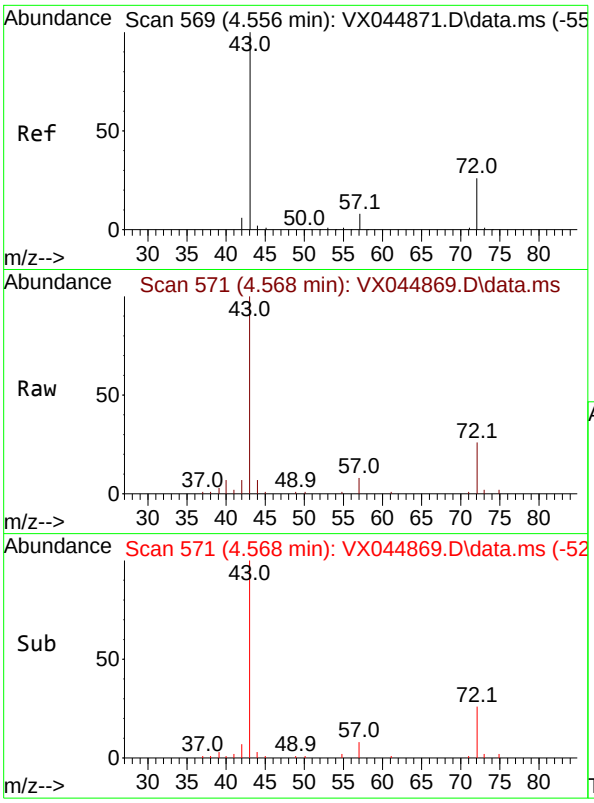


#24
1,1-Dichloroethane
Concen: 5.099 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 17113

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.3	9.9
100	3.2	2.1	6.5

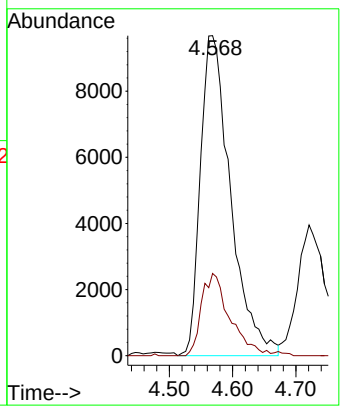




#25
2-Butanone
Concen: 24.698 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 3212

Ion	Ratio	Lower	Upper
43	100		
72	25.7	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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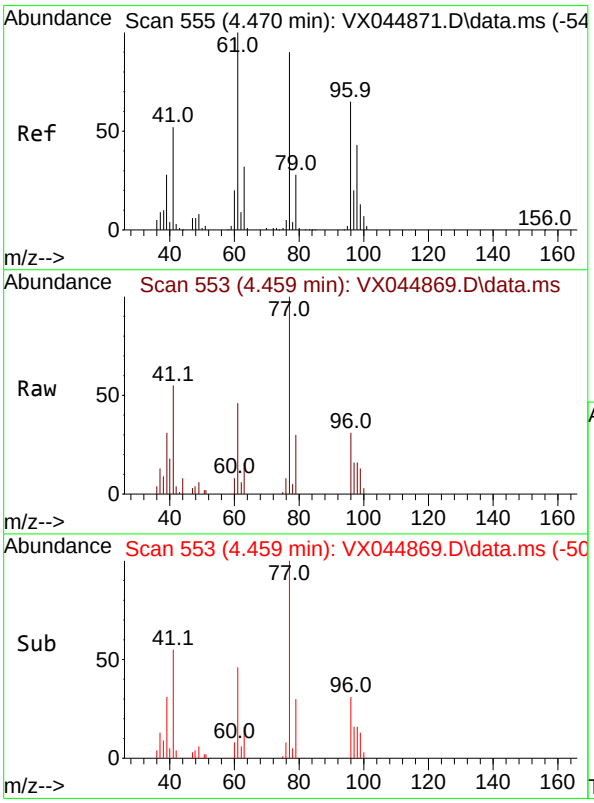
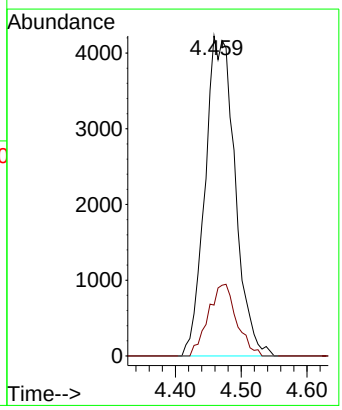
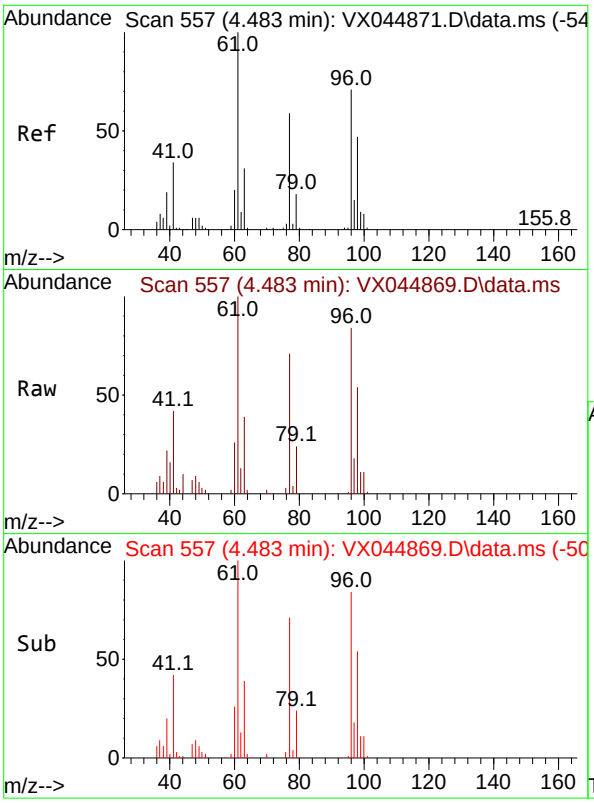


#26
2,2-Dichloropropane
Concen: 5.022 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 77 Resp: 13365

Ion	Ratio	Lower	Upper
77	100		
97	21.2	11.8	35.3

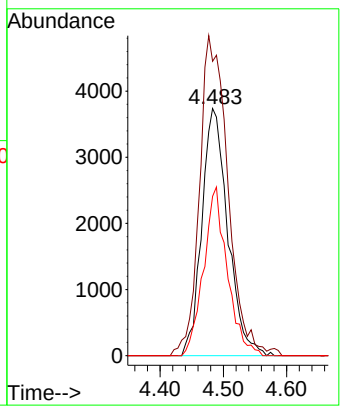




#27
cis-1,2-Dichloroethene
Concen: 5.141 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 96 Resp: 1066

Ion	Ratio	Lower	Upper
96	100		
61	140.8	0.0	294.0
98	62.4	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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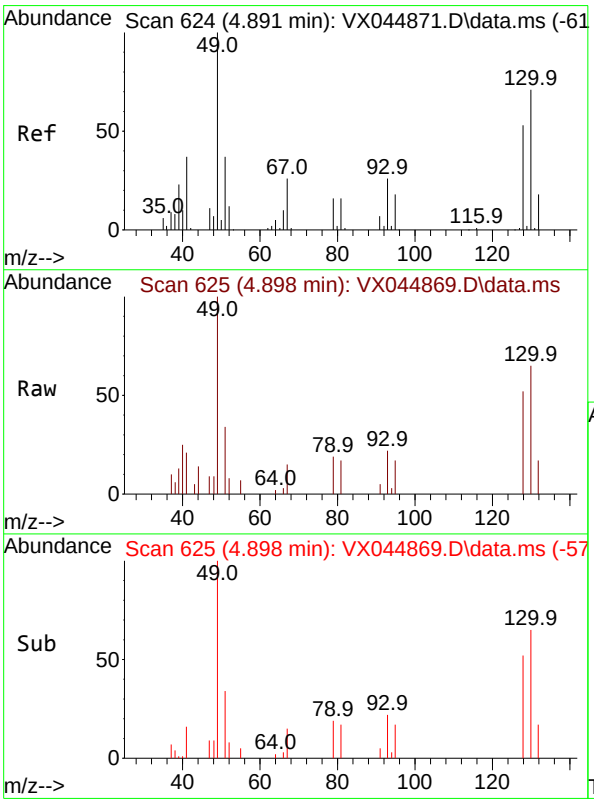
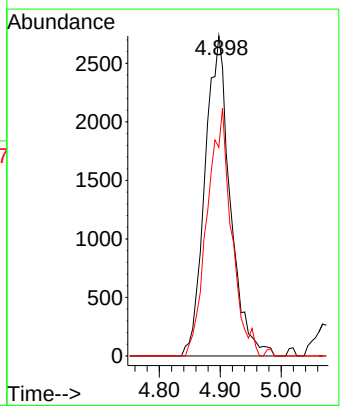
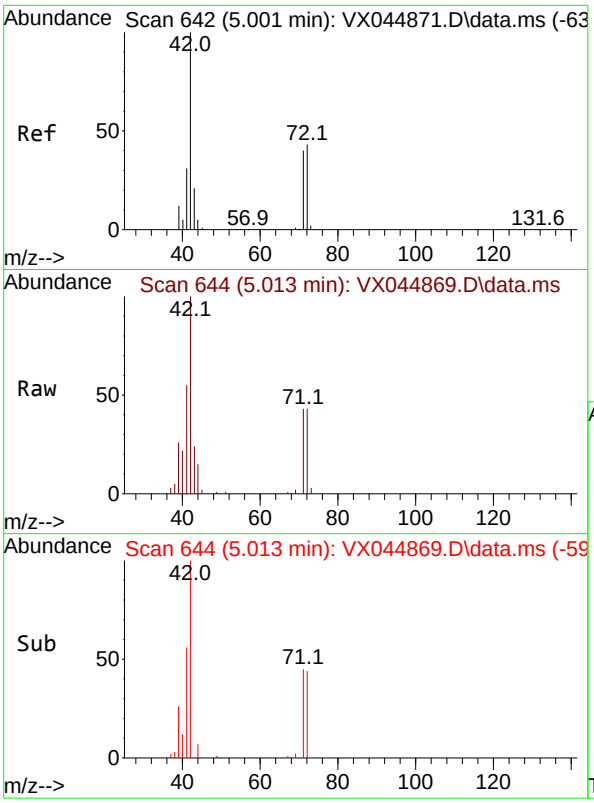


#28
Bromochloromethane
Concen: 4.886 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 49 Resp: 7881

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	74.4	56.7	85.1





#29
Tetrahydrofuran
Concen: 24.429 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 42 Resp: 2109

Ion	Ratio	Lower	Upper
42	100		
72	45.3	35.0	52.4
71	41.6	32.6	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/11/2025
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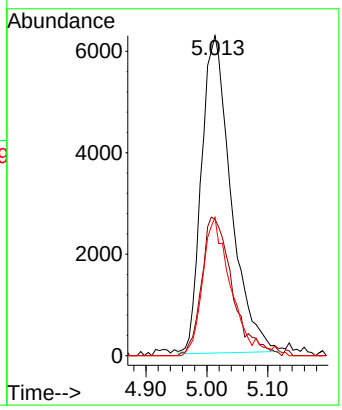
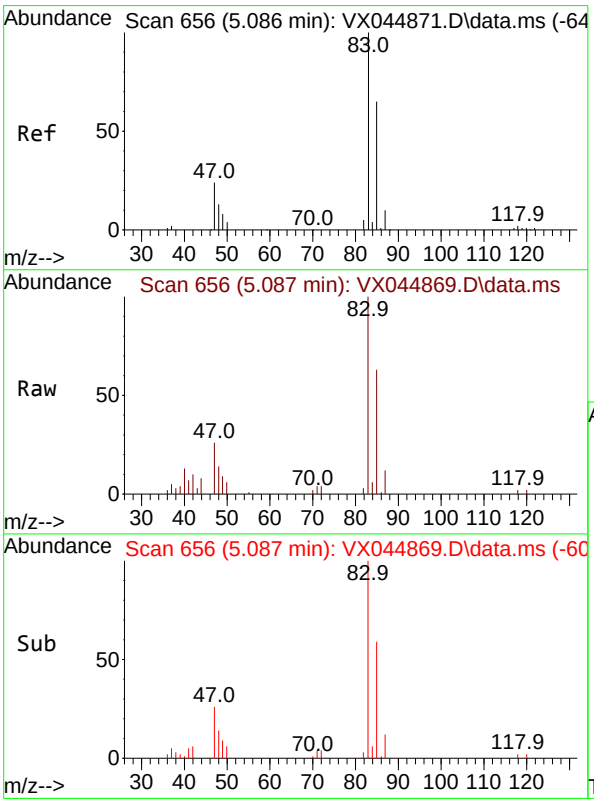
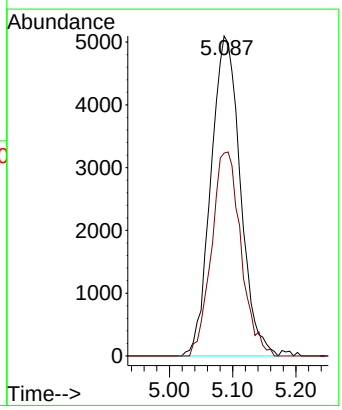


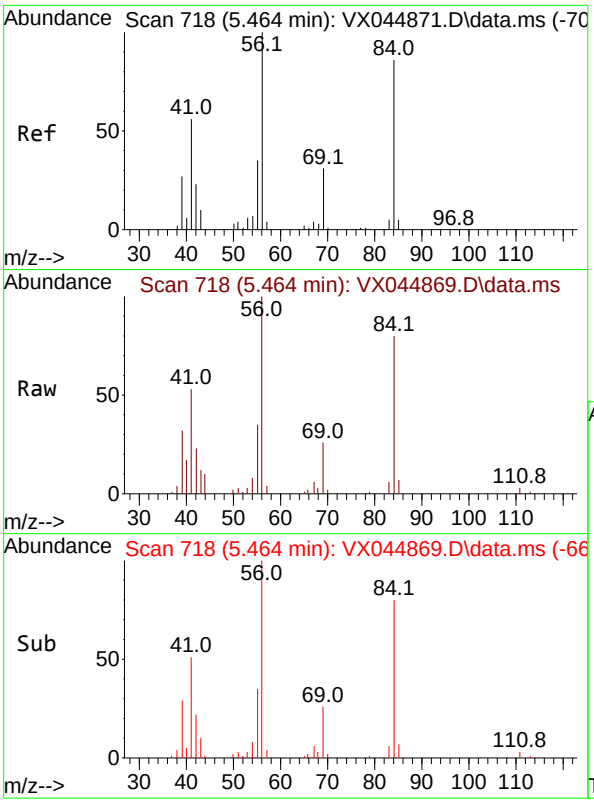


#30
Chloroform
Concen: 5.054 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 16449

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.1	78.1

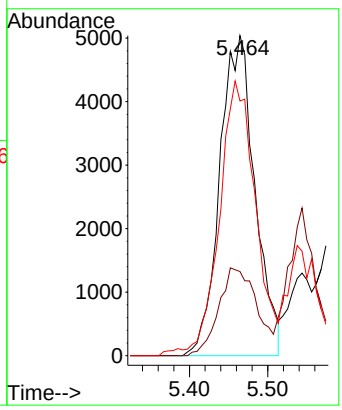




#31
Cyclohexane
Concen: 5.076 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 56 Resp: 1570

Ion	Ratio	Lower	Upper
56	100		
69	26.3	24.4	36.6
84	77.4	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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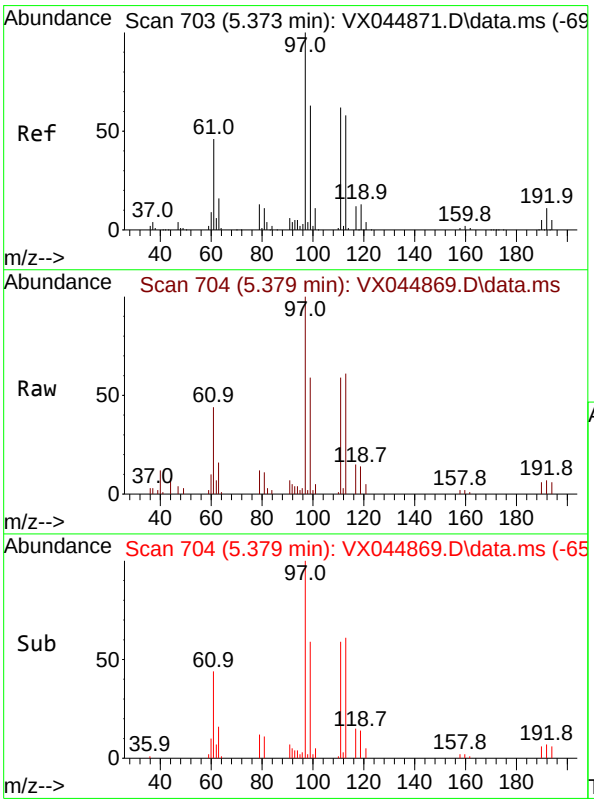
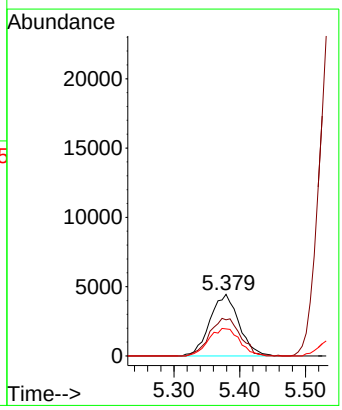
Supervised By :Mahesh Dadoda 02/11/2025

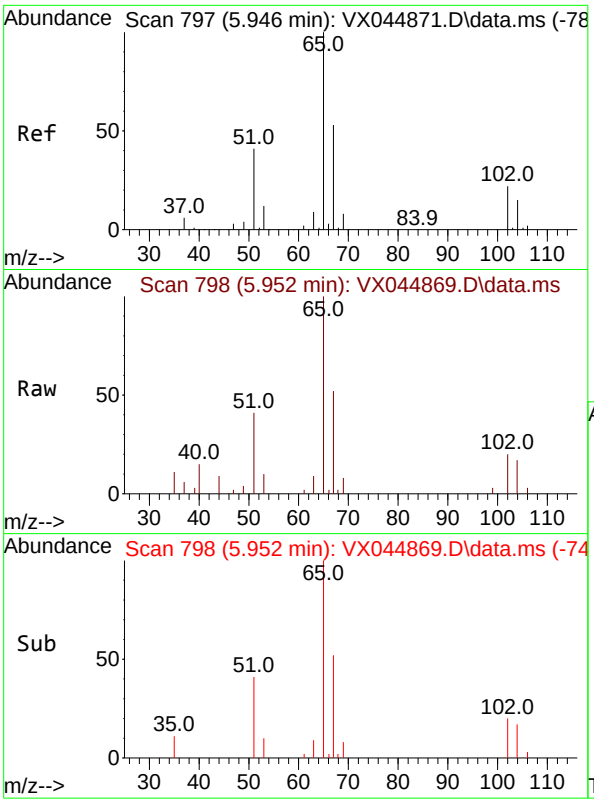


#32
1,1,1-Trichloroethane
Concen: 4.947 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 97 Resp: 13658

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	47.3	36.6	55.0

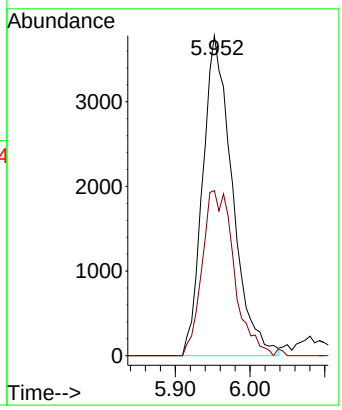




#33
1,2-Dichloroethane-d4
Concen: 5.219 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 65 Resp: 1039

Ion	Ratio	Lower	Upper
65	100		
67	55.6	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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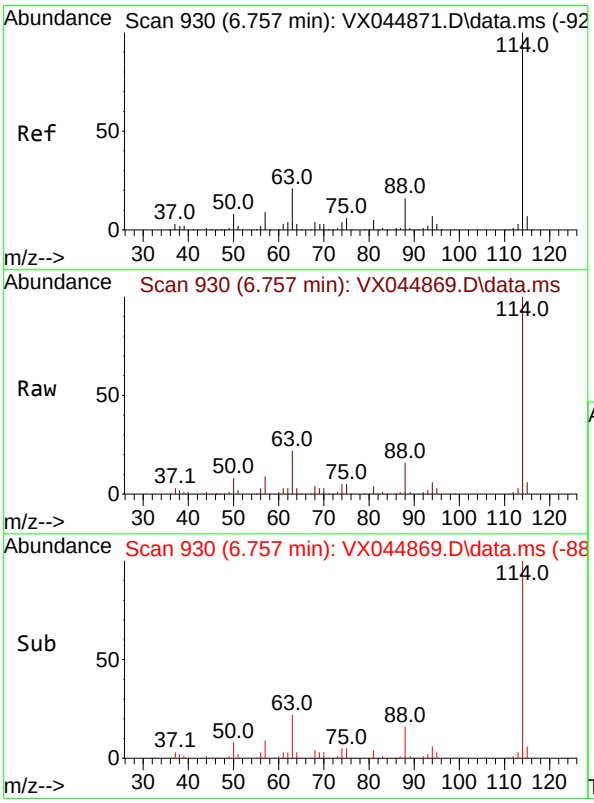
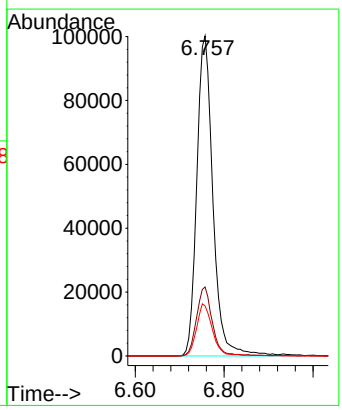
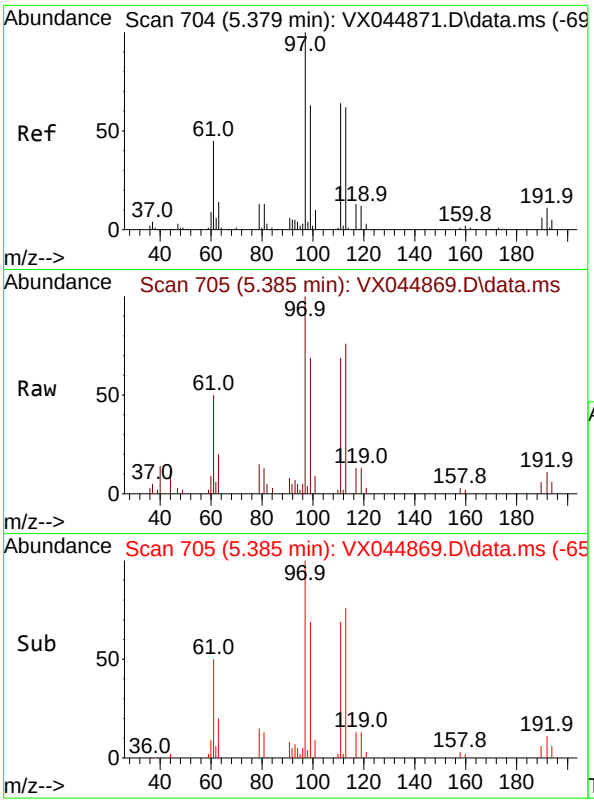


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:114 Resp: 253314

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.4
88	15.6	0.0	31.4

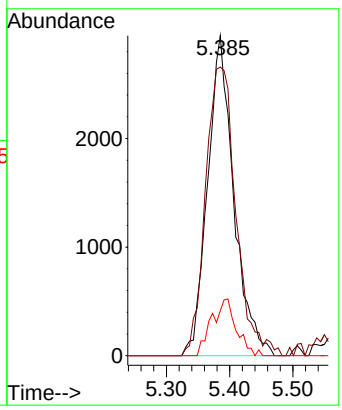




#35
Dibromofluoromethane
Concen: 5.150 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:113 Resp: 848

Ion	Ratio	Lower	Upper
113	100		
111	104.6	83.5	125.3
192	16.7	14.4	21.6



Instrument :
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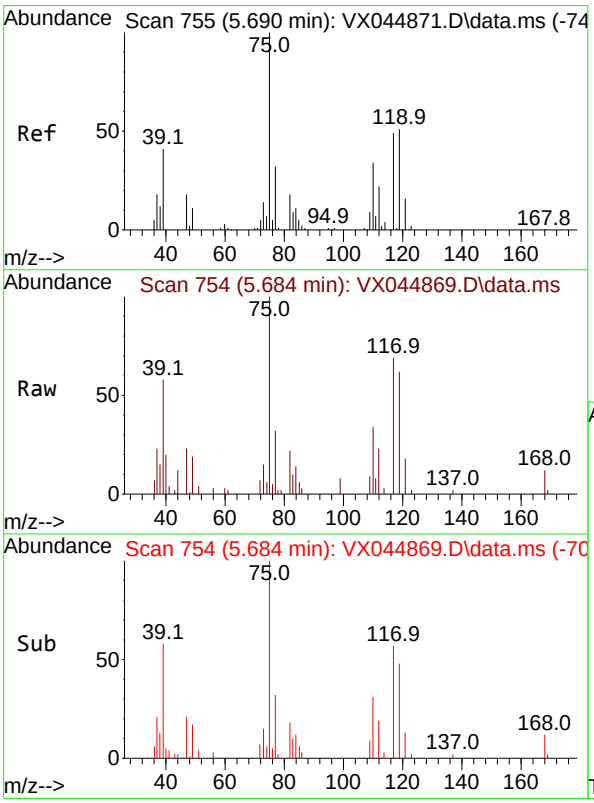
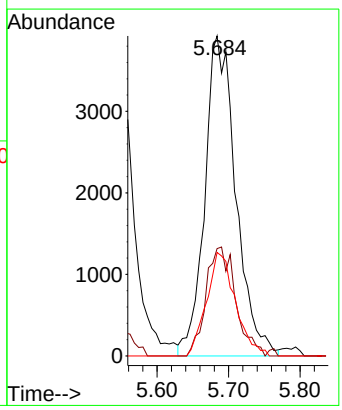
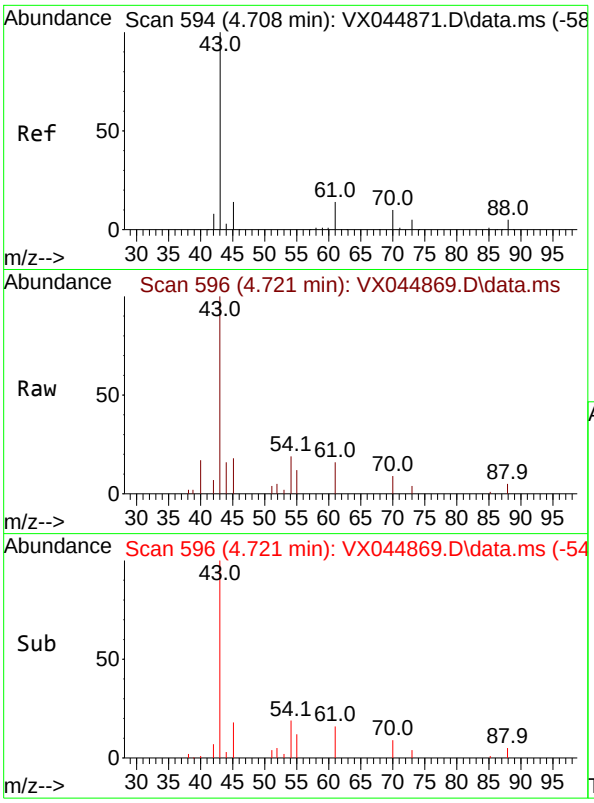


#36
1,1-Dichloropropene
Concen: 4.981 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 11835

Ion	Ratio	Lower	Upper
75	100		
110	32.4	17.2	51.6
77	30.0	24.6	37.0

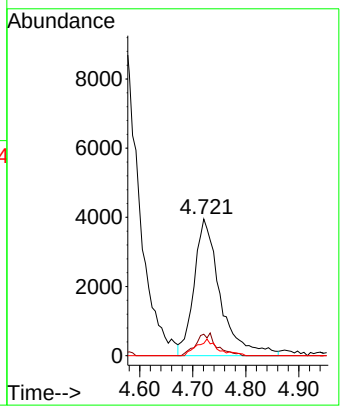




#37
Ethyl Acetate
Concen: 5.122 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 1353

Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.0	16.4
70	9.8	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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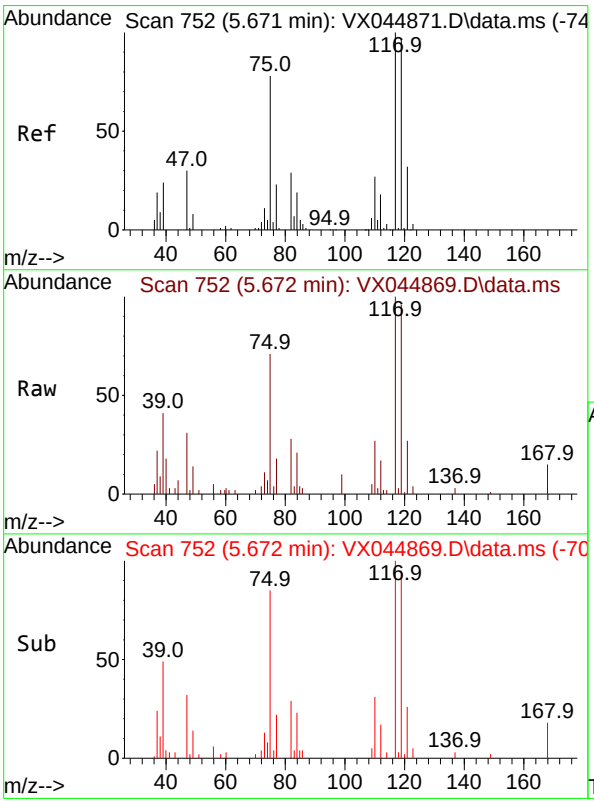
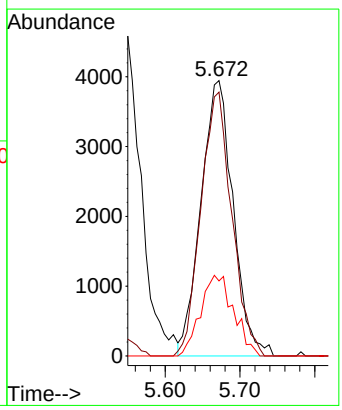
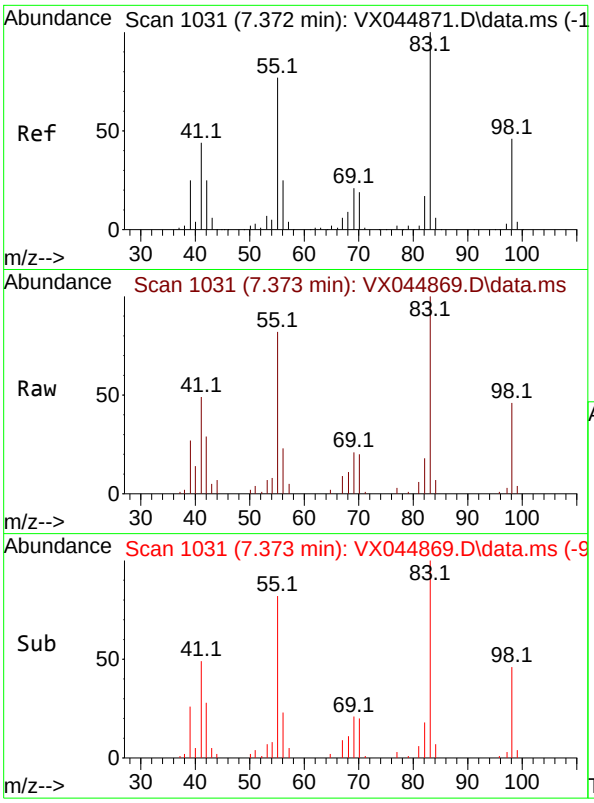


#38
Carbon Tetrachloride
Concen: 5.066 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 11797

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.5	116.3
121	27.2	25.6	38.4

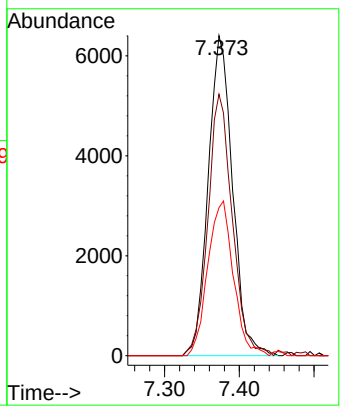




#39
Methylcyclohexane
Concen: 4.711 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 1447

Ion	Ratio	Lower	Upper
83	100		
55	81.7	61.3	91.9
98	46.3	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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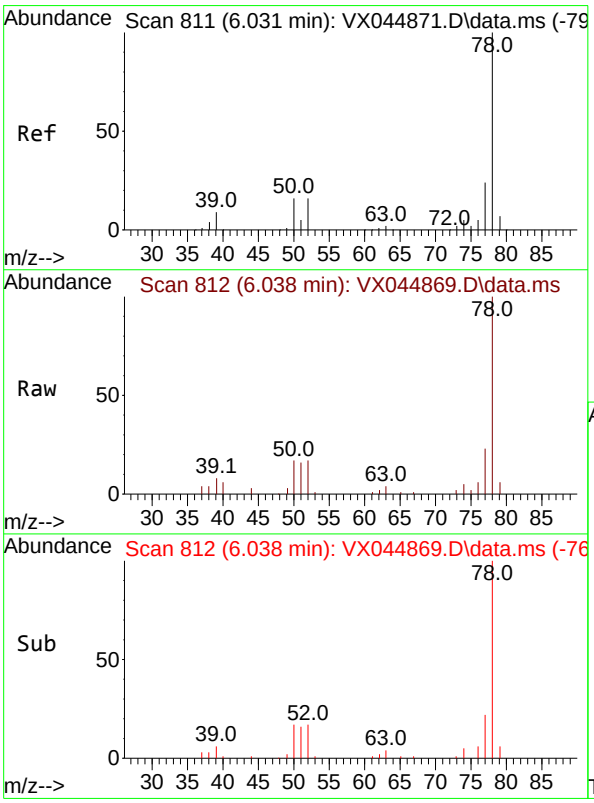
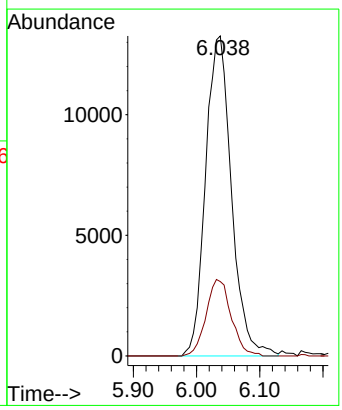
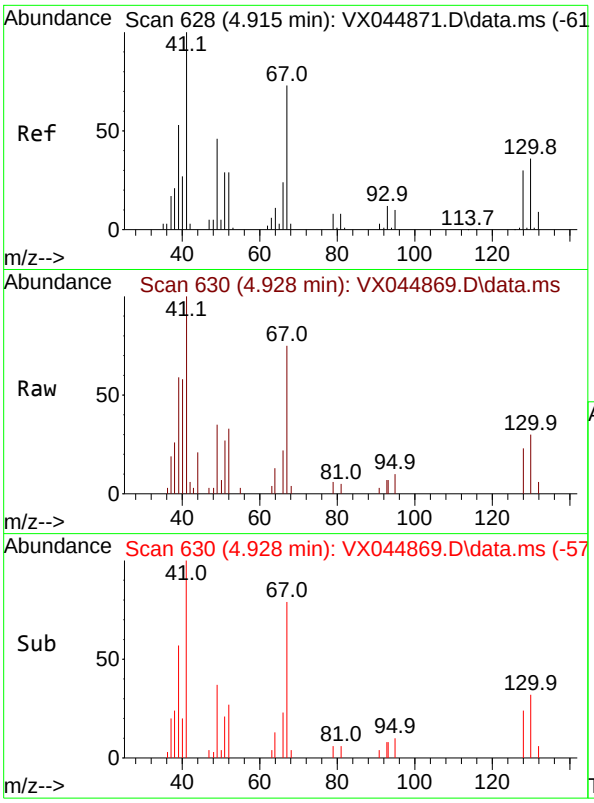


#40
Benzene
Concen: 5.079 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 78 Resp: 37687

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6

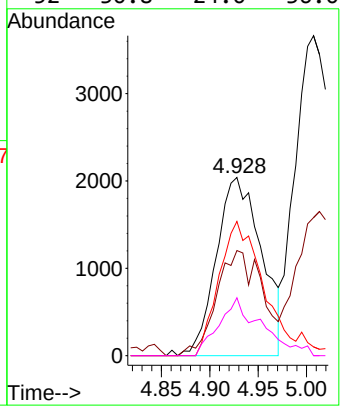




#41
Methacrylonitrile
Concen: 4.699 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 664

Ion	Ratio	Lower	Upper
41	100		
39	59.4	43.1	64.7
67	72.7	57.0	85.6
52	30.8	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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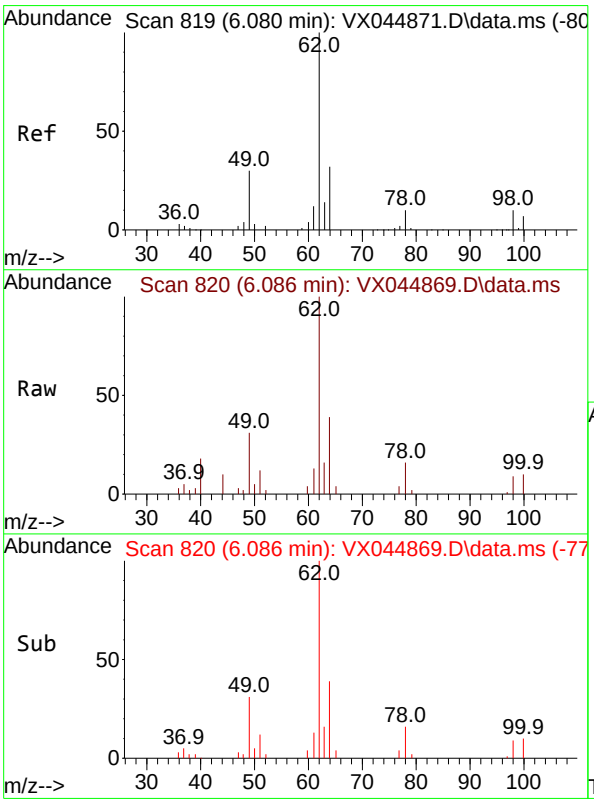
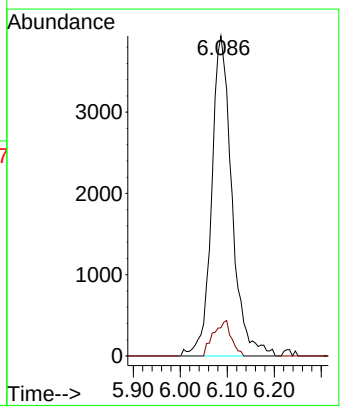
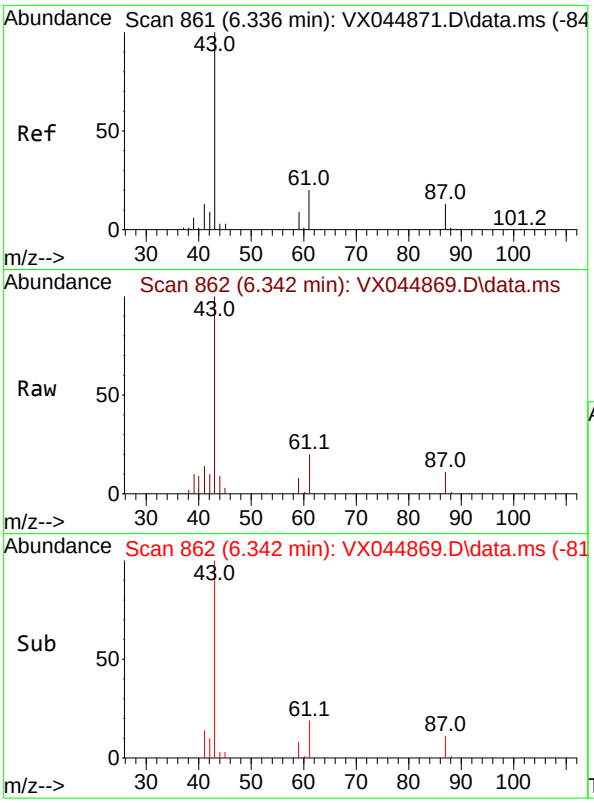


#42
1,2-Dichloroethane
Concen: 4.985 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11789

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4

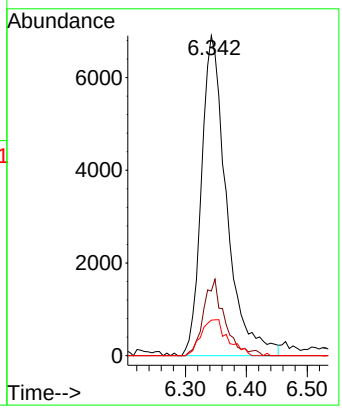




#43
Isopropyl Acetate
Concen: 4.640 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 1980

Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.8	23.8
87	11.9	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
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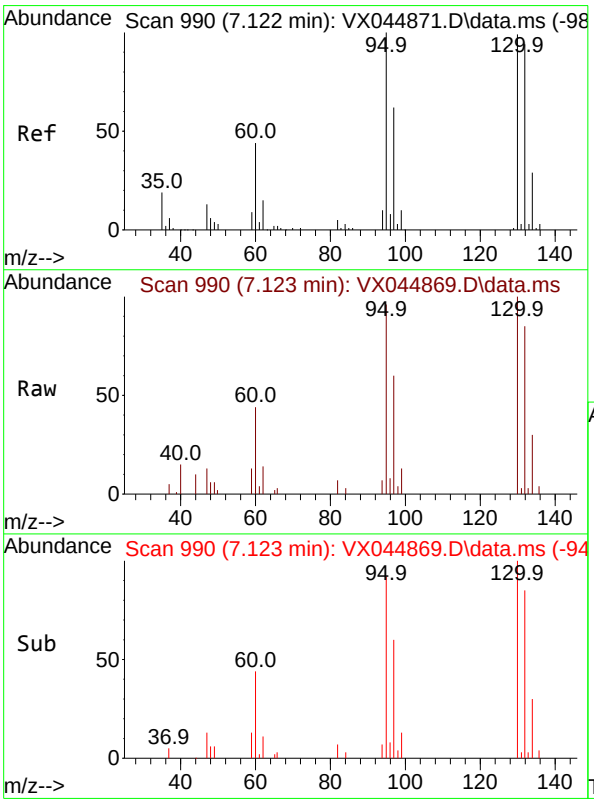
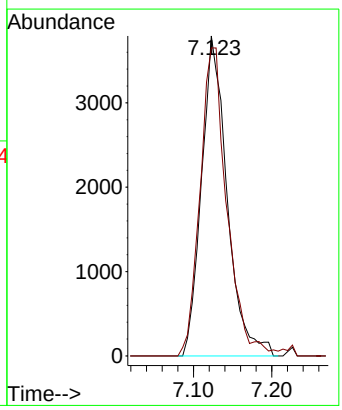
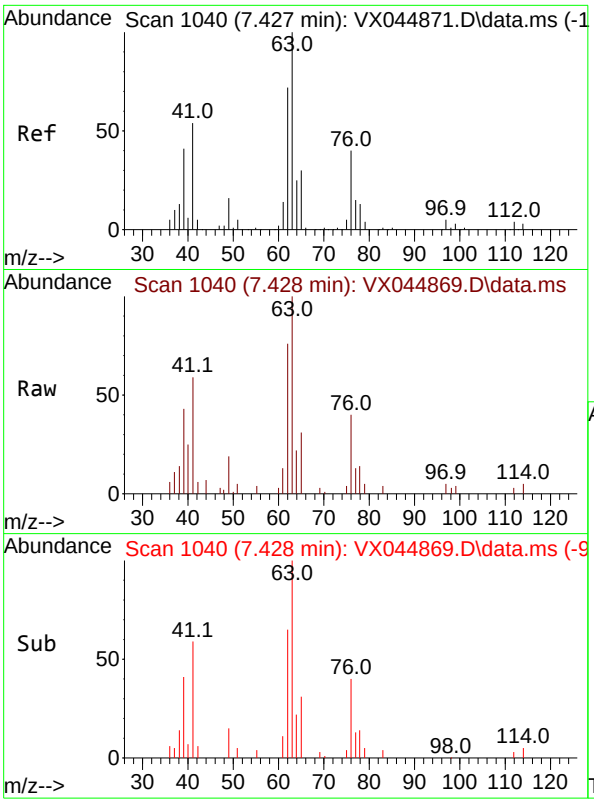


#44
Trichloroethene
Concen: 5.079 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:130 Resp: 8614

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	202.4

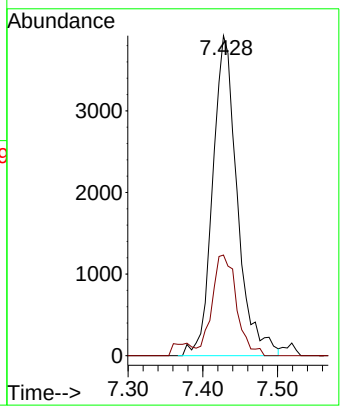




#45
1,2-Dichloropropane
Concen: 4.863 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 897

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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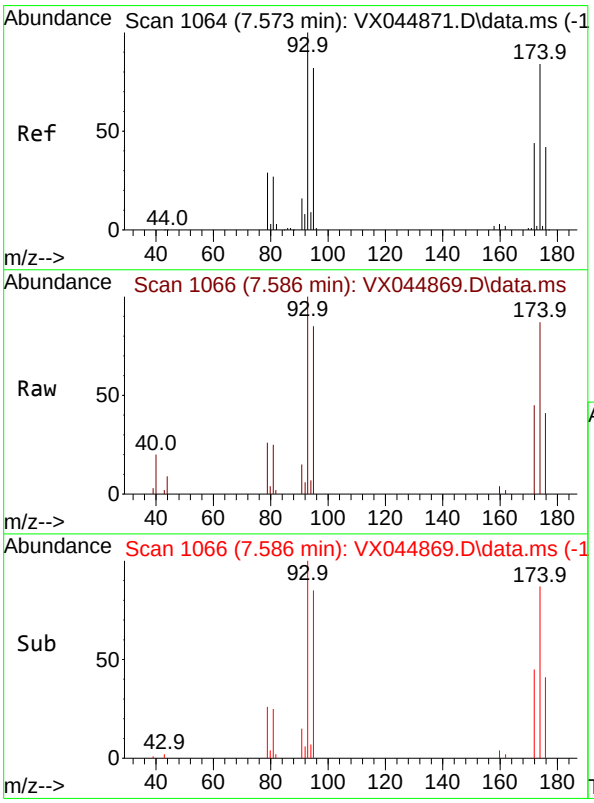
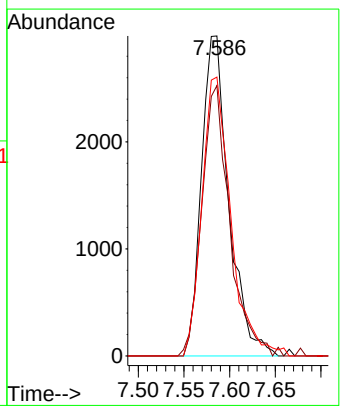
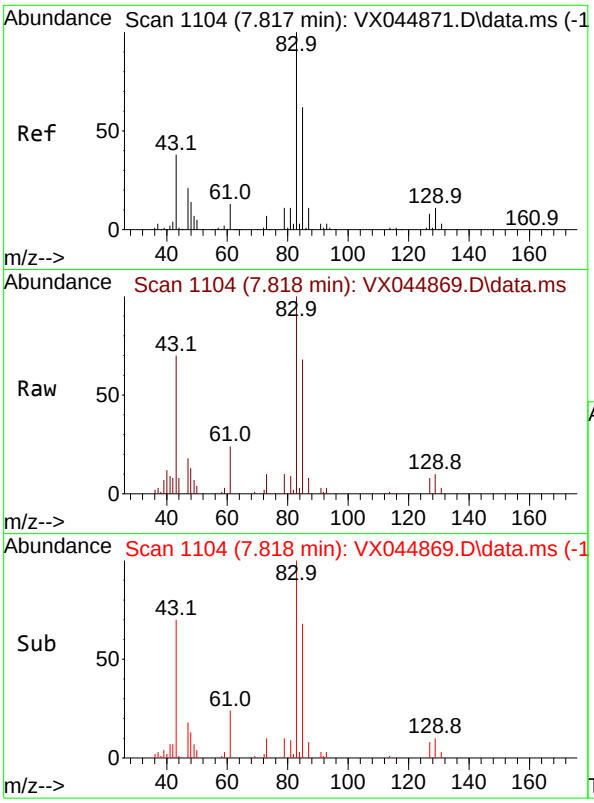


#46
Dibromomethane
Concen: 4.851 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 93 Resp: 6210

Ion	Ratio	Lower	Upper
93	100		
95	86.4	66.2	99.4
174	92.2	69.9	104.9

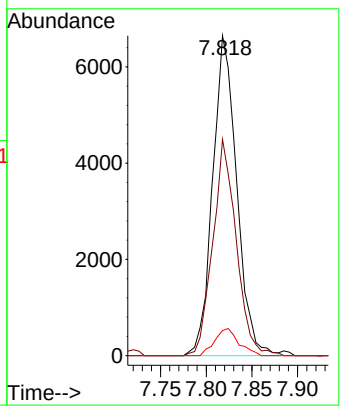




#47
Bromodichloromethane
Concen: 4.911 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 1217

Ion	Ratio	Lower	Upper
83	100		
85	67.6	50.0	75.0
127	7.8	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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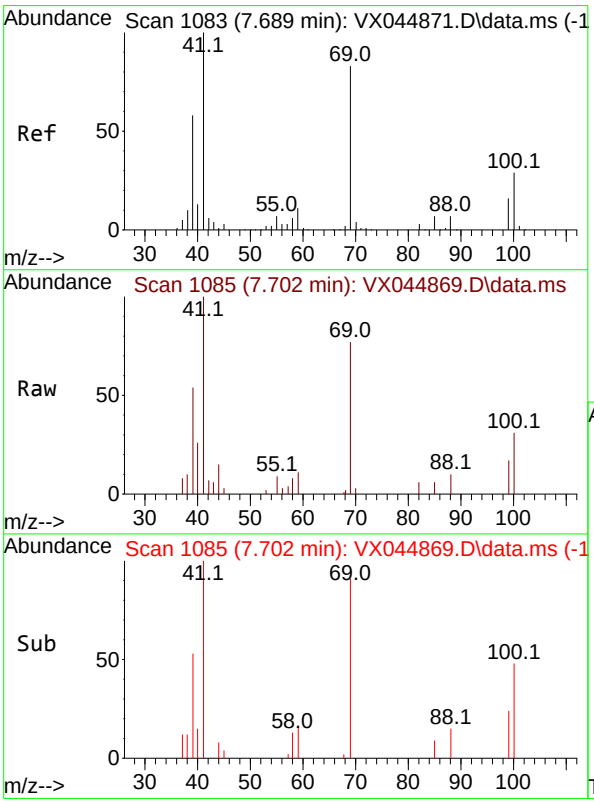
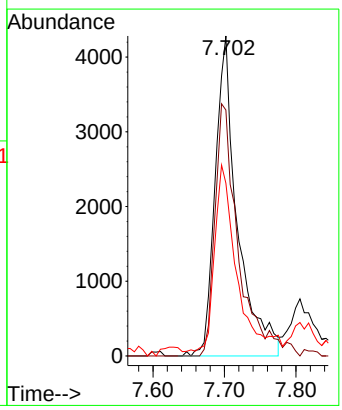
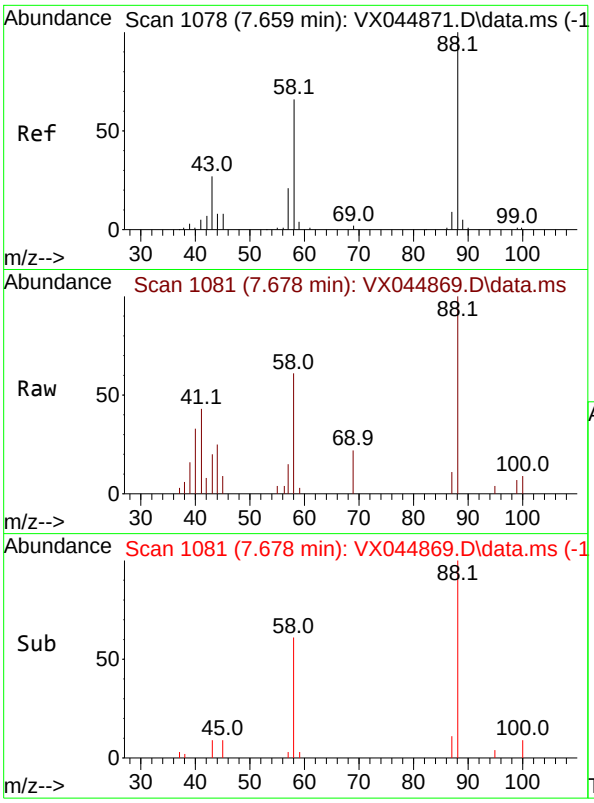


#48
Methyl methacrylate
Concen: 4.620 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 9298

Ion	Ratio	Lower	Upper
41	100		
69	83.0	65.8	98.8
39	54.6	46.4	69.6

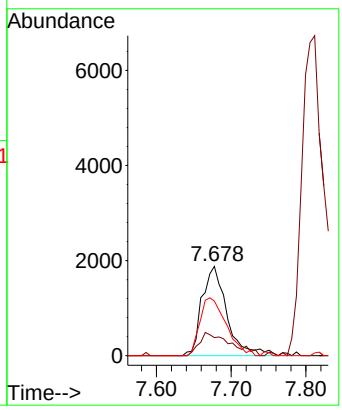




#49
1,4-Dioxane
Concen: 101.099 ug/l
RT: 7.678 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 88 Resp: 436

Ion	Ratio	Lower	Upper
88	100		
43	32.3	26.6	39.8
58	67.9	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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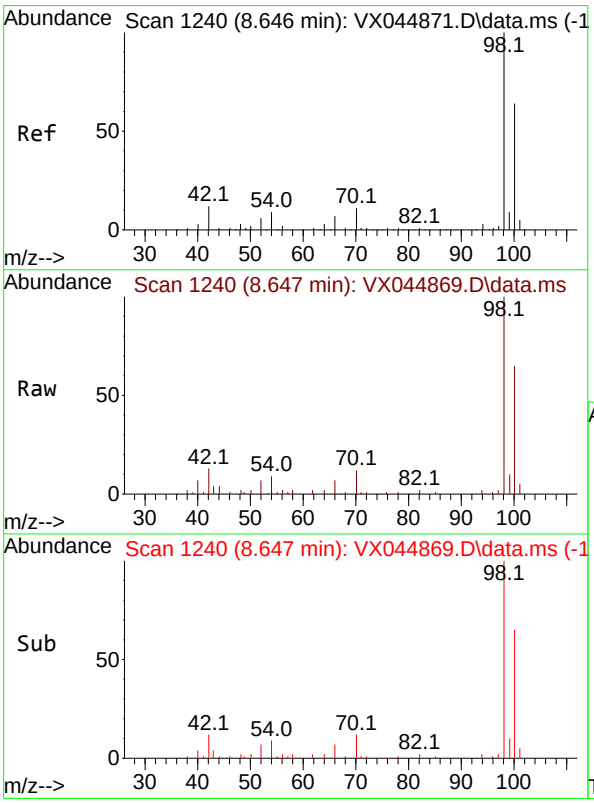
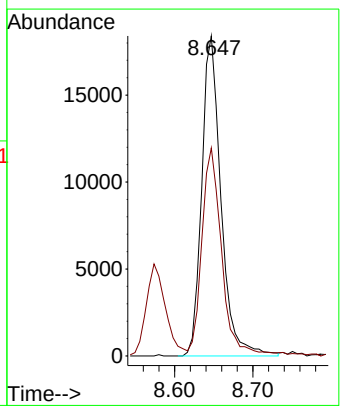
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

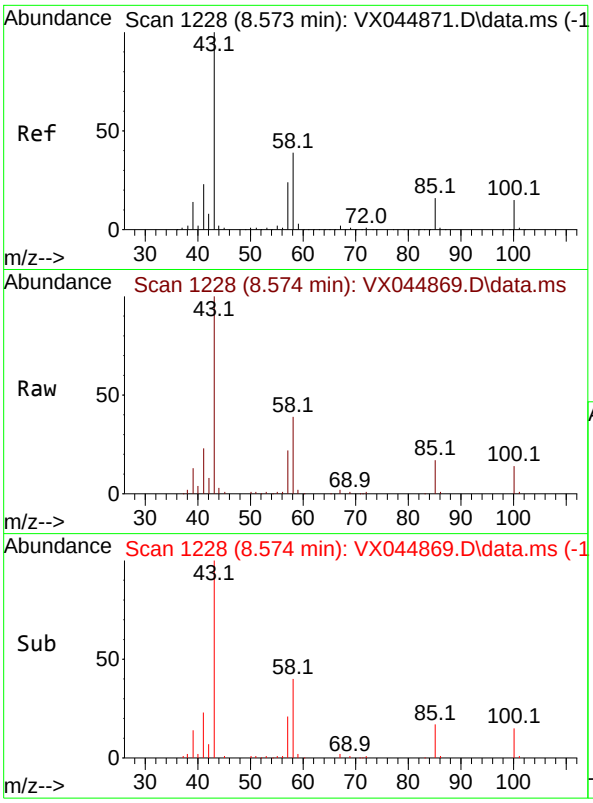


#50
Toluene-d8
Concen: 5.039 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 98 Resp: 31381

Ion	Ratio	Lower	Upper
98	100		
100	67.8	52.7	79.1

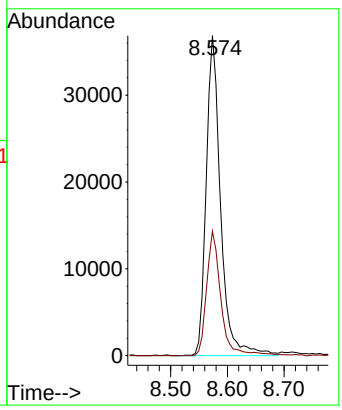




#51
4-Methyl-2-Pentanone
Concen: 25.076 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 6506

Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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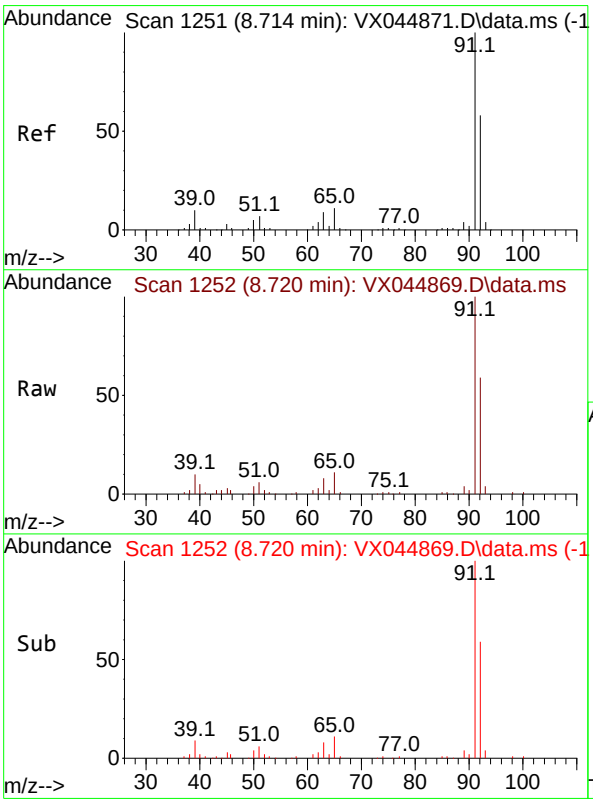
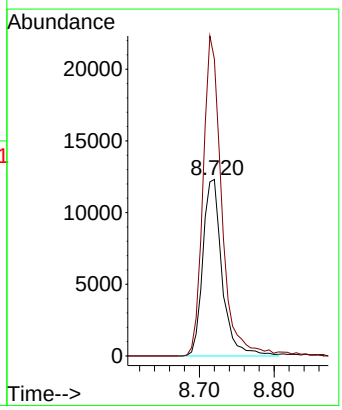
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

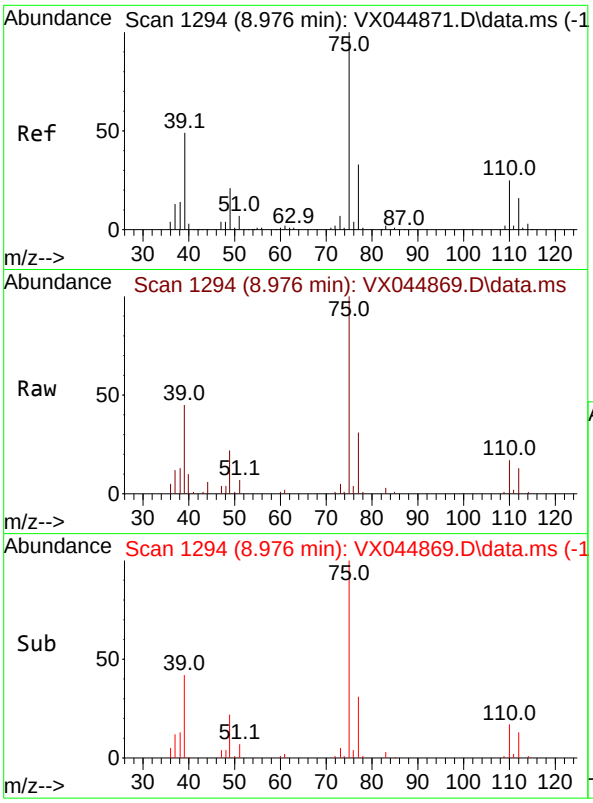


#52
Toluene
Concen: 4.999 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 92 Resp: 22090

Ion	Ratio	Lower	Upper
92	100		
91	177.1	137.4	206.2

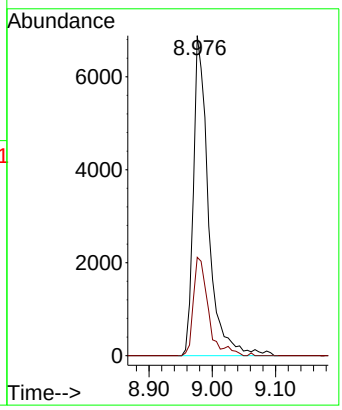




#53
t-1,3-Dichloropropene
Concen: 4.550 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 1141

Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 02/11/2025
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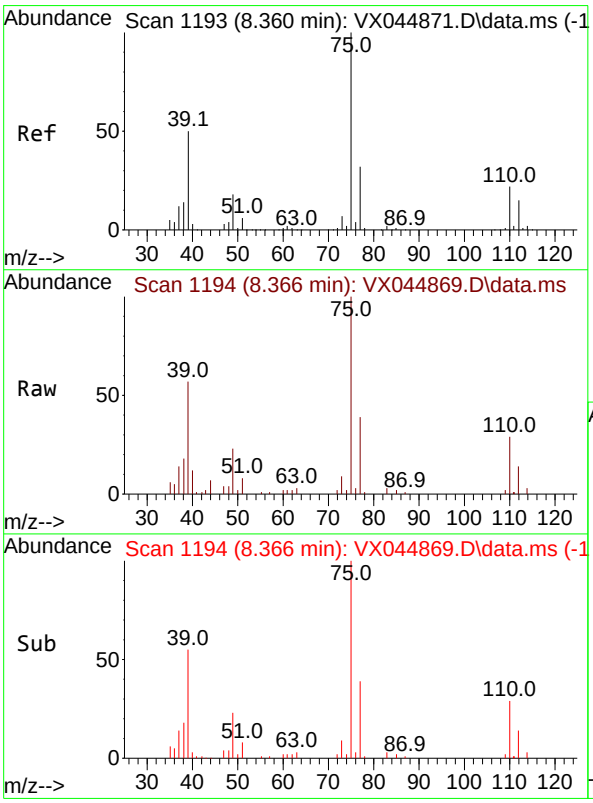
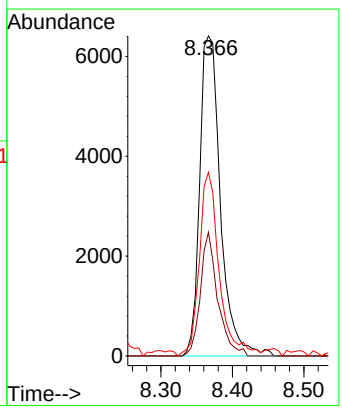
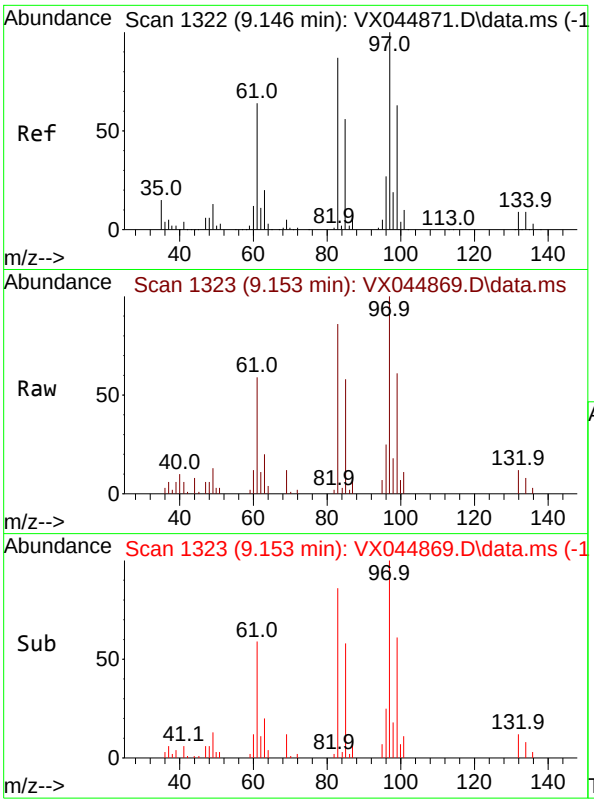


#54
cis-1,3-Dichloropropene
Concen: 4.628 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 12943

Ion	Ratio	Lower	Upper
75	100		
77	38.7	25.3	37.9#
39	57.4	40.0	60.0

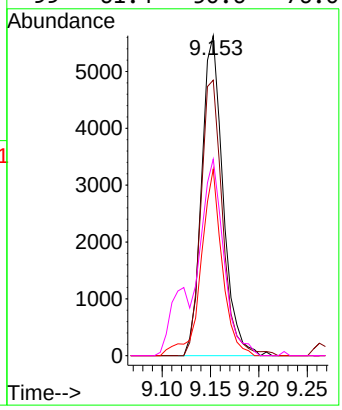




#55
1,1,2-Trichloroethane
Concen: 5.099 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 97 Resp: 866

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.8	104.6
85	58.3	44.8	67.2
99	61.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 02/11/2025
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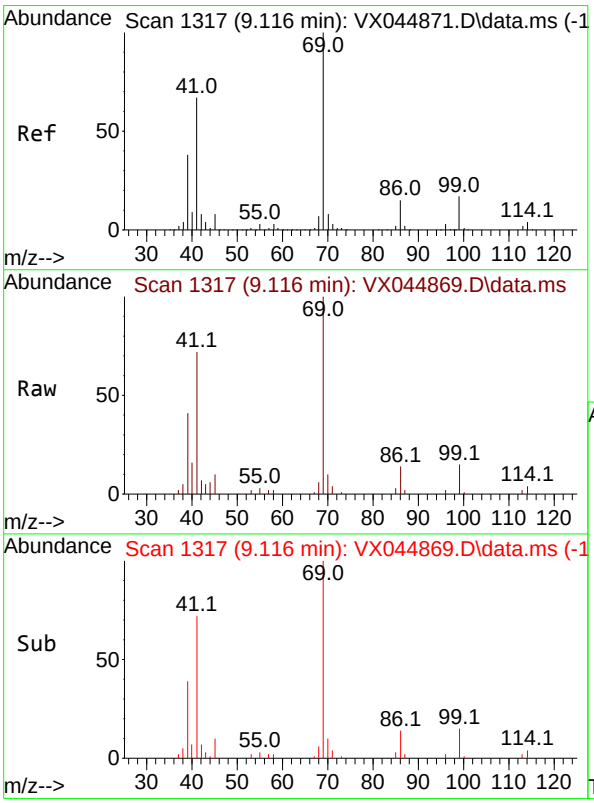
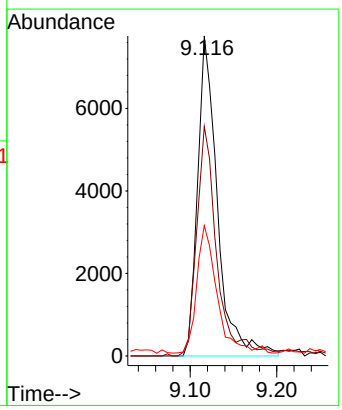
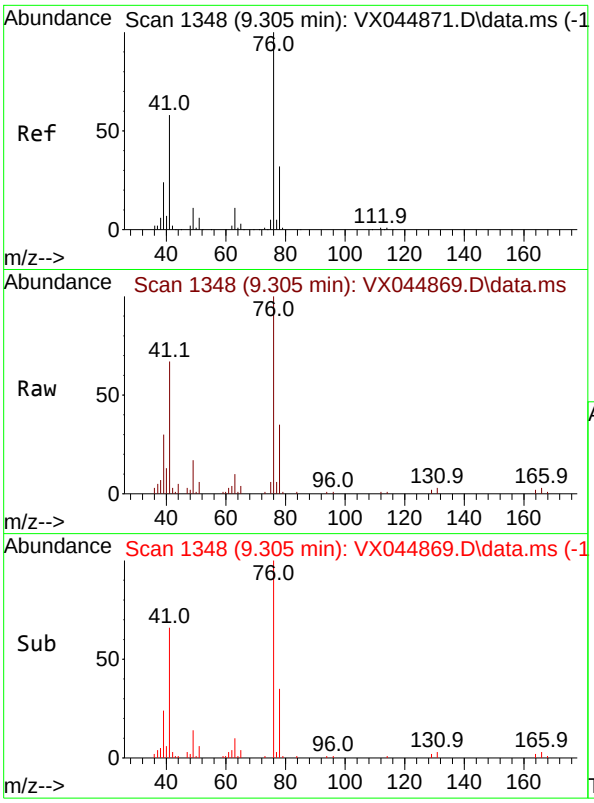


#56
Ethyl methacrylate
Concen: 4.502 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 69 Resp: 12351

Ion	Ratio	Lower	Upper
69	100		
41	73.0	55.2	82.8
39	39.5	30.8	46.2

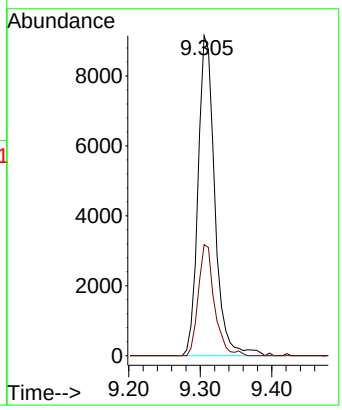




#57
1,3-Dichloropropane
Concen: 4.993 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 76 Resp: 1483

Ion	Ratio	Lower	Upper
76	100		
78	33.4	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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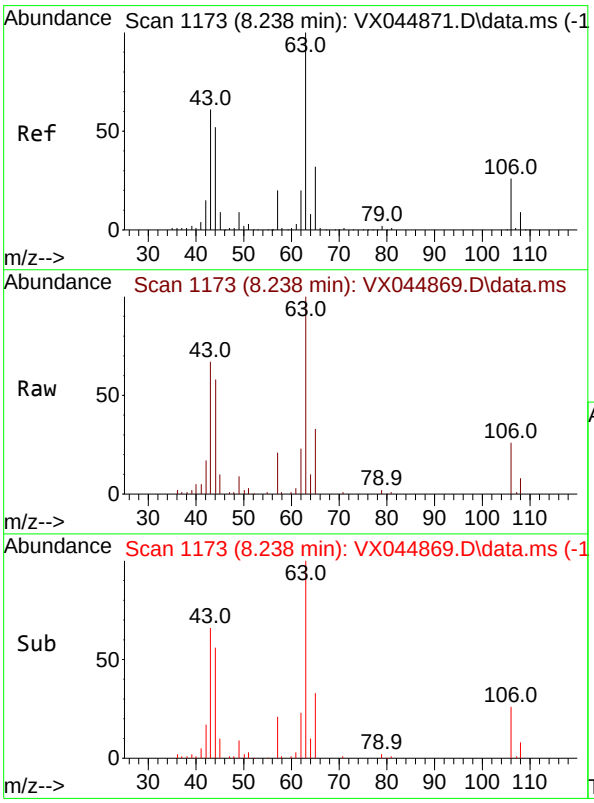
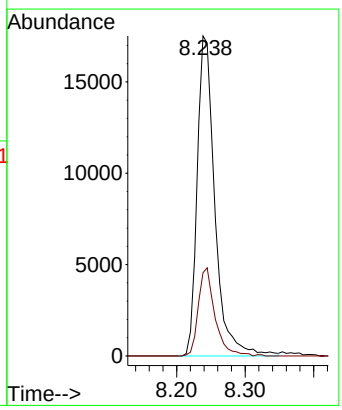
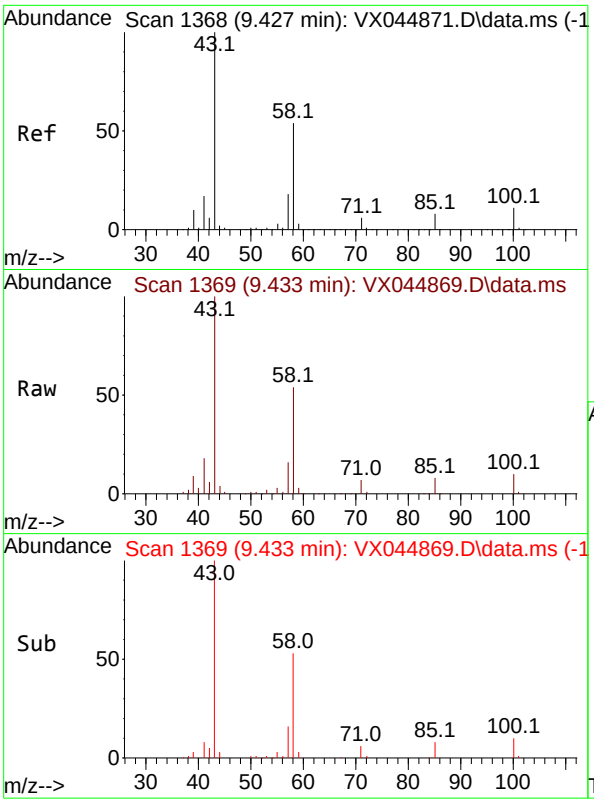


#58
2-Chloroethyl Vinyl ether
Concen: 23.382 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 31498

Ion	Ratio	Lower	Upper
63	100		
106	25.8	21.3	31.9

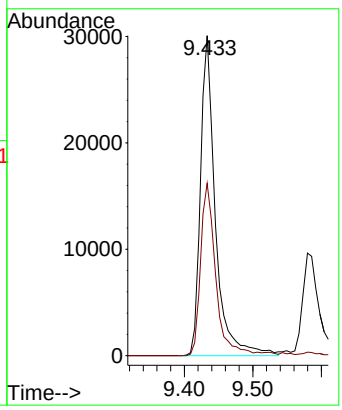




#59
2-Hexanone
Concen: 24.359 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 4553

Ion	Ratio	Lower	Upper
43	100		
58	55.5	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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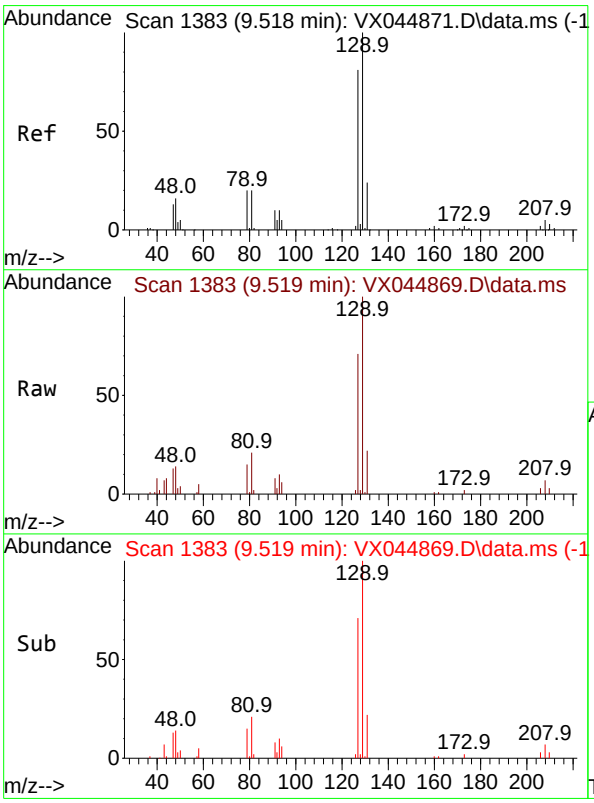
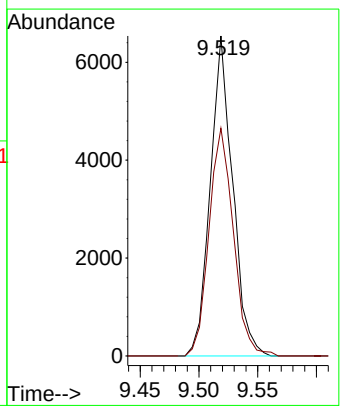
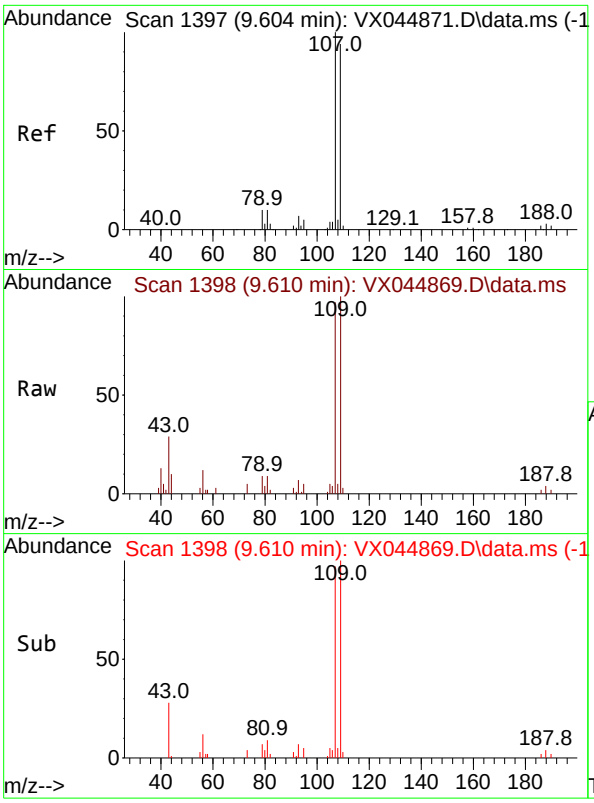


#60
Dibromochloromethane
Concen: 4.771 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:129 Resp: 8668

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.3





#61
1,2-Dibromoethane
Concen: 4.852 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:107 Resp: 835

Ion	Ratio	Lower	Upper
107	100		
109	98.8	75.9	113.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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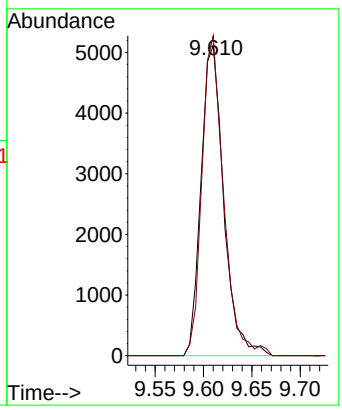
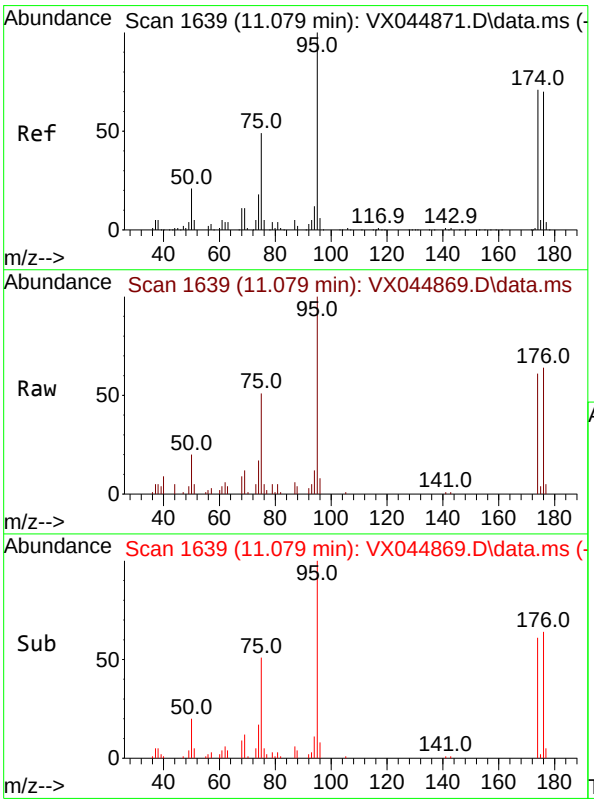
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

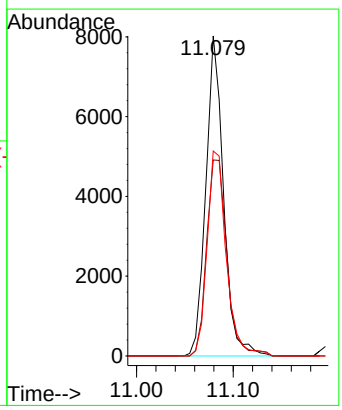


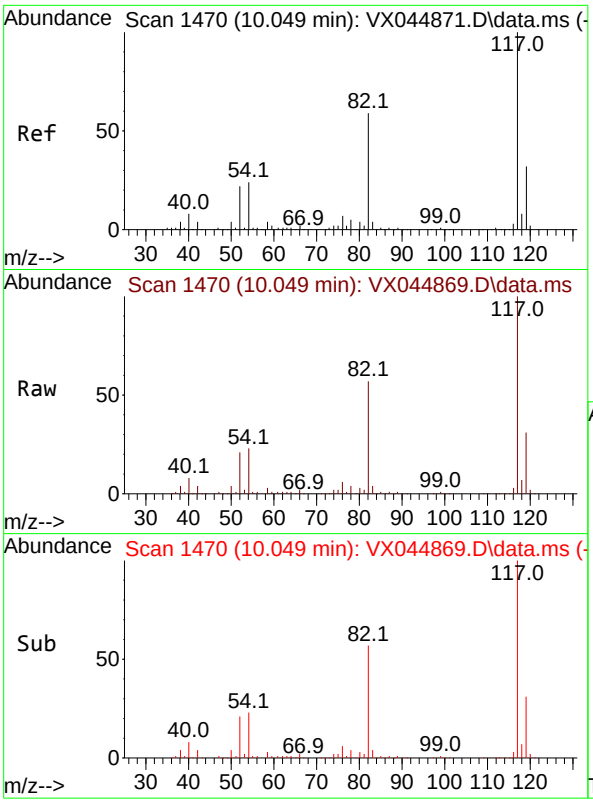


#62
4-Bromofluorobenzene
Concen: 4.872 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 95 Resp: 10229

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	142.6
176	69.3	0.0	141.6

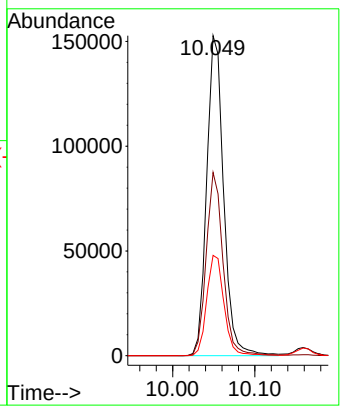




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 21862

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.5	71.3
119	31.4	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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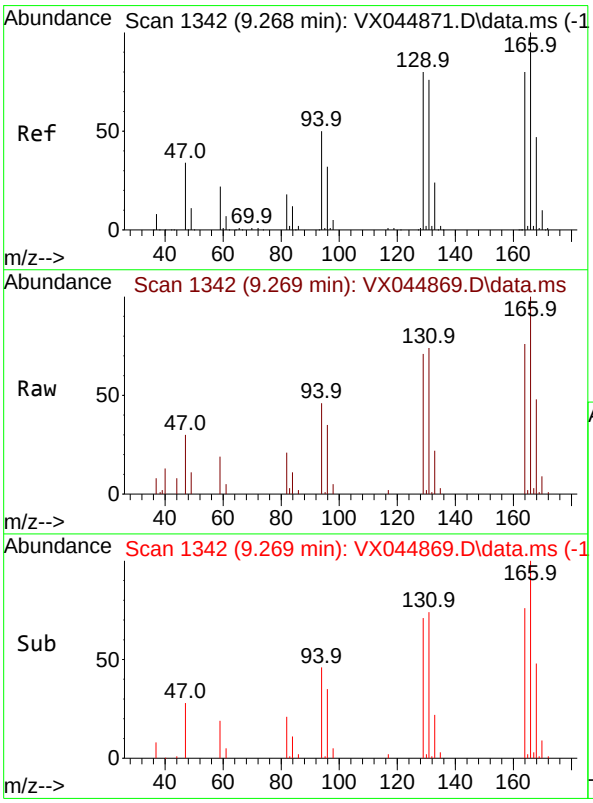
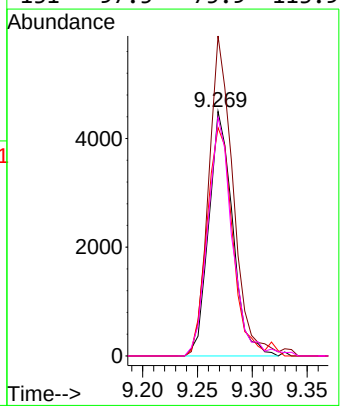
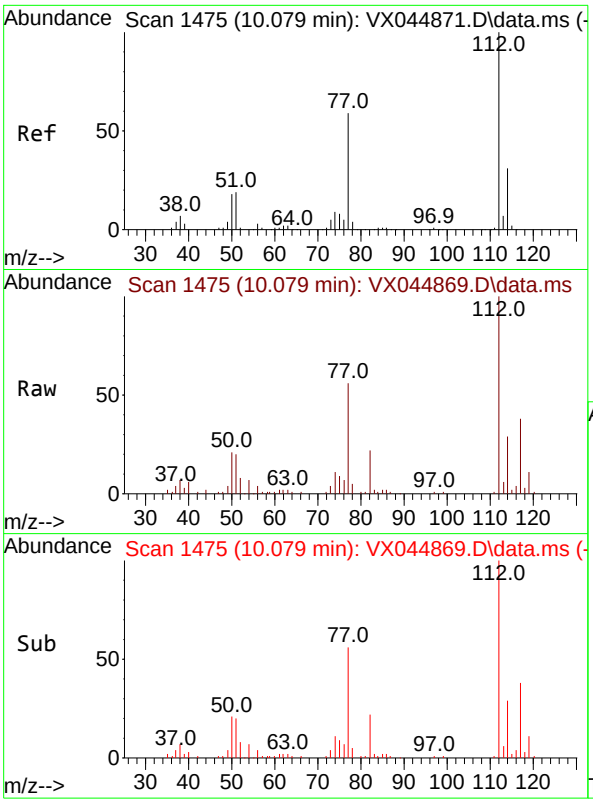


#64
Tetrachloroethene
Concen: 4.934 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:164 Resp: 6803

Ion	Ratio	Lower	Upper
164	100		
166	130.9	100.4	150.6
129	93.4	79.9	119.9
131	97.5	75.9	113.9

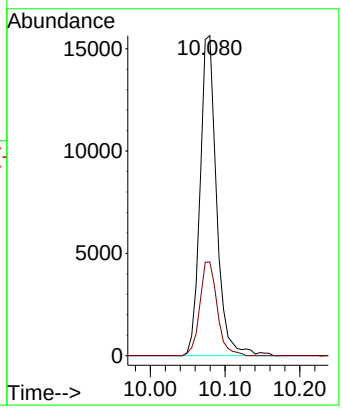




#65
Chlorobenzene
Concen: 5.090 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:112 Resp: 2390

Ion	Ratio	Lower	Upper
112	100		
114	29.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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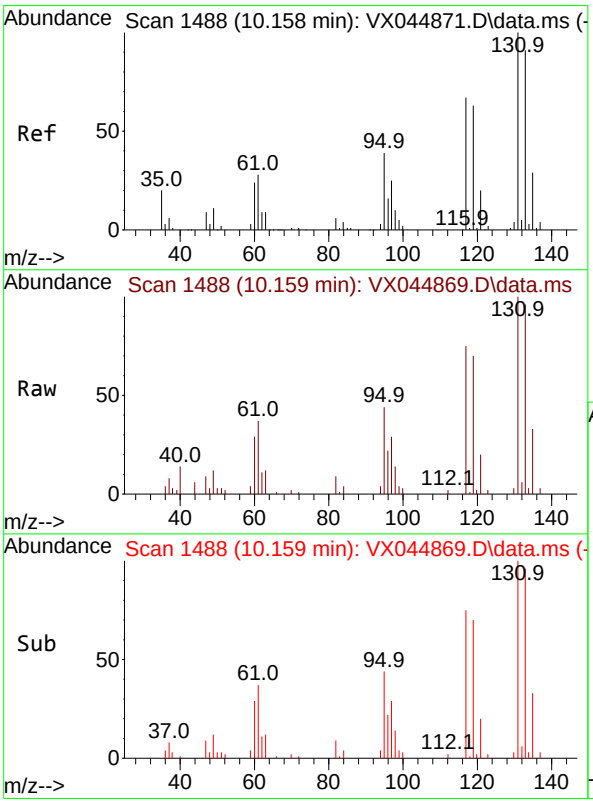
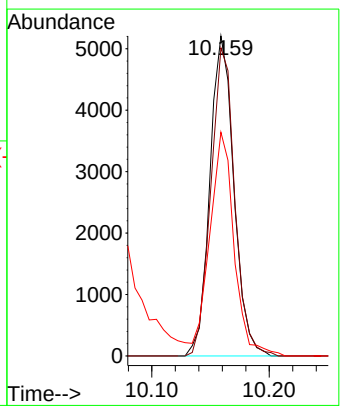
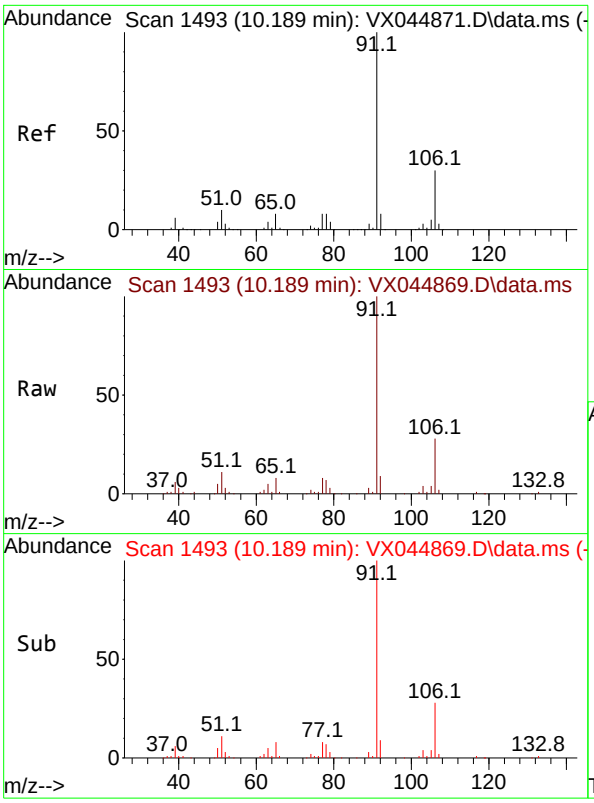


#66
1,1,1,2-Tetrachloroethane
Concen: 4.883 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:131 Resp: 7380

Ion	Ratio	Lower	Upper
131	100		
133	96.2	47.1	141.3
119	70.5	33.6	100.6

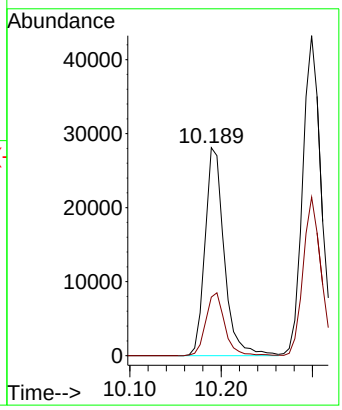




#67
Ethyl Benzene
Concen: 4.941 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 4094

Ion	Ratio	Lower	Upper
91	100		
106	28.1	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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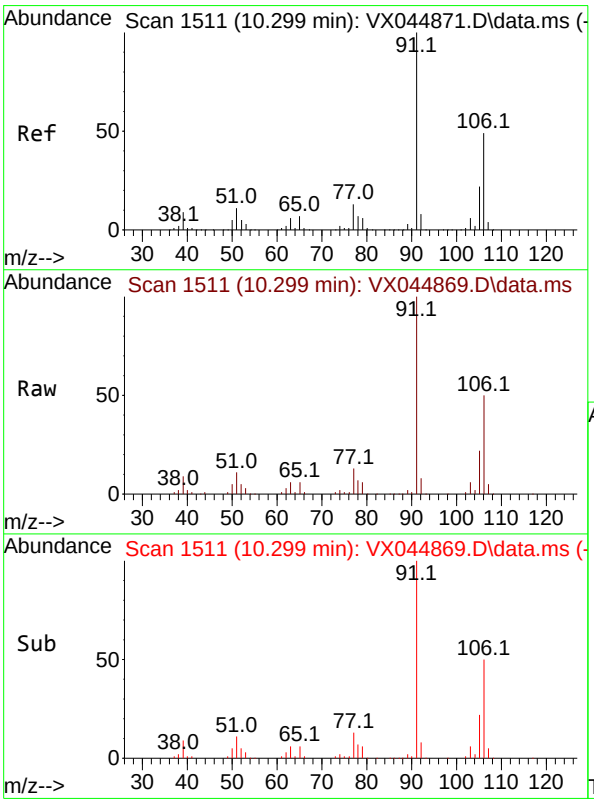
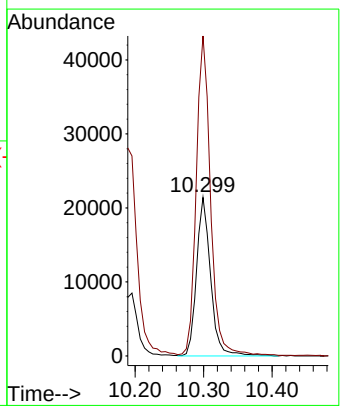
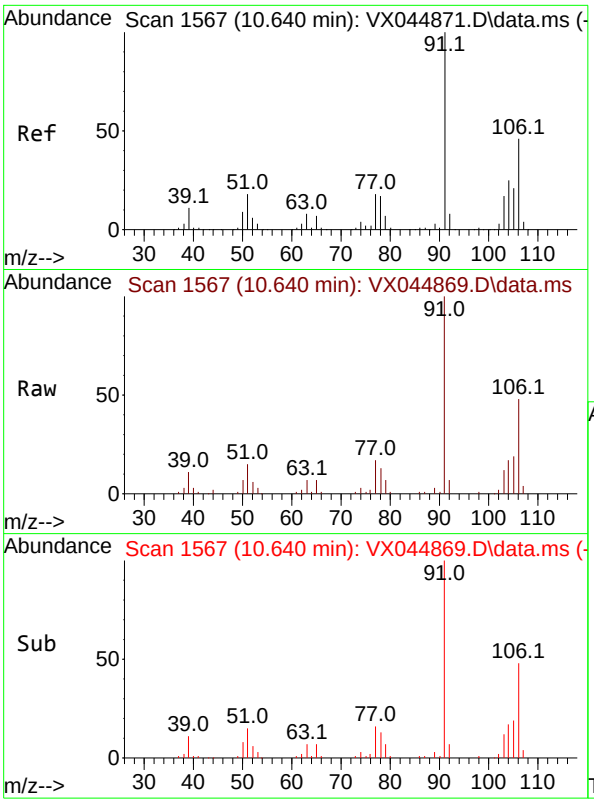


#68
m/p-Xylenes
Concen: 10.019 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:106 Resp: 30627

Ion	Ratio	Lower	Upper
106	100		
91	204.6	164.3	246.5

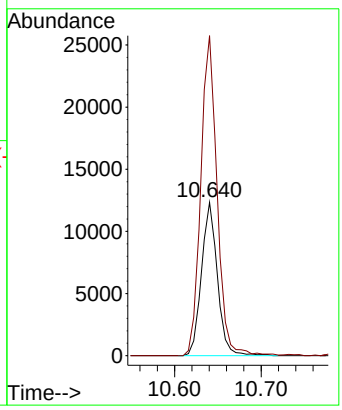




#69
o-Xylene
Concen: 5.139 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:106 Resp: 1576

Ion	Ratio	Lower	Upper
106	100		
91	213.9	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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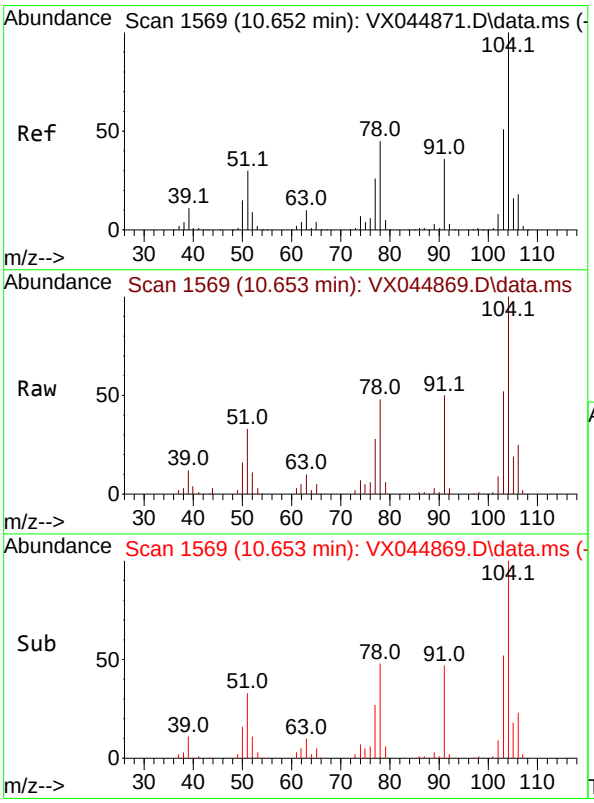
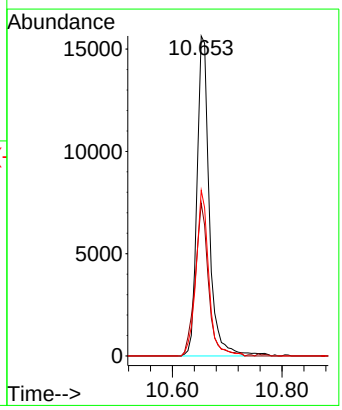
Supervised By :Mahesh Dadoda 02/11/2025

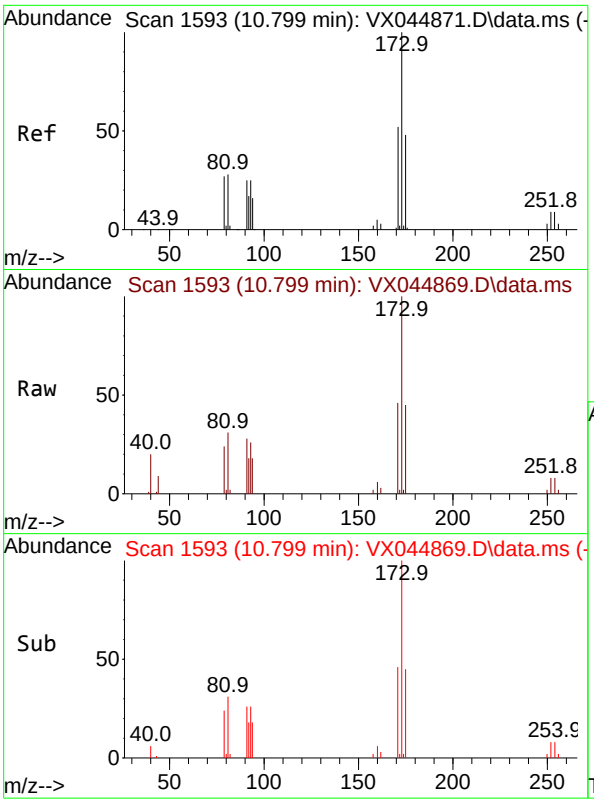


#70
Styrene
Concen: 4.973 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:104 Resp: 24576

Ion	Ratio	Lower	Upper
104	100		
78	51.3	40.5	60.7
103	53.4	43.6	65.4

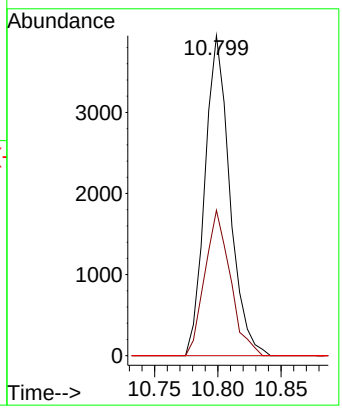




#71
Bromoform
Concen: 4.779 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:173 Resp: 539

Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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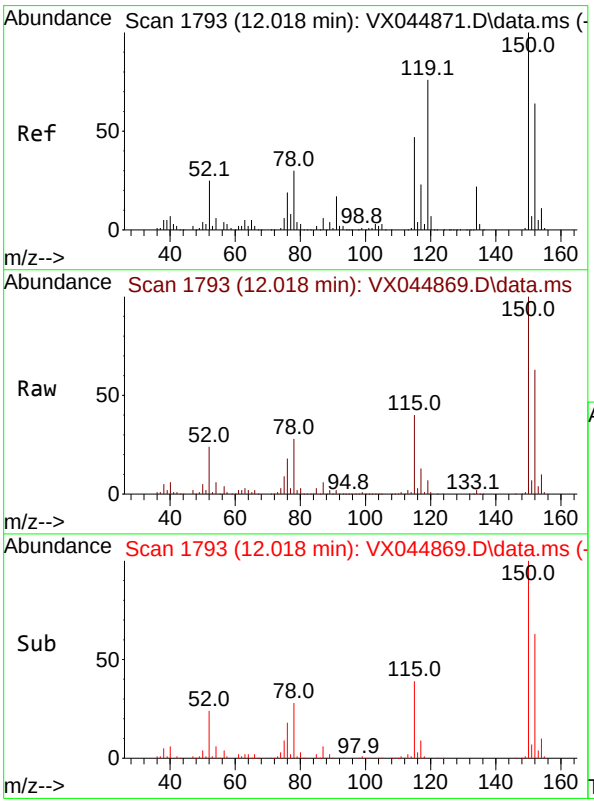
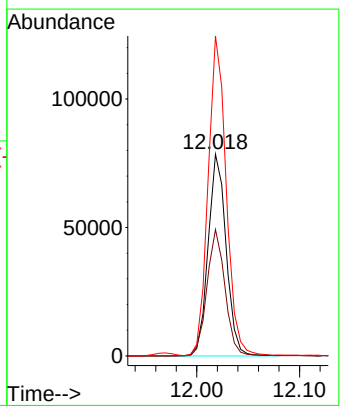
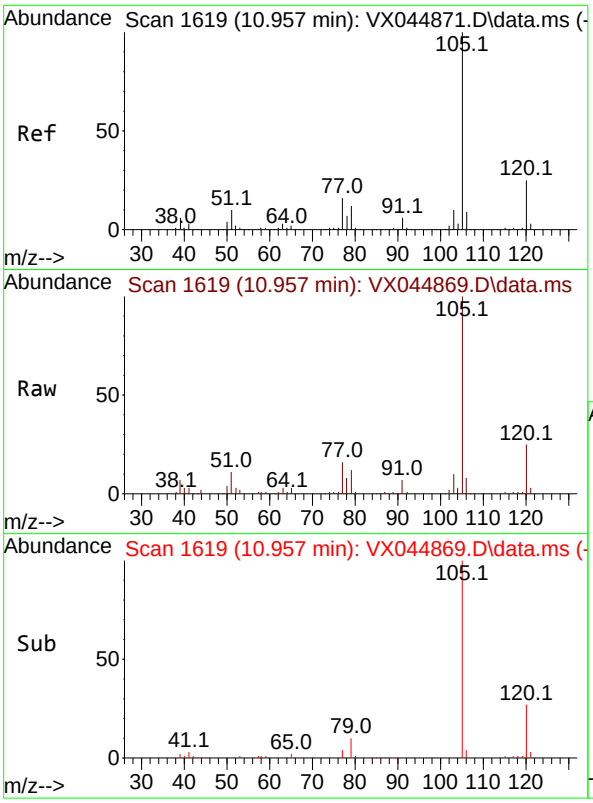


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:152 Resp: 95494

Ion	Ratio	Lower	Upper
152	100		
115	63.3	43.4	130.1
150	159.0	0.0	350.4

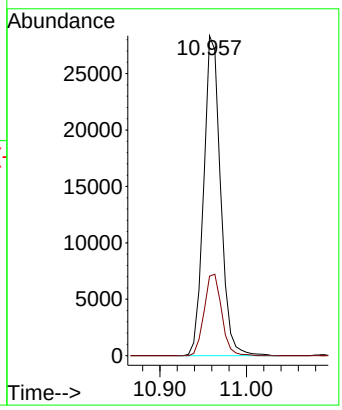




#73
Isopropylbenzene
Concen: 4.983 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 3831

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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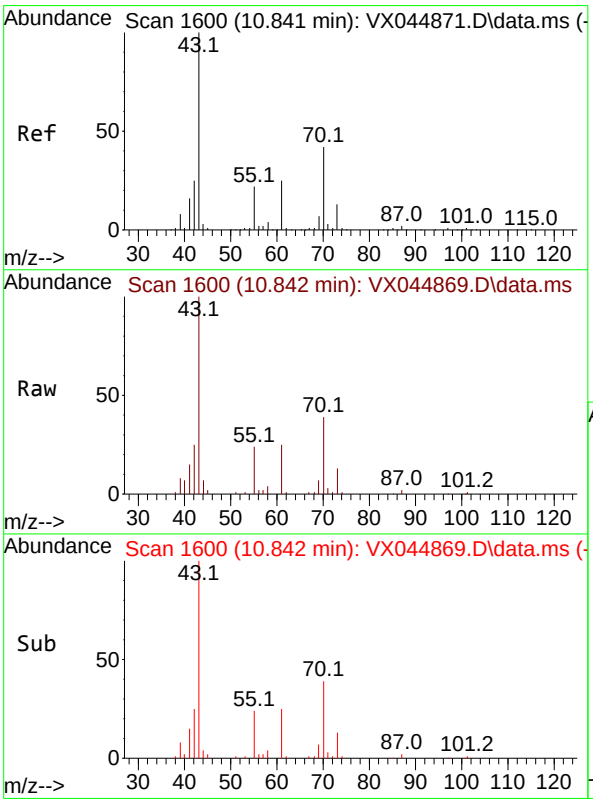
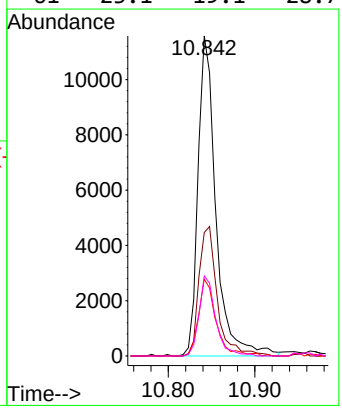
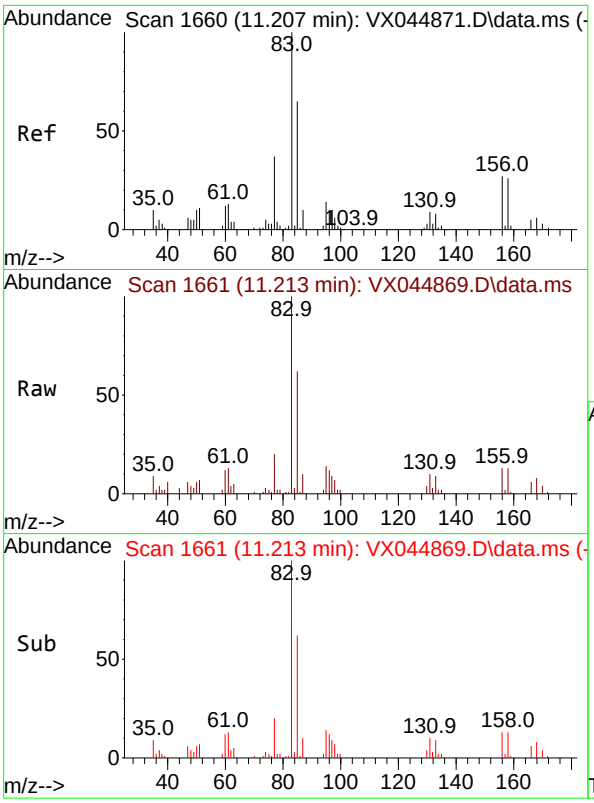


#74
N-amyl acetate
Concen: 4.786 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 16653

Ion	Ratio	Lower	Upper
43	100		
70	41.5	33.7	50.5
55	23.5	18.6	27.8
61	23.1	19.1	28.7

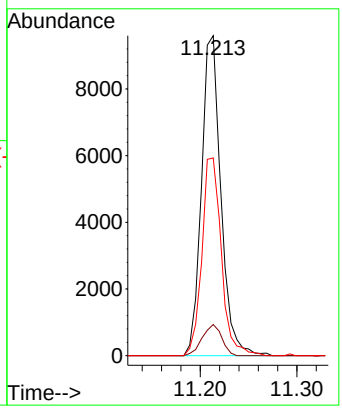




#75
1,1,2,2-Tetrachloroethane
Concen: 5.069 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 1339

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.5
85	62.1	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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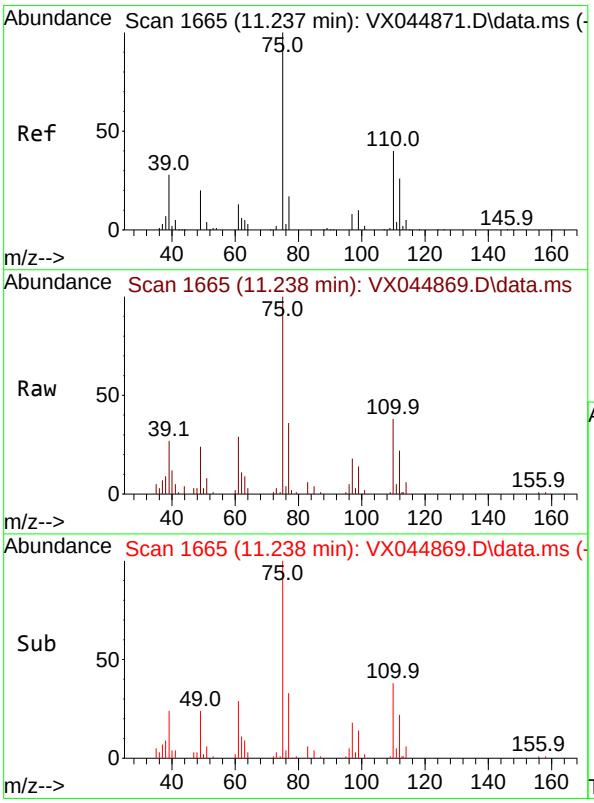
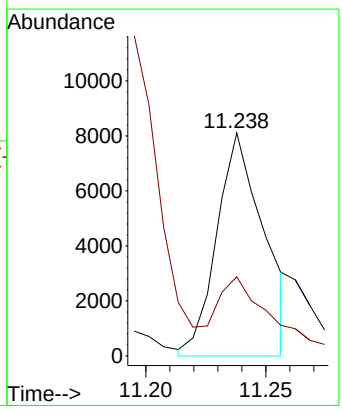
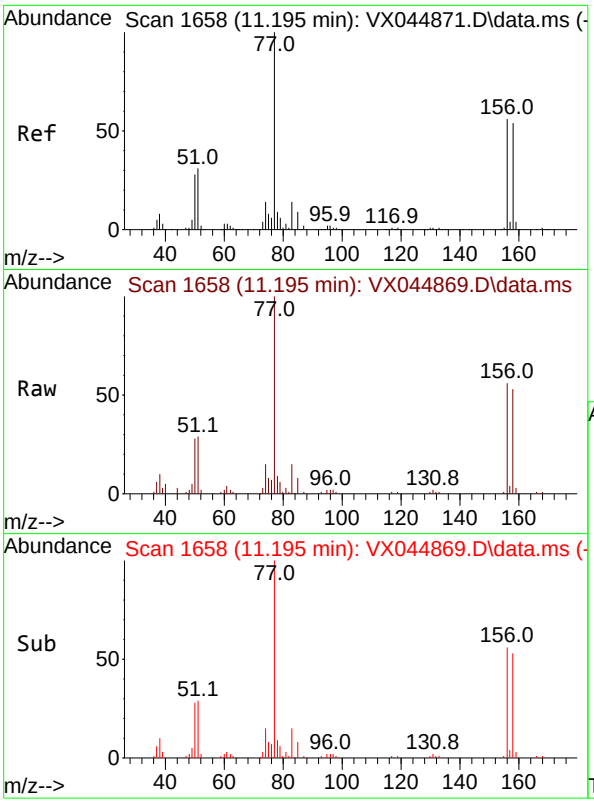


#76
1,2,3-Trichloropropane
Concen: 5.201 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 11011

Ion	Ratio	Lower	Upper
75	100		
77	44.1	21.9	65.7

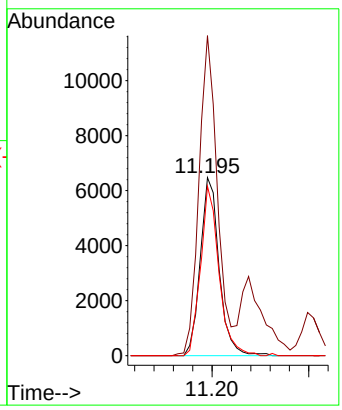




#77
Bromobenzene
Concen: 5.042 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:156 Resp: 878

Ion	Ratio	Lower	Upper
156	100		
77	174.1	88.4	265.3
158	92.9	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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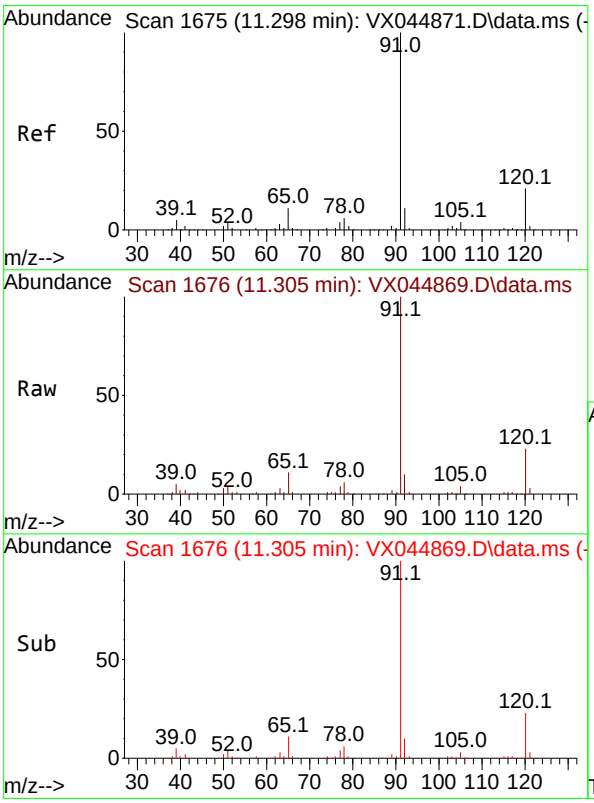
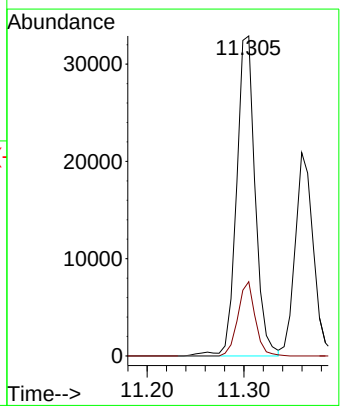
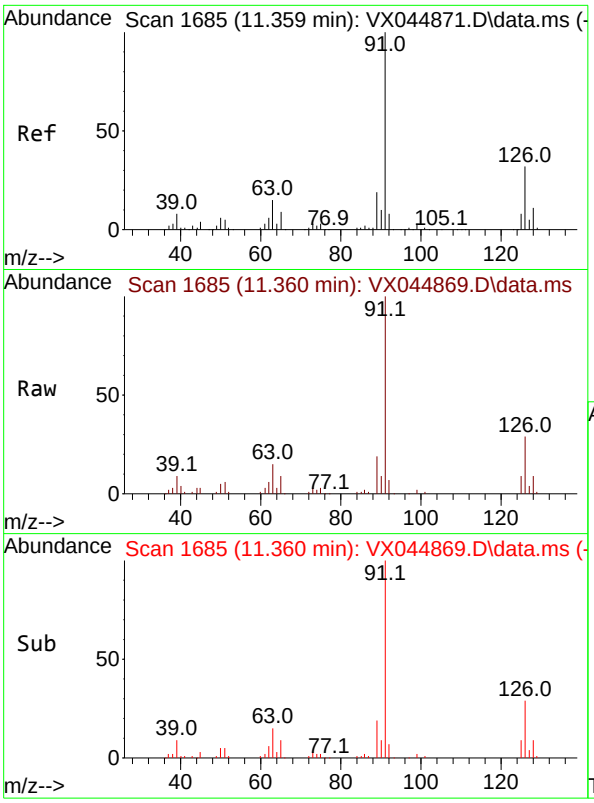


#78
n-propylbenzene
Concen: 4.949 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 43923

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.1	33.3





#79
2-Chlorotoluene
Concen: 5.007 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 2731

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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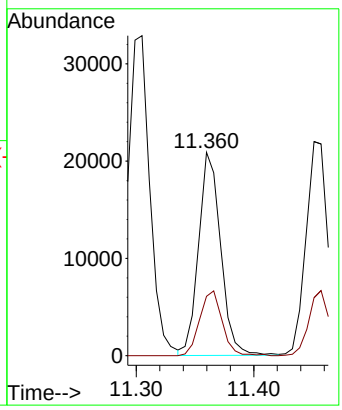
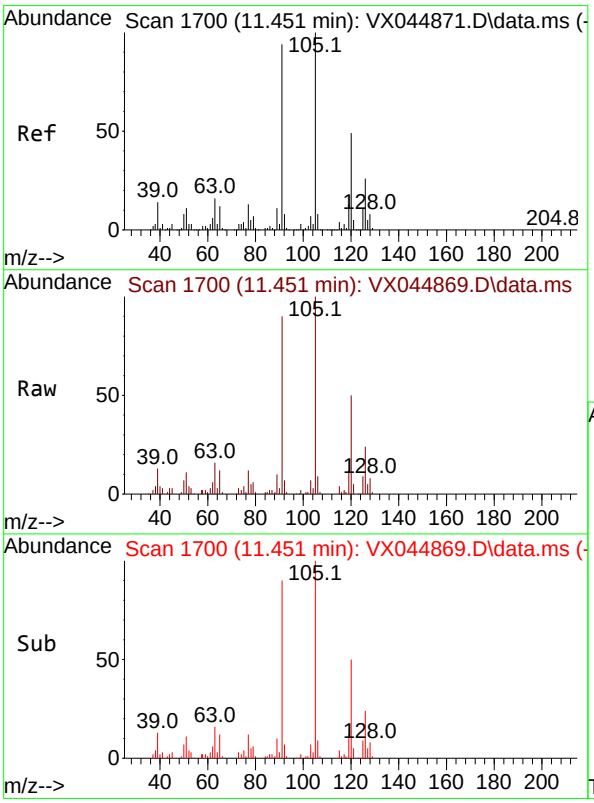
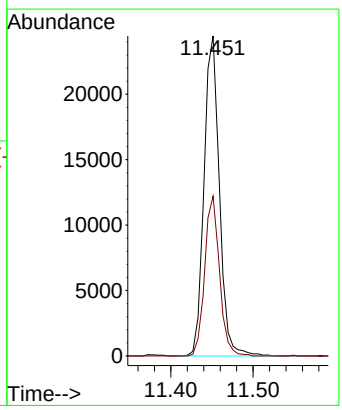


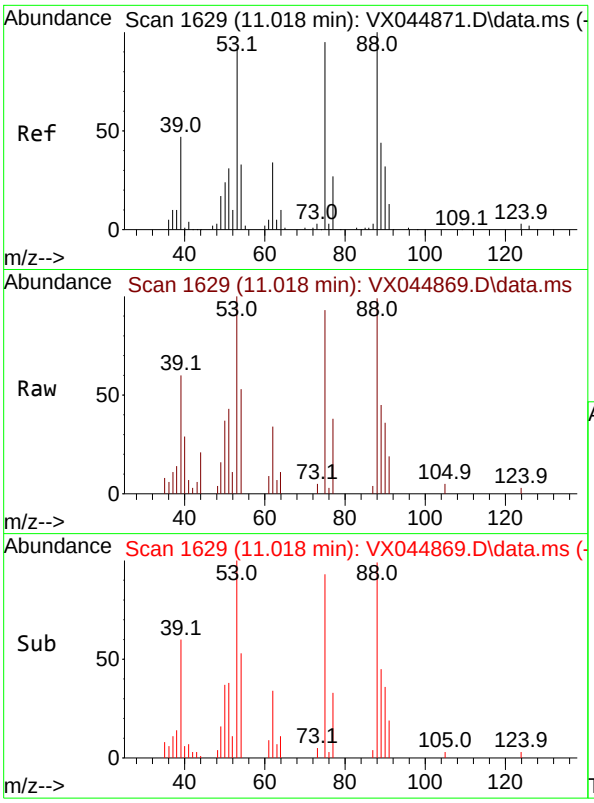


#80
1,3,5-Trimethylbenzene
Concen: 5.090 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31761

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0

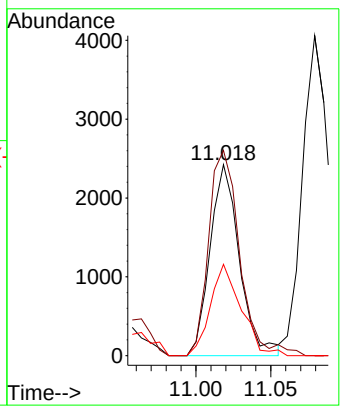




#81
trans-1,4-Dichloro-2-butene
Concen: 4.013 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 330

Ion	Ratio	Lower	Upper
75	100		
53	113.7	78.0	117.0
89	50.2	36.6	54.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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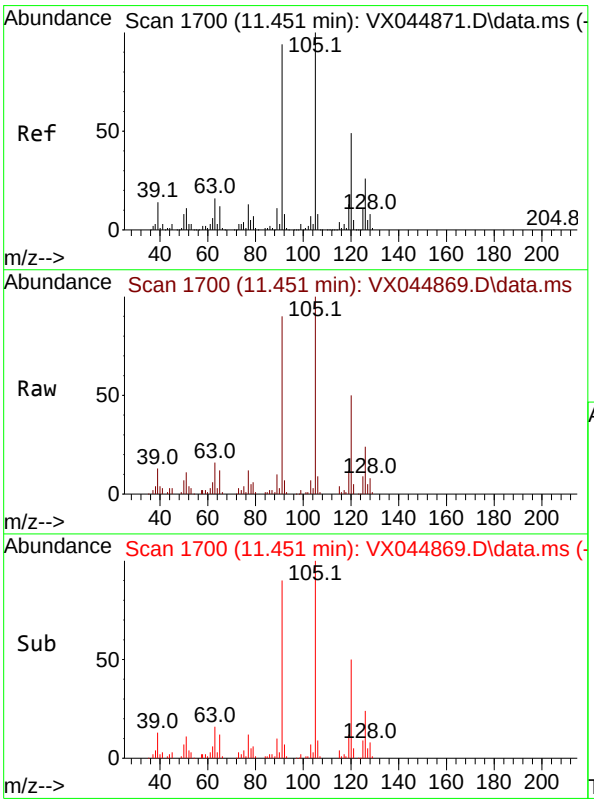
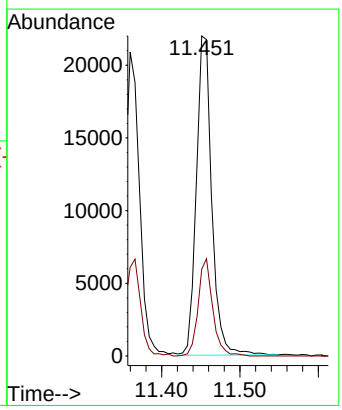
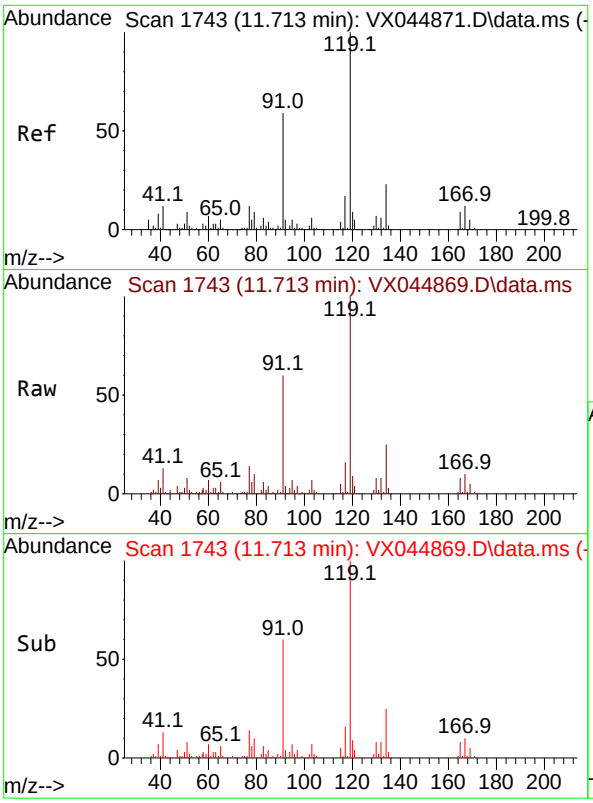


#82
4-Chlorotoluene
Concen: 4.994 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 30138

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6

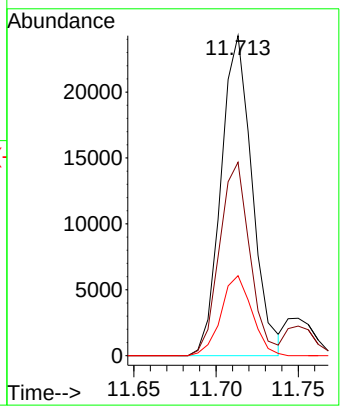




#83
tert-Butylbenzene
Concen: 5.068 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:119 Resp: 3199

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.1	87.4
134	24.7	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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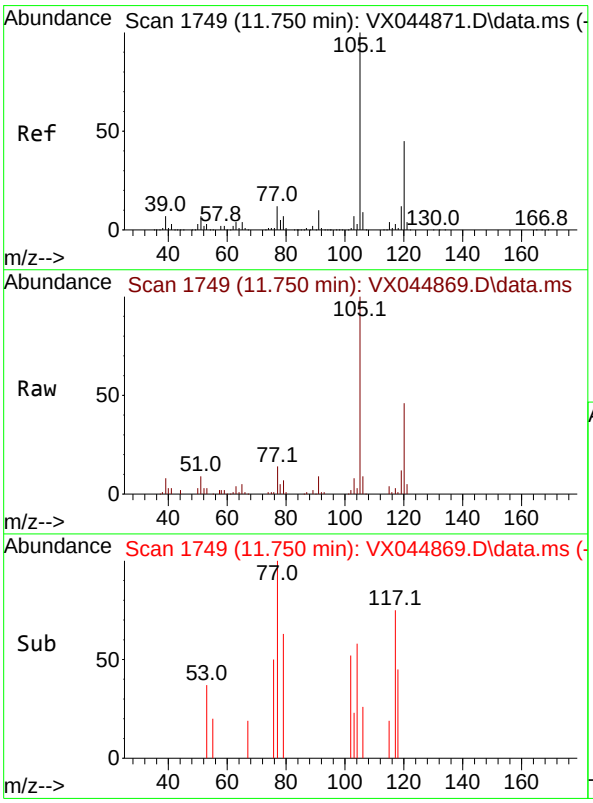
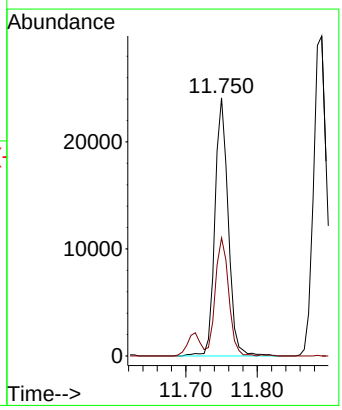
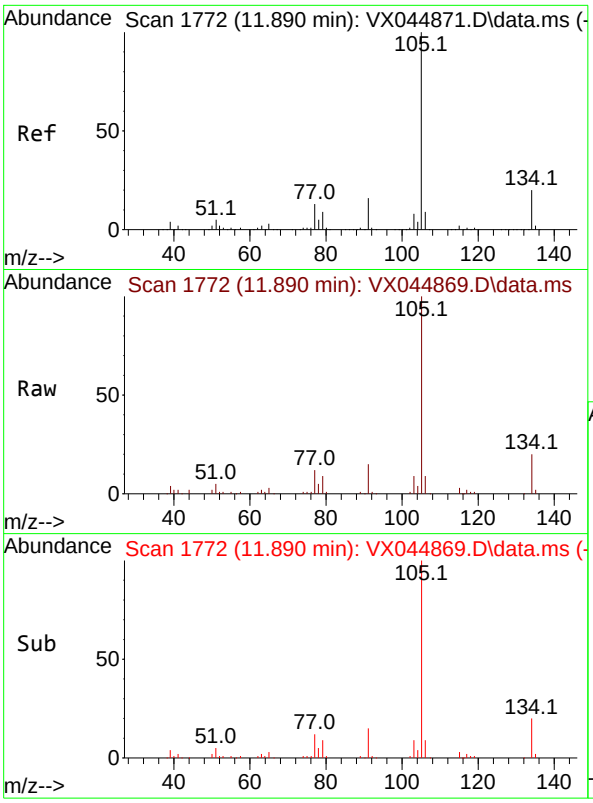


#84
1,2,4-Trimethylbenzene
Concen: 5.042 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31053

Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.4	67.0

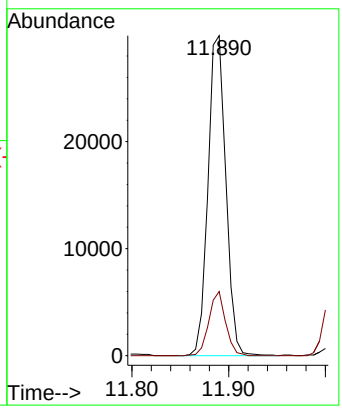




#85
sec-Butylbenzene
Concen: 4.917 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 3843

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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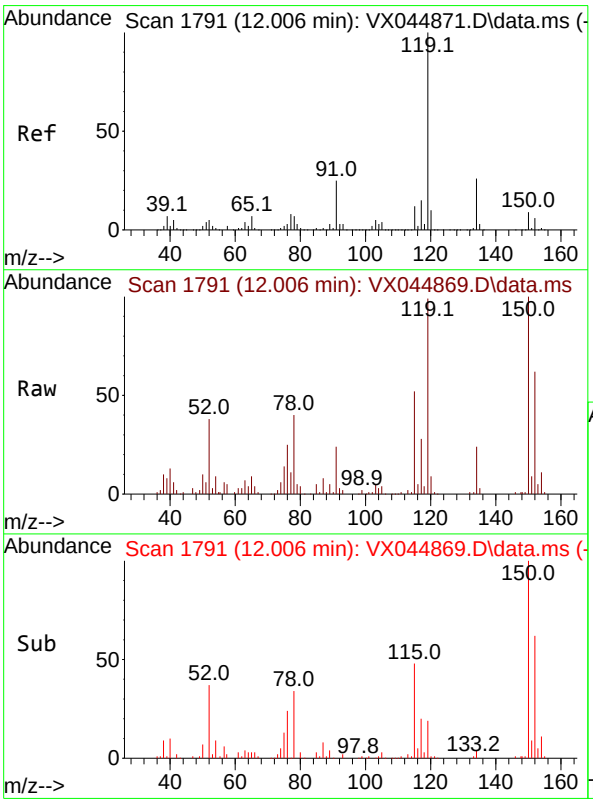
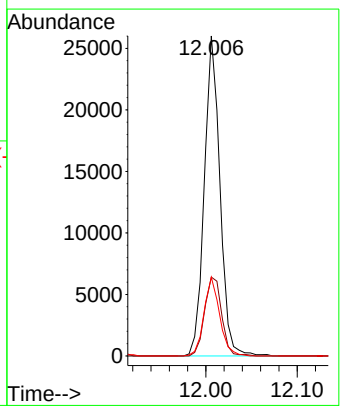
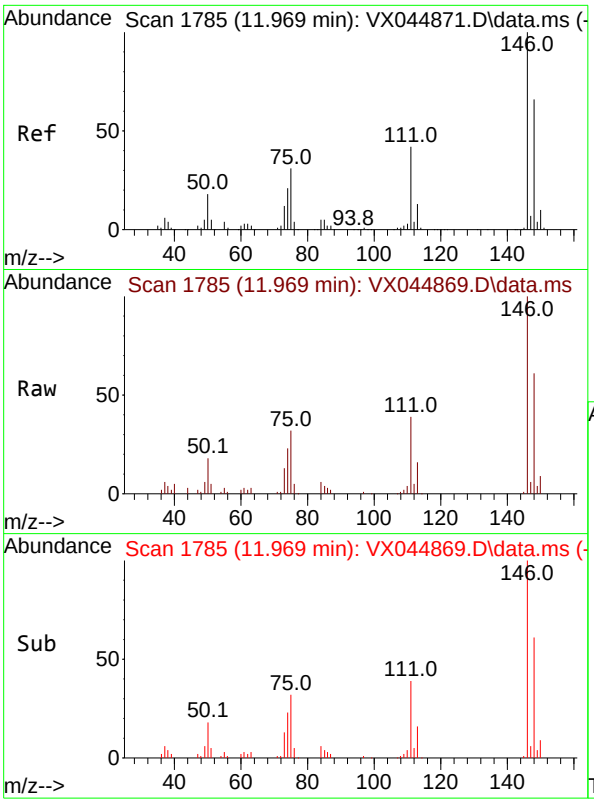


#86
p-Isopropyltoluene
Concen: 4.905 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:119 Resp: 30835

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.0	38.9
91	24.6	12.1	36.3

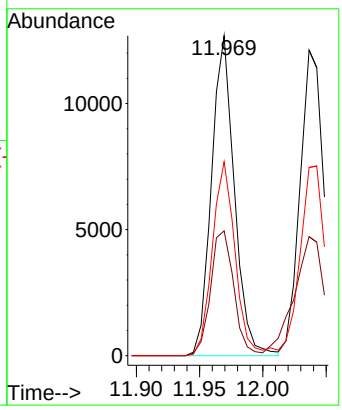




#87
1,3-Dichlorobenzene
Concen: 4.971 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:146 Resp: 1593

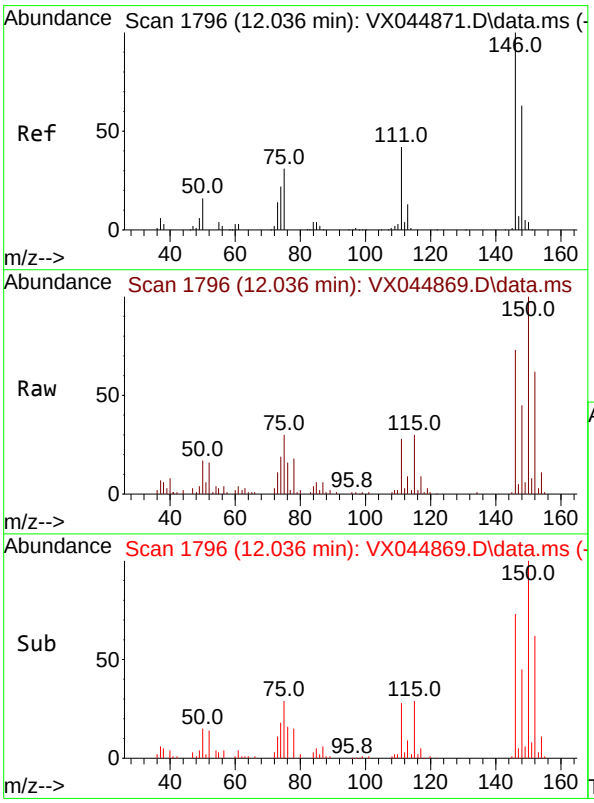
Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.2	63.6
148	60.0	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

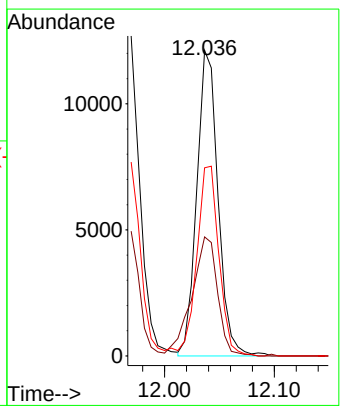
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

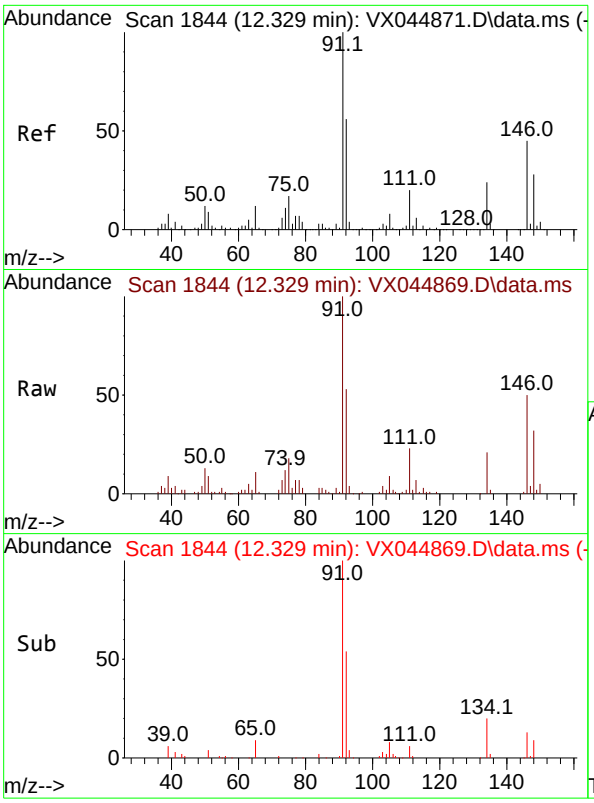


#88
1,4-Dichlorobenzene
Concen: 5.043 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:146 Resp: 16347

Ion	Ratio	Lower	Upper
146	100		
111	47.4	20.4	61.3
148	65.3	32.0	96.0

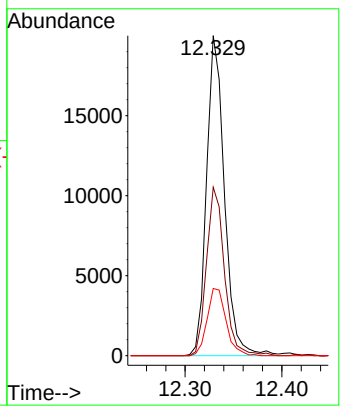




#89
n-Butylbenzene
Concen: 4.630 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 2574

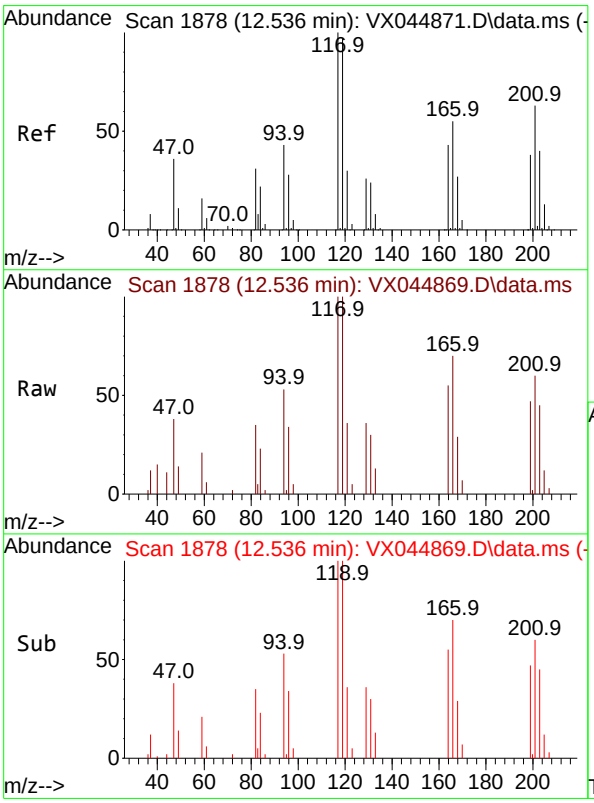
Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.2	81.6
134	22.3	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

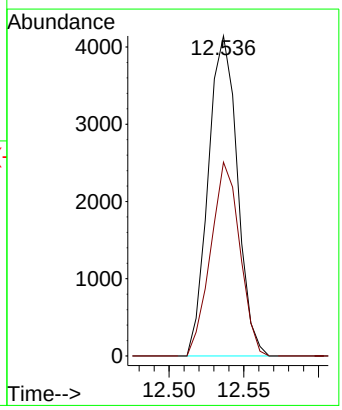
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

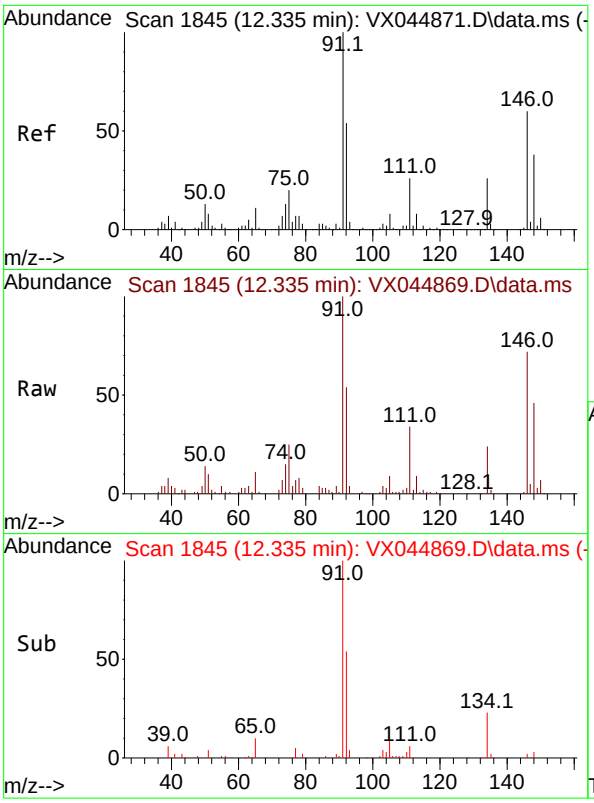


#90
Hexachloroethane
Concen: 4.775 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 5620

Ion	Ratio	Lower	Upper
117	100		
201	60.6	32.5	97.5

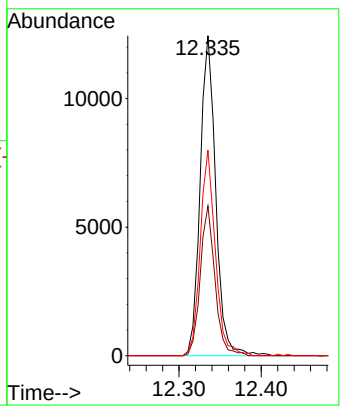




#91
1,2-Dichlorobenzene
Concen: 5.193 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:146 Resp: 1636

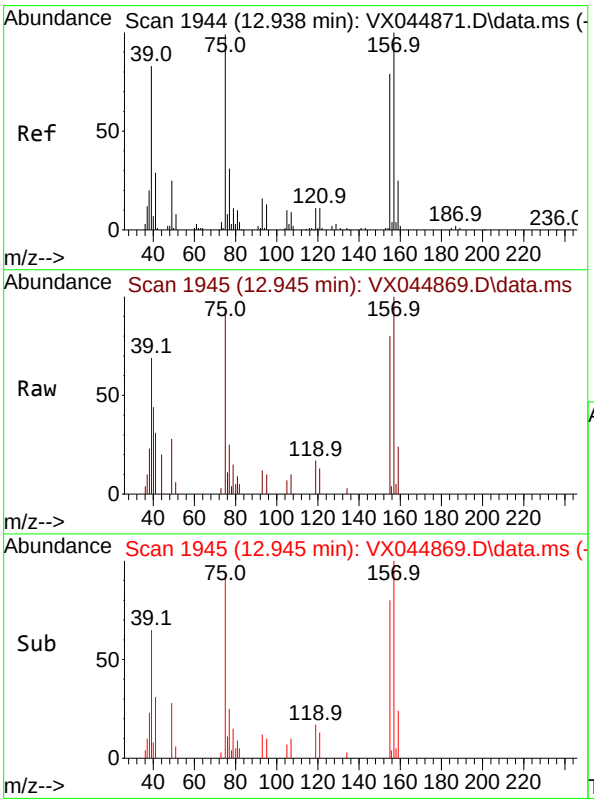
Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.8	65.4
148	62.7	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

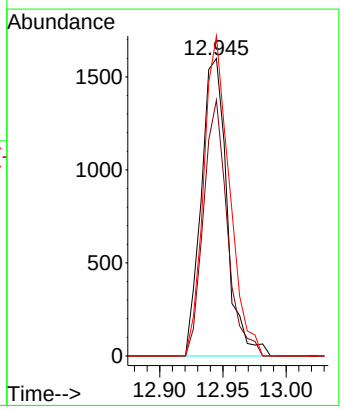
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

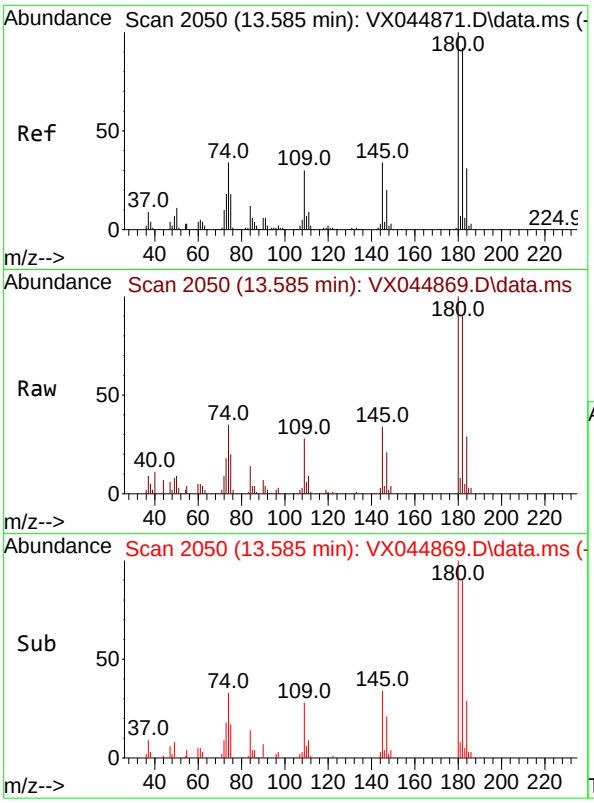


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.674 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 2254

Ion	Ratio	Lower	Upper
75	100		
155	80.0	40.5	121.4
157	108.1	51.4	154.3

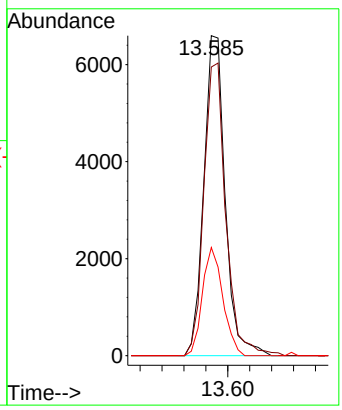




#93
1,2,4-Trichlorobenzene
Concen: 4.680 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:180 Resp: 892

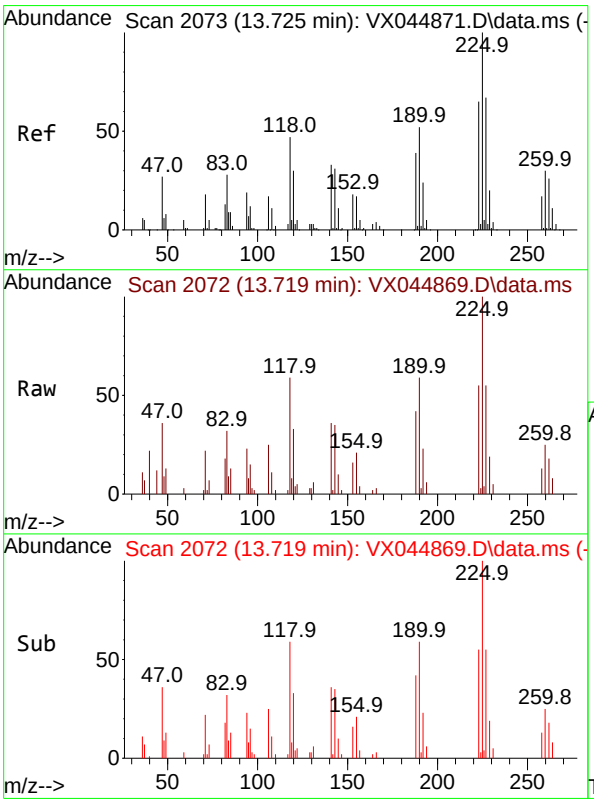
Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.6	142.8
145	32.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

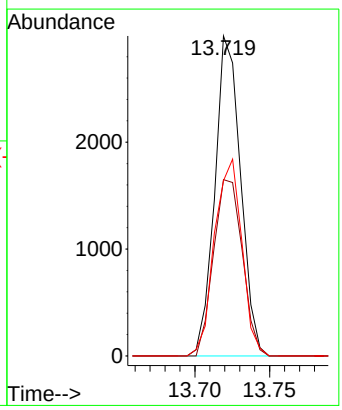
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

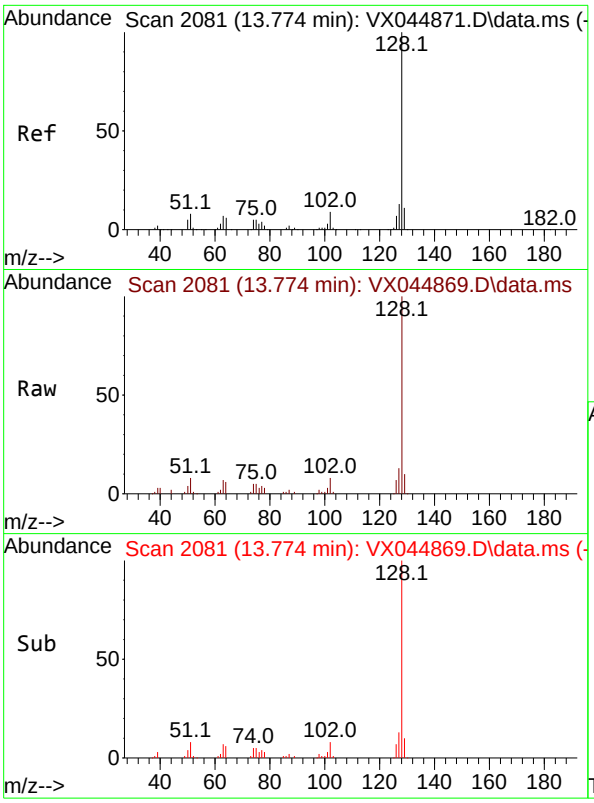


#94
Hexachlorobutadiene
Concen: 4.750 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:225 Resp: 3595

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.4	94.2
227	65.1	32.3	96.8

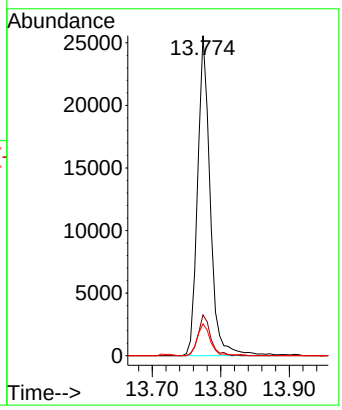




#95
Naphthalene
Concen: 4.756 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:128 Resp: 3277

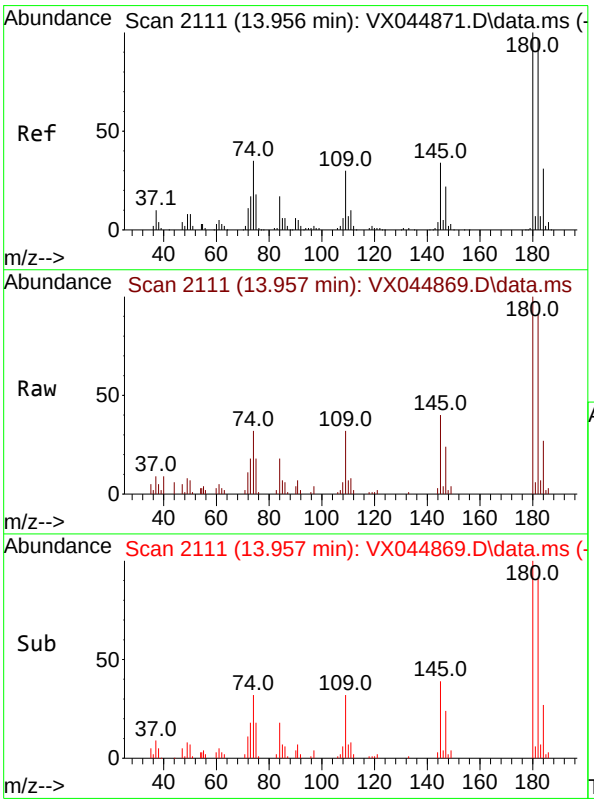
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.3	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

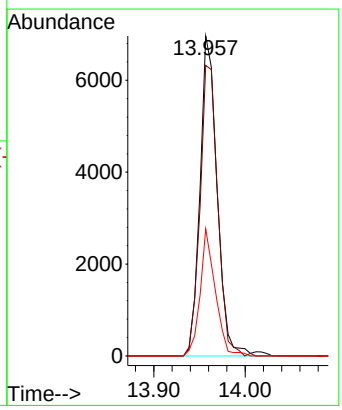
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.733 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:180 Resp: 9093

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.9	143.6
145	35.0	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	129532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	234445	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	207667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	37195	19.616	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 39.240%#			
35) Dibromofluoromethane	5.379	113	30170	19.793	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 39.580%#			
50) Toluene-d8	8.647	98	117127	20.321	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 40.640%#			
62) 4-Bromofluorobenzene	11.079	95	38475	19.800	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 39.600%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	37123	20.434	ug/l	98
3) Chloromethane	1.301	50	44666	20.200	ug/l	95
4) Vinyl Chloride	1.374	62	43901	20.494	ug/l	99
5) Bromomethane	1.593	94	13057	20.369	ug/l	99
6) Chloroethane	1.660	64	14523	16.522	ug/l	94
7) Trichlorofluoromethane	1.868	101	56805	20.969	ug/l	98
8) Diethyl Ether	2.130	74	20699	21.069	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	34593	21.135	ug/l	99
10) Methyl Iodide	2.441	142	44749	21.096	ug/l	99
11) Tert butyl alcohol	2.989	59	35834	101.870	ug/l	100
12) 1,1-Dichloroethene	2.307	96	34270	20.526	ug/l	99
13) Acrolein	2.233	56	33914	93.445	ug/l	99
14) Allyl chloride	2.654	41	61485	20.377	ug/l	98
15) Acrylonitrile	3.063	53	98518	104.896	ug/l	98
16) Acetone	2.380	43	77078	101.119	ug/l	98
17) Carbon Disulfide	2.502	76	92552	20.216	ug/l	99
18) Methyl Acetate	2.703	43	47970	19.943	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	110377	20.779	ug/l	98
20) Methylene Chloride	2.782	84	38390	20.562	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	34064	20.730	ug/l	92
22) Diisopropyl ether	3.757	45	120300	21.074	ug/l	93
23) Vinyl Acetate	3.715	43	490239	105.341	ug/l	99
24) 1,1-Dichloroethane	3.599	63	66942	20.958	ug/l	99
25) 2-Butanone	4.556	43	130481	105.417	ug/l	96
26) 2,2-Dichloropropane	4.471	77	51803	20.451	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	42096	21.328	ug/l	97
28) Bromochloromethane	4.885	49	31474	20.504	ug/l	99
29) Tetrahydrofuran	5.001	42	86875	105.700	ug/l	99
30) Chloroform	5.087	83	65721	21.217	ug/l	98
31) Cyclohexane	5.458	56	60814	20.653	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	54450	20.724	ug/l	100
36) 1,1-Dichloropropene	5.684	75	45991	20.913	ug/l	99
37) Ethyl Acetate	4.715	43	51242	20.949	ug/l	99
38) Carbon Tetrachloride	5.666	117	44802	20.790	ug/l	99
39) Methylcyclohexane	7.373	83	62505	21.985	ug/l	98
40) Benzene	6.031	78	147912	21.540	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	27347	20.887	ug/l		94
42) 1,2-Dichloroethane	6.086	62	47095	21.519	ug/l		100
43) Isopropyl Acetate	6.336	43	84306	21.343	ug/l		99
44) Trichloroethene	7.123	130	34390	21.910	ug/l		96
45) 1,2-Dichloropropane	7.428	63	36510	21.371	ug/l		99
46) Dibromomethane	7.574	93	25300	21.354	ug/l		99
47) Bromodichloromethane	7.818	83	48202	21.012	ug/l		97
48) Methyl methacrylate	7.690	41	39747	21.341	ug/l		100
49) 1,4-Dioxane	7.665	88	17153	429.262	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	263394	109.684	ug/l		99
52) Toluene	8.714	92	89726	21.940	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	48613	20.940	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	55026	21.259	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	33930	21.582	ug/l		98
56) Ethyl methacrylate	9.116	69	54674	21.533	ug/l		99
57) 1,3-Dichloropropane	9.305	76	60079	21.841	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	133072	106.736	ug/l		100
59) 2-Hexanone	9.427	43	190449	110.072	ug/l		98
60) Dibromochloromethane	9.519	129	35706	21.237	ug/l		99
61) 1,2-Dibromoethane	9.604	107	34463	21.628	ug/l		100
64) Tetrachloroethene	9.269	164	28519	21.776	ug/l		97
65) Chlorobenzene	10.073	112	94695	21.230	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	30344	21.136	ug/l		99
67) Ethyl Benzene	10.189	91	167865	21.327	ug/l		100
68) m/p-Xylenes	10.299	106	125271	43.144	ug/l		99
69) o-Xylene	10.640	106	62087	21.310	ug/l		97
70) Styrene	10.653	104	103740	22.101	ug/l		98
71) Bromoform	10.799	173	22592	21.086	ug/l	#	99
73) Isopropylbenzene	10.957	105	160147	21.597	ug/l		99
74) N-amyl acetate	10.842	43	70542	21.023	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	52967	20.787	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	42040m	20.589	ug/l		
77) Bromobenzene	11.195	156	36021	21.426	ug/l		97
78) n-propylbenzene	11.299	91	183212	21.406	ug/l		99
79) 2-Chlorotoluene	11.360	91	111782	21.250	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	130526	21.691	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	15375	19.370	ug/l		96
82) 4-Chlorotoluene	11.451	91	122303	21.016	ug/l		100
83) tert-Butylbenzene	11.713	119	130358	21.414	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	130211	21.924	ug/l		100
85) sec-Butylbenzene	11.890	105	162875	21.607	ug/l		100
86) p-Isopropyltoluene	12.006	119	130643	21.551	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	64141	20.747	ug/l		100
88) 1,4-Dichlorobenzene	12.037	146	64889	20.758	ug/l		98
89) n-Butylbenzene	12.329	91	113705	21.202	ug/l		100
90) Hexachloroethane	12.536	117	23153	20.398	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	64940	21.373	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9873	21.230	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	37308	20.292	ug/l		99
94) Hexachlorobutadiene	13.725	225	15312	20.979	ug/l		96
95) Naphthalene	13.774	128	142902	21.502	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	38389	20.722	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

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

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

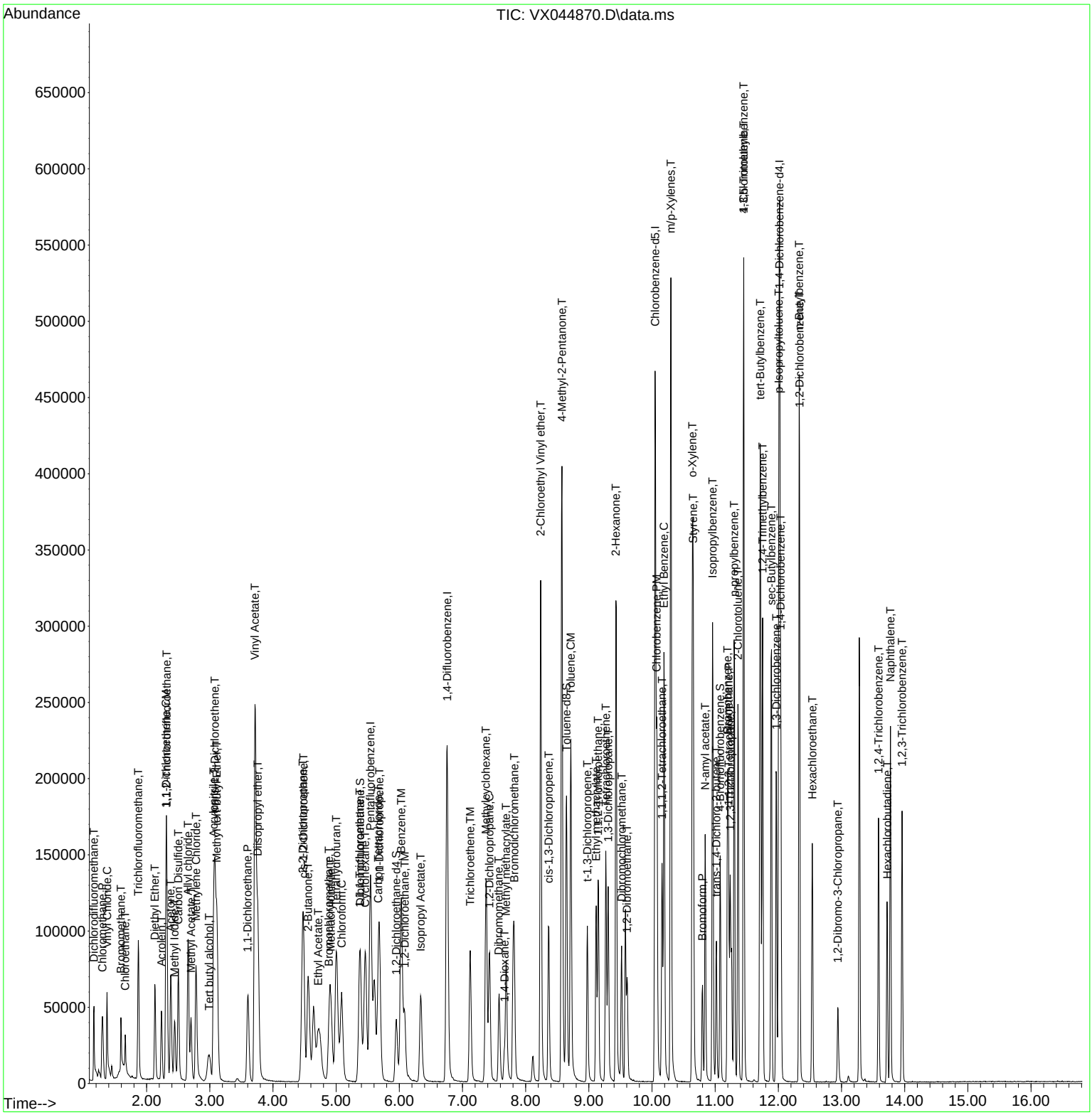
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

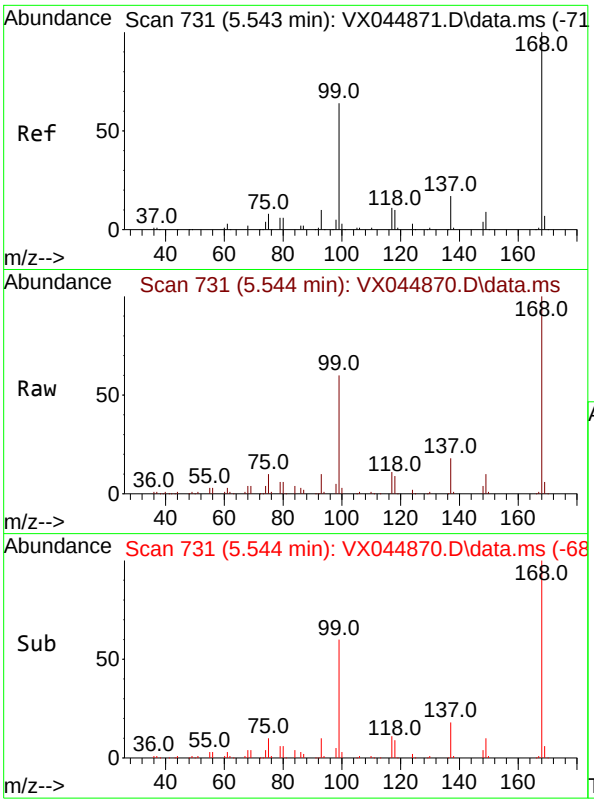
Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

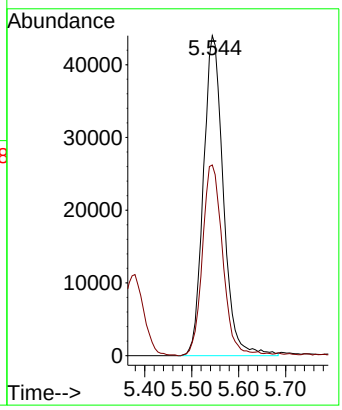




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:168 Resp: 12953

Ion	Ratio	Lower	Upper
168	100		
99	59.6	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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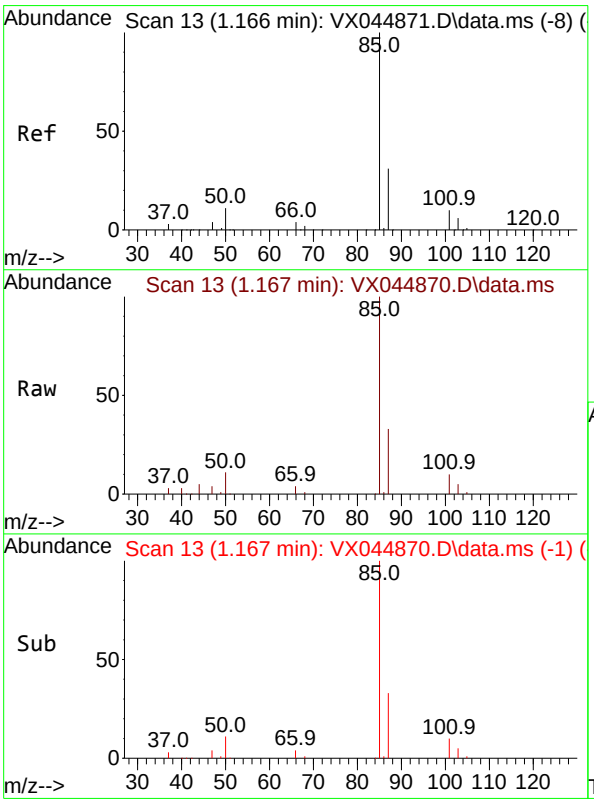
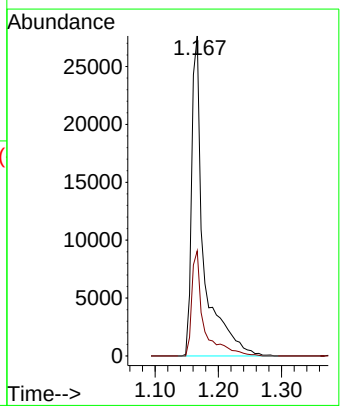
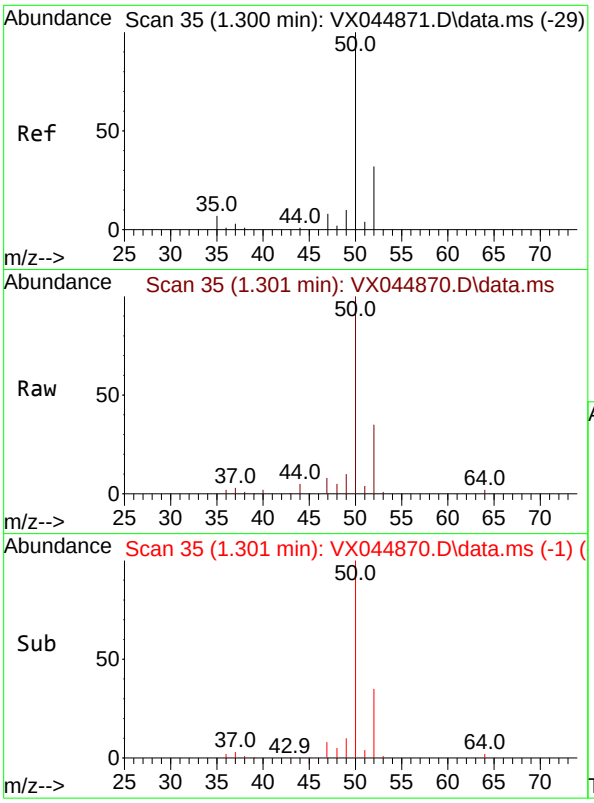


#2
Dichlorodifluoromethane
Concen: 20.434 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 85 Resp: 37123

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3

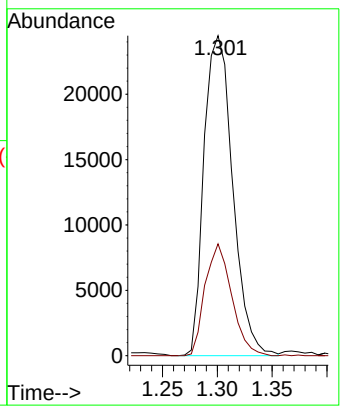




#3
Chloromethane
Concen: 20.200 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 50 Resp: 4466

Ion	Ratio	Lower	Upper
50	100		
52	35.0	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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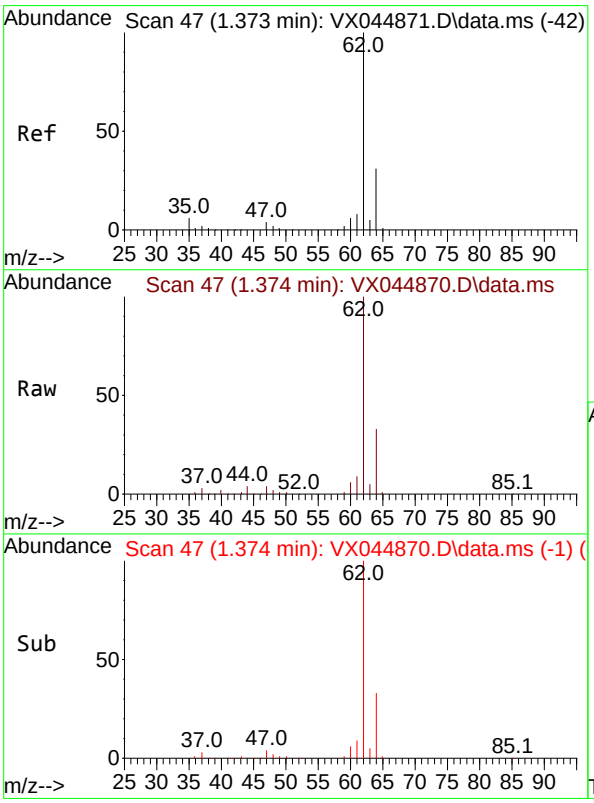
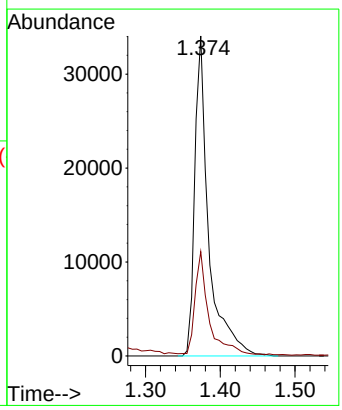
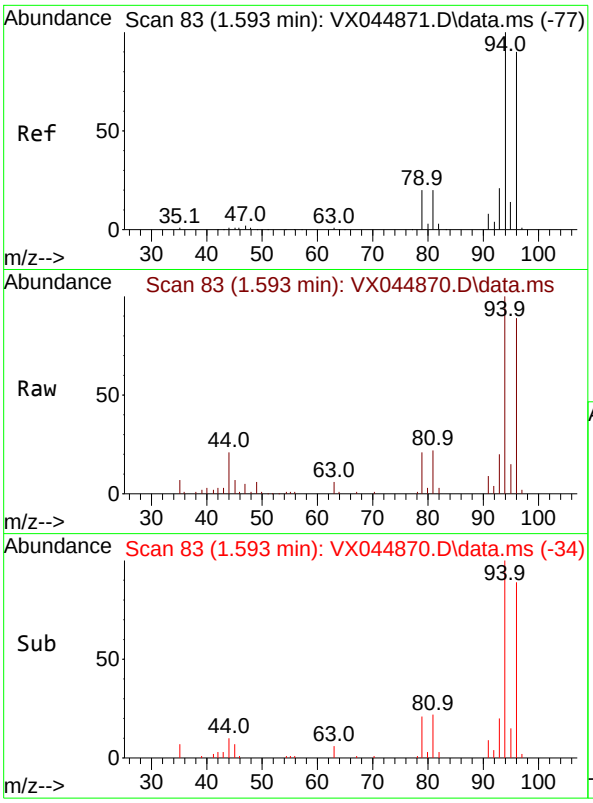


#4
Vinyl Chloride
Concen: 20.494 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 43901

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0

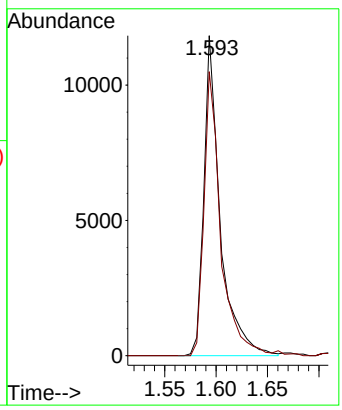




#5
Bromomethane
Concen: 20.369 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 94 Resp: 1305

Ion	Ratio	Lower	Upper
94	100		
96	88.8	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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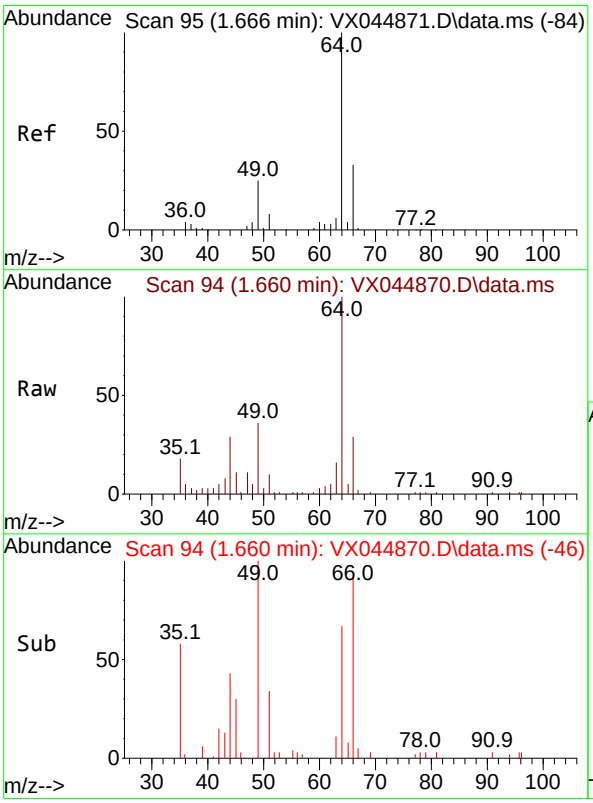
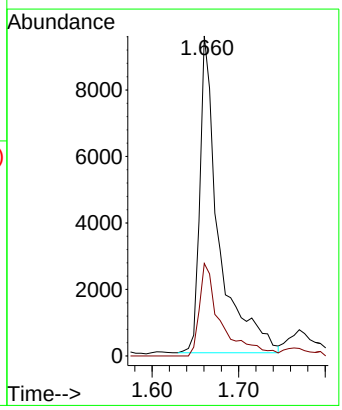
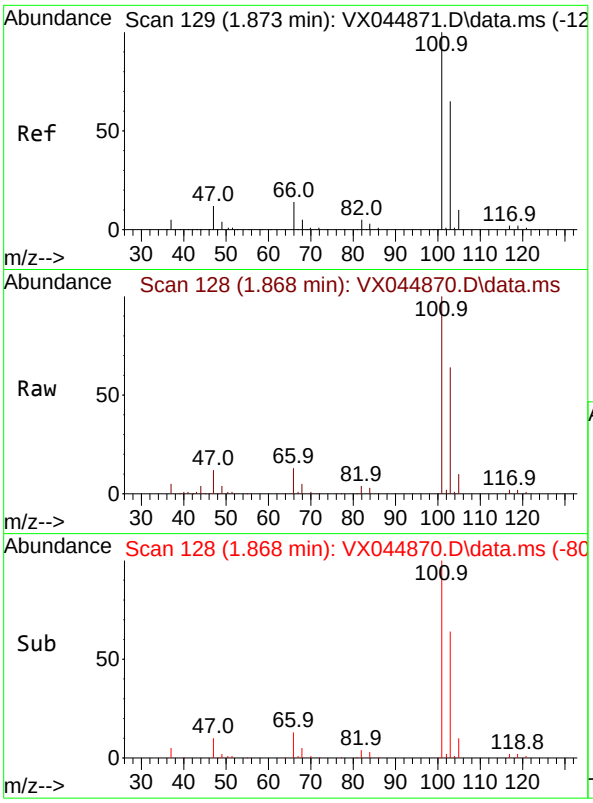


#6
Chloroethane
Concen: 16.522 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 64 Resp: 14523

Ion	Ratio	Lower	Upper
64	100		
66	29.2	25.9	38.9

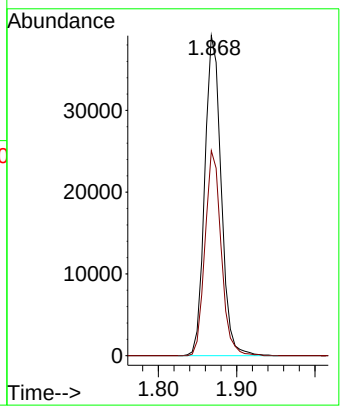




#7
Trichlorofluoromethane
Concen: 20.969 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:101 Resp: 5680

Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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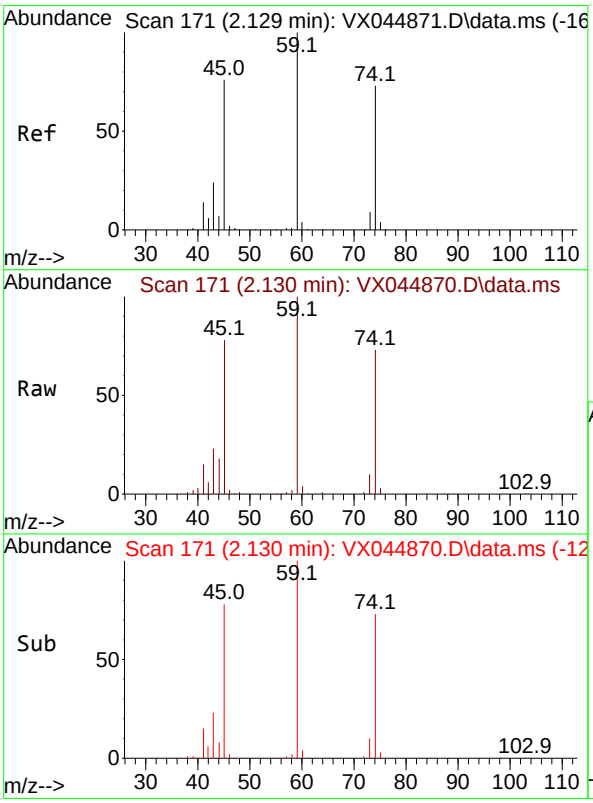
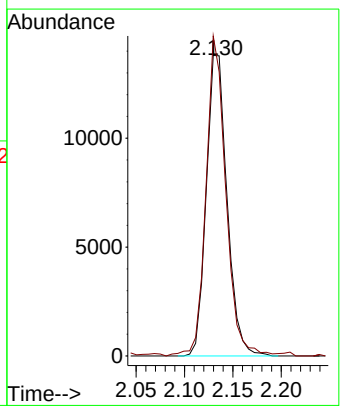
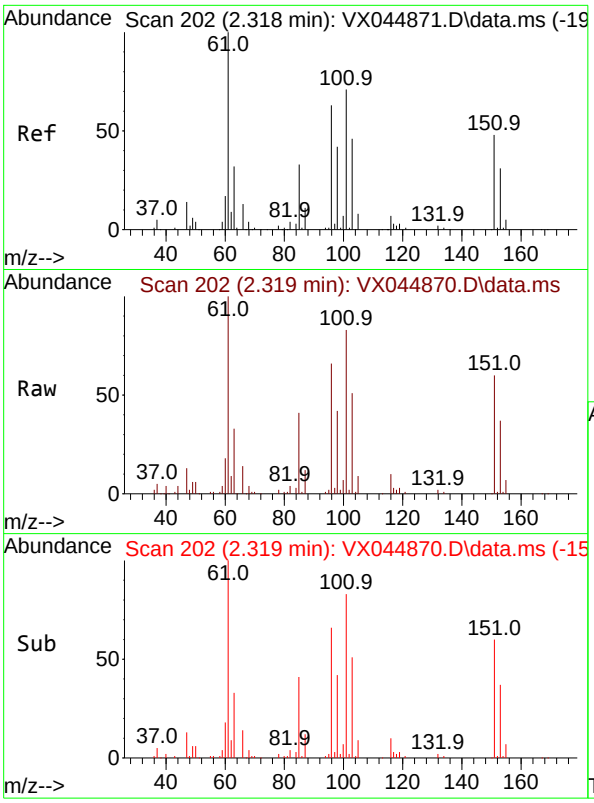


#8
Diethyl Ether
Concen: 21.069 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 74 Resp: 20699

Ion	Ratio	Lower	Upper
74	100		
45	101.2	51.1	153.4

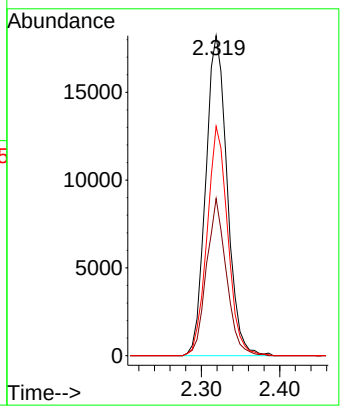




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.135 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:101 Resp: 3459

Ion	Ratio	Lower	Upper
101	100		
85	45.7	35.7	53.5
151	69.4	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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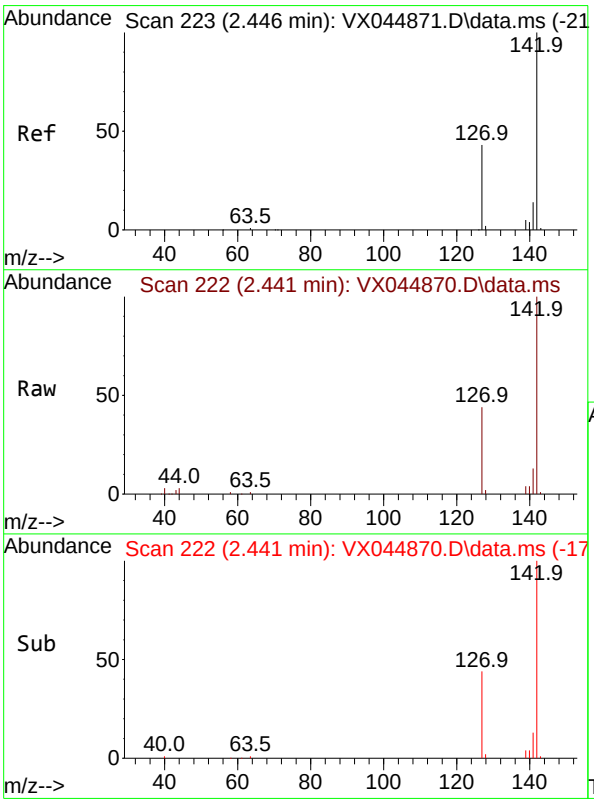
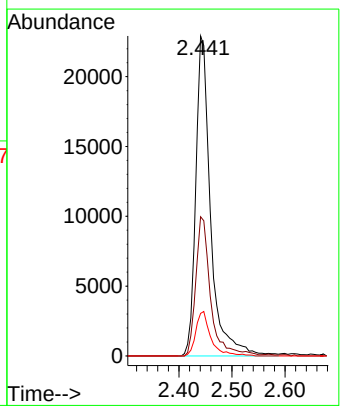
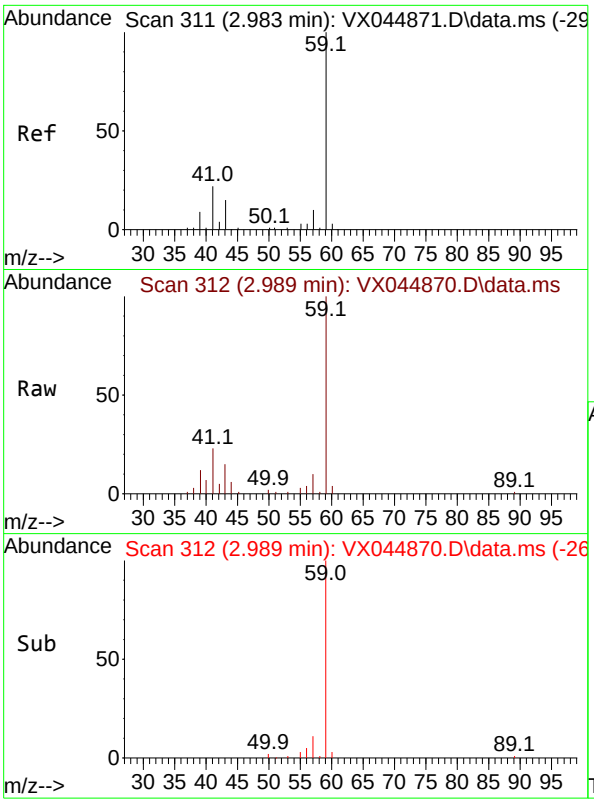


#10
Methyl Iodide
Concen: 21.096 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:142 Resp: 44749

Ion	Ratio	Lower	Upper
142	100		
127	43.4	34.3	51.5
141	14.0	11.4	17.2

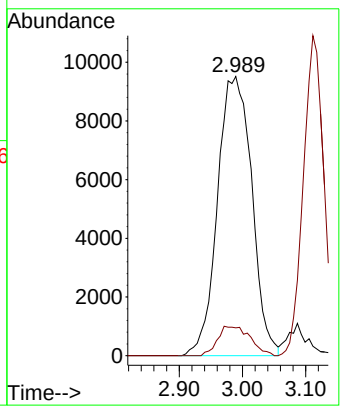




#11
Tert butyl alcohol
Concen: 101.870 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 59 Resp: 3583

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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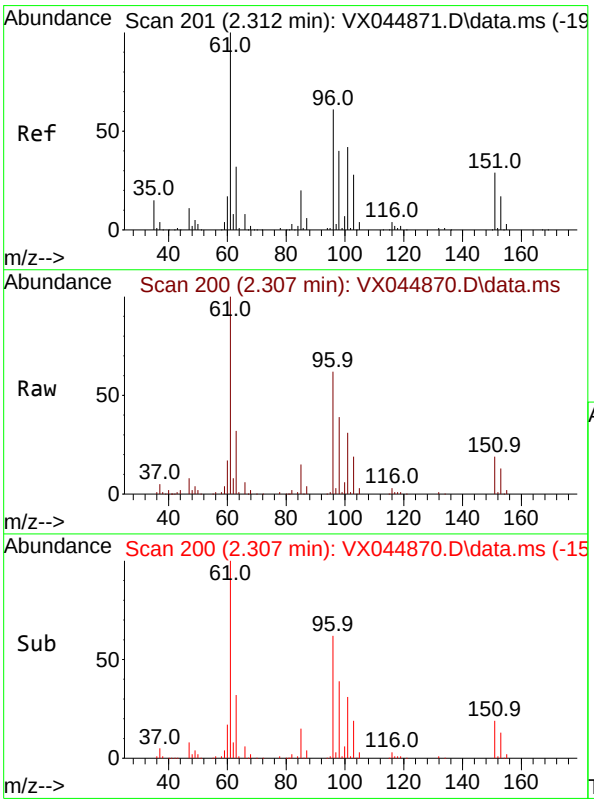
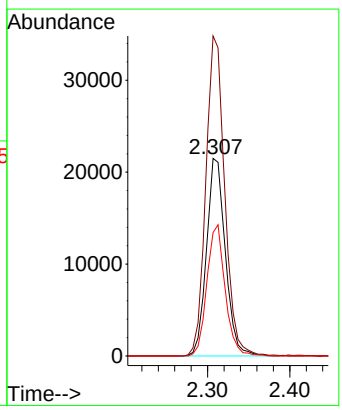
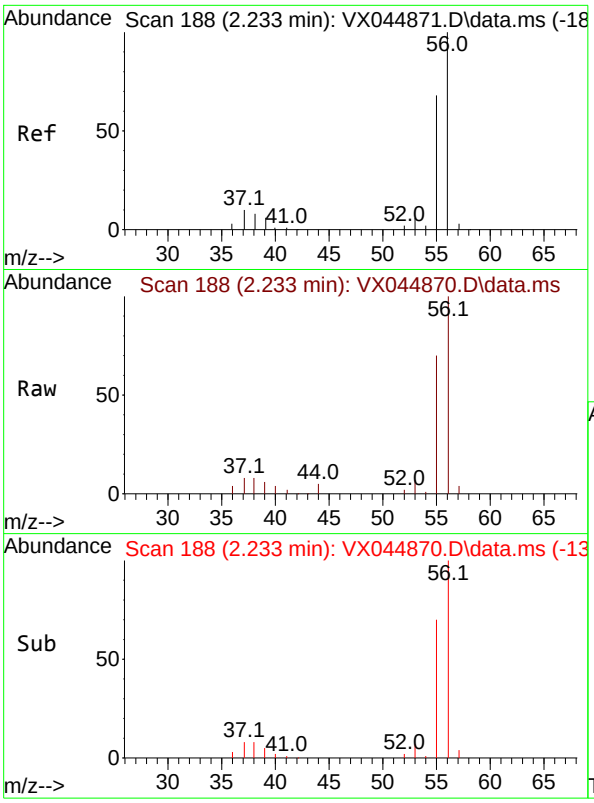


#12
1,1-Dichloroethene
Concen: 20.526 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 96 Resp: 34270

Ion	Ratio	Lower	Upper
96	100		
61	161.9	130.2	195.4
98	62.4	52.2	78.4

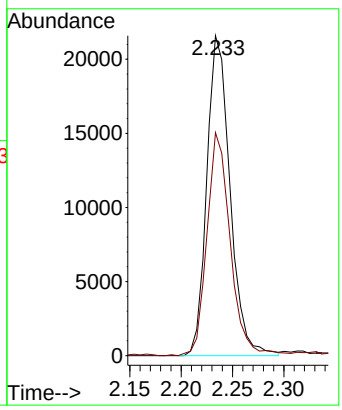




#13
Acrolein
Concen: 93.445 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 56 Resp: 3391

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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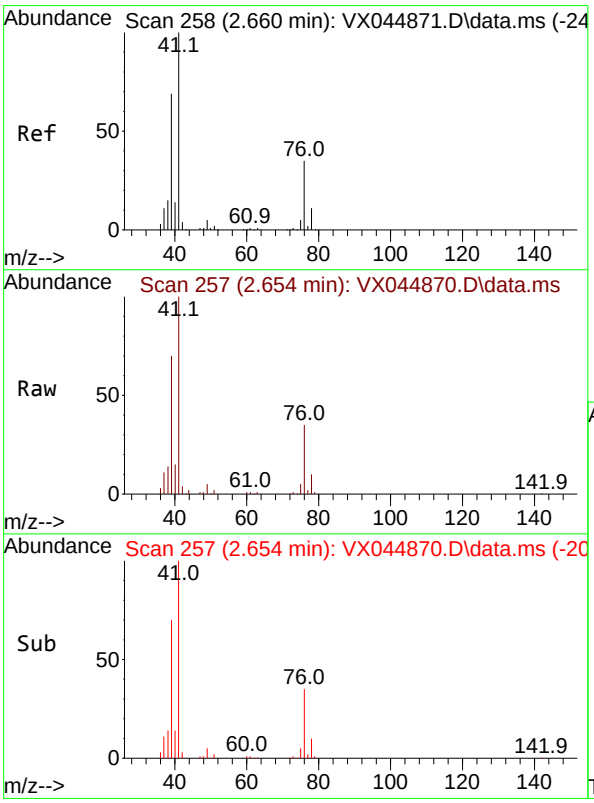
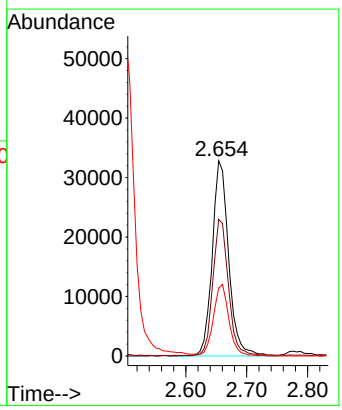
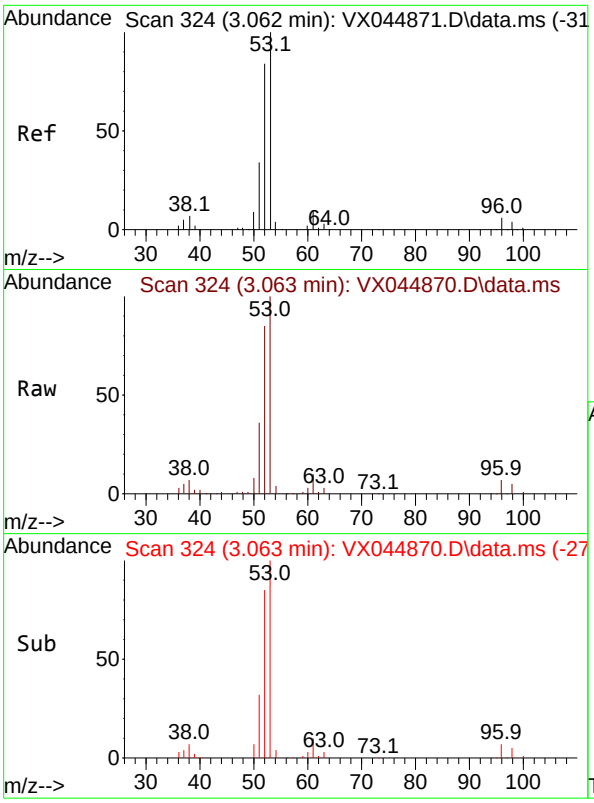


#14
Allyl chloride
Concen: 20.377 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 61485

Ion	Ratio	Lower	Upper
41	100		
39	65.8	51.4	77.2
76	34.9	27.0	40.4

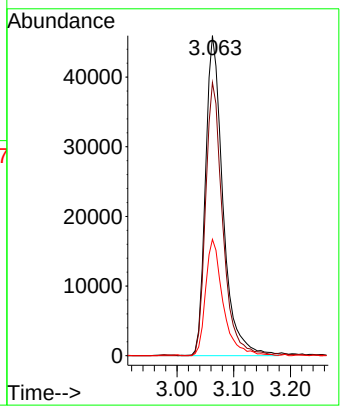




#15
Acrylonitrile
Concen: 104.896 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 53 Resp: 9851

Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.0	97.6
51	36.3	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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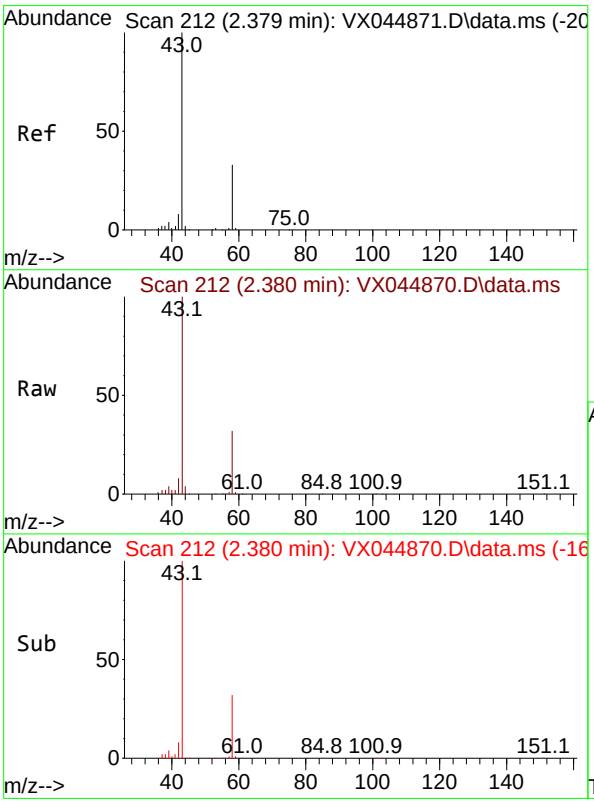
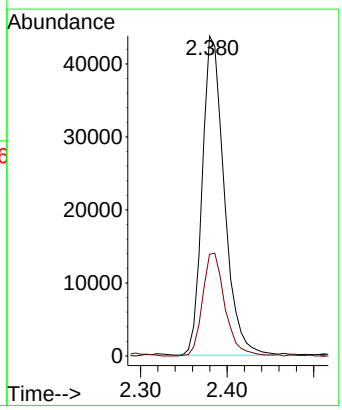
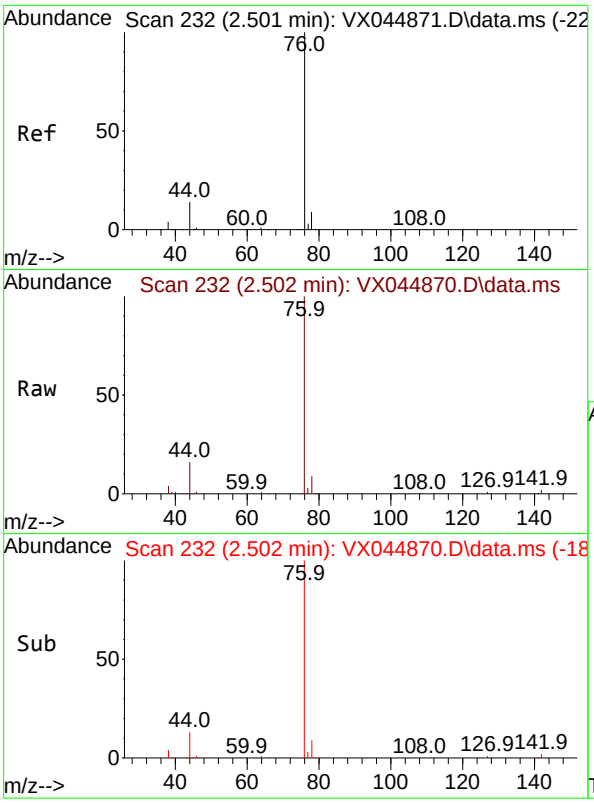


#16
Acetone
Concen: 101.119 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 77078

Ion	Ratio	Lower	Upper
43	100		
58	31.9	26.5	39.7

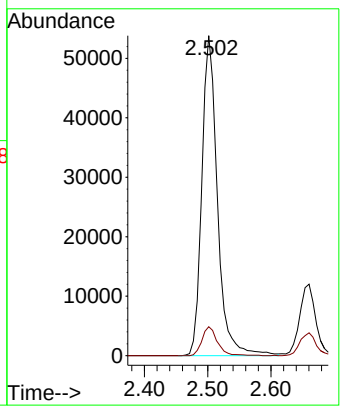




#17
Carbon Disulfide
Concen: 20.216 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 76 Resp: 9255

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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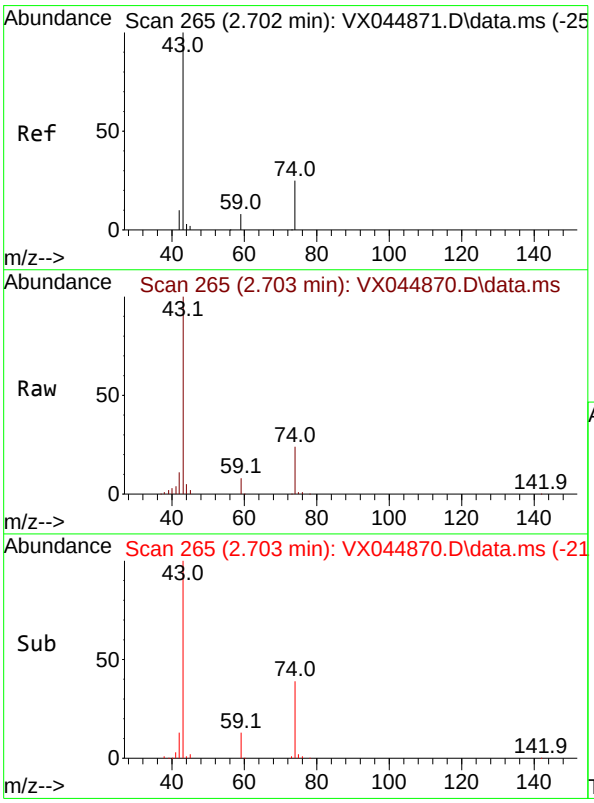
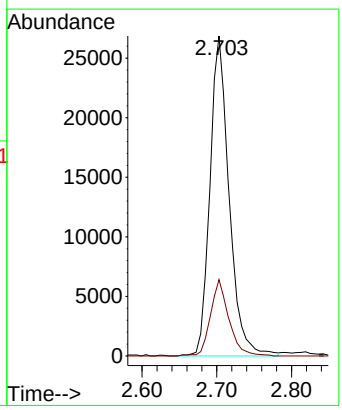
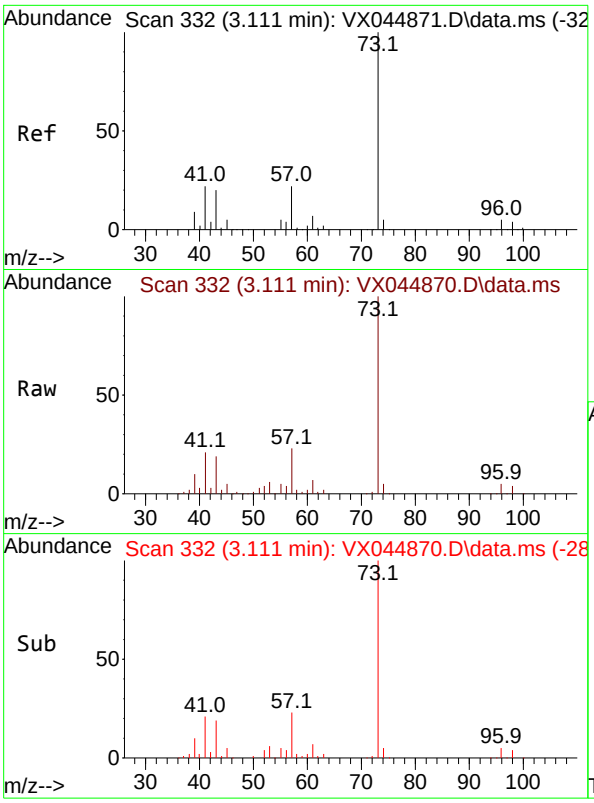


#18
Methyl Acetate
Concen: 19.943 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 47970

Ion	Ratio	Lower	Upper
43	100		
74	22.9	18.9	28.3

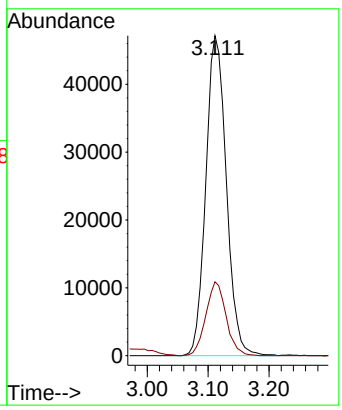




#19
Methyl tert-butyl Ether
Concen: 20.779 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 73 Resp: 11037

Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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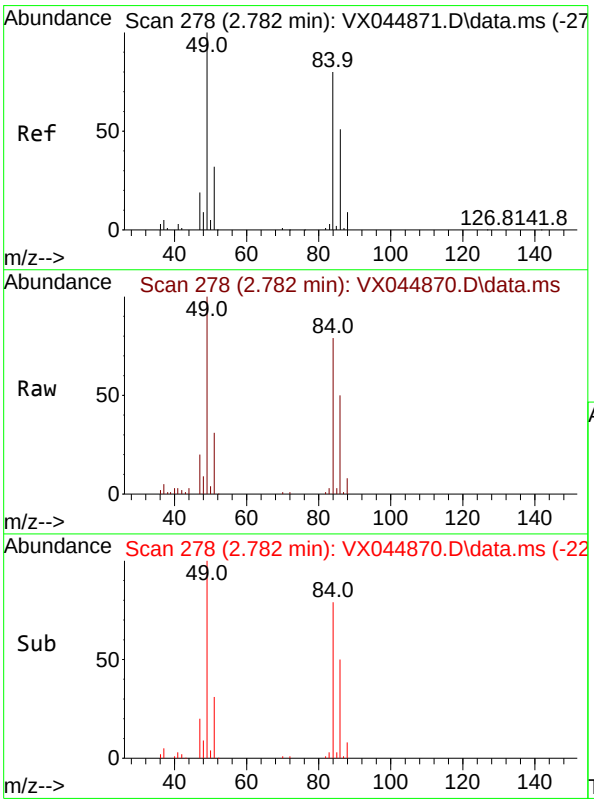
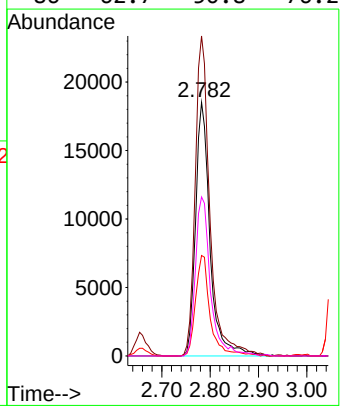
Supervised By :Mahesh Dadoda 02/11/2025

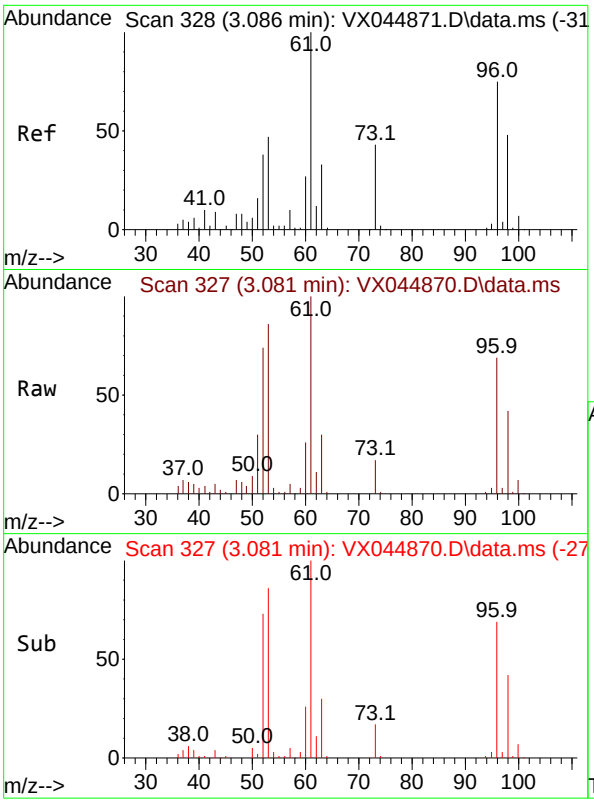


#20
Methylene Chloride
Concen: 20.562 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 84 Resp: 38390

Ion	Ratio	Lower	Upper
84	100		
49	126.2	100.1	150.1
51	39.6	31.7	47.5
86	62.7	50.8	76.2

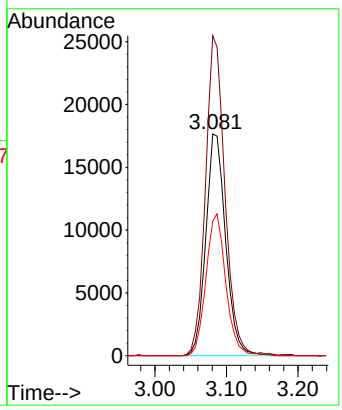




#21
trans-1,2-Dichloroethene
Concen: 20.730 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 96 Resp: 3406

Ion	Ratio	Lower	Upper
96	100		
61	144.3	106.0	159.0
98	60.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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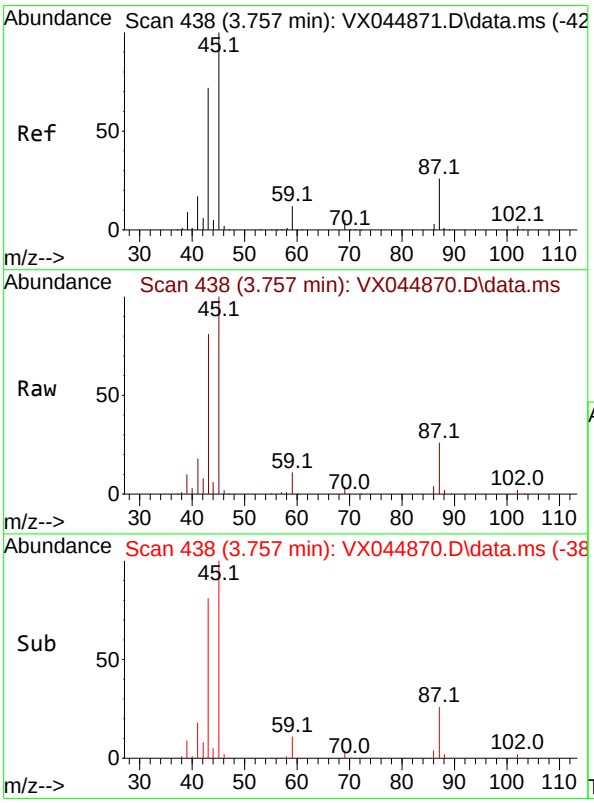
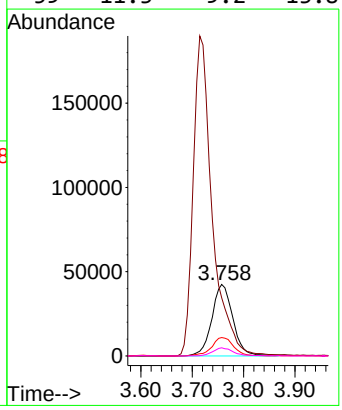
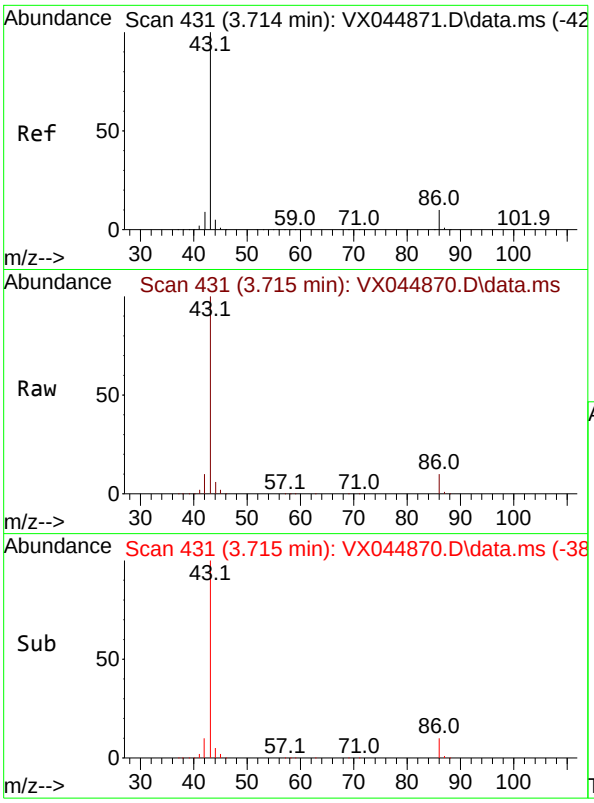


#22
Diisopropyl ether
Concen: 21.074 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 45 Resp: 120300

Ion	Ratio	Lower	Upper
45	100		
43	80.8	58.0	87.0
87	25.8	20.7	31.1
59	11.3	9.2	13.8





#23
Vinyl Acetate
Concen: 105.341 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 49023

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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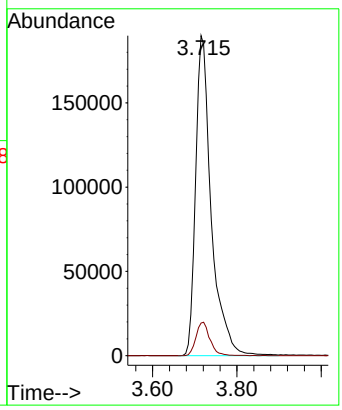
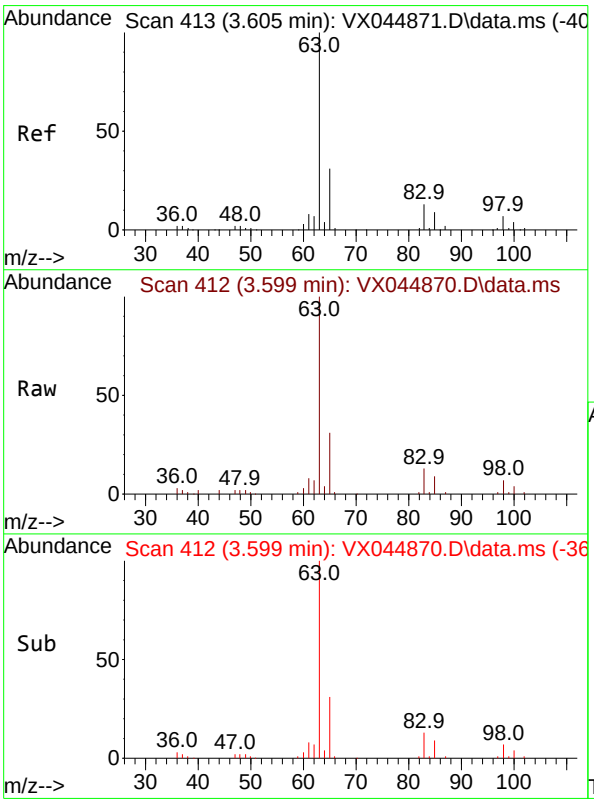
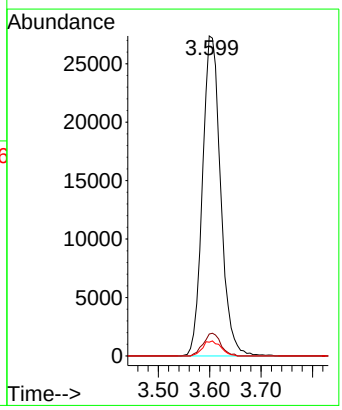


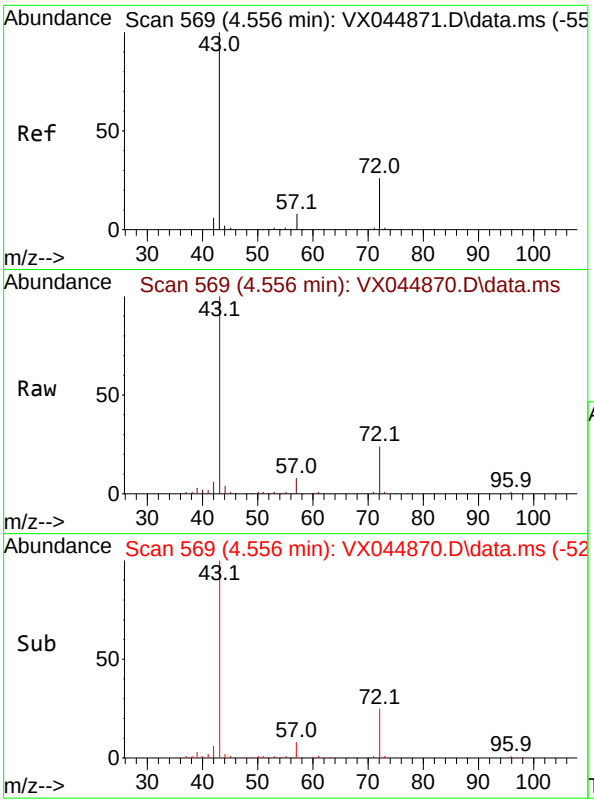


#24
1,1-Dichloroethane
Concen: 20.958 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 66942

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.9
100	4.3	2.1	6.5

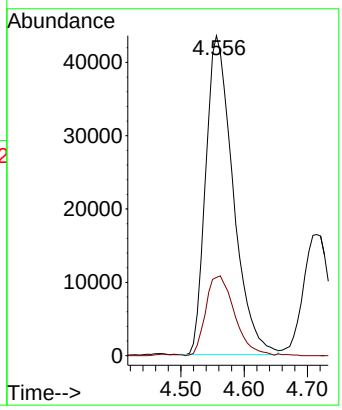




#25
2-Butanone
Concen: 105.417 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 13048

Ion	Ratio	Lower	Upper
43	100		
72	24.2	21.2	31.8



Instrument :
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ClientSampleId :
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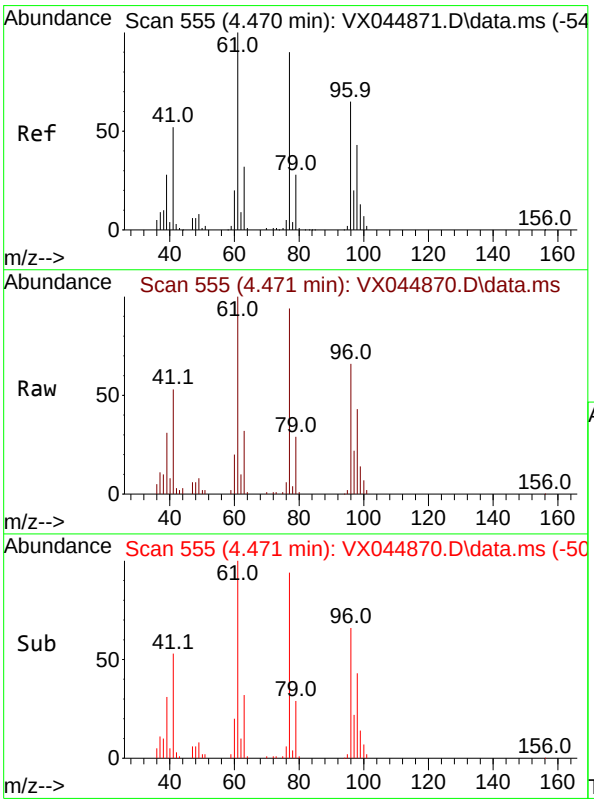
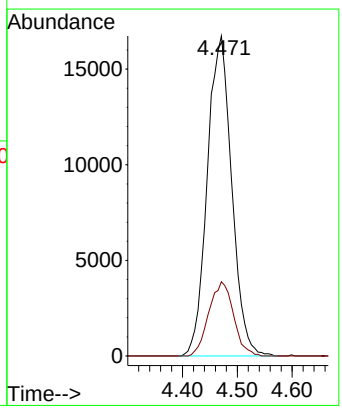
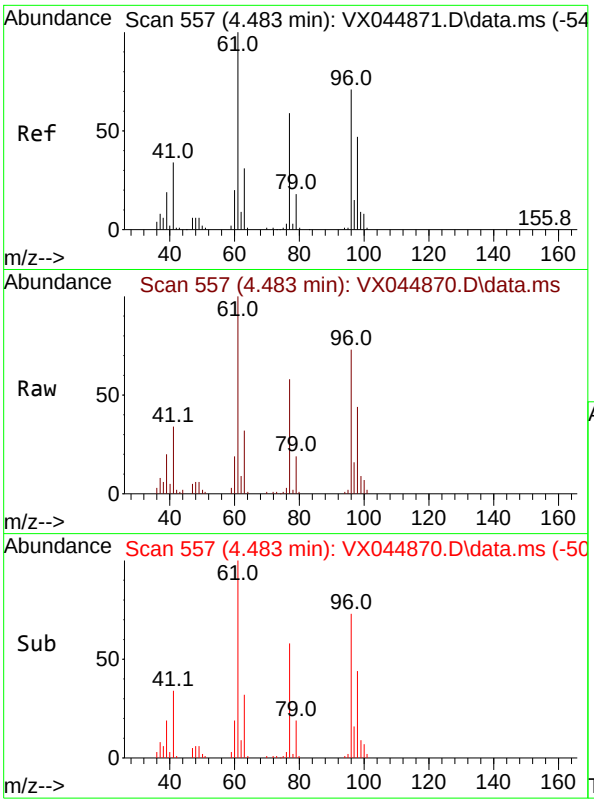


#26
2,2-Dichloropropane
Concen: 20.451 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 77 Resp: 51803

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.8	35.3

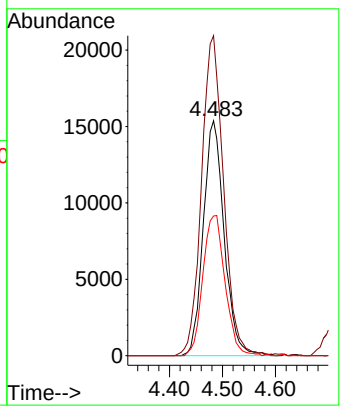




#27
cis-1,2-Dichloroethene
Concen: 21.328 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 96 Resp: 4209

Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	294.0
98	63.4	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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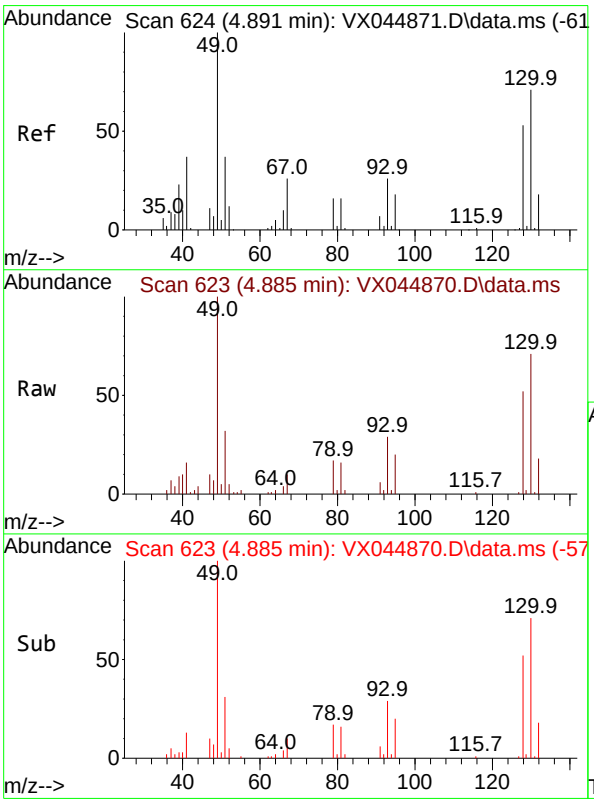
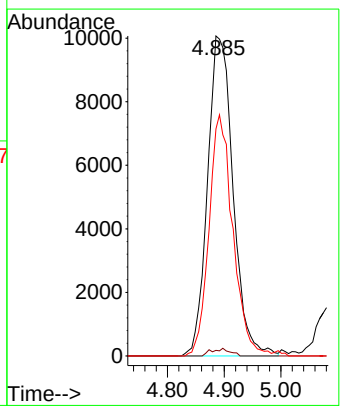
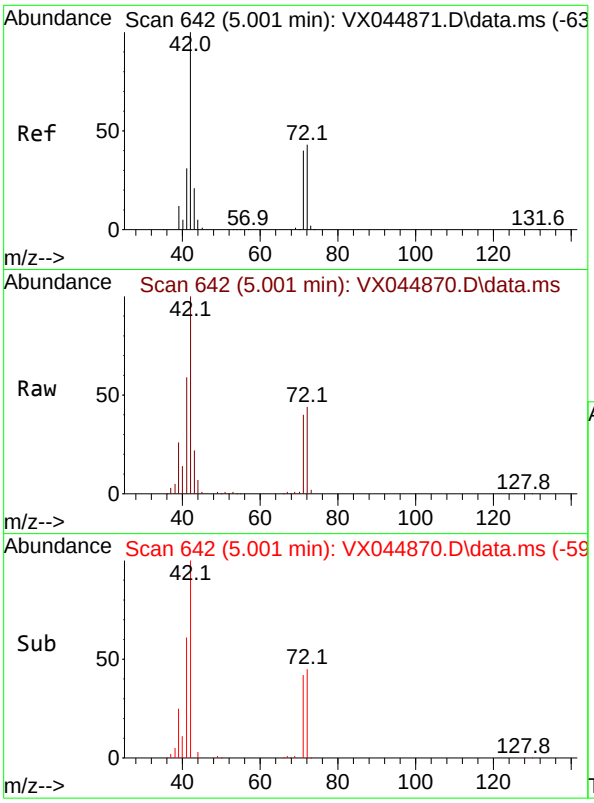


#28
Bromochloromethane
Concen: 20.504 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 49 Resp: 31474

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	70.3	56.7	85.1

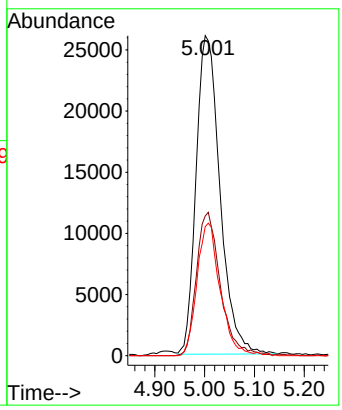




#29
Tetrahydrofuran
Concen: 105.700 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 42 Resp: 8687

Ion	Ratio	Lower	Upper
42	100		
72	44.9	35.0	52.4
71	40.4	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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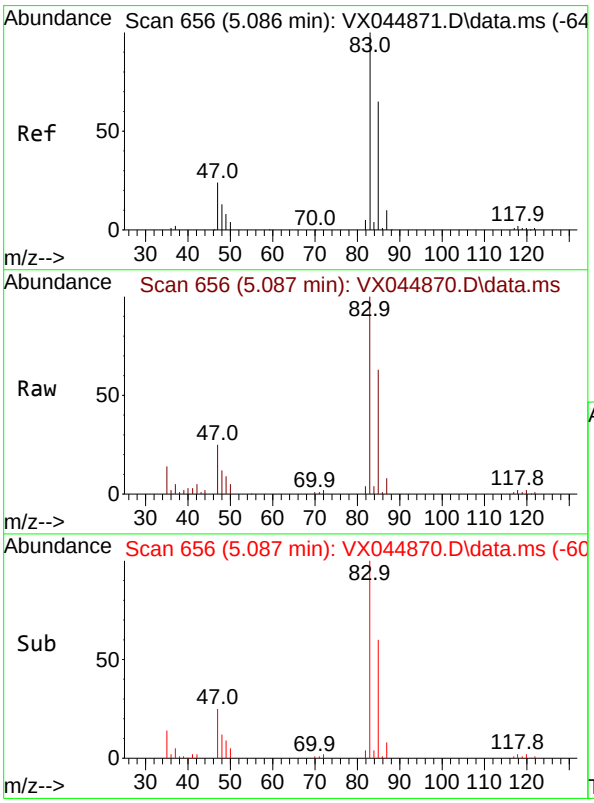
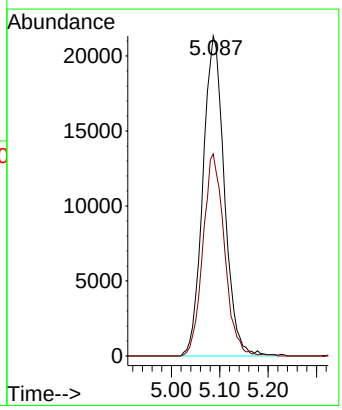
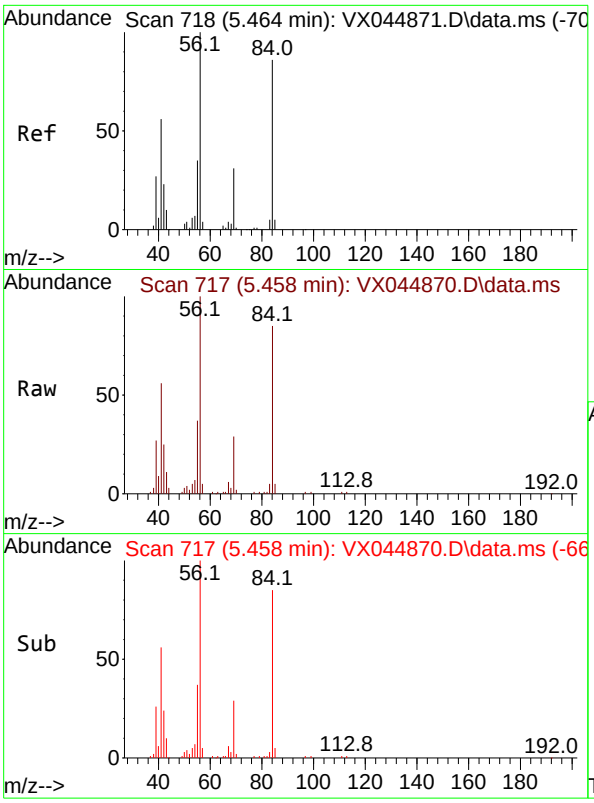


#30
Chloroform
Concen: 21.217 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 65721

Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.1	78.1

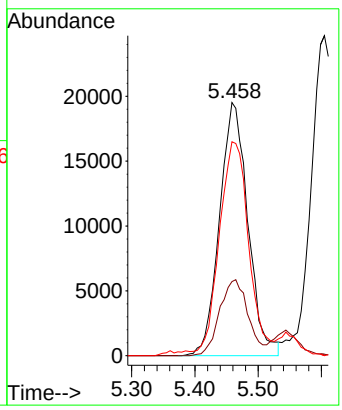




#31
Cyclohexane
Concen: 20.653 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 56 Resp: 6081

Ion	Ratio	Lower	Upper
56	100		
69	29.2	24.4	36.6
84	83.1	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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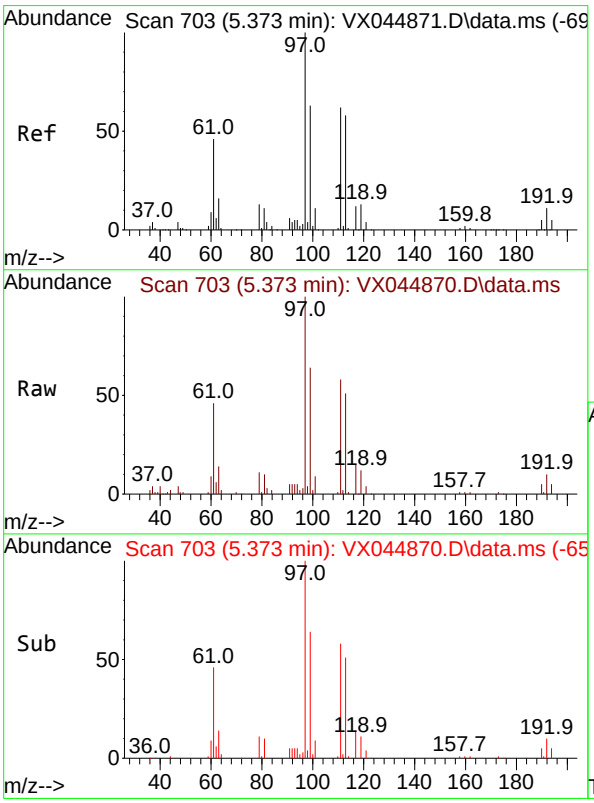
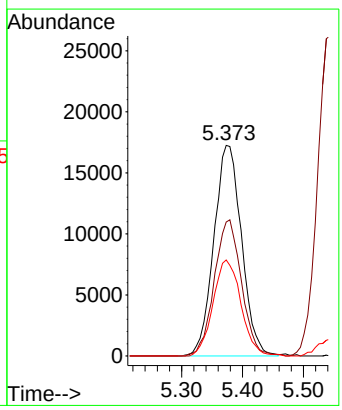
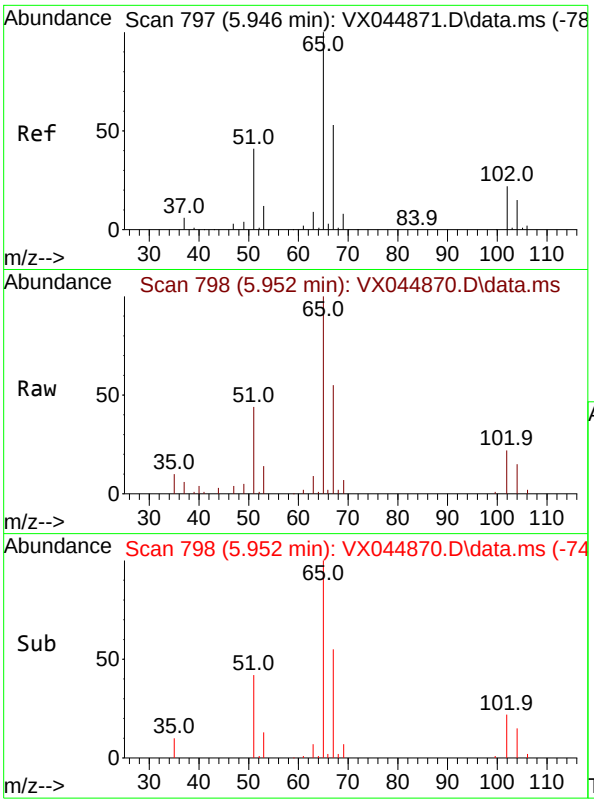


#32
1,1,1-Trichloroethane
Concen: 20.724 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 97 Resp: 54450

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.0	76.6
61	45.9	36.6	55.0

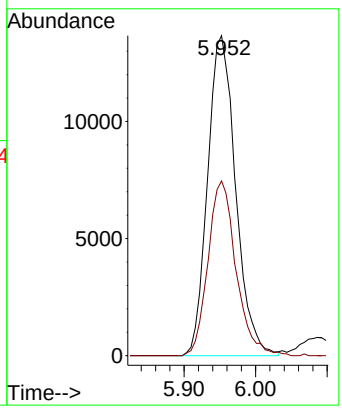




#33
1,2-Dichloroethane-d4
Concen: 19.616 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 65 Resp: 3719

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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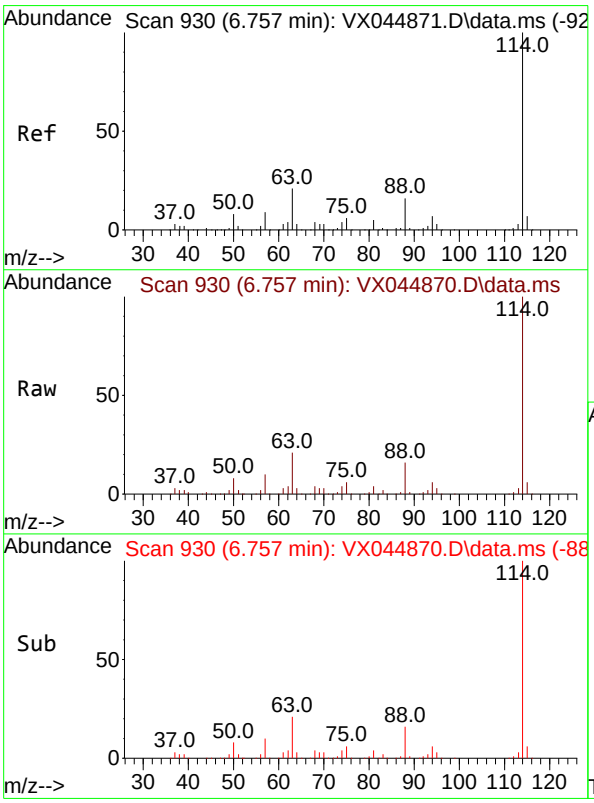
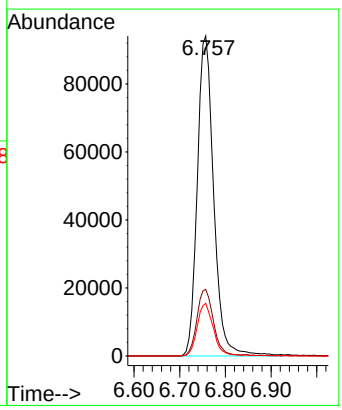
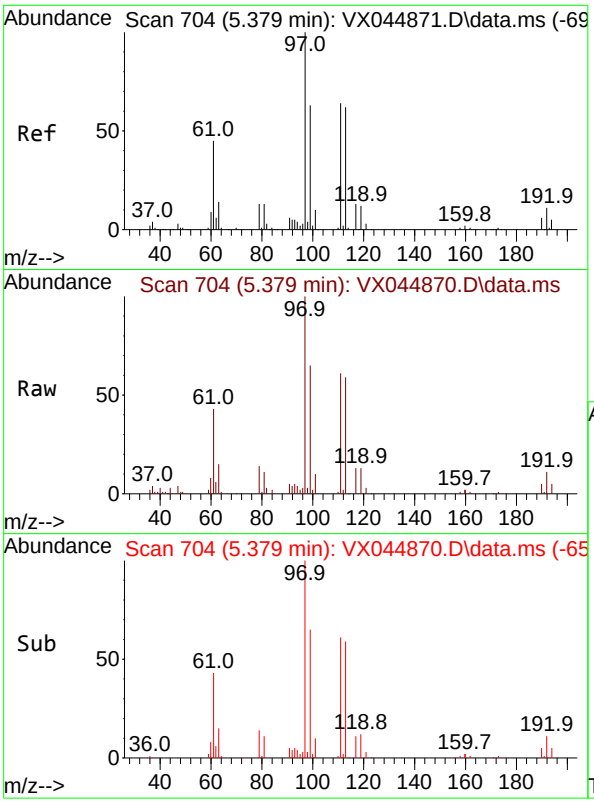


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:114 Resp: 234445

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.4
88	16.4	0.0	31.4

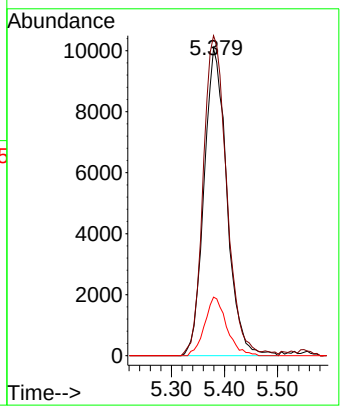




#35
Dibromofluoromethane
Concen: 19.793 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:113 Resp: 3017

Ion	Ratio	Lower	Upper
113	100		
111	106.3	83.5	125.3
192	18.3	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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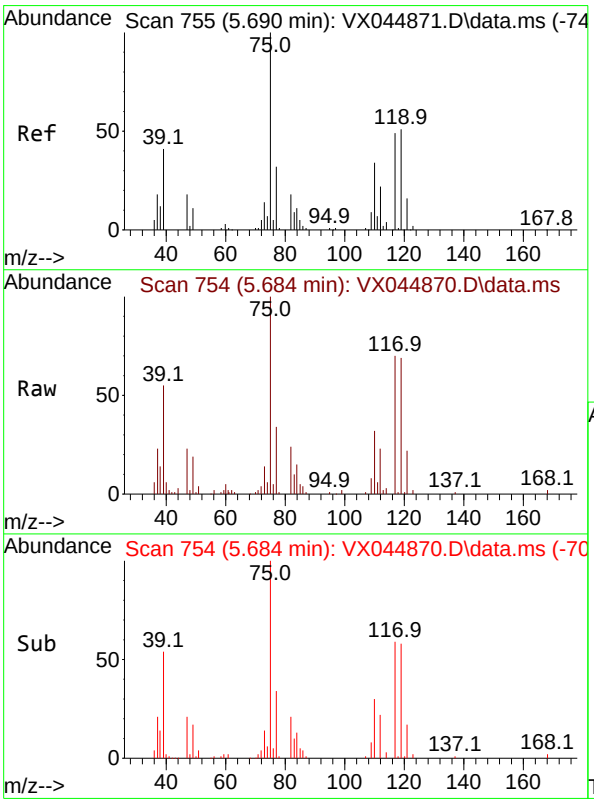
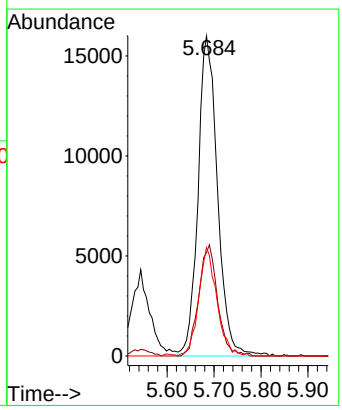
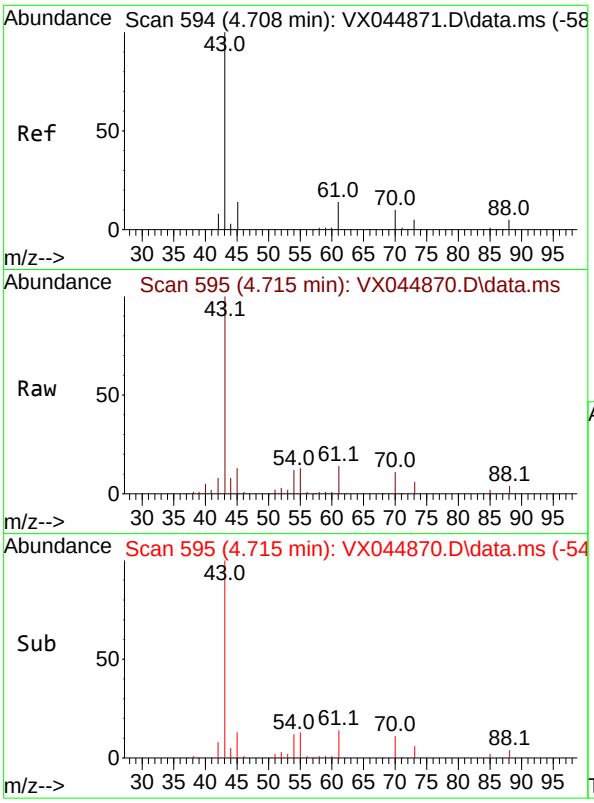


#36
1,1-Dichloropropene
Concen: 20.913 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 45991

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.2	51.6
77	31.7	24.6	37.0

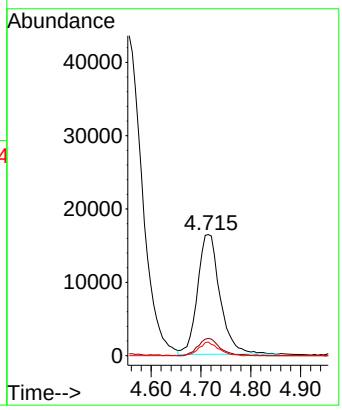




#37
Ethyl Acetate
Concen: 20.949 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 5124

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.4
70	9.9	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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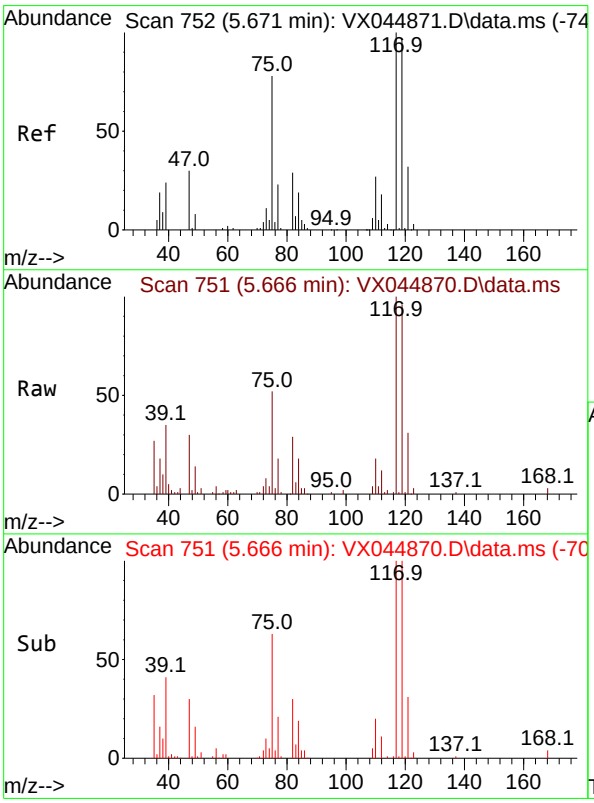
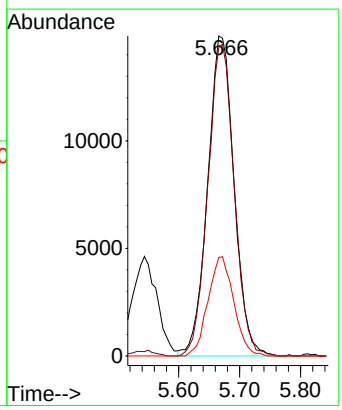
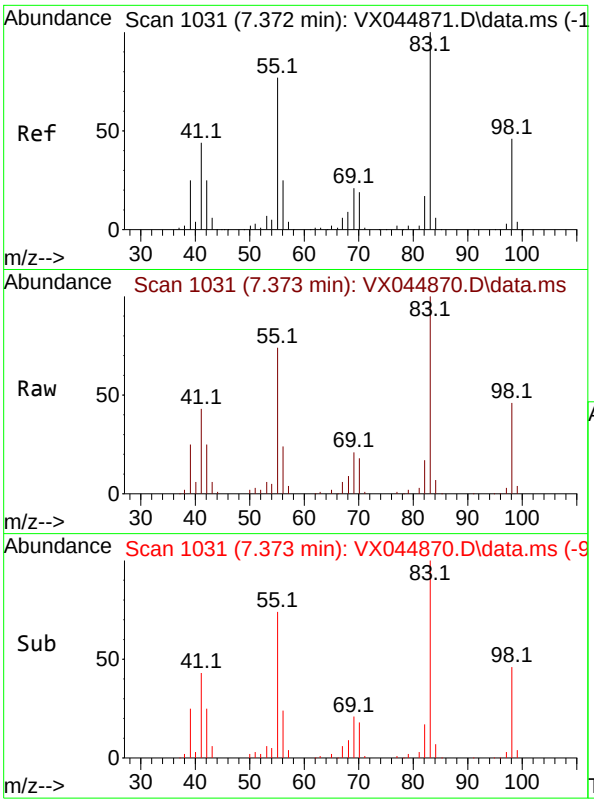


#38
Carbon Tetrachloride
Concen: 20.790 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 44802

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.5	116.3
121	30.8	25.6	38.4

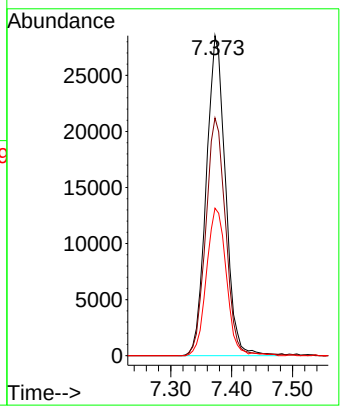




#39
Methylcyclohexane
Concen: 21.985 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 6250

Ion	Ratio	Lower	Upper
83	100		
55	74.3	61.3	91.9
98	46.1	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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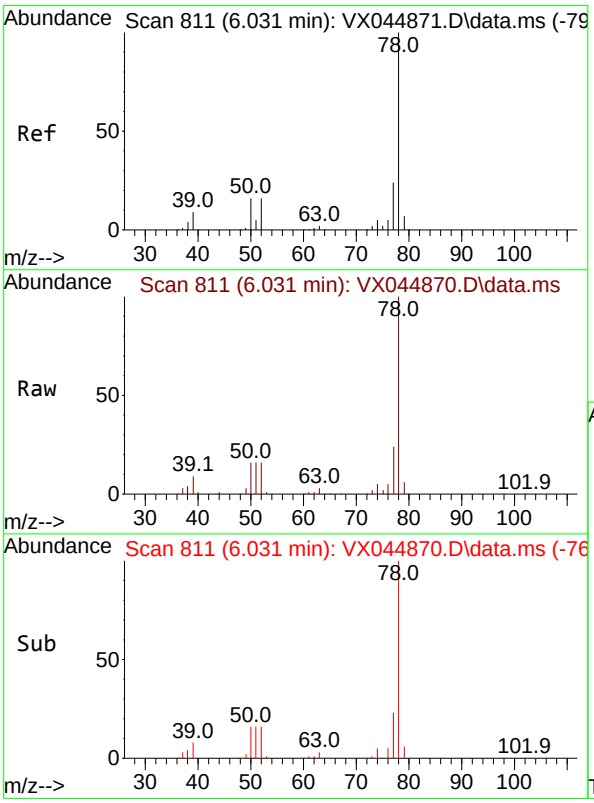
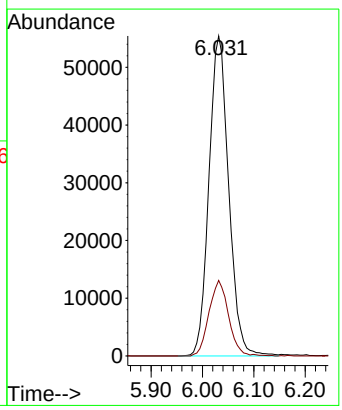
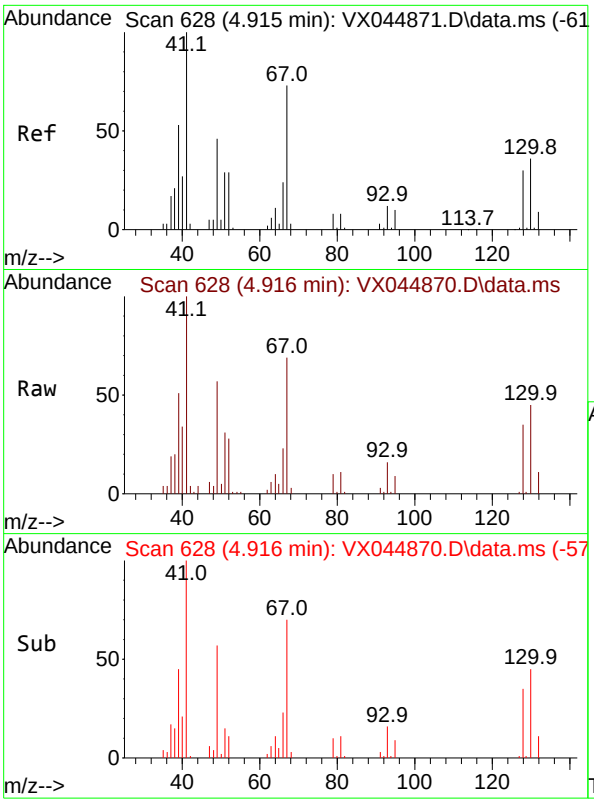


#40
Benzene
Concen: 21.540 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 78 Resp: 147912

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6

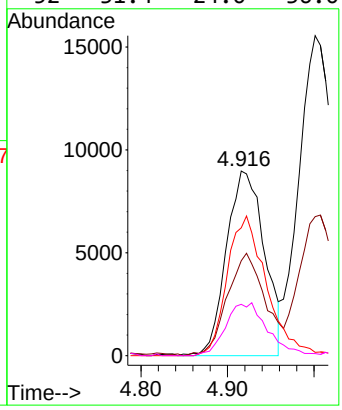




#41
Methacrylonitrile
Concen: 20.887 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 2734

Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.1	64.7
67	78.6	57.0	85.6
52	31.4	24.0	36.0



Instrument :
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ClientSampleId :
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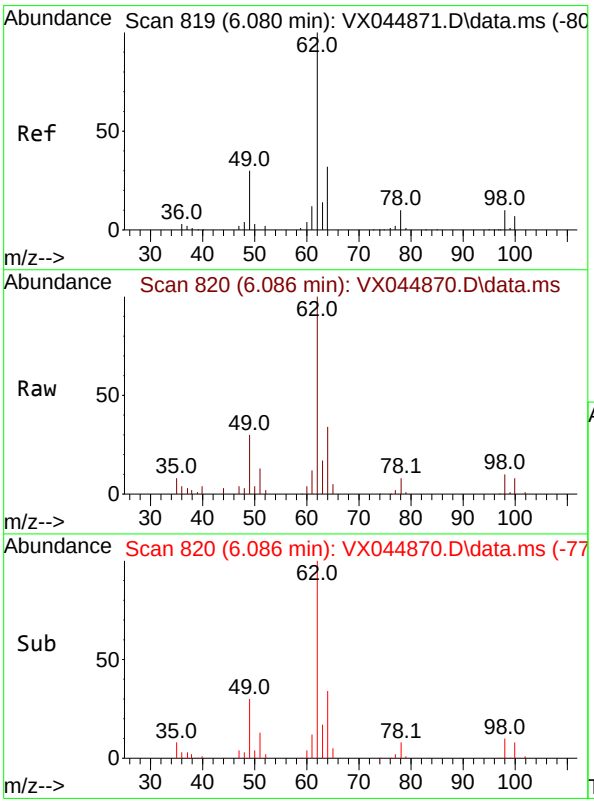
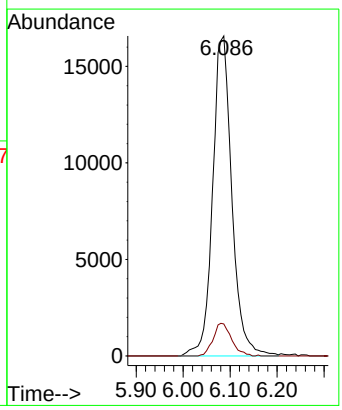
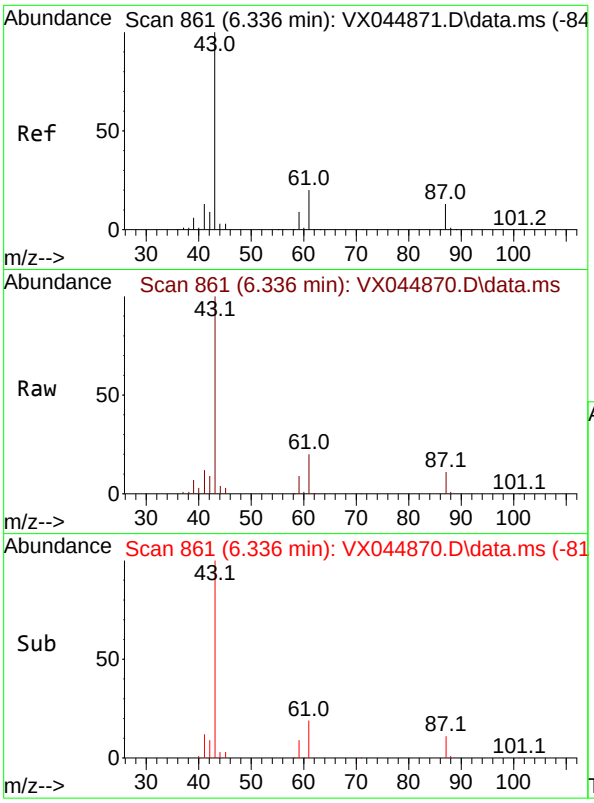


#42
1,2-Dichloroethane
Concen: 21.519 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 47095

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4

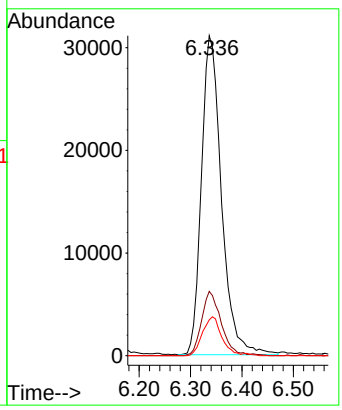




#43
Isopropyl Acetate
Concen: 21.343 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 8430

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.8	23.8
87	11.6	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
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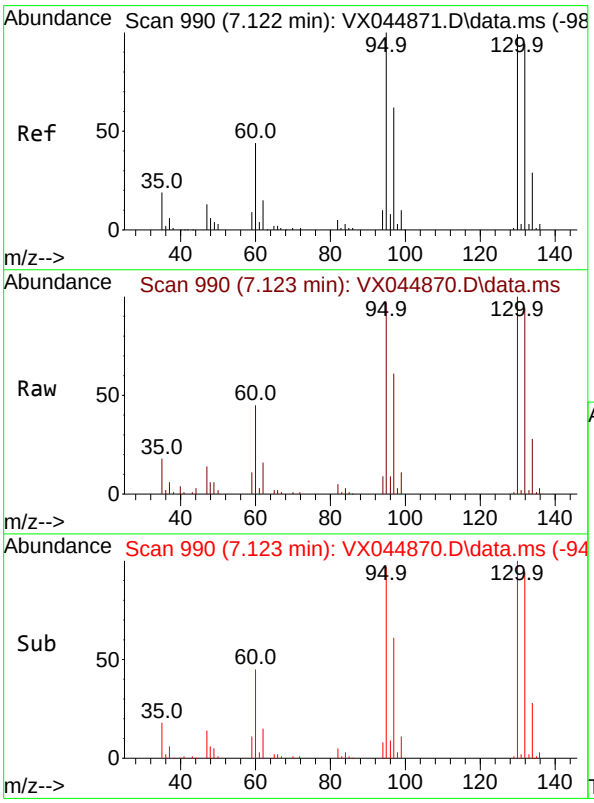
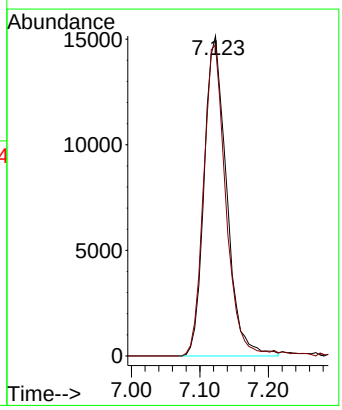
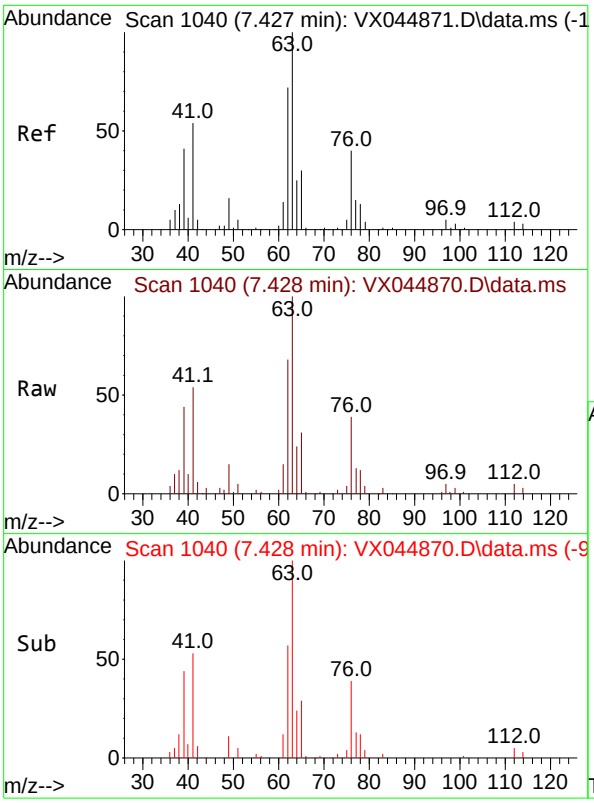


#44
Trichloroethene
Concen: 21.910 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:130 Resp: 34390

Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	202.4

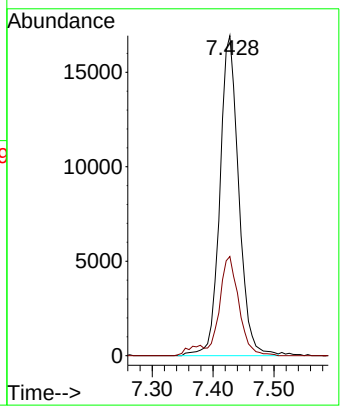




#45
1,2-Dichloropropane
Concen: 21.371 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 3651

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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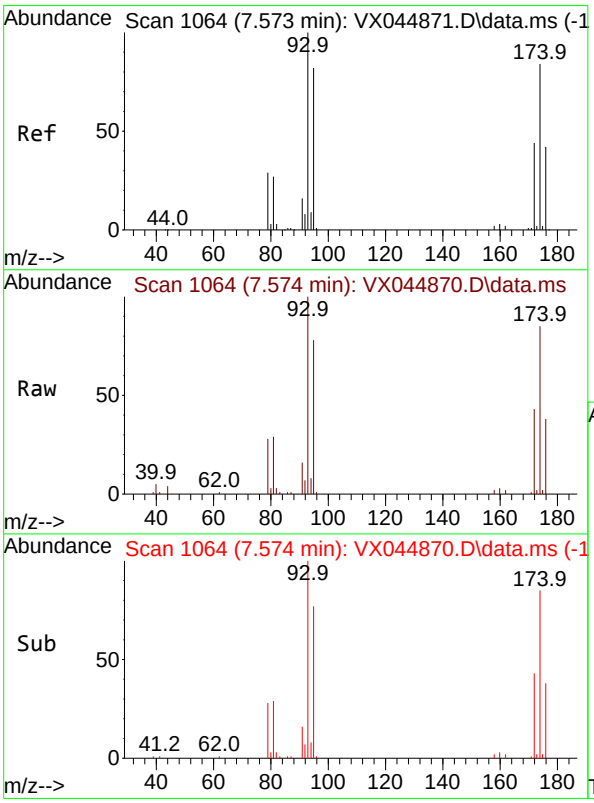
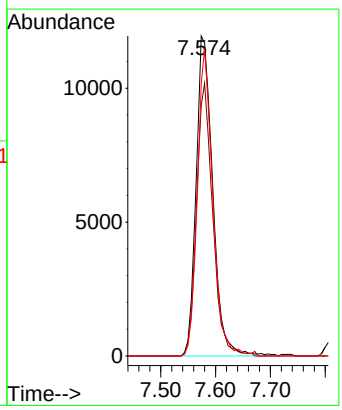
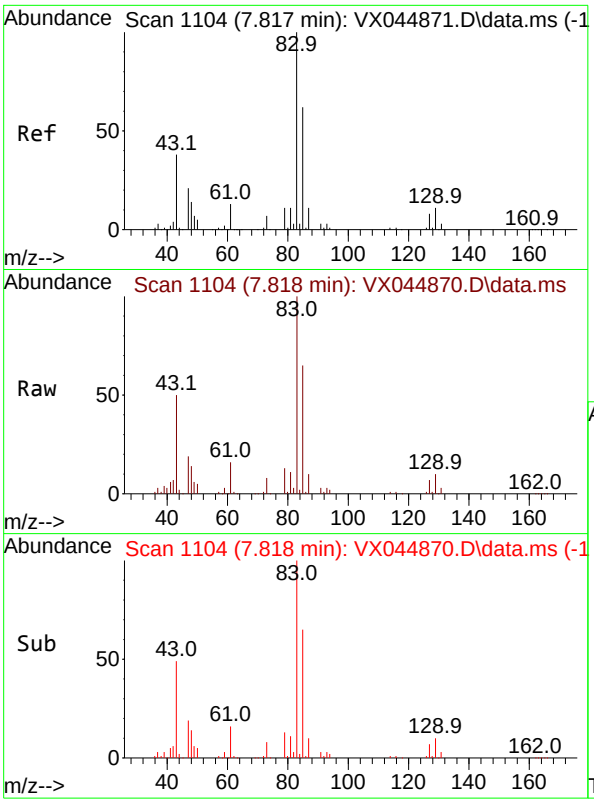


#46
Dibromomethane
Concen: 21.354 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 93 Resp: 25300

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.2	99.4
174	88.6	69.9	104.9

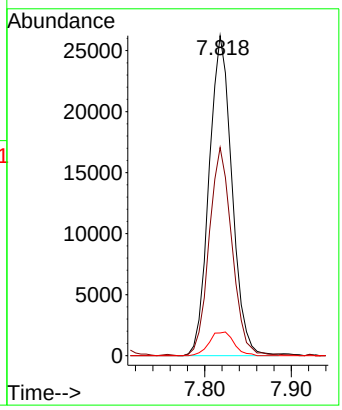




#47
Bromodichloromethane
Concen: 21.012 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 4820

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.0	75.0
127	7.1	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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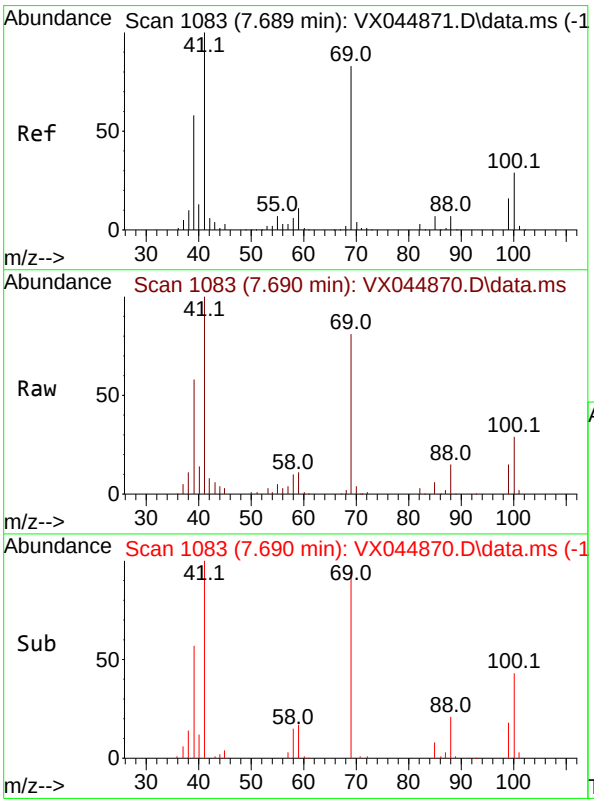
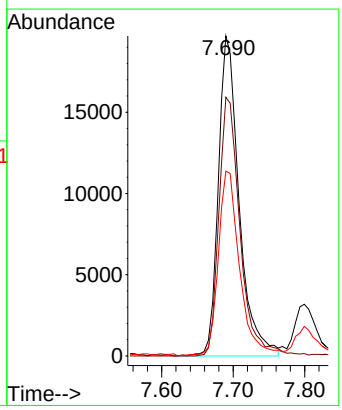
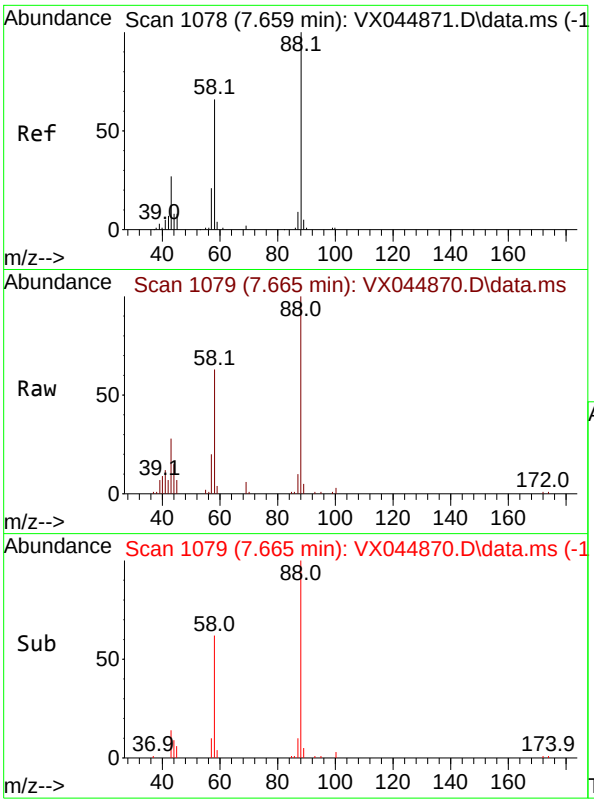


#48
Methyl methacrylate
Concen: 21.341 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 39747

Ion	Ratio	Lower	Upper
41	100		
69	82.5	65.8	98.8
39	58.2	46.4	69.6





#49
1,4-Dioxane
Concen: 429.262 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 88 Resp: 1715

Ion	Ratio	Lower	Upper
88	100		
43	34.3	26.6	39.8
58	69.3	55.9	83.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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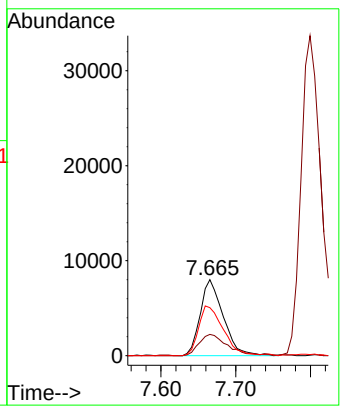
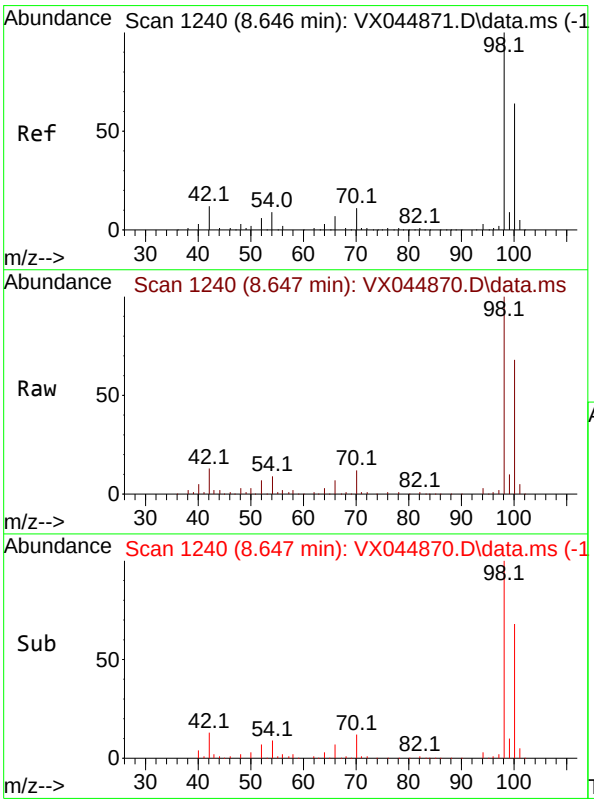
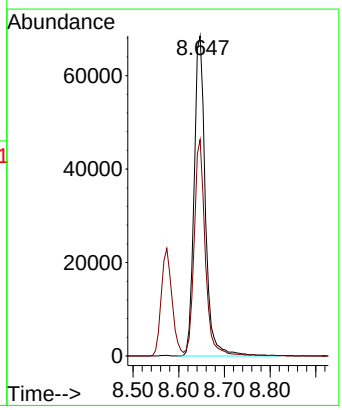


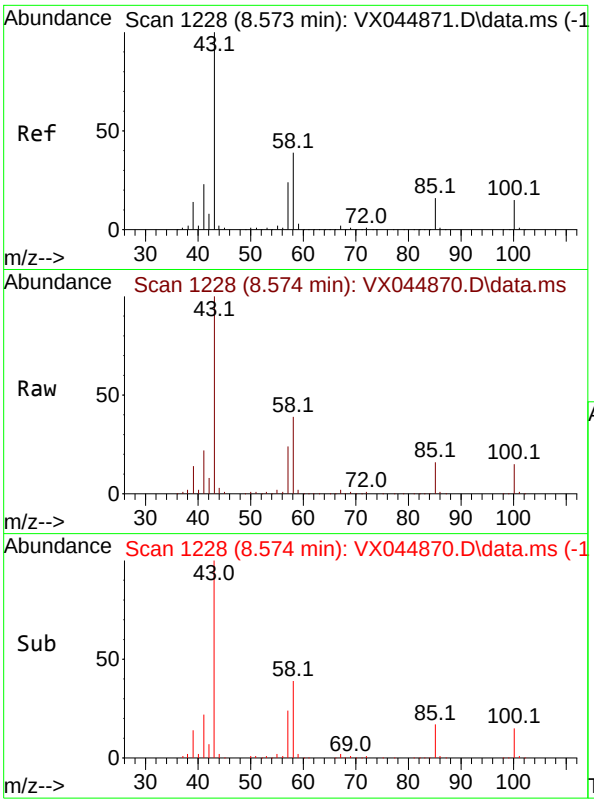


#50
Toluene-d8
Concen: 20.321 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 98 Resp: 117127

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.7	79.1

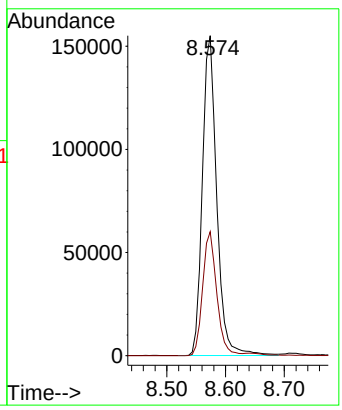




#51
4-Methyl-2-Pentanone
Concen: 109.684 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 26339

Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.8	46.2



Instrument :
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ClientSampleId :
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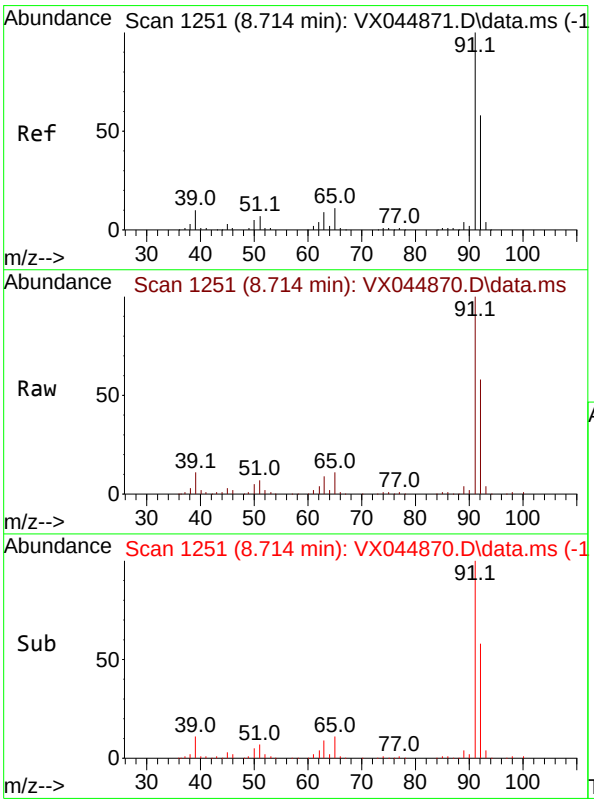
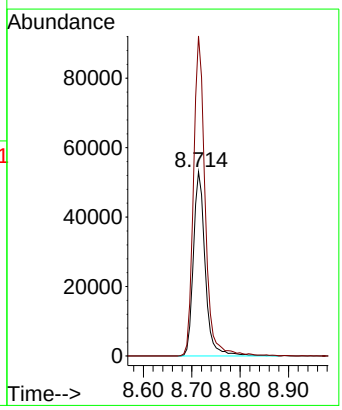
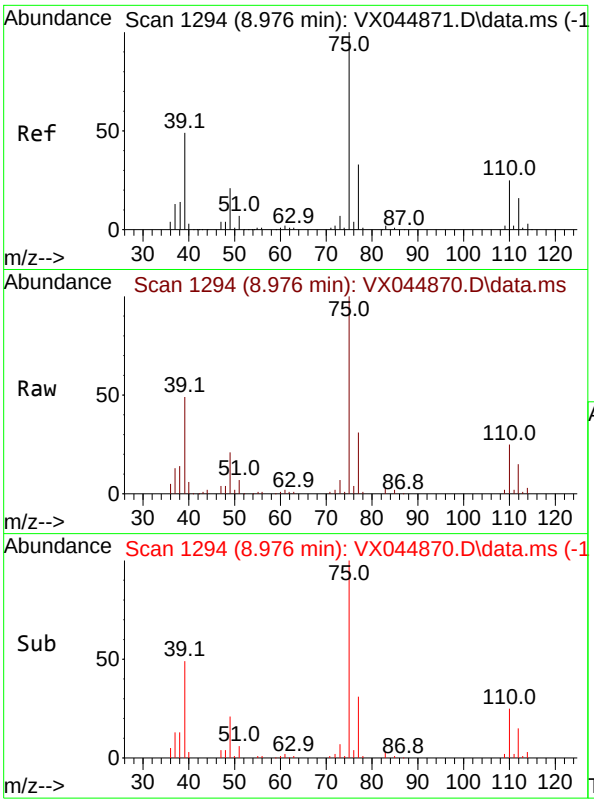


#52
Toluene
Concen: 21.940 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 92 Resp: 89726

Ion	Ratio	Lower	Upper
92	100		
91	171.0	137.4	206.2

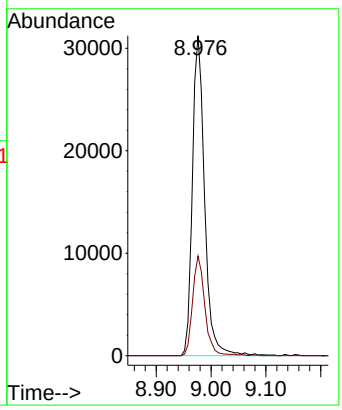




#53
t-1,3-Dichloropropene
Concen: 20.940 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 4861

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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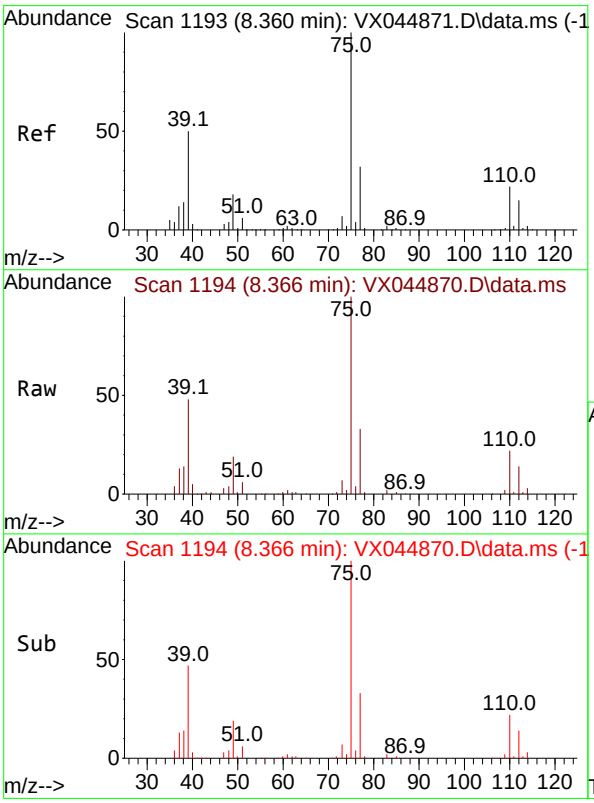
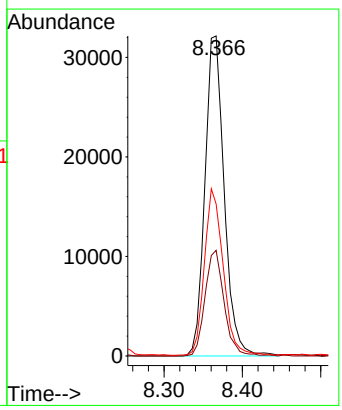
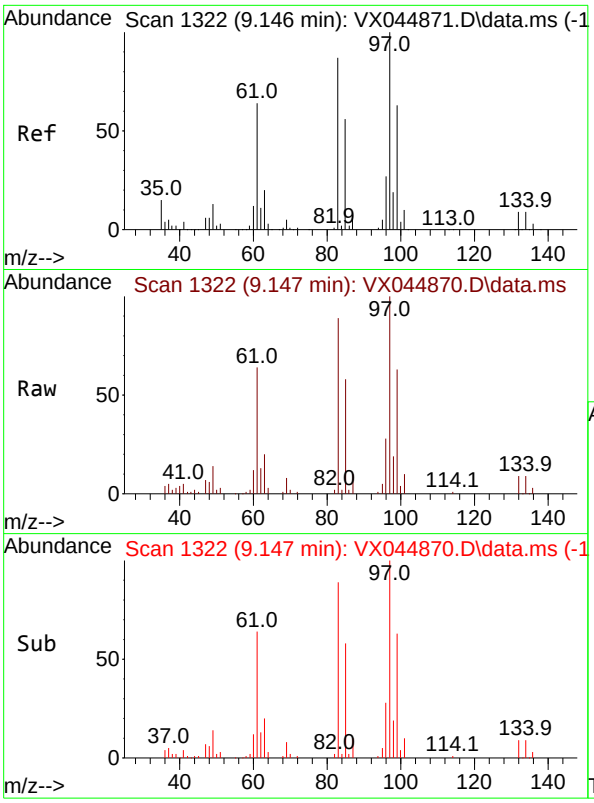


#54
cis-1,3-Dichloropropene
Concen: 21.259 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 55026

Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.3	37.9
39	47.3	40.0	60.0

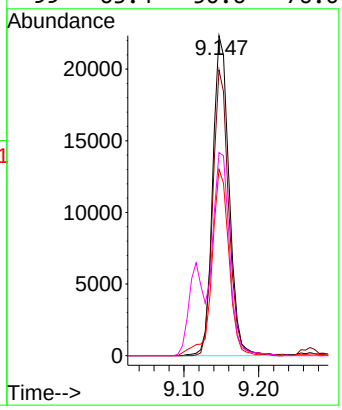




#55
1,1,2-Trichloroethane
Concen: 21.582 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 97 Resp: 3393

Ion	Ratio	Lower	Upper
97	100		
83	89.3	69.8	104.6
85	58.3	44.8	67.2
99	63.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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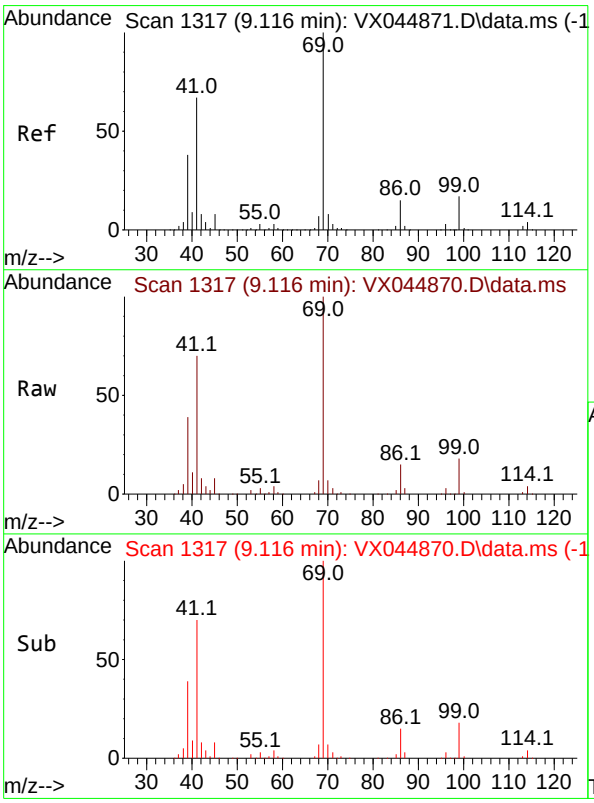
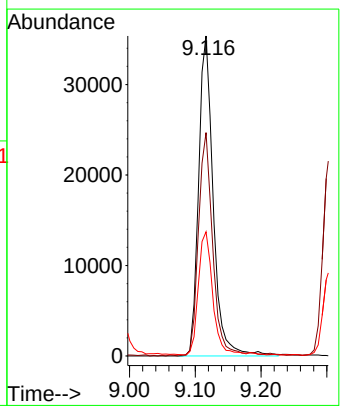
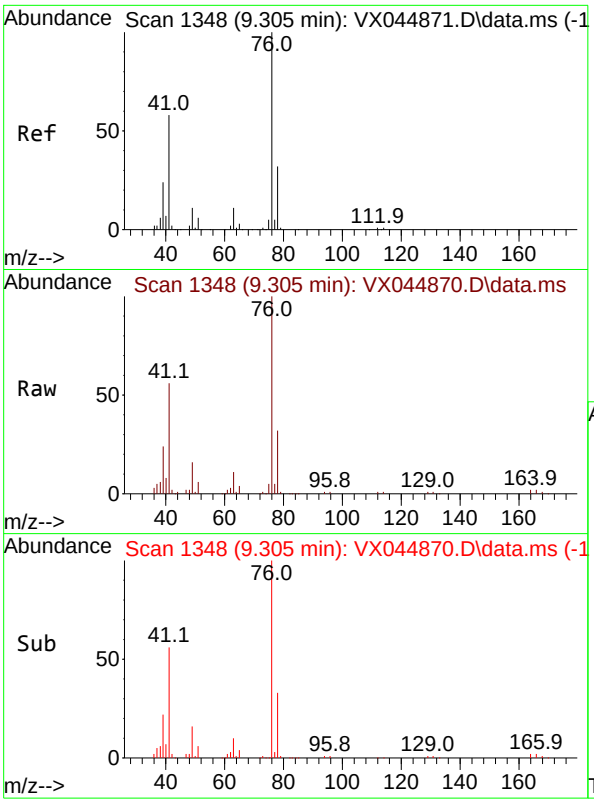


#56
Ethyl methacrylate
Concen: 21.533 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 69 Resp: 54674

Ion	Ratio	Lower	Upper
69	100		
41	68.4	55.2	82.8
39	37.4	30.8	46.2

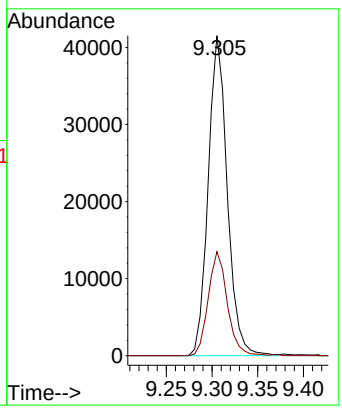




#57
1,3-Dichloropropane
Concen: 21.841 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 76 Resp: 6007

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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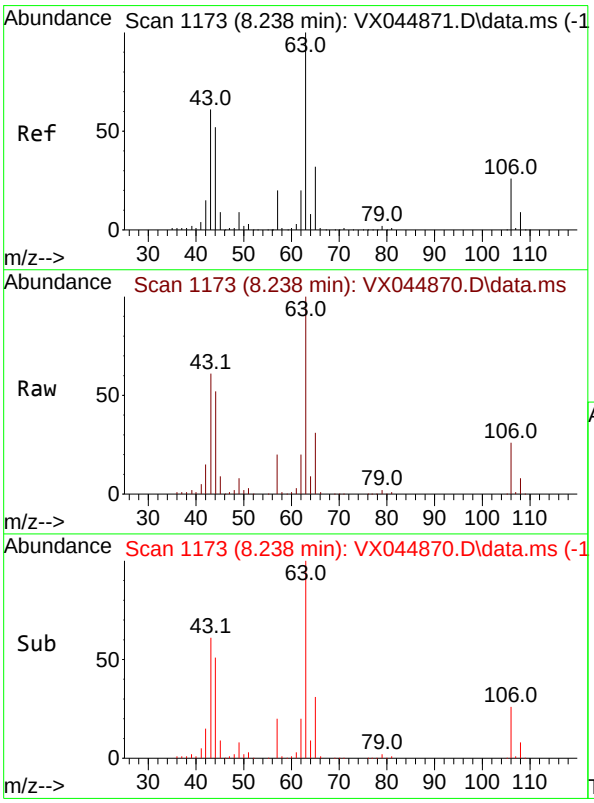
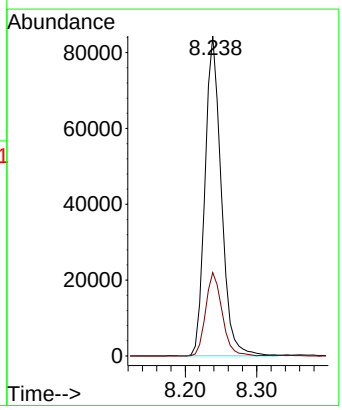
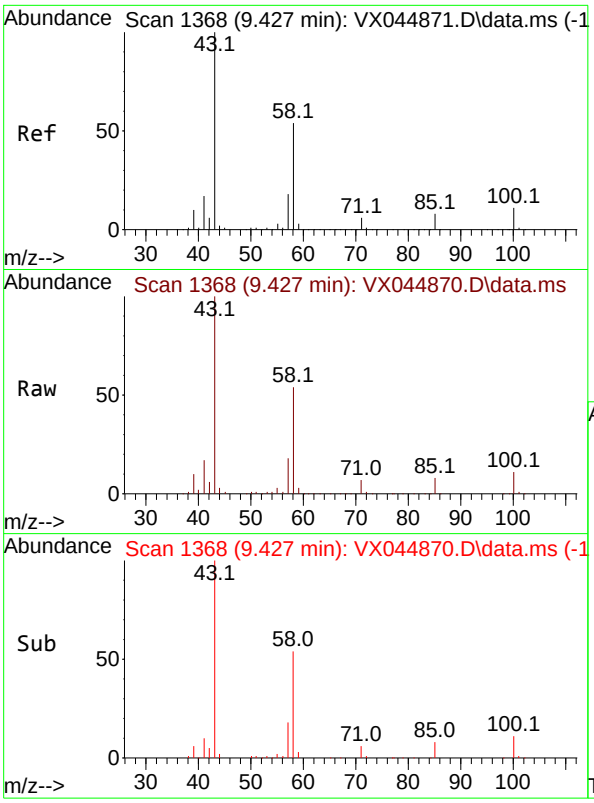


#58
2-Chloroethyl Vinyl ether
Concen: 106.736 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 133072

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9





#59
2-Hexanone
Concen: 110.072 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 19044

Ion	Ratio	Lower	Upper
43	100		
58	53.5	27.5	82.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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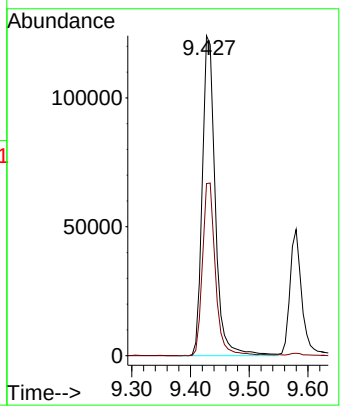
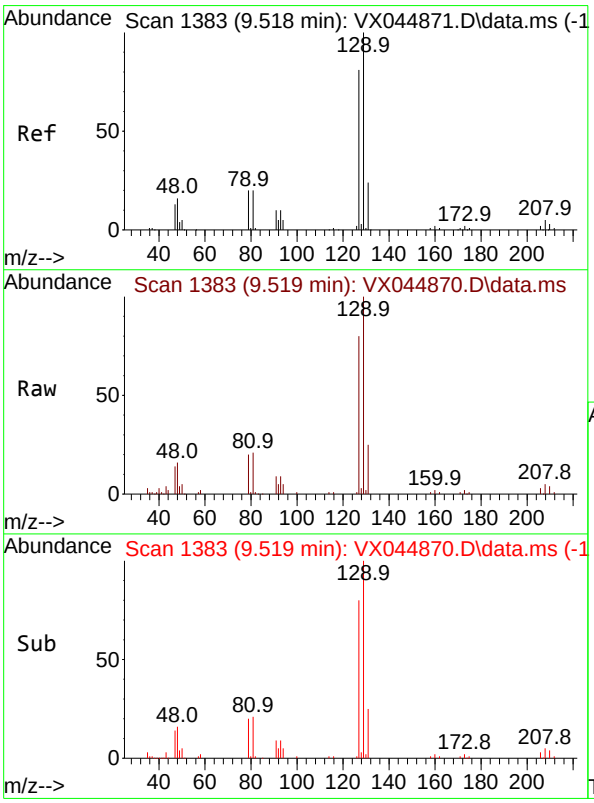
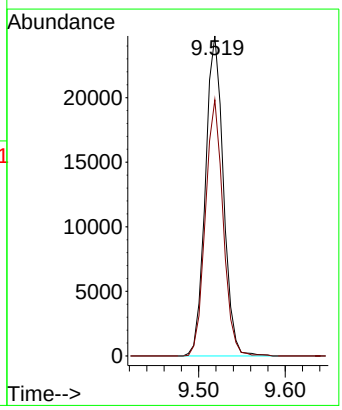


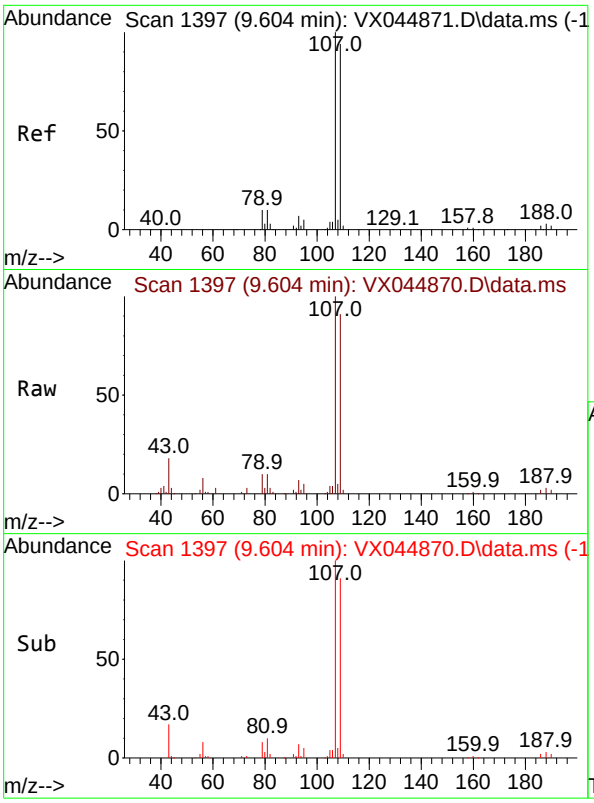


#60
Dibromochloromethane
Concen: 21.237 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:129 Resp: 35706

Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.1	117.3





#61
1,2-Dibromoethane
Concen: 21.628 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:107 Resp: 3446

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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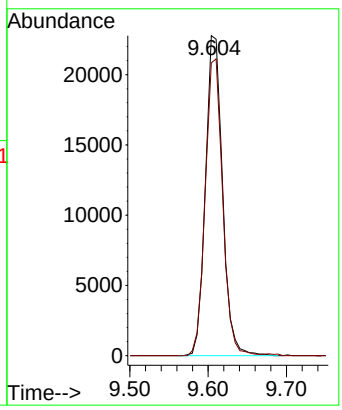
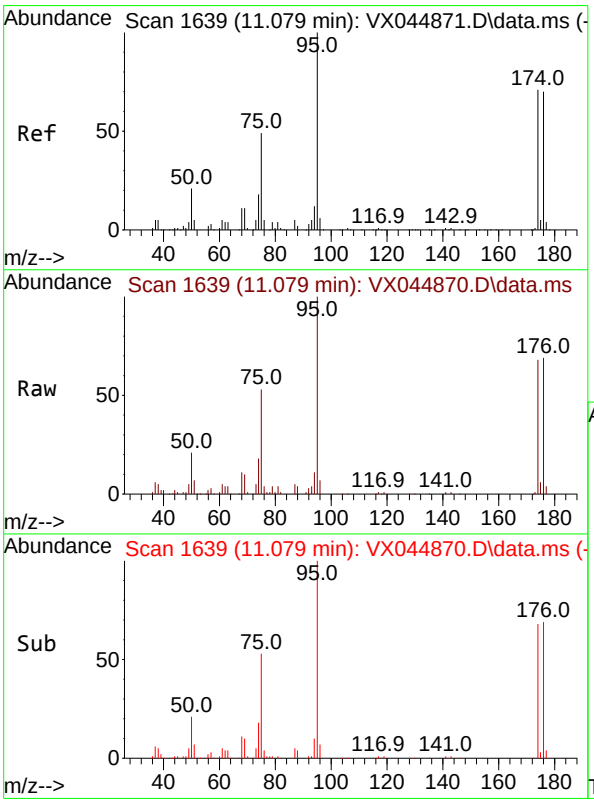
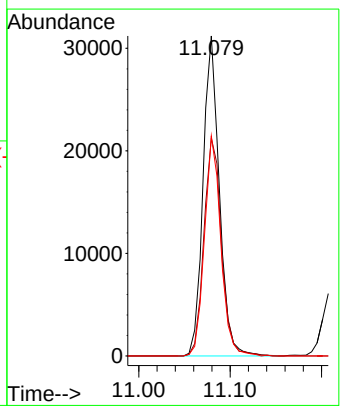


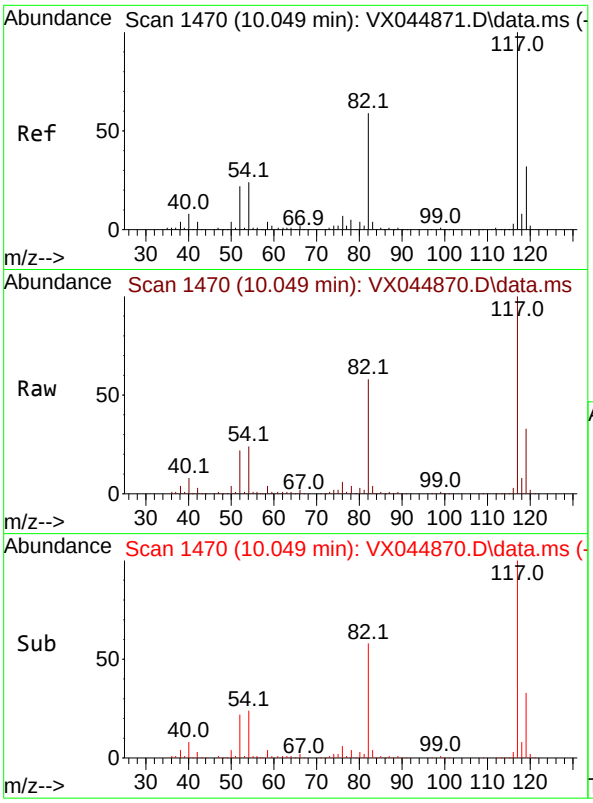


#62
4-Bromofluorobenzene
Concen: 19.800 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 95 Resp: 38475

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	142.6
176	69.0	0.0	141.6

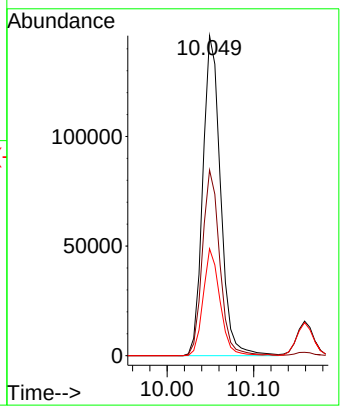




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 20766

Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.5	71.3
119	33.4	25.4	38.0



Instrument :
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ClientSampleId :
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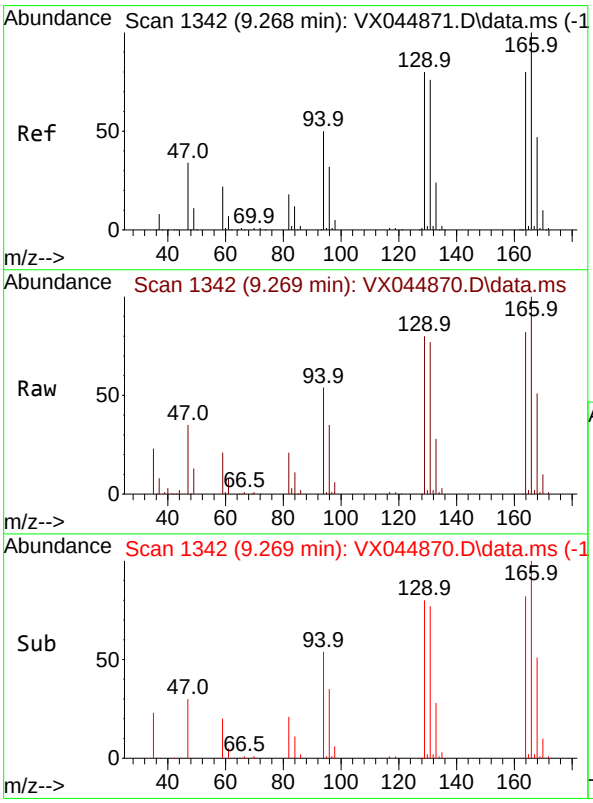
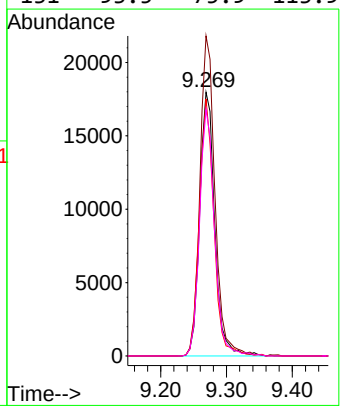
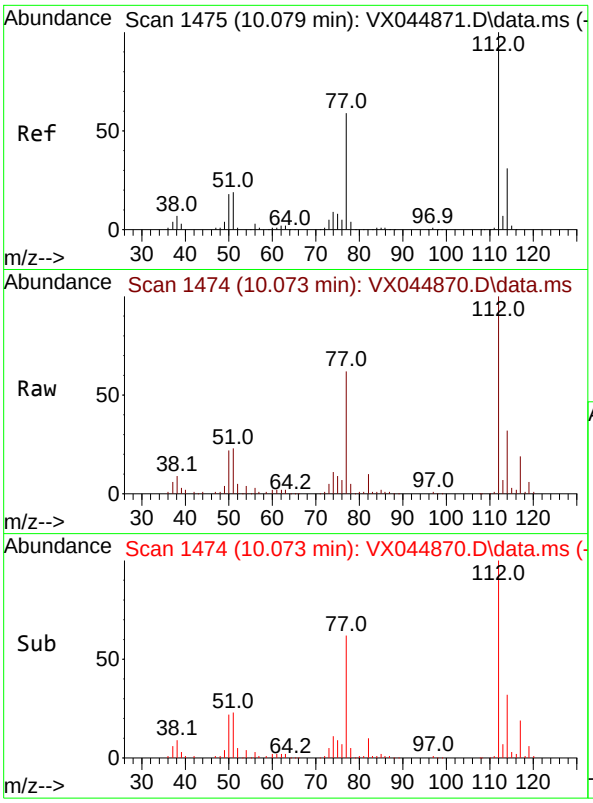


#64
Tetrachloroethene
Concen: 21.776 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:164 Resp: 28519

Ion	Ratio	Lower	Upper
164	100		
166	121.4	100.4	150.6
129	97.6	79.9	119.9
131	93.5	75.9	113.9

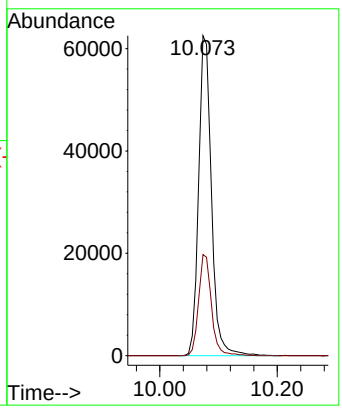




#65
Chlorobenzene
Concen: 21.230 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:112 Resp: 9469

Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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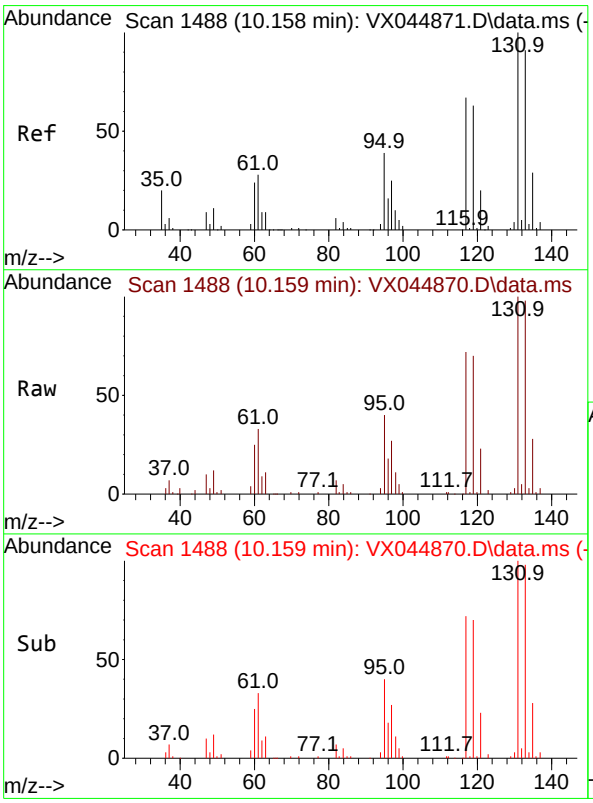
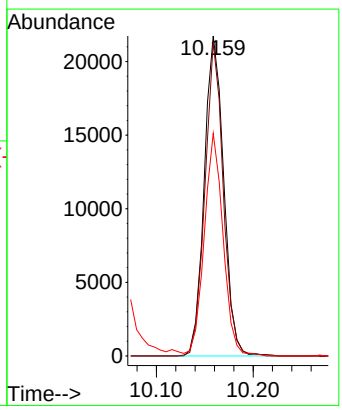
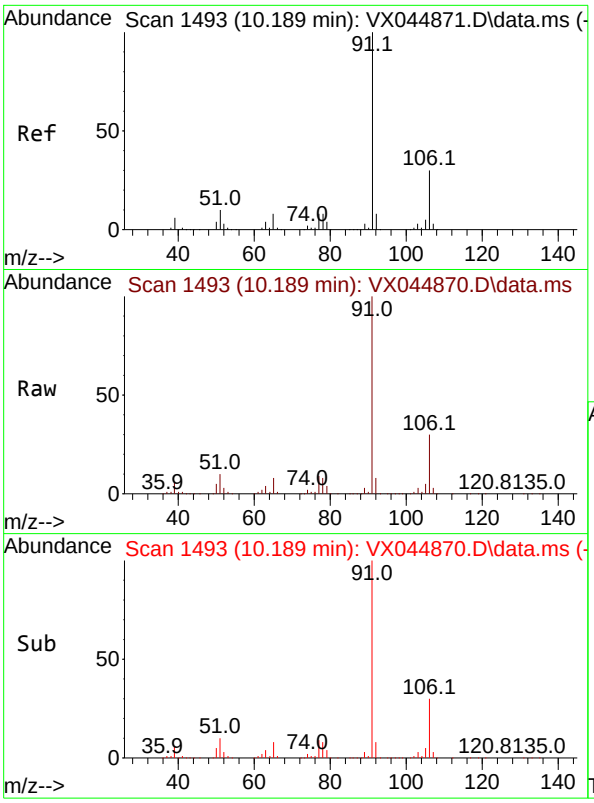


#66
1,1,1,2-Tetrachloroethane
Concen: 21.136 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:131 Resp: 30344

Ion	Ratio	Lower	Upper
131	100		
133	92.9	47.1	141.3
119	67.4	33.6	100.6

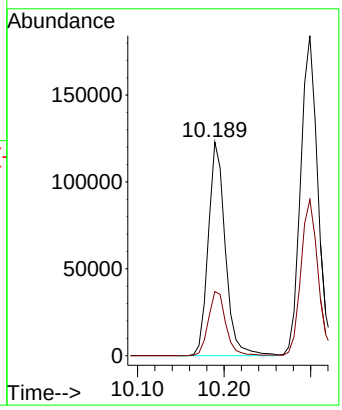




#67
Ethyl Benzene
Concen: 21.327 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 16786

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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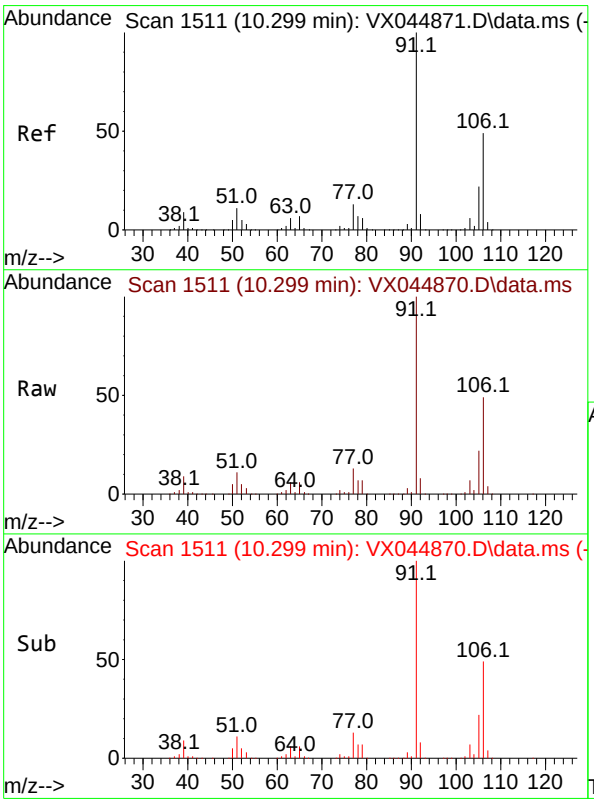
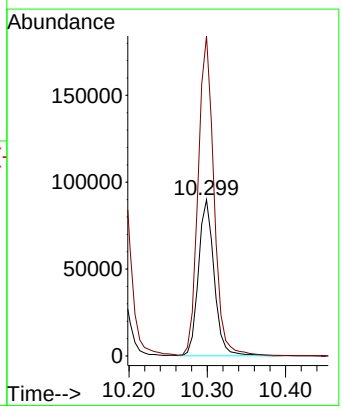
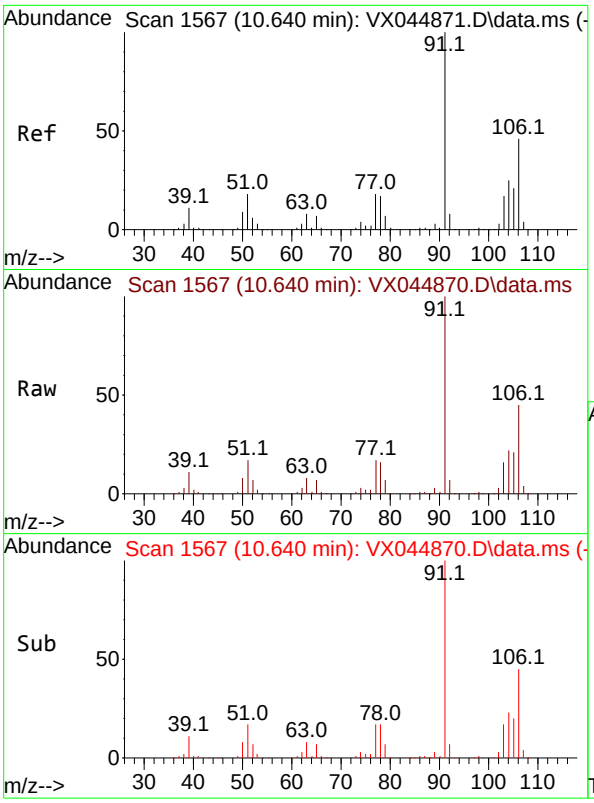


#68
m/p-Xylenes
Concen: 43.144 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:106 Resp: 125271

Ion	Ratio	Lower	Upper
106	100		
91	206.3	164.3	246.5

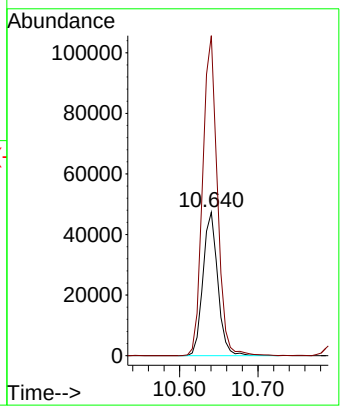




#69
o-Xylene
Concen: 21.310 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:106 Resp: 6208

Ion	Ratio	Lower	Upper
106	100		
91	221.5	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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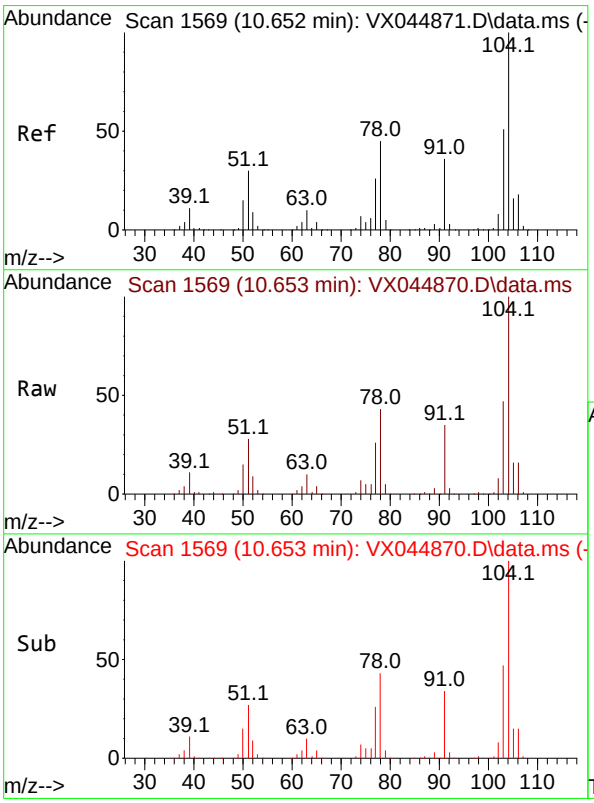
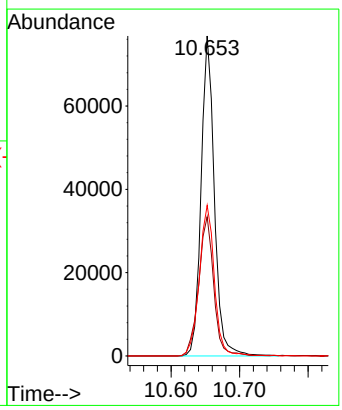
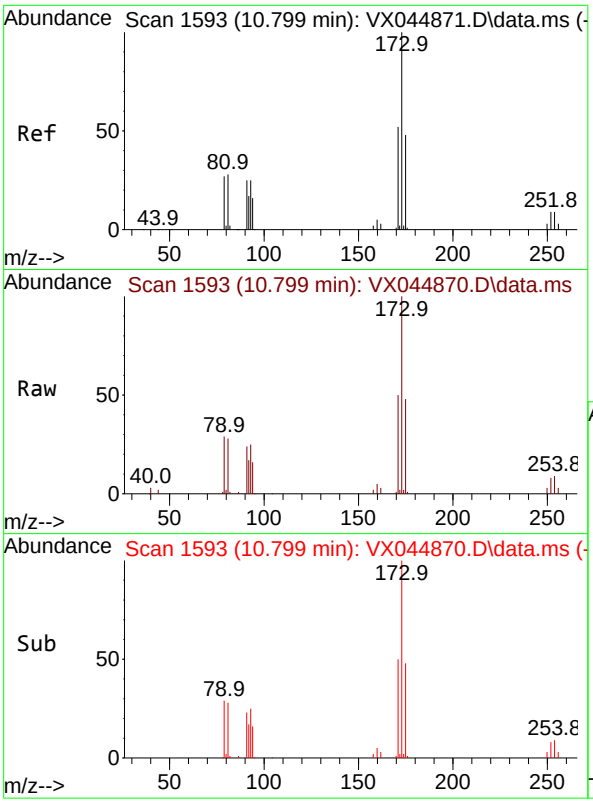


#70
Styrene
Concen: 22.101 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:104 Resp: 103740

Ion	Ratio	Lower	Upper
104	100		
78	49.2	40.5	60.7
103	53.5	43.6	65.4

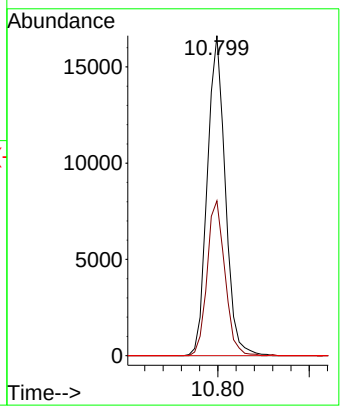




#71
Bromoform
Concen: 21.086 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:173 Resp: 2259

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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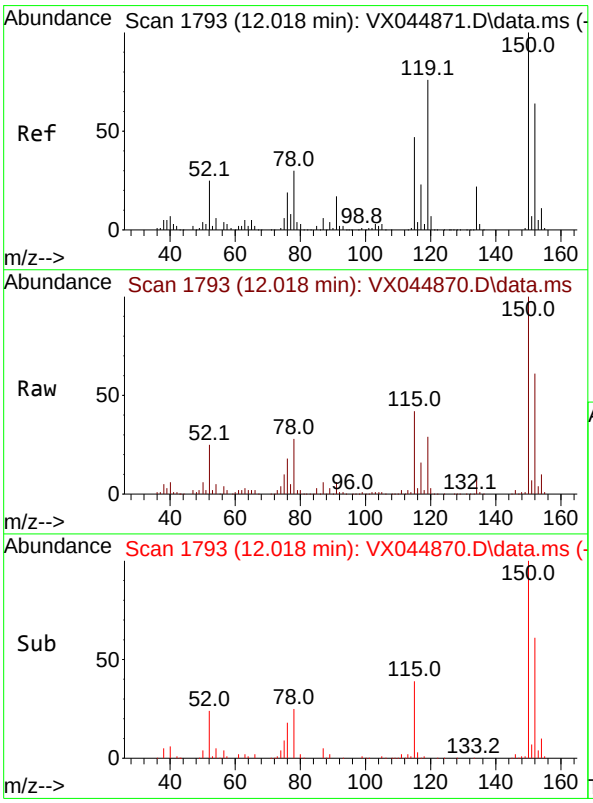
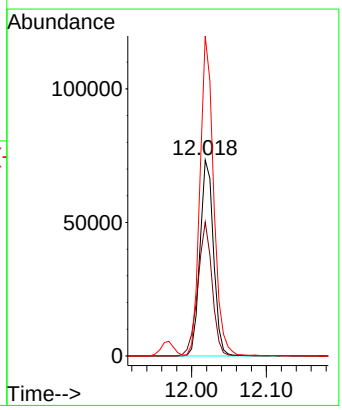
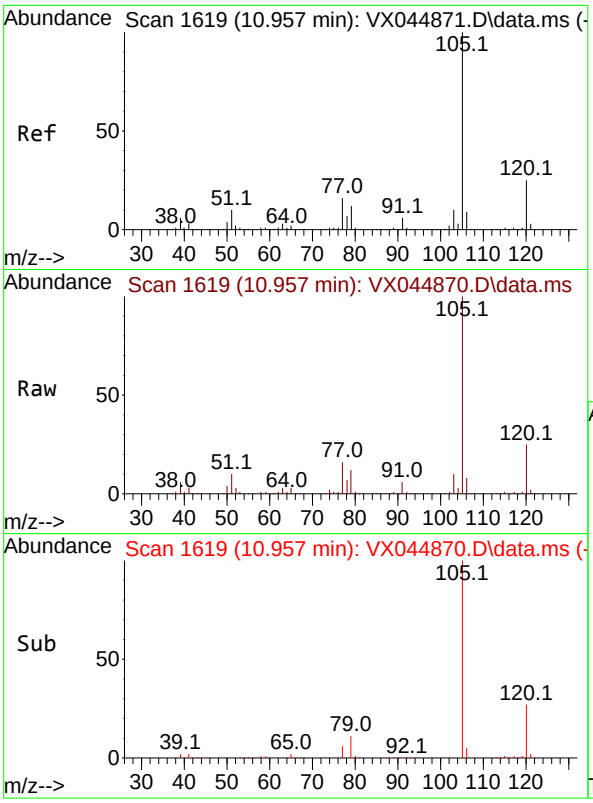


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:152 Resp: 92093

Ion	Ratio	Lower	Upper
152	100		
115	72.4	43.4	130.1
150	164.8	0.0	350.4

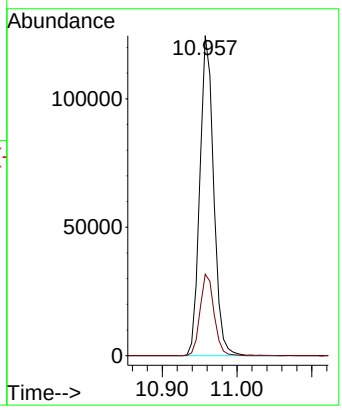




#73
Isopropylbenzene
Concen: 21.597 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 16014

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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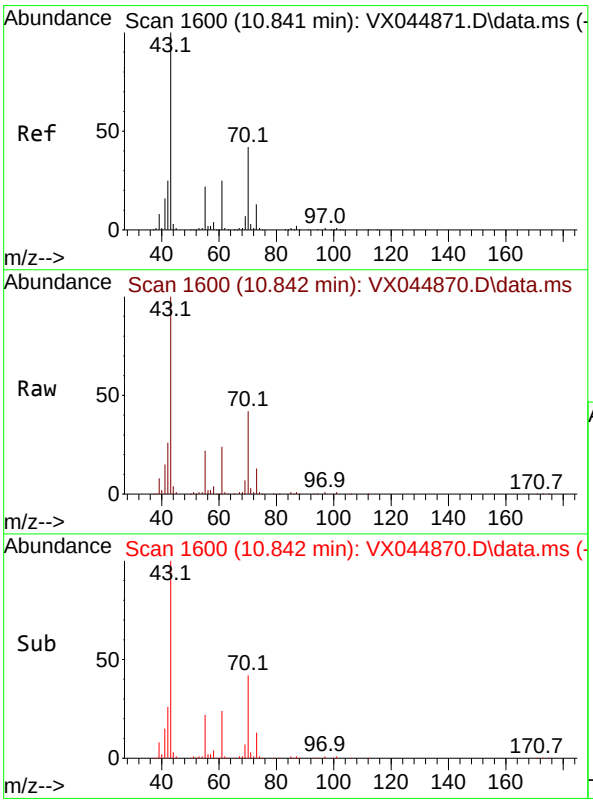
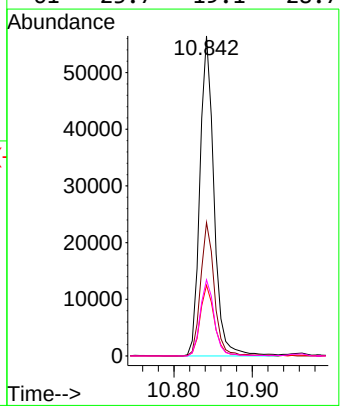
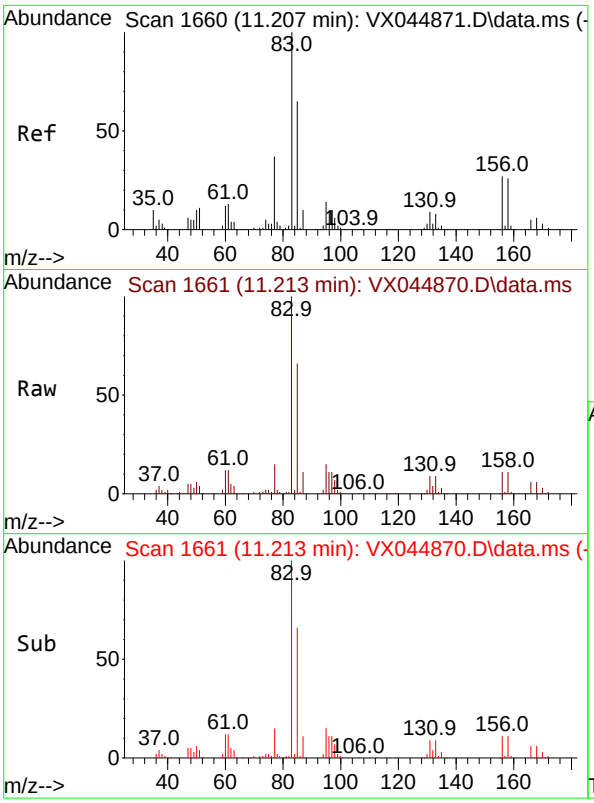


#74
N-amyl acetate
Concen: 21.023 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 70542

Ion	Ratio	Lower	Upper
43	100		
70	40.7	33.7	50.5
55	22.4	18.6	27.8
61	23.7	19.1	28.7

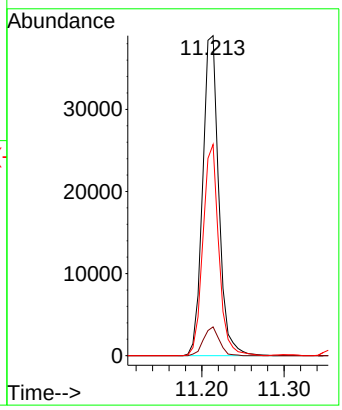




#75
1,1,2,2-Tetrachloroethane
Concen: 20.787 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 5296

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.5
85	65.1	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 02/11/2025
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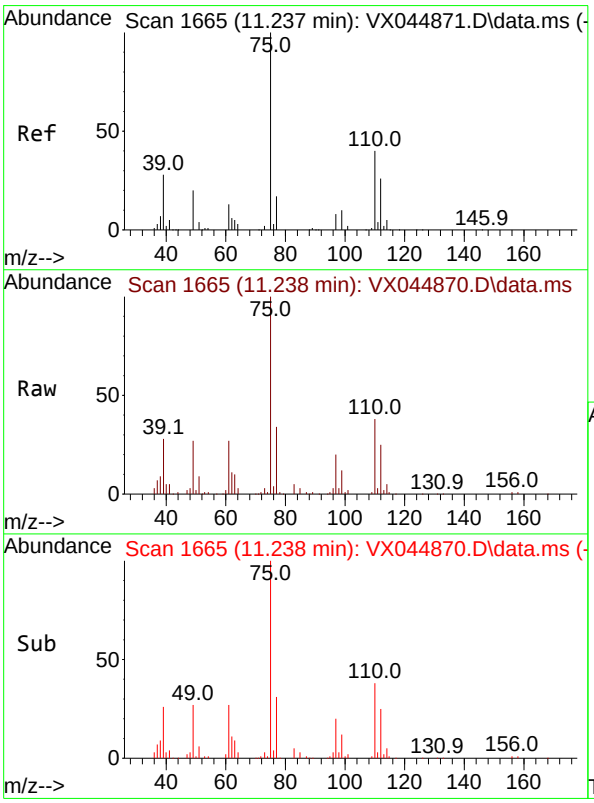
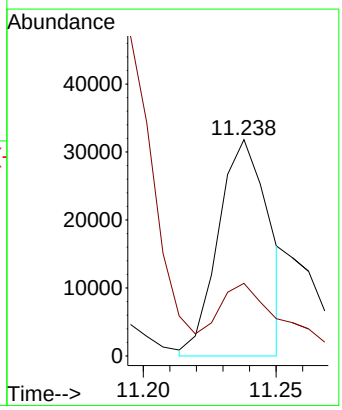
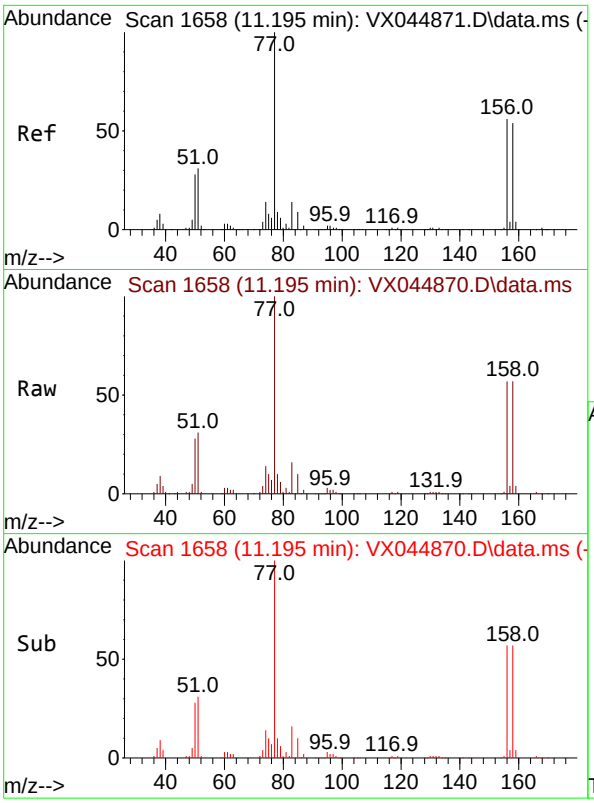


#76
1,2,3-Trichloropropane
Concen: 20.589 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 42040

Ion	Ratio	Lower	Upper
75	100		
77	43.7	21.9	65.7

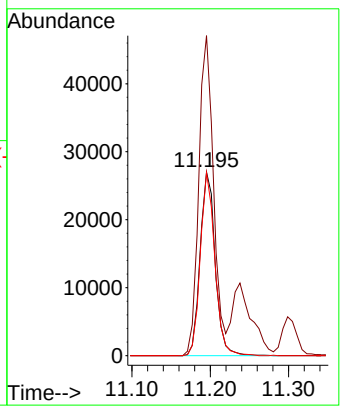




#77
Bromobenzene
Concen: 21.426 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:156 Resp: 3602

Ion	Ratio	Lower	Upper
156	100		
77	171.1	88.4	265.3
158	96.8	48.4	145.2



Instrument :
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ClientSampleId :
VSTDICC020

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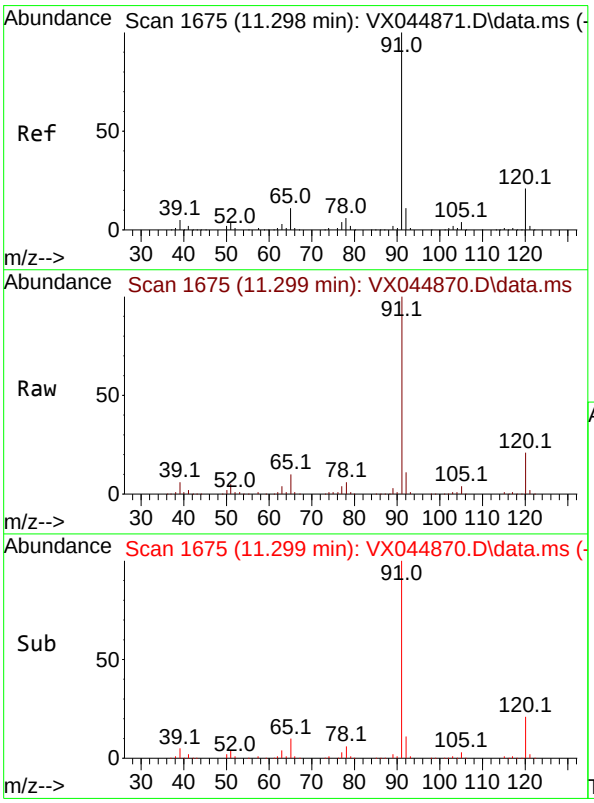
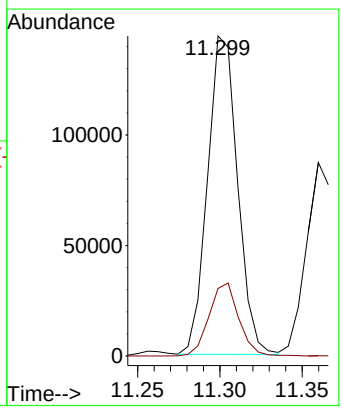
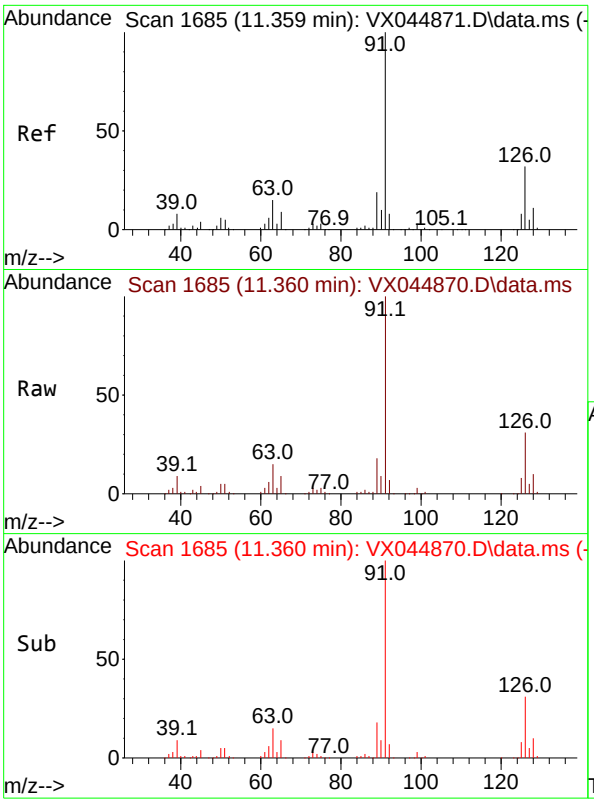


#78
n-propylbenzene
Concen: 21.406 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 183212

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3





#79
2-Chlorotoluene
Concen: 21.250 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 11178

Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.2	48.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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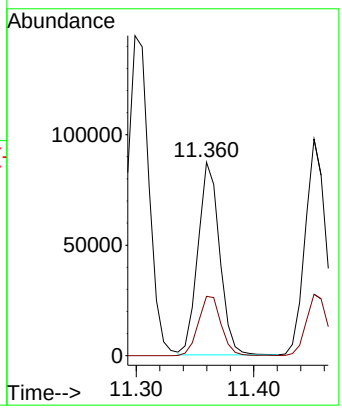
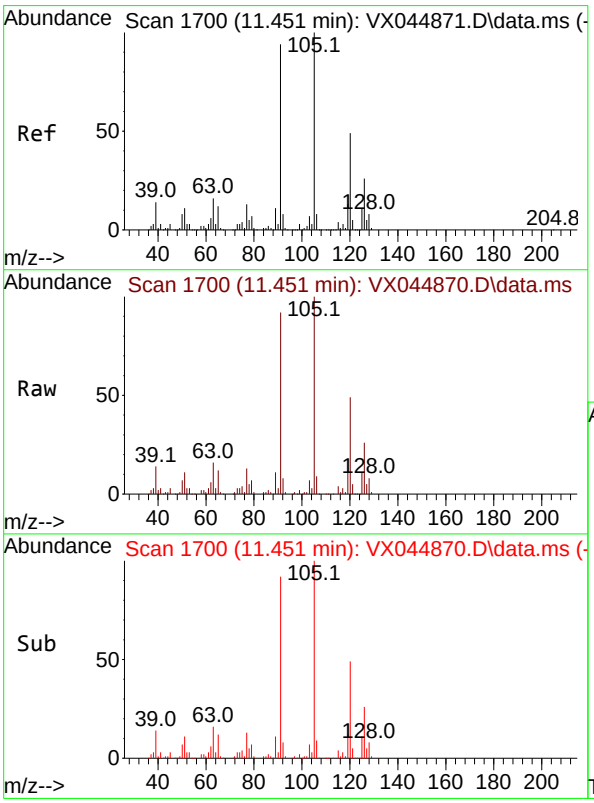
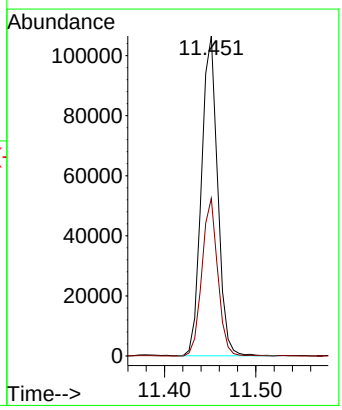


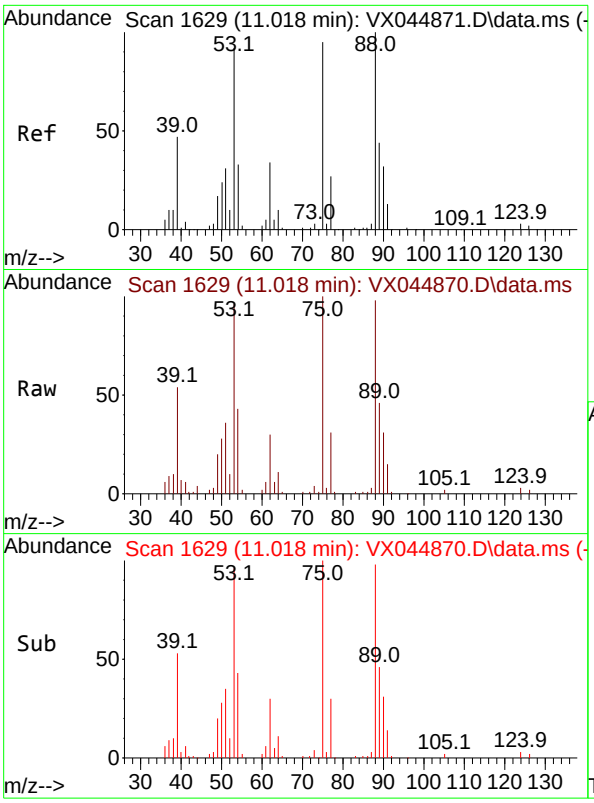


#80
1,3,5-Trimethylbenzene
Concen: 21.691 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 130526

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0

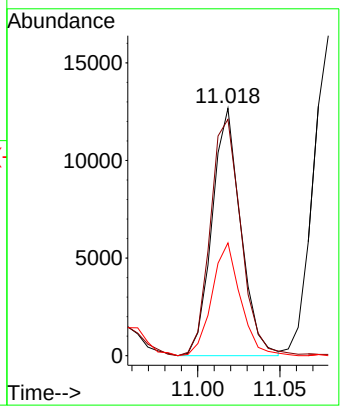




#81
trans-1,4-Dichloro-2-butene
Concen: 19.370 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 1537

Ion	Ratio	Lower	Upper
75	100		
53	103.3	78.0	117.0
89	45.3	36.6	54.8



Instrument :
MSVOA_X
ClientSampleId :
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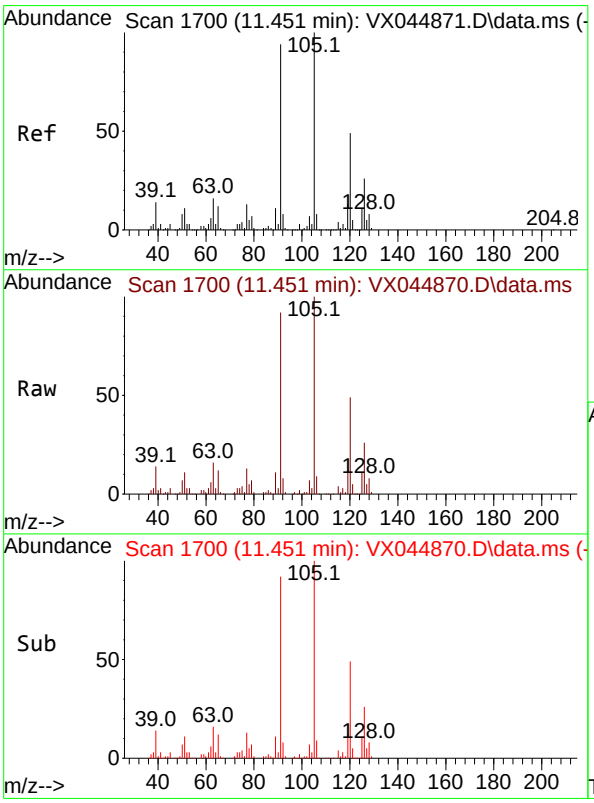
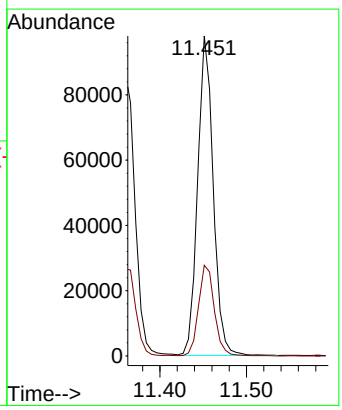
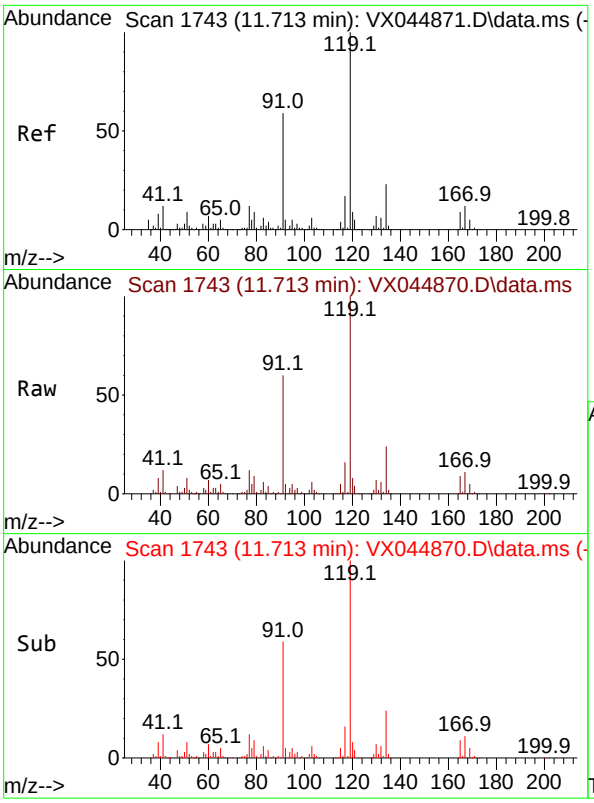


#82
4-Chlorotoluene
Concen: 21.016 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 122303

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

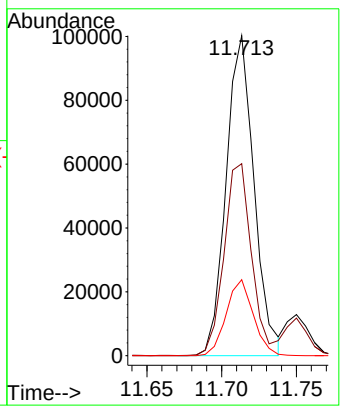




#83
tert-Butylbenzene
Concen: 21.414 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:119 Resp: 13035

Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.1	87.4
134	23.1	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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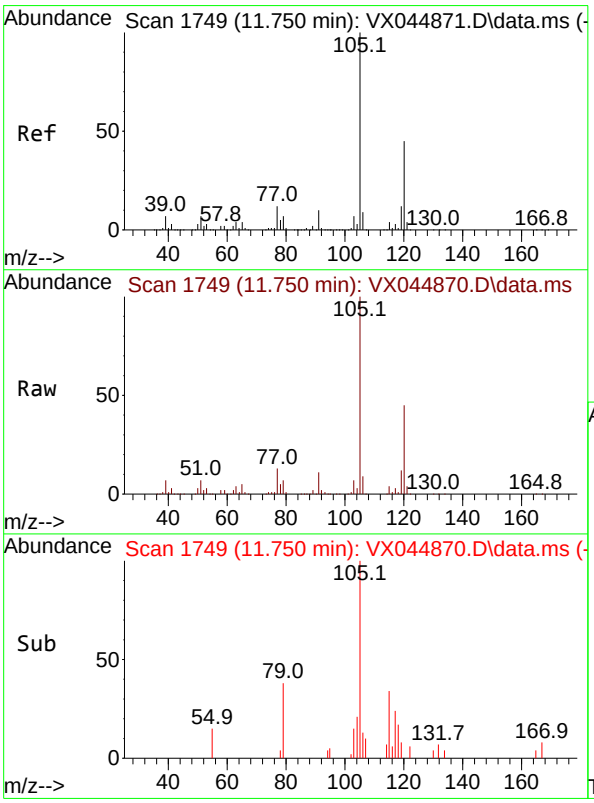
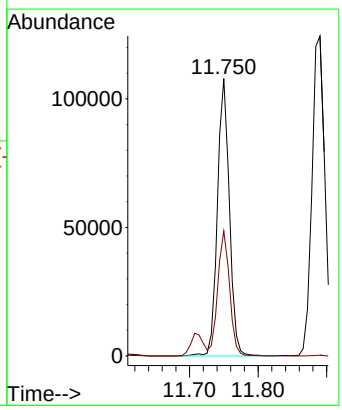
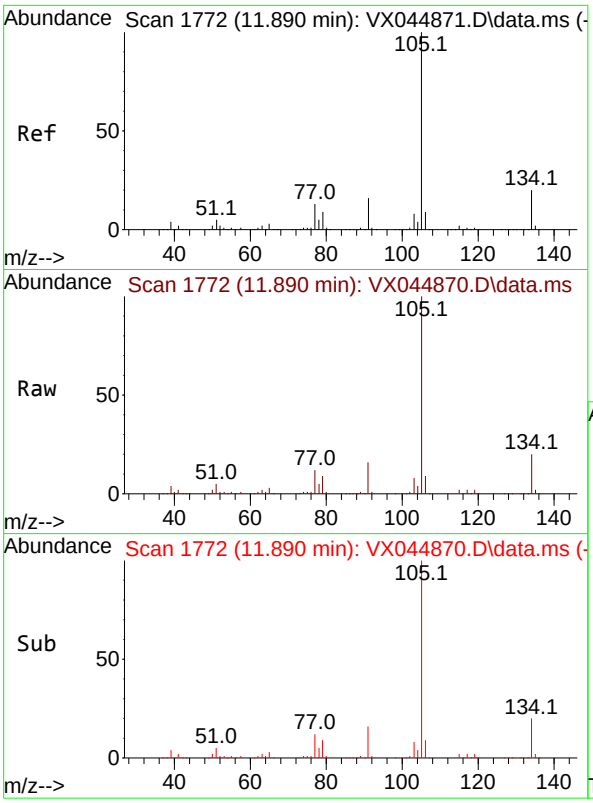


#84
1,2,4-Trimethylbenzene
Concen: 21.924 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 130211

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.0

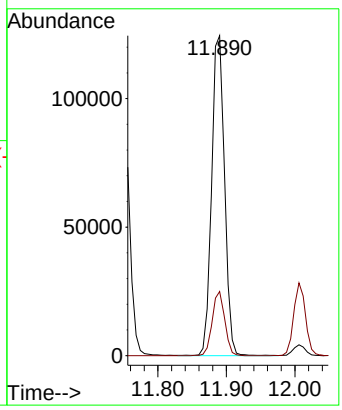




#85
sec-Butylbenzene
Concen: 21.607 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 16287

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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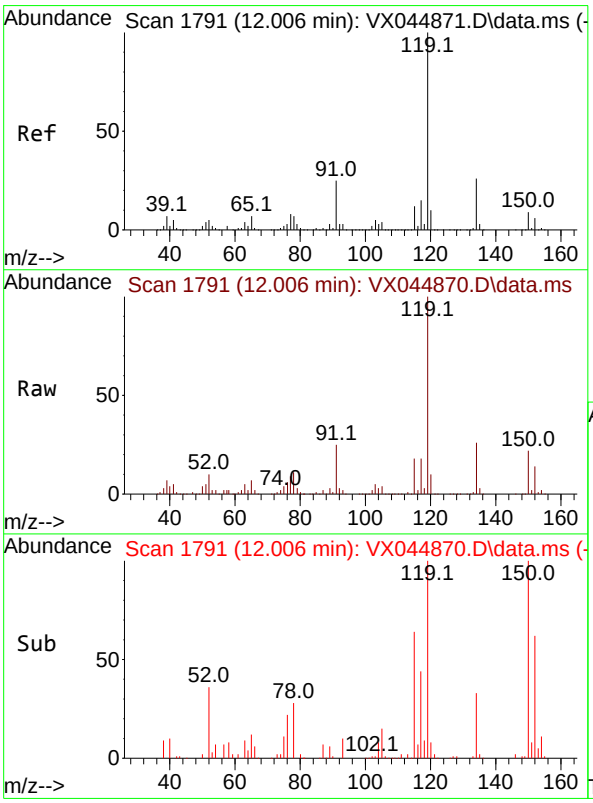
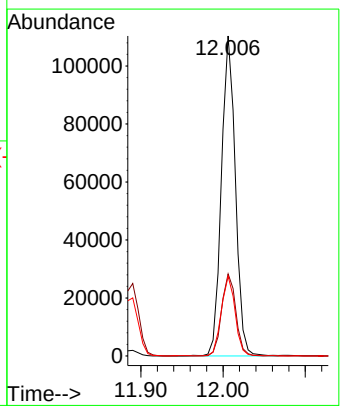
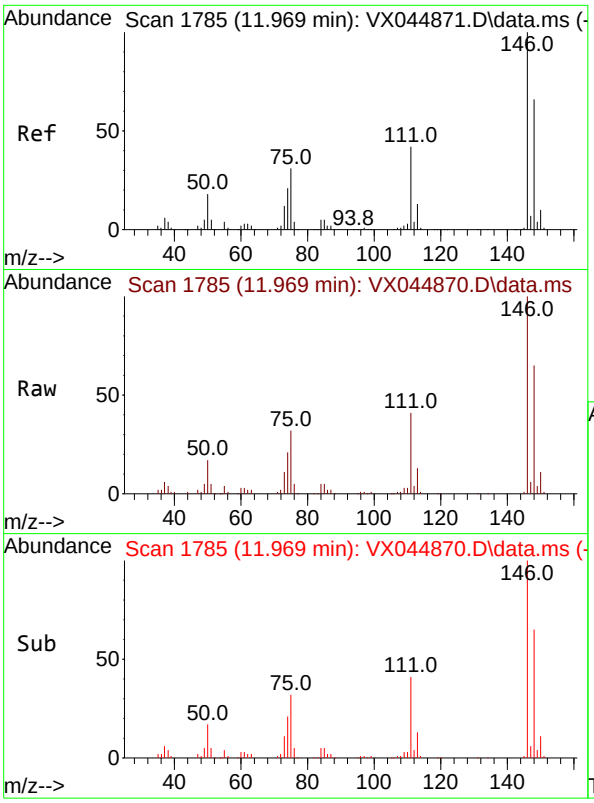


#86
p-Isopropyltoluene
Concen: 21.551 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:119 Resp: 130643

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	24.7	12.1	36.3

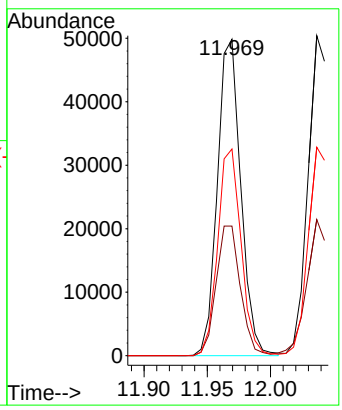




#87
1,3-Dichlorobenzene
Concen: 20.747 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:146 Resp: 6414

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.2	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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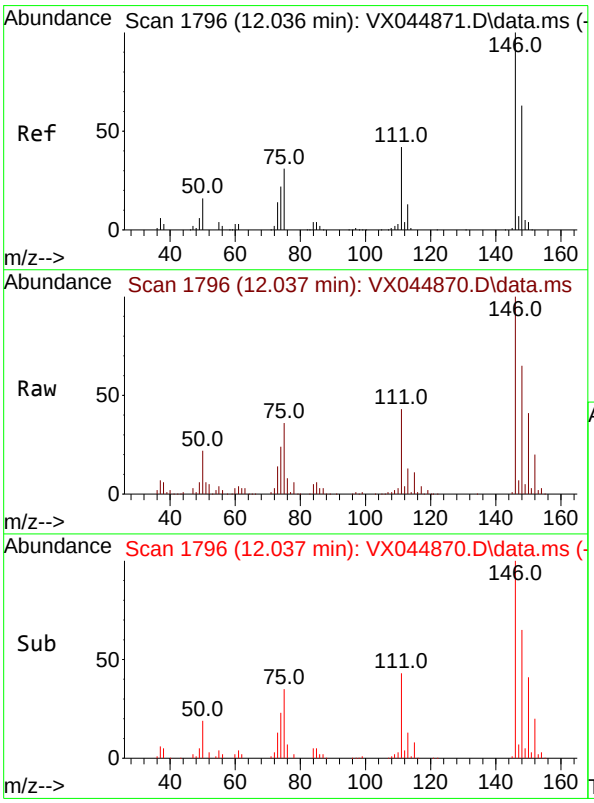
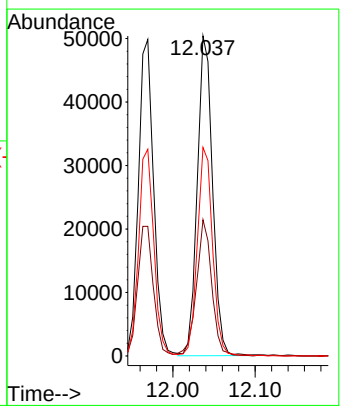
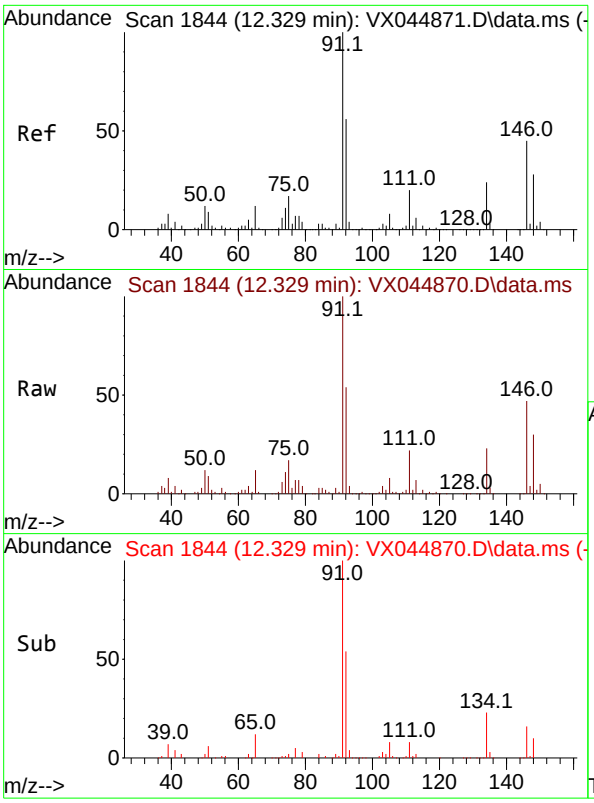


#88
1,4-Dichlorobenzene
Concen: 20.758 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:146 Resp: 64889

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.4	61.3
148	65.3	32.0	96.0

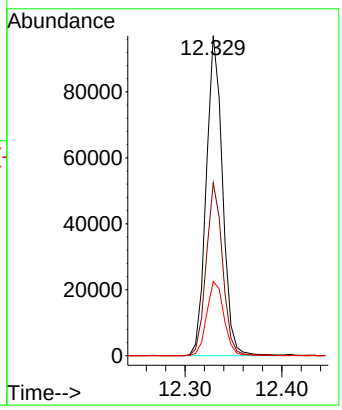




#89
n-Butylbenzene
Concen: 21.202 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 11370

Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.2	81.6
134	24.7	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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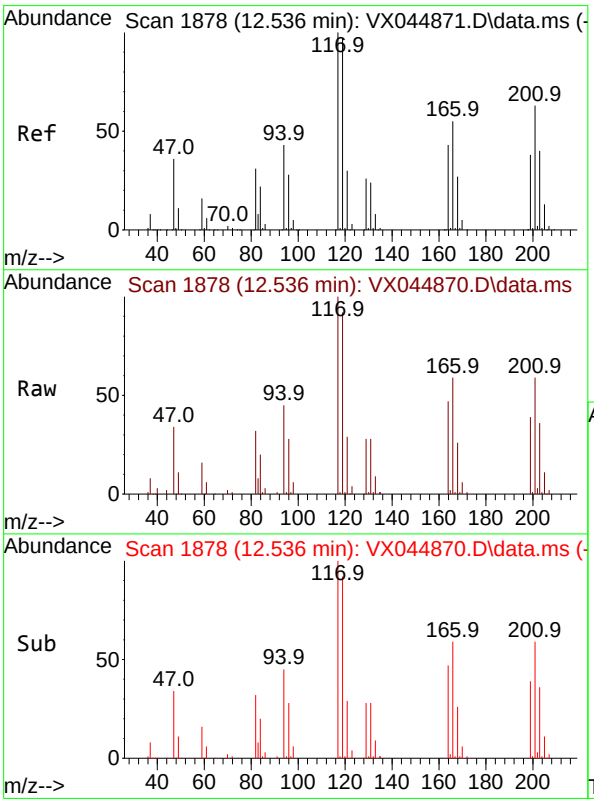
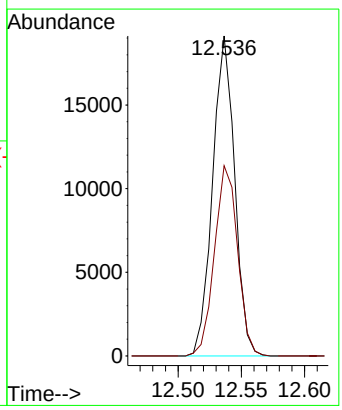
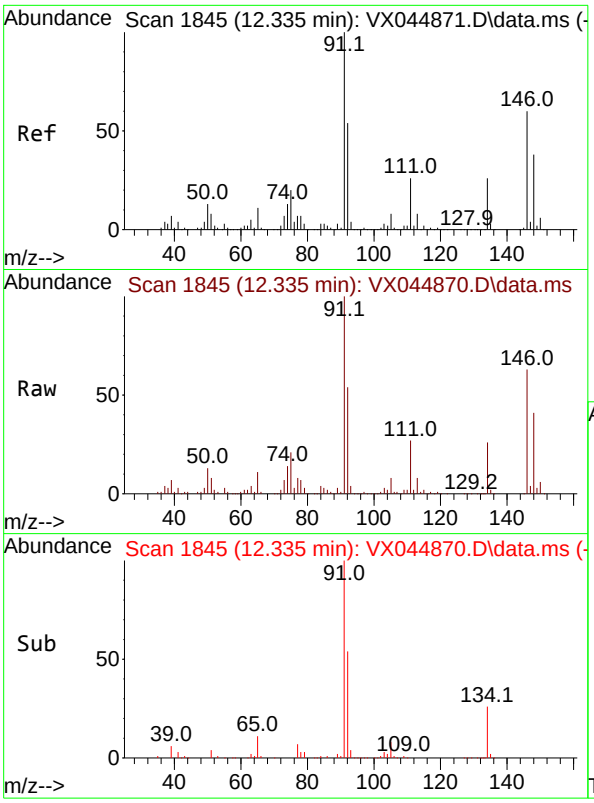


#90
Hexachloroethane
Concen: 20.398 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 23153

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.5	97.5

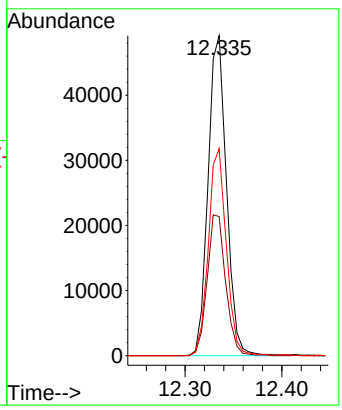




#91
1,2-Dichlorobenzene
Concen: 21.373 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:146 Resp: 6494

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.8	65.4
148	63.3	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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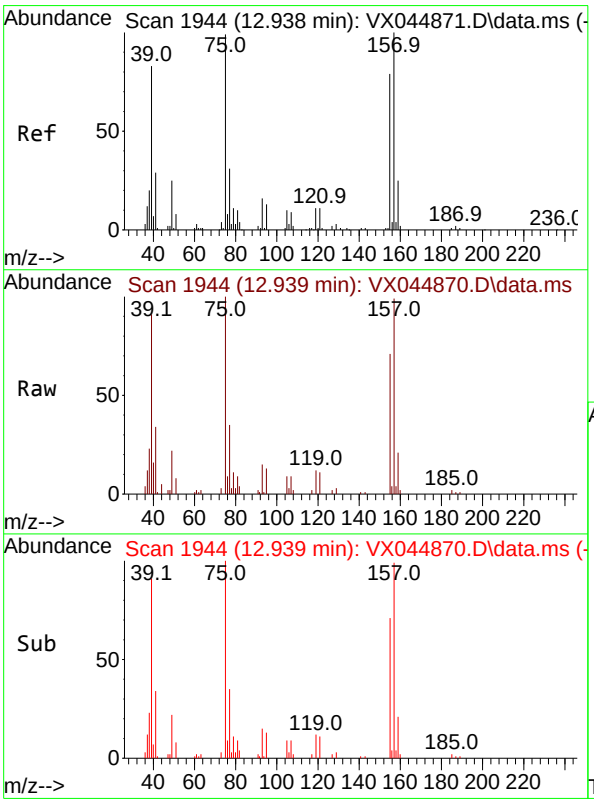
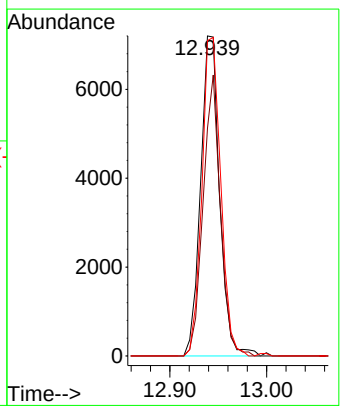
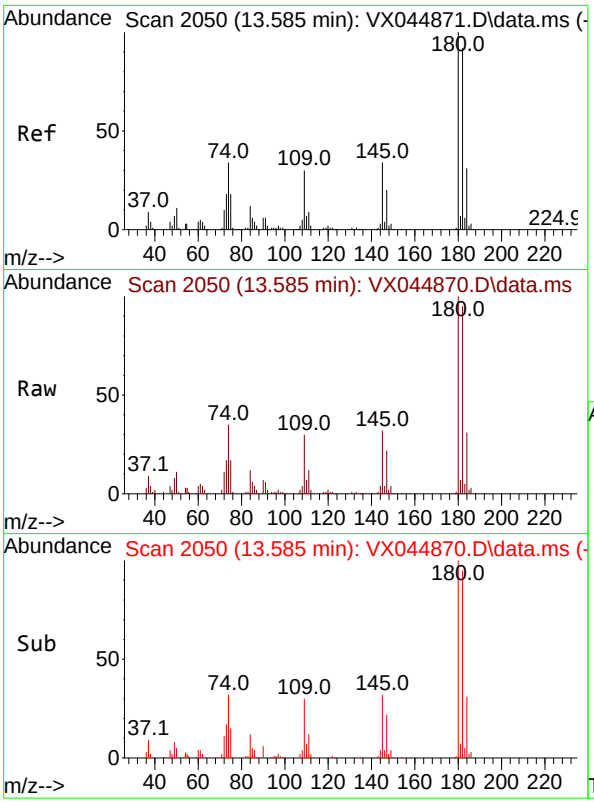


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.230 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 9873

Ion	Ratio	Lower	Upper
75	100		
155	79.8	40.5	121.4
157	98.3	51.4	154.3

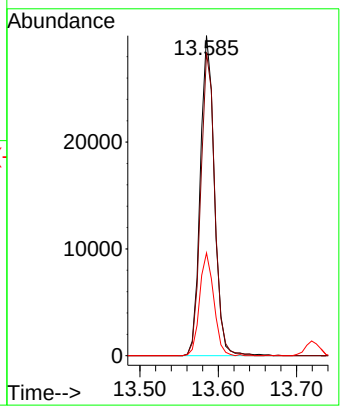




#93
1,2,4-Trichlorobenzene
Concen: 20.292 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:180 Resp: 3730

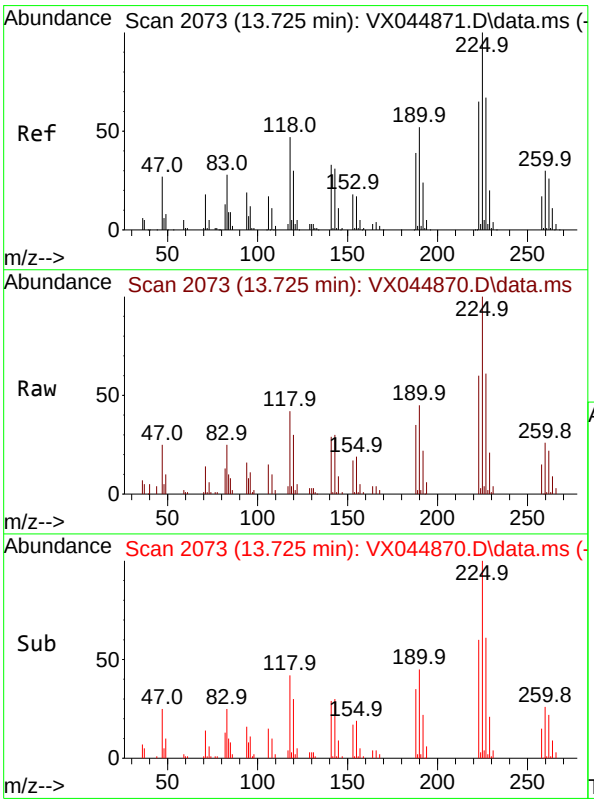
Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.6	142.8
145	32.4	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

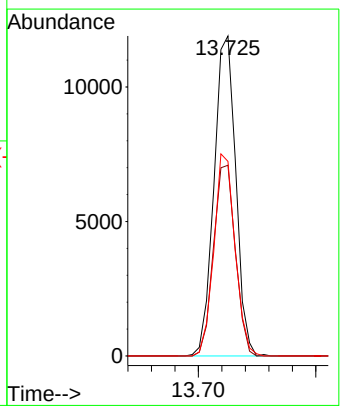
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

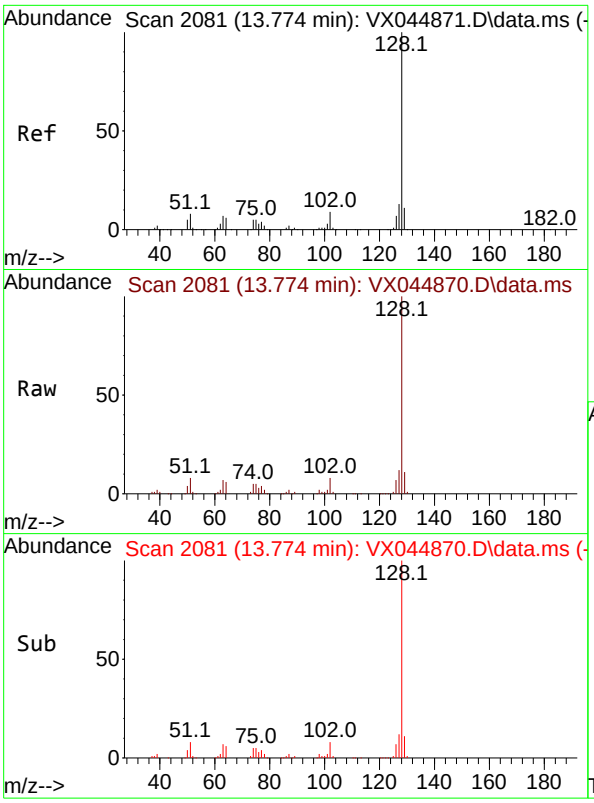


#94
Hexachlorobutadiene
Concen: 20.979 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:225 Resp: 15312

Ion	Ratio	Lower	Upper
225	100		
223	59.9	31.4	94.2
227	61.4	32.3	96.8

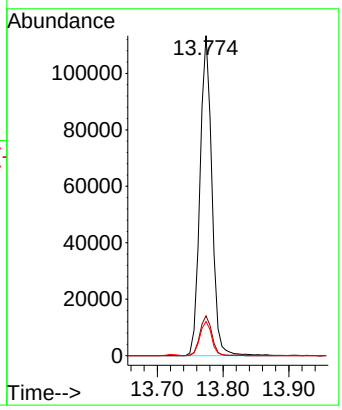




#95
Naphthalene
Concen: 21.502 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:128 Resp: 14290

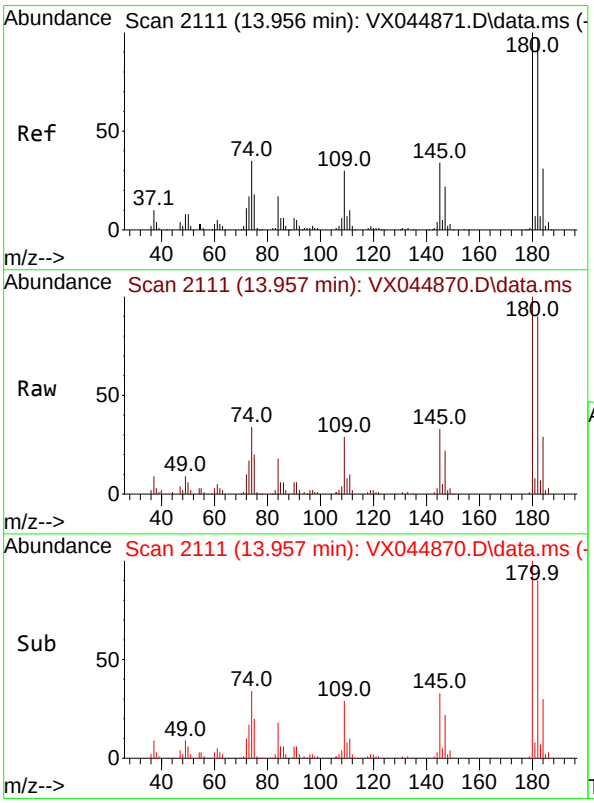
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.6	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

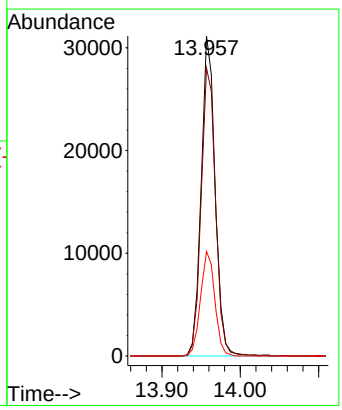
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.722 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:180 Resp: 38389

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.9	143.6
145	33.5	17.1	51.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	127984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233736	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	204751	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92593	49.424	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.840%			
35) Dibromofluoromethane	5.379	113	74906	49.291	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.580%			
50) Toluene-d8	8.646	98	289575	50.392	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.780%			
62) 4-Bromofluorobenzene	11.079	95	100798	52.031	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	89581	49.905	ug/l	100
3) Chloromethane	1.300	50	107836	49.359	ug/l	100
4) Vinyl Chloride	1.373	62	103354	48.832	ug/l	100
5) Bromomethane	1.593	94	31886	50.345	ug/l	100
6) Chloroethane	1.666	64	43657	55.583	ug/l	100
7) Trichlorofluoromethane	1.873	101	131729	49.215	ug/l	100
8) Diethyl Ether	2.129	74	48023	49.473	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.318	101	80068	49.511	ug/l	100
10) Methyl Iodide	2.446	142	108383	51.712	ug/l	100
11) Tert butyl alcohol	2.983	59	87254	251.049	ug/l	100
12) 1,1-Dichloroethene	2.312	96	80672	48.904	ug/l	100
13) Acrolein	2.233	56	90518	252.426	ug/l	100
14) Allyl chloride	2.660	41	148044	49.658	ug/l	100
15) Acrylonitrile	3.062	53	242268	261.074	ug/l	100
16) Acetone	2.379	43	187739	249.274	ug/l	100
17) Carbon Disulfide	2.501	76	225511	49.853	ug/l	100
18) Methyl Acetate	2.702	43	121039	50.928	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	261852	49.890	ug/l	100
20) Methylene Chloride	2.782	84	90038	48.808	ug/l	100
21) trans-1,2-Dichloroethene	3.086	96	81950	50.475	ug/l	100
22) Diisopropyl ether	3.757	45	287347	50.946	ug/l	100
23) Vinyl Acetate	3.714	43	1190152	258.830	ug/l	100
24) 1,1-Dichloroethane	3.605	63	157003	49.749	ug/l	100
25) 2-Butanone	4.556	43	323510	264.528	ug/l	100
26) 2,2-Dichloropropane	4.470	77	121901	48.707	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	96965	49.721	ug/l	100
28) Bromochloromethane	4.891	49	74707	49.258	ug/l	100
29) Tetrahydrofuran	5.001	42	210414	259.105	ug/l	100
30) Chloroform	5.086	83	149581	48.874	ug/l	100
31) Cyclohexane	5.464	56	143500	49.322	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	128561	49.523	ug/l	100
36) 1,1-Dichloropropene	5.690	75	108206	49.353	ug/l	100
37) Ethyl Acetate	4.708	43	123238	50.535	ug/l	100
38) Carbon Tetrachloride	5.671	117	105873	49.277	ug/l	100
39) Methylcyclohexane	7.372	83	145338	51.274	ug/l	100
40) Benzene	6.031	78	343557	50.182	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.915	41	70572	54.065	ug/l		100
42) 1,2-Dichloroethane	6.080	62	110347	50.573	ug/l		100
43) Isopropyl Acetate	6.336	43	204703	51.981	ug/l		100
44) Trichloroethene	7.122	130	78274	50.020	ug/l		100
45) 1,2-Dichloropropane	7.427	63	85733	50.335	ug/l		100
46) Dibromomethane	7.573	93	59625	50.479	ug/l		100
47) Bromodichloromethane	7.817	83	116892	51.108	ug/l		100
48) Methyl methacrylate	7.689	41	98519	53.057	ug/l		100
49) 1,4-Dioxane	7.659	88	42094	1056.618	ug/l		100
51) 4-Methyl-2-Pentanone	8.573	43	647283	270.364	ug/l		100
52) Toluene	8.714	92	210007	51.507	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	120125	51.902	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	134763	52.223	ug/l		100
55) 1,1,2-Trichloroethane	9.146	97	79741	50.876	ug/l		100
56) Ethyl methacrylate	9.116	69	134975	53.319	ug/l		100
57) 1,3-Dichloropropane	9.305	76	141335	51.537	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	336412	270.652	ug/l		100
59) 2-Hexanone	9.427	43	472301	273.800	ug/l		100
60) Dibromochloromethane	9.518	129	87240	52.045	ug/l		100
61) 1,2-Dibromoethane	9.604	107	81915	51.564	ug/l		100
64) Tetrachloroethene	9.268	164	63537	49.206	ug/l		100
65) Chlorobenzene	10.079	112	224306	51.005	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.158	131	72478	51.203	ug/l		100
67) Ethyl Benzene	10.189	91	396269	51.061	ug/l		100
68) m/p-Xylenes	10.299	106	296507	103.573	ug/l		100
69) o-Xylene	10.640	106	144802	50.409	ug/l		100
70) Styrene	10.652	104	245518	53.051	ug/l		100
71) Bromoform	10.799	173	57417	54.352	ug/l	#	100
73) Isopropylbenzene	10.957	105	374776	50.239	ug/l		100
74) N-amyl acetate	10.841	43	176174	52.189	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	126542	49.364	ug/l		100
76) 1,2,3-Trichloropropane	11.237	75	102508m	49.903	ug/l		
77) Bromobenzene	11.195	156	84448	49.931	ug/l		100
78) n-propylbenzene	11.298	91	437572	50.818	ug/l		100
79) 2-Chlorotoluene	11.359	91	263269	49.749	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	307465	50.789	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	40487	50.701	ug/l		100
82) 4-Chlorotoluene	11.451	91	295844	50.531	ug/l		100
83) tert-Butylbenzene	11.713	119	306830	50.102	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	311205	52.085	ug/l		100
85) sec-Butylbenzene	11.890	105	384155	50.657	ug/l		100
86) p-Isopropyltoluene	12.006	119	315226	51.689	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	155575	50.021	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	156162	49.657	ug/l		100
89) n-Butylbenzene	12.329	91	287649	53.315	ug/l		100
90) Hexachloroethane	12.536	117	56951	49.874	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	154364	50.500	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	23924	51.135	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	93863	50.747	ug/l		100
94) Hexachlorobutadiene	13.725	225	35481	48.321	ug/l		100
95) Naphthalene	13.774	128	347645	51.995	ug/l		100
96) 1,2,3-Trichlorobenzene	13.956	180	95510	51.245	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

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

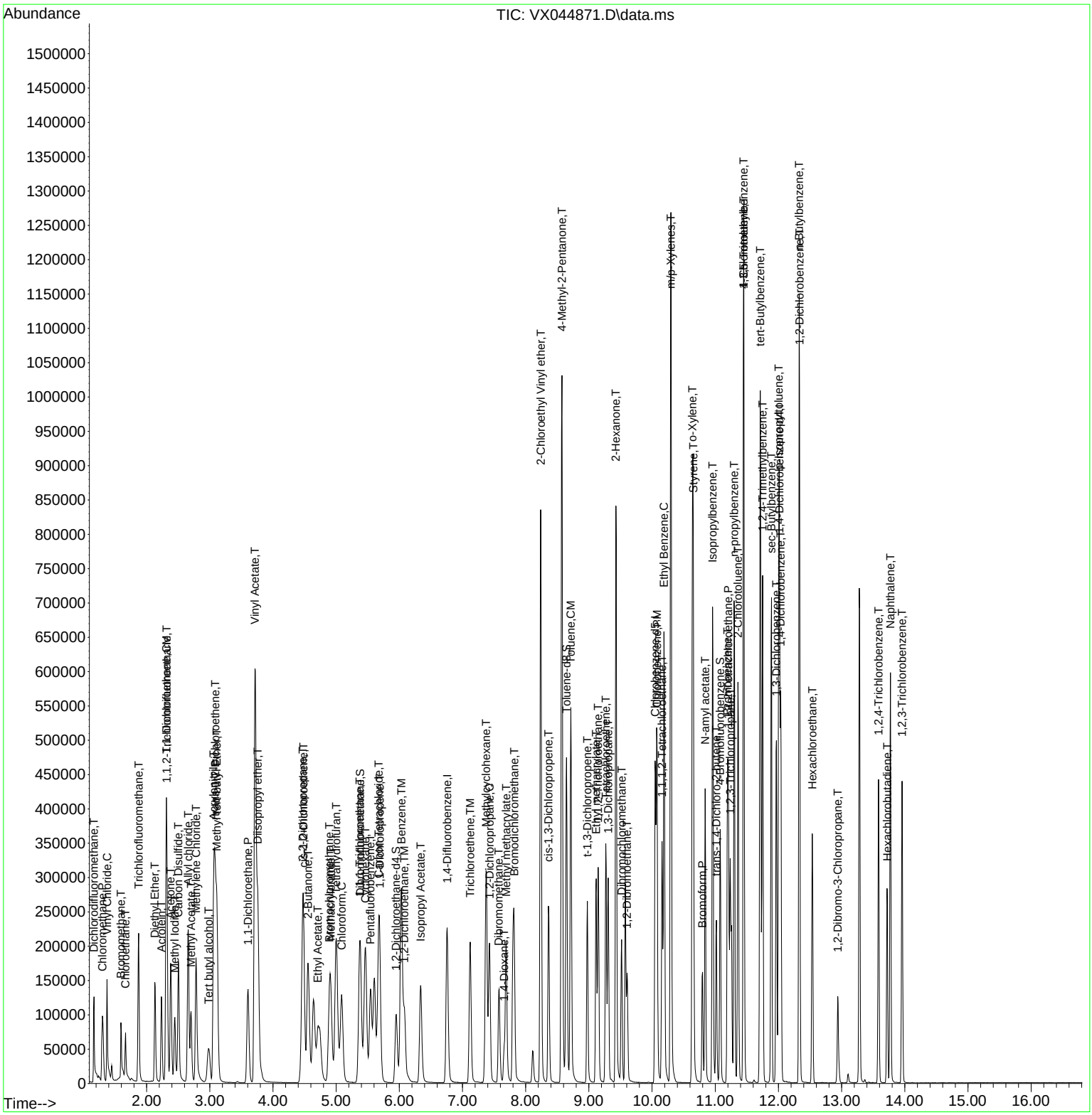
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

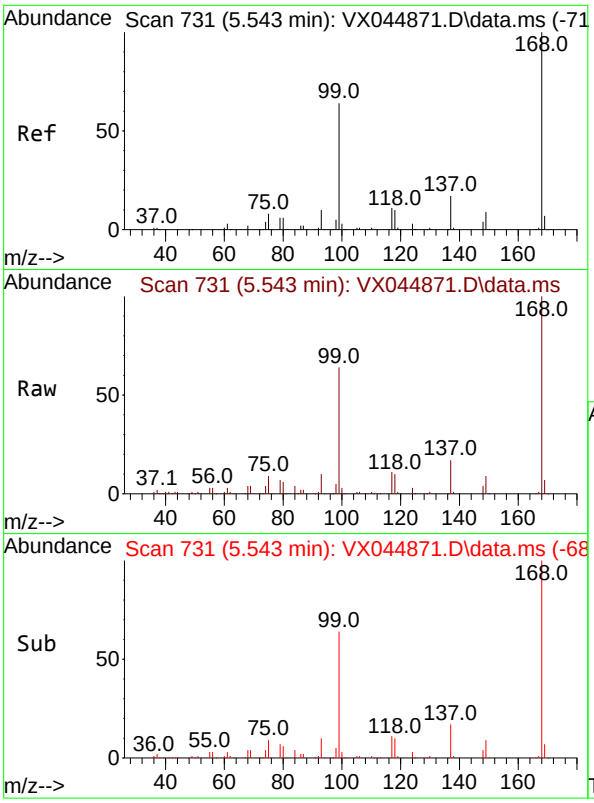
Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

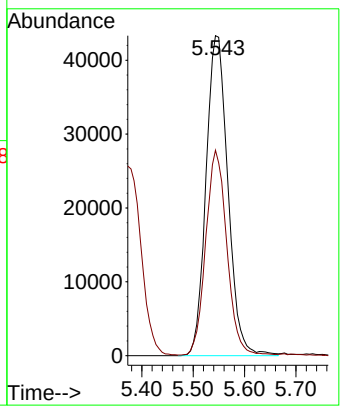




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:168 Resp: 12798

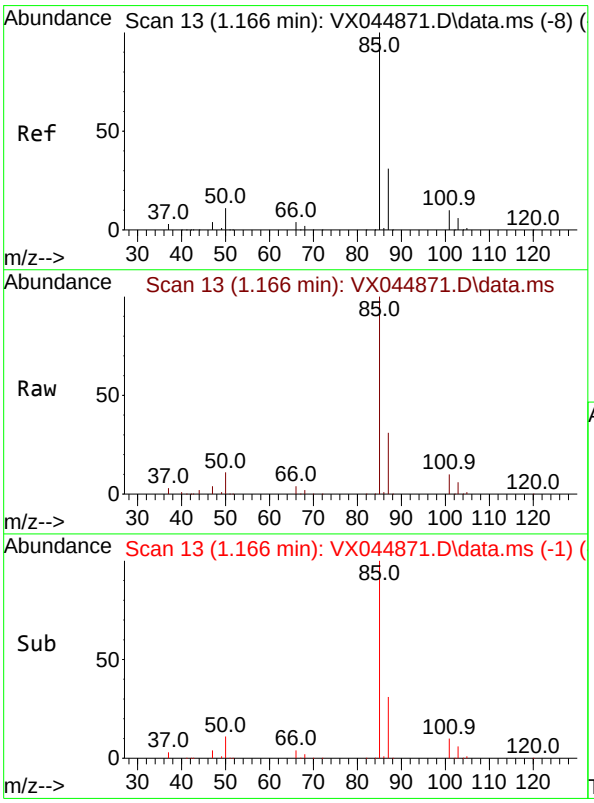
Ion	Ratio	Lower	Upper
168	100		
99	64.0	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

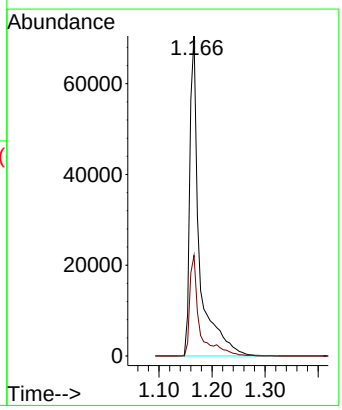
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

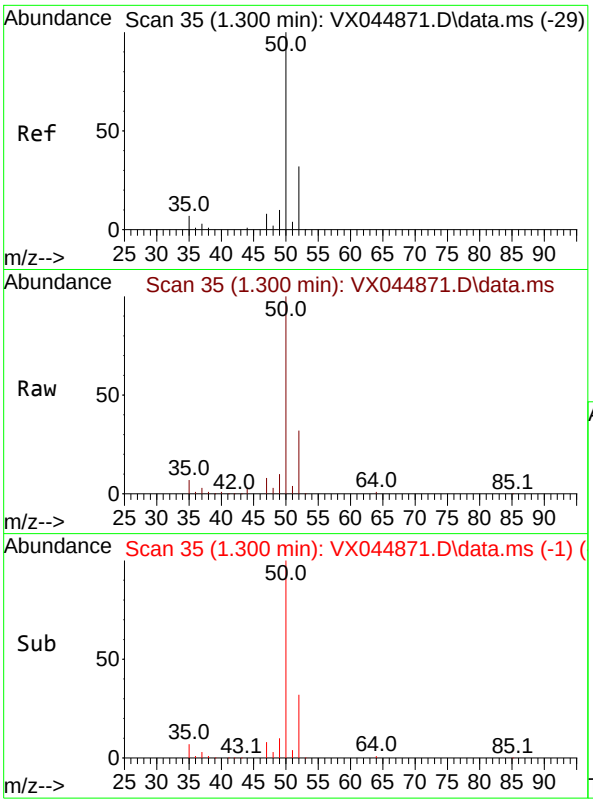


#2
Dichlorodifluoromethane
Concen: 49.905 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 85 Resp: 89581

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

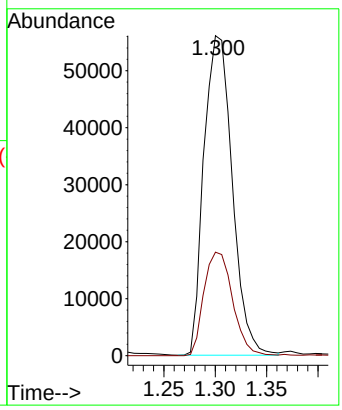




#3
Chloromethane
Concen: 49.359 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 50 Resp: 10783

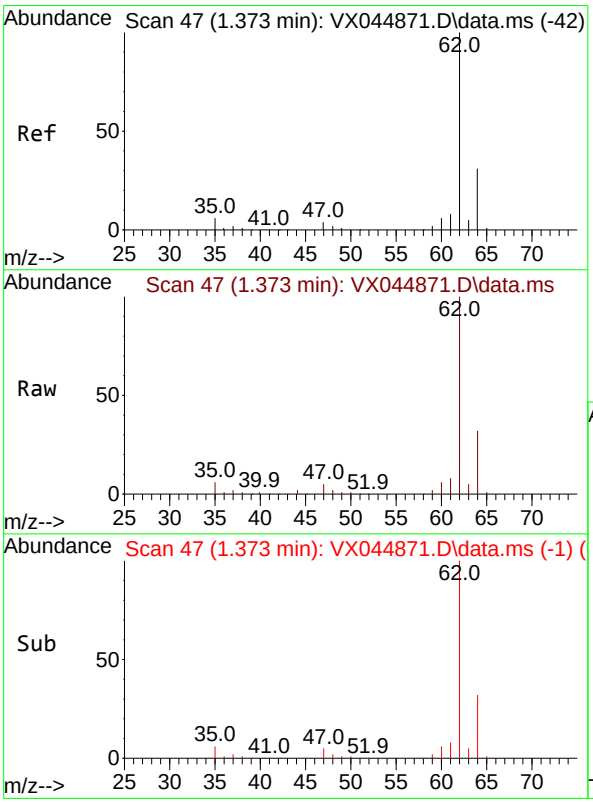
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

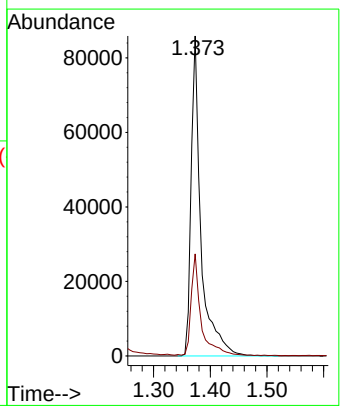
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

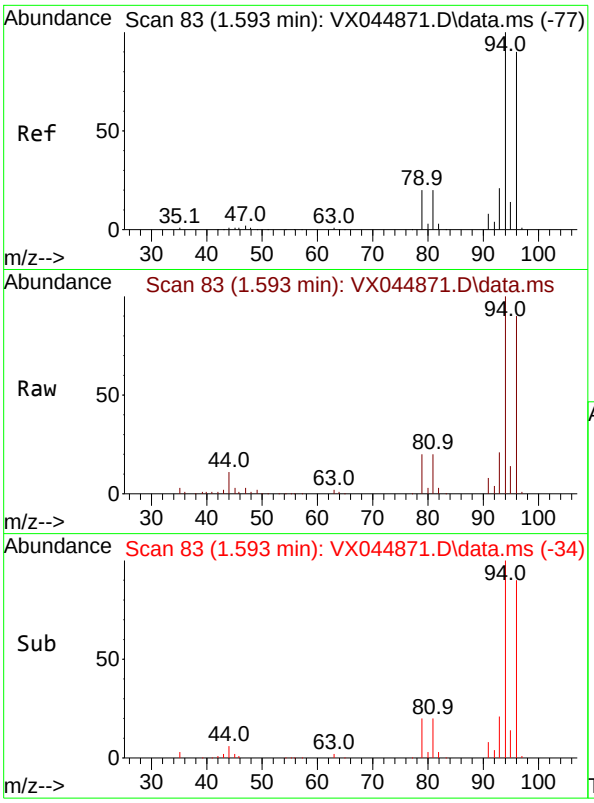


#4
Vinyl Chloride
Concen: 48.832 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 103354

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0

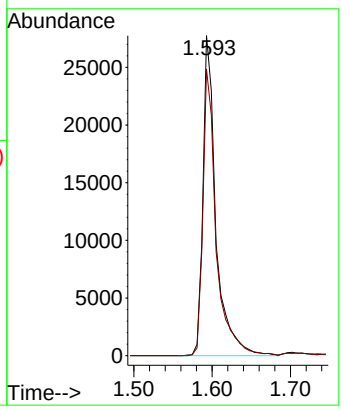




#5
Bromomethane
Concen: 50.345 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 94 Resp: 3188

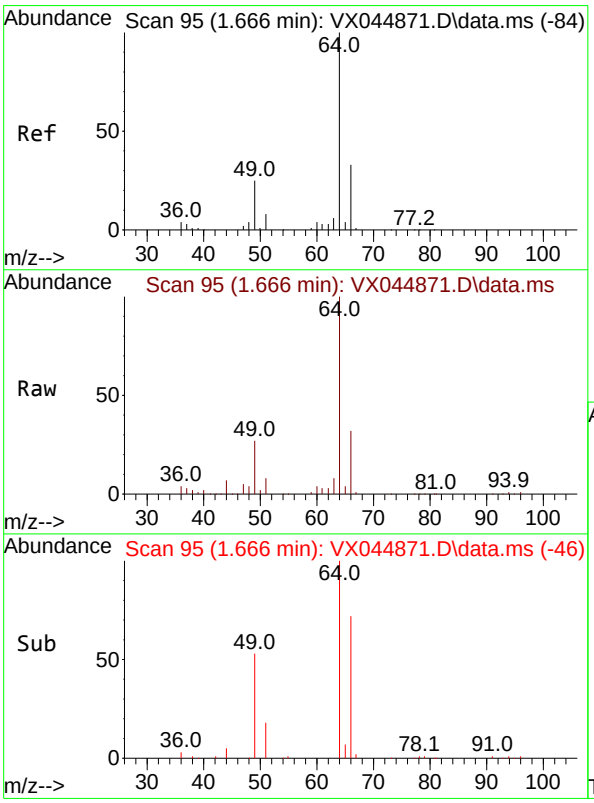
Ion	Ratio	Lower	Upper
94	100		
96	89.5	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

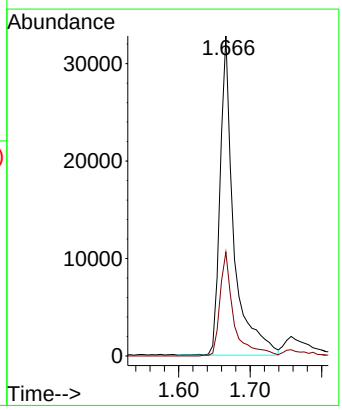
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

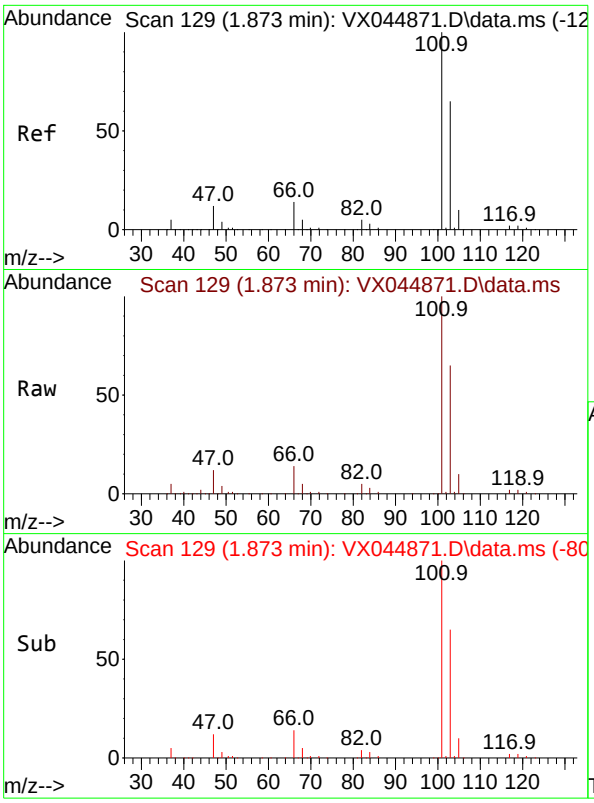


#6
Chloroethane
Concen: 55.583 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 64 Resp: 43657

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.9	38.9

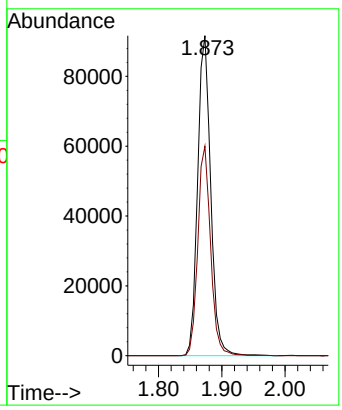




#7
Trichlorofluoromethane
Concen: 49.215 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:101 Resp: 13172

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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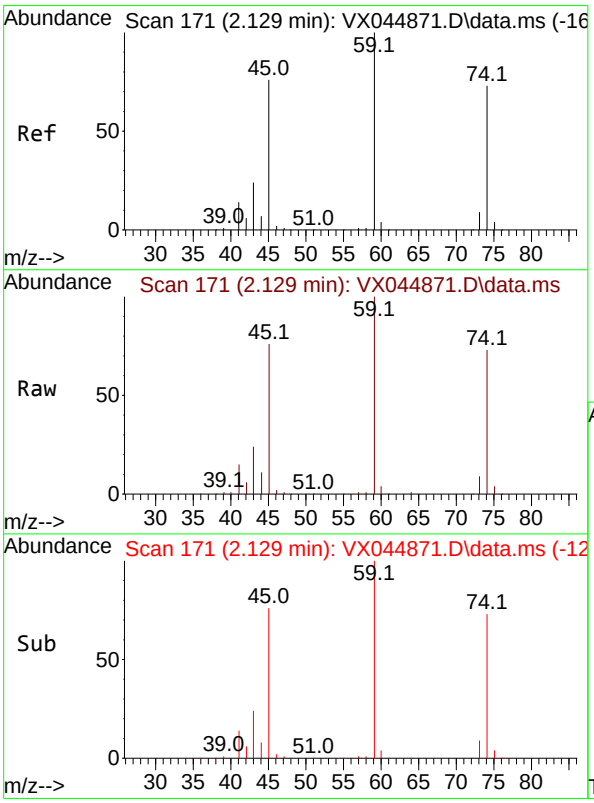
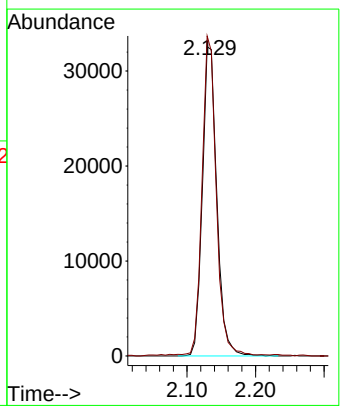
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

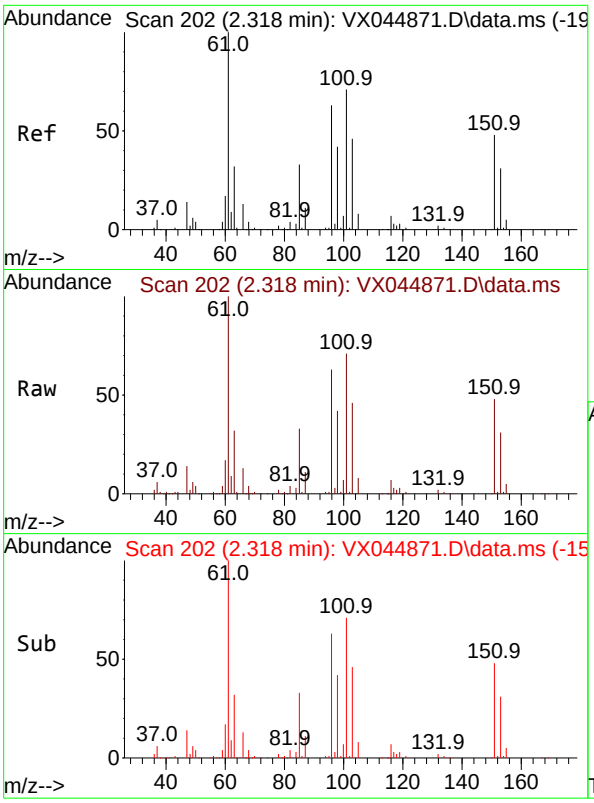


#8
Diethyl Ether
Concen: 49.473 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 74 Resp: 48023

Ion	Ratio	Lower	Upper
74	100		
45	102.3	51.1	153.4

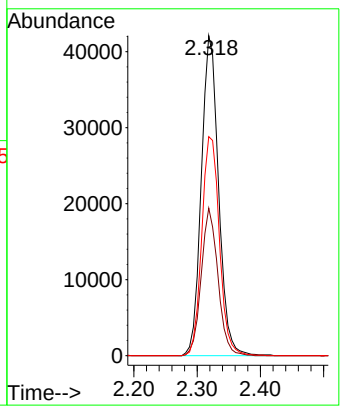




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.511 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:101 Resp: 8006

Ion	Ratio	Lower	Upper
101	100		
85	44.6	35.7	53.5
151	70.0	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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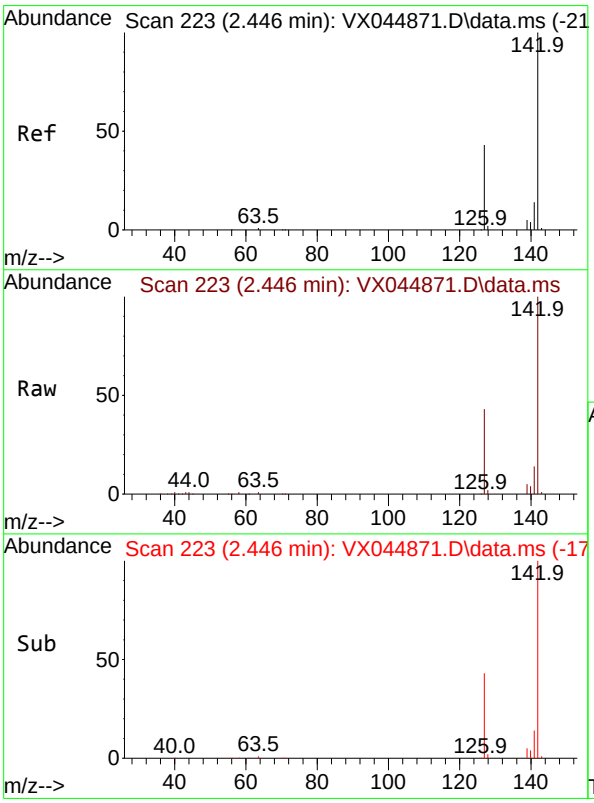
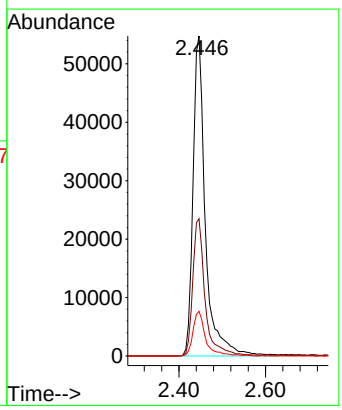
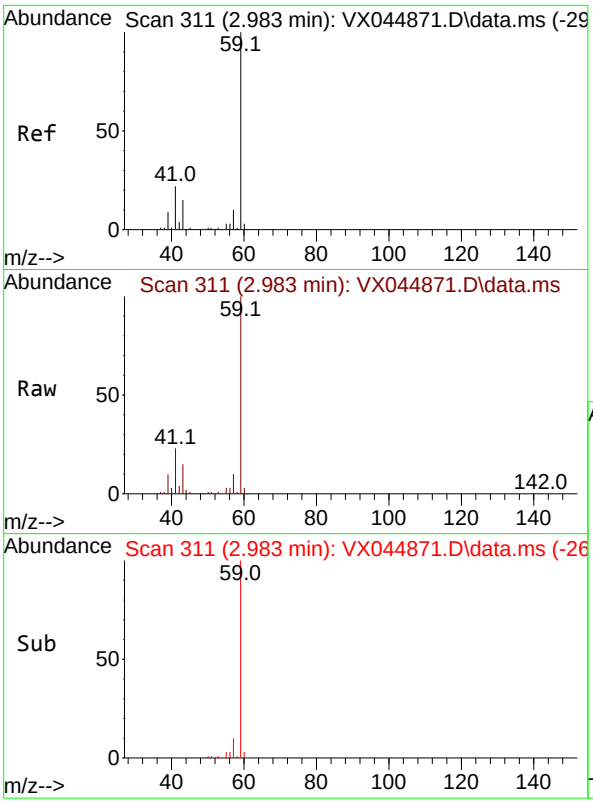


#10
Methyl Iodide
Concen: 51.712 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:142 Resp: 108383

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.3	51.5
141	14.3	11.4	17.2

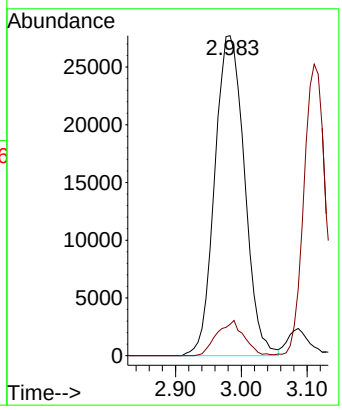




#11
Tert butyl alcohol
Concen: 251.049 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 59 Resp: 8725

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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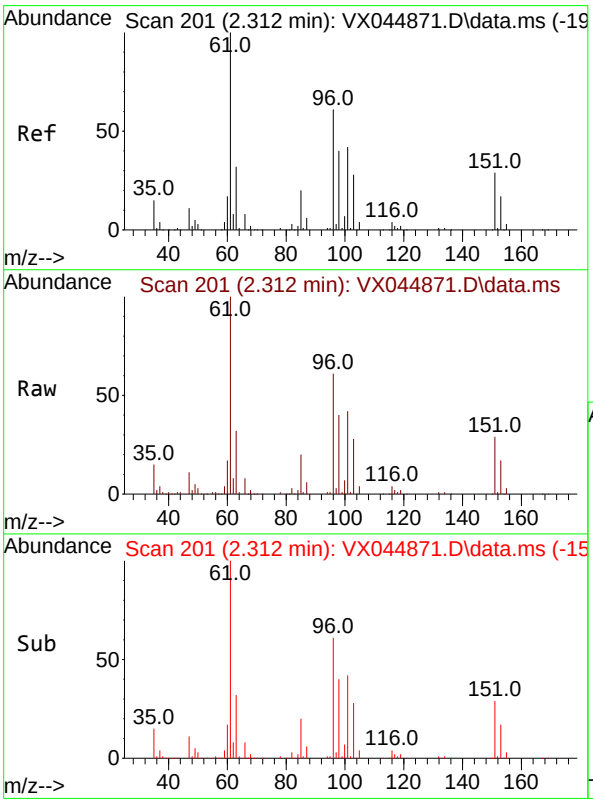
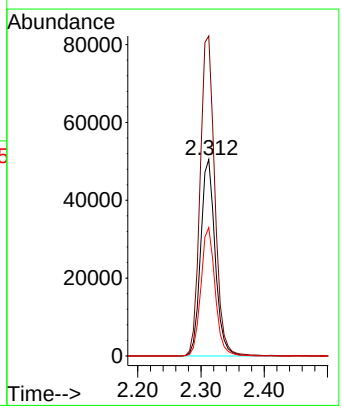
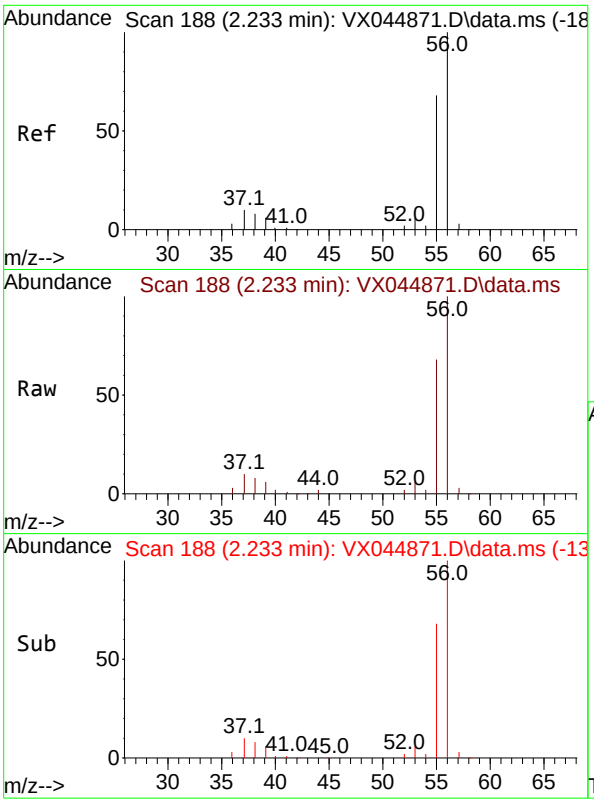


#12
1,1-Dichloroethene
Concen: 48.904 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 80672

Ion	Ratio	Lower	Upper
96	100		
61	162.8	130.2	195.4
98	65.3	52.2	78.4

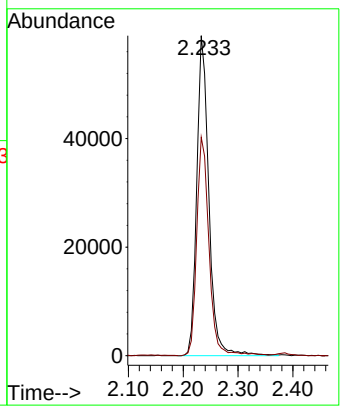




#13
Acrolein
Concen: 252.426 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 56 Resp: 9051

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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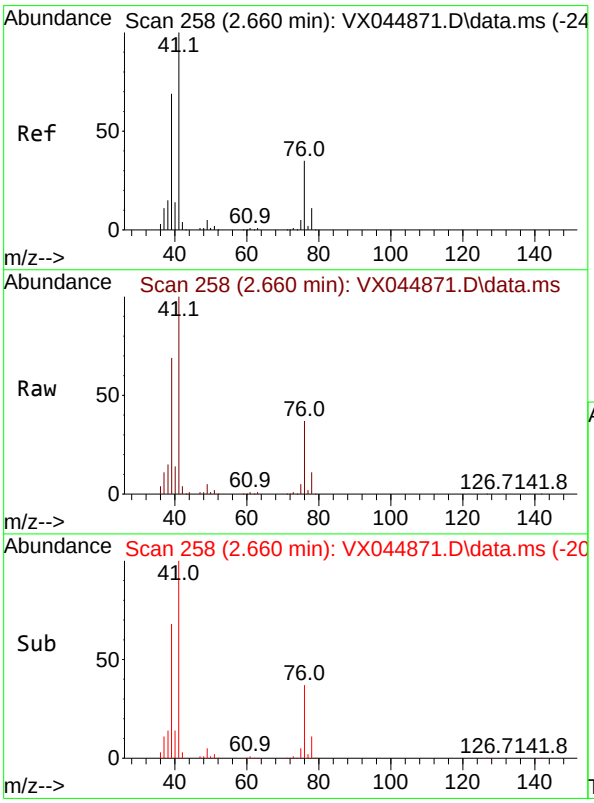
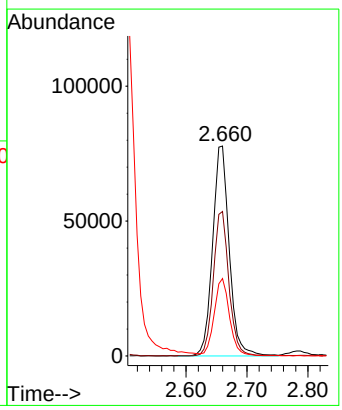
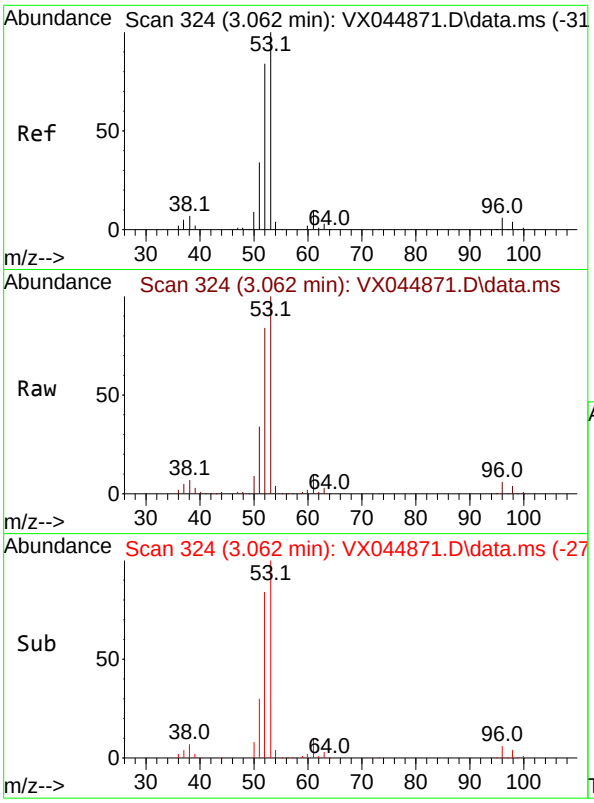


#14
Allyl chloride
Concen: 49.658 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 148044

Ion	Ratio	Lower	Upper
41	100		
39	64.3	51.4	77.2
76	33.7	27.0	40.4

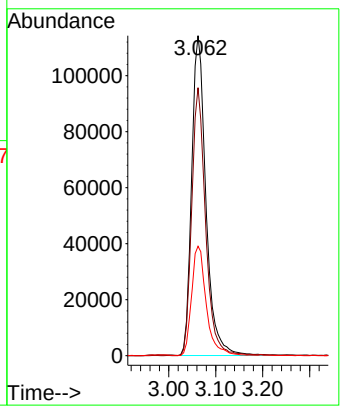




#15
Acrylonitrile
Concen: 261.074 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 53 Resp: 24226

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	35.0	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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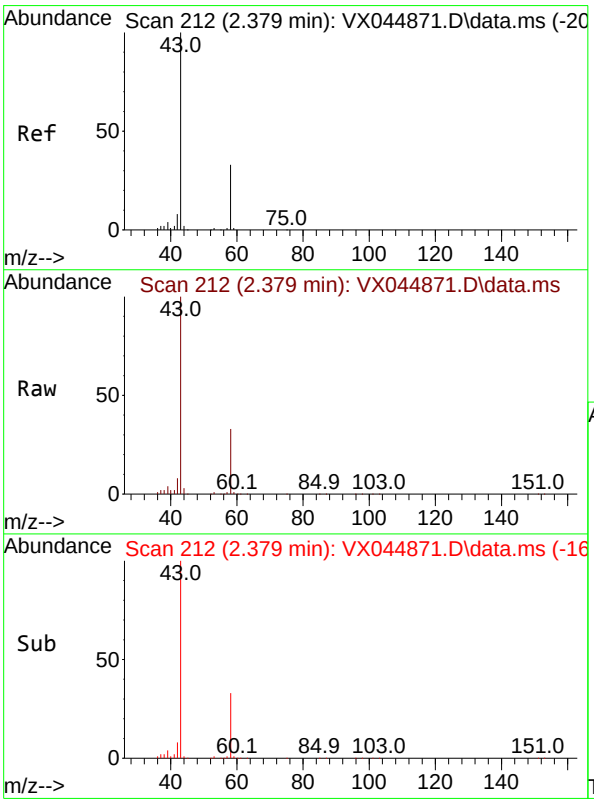
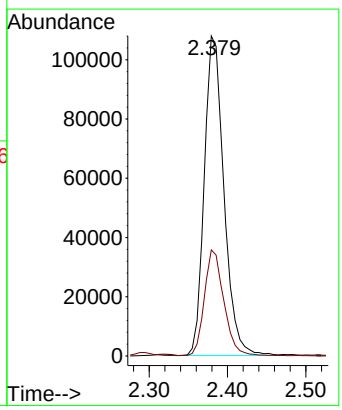
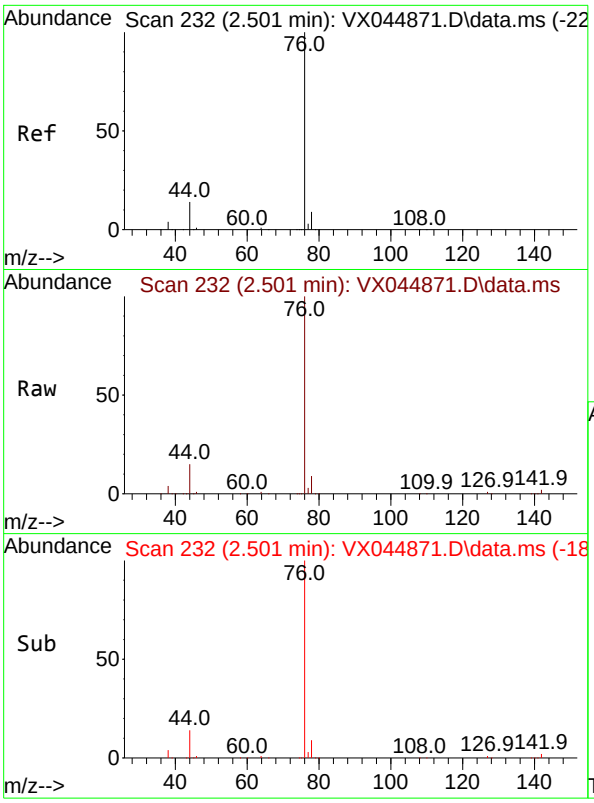


#16
Acetone
Concen: 249.274 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 187739

Ion	Ratio	Lower	Upper
43	100		
58	33.1	26.5	39.7

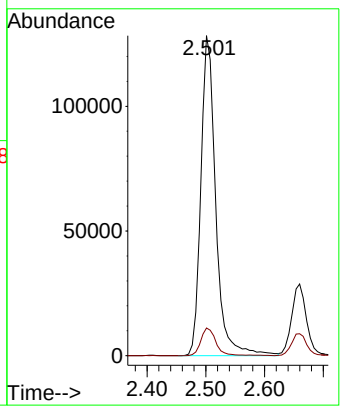




#17
Carbon Disulfide
Concen: 49.853 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 76 Resp: 22551

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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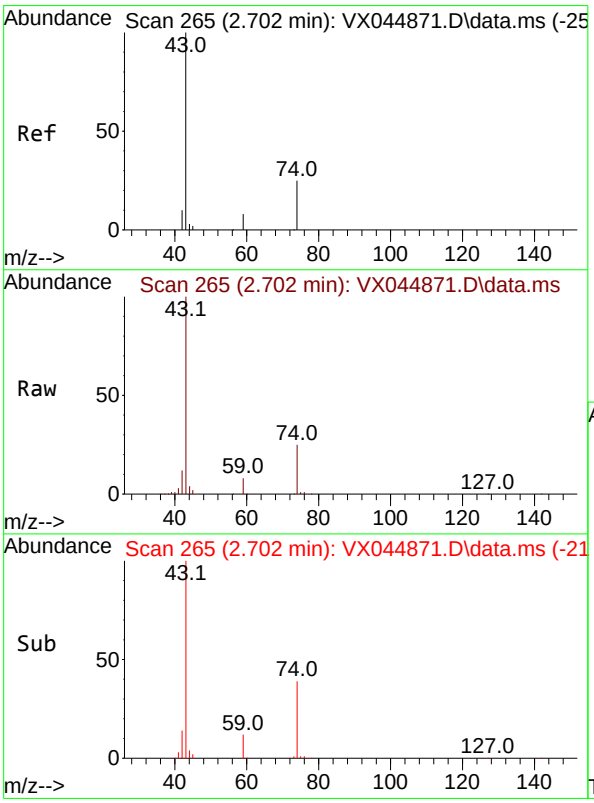
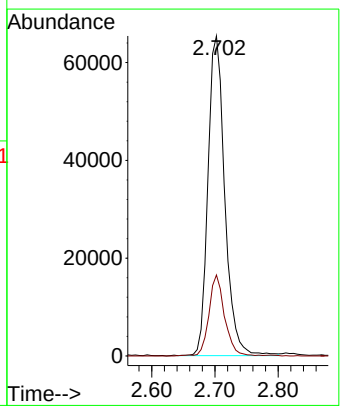
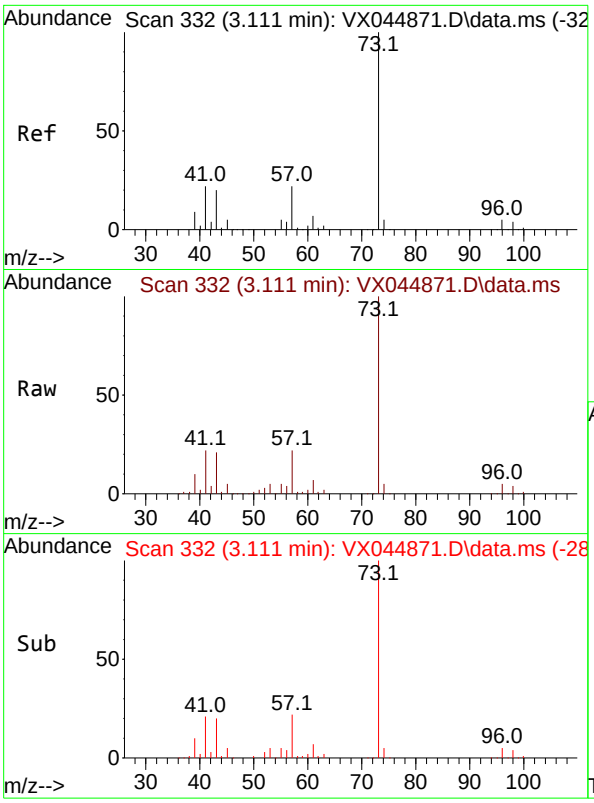


#18
Methyl Acetate
Concen: 50.928 ug/l
RT: 2.702 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 121039

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.9	28.3

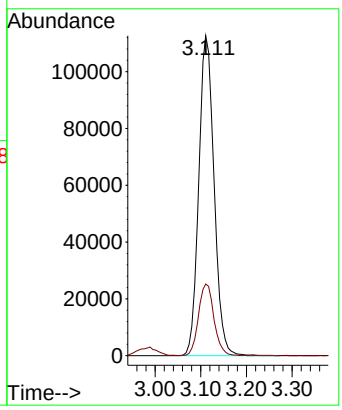




#19
Methyl tert-butyl Ether
Concen: 49.890 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 73 Resp: 26185

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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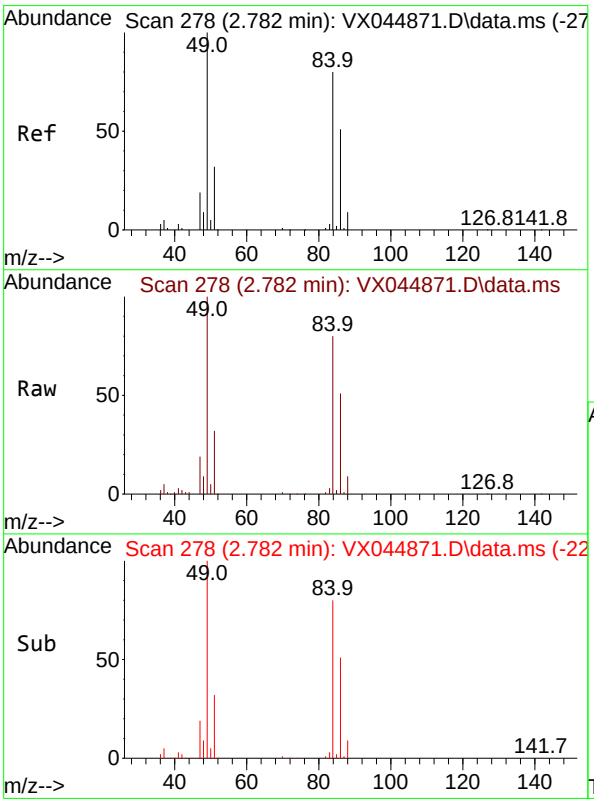
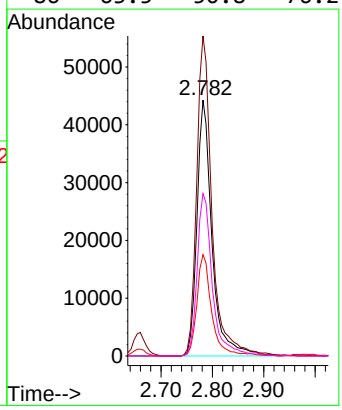
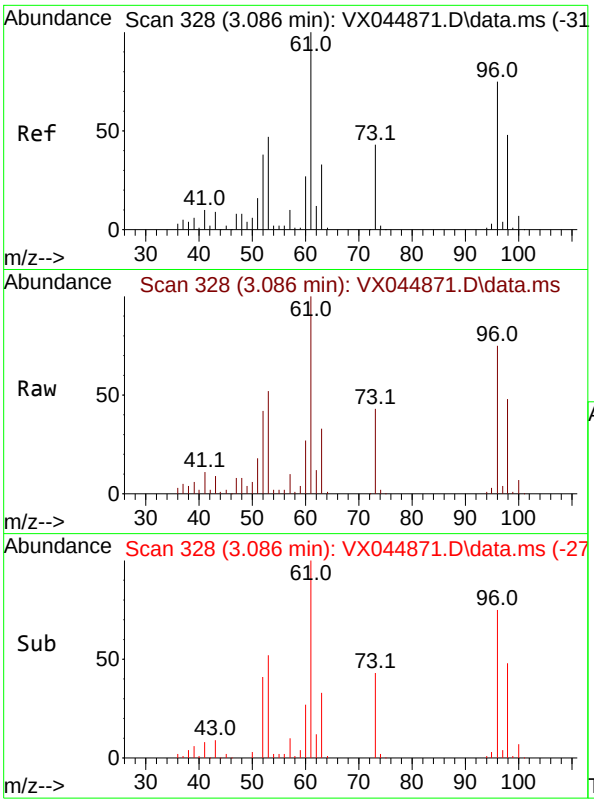


#20
Methylene Chloride
Concen: 48.808 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 84 Resp: 90038

Ion	Ratio	Lower	Upper
84	100		
49	125.1	100.1	150.1
51	39.6	31.7	47.5
86	63.5	50.8	76.2

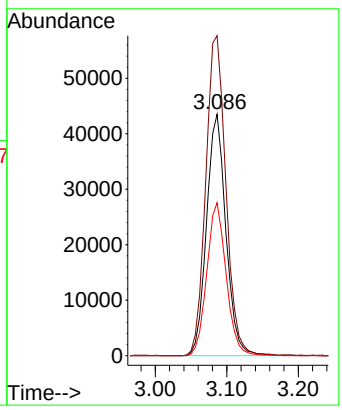




#21
trans-1,2-Dichloroethene
Concen: 50.475 ug/l
RT: 3.086 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 8195

Ion	Ratio	Lower	Upper
96	100		
61	132.5	106.0	159.0
98	63.3	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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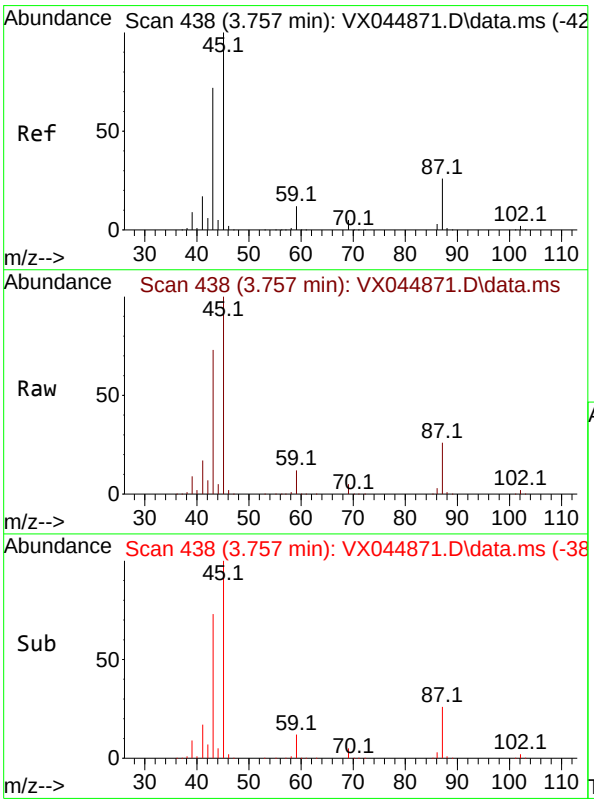
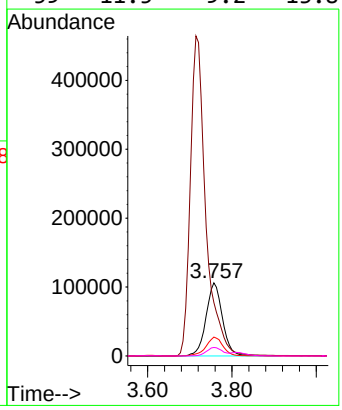
Supervised By :Mahesh Dadoda 02/11/2025

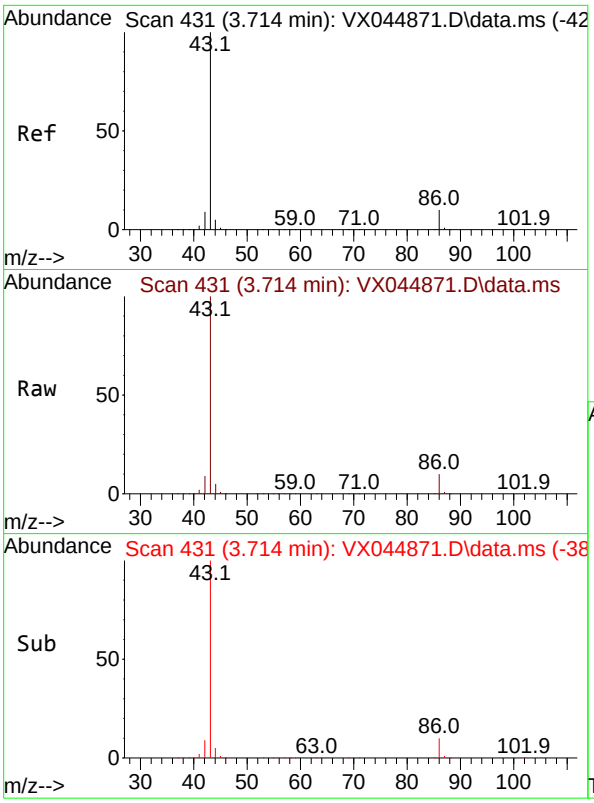


#22
Diisopropyl ether
Concen: 50.946 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 45 Resp: 287347

Ion	Ratio	Lower	Upper
45	100		
43	72.5	58.0	87.0
87	25.9	20.7	31.1
59	11.5	9.2	13.8





#23
Vinyl Acetate
Concen: 258.830 ug/l
RT: 3.714 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 119015

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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Reviewed By :John Carlone 02/11/2025
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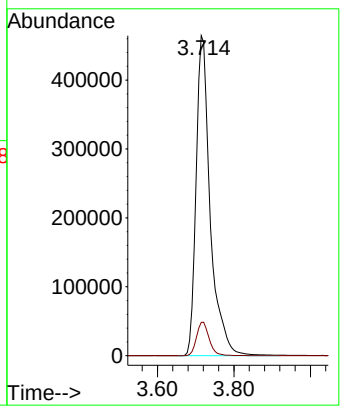
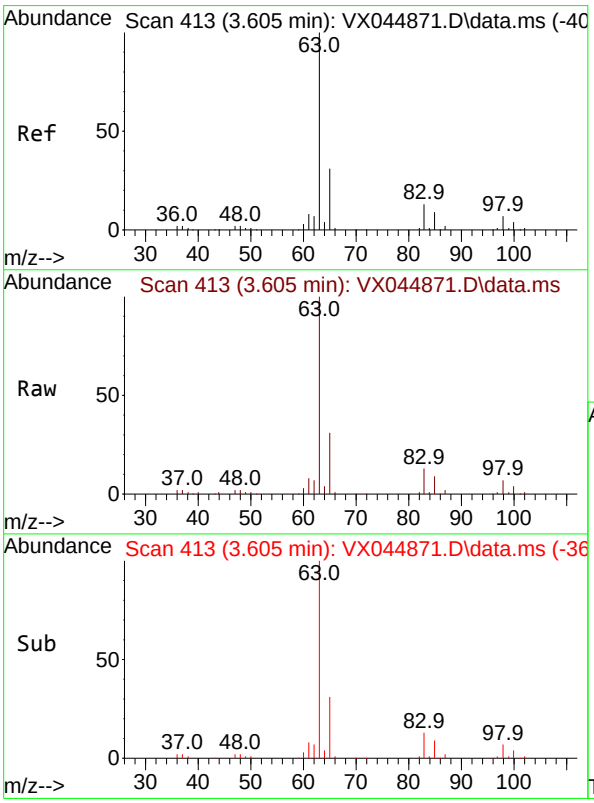
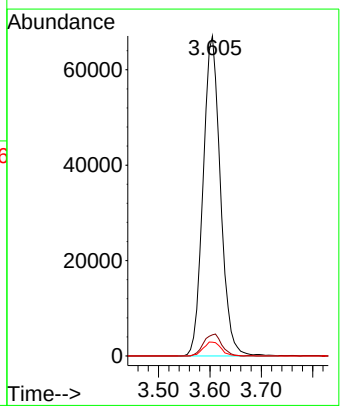


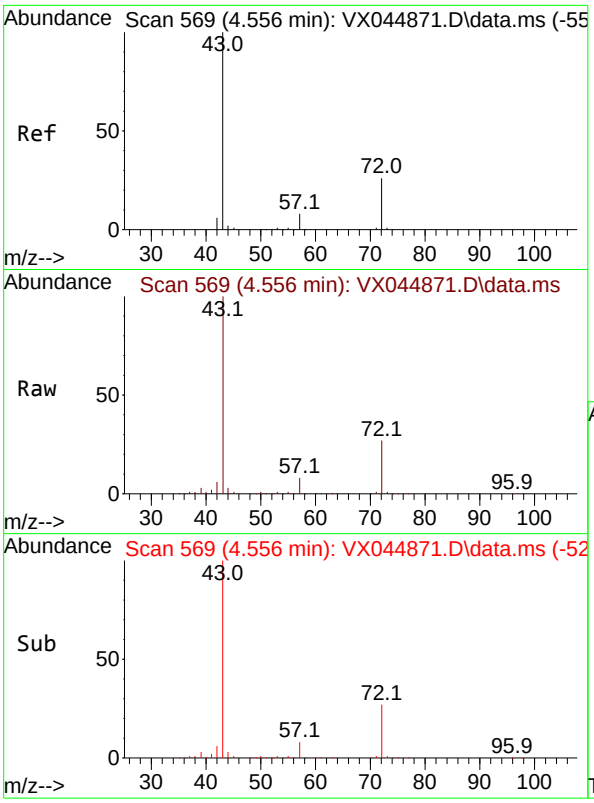


#24
1,1-Dichloroethane
Concen: 49.749 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 157003

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	4.3	2.1	6.5

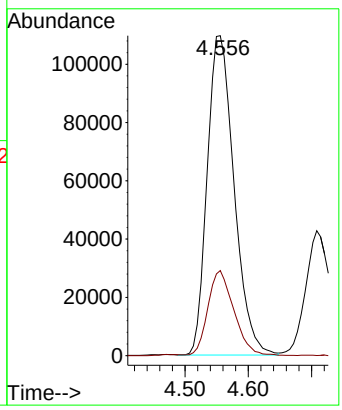




#25
2-Butanone
Concen: 264.528 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 32351

Ion	Ratio	Lower	Upper
43	100		
72	26.5	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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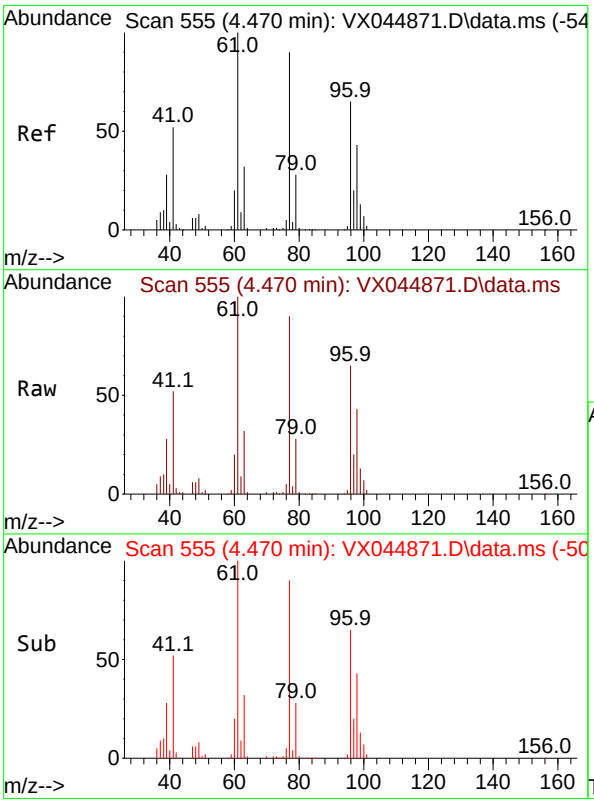
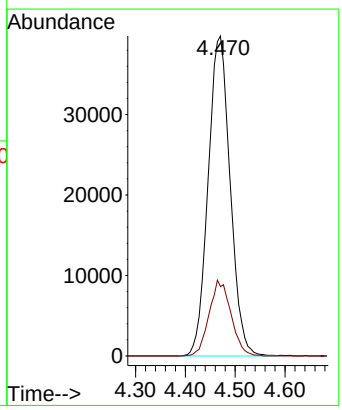
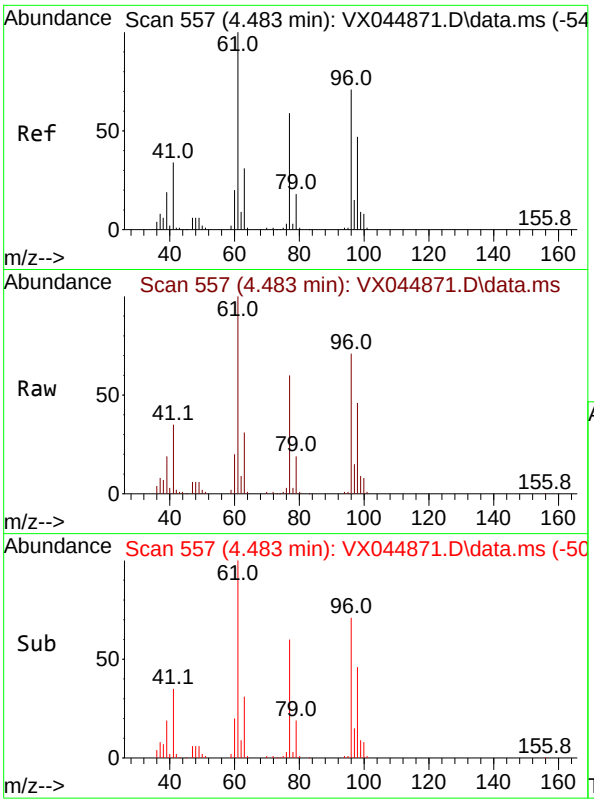


#26
2,2-Dichloropropane
Concen: 48.707 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 77 Resp: 121901

Ion	Ratio	Lower	Upper
77	100		
97	23.5	11.8	35.3

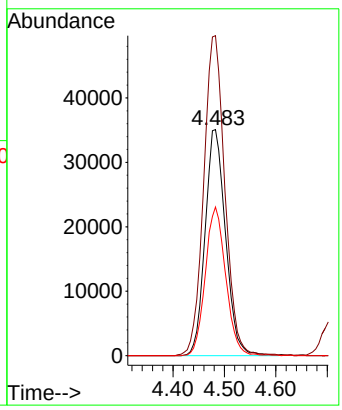




#27
cis-1,2-Dichloroethene
Concen: 49.721 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 9696

Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	294.0
98	65.6	0.0	131.2



Instrument :
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ClientSampleId :
VSTDICCC050

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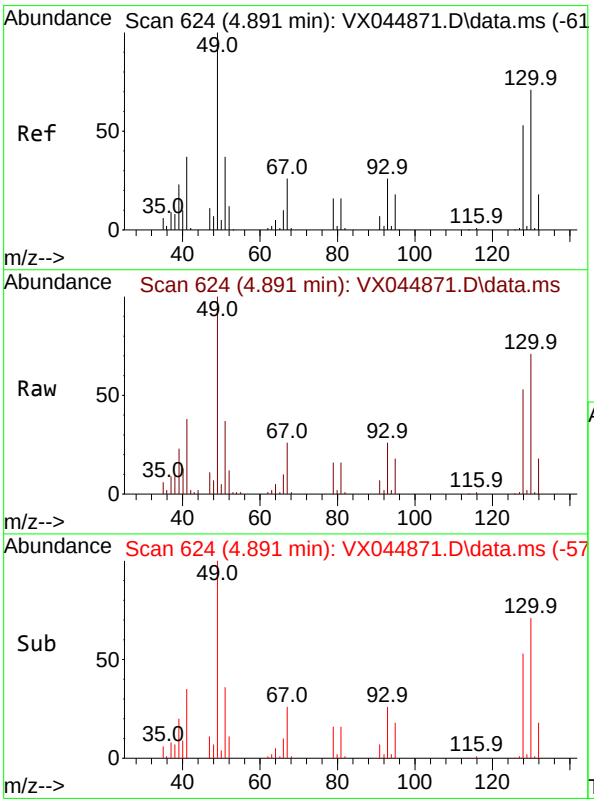
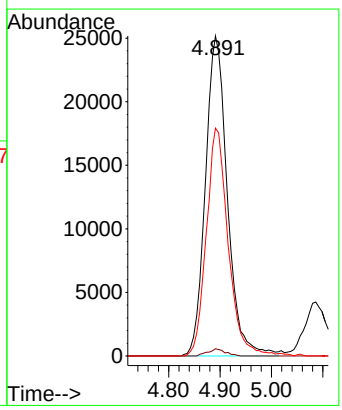
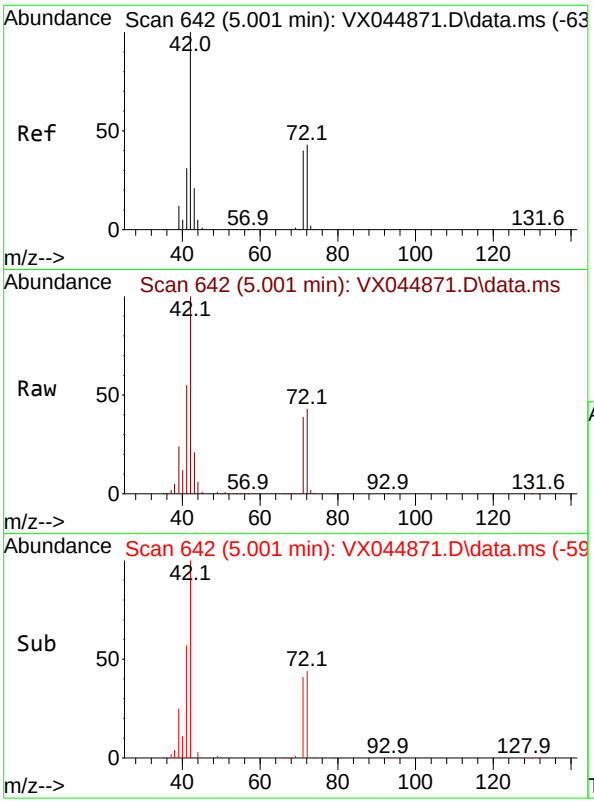


#28
Bromochloromethane
Concen: 49.258 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 49 Resp: 74707

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	70.9	56.7	85.1





#29
Tetrahydrofuran
Concen: 259.105 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 42 Resp: 21041

Ion	Ratio	Lower	Upper
42	100		
72	43.7	35.0	52.4
71	40.7	32.6	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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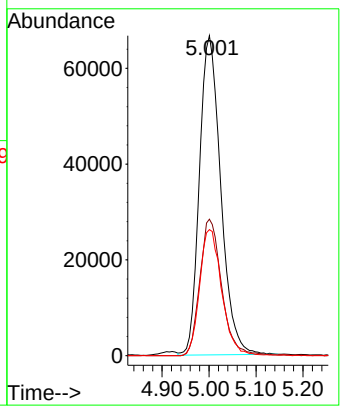
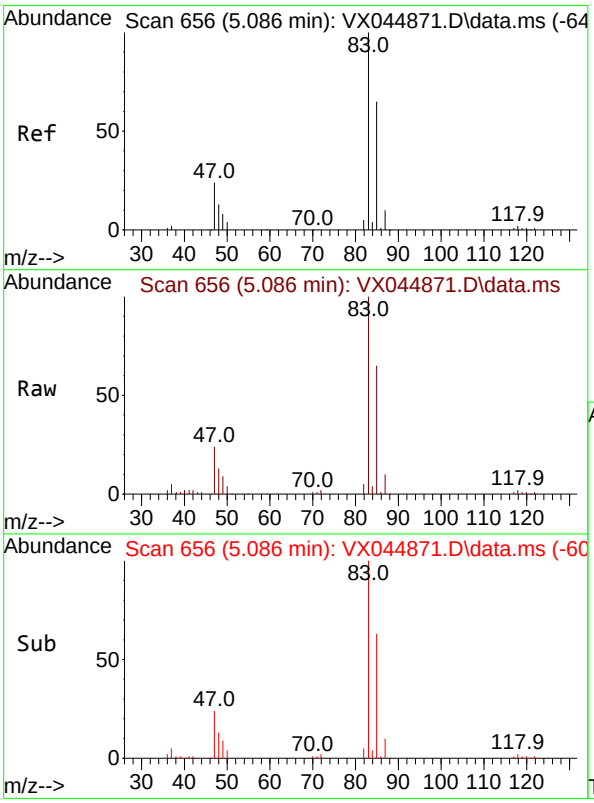
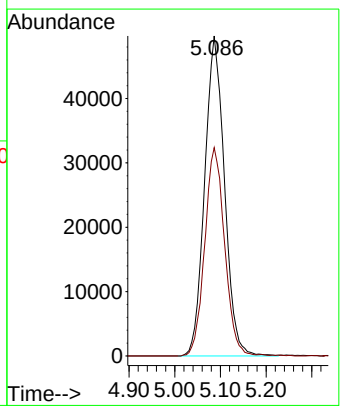


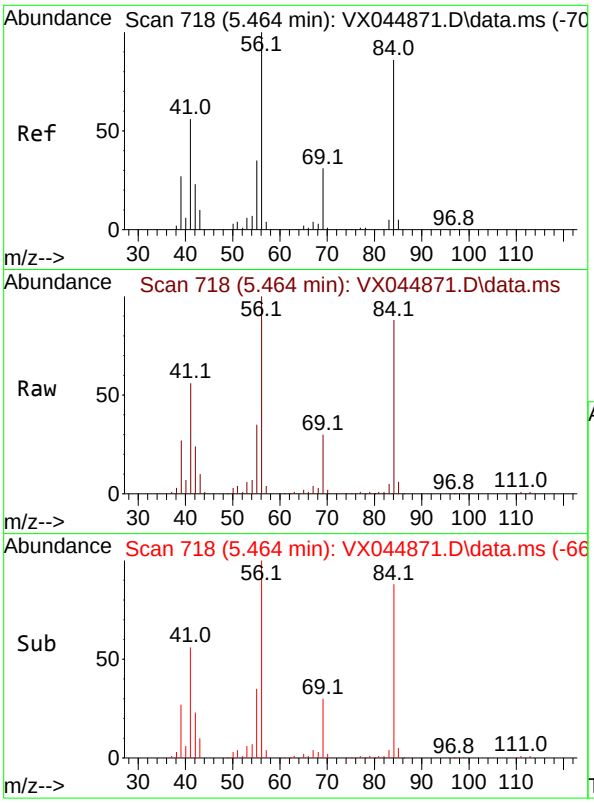


#30
Chloroform
Concen: 48.874 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 149581

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1

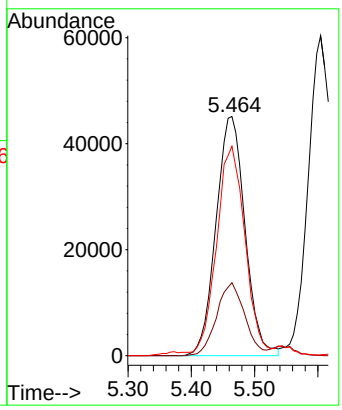




#31
Cyclohexane
Concen: 49.322 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 56 Resp: 14350

Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.4	36.6
84	86.3	69.0	103.6



Instrument :
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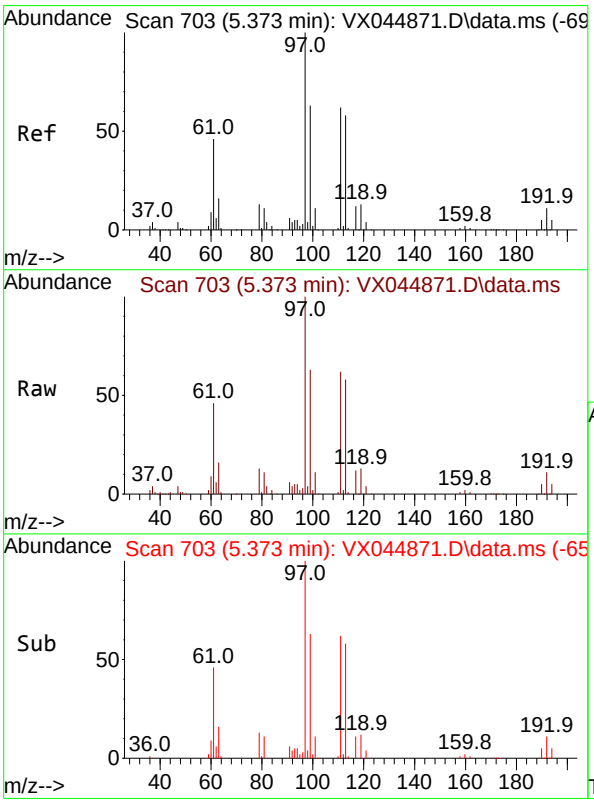
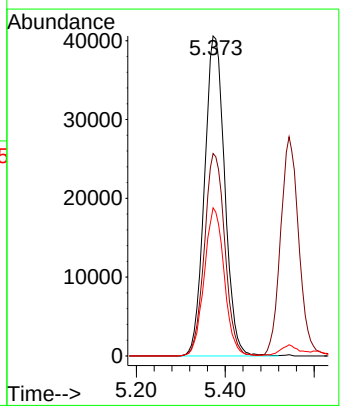
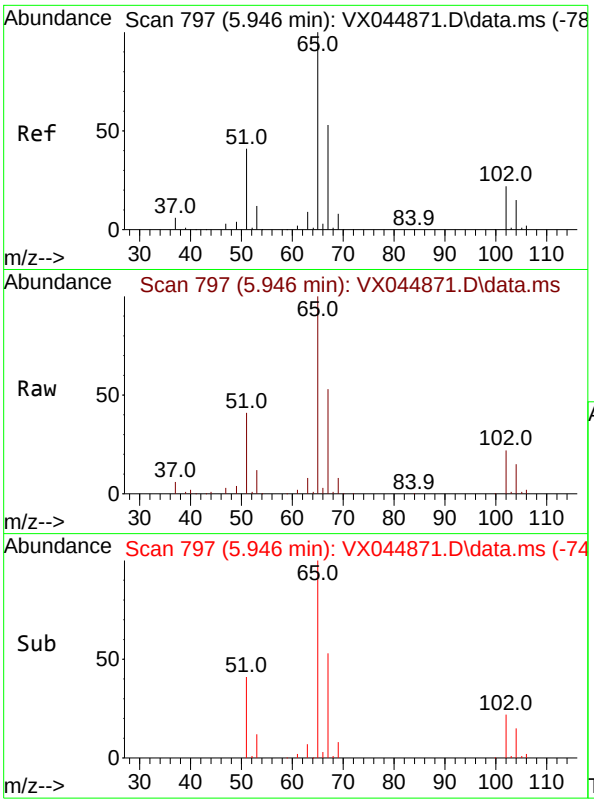


#32
1,1,1-Trichloroethane
Concen: 49.523 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 97 Resp: 128561

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.8	36.6	55.0

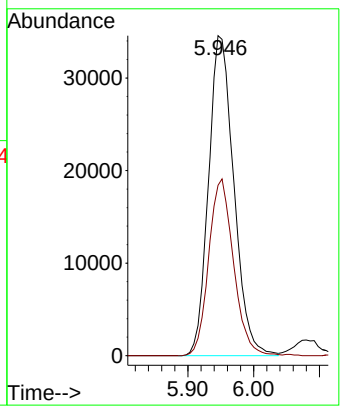




#33
1,2-Dichloroethane-d4
Concen: 49.424 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 65 Resp: 9259

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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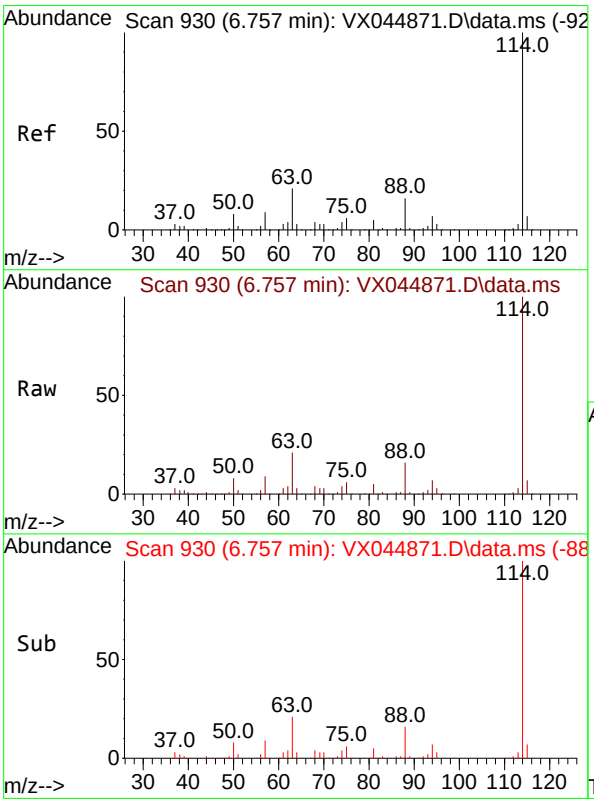
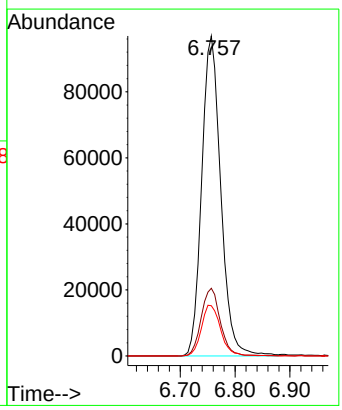
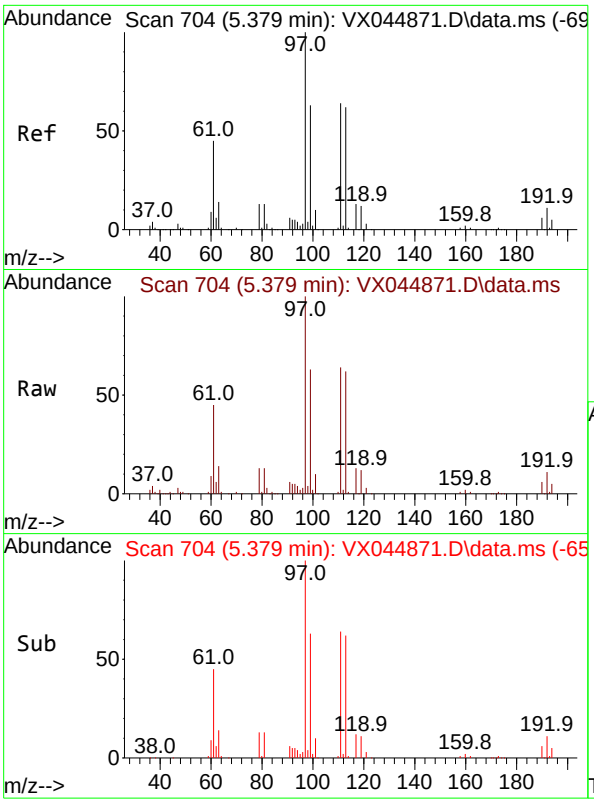


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:114 Resp: 233736

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	15.7	0.0	31.4

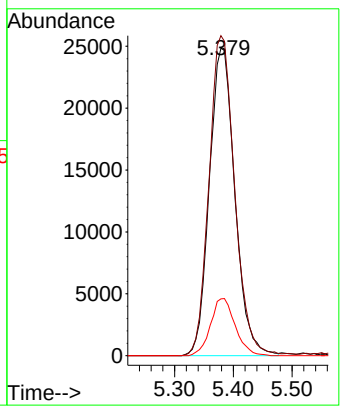




#35
Dibromofluoromethane
Concen: 49.291 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:113 Resp: 7490

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	18.0	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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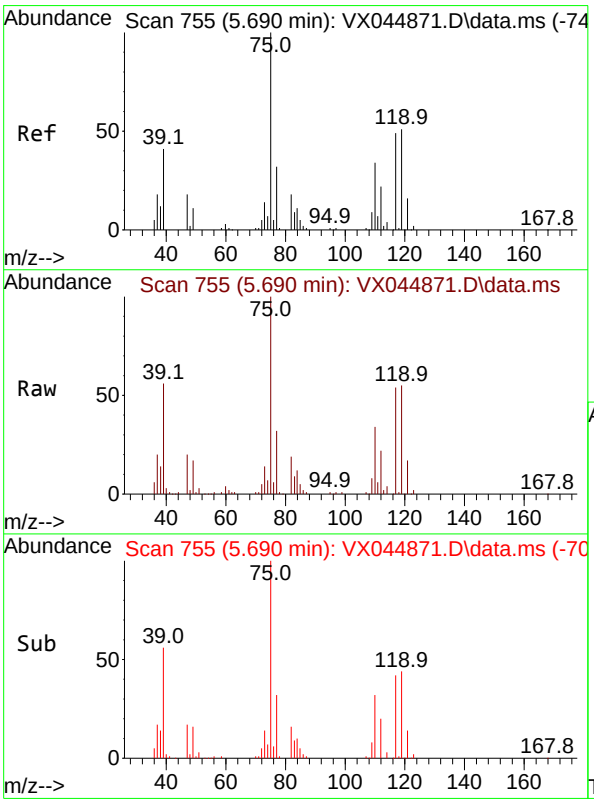
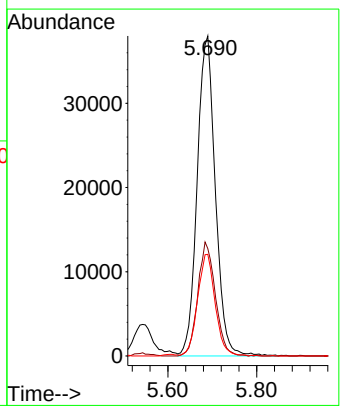
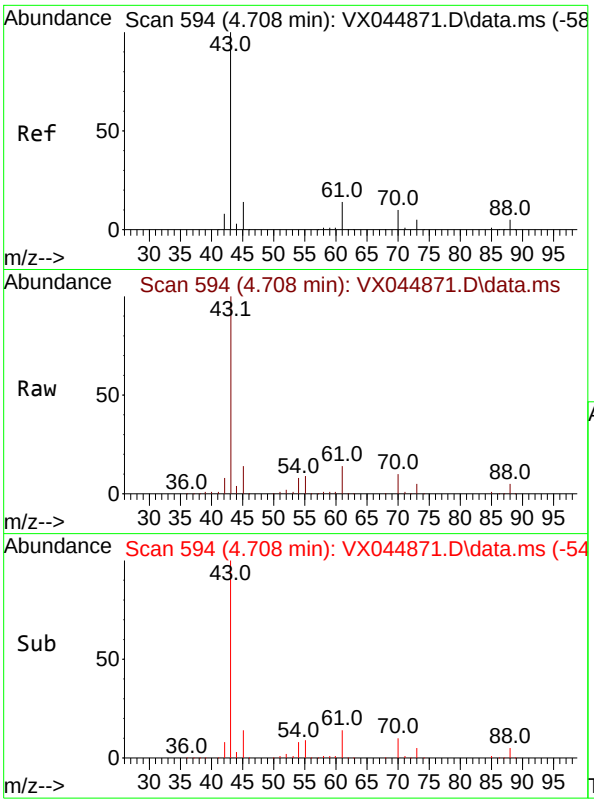


#36
1,1-Dichloropropene
Concen: 49.353 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 108206

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.8	24.6	37.0

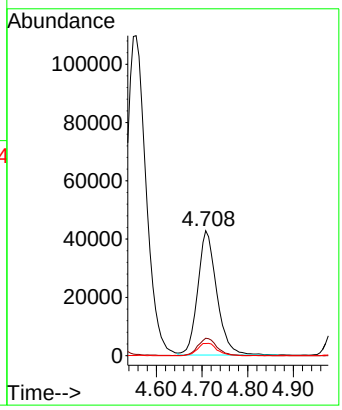




#37
Ethyl Acetate
Concen: 50.535 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 12323

Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.4
70	10.2	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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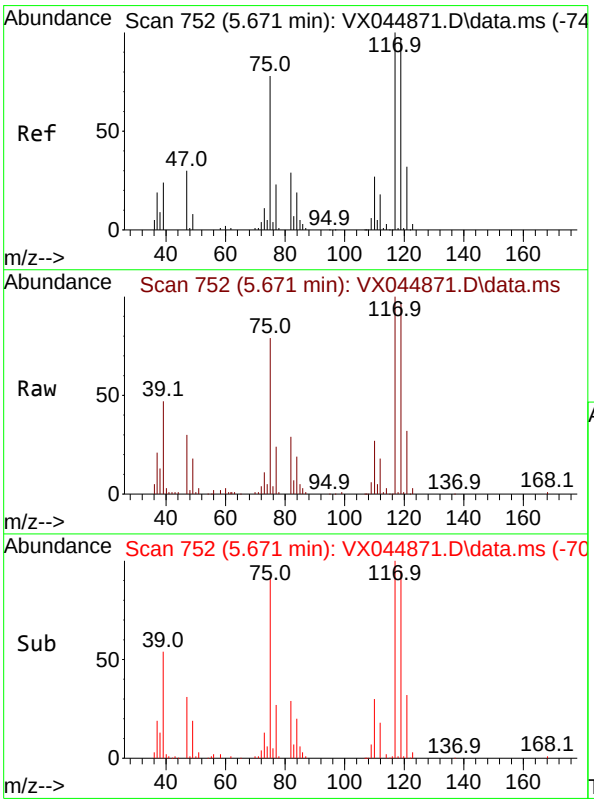
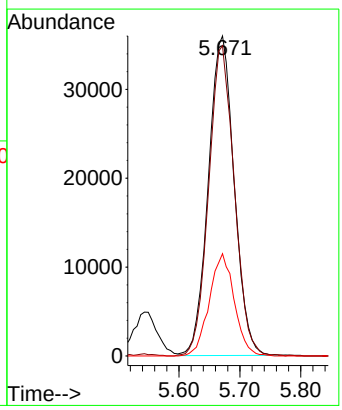
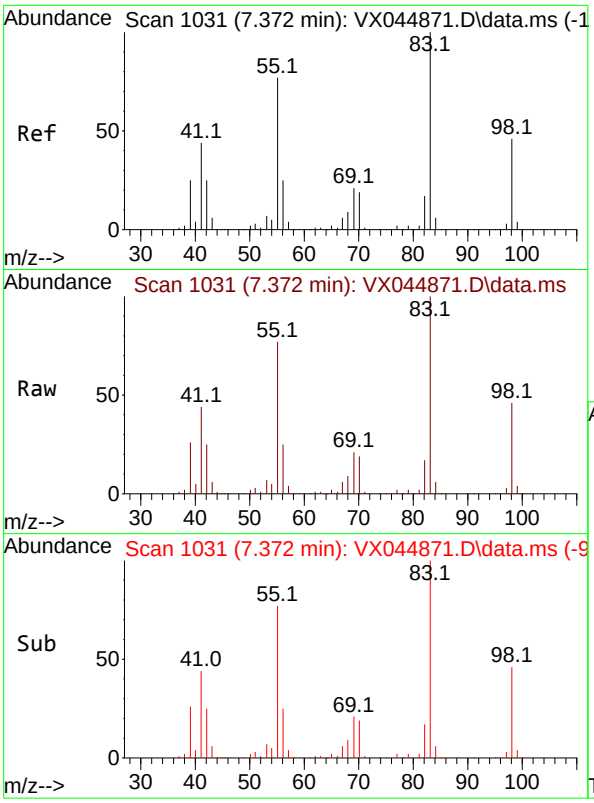


#38
Carbon Tetrachloride
Concen: 49.277 ug/l
RT: 5.671 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 105873

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.5	116.3
121	32.0	25.6	38.4

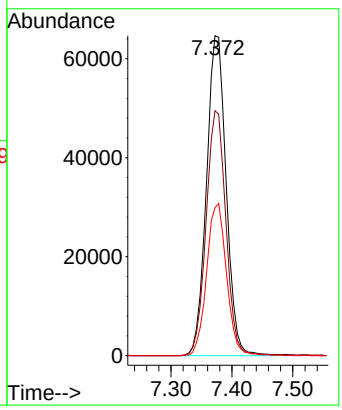




#39
Methylcyclohexane
Concen: 51.274 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 14533

Ion	Ratio	Lower	Upper
83	100		
55	76.6	61.3	91.9
98	46.3	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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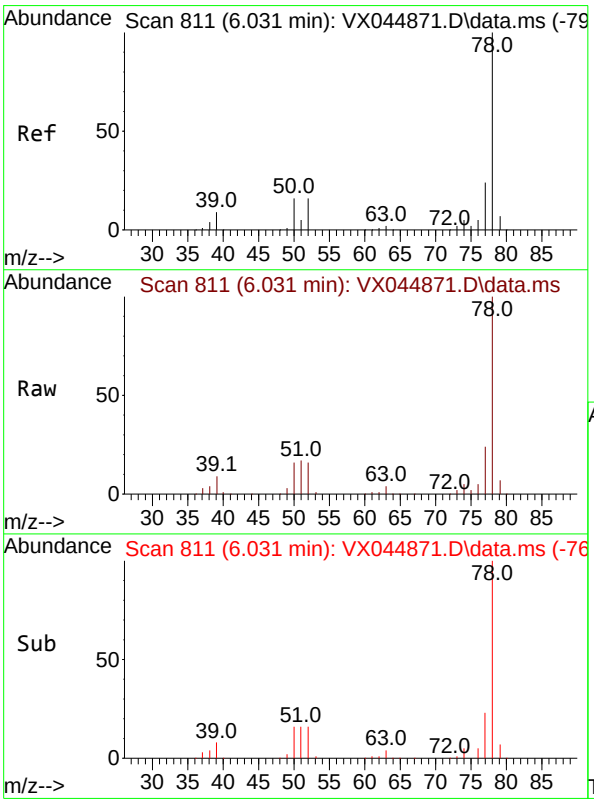
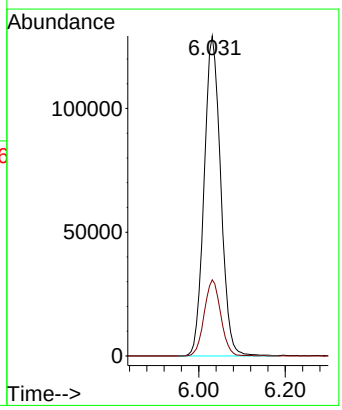
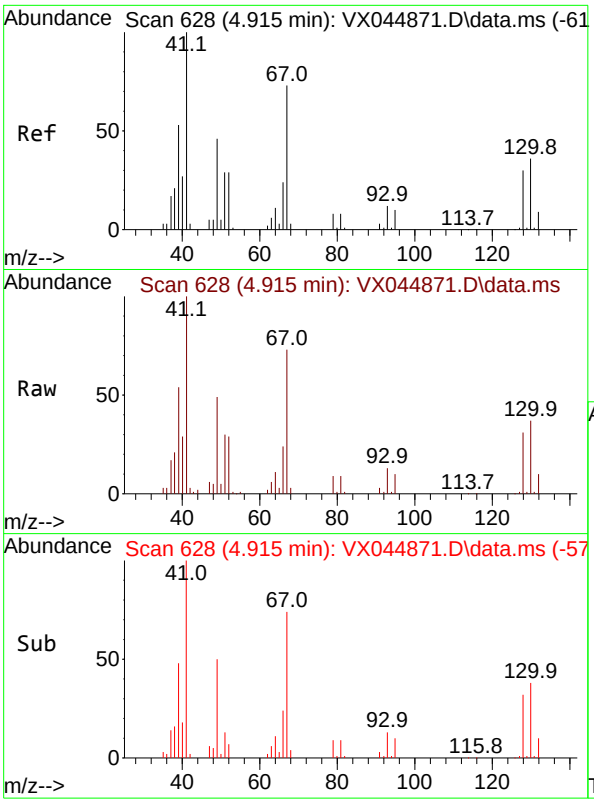


#40
Benzene
Concen: 50.182 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 78 Resp: 343557

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6

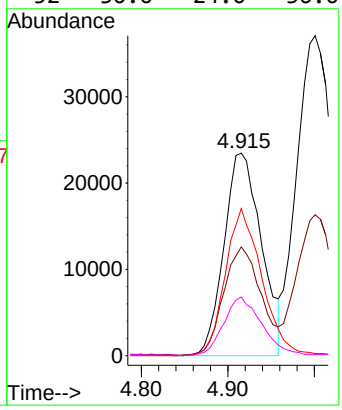




#41
Methacrylonitrile
Concen: 54.065 ug/l
RT: 4.915 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 7057

Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.1	64.7
67	71.3	57.0	85.6
52	30.0	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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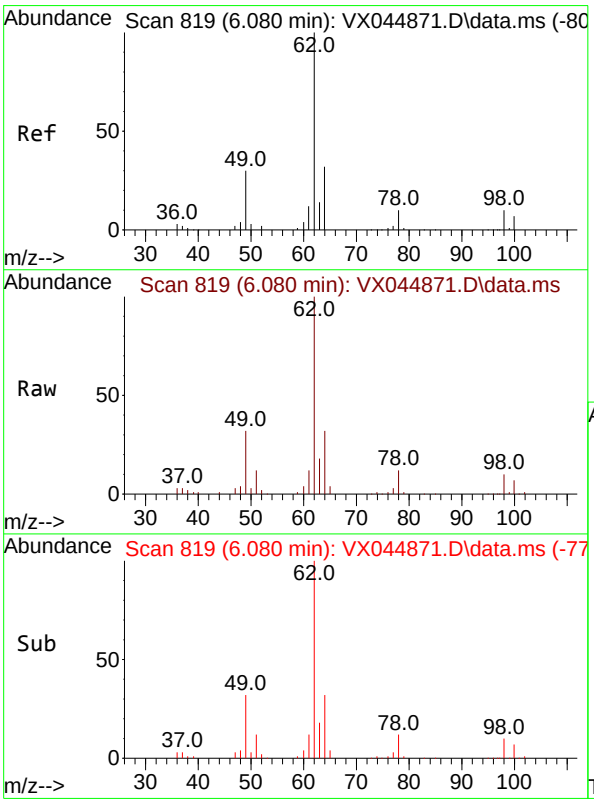
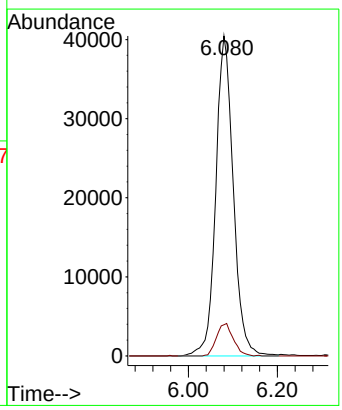
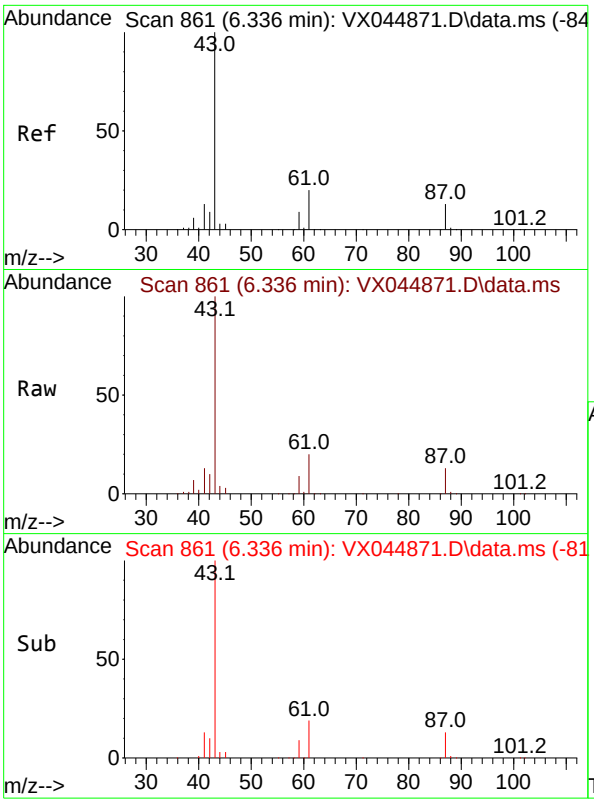


#42
1,2-Dichloroethane
Concen: 50.573 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 110347

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4

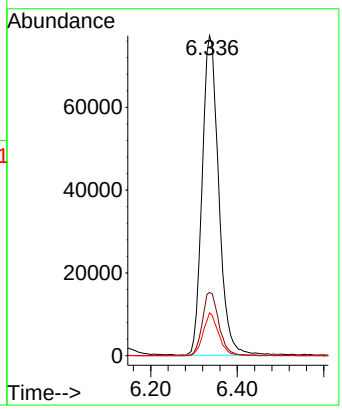




#43
Isopropyl Acetate
Concen: 51.981 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 20470

Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.8	23.8
87	12.5	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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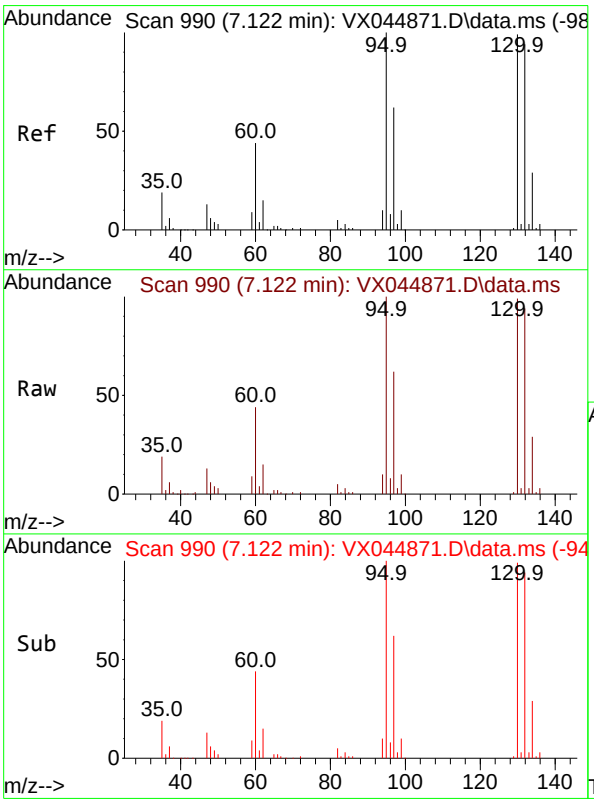
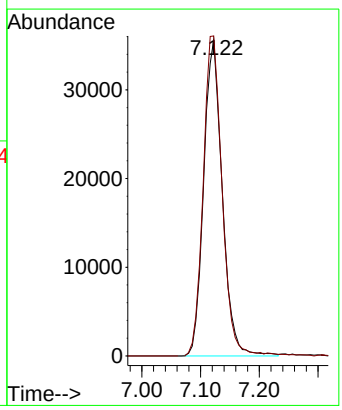
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

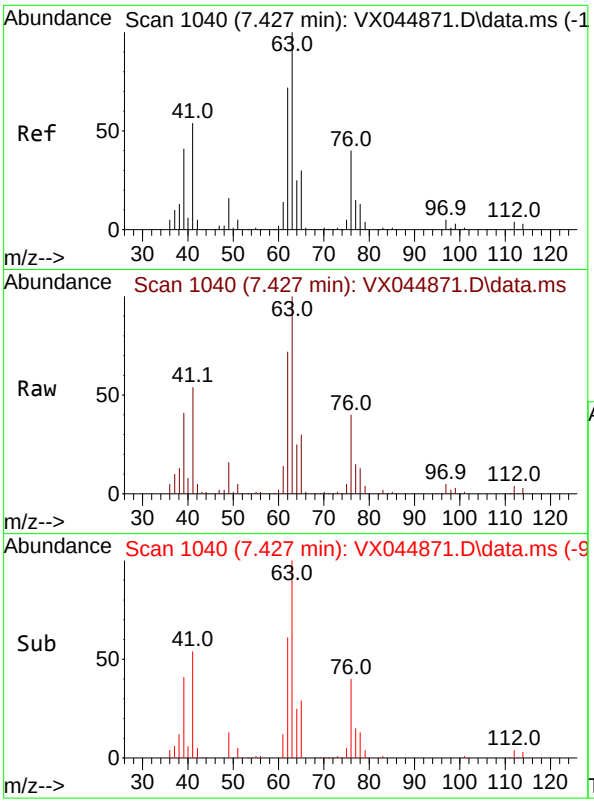


#44
Trichloroethene
Concen: 50.020 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:130 Resp: 78274

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	202.4

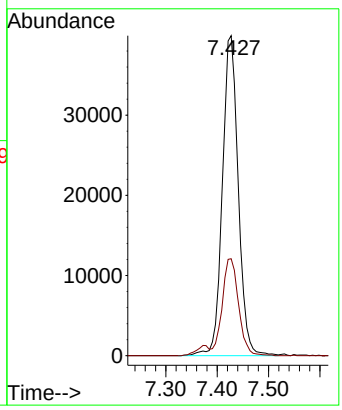




#45
1,2-Dichloropropane
Concen: 50.335 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 8573

Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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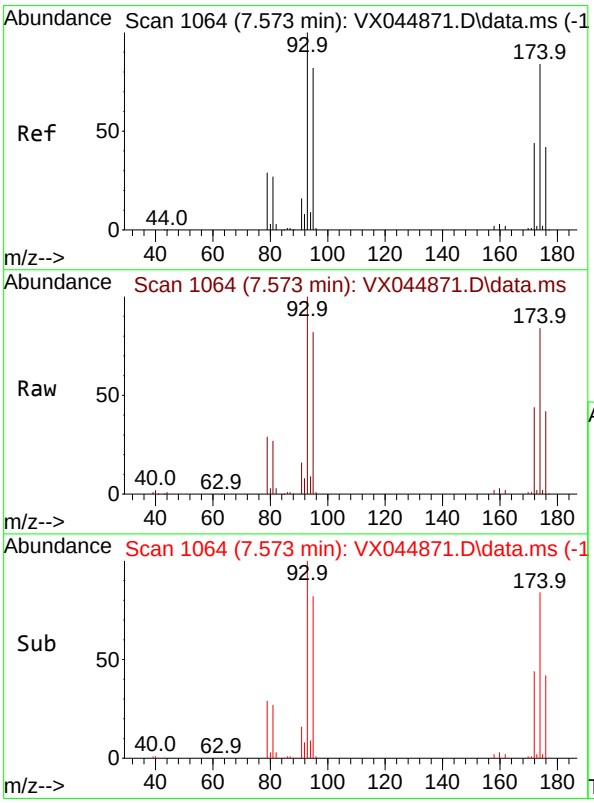
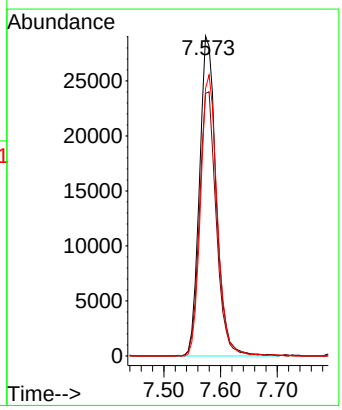
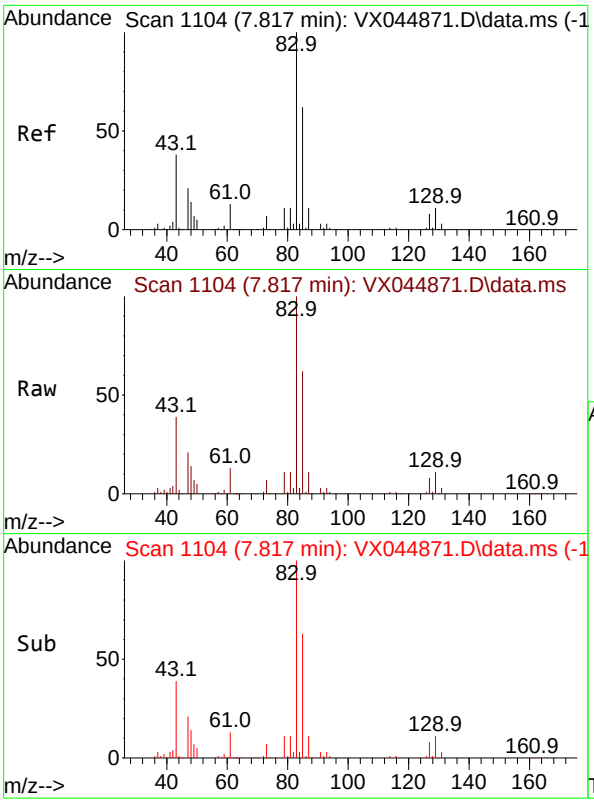


#46
Dibromomethane
Concen: 50.479 ug/l
RT: 7.573 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 93 Resp: 59625

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.4
174	87.4	69.9	104.9

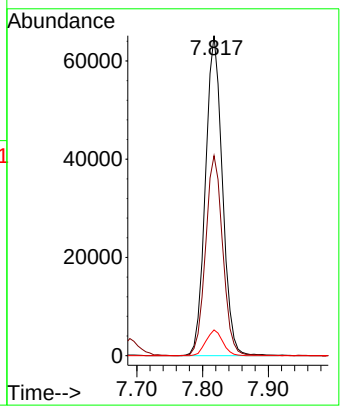




#47
Bromodichloromethane
Concen: 51.108 ug/l
RT: 7.817 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 11689

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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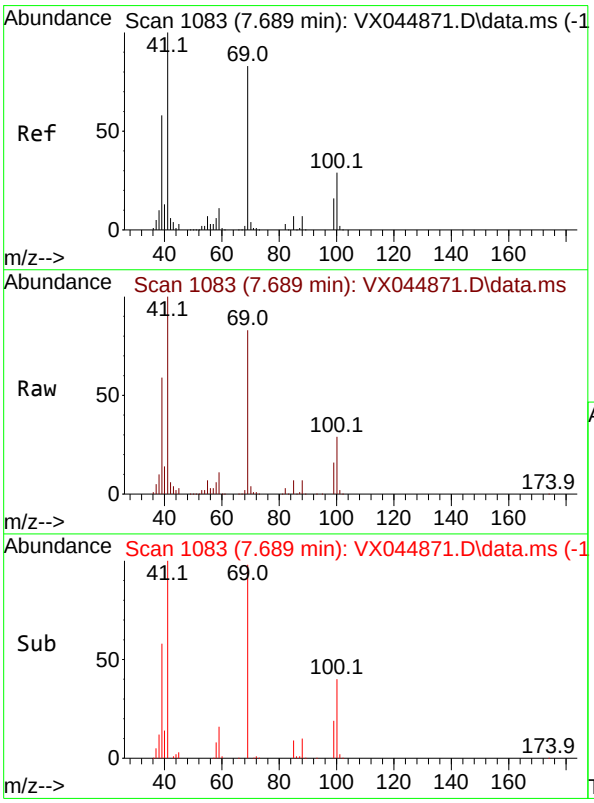
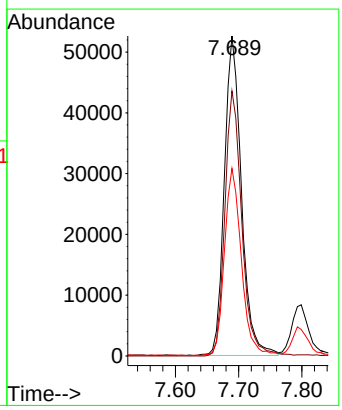
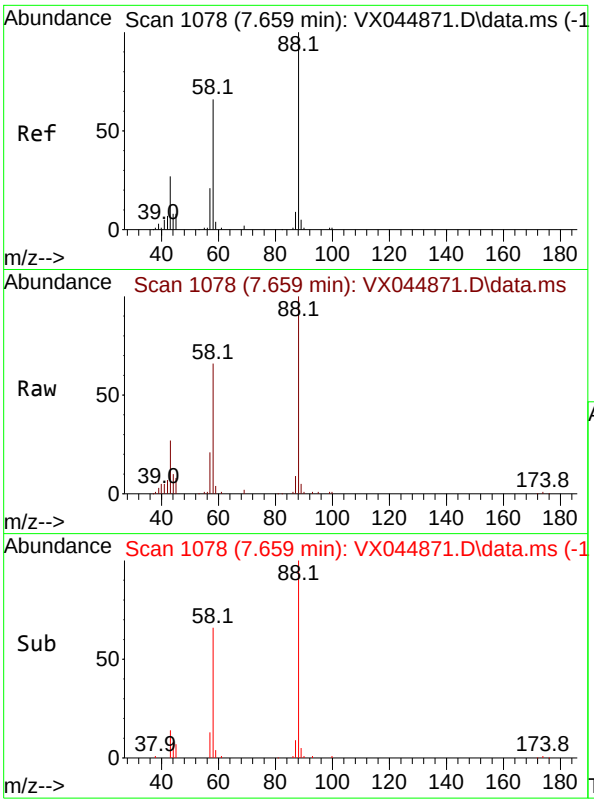


#48
Methyl methacrylate
Concen: 53.057 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 98519

Ion	Ratio	Lower	Upper
41	100		
69	82.3	65.8	98.8
39	58.0	46.4	69.6

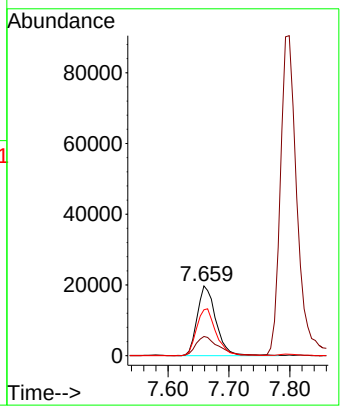




#49
1,4-Dioxane
Concen: 1056.618 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 88 Resp: 4209

Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.6	39.8
58	69.9	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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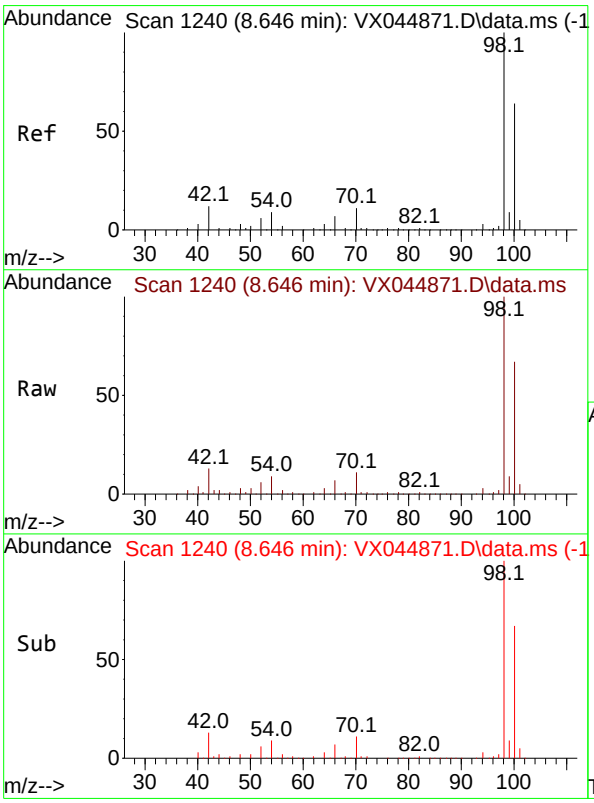
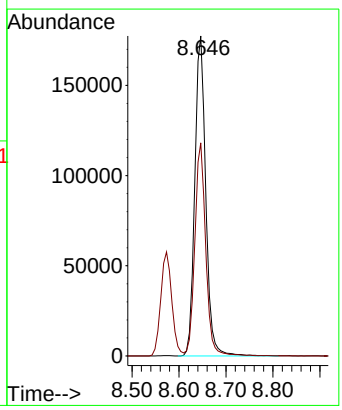
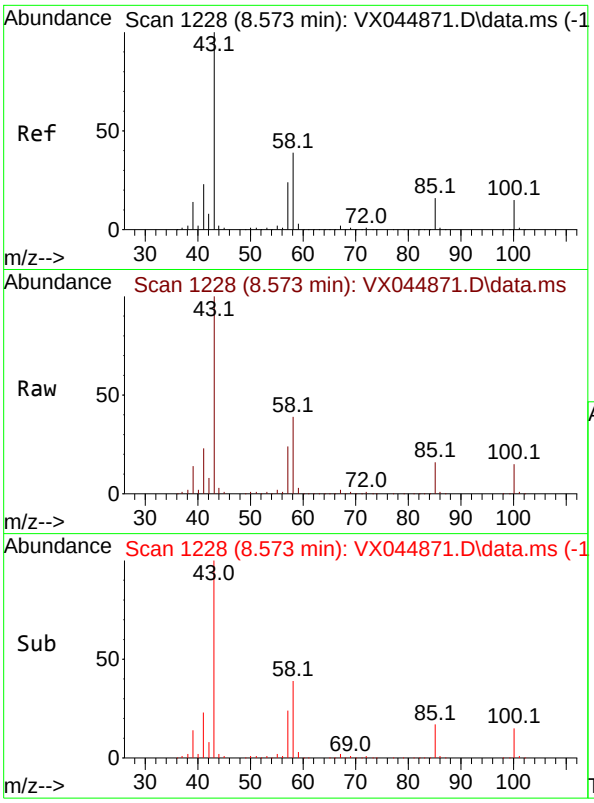


#50
Toluene-d8
Concen: 50.392 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 98 Resp: 289575

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1

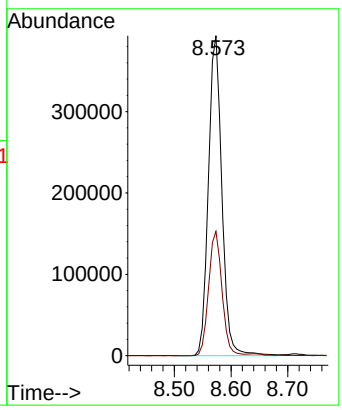




#51
4-Methyl-2-Pentanone
Concen: 270.364 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 64728

Ion	Ratio	Lower	Upper
43	100		
58	38.5	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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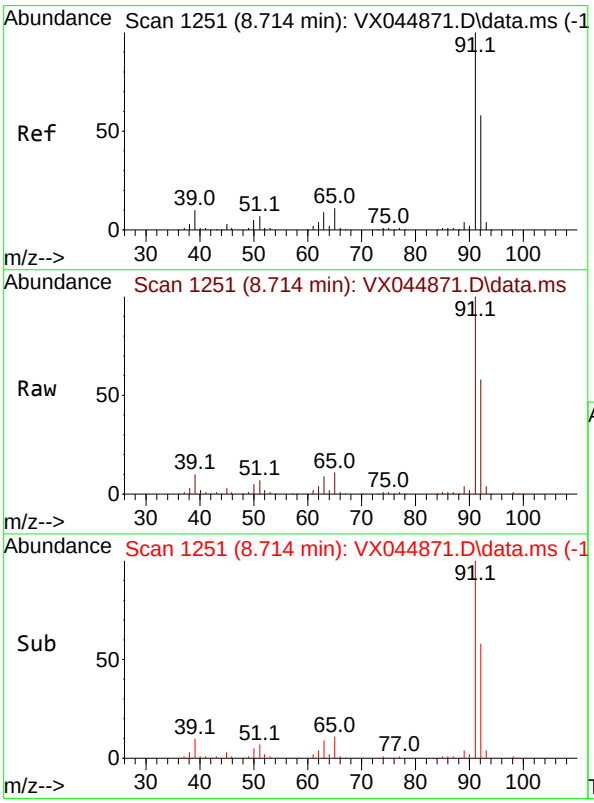
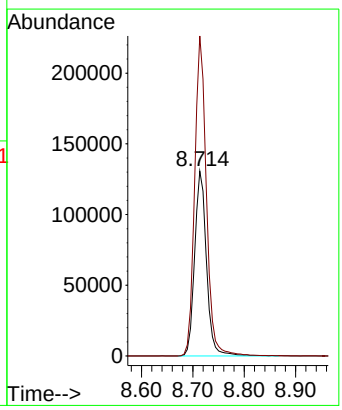
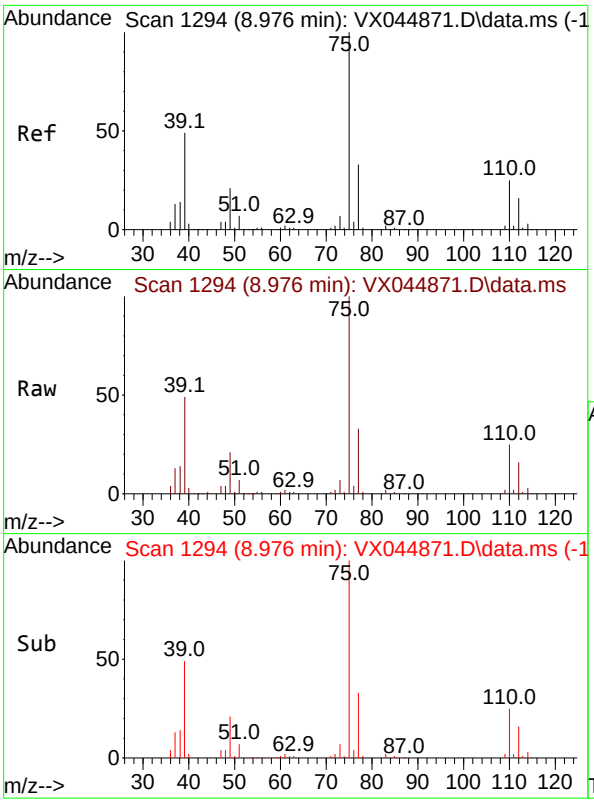


#52
Toluene
Concen: 51.507 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 92 Resp: 210007

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.4	206.2

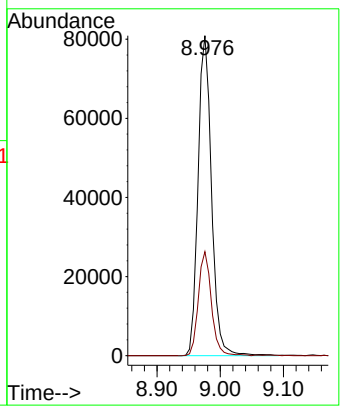




#53
t-1,3-Dichloropropene
Concen: 51.902 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 12012

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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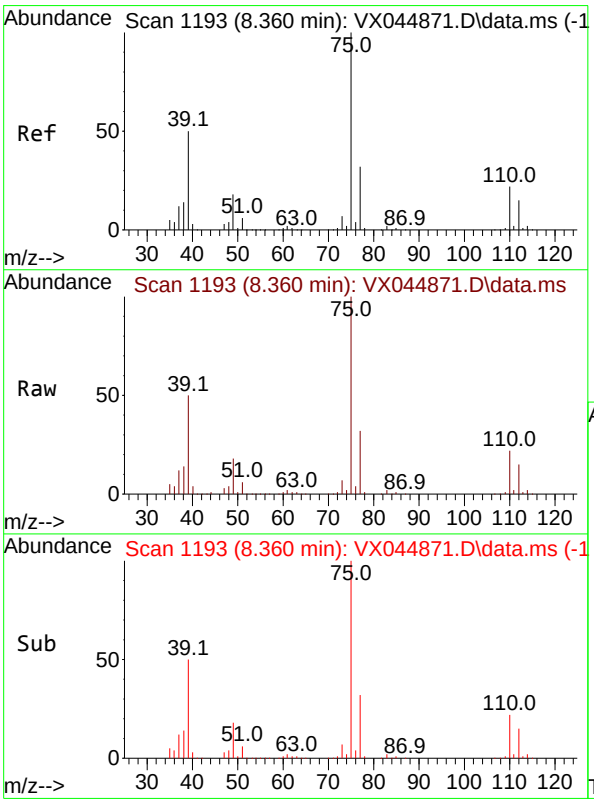
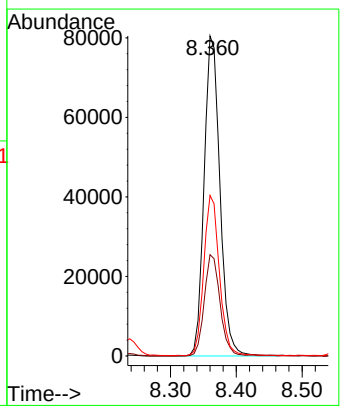
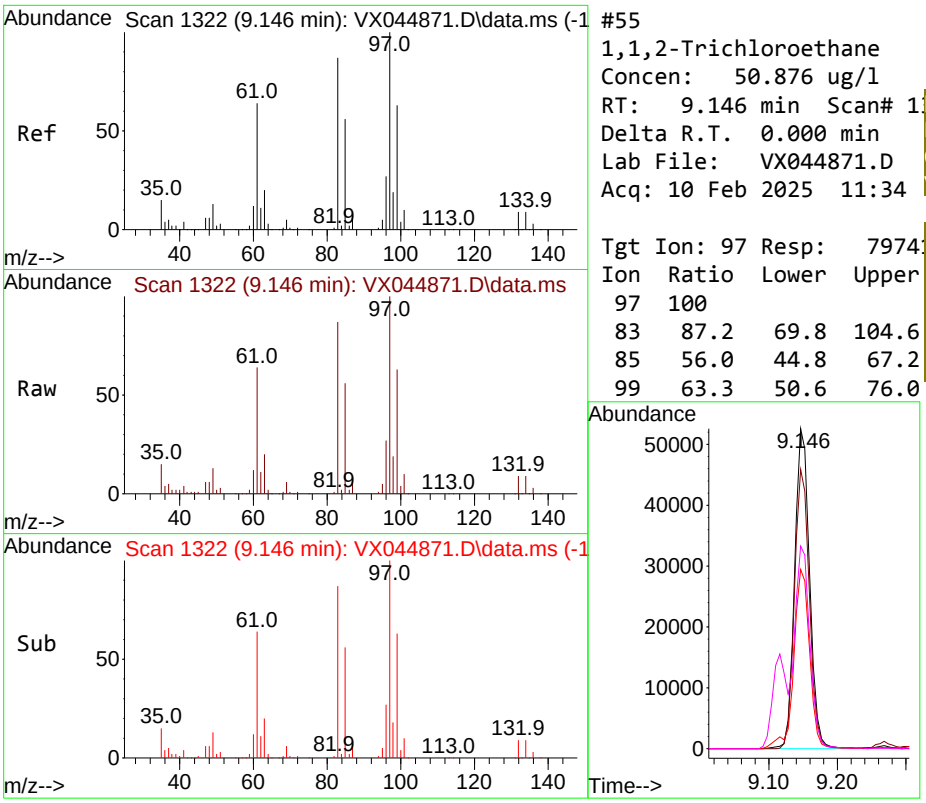


#54
cis-1,3-Dichloropropene
Concen: 52.223 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 134763

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.3	37.9
39	50.0	40.0	60.0





#55
1,1,2-Trichloroethane
Concen: 50.876 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 97 Resp: 7974

Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.8	104.6
85	56.0	44.8	67.2
99	63.3	50.6	76.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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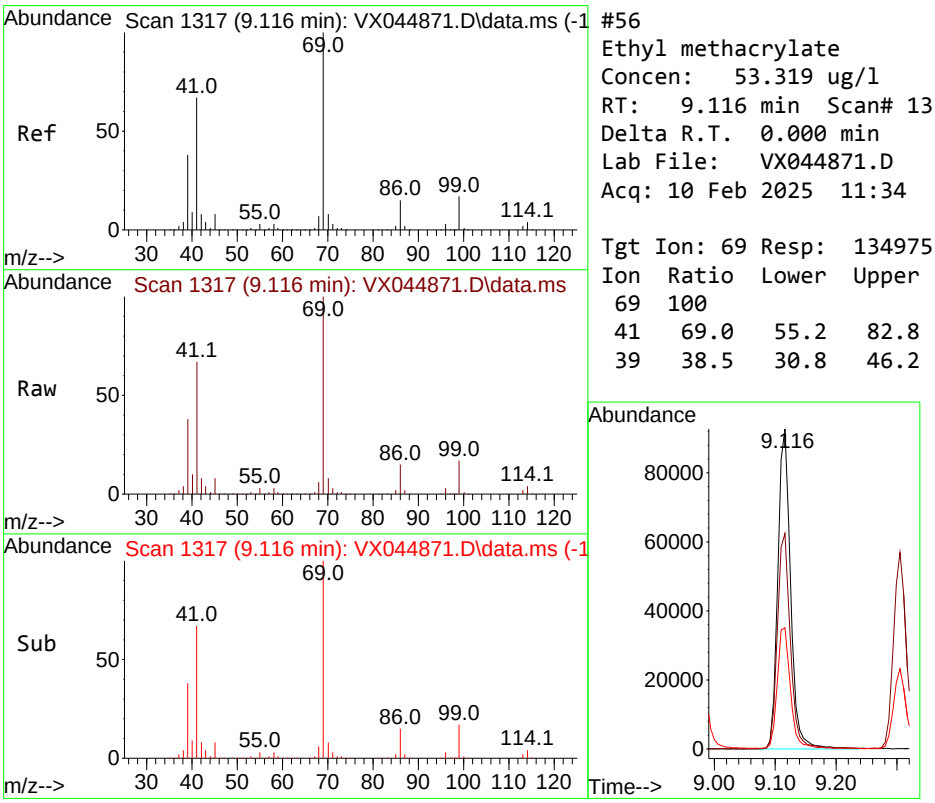
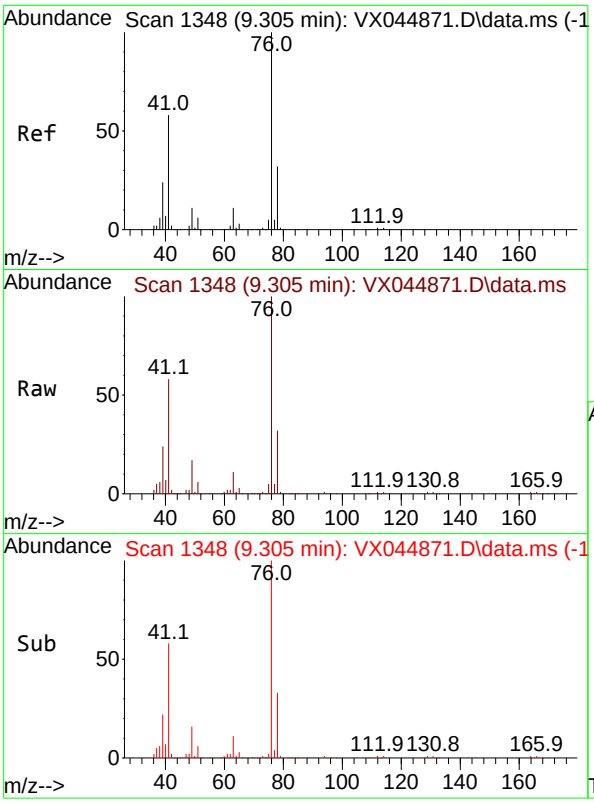


#56
Ethyl methacrylate
Concen: 53.319 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 69 Resp: 134975

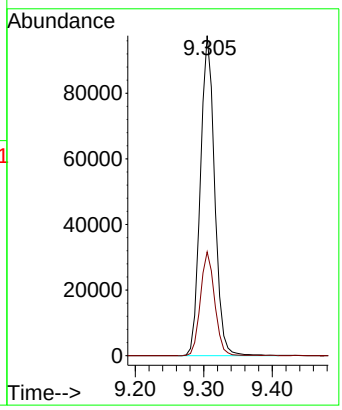
Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.2	82.8
39	38.5	30.8	46.2



#57
1,3-Dichloropropane
Concen: 51.537 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 76 Resp: 14133

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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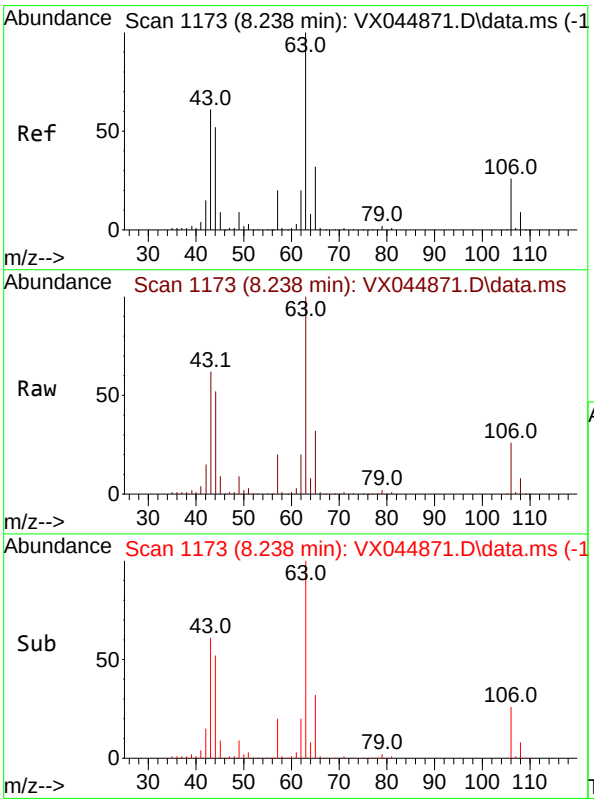
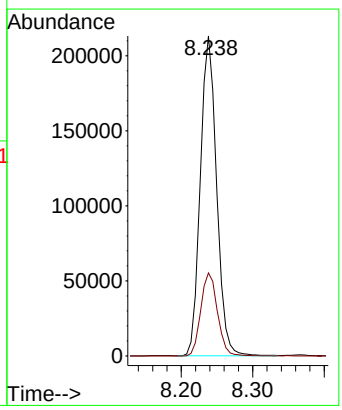
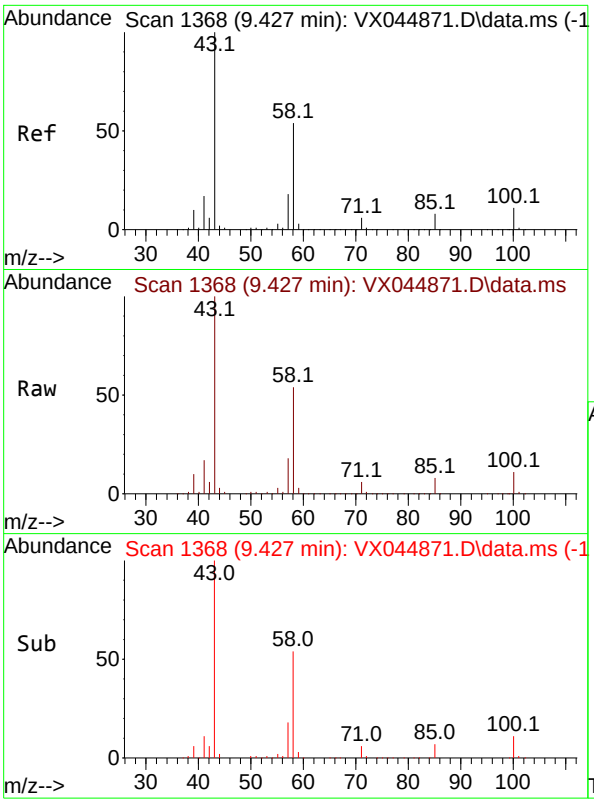


#58
2-Chloroethyl Vinyl ether
Concen: 270.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 336412

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9





#59
2-Hexanone
Concen: 273.800 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 47230

Ion	Ratio	Lower	Upper
43	100		
58	54.9	27.5	82.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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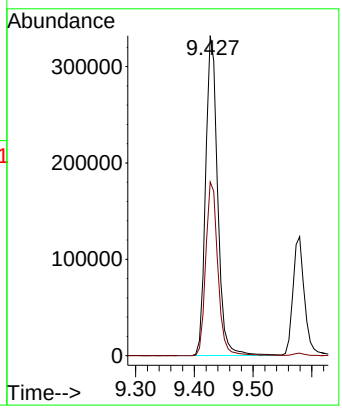
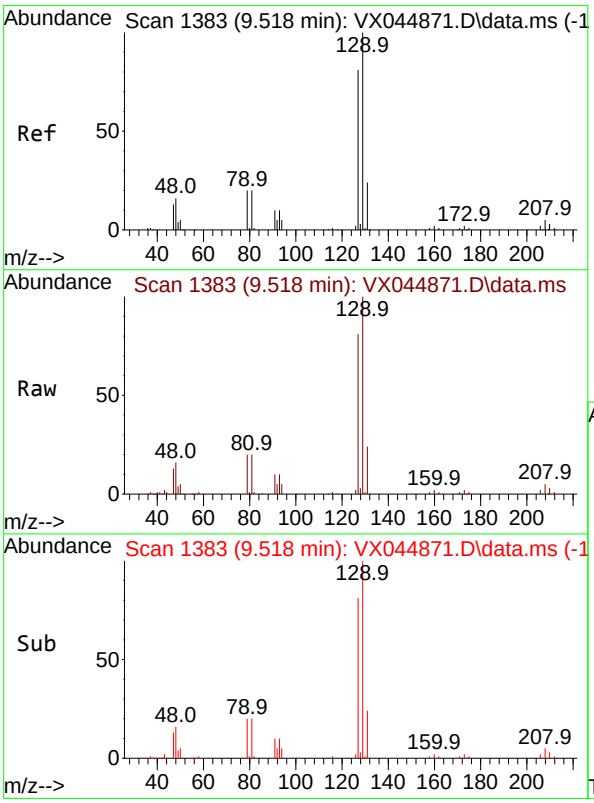
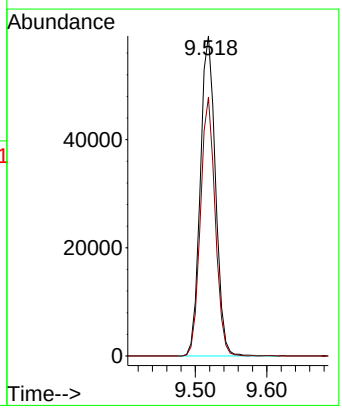


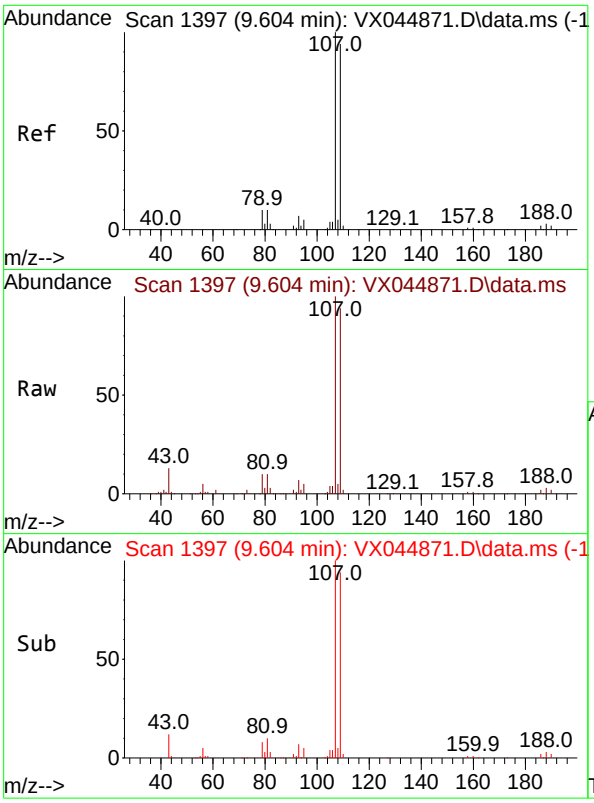


#60
Dibromochloromethane
Concen: 52.045 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:129 Resp: 87240

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3

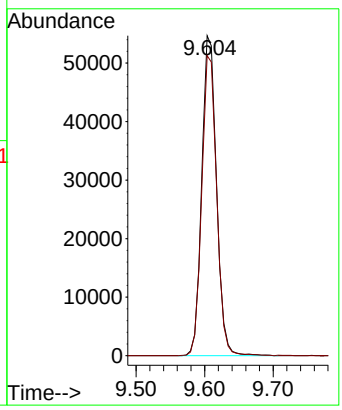




#61
1,2-Dibromoethane
Concen: 51.564 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:107 Resp: 8191

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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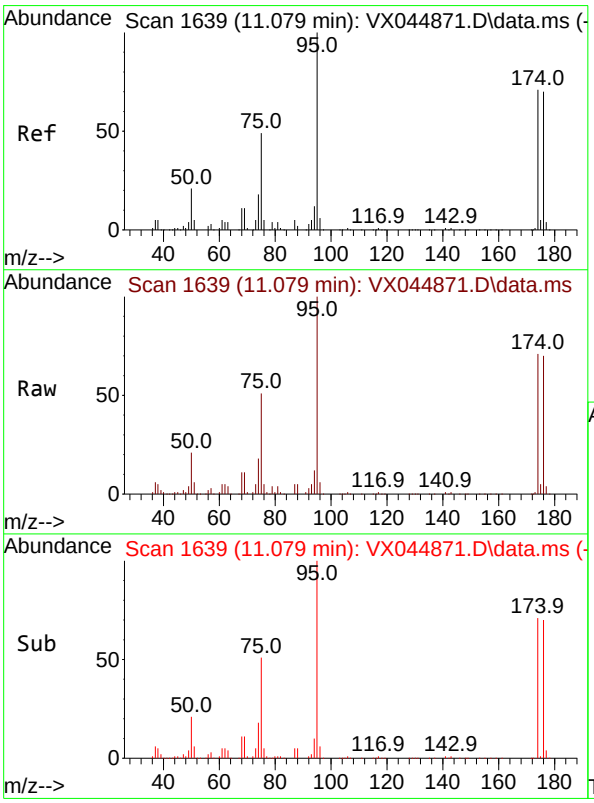
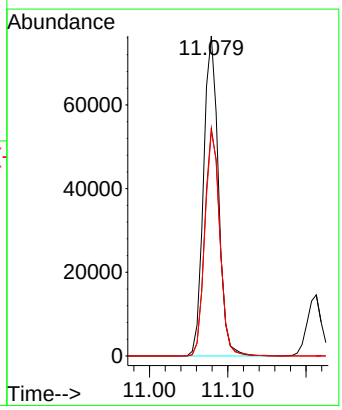
Supervised By :Mahesh Dadoda 02/11/2025

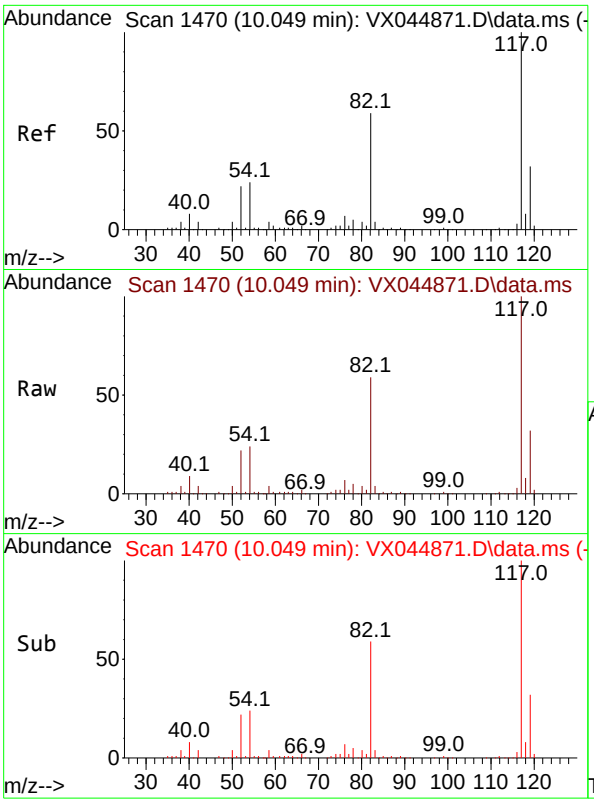


#62
4-Bromofluorobenzene
Concen: 52.031 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 95 Resp: 100798

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	142.6
176	70.8	0.0	141.6

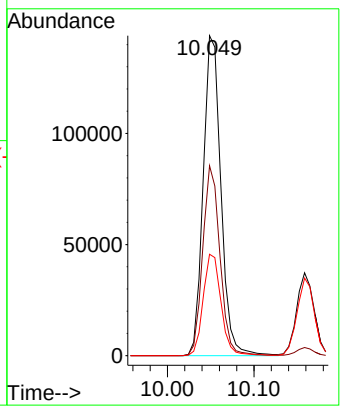




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 20475

Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	31.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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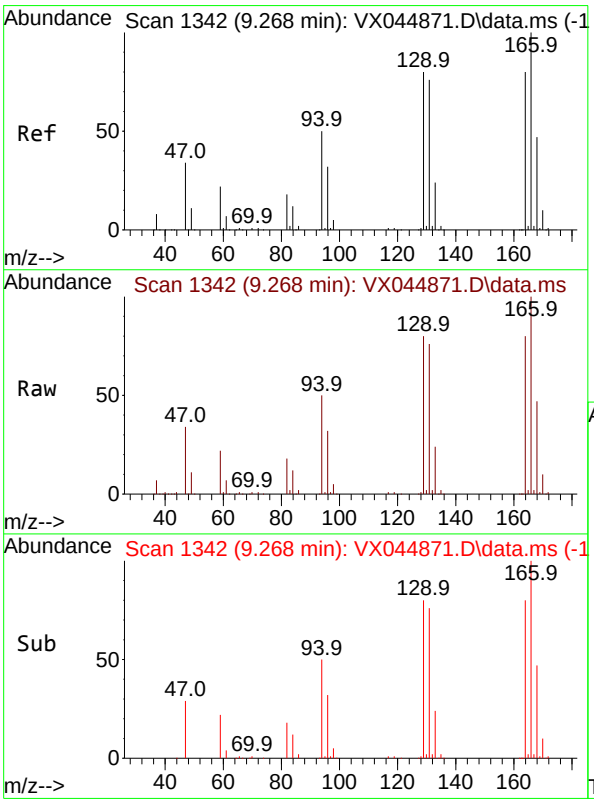
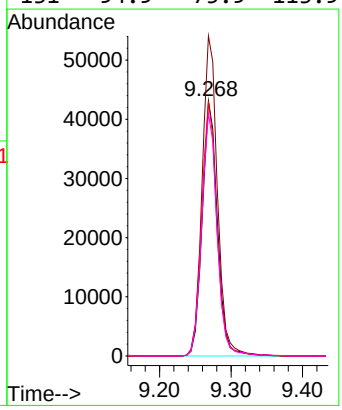
Supervised By :Mahesh Dadoda 02/11/2025

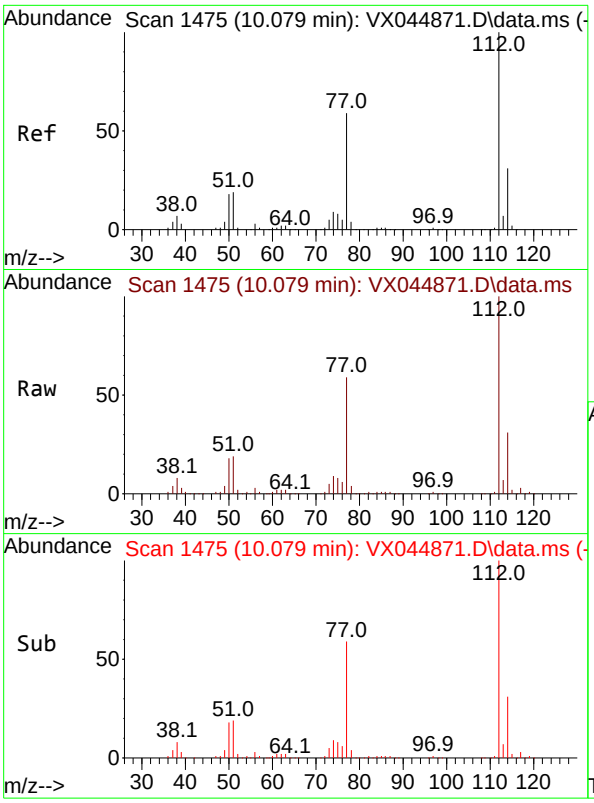


#64
Tetrachloroethene
Concen: 49.206 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:164 Resp: 63537

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.9	79.9	119.9
131	94.9	75.9	113.9

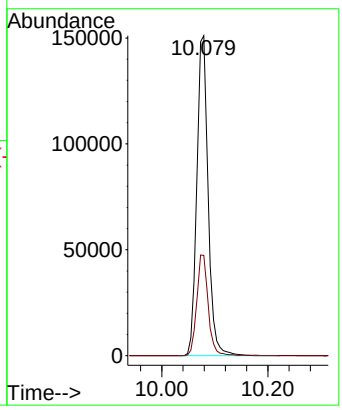




#65
Chlorobenzene
Concen: 51.005 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:112 Resp: 22430

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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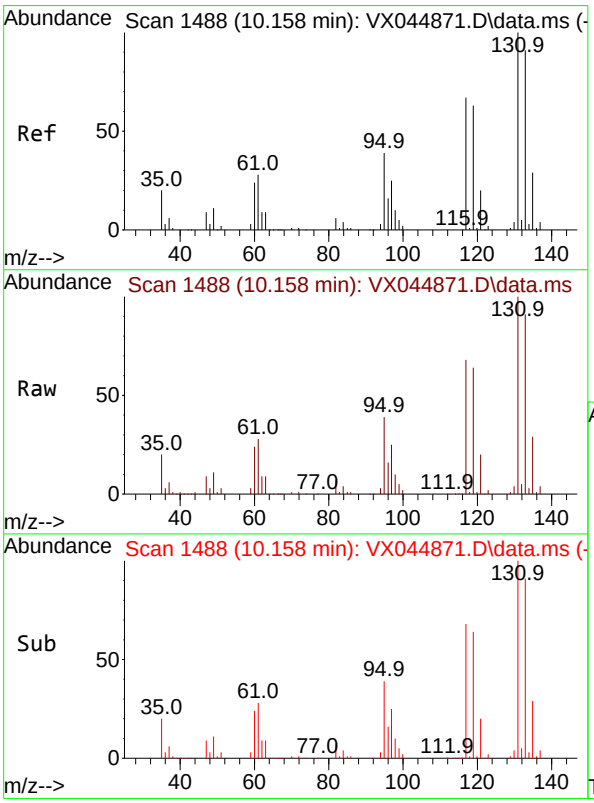
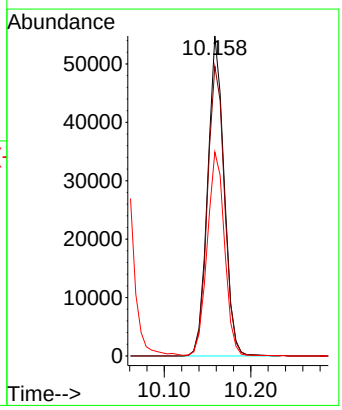
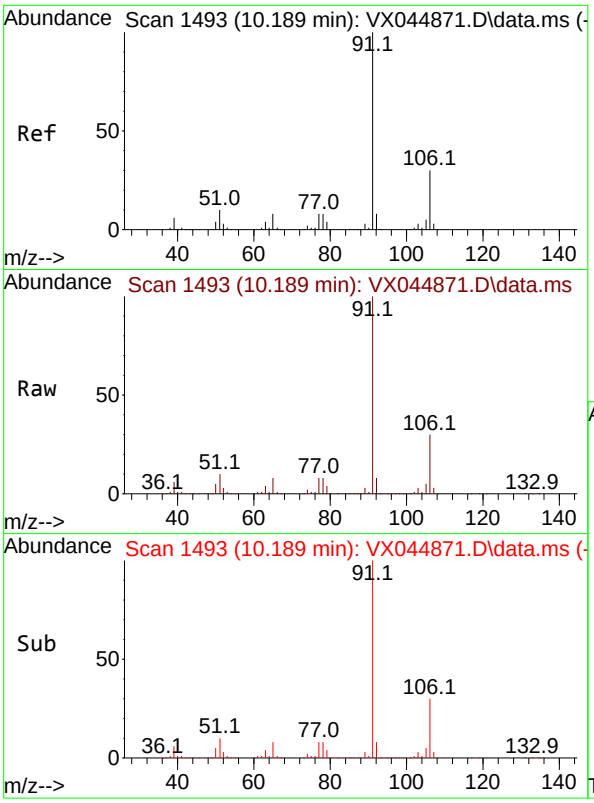


#66
1,1,1,2-Tetrachloroethane
Concen: 51.203 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:131 Resp: 72478

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.1	141.3
119	67.1	33.6	100.6

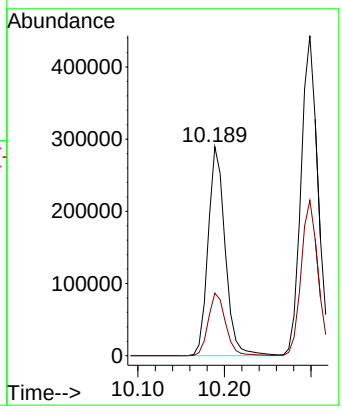




#67
Ethyl Benzene
Concen: 51.061 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 39626

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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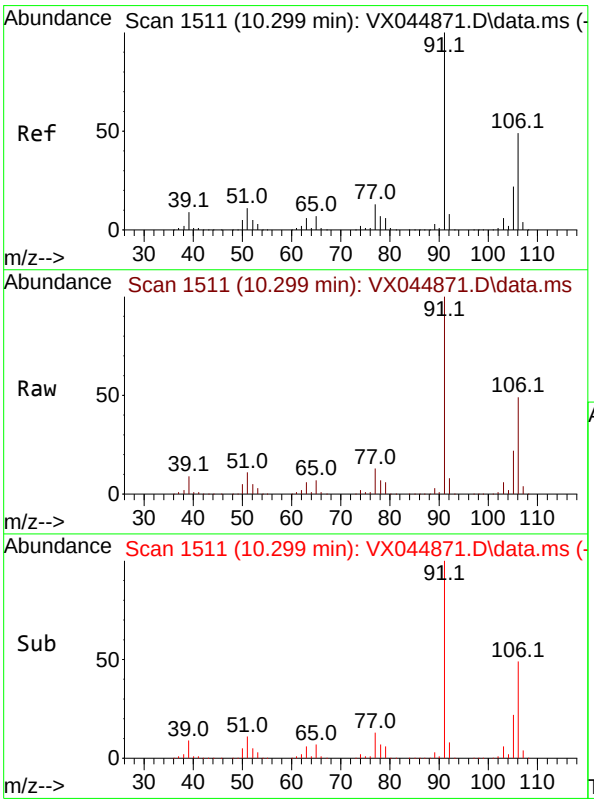
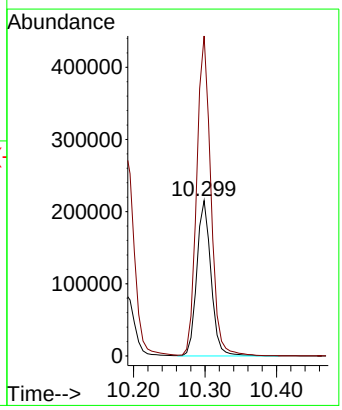
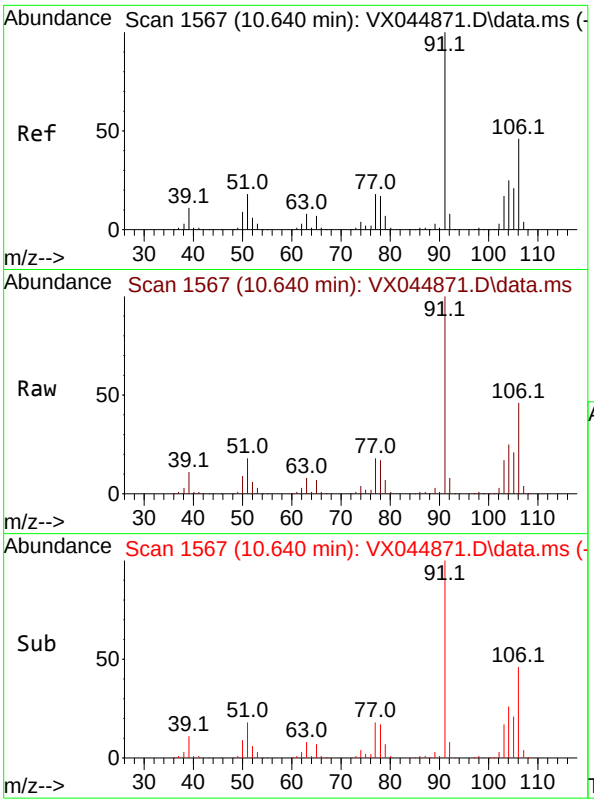


#68
m/p-Xylenes
Concen: 103.573 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:106 Resp: 296507

Ion	Ratio	Lower	Upper
106	100		
91	205.4	164.3	246.5

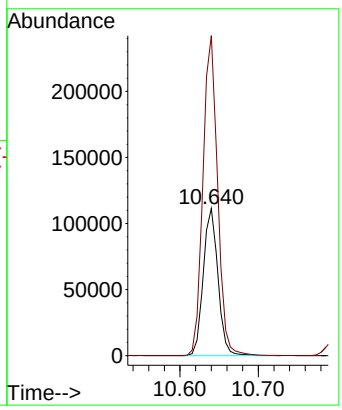




#69
o-Xylene
Concen: 50.409 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:106 Resp: 14480

Ion	Ratio	Lower	Upper
106	100		
91	217.0	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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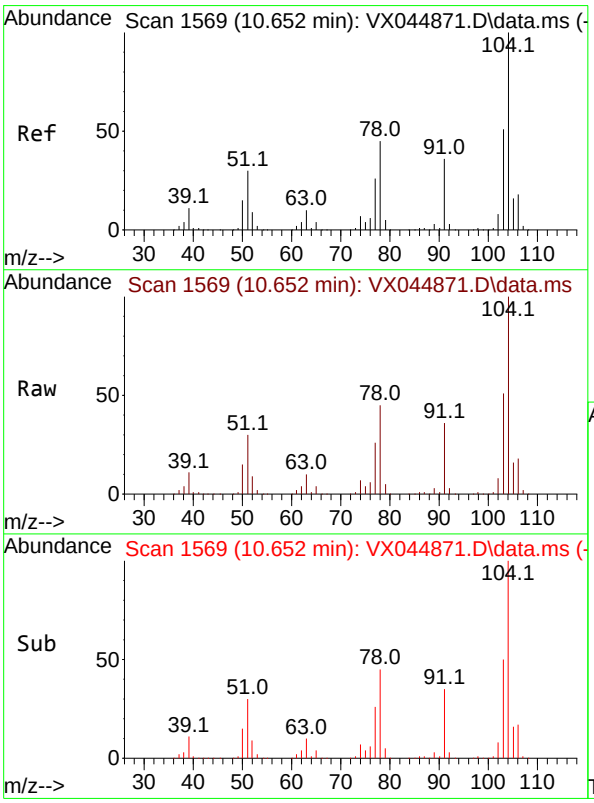
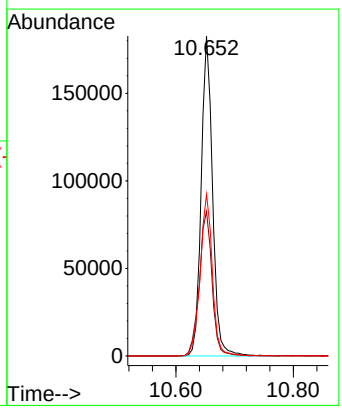
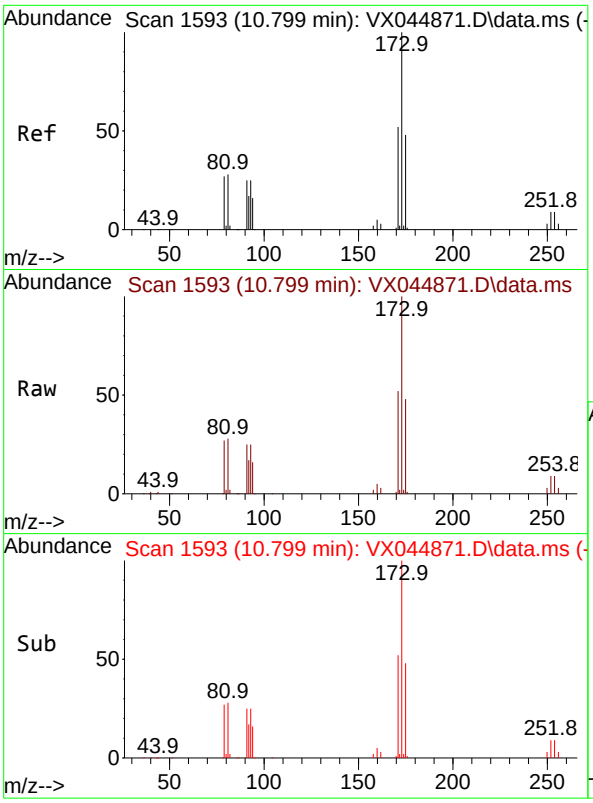


#70
Styrene
Concen: 53.051 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:104 Resp: 245518

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.5	60.7
103	54.5	43.6	65.4

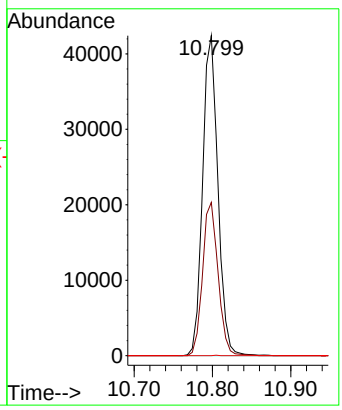




#71
Bromoform
Concen: 54.352 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:173 Resp: 5741

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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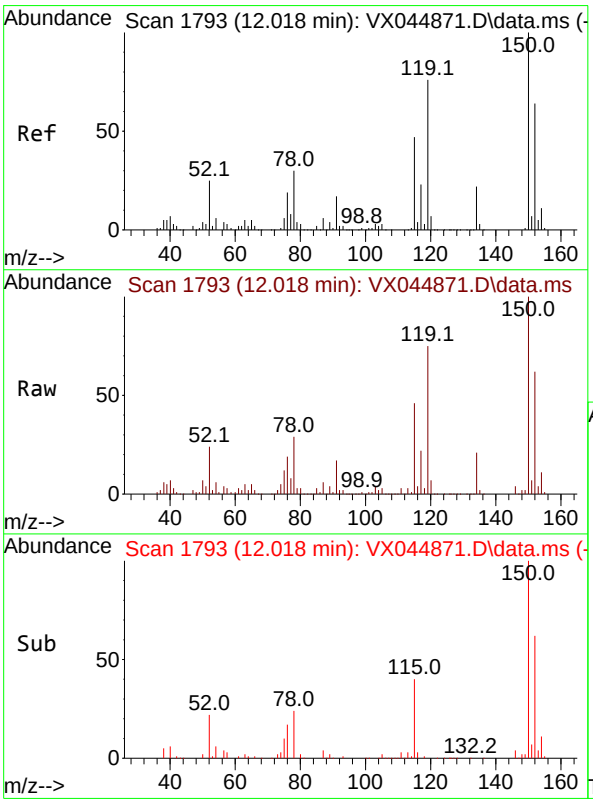
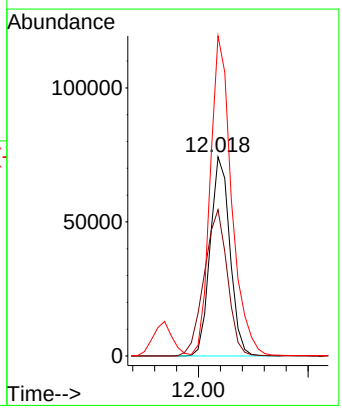
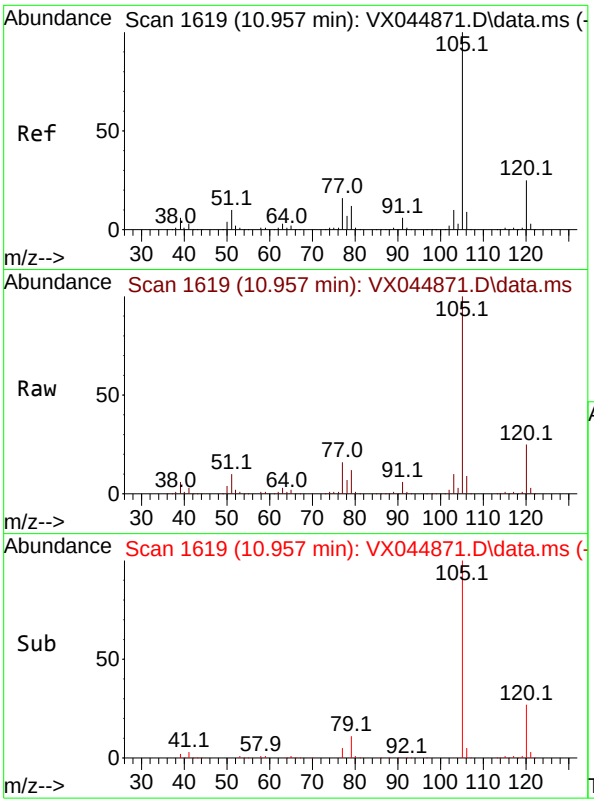


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:152 Resp: 92648

Ion	Ratio	Lower	Upper
152	100		
115	86.7	43.4	130.1
150	175.2	0.0	350.4

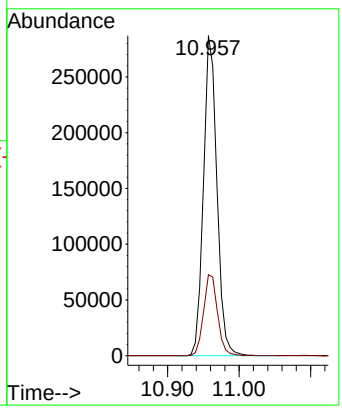




#73
Isopropylbenzene
Concen: 50.239 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 37477

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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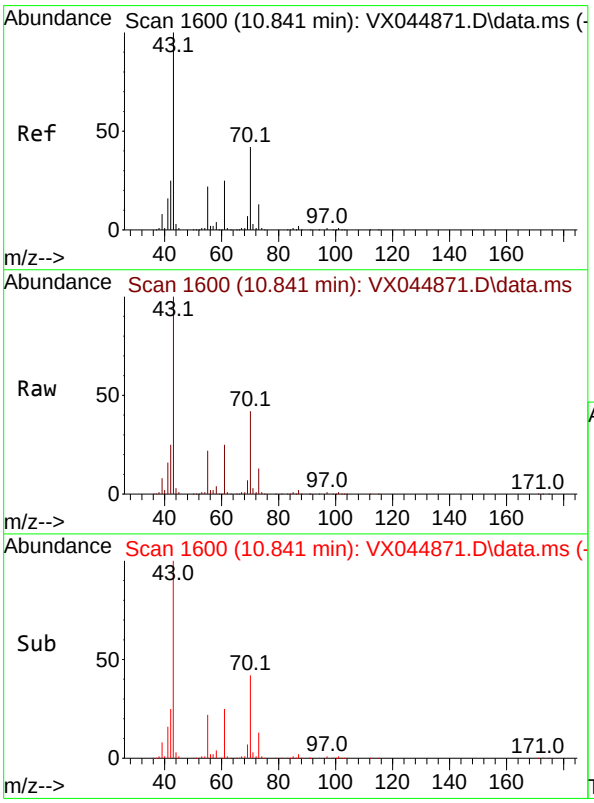
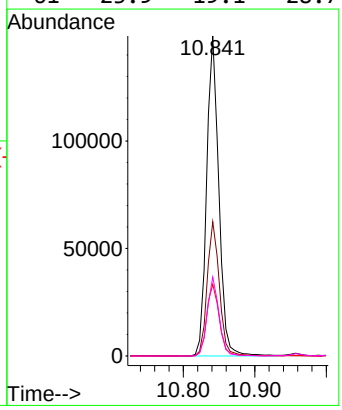
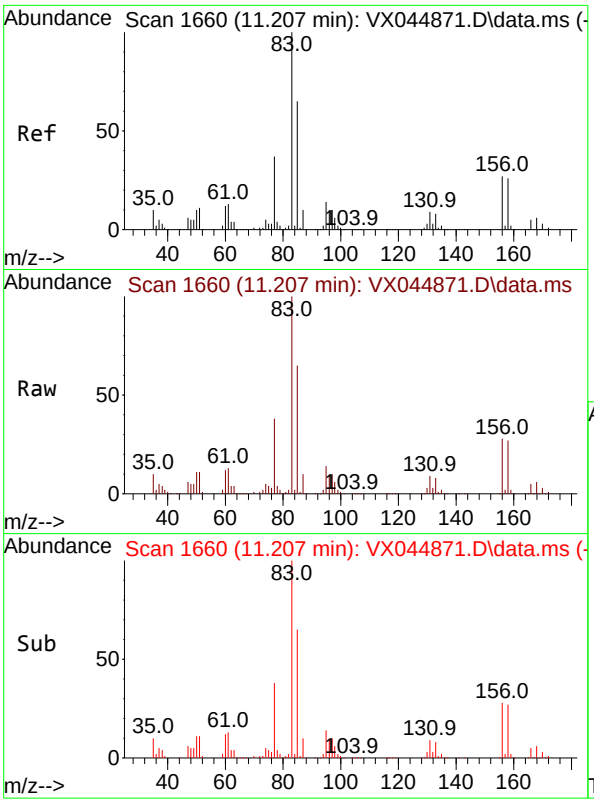


#74
N-amyl acetate
Concen: 52.189 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 176174

Ion	Ratio	Lower	Upper
43	100		
70	42.1	33.7	50.5
55	23.2	18.6	27.8
61	23.9	19.1	28.7

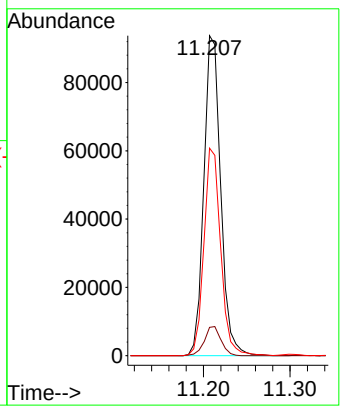




#75
1,1,2,2-Tetrachloroethane
Concen: 49.364 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 12654

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.5
85	64.5	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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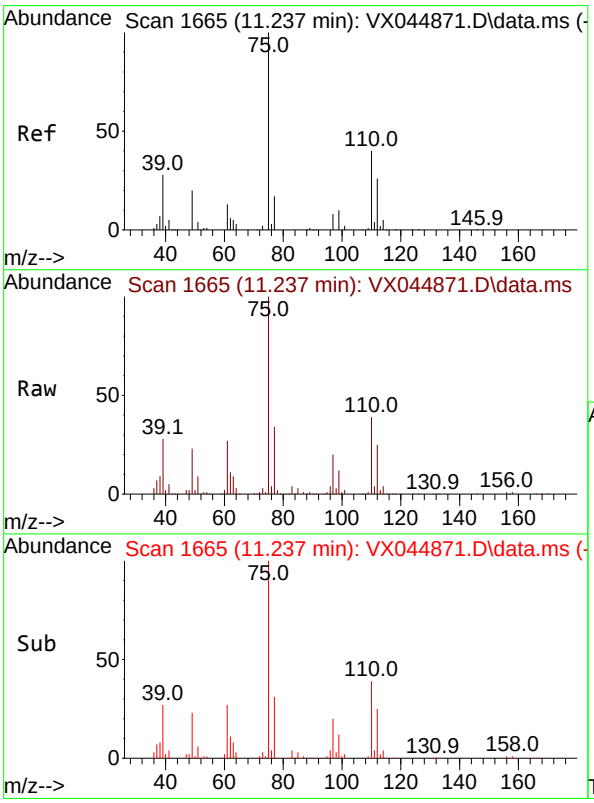
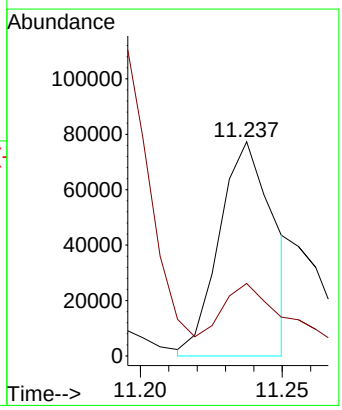
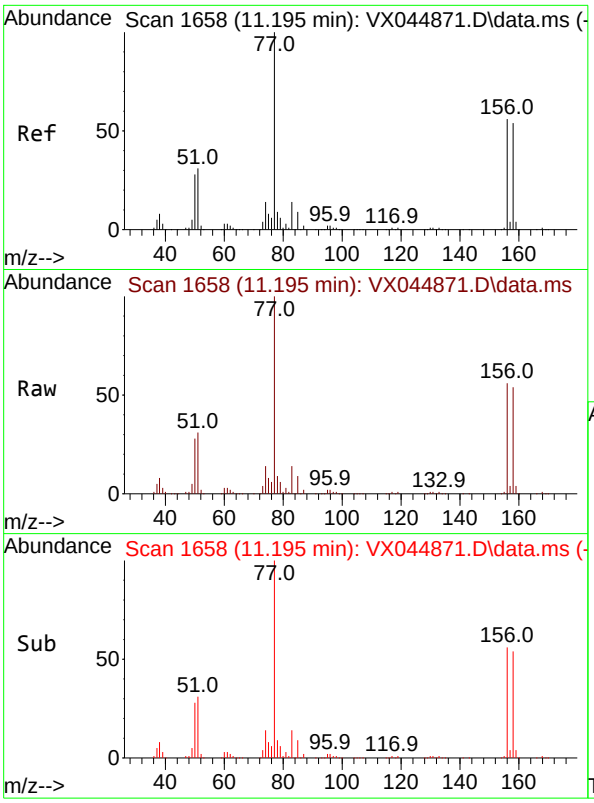


#76
1,2,3-Trichloropropane
Concen: 49.903 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 102508

Ion	Ratio	Lower	Upper
75	100		
77	43.8	21.9	65.7

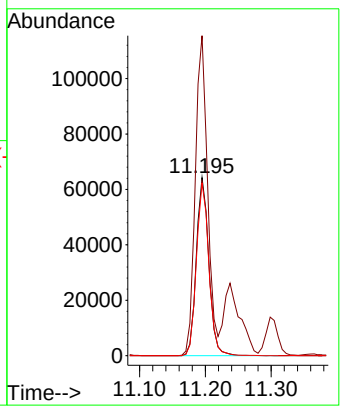




#77
Bromobenzene
Concen: 49.931 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:156 Resp: 8444

Ion	Ratio	Lower	Upper
156	100		
77	176.9	88.4	265.3
158	96.8	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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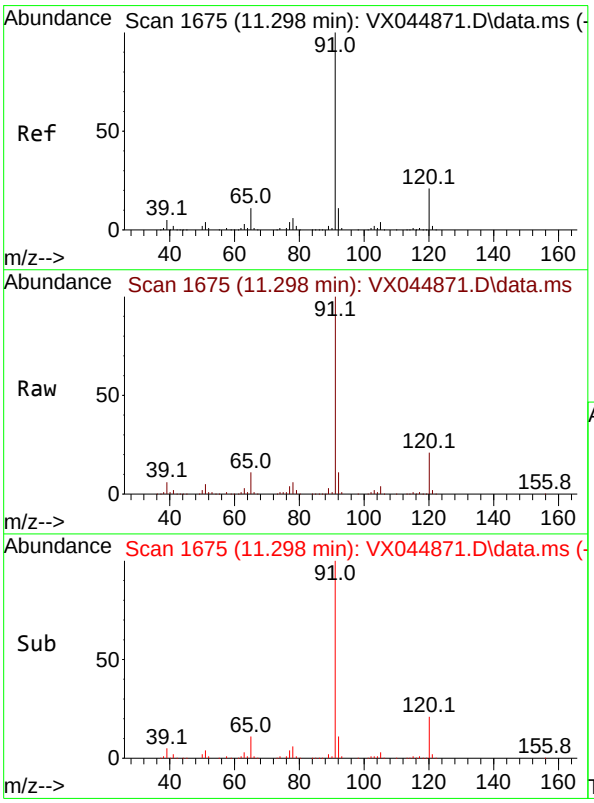
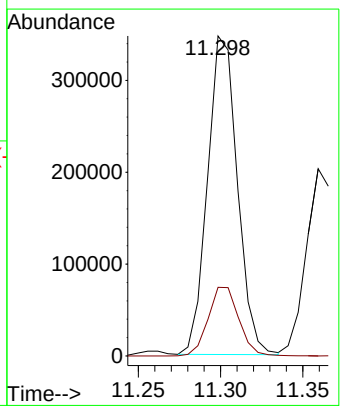
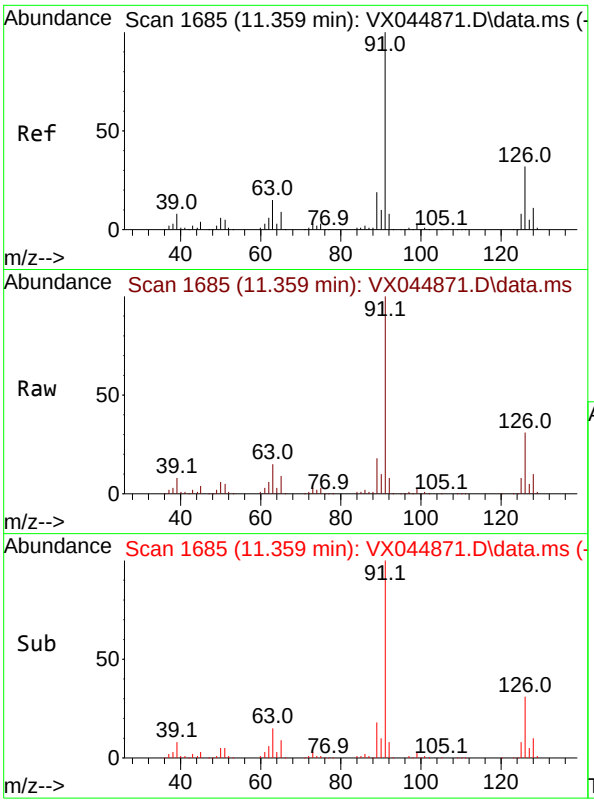


#78
n-propylbenzene
Concen: 50.818 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 437572

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3

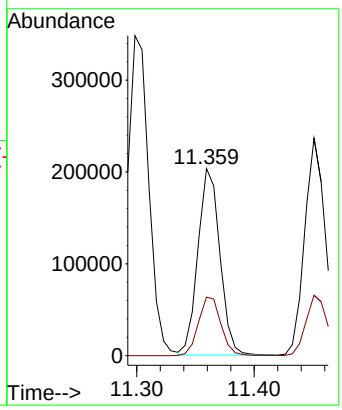




#79
2-Chlorotoluene
Concen: 49.749 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 26326

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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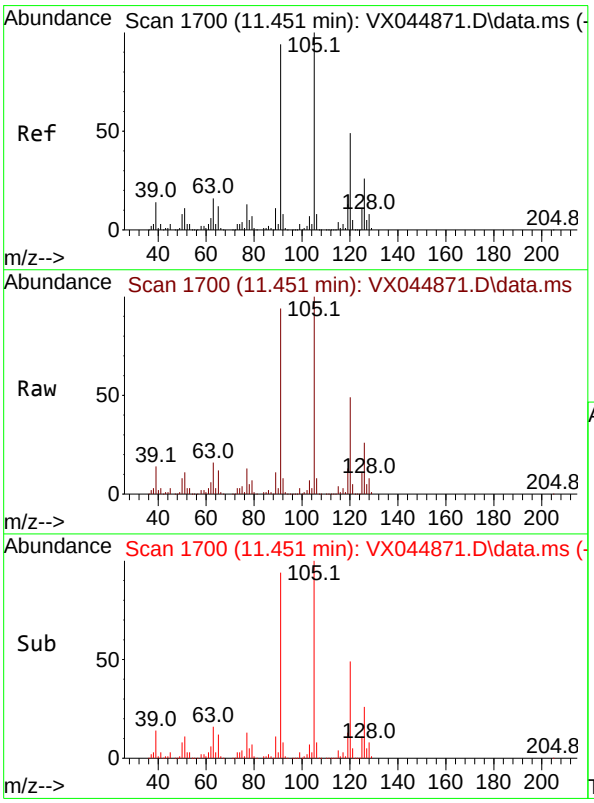
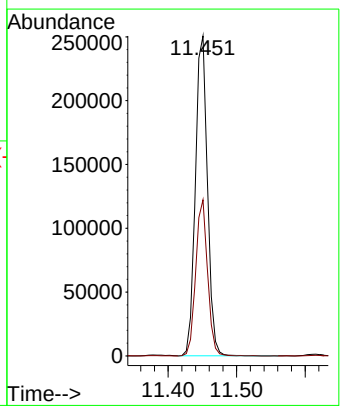
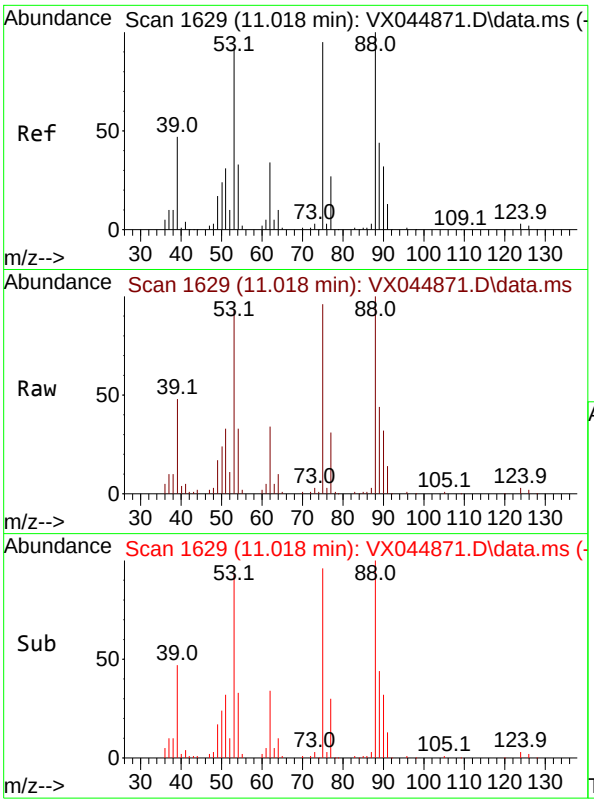


#80
1,3,5-Trimethylbenzene
Concen: 50.789 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 307465

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 50.701 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

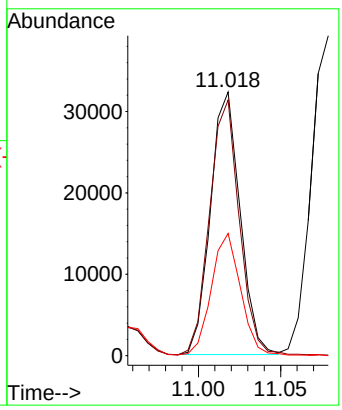
Tgt Ion: 75 Resp: 4048

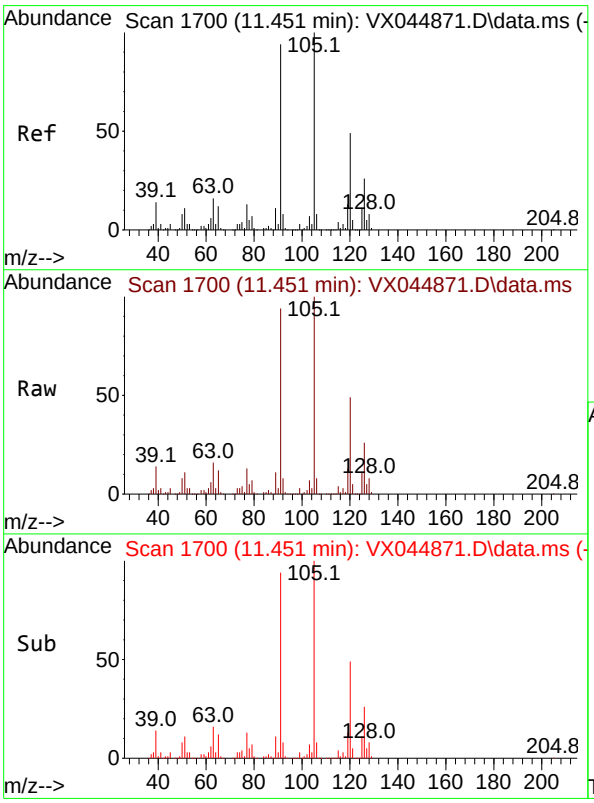
Ion	Ratio	Lower	Upper
75	100		
53	97.5	78.0	117.0
89	45.7	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

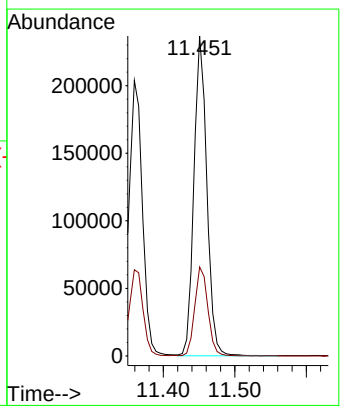


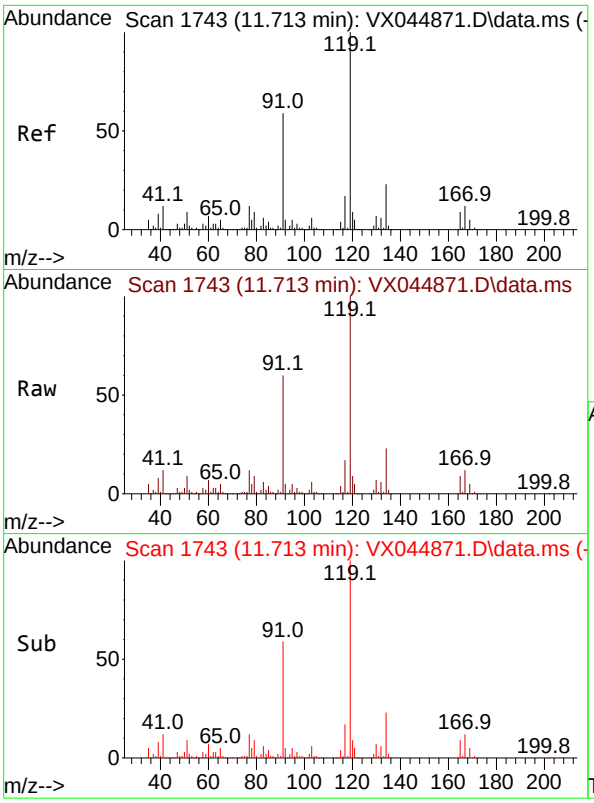


#82
4-Chlorotoluene
Concen: 50.531 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 295844

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6

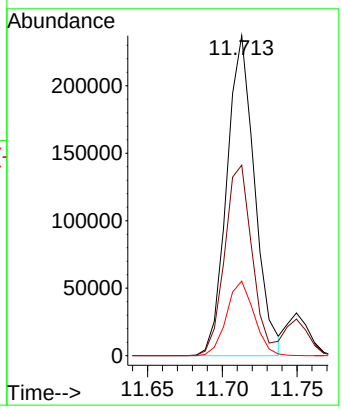




#83
tert-Butylbenzene
Concen: 50.102 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:119 Resp: 30683

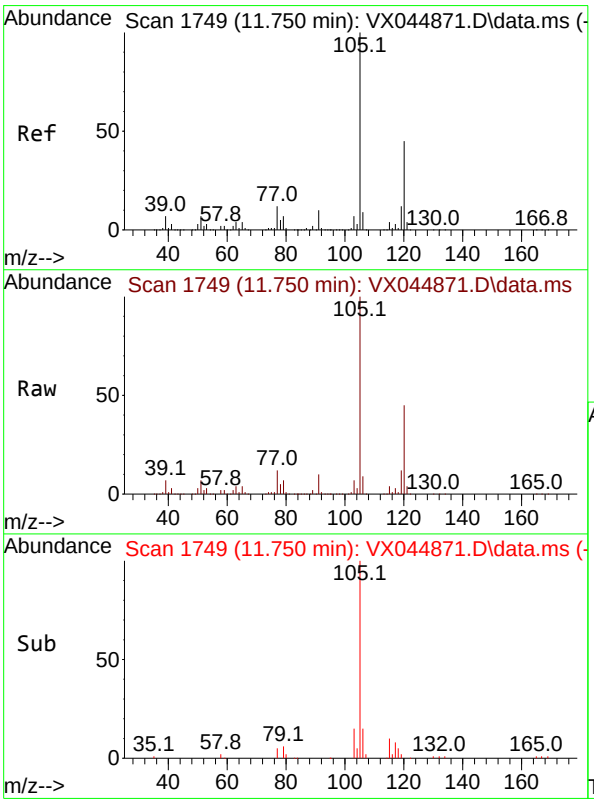
Ion	Ratio	Lower	Upper
119	100		
91	58.3	29.1	87.4
134	23.0	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

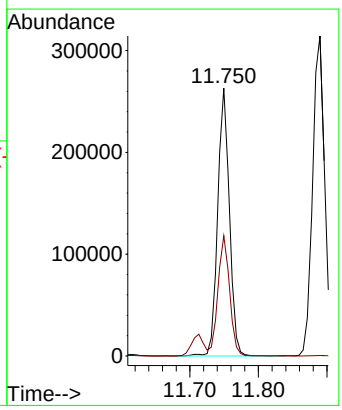
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

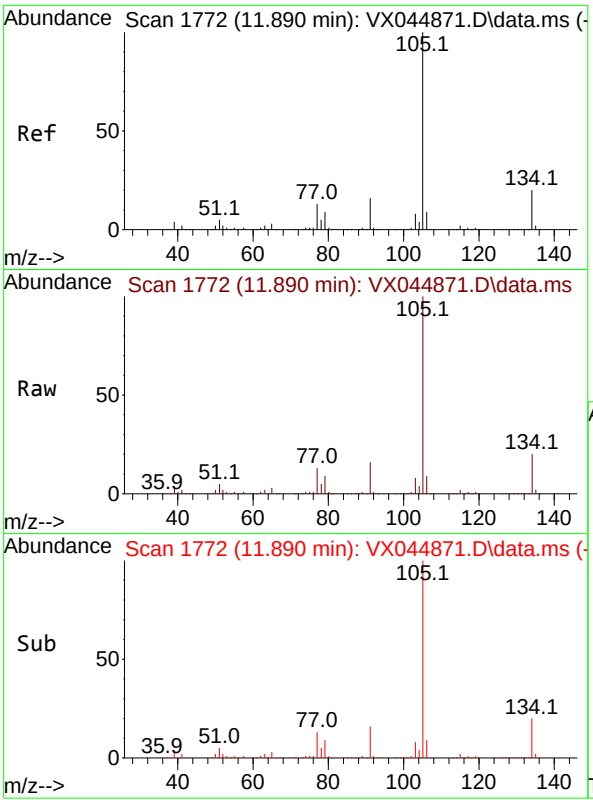


#84
1,2,4-Trimethylbenzene
Concen: 52.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 311205

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.0

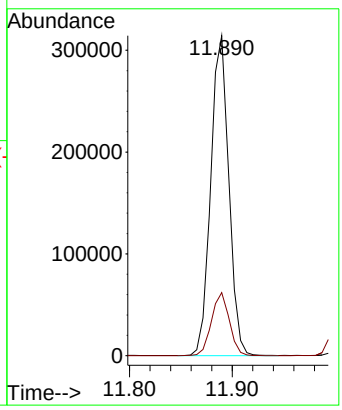




#85
sec-Butylbenzene
Concen: 50.657 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 38415

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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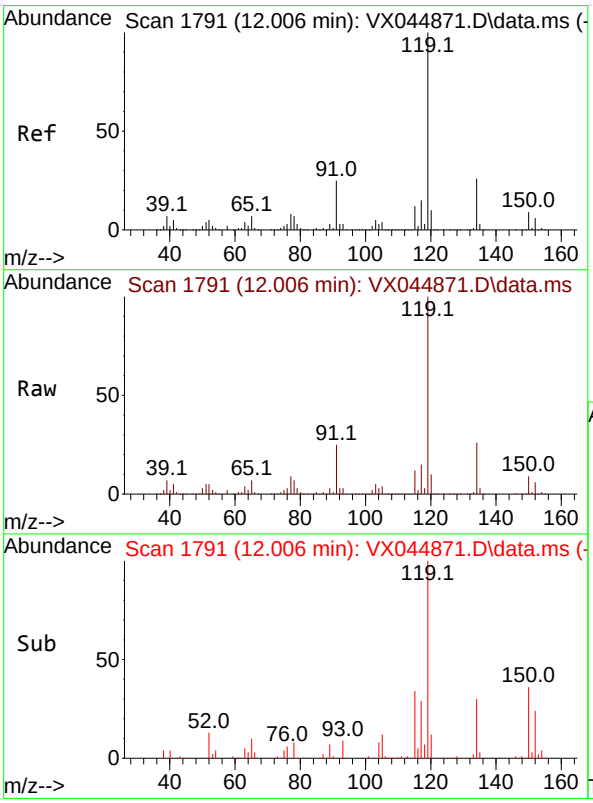
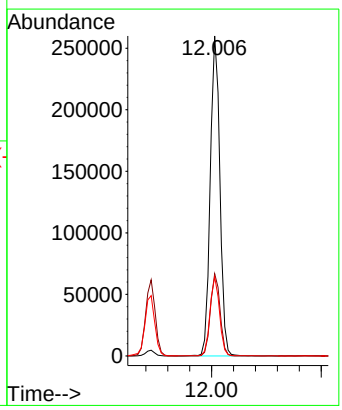
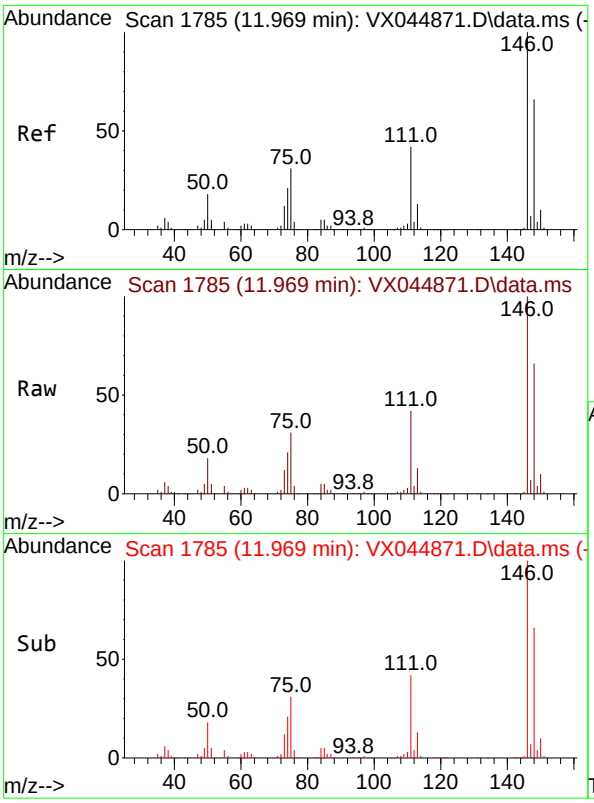


#86
p-Isopropyltoluene
Concen: 51.689 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:119 Resp: 315226

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	38.9
91	24.2	12.1	36.3

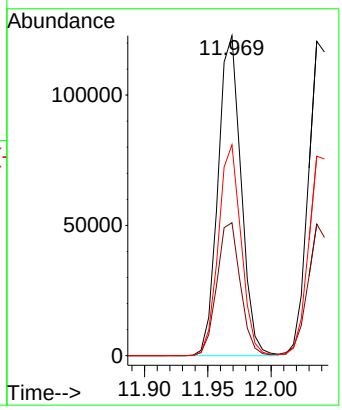




#87
1,3-Dichlorobenzene
Concen: 50.021 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 15557

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.0	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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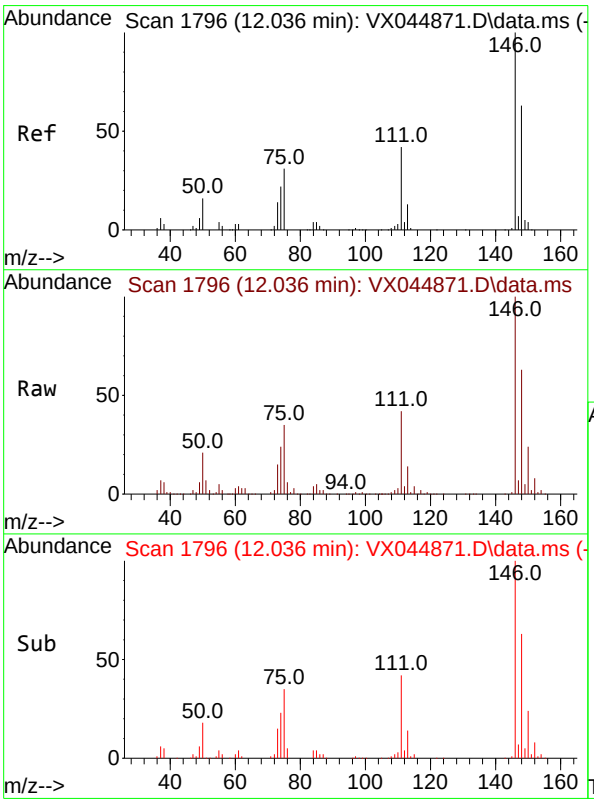
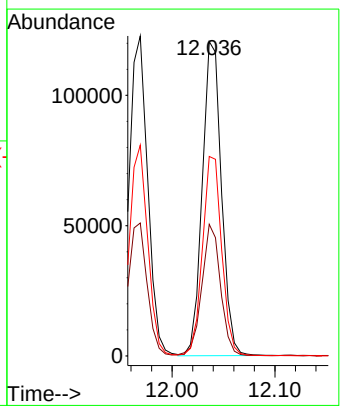
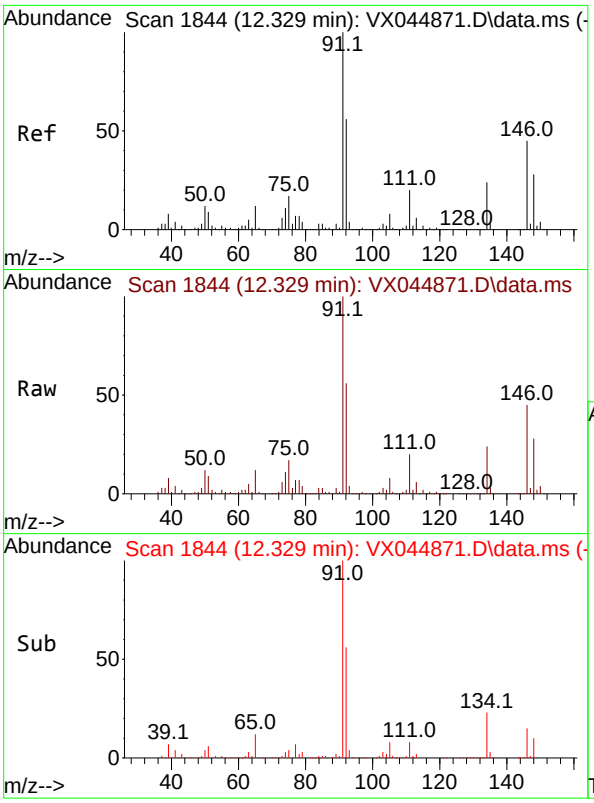


#88
1,4-Dichlorobenzene
Concen: 49.657 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 156162

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.4	61.3
148	64.0	32.0	96.0

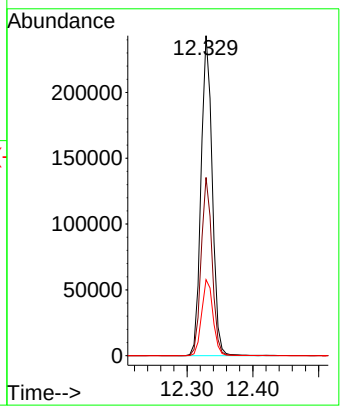




#89
n-Butylbenzene
Concen: 53.315 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 28764

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.2	81.6
134	24.2	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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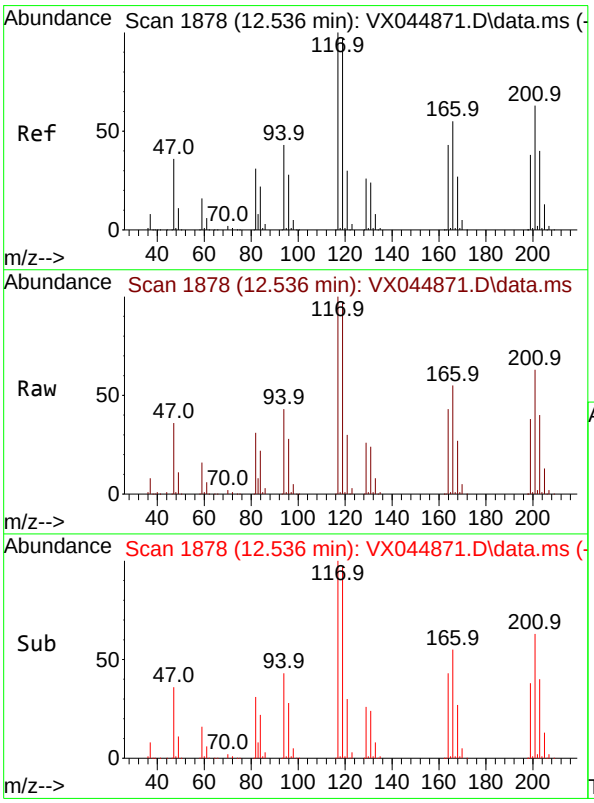
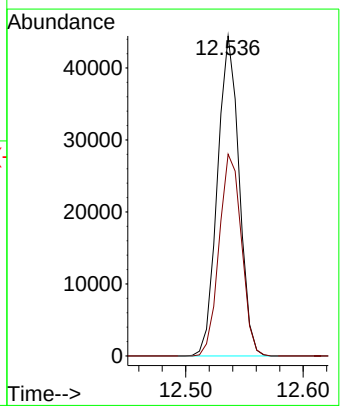
Supervised By :Mahesh Dadoda 02/11/2025

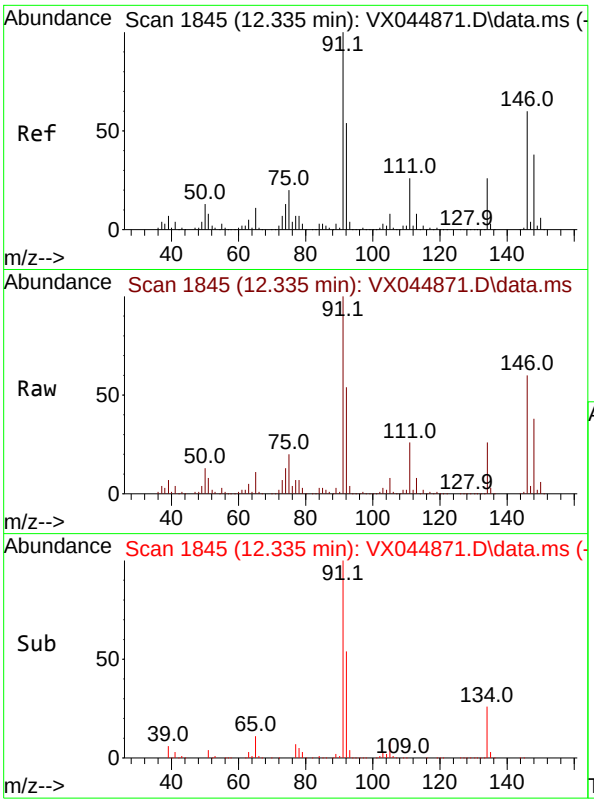


#90
Hexachloroethane
Concen: 49.874 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 56951

Ion	Ratio	Lower	Upper
117	100		
201	65.0	32.5	97.5

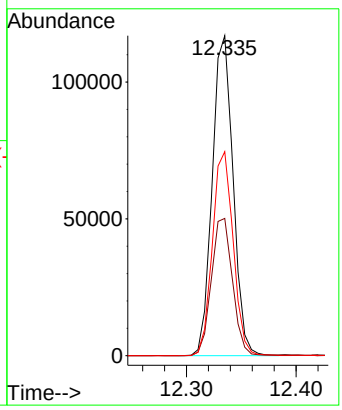




#91
1,2-Dichlorobenzene
Concen: 50.500 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 15436

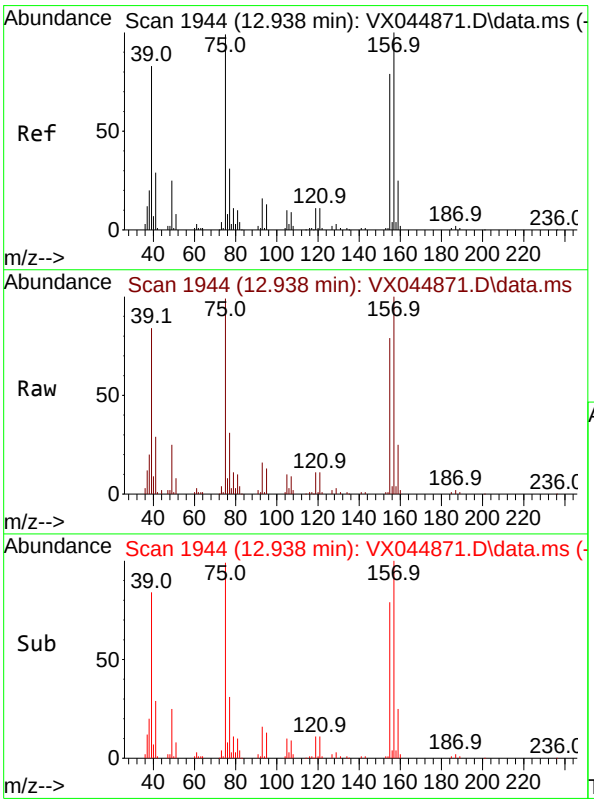
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.8	65.4
148	63.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

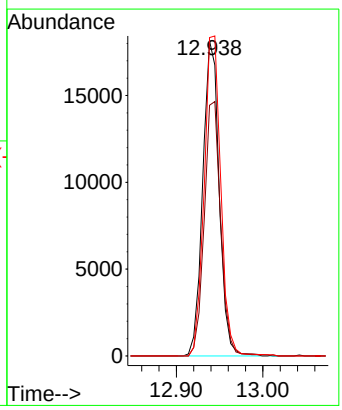
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

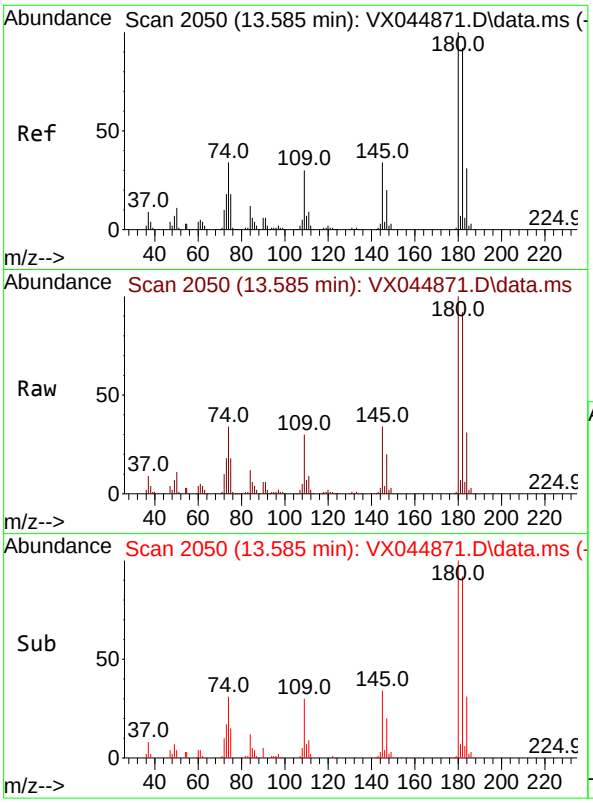


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.135 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 23924

Ion	Ratio	Lower	Upper
75	100		
155	80.9	40.5	121.4
157	102.9	51.4	154.3

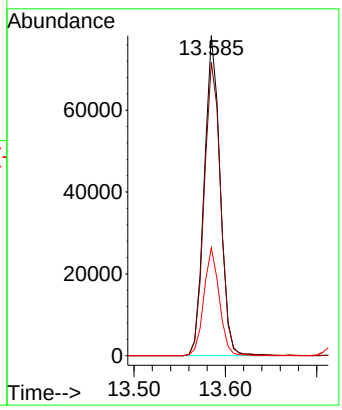




#93
1,2,4-Trichlorobenzene
Concen: 50.747 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:180 Resp: 9386

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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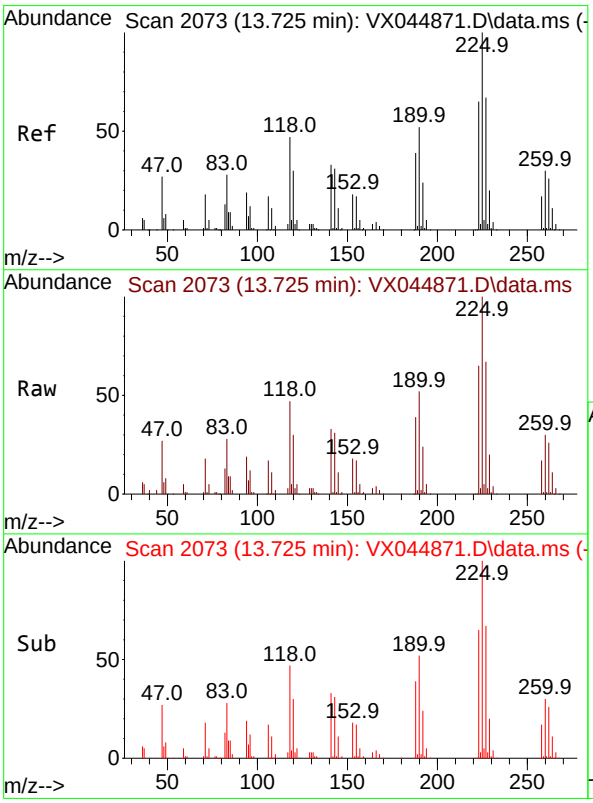
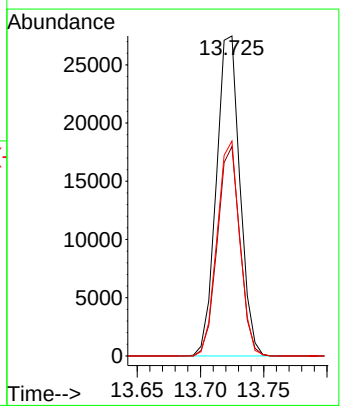
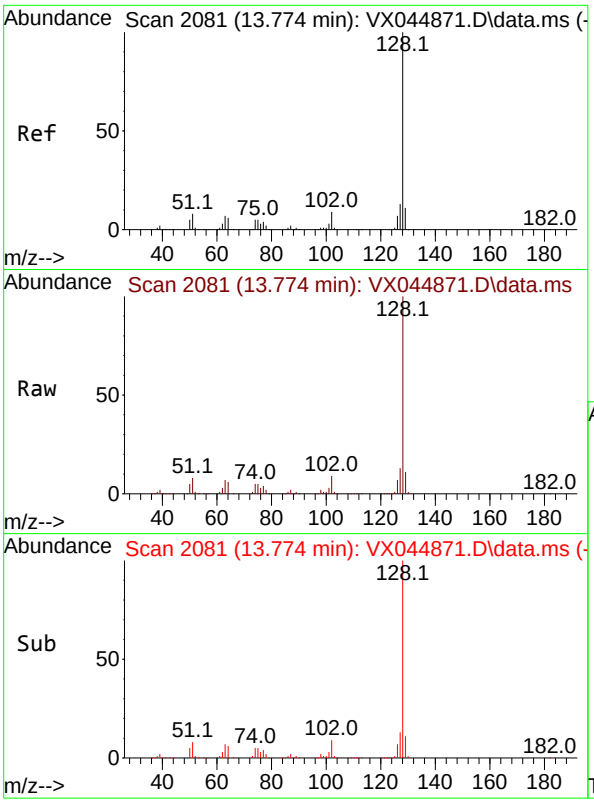


#94
Hexachlorobutadiene
Concen: 48.321 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:225 Resp: 35481

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.4	94.2
227	64.5	32.3	96.8

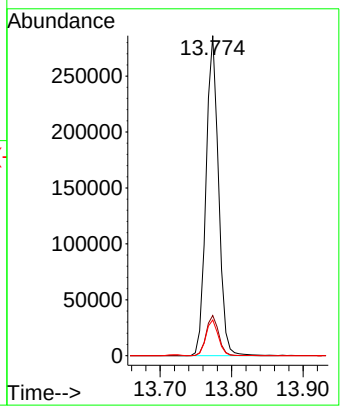




#95
Naphthalene
Concen: 51.995 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:128 Resp: 34764

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.1	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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Reviewed By :John Carlone 02/11/2025
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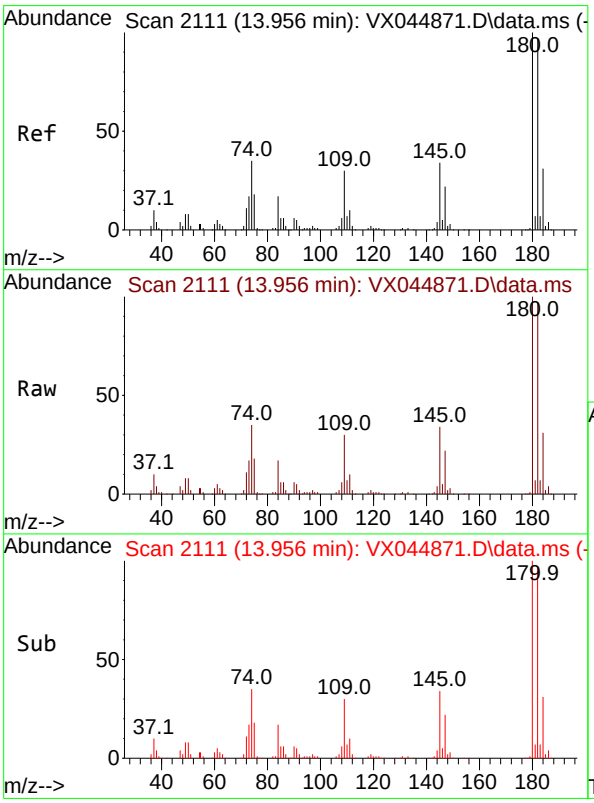
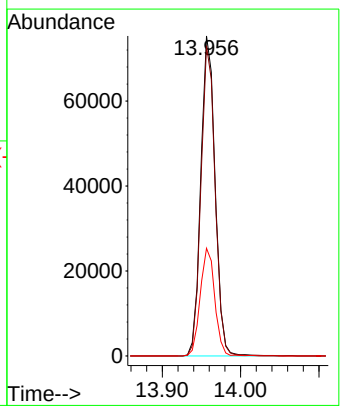


#96
1,2,3-Trichlorobenzene
Concen: 51.245 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:180 Resp: 95510

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.6
145	34.2	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	129508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	236372	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	203881	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	91371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	183093	96.580	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 193.160%#			
35) Dibromofluoromethane	5.373	113	151228	98.404	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 196.800%#			
50) Toluene-d8	8.647	98	570976	98.253	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 196.500%#			
62) 4-Bromofluorobenzene	11.079	95	196066	100.079	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.160%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	182788	100.632	ug/l	99
3) Chloromethane	1.301	50	208416	94.275	ug/l	99
4) Vinyl Chloride	1.374	62	209017	97.593	ug/l	100
5) Bromomethane	1.593	94	62797	97.984	ug/l	97
6) Chloroethane	1.660	64	64581	100.253	ug/l	98
7) Trichlorofluoromethane	1.868	101	262354	96.865	ug/l	99
8) Diethyl Ether	2.130	74	95914	97.647	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	163414	99.860	ug/l	100
10) Methyl Iodide	2.441	142	212118	100.016	ug/l	99
11) Tert butyl alcohol	3.002	59	165263	469.903	ug/l #	73
12) 1,1-Dichloroethene	2.307	96	163593	98.004	ug/l	98
13) Acrolein	2.233	56	180570	497.628	ug/l	99
14) Allyl chloride	2.654	41	297526	98.624	ug/l	98
15) Acrylonitrile	3.063	53	466855	497.173	ug/l	99
16) Acetone	2.386	43	369720	485.125	ug/l	99
17) Carbon Disulfide	2.502	76	463308	101.216	ug/l	99
18) Methyl Acetate	2.703	43	238689	99.249	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	521003	98.098	ug/l	100
20) Methylene Chloride	2.782	84	180120	96.490	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	164067	99.864	ug/l	95
22) Diisopropyl ether	3.758	45	565927	99.157	ug/l	95
23) Vinyl Acetate	3.715	43	2387200	513.051	ug/l	100
24) 1,1-Dichloroethane	3.599	63	313164	98.064	ug/l	99
25) 2-Butanone	4.550	43	617283	498.801	ug/l	98
26) 2,2-Dichloropropane	4.465	77	248324	98.053	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	196381	99.513	ug/l	99
28) Bromochloromethane	4.885	49	148137	96.524	ug/l	100
29) Tetrahydrofuran	4.995	42	405208	493.104	ug/l	100
30) Chloroform	5.087	83	298690	96.445	ug/l	99
31) Cyclohexane	5.458	56	286830	97.426	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	254941	97.050	ug/l	100
36) 1,1-Dichloropropene	5.684	75	216005	97.422	ug/l	100
37) Ethyl Acetate	4.709	43	244164	99.005	ug/l	99
38) Carbon Tetrachloride	5.666	117	210381	96.828	ug/l	97
39) Methylcyclohexane	7.373	83	299703	104.554	ug/l	98
40) Benzene	6.025	78	675556	97.576	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	135629	102.745	ug/l		99
42) 1,2-Dichloroethane	6.080	62	218174	98.875	ug/l		100
43) Isopropyl Acetate	6.336	43	405489	101.818	ug/l		100
44) Trichloroethene	7.117	130	156832	99.103	ug/l		96
45) 1,2-Dichloropropane	7.422	63	170337	98.893	ug/l		97
46) Dibromomethane	7.574	93	119149	99.747	ug/l		100
47) Bromodichloromethane	7.818	83	236506	102.254	ug/l		97
48) Methyl methacrylate	7.690	41	195892	104.321	ug/l		100
49) 1,4-Dioxane	7.659	88	77816	1931.508	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	1196887	494.353	ug/l		100
52) Toluene	8.714	92	409318	99.270	ug/l		99
53) t-1,3-Dichloropropene	8.970	75	249725	106.694	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	277371	106.287	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	156629	98.817	ug/l		100
56) Ethyl methacrylate	9.116	69	268693	104.958	ug/l		99
57) 1,3-Dichloropropane	9.305	76	273845	98.742	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	664198	528.405	ug/l		100
59) 2-Hexanone	9.427	43	871904	499.819	ug/l		99
60) Dibromochloromethane	9.519	129	173848	102.557	ug/l		100
61) 1,2-Dibromoethane	9.604	107	162982	101.451	ug/l		98
64) Tetrachloroethene	9.269	164	125294	97.447	ug/l		100
65) Chlorobenzene	10.073	112	436565	99.694	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	144793	102.728	ug/l		100
67) Ethyl Benzene	10.189	91	784184	101.477	ug/l		100
68) m/p-Xylenes	10.299	106	575559	201.907	ug/l		99
69) o-Xylene	10.640	106	281830	98.530	ug/l		100
70) Styrene	10.653	104	473403	102.728	ug/l		99
71) Bromoform	10.799	173	112371	106.827	ug/l	#	99
73) Isopropylbenzene	10.957	105	719923	97.854	ug/l		99
74) N-amyl acetate	10.842	43	345193	103.687	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	238529	94.351	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	198320m	97.896	ug/l		
77) Bromobenzene	11.195	156	163845	98.230	ug/l		100
78) n-propylbenzene	11.299	91	858793	101.132	ug/l		100
79) 2-Chlorotoluene	11.360	91	497149	95.257	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	584885	97.966	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	83483	106.006	ug/l		98
82) 4-Chlorotoluene	11.451	91	569510	98.634	ug/l		100
83) tert-Butylbenzene	11.713	119	591396	97.917	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	588385	99.851	ug/l		99
85) sec-Butylbenzene	11.890	105	749534	100.219	ug/l		99
86) p-Isopropyltoluene	12.006	119	607577	101.019	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	303851	99.061	ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	303417	97.830	ug/l		99
89) n-Butylbenzene	12.329	91	583634	109.686	ug/l		100
90) Hexachloroethane	12.536	117	117533	104.365	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	293151	97.244	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	47745	103.477	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	193214	105.921	ug/l		99
94) Hexachlorobutadiene	13.725	225	74605	103.024	ug/l		99
95) Naphthalene	13.774	128	689104	104.505	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	190534	103.659	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

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

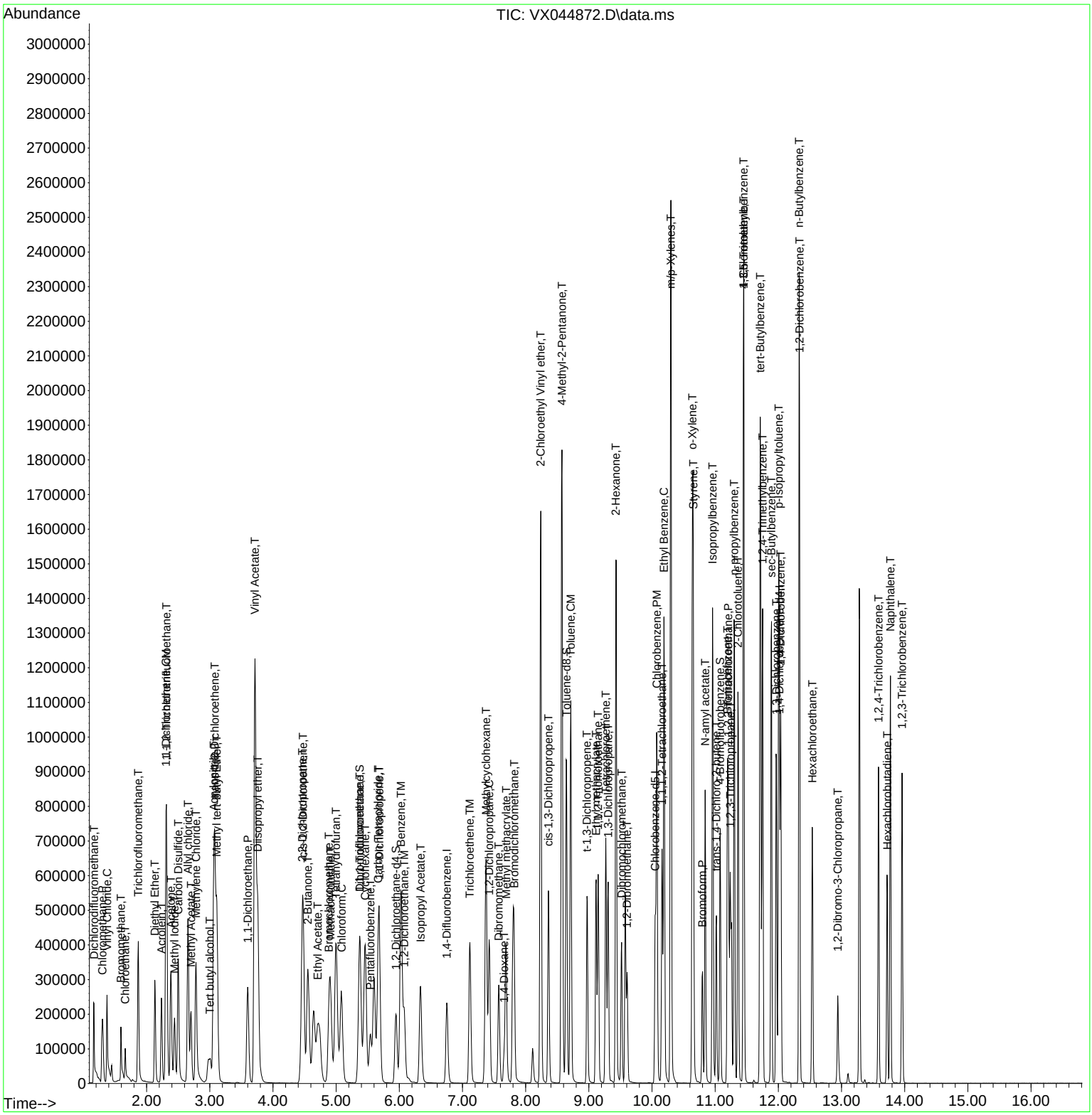
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

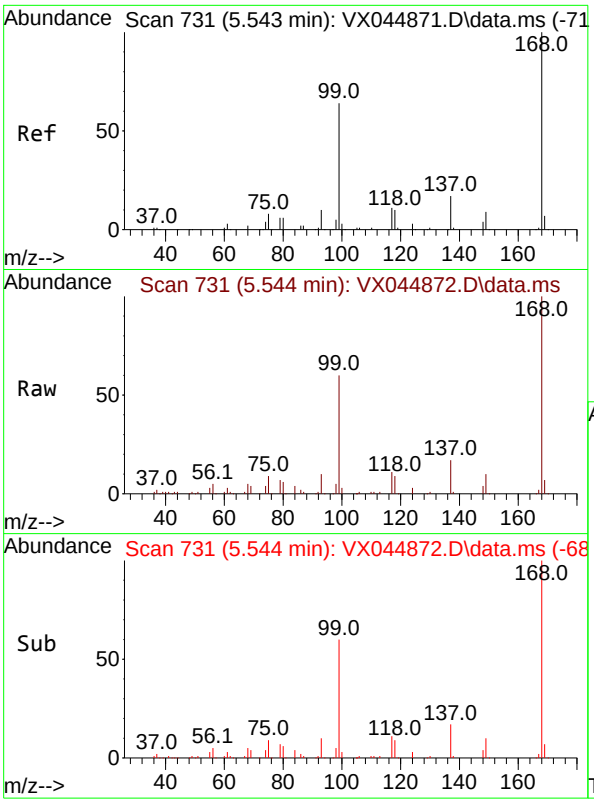
Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

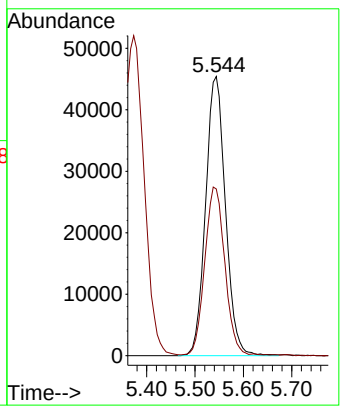




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:168 Resp: 12950

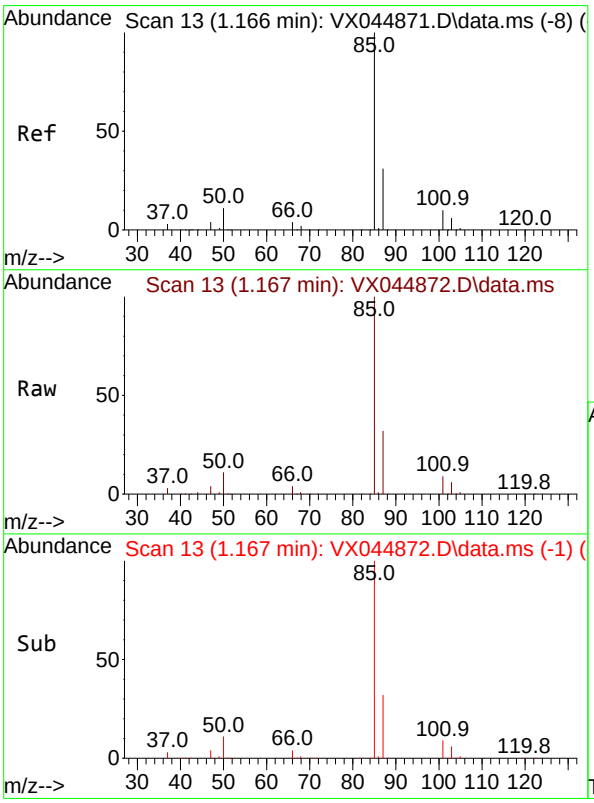
Ion	Ratio	Lower	Upper
168	100		
99	59.4	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

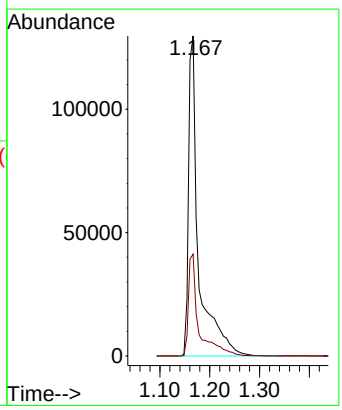
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

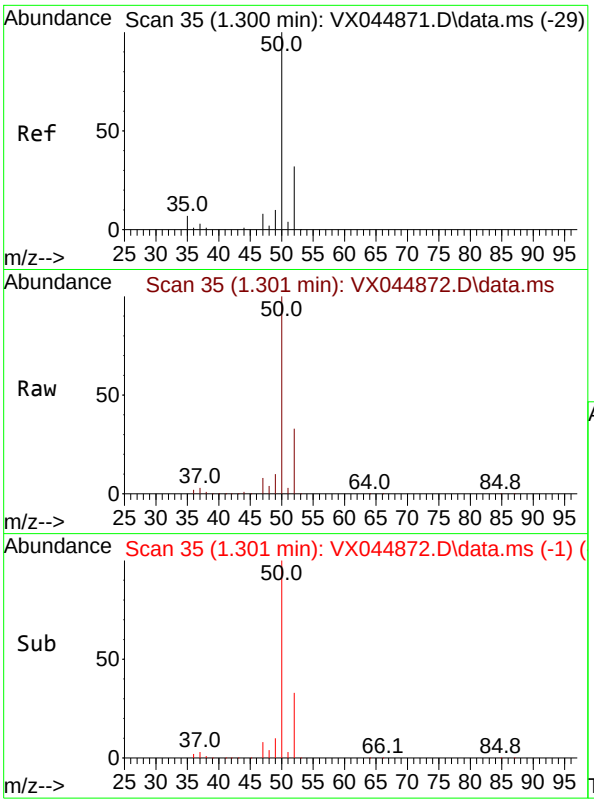


#2
Dichlorodifluoromethane
Concen: 100.632 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 85 Resp: 182788

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3

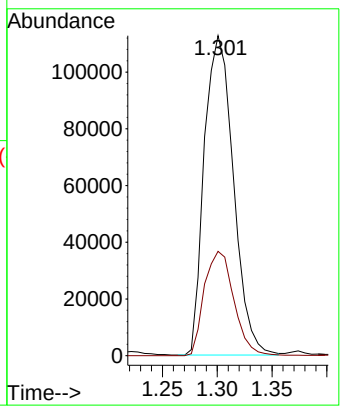




#3
Chloromethane
Concen: 94.275 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 50 Resp: 20841

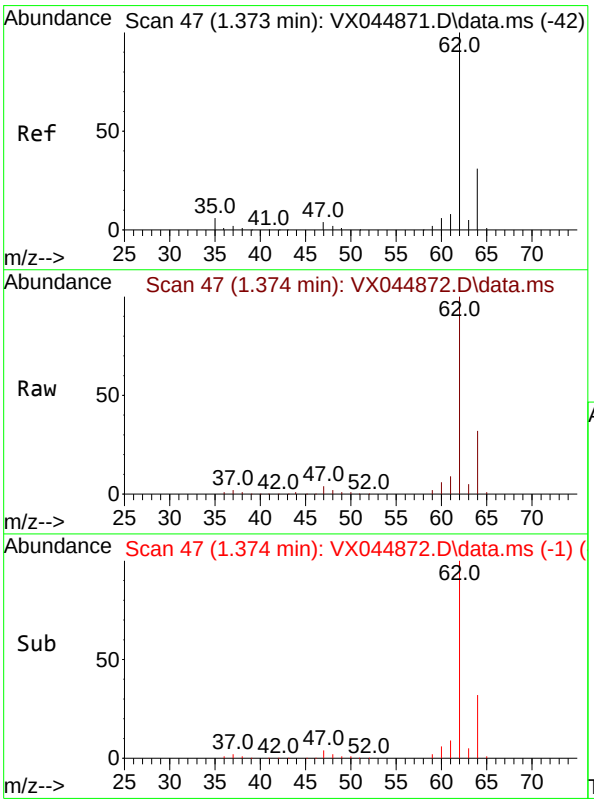
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

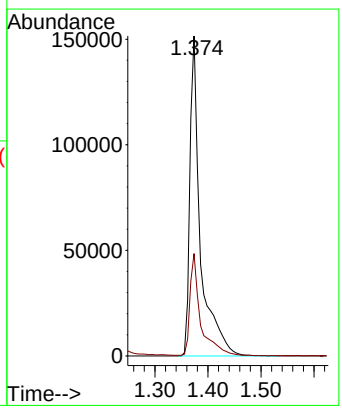
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

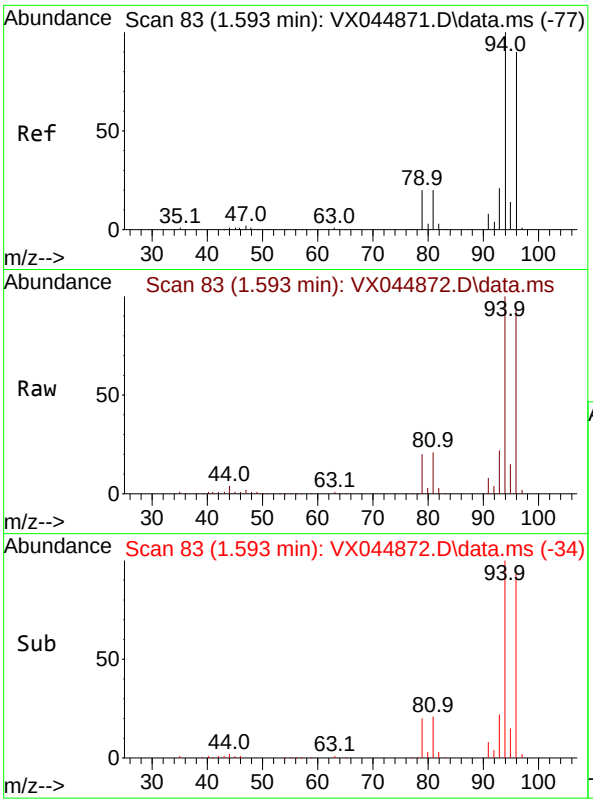


#4
Vinyl Chloride
Concen: 97.593 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 209017

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.4	38.0

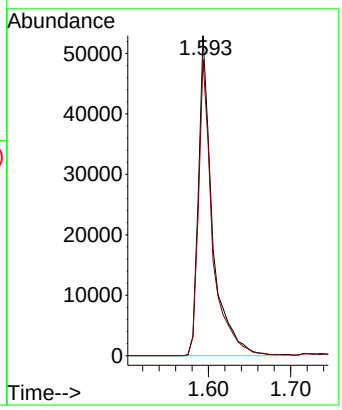




#5
Bromomethane
Concen: 97.984 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 94 Resp: 6279

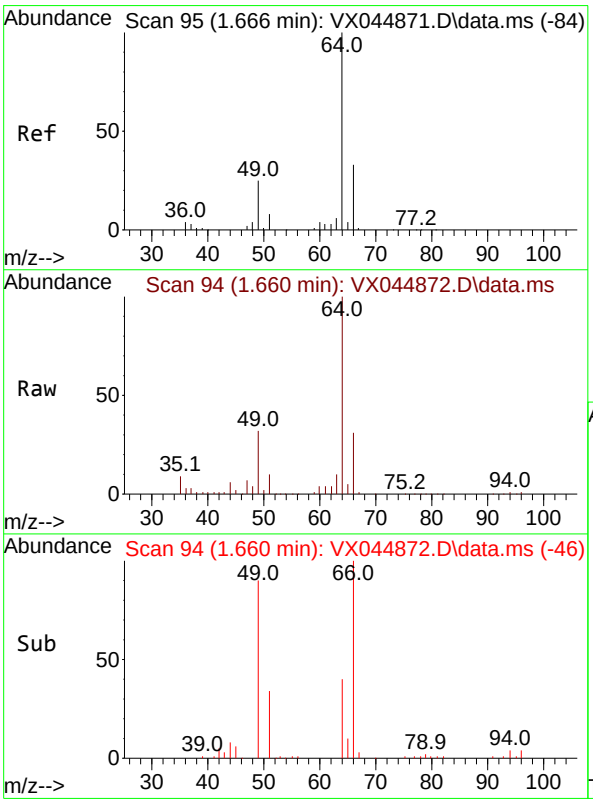
Ion	Ratio	Lower	Upper
94	100		
96	92.6	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

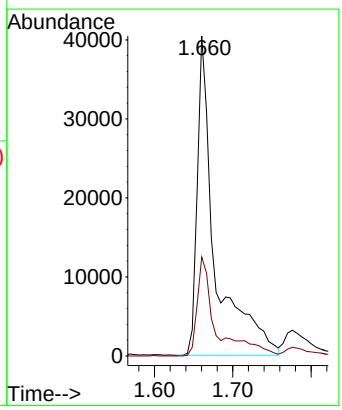
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

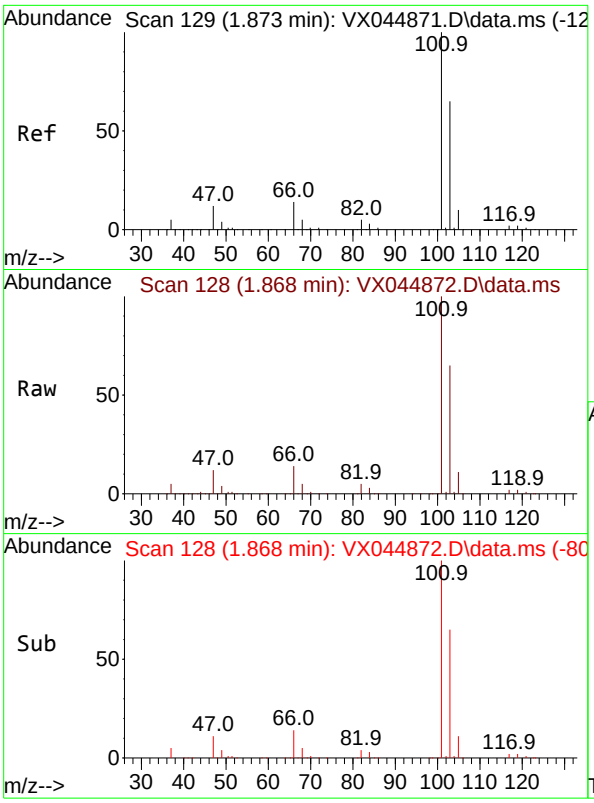


#6
Chloroethane
Concen: 100.253 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 64 Resp: 64581

Ion	Ratio	Lower	Upper
64	100		
66	31.0	25.9	38.9

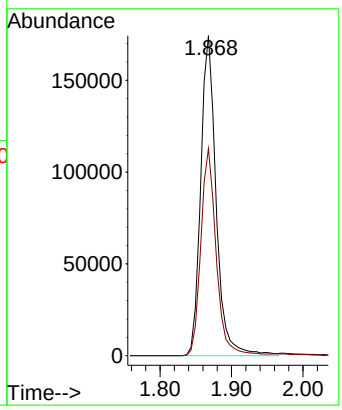




#7
Trichlorofluoromethane
Concen: 96.865 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:101 Resp: 26235

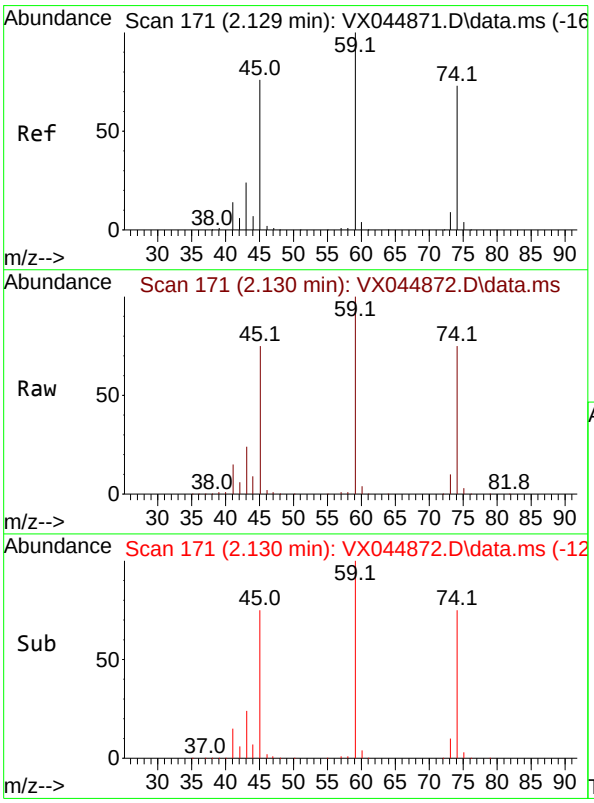
Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

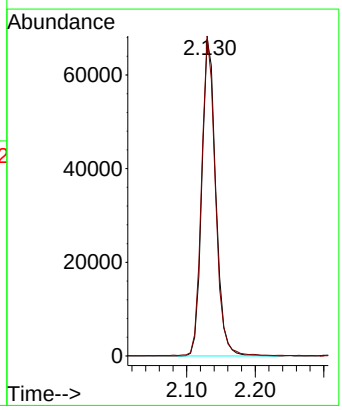
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

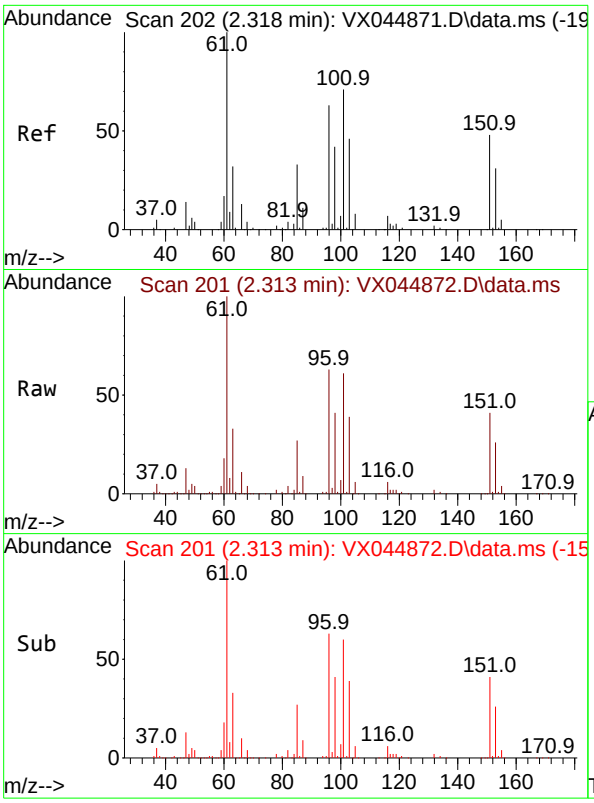


#8
Diethyl Ether
Concen: 97.647 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 74 Resp: 95914

Ion	Ratio	Lower	Upper
74	100		
45	99.5	51.1	153.4

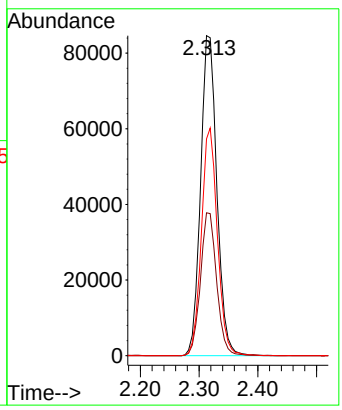




#9
1,1,2-Trichlorotrifluoroethane
Concen: 99.860 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:101 Resp: 16341

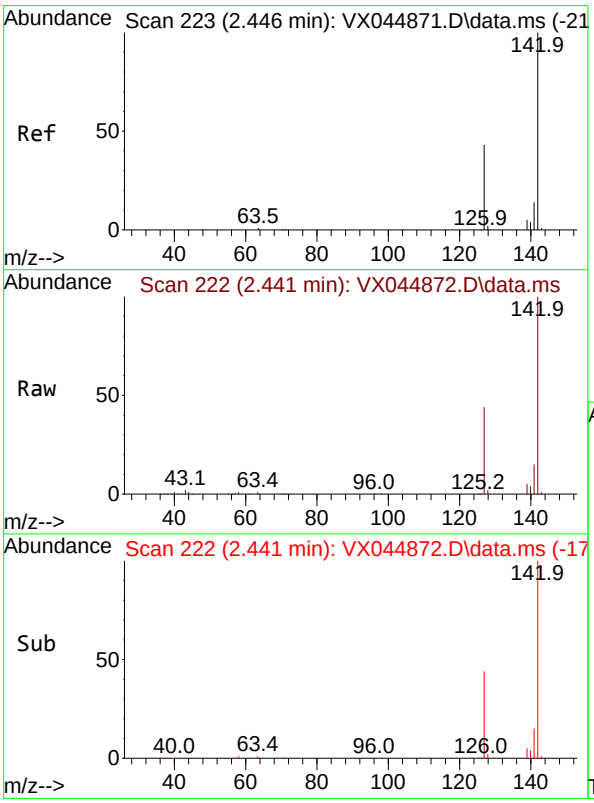
Ion	Ratio	Lower	Upper
101	100		
85	44.3	35.7	53.5
151	69.8	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

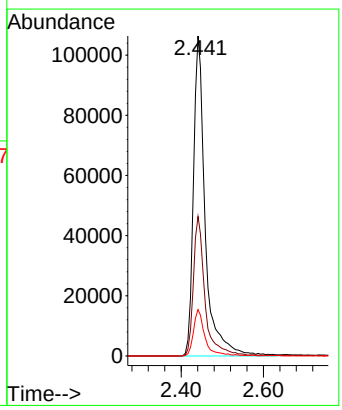
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

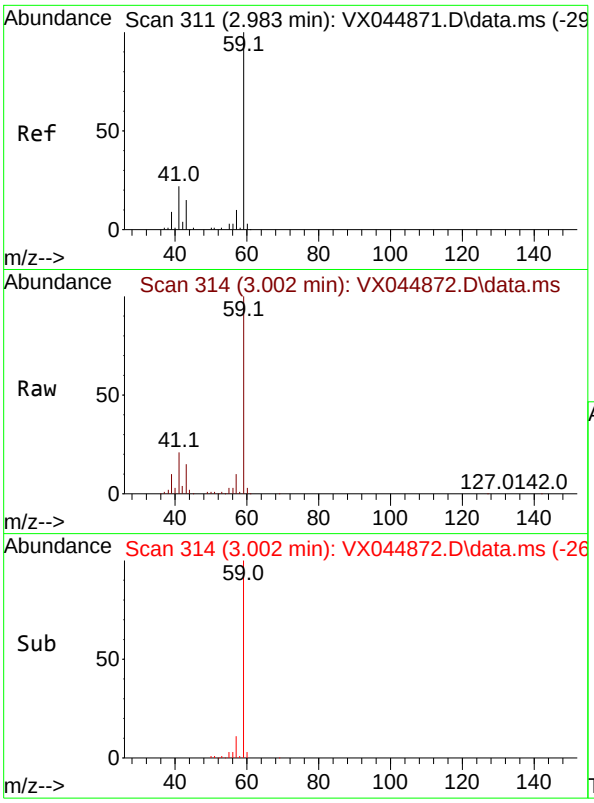


#10
Methyl Iodide
Concen: 100.016 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:142 Resp: 212118

Ion	Ratio	Lower	Upper
142	100		
127	42.5	34.3	51.5
141	14.1	11.4	17.2





#11
Tert butyl alcohol
Concen: 469.903 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.019 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

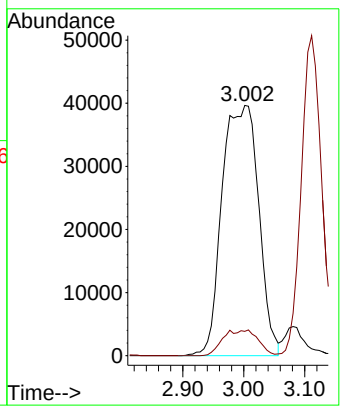
Tgt Ion: 59 Resp: 16526

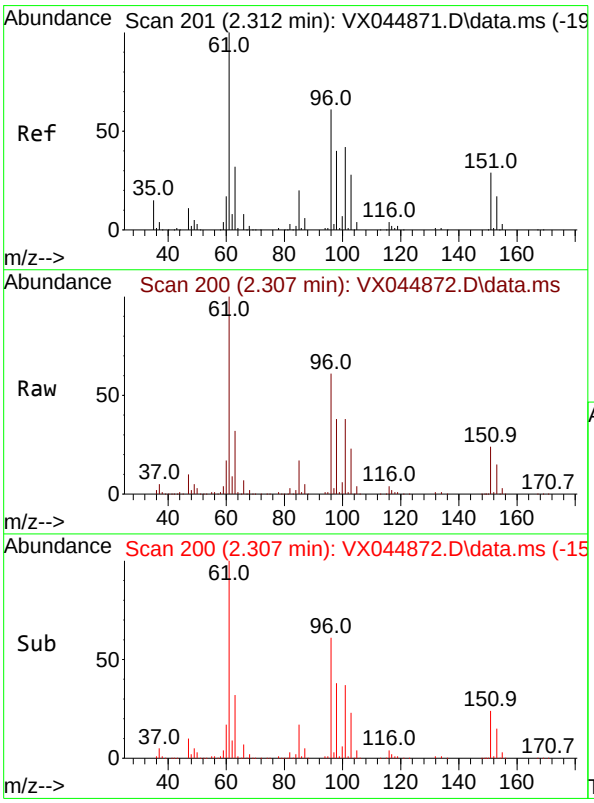
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

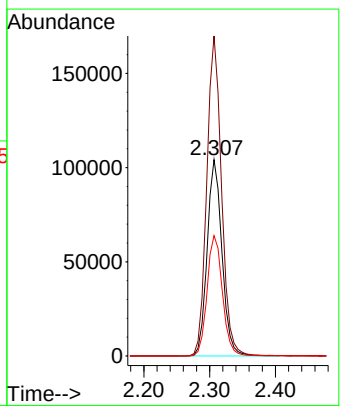


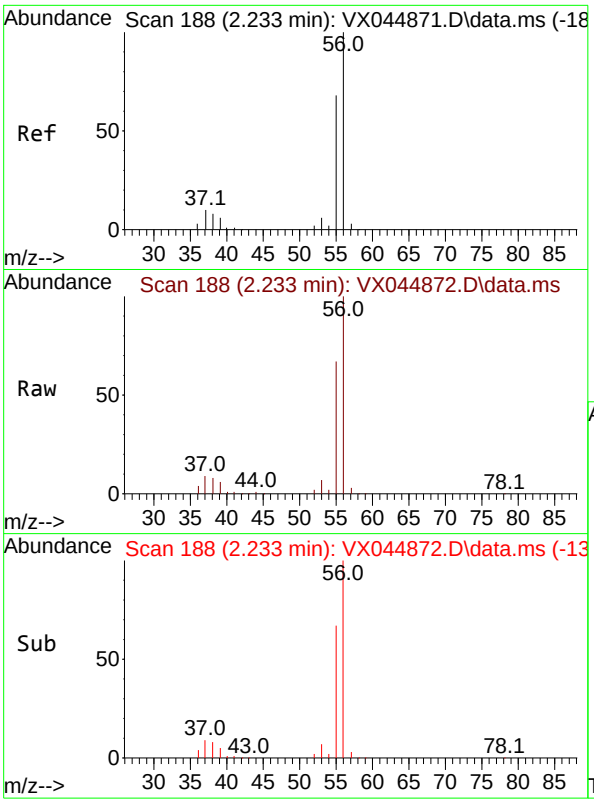


#12
1,1-Dichloroethene
Concen: 98.004 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 96 Resp: 163593

Ion	Ratio	Lower	Upper
96	100		
61	162.9	130.2	195.4
98	61.3	52.2	78.4

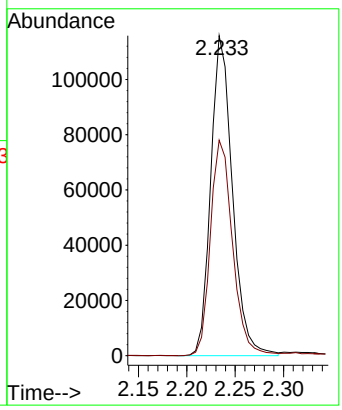




#13
Acrolein
Concen: 497.628 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 56 Resp: 18057

Ion	Ratio	Lower	Upper
56	100		
55	68.9	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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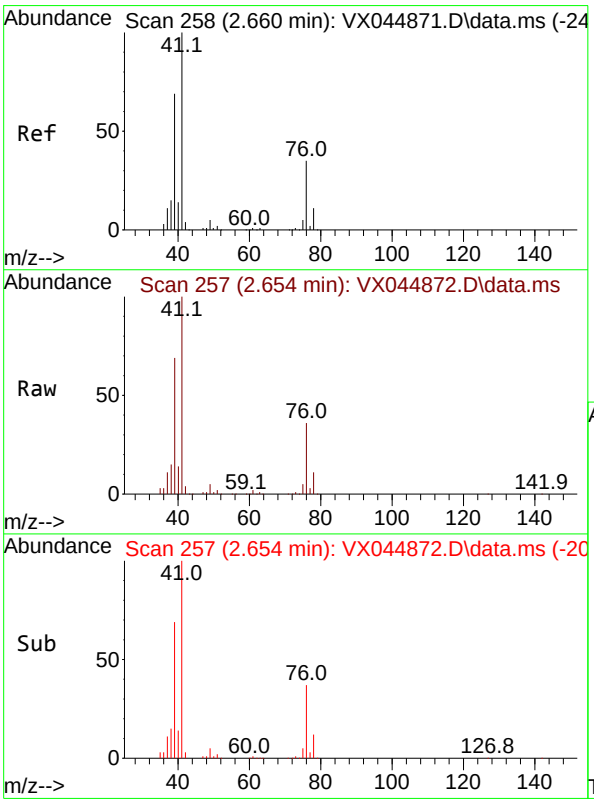
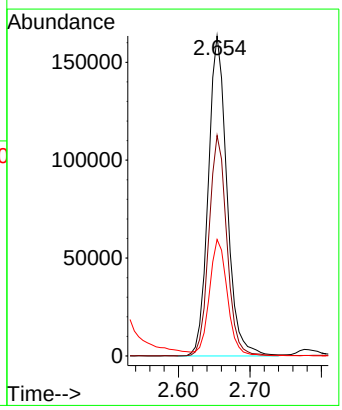
Supervised By :Mahesh Dadoda 02/11/2025

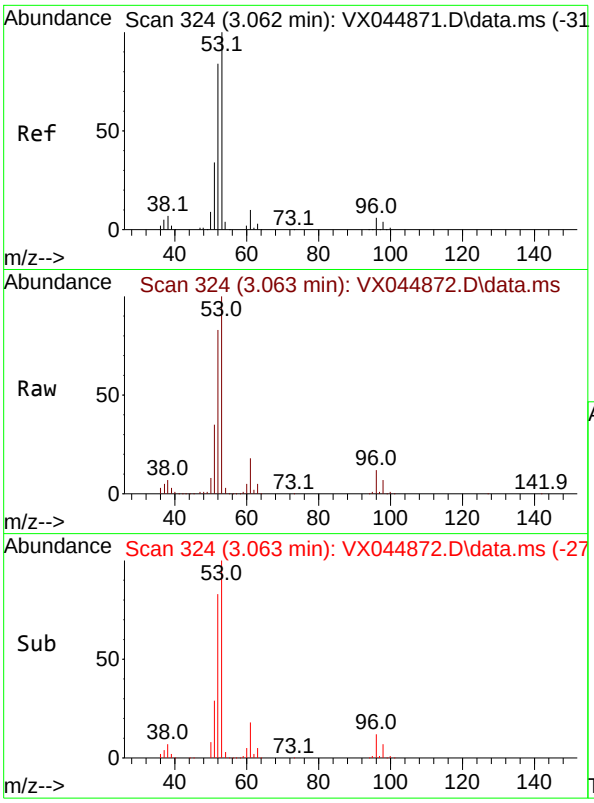


#14
Allyl chloride
Concen: 98.624 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 297526

Ion	Ratio	Lower	Upper
41	100		
39	65.6	51.4	77.2
76	34.9	27.0	40.4

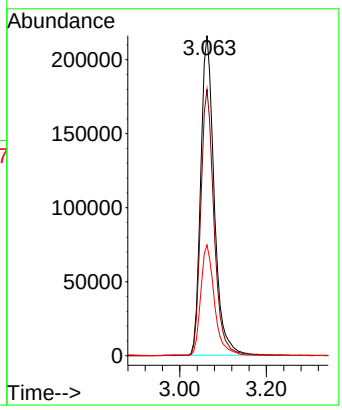




#15
Acrylonitrile
Concen: 497.173 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 53 Resp: 46685

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.0	97.6
51	34.9	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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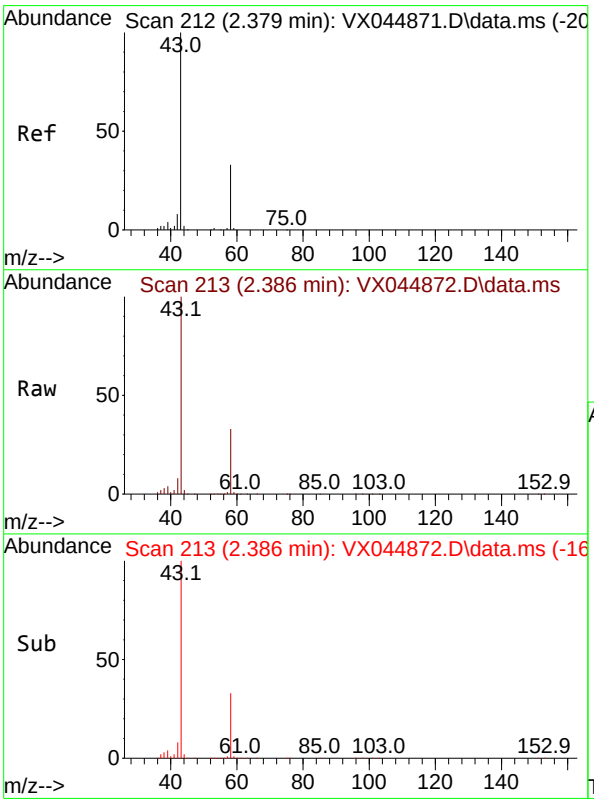
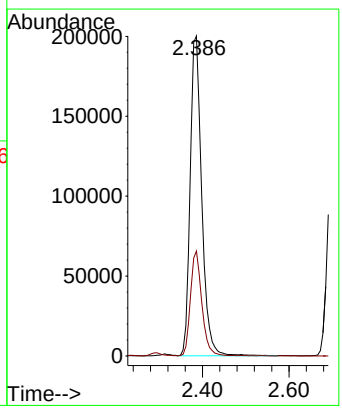
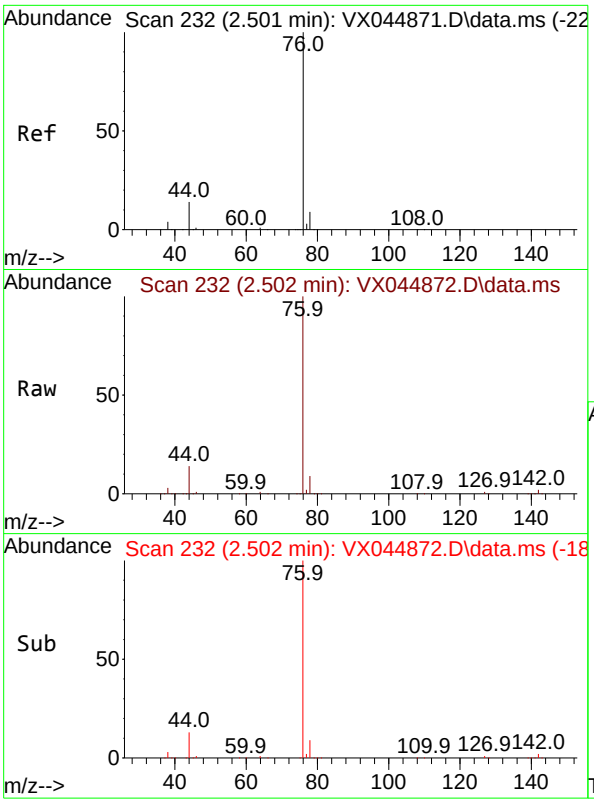


#16
Acetone
Concen: 485.125 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.007 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 369720

Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.5	39.7

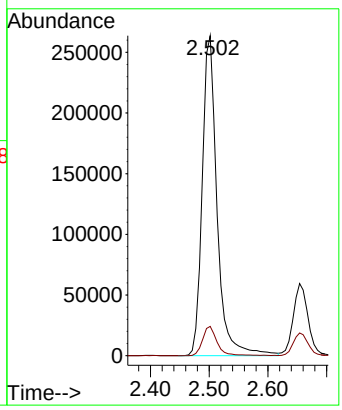




#17
Carbon Disulfide
Concen: 101.216 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 76 Resp: 46330

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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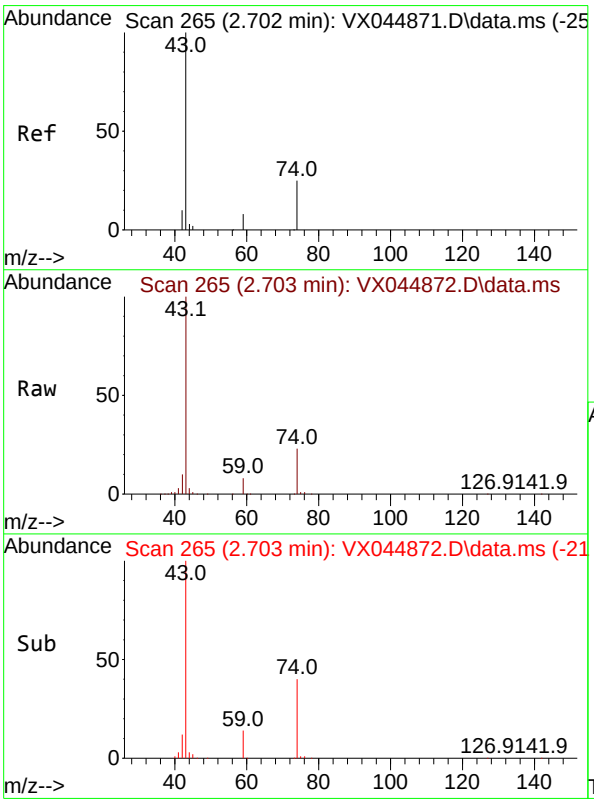
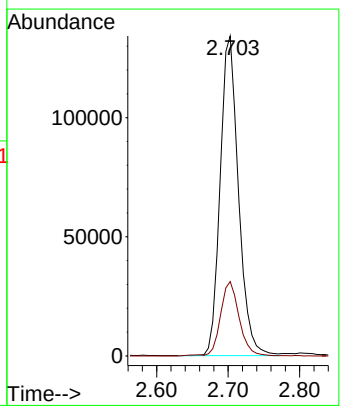
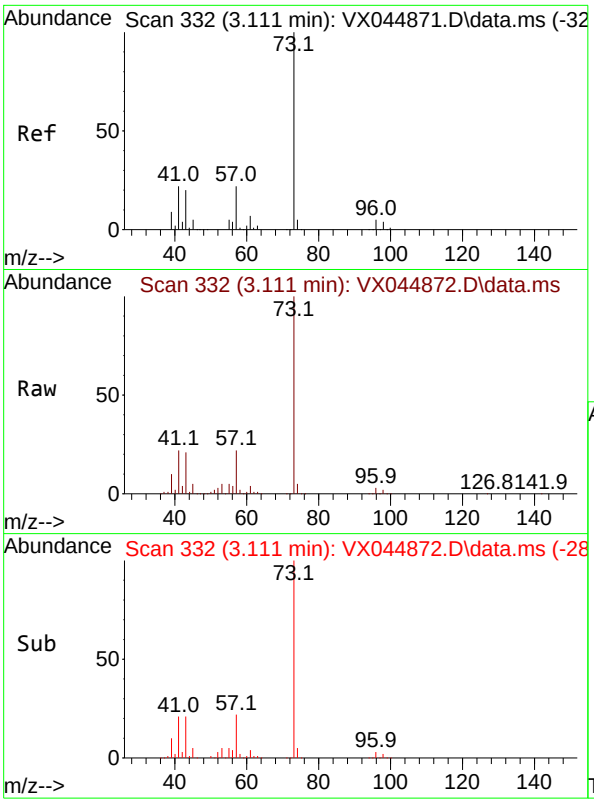


#18
Methyl Acetate
Concen: 99.249 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 238689

Ion	Ratio	Lower	Upper
43	100		
74	23.8	18.9	28.3

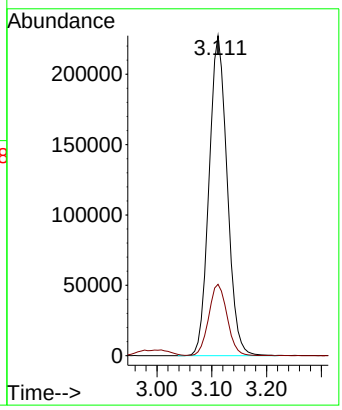




#19
Methyl tert-butyl Ether
Concen: 98.098 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 73 Resp: 52100

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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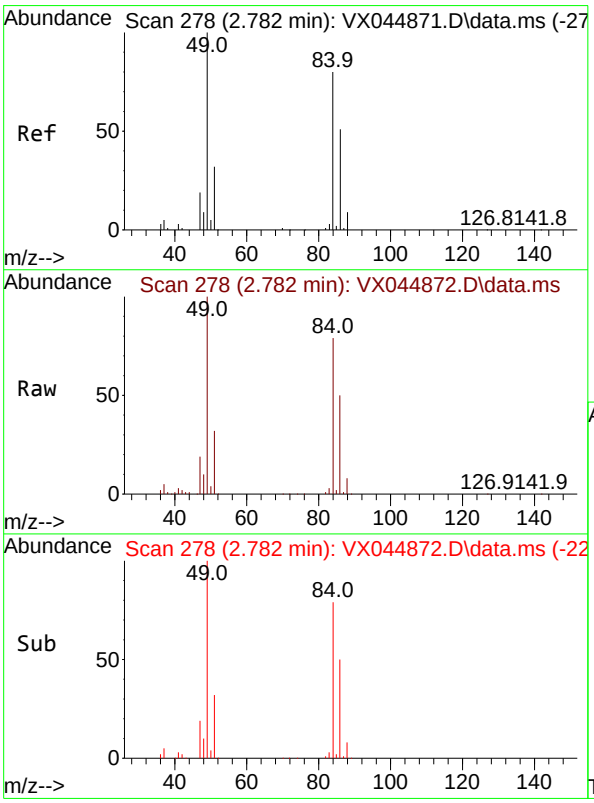
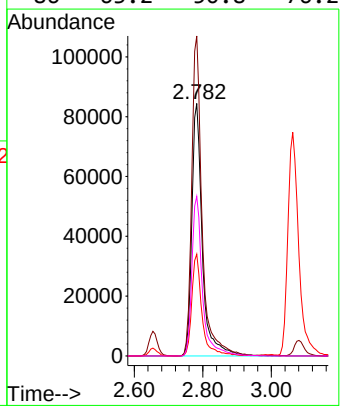
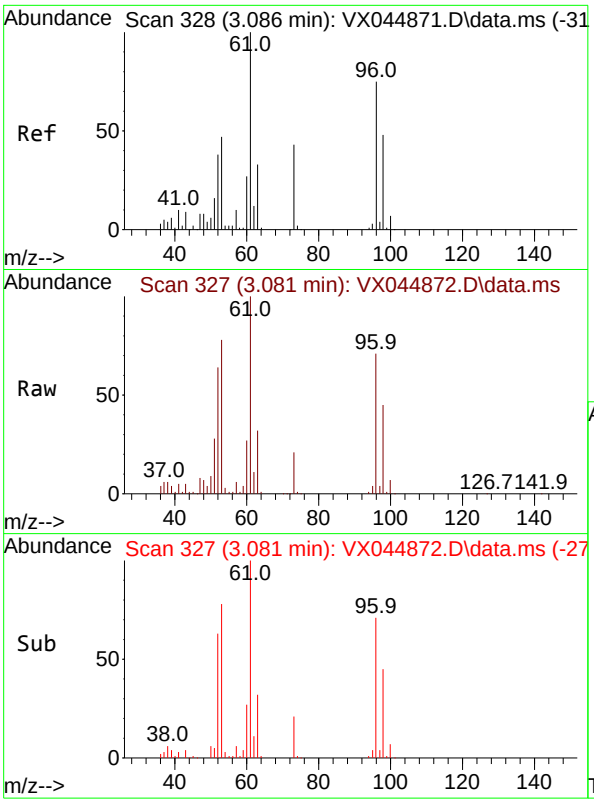


#20
Methylene Chloride
Concen: 96.490 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 84 Resp: 180120

Ion	Ratio	Lower	Upper
84	100		
49	126.7	100.1	150.1
51	40.3	31.7	47.5
86	63.2	50.8	76.2

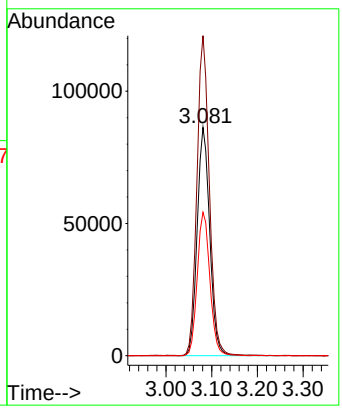




#21
trans-1,2-Dichloroethene
Concen: 99.864 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 96 Resp: 16406

Ion	Ratio	Lower	Upper
96	100		
61	140.2	106.0	159.0
98	62.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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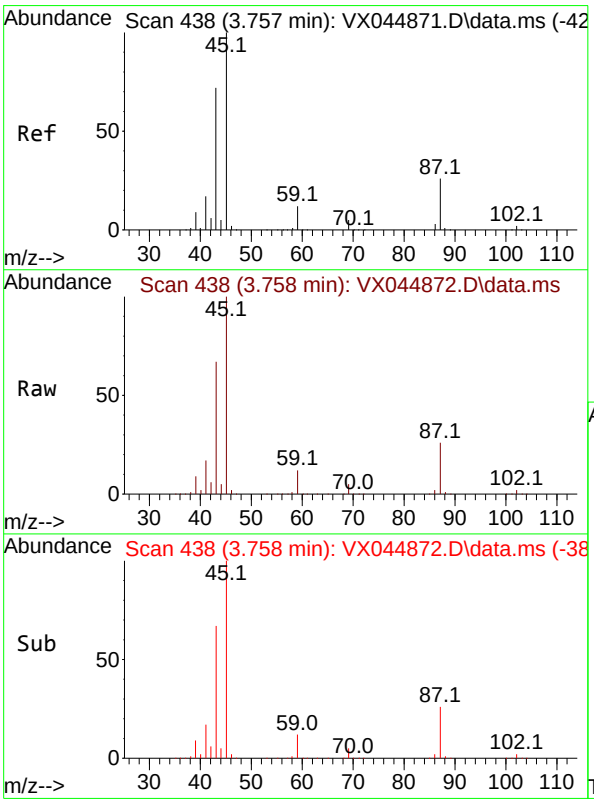
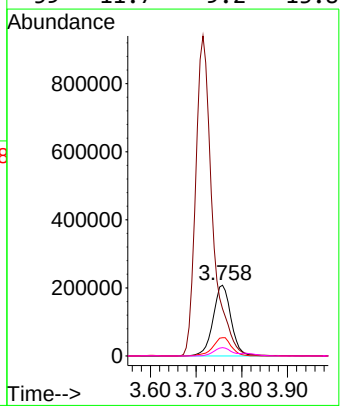
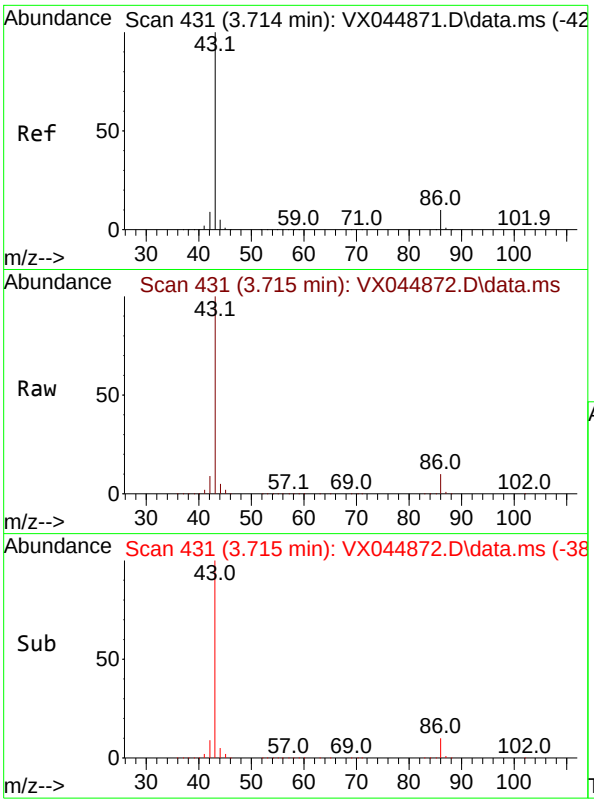


#22
Diisopropyl ether
Concen: 99.157 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 45 Resp: 565927

Ion	Ratio	Lower	Upper
45	100		
43	66.7	58.0	87.0
87	25.7	20.7	31.1
59	11.7	9.2	13.8

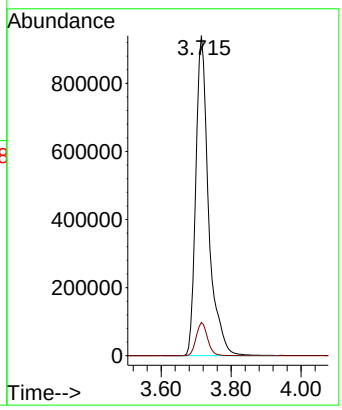




#23
Vinyl Acetate
Concen: 513.051 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 238720

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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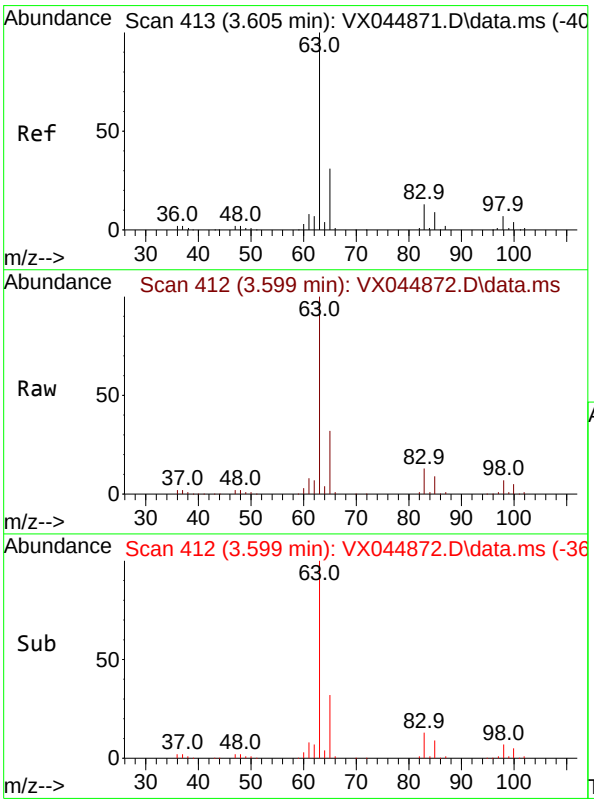
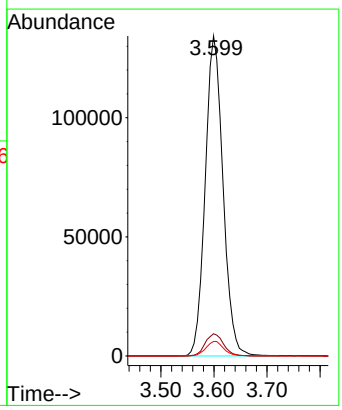
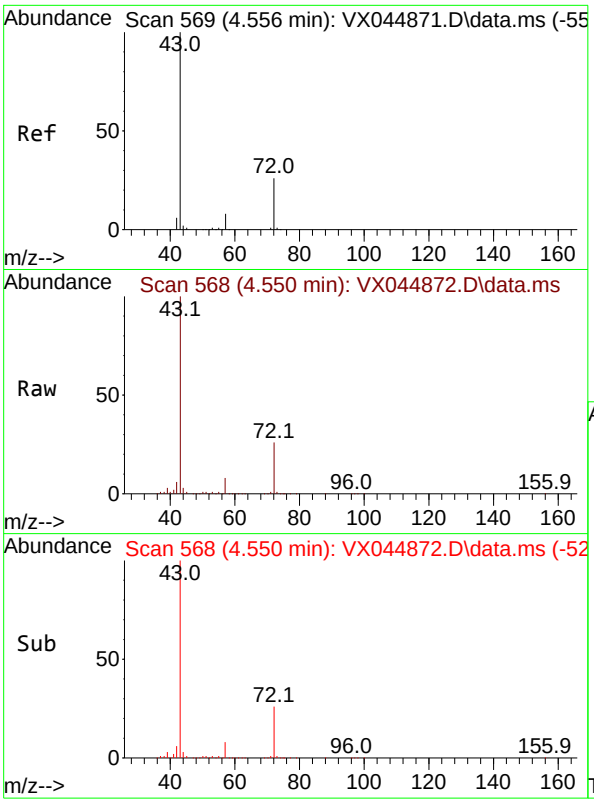


#24
1,1-Dichloroethane
Concen: 98.064 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 313164

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.5	2.1	6.5





#25
2-Butanone
Concen: 498.801 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 61728

Ion	Ratio	Lower	Upper
43	100		
72	25.4	21.2	31.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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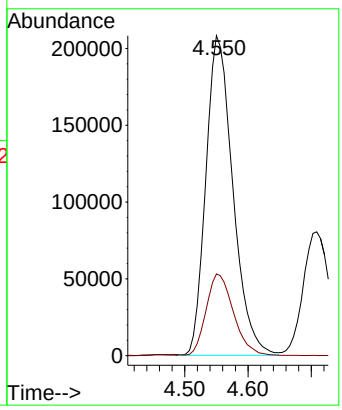
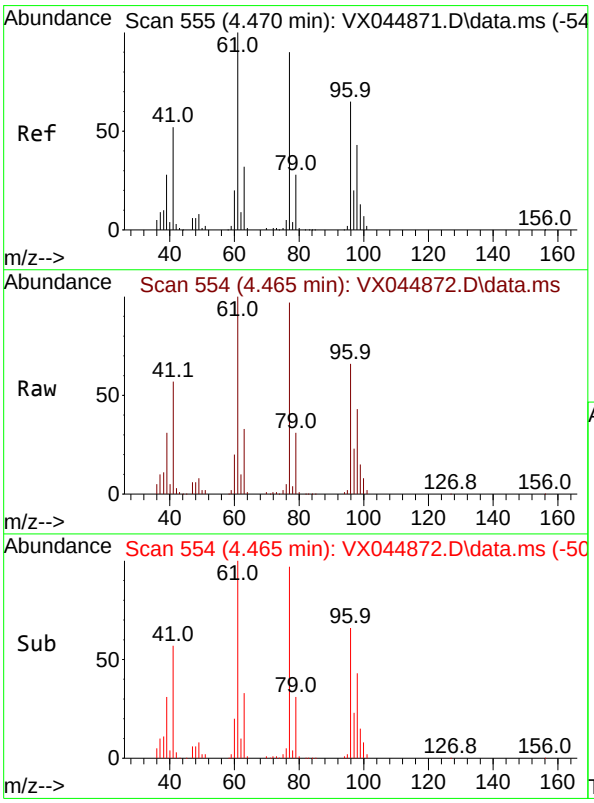
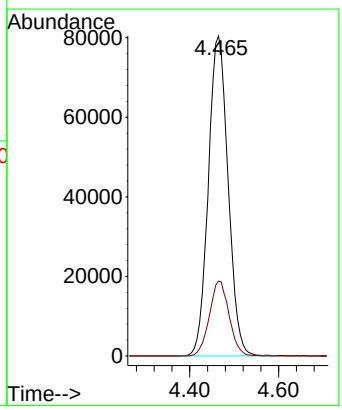


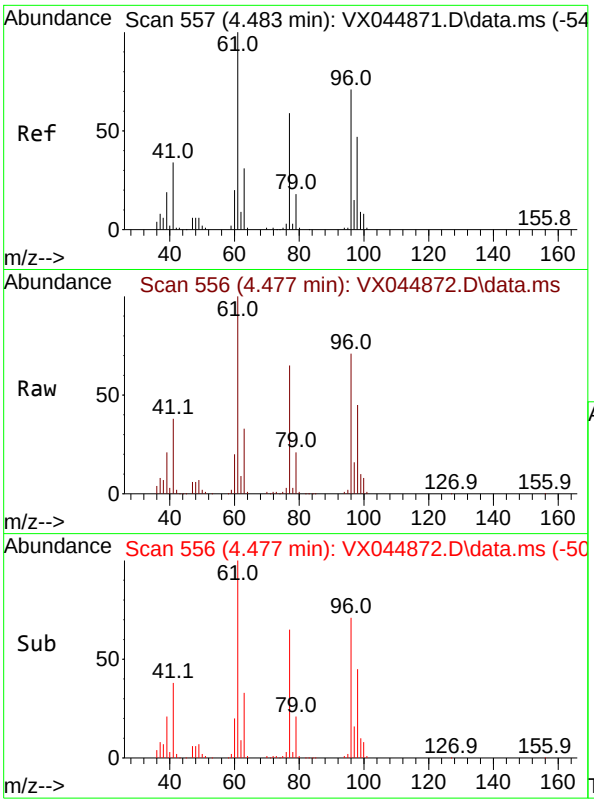


#26
2,2-Dichloropropane
Concen: 98.053 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 77 Resp: 248324

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.8	35.3

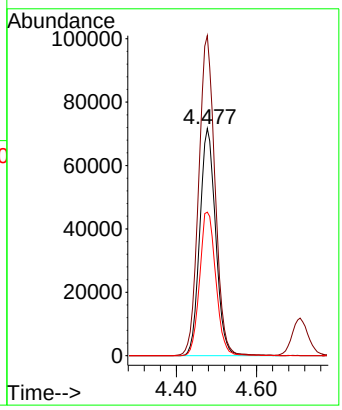




#27
cis-1,2-Dichloroethene
Concen: 99.513 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 96 Resp: 19638

Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	294.0
98	64.6	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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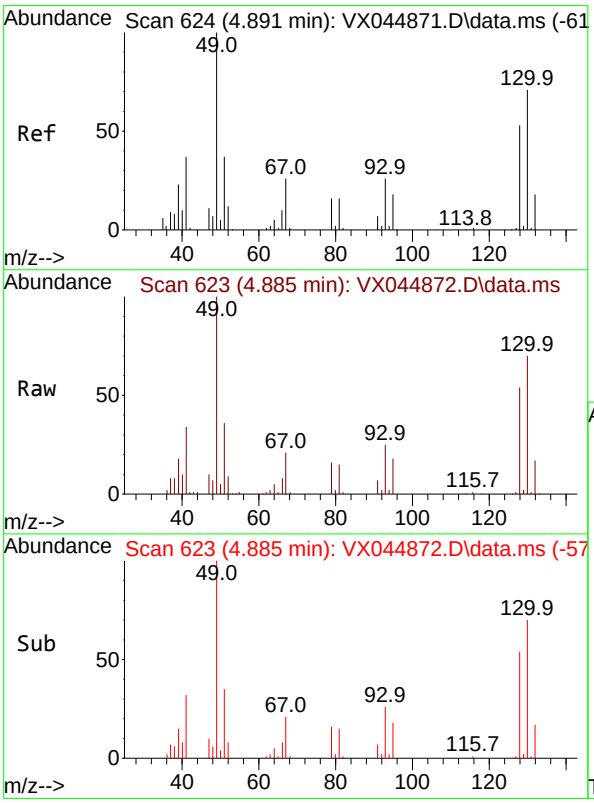
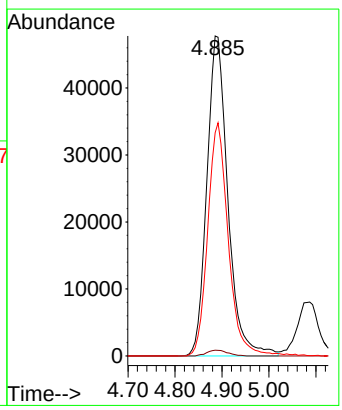
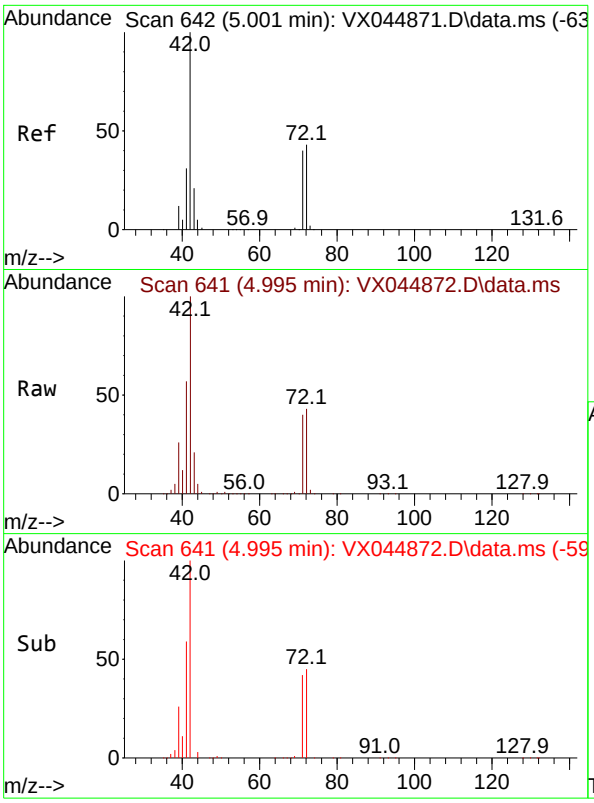


#28
Bromochloromethane
Concen: 96.524 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 49 Resp: 148137

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	71.1	56.7	85.1

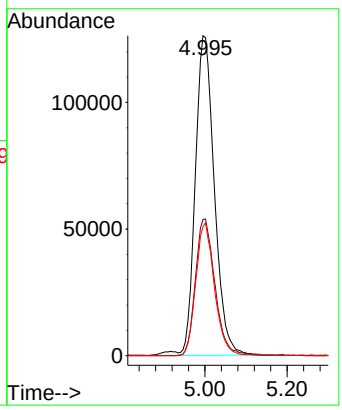




#29
Tetrahydrofuran
Concen: 493.104 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 42 Resp: 40520

Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.0	52.4
71	40.8	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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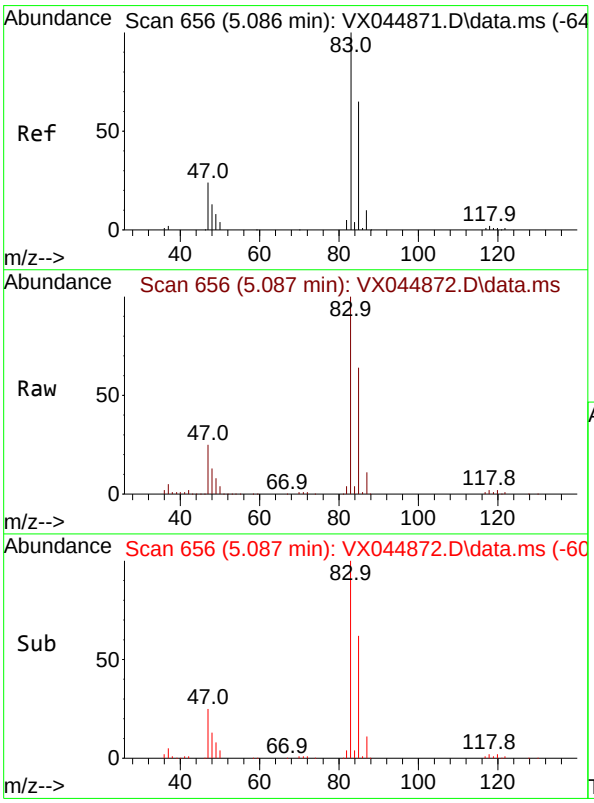
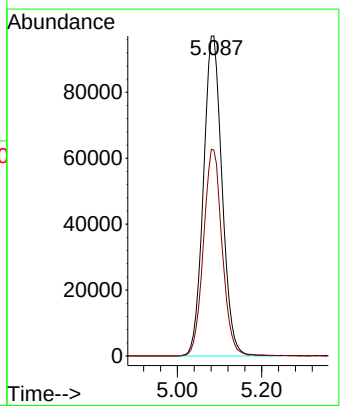
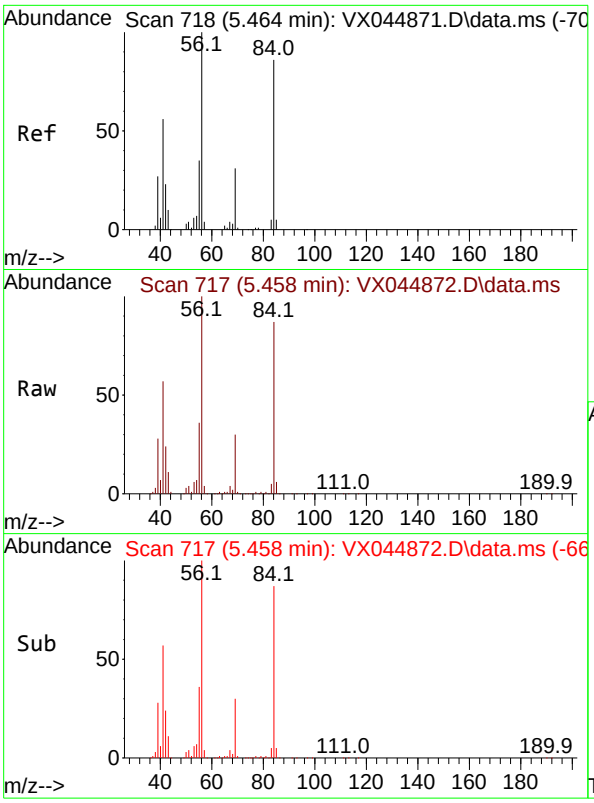


#30
Chloroform
Concen: 96.445 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 298690

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1

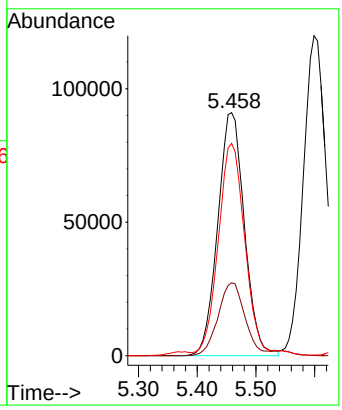




#31
Cyclohexane
Concen: 97.426 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 56 Resp: 28683

Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	85.7	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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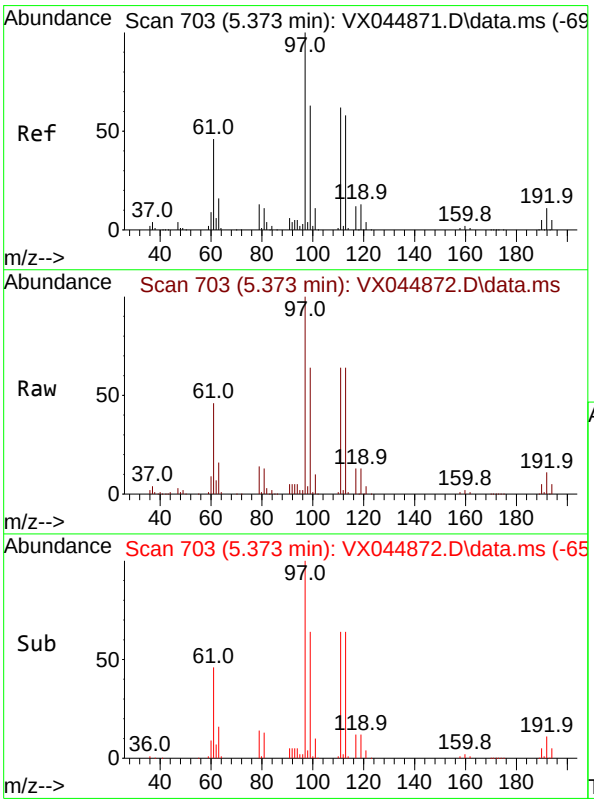
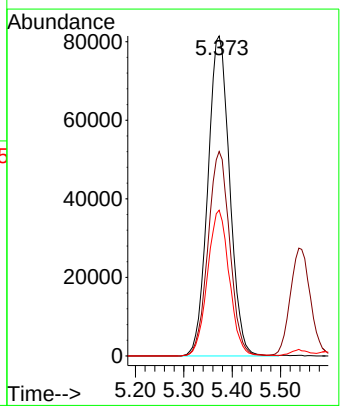
Supervised By :Mahesh Dadoda 02/11/2025

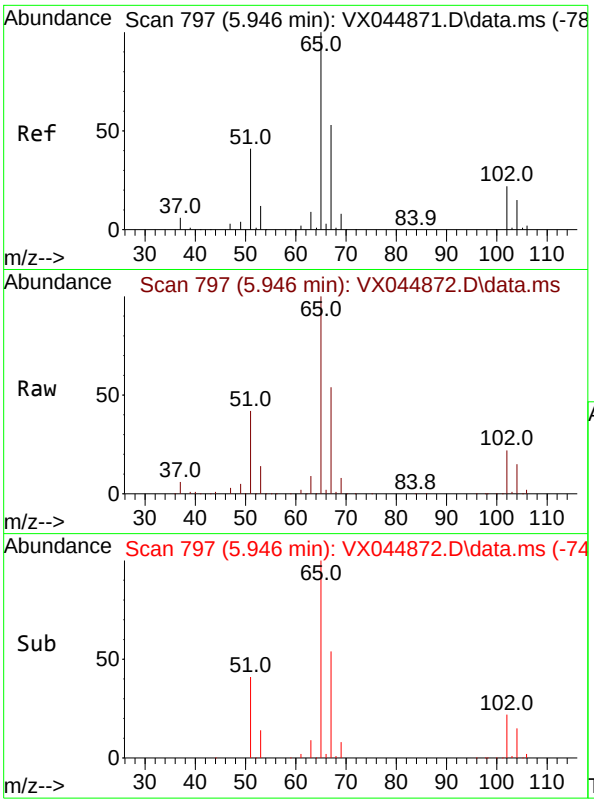


#32
1,1,1-Trichloroethane
Concen: 97.050 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 97 Resp: 254941

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.8	36.6	55.0

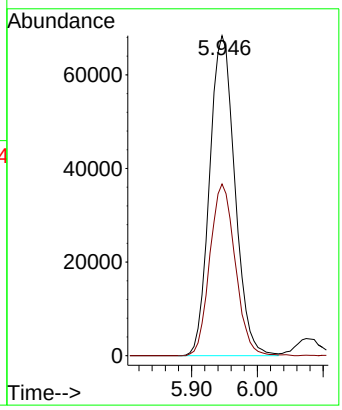




#33
1,2-Dichloroethane-d4
Concen: 96.580 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 65 Resp: 18309

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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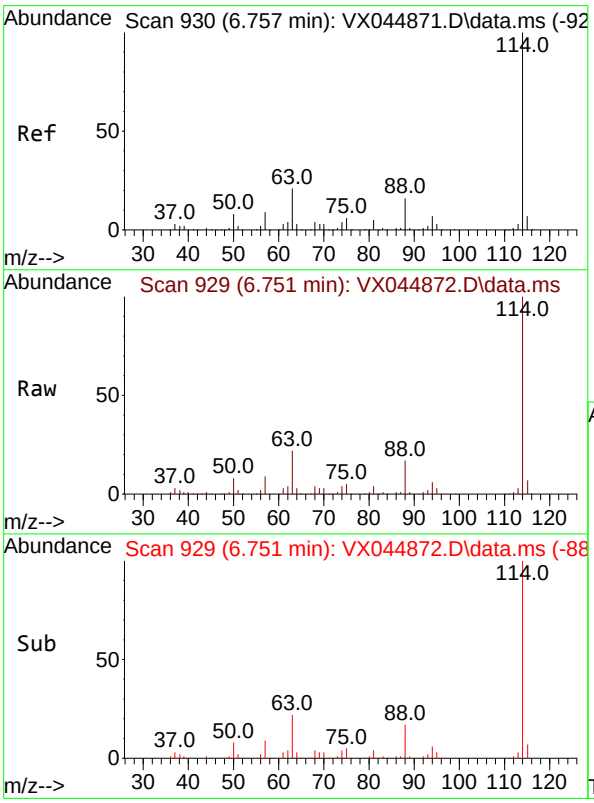
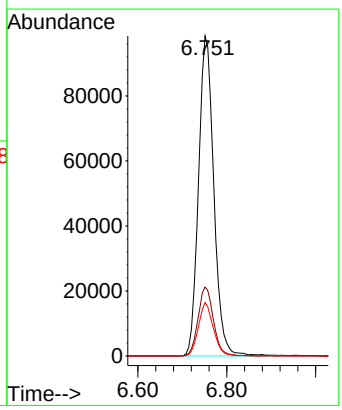
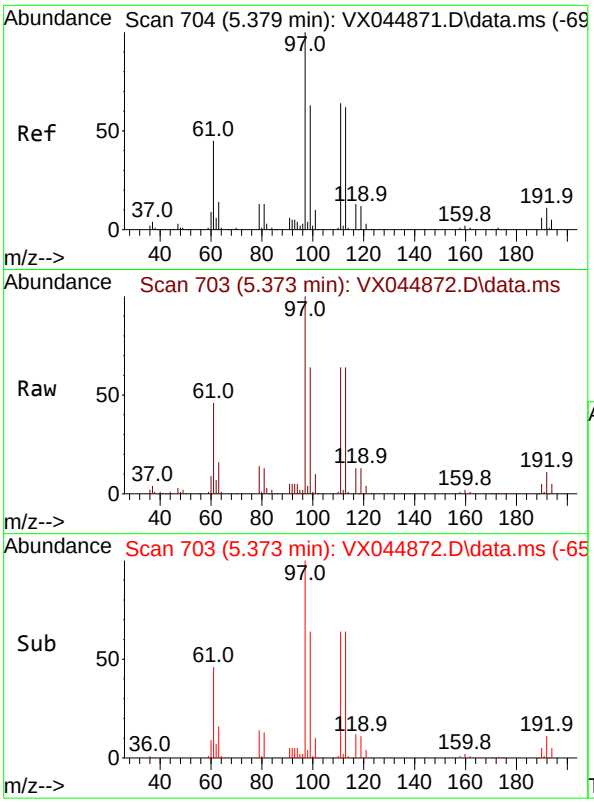


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:114 Resp: 236372

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.4
88	16.7	0.0	31.4

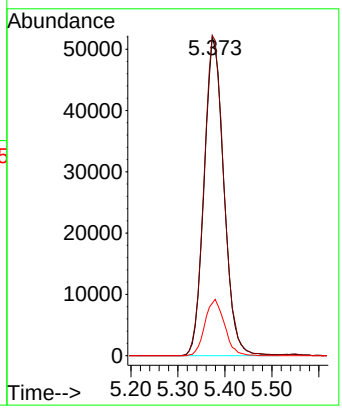




#35
Dibromofluoromethane
Concen: 98.404 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:113 Resp: 15122

Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.5	125.3
192	17.6	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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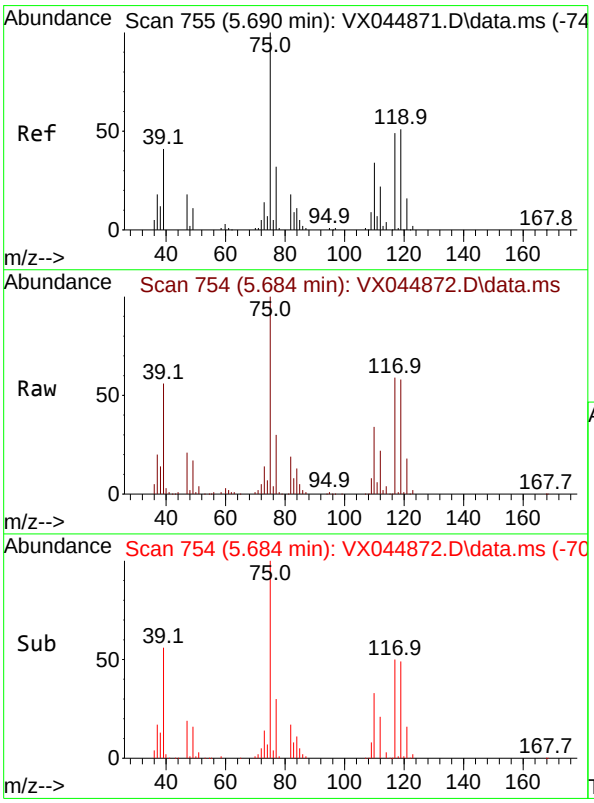
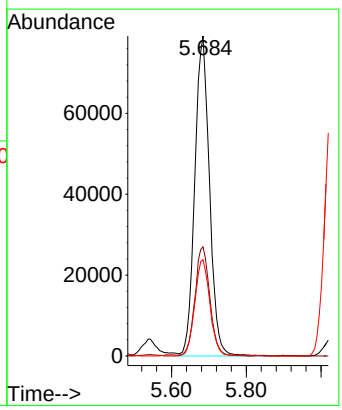
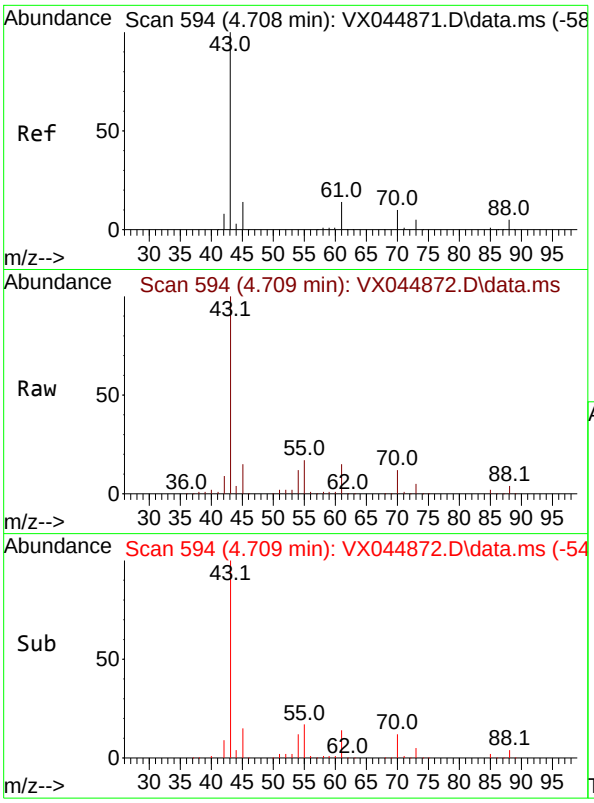


#36
1,1-Dichloropropene
Concen: 97.422 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 216005

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.9	24.6	37.0

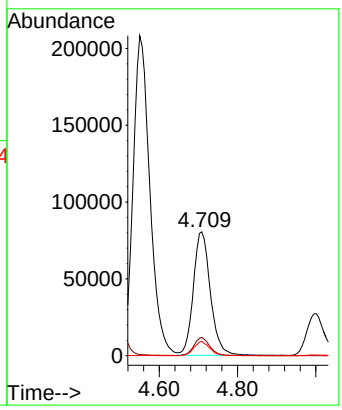




#37
Ethyl Acetate
Concen: 99.005 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 24416

Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.0	16.4
70	10.6	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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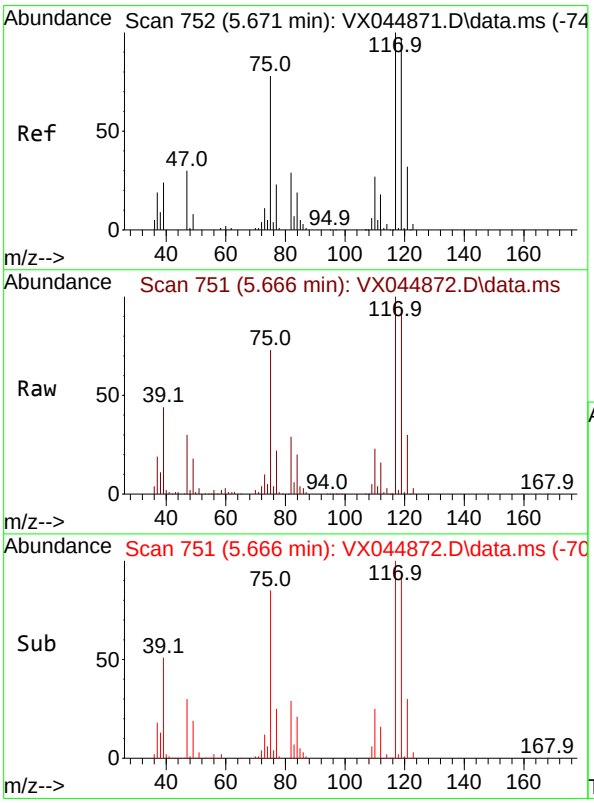
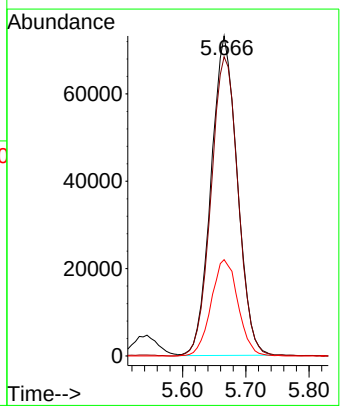
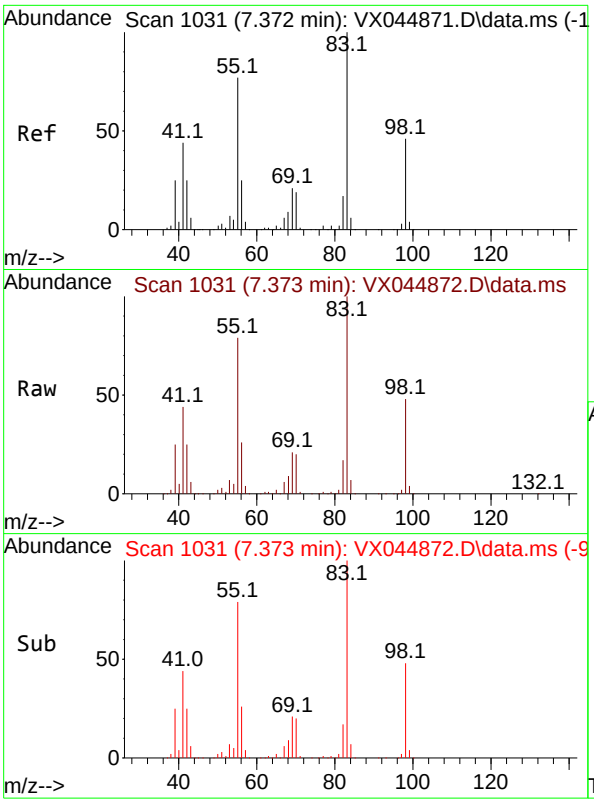


#38
Carbon Tetrachloride
Concen: 96.828 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 210381

Ion	Ratio	Lower	Upper
117	100		
119	93.6	77.5	116.3
121	30.2	25.6	38.4





#39
Methylcyclohexane
Concen: 104.554 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 29970

Ion	Ratio	Lower	Upper
83	100		
55	78.5	61.3	91.9
98	47.8	37.0	55.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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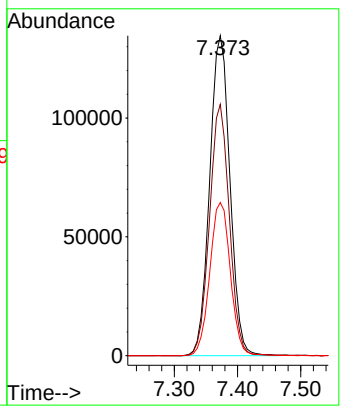
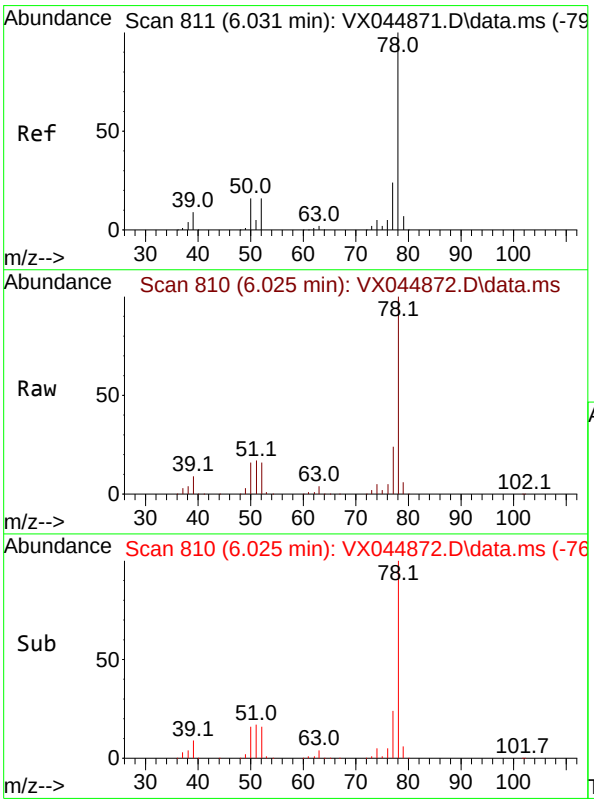
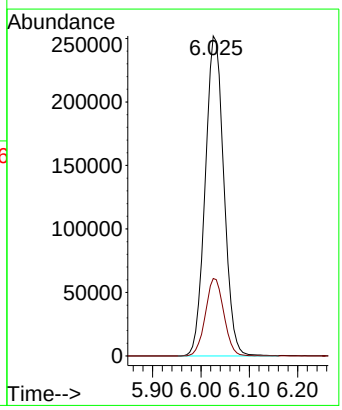


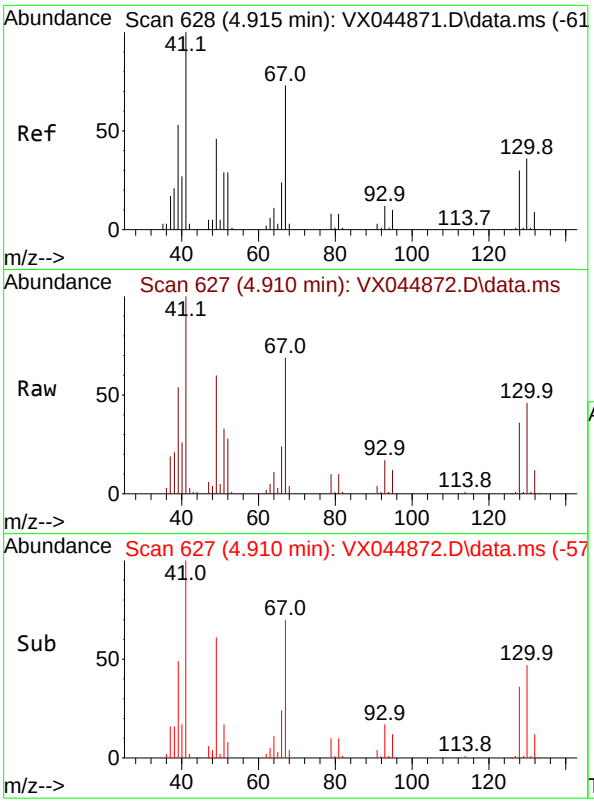


#40
Benzene
Concen: 97.576 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 78 Resp: 675556

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6

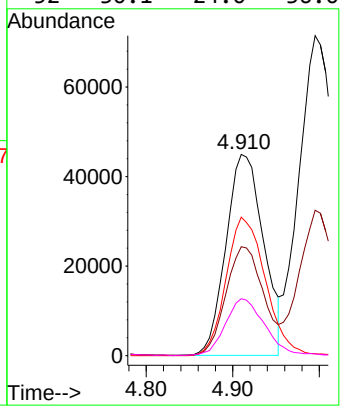




#41
Methacrylonitrile
Concen: 102.745 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 13562

Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.1	64.7
67	72.4	57.0	85.6
52	30.1	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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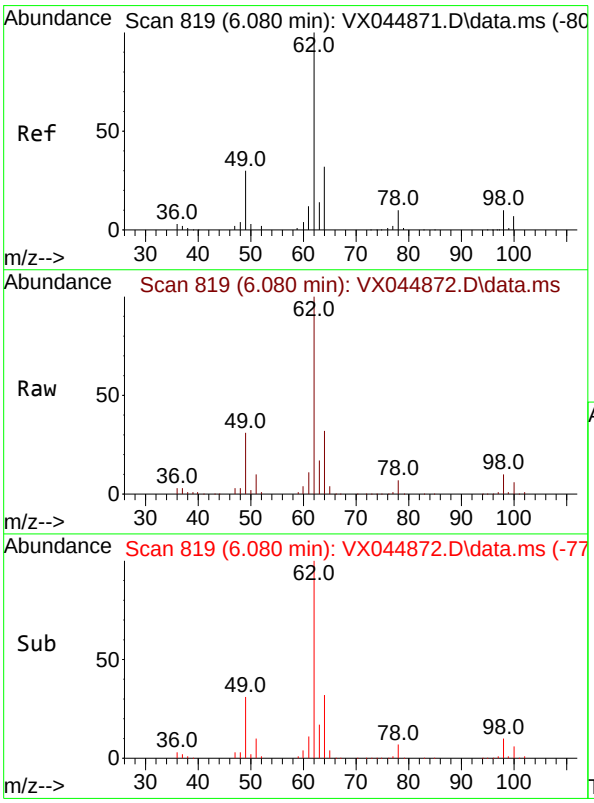
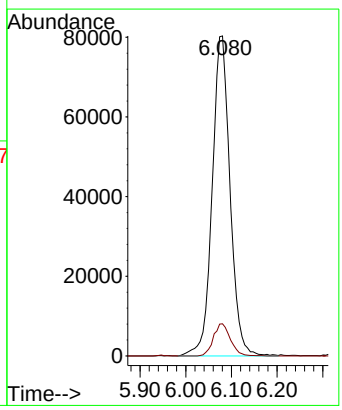
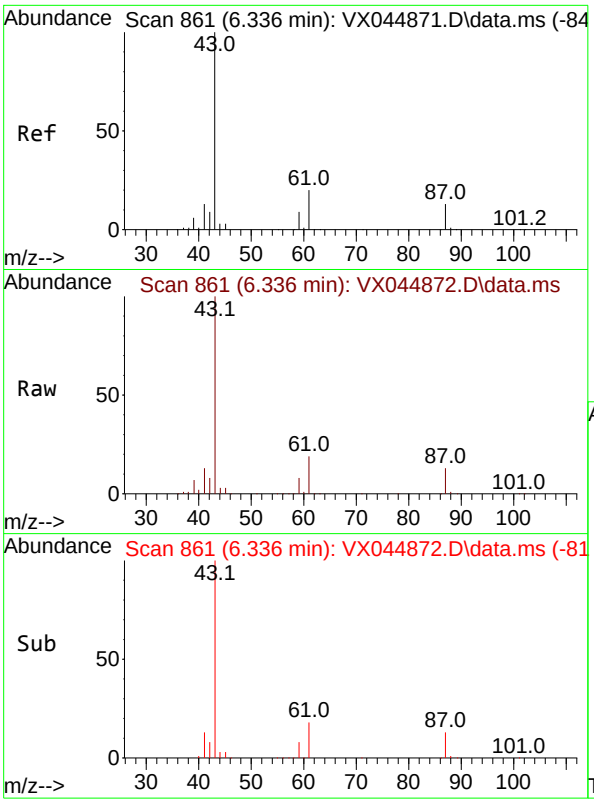


#42
1,2-Dichloroethane
Concen: 98.875 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 218174

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4

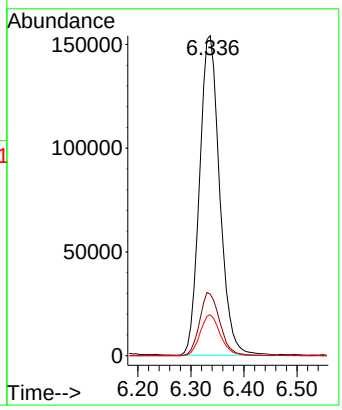




#43
Isopropyl Acetate
Concen: 101.818 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 40548

Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.8
87	12.8	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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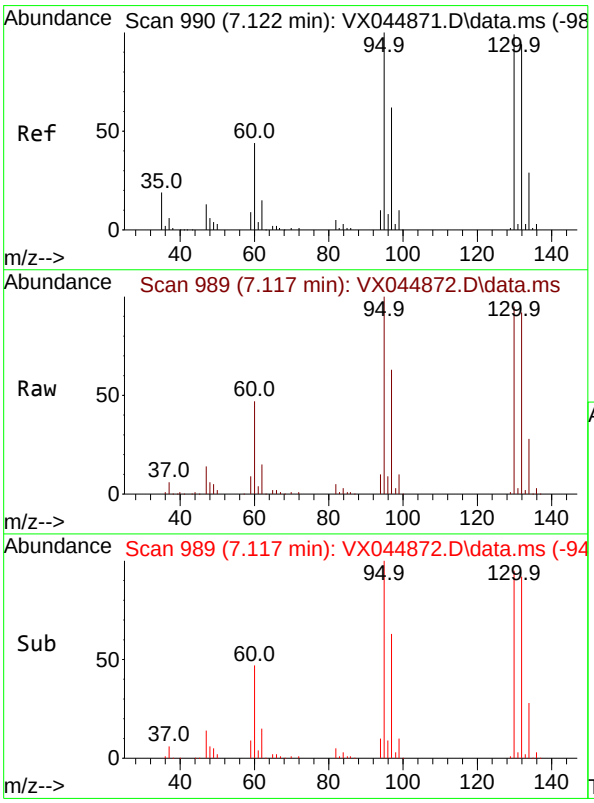
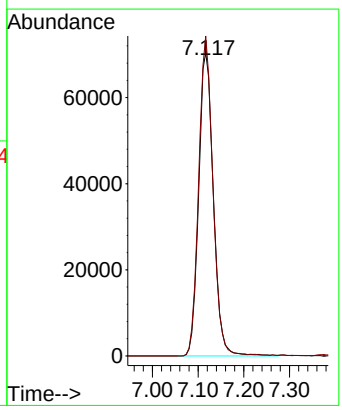
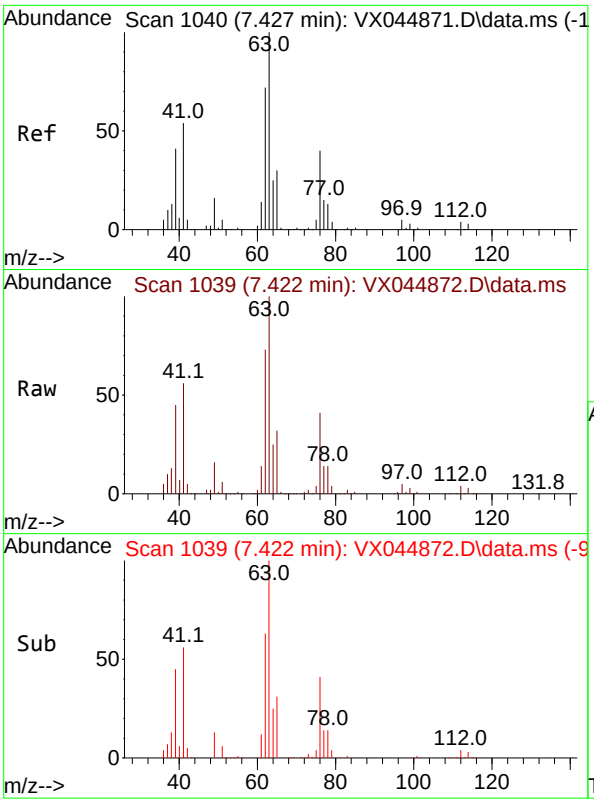


#44
Trichloroethene
Concen: 99.103 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:130 Resp: 156832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	202.4

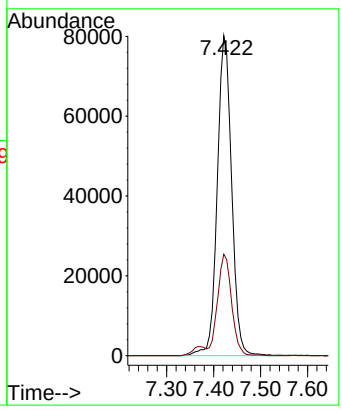




#45
1,2-Dichloropropane
Concen: 98.893 ug/l
RT: 7.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 17033

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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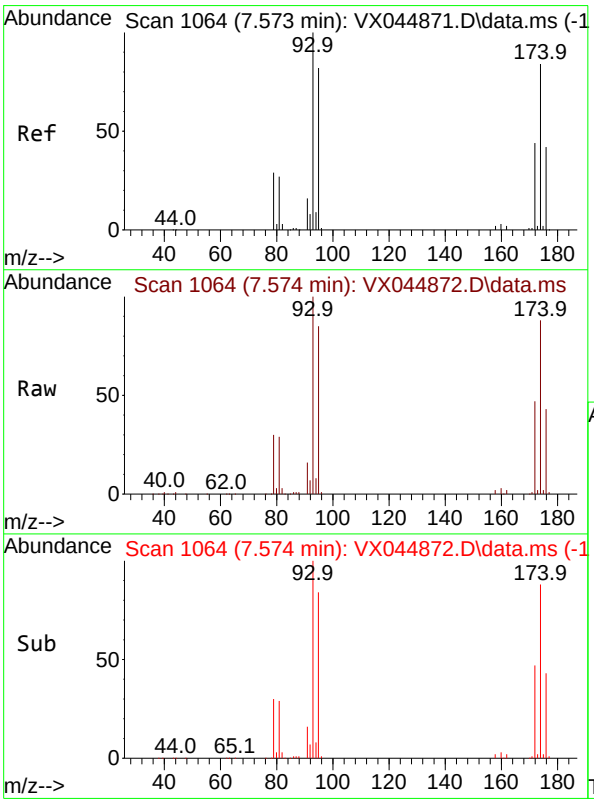
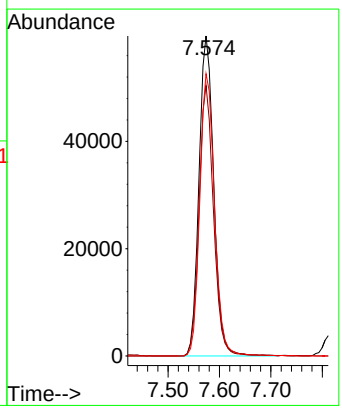
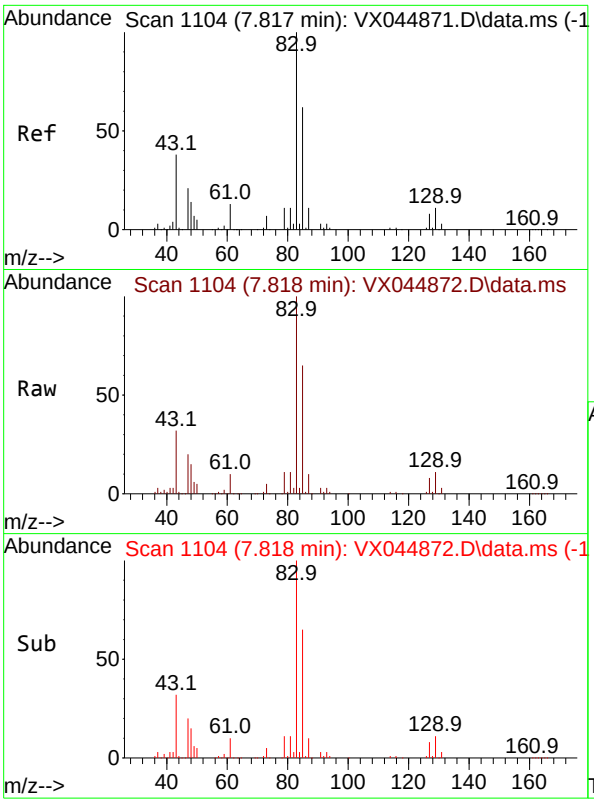


#46
Dibromomethane
Concen: 99.747 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 93 Resp: 119149

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.4
174	88.1	69.9	104.9

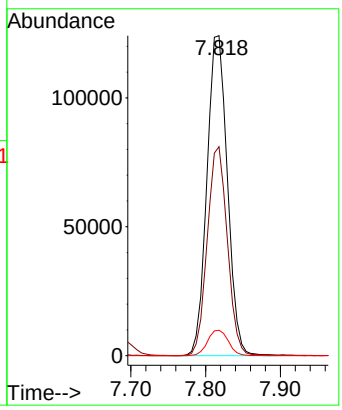




#47
Bromodichloromethane
Concen: 102.254 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 23650

Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.0	75.0
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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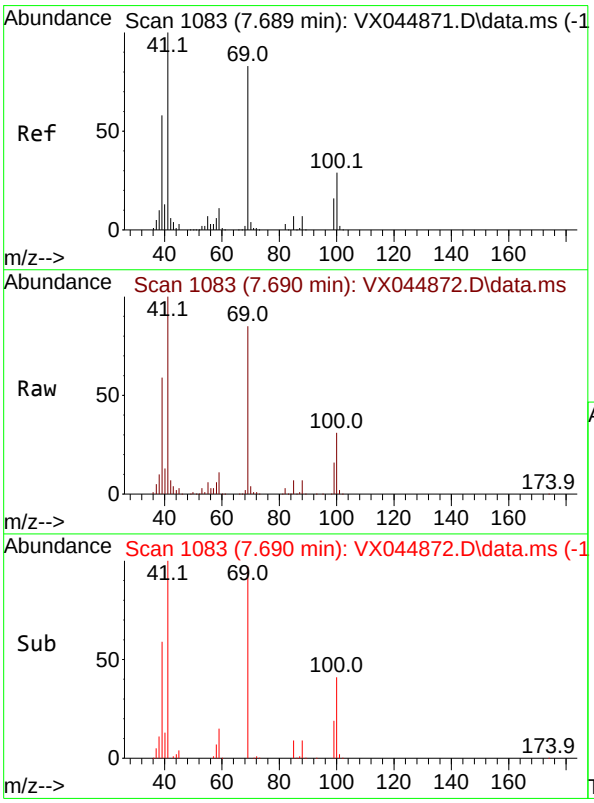
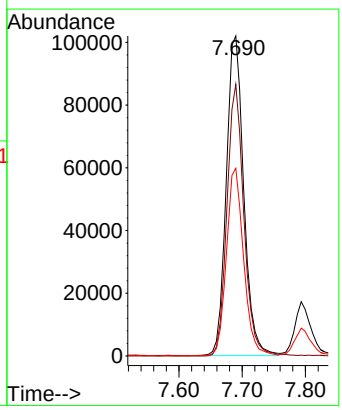
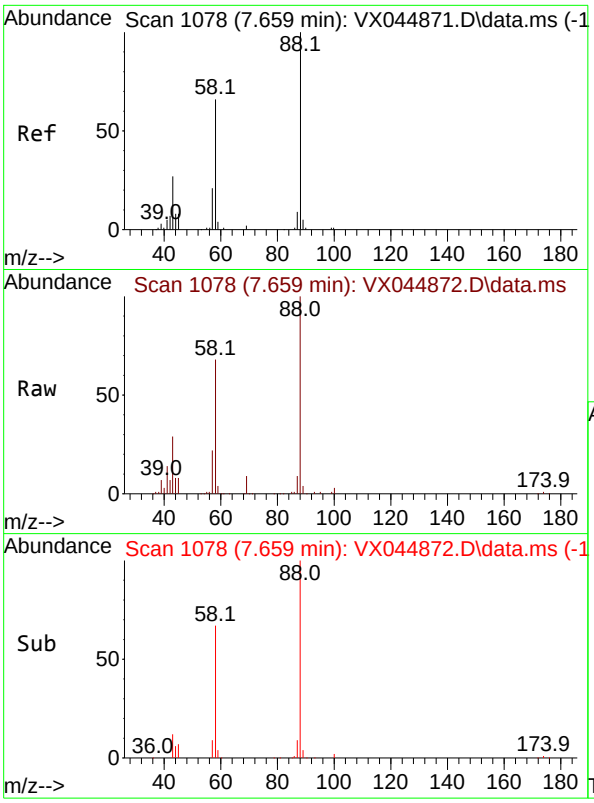


#48
Methyl methacrylate
Concen: 104.321 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 195892

Ion	Ratio	Lower	Upper
41	100		
69	82.1	65.8	98.8
39	57.3	46.4	69.6

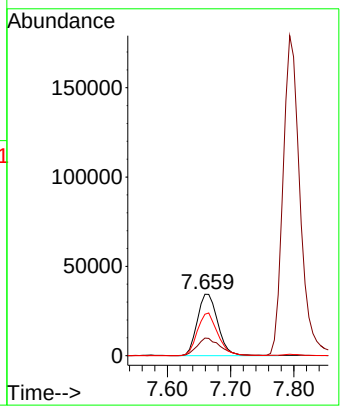




#49
1,4-Dioxane
Concen: 1931.508 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 88 Resp: 7781

Ion	Ratio	Lower	Upper
88	100		
43	31.8	26.6	39.8
58	68.9	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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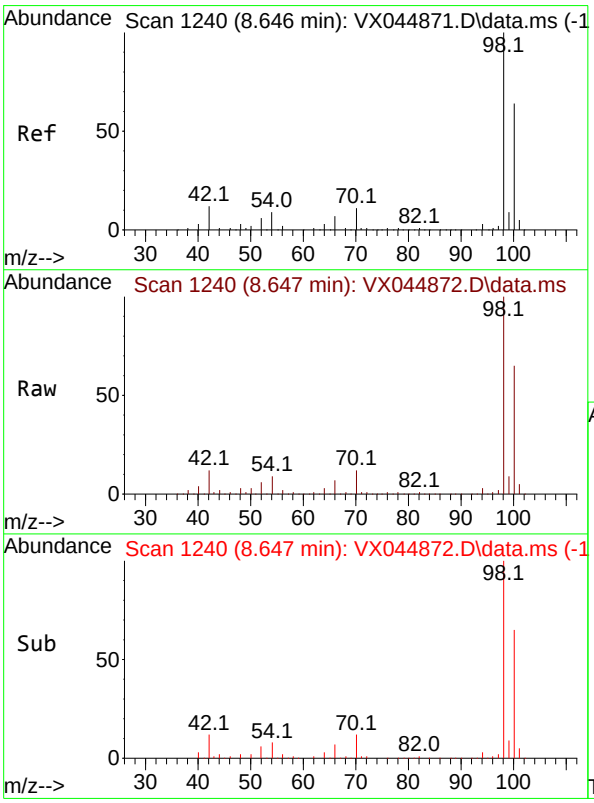
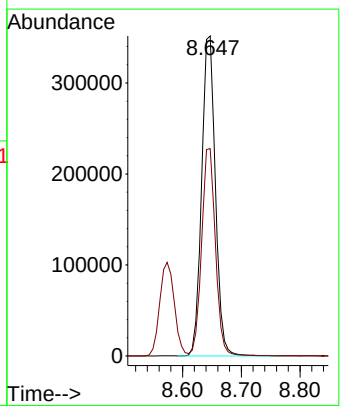
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

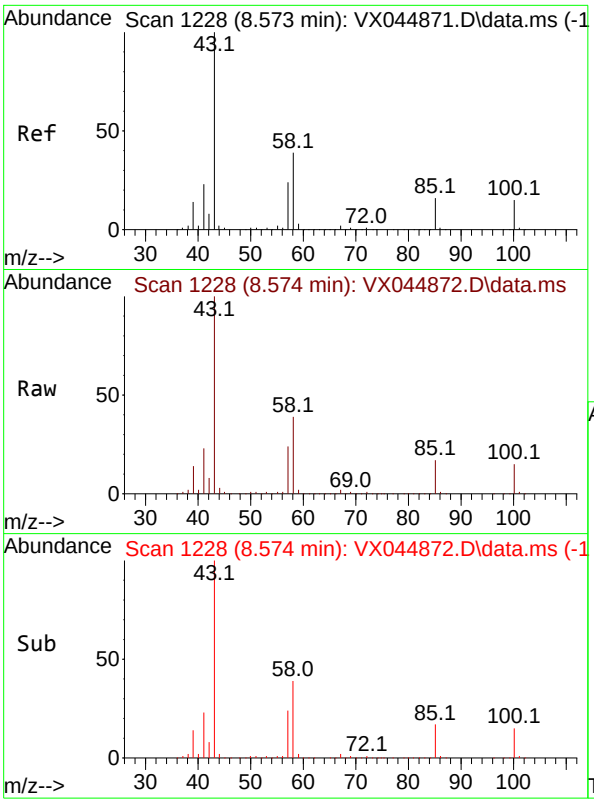


#50
Toluene-d8
Concen: 98.253 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 98 Resp: 570976

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.7	79.1





#51
4-Methyl-2-Pentanone
Concen: 494.353 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 119688

Ion	Ratio	Lower	Upper
43	100		
58	38.4	30.8	46.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :John Carlone 02/11/2025
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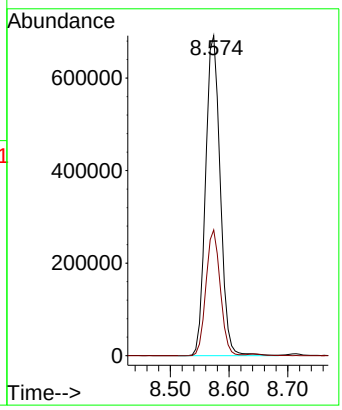
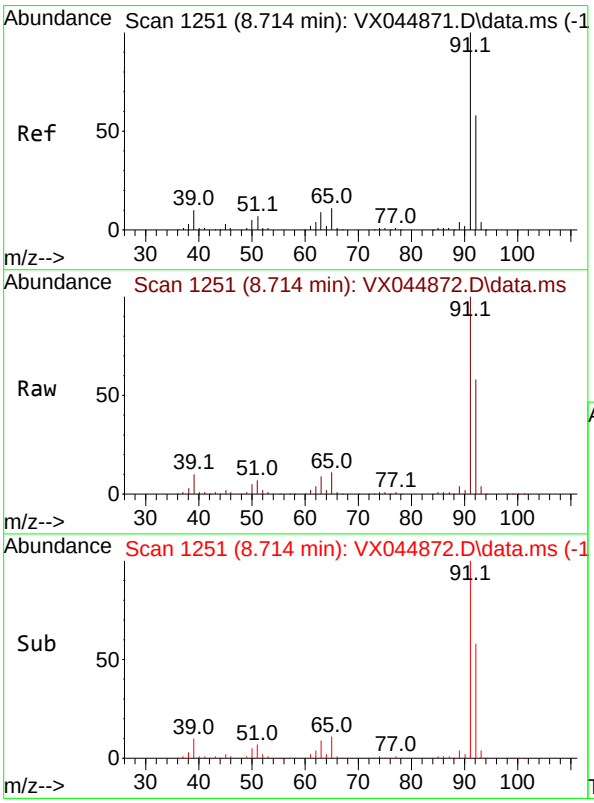
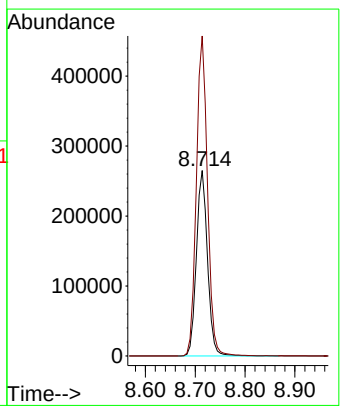


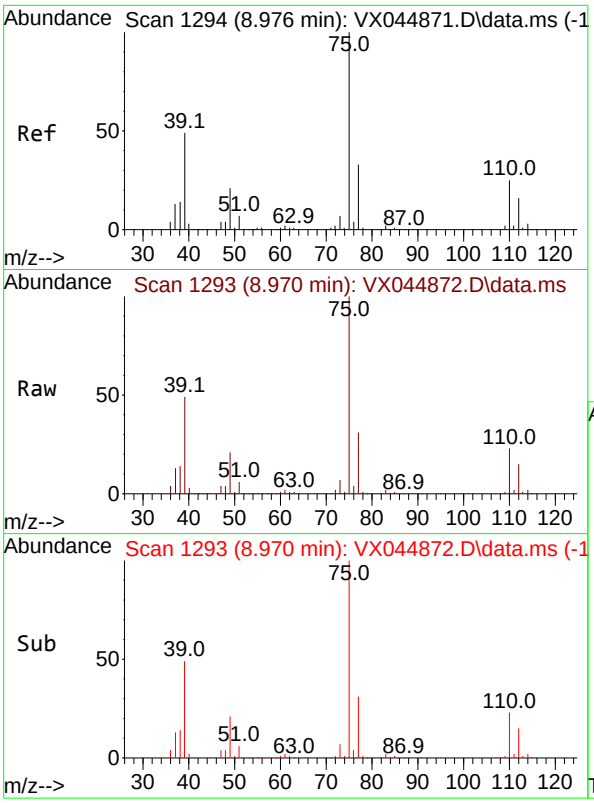


#52
Toluene
Concen: 99.270 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 92 Resp: 409318

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.4	206.2

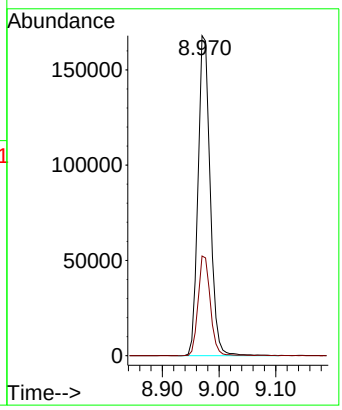




#53
t-1,3-Dichloropropene
Concen: 106.694 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 24972

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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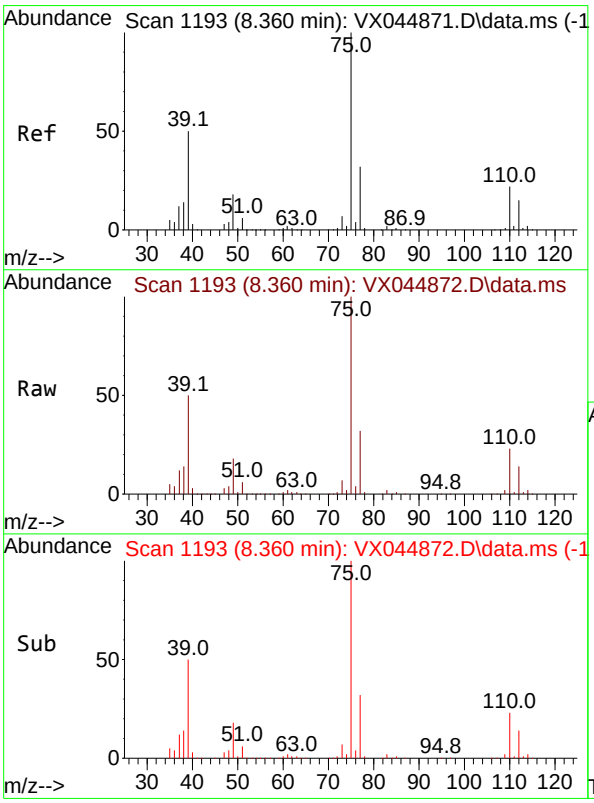
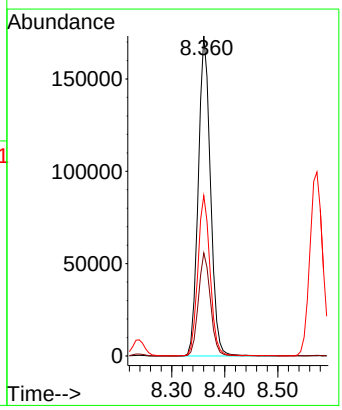
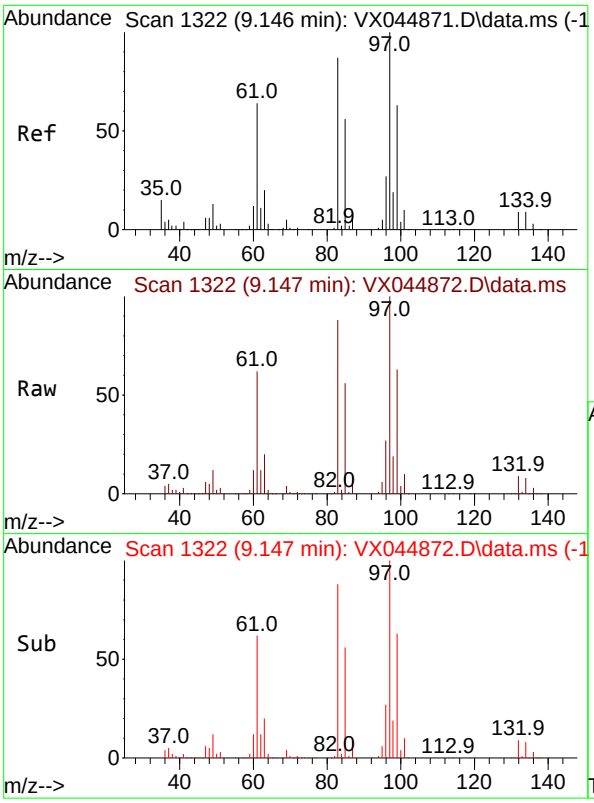


#54
cis-1,3-Dichloropropene
Concen: 106.287 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 277371

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.3	37.9
39	50.1	40.0	60.0

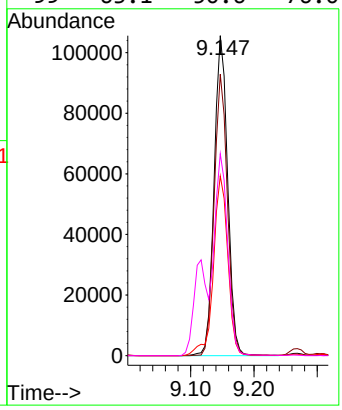




#55
1,1,2-Trichloroethane
Concen: 98.817 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 97 Resp: 15662

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.8	104.6
85	56.2	44.8	67.2
99	63.1	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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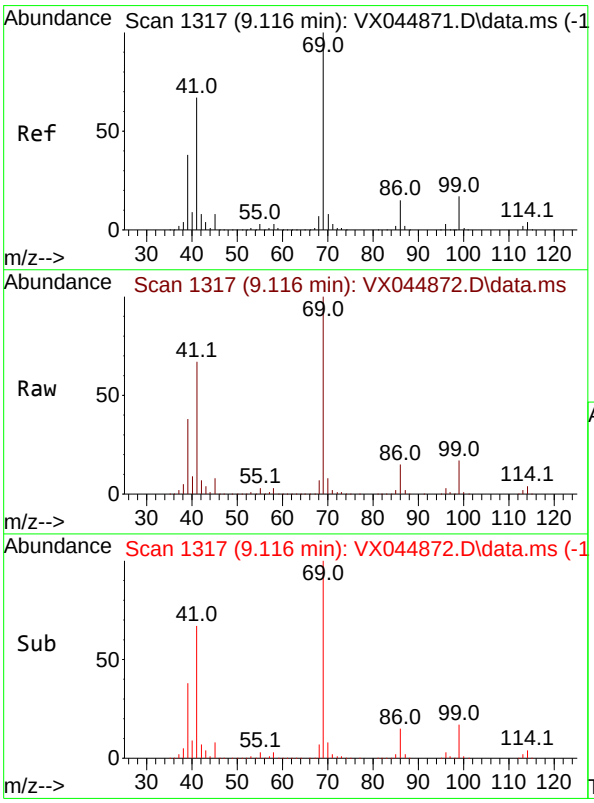
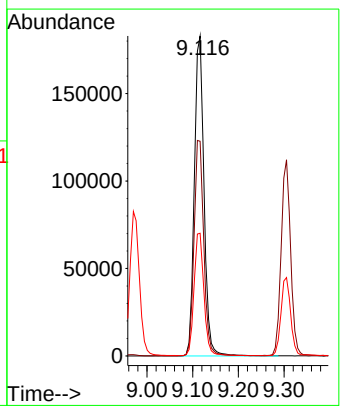
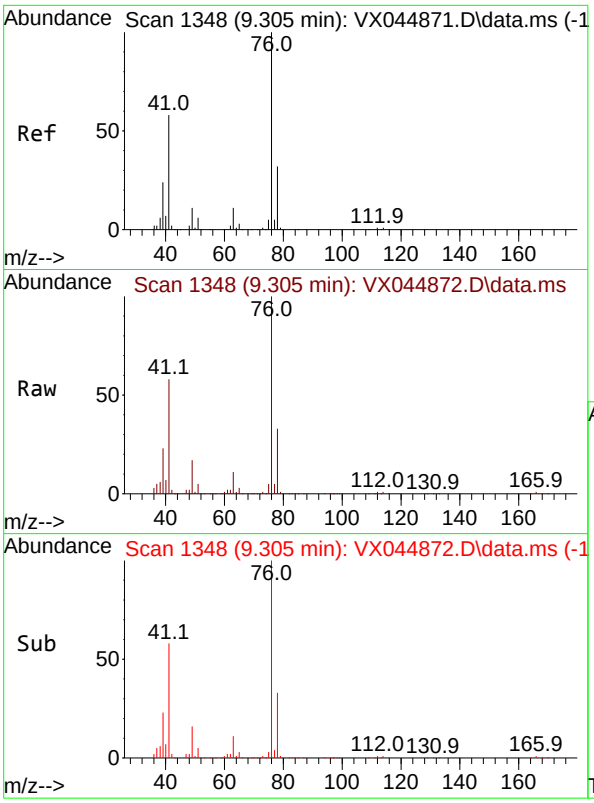


#56
Ethyl methacrylate
Concen: 104.958 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 69 Resp: 268693

Ion	Ratio	Lower	Upper
69	100		
41	68.0	55.2	82.8
39	39.2	30.8	46.2

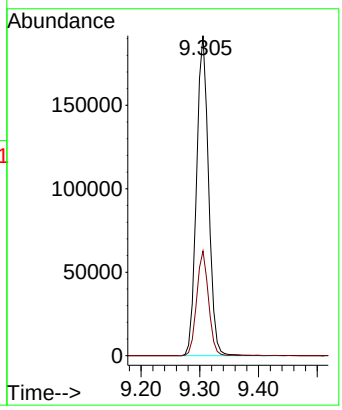




#57
1,3-Dichloropropane
Concen: 98.742 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 76 Resp: 27384

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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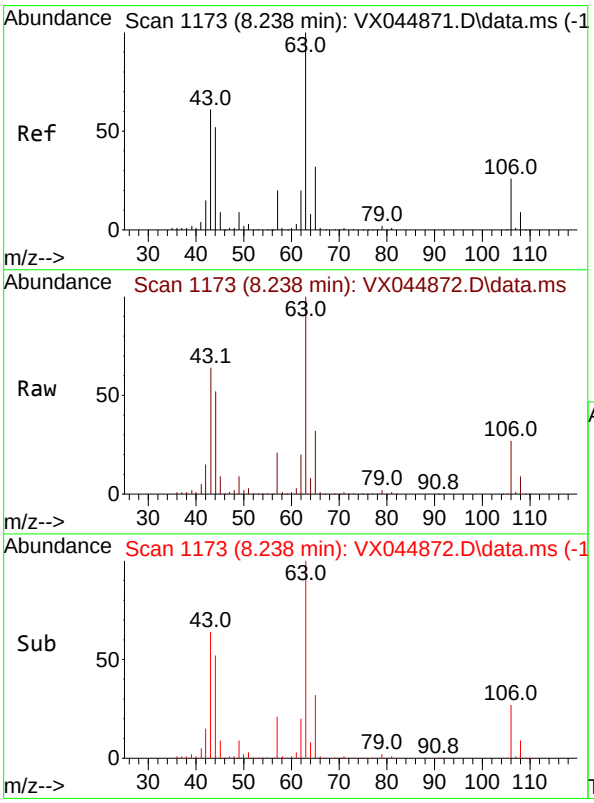
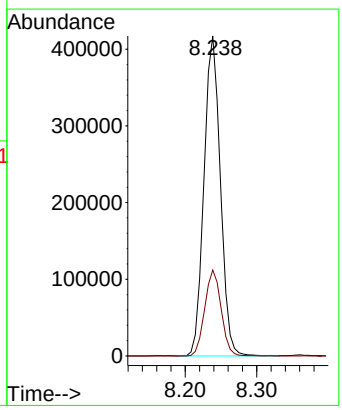
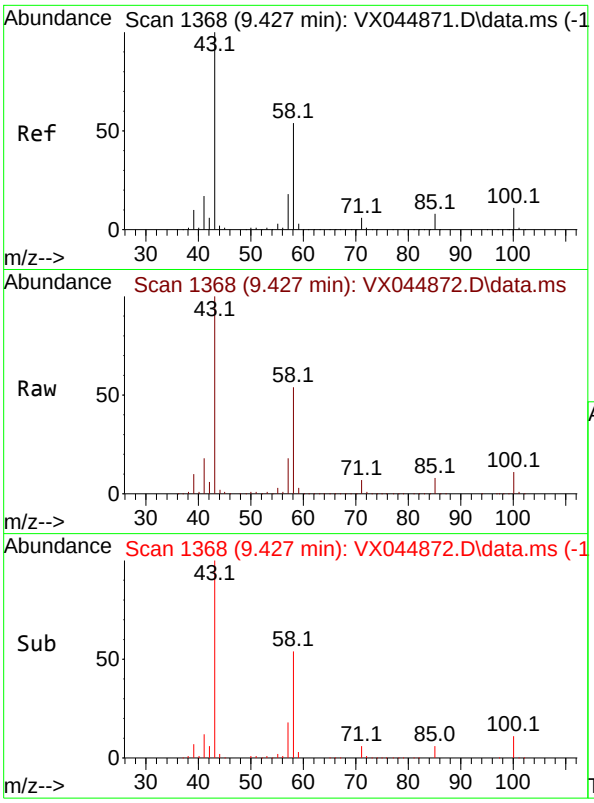


#58
2-Chloroethyl Vinyl ether
Concen: 528.405 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 664198

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.3	31.9

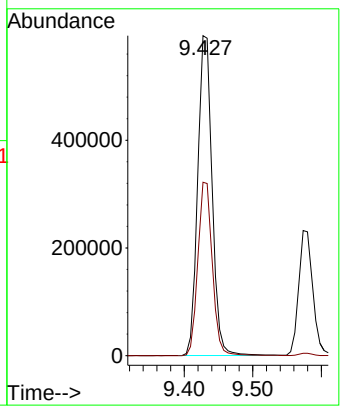




#59
2-Hexanone
Concen: 499.819 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 87190

Ion	Ratio	Lower	Upper
43	100		
58	54.4	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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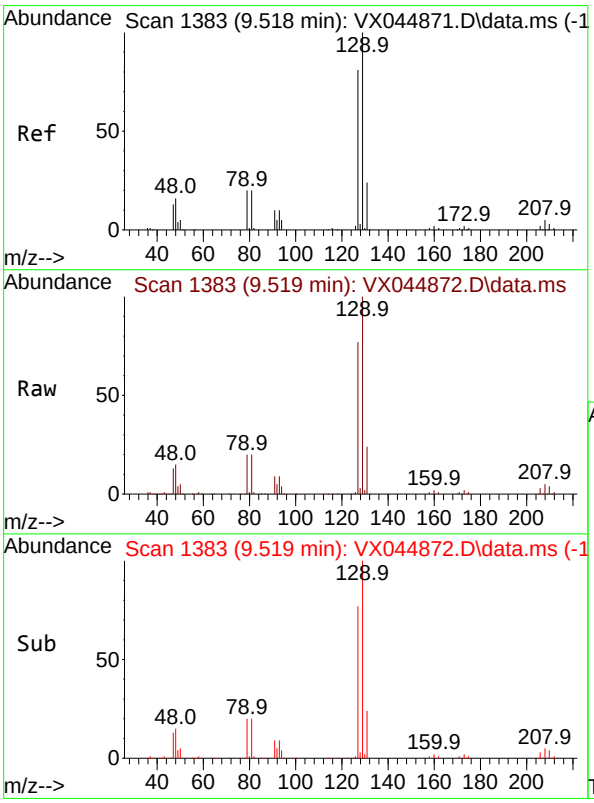
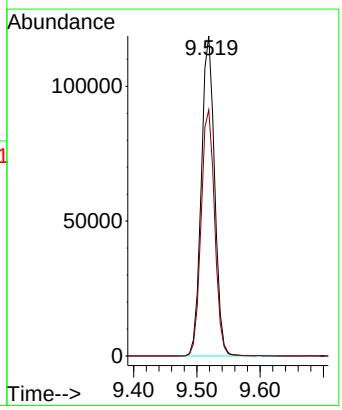
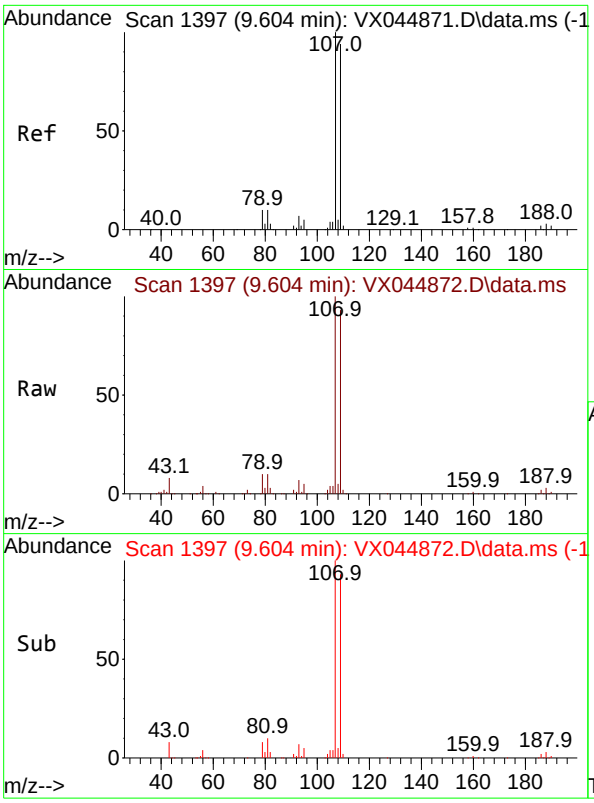


#60
Dibromochloromethane
Concen: 102.557 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:129 Resp: 173848

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.3

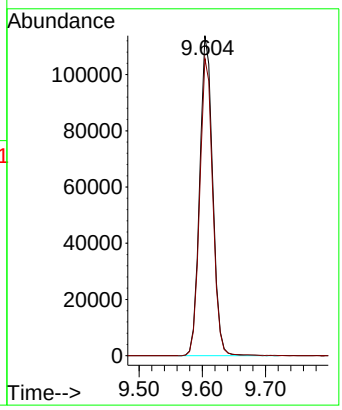




#61
1,2-Dibromoethane
Concen: 101.451 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:107 Resp: 16298

Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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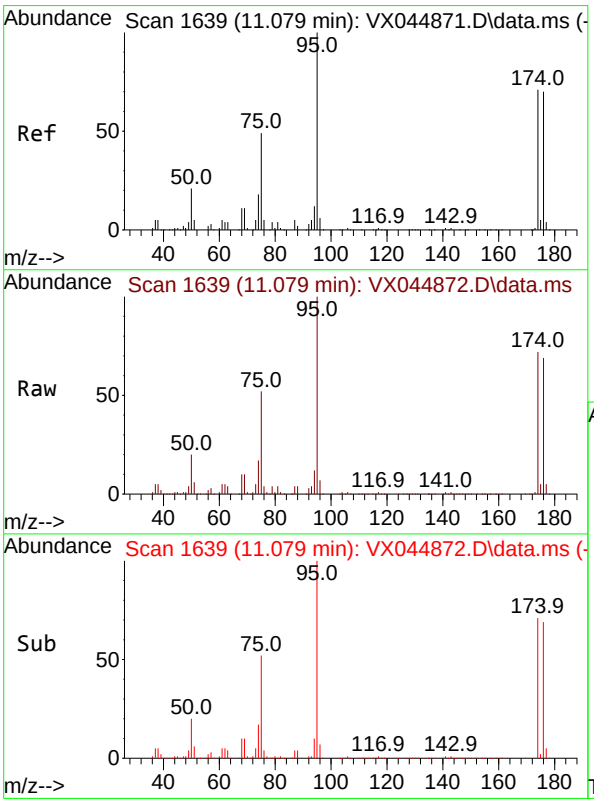
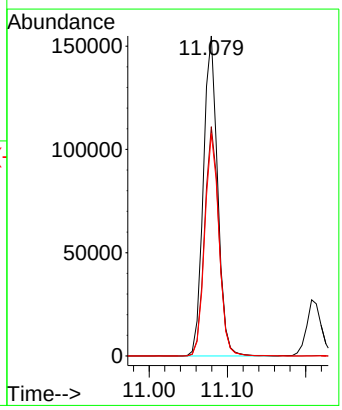
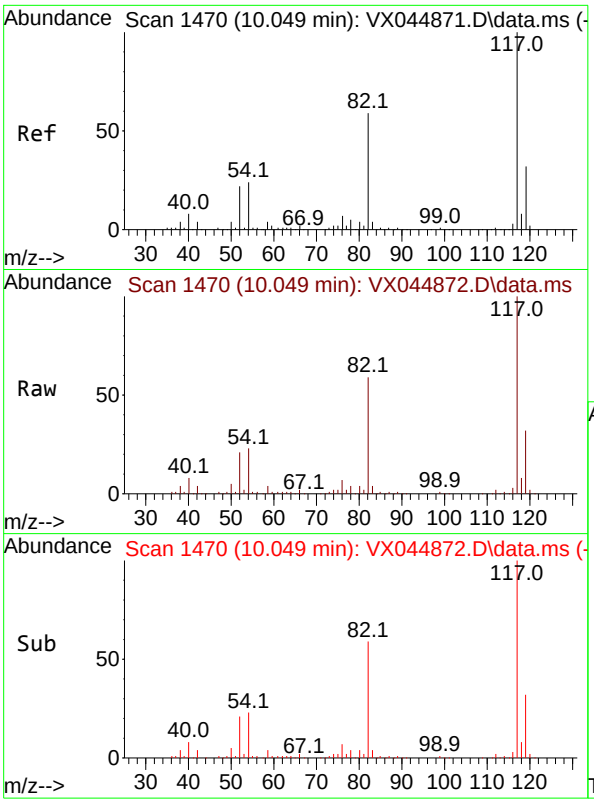


#62
4-Bromofluorobenzene
Concen: 100.079 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 95 Resp: 196066

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	142.6
176	68.8	0.0	141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 20388

Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.5	71.3
119	32.2	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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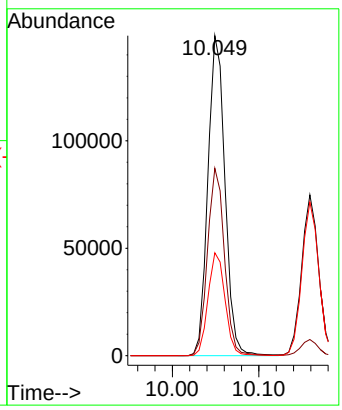
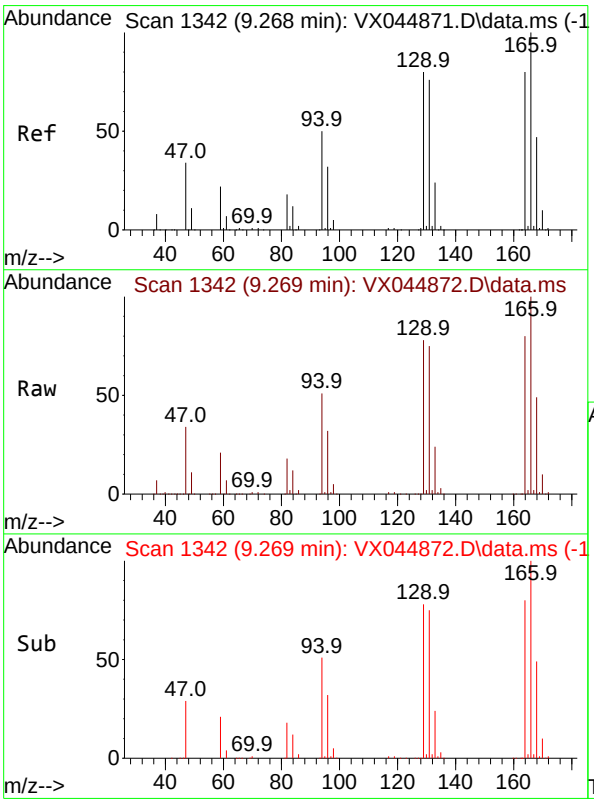
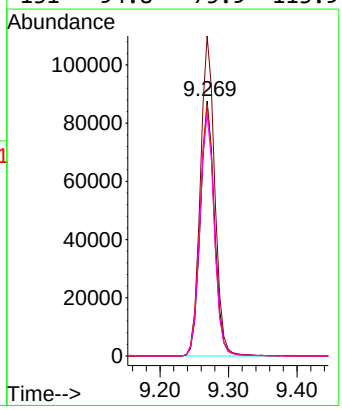


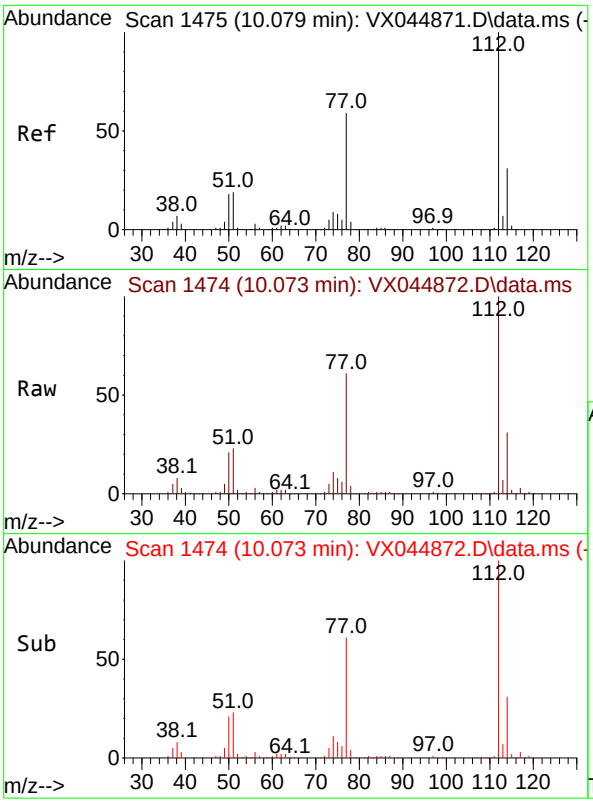


#64
Tetrachloroethene
Concen: 97.447 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:164 Resp: 125294

Ion	Ratio	Lower	Upper
164	100		
166	125.6	100.4	150.6
129	98.6	79.9	119.9
131	94.8	75.9	113.9

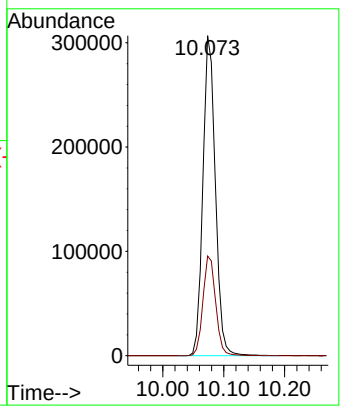




#65
Chlorobenzene
Concen: 99.694 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:112 Resp: 43656

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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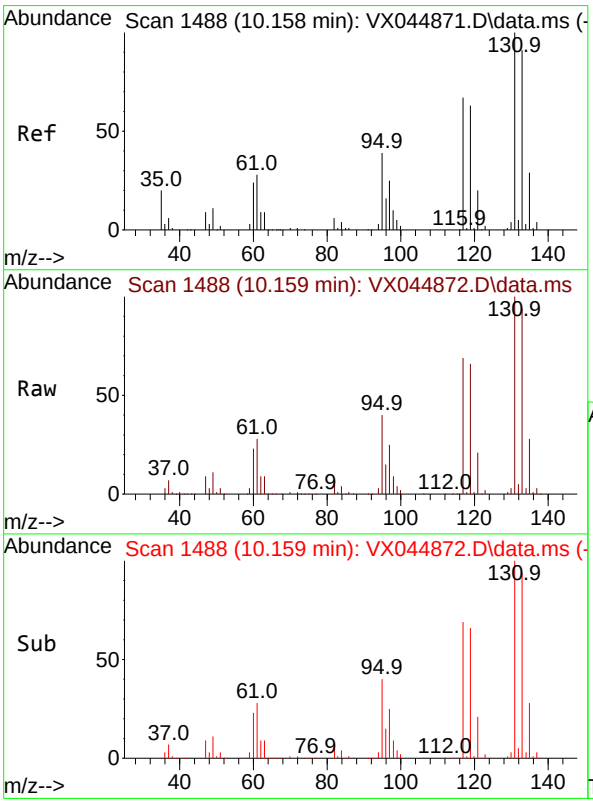
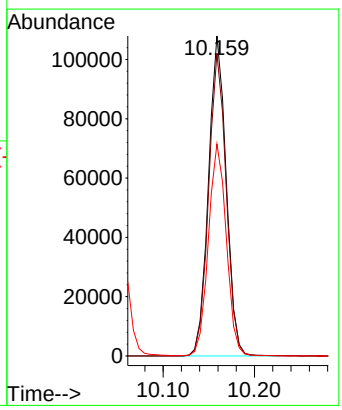
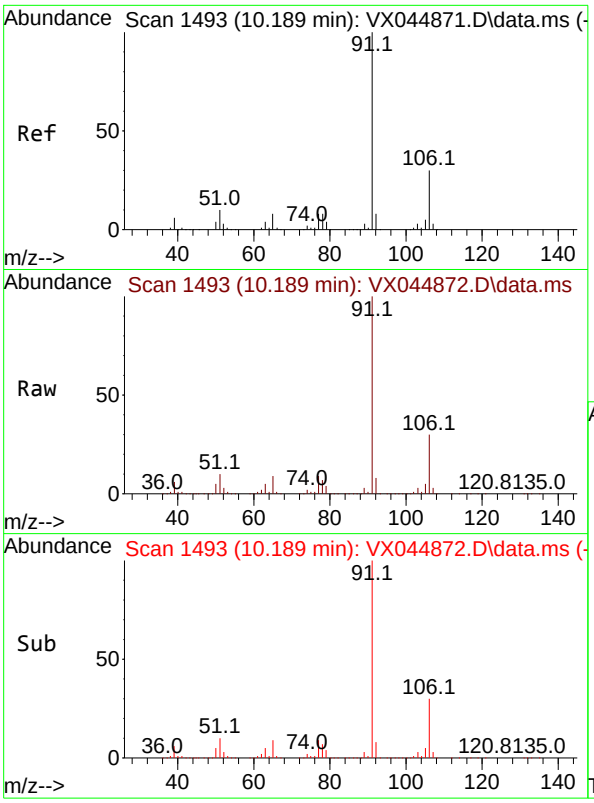


#66
1,1,1,2-Tetrachloroethane
Concen: 102.728 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:131 Resp: 144793

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.1	141.3
119	67.2	33.6	100.6





#67
Ethyl Benzene
Concen: 101.477 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

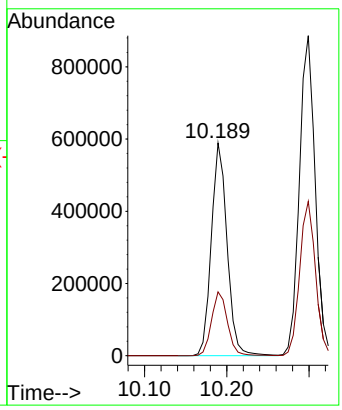
Tgt Ion: 91 Resp: 78418

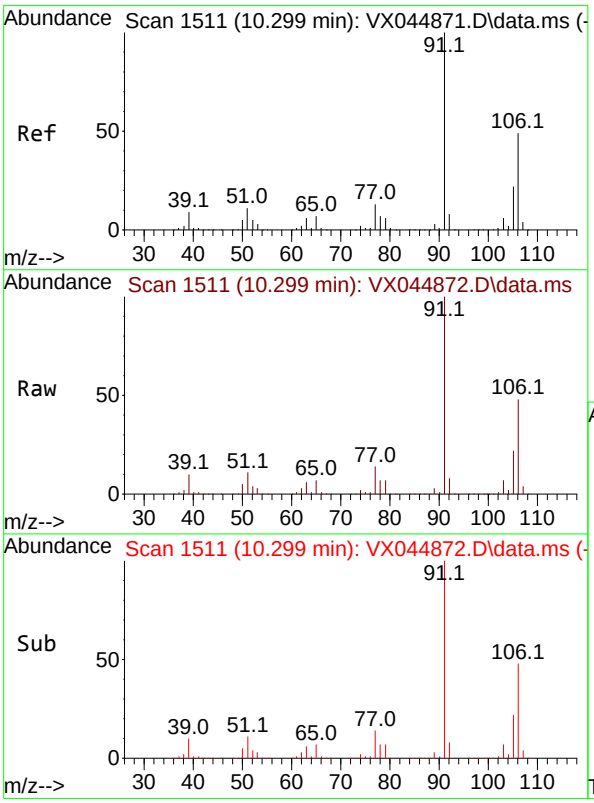
Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

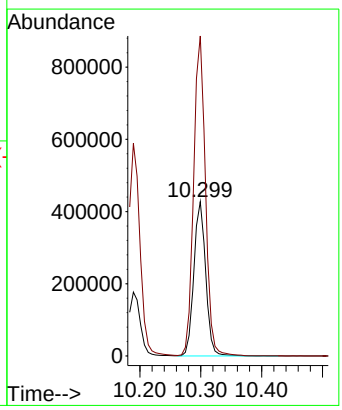


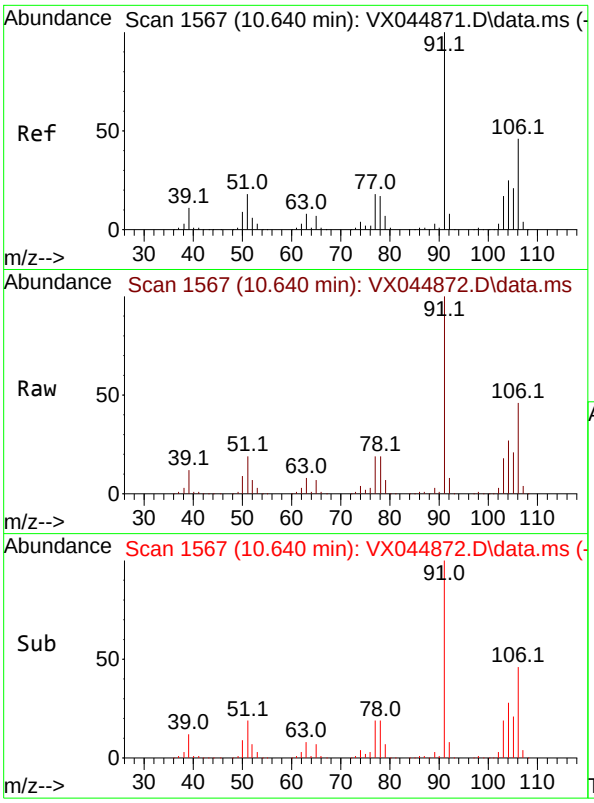


#68
m/p-Xylenes
Concen: 201.907 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:106 Resp: 575559

Ion	Ratio	Lower	Upper
106	100		
91	207.1	164.3	246.5

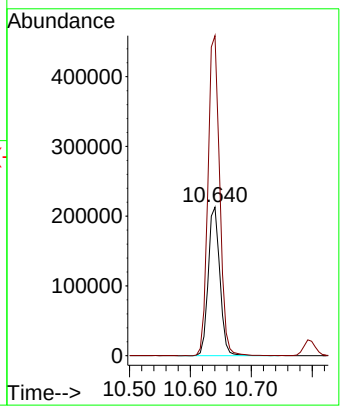




#69
o-Xylene
Concen: 98.530 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:106 Resp: 28183

Ion	Ratio	Lower	Upper
106	100		
91	217.3	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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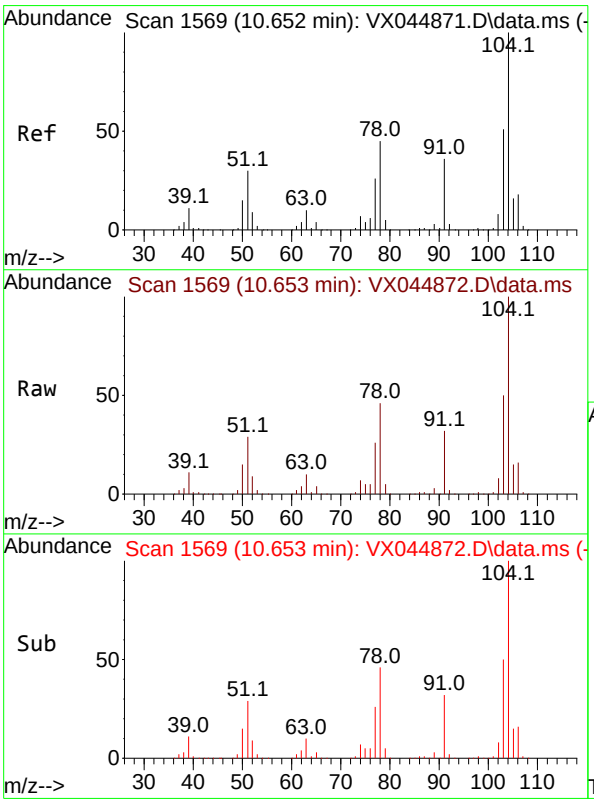
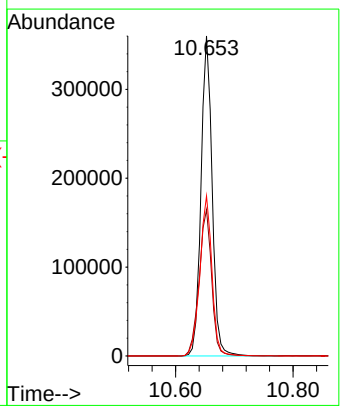
Supervised By :Mahesh Dadoda 02/11/2025

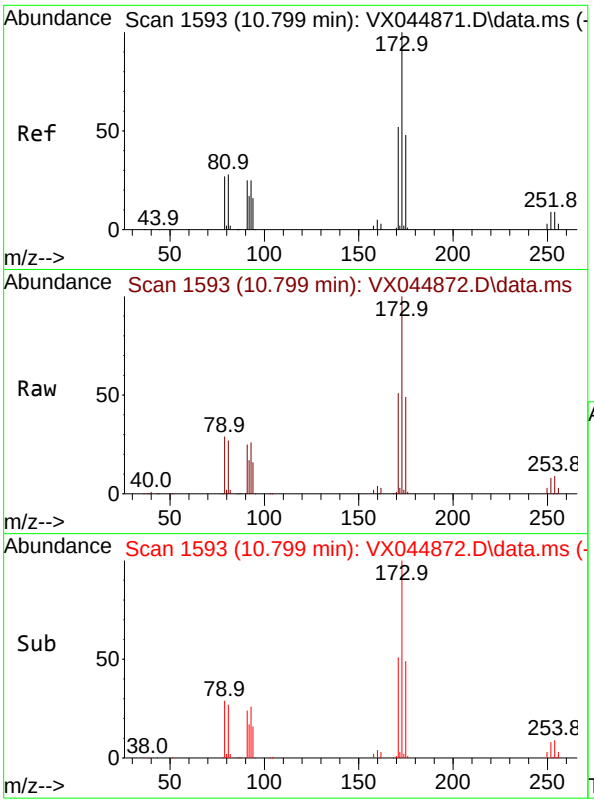


#70
Styrene
Concen: 102.728 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:104 Resp: 473403

Ion	Ratio	Lower	Upper
104	100		
78	51.5	40.5	60.7
103	54.5	43.6	65.4

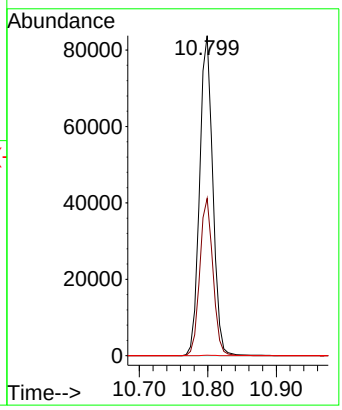




#71
Bromoform
Concen: 106.827 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:173 Resp: 11237

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	72.8
254	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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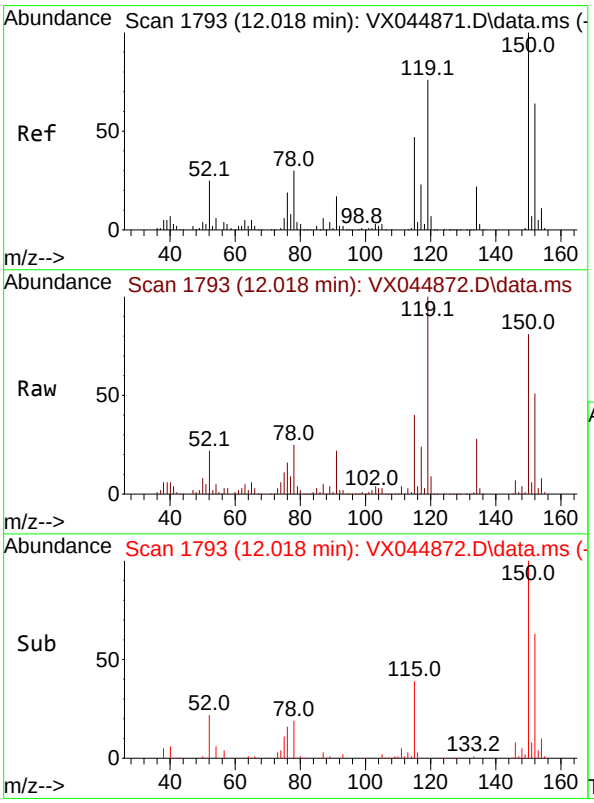
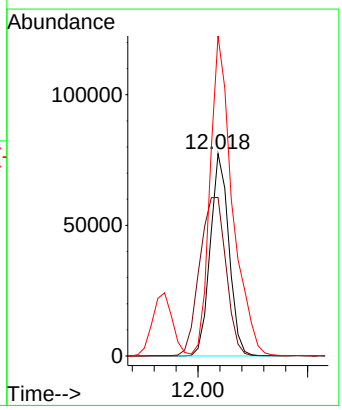
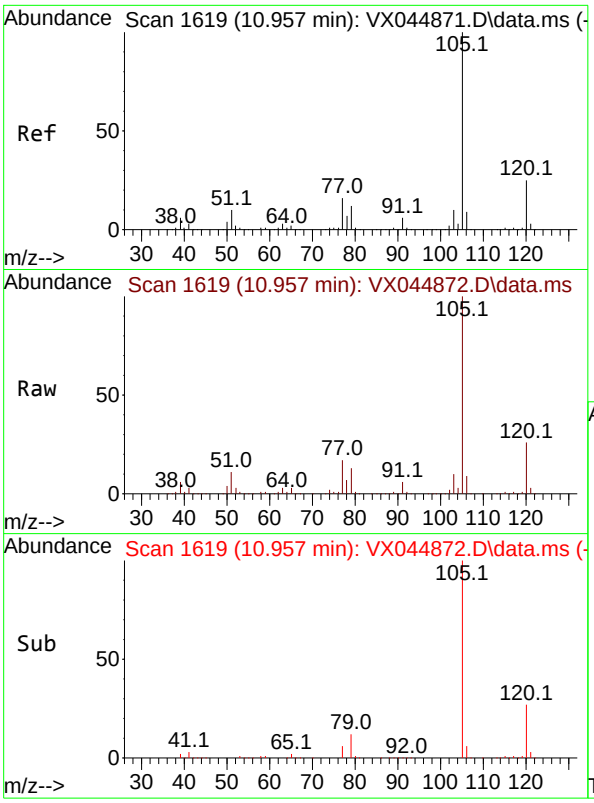


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:152 Resp: 91371

Ion	Ratio	Lower	Upper
152	100		
115	111.2	43.4	130.1
150	189.1	0.0	350.4

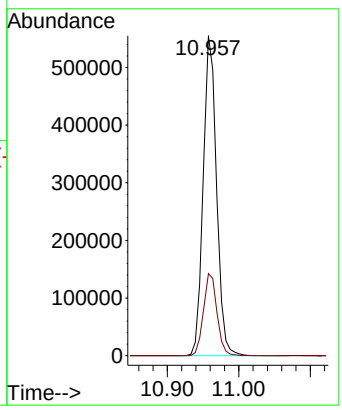




#73
Isopropylbenzene
Concen: 97.854 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 71992

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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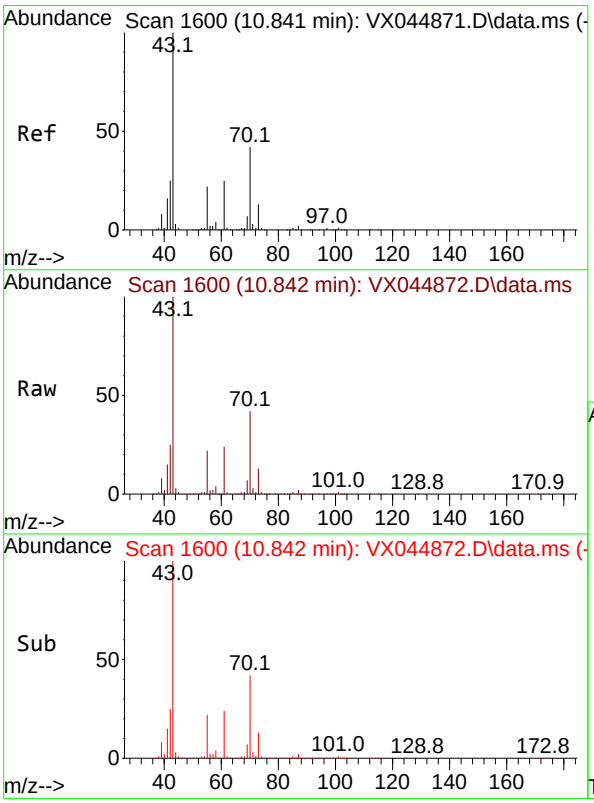
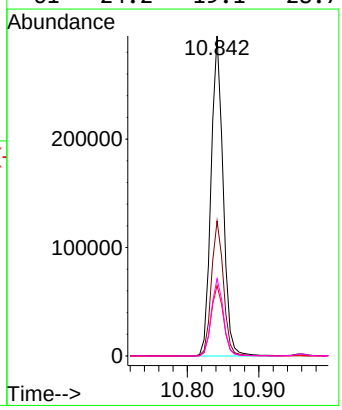
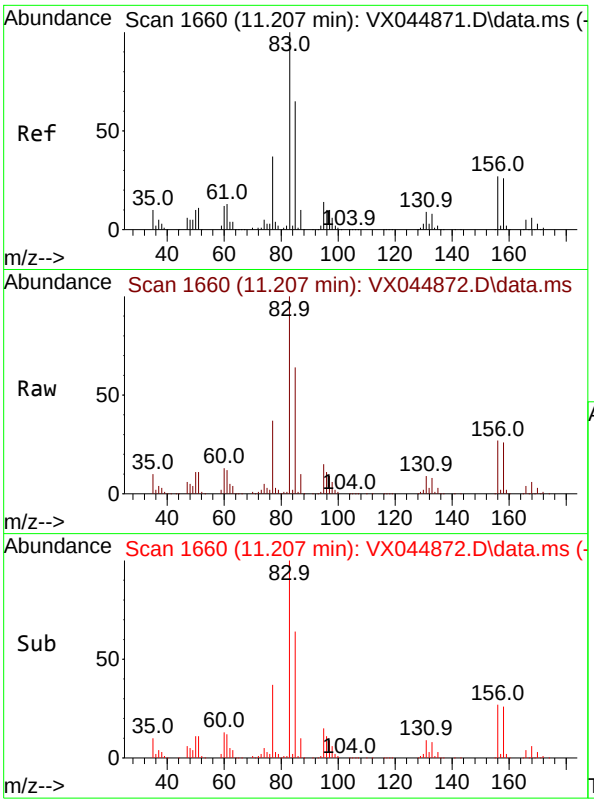


#74
N-amyl acetate
Concen: 103.687 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 345193

Ion	Ratio	Lower	Upper
43	100		
70	42.4	33.7	50.5
55	22.6	18.6	27.8
61	24.2	19.1	28.7

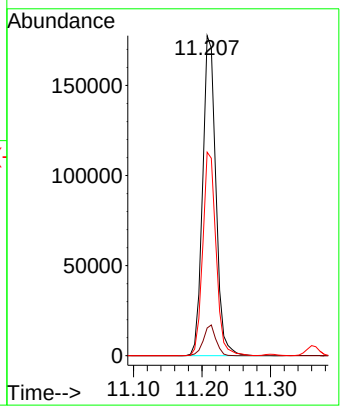




#75
1,1,2,2-Tetrachloroethane
Concen: 94.351 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 23852

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	63.9	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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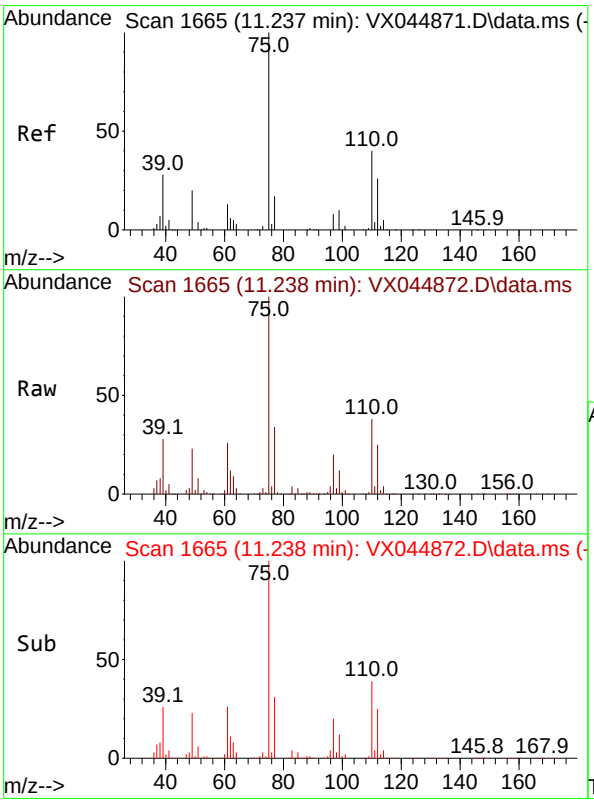
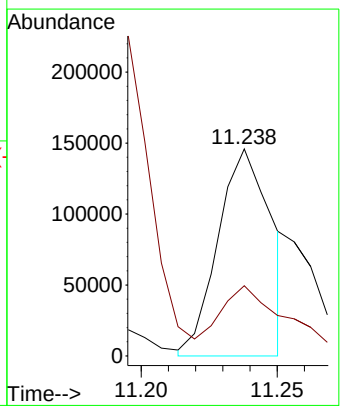
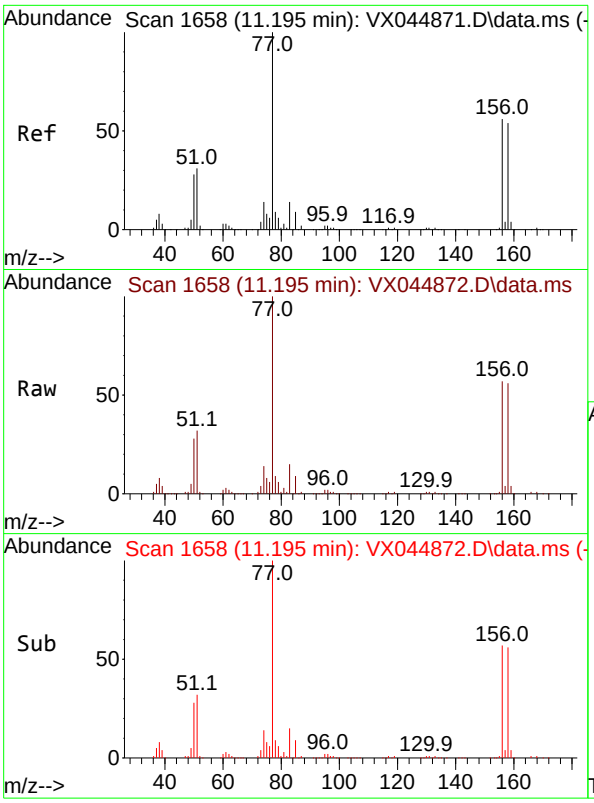


#76
1,2,3-Trichloropropane
Concen: 97.896 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 198320

Ion	Ratio	Lower	Upper
75	100		
77	43.4	21.9	65.7





#77
Bromobenzene
Concen: 98.230 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:156 Resp: 16384

Ion	Ratio	Lower	Upper
156	100		
77	176.7	88.4	265.3
158	95.7	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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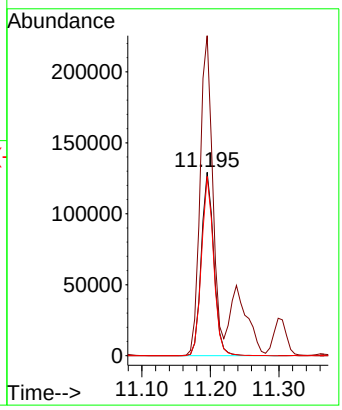
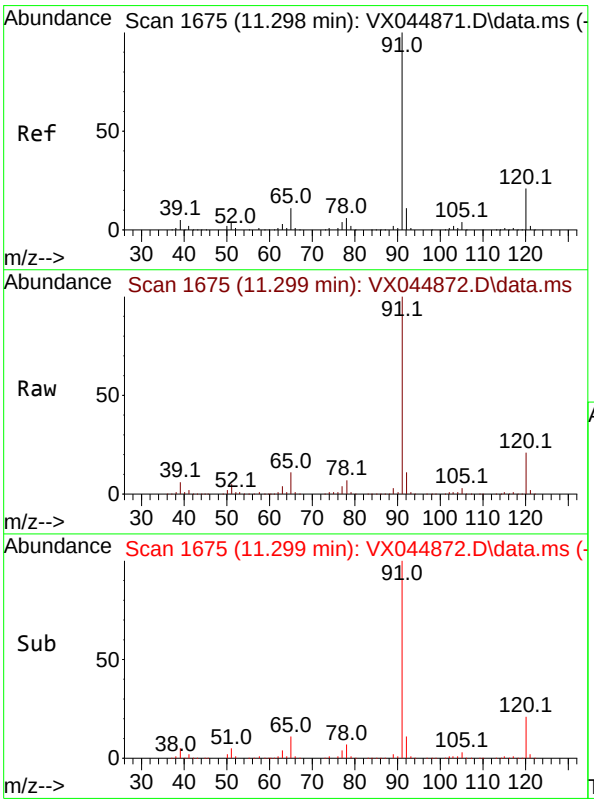
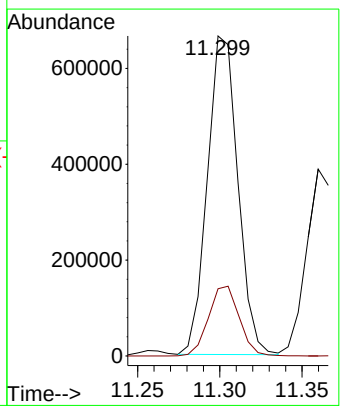


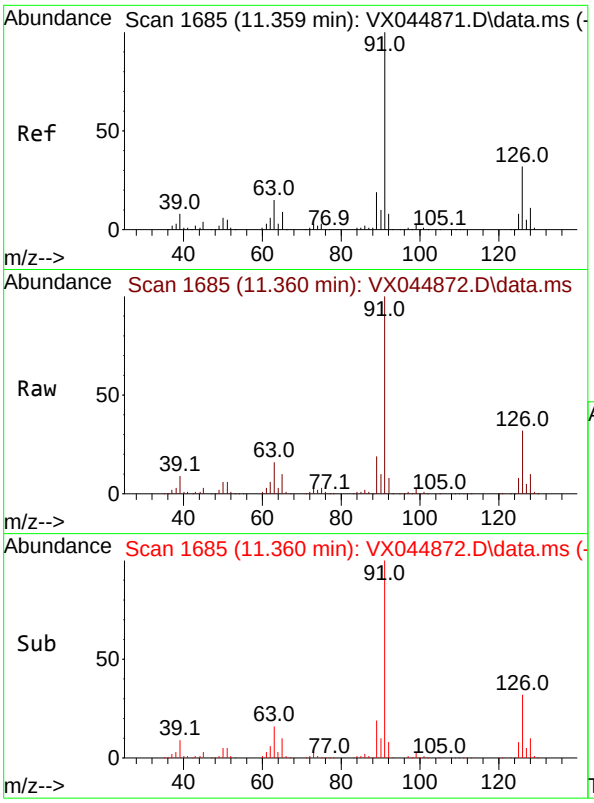


#78
n-propylbenzene
Concen: 101.132 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 858793

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3

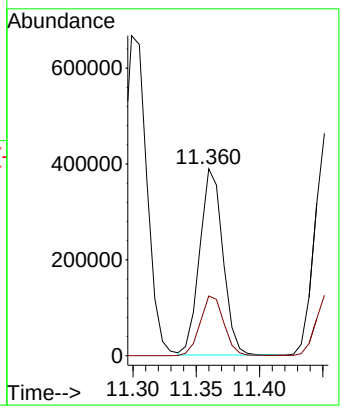




#79
2-Chlorotoluene
Concen: 95.257 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 49714

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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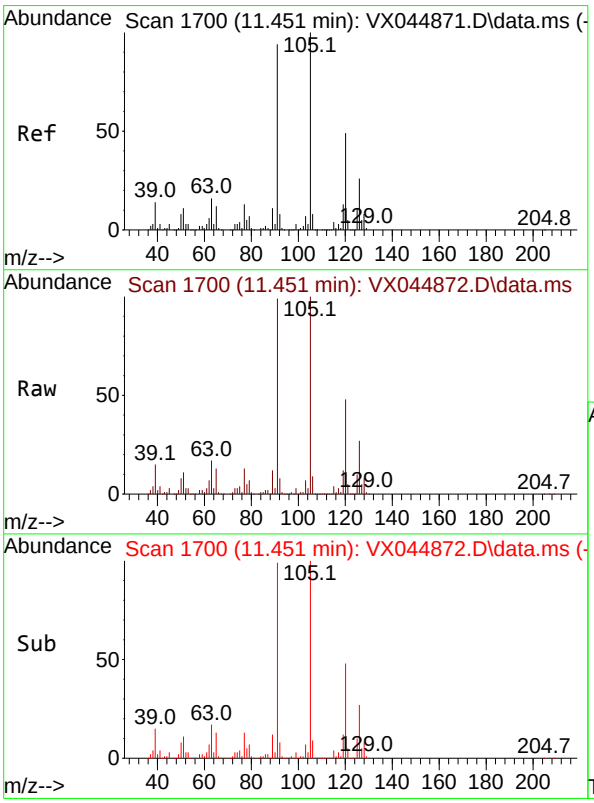
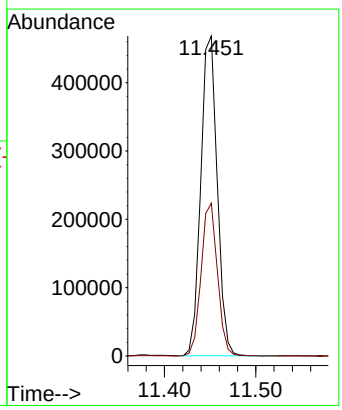
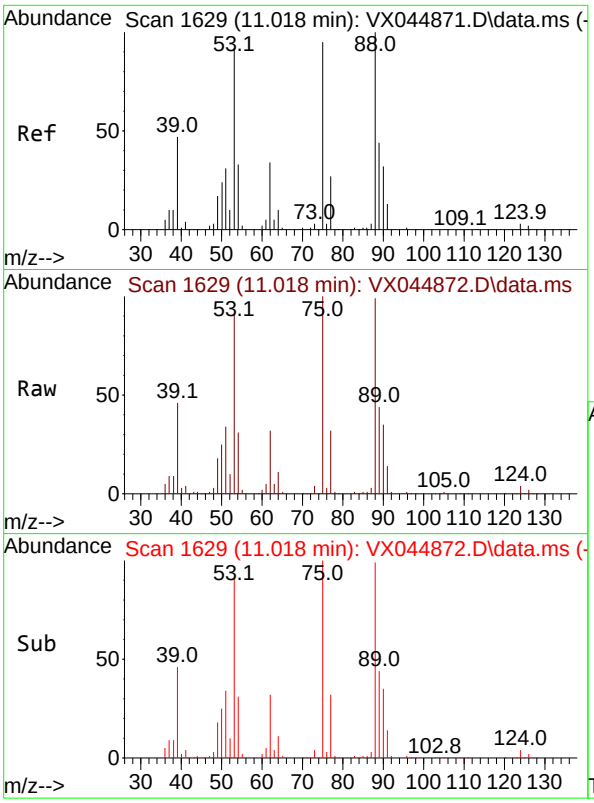


#80
1,3,5-Trimethylbenzene
Concen: 97.966 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 584885

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 106.006 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 8348

Ion	Ratio	Lower	Upper
75	100		
53	95.9	78.0	117.0
89	44.6	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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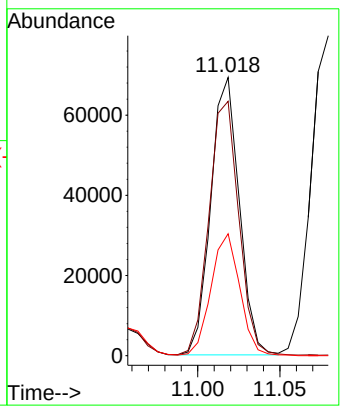
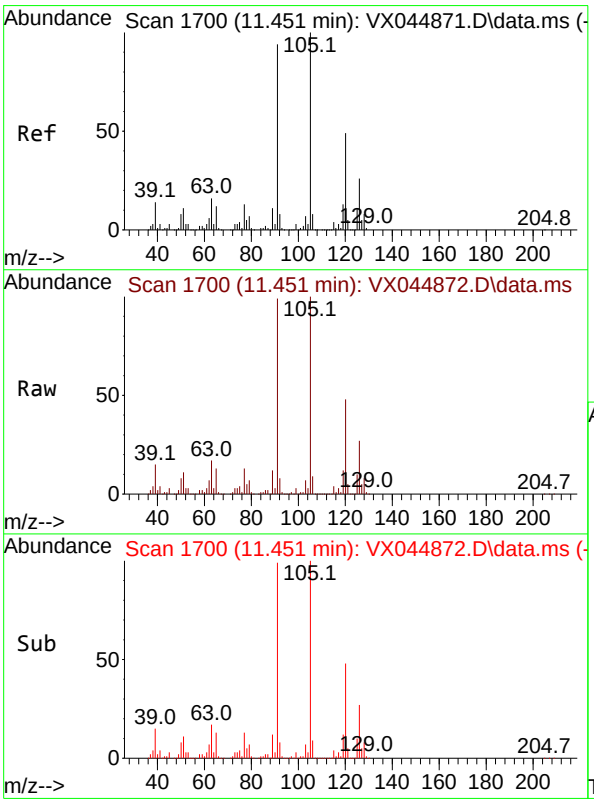
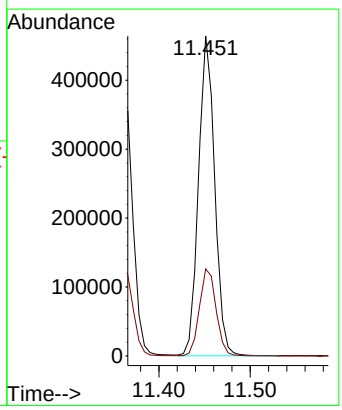


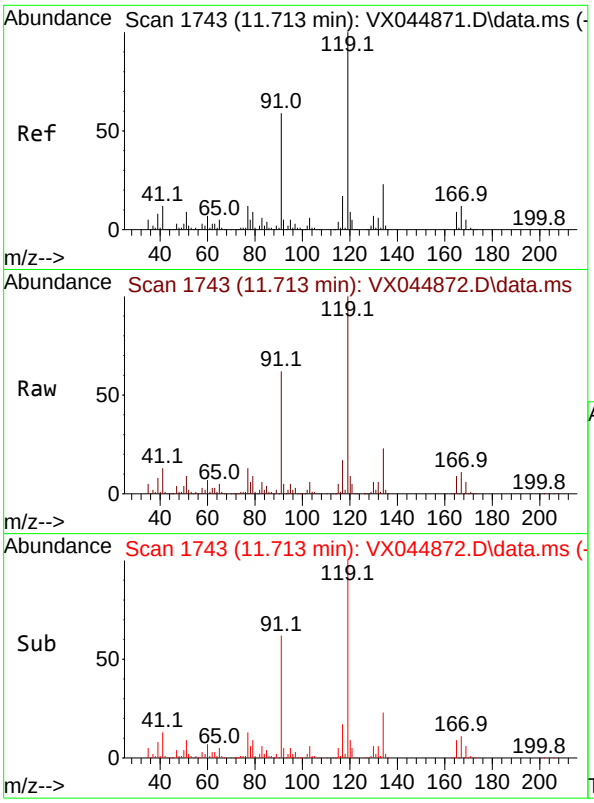


#82
4-Chlorotoluene
Concen: 98.634 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 569510

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.2	42.6

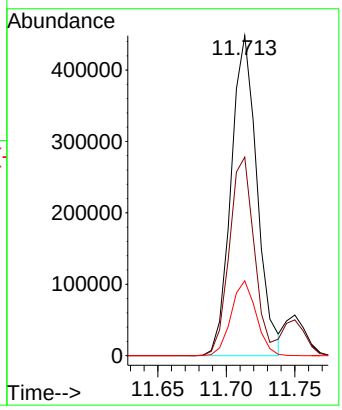




#83
tert-Butylbenzene
Concen: 97.917 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:119 Resp: 59139

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.1	87.4
134	22.6	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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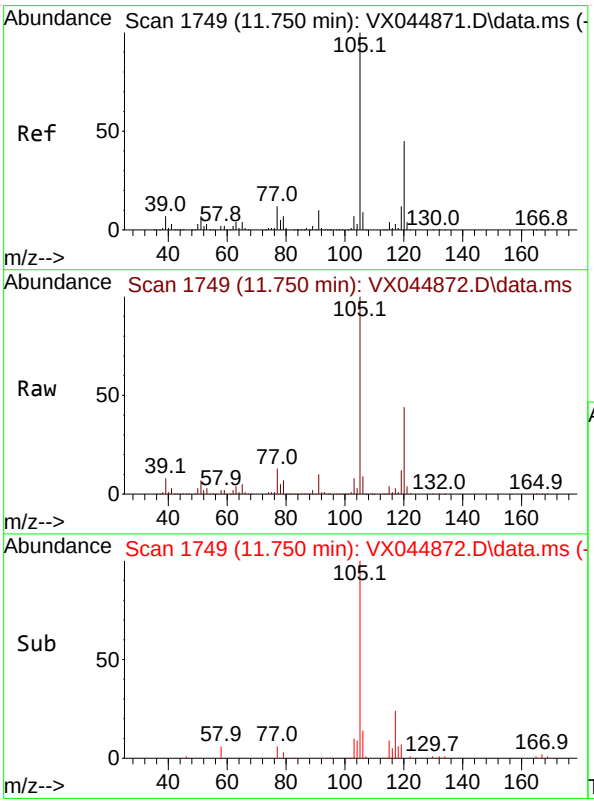
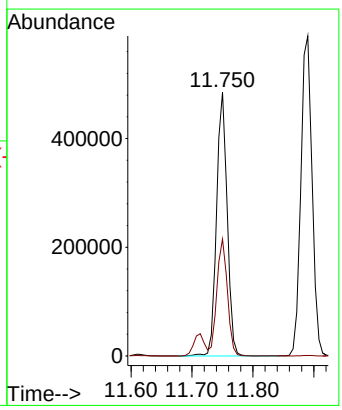
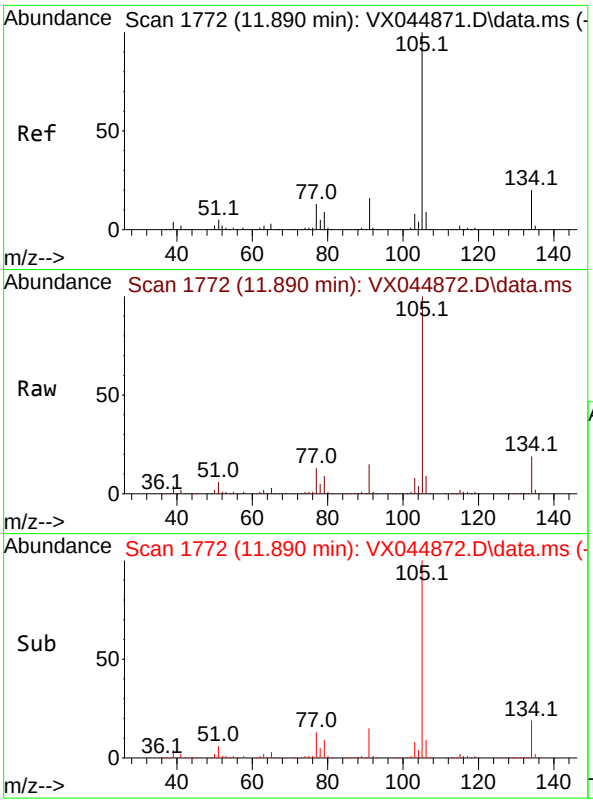


#84
1,2,4-Trimethylbenzene
Concen: 99.851 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 588385

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.0

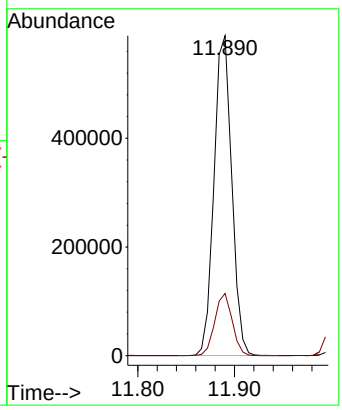




#85
sec-Butylbenzene
Concen: 100.219 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 74953

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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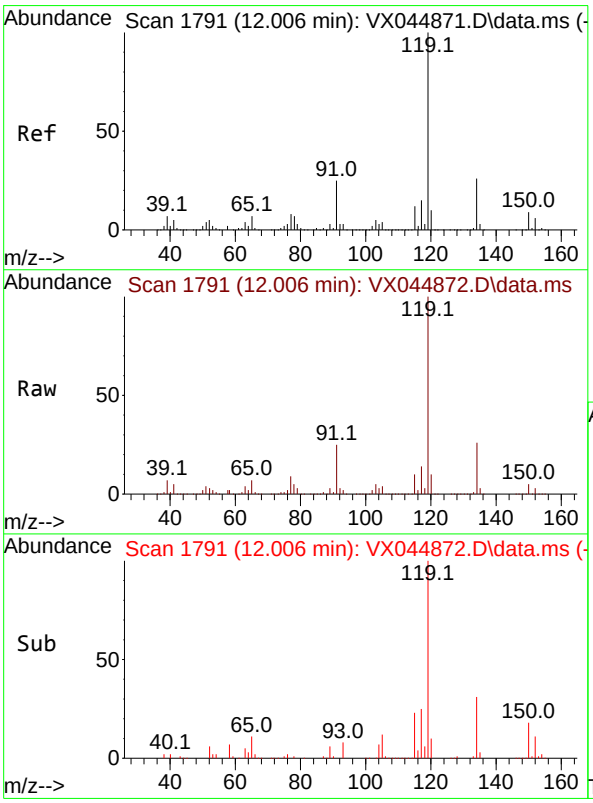
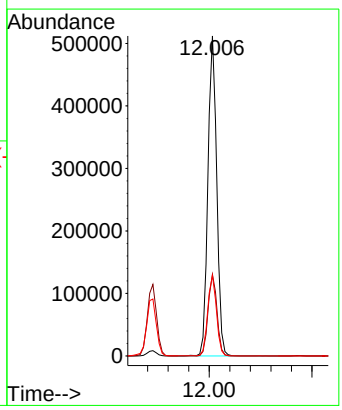
Supervised By :Mahesh Dadoda 02/11/2025

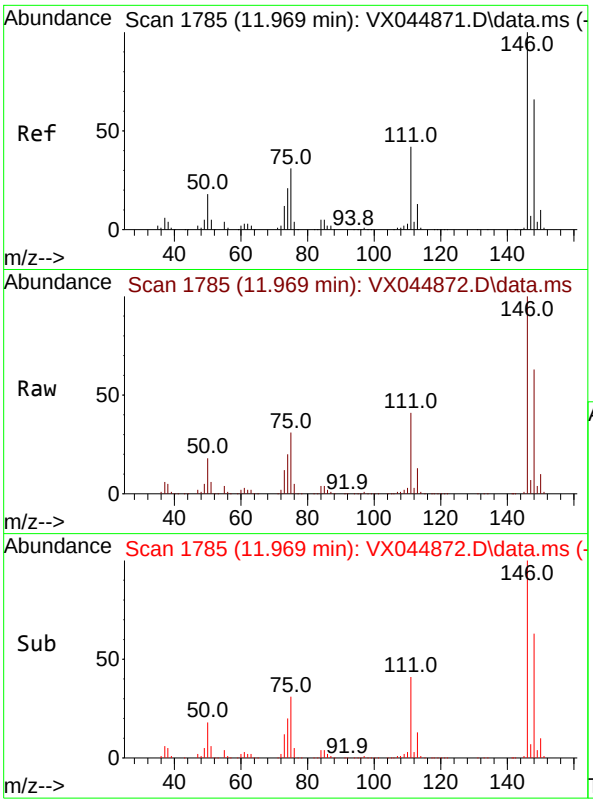


#86
p-Isopropyltoluene
Concen: 101.019 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:119 Resp: 607577

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	38.9
91	25.0	12.1	36.3

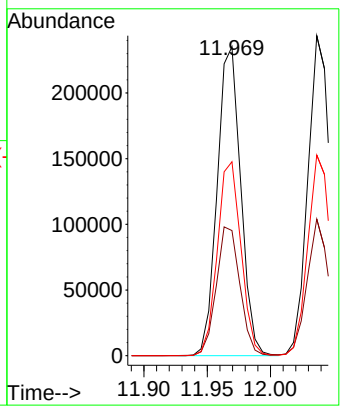




#87
1,3-Dichlorobenzene
Concen: 99.061 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:146 Resp: 30385

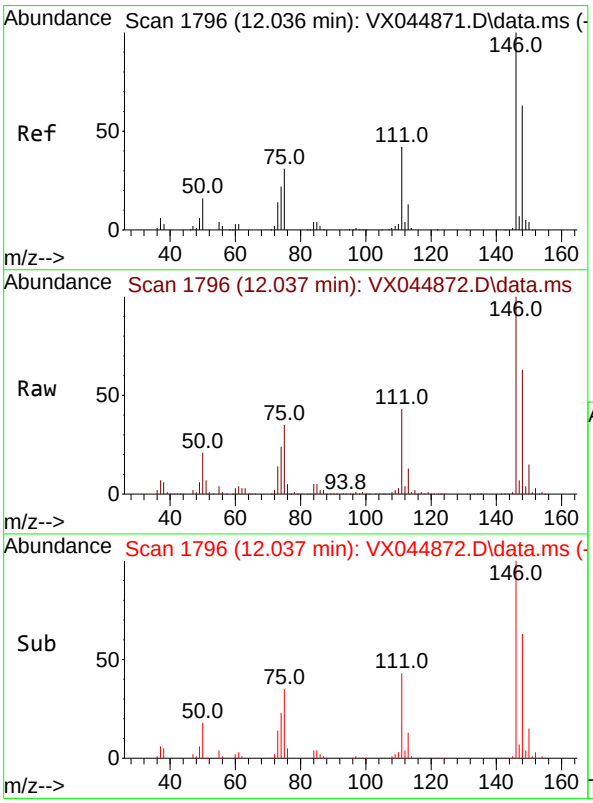
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	63.1	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

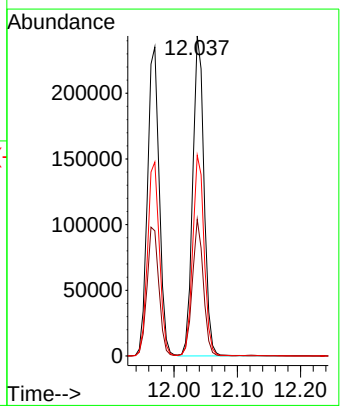
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

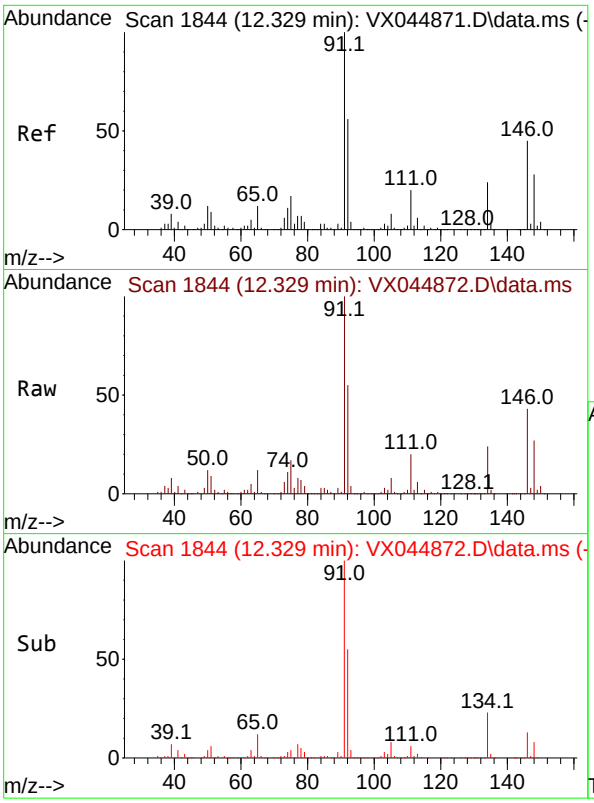


#88
1,4-Dichlorobenzene
Concen: 97.830 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:146 Resp: 303417

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.4	61.3
148	63.0	32.0	96.0

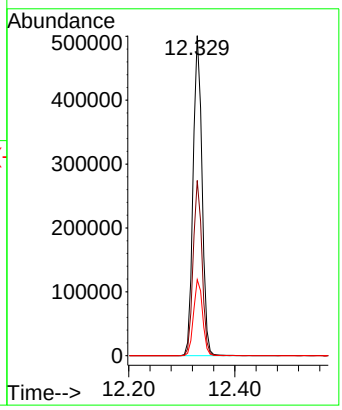




#89
n-Butylbenzene
Concen: 109.686 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 58363

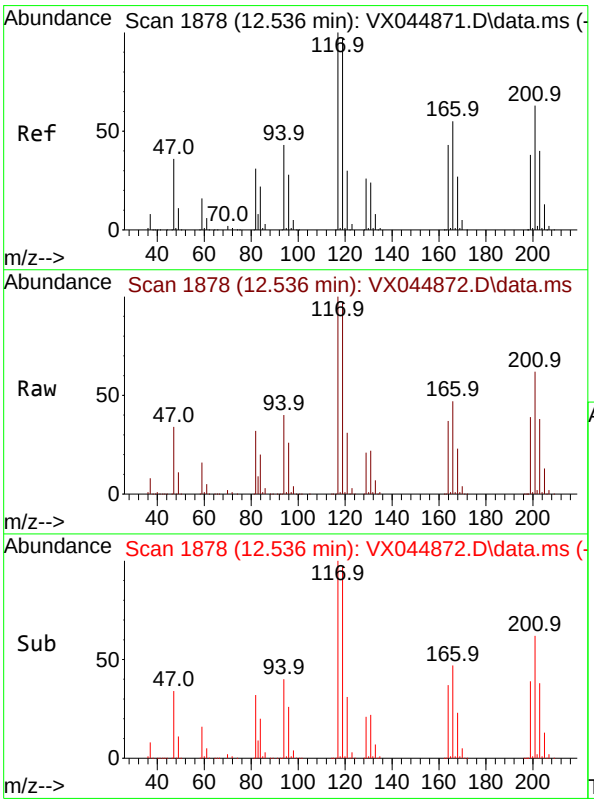
Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.0	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

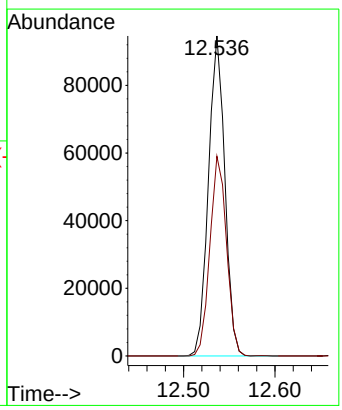
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

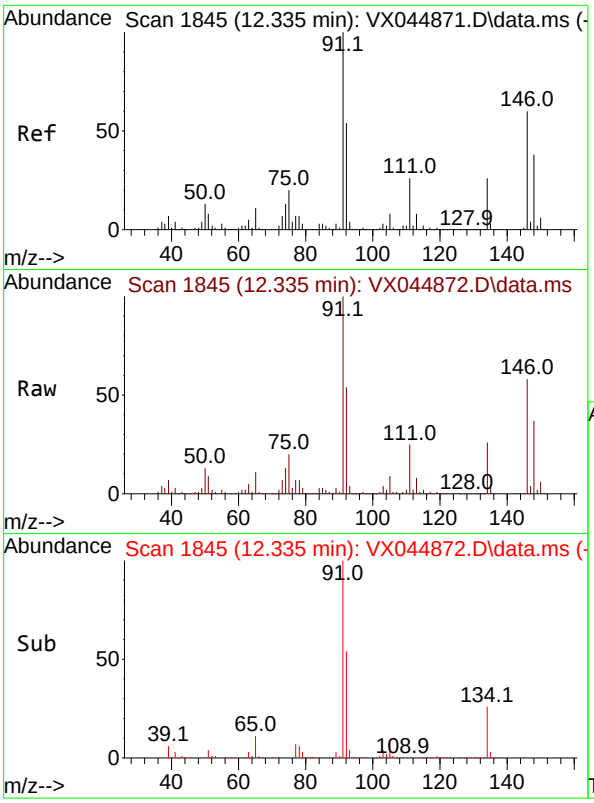


#90
Hexachloroethane
Concen: 104.365 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 117533

Ion	Ratio	Lower	Upper
117	100		
201	63.4	32.5	97.5

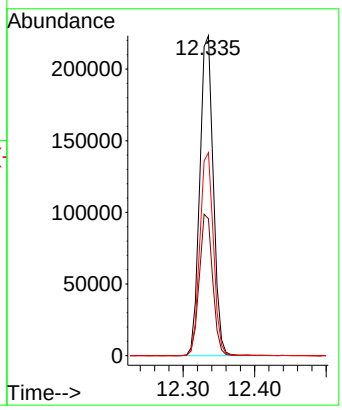




#91
1,2-Dichlorobenzene
Concen: 97.244 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:146 Resp: 29315

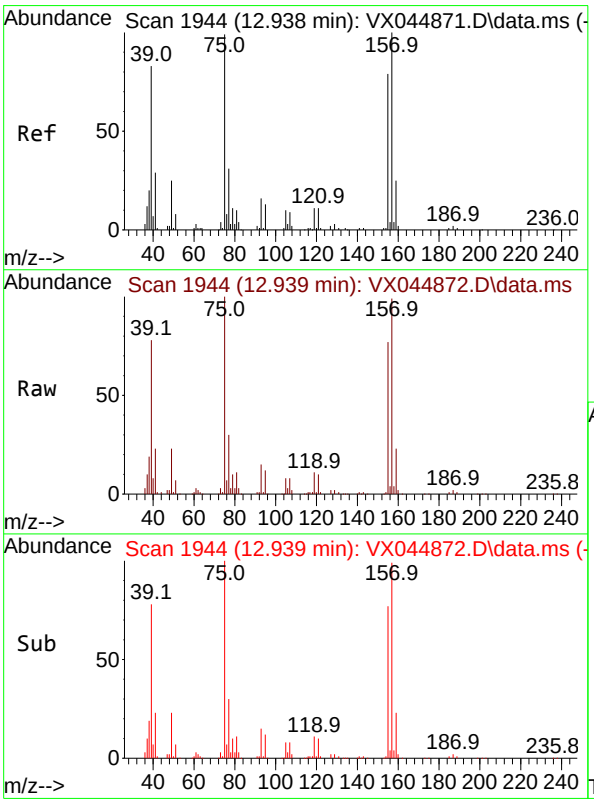
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.8	65.4
148	63.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

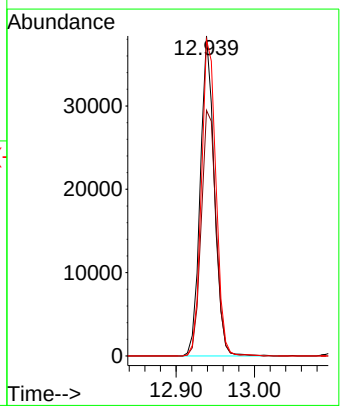
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

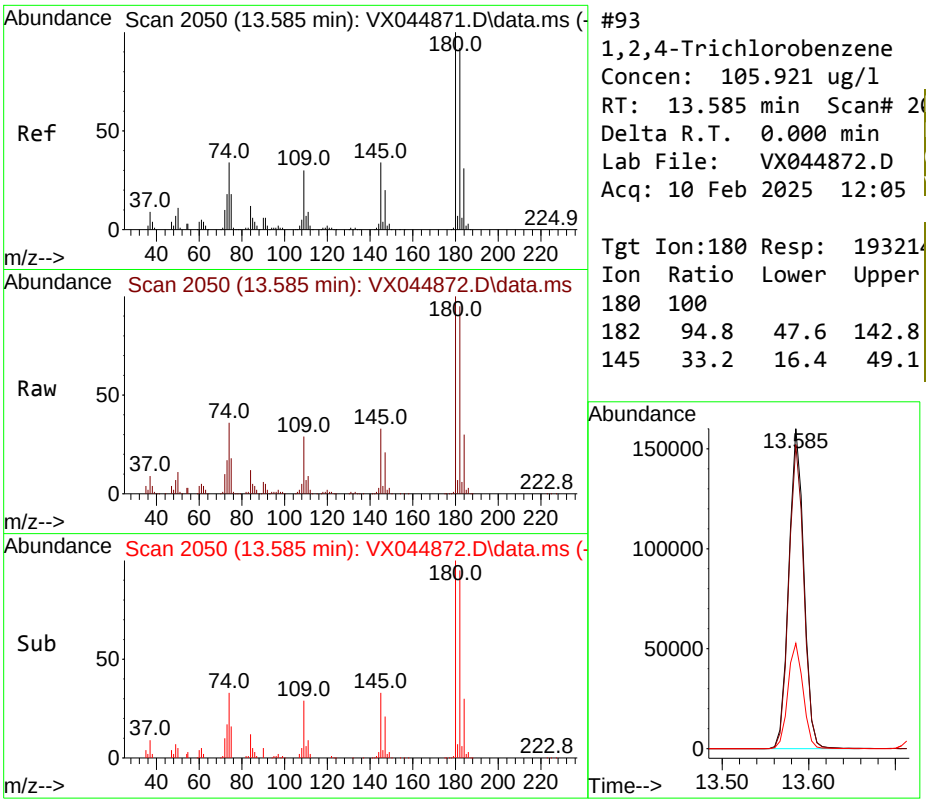


#92
1,2-Dibromo-3-Chloropropane
Concen: 103.477 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 47745

Ion	Ratio	Lower	Upper
75	100		
155	81.0	40.5	121.4
157	102.3	51.4	154.3





#93
1,2,4-Trichlorobenzene
Concen: 105.921 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

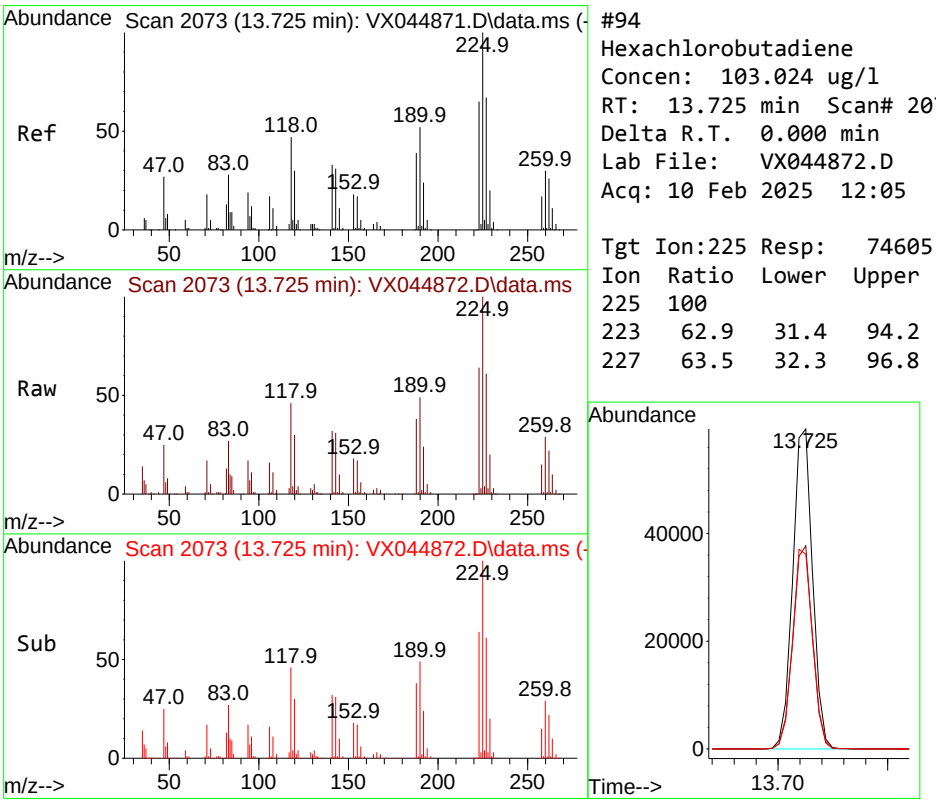
Tgt Ion:180 Resp: 19321

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.6	142.8
145	33.2	16.4	49.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

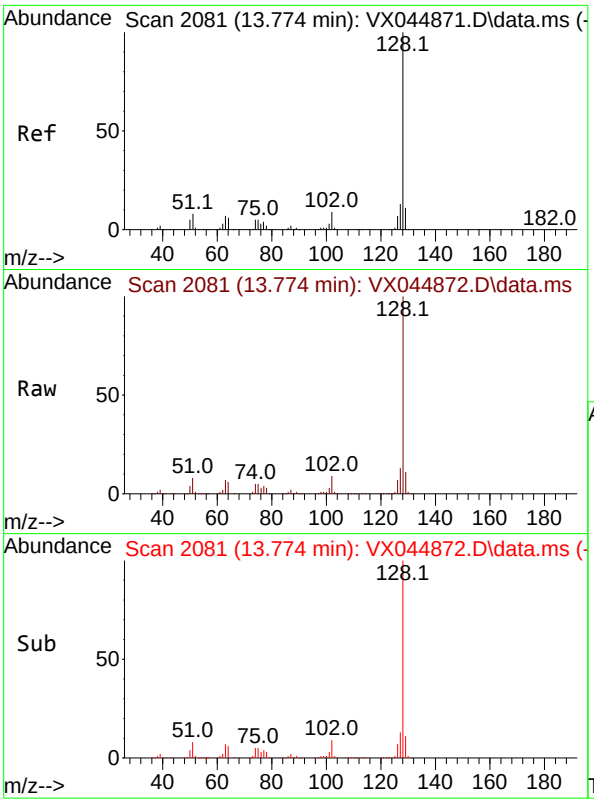
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#94
Hexachlorobutadiene
Concen: 103.024 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:225 Resp: 74605

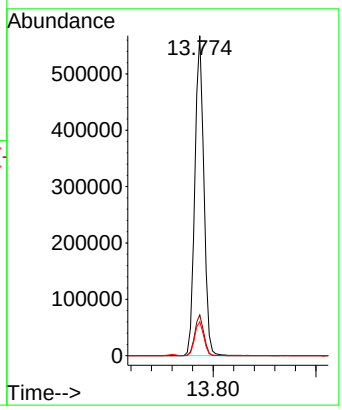
Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.2
227	63.5	32.3	96.8



#95
Naphthalene
Concen: 104.505 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:128 Resp: 68910

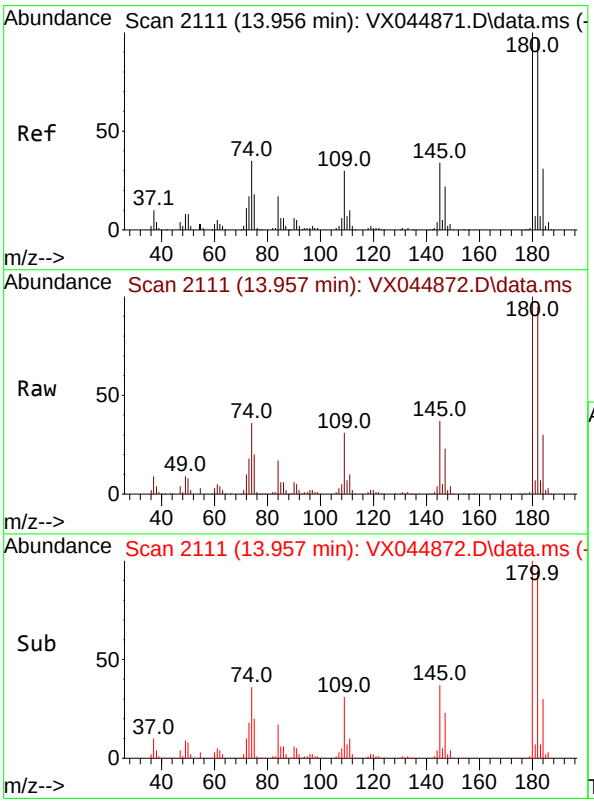
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.7	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

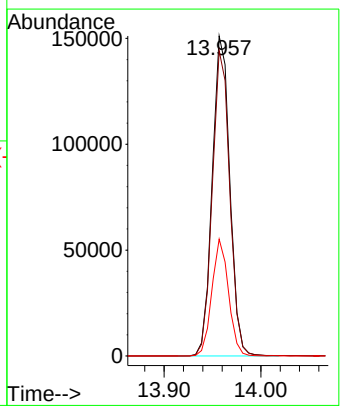
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 103.659 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:180 Resp: 190534

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.6
145	34.6	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	125253	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	232597	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	196663	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84836	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	280853	153.180	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 306.360%#			
35) Dibromofluoromethane	5.379	113	229218	151.572	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 303.140%#			
50) Toluene-d8	8.647	98	845632	147.877	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 295.760%#			
62) 4-Bromofluorobenzene	11.079	95	287486	149.124	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 298.240%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	260576	148.330	ug/l	96
3) Chloromethane	1.307	50	297968	139.361	ug/l	100
4) Vinyl Chloride	1.374	62	305986	147.723	ug/l	99
5) Bromomethane	1.593	94	92399	149.071	ug/l	96
6) Chloroethane	1.660	64	67889	130.289	ug/l	97
7) Trichlorofluoromethane	1.867	101	378664	144.558	ug/l	99
8) Diethyl Ether	2.136	74	140428	147.822	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	239215	151.147	ug/l	100
10) Methyl Iodide	2.441	142	305390	148.887	ug/l	100
11) Tert butyl alcohol	3.020	59	242430	712.734	ug/l	100
12) 1,1-Dichloroethene	2.306	96	246987	152.989	ug/l	99
13) Acrolein	2.239	56	273178	778.418	ug/l	100
14) Allyl chloride	2.654	41	438493	150.289	ug/l	97
15) Acrylonitrile	3.068	53	684234	753.423	ug/l	99
16) Acetone	2.386	43	547939	743.398	ug/l	99
17) Carbon Disulfide	2.502	76	693558	156.665	ug/l	100
18) Methyl Acetate	2.703	43	373877	160.743	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	792810	154.347	ug/l	100
20) Methylene Chloride	2.782	84	270575	149.871	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	242082	152.356	ug/l	93
22) Diisopropyl ether	3.757	45	839126	152.020	ug/l	98
23) Vinyl Acetate	3.721	43	3555031	789.993	ug/l	100
24) 1,1-Dichloroethane	3.605	63	472424	152.959	ug/l	99
25) 2-Butanone	4.556	43	914741	764.276	ug/l	98
26) 2,2-Dichloropropane	4.471	77	382167	156.029	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	292864	153.446	ug/l	99
28) Bromochloromethane	4.891	49	217387	146.458	ug/l	98
29) Tetrahydrofuran	5.001	42	596045	749.977	ug/l	99
30) Chloroform	5.086	83	453809	151.509	ug/l	99
31) Cyclohexane	5.458	56	423464	148.722	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	386162	151.996	ug/l	99
36) 1,1-Dichloropropene	5.684	75	324182	148.585	ug/l	100
37) Ethyl Acetate	4.715	43	368763	151.956	ug/l	99
38) Carbon Tetrachloride	5.672	117	320536	149.921	ug/l	98
39) Methylcyclohexane	7.373	83	443218	157.130	ug/l	99
40) Benzene	6.031	78	1014129	148.856	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	206155	158.707	ug/l		100
42) 1,2-Dichloroethane	6.080	62	336520	154.984	ug/l		99
43) Isopropyl Acetate	6.336	43	617516	157.575	ug/l		99
44) Trichloroethene	7.117	130	239030	153.496	ug/l		99
45) 1,2-Dichloropropane	7.427	63	259454	153.076	ug/l		100
46) Dibromomethane	7.574	93	179689	152.870	ug/l		99
47) Bromodichloromethane	7.818	83	357623	157.128	ug/l		98
48) Methyl methacrylate	7.690	41	297931	161.236	ug/l		99
49) 1,4-Dioxane	7.665	88	106175	2678.192	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	1736538	728.887	ug/l		100
52) Toluene	8.714	92	603113	148.645	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	378639	164.398	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	417724	162.667	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	229548	147.172	ug/l		98
56) Ethyl methacrylate	9.116	69	398535	158.205	ug/l		99
57) 1,3-Dichloropropane	9.305	76	403665	147.915	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	982120	794.010	ug/l		100
59) 2-Hexanone	9.433	43	1264470	736.622	ug/l		99
60) Dibromochloromethane	9.519	129	258320	154.862	ug/l		99
61) 1,2-Dibromoethane	9.604	107	240539	152.157	ug/l		99
64) Tetrachloroethene	9.269	164	184990	149.155	ug/l		96
65) Chlorobenzene	10.073	112	634550	150.224	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	212441	156.255	ug/l		99
67) Ethyl Benzene	10.189	91	1137842	152.647	ug/l		100
68) m/p-Xylenes	10.299	106	818971	297.841	ug/l		98
69) o-Xylene	10.640	106	401928	145.674	ug/l		99
70) Styrene	10.653	104	671843	151.140	ug/l		98
71) Bromoform	10.799	173	169481	167.033	ug/l	#	98
73) Isopropylbenzene	10.957	105	1037402	151.869	ug/l		99
74) N-amyl acetate	10.841	43	521962	168.861	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	346013	147.409	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	284934m	151.485	ug/l		
77) Bromobenzene	11.195	156	234957	151.715	ug/l		99
78) n-propylbenzene	11.305	91	1231079	156.140	ug/l		99
79) 2-Chlorotoluene	11.360	91	717766	148.123	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	822707	148.415	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	126660	173.221	ug/l		98
82) 4-Chlorotoluene	11.451	91	818099	152.602	ug/l		99
83) tert-Butylbenzene	11.713	119	838979	149.610	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	838584	153.274	ug/l		99
85) sec-Butylbenzene	11.890	105	1061101	152.806	ug/l		100
86) p-Isopropyltoluene	12.006	119	865491	154.987	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	433384	152.175	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	432987	150.362	ug/l		100
89) n-Butylbenzene	12.329	91	827359	167.469	ug/l		100
90) Hexachloroethane	12.536	117	175414	167.760	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	417167	149.042	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	73593	171.783	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	283004	167.095	ug/l		98
94) Hexachlorobutadiene	13.725	225	104674	155.682	ug/l		97
95) Naphthalene	13.774	128	1015801	165.916	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	282289	165.408	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

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

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

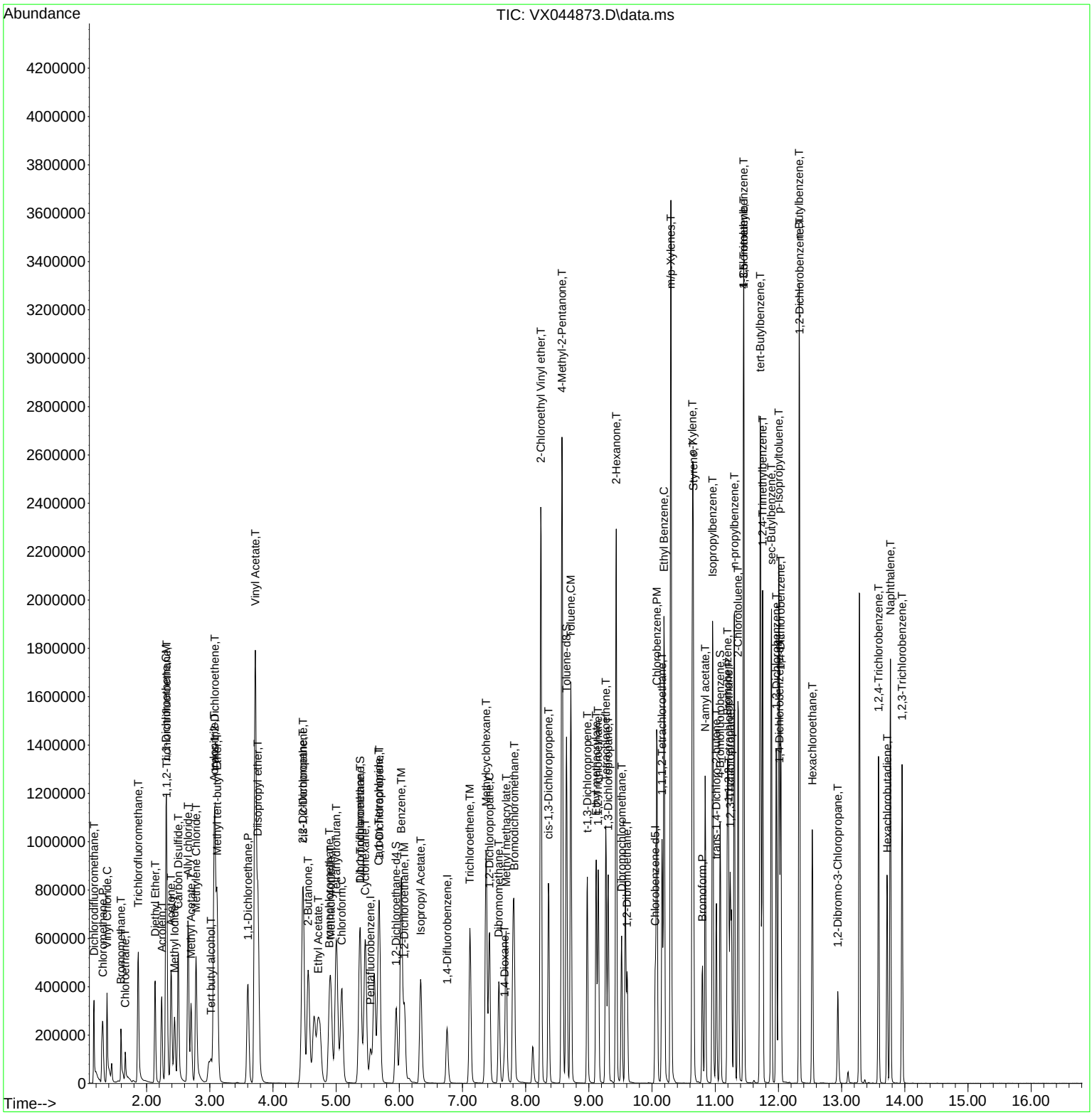
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

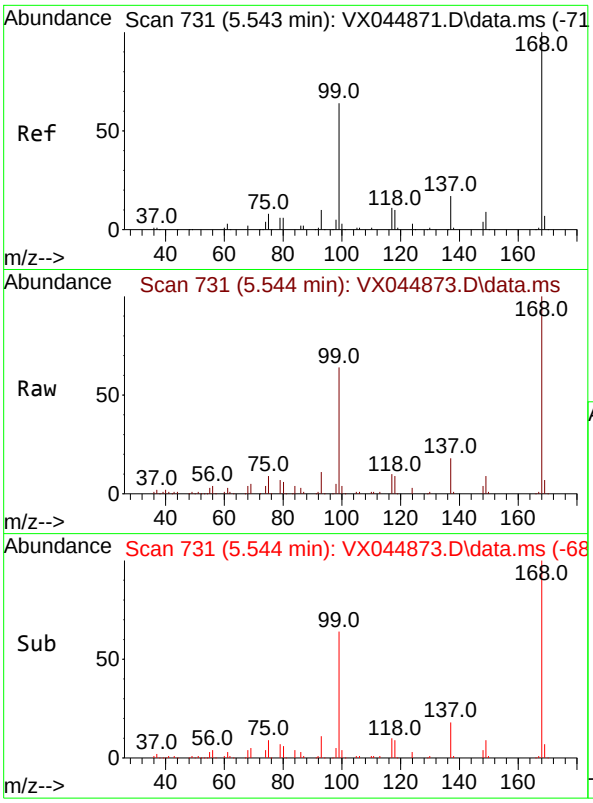
Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

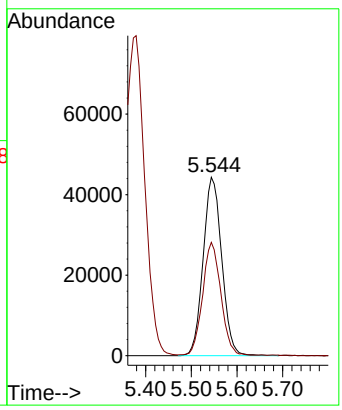




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:168 Resp: 12525

Ion	Ratio	Lower	Upper
168	100		
99	63.2	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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Reviewed By :John Carlone 02/11/2025
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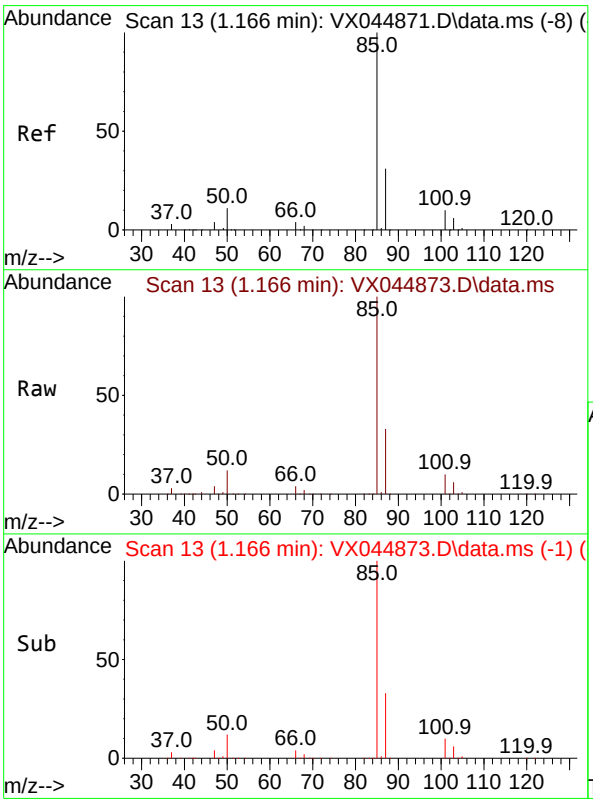
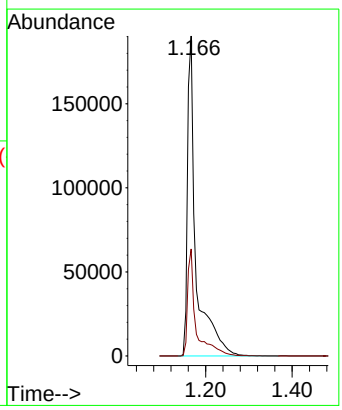
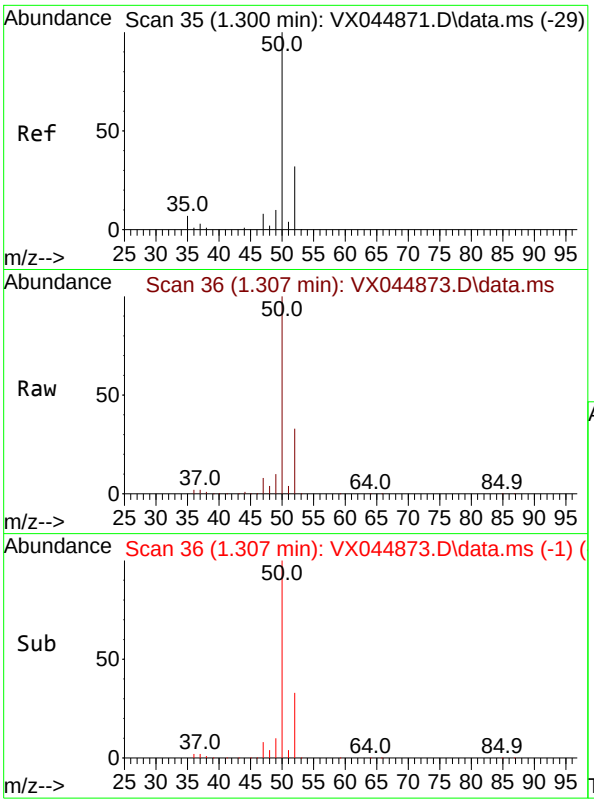


#2
Dichlorodifluoromethane
Concen: 148.330 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 85 Resp: 260576

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.8	47.3

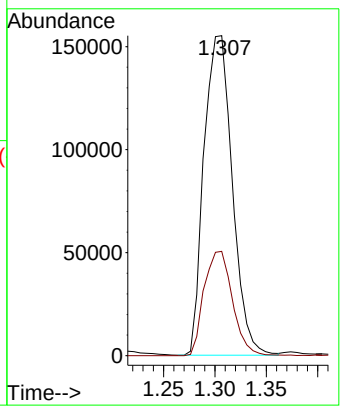




#3
Chloromethane
Concen: 139.361 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 50 Resp: 29796

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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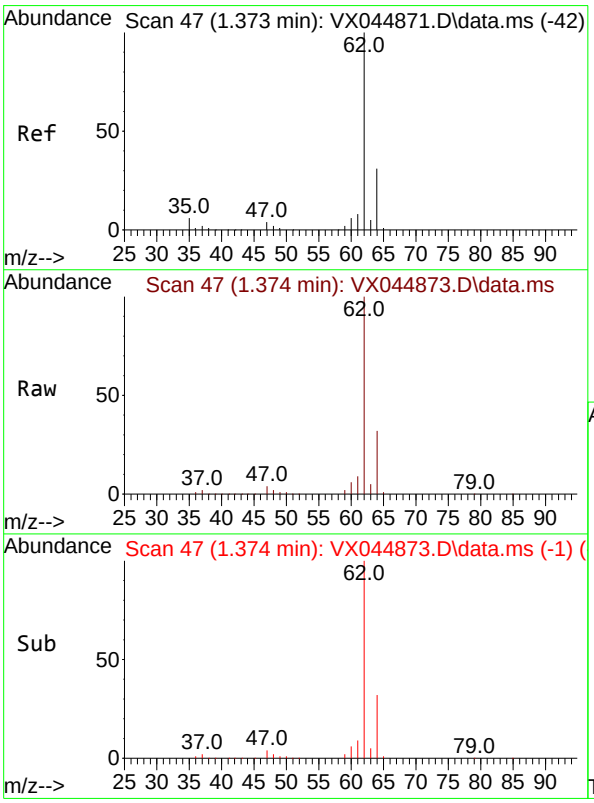
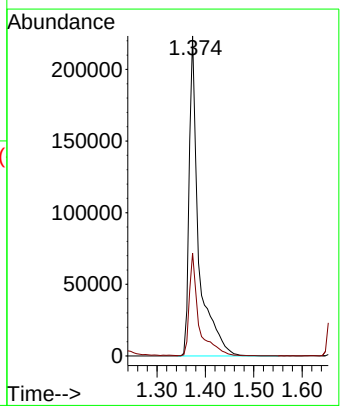
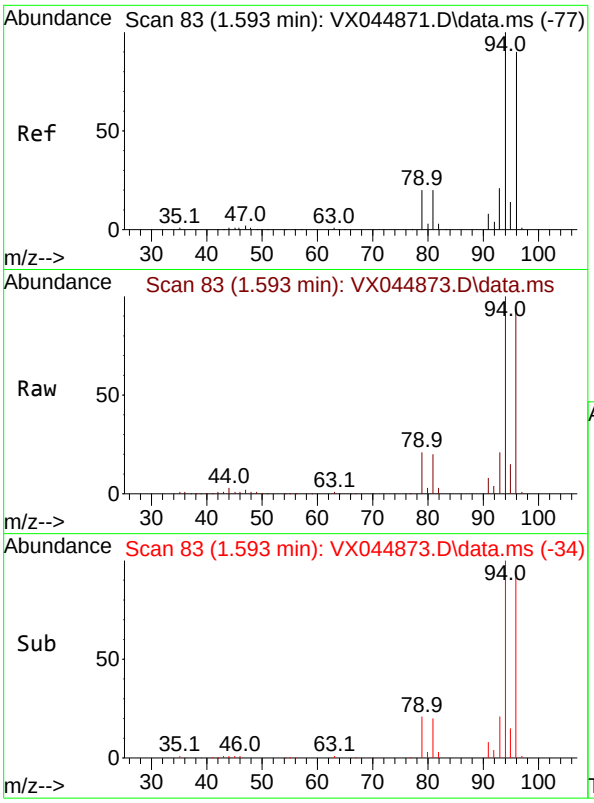


#4
Vinyl Chloride
Concen: 147.723 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 305986

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0

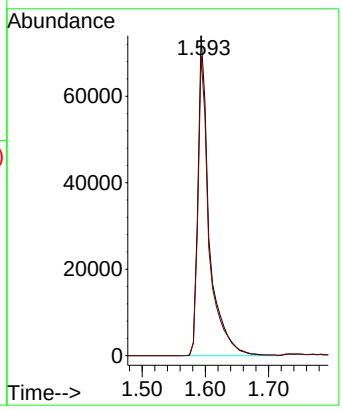




#5
Bromomethane
Concen: 149.071 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 94 Resp: 9239

Ion	Ratio	Lower	Upper
94	100		
96	93.6	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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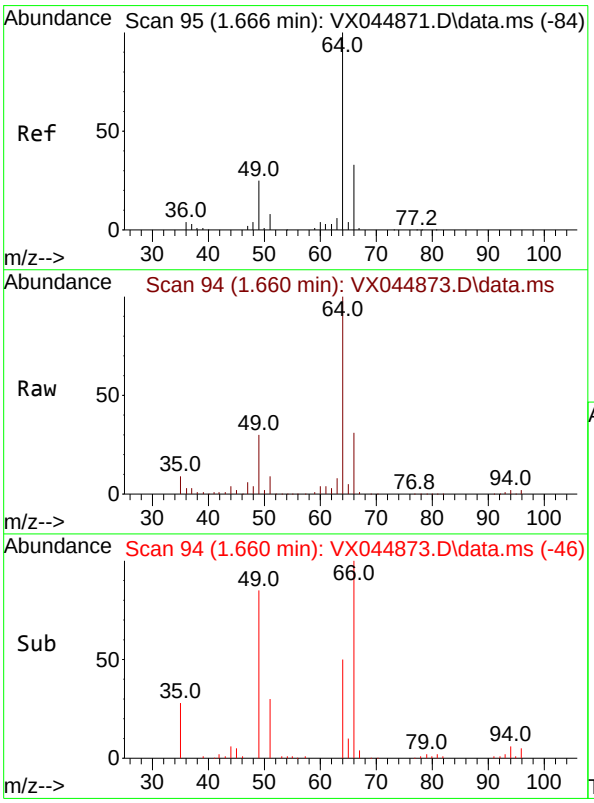
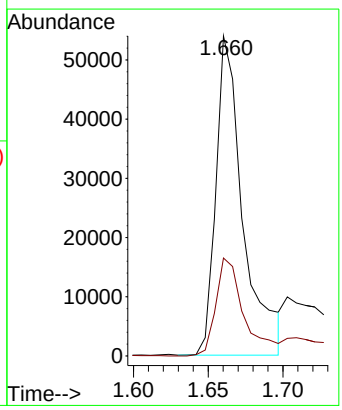
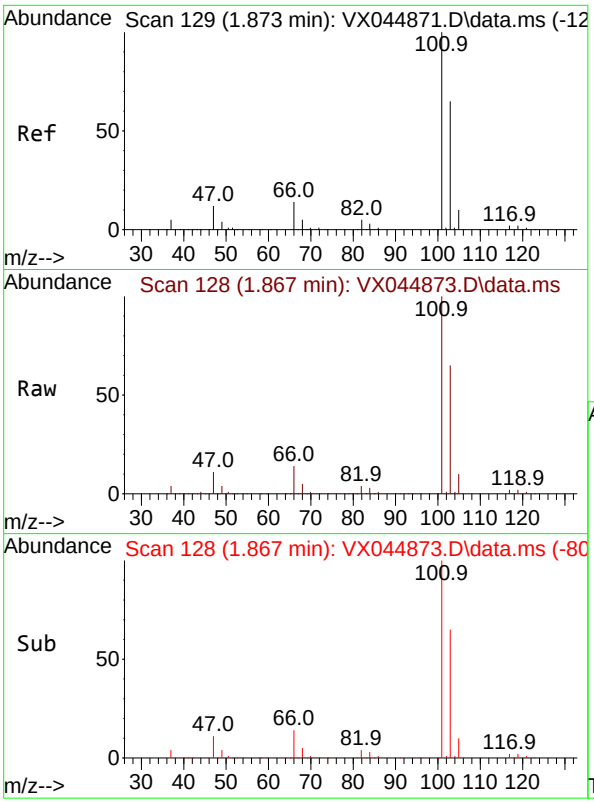


#6
Chloroethane
Concen: 130.289 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 64 Resp: 67889

Ion	Ratio	Lower	Upper
64	100		
66	30.7	25.9	38.9

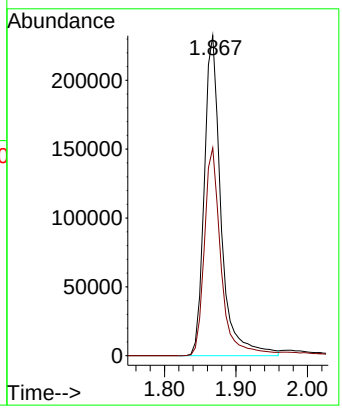




#7
Trichlorofluoromethane
Concen: 144.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:101 Resp: 37866

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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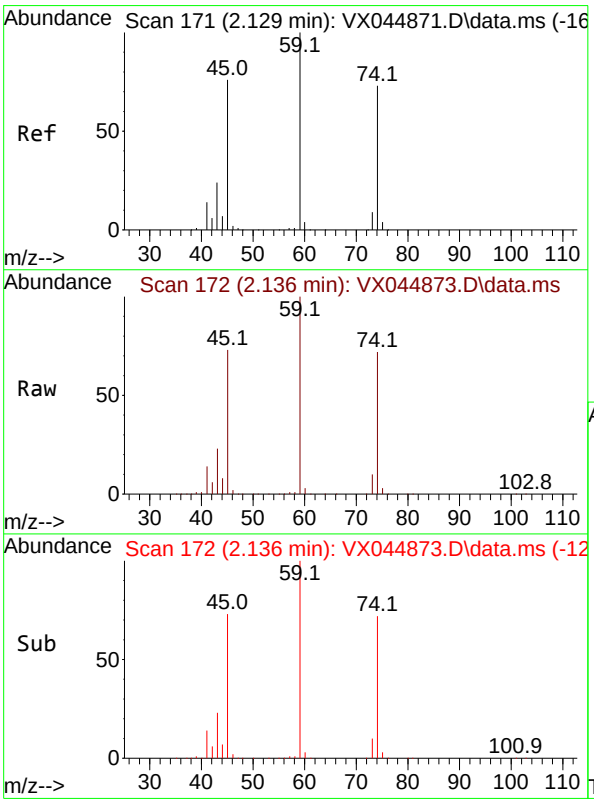
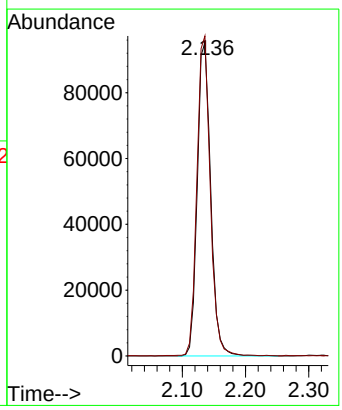
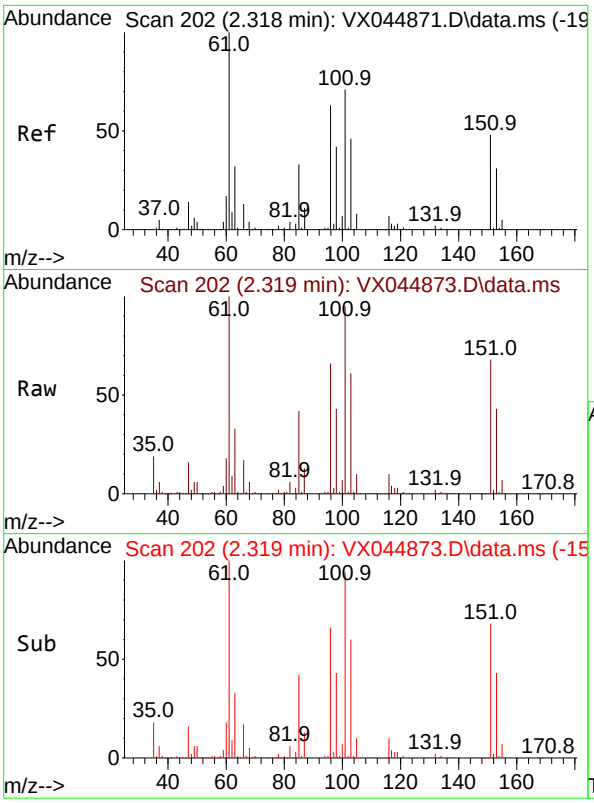


#8
Diethyl Ether
Concen: 147.822 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 74 Resp: 140428

Ion	Ratio	Lower	Upper
74	100		
45	102.1	51.1	153.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.147 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:101 Resp: 23921

Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.7	53.5
151	70.2	56.0	84.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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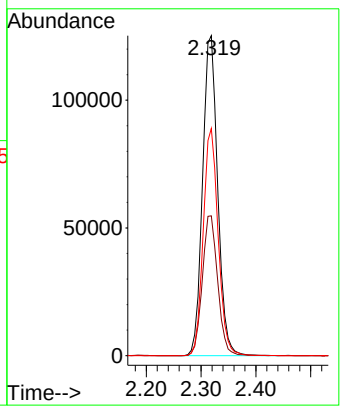
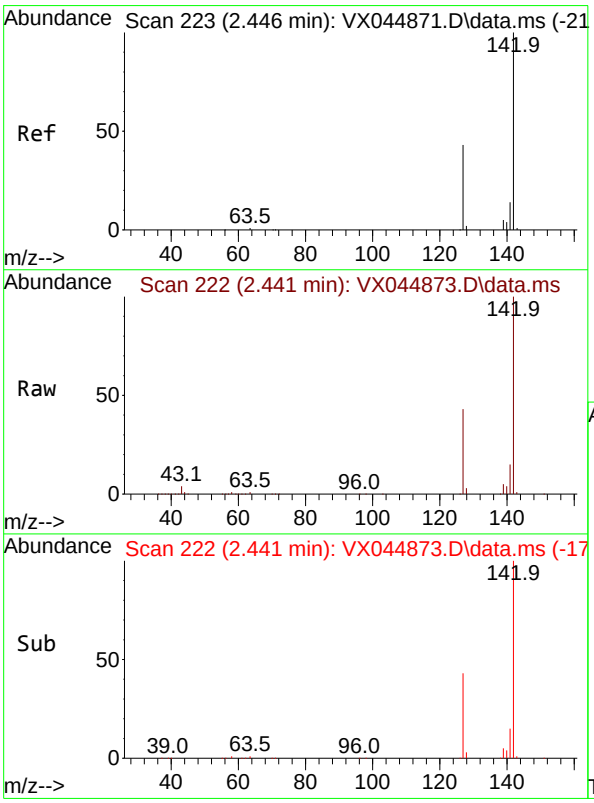
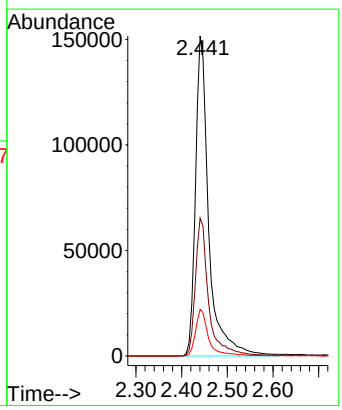


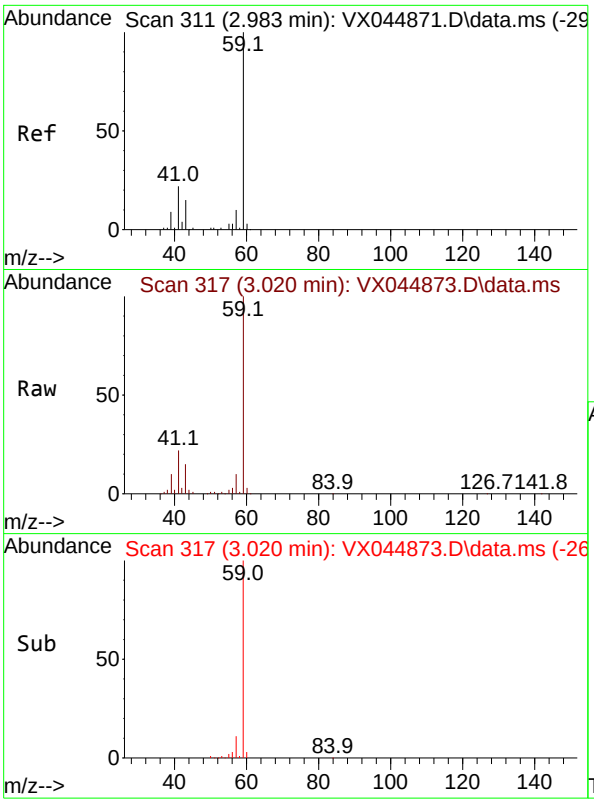


#10
Methyl Iodide
Concen: 148.887 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:142 Resp: 305390

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.4	11.4	17.2

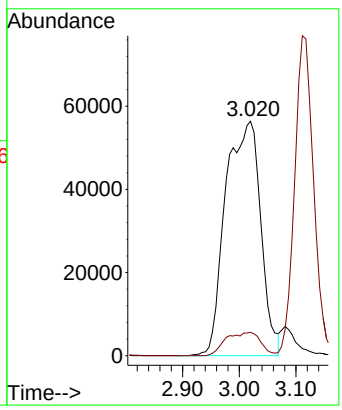




#11
Tert butyl alcohol
Concen: 712.734 ug/l
RT: 3.020 min Scan# 3
Delta R.T. 0.037 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 59 Resp: 24243

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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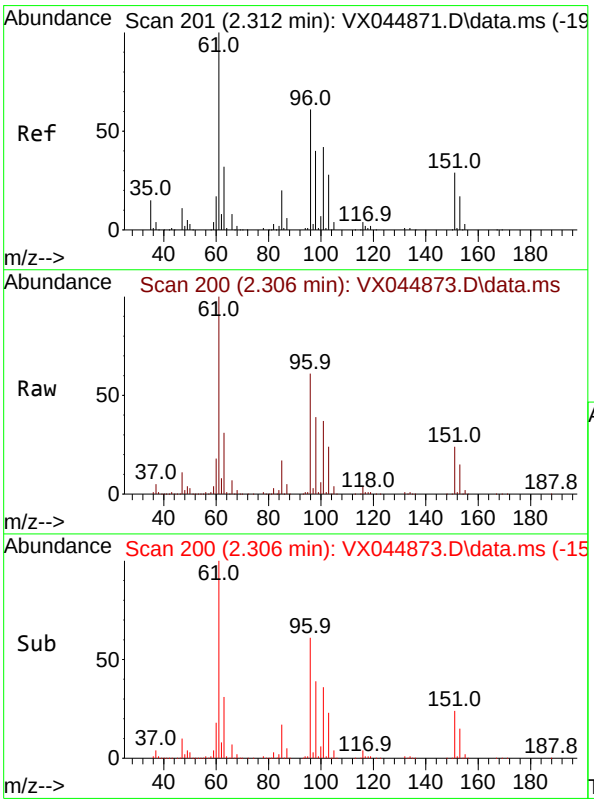
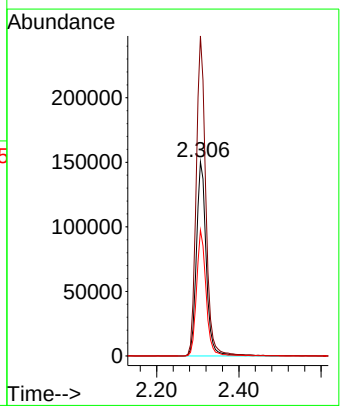
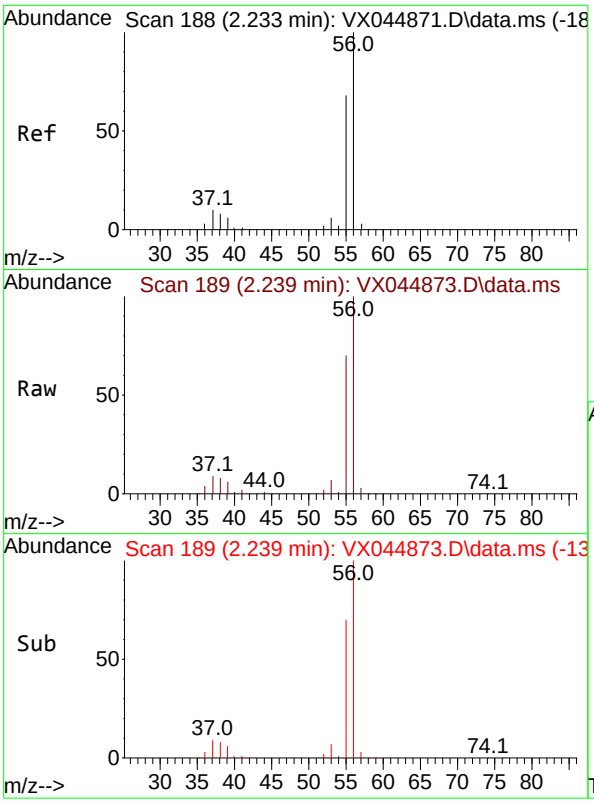


#12
1,1-Dichloroethene
Concen: 152.989 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 96 Resp: 246987

Ion	Ratio	Lower	Upper
96	100		
61	164.9	130.2	195.4
98	64.8	52.2	78.4

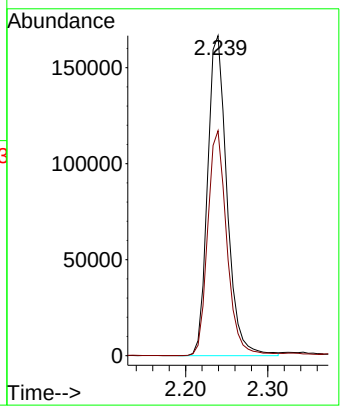




#13
Acrolein
Concen: 778.418 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 56 Resp: 27317

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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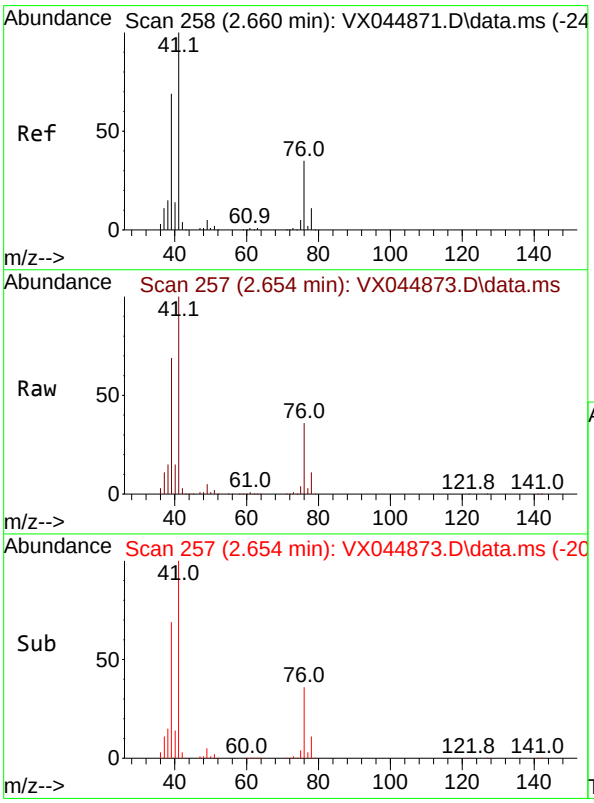
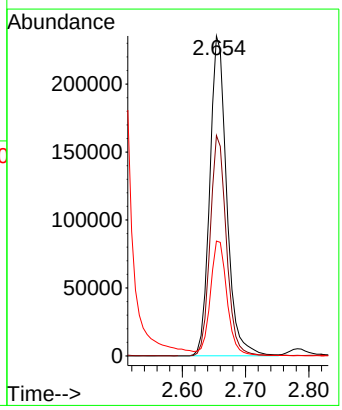
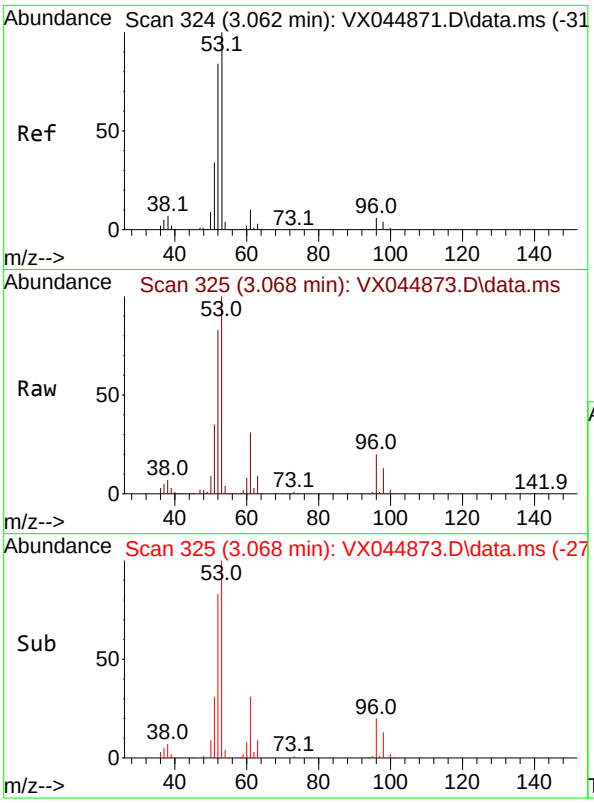


#14
Allyl chloride
Concen: 150.289 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 438493

Ion	Ratio	Lower	Upper
41	100		
39	66.1	51.4	77.2
76	35.7	27.0	40.4

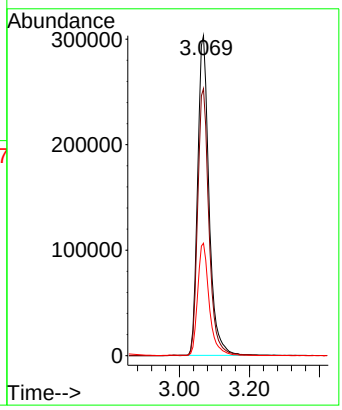




#15
Acrylonitrile
Concen: 753.423 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 53 Resp: 68423

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.0	97.6
51	35.2	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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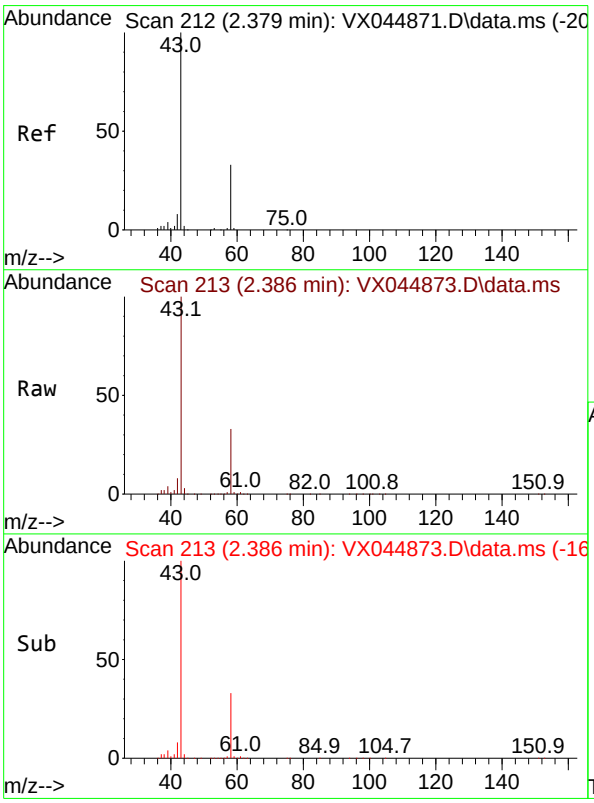
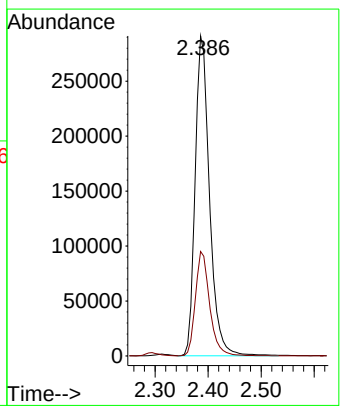
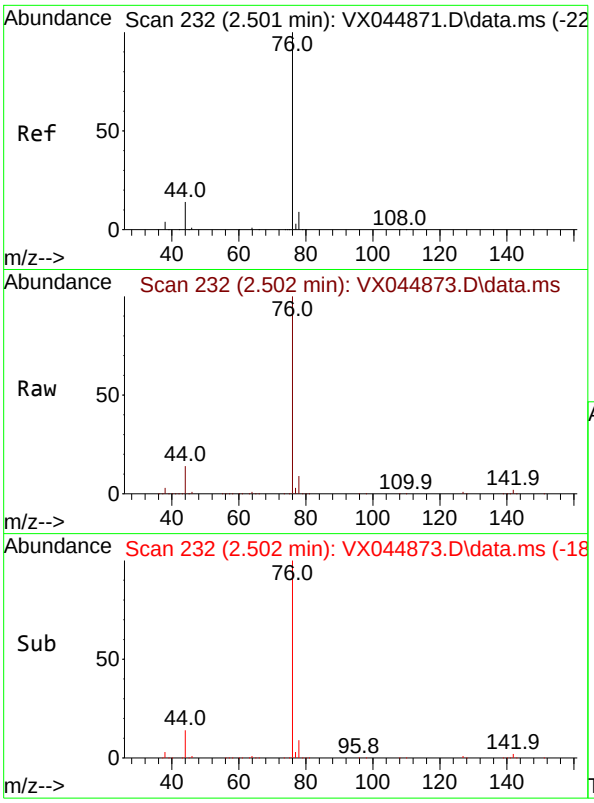


#16
Acetone
Concen: 743.398 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 547939

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7

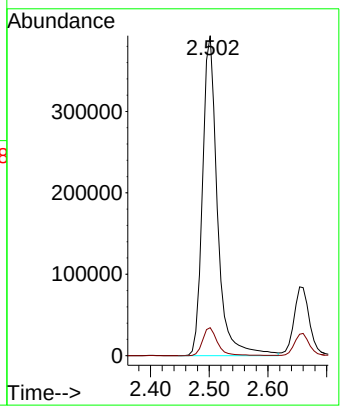




#17
Carbon Disulfide
Concen: 156.665 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 76 Resp: 69355

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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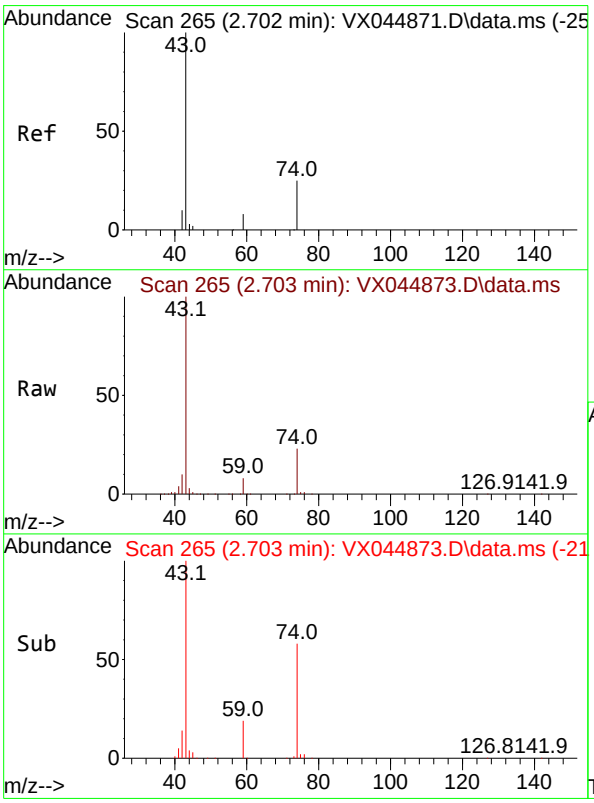
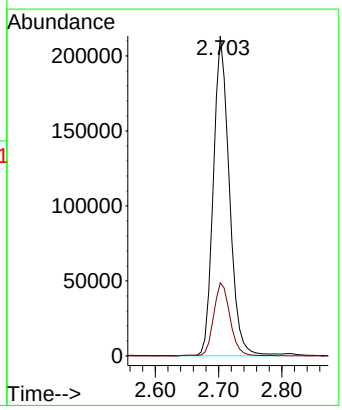
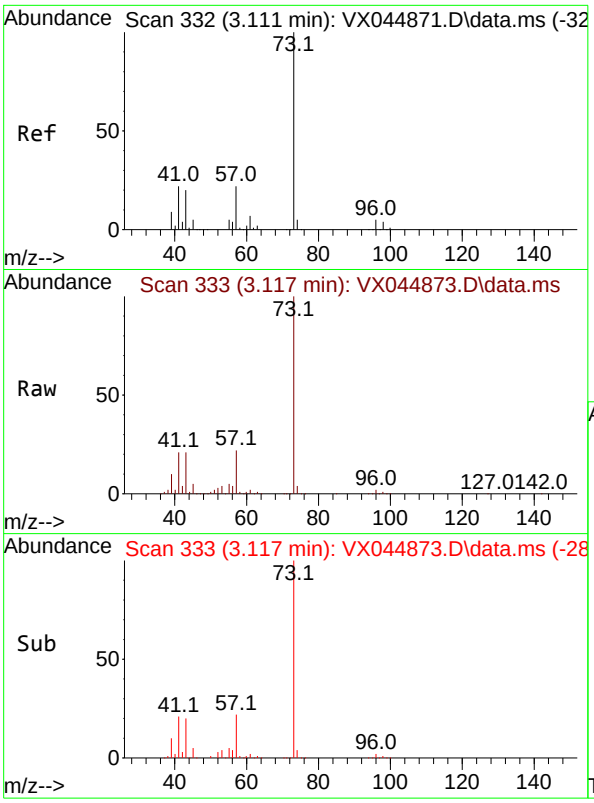


#18
Methyl Acetate
Concen: 160.743 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 373877

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.9	28.3

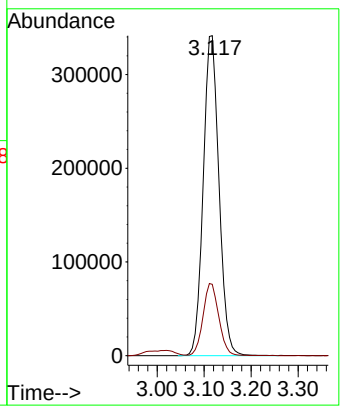




#19
Methyl tert-butyl Ether
Concen: 154.347 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 73 Resp: 79281

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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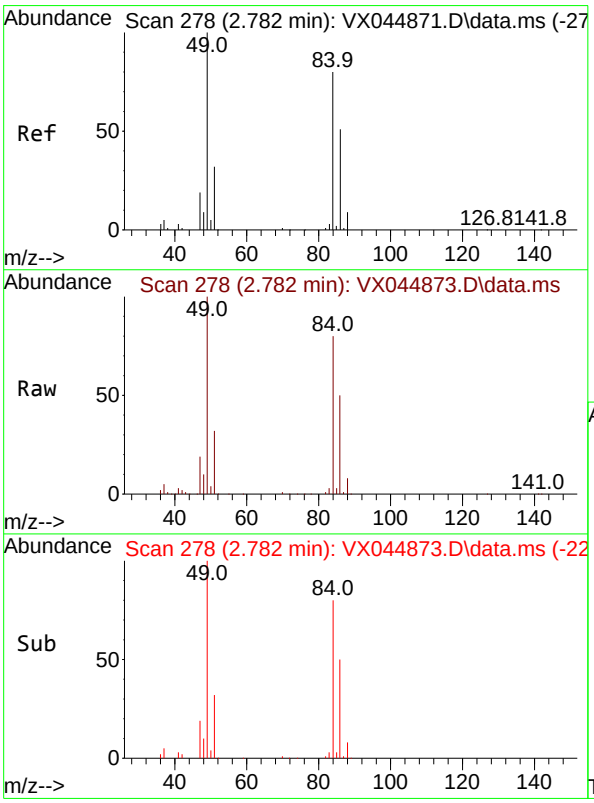
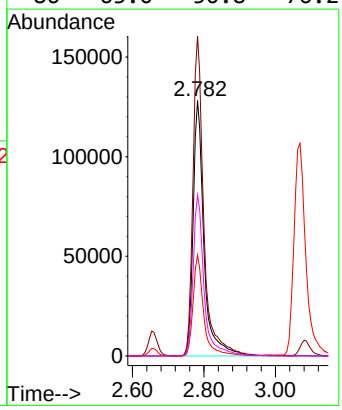
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

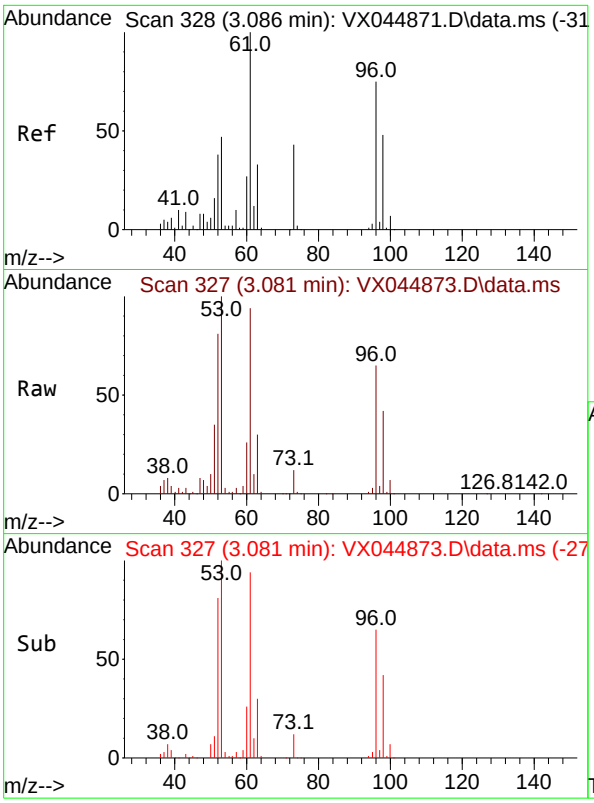


#20
Methylene Chloride
Concen: 149.871 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 84 Resp: 270575

Ion	Ratio	Lower	Upper
84	100		
49	125.2	100.1	150.1
51	39.5	31.7	47.5
86	63.0	50.8	76.2

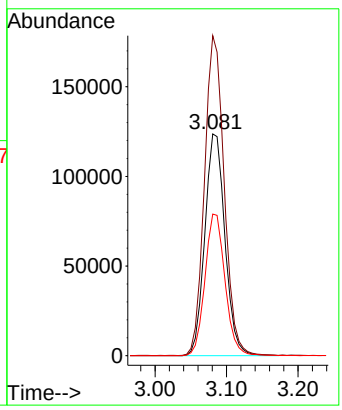




#21
trans-1,2-Dichloroethene
Concen: 152.356 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 96 Resp: 24208

Ion	Ratio	Lower	Upper
96	100		
61	144.2	106.0	159.0
98	63.9	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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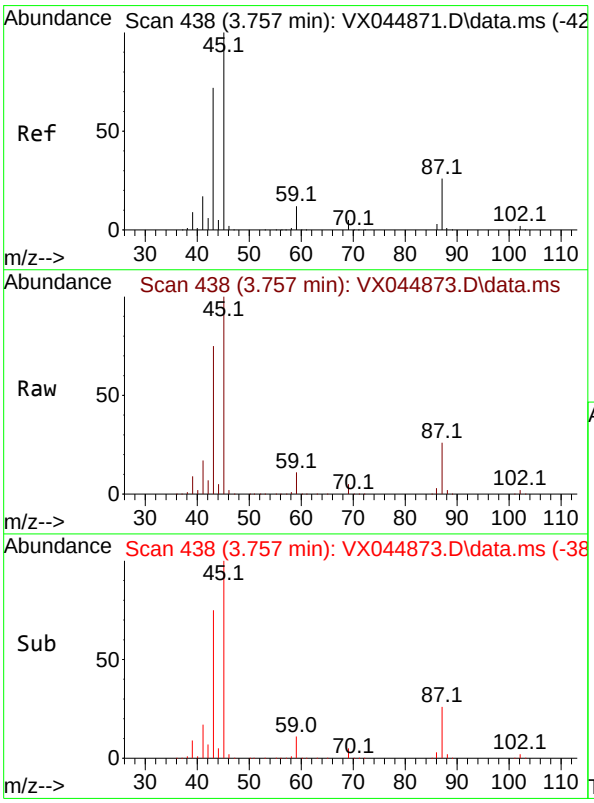
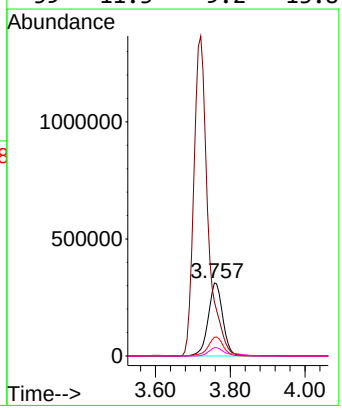
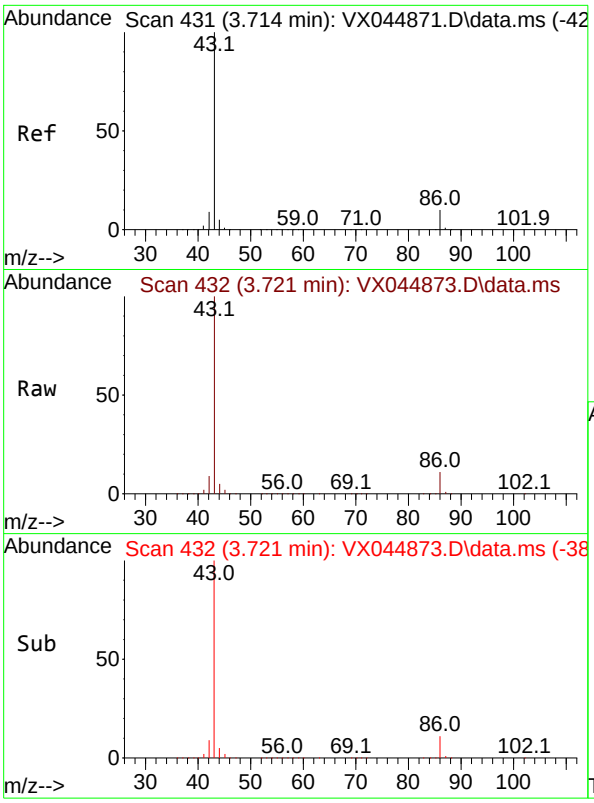


#22
Diisopropyl ether
Concen: 152.020 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 45 Resp: 839126

Ion	Ratio	Lower	Upper
45	100		
43	74.6	58.0	87.0
87	25.8	20.7	31.1
59	11.3	9.2	13.8

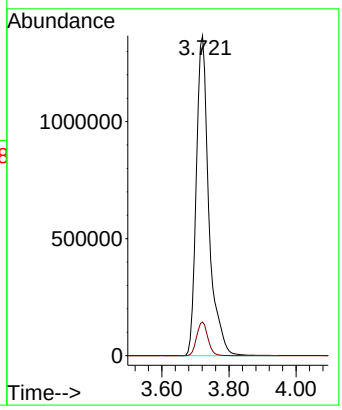




#23
Vinyl Acetate
Concen: 789.993 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 355503

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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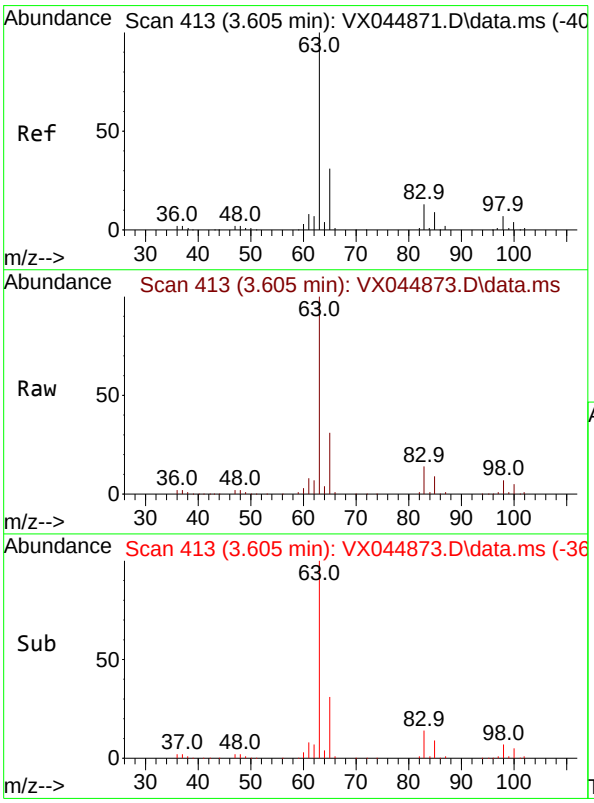
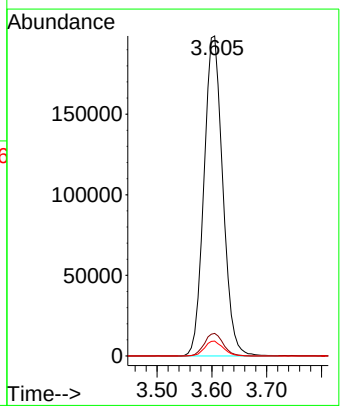
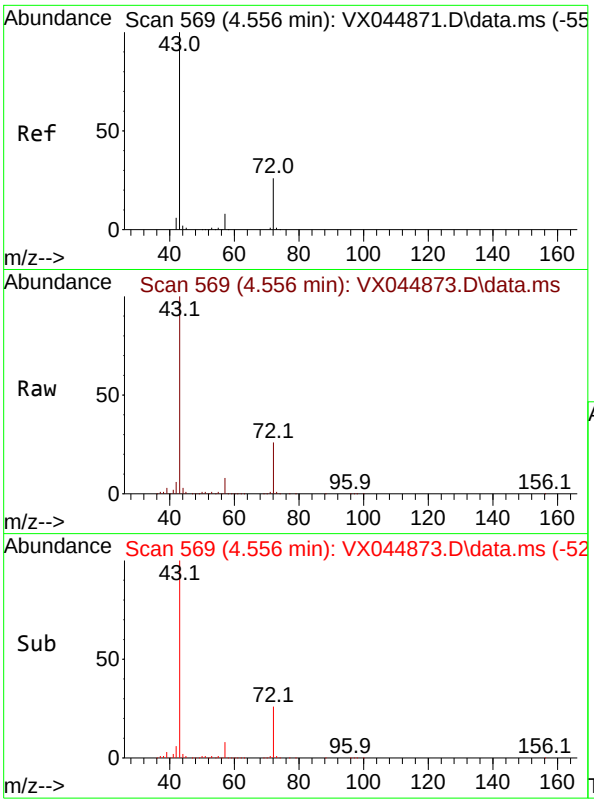


#24
1,1-Dichloroethane
Concen: 152.959 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 472424

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.3	9.9
100	4.6	2.1	6.5

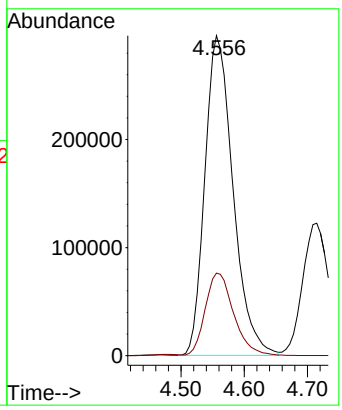




#25
2-Butanone
Concen: 764.276 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 91474

Ion	Ratio	Lower	Upper
43	100		
72	25.6	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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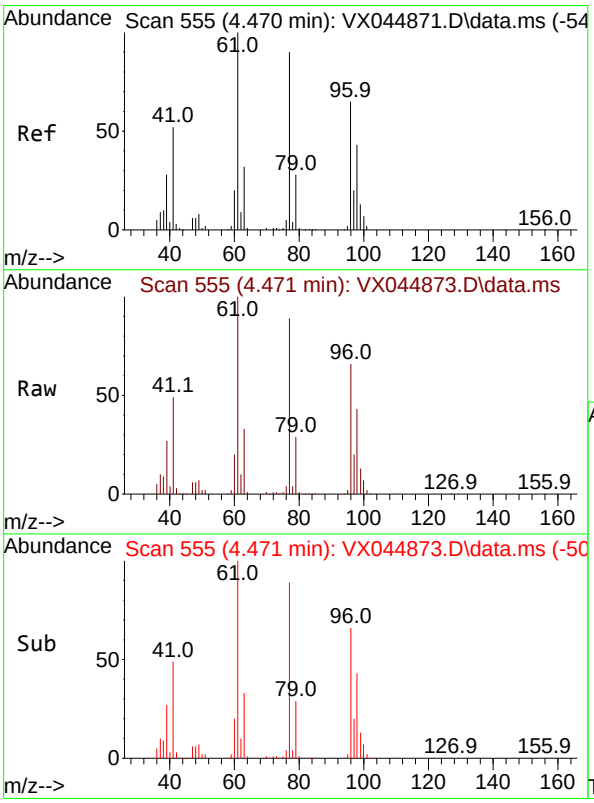
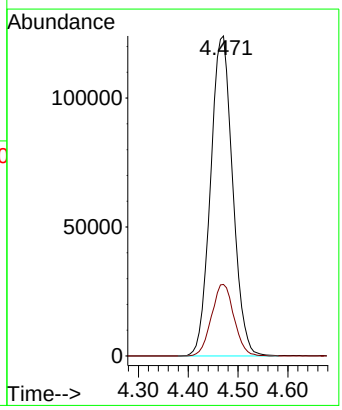
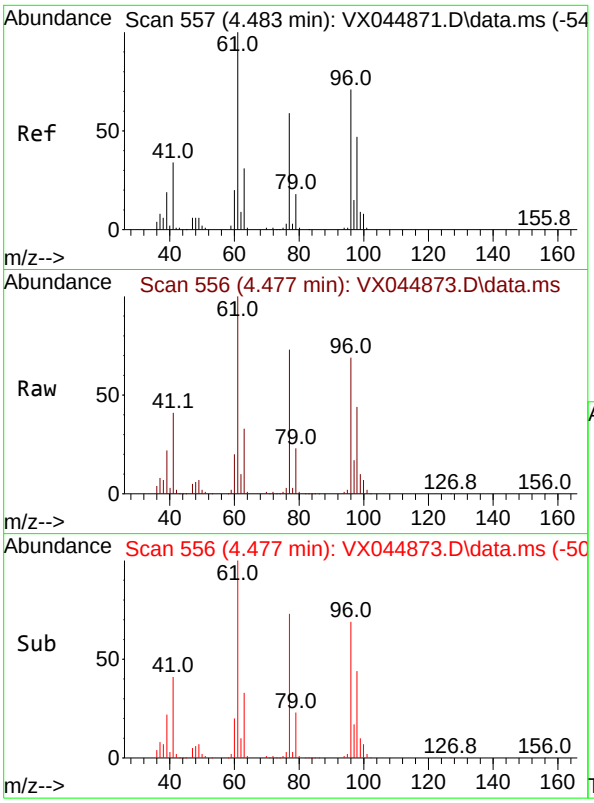


#26
2,2-Dichloropropane
Concen: 156.029 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 77 Resp: 382167

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.8	35.3

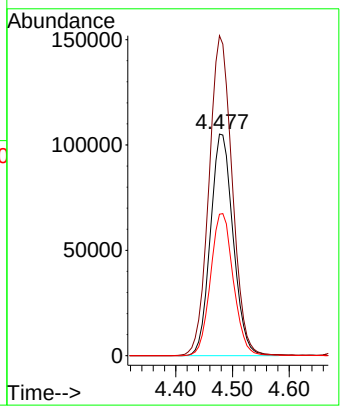




#27
cis-1,2-Dichloroethene
Concen: 153.446 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 96 Resp: 29286

Ion	Ratio	Lower	Upper
96	100		
61	148.1	0.0	294.0
98	64.6	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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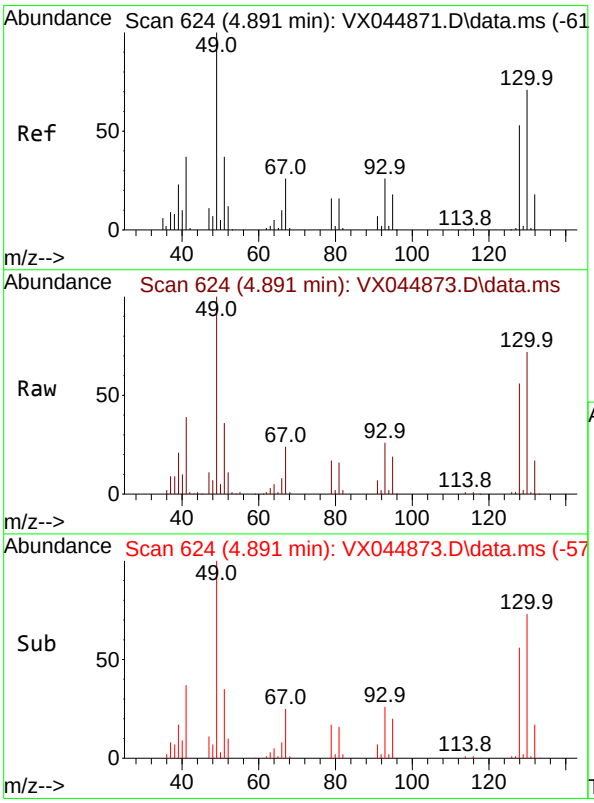
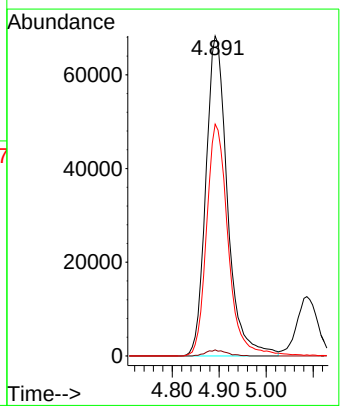
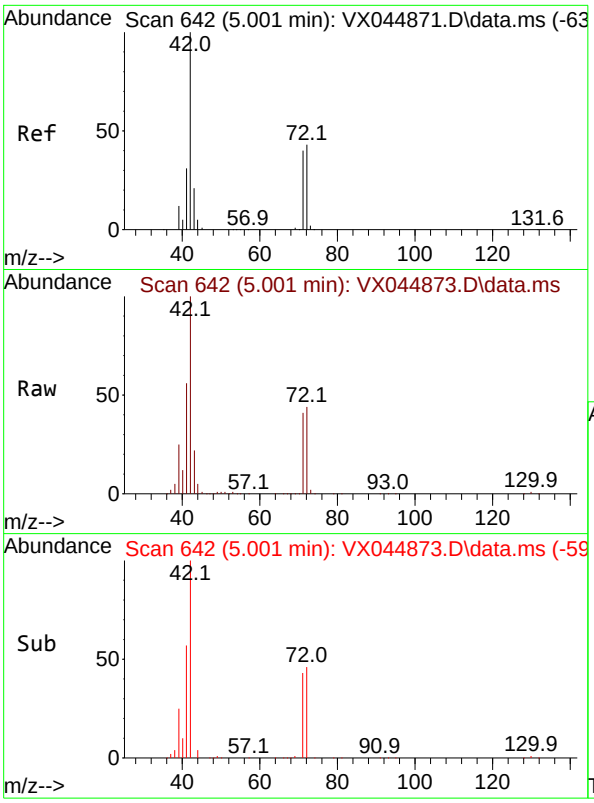


#28
Bromochloromethane
Concen: 146.458 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 49 Resp: 217387

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	72.6	56.7	85.1

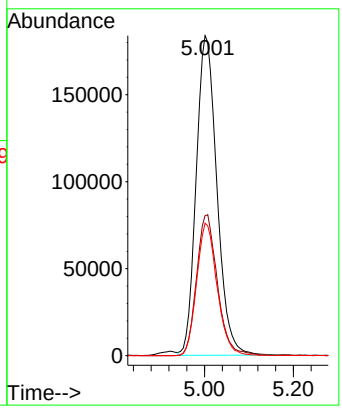




#29
Tetrahydrofuran
Concen: 749.977 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 42 Resp: 59604

Ion	Ratio	Lower	Upper
42	100		
72	44.5	35.0	52.4
71	41.0	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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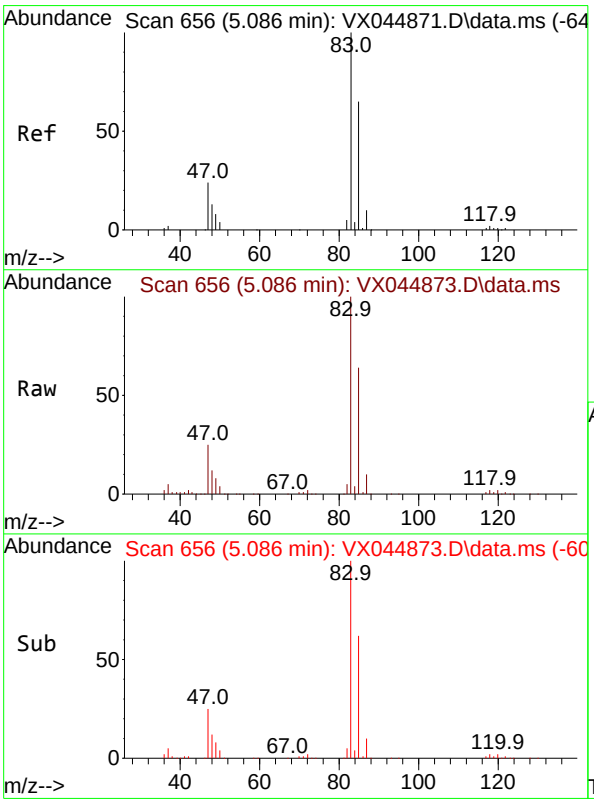
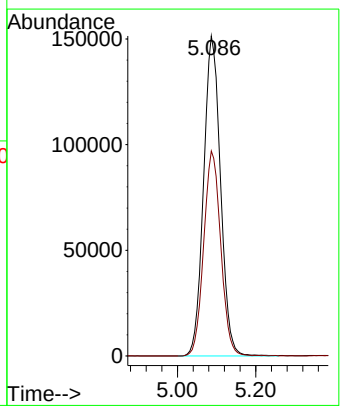
Supervised By :Mahesh Dadoda 02/11/2025

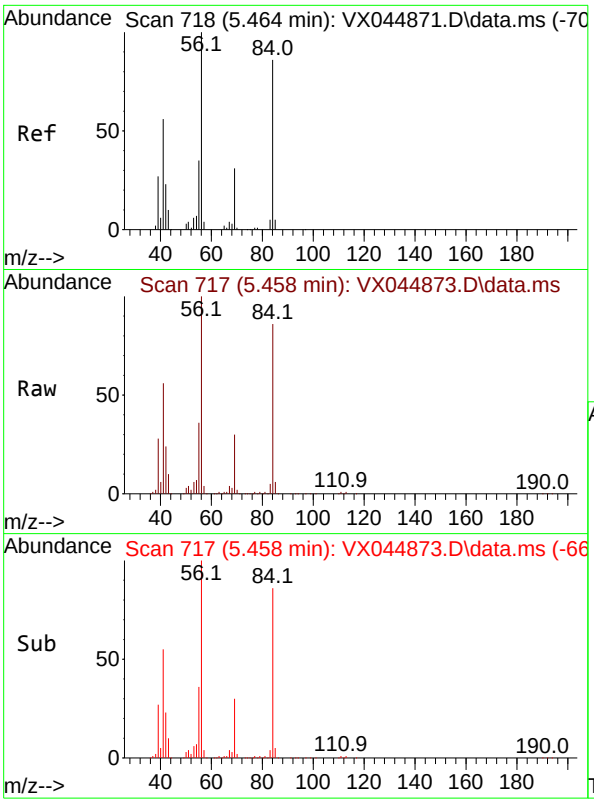


#30
Chloroform
Concen: 151.509 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 453809

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.1	78.1

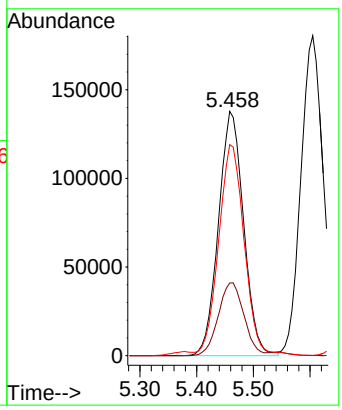




#31
Cyclohexane
Concen: 148.722 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 56 Resp: 42346

Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.4	36.6
84	85.0	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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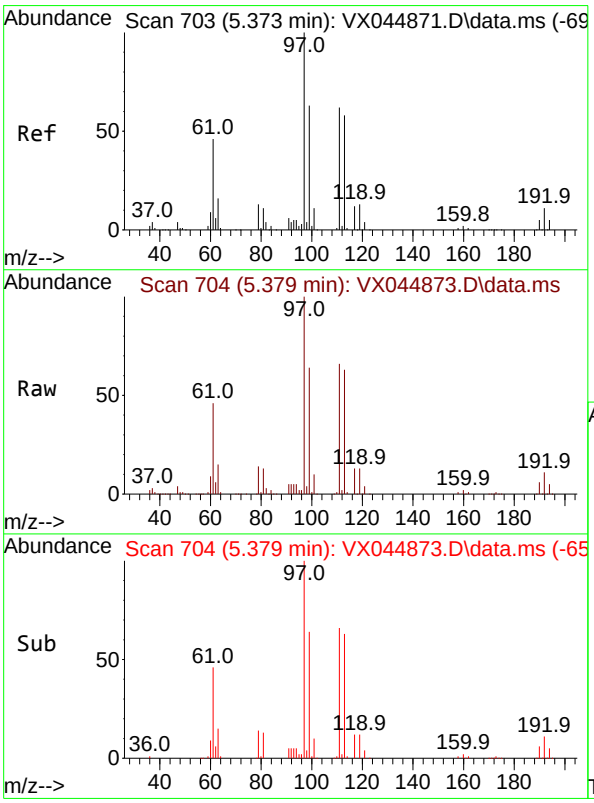
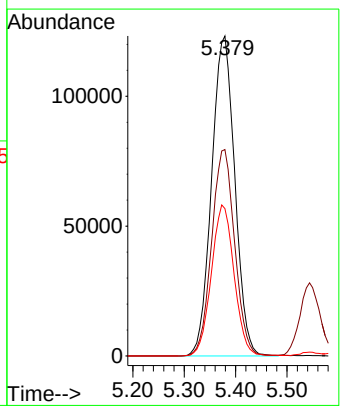
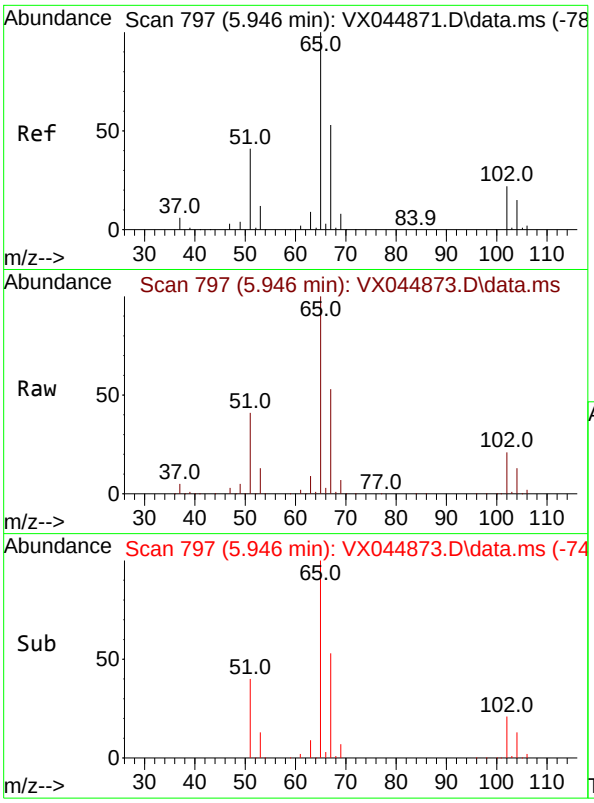


#32
1,1,1-Trichloroethane
Concen: 151.996 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 97 Resp: 386162

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.0	76.6
61	46.4	36.6	55.0

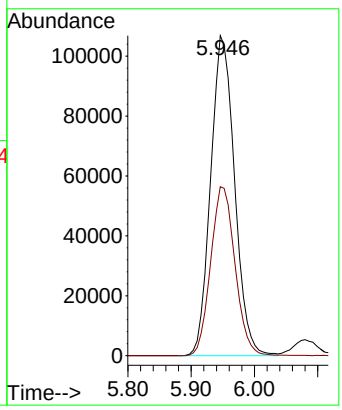




#33
1,2-Dichloroethane-d4
Concen: 153.180 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 65 Resp: 28085

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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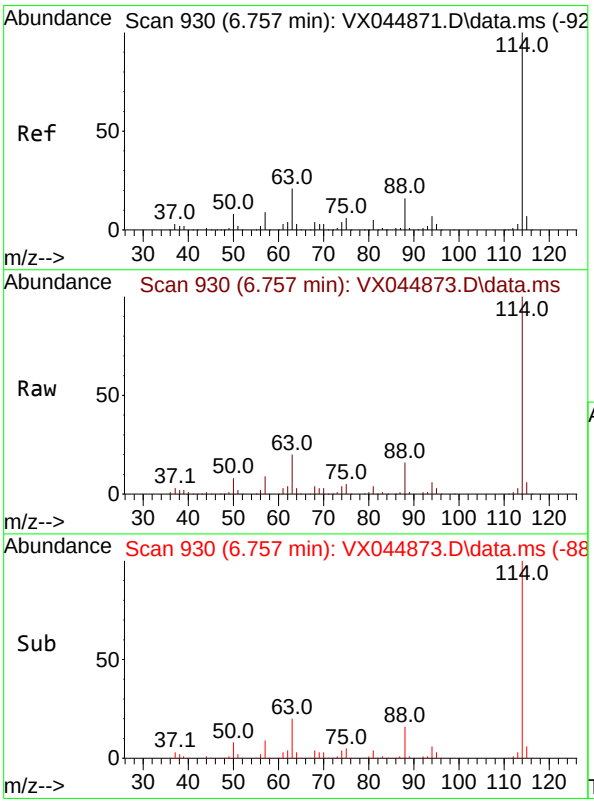
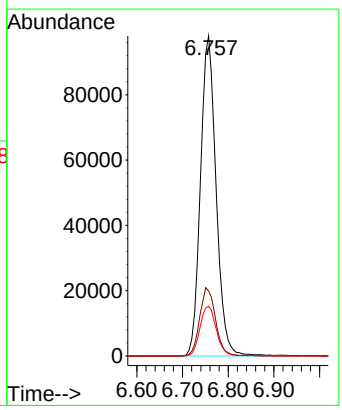
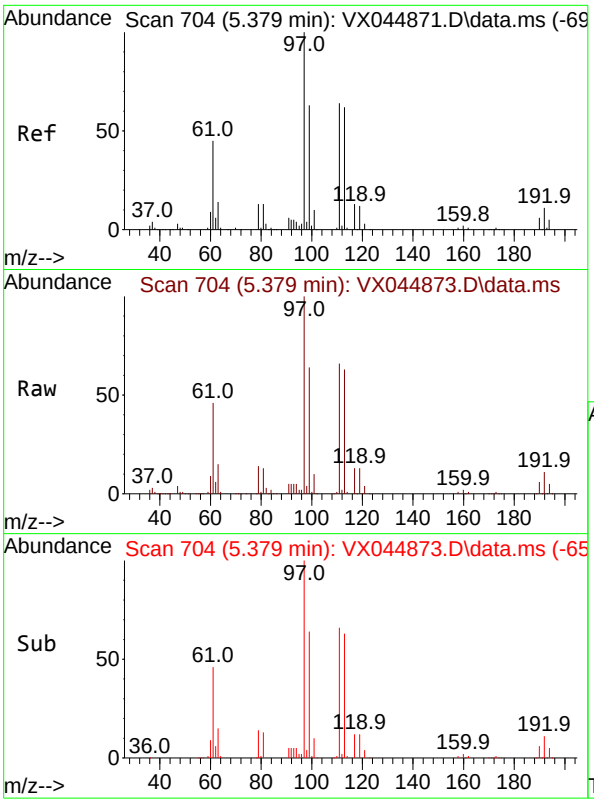


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:114 Resp: 232597

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.4
88	15.5	0.0	31.4

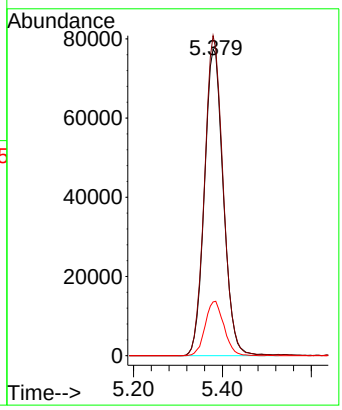




#35
Dibromofluoromethane
Concen: 151.572 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:113 Resp: 22921

Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.5	125.3
192	17.6	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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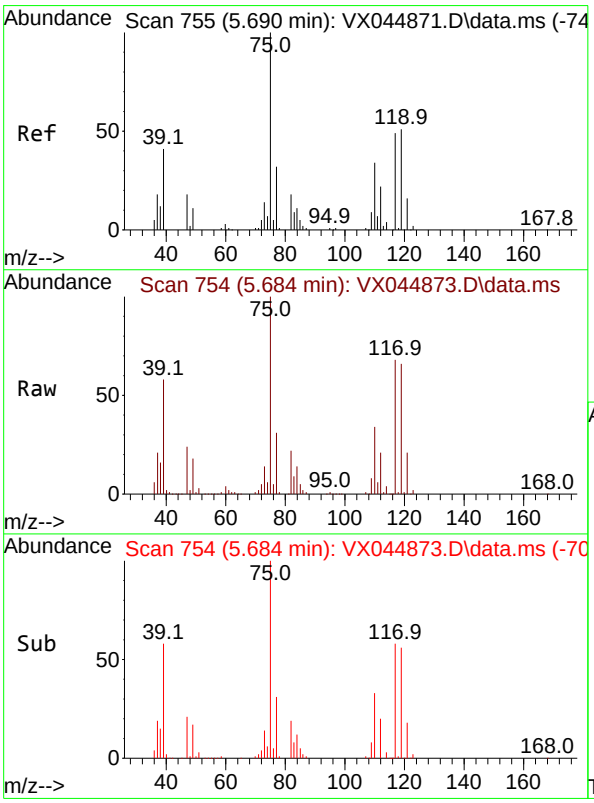
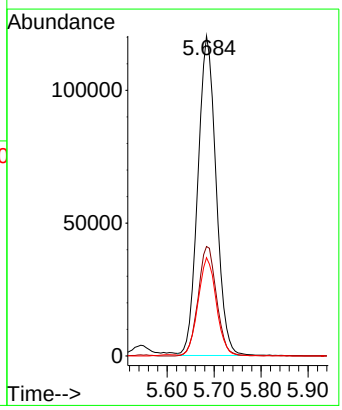
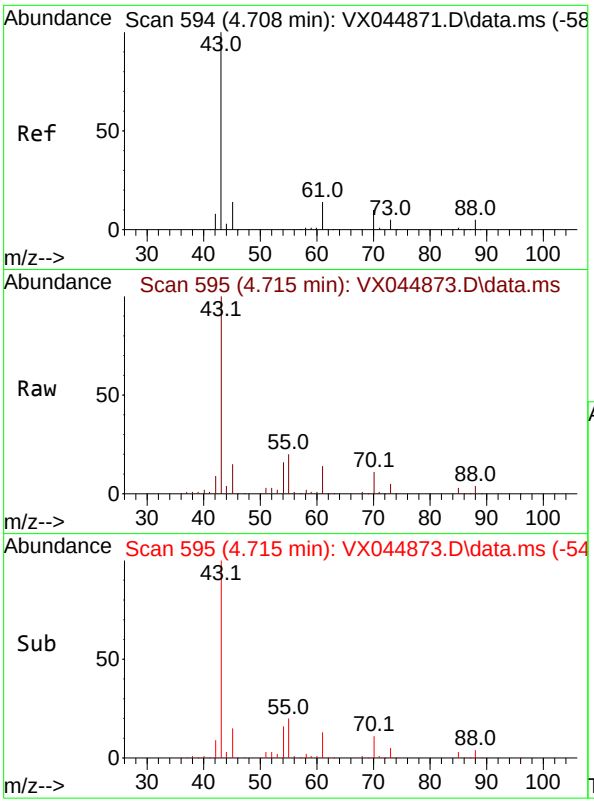


#36
1,1-Dichloropropene
Concen: 148.585 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 324182

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.2	51.6
77	30.9	24.6	37.0

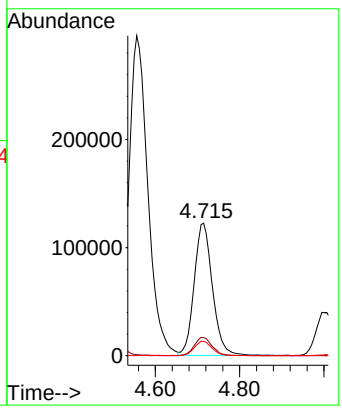




#37
Ethyl Acetate
Concen: 151.956 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 36876

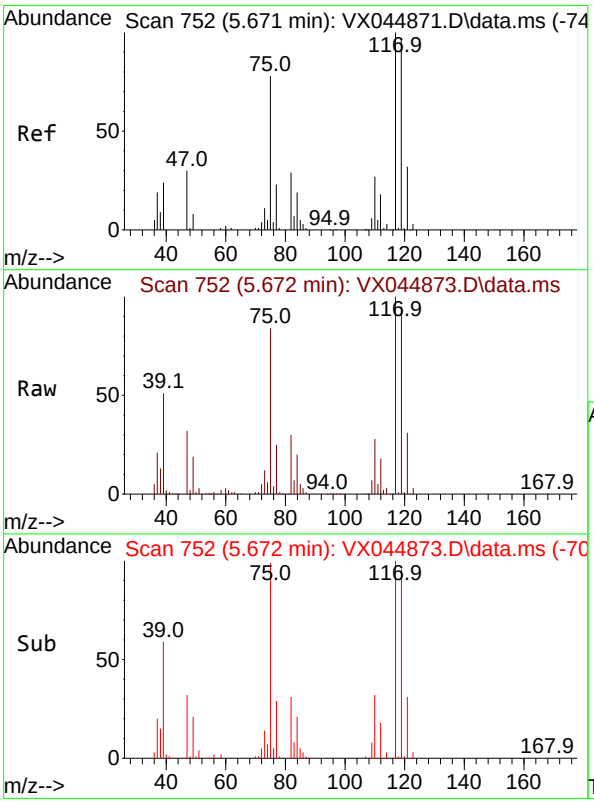
Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.0	16.4
70	10.6	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

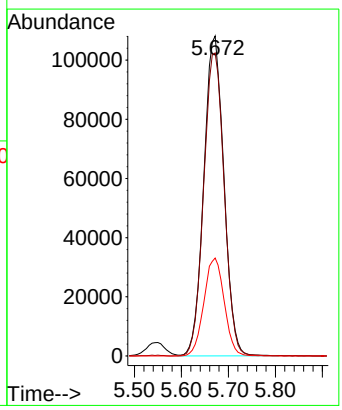
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

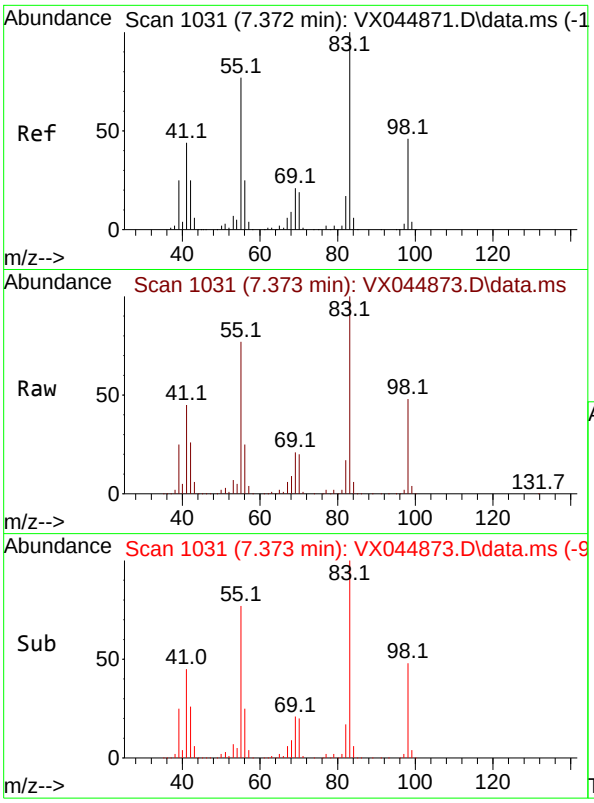


#38
Carbon Tetrachloride
Concen: 149.921 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 320536

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.5	116.3
121	30.6	25.6	38.4

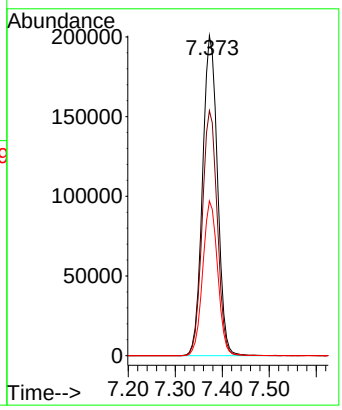




#39
Methylcyclohexane
Concen: 157.130 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 44321

Ion	Ratio	Lower	Upper
83	100		
55	76.5	61.3	91.9
98	48.4	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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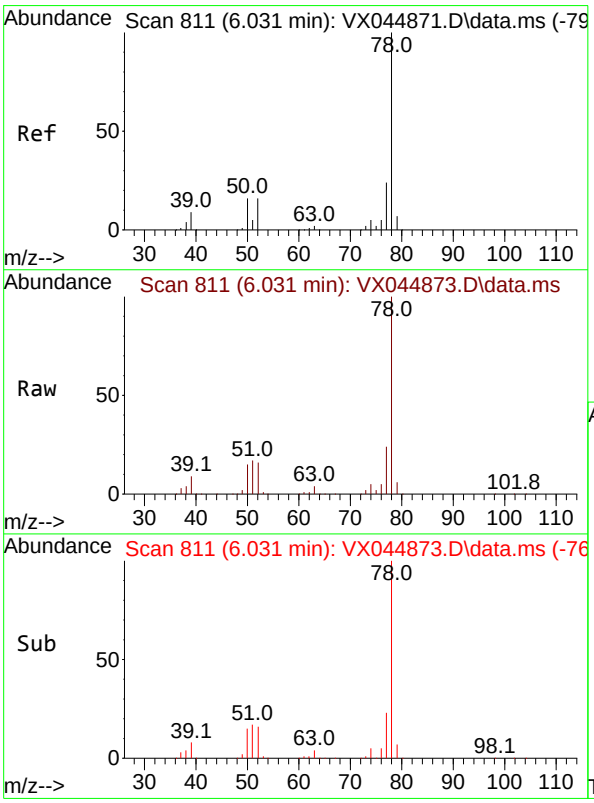
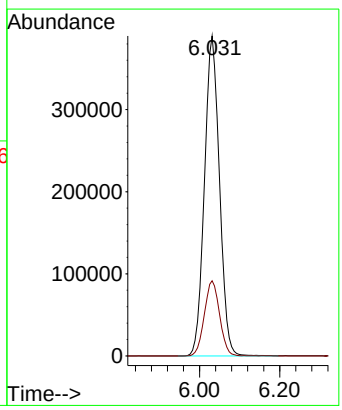
Supervised By :Mahesh Dadoda 02/11/2025

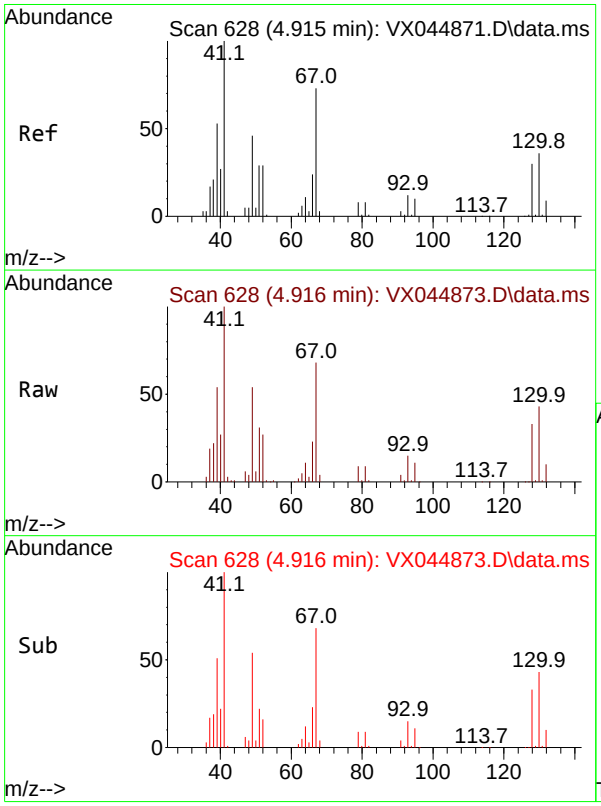


#40
Benzene
Concen: 148.856 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 78 Resp: 1014129

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6

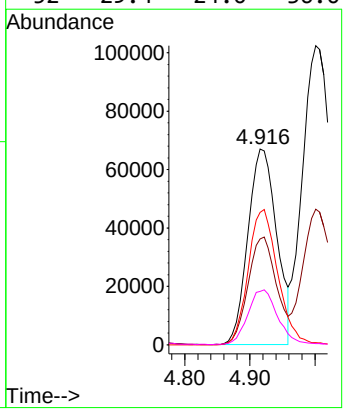




#41
Methacrylonitrile
Concen: 158.707 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 20615

Ion	Ratio	Lower	Upper
41	100		
39	54.2	43.1	64.7
67	71.4	57.0	85.6
52	29.4	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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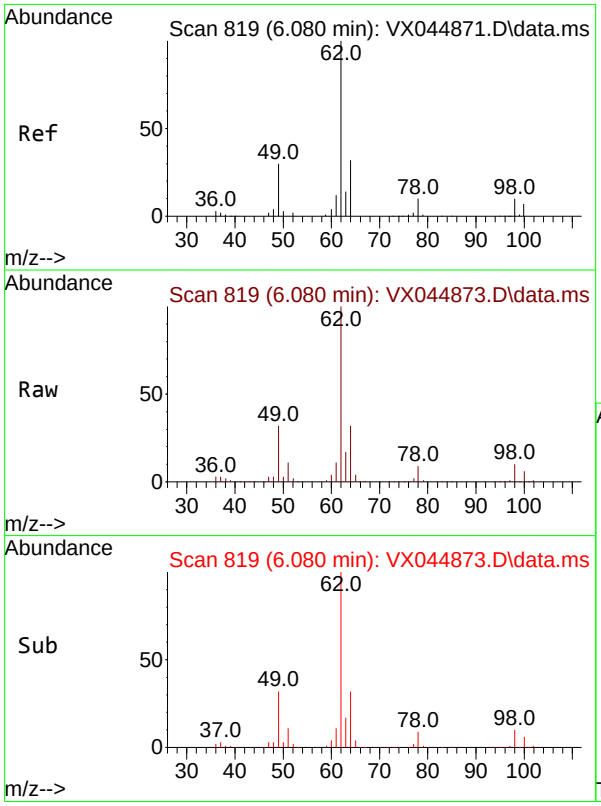
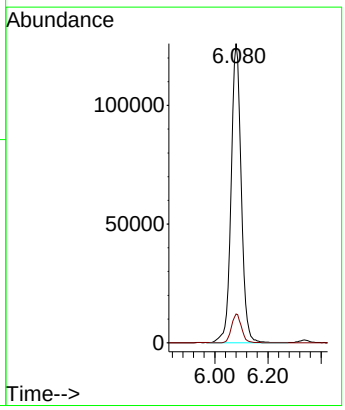
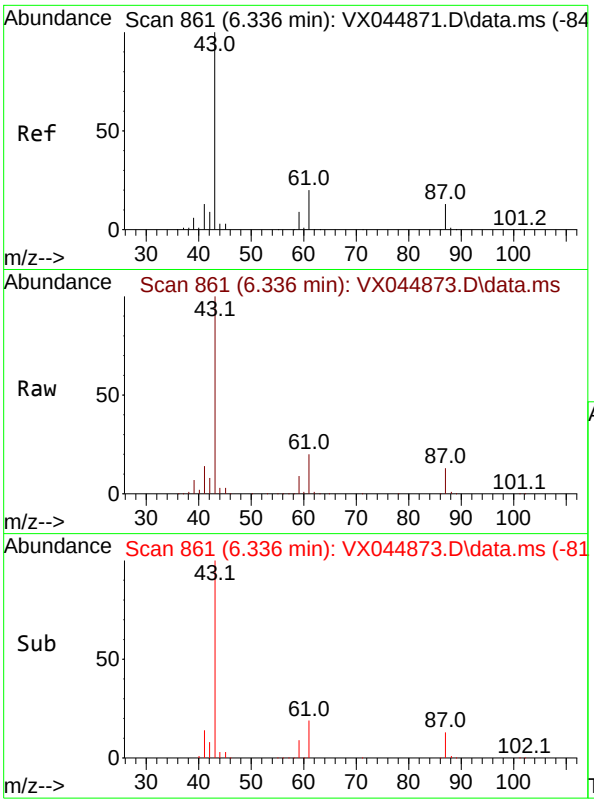


#42
1,2-Dichloroethane
Concen: 154.984 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 336520

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.4

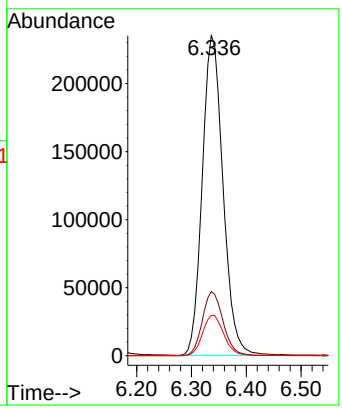




#43
Isopropyl Acetate
Concen: 157.575 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 61751

Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.8	23.8
87	12.9	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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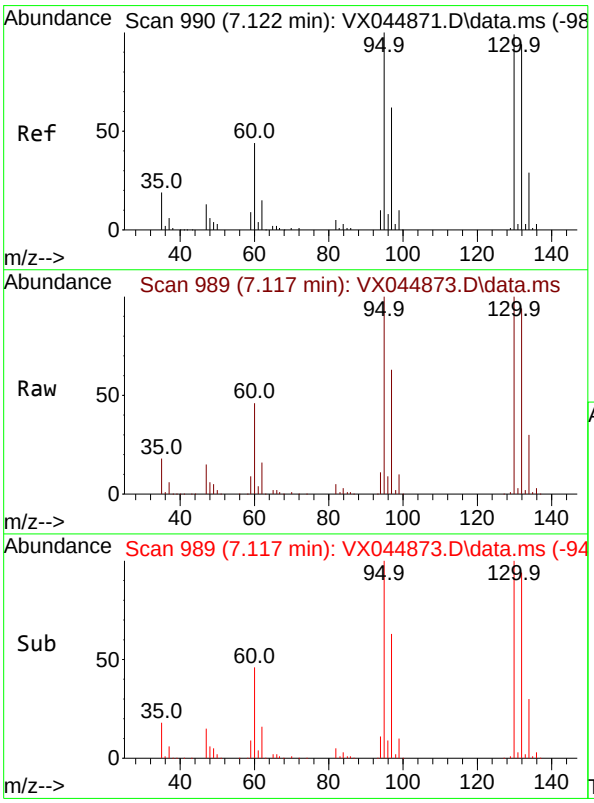
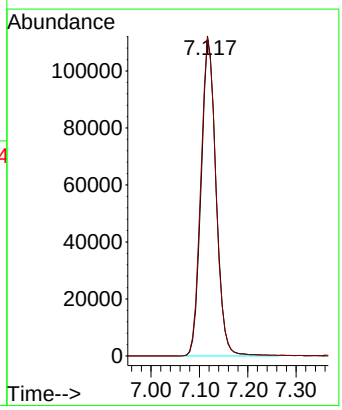
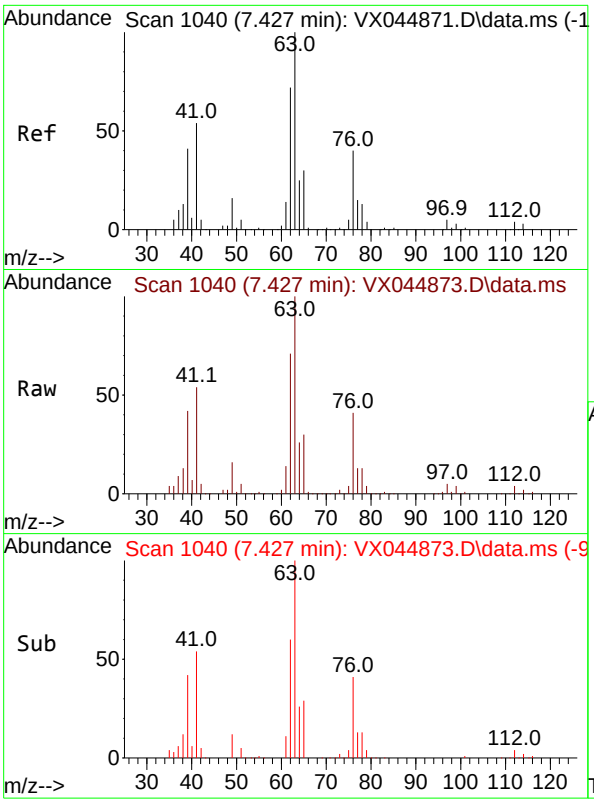


#44
Trichloroethene
Concen: 153.496 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:130 Resp: 239030

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	202.4

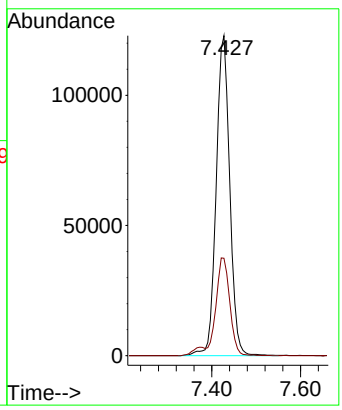




#45
1,2-Dichloropropane
Concen: 153.076 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 25945

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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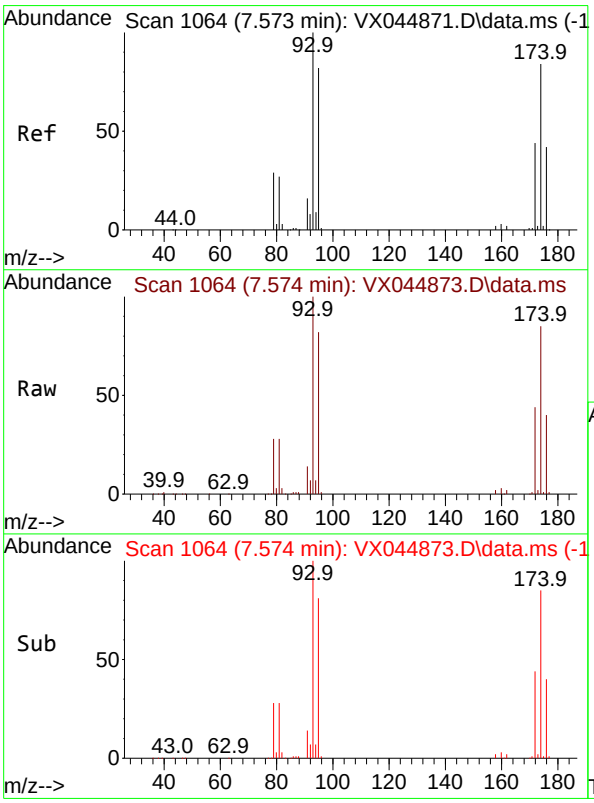
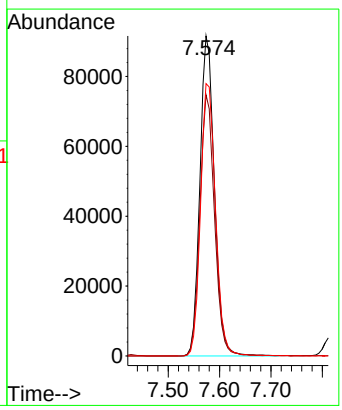
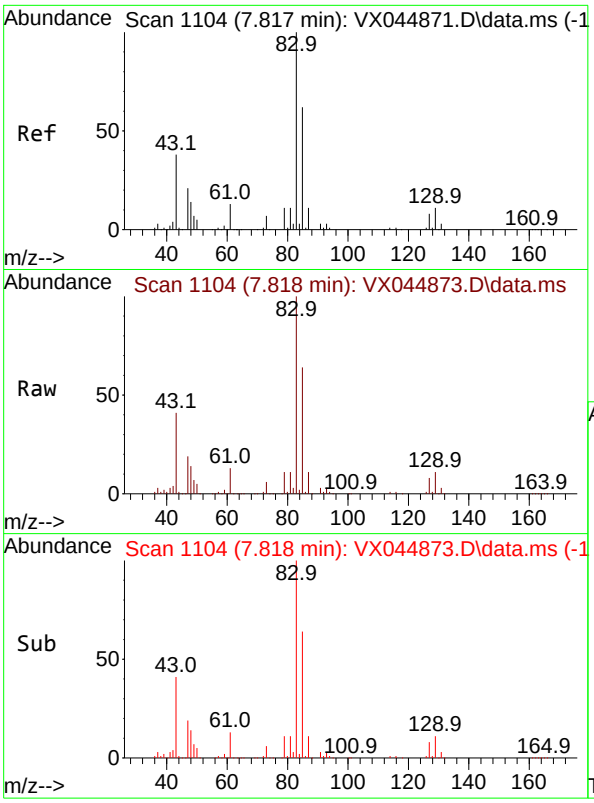


#46
Dibromomethane
Concen: 152.870 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 93 Resp: 179689

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.2	99.4
174	87.9	69.9	104.9

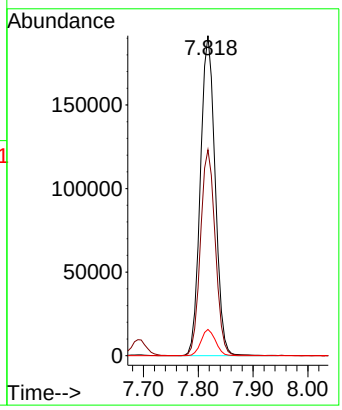




#47
Bromodichloromethane
Concen: 157.128 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 35762

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0
127	8.2	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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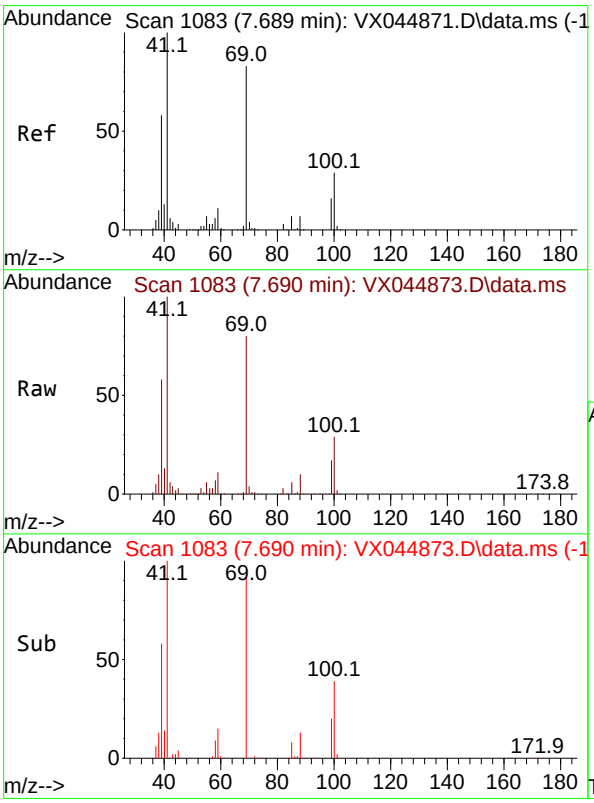
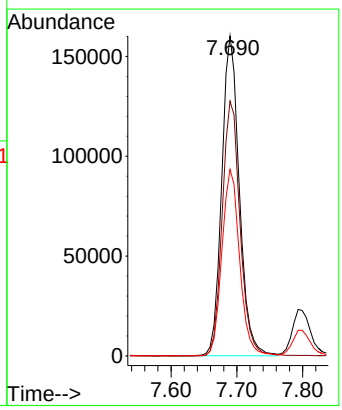
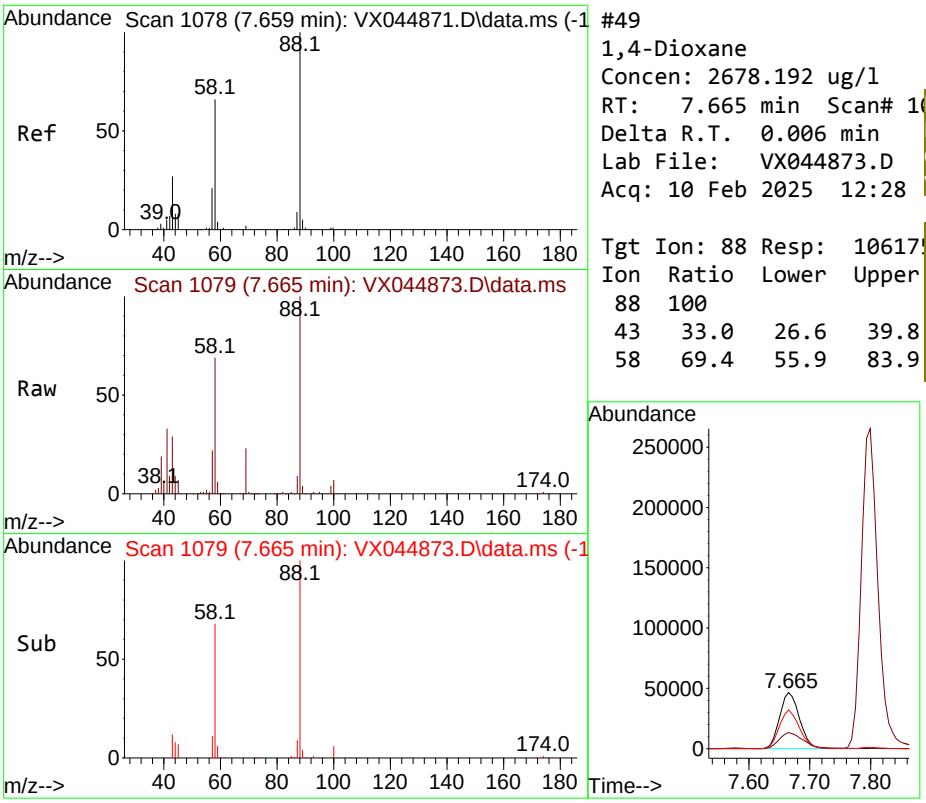


#48
Methyl methacrylate
Concen: 161.236 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 297931

Ion	Ratio	Lower	Upper
41	100		
69	81.4	65.8	98.8
39	58.7	46.4	69.6





#49
1,4-Dioxane
Concen: 2678.192 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 88 Resp: 10617

Ion	Ratio	Lower	Upper
88	100		
43	33.0	26.6	39.8
58	69.4	55.9	83.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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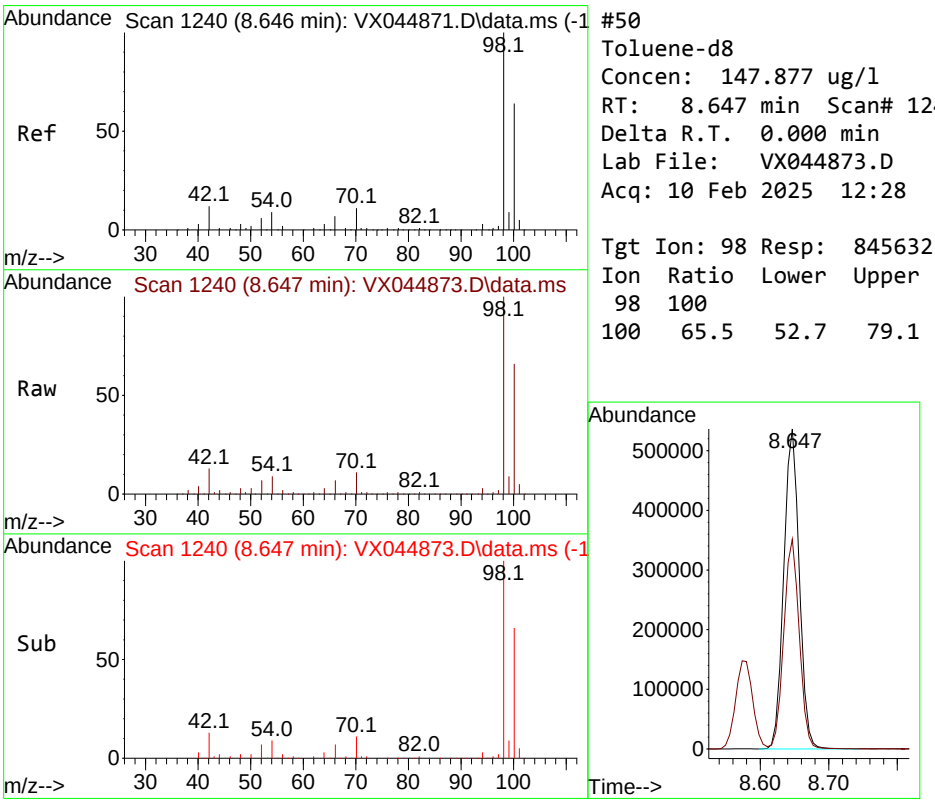
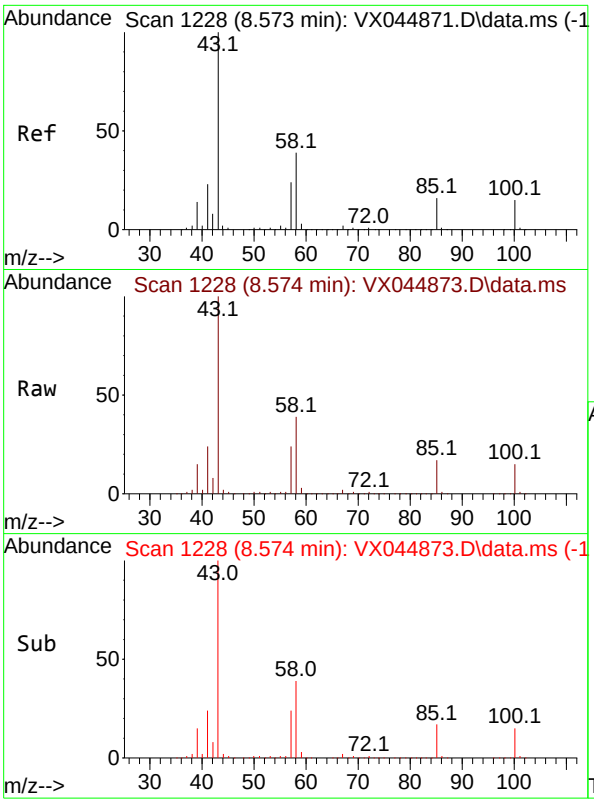
Supervised By :Mahesh Dadoda 02/11/2025



#50
Toluene-d8
Concen: 147.877 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 98 Resp: 845632

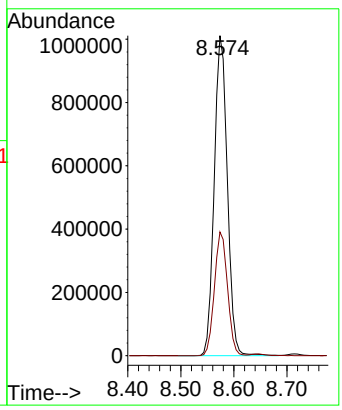
Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.7	79.1



#51
4-Methyl-2-Pentanone
Concen: 728.887 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 173653

Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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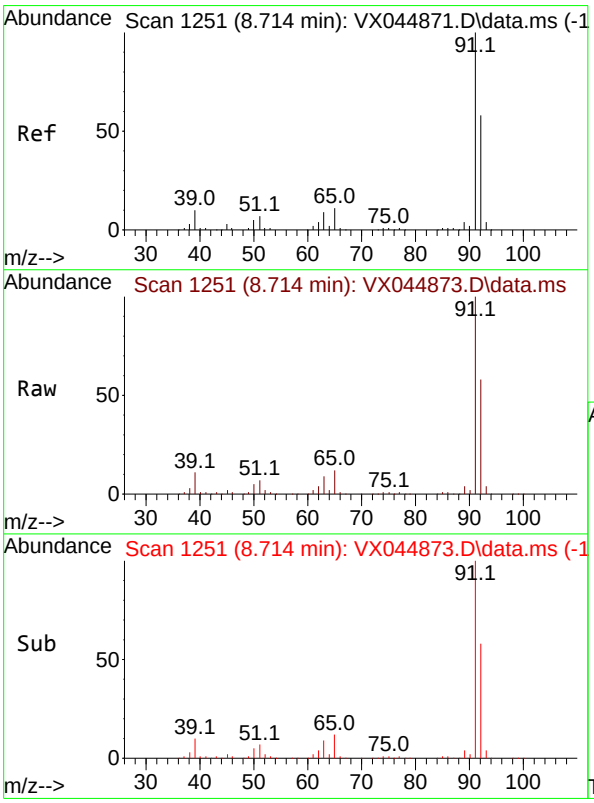
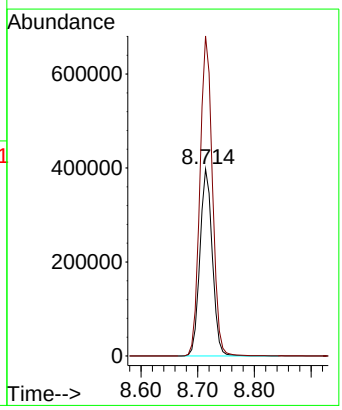
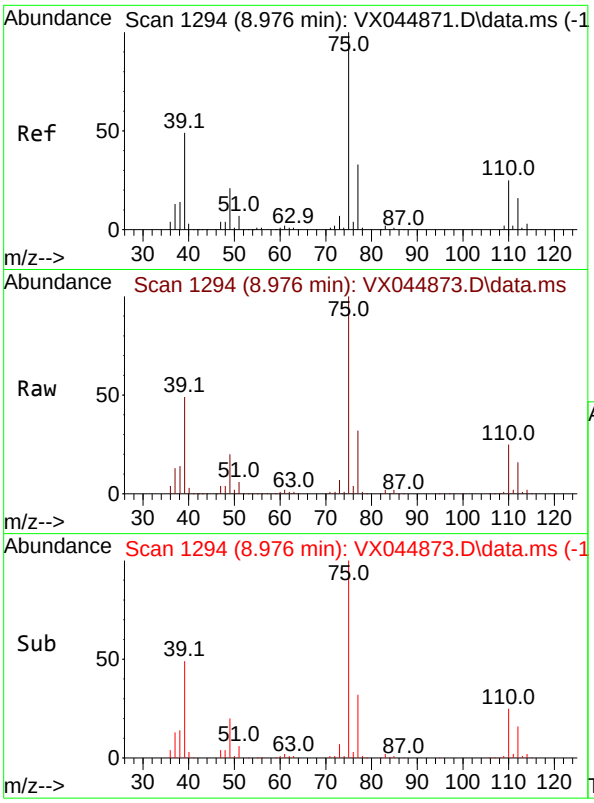


#52
Toluene
Concen: 148.645 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 92 Resp: 603113

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.4	206.2

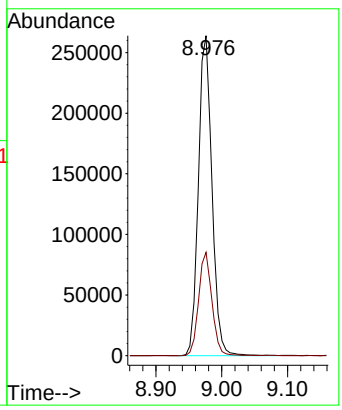




#53
t-1,3-Dichloropropene
Concen: 164.398 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 37863

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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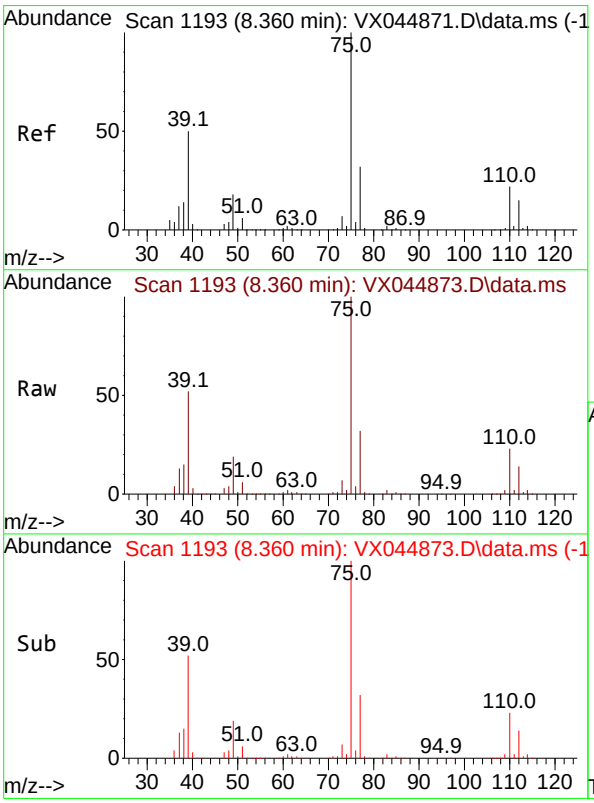
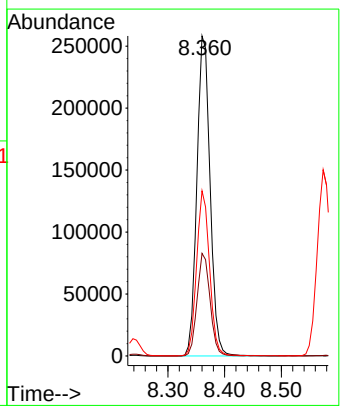
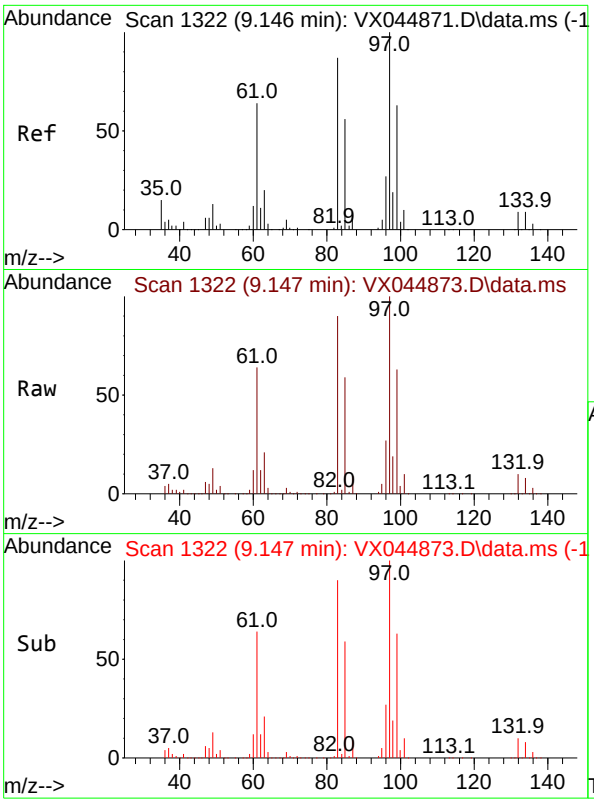


#54
cis-1,3-Dichloropropene
Concen: 162.667 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 417724

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.3	37.9
39	51.5	40.0	60.0

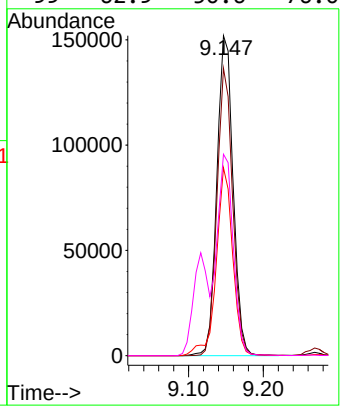




#55
1,1,2-Trichloroethane
Concen: 147.172 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 97 Resp: 22954

Ion	Ratio	Lower	Upper
97	100		
83	89.8	69.8	104.6
85	58.7	44.8	67.2
99	62.9	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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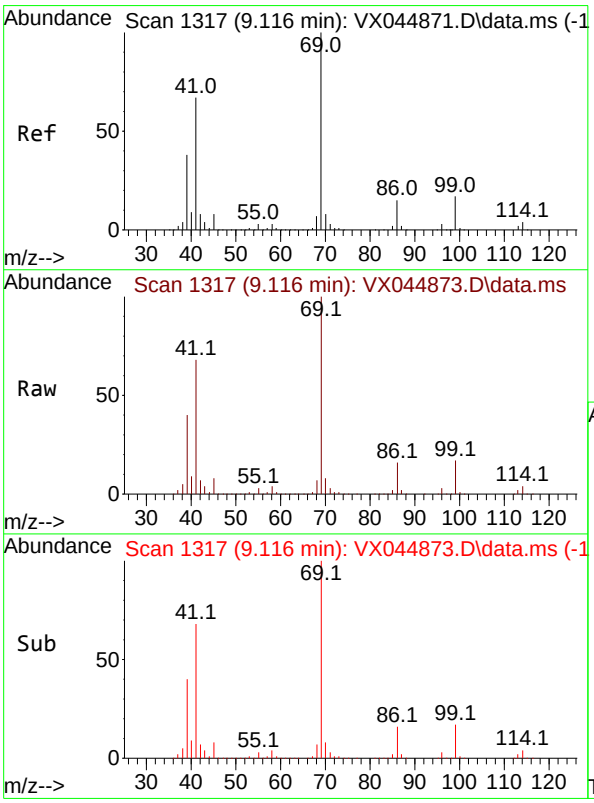
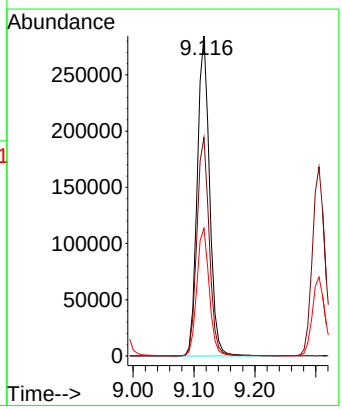
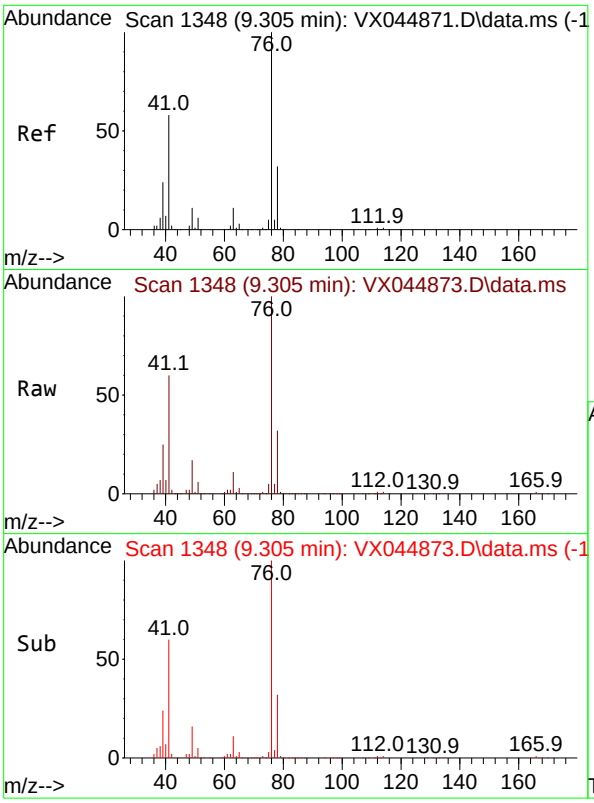


#56
Ethyl methacrylate
Concen: 158.205 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 69 Resp: 398535

Ion	Ratio	Lower	Upper
69	100		
41	68.7	55.2	82.8
39	40.0	30.8	46.2

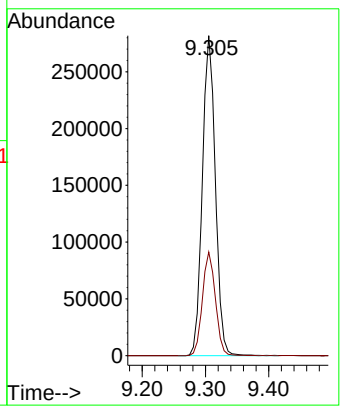




#57
1,3-Dichloropropane
Concen: 147.915 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 76 Resp: 40366

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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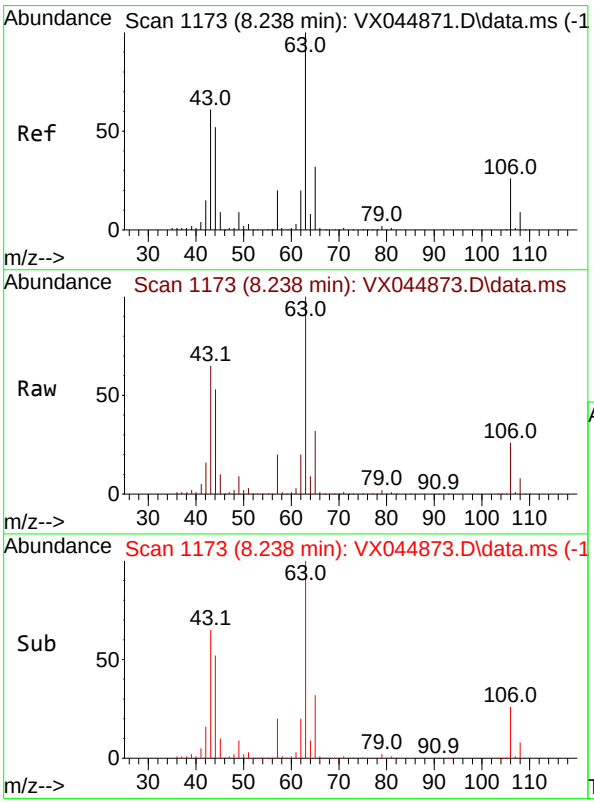
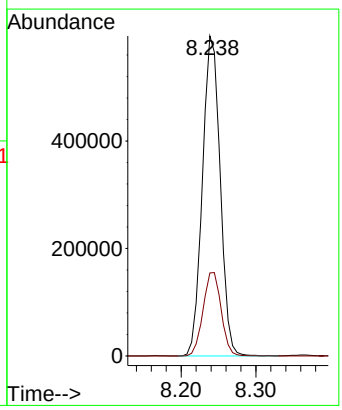
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

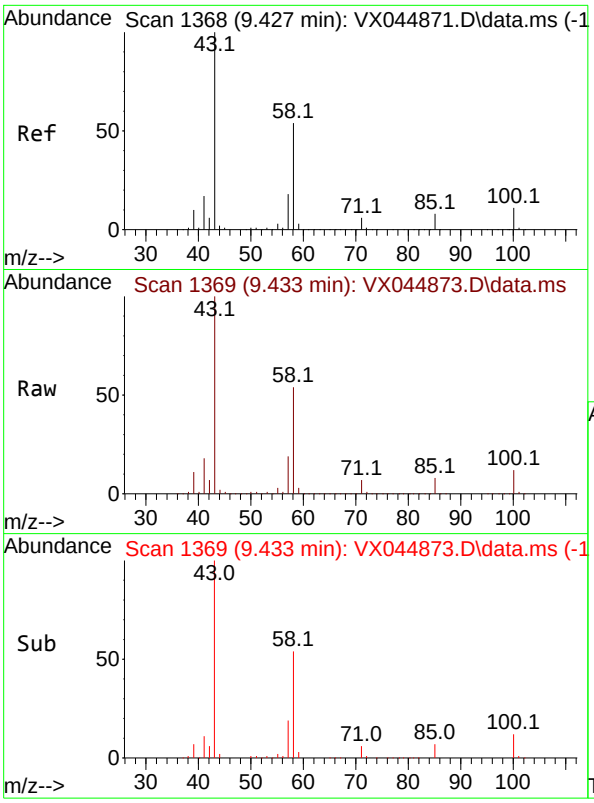


#58
2-Chloroethyl Vinyl ether
Concen: 794.010 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 982120

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9

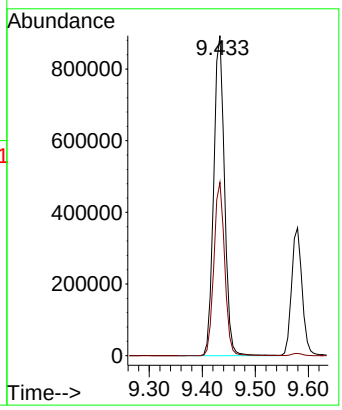




#59
2-Hexanone
Concen: 736.622 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 126447

Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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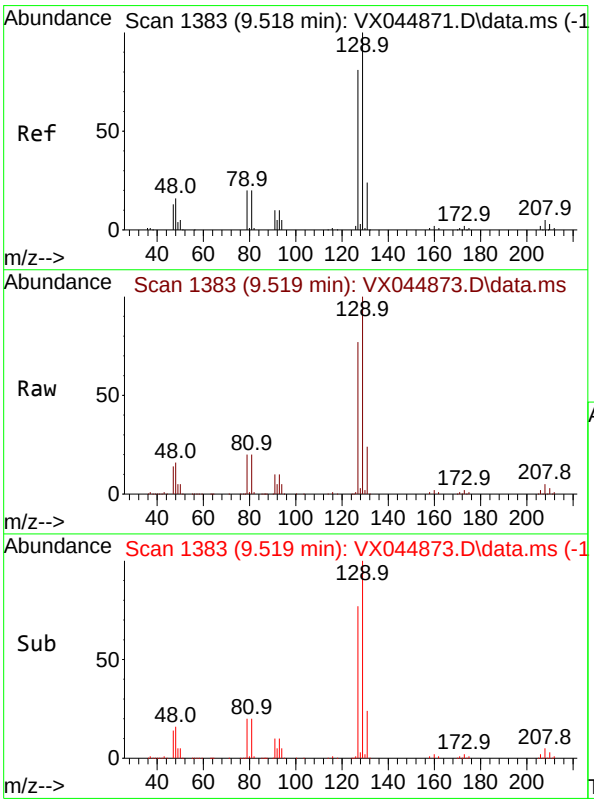
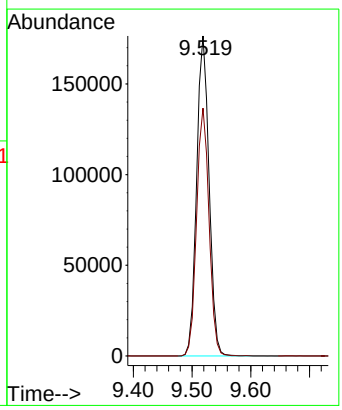
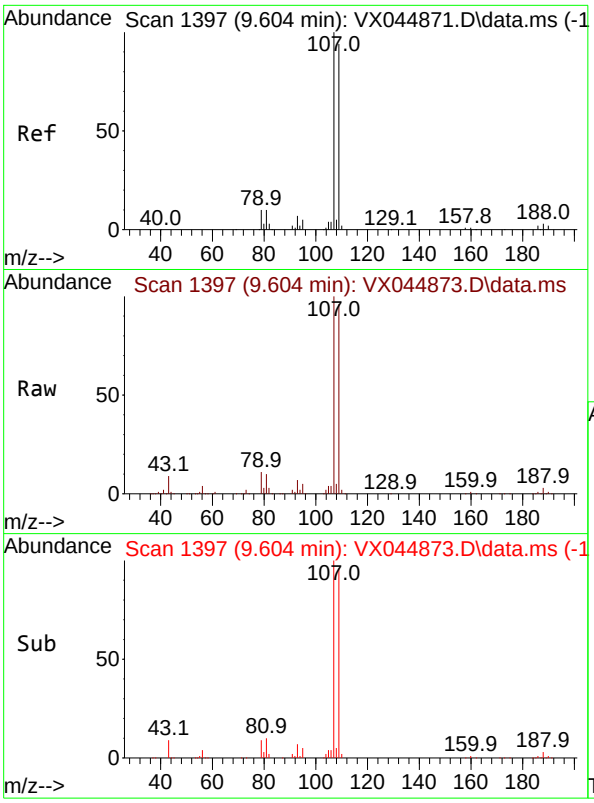


#60
Dibromochloromethane
Concen: 154.862 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:129 Resp: 258320

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.1	117.3

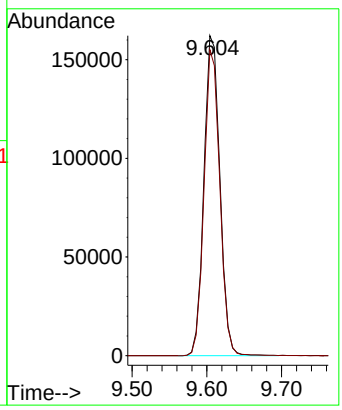




#61
1,2-Dibromoethane
Concen: 152.157 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:107 Resp: 24053

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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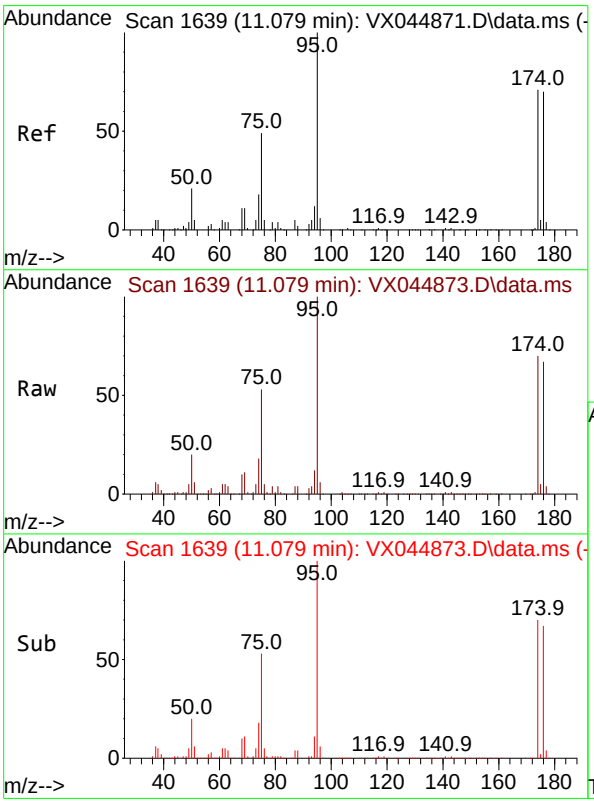
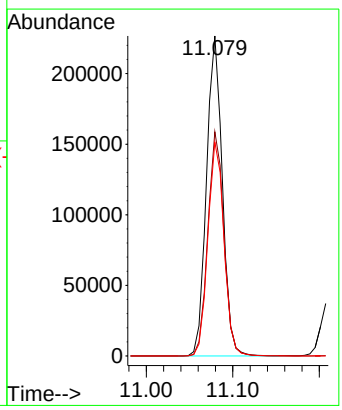
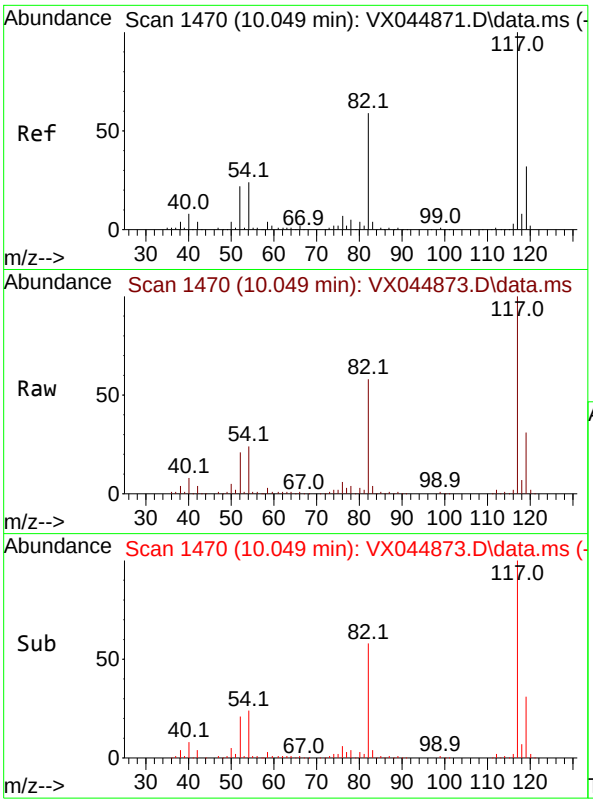


#62
4-Bromofluorobenzene
Concen: 149.124 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 95 Resp: 287486

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	142.6
176	68.0	0.0	141.6

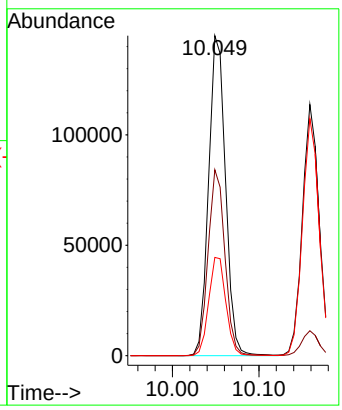




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 19666

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.5	71.3
119	30.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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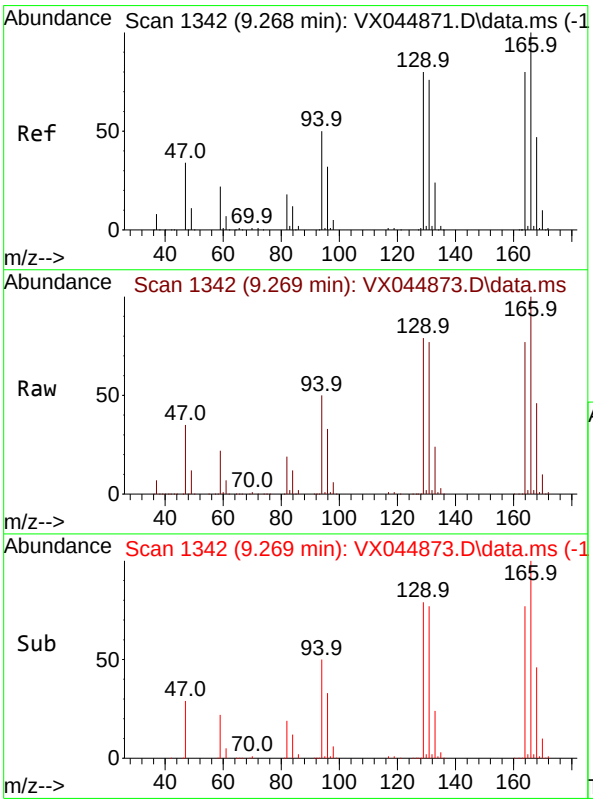
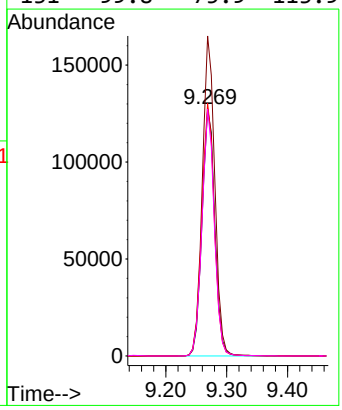
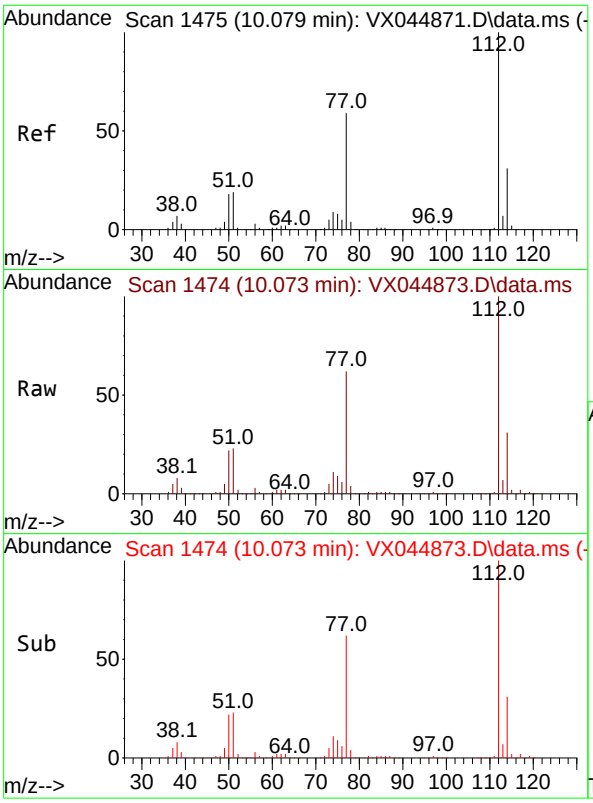


#64
Tetrachloroethene
Concen: 149.155 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:164 Resp: 184990

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.4	150.6
129	102.3	79.9	119.9
131	99.8	75.9	113.9





#65
Chlorobenzene
Concen: 150.224 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:112 Resp: 63455

Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.0	37.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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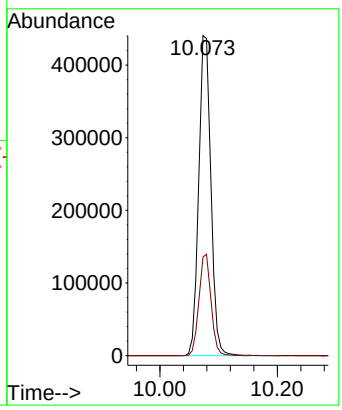
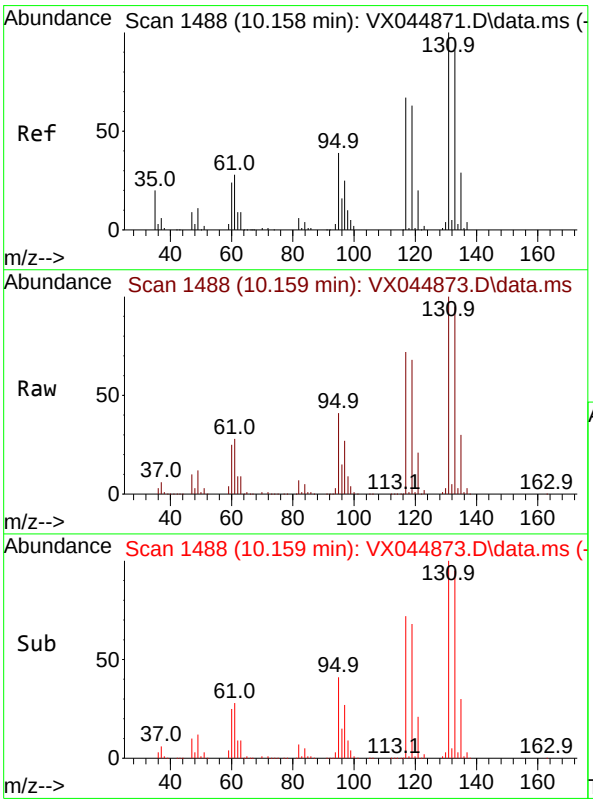
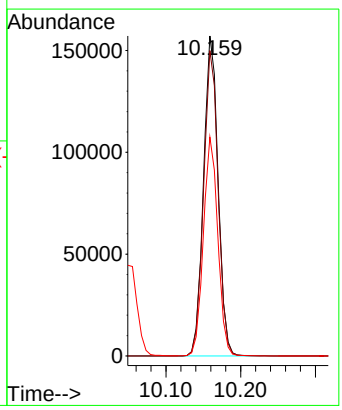


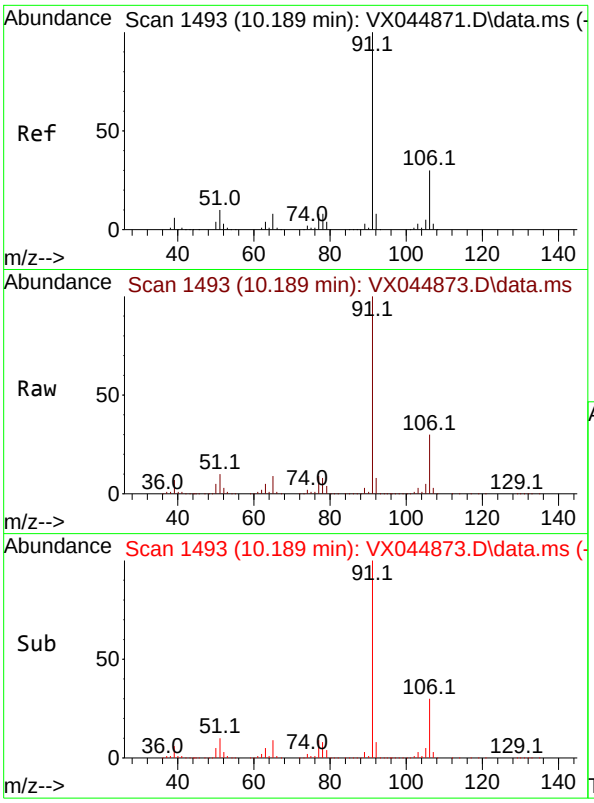


#66
1,1,1,2-Tetrachloroethane
Concen: 156.255 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:131 Resp: 212441

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.1	141.3
119	67.9	33.6	100.6





#67
Ethyl Benzene
Concen: 152.647 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 113784

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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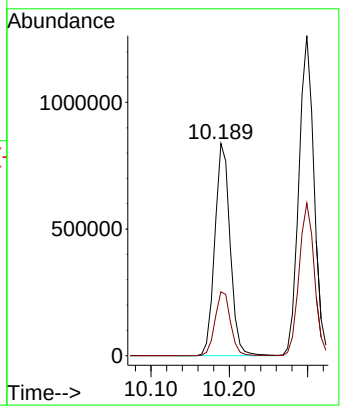
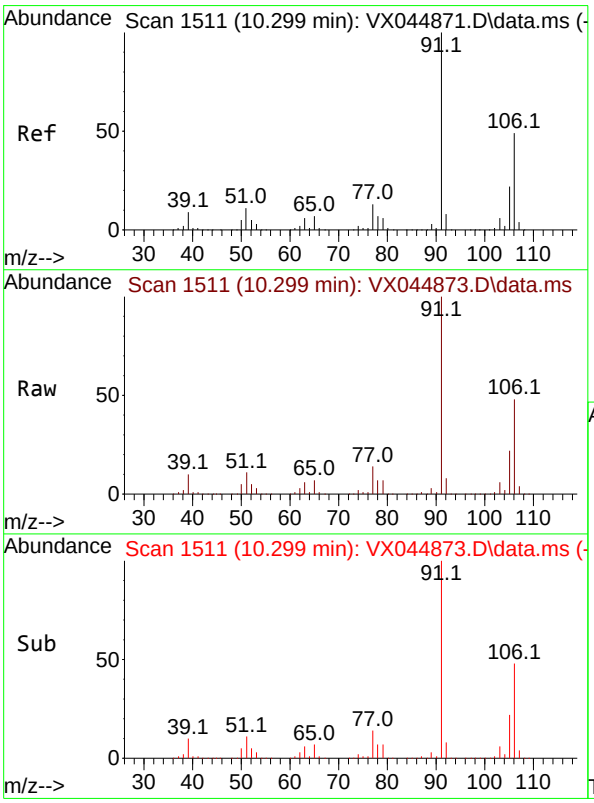
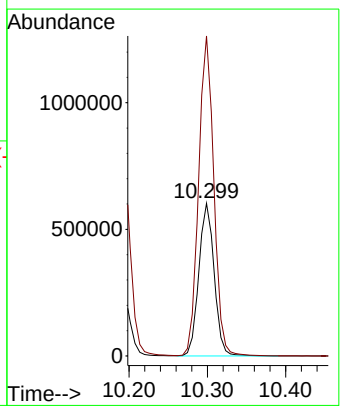


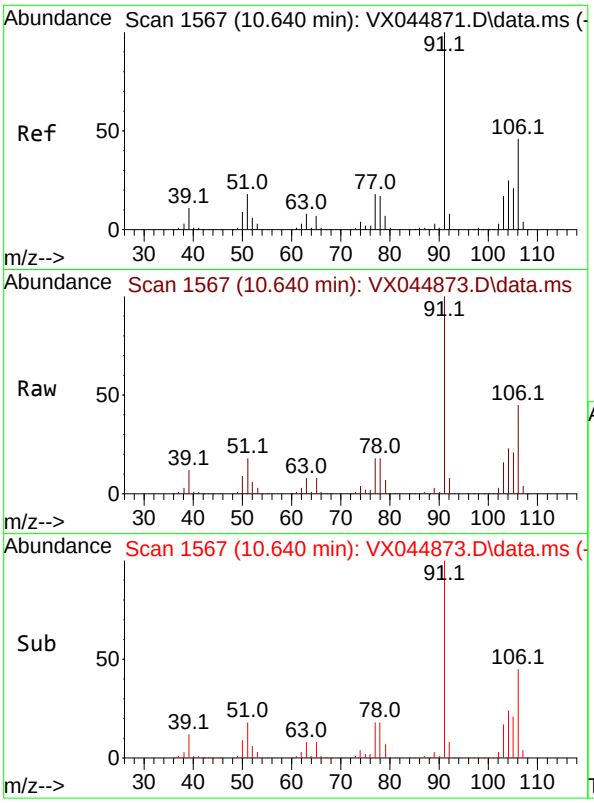


#68
m/p-Xylenes
Concen: 297.841 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:106 Resp: 818971

Ion	Ratio	Lower	Upper
106	100		
91	208.6	164.3	246.5

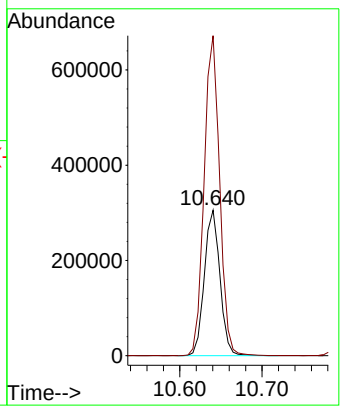




#69
o-Xylene
Concen: 145.674 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:106 Resp: 40192

Ion	Ratio	Lower	Upper
106	100		
91	218.9	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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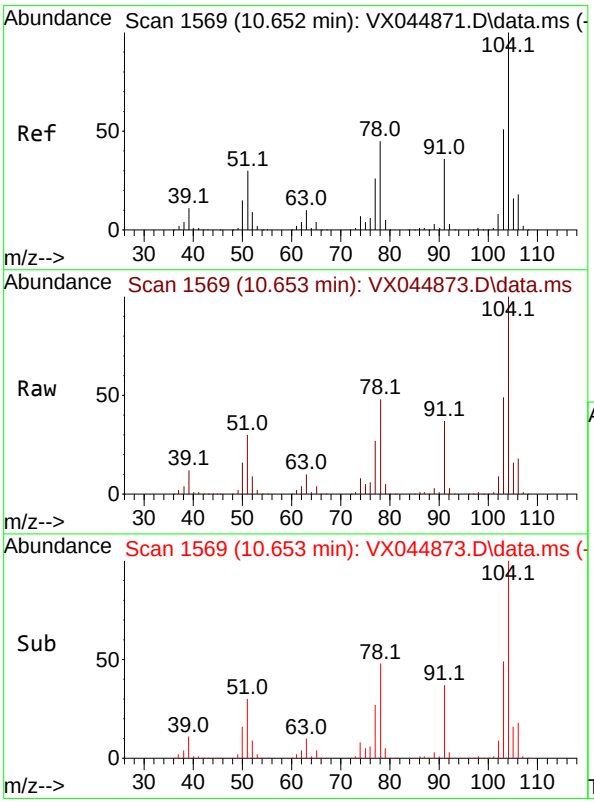
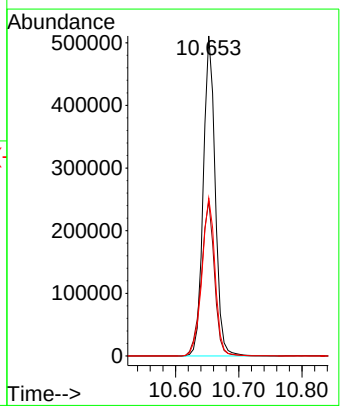
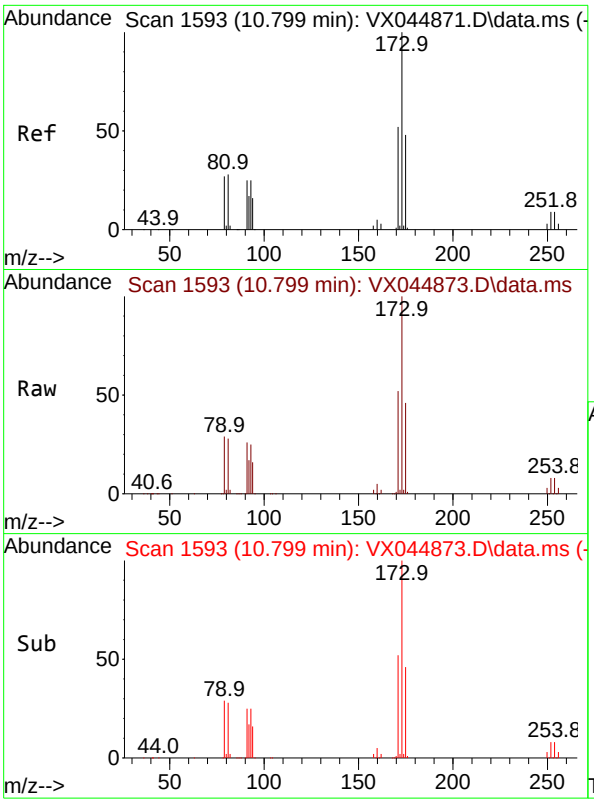


#70
Styrene
Concen: 151.140 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:104 Resp: 671843

Ion	Ratio	Lower	Upper
104	100		
78	53.0	40.5	60.7
103	54.5	43.6	65.4





#71
Bromoform
Concen: 167.033 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 16948

Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	72.8
254	0.1	0.0	0.0#

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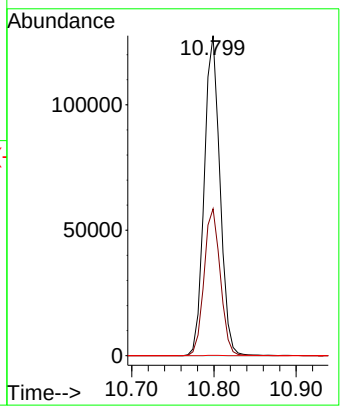
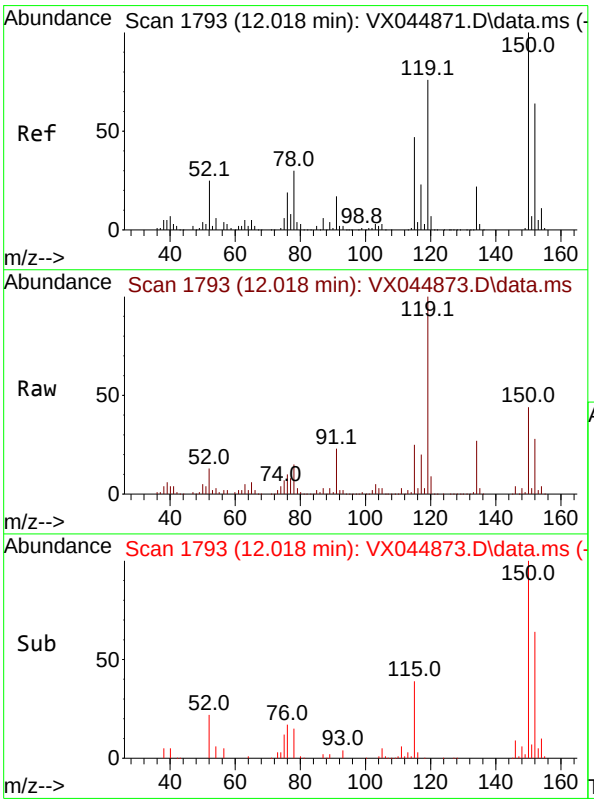
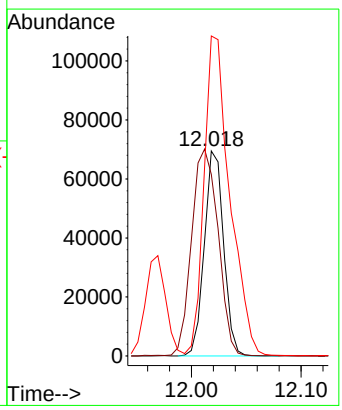


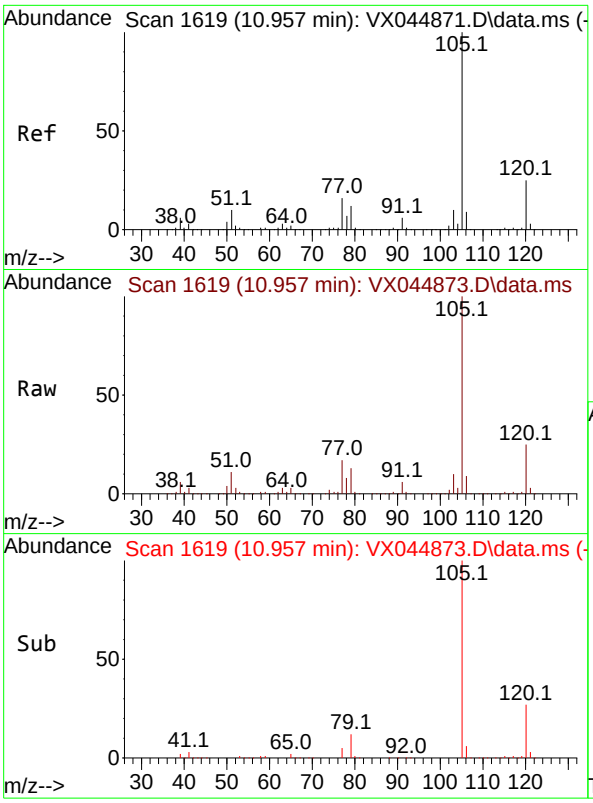


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:152 Resp: 84836

Ion	Ratio	Lower	Upper
152	100		
115	139.2	43.4	130.1#
150	209.6	0.0	350.4

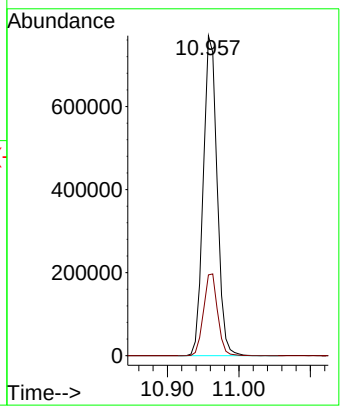




#73
Isopropylbenzene
Concen: 151.869 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 103740

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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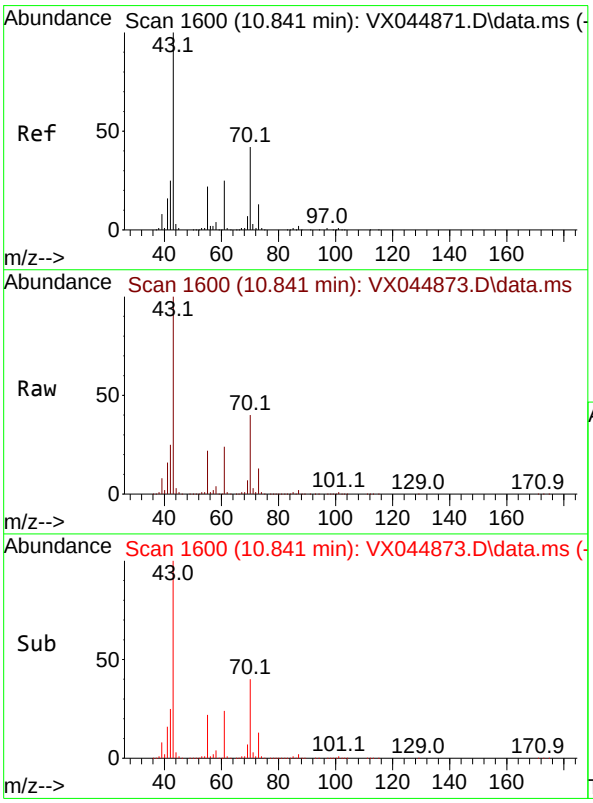
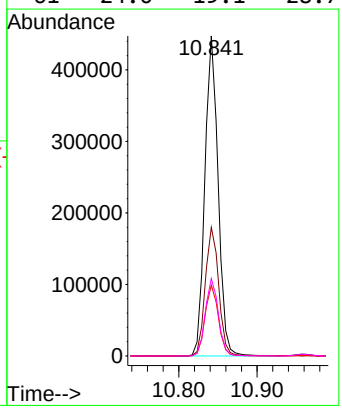
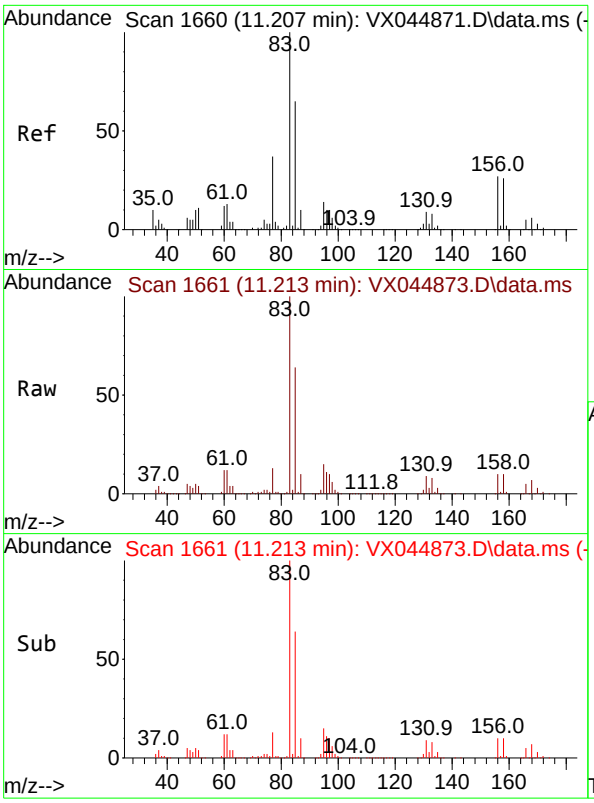


#74
N-amyl acetate
Concen: 168.861 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 521962

Ion	Ratio	Lower	Upper
43	100		
70	41.0	33.7	50.5
55	22.3	18.6	27.8
61	24.0	19.1	28.7

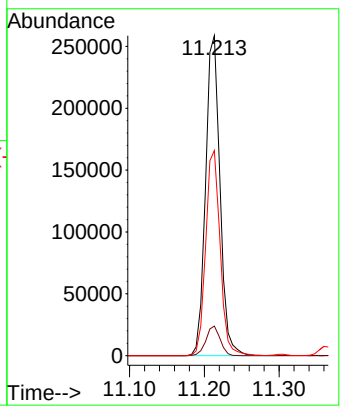




#75
1,1,2,2-Tetrachloroethane
Concen: 147.409 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 34601

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	64.3	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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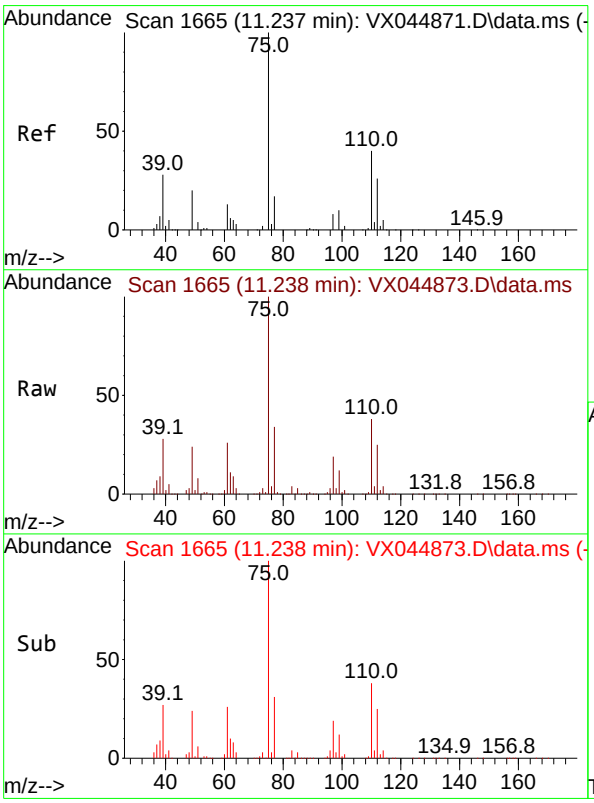
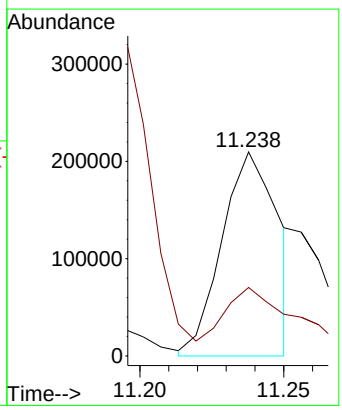
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

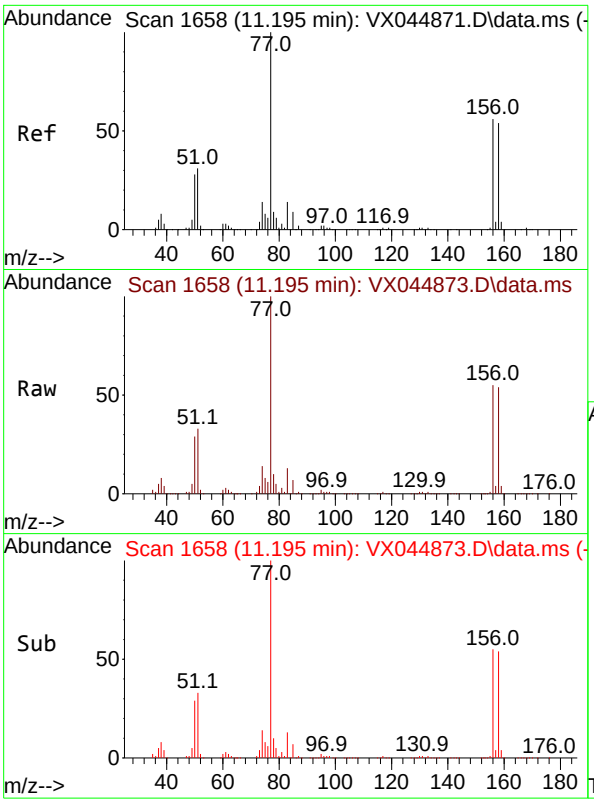


#76
1,2,3-Trichloropropane
Concen: 151.485 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 284934

Ion	Ratio	Lower	Upper
75	100		
77	44.3	21.9	65.7

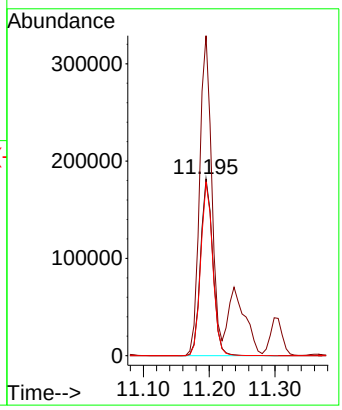




#77
Bromobenzene
Concen: 151.715 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:156 Resp: 23495

Ion	Ratio	Lower	Upper
156	100		
77	179.2	88.4	265.3
158	97.1	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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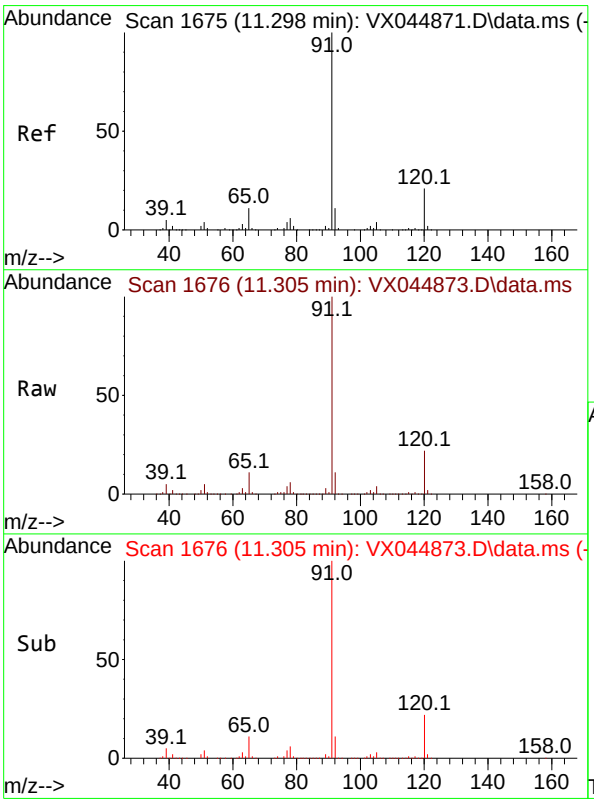
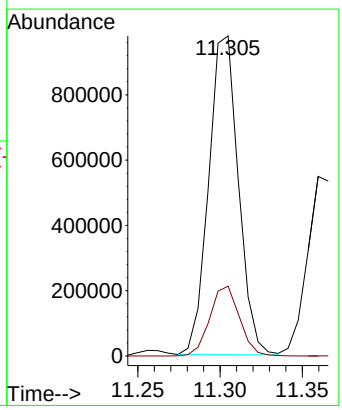
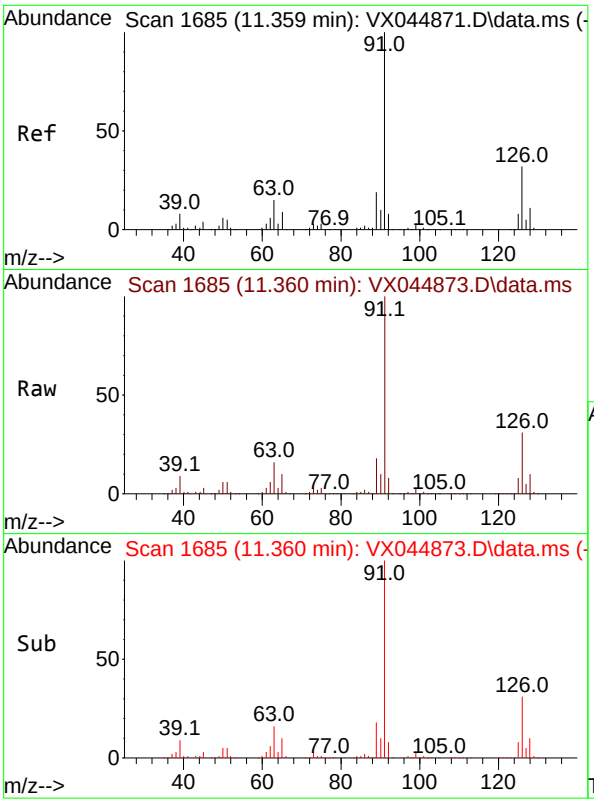


#78
n-propylbenzene
Concen: 156.140 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 1231079

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.1	33.3





#79
2-Chlorotoluene
Concen: 148.123 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 71776

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.2	48.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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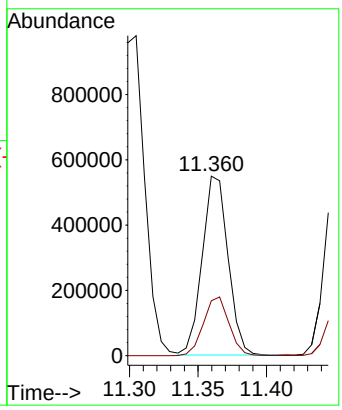
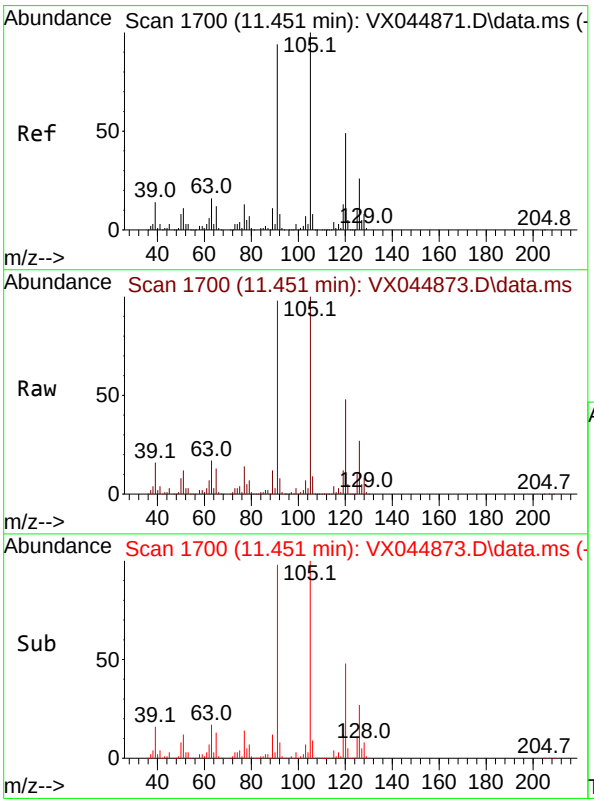
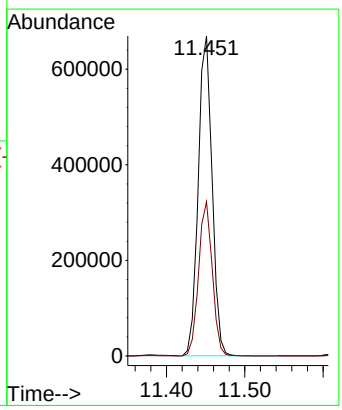


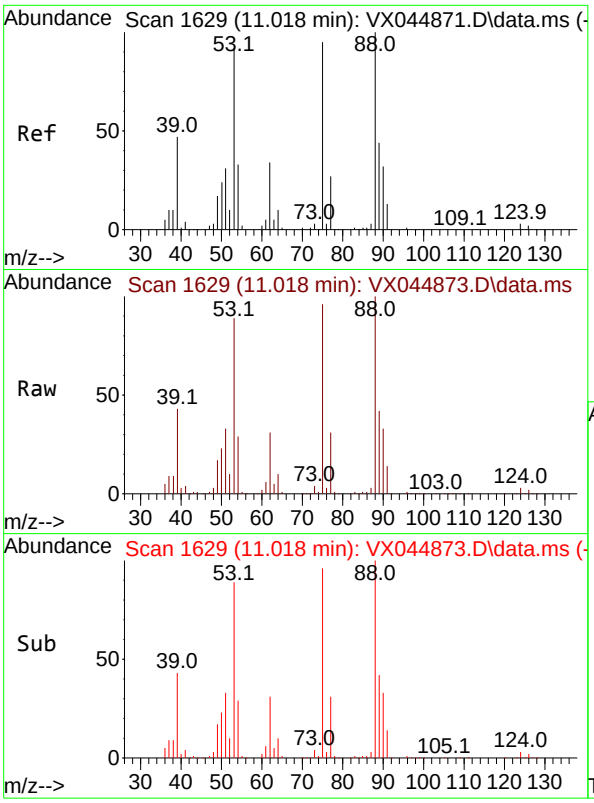


#80
1,3,5-Trimethylbenzene
Concen: 148.415 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 822707

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.0	72.0

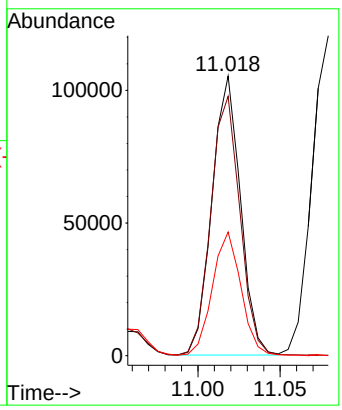




#81
trans-1,4-Dichloro-2-butene
Concen: 173.221 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 12666

Ion	Ratio	Lower	Upper
75	100		
53	95.2	78.0	117.0
89	44.7	36.6	54.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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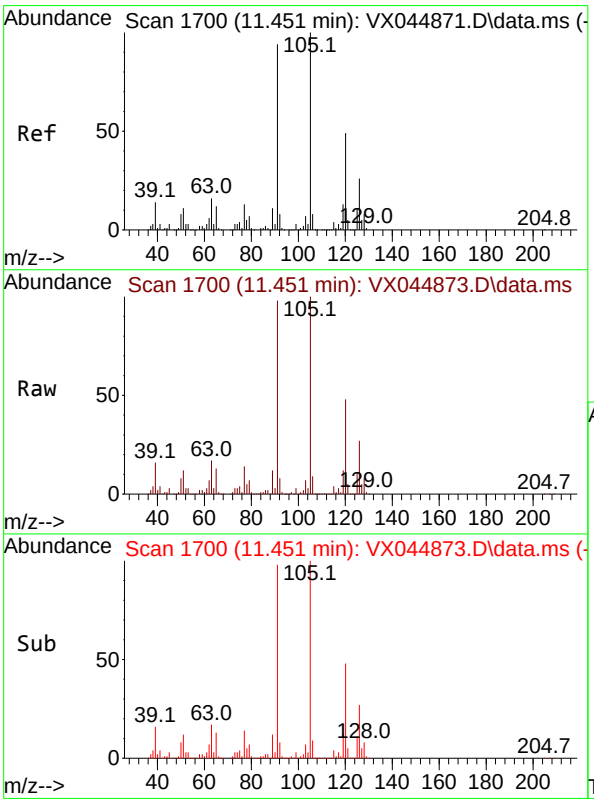
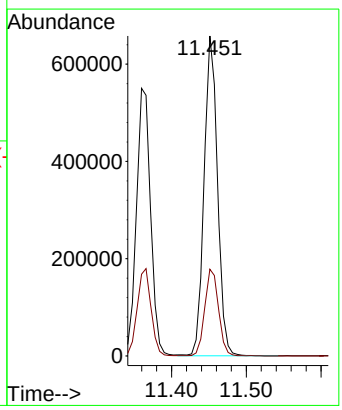
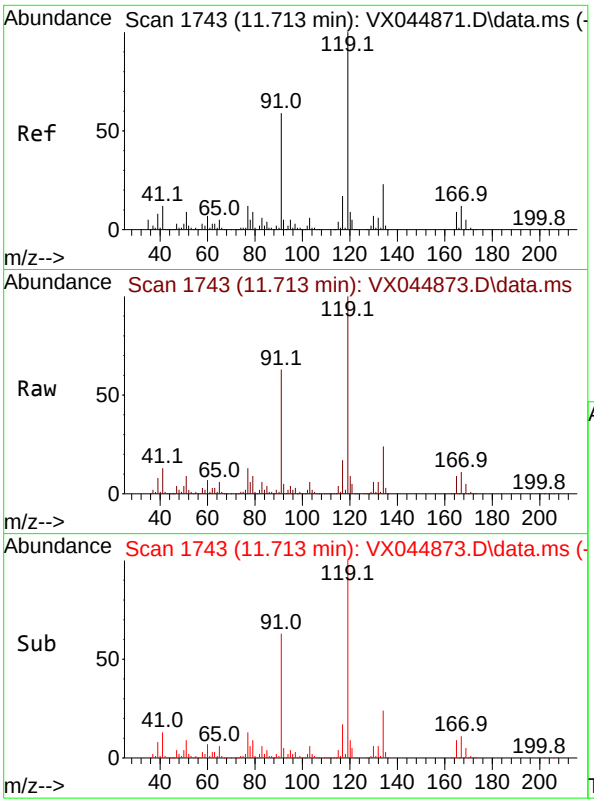


#82
4-Chlorotoluene
Concen: 152.602 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 818099

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.2	42.6

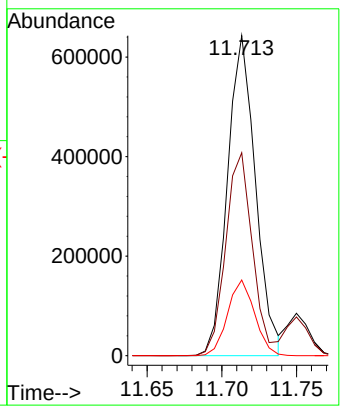




#83
tert-Butylbenzene
Concen: 149.610 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:119 Resp: 83897

Ion	Ratio	Lower	Upper
119	100		
91	61.1	29.1	87.4
134	22.9	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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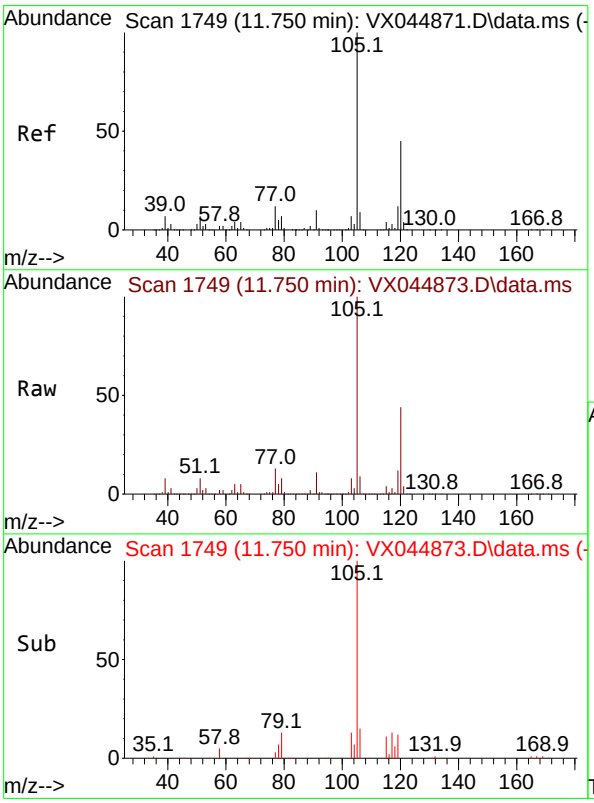
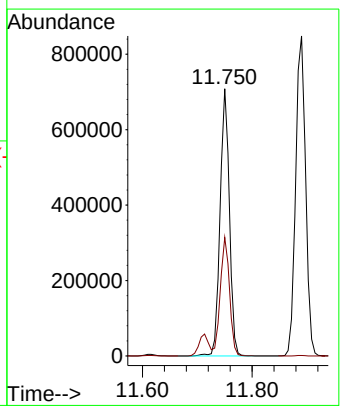
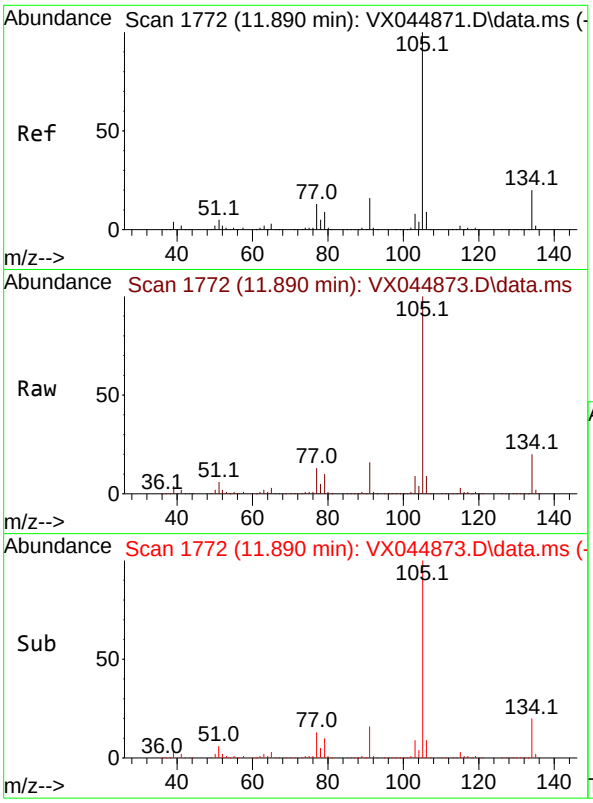


#84
1,2,4-Trimethylbenzene
Concen: 153.274 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 838584

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.0

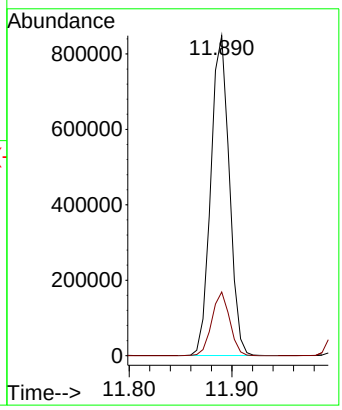




#85
sec-Butylbenzene
Concen: 152.806 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 106110

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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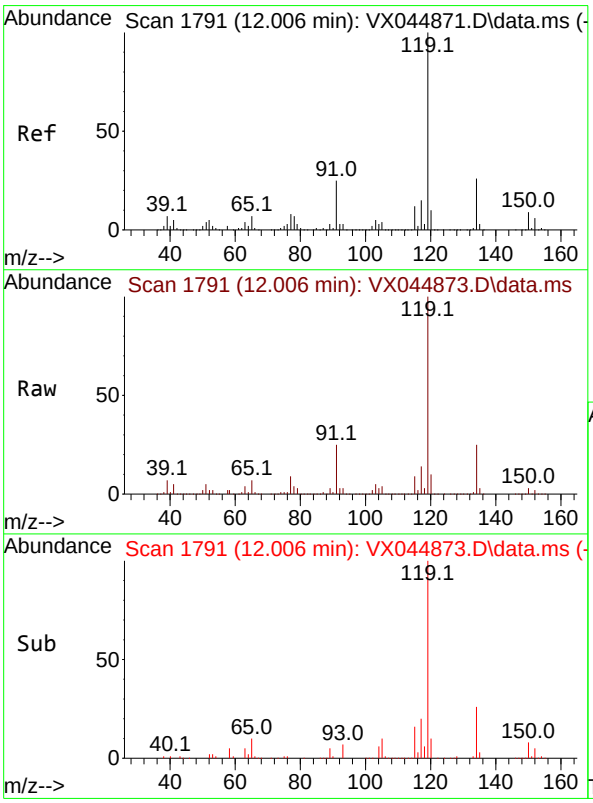
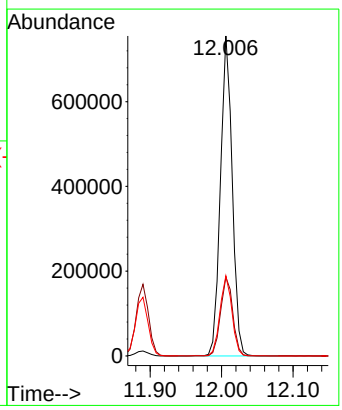
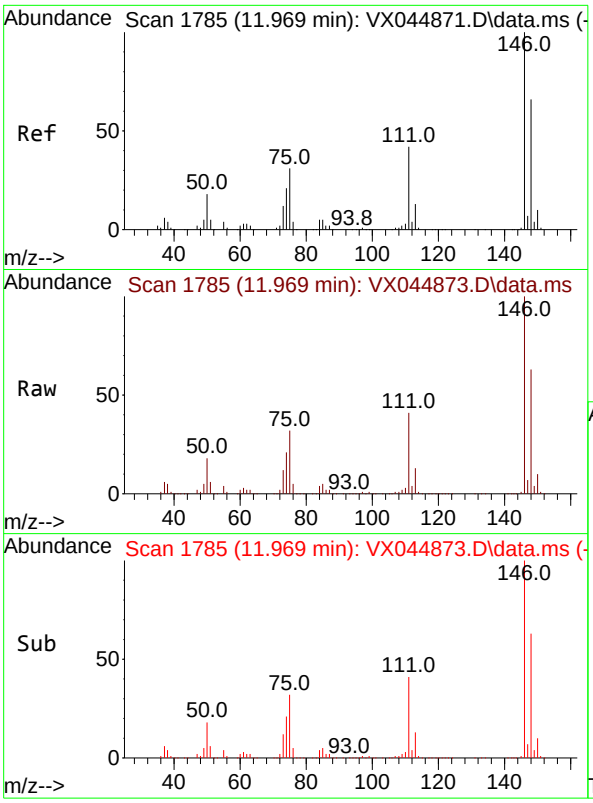


#86
p-Isopropyltoluene
Concen: 154.987 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:119 Resp: 865491

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	38.9
91	25.3	12.1	36.3

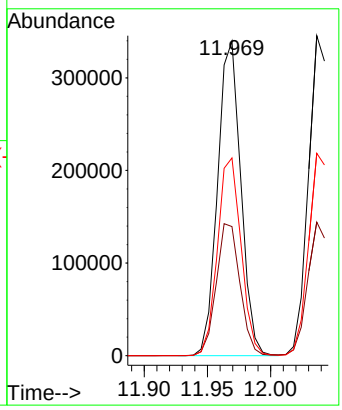




#87
1,3-Dichlorobenzene
Concen: 152.175 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:146 Resp: 43338

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.2	63.6
148	63.9	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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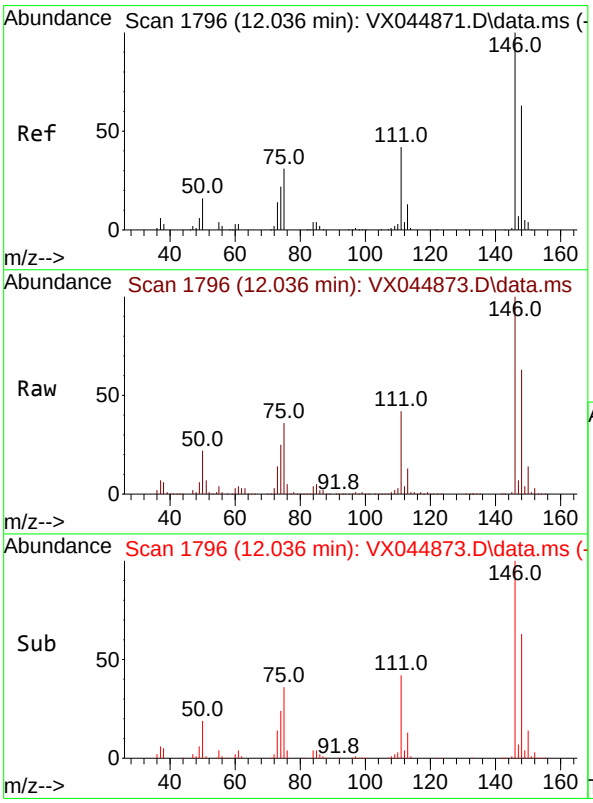
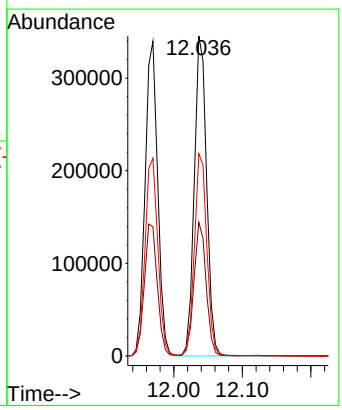
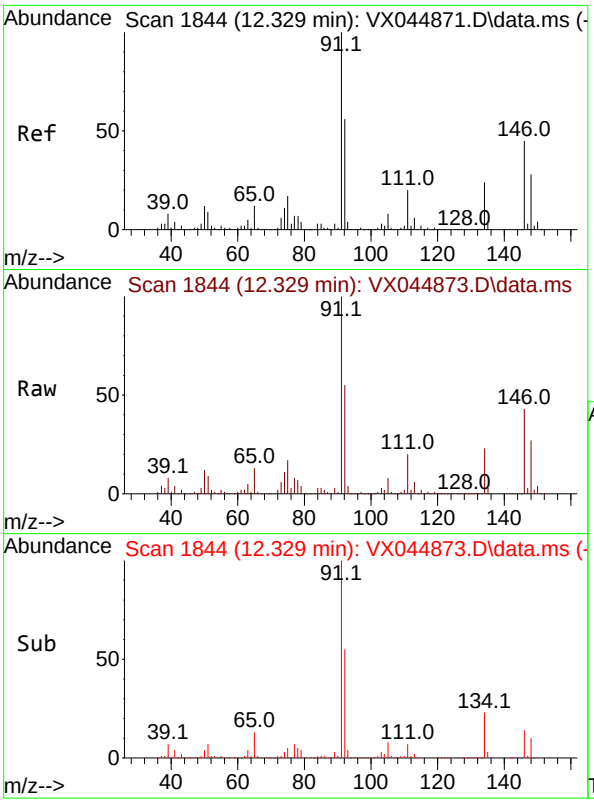


#88
1,4-Dichlorobenzene
Concen: 150.362 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:146 Resp: 432987

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.3
148	63.7	32.0	96.0

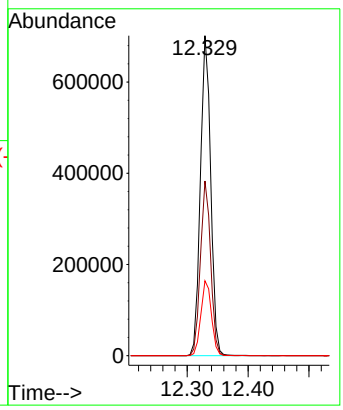




#89
n-Butylbenzene
Concen: 167.469 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 82735

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.0	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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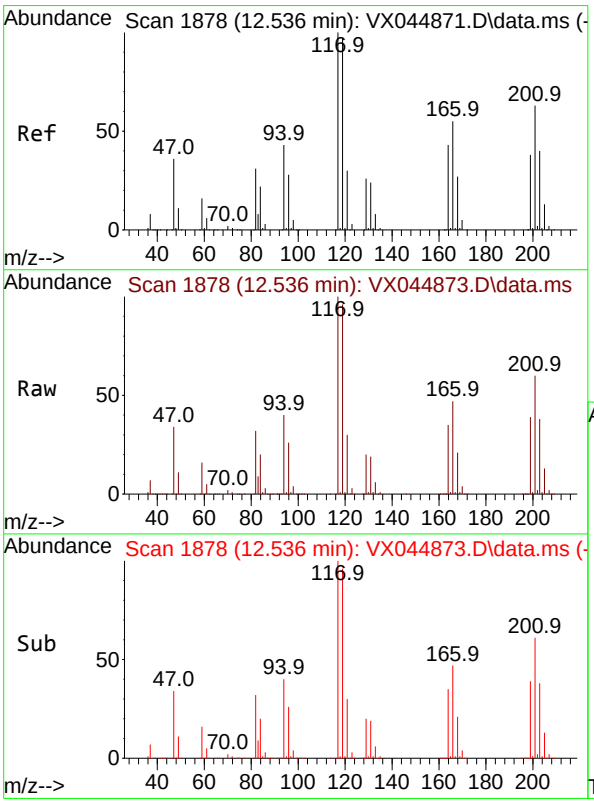
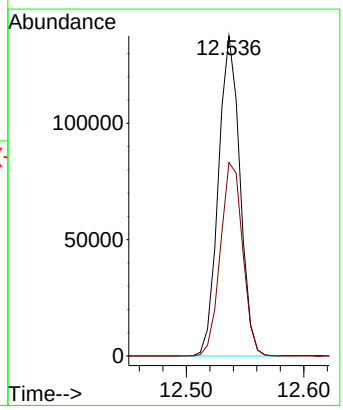
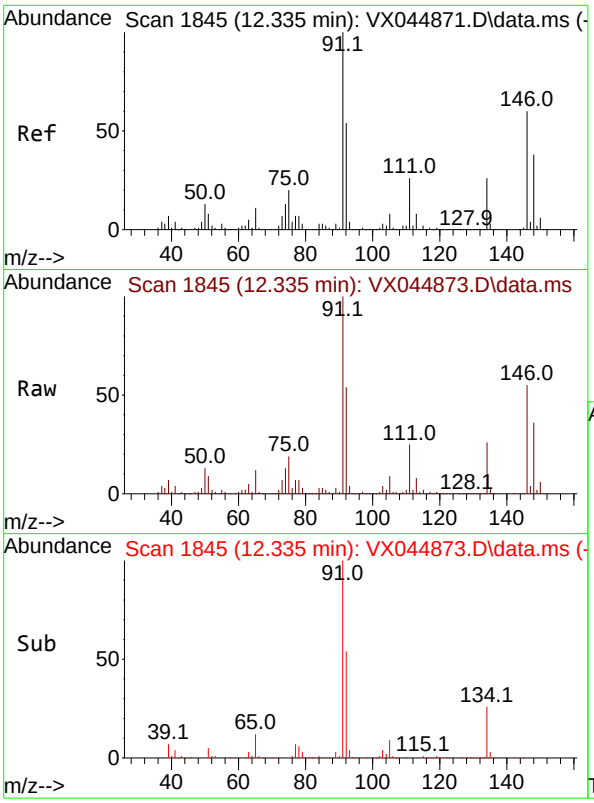


#90
Hexachloroethane
Concen: 167.760 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 175414

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.5	97.5

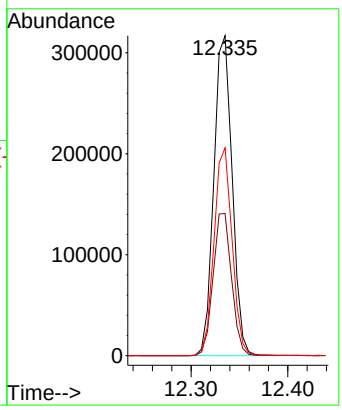




#91
1,2-Dichlorobenzene
Concen: 149.042 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:146 Resp: 41716

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.8	65.4
148	64.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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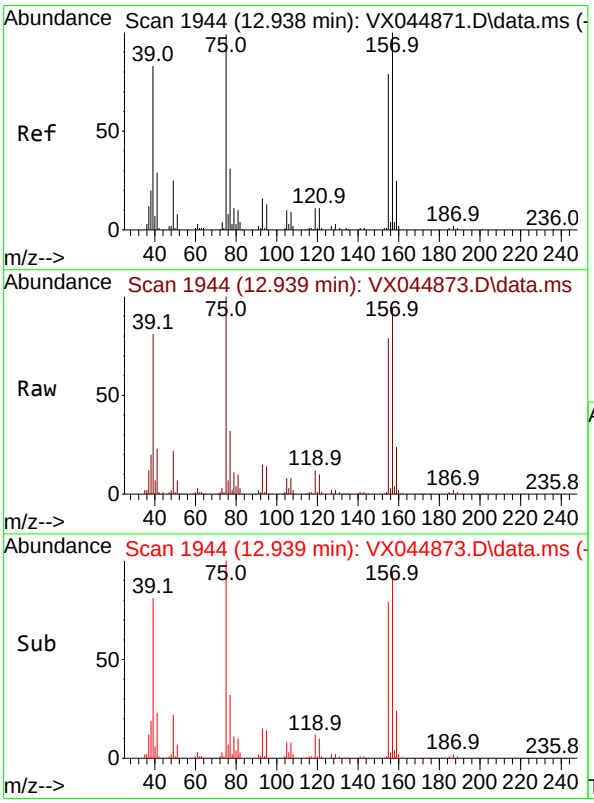
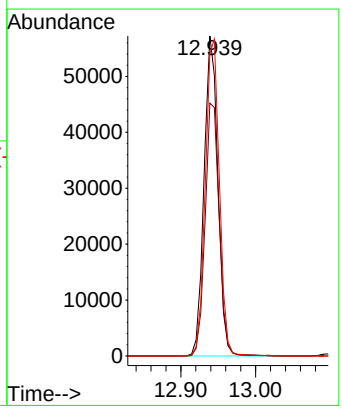
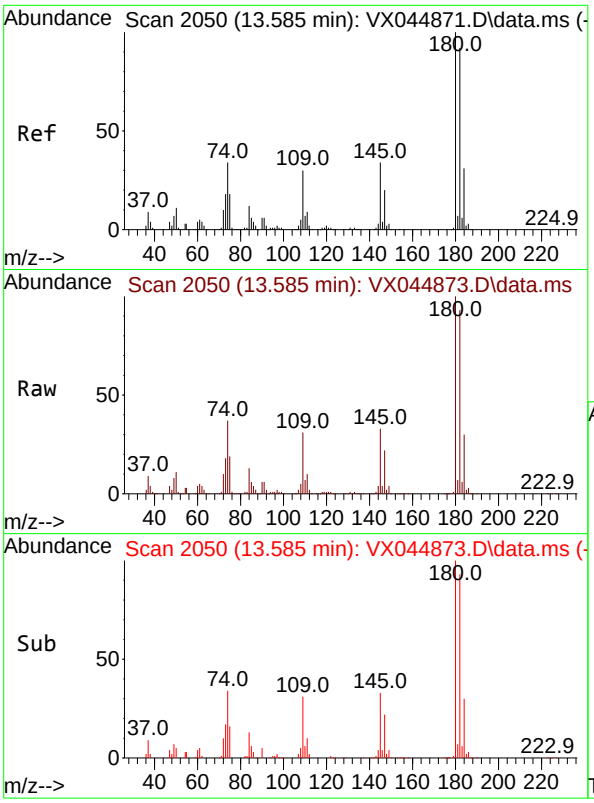


#92
1,2-Dibromo-3-Chloropropane
Concen: 171.783 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 73593

Ion	Ratio	Lower	Upper
75	100		
155	80.1	40.5	121.4
157	100.5	51.4	154.3

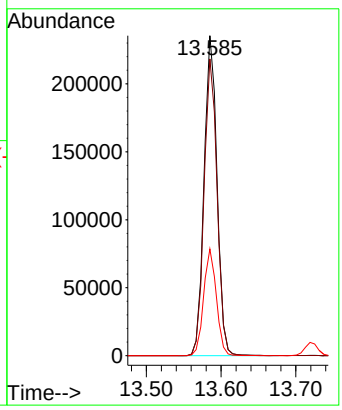




#93
1,2,4-Trichlorobenzene
Concen: 167.095 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:180 Resp: 28300

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.6	142.8
145	32.8	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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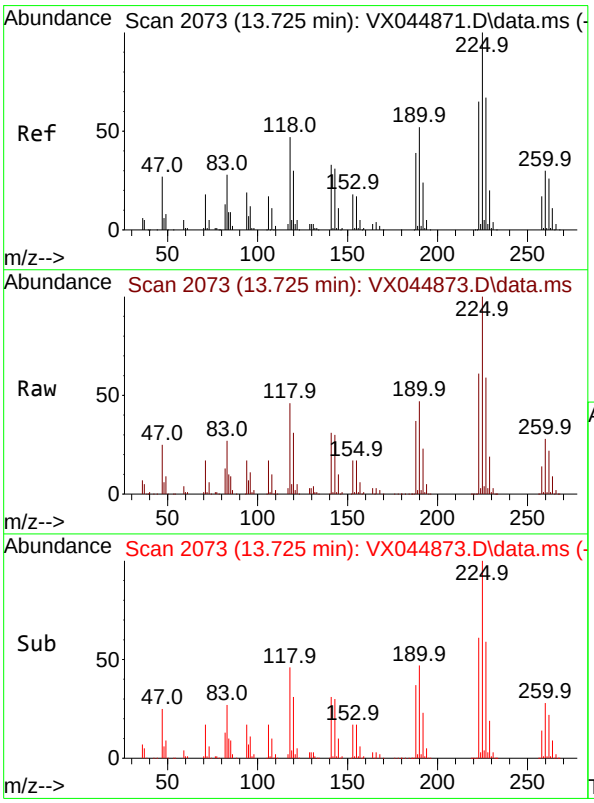
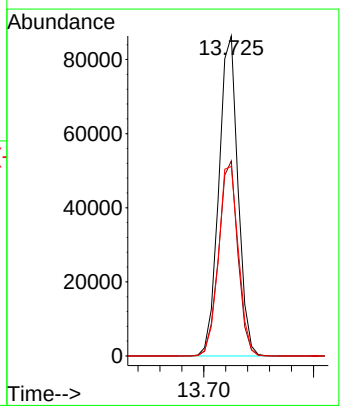
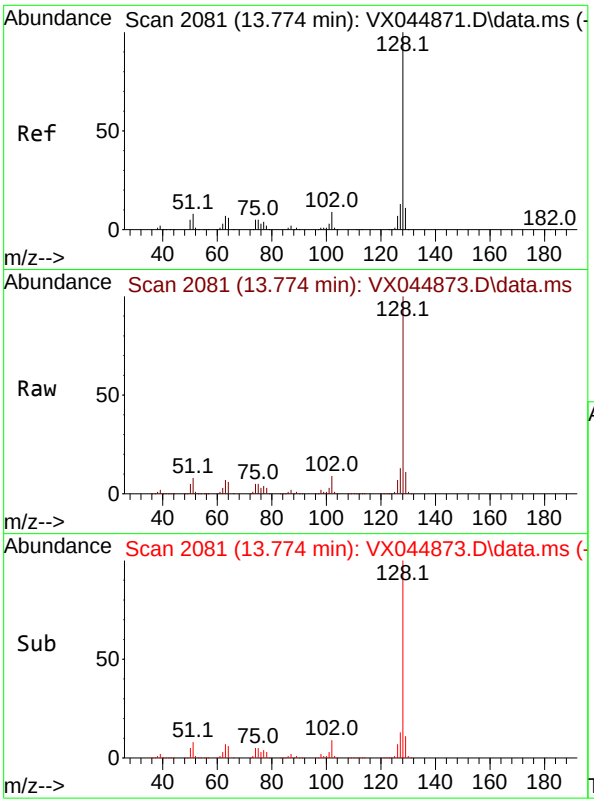


#94
Hexachlorobutadiene
Concen: 155.682 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:225 Resp: 104674

Ion	Ratio	Lower	Upper
225	100		
223	60.9	31.4	94.2
227	61.9	32.3	96.8

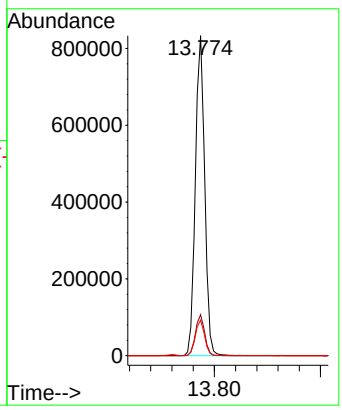




#95
Naphthalene
Concen: 165.916 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:128 Resp: 101580

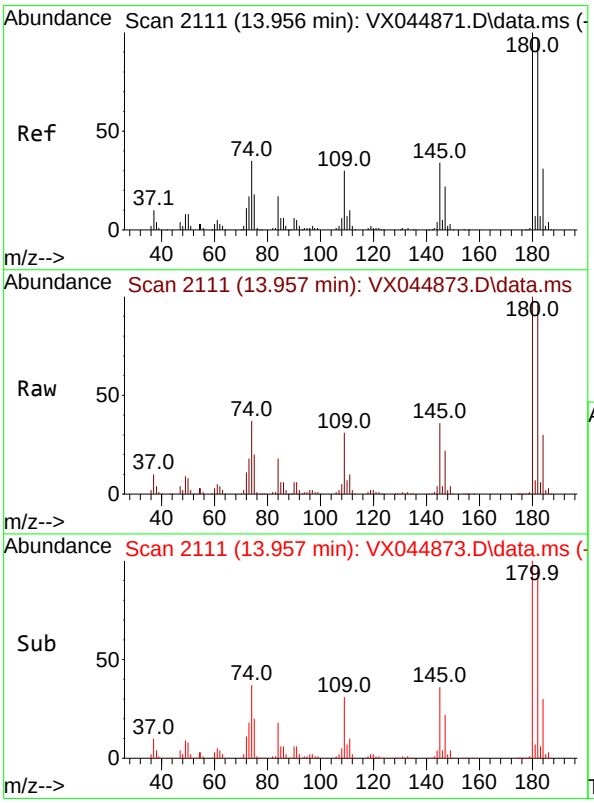
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	11.0	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

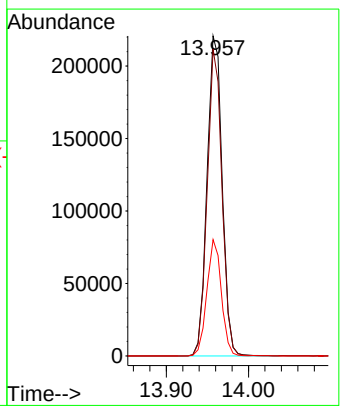
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 165.408 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:180 Resp: 282289

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.9	143.6
145	34.9	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	135936	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	245098	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213248	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95635	48.061	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.120%			
35) Dibromofluoromethane	5.379	113	78360	49.173	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.340%			
50) Toluene-d8	8.647	98	299178	49.649	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.300%			
62) 4-Bromofluorobenzene	11.079	95	105201	51.786	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	93752	49.173	ug/l	99
3) Chloromethane	1.300	50	110431	47.590	ug/l	98
4) Vinyl Chloride	1.374	62	105730	47.033	ug/l	100
5) Bromomethane	1.593	94	31428	46.719	ug/l	97
6) Chloroethane	1.660	64	37913	42.198	ug/l	99
7) Trichlorofluoromethane	1.867	101	138044	48.558	ug/l	97
8) Diethyl Ether	2.130	74	49018	47.544	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	86892	50.588	ug/l	98
10) Methyl Iodide	2.447	142	111488	50.082	ug/l	100
11) Tert butyl alcohol	2.983	59	92949	251.791	ug/l	100
12) 1,1-Dichloroethene	2.306	96	83987	47.935	ug/l	95
13) Acrolein	2.233	56	91744	240.879	ug/l	98
14) Allyl chloride	2.654	41	155084	48.976	ug/l	99
15) Acrylonitrile	3.062	53	247921	251.537	ug/l	99
16) Acetone	2.379	43	205743	257.198	ug/l	98
17) Carbon Disulfide	2.501	76	237694	49.472	ug/l	100
18) Methyl Acetate	2.703	43	126015	49.920	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	275685	49.453	ug/l	99
20) Methylene Chloride	2.782	84	94006	47.978	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	84720	49.129	ug/l	98
22) Diisopropyl ether	3.757	45	300357	50.138	ug/l	98
23) Vinyl Acetate	3.715	43	1257431	257.465	ug/l	100
24) 1,1-Dichloroethane	3.599	63	165351	49.329	ug/l	99
25) 2-Butanone	4.556	43	335358	258.175	ug/l	97
26) 2,2-Dichloropropane	4.464	77	133670	50.285	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	102518	49.493	ug/l	99
28) Bromochloromethane	4.891	49	72893	45.250	ug/l	99
29) Tetrahydrofuran	5.001	42	218496	253.318	ug/l	100
30) Chloroform	5.086	83	157312	48.393	ug/l	98
31) Cyclohexane	5.458	56	152073	49.211	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	134626	48.825	ug/l	100
36) 1,1-Dichloropropene	5.684	75	111968	48.702	ug/l	99
37) Ethyl Acetate	4.708	43	126071	49.300	ug/l	99
38) Carbon Tetrachloride	5.672	117	110581	49.083	ug/l	97
39) Methylcyclohexane	7.372	83	158289	53.254	ug/l	98
40) Benzene	6.031	78	358365	49.919	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	73559	53.741	ug/l		99
42) 1,2-Dichloroethane	6.080	62	115339	50.410	ug/l		100
43) Isopropyl Acetate	6.336	43	213901	51.798	ug/l		100
44) Trichloroethene	7.116	130	81911	49.917	ug/l		99
45) 1,2-Dichloropropane	7.427	63	89992	50.387	ug/l		98
46) Dibromomethane	7.580	93	61360	49.540	ug/l		99
47) Bromodichloromethane	7.818	83	122265	50.980	ug/l		99
48) Methyl methacrylate	7.690	41	102900	52.848	ug/l		99
49) 1,4-Dioxane	7.659	88	42658	1021.138	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	665564	265.112	ug/l		100
52) Toluene	8.714	92	216682	50.680	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	130405	53.731	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	143379	52.986	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	83510	50.811	ug/l		100
56) Ethyl methacrylate	9.116	69	143524	54.068	ug/l		99
57) 1,3-Dichloropropane	9.305	76	146236	50.852	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	370622	284.352	ug/l		99
59) 2-Hexanone	9.427	43	488298	269.951	ug/l		99
60) Dibromochloromethane	9.518	129	90826	51.673	ug/l		99
61) 1,2-Dibromoethane	9.604	107	85683	51.436	ug/l		100
64) Tetrachloroethene	9.268	164	66468	49.424	ug/l		98
65) Chlorobenzene	10.079	112	233373	50.952	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	75488	51.205	ug/l		98
67) Ethyl Benzene	10.189	91	415575	51.415	ug/l		99
68) m/p-Xylenes	10.299	106	310925	104.282	ug/l		100
69) o-Xylene	10.640	106	151995	50.804	ug/l		100
70) Styrene	10.652	104	257972	53.521	ug/l		100
71) Bromoform	10.799	173	59409	53.997	ug/l	#	100
73) Isopropylbenzene	10.957	105	390246	49.921	ug/l		100
74) N-amyl acetate	10.841	43	186145	52.621	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	129829	48.331	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	106893m	49.659	ug/l		
77) Bromobenzene	11.195	156	88129	49.725	ug/l		100
78) n-propylbenzene	11.299	91	463655	51.386	ug/l		99
79) 2-Chlorotoluene	11.360	91	272091	49.065	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	323251	50.956	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	44070	52.665	ug/l		99
82) 4-Chlorotoluene	11.451	91	312112	50.872	ug/l		100
83) tert-Butylbenzene	11.713	119	321772	50.139	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	323035	51.593	ug/l		100
85) sec-Butylbenzene	11.890	105	410197	51.617	ug/l		100
86) p-Isopropyltoluene	12.006	119	336027	52.581	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	164508	50.475	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	163203	49.526	ug/l		100
89) n-Butylbenzene	12.329	91	311764	55.142	ug/l		100
90) Hexachloroethane	12.536	117	61016	50.990	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	161590	50.447	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	25339	51.684	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	102197	52.726	ug/l		99
94) Hexachlorobutadiene	13.719	225	38998	50.683	ug/l		98
95) Naphthalene	13.774	128	371576	53.033	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	100730	51.575	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

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

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

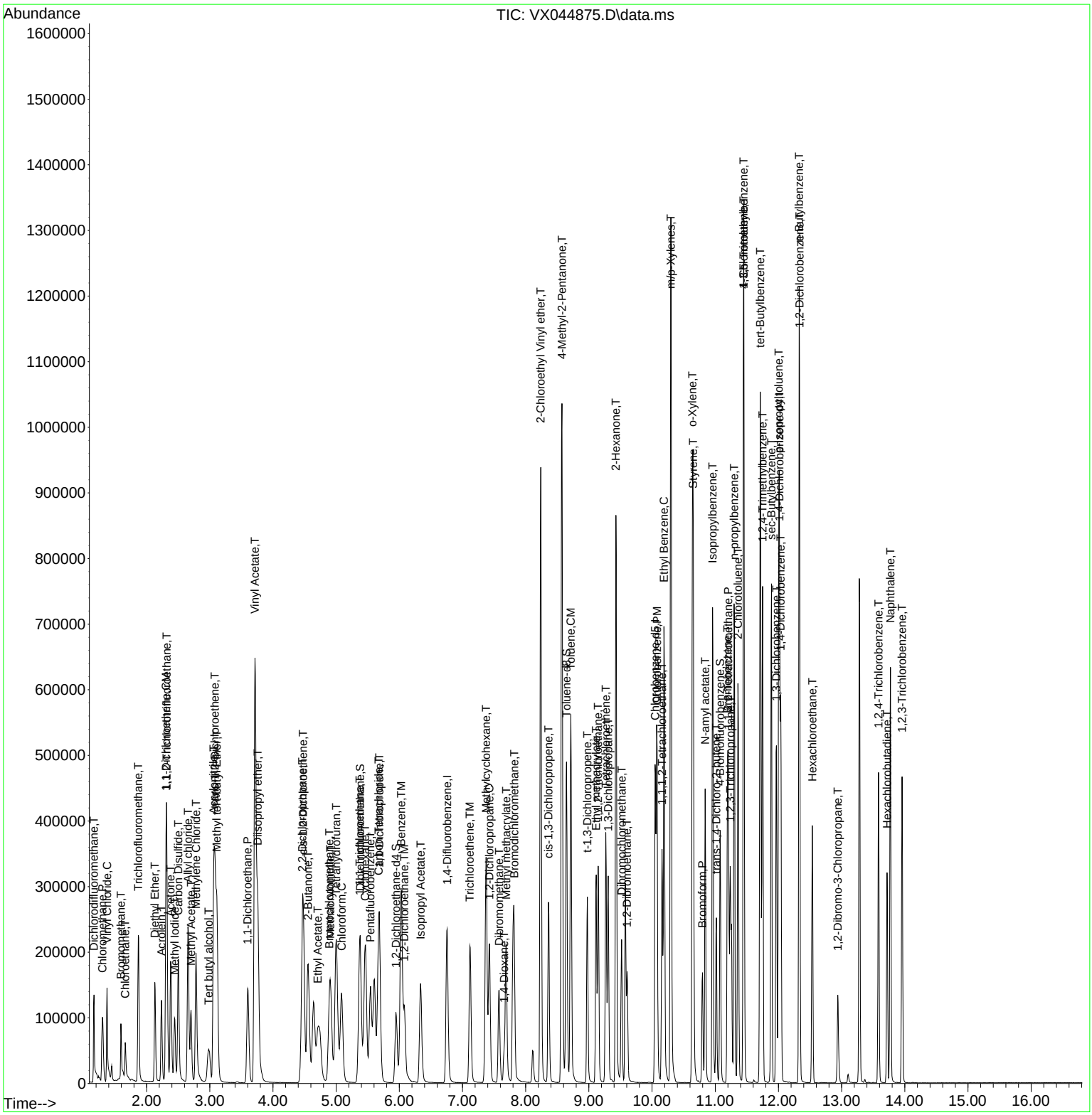
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

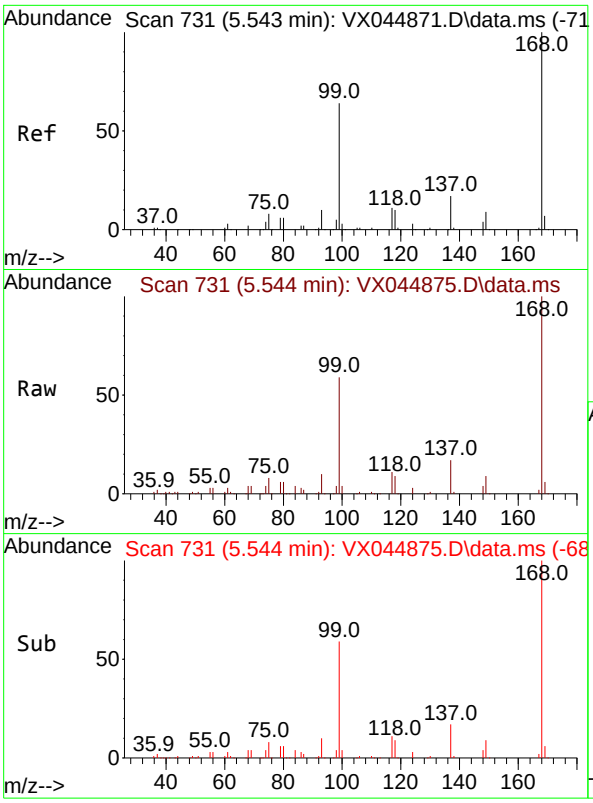
Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

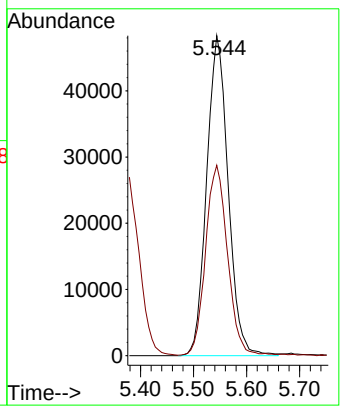




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:168 Resp: 13593

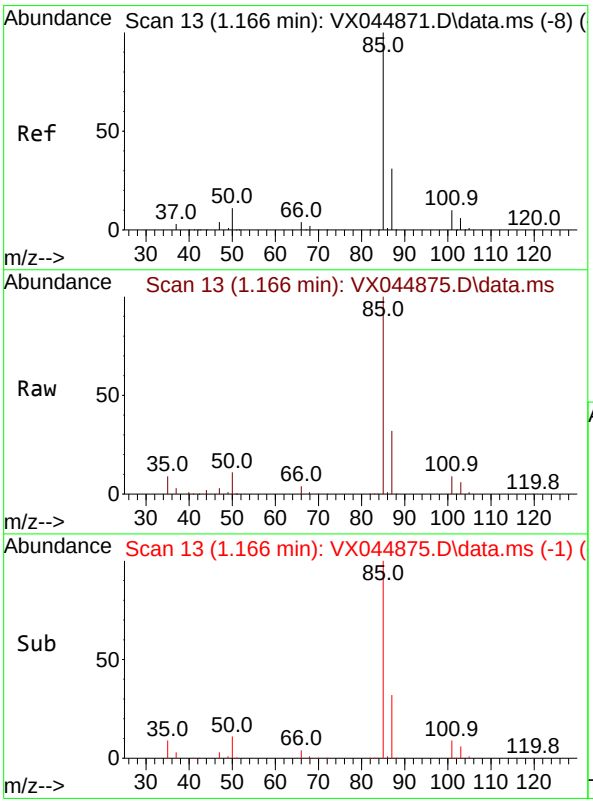
Ion	Ratio	Lower	Upper
168	100		
99	59.3	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

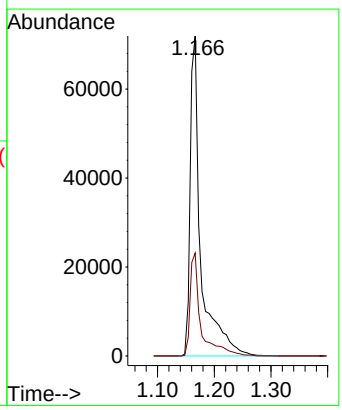
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

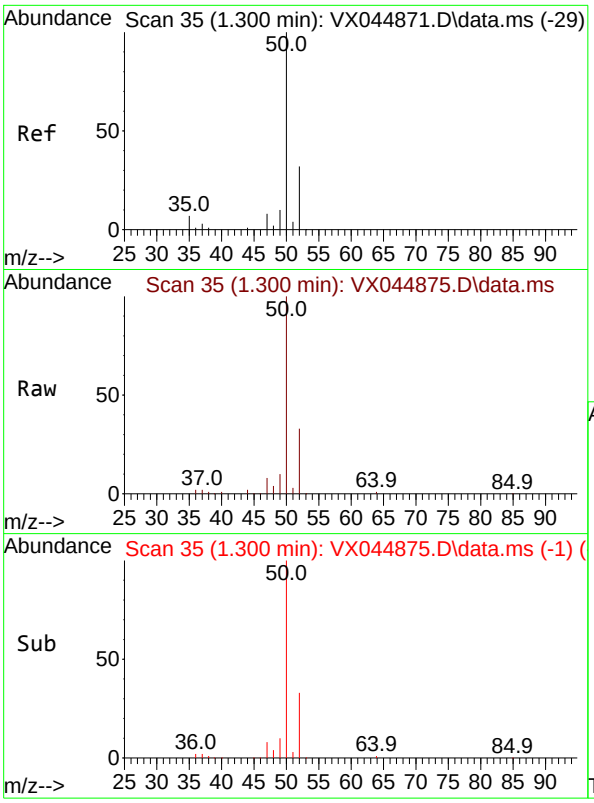


#2
Dichlorodifluoromethane
Concen: 49.173 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 85 Resp: 93752

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.8	47.3

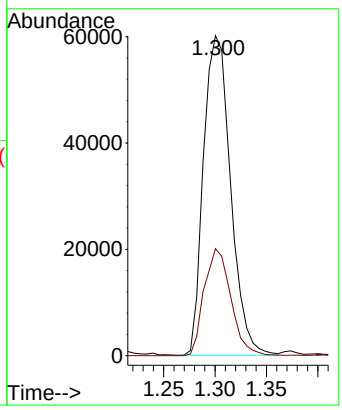




#3
Chloromethane
Concen: 47.590 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 50 Resp: 11043

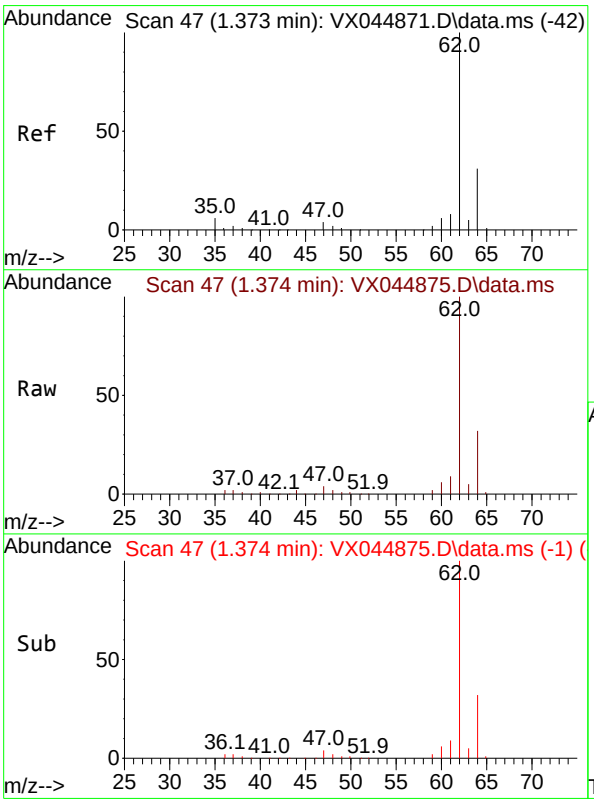
Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

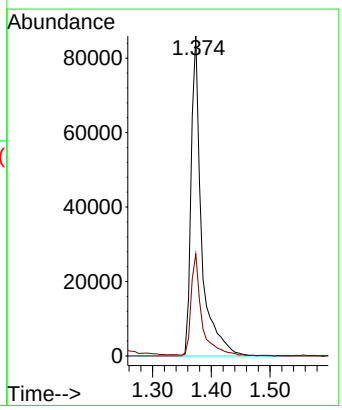
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

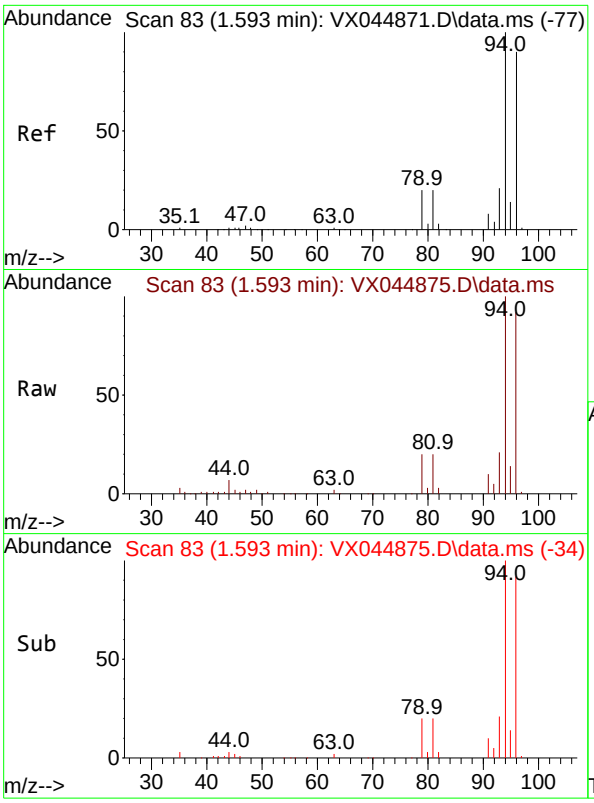


#4
Vinyl Chloride
Concen: 47.033 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 105730

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0

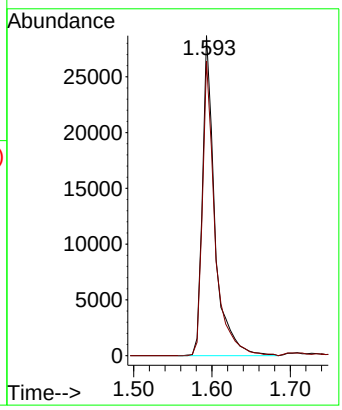




#5
Bromomethane
Concen: 46.719 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 94 Resp: 3142

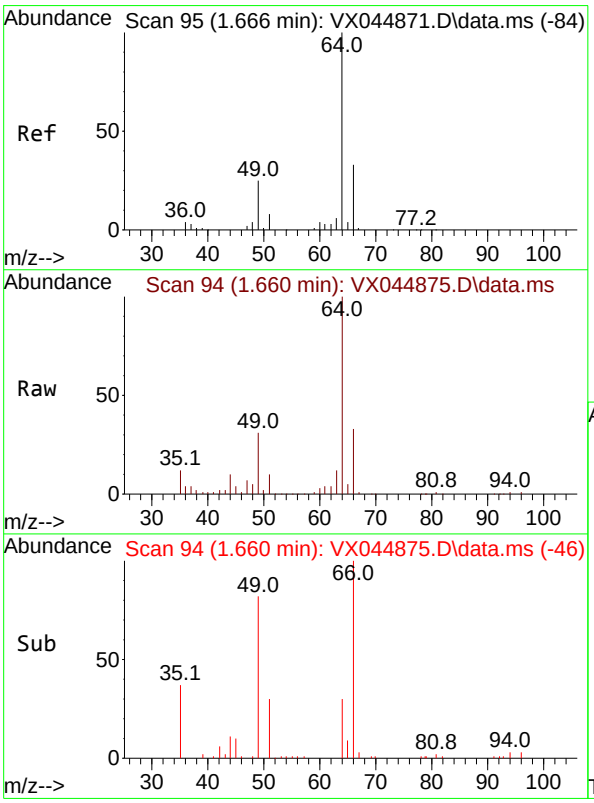
Ion	Ratio	Lower	Upper
94	100		
96	92.0	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

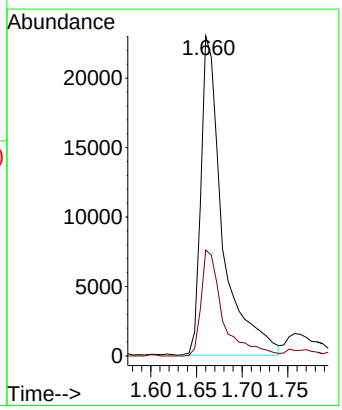
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

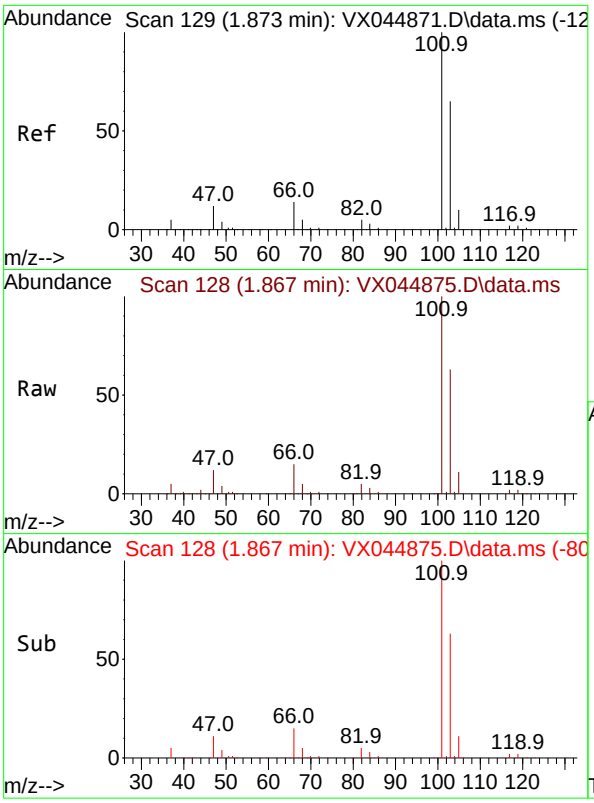


#6
Chloroethane
Concen: 42.198 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 64 Resp: 37913

Ion	Ratio	Lower	Upper
64	100		
66	33.2	25.9	38.9

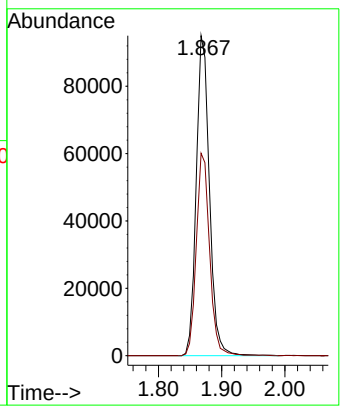




#7
Trichlorofluoromethane
Concen: 48.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:101 Resp: 13804

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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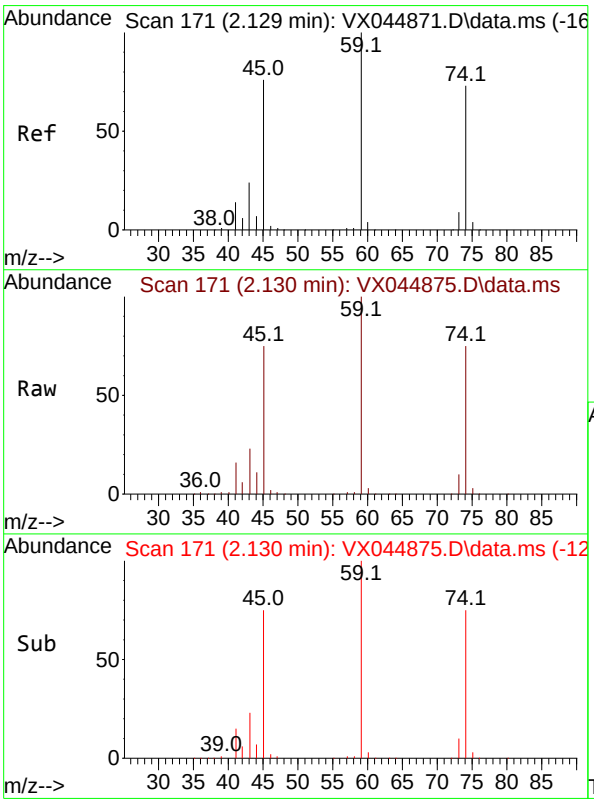
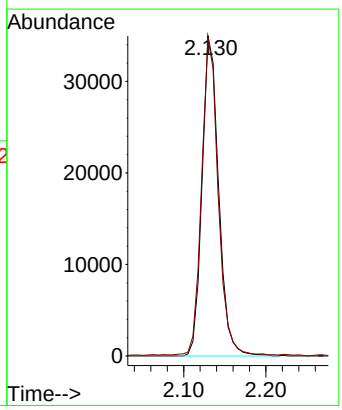
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

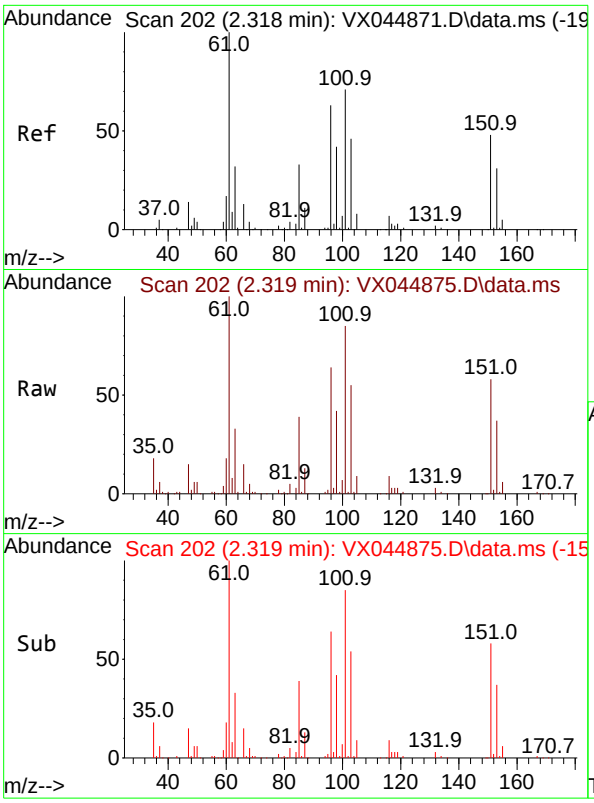


#8
Diethyl Ether
Concen: 47.544 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 74 Resp: 49018

Ion	Ratio	Lower	Upper
74	100		
45	98.9	51.1	153.4

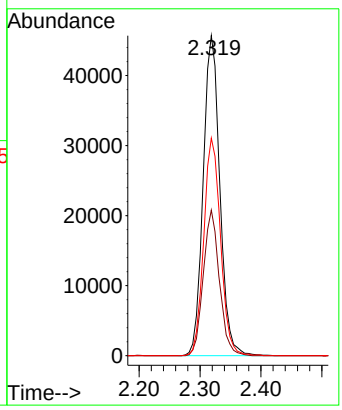




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.588 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:101 Resp: 8689

Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.7	53.5
151	68.4	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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Reviewed By :John Carlone 02/11/2025
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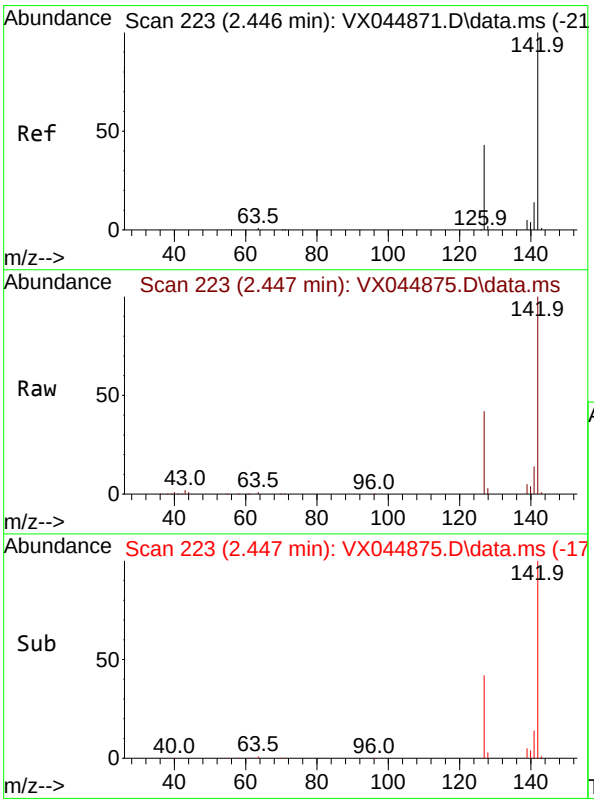
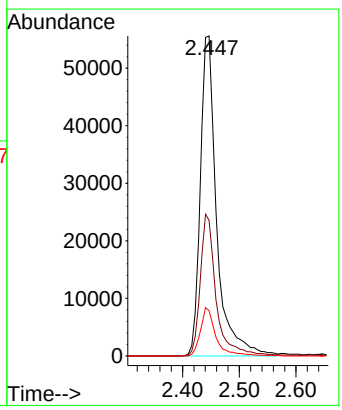
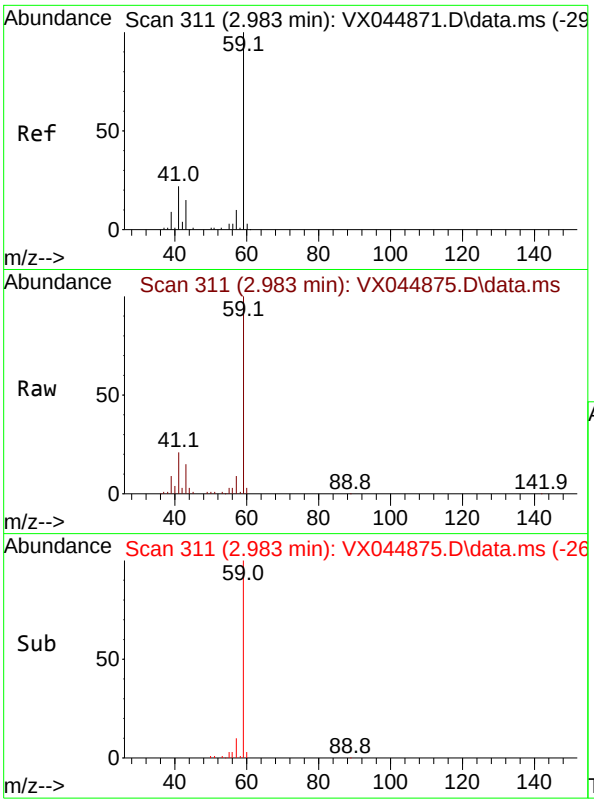


#10
Methyl Iodide
Concen: 50.082 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:142 Resp: 111488

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.3	11.4	17.2

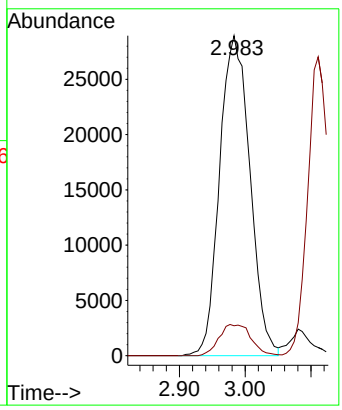




#11
Tert butyl alcohol
Concen: 251.791 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 59 Resp: 9294

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
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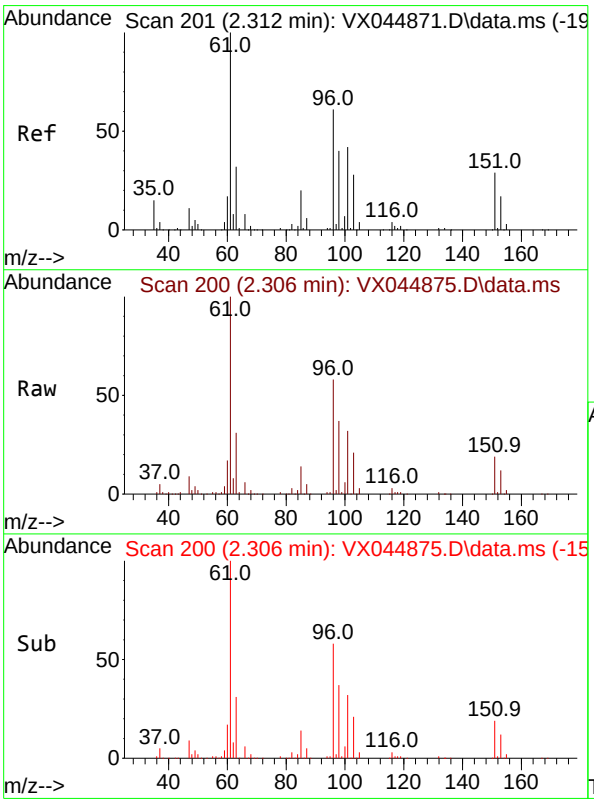
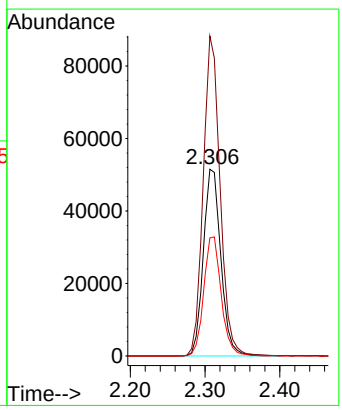
Supervised By :Mahesh Dadoda 02/11/2025

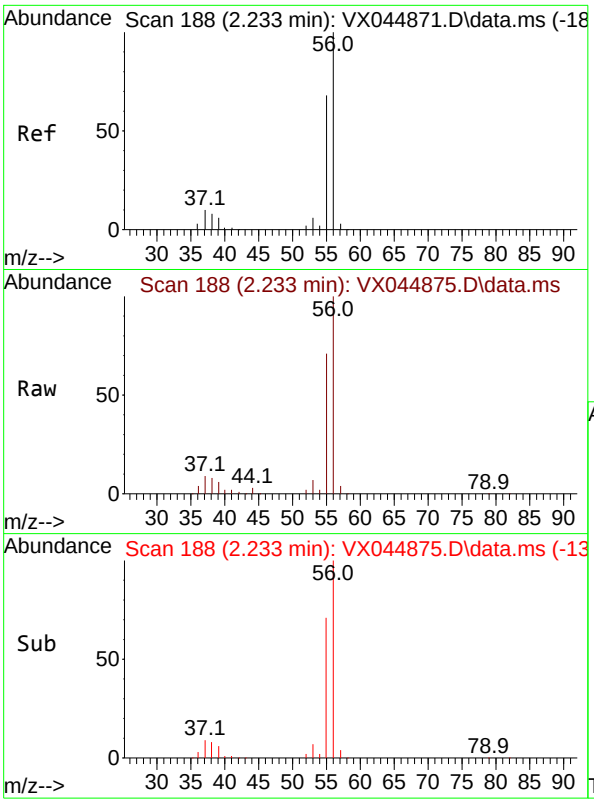


#12
1,1-Dichloroethene
Concen: 47.935 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 96 Resp: 83987

Ion	Ratio	Lower	Upper
96	100		
61	171.4	130.2	195.4
98	63.3	52.2	78.4

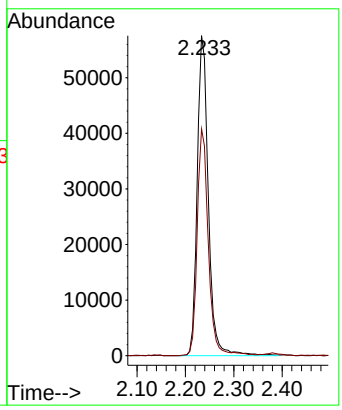




#13
Acrolein
Concen: 240.879 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 56 Resp: 9174

Ion	Ratio	Lower	Upper
56	100		
55	71.0	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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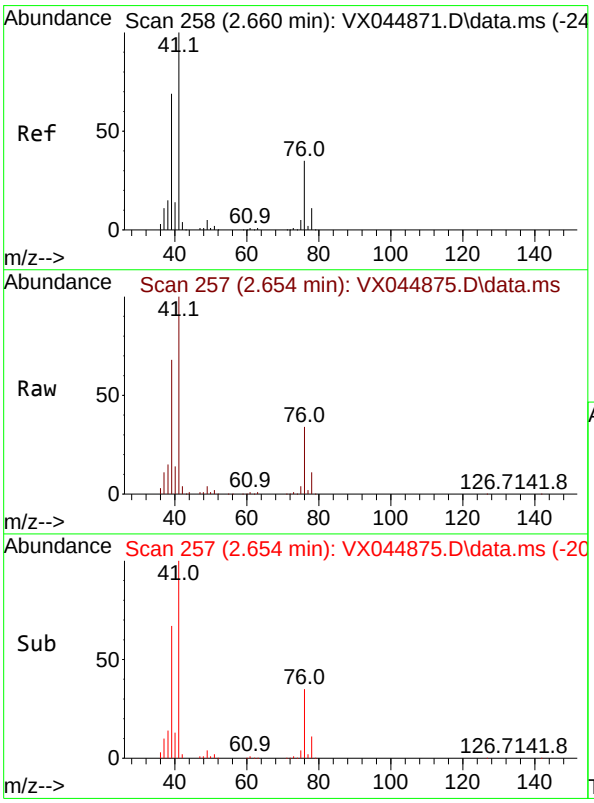
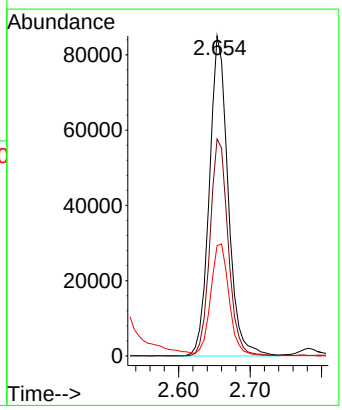
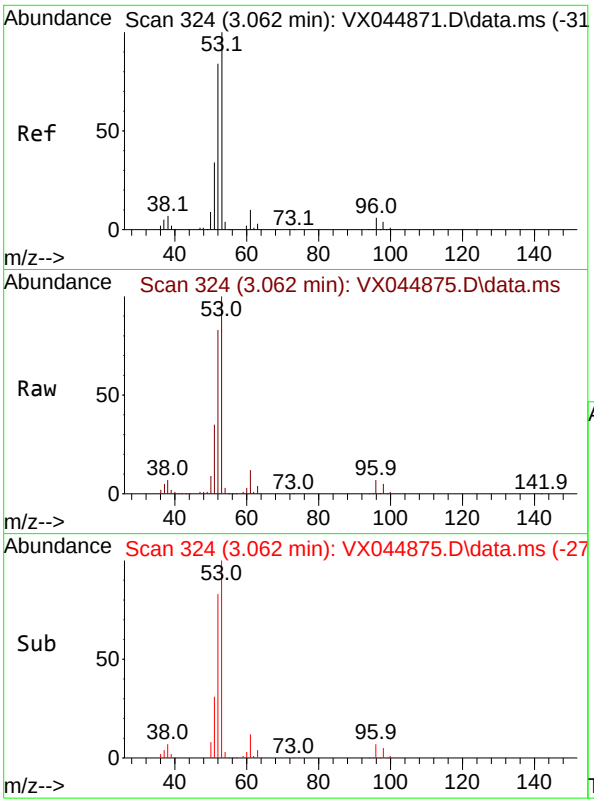


#14
Allyl chloride
Concen: 48.976 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 155084

Ion	Ratio	Lower	Upper
41	100		
39	65.4	51.4	77.2
76	34.2	27.0	40.4

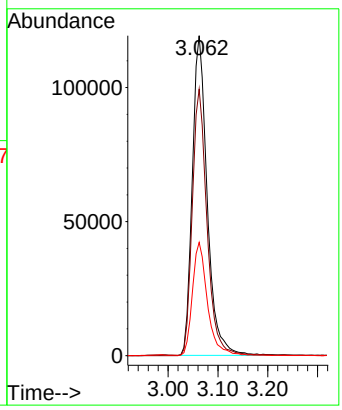




#15
Acrylonitrile
Concen: 251.537 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 53 Resp: 24792

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.0	97.6
51	35.7	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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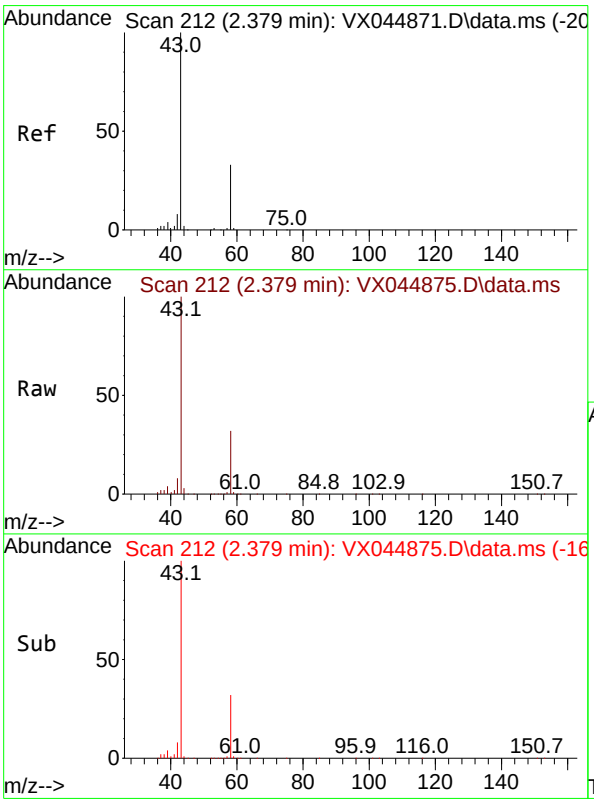
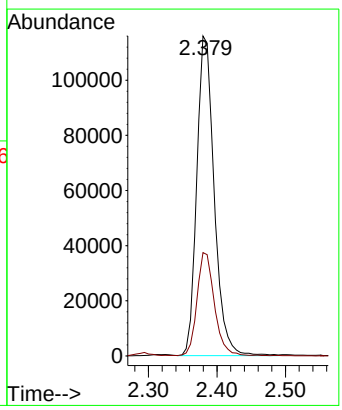
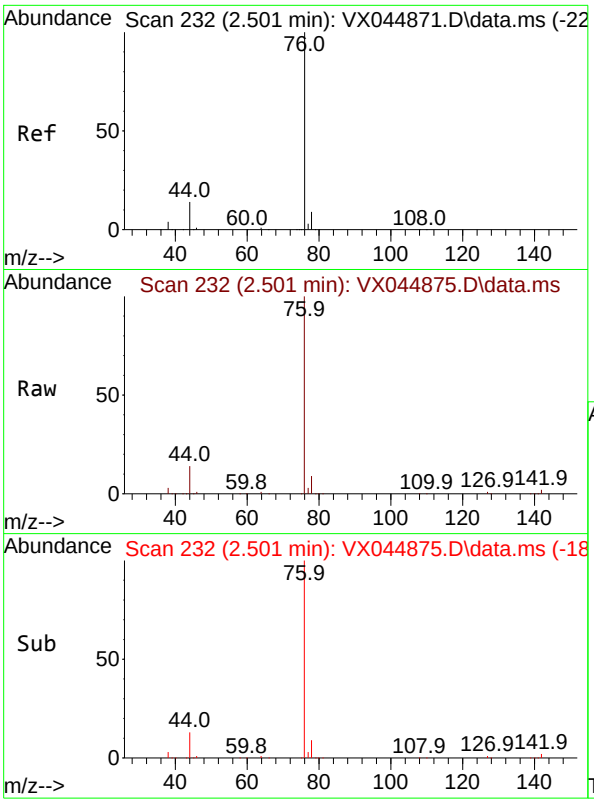


#16
Acetone
Concen: 257.198 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 205743

Ion	Ratio	Lower	Upper
43	100		
58	32.2	26.5	39.7

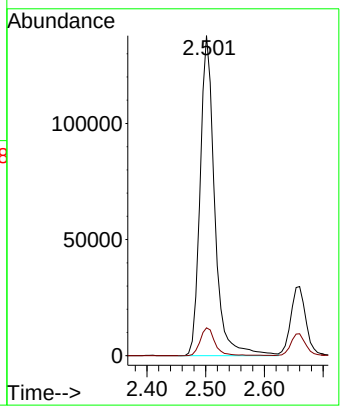




#17
Carbon Disulfide
Concen: 49.472 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 76 Resp: 23769

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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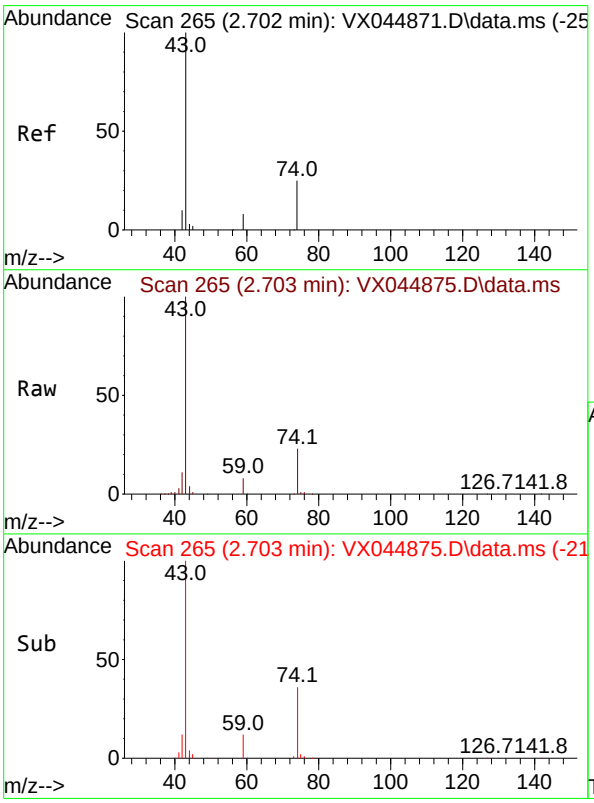
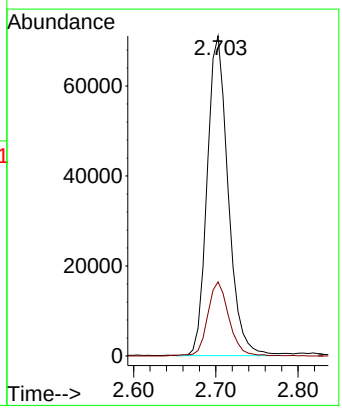
Supervised By :Mahesh Dadoda 02/11/2025

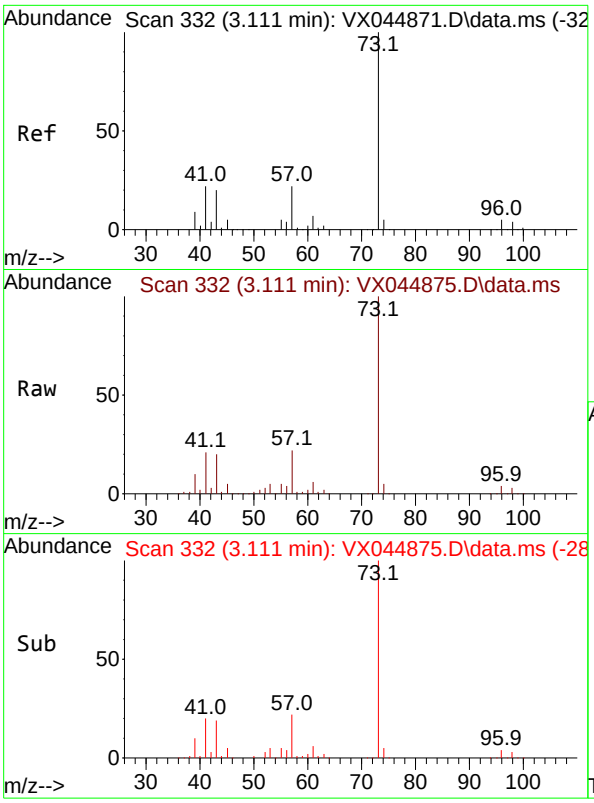


#18
Methyl Acetate
Concen: 49.920 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 126015

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.9	28.3

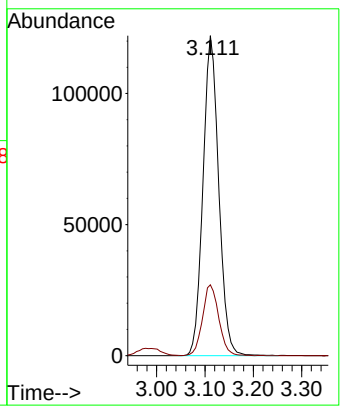




#19
Methyl tert-butyl Ether
Concen: 49.453 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 73 Resp: 27568

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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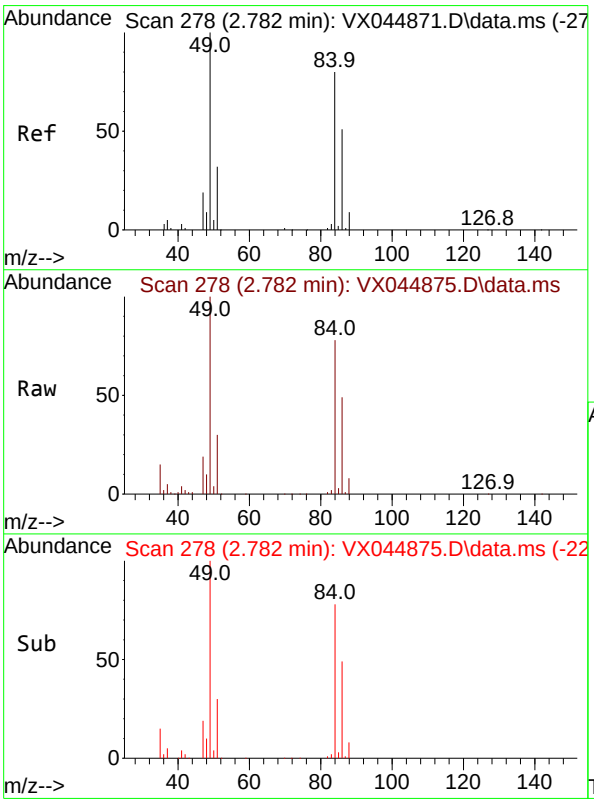
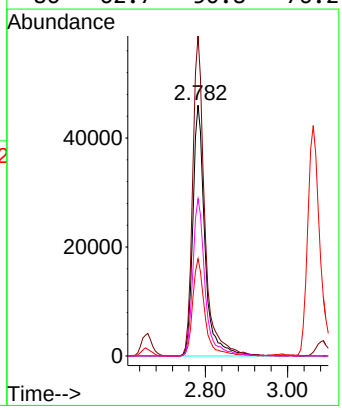
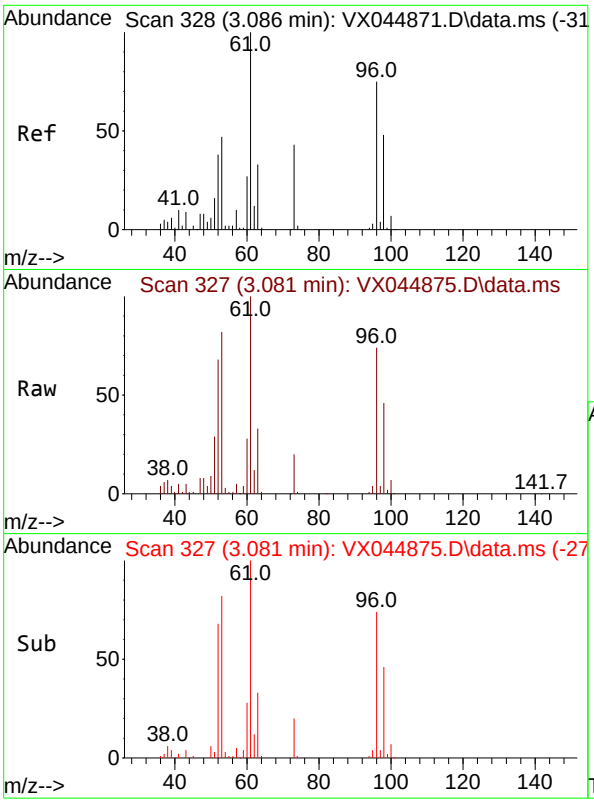


#20
Methylene Chloride
Concen: 47.978 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 84 Resp: 94006

Ion	Ratio	Lower	Upper
84	100		
49	127.6	100.1	150.1
51	38.8	31.7	47.5
86	62.7	50.8	76.2

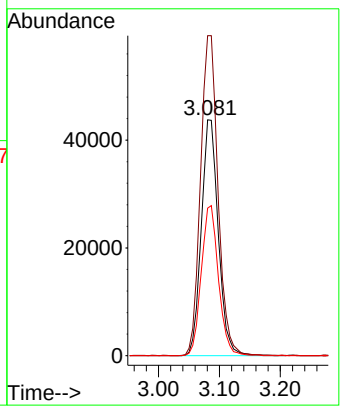




#21
trans-1,2-Dichloroethene
Concen: 49.129 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 96 Resp: 8472

Ion	Ratio	Lower	Upper
96	100		
61	135.7	106.0	159.0
98	62.5	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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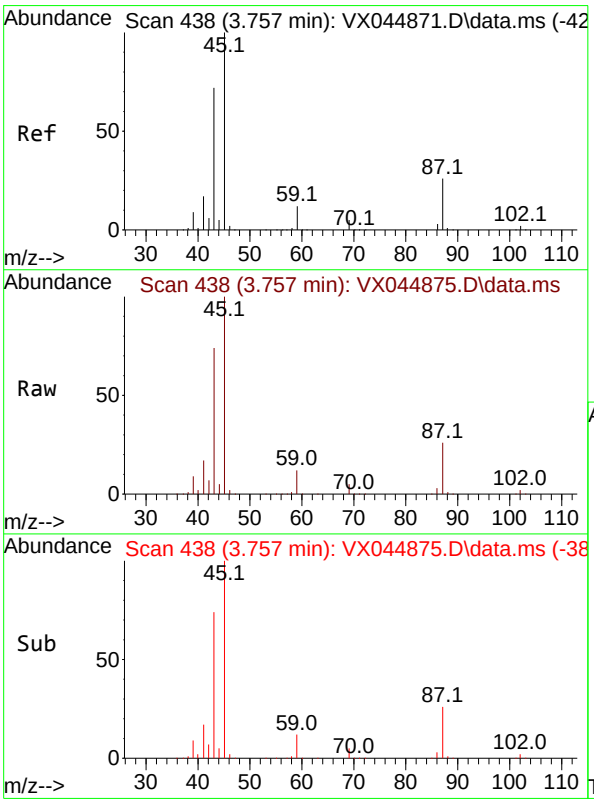
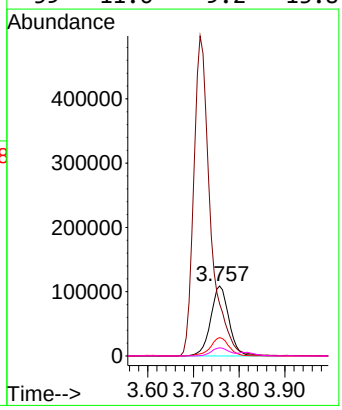
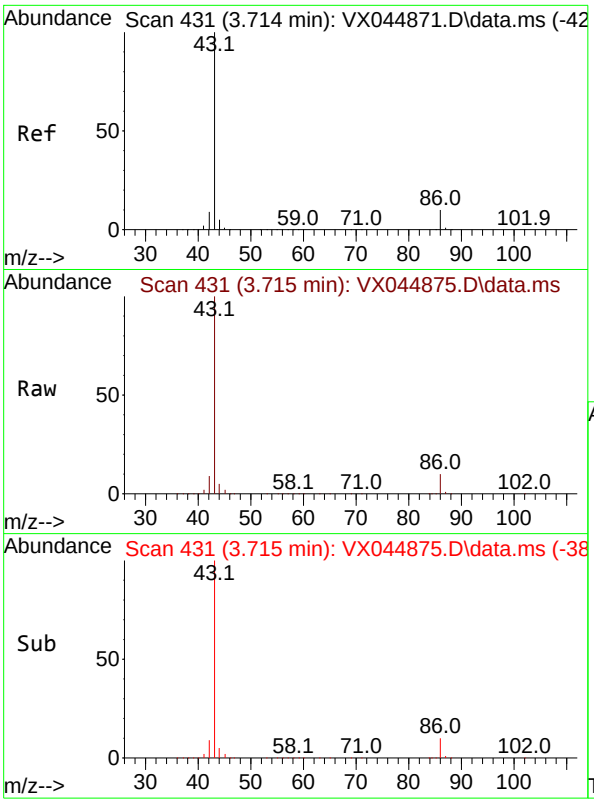


#22
Diisopropyl ether
Concen: 50.138 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 45 Resp: 300357

Ion	Ratio	Lower	Upper
45	100		
43	74.3	58.0	87.0
87	26.4	20.7	31.1
59	11.6	9.2	13.8

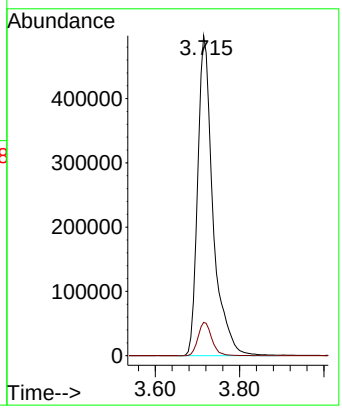




#23
Vinyl Acetate
Concen: 257.465 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 125743

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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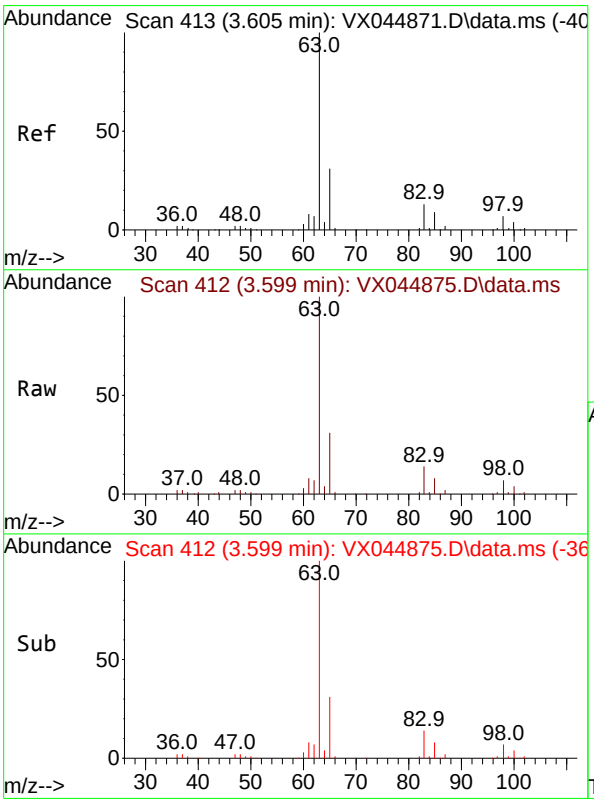
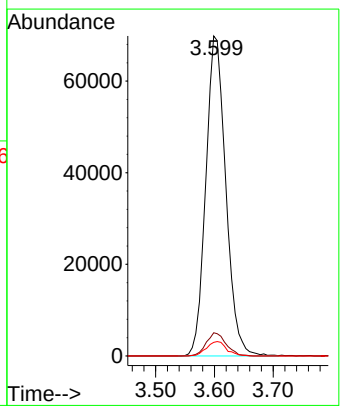
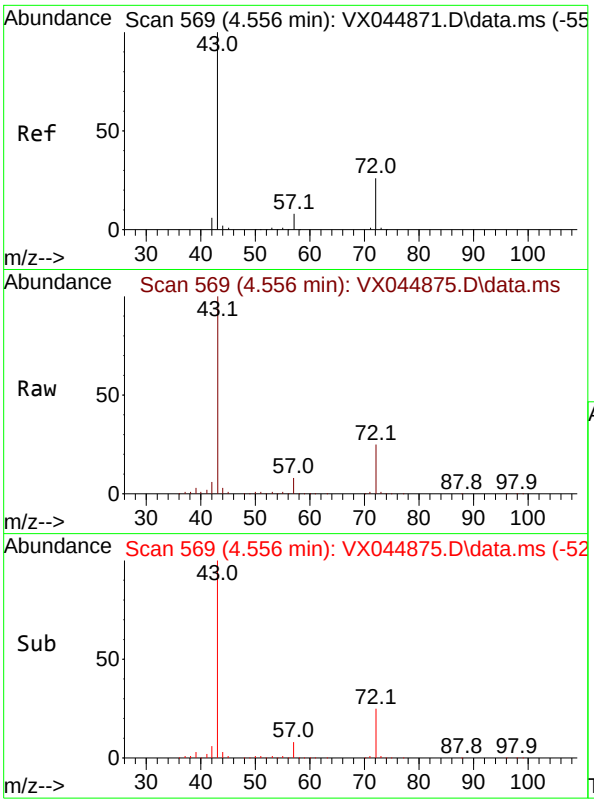


#24
1,1-Dichloroethane
Concen: 49.329 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 165351

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.3	9.9
100	4.2	2.1	6.5

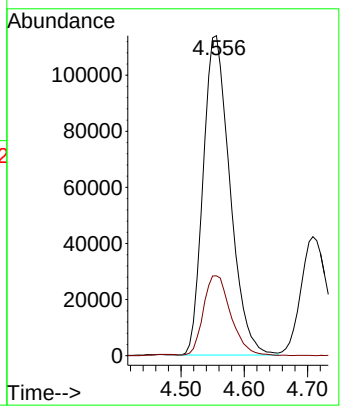




#25
2-Butanone
Concen: 258.175 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 33535

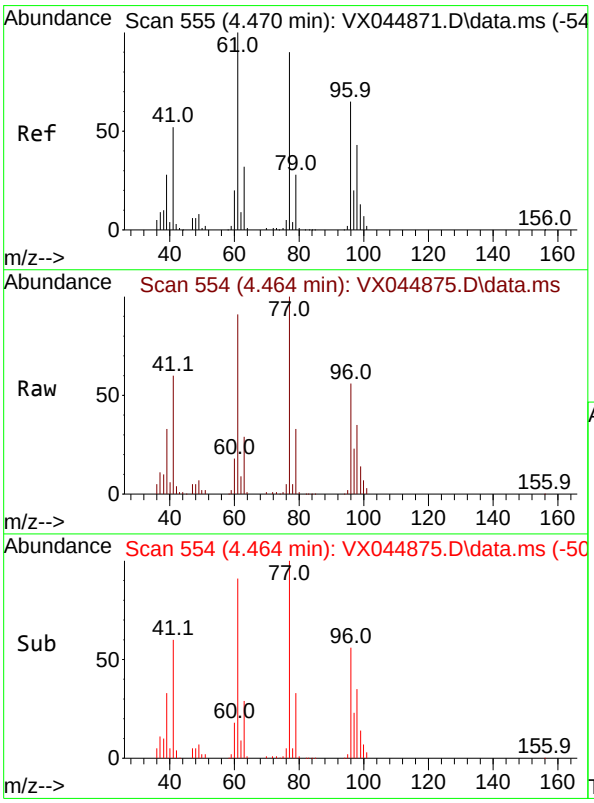
Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

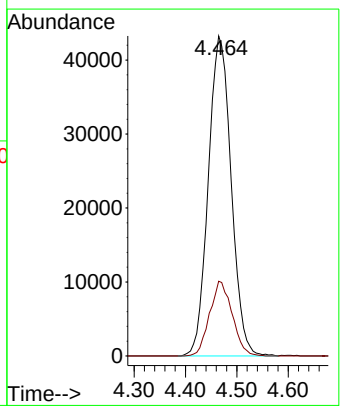
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

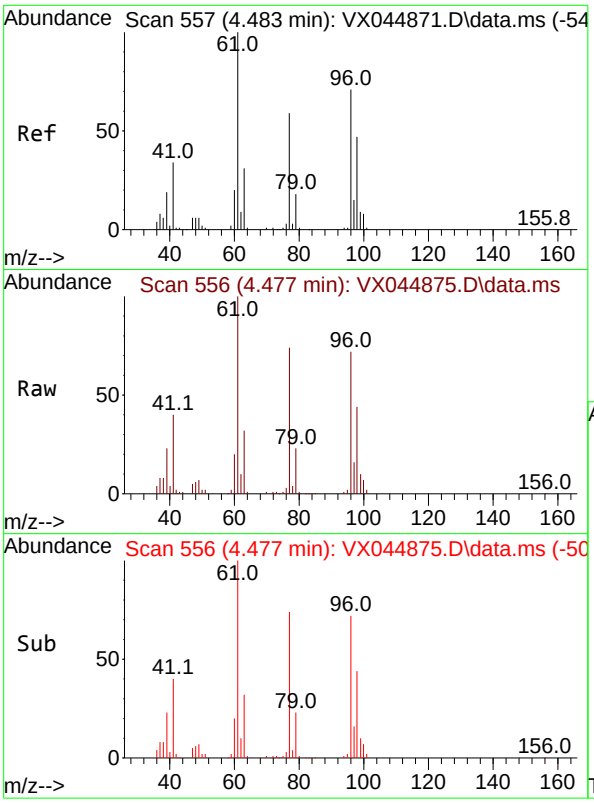


#26
2,2-Dichloropropane
Concen: 50.285 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 77 Resp: 133670

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.8	35.3

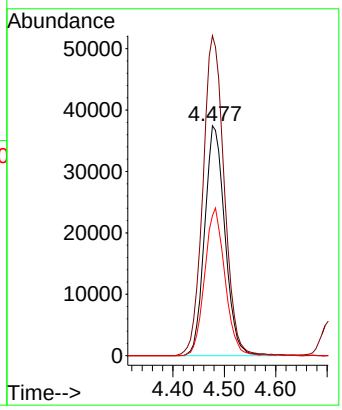




#27
cis-1,2-Dichloroethene
Concen: 49.493 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 96 Resp: 10251

Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	294.0
98	63.9	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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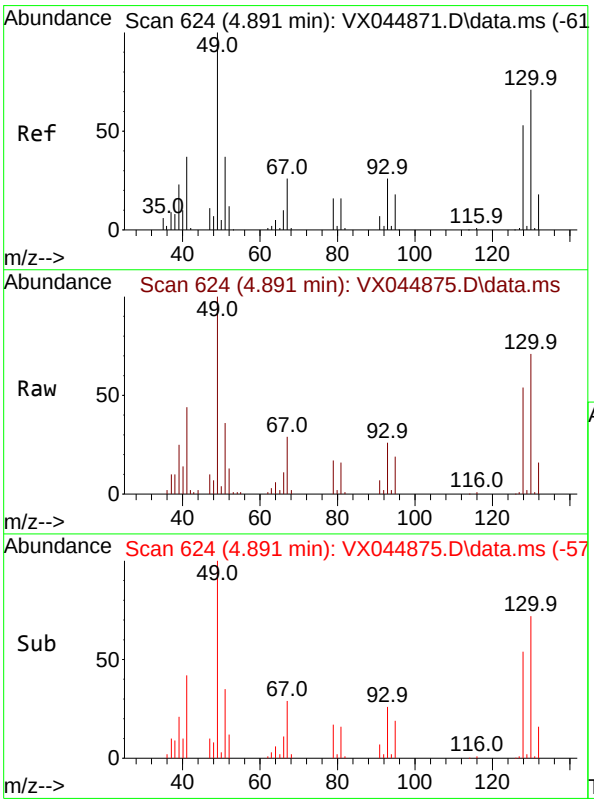
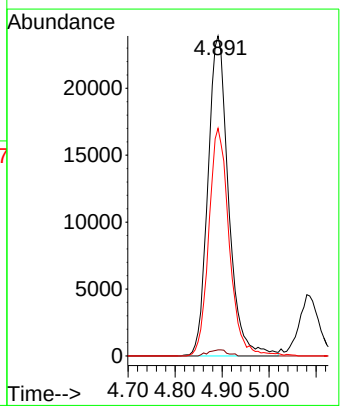
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

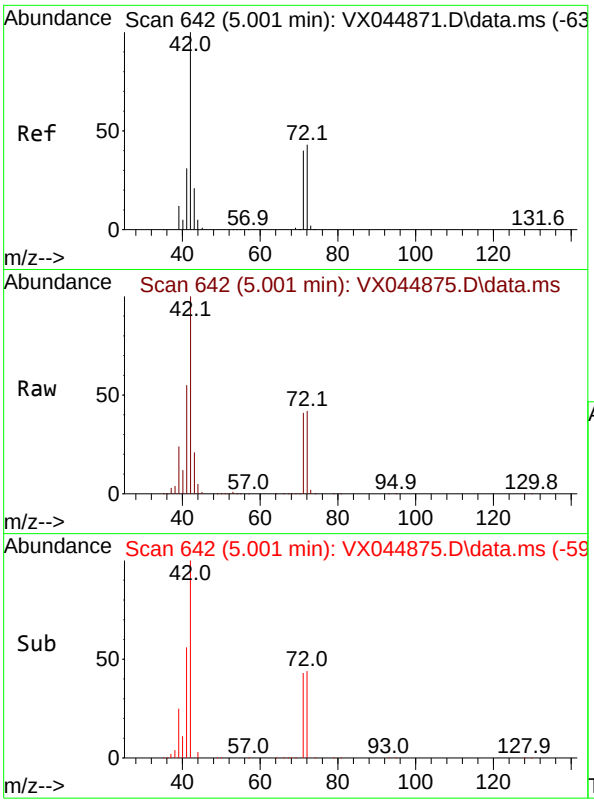


#28
Bromochloromethane
Concen: 45.250 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 49 Resp: 72893

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	70.3	56.7	85.1

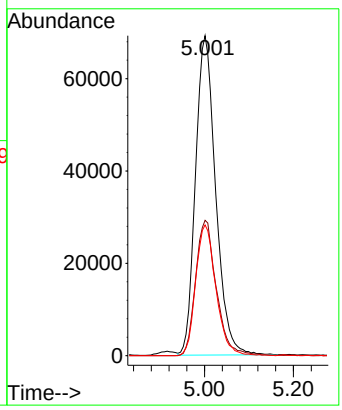




#29
Tetrahydrofuran
Concen: 253.318 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 42 Resp: 21849

Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.0	52.4
71	41.1	32.6	48.8



Instrument :
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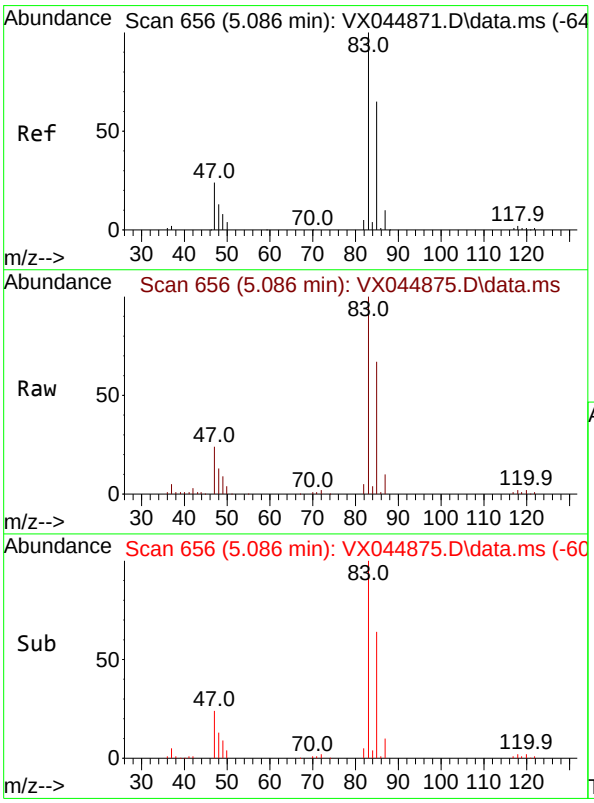
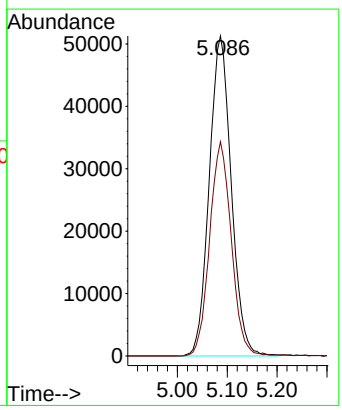
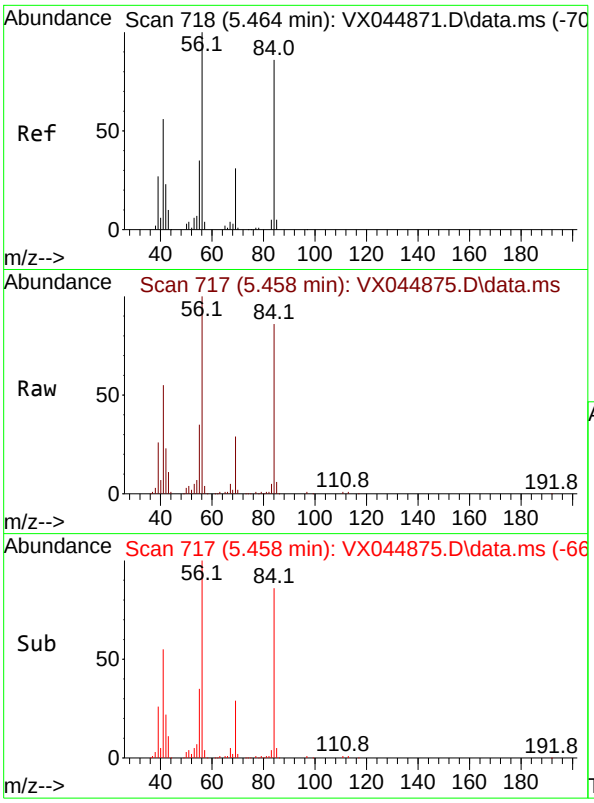


#30
Chloroform
Concen: 48.393 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 157312

Ion	Ratio	Lower	Upper
83	100		
85	66.9	52.1	78.1

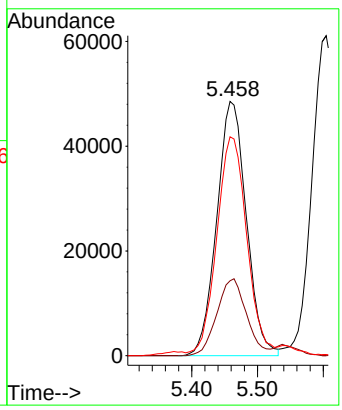




#31
Cyclohexane
Concen: 49.211 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 56 Resp: 15207

Ion	Ratio	Lower	Upper
56	100		
69	29.4	24.4	36.6
84	84.6	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
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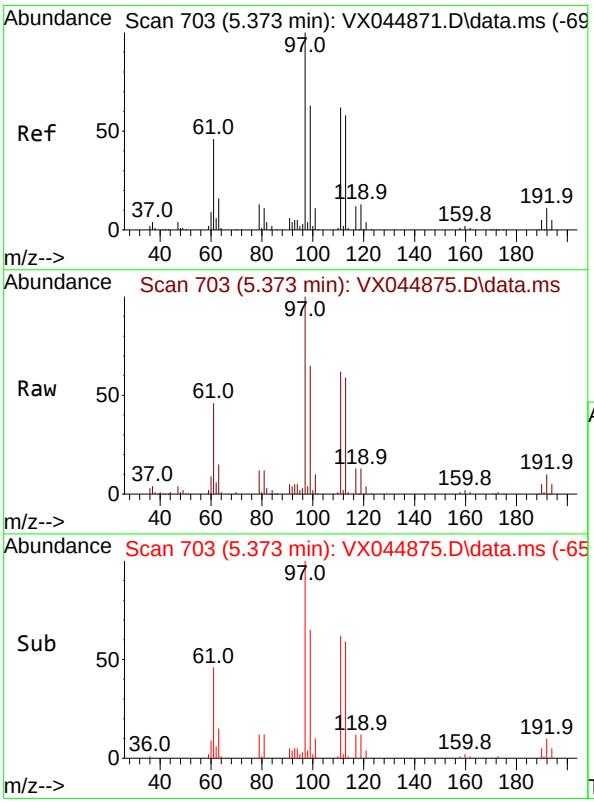
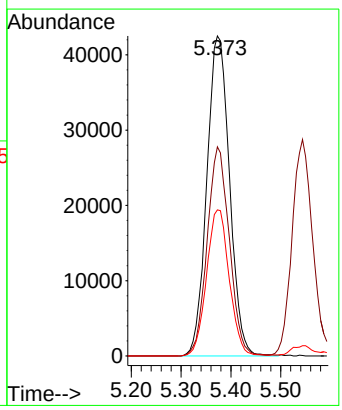
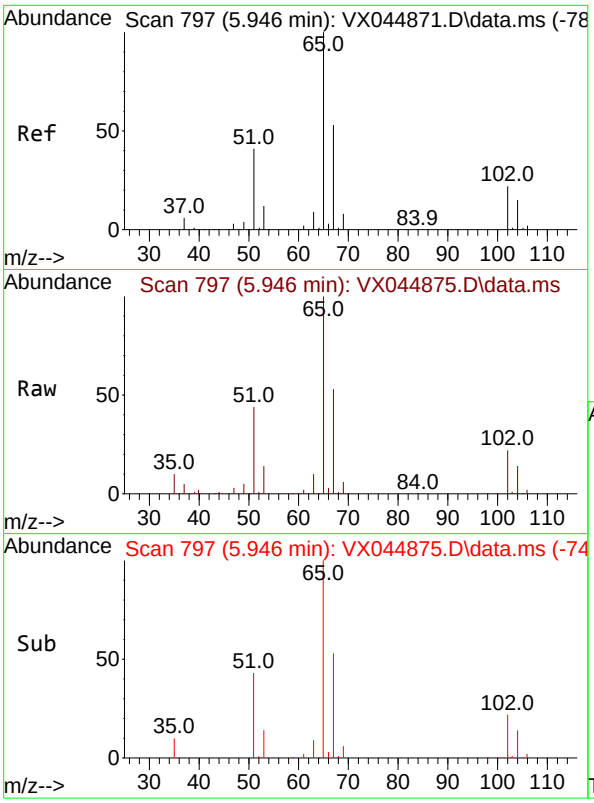


#32
1,1,1-Trichloroethane
Concen: 48.825 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 97 Resp: 134626

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.7	36.6	55.0

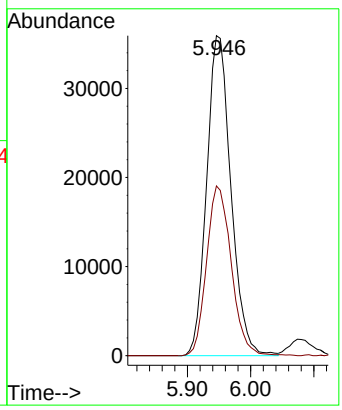




#33
1,2-Dichloroethane-d4
Concen: 48.061 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 65 Resp: 9563

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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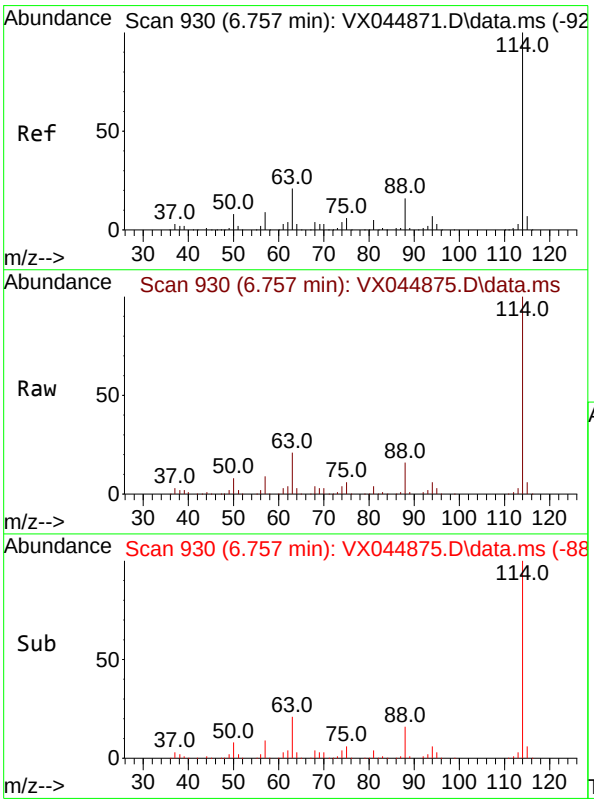
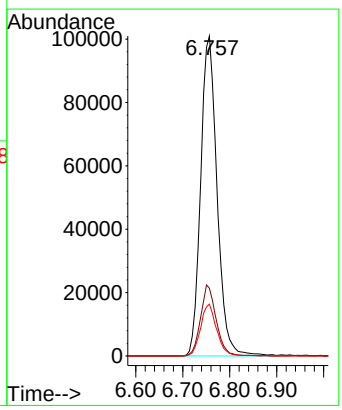
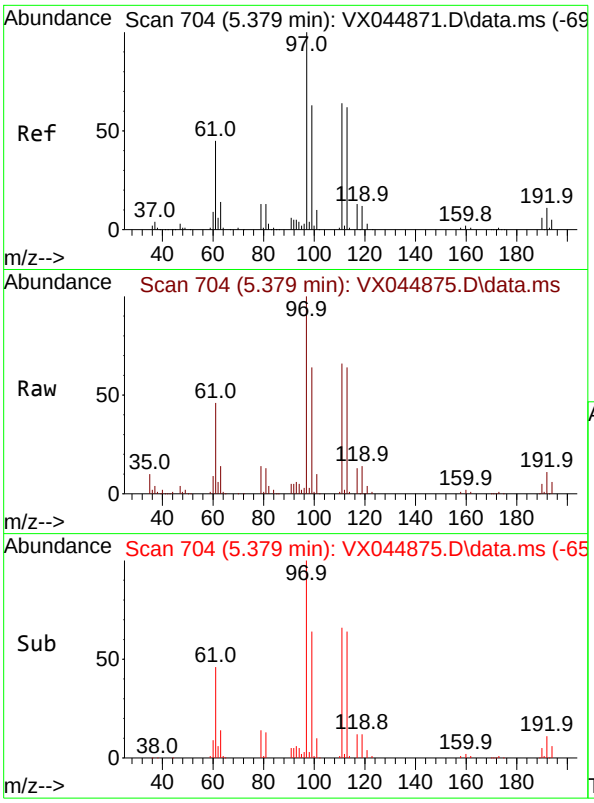


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:114 Resp: 245098

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.2	0.0	31.4

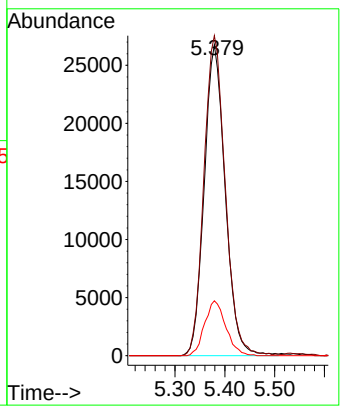




#35
Dibromofluoromethane
Concen: 49.173 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:113 Resp: 7836

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	17.9	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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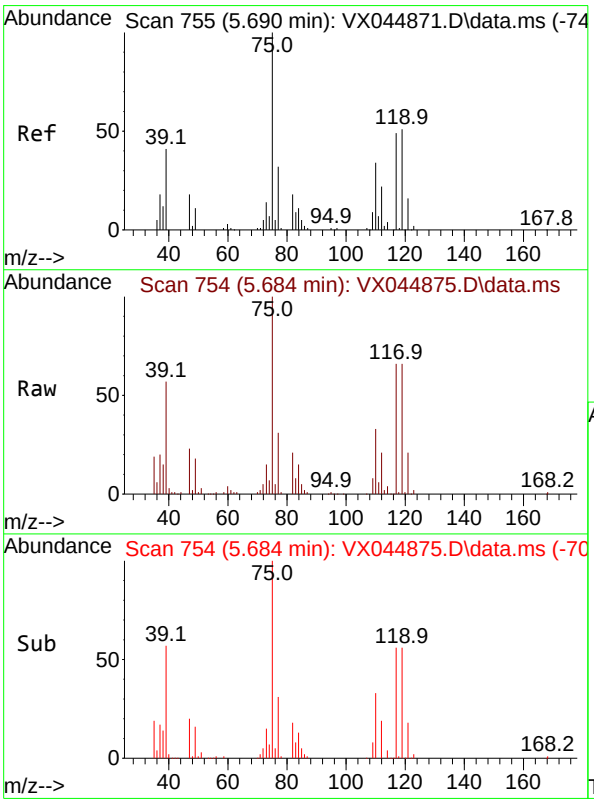
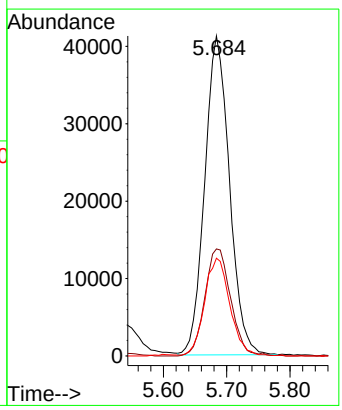
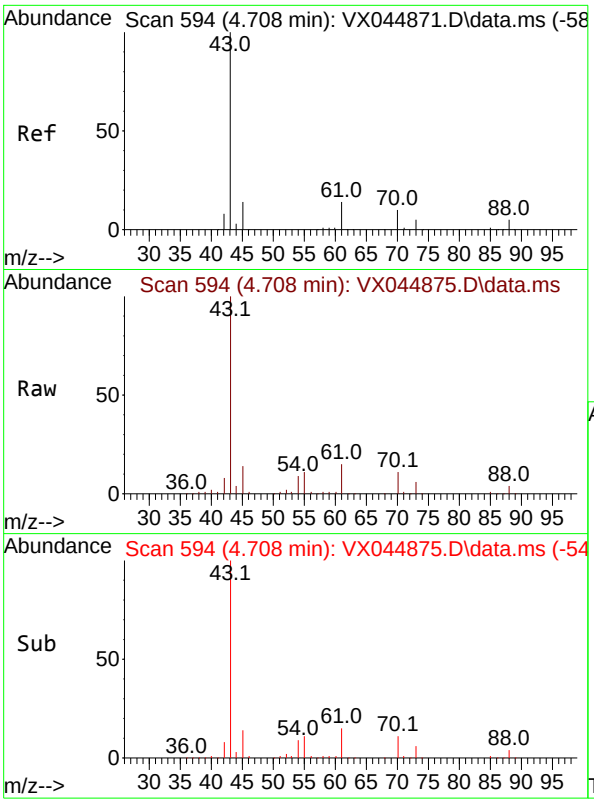


#36
1,1-Dichloropropene
Concen: 48.702 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 111968

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.2	51.6
77	31.6	24.6	37.0

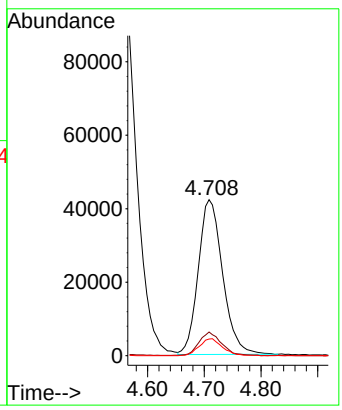




#37
Ethyl Acetate
Concen: 49.300 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 12607

Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.0	16.4
70	10.4	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

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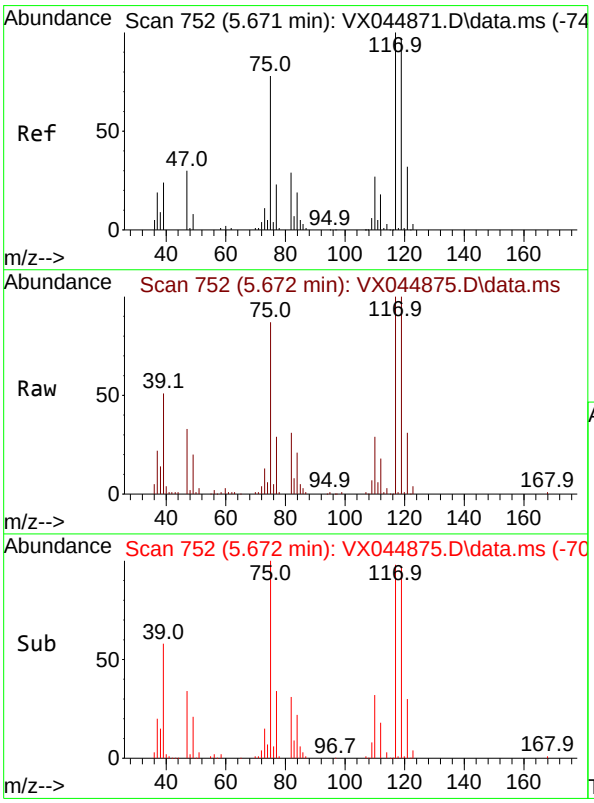
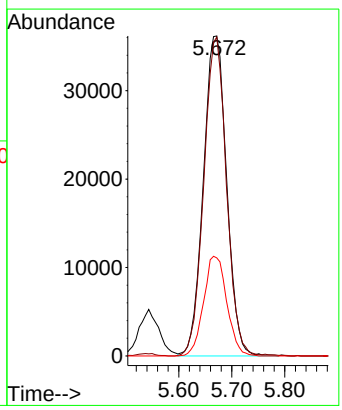
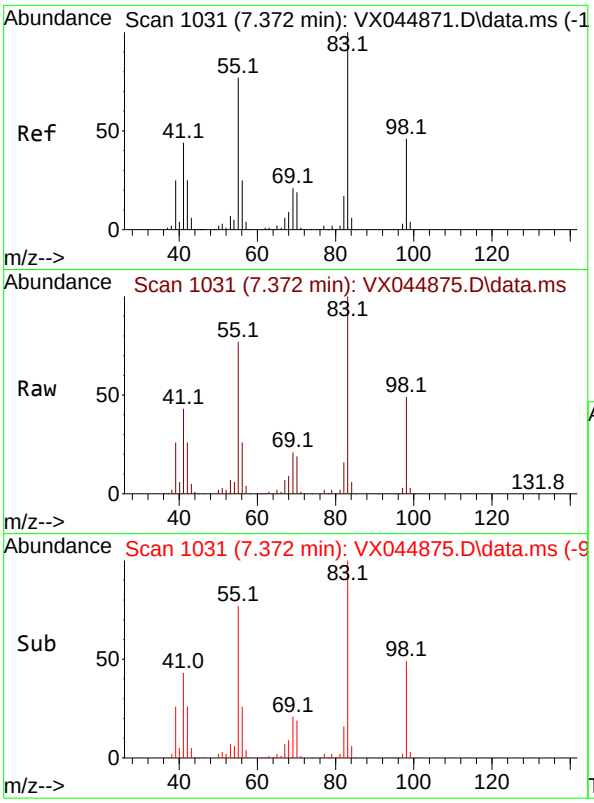


#38
Carbon Tetrachloride
Concen: 49.083 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 110581

Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.5	116.3
121	30.6	25.6	38.4

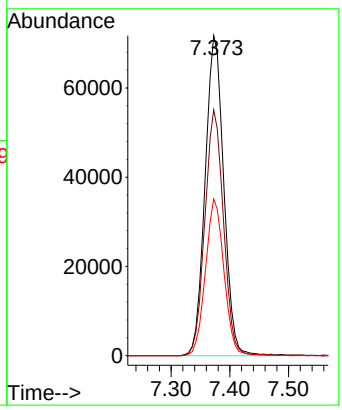




#39
Methylcyclohexane
Concen: 53.254 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 15828

Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.3	91.9
98	49.0	37.0	55.6



Instrument :
MSVOA_X
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ICVVX021025

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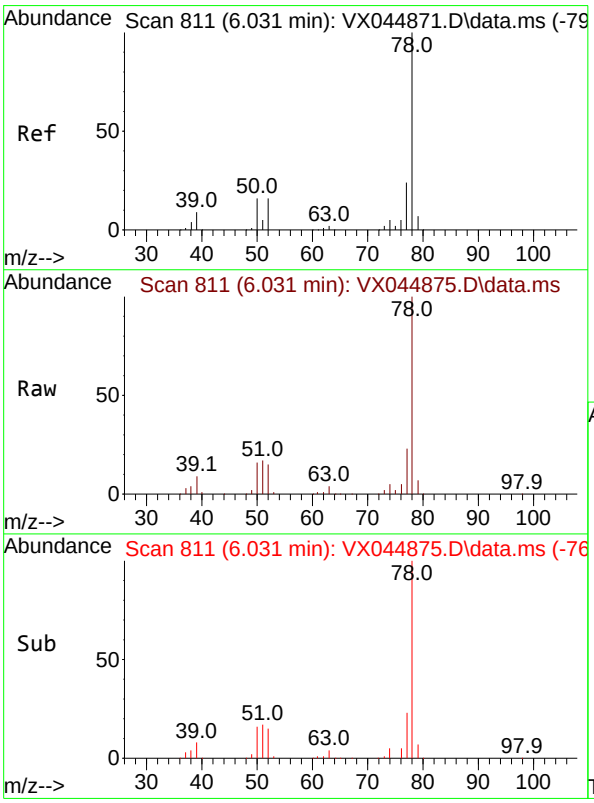
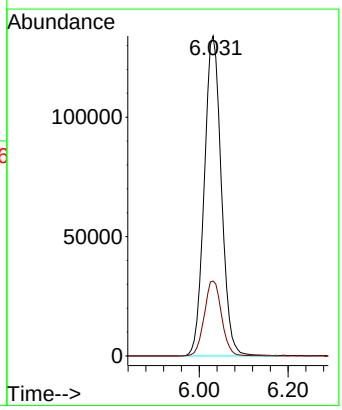
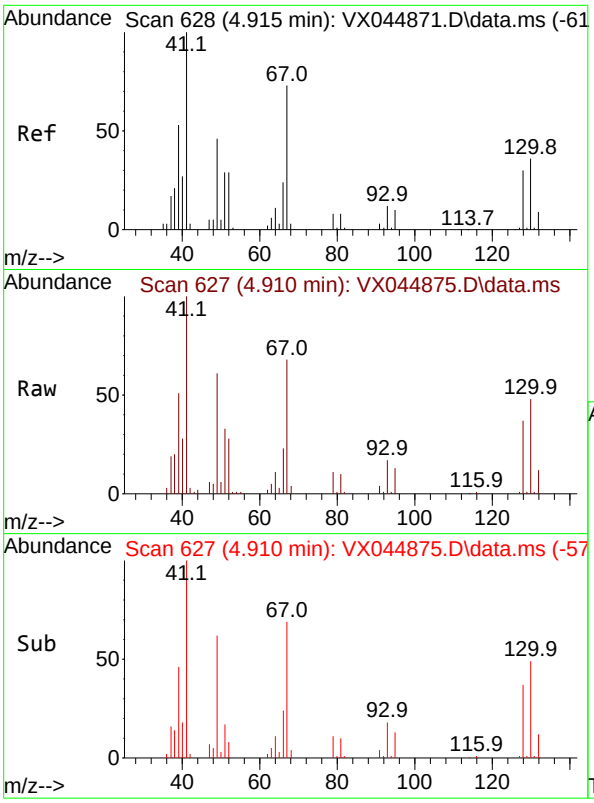


#40
Benzene
Concen: 49.919 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 78 Resp: 358365

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6

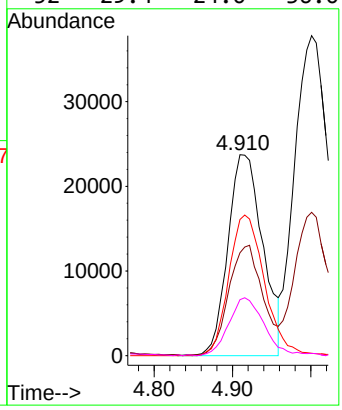




#41
Methacrylonitrile
Concen: 53.741 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 7355

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.1	64.7
67	71.9	57.0	85.6
52	29.4	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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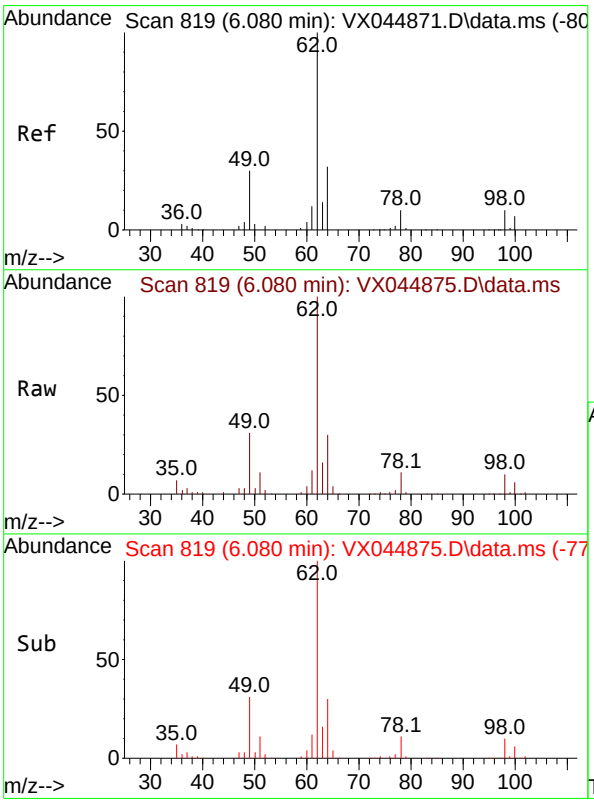
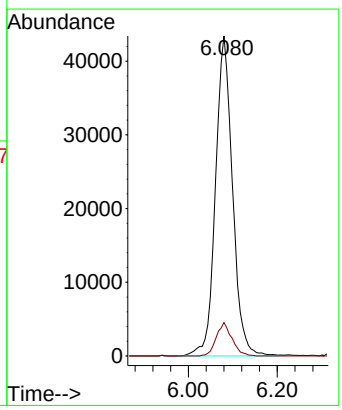
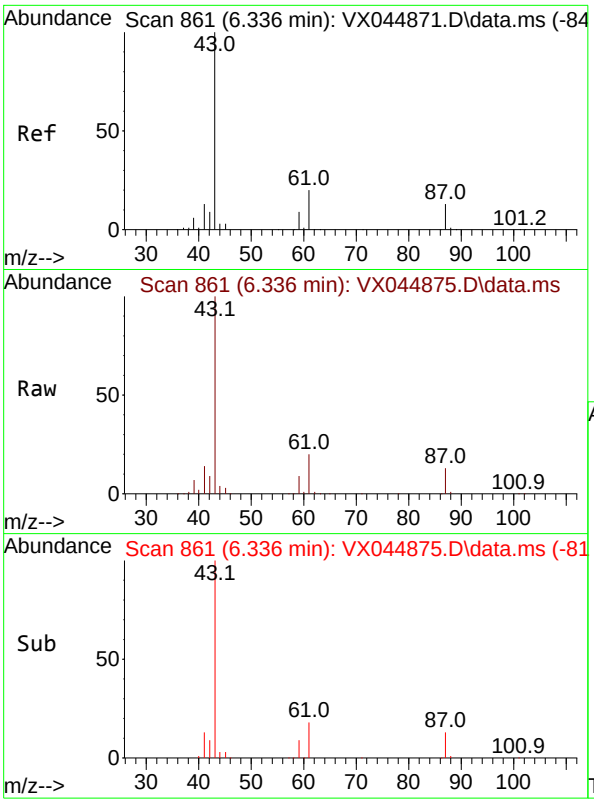


#42
1,2-Dichloroethane
Concen: 50.410 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 115339

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4

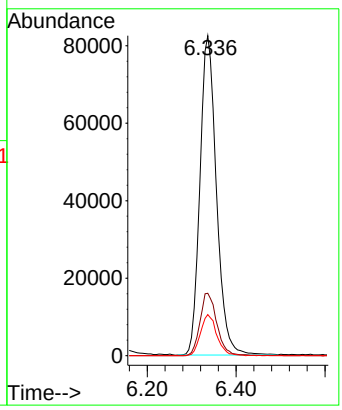




#43
Isopropyl Acetate
Concen: 51.798 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 21390

Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.8
87	12.6	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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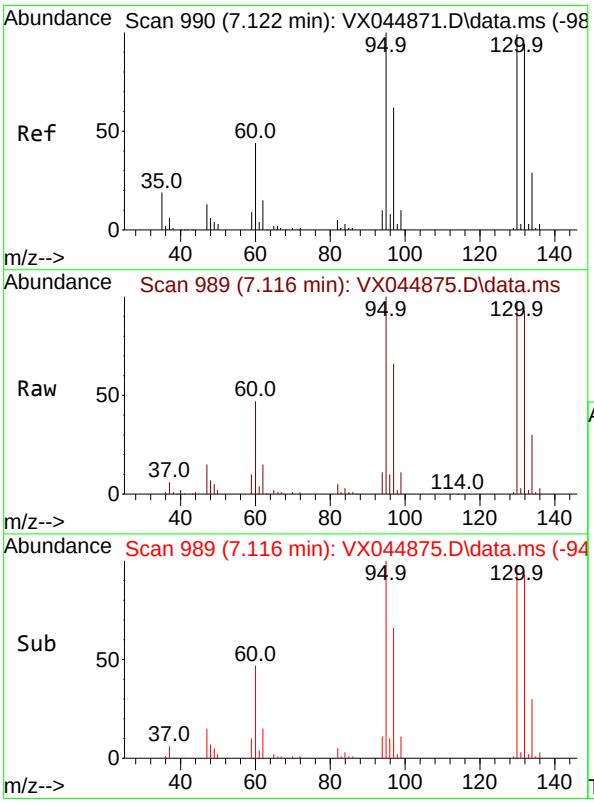
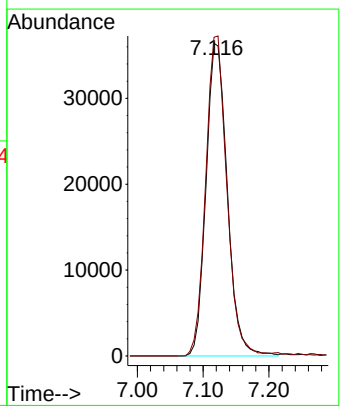
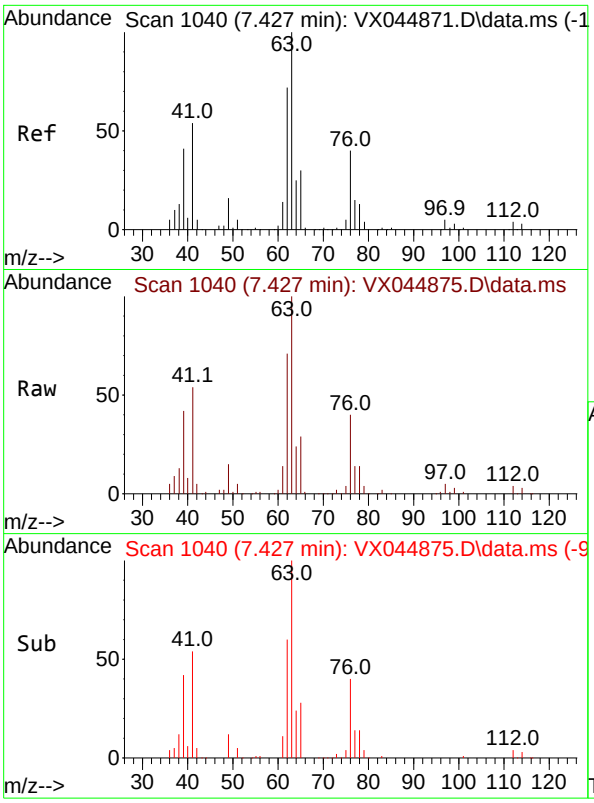


#44
Trichloroethene
Concen: 49.917 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:130 Resp: 81911

Ion	Ratio	Lower	Upper
130	100		
95	102.0	0.0	202.4

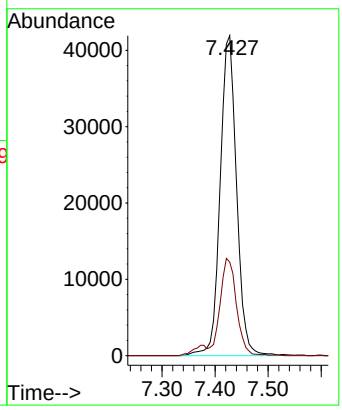




#45
1,2-Dichloropropane
Concen: 50.387 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 8999

Ion	Ratio	Lower	Upper
63	100		
65	29.3	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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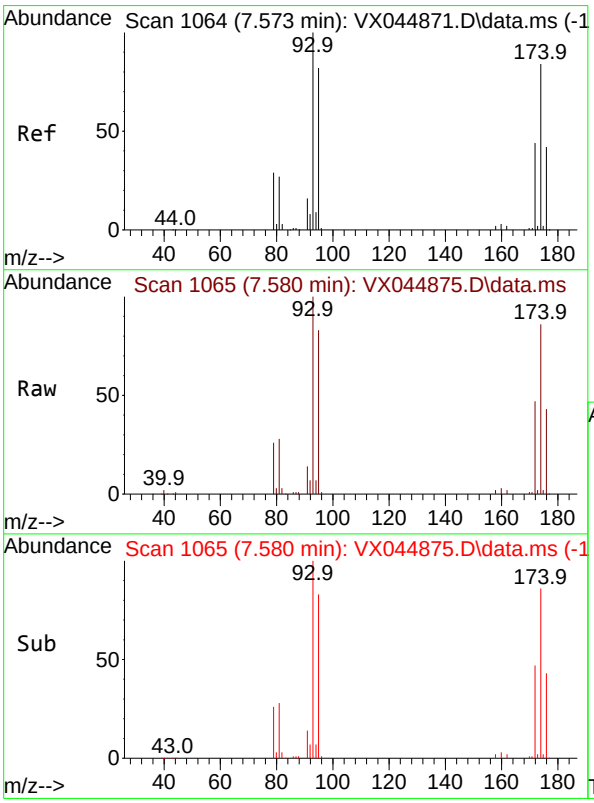
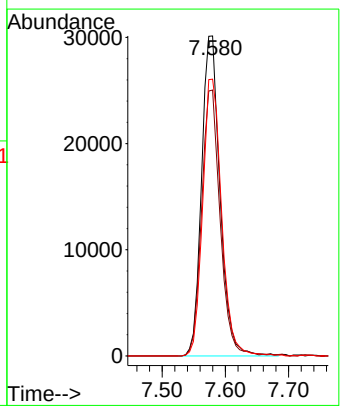
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

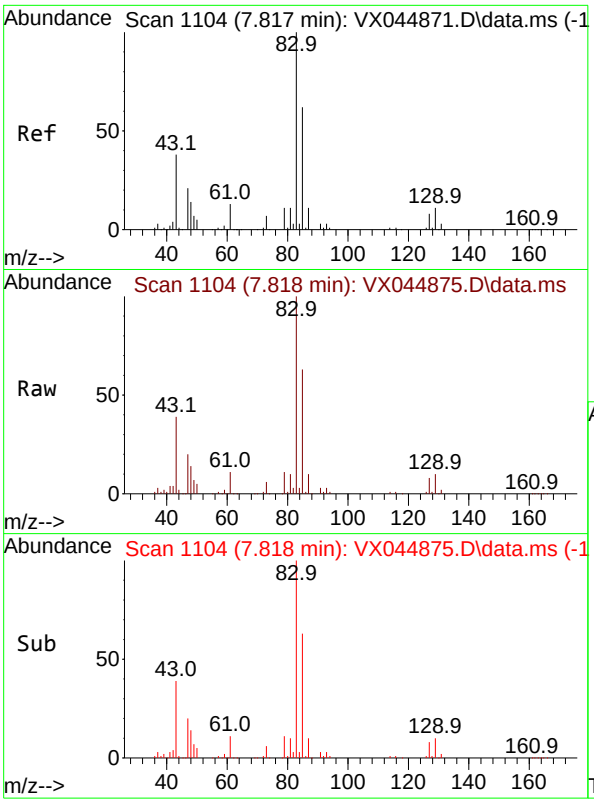


#46
Dibromomethane
Concen: 49.540 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 93 Resp: 61360

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.2	99.4
174	88.6	69.9	104.9

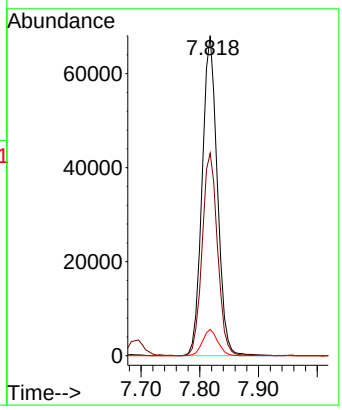




#47
Bromodichloromethane
Concen: 50.980 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 12226

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.0	75.0
127	8.2	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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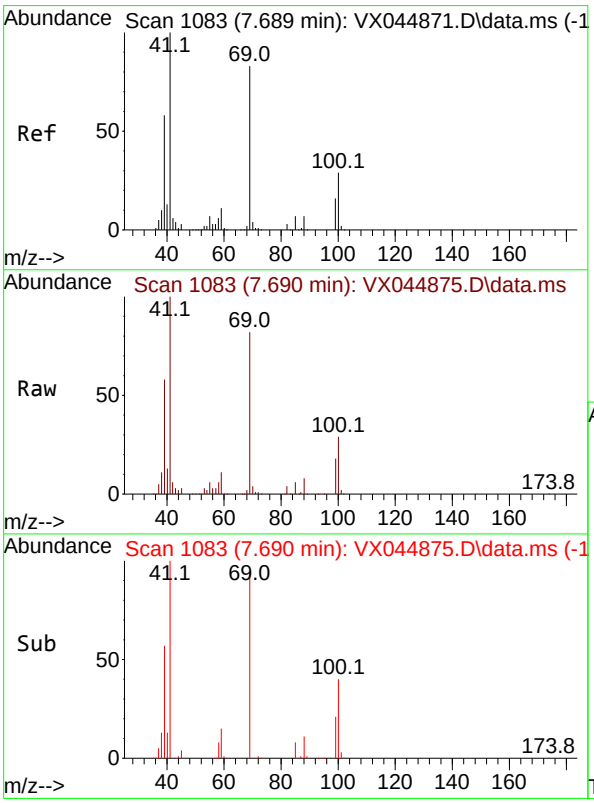
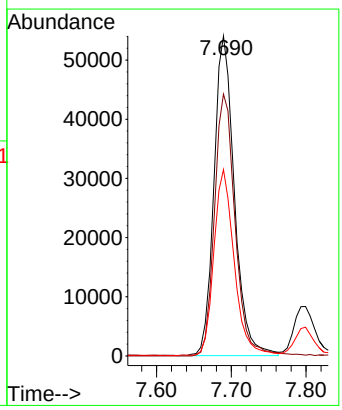
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

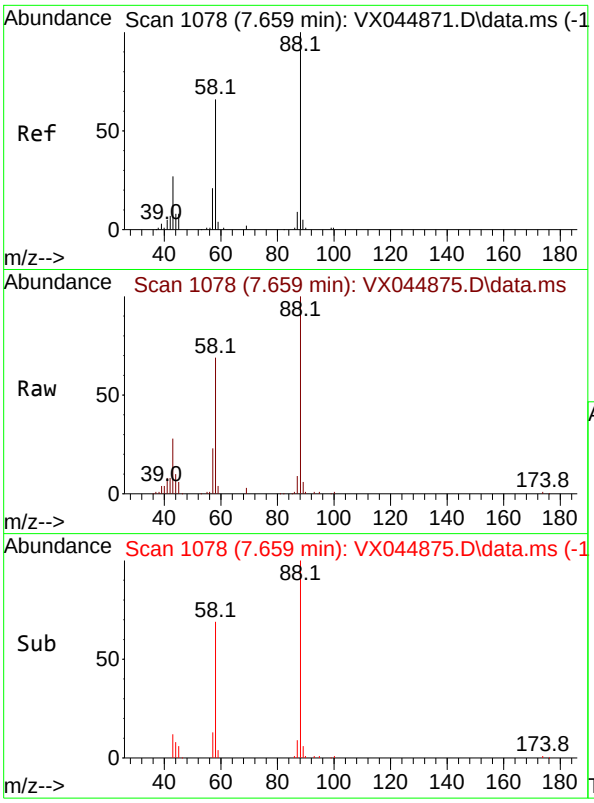


#48
Methyl methacrylate
Concen: 52.848 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 102900

Ion	Ratio	Lower	Upper
41	100		
69	83.2	65.8	98.8
39	57.8	46.4	69.6

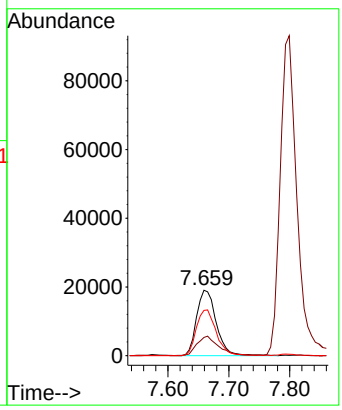




#49
1,4-Dioxane
Concen: 1021.138 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 88 Resp: 4265

Ion	Ratio	Lower	Upper
88	100		
43	32.2	26.6	39.8
58	71.2	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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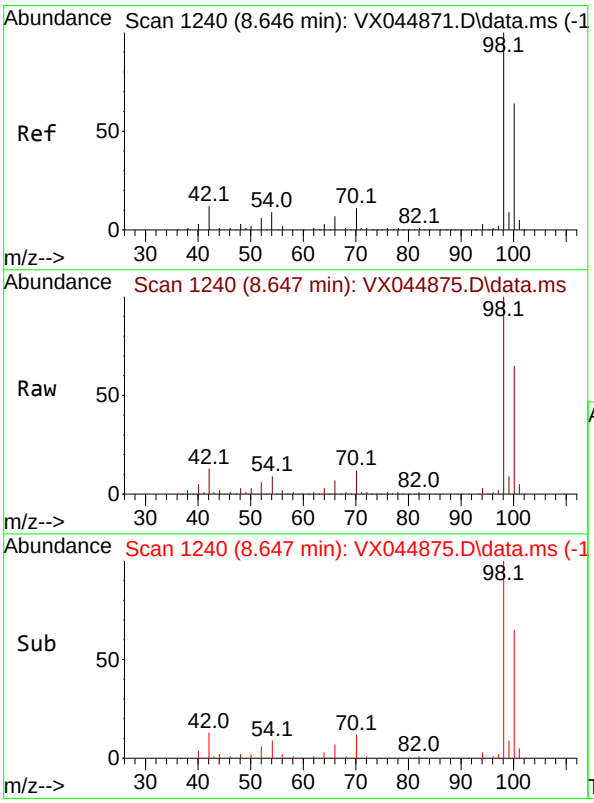
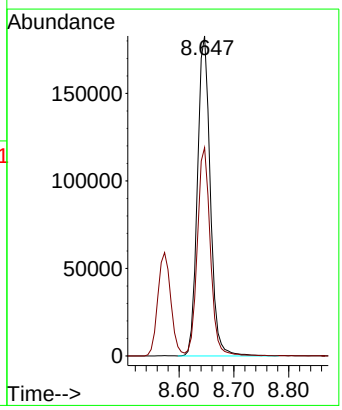
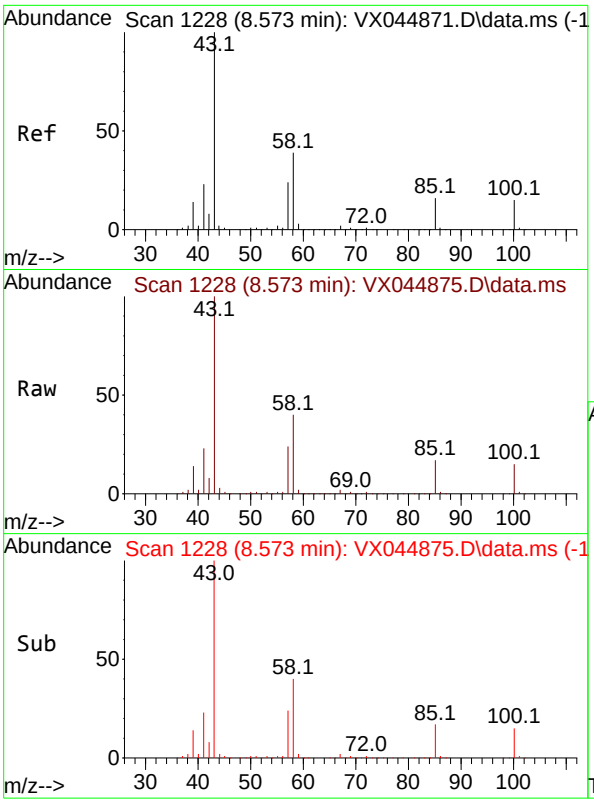


#50
Toluene-d8
Concen: 49.649 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 98 Resp: 299178

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1

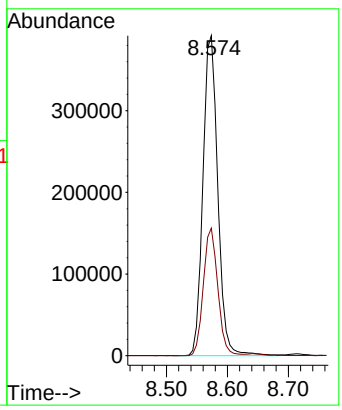




#51
4-Methyl-2-Pentanone
Concen: 265.112 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 66556

Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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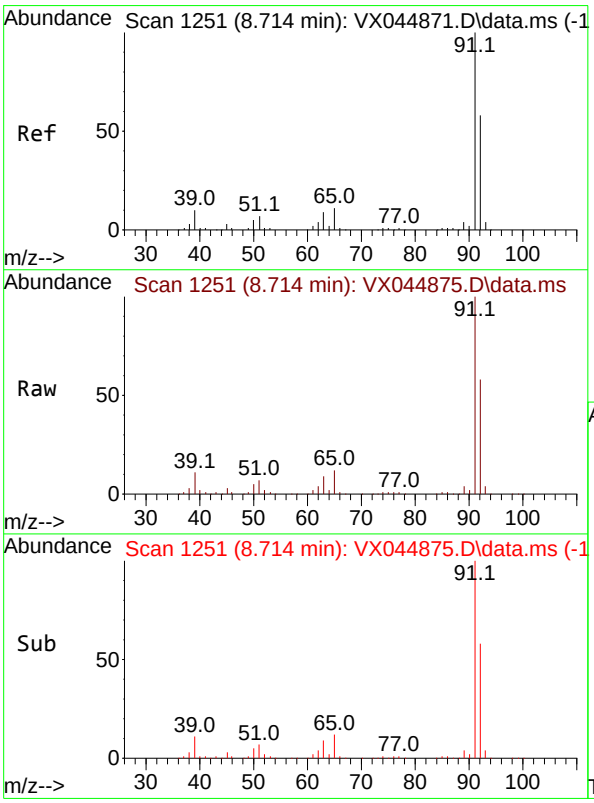
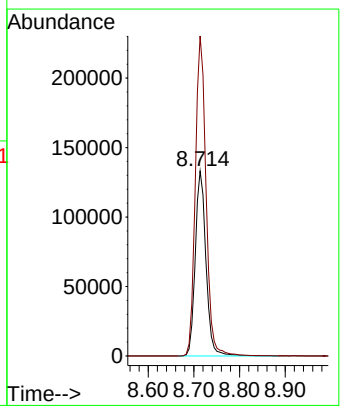
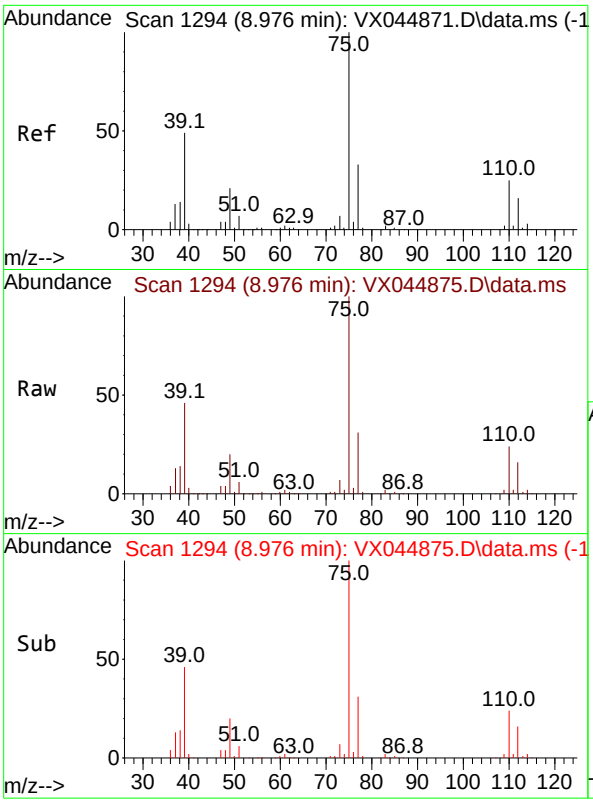


#52
Toluene
Concen: 50.680 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 92 Resp: 216682

Ion	Ratio	Lower	Upper
92	100		
91	173.4	137.4	206.2

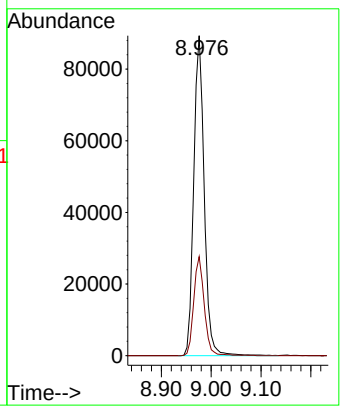




#53
t-1,3-Dichloropropene
Concen: 53.731 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 13040

Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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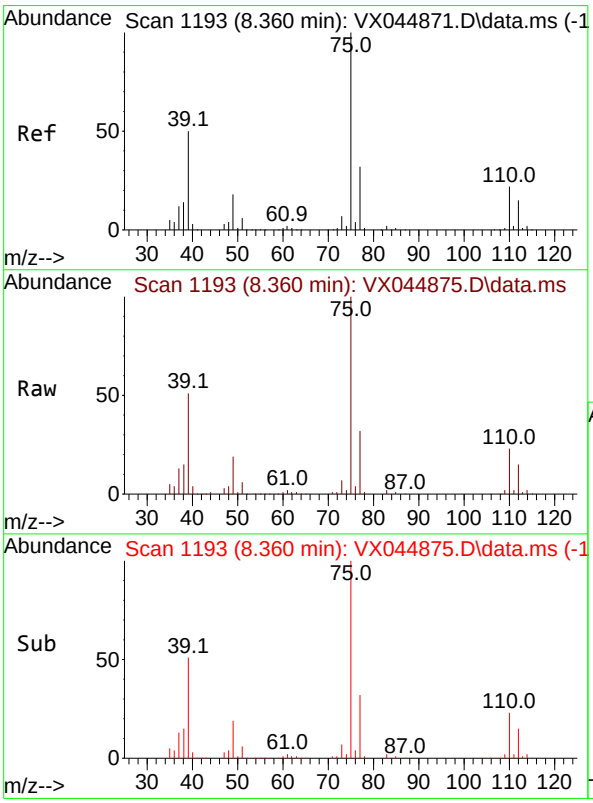
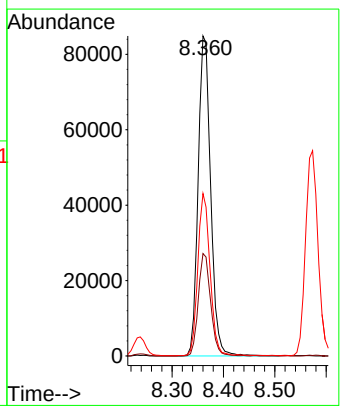
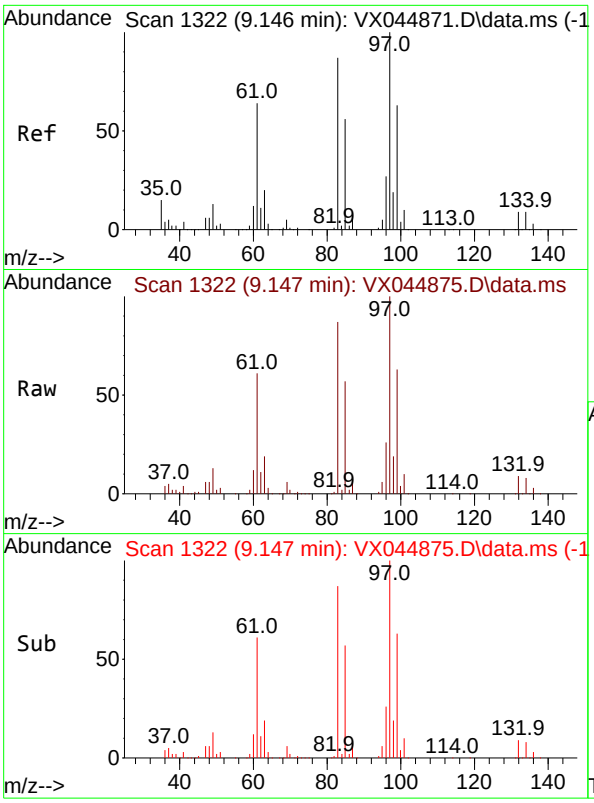


#54
cis-1,3-Dichloropropene
Concen: 52.986 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 143379

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.3	37.9
39	50.6	40.0	60.0

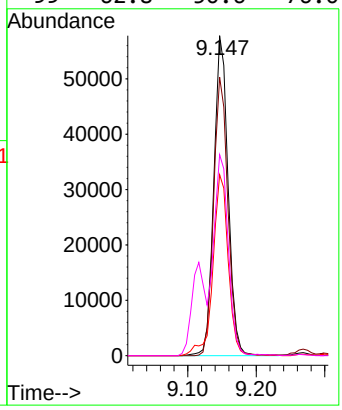




#55
1,1,2-Trichloroethane
Concen: 50.811 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 97 Resp: 8351

Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.8	104.6
85	56.6	44.8	67.2
99	62.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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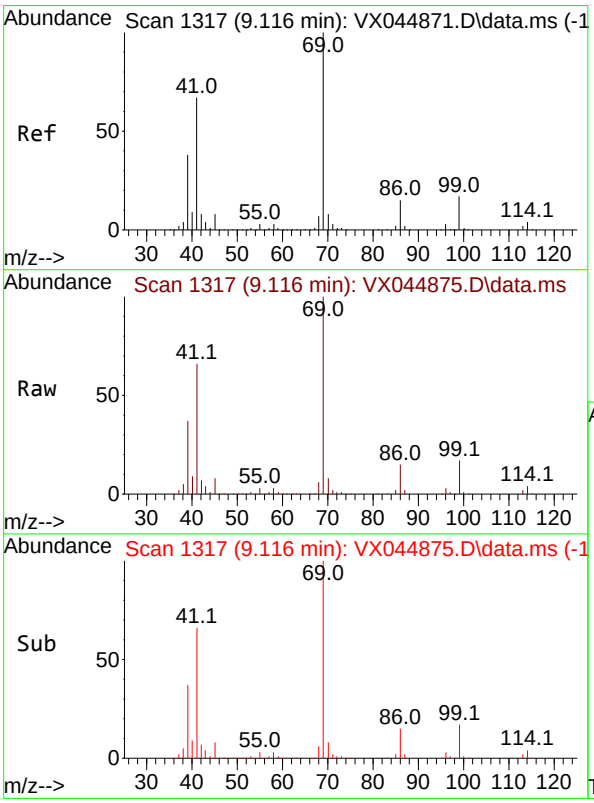
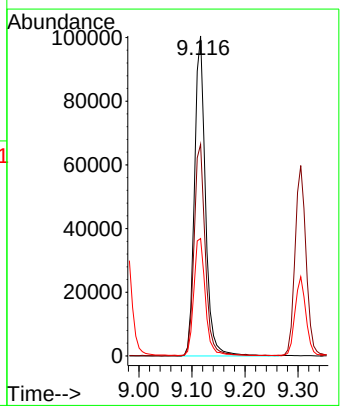
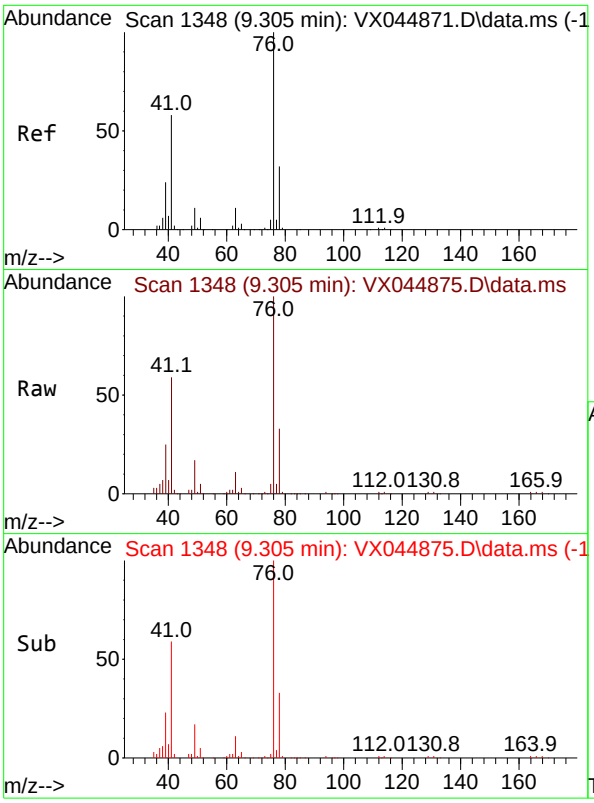


#56
Ethyl methacrylate
Concen: 54.068 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 69 Resp: 143524

Ion	Ratio	Lower	Upper
69	100		
41	67.8	55.2	82.8
39	38.4	30.8	46.2

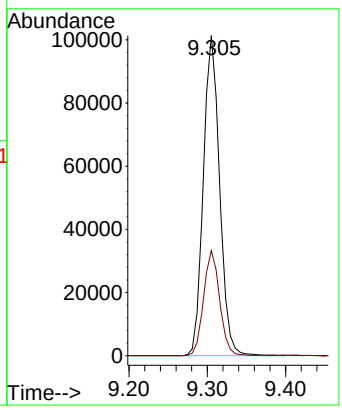




#57
1,3-Dichloropropane
Concen: 50.852 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 76 Resp: 14623

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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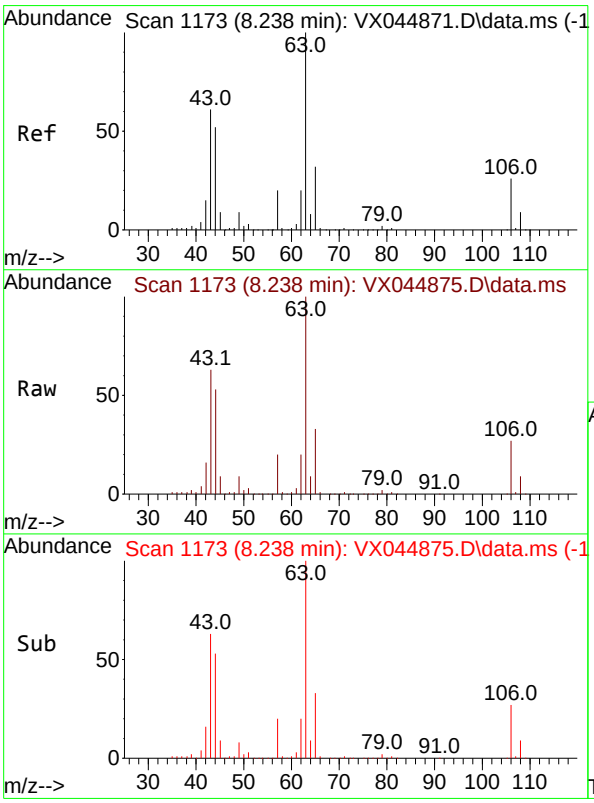
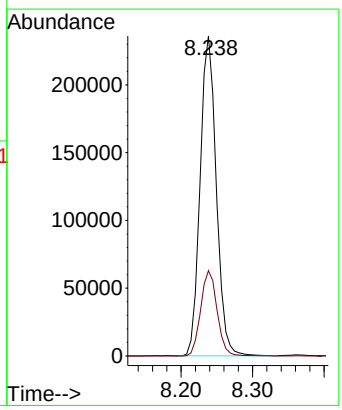
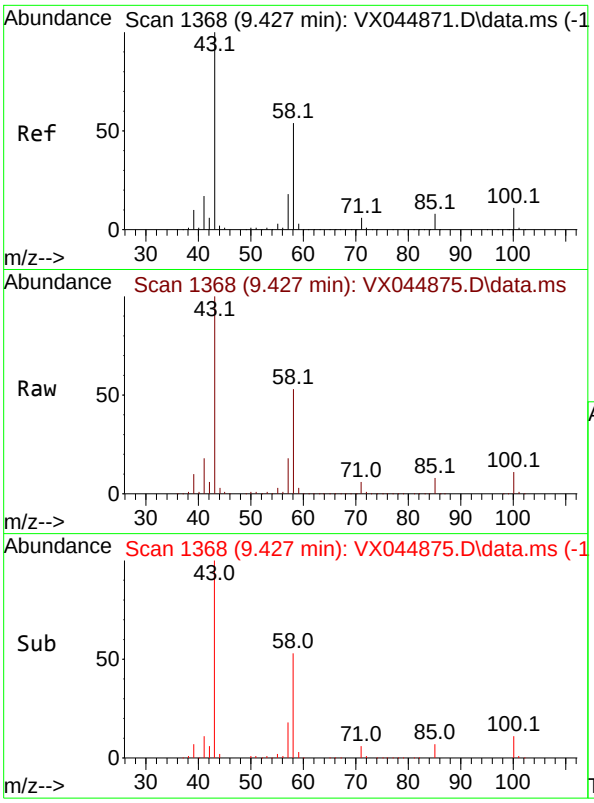


#58
2-Chloroethyl Vinyl ether
Concen: 284.352 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 370622

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.3	31.9





#59
2-Hexanone
Concen: 269.951 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 48829

Ion	Ratio	Lower	Upper
43	100		
58	54.5	27.5	82.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
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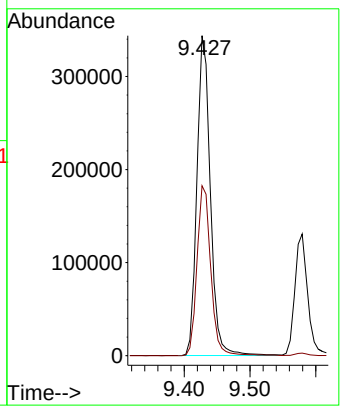
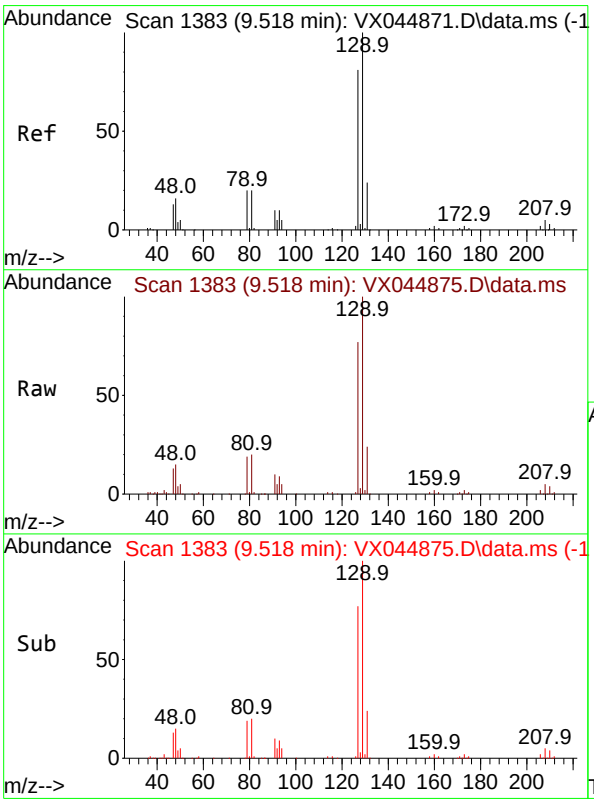
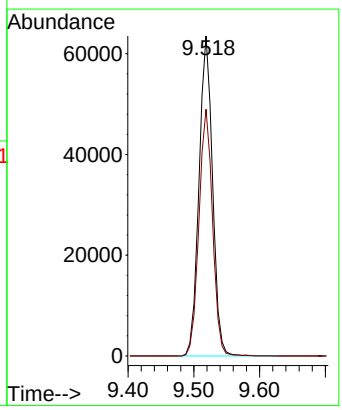


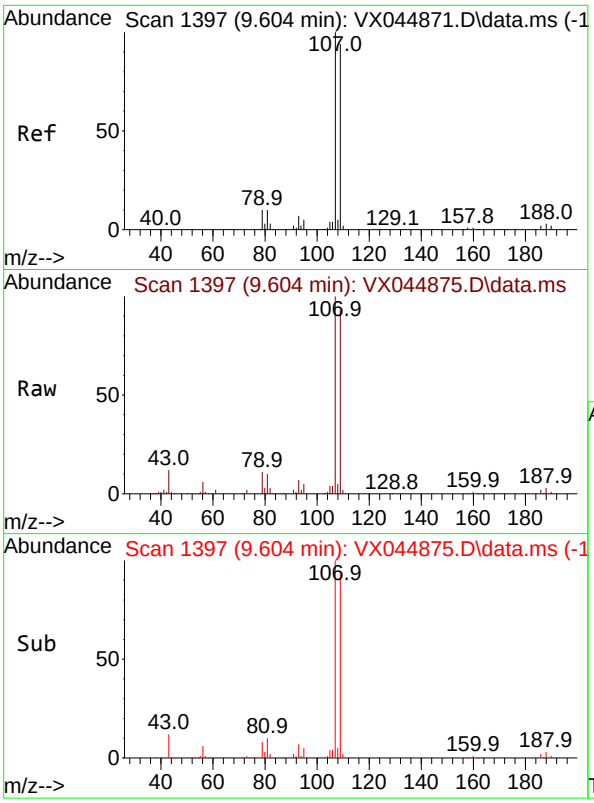


#60
Dibromochloromethane
Concen: 51.673 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:129 Resp: 90826

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.3

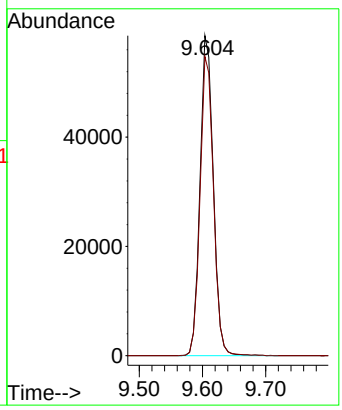




#61
1,2-Dibromoethane
Concen: 51.436 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:107 Resp: 8568

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

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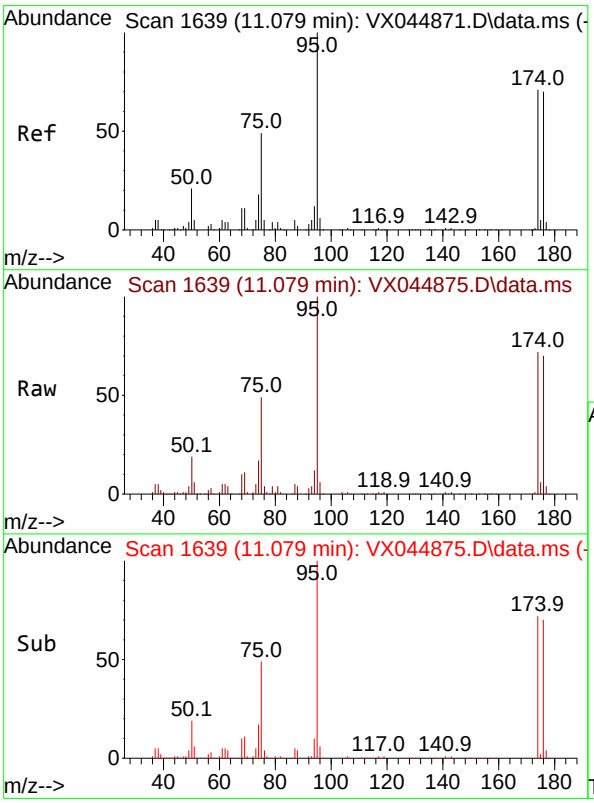
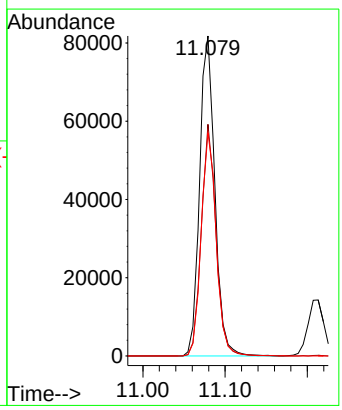
Supervised By :Mahesh Dadoda 02/11/2025

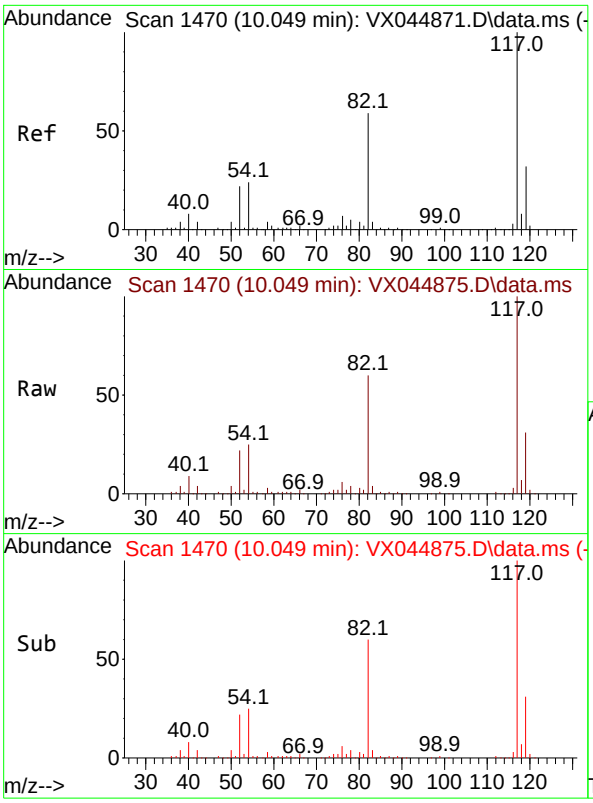


#62
4-Bromofluorobenzene
Concen: 51.786 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 95 Resp: 105201

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	142.6
176	68.9	0.0	141.6

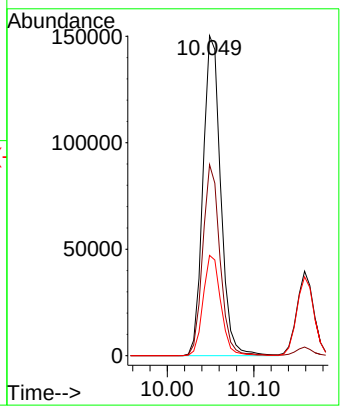




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 21324

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.5	71.3
119	31.3	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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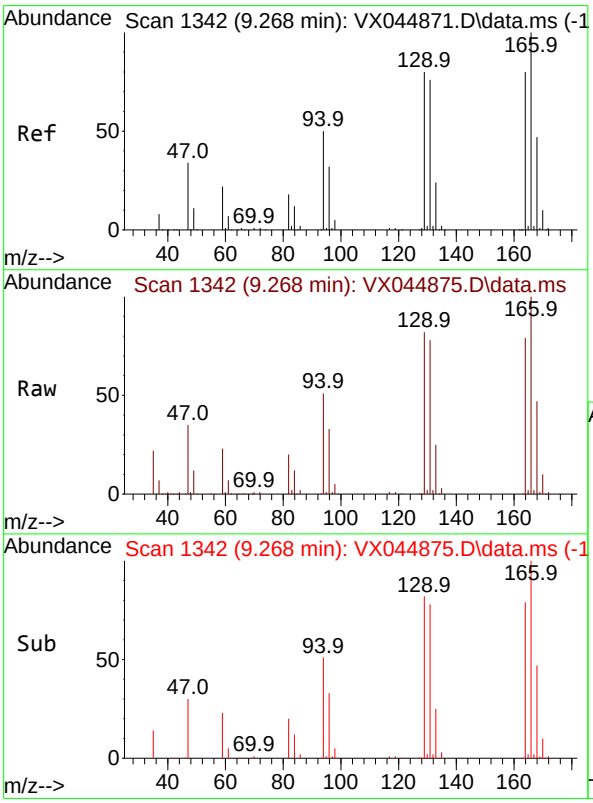
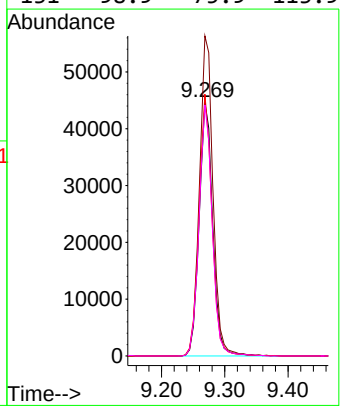
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

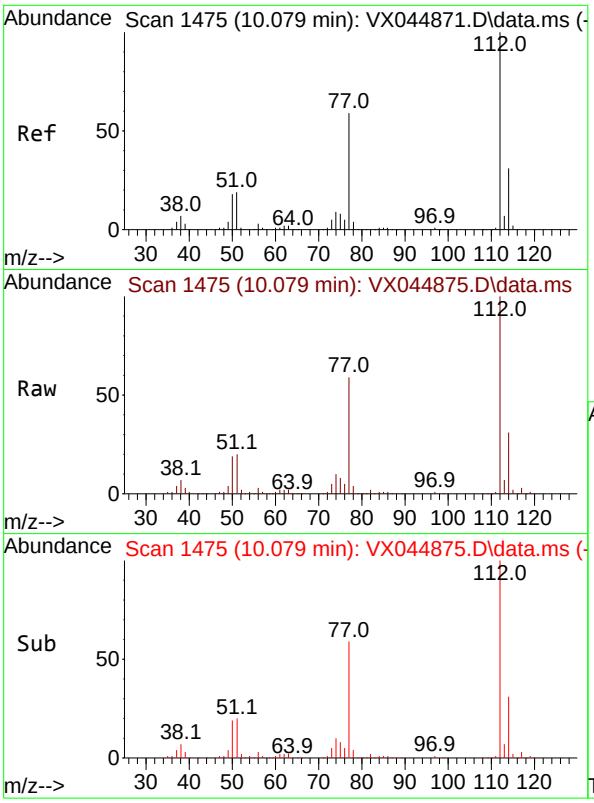


#64
Tetrachloroethene
Concen: 49.424 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:164 Resp: 66468

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.4	150.6
129	103.1	79.9	119.9
131	98.9	75.9	113.9

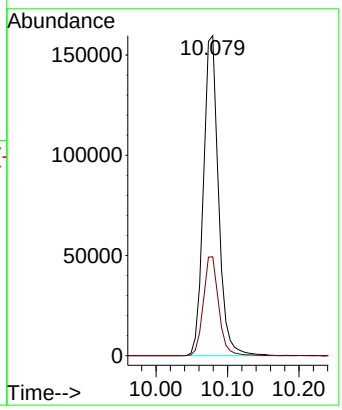




#65
Chlorobenzene
Concen: 50.952 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:112 Resp: 23337

Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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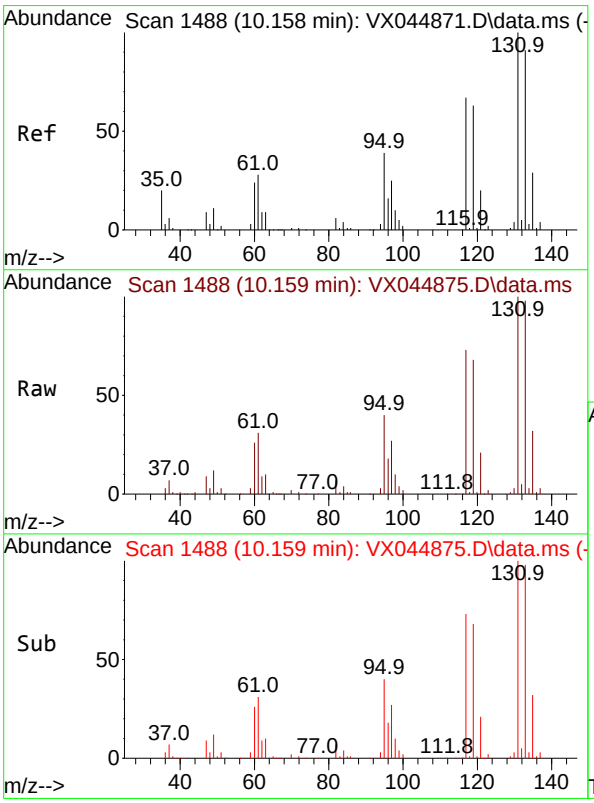
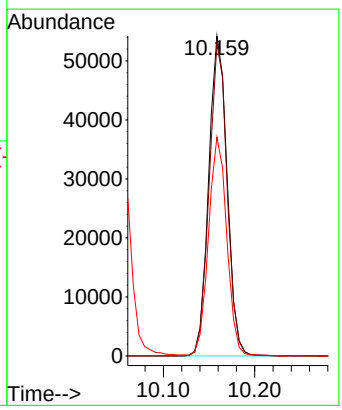
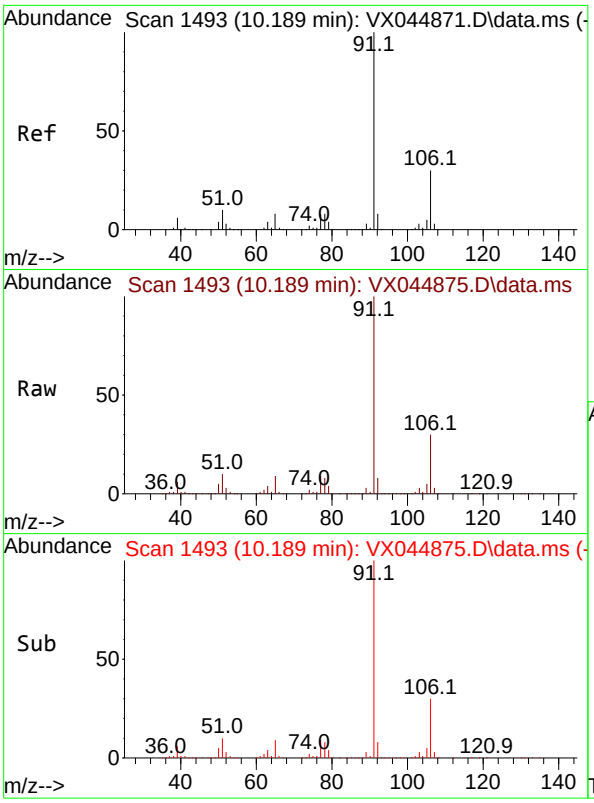


#66
1,1,1,2-Tetrachloroethane
Concen: 51.205 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:131 Resp: 75488

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.1	141.3
119	68.2	33.6	100.6

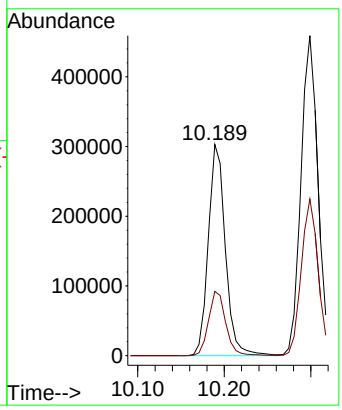




#67
Ethyl Benzene
Concen: 51.415 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 41557

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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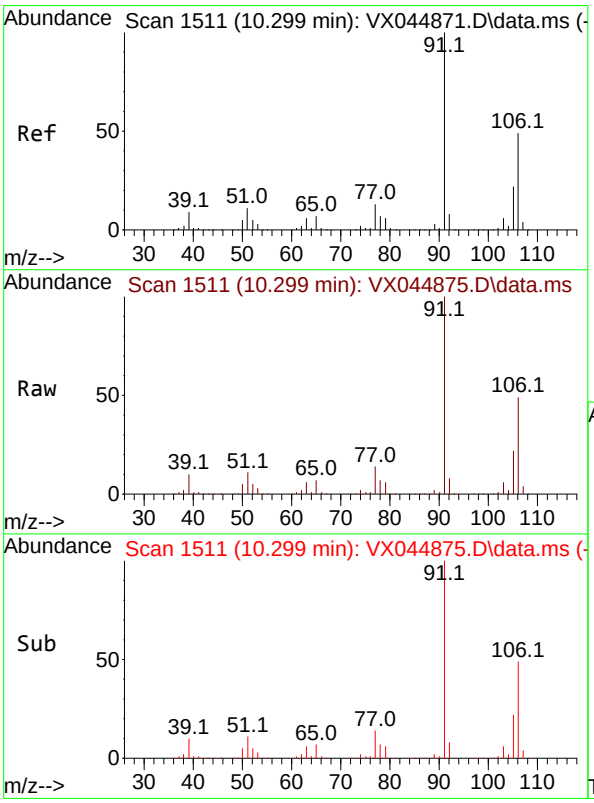
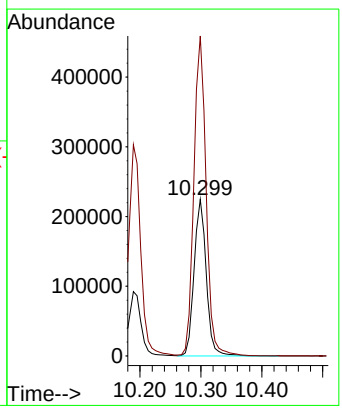
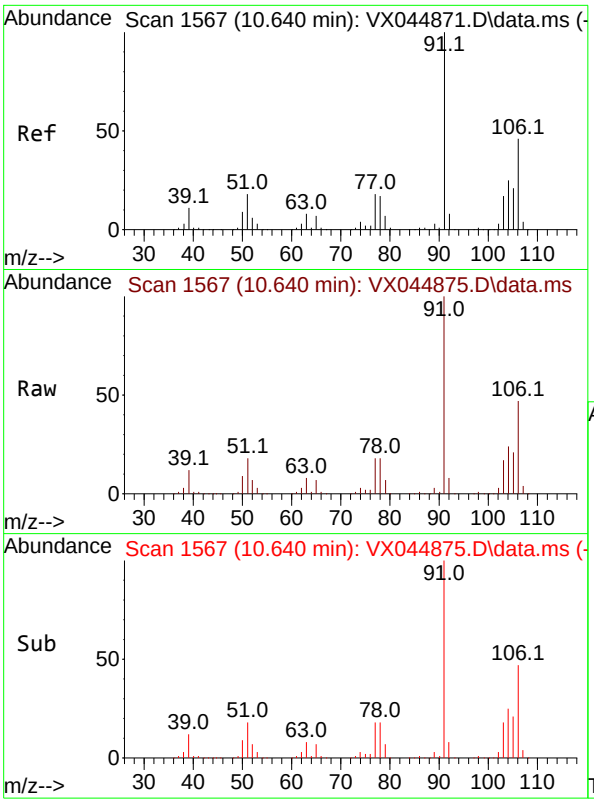


#68
m/p-Xylenes
Concen: 104.282 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:106 Resp: 310925

Ion	Ratio	Lower	Upper
106	100		
91	205.2	164.3	246.5

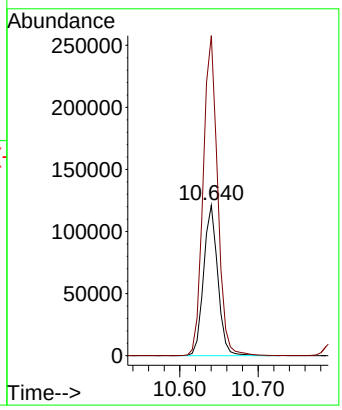




#69
o-Xylene
Concen: 50.804 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:106 Resp: 15199

Ion	Ratio	Lower	Upper
106	100		
91	217.1	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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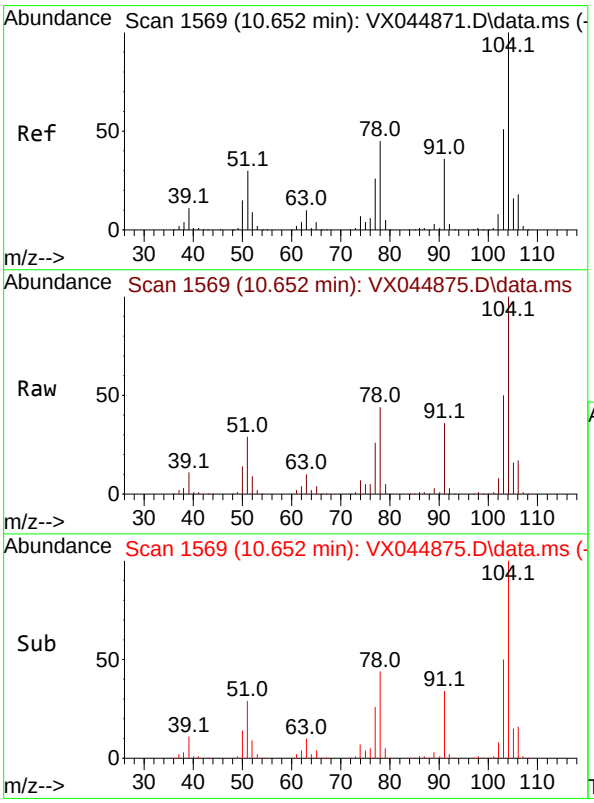
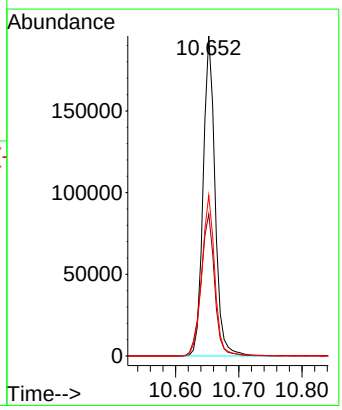
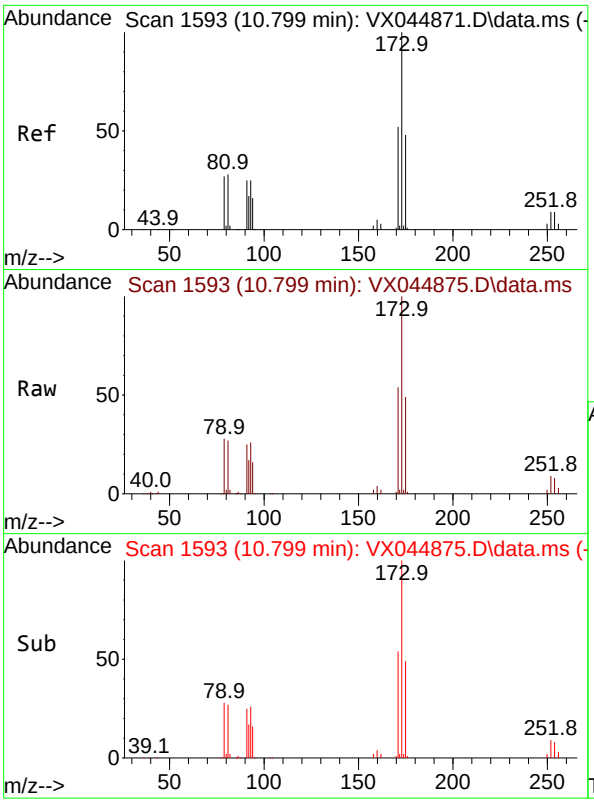


#70
Styrene
Concen: 53.521 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:104 Resp: 257972

Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.5	60.7
103	54.5	43.6	65.4

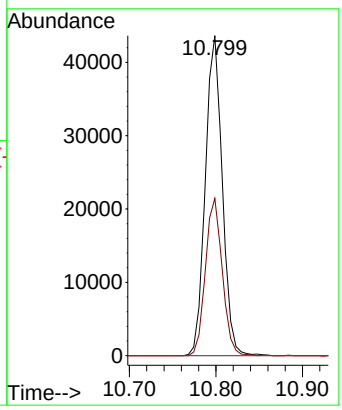




#71
Bromoform
Concen: 53.997 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:173 Resp: 5940

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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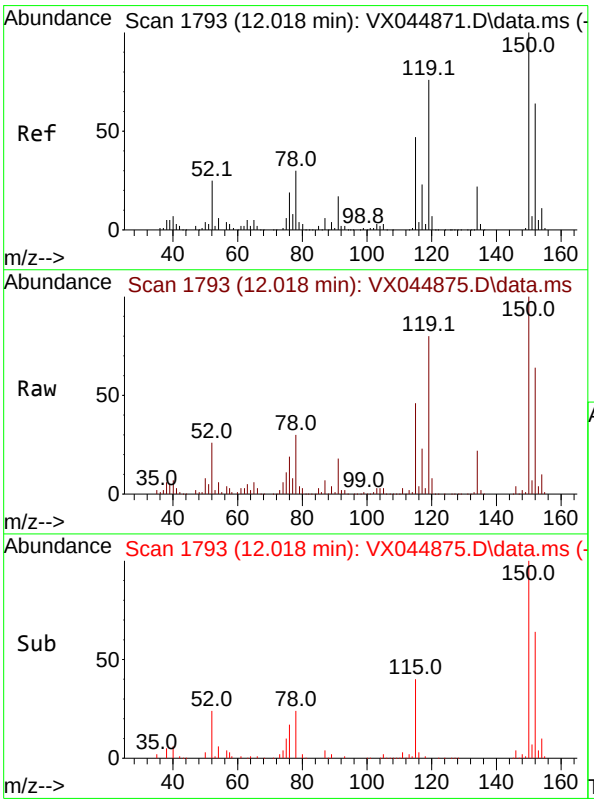
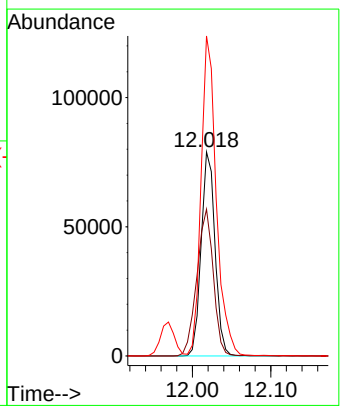
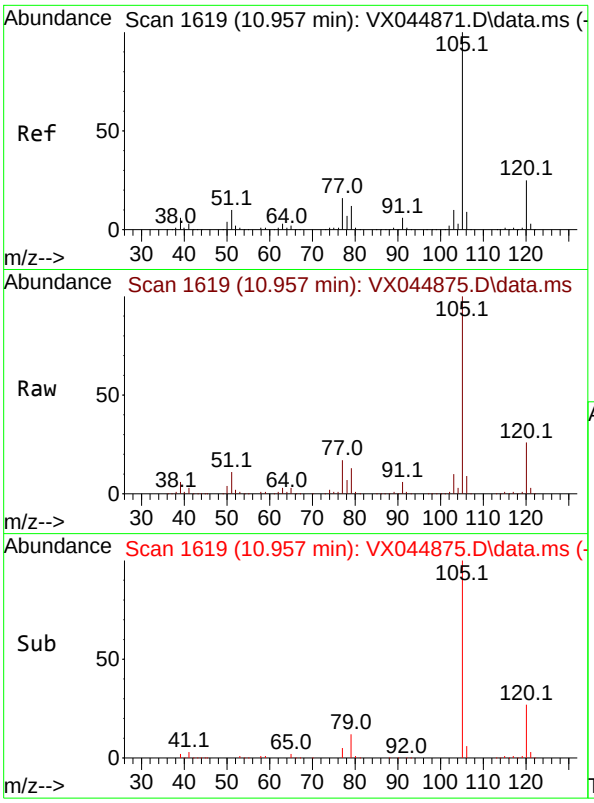


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:152 Resp: 97087

Ion	Ratio	Lower	Upper
152	100		
115	85.5	43.4	130.1
150	171.8	0.0	350.4

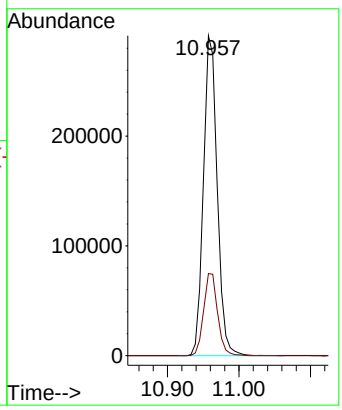




#73
Isopropylbenzene
Concen: 49.921 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 39024

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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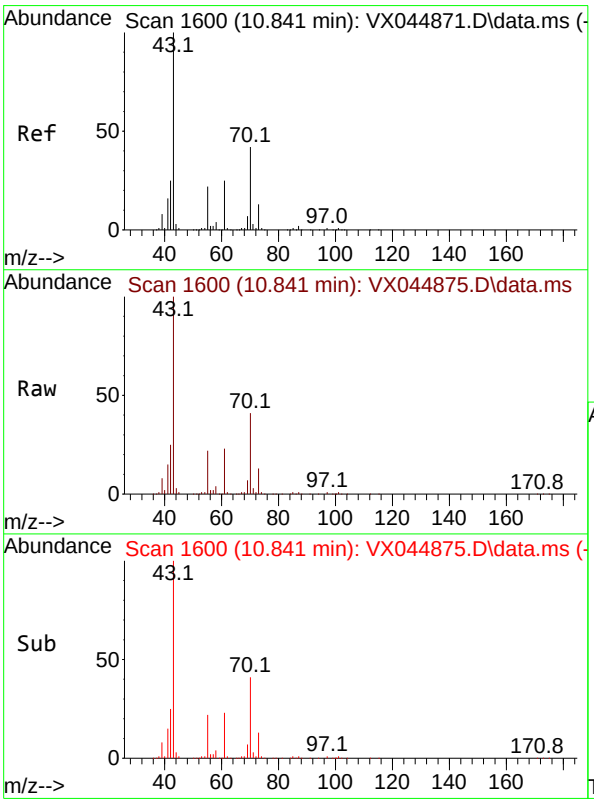
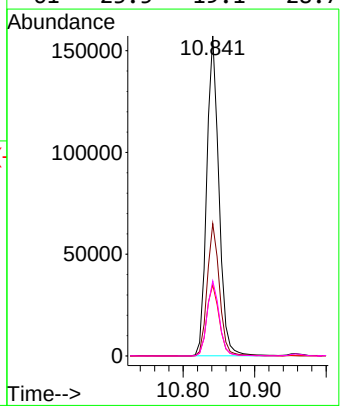
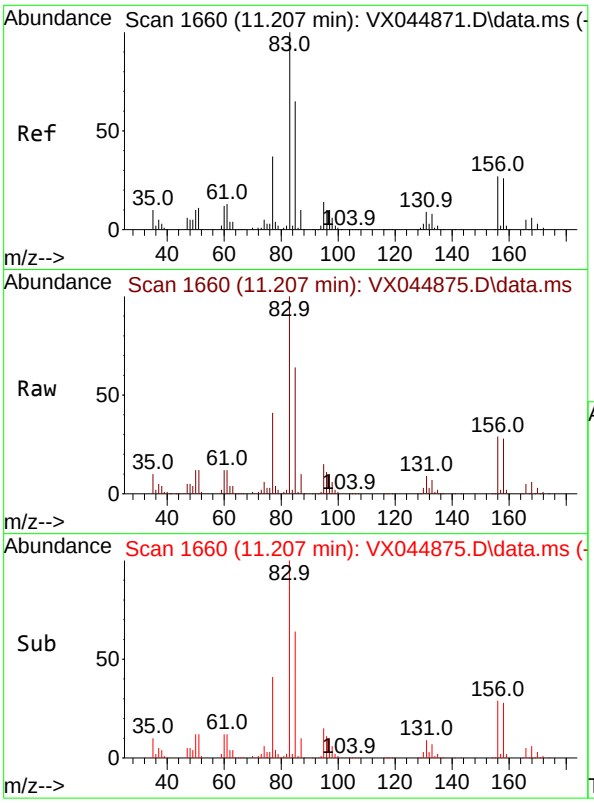


#74
N-amyl acetate
Concen: 52.621 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 186145

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.7	50.5
55	22.8	18.6	27.8
61	23.5	19.1	28.7

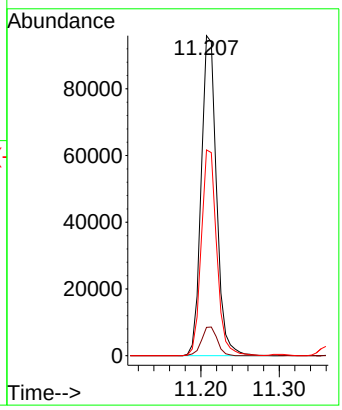




#75
1,1,2,2-Tetrachloroethane
Concen: 48.331 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 12982

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.5
85	65.1	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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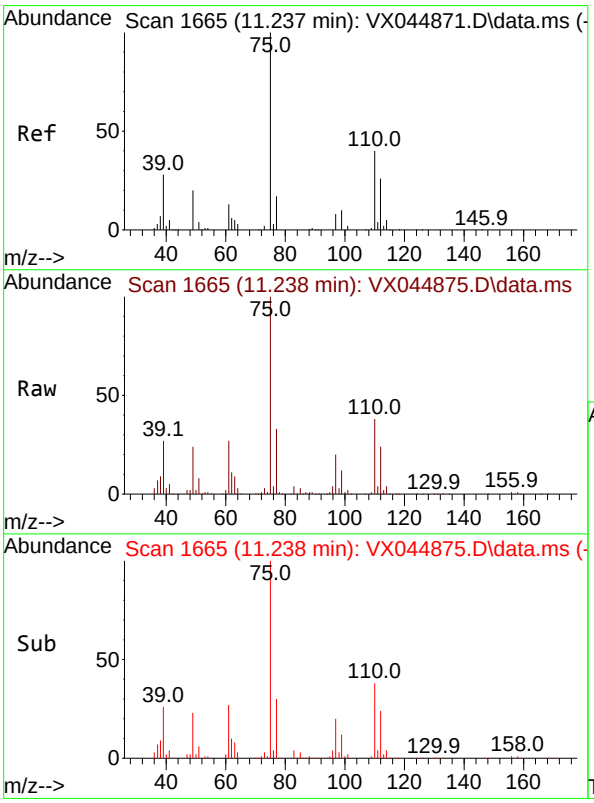
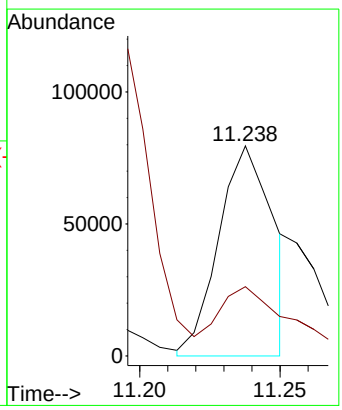
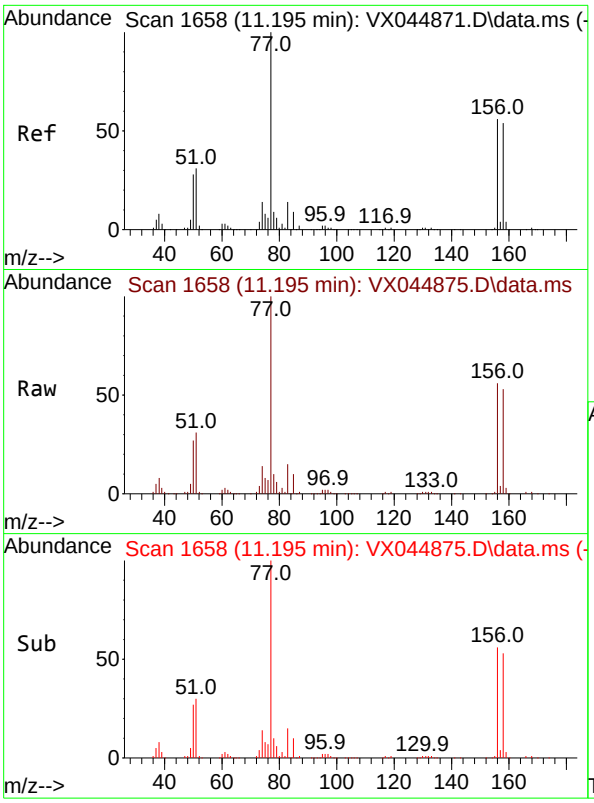


#76
1,2,3-Trichloropropane
Concen: 49.659 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 106893

Ion	Ratio	Lower	Upper
75	100		
77	43.7	21.9	65.7

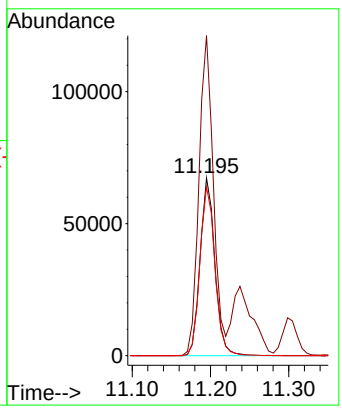




#77
Bromobenzene
Concen: 49.725 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:156 Resp: 8812

Ion	Ratio	Lower	Upper
156	100		
77	176.3	88.4	265.3
158	96.7	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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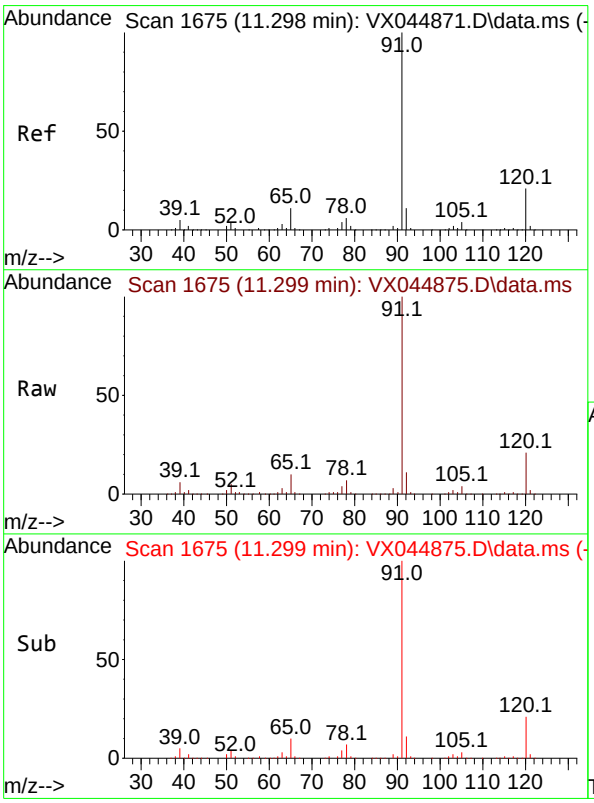
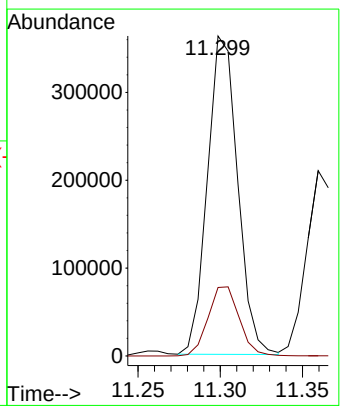
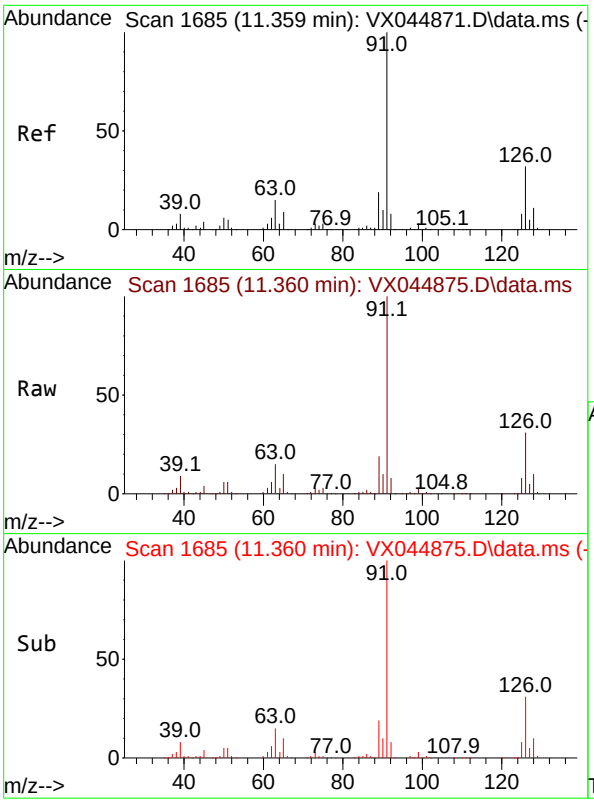


#78
n-propylbenzene
Concen: 51.386 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 463655

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3

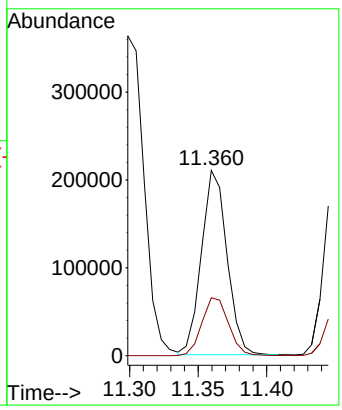




#79
2-Chlorotoluene
Concen: 49.065 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 27209

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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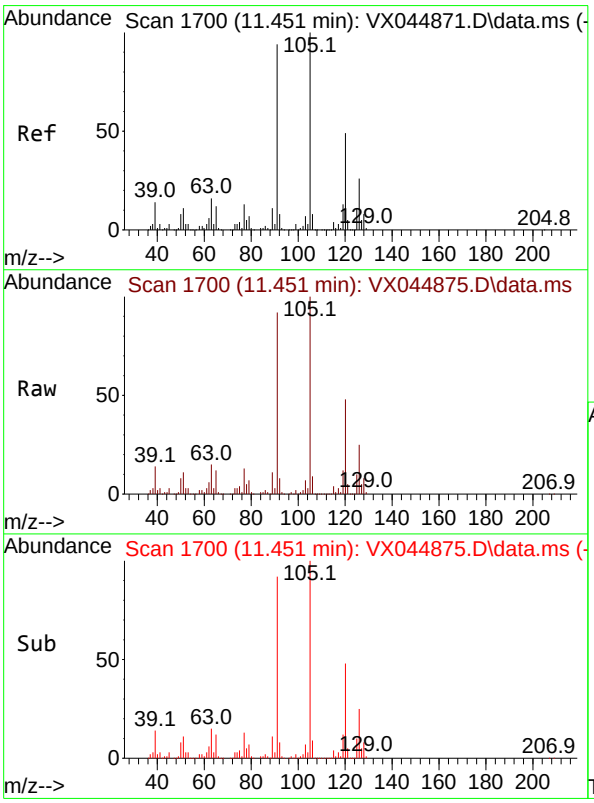
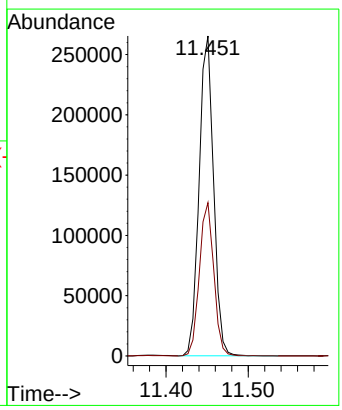
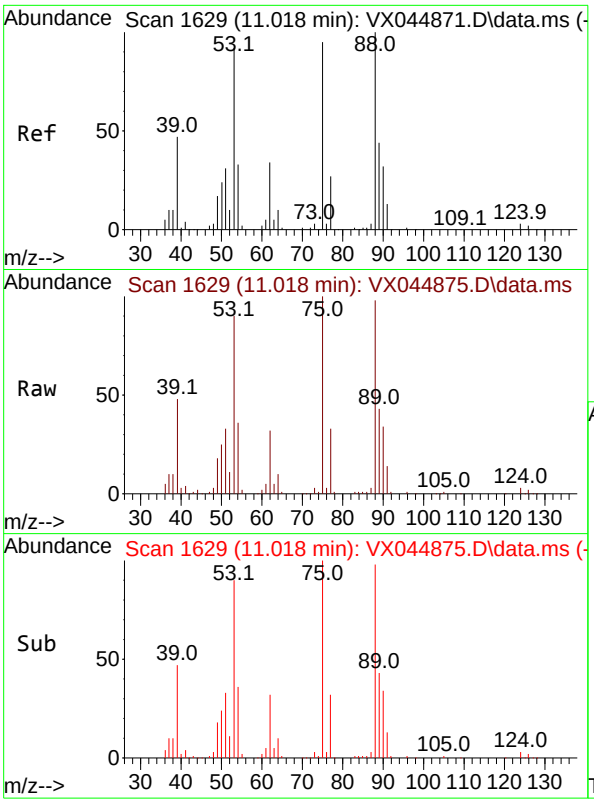


#80
1,3,5-Trimethylbenzene
Concen: 50.956 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 323251

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 52.665 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 4407

Ion	Ratio	Lower	Upper
75	100		
53	96.9	78.0	117.0
89	44.3	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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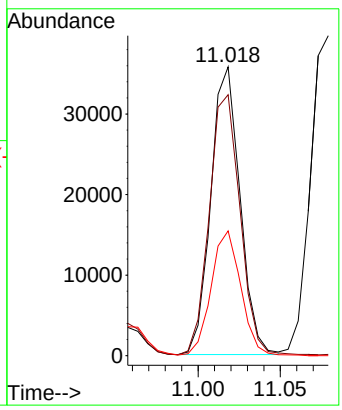
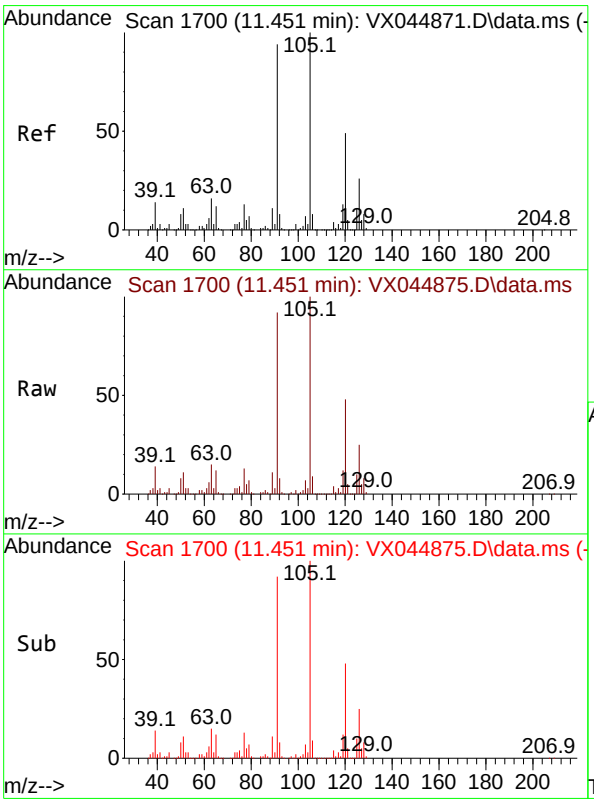
Supervised By :Mahesh Dadoda 02/11/2025

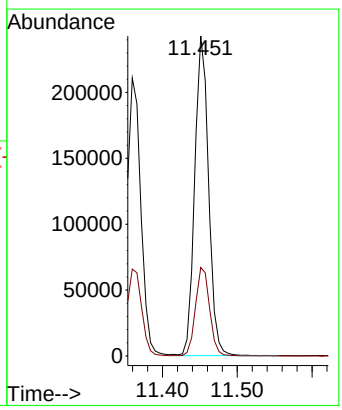


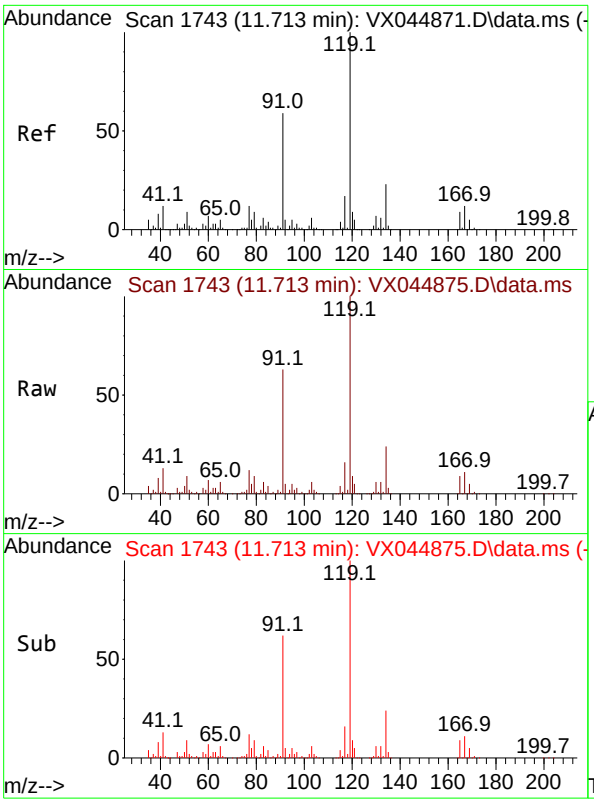


#82
4-Chlorotoluene
Concen: 50.872 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 312112

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.2	42.6

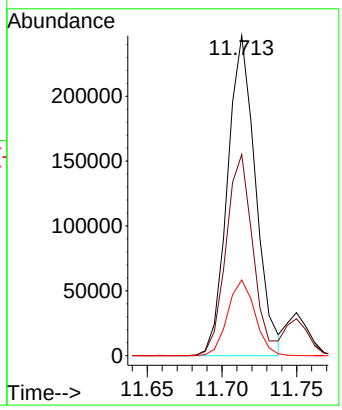




#83
tert-Butylbenzene
Concen: 50.139 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:119 Resp: 32177

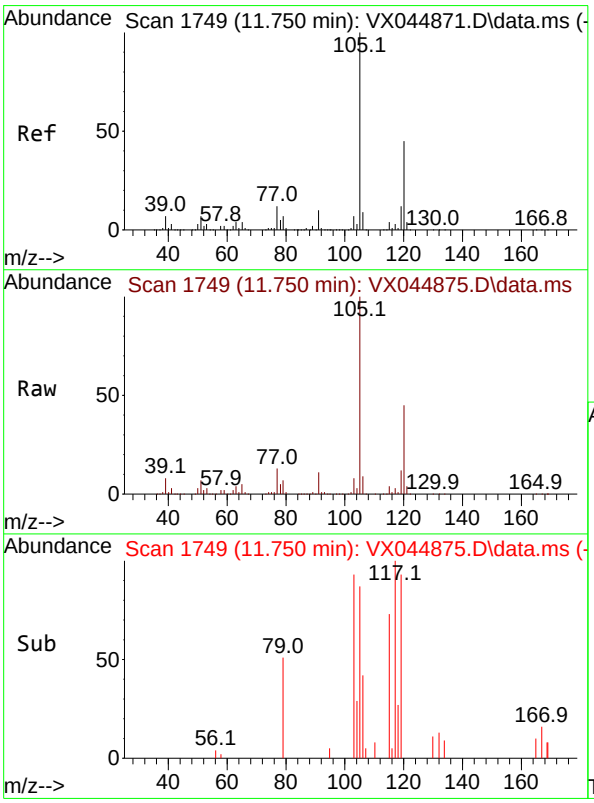
Ion	Ratio	Lower	Upper
119	100		
91	60.7	29.1	87.4
134	23.0	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

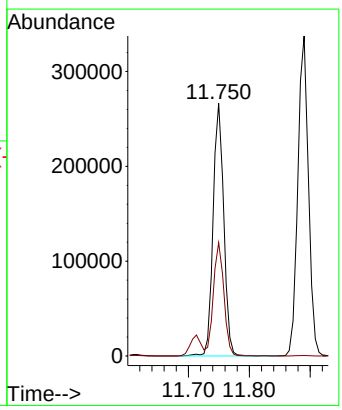
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

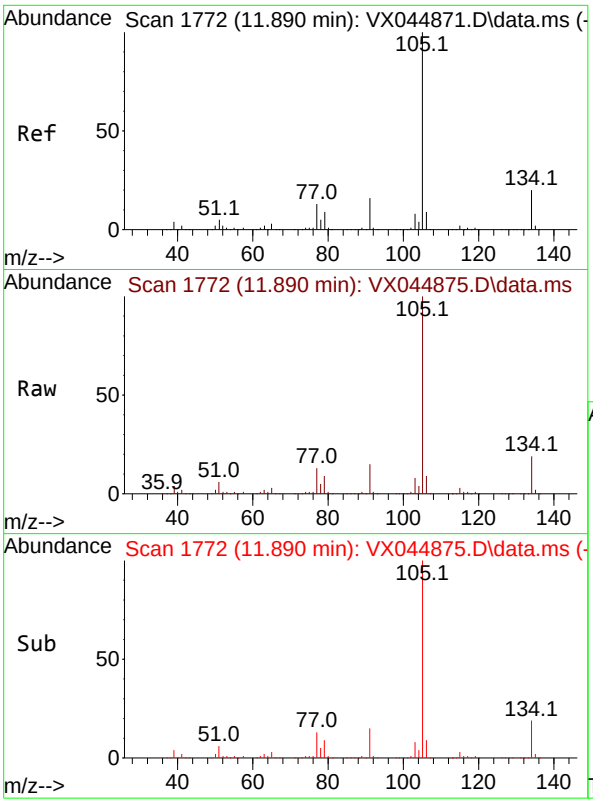


#84
1,2,4-Trimethylbenzene
Concen: 51.593 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 323035

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.4	67.0

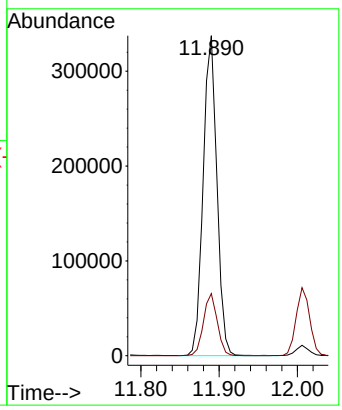




#85
sec-Butylbenzene
Concen: 51.617 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 41019

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
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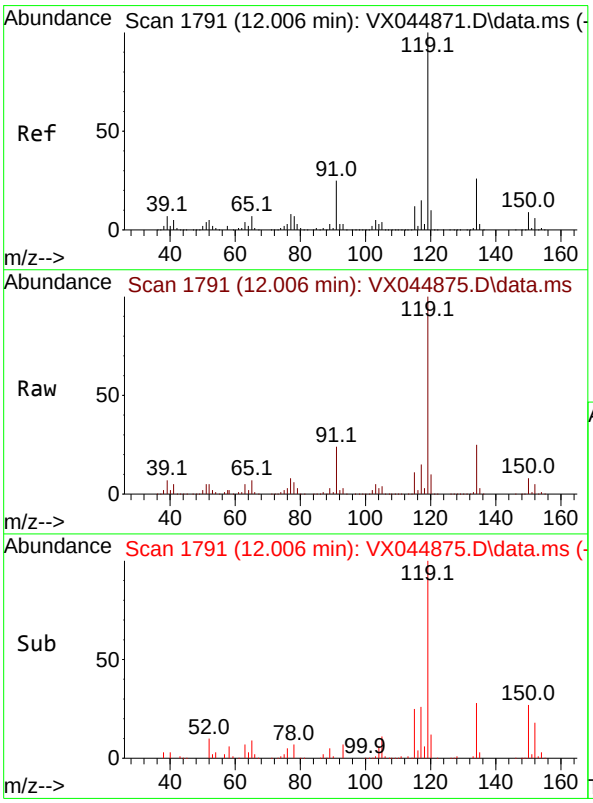
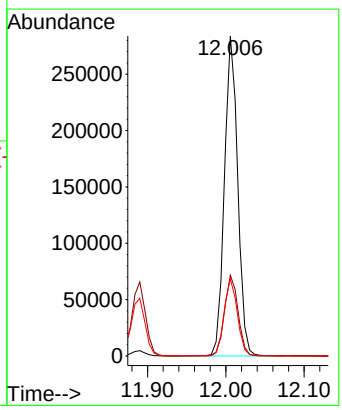
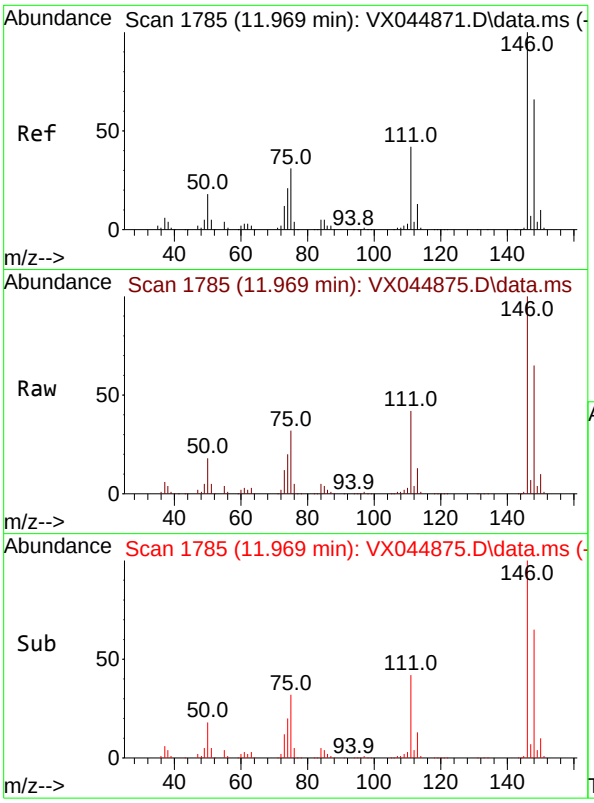


#86
p-Isopropyltoluene
Concen: 52.581 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:119 Resp: 336027

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.0	38.9
91	24.0	12.1	36.3

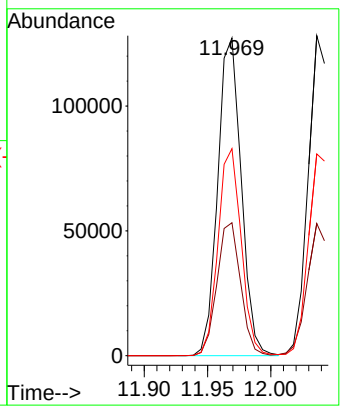




#87
1,3-Dichlorobenzene
Concen: 50.475 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:146 Resp: 16450

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	64.3	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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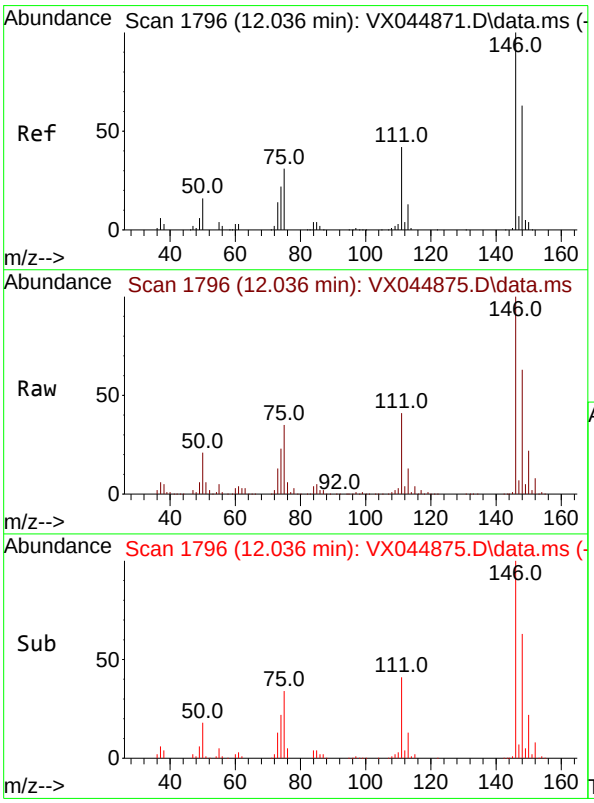
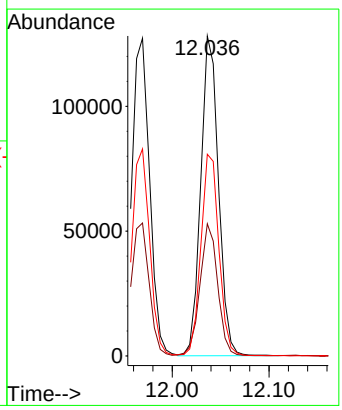
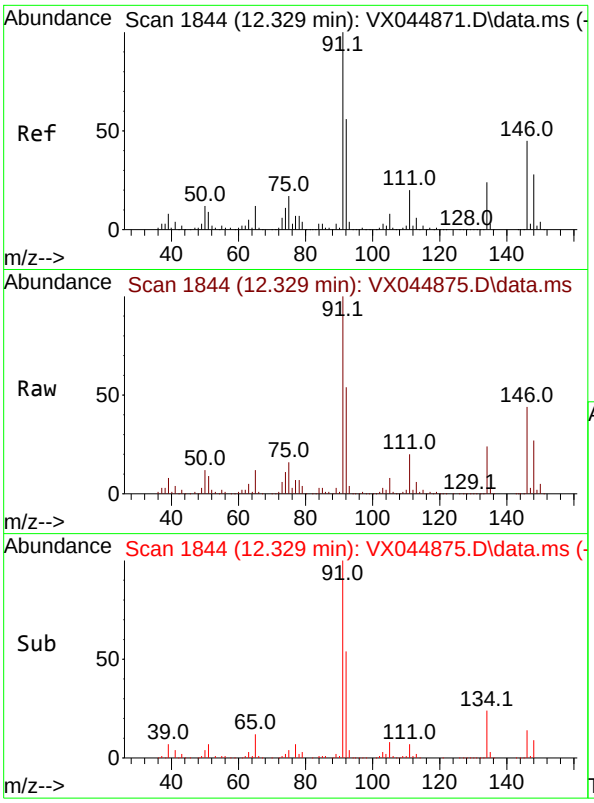


#88
1,4-Dichlorobenzene
Concen: 49.526 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:146 Resp: 163203

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.4	61.3
148	64.2	32.0	96.0

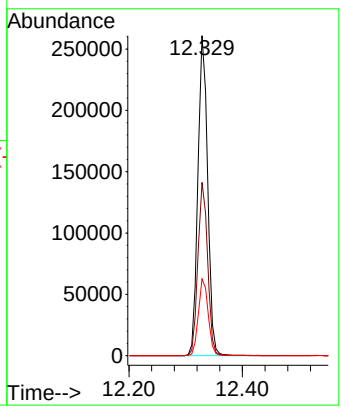




#89
n-Butylbenzene
Concen: 55.142 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 31176

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.6
134	24.1	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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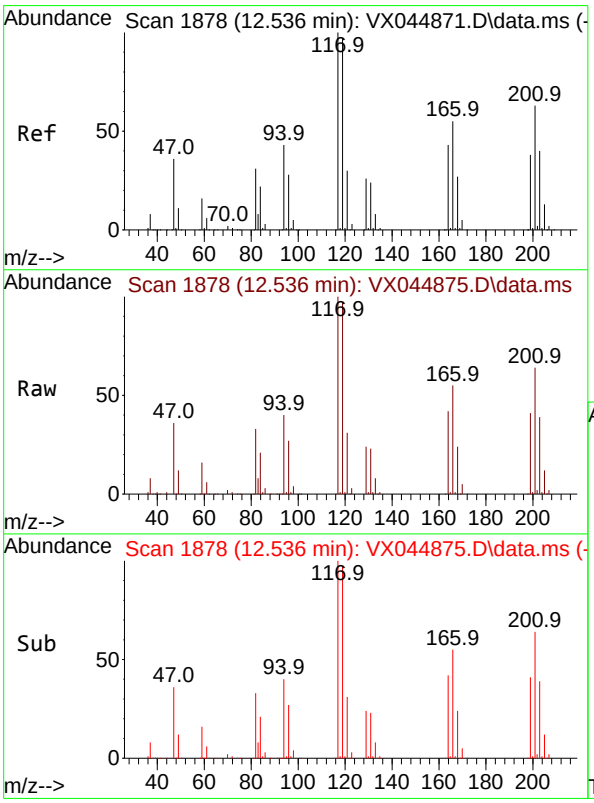
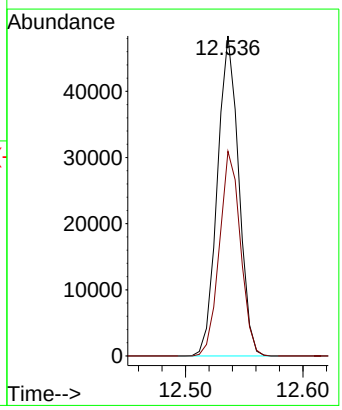
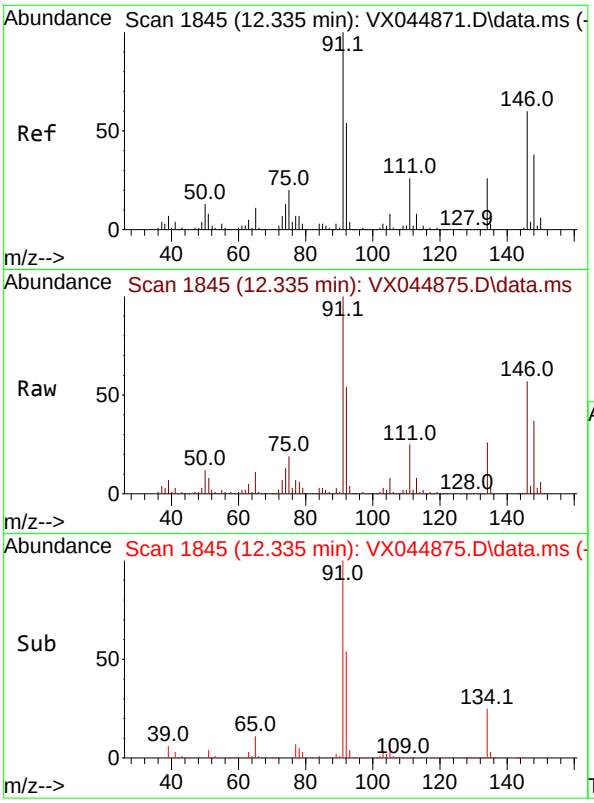


#90
Hexachloroethane
Concen: 50.990 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 61016

Ion	Ratio	Lower	Upper
117	100		
201	63.1	32.5	97.5

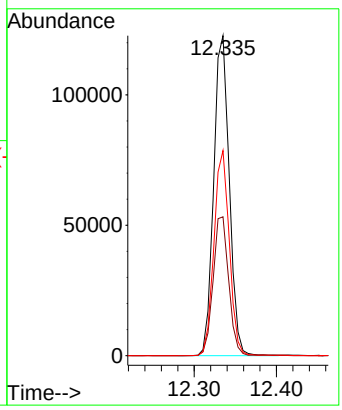




#91
1,2-Dichlorobenzene
Concen: 50.447 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:146 Resp: 16159

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.8	65.4
148	63.3	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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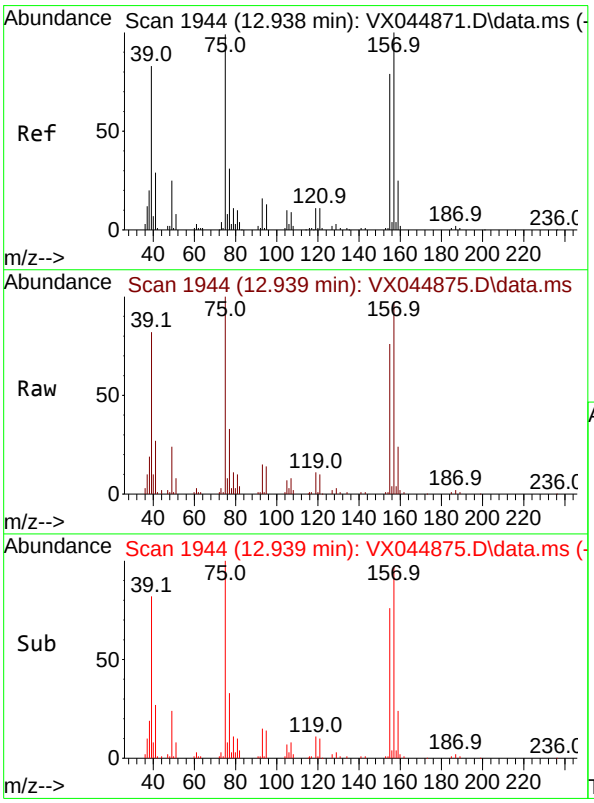
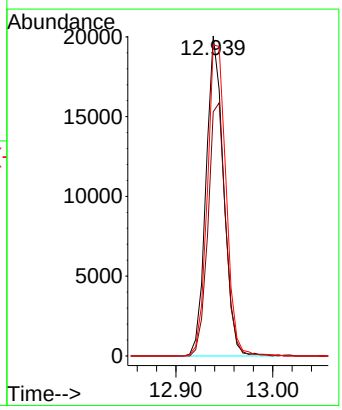
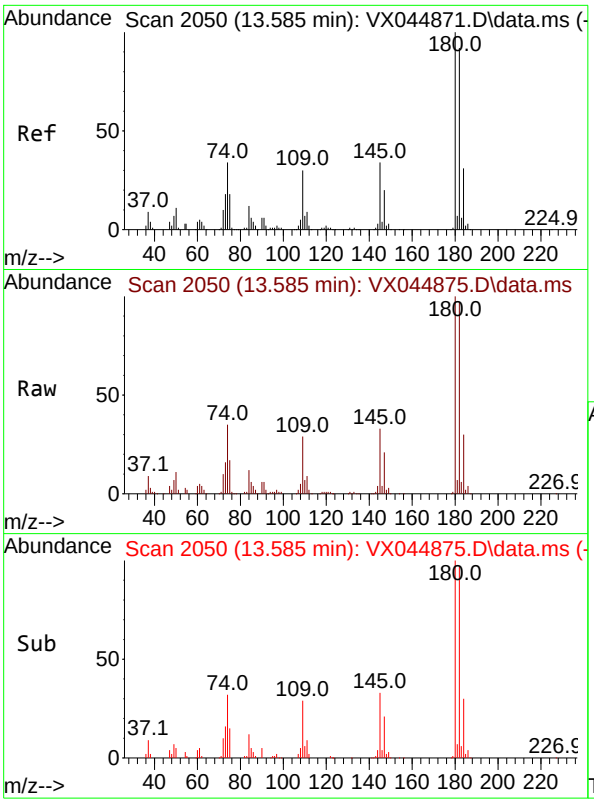


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.684 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 25339

Ion	Ratio	Lower	Upper
75	100		
155	79.5	40.5	121.4
157	103.5	51.4	154.3

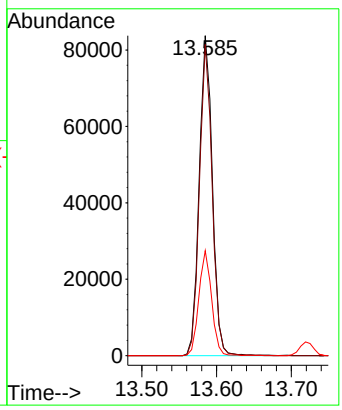




#93
1,2,4-Trichlorobenzene
Concen: 52.726 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:180 Resp: 10219

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.6	142.8
145	31.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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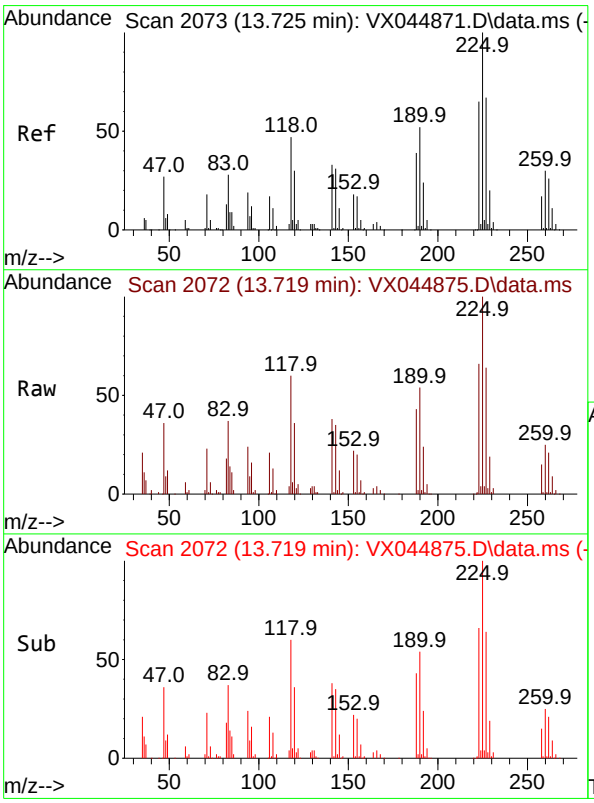
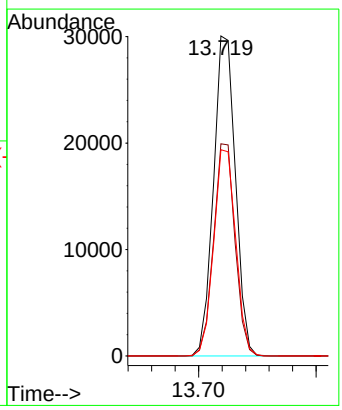
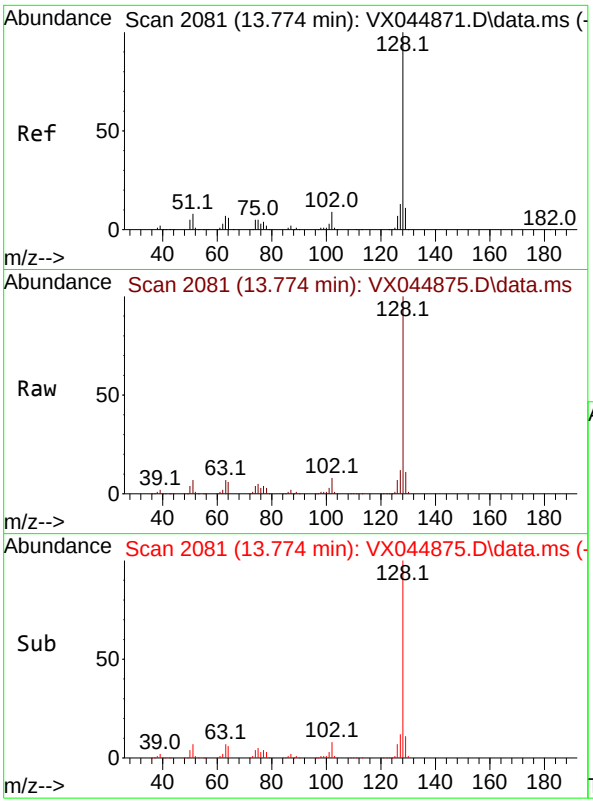


#94
Hexachlorobutadiene
Concen: 50.683 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:225 Resp: 38998

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.4	94.2
227	64.8	32.3	96.8

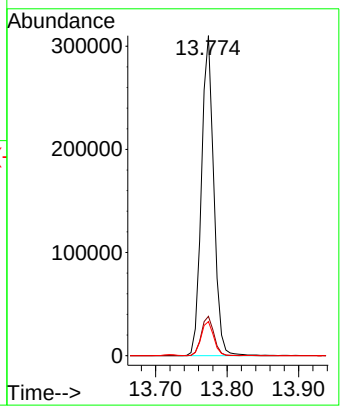




#95
Naphthalene
Concen: 53.033 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:128 Resp: 37157

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.9	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

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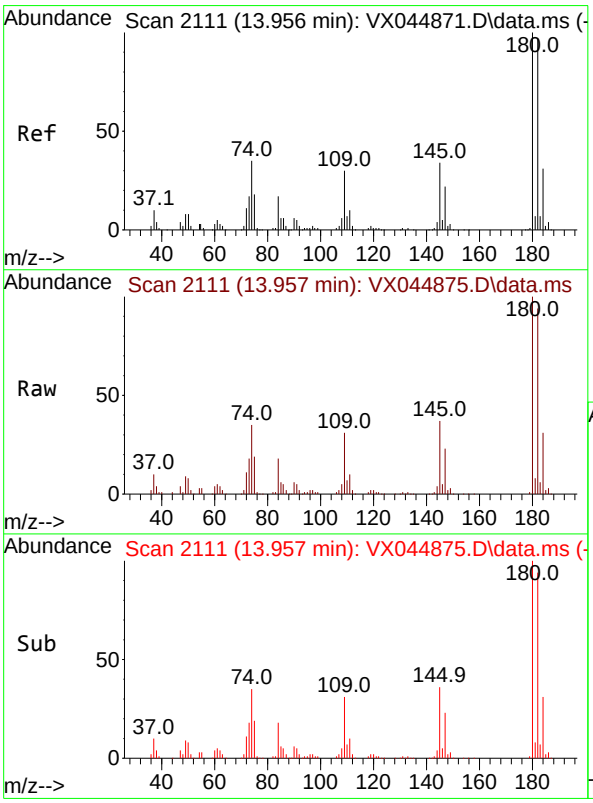
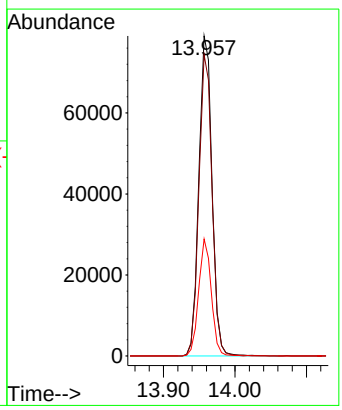


#96
1,2,3-Trichlorobenzene
Concen: 51.575 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:180 Resp: 100730

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.6
145	35.2	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	106	0.00
2	T	Dichlorodifluoromethane	0.701	0.690	1.6	105	0.00
3	P	Chloromethane	0.854	0.812	4.9	102	0.00
4	C	Vinyl Chloride	0.827	0.778	5.9#	102	0.00
5	T	Bromomethane	0.247	0.231	6.5	99	0.00
6	T	Chloroethane	0.307	0.279	9.1	87	0.00
7	T	Trichlorofluoromethane	1.046	1.016	2.9	105	0.00
8	T	Diethyl Ether	0.379	0.361	4.7	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.639	-1.1	109	0.00
10	T	Methyl Iodide	0.819	0.820	-0.1	103	0.00
11	T	Tert butyl alcohol	0.136	0.137	-0.7	107	0.00
12	CM	1,1-Dichloroethene	0.644	0.618	4.0#	104	0.00
13	T	Acrolein	0.140	0.135	3.6	101	0.00
14	T	Allyl chloride	1.165	1.141	2.1	105	0.00
15	T	Acrylonitrile	0.363	0.365	-0.6	102	0.00
16	T	Acetone	0.294	0.303	-3.1	110	0.00
17	T	Carbon Disulfide	1.767	1.749	1.0	105	0.00
18	T	Methyl Acetate	0.928	0.927	0.1	104	0.00
19	T	Methyl tert-butyl Ether	2.050	2.028	1.1	105	0.00
20	T	Methylene Chloride	0.721	0.692	4.0	104	0.00
21	T	trans-1,2-Dichloroethene	0.634	0.623	1.7	103	0.00
22	T	Diisopropyl ether	2.203	2.210	-0.3	105	0.00
23	T	Vinyl Acetate	1.796	1.850	-3.0	106	0.00
24	P	1,1-Dichloroethane	1.233	1.216	1.4	105	0.00
25	T	2-Butanone	0.478	0.493	-3.1	104	0.00
26	T	2,2-Dichloropropane	0.978	0.983	-0.5	110	0.00
27	T	cis-1,2-Dichloroethene	0.762	0.754	1.0	106	0.00
28	T	Bromochloromethane	0.593	0.536	9.6	98	0.00
29	T	Tetrahydrofuran	0.317	0.321	-1.3	104	0.00
30	C	Chloroform	1.196	1.157	3.3#	105	0.00
31	T	Cyclohexane	1.137	1.119	1.6	106	0.00
32	T	1,1,1-Trichloroethane	1.014	0.990	2.4	105	0.00
33	S	1,2-Dichloroethane-d4	0.732	0.704	3.8	103	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35	S	Dibromofluoromethane	0.325	0.320	1.5	105	0.00
36	T	1,1-Dichloropropene	0.469	0.457	2.6	103	0.00
37	T	Ethyl Acetate	0.522	0.514	1.5	102	0.00
38	T	Carbon Tetrachloride	0.460	0.451	2.0	104	0.00
39	T	Methylcyclohexane	0.606	0.646	-6.6	109	0.00
40	TM	Benzene	1.465	1.462	0.2	104	0.00
41	T	Methacrylonitrile	0.279	0.300	-7.5	104	0.00
42	TM	1,2-Dichloroethane	0.467	0.471	-0.9	105	0.00
43	T	Isopropyl Acetate	0.842	0.873	-3.7	104	0.00
44	TM	Trichloroethene	0.335	0.334	0.3	105	0.00
45	C	1,2-Dichloropropane	0.364	0.367	-0.8#	105	0.00
46	T	Dibromomethane	0.253	0.250	1.2	103	0.00
47	T	Bromodichloromethane	0.489	0.499	-2.0	105	0.00
48	T	Methyl methacrylate	0.397	0.420	-5.8	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	101	0.00
50	S	Toluene-d8	1.229	1.221	0.7	103	0.00
51	T	4-Methyl-2-Pentanone	0.512	0.543	-6.1	103	0.00
52	CM	Toluene	0.872	0.884	-1.4#	103	0.00
53	T	t-1,3-Dichloropropene	0.495	0.532	-7.5	109	0.00
54	T	cis-1,3-Dichloropropene	0.552	0.585	-6.0	106	0.00
55	T	1,1,2-Trichloroethane	0.335	0.341	-1.8	105	0.00
56	T	Ethyl methacrylate	0.542	0.586	-8.1	106	0.00
57	T	1,3-Dichloropropane	0.587	0.597	-1.7	103	0.00
58	T	2-Chloroethyl Vinyl ether	0.266	0.302	-13.5	110	0.00
59	T	2-Hexanone	0.369	0.398	-7.9	103	0.00
60	T	Dibromochloromethane	0.359	0.371	-3.3	104	0.00
61	T	1,2-Dibromoethane	0.340	0.350	-2.9	105	0.00
62	S	4-Bromofluorobenzene	0.414	0.429	-3.6	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.315	0.312	1.0	105	0.00
65	PM	Chlorobenzene	1.074	1.094	-1.9	104	0.00
66	T	1,1,1,2-Tetrachloroethane	0.346	0.354	-2.3	104	0.00
67	C	Ethyl Benzene	1.895	1.949	-2.8#	105	0.00
68	T	m/p-Xylenes	0.699	0.729	-4.3	105	0.00
69	T	o-Xylene	0.701	0.713	-1.7	105	0.00
70	T	Styrene	1.130	1.210	-7.1	105	0.00
71	P	Bromoform	0.258	0.279	-8.1	103	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73	T	Isopropylbenzene	4.026	4.020	0.1	104	0.00
74	T	N-amyl acetate	1.822	1.917	-5.2	106	0.00
75	P	1,1,2,2-Tetrachloroethane	1.383	1.337	3.3	103	0.00
76	T	1,2,3-Trichloropropane	1.109	1.101	0.7	104	0.00
77	T	Bromobenzene	0.913	0.908	0.5	104	0.00
78	T	n-propylbenzene	4.647	4.776	-2.8	106	0.00
79	T	2-Chlorotoluene	2.856	2.803	1.9	103	0.00
80	T	1,3,5-Trimethylbenzene	3.267	3.329	-1.9	105	0.00
81	T	trans-1,4-Dichloro-2-butene	0.431	0.454	-5.3	109	0.00
82	T	4-Chlorotoluene	3.160	3.215	-1.7	105	0.00
83	T	tert-Butylbenzene	3.305	3.314	-0.3	105	0.00
84	T	1,2,4-Trimethylbenzene	3.225	3.327	-3.2	104	0.00
85	T	sec-Butylbenzene	4.093	4.225	-3.2	107	0.00
86	T	p-Isopropyltoluene	3.291	3.461	-5.2	107	0.00
87	T	1,3-Dichlorobenzene	1.678	1.694	-1.0	106	0.00
88	T	1,4-Dichlorobenzene	1.697	1.681	0.9	105	0.00
89	T	n-Butylbenzene	2.912	3.211	-10.3	108	0.00
90	T	Hexachloroethane	0.616	0.628	-1.9	107	0.00
91	T	1,2-Dichlorobenzene	1.650	1.664	-0.8	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.252	0.261	-3.6	106	0.00
93	T	1,2,4-Trichlorobenzene	0.998	1.053	-5.5	109	0.00
94	T	Hexachlorobutadiene	0.396	0.402	-1.5	110	0.00
95	T	Naphthalene	3.608	3.827	-6.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.006	1.038	-3.2	105	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\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	106	0.00
2	T	Dichlorodifluoromethane	50.000	49.173	1.7	105	0.00
3	P	Chloromethane	50.000	47.590	4.8	102	0.00
4	C	Vinyl Chloride	50.000	47.033	5.9#	102	0.00
5	T	Bromomethane	50.000	46.719	6.6	99	0.00
6	T	Chloroethane	50.000	42.198	15.6	87	0.00
7	T	Trichlorofluoromethane	50.000	48.558	2.9	105	0.00
8	T	Diethyl Ether	50.000	47.544	4.9	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.588	-1.2	109	0.00
10	T	Methyl Iodide	50.000	50.082	-0.2	103	0.00
11	T	Tert butyl alcohol	250.000	251.791	-0.7	107	0.00
12	CM	1,1-Dichloroethene	50.000	47.935	4.1#	104	0.00
13	T	Acrolein	250.000	240.879	3.6	101	0.00
14	T	Allyl chloride	50.000	48.976	2.0	105	0.00
15	T	Acrylonitrile	250.000	251.537	-0.6	102	0.00
16	T	Acetone	250.000	257.198	-2.9	110	0.00
17	T	Carbon Disulfide	50.000	49.472	1.1	105	0.00
18	T	Methyl Acetate	50.000	49.920	0.2	104	0.00
19	T	Methyl tert-butyl Ether	50.000	49.453	1.1	105	0.00
20	T	Methylene Chloride	50.000	47.978	4.0	104	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.129	1.7	103	0.00
22	T	Diisopropyl ether	50.000	50.138	-0.3	105	0.00
23	T	Vinyl Acetate	250.000	257.465	-3.0	106	0.00
24	P	1,1-Dichloroethane	50.000	49.329	1.3	105	0.00
25	T	2-Butanone	250.000	258.175	-3.3	104	0.00
26	T	2,2-Dichloropropane	50.000	50.285	-0.6	110	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.493	1.0	106	0.00
28	T	Bromochloromethane	50.000	45.250	9.5	98	0.00
29	T	Tetrahydrofuran	250.000	253.318	-1.3	104	0.00
30	C	Chloroform	50.000	48.393	3.2#	105	0.00
31	T	Cyclohexane	50.000	49.211	1.6	106	0.00
32	T	1,1,1-Trichloroethane	50.000	48.825	2.3	105	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.061	3.9	103	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35	S	Dibromofluoromethane	50.000	49.173	1.7	105	0.00
36	T	1,1-Dichloropropene	50.000	48.702	2.6	103	0.00
37	T	Ethyl Acetate	50.000	49.300	1.4	102	0.00
38	T	Carbon Tetrachloride	50.000	49.083	1.8	104	0.00
39	T	Methylcyclohexane	50.000	53.254	-6.5	109	0.00
40	TM	Benzene	50.000	49.919	0.2	104	0.00
41	T	Methacrylonitrile	50.000	53.741	-7.5	104	0.00
42	TM	1,2-Dichloroethane	50.000	50.410	-0.8	105	0.00
43	T	Isopropyl Acetate	50.000	51.798	-3.6	104	0.00
44	TM	Trichloroethene	50.000	49.917	0.2	105	0.00
45	C	1,2-Dichloropropane	50.000	50.387	-0.8#	105	0.00
46	T	Dibromomethane	50.000	49.540	0.9	103	0.00
47	T	Bromodichloromethane	50.000	50.980	-2.0	105	0.00
48	T	Methyl methacrylate	50.000	52.848	-5.7	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	1021.138	-2.1	101	0.00
50	S	Toluene-d8	50.000	49.649	0.7	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	265.112	-6.0	103	0.00
52	CM	Toluene	50.000	50.680	-1.4#	103	0.00
53	T	t-1,3-Dichloropropene	50.000	53.731	-7.5	109	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.986	-6.0	106	0.00
55	T	1,1,2-Trichloroethane	50.000	50.811	-1.6	105	0.00
56	T	Ethyl methacrylate	50.000	54.068	-8.1	106	0.00
57	T	1,3-Dichloropropane	50.000	50.852	-1.7	103	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	284.352	-13.7	110	0.00
59	T	2-Hexanone	250.000	269.951	-8.0	103	0.00
60	T	Dibromochloromethane	50.000	51.673	-3.3	104	0.00
61	T	1,2-Dibromoethane	50.000	51.436	-2.9	105	0.00
62	S	4-Bromofluorobenzene	50.000	51.786	-3.6	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	49.424	1.2	105	0.00
65	PM	Chlorobenzene	50.000	50.952	-1.9	104	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.205	-2.4	104	0.00
67	C	Ethyl Benzene	50.000	51.415	-2.8#	105	0.00
68	T	m/p-Xylenes	100.000	104.282	-4.3	105	0.00
69	T	o-Xylene	50.000	50.804	-1.6	105	0.00
70	T	Styrene	50.000	53.521	-7.0	105	0.00
71	P	Bromoform	50.000	53.997	-8.0	103	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73	T	Isopropylbenzene	50.000	49.921	0.2	104	0.00
74	T	N-amyl acetate	50.000	52.621	-5.2	106	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.331	3.3	103	0.00
76	T	1,2,3-Trichloropropane	50.000	49.659	0.7	104	0.00
77	T	Bromobenzene	50.000	49.725	0.5	104	0.00
78	T	n-propylbenzene	50.000	51.386	-2.8	106	0.00
79	T	2-Chlorotoluene	50.000	49.065	1.9	103	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.956	-1.9	105	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.665	-5.3	109	0.00
82	T	4-Chlorotoluene	50.000	50.872	-1.7	105	0.00
83	T	tert-Butylbenzene	50.000	50.139	-0.3	105	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.593	-3.2	104	0.00
85	T	sec-Butylbenzene	50.000	51.617	-3.2	107	0.00
86	T	p-Isopropyltoluene	50.000	52.581	-5.2	107	0.00
87	T	1,3-Dichlorobenzene	50.000	50.475	-1.0	106	0.00
88	T	1,4-Dichlorobenzene	50.000	49.526	0.9	105	0.00
89	T	n-Butylbenzene	50.000	55.142	-10.3	108	0.00
90	T	Hexachloroethane	50.000	50.990	-2.0	107	0.00
91	T	1,2-Dichlorobenzene	50.000	50.447	-0.9	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.684	-3.4	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.726	-5.5	109	0.00
94	T	Hexachlorobutadiene	50.000	50.683	-1.4	110	0.00
95	T	Naphthalene	50.000	53.033	-6.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	51.575	-3.2	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG No.: Q1347

Instrument ID: MSVOA_X Calibration Date/Time: 02/12/2025 10:07

Lab File ID: VX044920.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.854	0.820	0.1	-3.98	20
Vinyl Chloride	0.827	0.797		-3.63	20
Bromomethane	0.247	0.256		3.64	20
Chloroethane	0.307	0.389		26.71	20
Trichlorofluoromethane	1.046	1.056		0.96	20
1,1,2-Trichlorotrifluoroethane	0.632	0.642		1.58	20
1,1-Dichloroethene	0.644	0.613		-4.81	20
Acetone	0.294	0.293		-0.34	20
Carbon Disulfide	1.767	1.633		-7.58	20
Methyl tert-butyl Ether	2.050	1.992		-2.83	20
Methylene Chloride	0.721	0.687		-4.72	20
trans-1,2-Dichloroethene	0.634	0.601		-5.2	20
1,1-Dichloroethane	1.233	1.202	0.1	-2.51	20
2-Butanone	0.478	0.466		-2.51	20
Carbon Tetrachloride	0.460	0.463		0.65	20
cis-1,2-Dichloroethene	0.762	0.733		-3.81	20
Chloroform	1.196	1.159		-3.09	20
1,1,1-Trichloroethane	1.014	0.988		-2.56	20
Methylcyclohexane	0.606	0.636		4.95	20
Benzene	1.465	1.458		-0.48	20
1,2-Dichloroethane	0.467	0.483		3.43	20
Trichloroethene	0.335	0.330		-1.49	20
1,2-Dichloropropane	0.364	0.366		0.55	20
Bromodichloromethane	0.489	0.505		3.27	20
4-Methyl-2-Pentanone	0.512	0.531		3.71	20
Toluene	0.872	0.887		1.72	20
t-1,3-Dichloropropene	0.495	0.514		3.84	20
cis-1,3-Dichloropropene	0.552	0.566		2.54	20
1,1,2-Trichloroethane	0.335	0.334		-0.3	20
2-Hexanone	0.369	0.382		3.52	20
Dibromochloromethane	0.359	0.367		2.23	20
Tetrachloroethene	0.315	0.319		1.27	20
Chlorobenzene	1.074	1.085	0.3	1.02	20
Ethyl Benzene	1.895	1.934		2.06	20
m/p-Xylenes	0.699	0.715		2.29	20
o-Xylene	0.701	0.711		1.43	20
Styrene	1.130	1.191		5.4	20
Bromoform	0.258	0.269	0.1	4.26	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG No.: Q1347

Instrument ID: MSVOA_X Calibration Date/Time: 02/12/2025 10:07

Lab File ID: VX044920.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.026	4.000		-0.65	20
1,1,2,2-Tetrachloroethane	1.383	1.289	0.3	-6.8	20
1,3-Dichlorobenzene	1.678	1.658		-1.19	20
1,4-Dichlorobenzene	1.697	1.647		-2.95	20
1,2-Dichlorobenzene	1.650	1.611		-2.36	20
1,2-Dichloroethane-d4	0.732	0.766		4.64	20
Dibromofluoromethane	0.325	0.353		8.61	20
Toluene-d8	1.229	1.313		6.84	20
4-Bromofluorobenzene	0.414	0.448		8.21	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	120105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	211946	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	185163	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84033	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	91954	52.302	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.600%			
35) Dibromofluoromethane	5.373	113	74881	54.340	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.680%			
50) Toluene-d8	8.641	98	278211	53.391	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.780%			
62) 4-Bromofluorobenzene	11.079	95	95016	54.089	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.180%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	86249	51.201	ug/l	100
3) Chloromethane	1.300	50	98529	48.058	ug/l	97
4) Vinyl Chloride	1.374	62	95759	48.212	ug/l	100
5) Bromomethane	1.593	94	30797	51.816	ug/l	98
6) Chloroethane	1.666	64	46742	64.424	ug/l	98
7) Trichlorofluoromethane	1.873	101	126873	50.511	ug/l	99
8) Diethyl Ether	2.130	74	45317	49.748	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	77108	50.809	ug/l	100
10) Methyl Iodide	2.447	142	100548	51.121	ug/l	99
11) Tert butyl alcohol	2.983	59	71926	220.523	ug/l	99
12) 1,1-Dichloroethene	2.312	96	73660	47.582	ug/l	97
13) Acrolein	2.233	56	82049	243.819	ug/l	97
14) Allyl chloride	2.654	41	134496	48.073	ug/l	97
15) Acrylonitrile	3.062	53	213802	245.512	ug/l	99
16) Acetone	2.379	43	175667	248.546	ug/l	98
17) Carbon Disulfide	2.501	76	196175	46.213	ug/l	100
18) Methyl Acetate	2.696	43	107526	48.211	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	239250	48.574	ug/l	98
20) Methylene Chloride	2.782	84	82539	47.678	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	72134	47.344	ug/l	89
22) Diisopropyl ether	3.751	45	261816	49.465	ug/l	90
23) Vinyl Acetate	3.715	43	1071727	248.365	ug/l	100
24) 1,1-Dichloroethane	3.599	63	144325	48.732	ug/l	99
25) 2-Butanone	4.550	43	279933	243.912	ug/l	97
26) 2,2-Dichloropropane	4.464	77	113866	48.481	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	87985	48.076	ug/l	99
28) Bromochloromethane	4.885	49	72142	50.687	ug/l	99
29) Tetrahydrofuran	4.995	42	183038	240.180	ug/l	99
30) Chloroform	5.080	83	139181	48.459	ug/l	97
31) Cyclohexane	5.458	56	129630	47.478	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	118700	48.724	ug/l	99
36) 1,1-Dichloropropene	5.684	75	98671	49.631	ug/l	99
37) Ethyl Acetate	4.708	43	106523	48.172	ug/l	99
38) Carbon Tetrachloride	5.665	117	98102	50.355	ug/l	99
39) Methylcyclohexane	7.372	83	134748	52.425	ug/l	98
40) Benzene	6.025	78	309040	49.781	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	62387	52.708	ug/l		99
42) 1,2-Dichloroethane	6.074	62	102405	51.758	ug/l		99
43) Isopropyl Acetate	6.330	43	181205	50.744	ug/l		99
44) Trichloroethene	7.116	130	69974	49.313	ug/l		98
45) 1,2-Dichloropropane	7.421	63	77497	50.178	ug/l		99
46) Dibromomethane	7.574	93	53707	50.143	ug/l		99
47) Bromodichloromethane	7.811	83	106971	51.579	ug/l		96
48) Methyl methacrylate	7.683	41	86305	51.258	ug/l		98
49) 1,4-Dioxane	7.659	88	35447	981.246	ug/l		99
51) 4-Methyl-2-Pentanone	8.567	43	562757	259.224	ug/l		99
52) Toluene	8.714	92	188063	50.867	ug/l		99
53) t-1,3-Dichloropropene	8.970	75	108842	51.862	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	120059	51.308	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	70772	49.796	ug/l		97
56) Ethyl methacrylate	9.110	69	117608	51.235	ug/l		98
57) 1,3-Dichloropropane	9.305	76	125770	50.576	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.232	63	298625	264.951	ug/l		99
59) 2-Hexanone	9.427	43	404473	258.586	ug/l		98
60) Dibromochloromethane	9.518	129	77715	51.129	ug/l		99
61) 1,2-Dibromoethane	9.604	107	72757	50.508	ug/l		98
64) Tetrachloroethene	9.268	164	59146	50.651	ug/l		98
65) Chlorobenzene	10.073	112	200858	50.505	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	64502	50.389	ug/l		99
67) Ethyl Benzene	10.189	91	358077	51.021	ug/l		99
68) m/p-Xylenes	10.299	106	264855	102.304	ug/l		99
69) o-Xylene	10.640	106	131657	50.681	ug/l		100
70) Styrene	10.652	104	220619	52.714	ug/l		99
71) Bromoform	10.793	173	49868	52.200	ug/l	#	99
73) Isopropylbenzene	10.957	105	336153	49.681	ug/l		99
74) N-amyl acetate	10.841	43	151720	49.552	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	108321	46.588	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	90536m	48.593	ug/l		
77) Bromobenzene	11.195	156	76664	49.976	ug/l		98
78) n-propylbenzene	11.299	91	397362	50.880	ug/l		100
79) 2-Chlorotoluene	11.360	91	233123	48.568	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	276841	50.419	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	34230	47.260	ug/l		98
82) 4-Chlorotoluene	11.451	91	268620	50.585	ug/l		99
83) tert-Butylbenzene	11.713	119	275866	49.664	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	275526	50.841	ug/l		99
85) sec-Butylbenzene	11.884	105	352655	51.270	ug/l		100
86) p-Isopropyltoluene	12.006	119	285566	51.626	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	139339	49.394	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	138443	48.539	ug/l		99
89) n-Butylbenzene	12.329	91	263985	53.945	ug/l		100
90) Hexachloroethane	12.536	117	50761	49.010	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	135345	48.817	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20298	47.833	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	85318	50.856	ug/l		99
94) Hexachlorobutadiene	13.719	225	34467	51.753	ug/l		98
95) Naphthalene	13.774	128	299724	49.423	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	85892	50.809	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

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\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
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Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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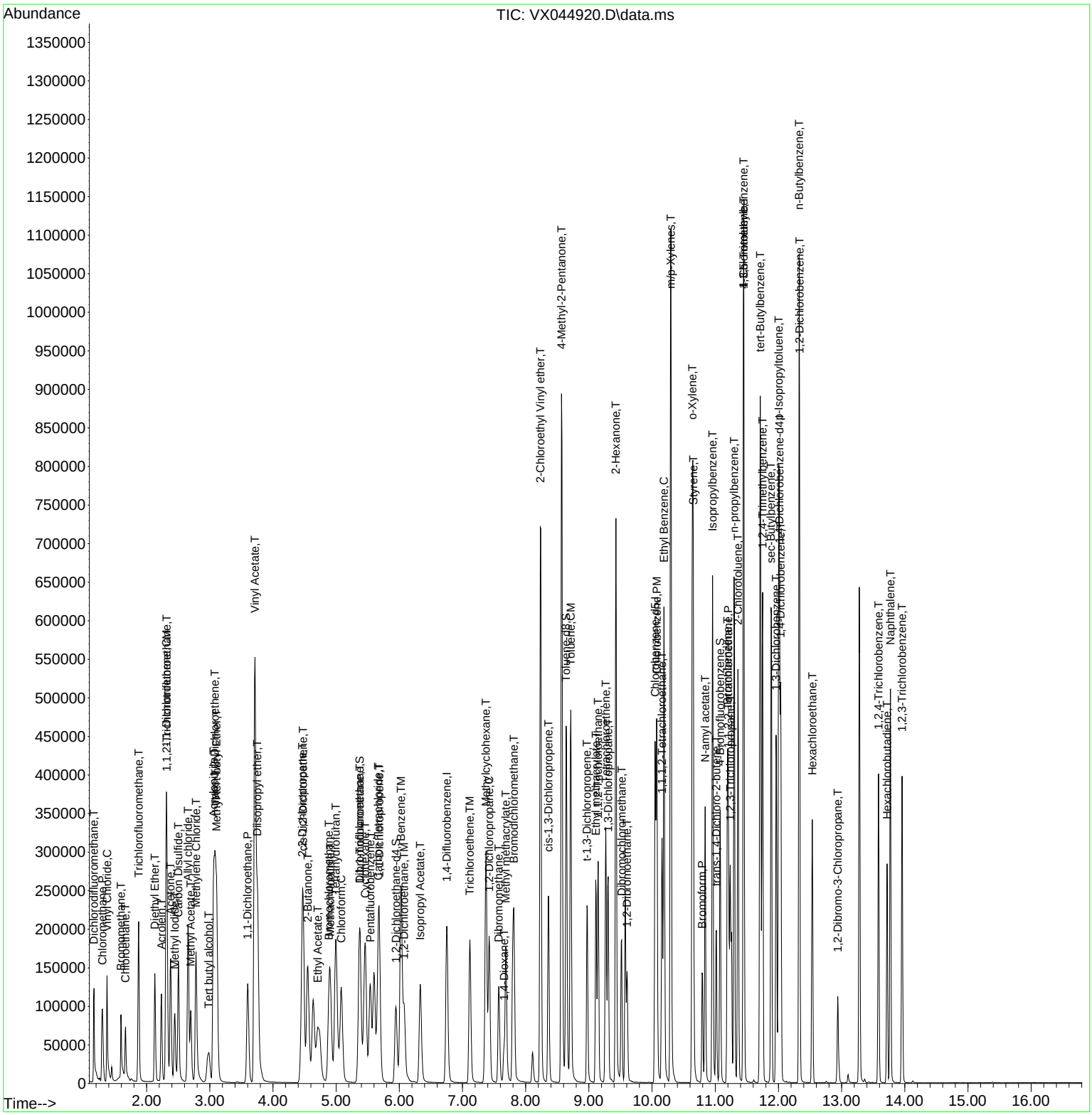
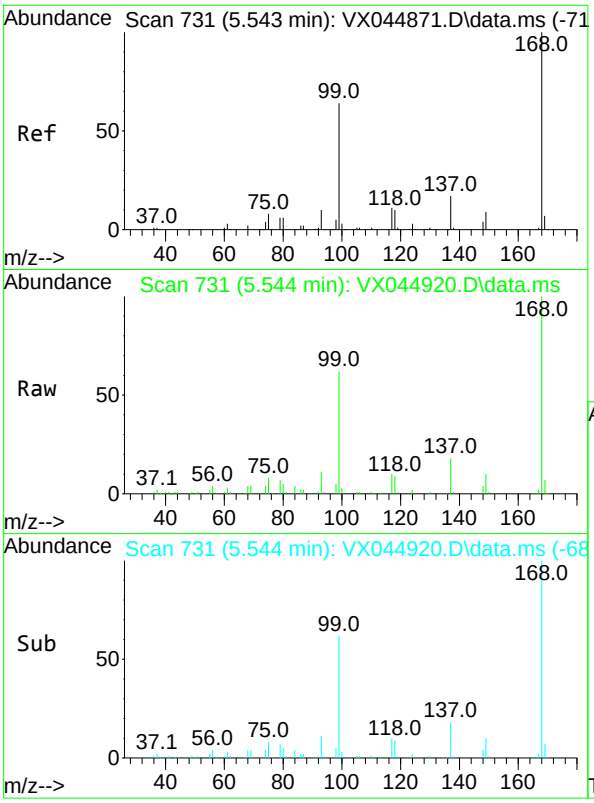
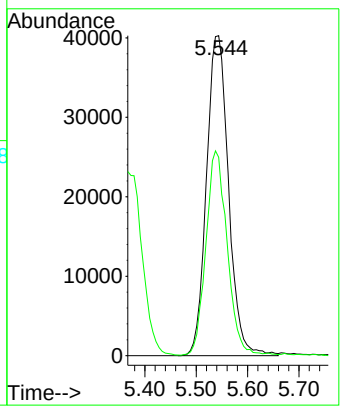




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:168 Resp: 12010

Ion	Ratio	Lower	Upper
168	100		
99	61.8	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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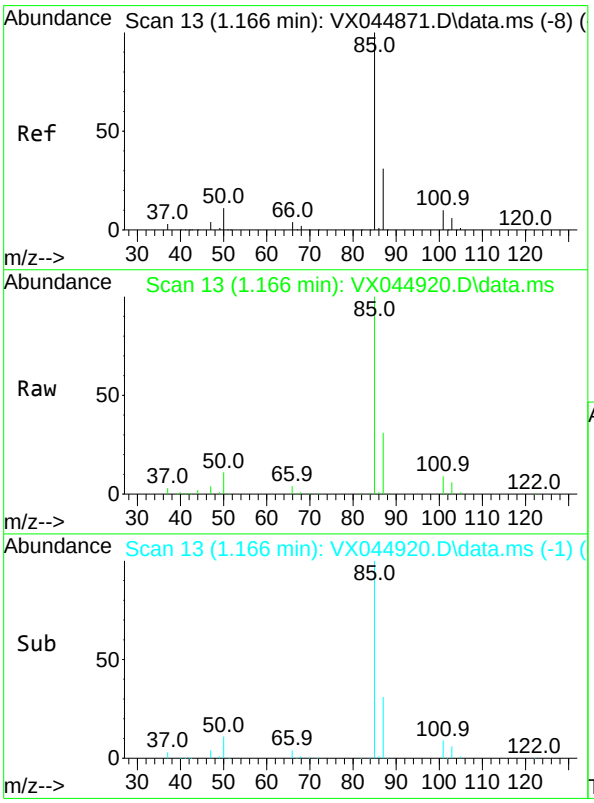
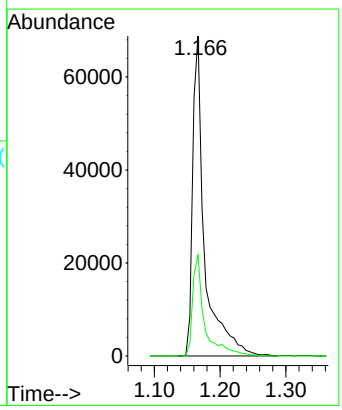
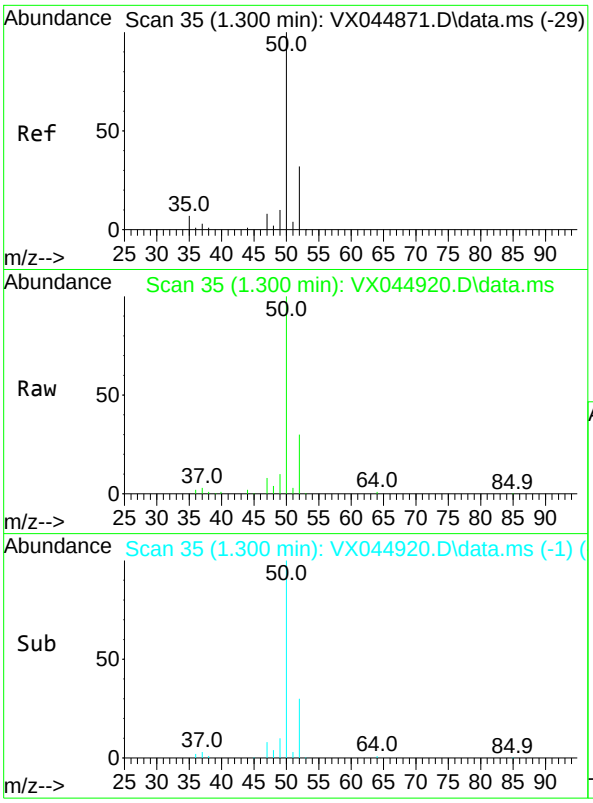


#2
Dichlorodifluoromethane
Concen: 51.201 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 85 Resp: 86249

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

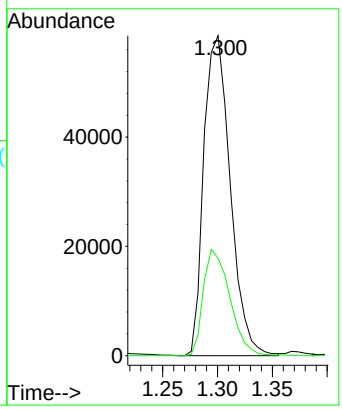




#3
Chloromethane
Concen: 48.058 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 50 Resp: 9852

Ion	Ratio	Lower	Upper
50	100		
52	30.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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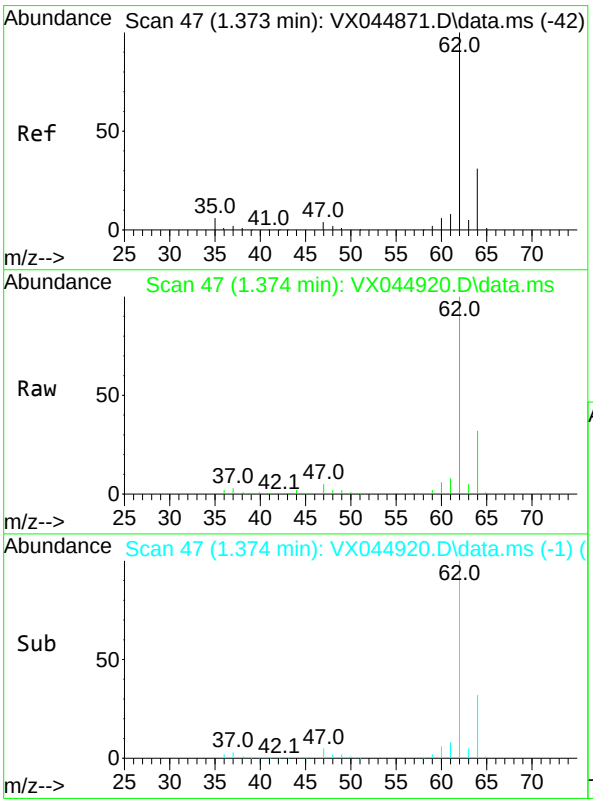
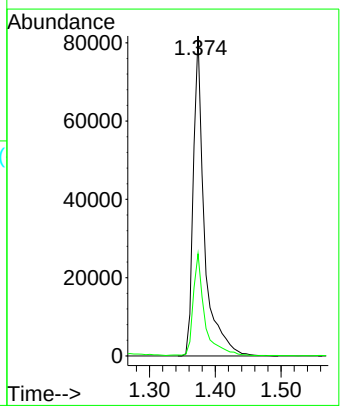
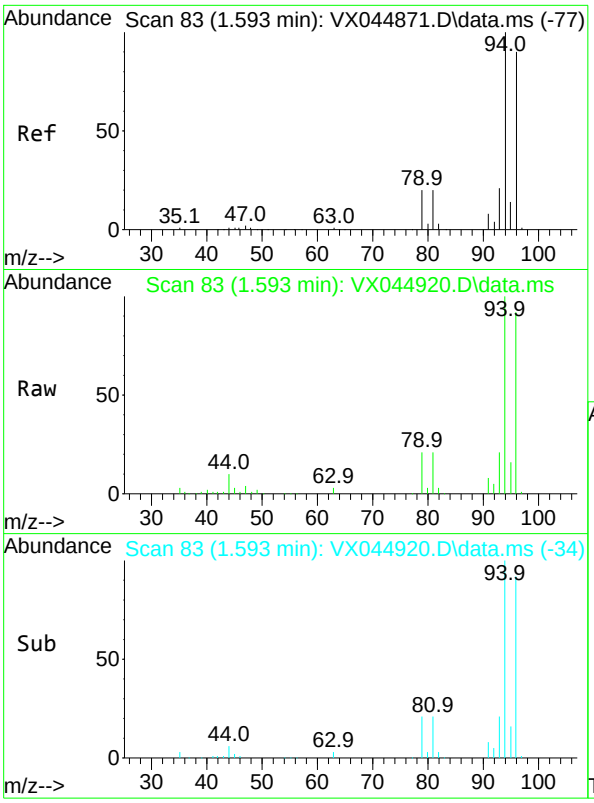


#4
Vinyl Chloride
Concen: 48.212 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 62 Resp: 95759

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0

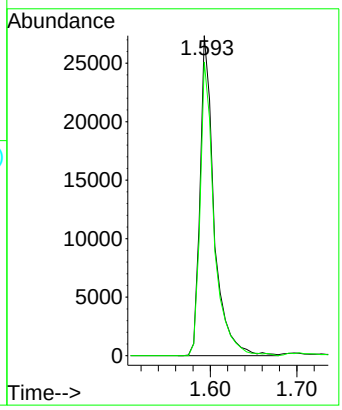




#5
Bromomethane
Concen: 51.816 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 94 Resp: 3079

Ion	Ratio	Lower	Upper
94	100		
96	91.8	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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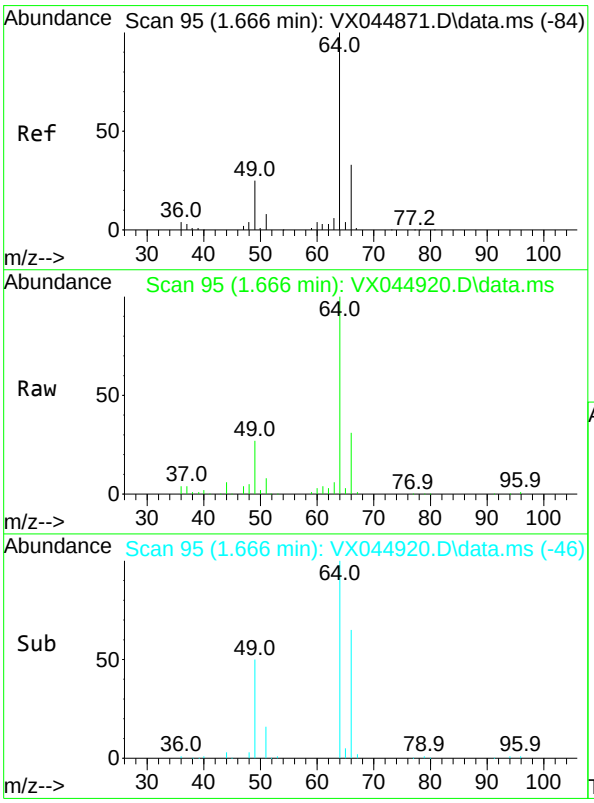
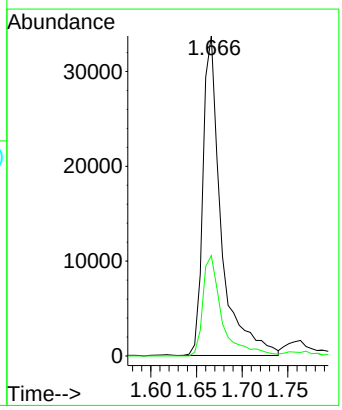
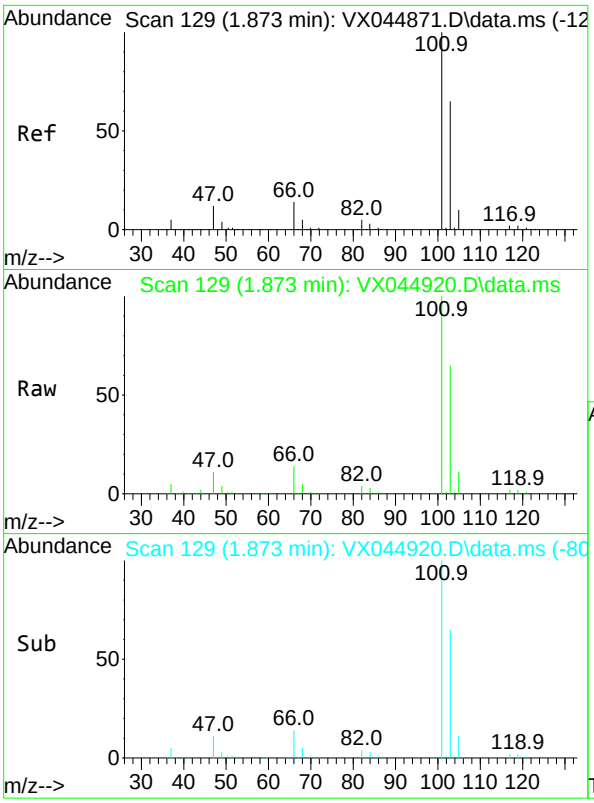


#6
Chloroethane
Concen: 64.424 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 64 Resp: 46742

Ion	Ratio	Lower	Upper
64	100		
66	31.4	25.9	38.9

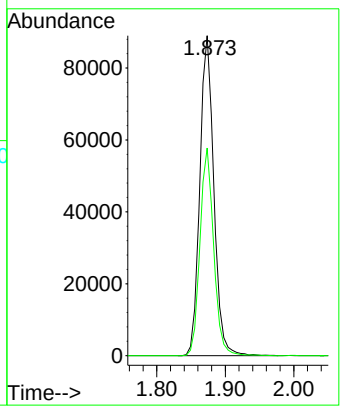




#7
Trichlorofluoromethane
Concen: 50.511 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:101 Resp: 12687

Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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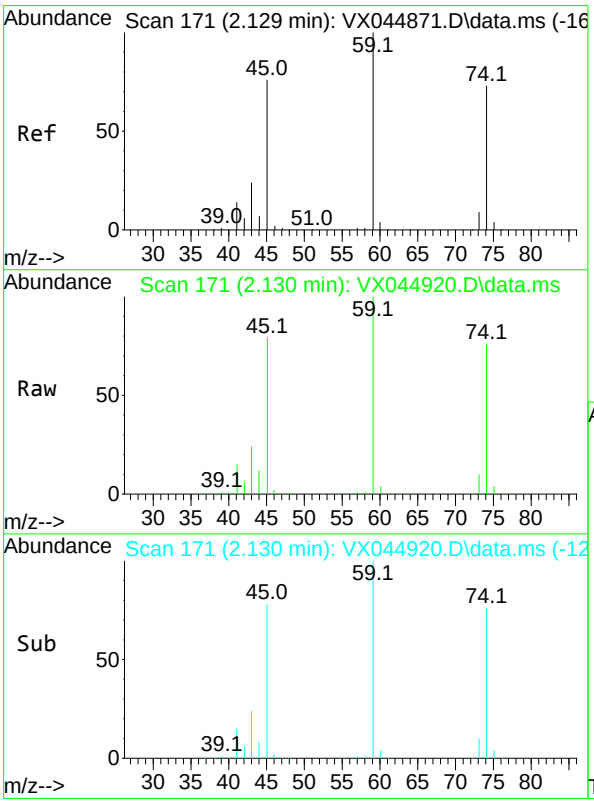
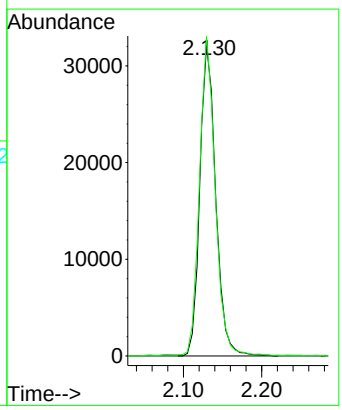
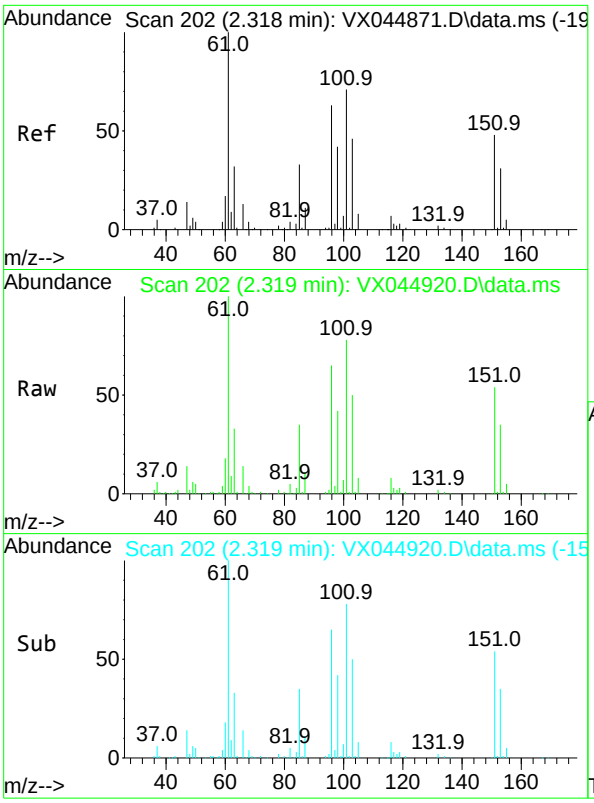


#8
Diethyl Ether
Concen: 49.748 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 74 Resp: 45317

Ion	Ratio	Lower	Upper
74	100		
45	101.1	51.1	153.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.809 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:101 Resp: 7710

Ion	Ratio	Lower	Upper
101	100		
85	44.6	35.7	53.5
151	69.9	56.0	84.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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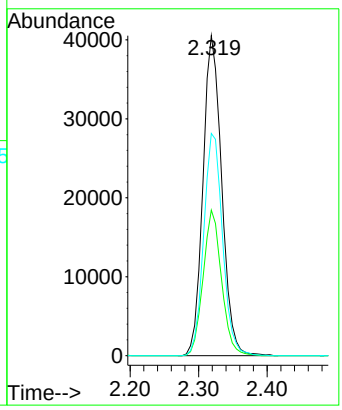
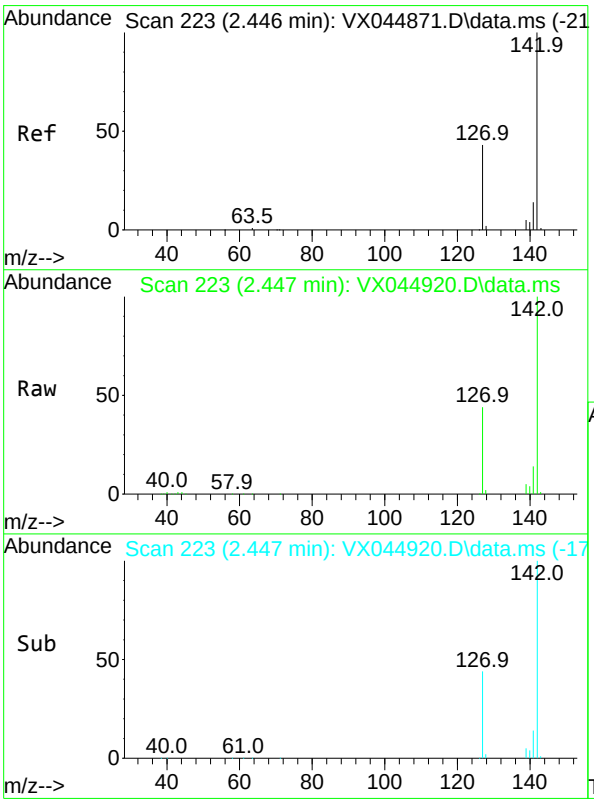
Supervised By :Mahesh Dadoda 02/14/2025

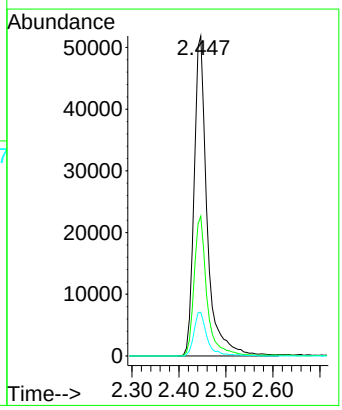


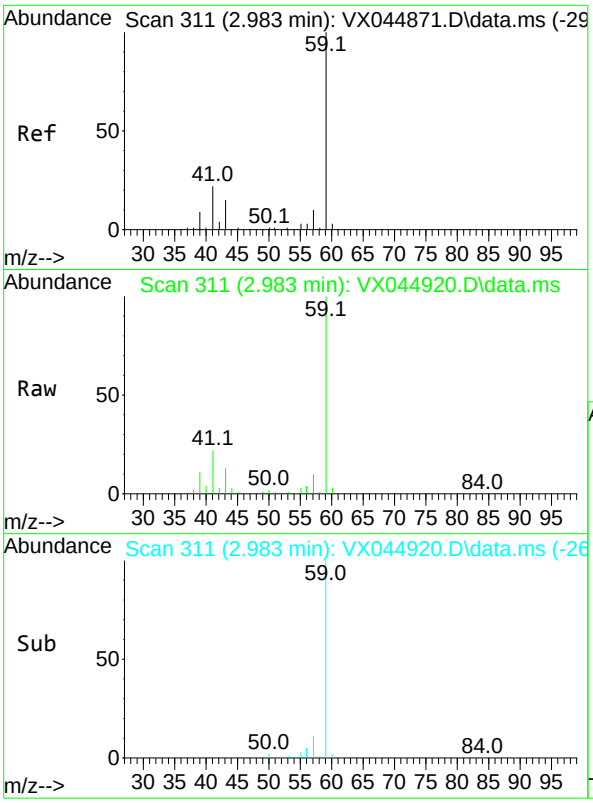


#10
Methyl Iodide
Concen: 51.121 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:142 Resp: 100548

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	13.9	11.4	17.2

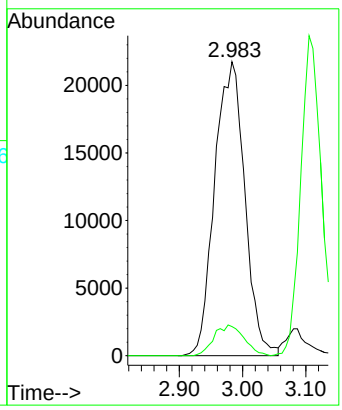




#11
Tert butyl alcohol
Concen: 220.523 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 59 Resp: 7192

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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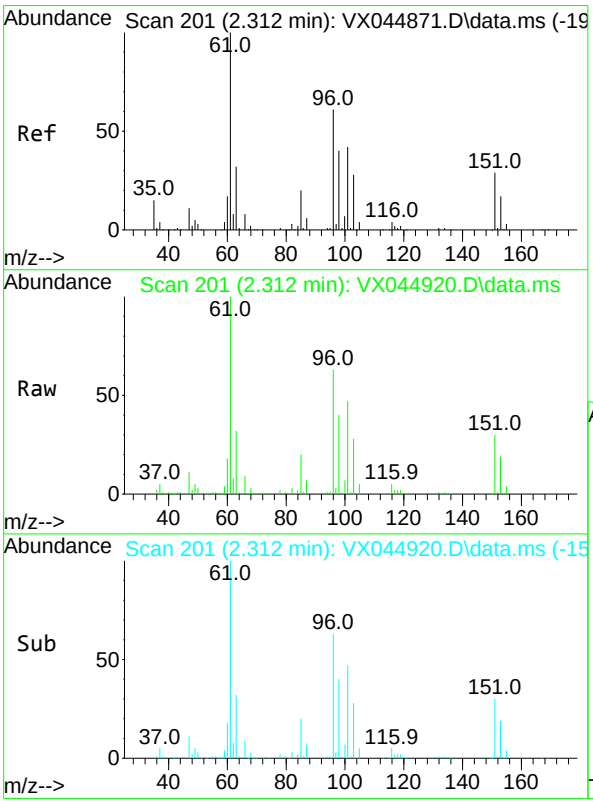
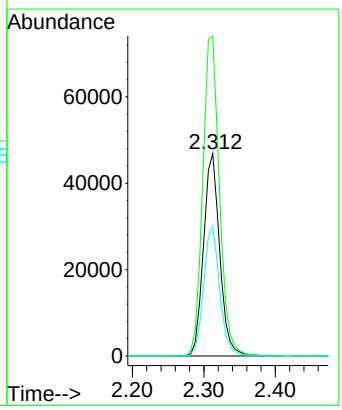
Supervised By :Mahesh Dadoda 02/14/2025

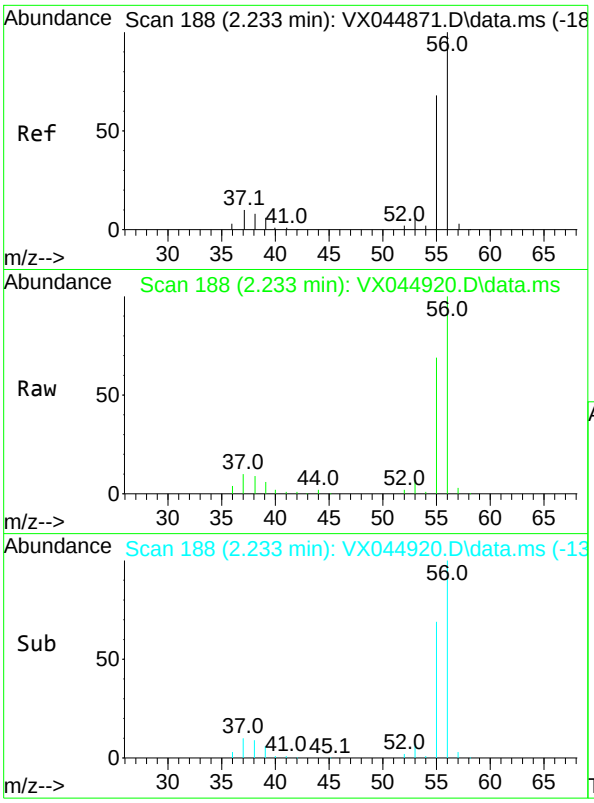


#12
1,1-Dichloroethene
Concen: 47.582 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 96 Resp: 73660

Ion	Ratio	Lower	Upper
96	100		
61	158.1	130.2	195.4
98	63.6	52.2	78.4

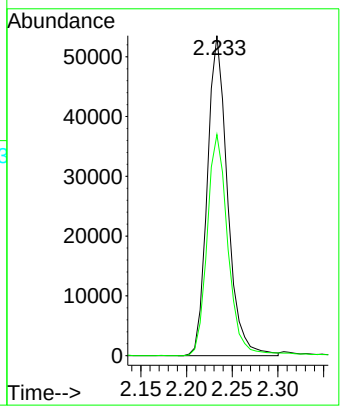




#13
Acrolein
Concen: 243.819 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 56 Resp: 8204

Ion	Ratio	Lower	Upper
56	100		
55	71.8	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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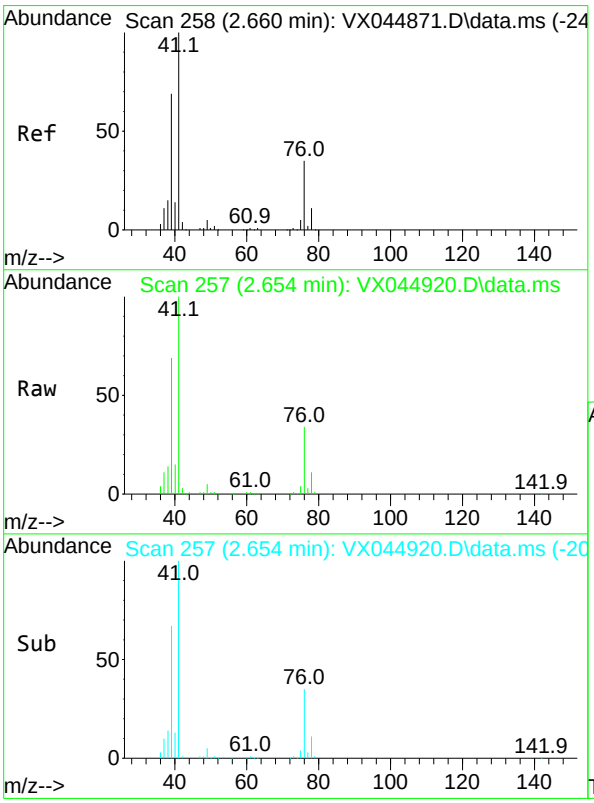
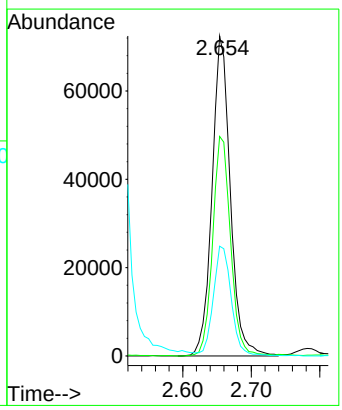
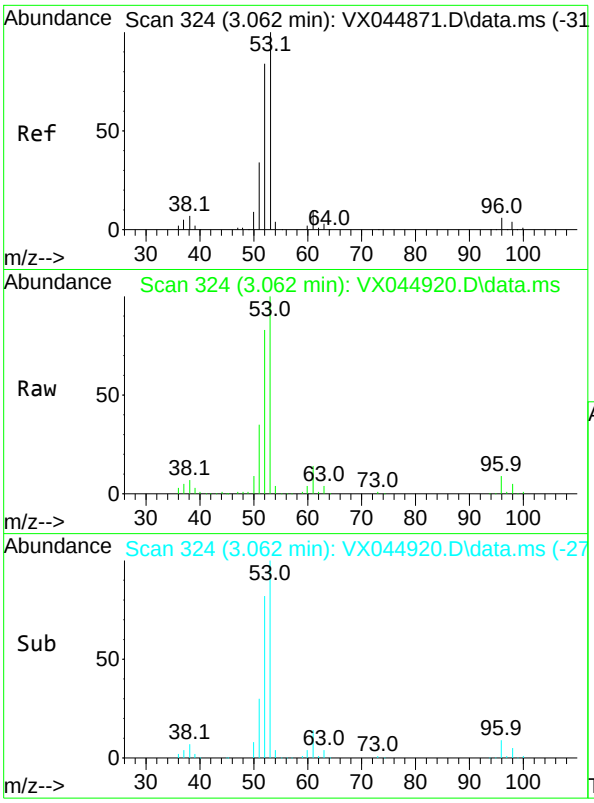


#14
Allyl chloride
Concen: 48.073 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 41 Resp: 134496

Ion	Ratio	Lower	Upper
41	100		
39	67.2	51.4	77.2
76	33.4	27.0	40.4

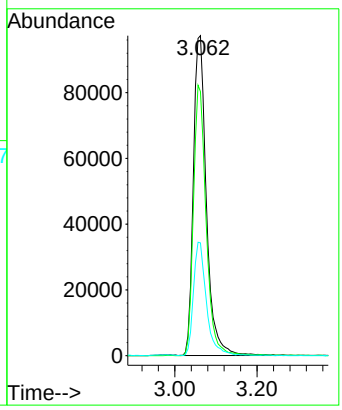




#15
Acrylonitrile
Concen: 245.512 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 53 Resp: 21380

Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.0	97.6
51	35.2	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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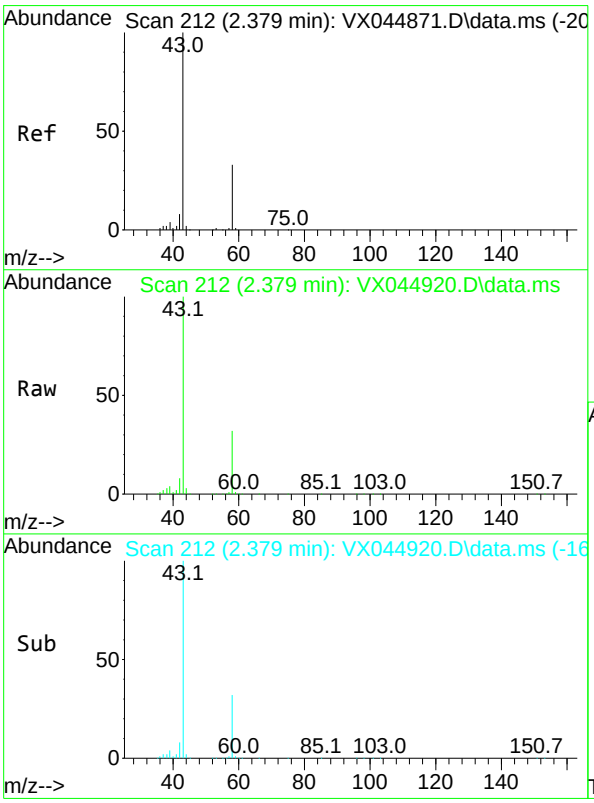
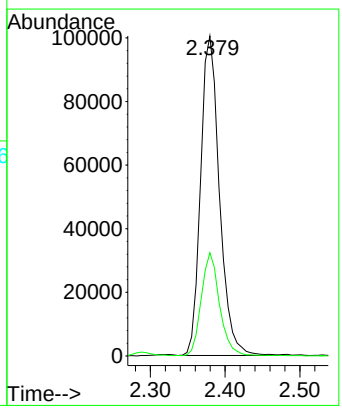
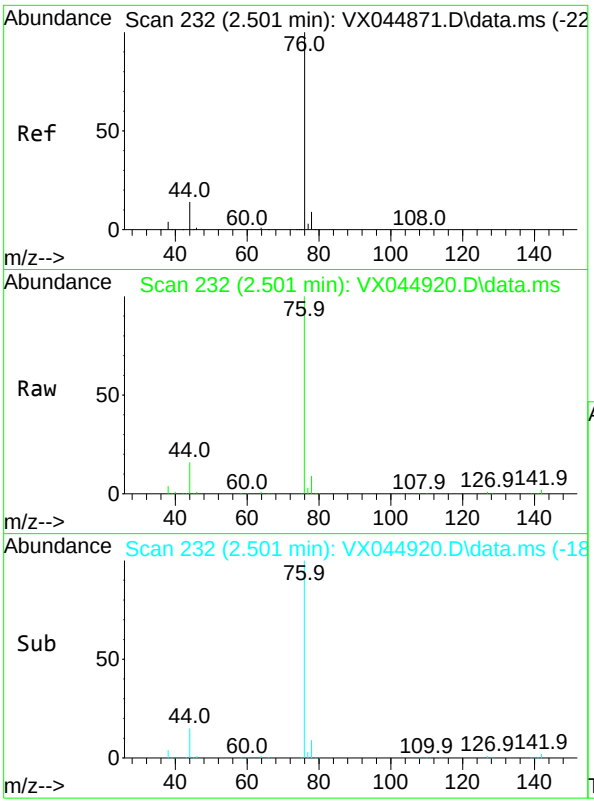


#16
Acetone
Concen: 248.546 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 175667

Ion	Ratio	Lower	Upper
43	100		
58	32.2	26.5	39.7





#17
Carbon Disulfide
Concen: 46.213 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 76 Resp: 19617

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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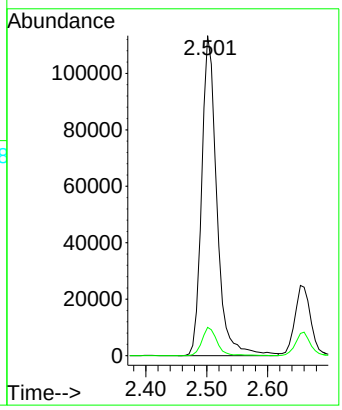
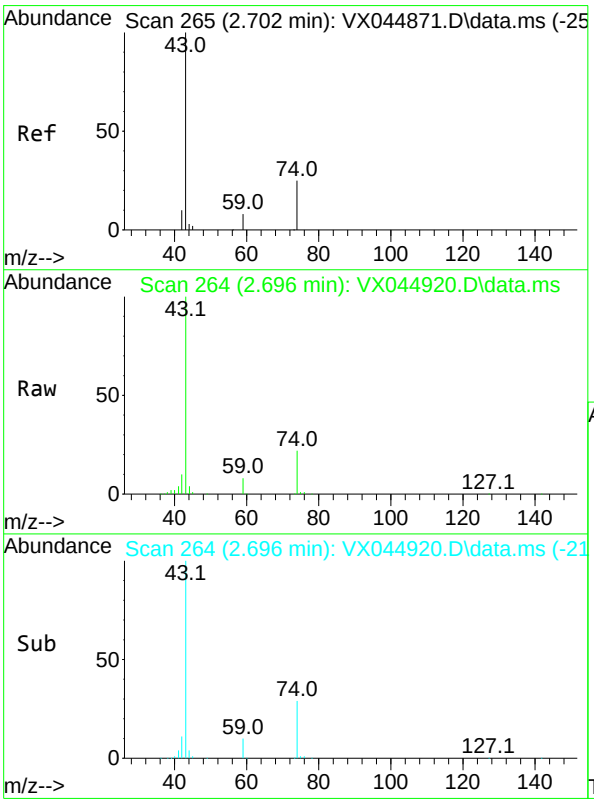
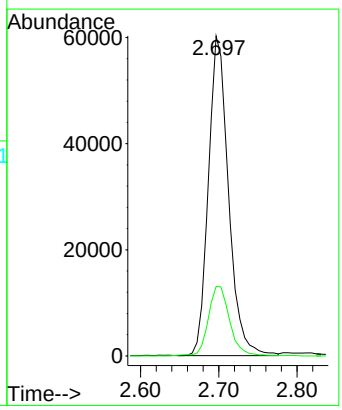


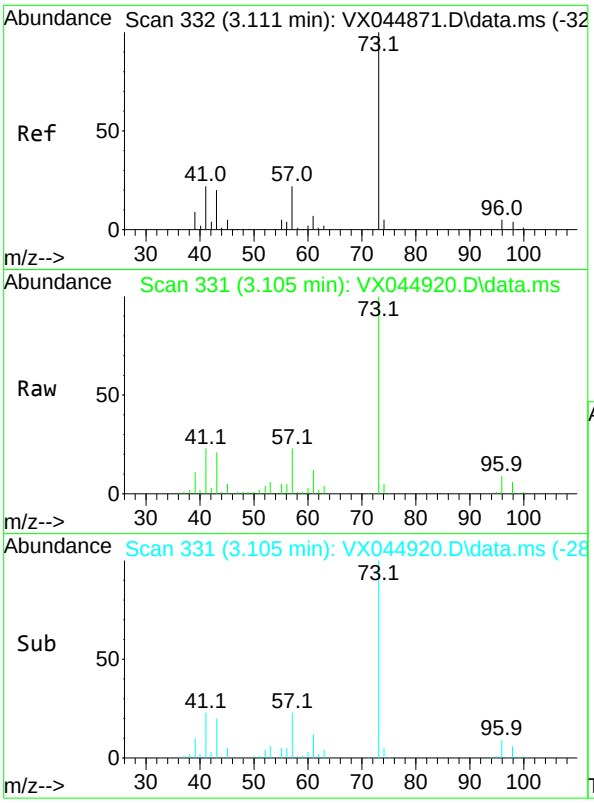


#18
Methyl Acetate
Concen: 48.211 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 107526

Ion	Ratio	Lower	Upper
43	100		
74	23.1	18.9	28.3

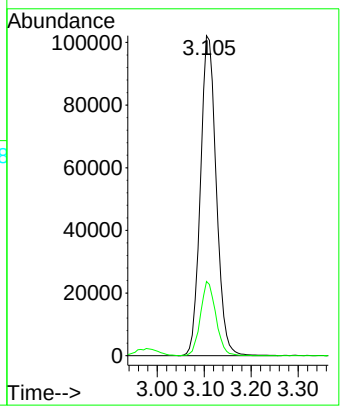




#19
Methyl tert-butyl Ether
Concen: 48.574 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 73 Resp: 23925

Ion	Ratio	Lower	Upper
73	100		
57	23.2	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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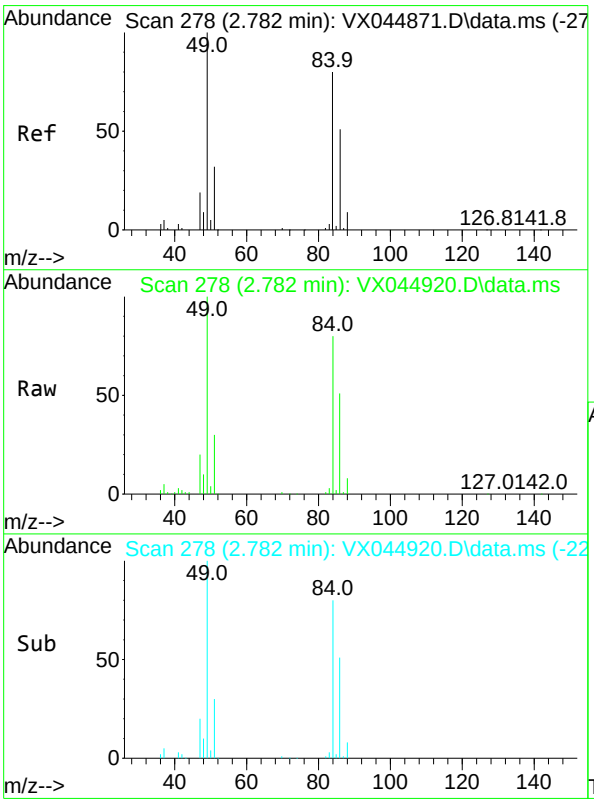
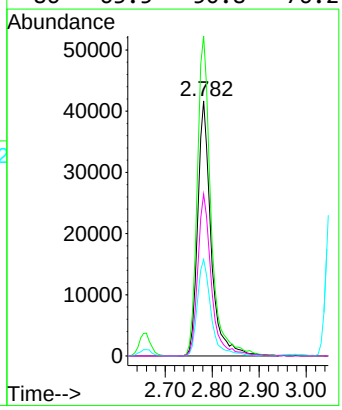
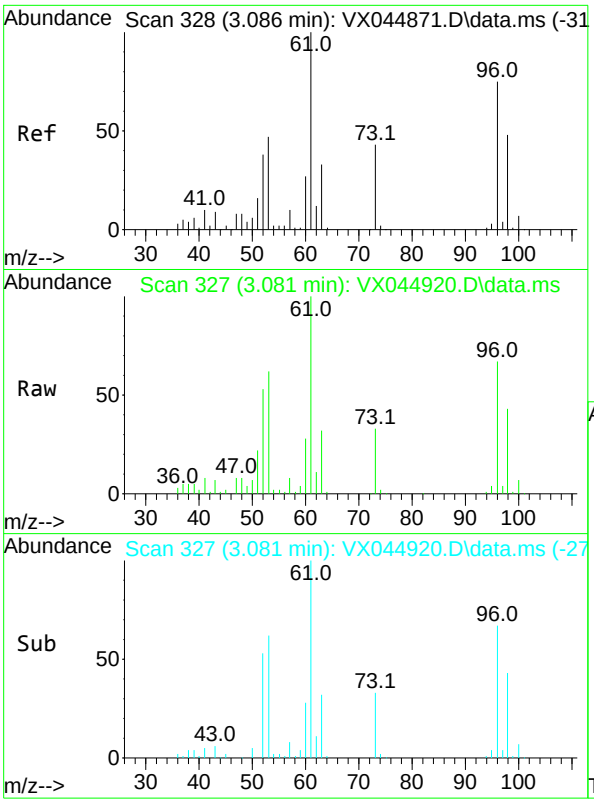


#20
Methylene Chloride
Concen: 47.678 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 84 Resp: 82539

Ion	Ratio	Lower	Upper
84	100		
49	125.5	100.1	150.1
51	37.8	31.7	47.5
86	63.5	50.8	76.2

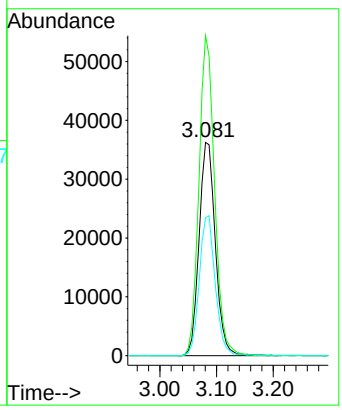




#21
trans-1,2-Dichloroethene
Concen: 47.344 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 96 Resp: 7213

Ion	Ratio	Lower	Upper
96	100		
61	150.0	106.0	159.0
98	64.6	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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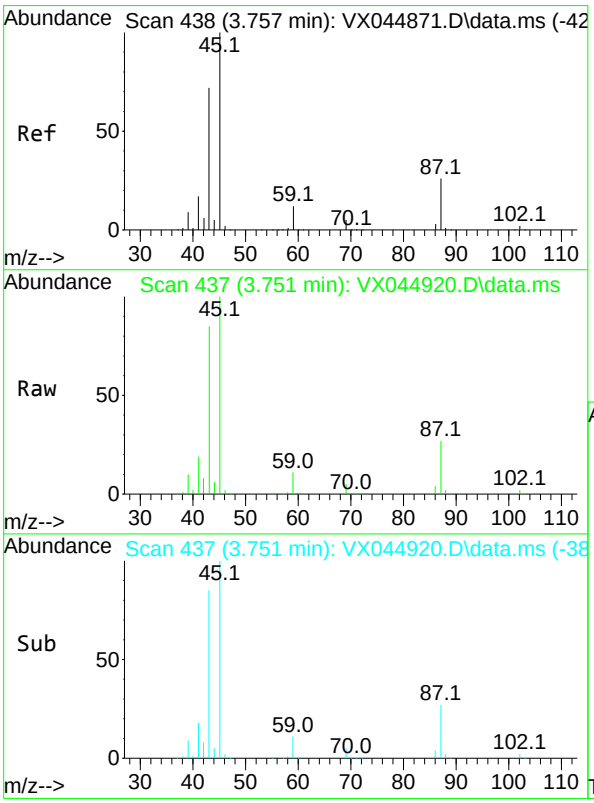
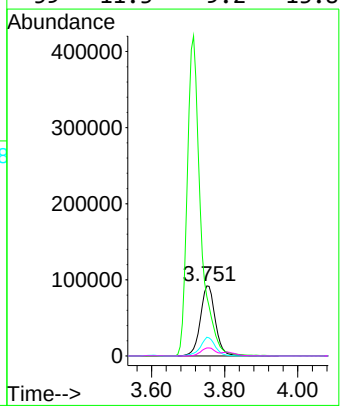
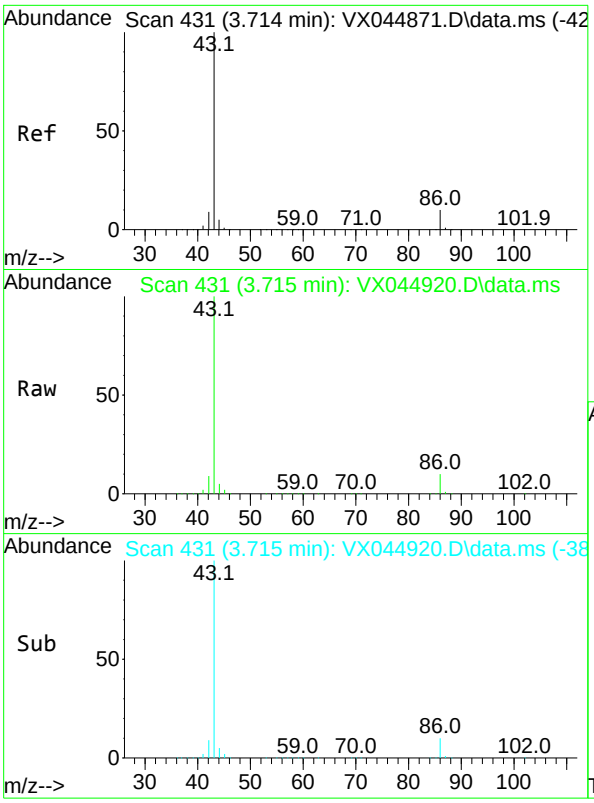


#22
Diisopropyl ether
Concen: 49.465 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 45 Resp: 261816

Ion	Ratio	Lower	Upper
45	100		
43	84.1	58.0	87.0
87	26.6	20.7	31.1
59	11.3	9.2	13.8

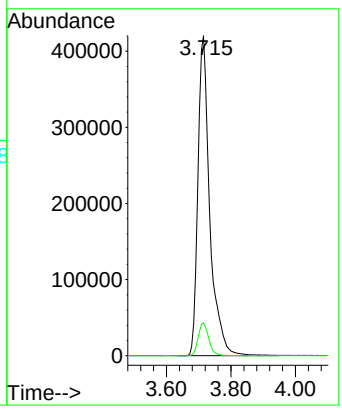




#23
Vinyl Acetate
Concen: 248.365 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 107172

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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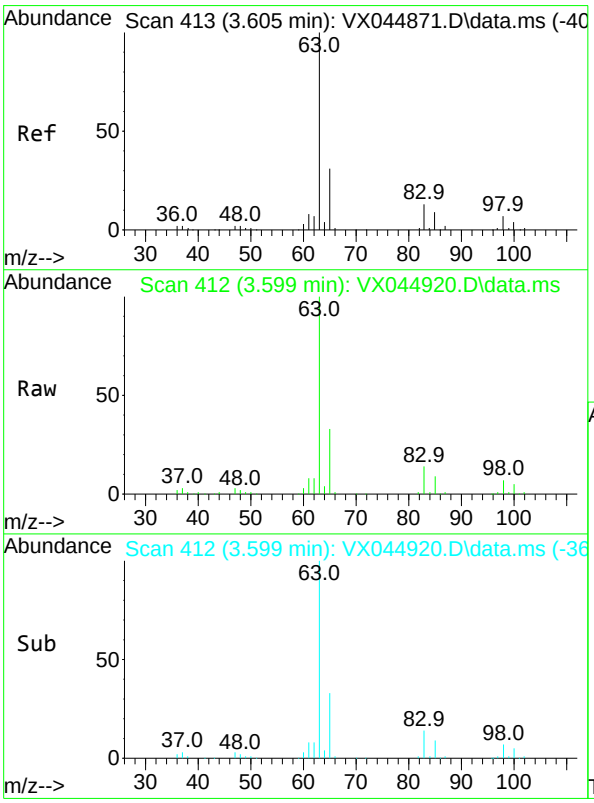
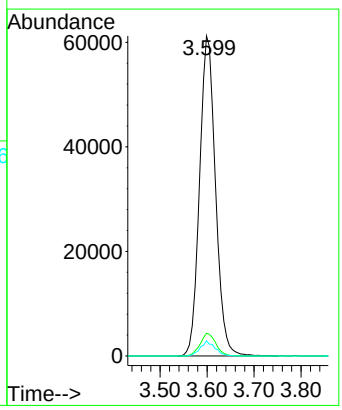
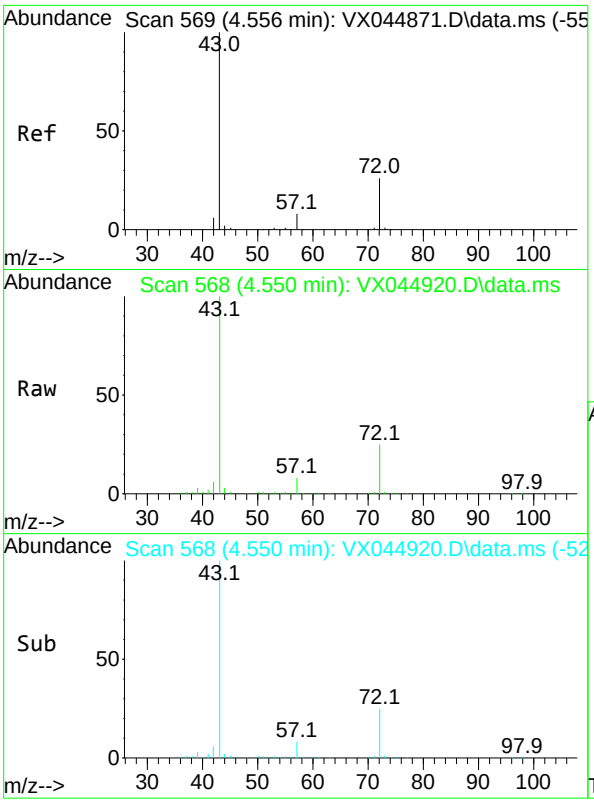


#24
1,1-Dichloroethane
Concen: 48.732 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 63 Resp: 144325

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.3	9.9
100	4.7	2.1	6.5

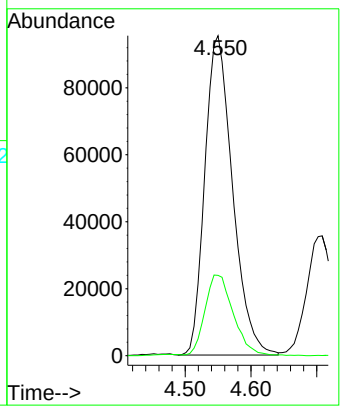




#25
2-Butanone
Concen: 243.912 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 27993

Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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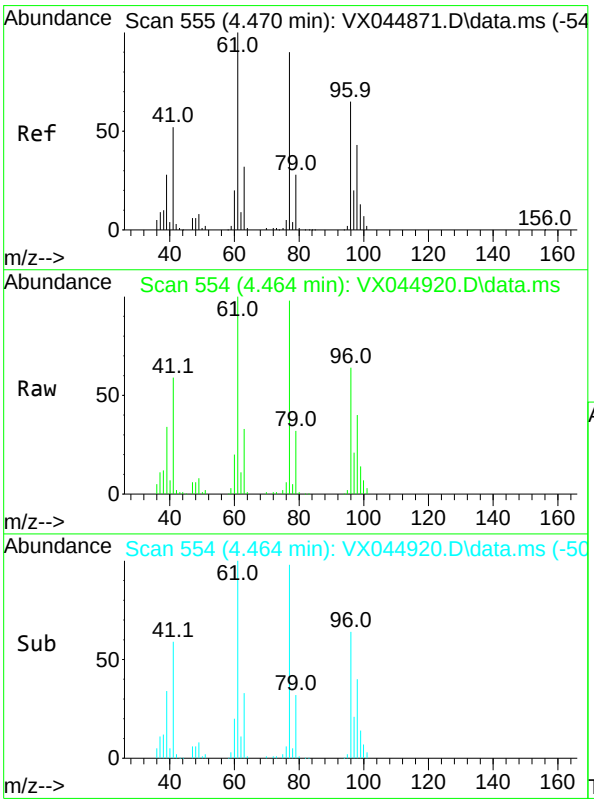
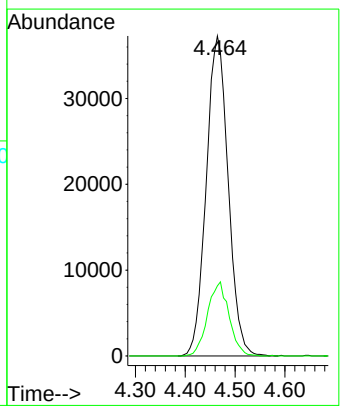
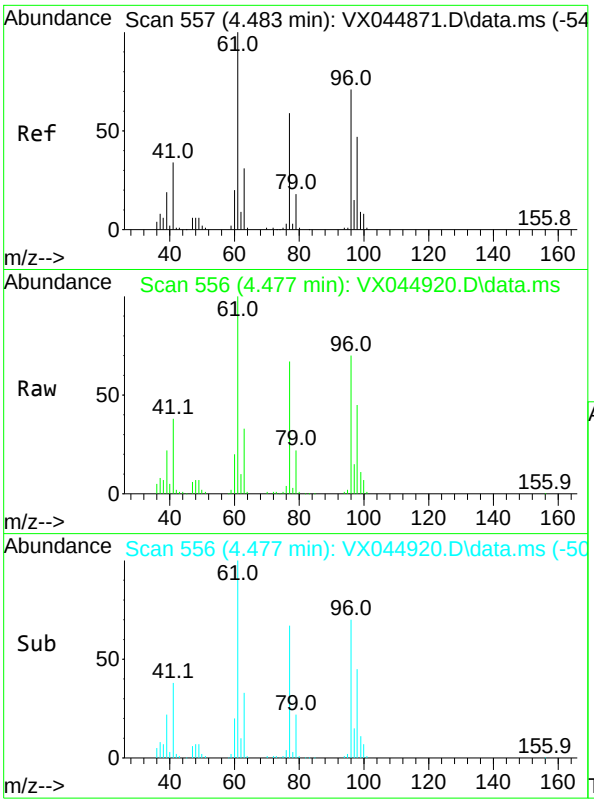


#26
2,2-Dichloropropane
Concen: 48.481 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 77 Resp: 113866

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.8	35.3

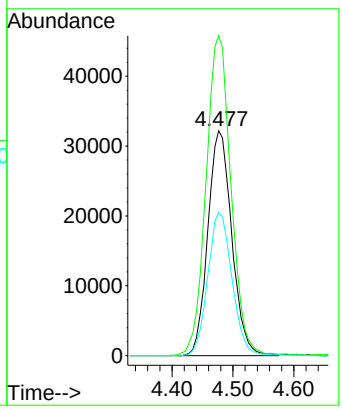




#27
cis-1,2-Dichloroethene
Concen: 48.076 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 96 Resp: 8798

Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	294.0
98	64.4	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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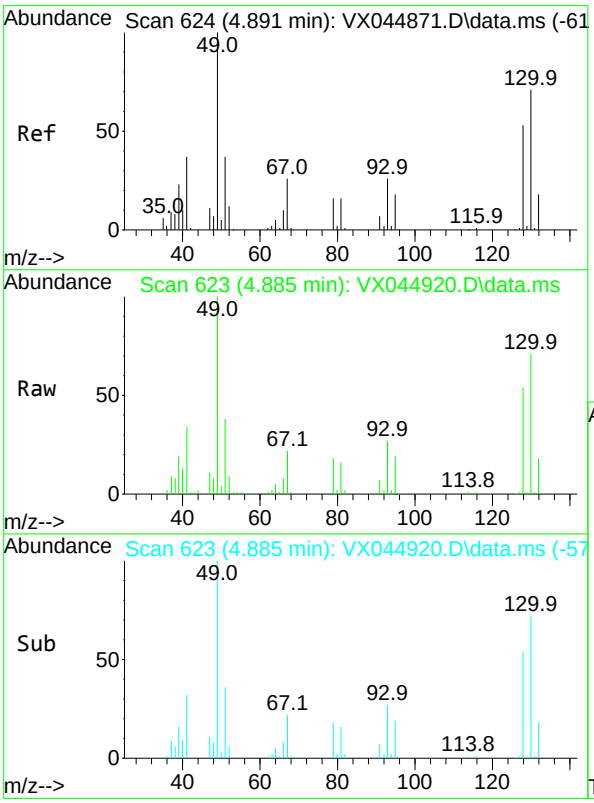
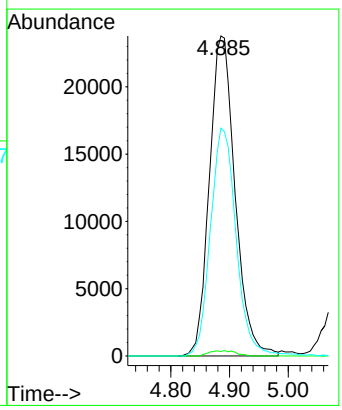
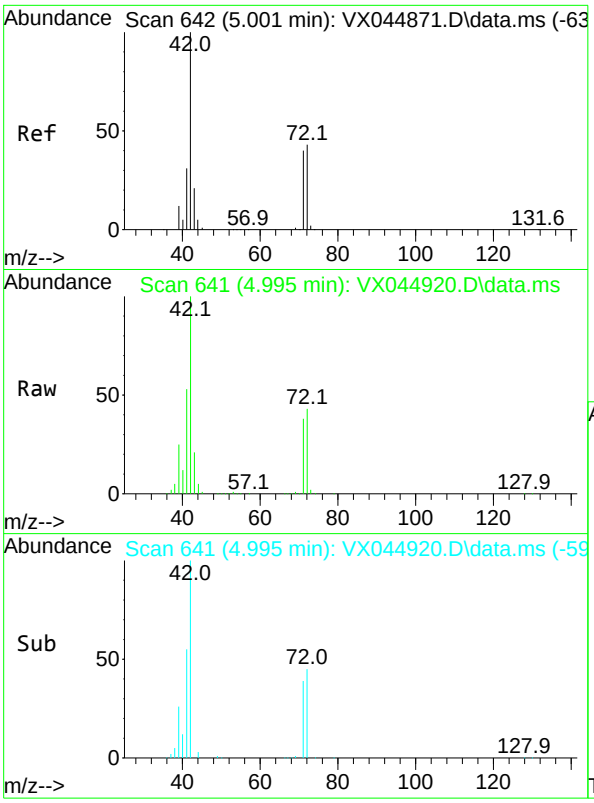


#28
Bromochloromethane
Concen: 50.687 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 49 Resp: 72142

Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	3.6
130	71.4	56.7	85.1

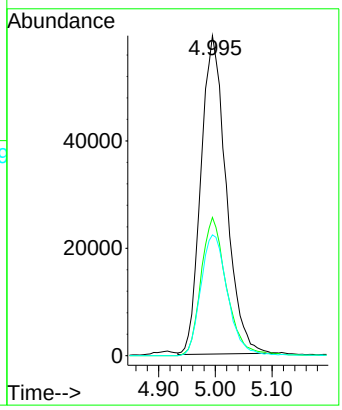




#29
Tetrahydrofuran
Concen: 240.180 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 42 Resp: 18303

Ion	Ratio	Lower	Upper
42	100		
72	44.0	35.0	52.4
71	40.2	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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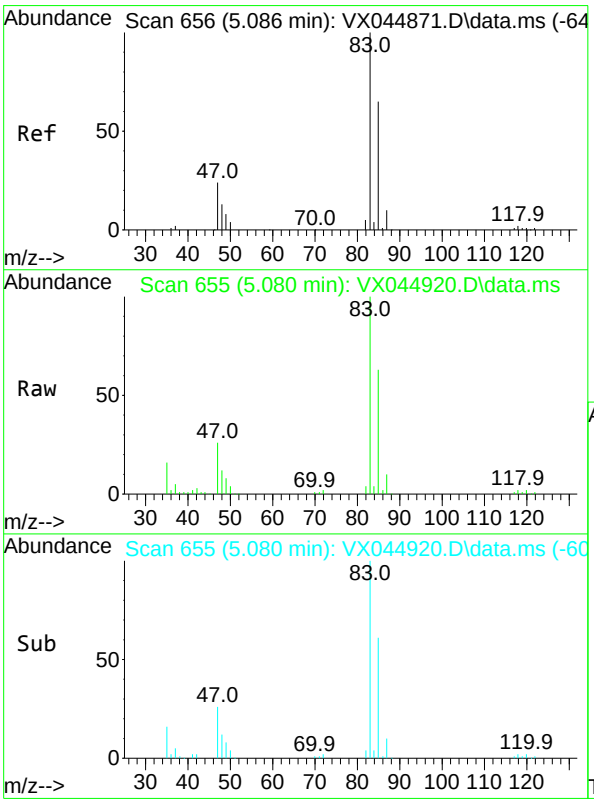
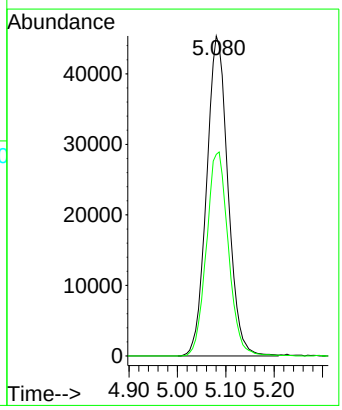
Supervised By :Mahesh Dadoda 02/14/2025

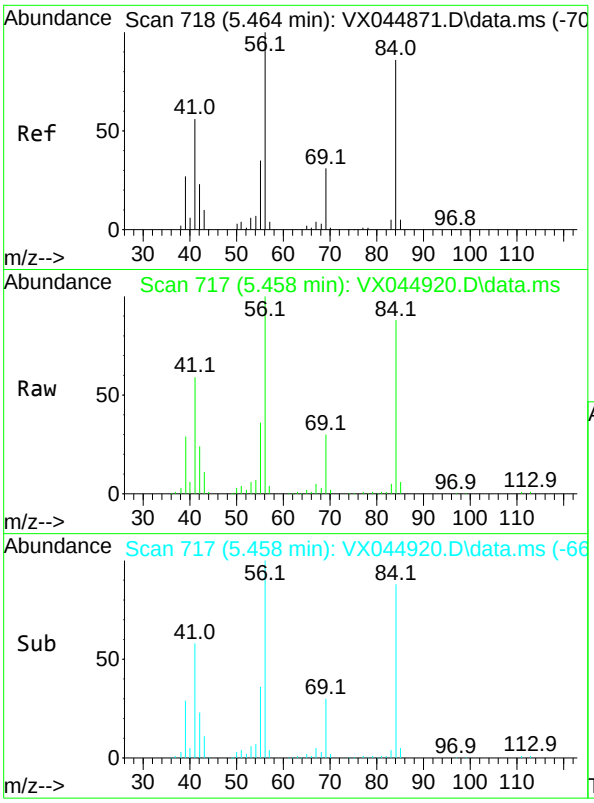


#30
Chloroform
Concen: 48.459 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 83 Resp: 139181

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.1	78.1

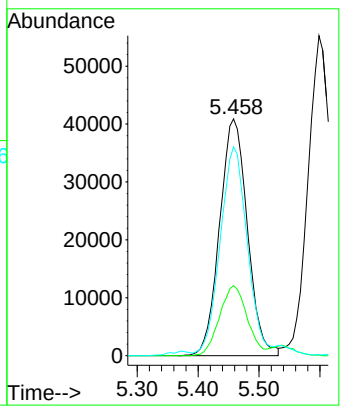




#31
Cyclohexane
Concen: 47.478 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 56 Resp: 12963

Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.4	36.6
84	86.6	69.0	103.6



Instrument :
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ClientSampleId :
VSTDCCC050

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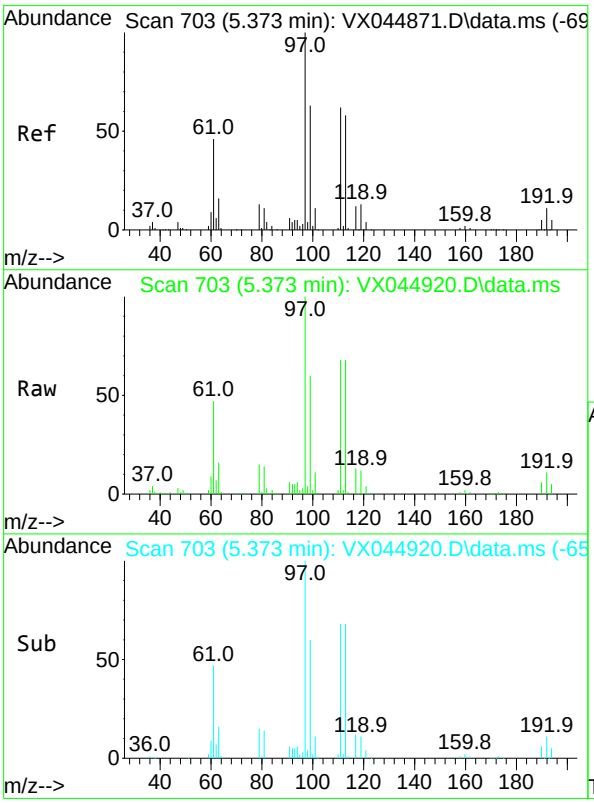
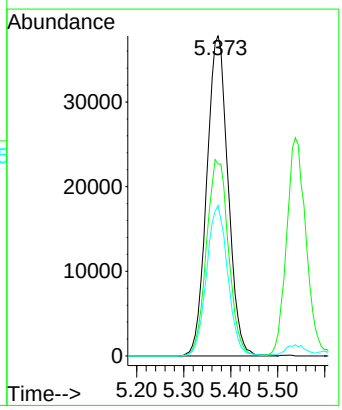
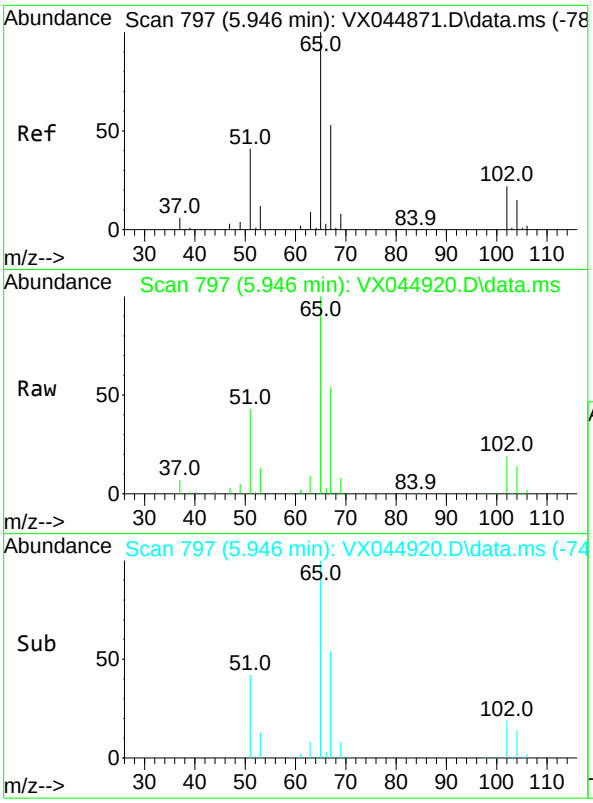


#32
1,1,1-Trichloroethane
Concen: 48.724 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 97 Resp: 118700

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.0	76.6
61	47.0	36.6	55.0

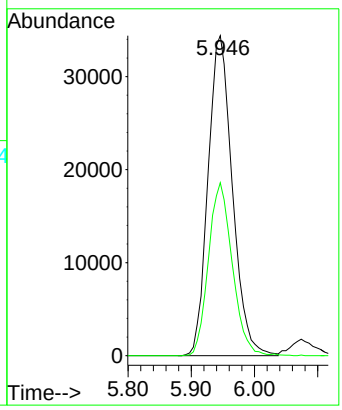




#33
1,2-Dichloroethane-d4
Concen: 52.302 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 65 Resp: 9195

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	108.2



Instrument :
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ClientSampleId :
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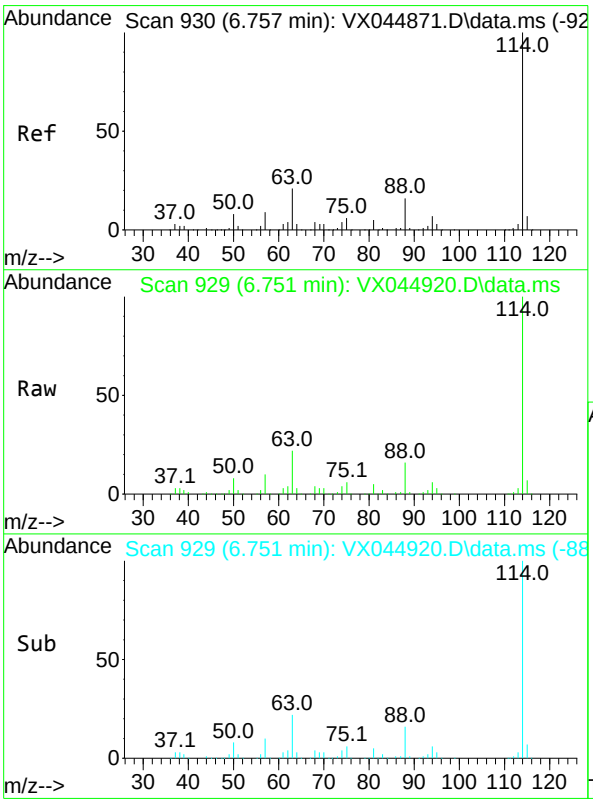
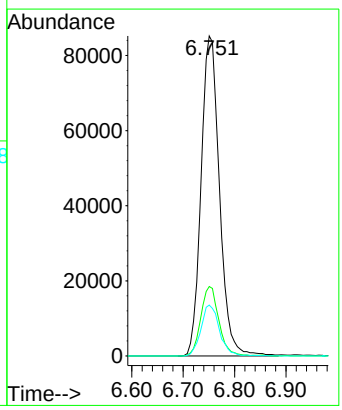
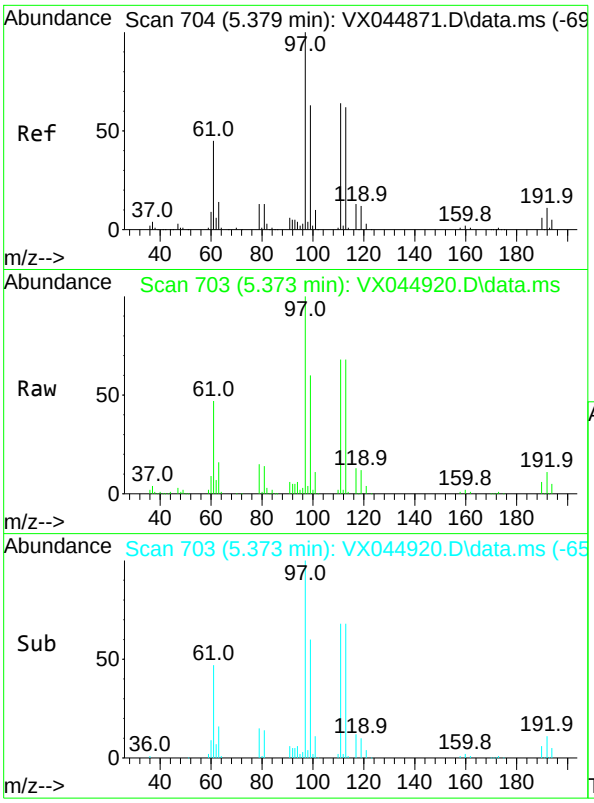


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:114 Resp: 211946

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	42.4
88	15.9	0.0	31.4

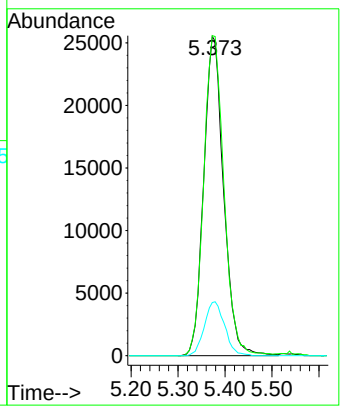




#35
Dibromofluoromethane
Concen: 54.340 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:113 Resp: 7488

Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.5	125.3
192	17.2	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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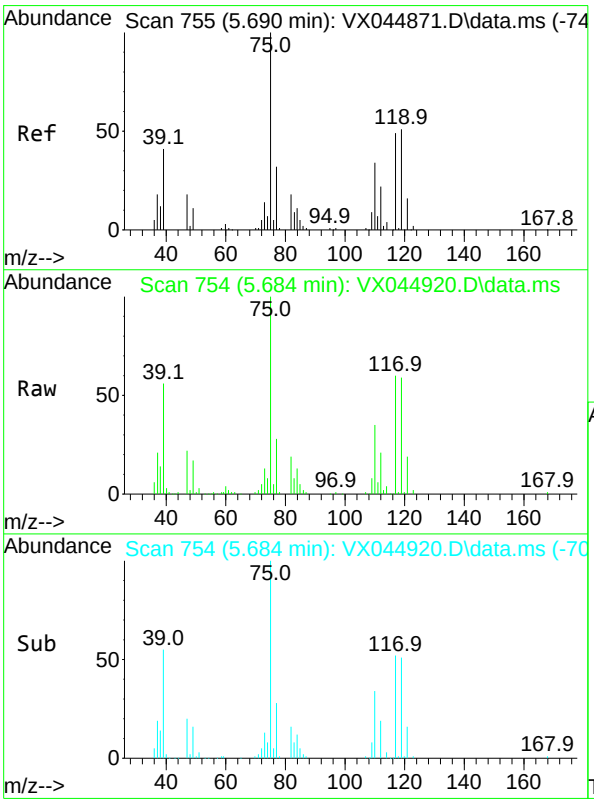
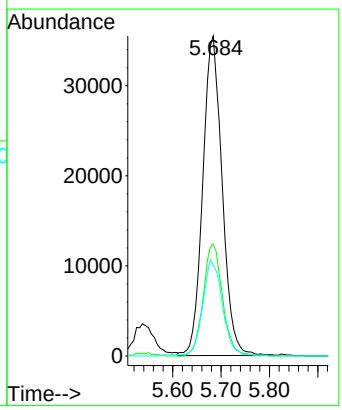
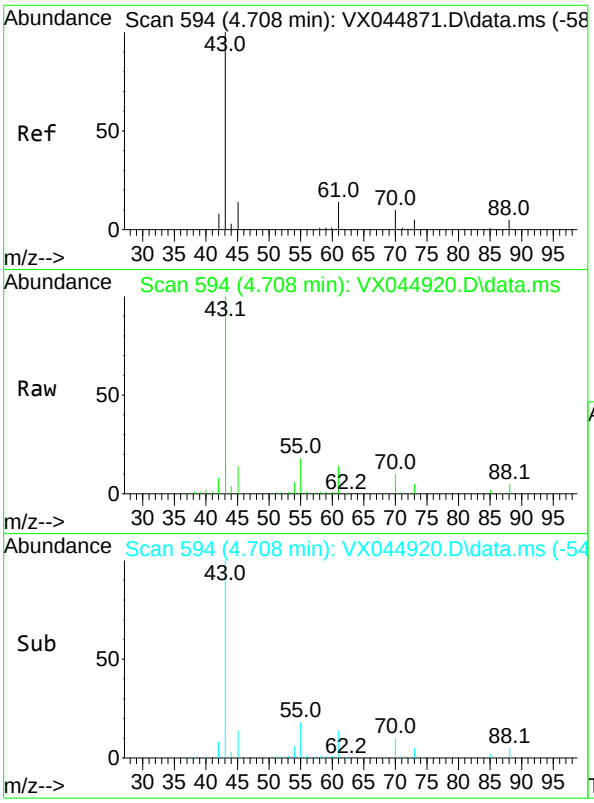


#36
1,1-Dichloropropene
Concen: 49.631 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 98671

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.2	51.6
77	30.5	24.6	37.0

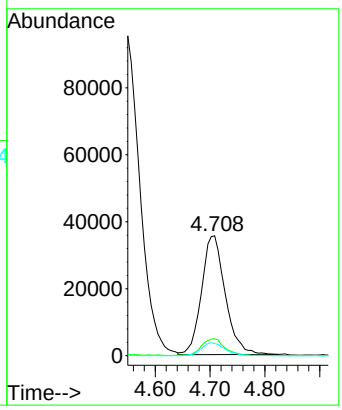




#37
Ethyl Acetate
Concen: 48.172 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 10652

Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.0	16.4
70	10.7	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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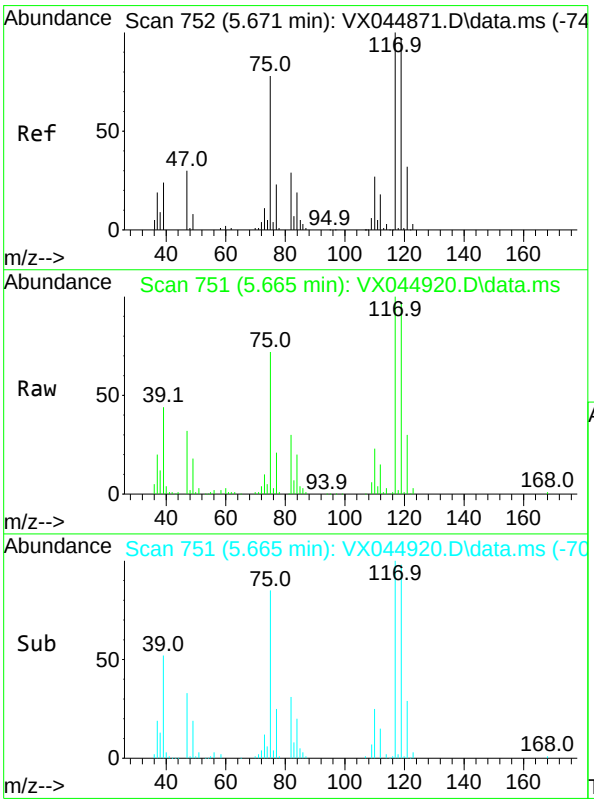
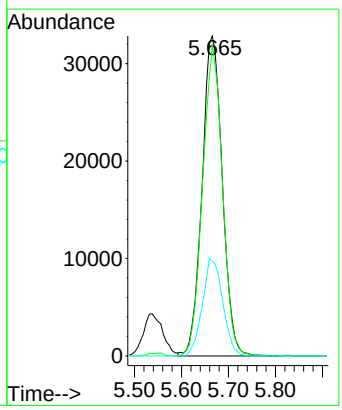
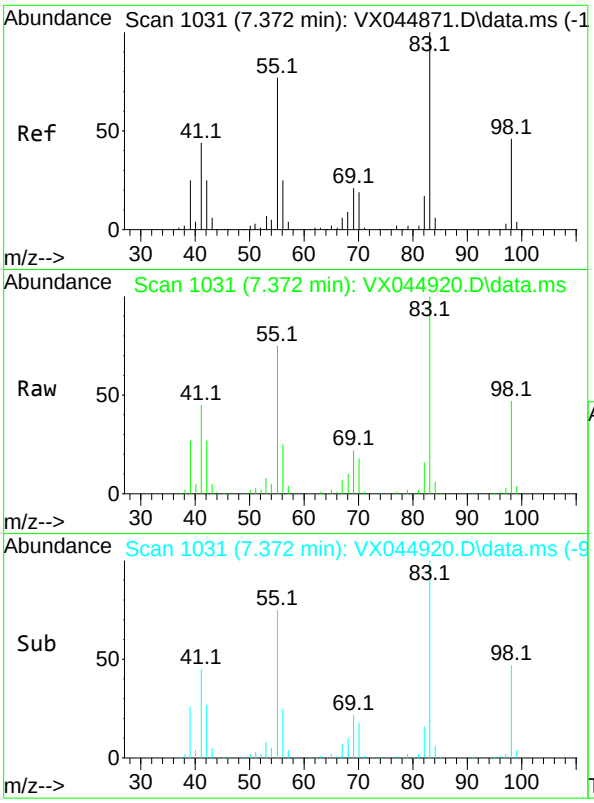


#38
Carbon Tetrachloride
Concen: 50.355 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:117 Resp: 98102

Ion	Ratio	Lower	Upper
117	100		
119	97.1	77.5	116.3
121	29.7	25.6	38.4

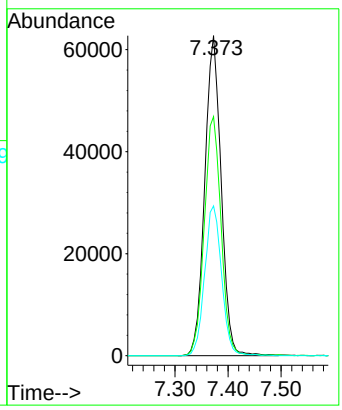




#39
Methylcyclohexane
Concen: 52.425 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 83 Resp: 13474

Ion	Ratio	Lower	Upper
83	100		
55	74.7	61.3	91.9
98	46.8	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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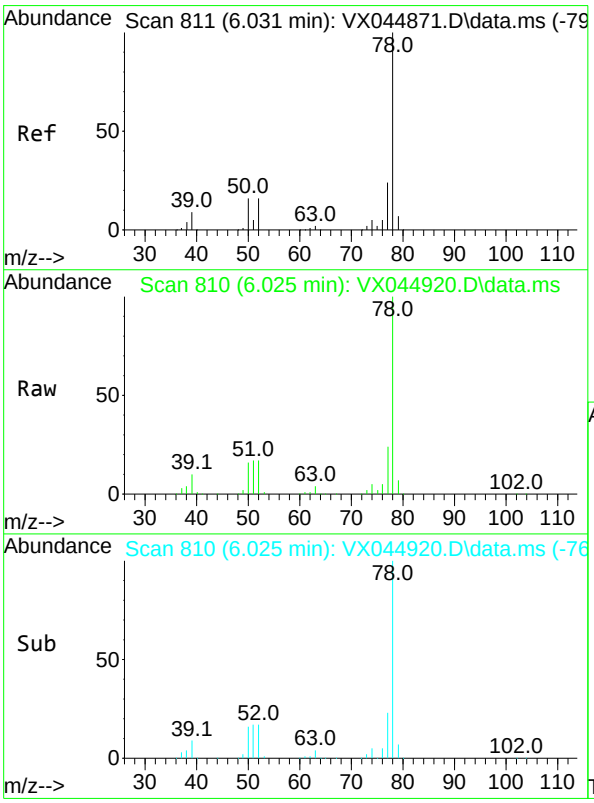
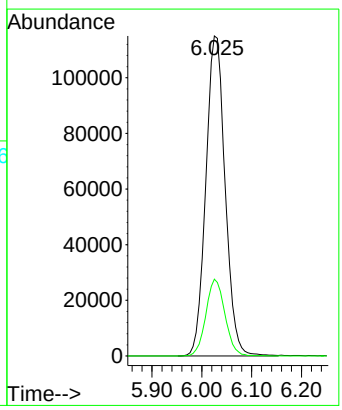
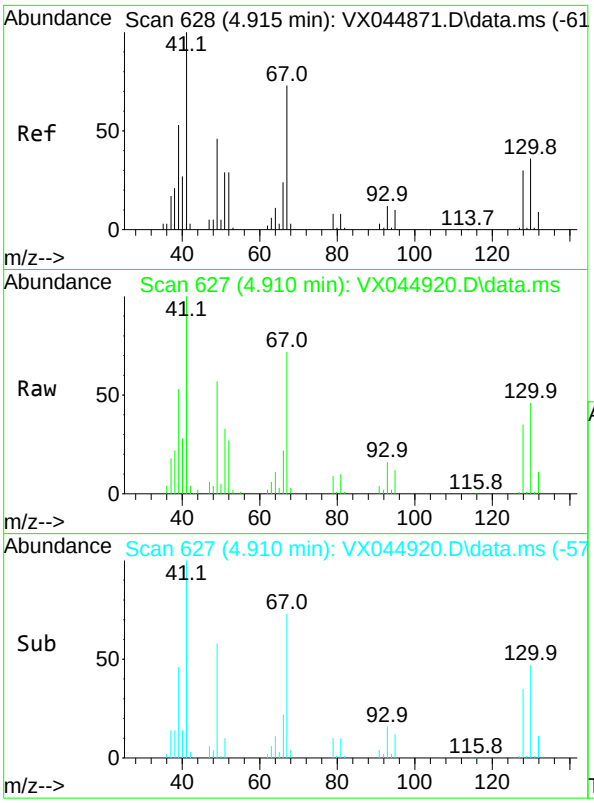


#40
Benzene
Concen: 49.781 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 78 Resp: 309040

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6

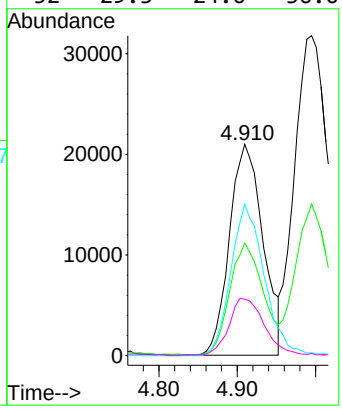




#41
Methacrylonitrile
Concen: 52.708 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 41 Resp: 6238

Ion	Ratio	Lower	Upper
41	100		
39	53.1	43.1	64.7
67	72.3	57.0	85.6
52	29.3	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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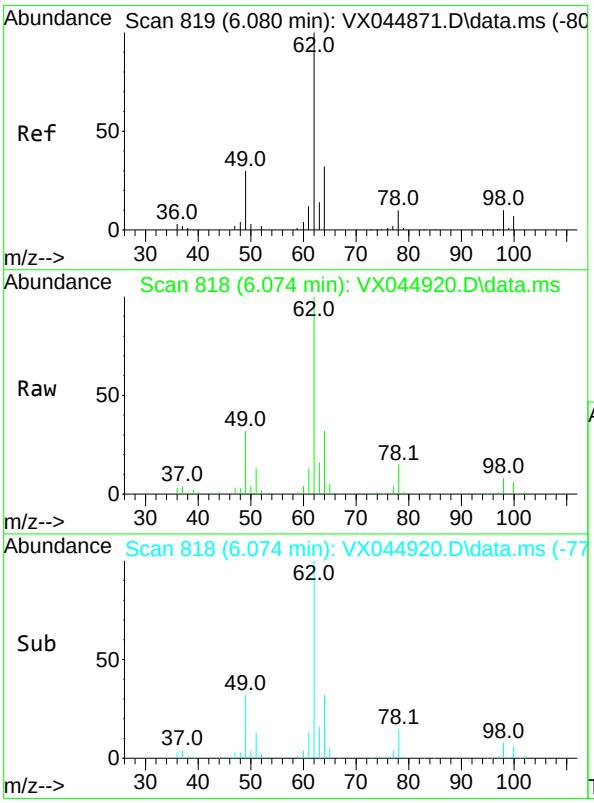
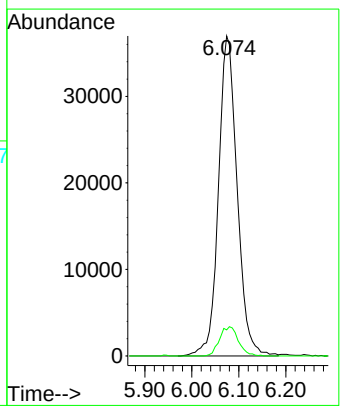
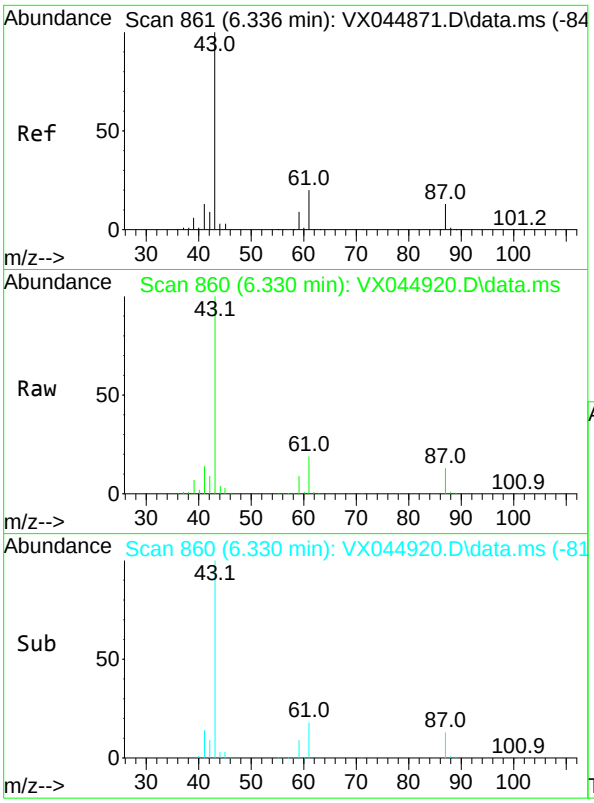


#42
1,2-Dichloroethane
Concen: 51.758 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 62 Resp: 102405

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.4

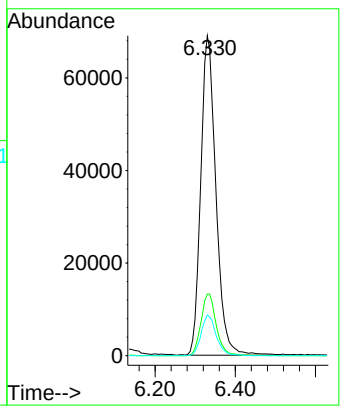




#43
Isopropyl Acetate
Concen: 50.744 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 18120

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.8	23.8
87	12.6	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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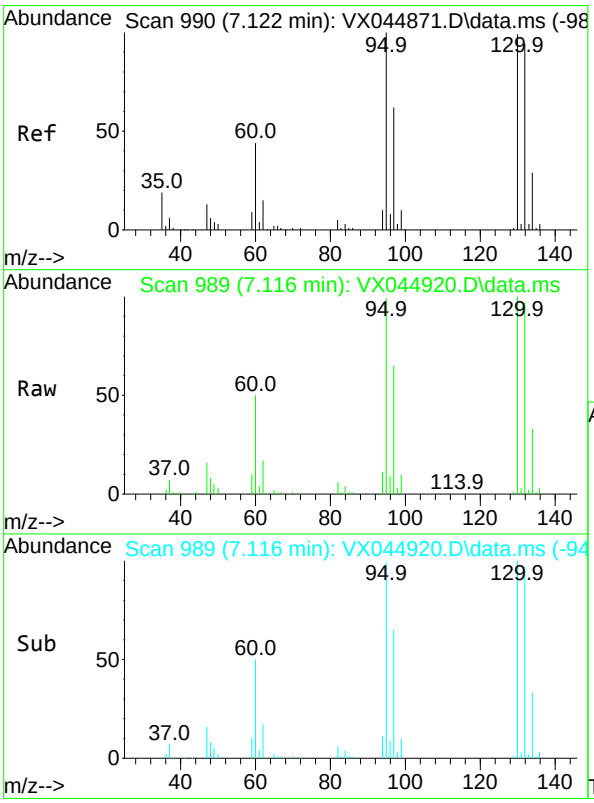
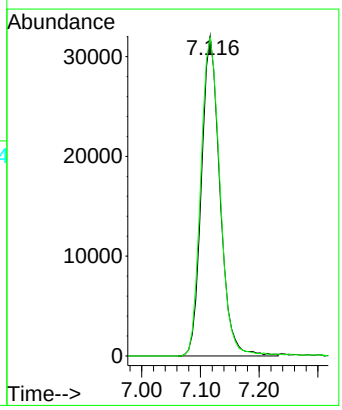
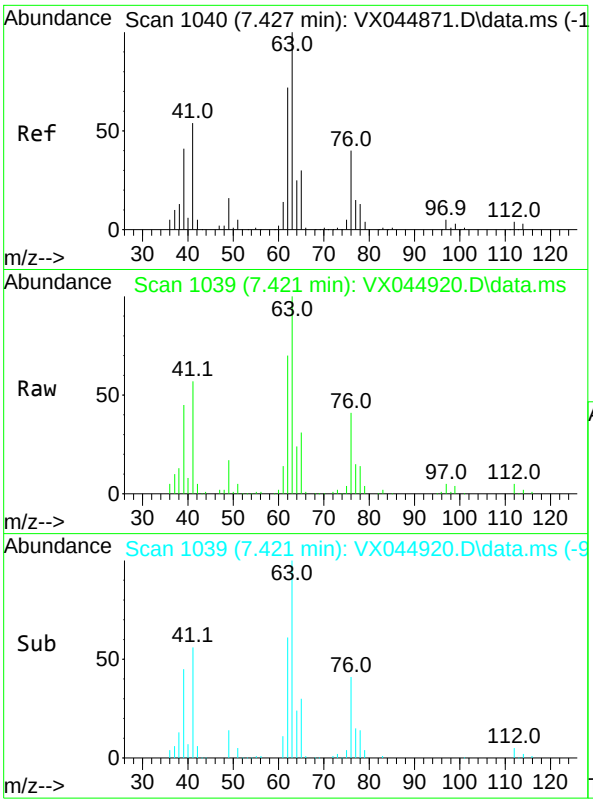


#44
Trichloroethene
Concen: 49.313 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:130 Resp: 69974

Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	202.4

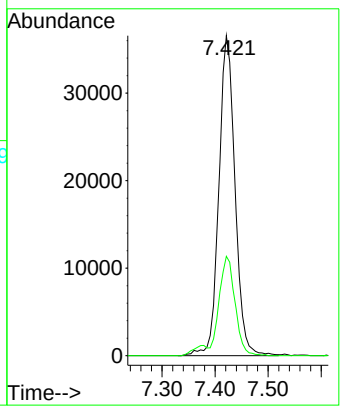




#45
1,2-Dichloropropane
Concen: 50.178 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 63 Resp: 7749

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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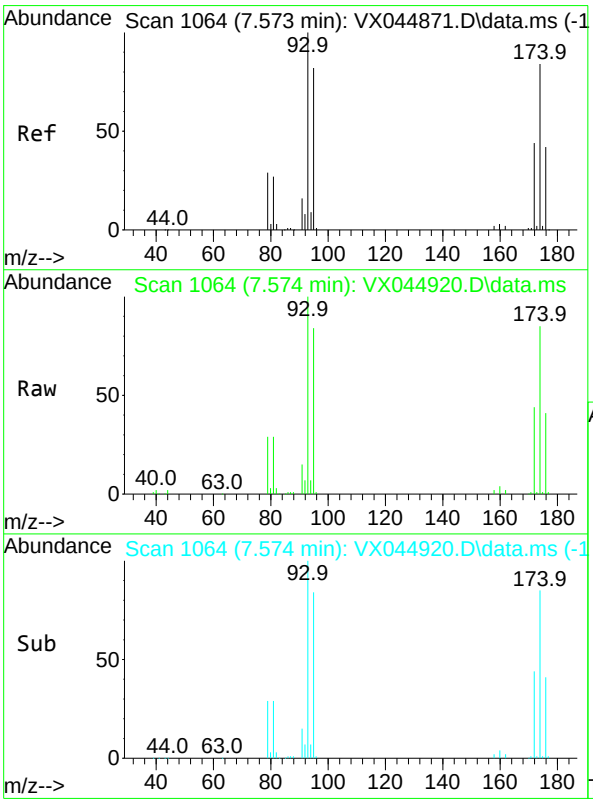
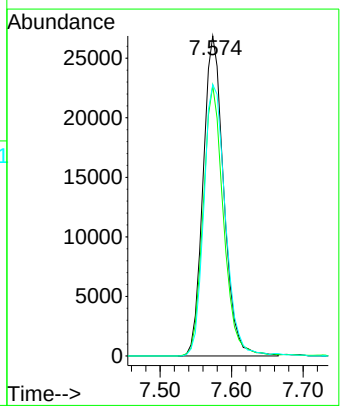
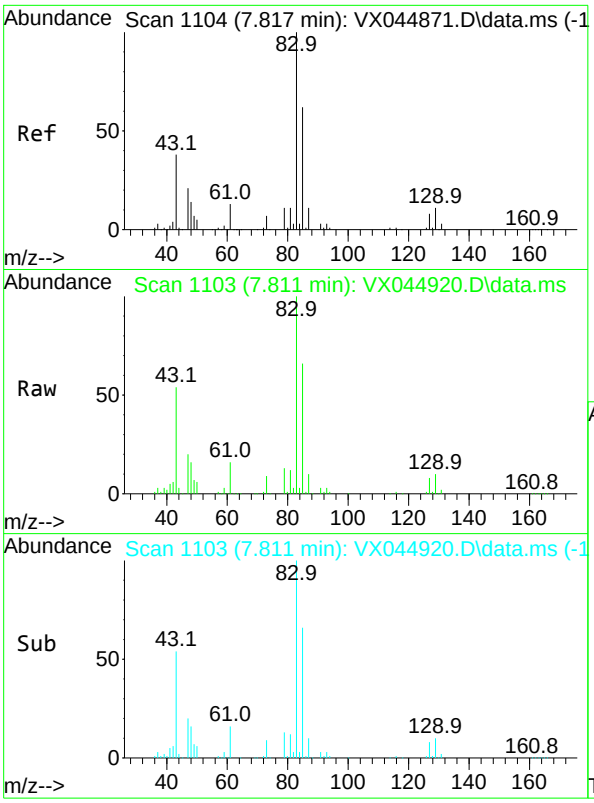


#46
Dibromomethane
Concen: 50.143 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 93 Resp: 53707

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.2	99.4
174	88.4	69.9	104.9

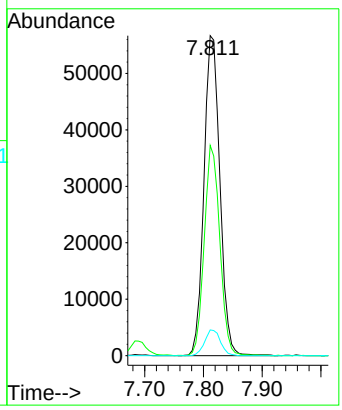




#47
Bromodichloromethane
Concen: 51.579 ug/l
RT: 7.811 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 83 Resp: 10697

Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.0	75.0
127	8.1	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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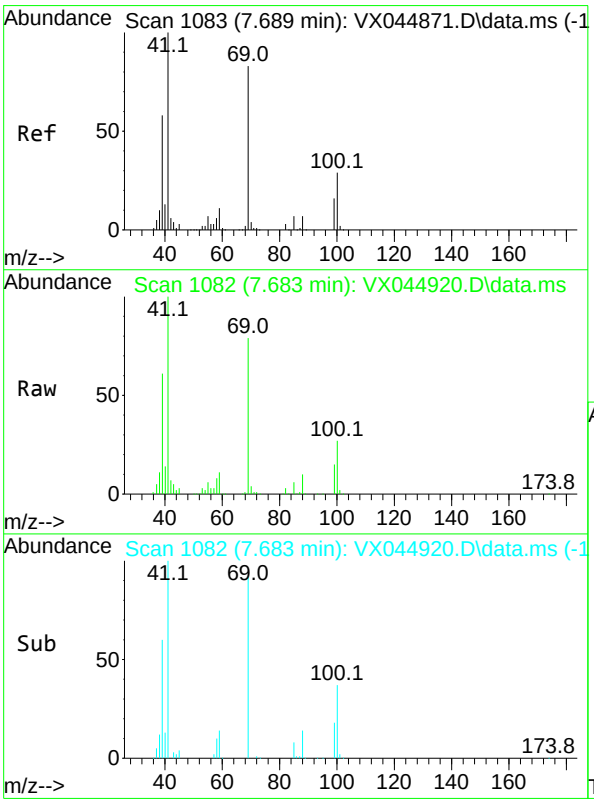
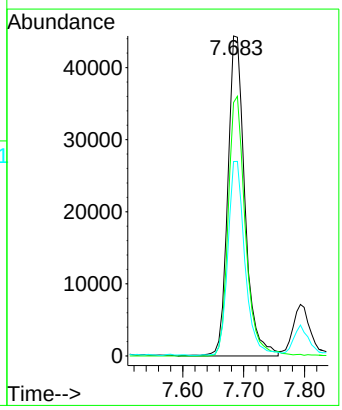
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

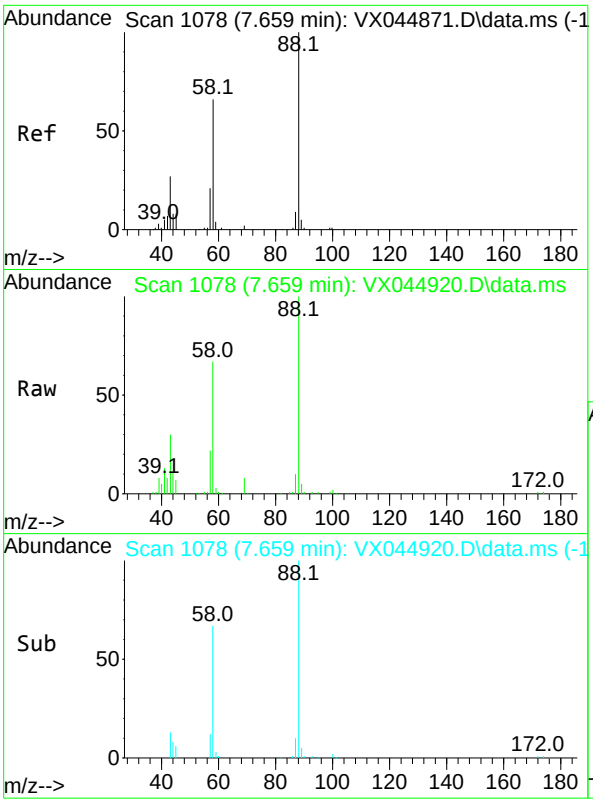


#48
Methyl methacrylate
Concen: 51.258 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 41 Resp: 86305

Ion	Ratio	Lower	Upper
41	100		
69	81.4	65.8	98.8
39	60.2	46.4	69.6

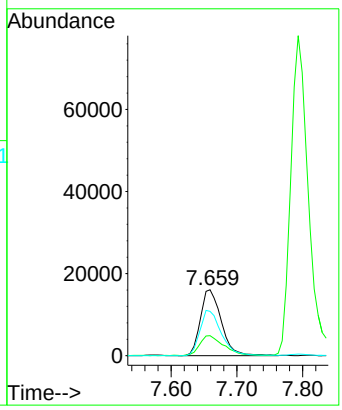




#49
1,4-Dioxane
Concen: 981.246 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 88 Resp: 3544

Ion	Ratio	Lower	Upper
88	100		
43	35.6	26.6	39.8
58	69.8	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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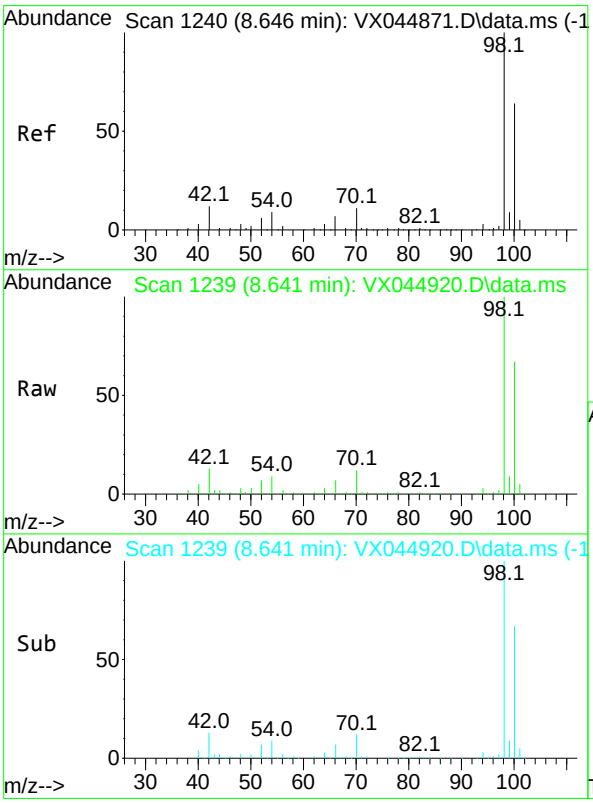
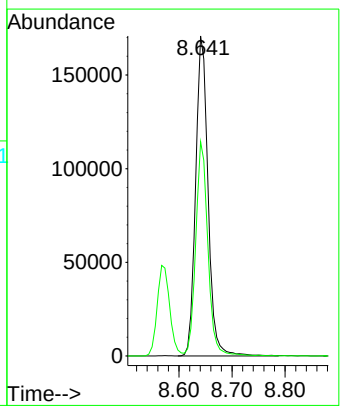
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

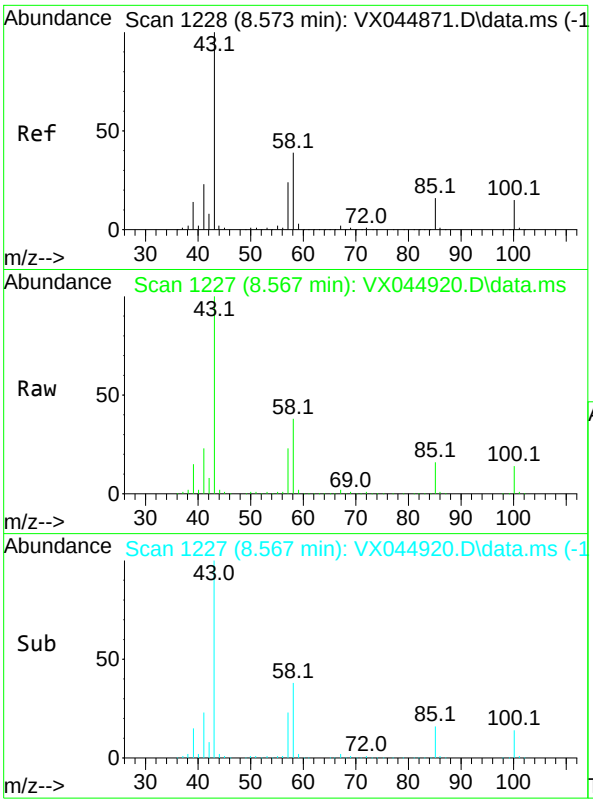


#50
Toluene-d8
Concen: 53.391 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 98 Resp: 278211

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.7	79.1

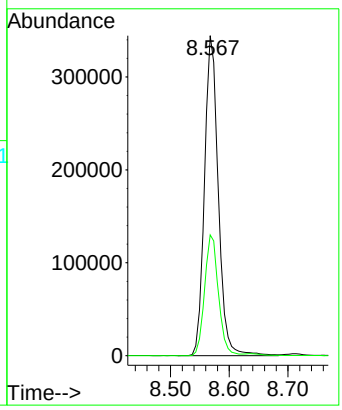




#51
4-Methyl-2-Pentanone
Concen: 259.224 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 56275

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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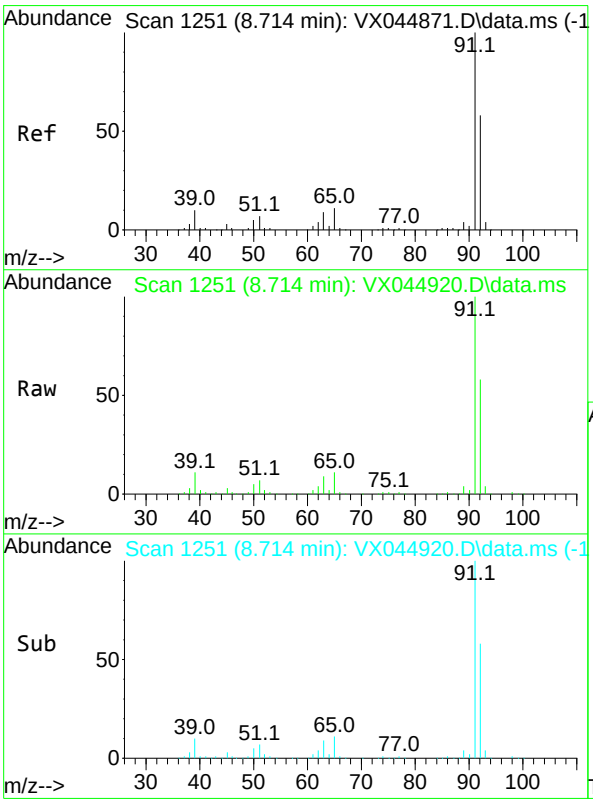
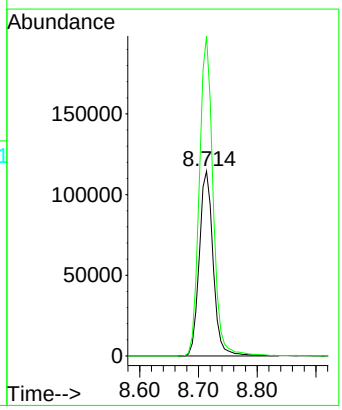
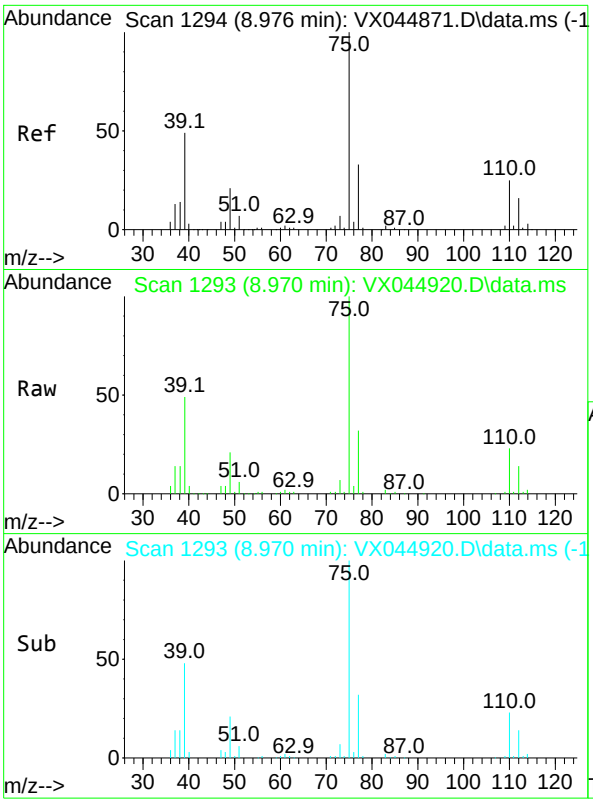


#52
Toluene
Concen: 50.867 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 92 Resp: 188063

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.4	206.2

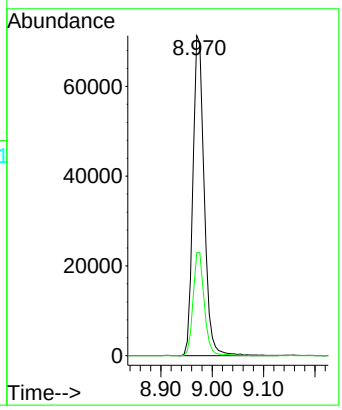




#53
t-1,3-Dichloropropene
Concen: 51.862 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 10884

Ion	Ratio	Lower	Upper
75	100		
77	32.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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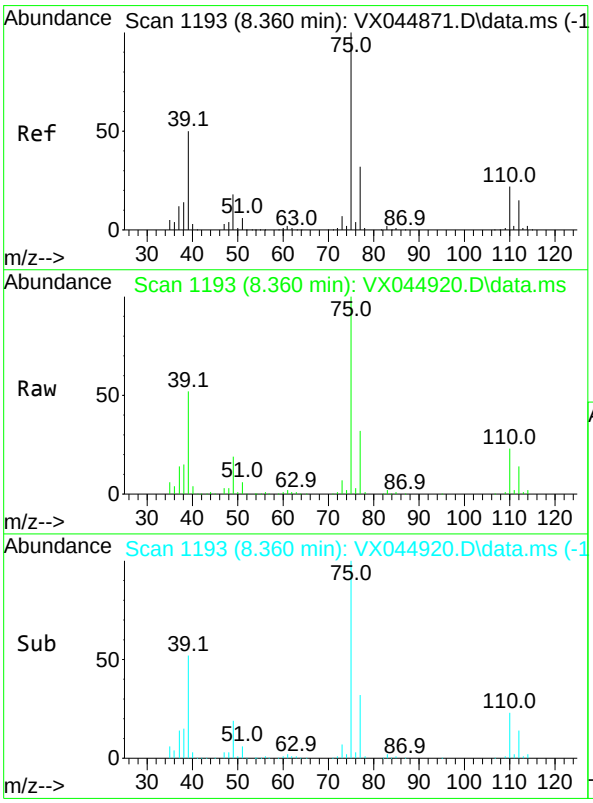
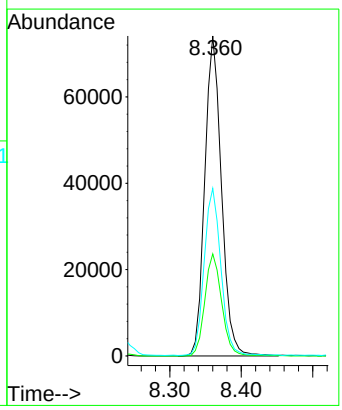
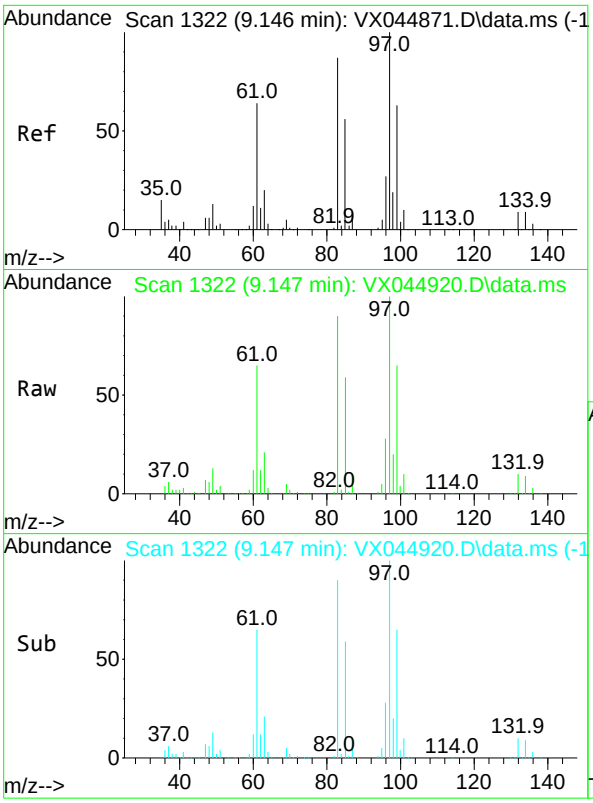


#54
cis-1,3-Dichloropropene
Concen: 51.308 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 120059

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.3	37.9
39	52.2	40.0	60.0

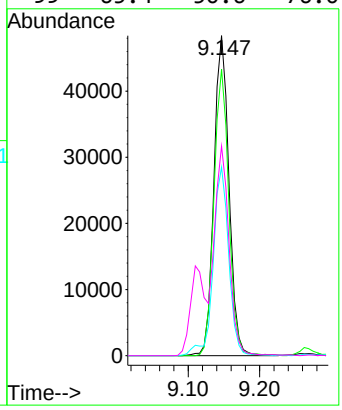




#55
1,1,2-Trichloroethane
Concen: 49.796 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 97 Resp: 7077

Ion	Ratio	Lower	Upper
97	100		
83	89.5	69.8	104.6
85	58.9	44.8	67.2
99	65.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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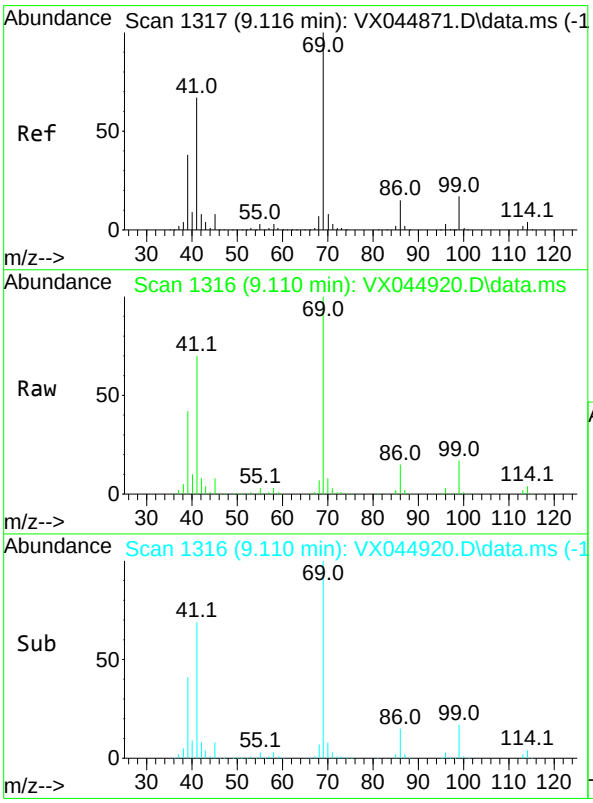
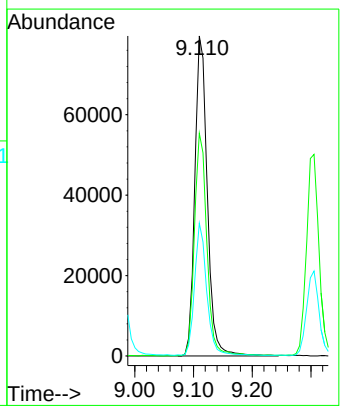
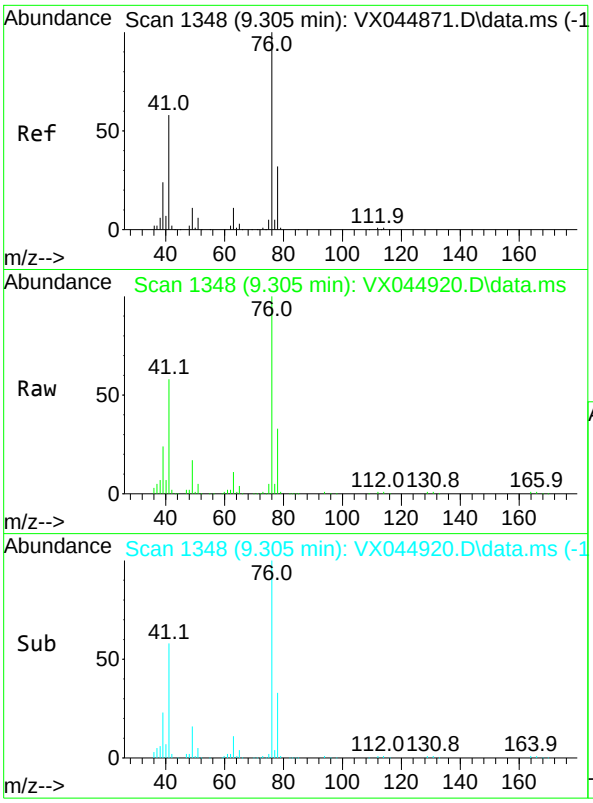


#56
Ethyl methacrylate
Concen: 51.235 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 69 Resp: 117608

Ion	Ratio	Lower	Upper
69	100		
41	69.9	55.2	82.8
39	40.1	30.8	46.2

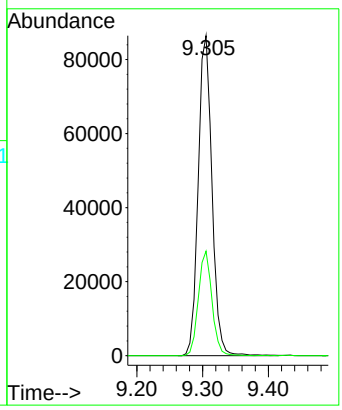




#57
1,3-Dichloropropane
Concen: 50.576 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 76 Resp: 12577

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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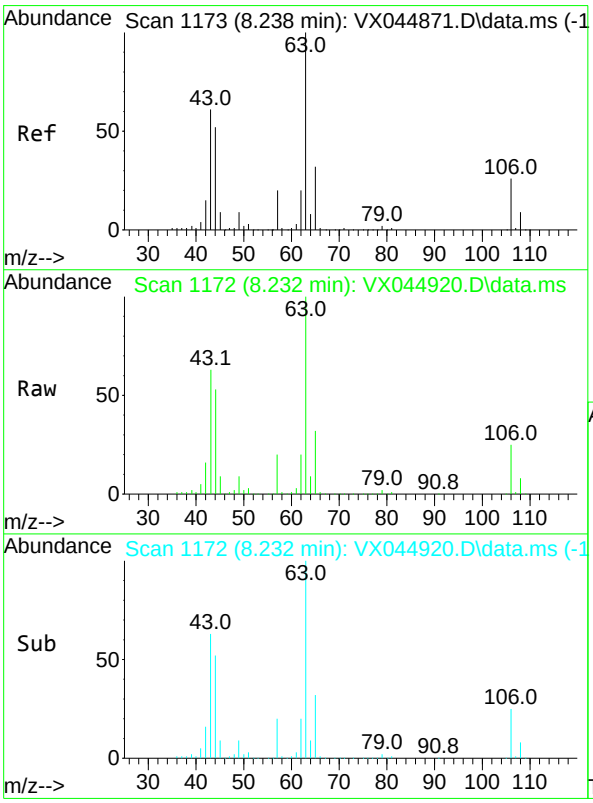
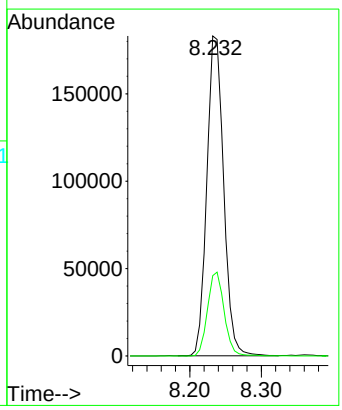
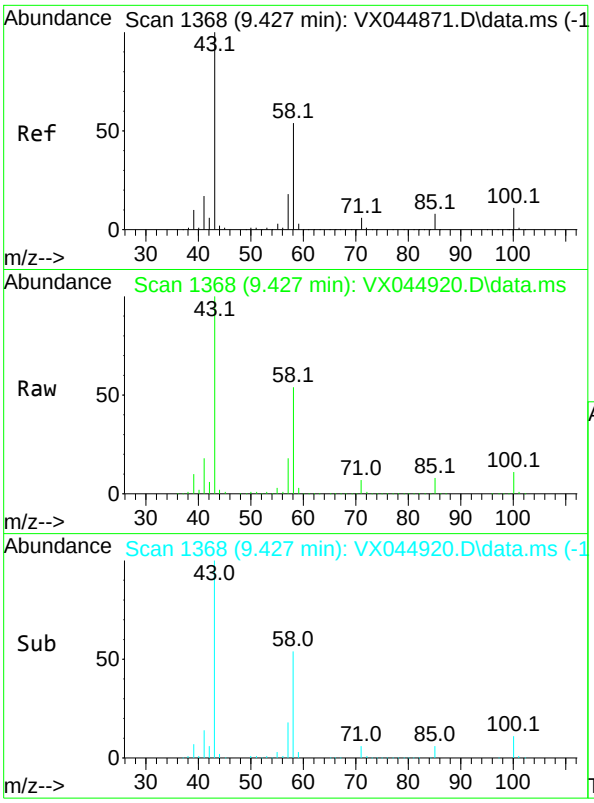


#58
2-Chloroethyl Vinyl ether
Concen: 264.951 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 63 Resp: 298625

Ion	Ratio	Lower	Upper
63	100		
106	25.9	21.3	31.9

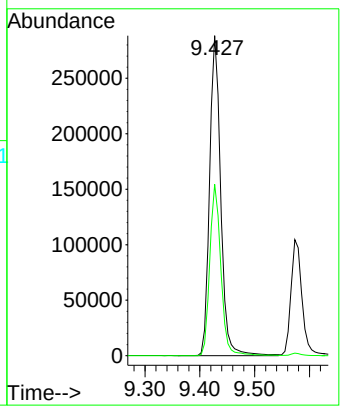




#59
2-Hexanone
Concen: 258.586 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 40447

Ion	Ratio	Lower	Upper
43	100		
58	53.6	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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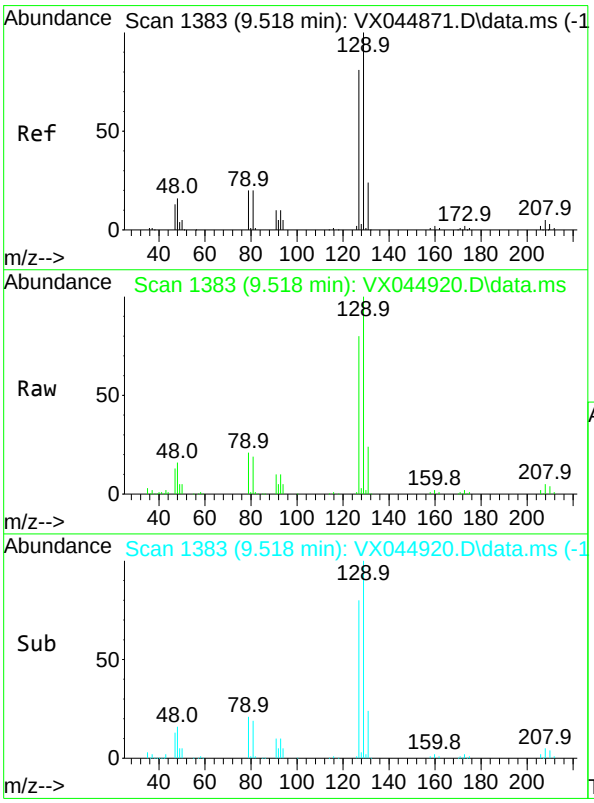
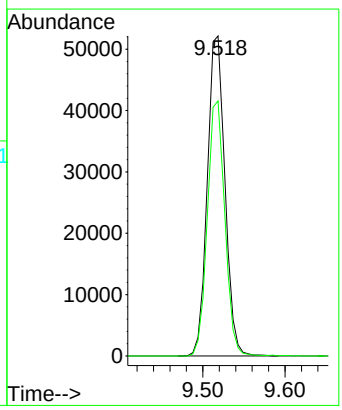
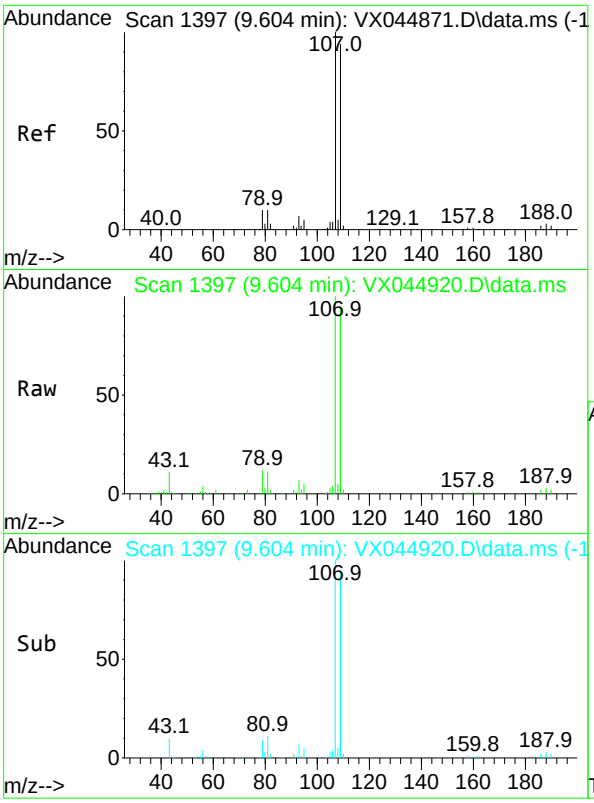


#60
Dibromochloromethane
Concen: 51.129 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:129 Resp: 77715

Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.1	117.3

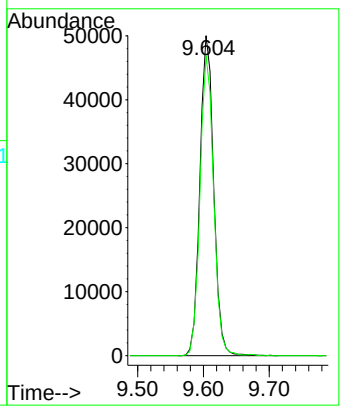




#61
1,2-Dibromoethane
Concen: 50.508 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:107 Resp: 7275

Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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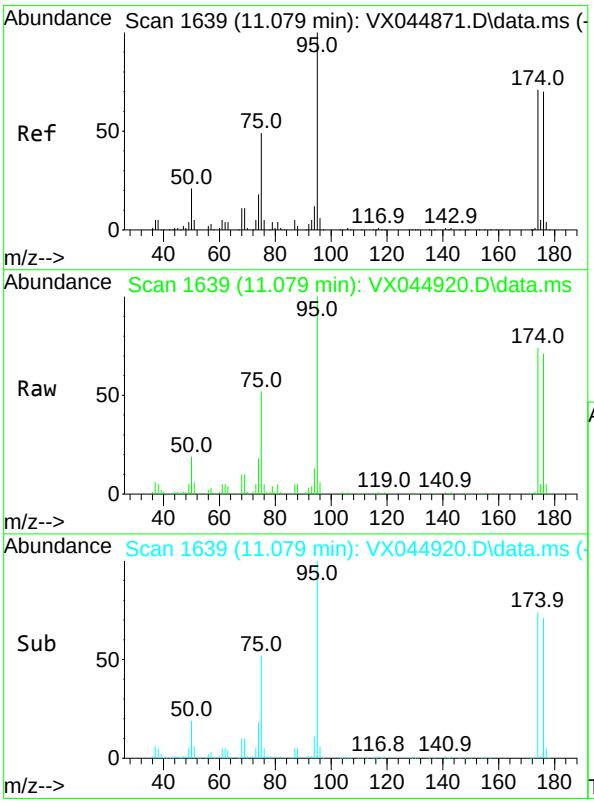
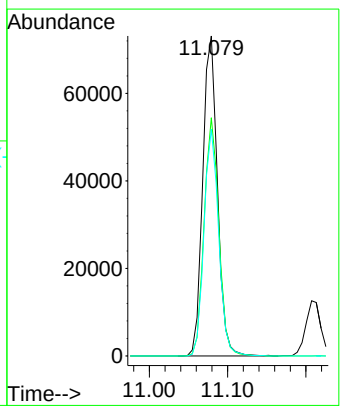
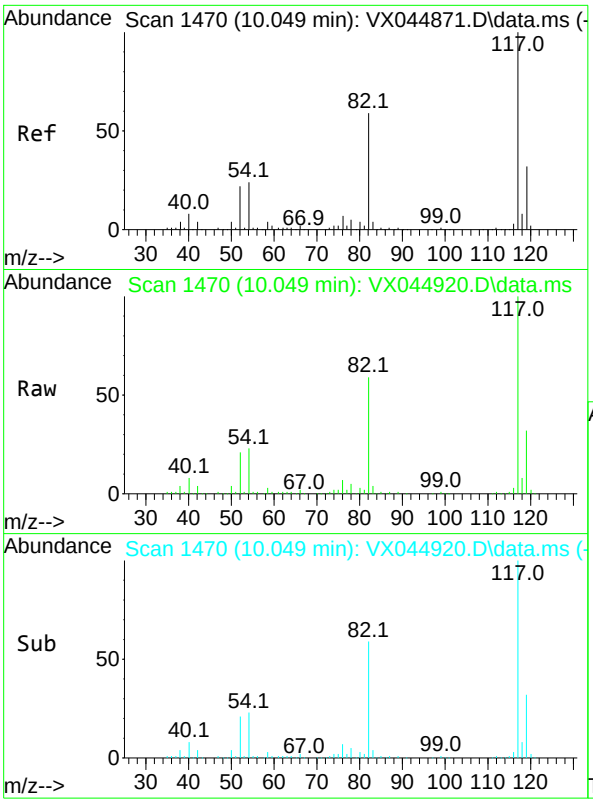


#62
4-Bromofluorobenzene
Concen: 54.089 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 95 Resp: 95016

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	142.6
176	70.7	0.0	141.6

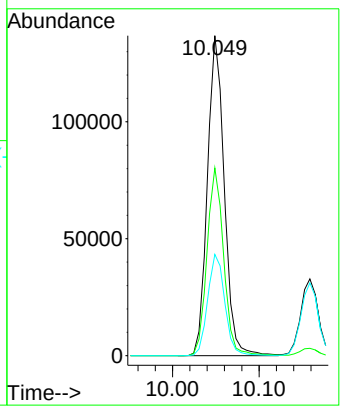




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:117 Resp: 18516

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.5	71.3
119	31.6	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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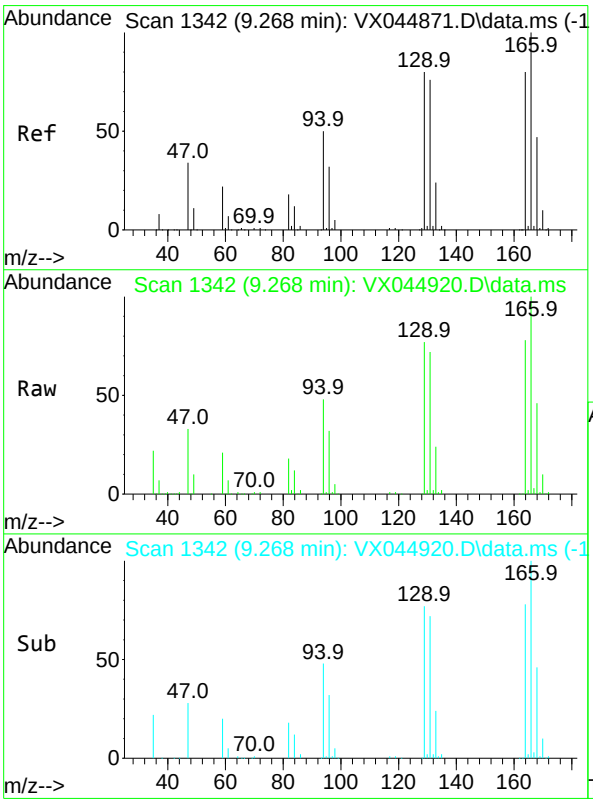
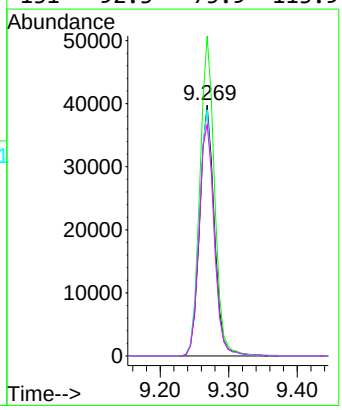
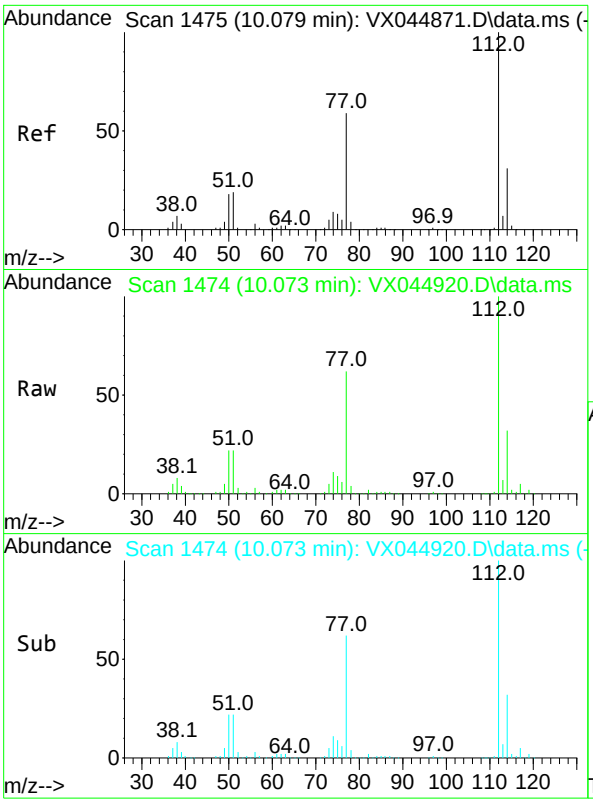


#64
Tetrachloroethene
Concen: 50.651 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:164 Resp: 59146

Ion	Ratio	Lower	Upper
164	100		
166	127.6	100.4	150.6
129	98.2	79.9	119.9
131	92.3	75.9	113.9

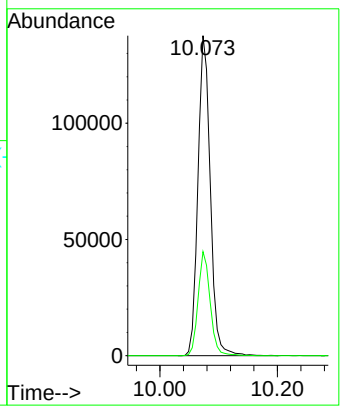




#65
Chlorobenzene
Concen: 50.505 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:112 Resp: 20085

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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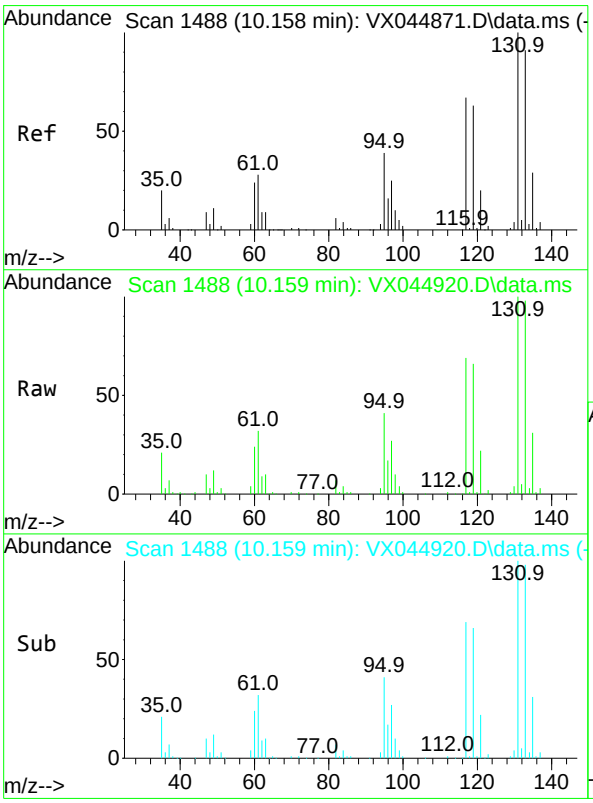
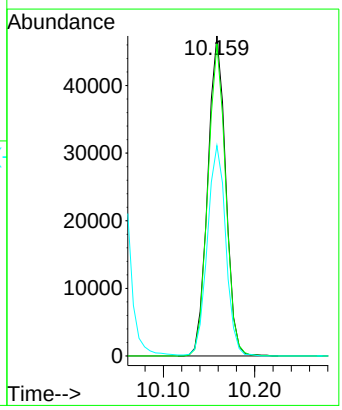
Supervised By :Mahesh Dadoda 02/14/2025

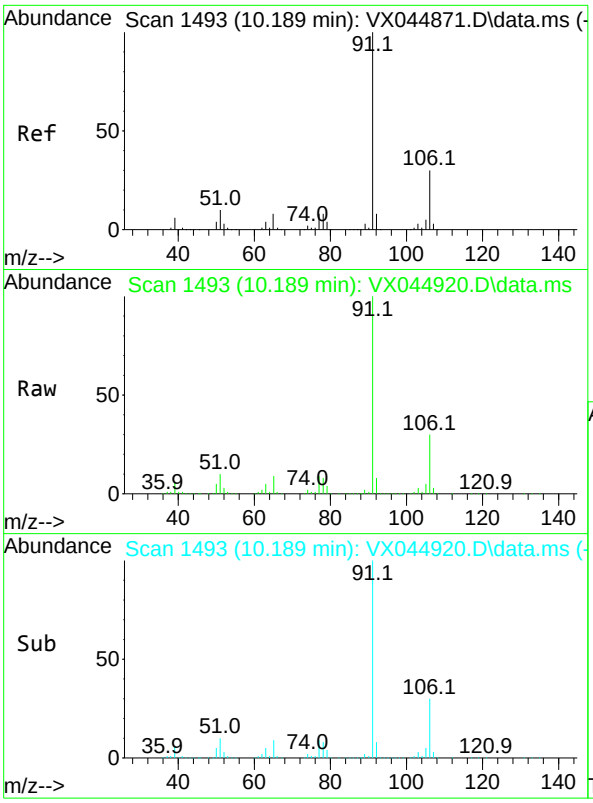


#66
1,1,1,2-Tetrachloroethane
Concen: 50.389 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:131 Resp: 64502

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.1	141.3
119	67.5	33.6	100.6

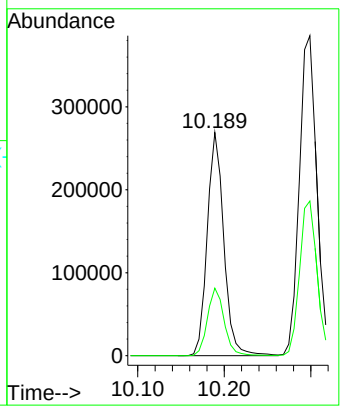




#67
Ethyl Benzene
Concen: 51.021 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 91 Resp: 35807

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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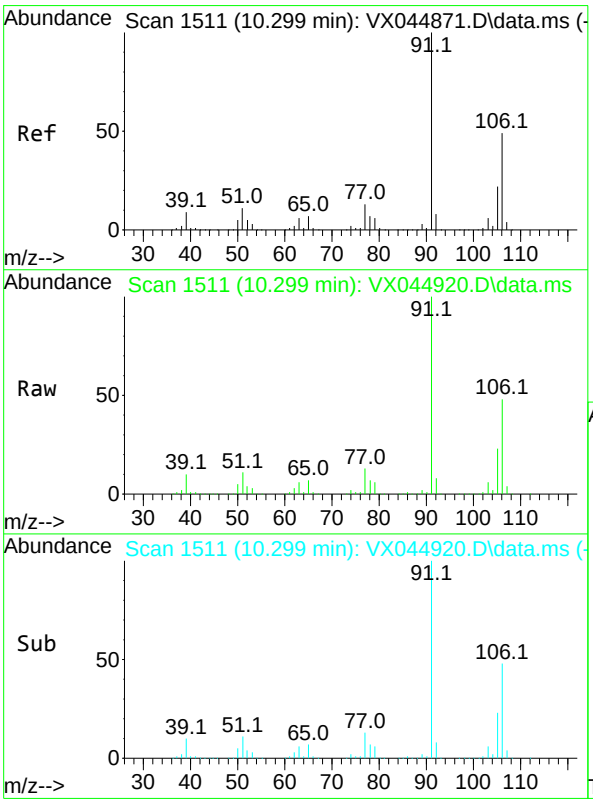
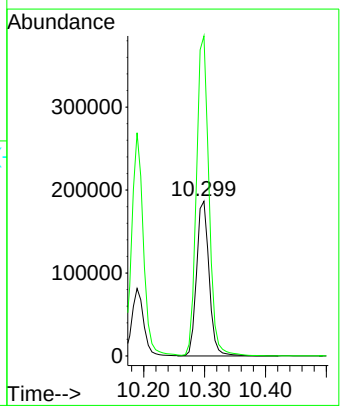
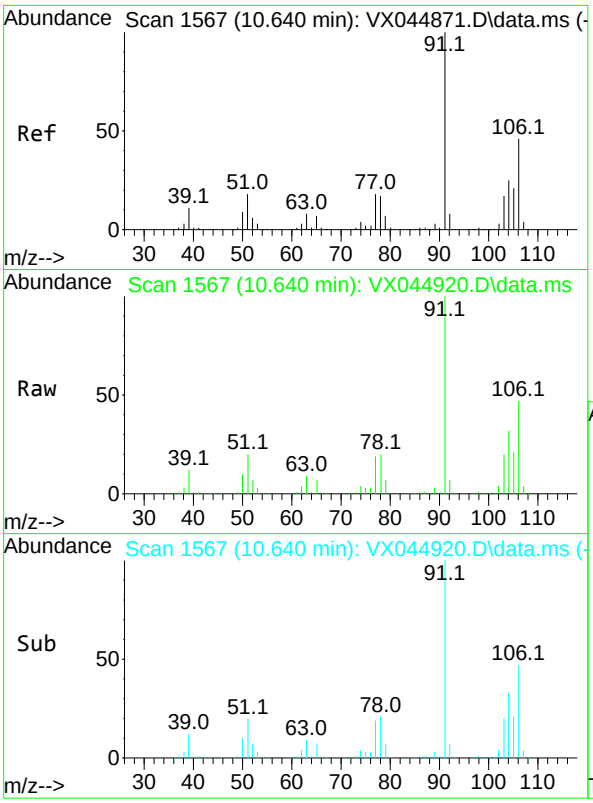


#68
m/p-Xylenes
Concen: 102.304 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:106 Resp: 264855

Ion	Ratio	Lower	Upper
106	100		
91	207.5	164.3	246.5

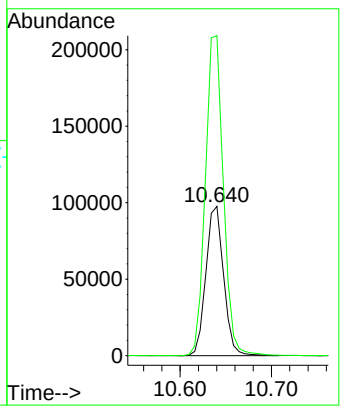




#69
o-Xylene
Concen: 50.681 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:106 Resp: 13165

Ion	Ratio	Lower	Upper
106	100		
91	217.4	108.5	325.5



Instrument :
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ClientSampleId :
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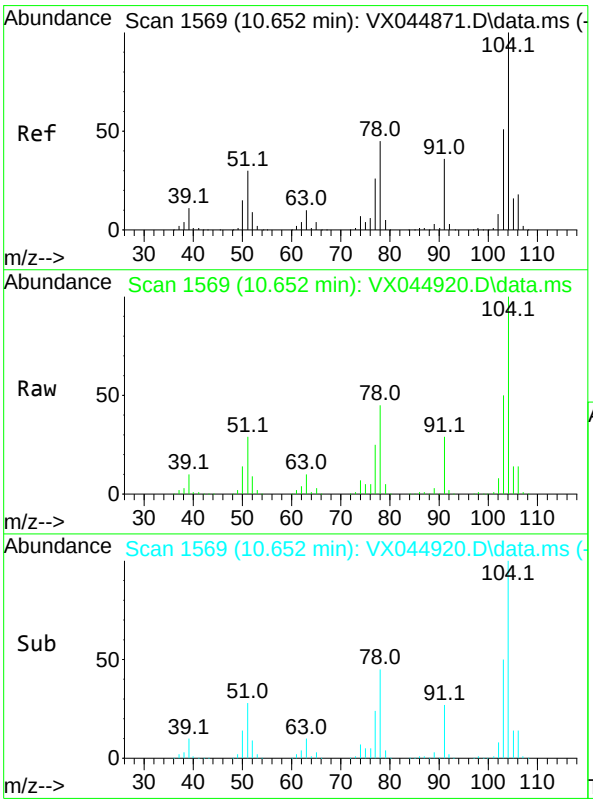
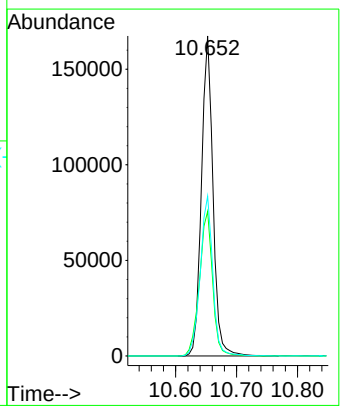
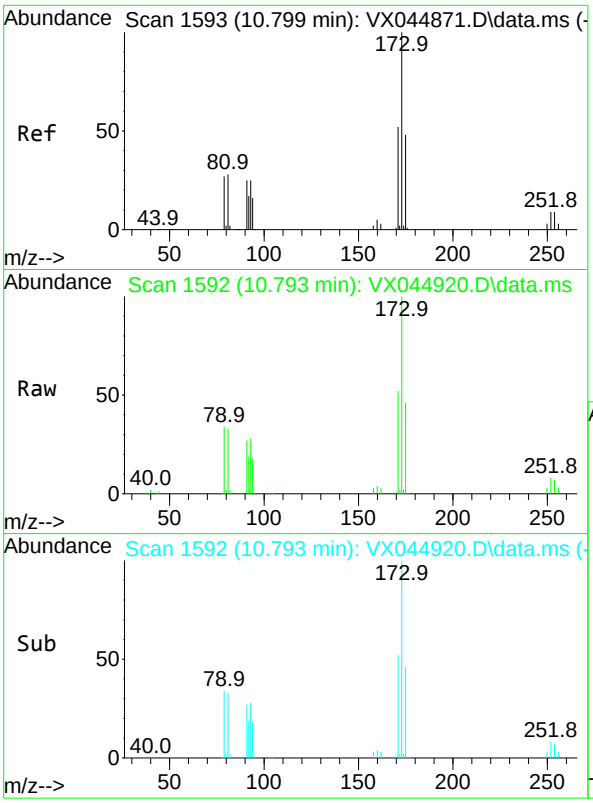


#70
Styrene
Concen: 52.714 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:104 Resp: 220619

Ion	Ratio	Lower	Upper
104	100		
78	51.4	40.5	60.7
103	54.6	43.6	65.4

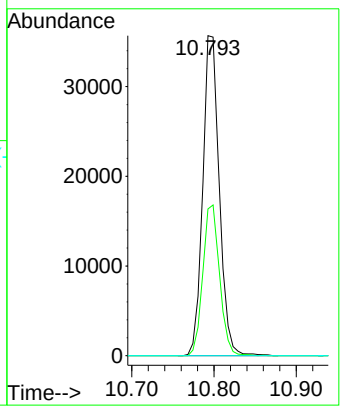




#71
Bromoform
Concen: 52.200 ug/l
RT: 10.793 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:173 Resp: 4986

Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
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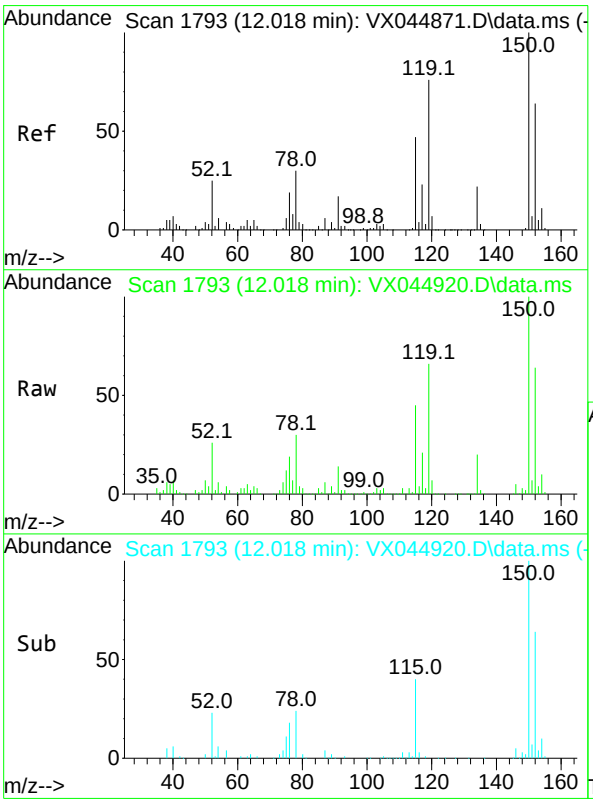
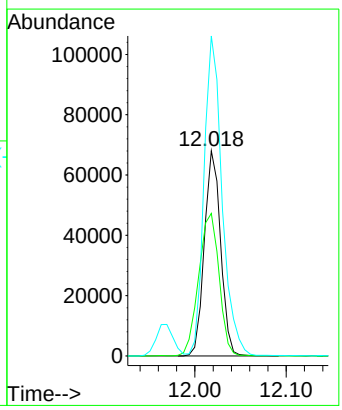
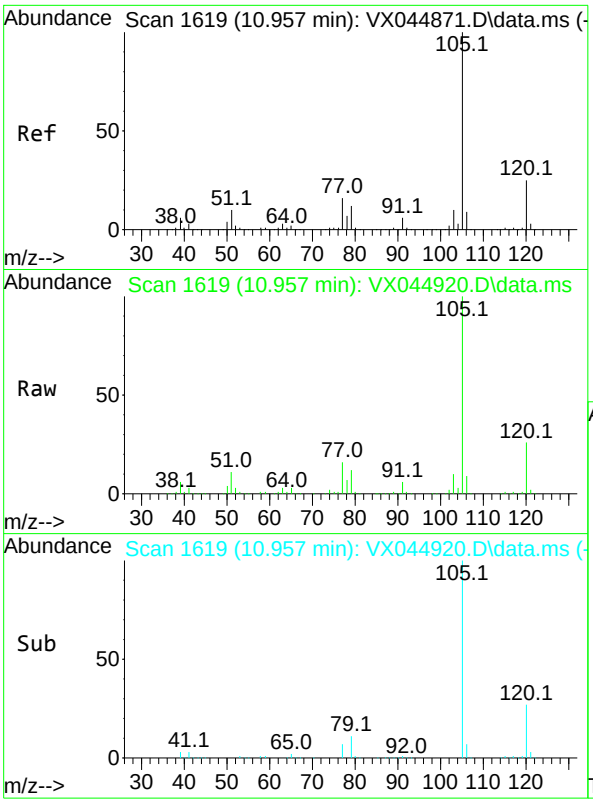


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:152 Resp: 84033

Ion	Ratio	Lower	Upper
152	100		
115	87.6	43.4	130.1
150	173.5	0.0	350.4

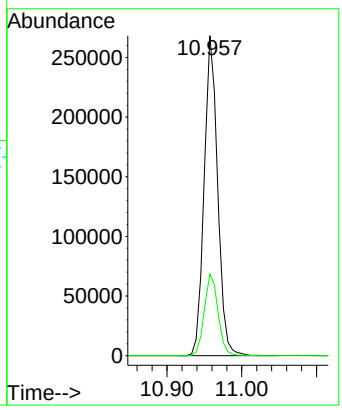




#73
Isopropylbenzene
Concen: 49.681 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:105 Resp: 33615

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
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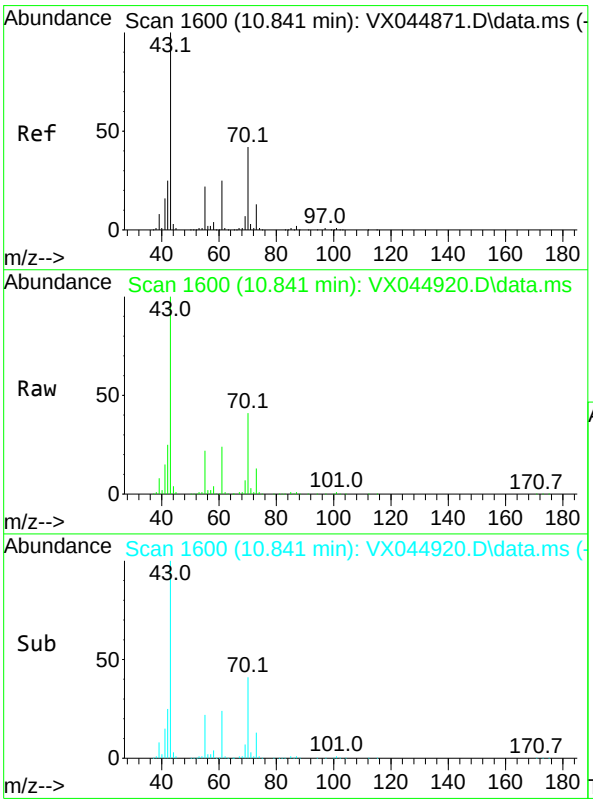
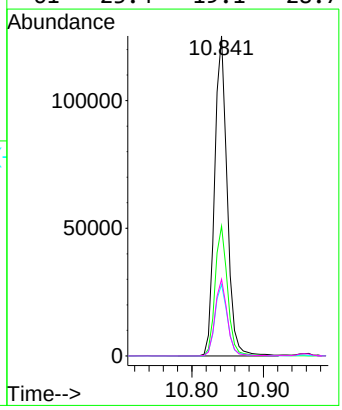
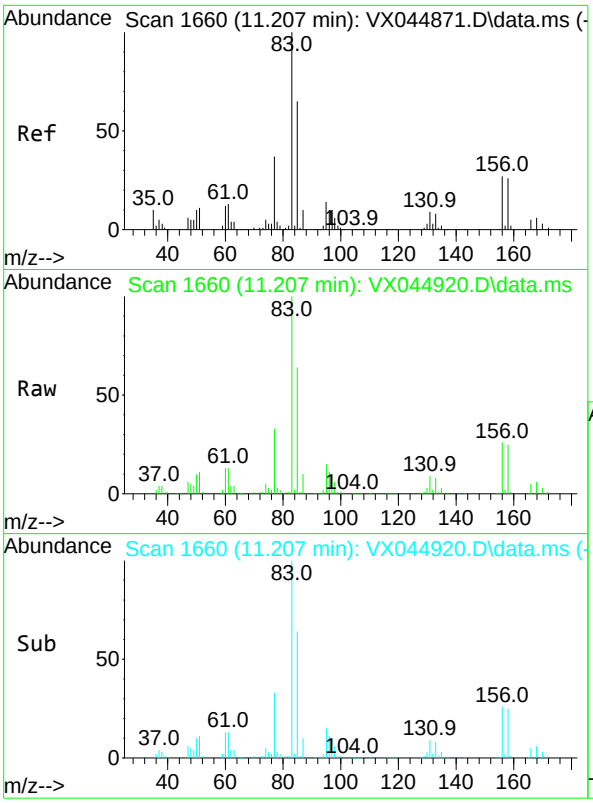


#74
N-amyl acetate
Concen: 49.552 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 151720

Ion	Ratio	Lower	Upper
43	100		
70	40.3	33.7	50.5
55	22.5	18.6	27.8
61	23.4	19.1	28.7

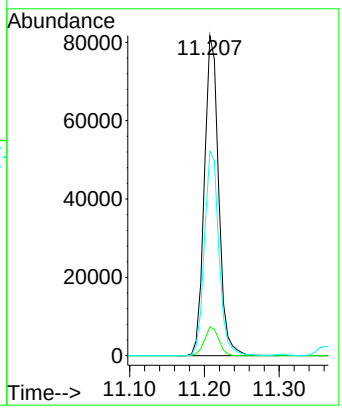




#75
1,1,2,2-Tetrachloroethane
Concen: 46.588 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 83 Resp: 10832

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	65.3	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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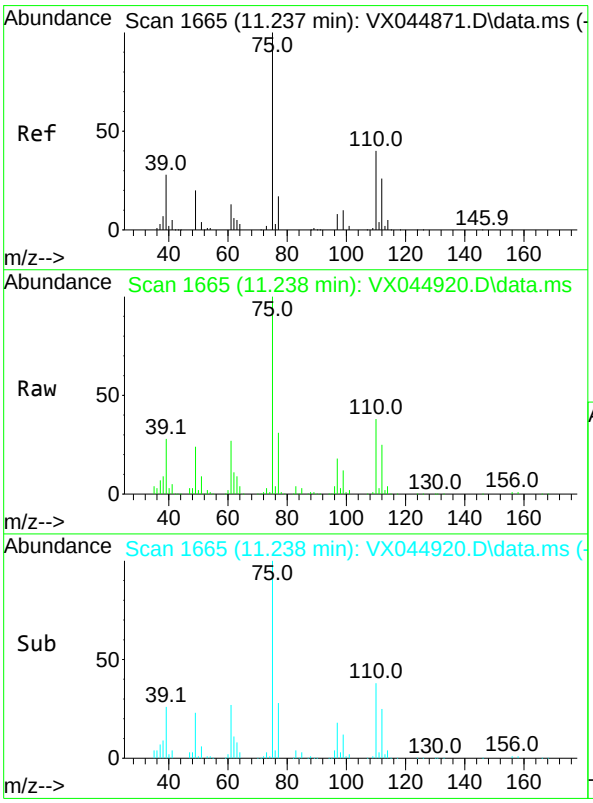
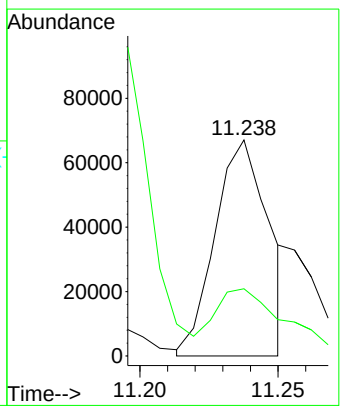
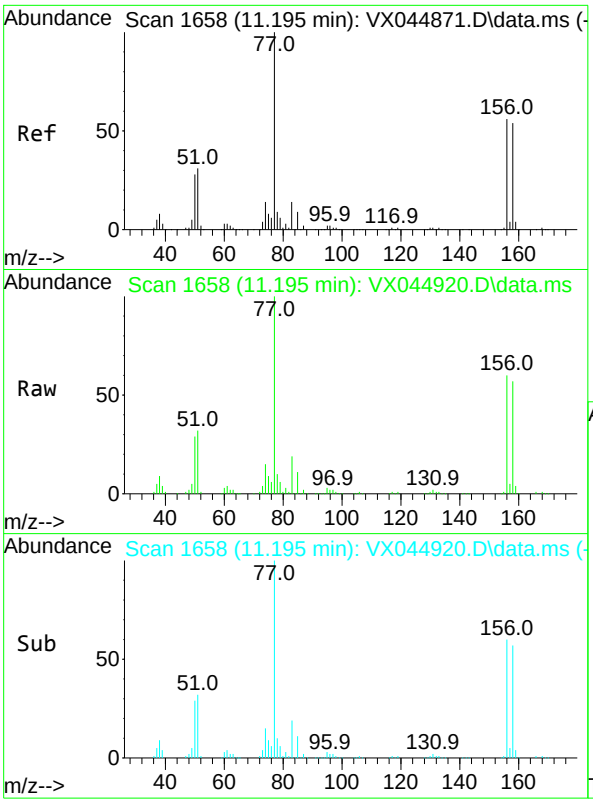


#76
1,2,3-Trichloropropane
Concen: 48.593 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 90536

Ion	Ratio	Lower	Upper
75	100		
77	41.7	21.9	65.7

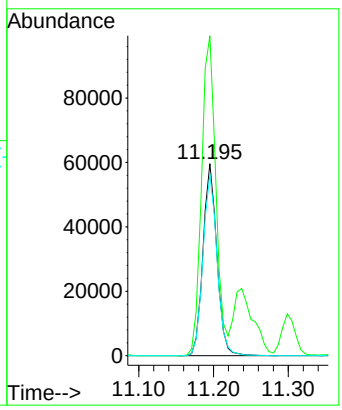




#77
Bromobenzene
Concen: 49.976 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:156 Resp: 7666

Ion	Ratio	Lower	Upper
156	100		
77	172.4	88.4	265.3
158	96.3	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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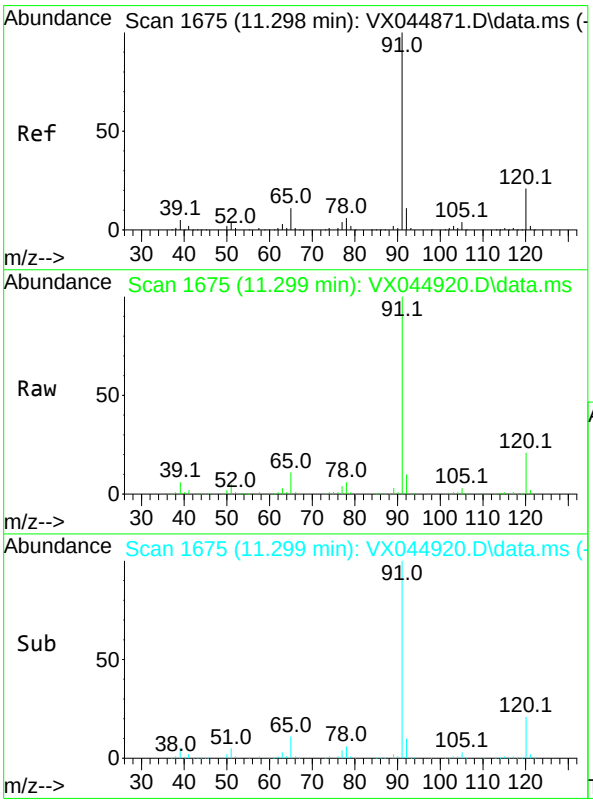
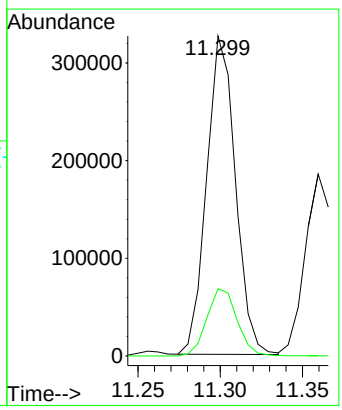
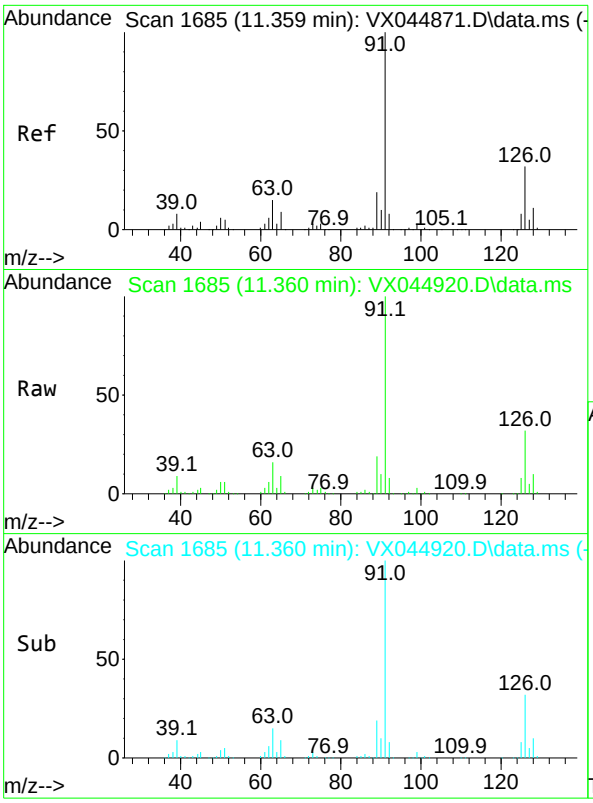


#78
n-propylbenzene
Concen: 50.880 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 91 Resp: 397362

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3

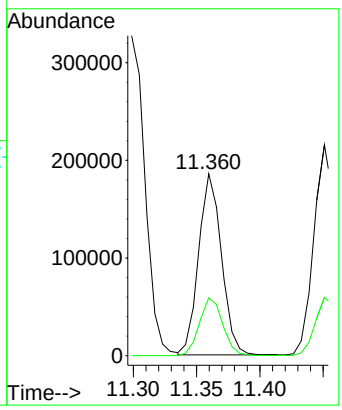




#79
2-Chlorotoluene
Concen: 48.568 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 91 Resp: 23312

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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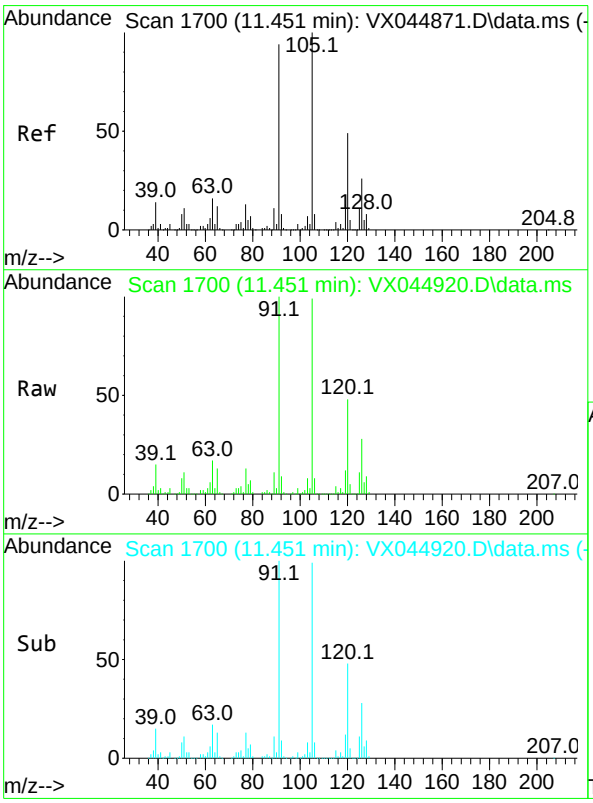
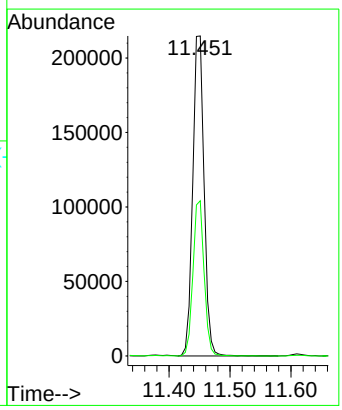
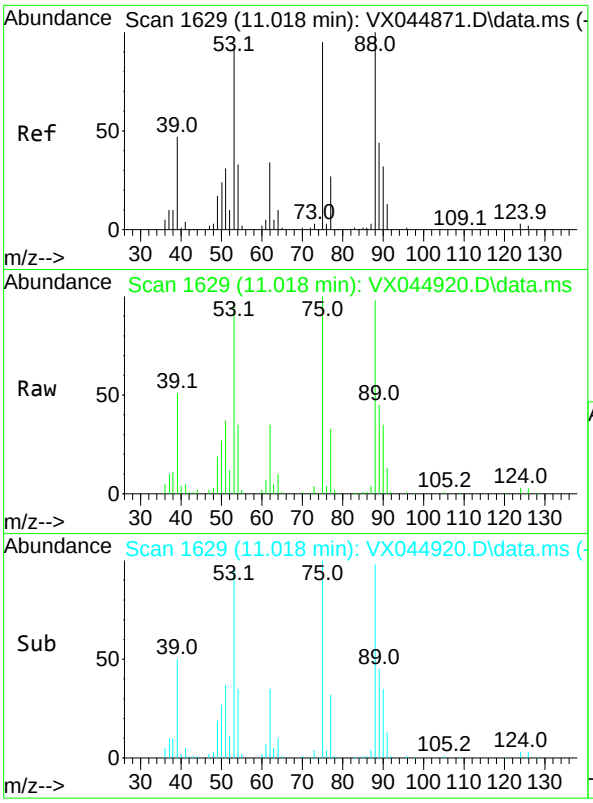


#80
1,3,5-Trimethylbenzene
Concen: 50.419 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:105 Resp: 276841

Ion	Ratio	Lower	Upper
105	100		
120	47.8	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 47.260 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 3423

Ion	Ratio	Lower	Upper
75	100		
53	99.5	78.0	117.0
89	44.8	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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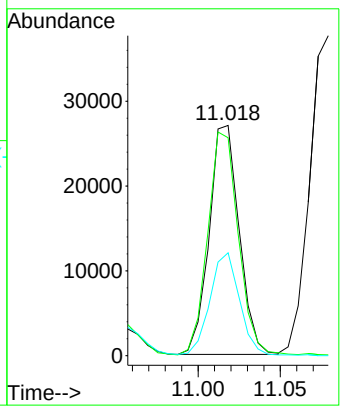
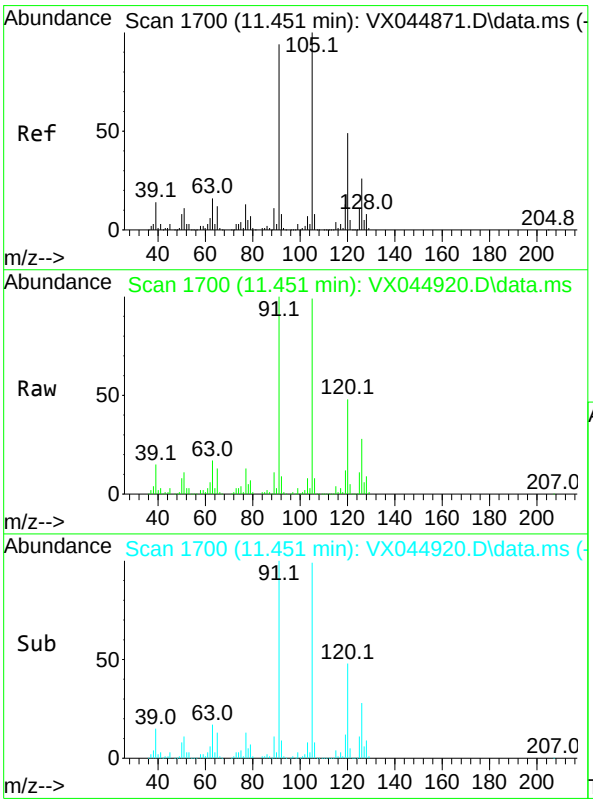
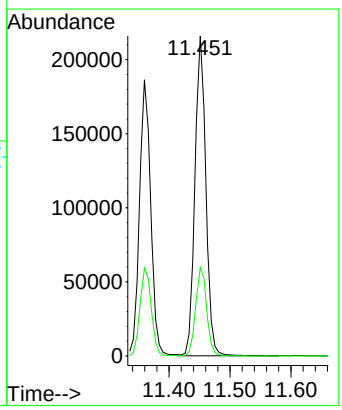


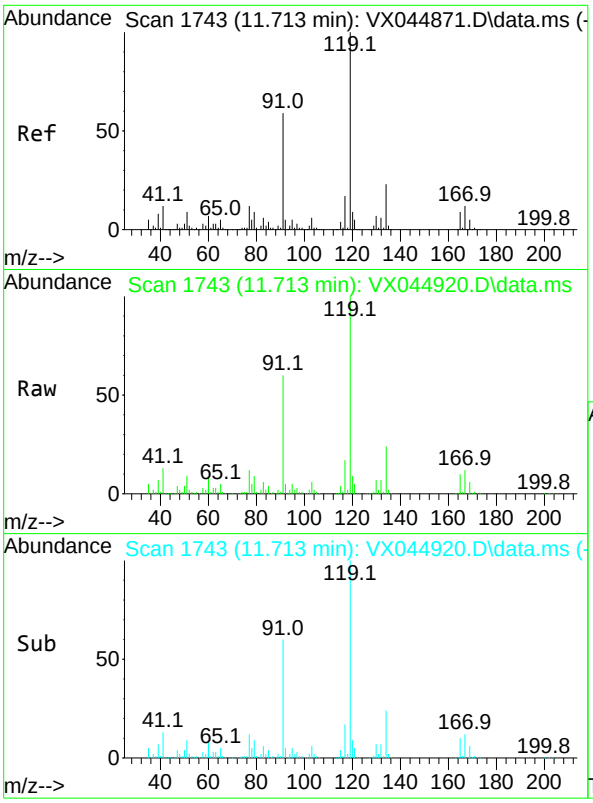


#82
4-Chlorotoluene
Concen: 50.585 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 91 Resp: 268620

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.2	42.6

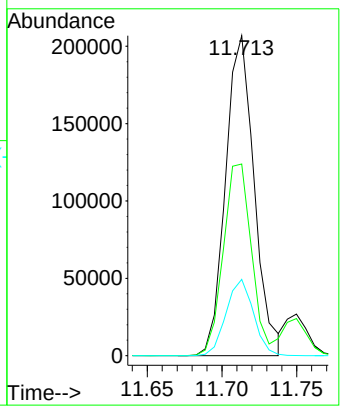




#83
tert-Butylbenzene
Concen: 49.664 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:119 Resp: 27586

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.1	87.4
134	22.8	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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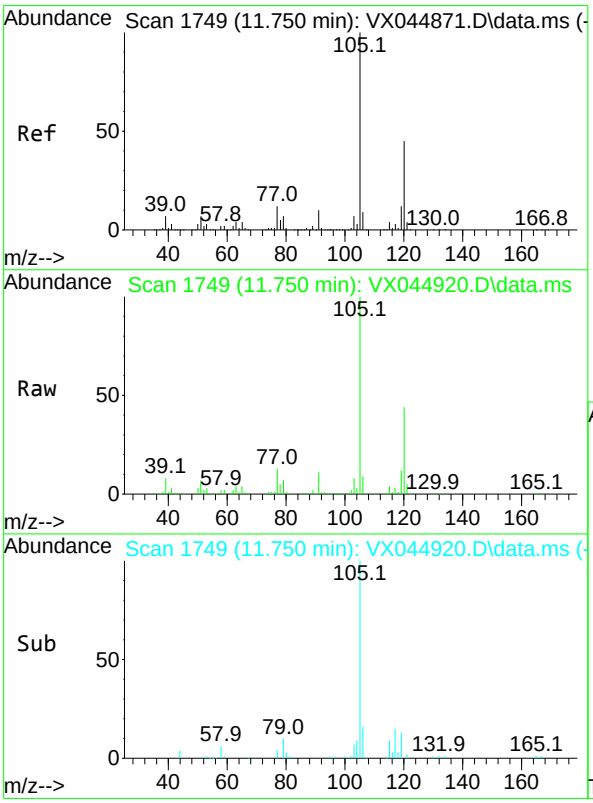
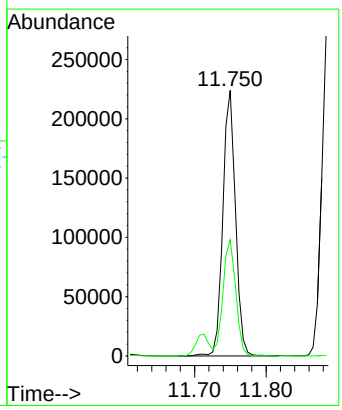
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

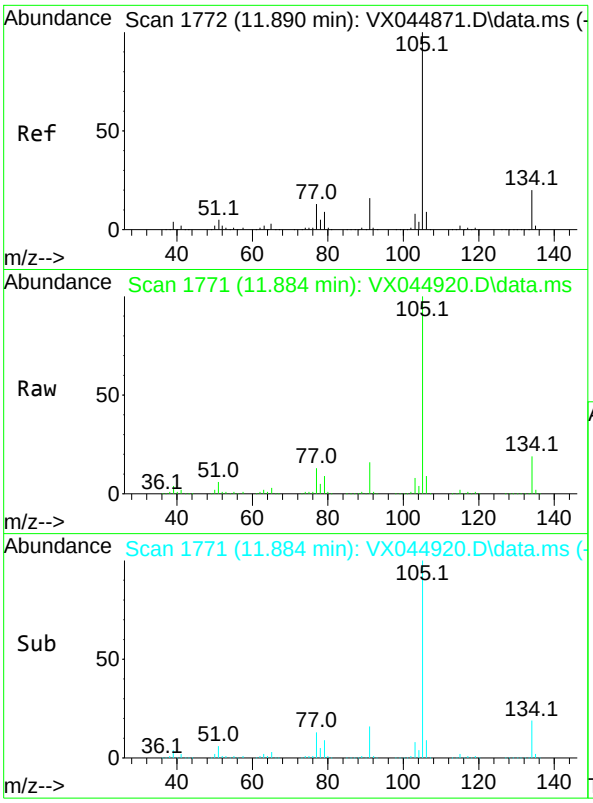


#84
1,2,4-Trimethylbenzene
Concen: 50.841 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:105 Resp: 275526

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.4	67.0

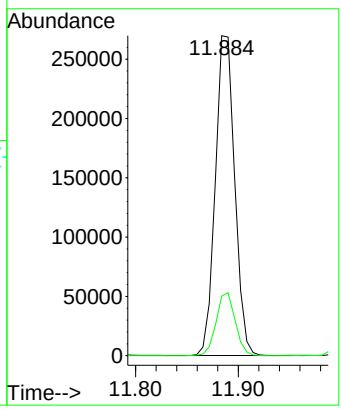




#85
sec-Butylbenzene
Concen: 51.270 ug/l
RT: 11.884 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:105 Resp: 35265

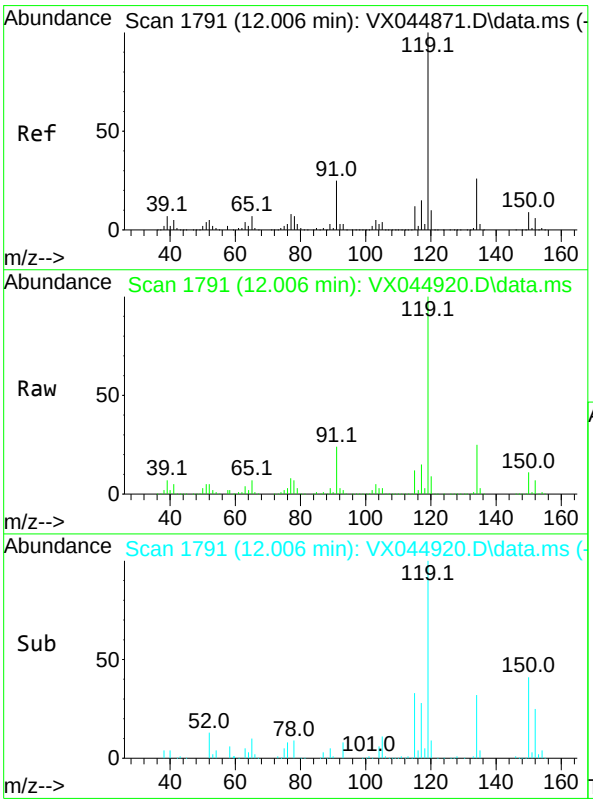
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

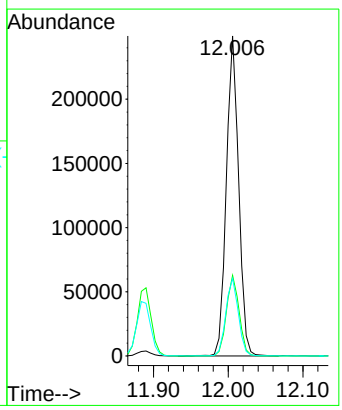
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

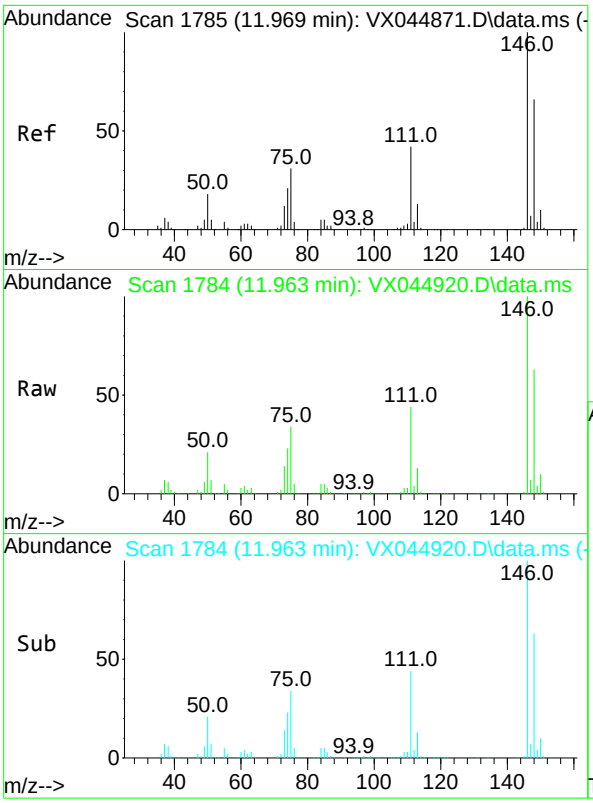


#86
p-Isopropyltoluene
Concen: 51.626 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:119 Resp: 285566

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	24.8	12.1	36.3

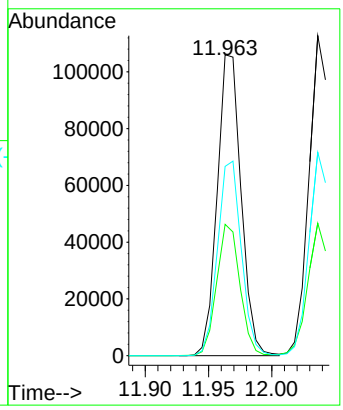




#87
1,3-Dichlorobenzene
Concen: 49.394 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:146 Resp: 13933

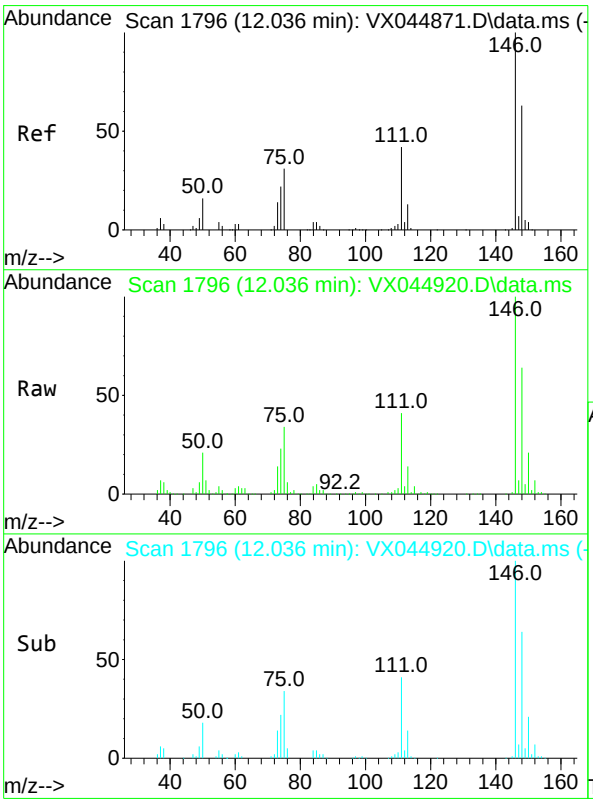
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	64.4	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

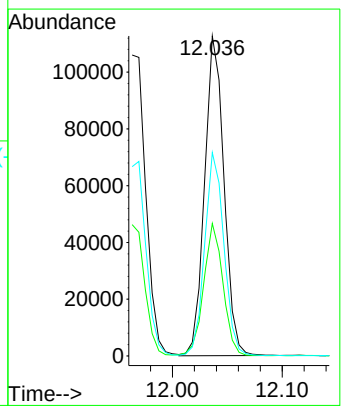
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

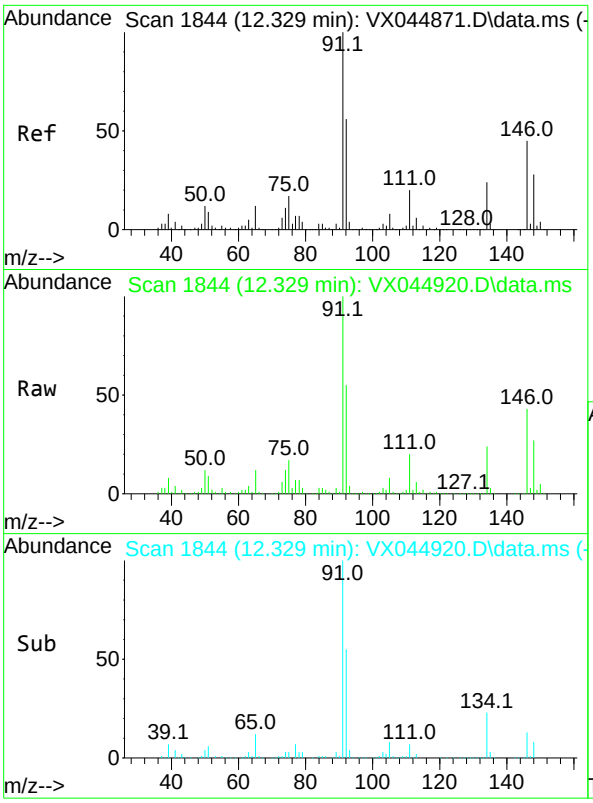


#88
1,4-Dichlorobenzene
Concen: 48.539 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:146 Resp: 138443

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.4	61.3
148	63.3	32.0	96.0





#89
n-Butylbenzene
Concen: 53.945 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

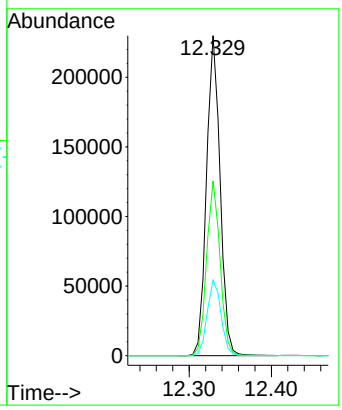
Tgt Ion: 91 Resp: 26398

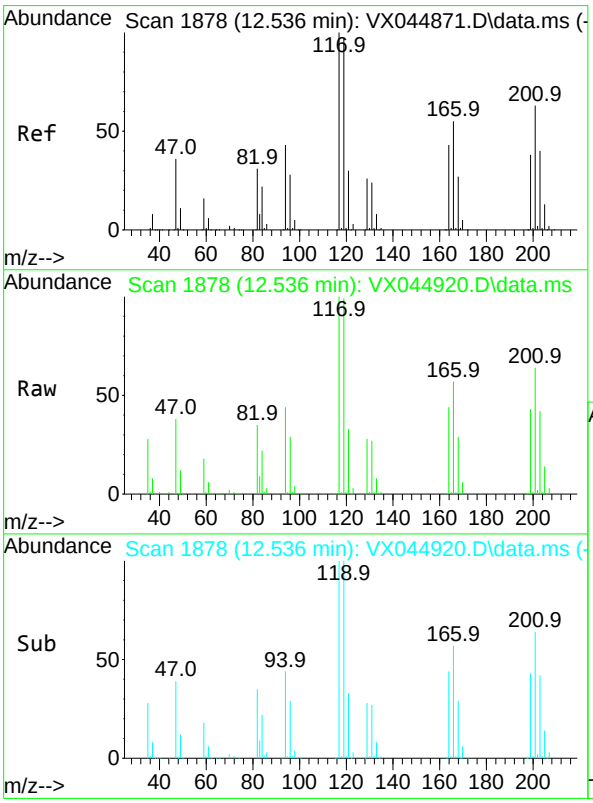
Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.1	12.1	36.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

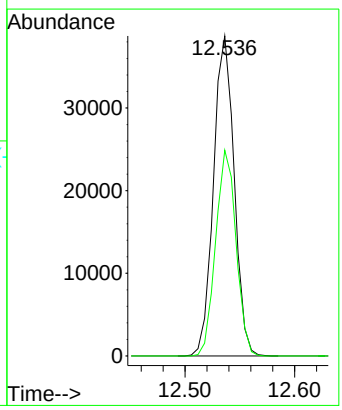


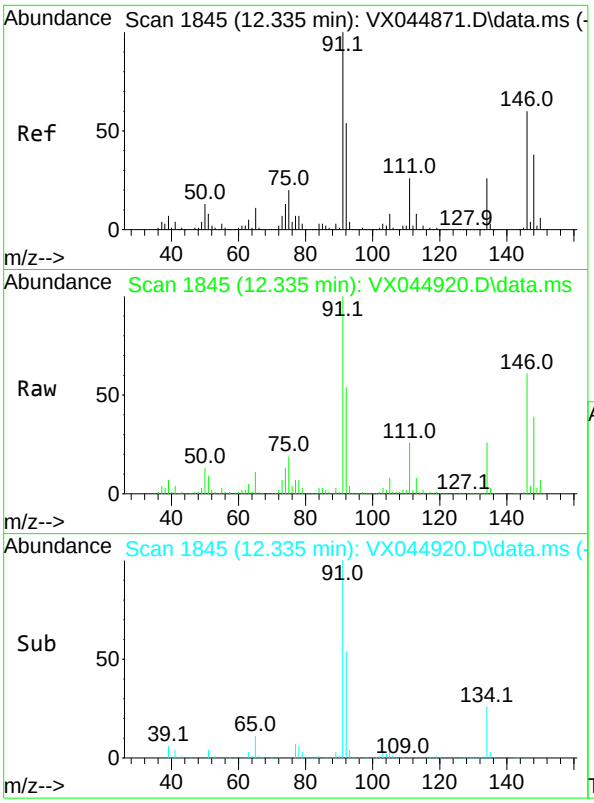


#90
Hexachloroethane
Concen: 49.010 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:117 Resp: 50761

Ion	Ratio	Lower	Upper
117	100		
201	63.5	32.5	97.5

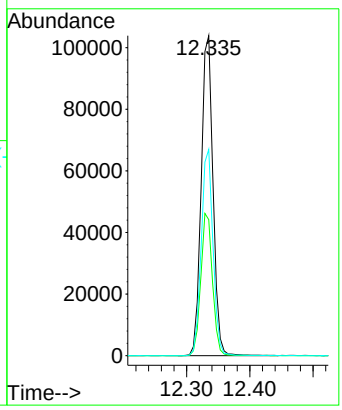




#91
1,2-Dichlorobenzene
Concen: 48.817 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:146 Resp: 13534

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.8	65.4
148	64.0	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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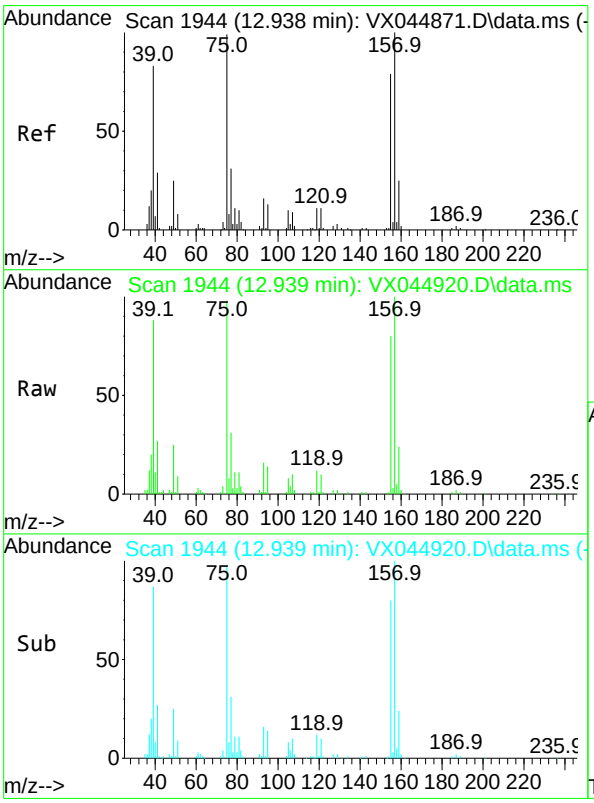
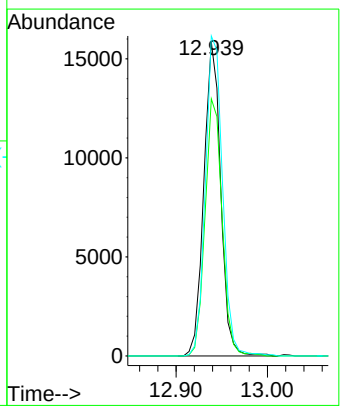
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

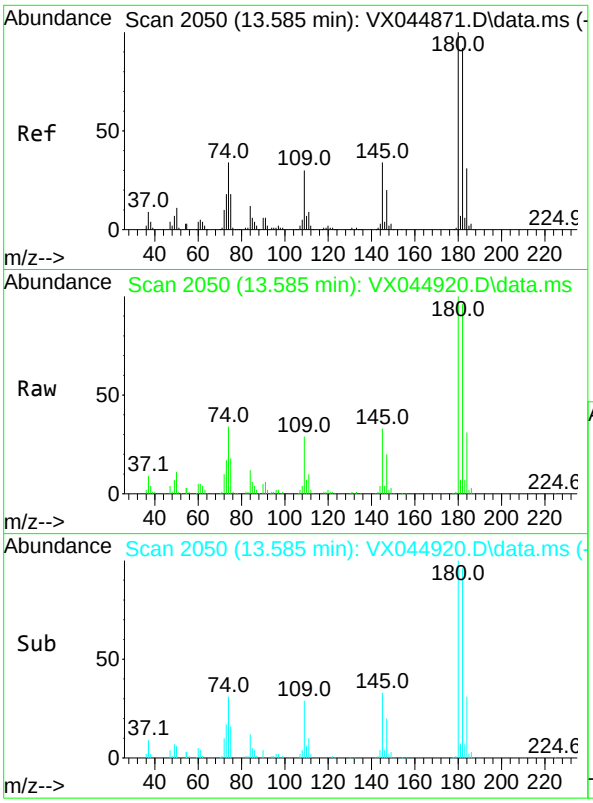


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.833 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 20298

Ion	Ratio	Lower	Upper
75	100		
155	82.9	40.5	121.4
157	103.9	51.4	154.3

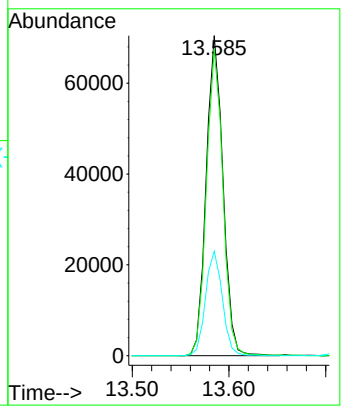




#93
1,2,4-Trichlorobenzene
Concen: 50.856 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:180 Resp: 8531

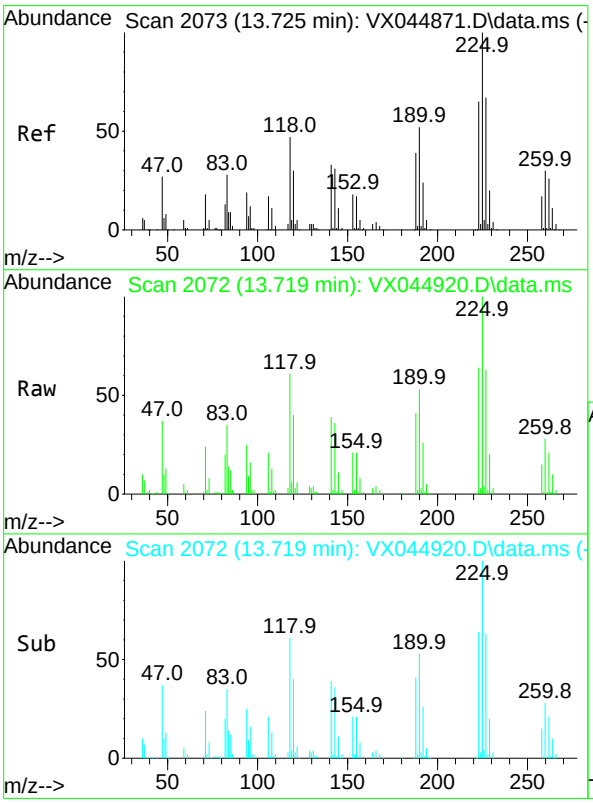
Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.6	142.8
145	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

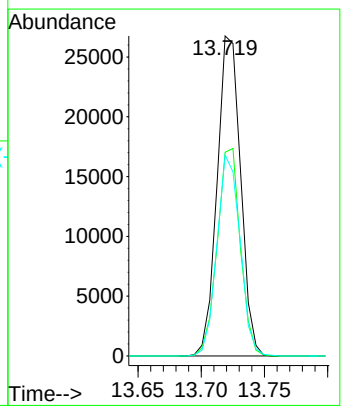
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

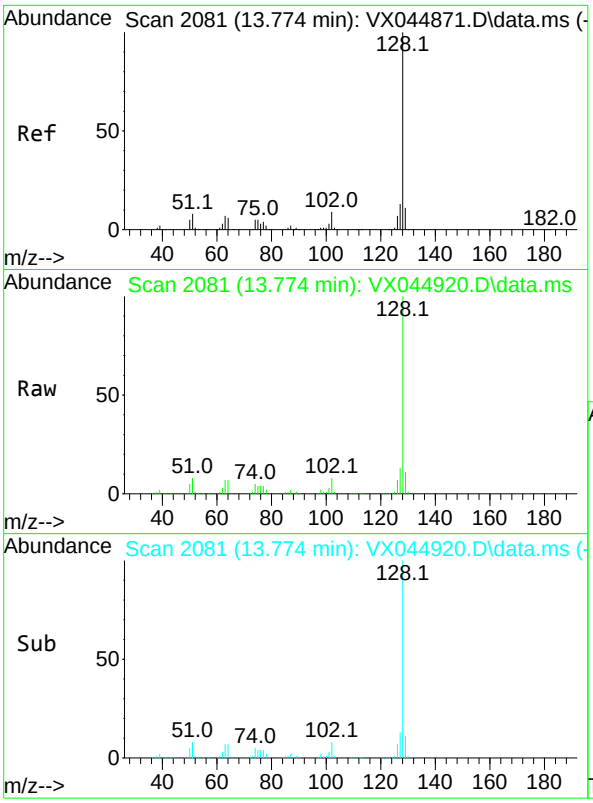


#94
Hexachlorobutadiene
Concen: 51.753 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:225 Resp: 34467

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.4	94.2
227	61.9	32.3	96.8

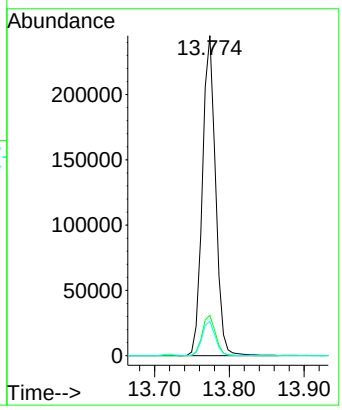




#95
Naphthalene
Concen: 49.423 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:128 Resp: 29972

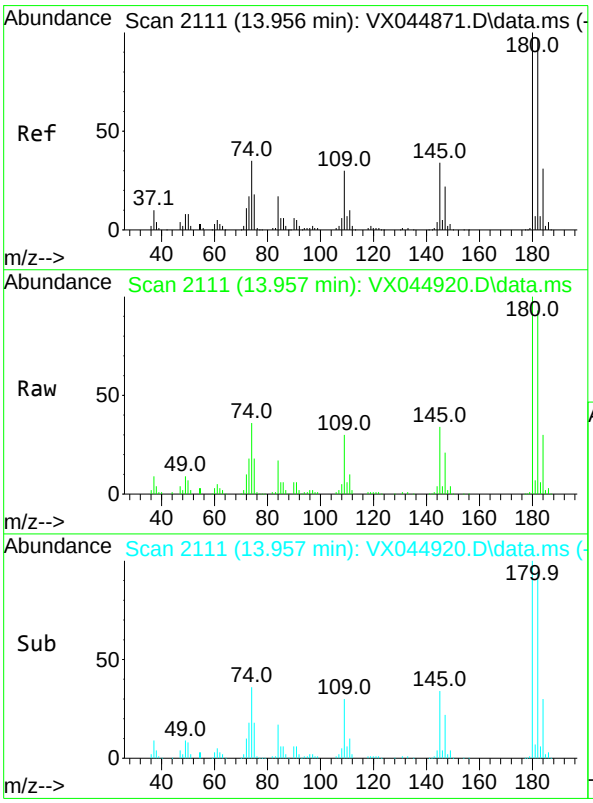
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.8	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

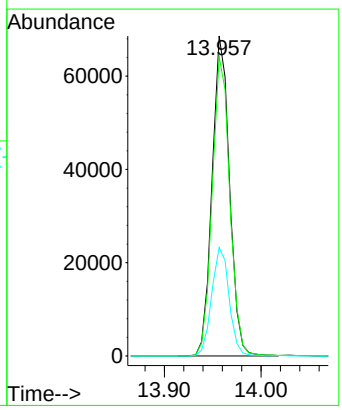
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.809 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:180 Resp: 85892

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.9	143.6
145	33.9	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	94	0.00
2	T	Dichlorodifluoromethane	0.701	0.718	-2.4	96	0.00
3	P	Chloromethane	0.854	0.820	4.0	91	0.00
4	C	Vinyl Chloride	0.827	0.797	3.6#	93	0.00
5	T	Bromomethane	0.247	0.256	-3.6	97	0.00
6	T	Chloroethane	0.307	0.389	-26.7#	107	0.00
7	T	Trichlorofluoromethane	1.046	1.056	-1.0	96	0.00
8	T	Diethyl Ether	0.379	0.377	0.5	94	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.642	-1.6	96	0.00
10	T	Methyl Iodide	0.819	0.837	-2.2	93	0.00
11	T	Tert butyl alcohol	0.136	0.120	11.8	82	0.00
12	CM	1,1-Dichloroethene	0.644	0.613	4.8#	91	0.00
13	T	Acrolein	0.140	0.137	2.1	91	0.00
14	T	Allyl chloride	1.165	1.120	3.9	91	0.00
15	T	Acrylonitrile	0.363	0.356	1.9	88	0.00
16	T	Acetone	0.294	0.293	0.3	94	0.00
17	T	Carbon Disulfide	1.767	1.633	7.6	87	0.00
18	T	Methyl Acetate	0.928	0.895	3.6	89	0.00
19	T	Methyl tert-butyl Ether	2.050	1.992	2.8	91	0.00
20	T	Methylene Chloride	0.721	0.687	4.7	92	0.00
21	T	trans-1,2-Dichloroethene	0.634	0.601	5.2	88	0.00
22	T	Diisopropyl ether	2.203	2.180	1.0	91	0.00
23	T	Vinyl Acetate	1.796	1.785	0.6	90	0.00
24	P	1,1-Dichloroethane	1.233	1.202	2.5	92	0.00
25	T	2-Butanone	0.478	0.466	2.5	87	0.00
26	T	2,2-Dichloropropane	0.978	0.948	3.1	93	0.00
27	T	cis-1,2-Dichloroethene	0.762	0.733	3.8	91	0.00
28	T	Bromochloromethane	0.593	0.601	-1.3	97	0.00
29	T	Tetrahydrofuran	0.317	0.305	3.8	87	0.00
30	C	Chloroform	1.196	1.159	3.1#	93	0.00
31	T	Cyclohexane	1.137	1.079	5.1	90	0.00
32	T	1,1,1-Trichloroethane	1.014	0.988	2.6	92	0.00
33	S	1,2-Dichloroethane-d4	0.732	0.766	-4.6	99	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
35	S	Dibromofluoromethane	0.325	0.353	-8.6	100	0.00
36	T	1,1-Dichloropropene	0.469	0.466	0.6	91	0.00
37	T	Ethyl Acetate	0.522	0.503	3.6	86	0.00
38	T	Carbon Tetrachloride	0.460	0.463	-0.7	93	0.00
39	T	Methylcyclohexane	0.606	0.636	-5.0	93	0.00
40	TM	Benzene	1.465	1.458	0.5	90	0.00
41	T	Methacrylonitrile	0.279	0.294	-5.4	88	0.00
42	TM	1,2-Dichloroethane	0.467	0.483	-3.4	93	0.00
43	T	Isopropyl Acetate	0.842	0.855	-1.5	89	0.00
44	TM	Trichloroethene	0.335	0.330	1.5	89	0.00
45	C	1,2-Dichloropropane	0.364	0.366	-0.5#	90	0.00
46	T	Dibromomethane	0.253	0.253	0.0	90	0.00
47	T	Bromodichloromethane	0.489	0.505	-3.3	92	0.00
48	T	Methyl methacrylate	0.397	0.407	-2.5	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	84	0.00
50	S	Toluene-d8	1.229	1.313	-6.8	96	0.00
51	T	4-Methyl-2-Pentanone	0.512	0.531	-3.7	87	0.00
52	CM	Toluene	0.872	0.887	-1.7#	90	0.00
53	T	t-1,3-Dichloropropene	0.495	0.514	-3.8	91	0.00
54	T	cis-1,3-Dichloropropene	0.552	0.566	-2.5	89	0.00
55	T	1,1,2-Trichloroethane	0.335	0.334	0.3	89	0.00
56	T	Ethyl methacrylate	0.542	0.555	-2.4	87	0.00
57	T	1,3-Dichloropropane	0.587	0.593	-1.0	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.266	0.282	-6.0	89	0.00
59	T	2-Hexanone	0.369	0.382	-3.5	86	0.00
60	T	Dibromochloromethane	0.359	0.367	-2.2	89	0.00
61	T	1,2-Dibromoethane	0.340	0.343	-0.9	89	0.00
62	S	4-Bromofluorobenzene	0.414	0.448	-8.2	94	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
64	T	Tetrachloroethene	0.315	0.319	-1.3	93	0.00
65	PM	Chlorobenzene	1.074	1.085	-1.0	90	0.00
66	T	1,1,1,2-Tetrachloroethane	0.346	0.348	-0.6	89	0.00
67	C	Ethyl Benzene	1.895	1.934	-2.1#	90	0.00
68	T	m/p-Xylenes	0.699	0.715	-2.3	89	0.00
69	T	o-Xylene	0.701	0.711	-1.4	91	0.00
70	T	Styrene	1.130	1.191	-5.4	90	0.00
71	P	Bromoform	0.258	0.269	-4.3	87	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73	T	Isopropylbenzene	4.026	4.000	0.6	90	0.00
74	T	N-amyl acetate	1.822	1.805	0.9	86	0.00
75	P	1,1,2,2-Tetrachloroethane	1.383	1.289	6.8	86	0.00
76	T	1,2,3-Trichloropropane	1.109	1.077	2.9	88	0.00
77	T	Bromobenzene	0.913	0.912	0.1	91	0.00
78	T	n-propylbenzene	4.647	4.729	-1.8	91	0.00
79	T	2-Chlorotoluene	2.856	2.774	2.9	89	0.00
80	T	1,3,5-Trimethylbenzene	3.267	3.294	-0.8	90	0.00
81	T	trans-1,4-Dichloro-2-butene	0.431	0.407	5.6	85	0.00
82	T	4-Chlorotoluene	3.160	3.197	-1.2	91	0.00
83	T	tert-Butylbenzene	3.305	3.283	0.7	90	0.00
84	T	1,2,4-Trimethylbenzene	3.225	3.279	-1.7	89	0.00
85	T	sec-Butylbenzene	4.093	4.197	-2.5	92	0.00
86	T	p-Isopropyltoluene	3.291	3.398	-3.3	91	0.00
87	T	1,3-Dichlorobenzene	1.678	1.658	1.2	90	0.00
88	T	1,4-Dichlorobenzene	1.697	1.647	2.9	89	0.00
89	T	n-Butylbenzene	2.912	3.141	-7.9	92	0.00
90	T	Hexachloroethane	0.616	0.604	1.9	89	0.00
91	T	1,2-Dichlorobenzene	1.650	1.611	2.4	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.252	0.242	4.0	85	0.00
93	T	1,2,4-Trichlorobenzene	0.998	1.015	-1.7	91	0.00
94	T	Hexachlorobutadiene	0.396	0.410	-3.5	97	0.00
95	T	Naphthalene	3.608	3.567	1.1	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.006	1.022	-1.6	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	94	0.00
2	T	Dichlorodifluoromethane	50.000	51.201	-2.4	96	0.00
3	P	Chloromethane	50.000	48.058	3.9	91	0.00
4	C	Vinyl Chloride	50.000	48.212	3.6#	93	0.00
5	T	Bromomethane	50.000	51.816	-3.6	97	0.00
6	T	Chloroethane	50.000	64.424	-28.8#	107	0.00
7	T	Trichlorofluoromethane	50.000	50.511	-1.0	96	0.00
8	T	Diethyl Ether	50.000	49.748	0.5	94	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.809	-1.6	96	0.00
10	T	Methyl Iodide	50.000	51.121	-2.2	93	0.00
11	T	Tert butyl alcohol	250.000	220.523	11.8	82	0.00
12	CM	1,1-Dichloroethene	50.000	47.582	4.8#	91	0.00
13	T	Acrolein	250.000	243.819	2.5	91	0.00
14	T	Allyl chloride	50.000	48.073	3.9	91	0.00
15	T	Acrylonitrile	250.000	245.512	1.8	88	0.00
16	T	Acetone	250.000	248.546	0.6	94	0.00
17	T	Carbon Disulfide	50.000	46.213	7.6	87	0.00
18	T	Methyl Acetate	50.000	48.211	3.6	89	0.00
19	T	Methyl tert-butyl Ether	50.000	48.574	2.9	91	0.00
20	T	Methylene Chloride	50.000	47.678	4.6	92	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.344	5.3	88	0.00
22	T	Diisopropyl ether	50.000	49.465	1.1	91	0.00
23	T	Vinyl Acetate	250.000	248.365	0.7	90	0.00
24	P	1,1-Dichloroethane	50.000	48.732	2.5	92	0.00
25	T	2-Butanone	250.000	243.912	2.4	87	0.00
26	T	2,2-Dichloropropane	50.000	48.481	3.0	93	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.076	3.8	91	0.00
28	T	Bromochloromethane	50.000	50.687	-1.4	97	0.00
29	T	Tetrahydrofuran	250.000	240.180	3.9	87	0.00
30	C	Chloroform	50.000	48.459	3.1#	93	0.00
31	T	Cyclohexane	50.000	47.478	5.0	90	0.00
32	T	1,1,1-Trichloroethane	50.000	48.724	2.6	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.302	-4.6	99	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	91	0.00
35	S	Dibromofluoromethane	50.000	54.340	-8.7	100	0.00
36	T	1,1-Dichloropropene	50.000	49.631	0.7	91	0.00
37	T	Ethyl Acetate	50.000	48.172	3.7	86	0.00
38	T	Carbon Tetrachloride	50.000	50.355	-0.7	93	0.00
39	T	Methylcyclohexane	50.000	52.425	-4.8	93	0.00
40	TM	Benzene	50.000	49.781	0.4	90	0.00
41	T	Methacrylonitrile	50.000	52.708	-5.4	88	0.00
42	TM	1,2-Dichloroethane	50.000	51.758	-3.5	93	0.00
43	T	Isopropyl Acetate	50.000	50.744	-1.5	89	0.00
44	TM	Trichloroethene	50.000	49.313	1.4	89	0.00
45	C	1,2-Dichloropropane	50.000	50.178	-0.4#	90	0.00
46	T	Dibromomethane	50.000	50.143	-0.3	90	0.00
47	T	Bromodichloromethane	50.000	51.579	-3.2	92	0.00
48	T	Methyl methacrylate	50.000	51.258	-2.5	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	981.246	1.9	84	0.00
50	S	Toluene-d8	50.000	53.391	-6.8	96	0.00
51	T	4-Methyl-2-Pentanone	250.000	259.224	-3.7	87	0.00
52	CM	Toluene	50.000	50.867	-1.7#	90	0.00
53	T	t-1,3-Dichloropropene	50.000	51.862	-3.7	91	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.308	-2.6	89	0.00
55	T	1,1,2-Trichloroethane	50.000	49.796	0.4	89	0.00
56	T	Ethyl methacrylate	50.000	51.235	-2.5	87	0.00
57	T	1,3-Dichloropropane	50.000	50.576	-1.2	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	264.951	-6.0	89	0.00
59	T	2-Hexanone	250.000	258.586	-3.4	86	0.00
60	T	Dibromochloromethane	50.000	51.129	-2.3	89	0.00
61	T	1,2-Dibromoethane	50.000	50.508	-1.0	89	0.00
62	S	4-Bromofluorobenzene	50.000	54.089	-8.2	94	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	90	0.00
64	T	Tetrachloroethene	50.000	50.651	-1.3	93	0.00
65	PM	Chlorobenzene	50.000	50.505	-1.0	90	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.389	-0.8	89	0.00
67	C	Ethyl Benzene	50.000	51.021	-2.0#	90	0.00
68	T	m/p-Xylenes	100.000	102.304	-2.3	89	0.00
69	T	o-Xylene	50.000	50.681	-1.4	91	0.00
70	T	Styrene	50.000	52.714	-5.4	90	0.00
71	P	Bromoform	50.000	52.200	-4.4	87	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73	T	Isopropylbenzene	50.000	49.681	0.6	90	0.00
74	T	N-amyl acetate	50.000	49.552	0.9	86	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.588	6.8	86	0.00
76	T	1,2,3-Trichloropropane	50.000	48.593	2.8	88	0.00
77	T	Bromobenzene	50.000	49.976	0.0	91	0.00
78	T	n-propylbenzene	50.000	50.880	-1.8	91	0.00
79	T	2-Chlorotoluene	50.000	48.568	2.9	89	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.419	-0.8	90	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.260	5.5	85	0.00
82	T	4-Chlorotoluene	50.000	50.585	-1.2	91	0.00
83	T	tert-Butylbenzene	50.000	49.664	0.7	90	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.841	-1.7	89	0.00
85	T	sec-Butylbenzene	50.000	51.270	-2.5	92	0.00
86	T	p-Isopropyltoluene	50.000	51.626	-3.3	91	0.00
87	T	1,3-Dichlorobenzene	50.000	49.394	1.2	90	0.00
88	T	1,4-Dichlorobenzene	50.000	48.539	2.9	89	0.00
89	T	n-Butylbenzene	50.000	53.945	-7.9	92	0.00
90	T	Hexachloroethane	50.000	49.010	2.0	89	0.00
91	T	1,2-Dichlorobenzene	50.000	48.817	2.4	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.833	4.3	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.856	-1.7	91	0.00
94	T	Hexachlorobutadiene	50.000	51.753	-3.5	97	0.00
95	T	Naphthalene	50.000	49.423	1.2	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	50.809	-1.6	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG No.: Q1347

Instrument ID: MSVOA_X Calibration Date/Time: 02/12/2025 20:11

Lab File ID: VX044946.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.854	0.806	0.1	-5.62	50
Vinyl Chloride	0.827	0.747		-9.67	50
Bromomethane	0.247	0.253		2.43	50
Chloroethane	0.307	0.406		32.25	50
Trichlorofluoromethane	1.046	1.013		-3.15	50
1,1,2-Trichlorotrifluoroethane	0.632	0.589		-6.8	50
1,1-Dichloroethene	0.644	0.602		-6.52	50
Acetone	0.294	0.304		3.4	50
Carbon Disulfide	1.767	1.520		-13.98	50
Methyl tert-butyl Ether	2.050	1.979		-3.46	50
Methylene Chloride	0.721	0.685		-4.99	50
trans-1,2-Dichloroethene	0.634	0.607		-4.26	50
1,1-Dichloroethane	1.233	1.191	0.1	-3.41	50
2-Butanone	0.478	0.500		4.6	50
Carbon Tetrachloride	0.460	0.437		-5	50
cis-1,2-Dichloroethene	0.762	0.739		-3.02	50
Chloroform	1.196	1.171		-2.09	50
1,1,1-Trichloroethane	1.014	0.973		-4.04	50
Methylcyclohexane	0.606	0.564		-6.93	50
Benzene	1.465	1.409		-3.82	50
1,2-Dichloroethane	0.467	0.478		2.36	50
Trichloroethene	0.335	0.311		-7.16	50
1,2-Dichloropropane	0.364	0.353		-3.02	50
Bromodichloromethane	0.489	0.487		-0.41	50
4-Methyl-2-Pentanone	0.512	0.552		7.81	50
Toluene	0.872	0.851		-2.41	50
t-1,3-Dichloropropene	0.495	0.468		-5.45	50
cis-1,3-Dichloropropene	0.552	0.530		-3.99	50
1,1,2-Trichloroethane	0.335	0.336		0.3	50
2-Hexanone	0.369	0.410		11.11	50
Dibromochloromethane	0.359	0.353		-1.67	50
Tetrachloroethene	0.315	0.294		-6.67	50
Chlorobenzene	1.074	1.019	0.3	-5.12	50
Ethyl Benzene	1.895	1.798		-5.12	50
m/p-Xylenes	0.699	0.671		-4.01	50
o-Xylene	0.701	0.666		-4.99	50
Styrene	1.130	1.122		-0.71	50
Bromoform	0.258	0.248	0.1	-3.88	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1347 SAS No.: Q1347 SDG No.: Q1347

Instrument ID: MSVOA_X Calibration Date/Time: 02/12/2025 20:11

Lab File ID: VX044946.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.026	3.804		-5.51	50
1,1,2,2-Tetrachloroethane	1.383	1.299	0.3	-6.07	50
1,3-Dichlorobenzene	1.678	1.564		-6.79	50
1,4-Dichlorobenzene	1.697	1.566		-7.72	50
1,2-Dichlorobenzene	1.650	1.569		-4.91	50
1,2-Dichloroethane-d4	0.732	0.710		-3.01	50
Dibromofluoromethane	0.325	0.305		-6.15	50
Toluene-d8	1.229	1.123		-8.63	50
4-Bromofluorobenzene	0.414	0.400		-3.38	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	108522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	198728	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	178828	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	80774	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	77052	48.504	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.000%			
35) Dibromofluoromethane	5.379	113	60687	46.969	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.940%			
50) Toluene-d8	8.647	98	223161	45.675	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.360%			
62) 4-Bromofluorobenzene	11.079	95	79430	48.224	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	72084	47.359	ug/l	98
3) Chloromethane	1.300	50	87475	47.220	ug/l	98
4) Vinyl Chloride	1.374	62	81080	45.178	ug/l	99
5) Bromomethane	1.593	94	27426	51.069	ug/l	96
6) Chloroethane	1.666	64	44034	68.385	ug/l	98
7) Trichlorofluoromethane	1.874	101	109884	48.416	ug/l	99
8) Diethyl Ether	2.130	74	39489	47.977	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	63924	46.617	ug/l	99
10) Methyl Iodide	2.447	142	87583	49.282	ug/l	97
11) Tert butyl alcohol	2.977	59	68514	232.483	ug/l	99
12) 1,1-Dichloroethene	2.312	96	65314	46.694	ug/l	97
13) Acrolein	2.233	56	78133	256.964	ug/l	100
14) Allyl chloride	2.654	41	118054	46.700	ug/l	97
15) Acrylonitrile	3.062	53	202302	257.102	ug/l	99
16) Acetone	2.380	43	164755	257.987	ug/l	97
17) Carbon Disulfide	2.501	76	164956	43.006	ug/l	99
18) Methyl Acetate	2.703	43	106621	52.907	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	214786	48.262	ug/l	100
20) Methylene Chloride	2.782	84	74373	47.546	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	65906	47.873	ug/l	93
22) Diisopropyl ether	3.757	45	238141	49.794	ug/l	99
23) Vinyl Acetate	3.715	43	961245	246.538	ug/l	99
24) 1,1-Dichloroethane	3.605	63	129256	48.302	ug/l	98
25) 2-Butanone	4.556	43	271094	261.422	ug/l	97
26) 2,2-Dichloropropane	4.471	77	88768	41.829	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	80240	48.523	ug/l	98
28) Bromochloromethane	4.891	49	58978	45.861	ug/l	99
29) Tetrahydrofuran	5.001	42	179030	259.995	ug/l	99
30) Chloroform	5.086	83	127059	48.960	ug/l	100
31) Cyclohexane	5.458	56	113766	46.115	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	105575	47.962	ug/l	99
36) 1,1-Dichloropropene	5.684	75	87398	46.885	ug/l	100
37) Ethyl Acetate	4.708	43	103482	49.909	ug/l	99
38) Carbon Tetrachloride	5.666	117	86813	47.524	ug/l	98
39) Methylcyclohexane	7.373	83	112061	46.499	ug/l	95
40) Benzene	6.031	78	280015	48.106	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	59722	53.812	ug/l		98
42) 1,2-Dichloroethane	6.080	62	94923	51.167	ug/l		99
43) Isopropyl Acetate	6.336	43	169437	50.605	ug/l		99
44) Trichloroethene	7.117	130	61715	46.385	ug/l		98
45) 1,2-Dichloropropane	7.427	63	70100	48.407	ug/l		97
46) Dibromomethane	7.580	93	49903	49.691	ug/l		98
47) Bromodichloromethane	7.818	83	96846	49.803	ug/l		97
48) Methyl methacrylate	7.690	41	82133	52.025	ug/l		99
49) 1,4-Dioxane	7.659	88	32859	970.105	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	548124	269.277	ug/l		99
52) Toluene	8.714	92	169085	48.775	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	92960	47.240	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	105250	47.971	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	66760	50.097	ug/l		98
56) Ethyl methacrylate	9.116	69	110282	51.239	ug/l		98
57) 1,3-Dichloropropane	9.305	76	114977	49.311	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	274468	259.716	ug/l		100
59) 2-Hexanone	9.427	43	407121	277.591	ug/l		97
60) Dibromochloromethane	9.519	129	70163	49.231	ug/l		99
61) 1,2-Dibromoethane	9.604	107	67019	49.619	ug/l		99
64) Tetrachloroethene	9.269	164	52500	46.552	ug/l		95
65) Chlorobenzene	10.073	112	182243	47.447	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	58380	47.222	ug/l		99
67) Ethyl Benzene	10.189	91	321600	47.447	ug/l		99
68) m/p-Xylenes	10.299	106	239927	95.958	ug/l		99
69) o-Xylene	10.640	106	119184	47.505	ug/l		100
70) Styrene	10.652	104	200646	49.640	ug/l		98
71) Bromoform	10.799	173	44310	48.025	ug/l	#	100
73) Isopropylbenzene	10.957	105	307260	47.243	ug/l		99
74) N-amyl acetate	10.841	43	146530	49.788	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	104911	46.942	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	86294m	48.185	ug/l		
77) Bromobenzene	11.195	156	69858	47.377	ug/l		99
78) n-propylbenzene	11.299	91	359442	47.881	ug/l		100
79) 2-Chlorotoluene	11.360	91	213977	46.378	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	252288	47.801	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	29523	42.406	ug/l		91
82) 4-Chlorotoluene	11.451	91	244793	47.958	ug/l		99
83) tert-Butylbenzene	11.713	119	253035	47.391	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	256030	49.150	ug/l		99
85) sec-Butylbenzene	11.890	105	320813	48.523	ug/l		99
86) p-Isopropyltoluene	12.006	119	258941	48.701	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	126325	46.587	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	126465	46.128	ug/l		100
89) n-Butylbenzene	12.329	91	231584	49.233	ug/l		100
90) Hexachloroethane	12.536	117	45316	45.518	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	126735	47.556	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20041	49.133	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	75475	46.804	ug/l		100
94) Hexachlorobutadiene	13.719	225	28958	45.235	ug/l		99
95) Naphthalene	13.774	128	284275	48.767	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	76278	46.943	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

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\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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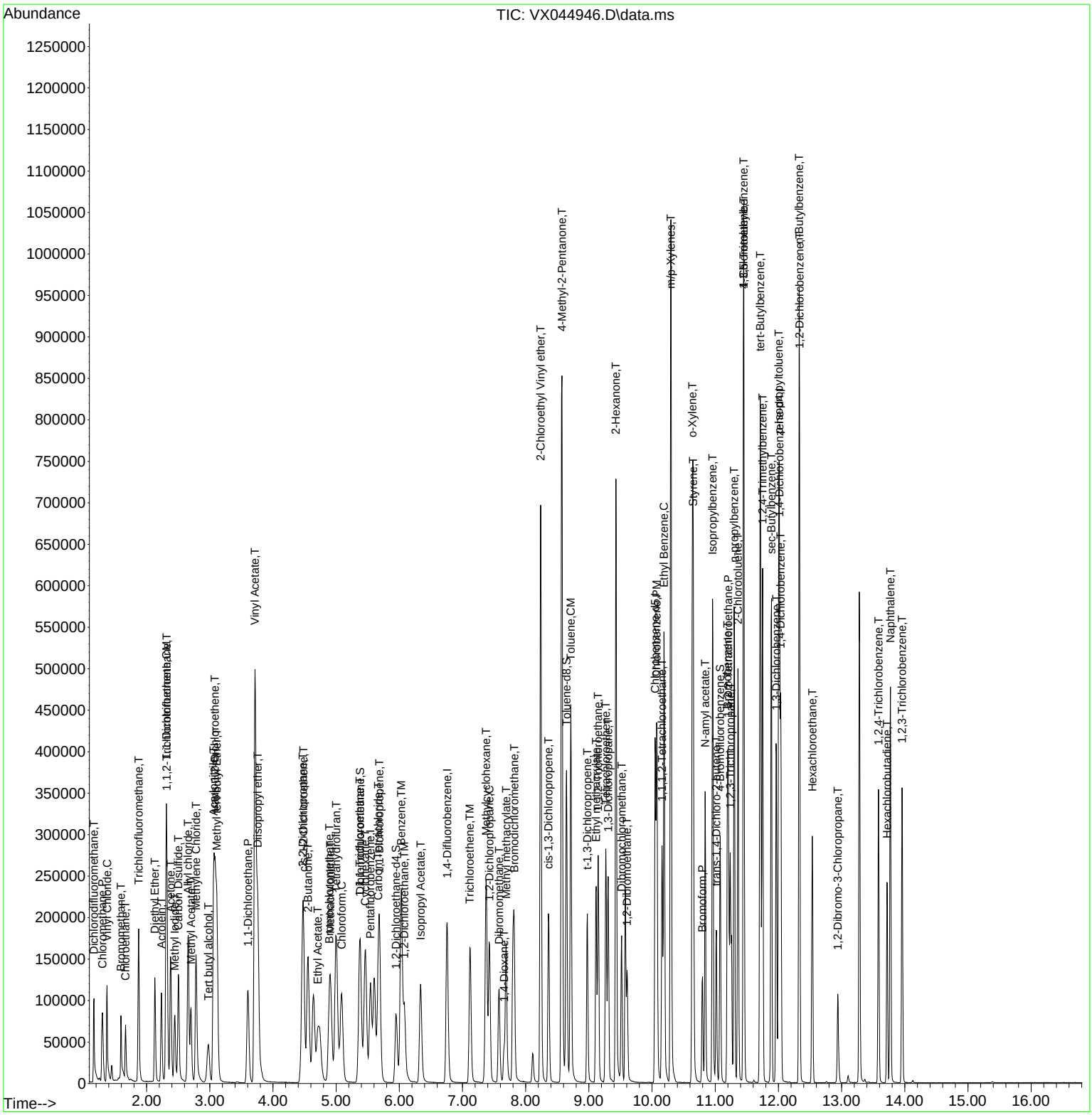
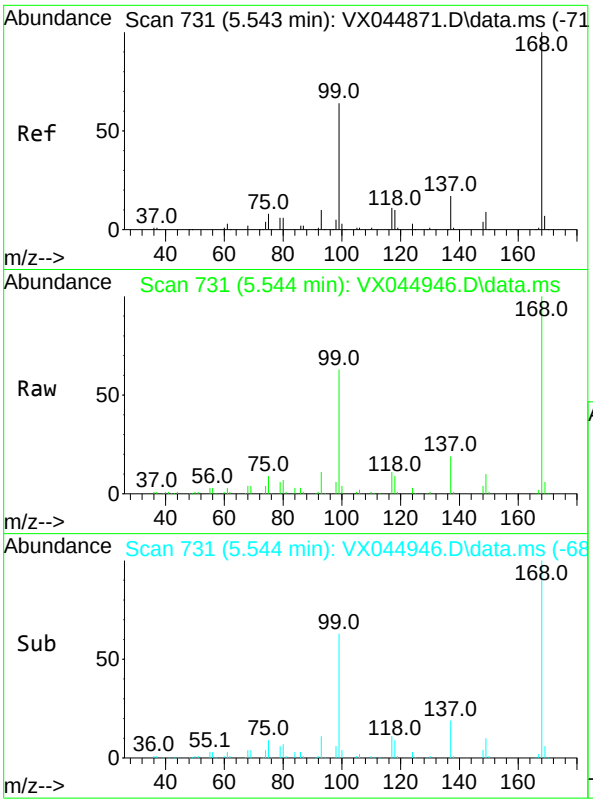
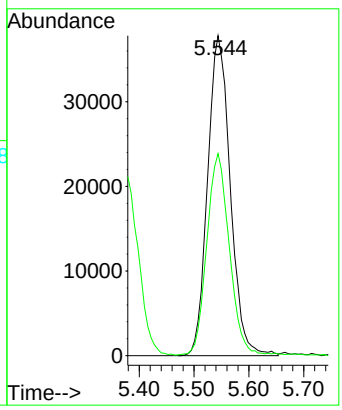




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:168 Resp: 10852

Ion	Ratio	Lower	Upper
168	100		
99	62.9	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/14/2025
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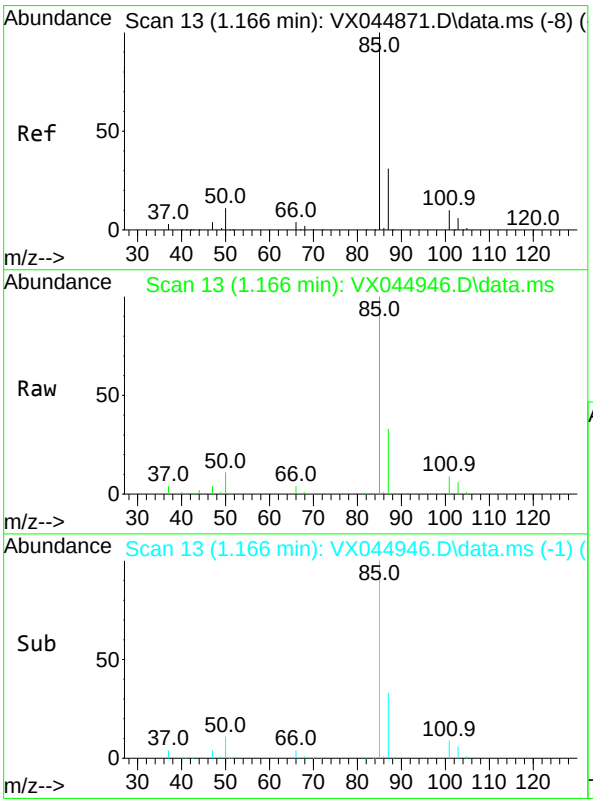
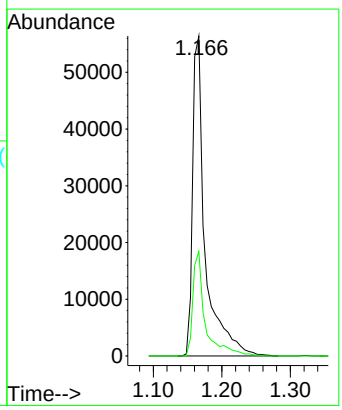
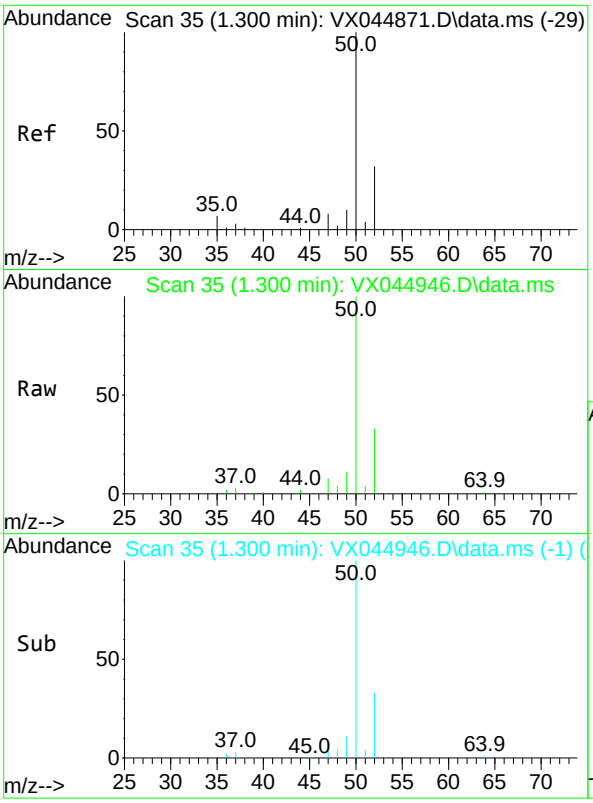


#2
Dichlorodifluoromethane
Concen: 47.359 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 85 Resp: 72084

Ion	Ratio	Lower	Upper
85	100		
87	32.7	15.8	47.3

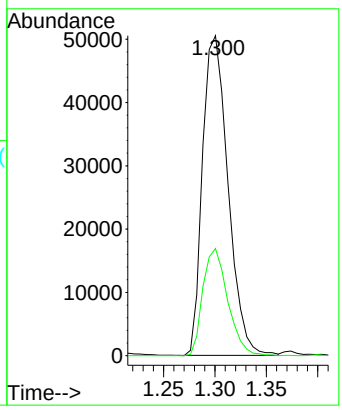




#3
Chloromethane
Concen: 47.220 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 50 Resp: 8747

Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/14/2025
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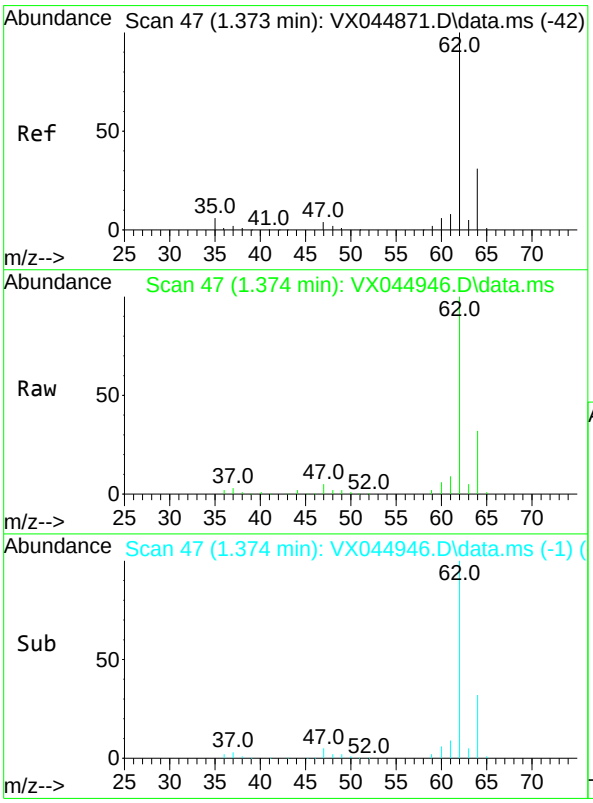
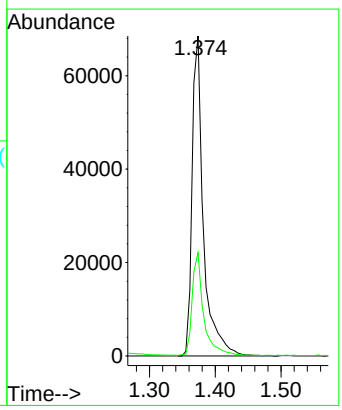
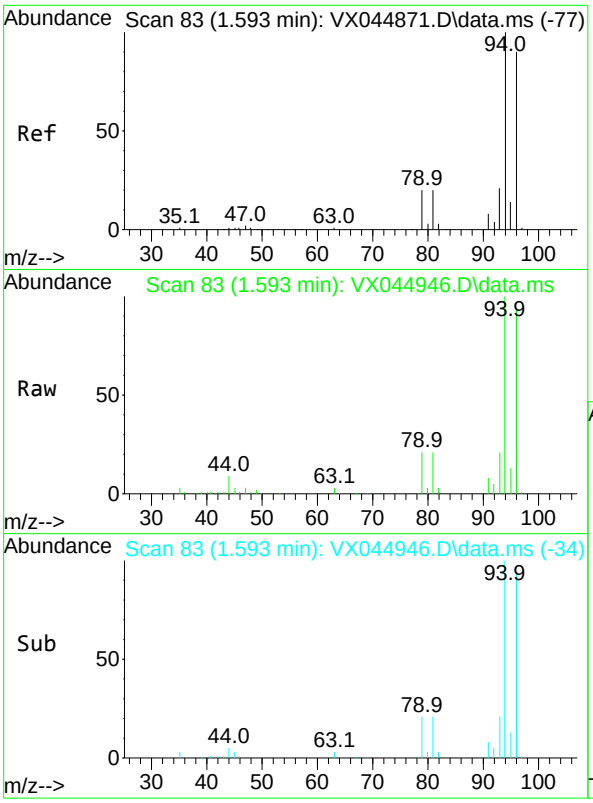


#4
Vinyl Chloride
Concen: 45.178 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 62 Resp: 81080

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0

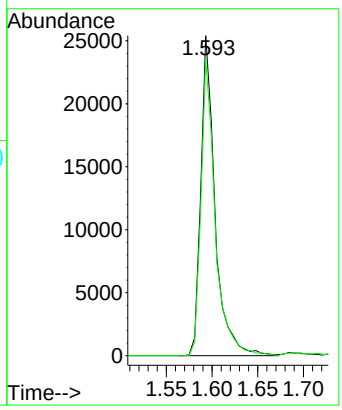




#5
Bromomethane
Concen: 51.069 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 94 Resp: 2742

Ion	Ratio	Lower	Upper
94	100		
96	92.8	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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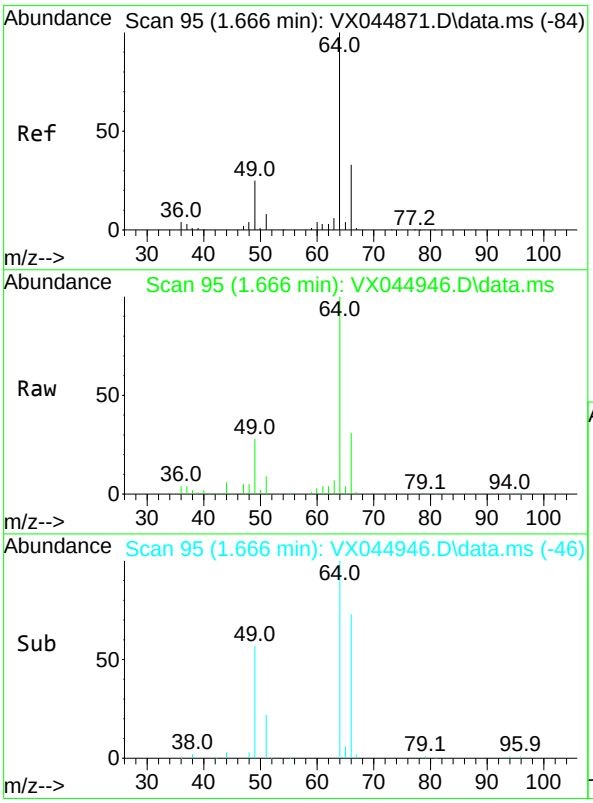
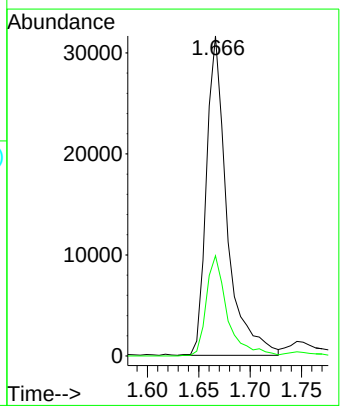
Supervised By :Mahesh Dadoda 02/14/2025

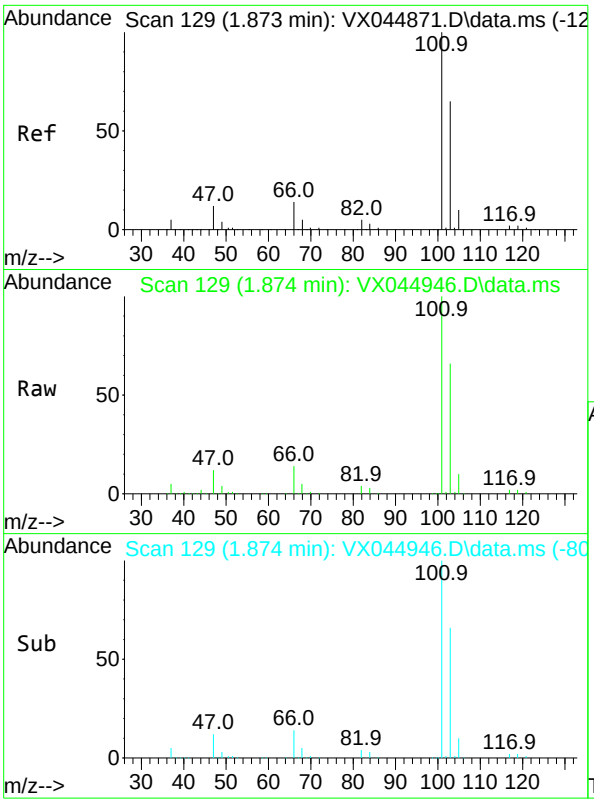


#6
Chloroethane
Concen: 68.385 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 64 Resp: 44034

Ion	Ratio	Lower	Upper
64	100		
66	31.3	25.9	38.9

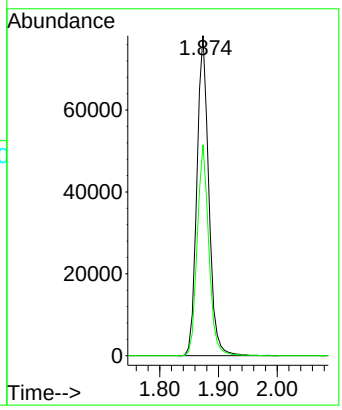




#7
Trichlorofluoromethane
Concen: 48.416 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:101 Resp: 10988

Ion	Ratio	Lower	Upper
101	100		
103	65.9	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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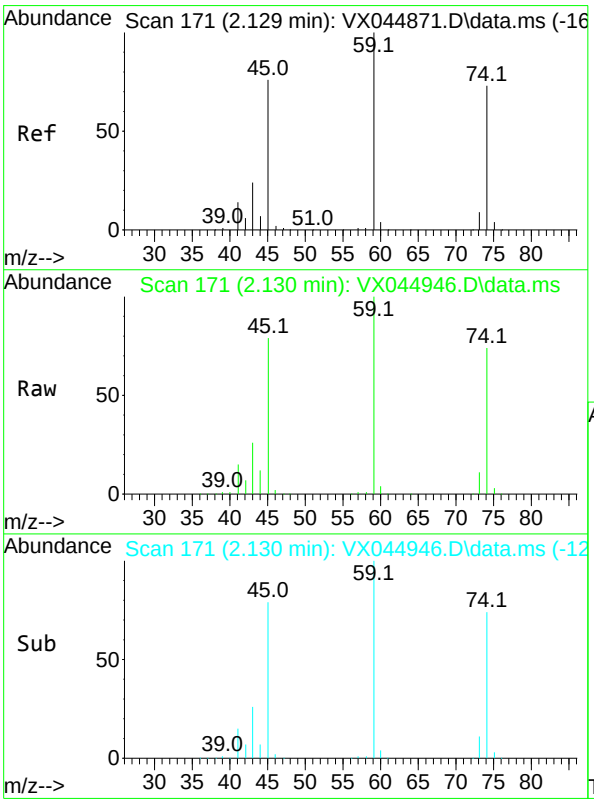
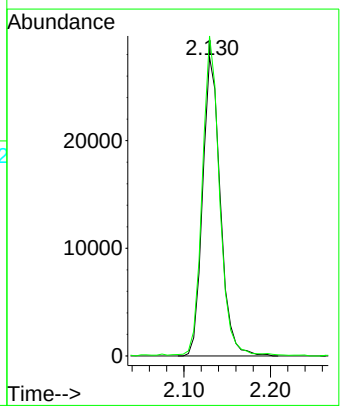
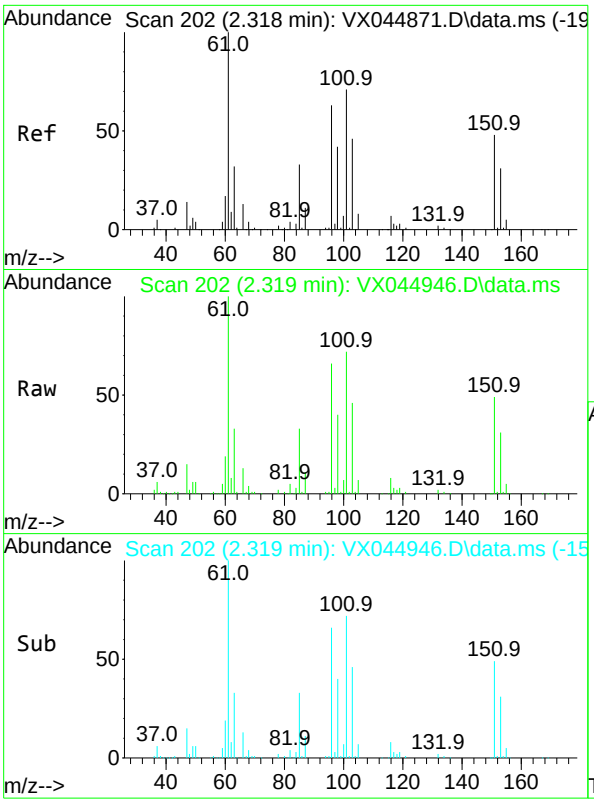


#8
Diethyl Ether
Concen: 47.977 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 74 Resp: 39489

Ion	Ratio	Lower	Upper
74	100		
45	103.7	51.1	153.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.617 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:101 Resp: 6392

Ion	Ratio	Lower	Upper
101	100		
85	45.2	35.7	53.5
151	70.7	56.0	84.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/14/2025
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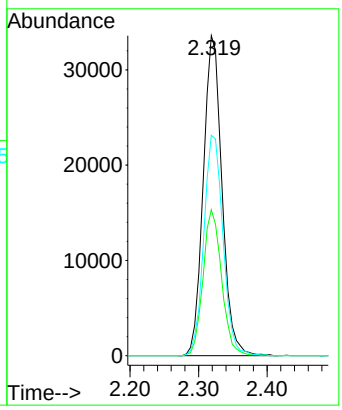
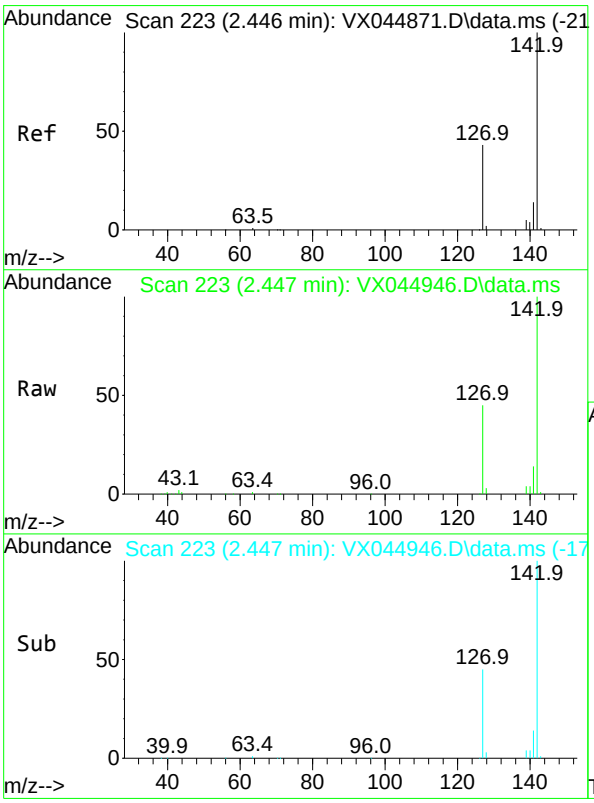
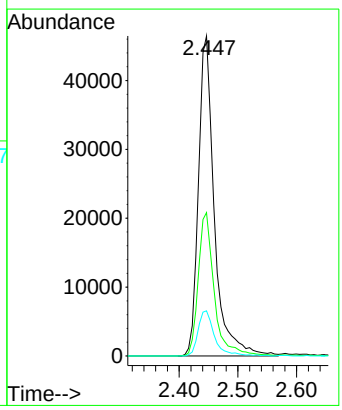


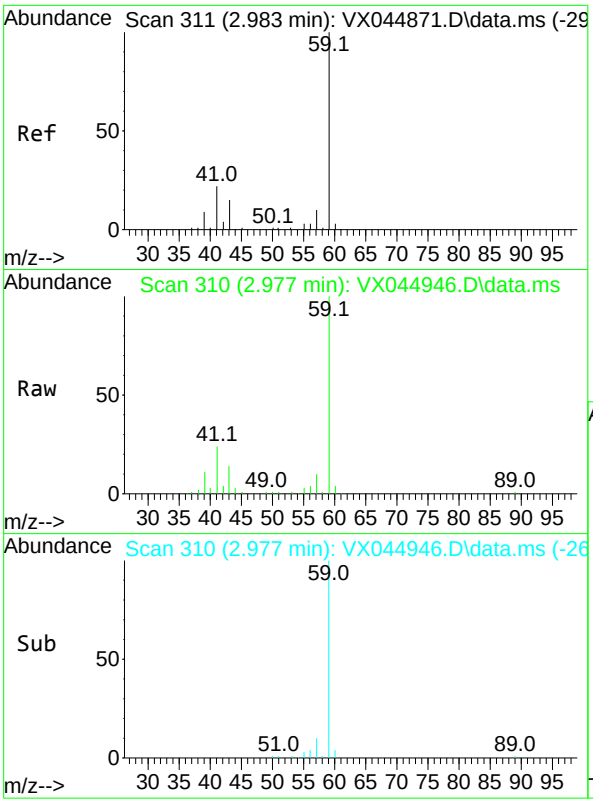


#10
Methyl Iodide
Concen: 49.282 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:142 Resp: 87583

Ion	Ratio	Lower	Upper
142	100		
127	45.0	34.3	51.5
141	14.7	11.4	17.2

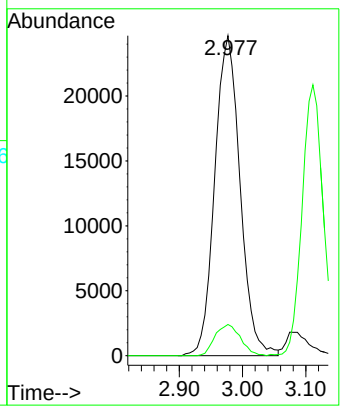




#11
Tert butyl alcohol
Concen: 232.483 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 59 Resp: 6851

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/14/2025
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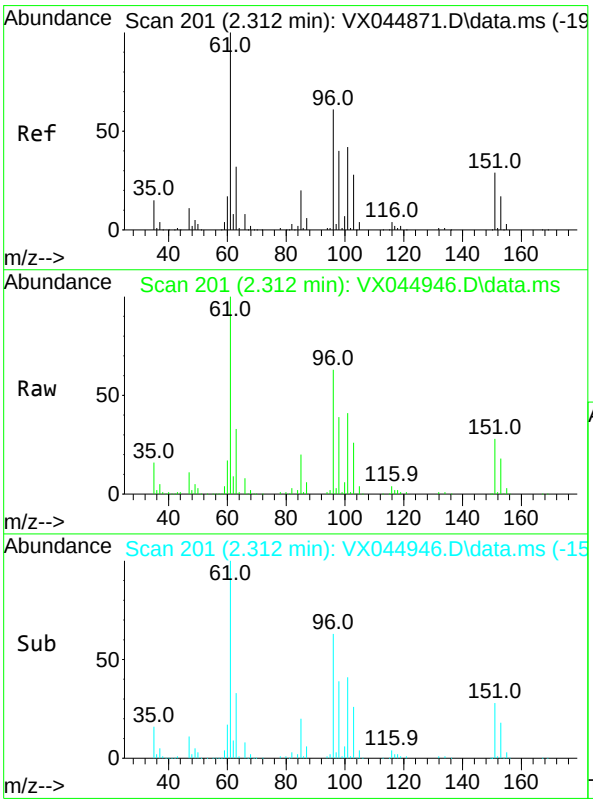
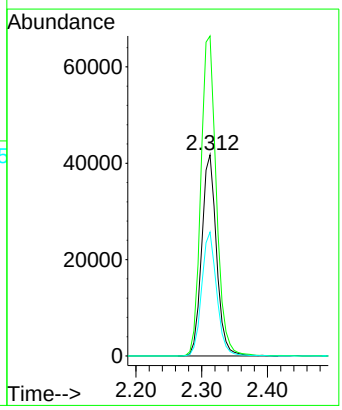
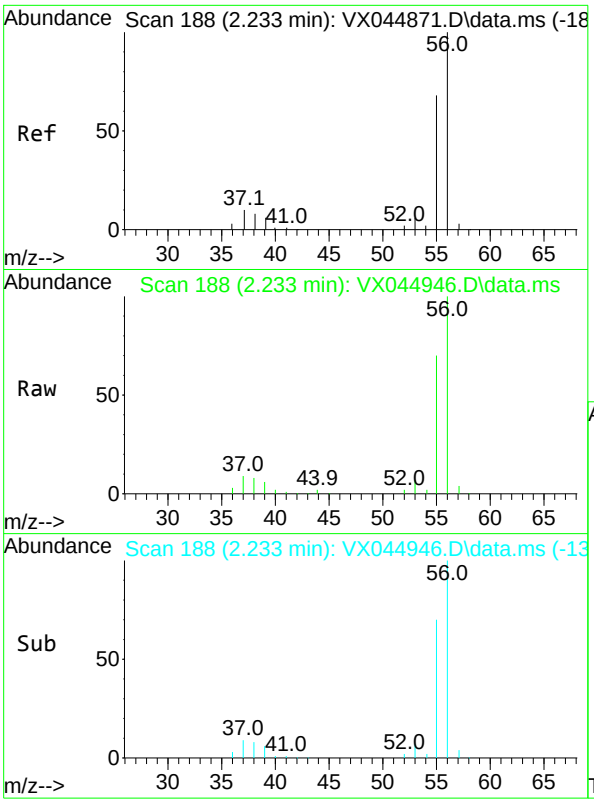


#12
1,1-Dichloroethene
Concen: 46.694 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 96 Resp: 65314

Ion	Ratio	Lower	Upper
96	100		
61	159.2	130.2	195.4
98	61.6	52.2	78.4





#13
Acrolein
Concen: 256.964 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 56 Resp: 7813

Ion	Ratio	Lower	Upper
56	100		
55	69.9	55.7	83.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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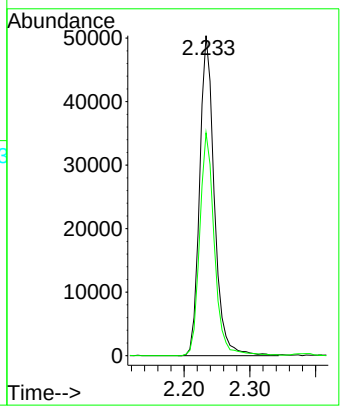
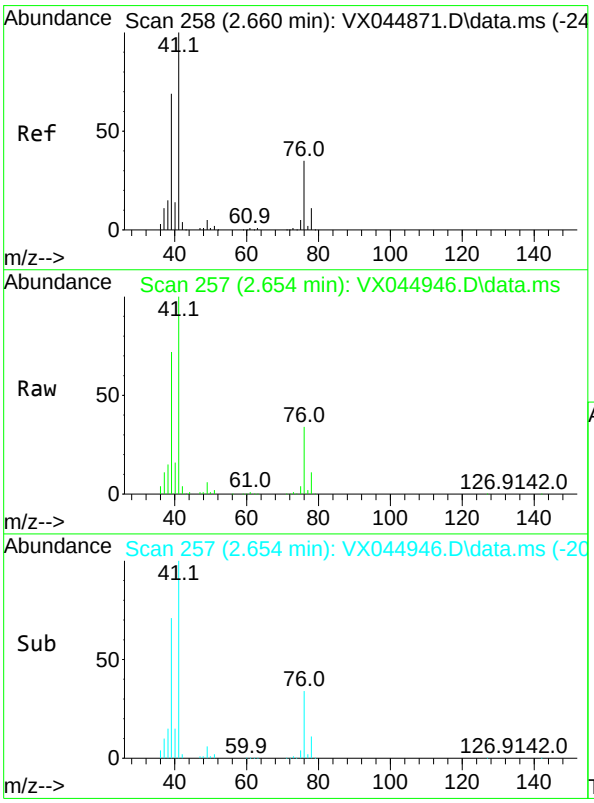
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

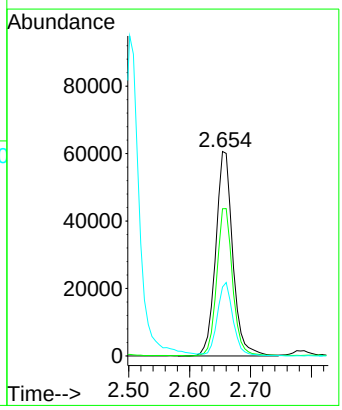


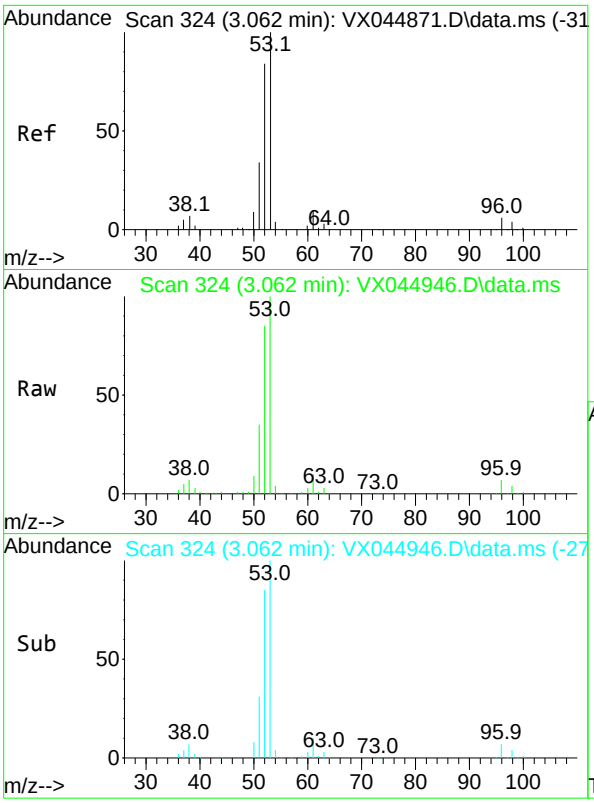


#14
Allyl chloride
Concen: 46.700 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 41 Resp: 118054

Ion	Ratio	Lower	Upper
41	100		
39	67.4	51.4	77.2
76	33.1	27.0	40.4

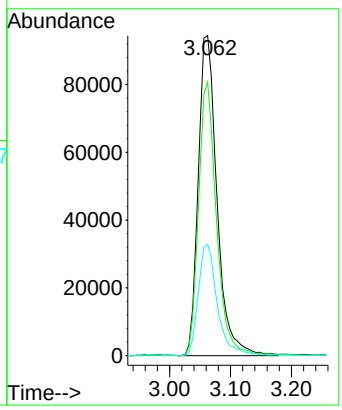




#15
Acrylonitrile
Concen: 257.102 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 53 Resp: 20230

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.0	97.6
51	35.3	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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Reviewed By :John Carlone 02/14/2025
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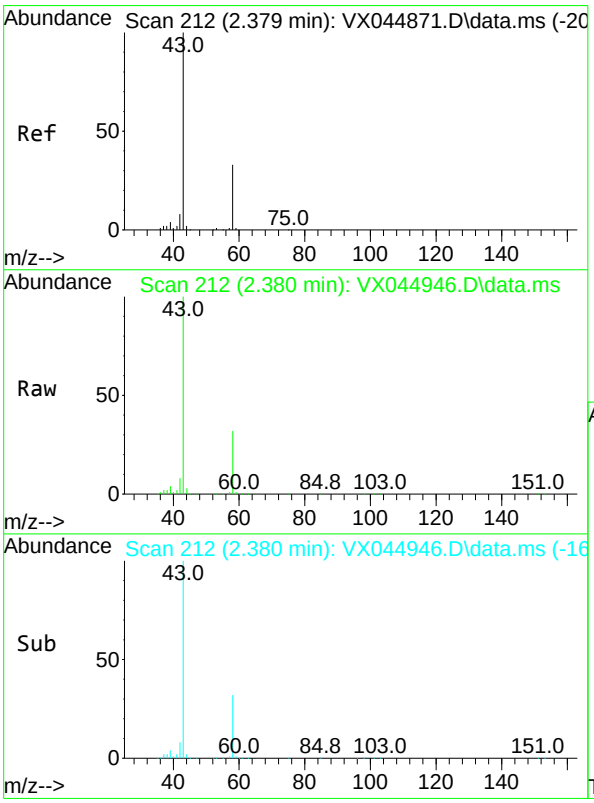
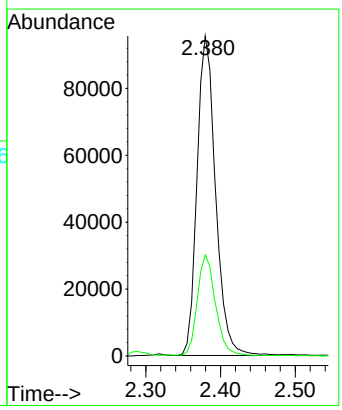
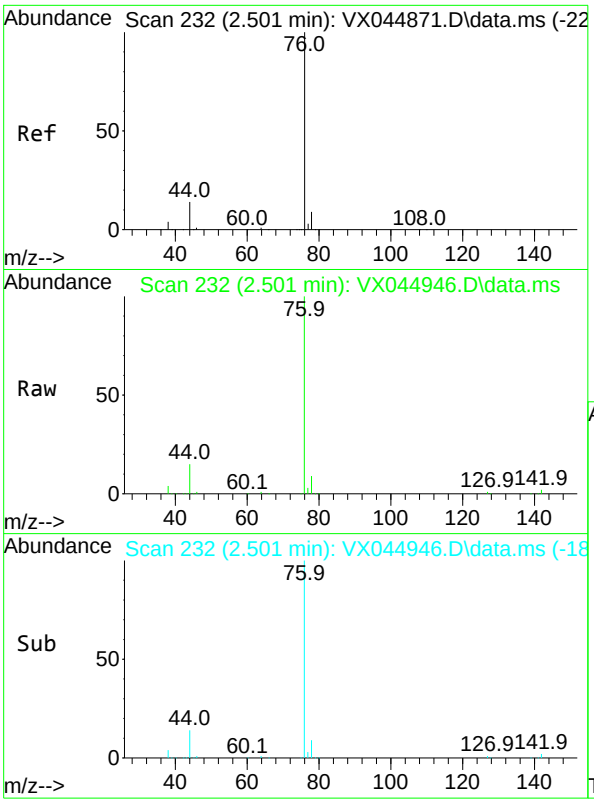


#16
Acetone
Concen: 257.987 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 164755

Ion	Ratio	Lower	Upper
43	100		
58	31.6	26.5	39.7

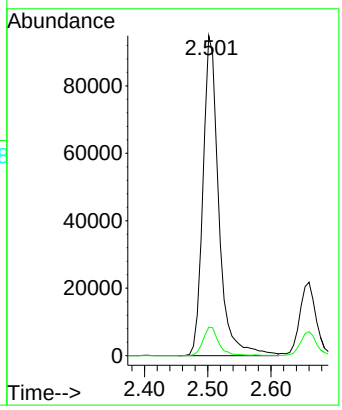




#17
Carbon Disulfide
Concen: 43.006 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 76 Resp: 16495

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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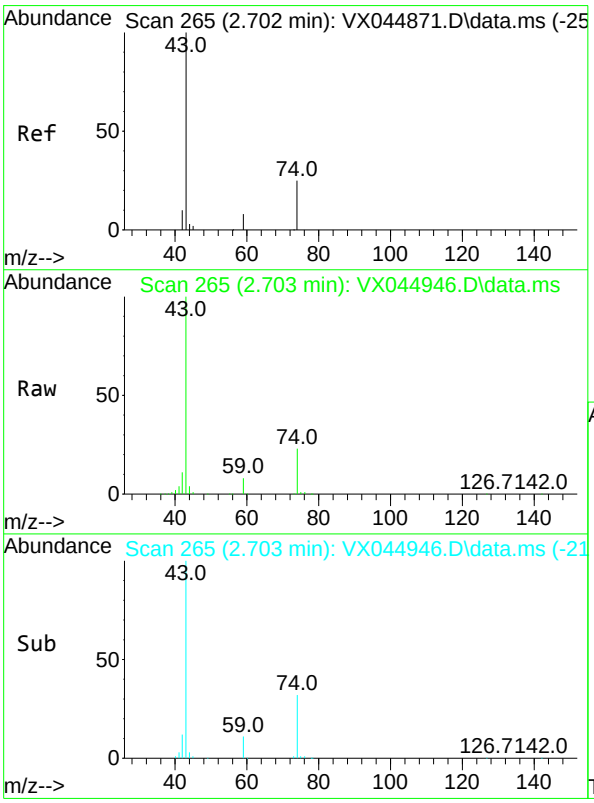
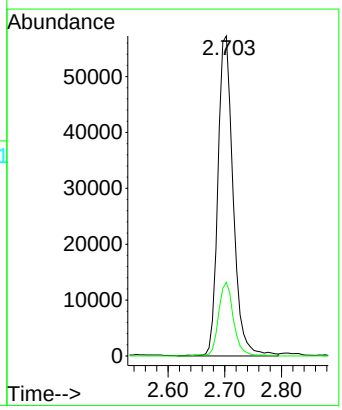
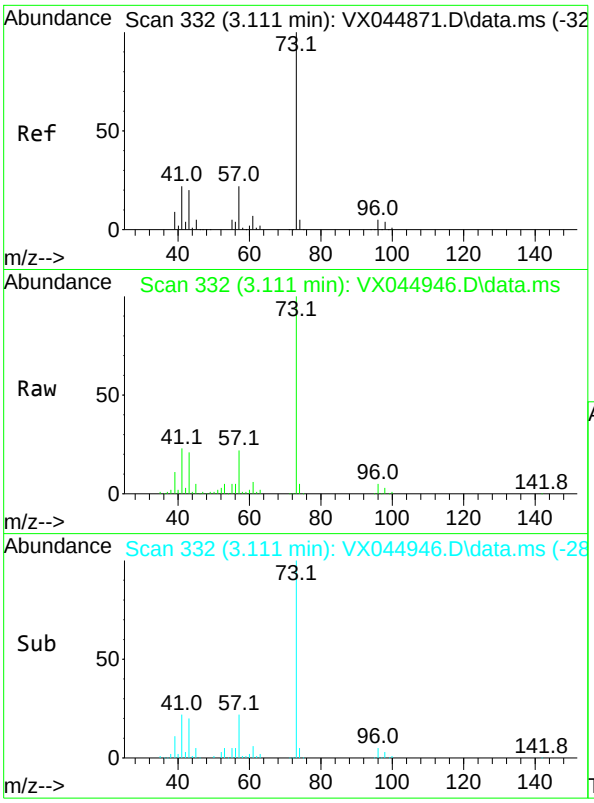


#18
Methyl Acetate
Concen: 52.907 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 106621

Ion	Ratio	Lower	Upper
43	100		
74	22.7	18.9	28.3

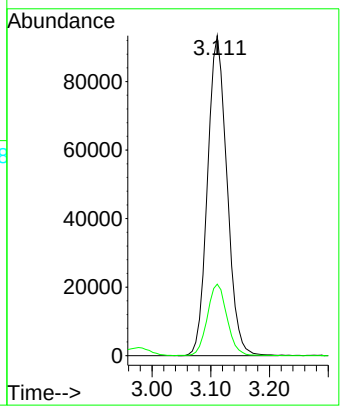




#19
Methyl tert-butyl Ether
Concen: 48.262 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 73 Resp: 21478

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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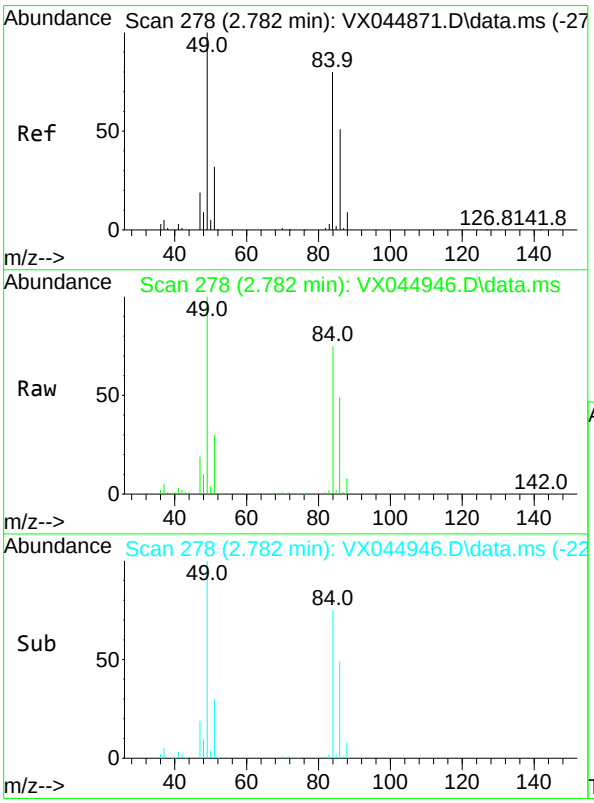
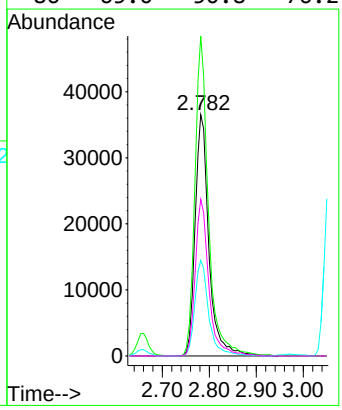
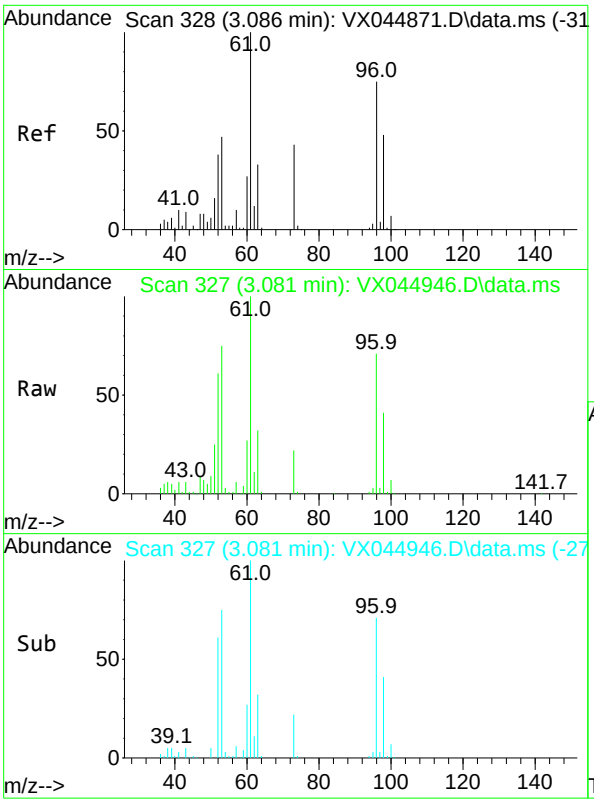


#20
Methylene Chloride
Concen: 47.546 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 84 Resp: 74373

Ion	Ratio	Lower	Upper
84	100		
49	132.7	100.1	150.1
51	39.6	31.7	47.5
86	65.0	50.8	76.2

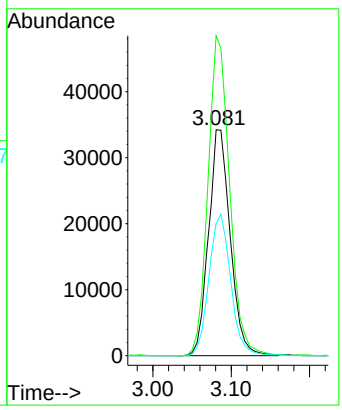




#21
trans-1,2-Dichloroethene
Concen: 47.873 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 96 Resp: 6590

Ion	Ratio	Lower	Upper
96	100		
61	141.7	106.0	159.0
98	58.7	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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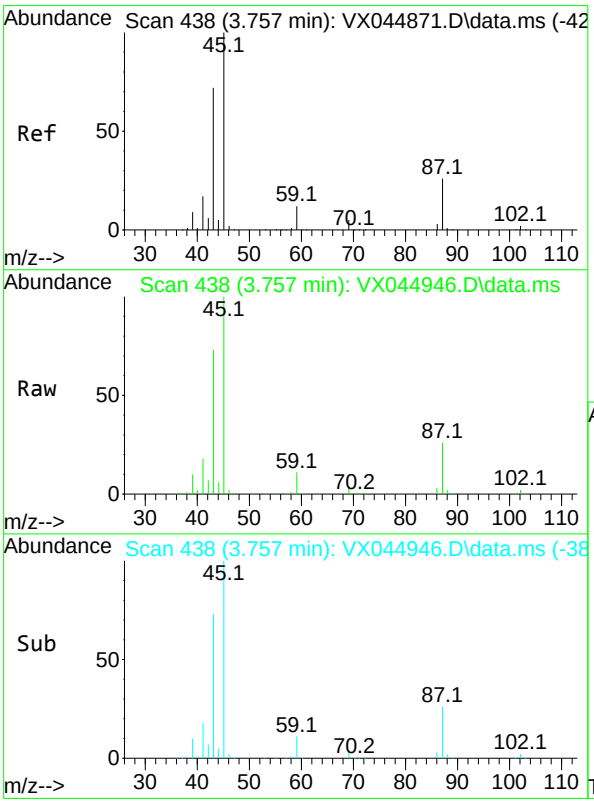
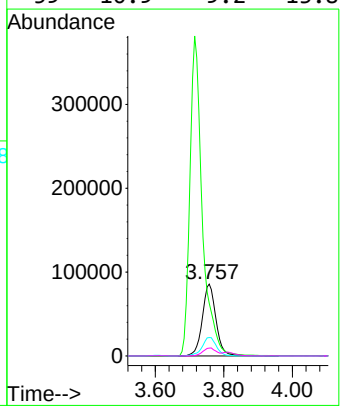
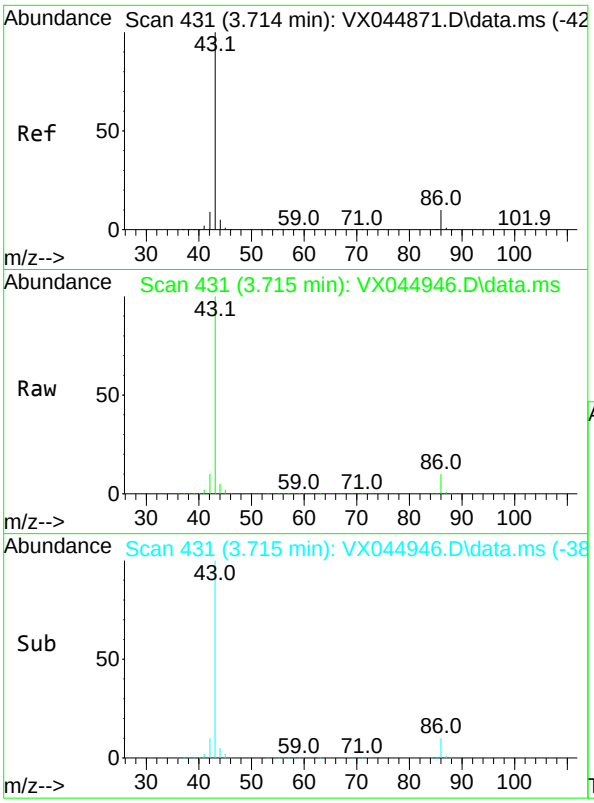


#22
Diisopropyl ether
Concen: 49.794 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 45 Resp: 238141

Ion	Ratio	Lower	Upper
45	100		
43	73.1	58.0	87.0
87	25.6	20.7	31.1
59	10.9	9.2	13.8

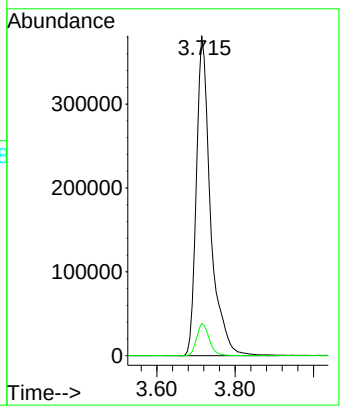




#23
Vinyl Acetate
Concen: 246.538 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 96124

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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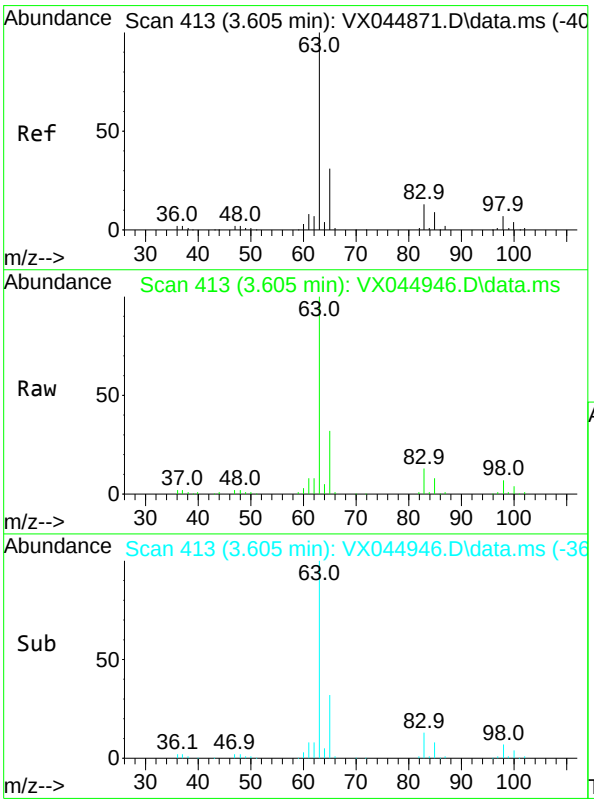
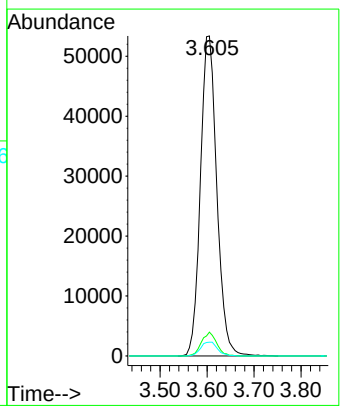
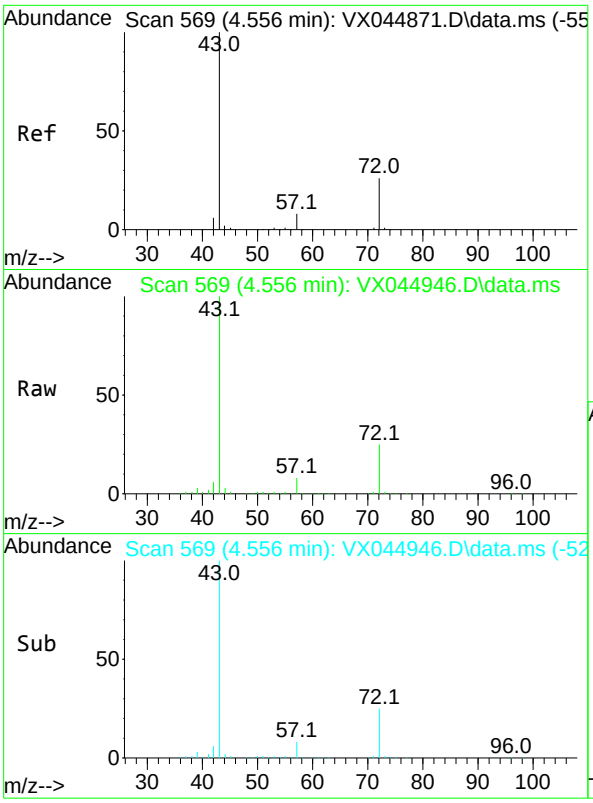


#24
1,1-Dichloroethane
Concen: 48.302 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 63 Resp: 129256

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.3	9.9
100	4.3	2.1	6.5

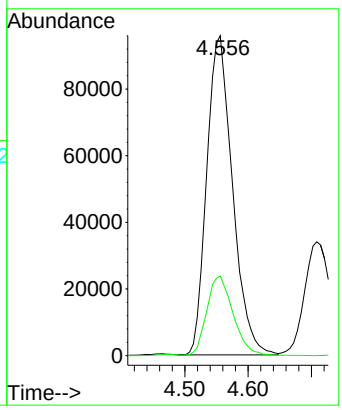




#25
2-Butanone
Concen: 261.422 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 27109

Ion	Ratio	Lower	Upper
43	100		
72	24.7	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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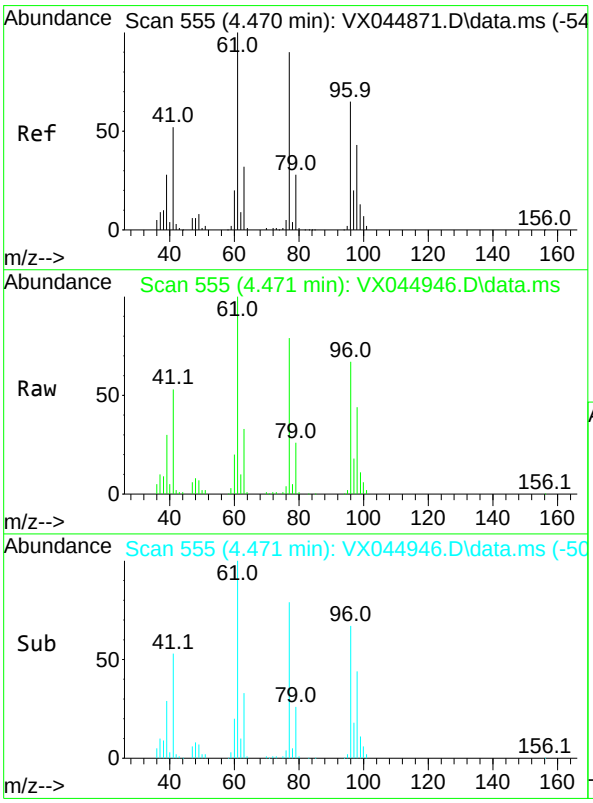
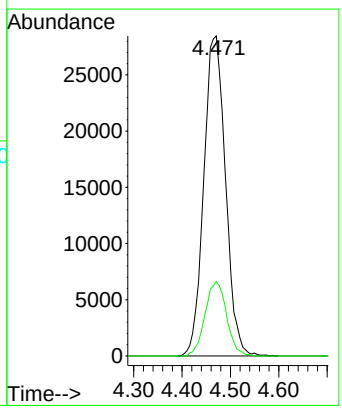
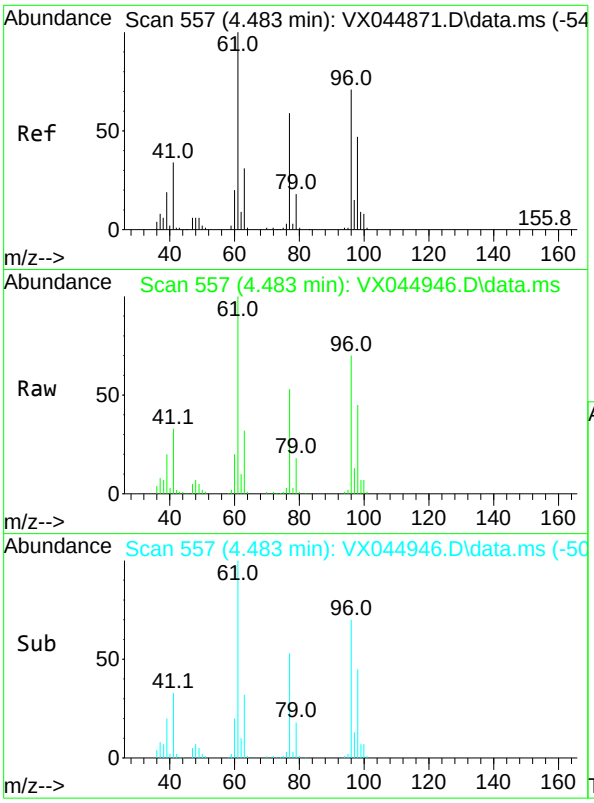


#26
2,2-Dichloropropane
Concen: 41.829 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 77 Resp: 88768

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.8	35.3

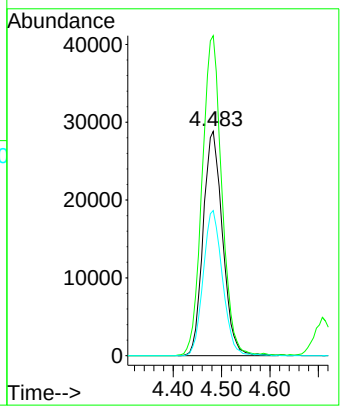




#27
cis-1,2-Dichloroethene
Concen: 48.523 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 96 Resp: 8024

Ion	Ratio	Lower	Upper
96	100		
61	144.9	0.0	294.0
98	64.6	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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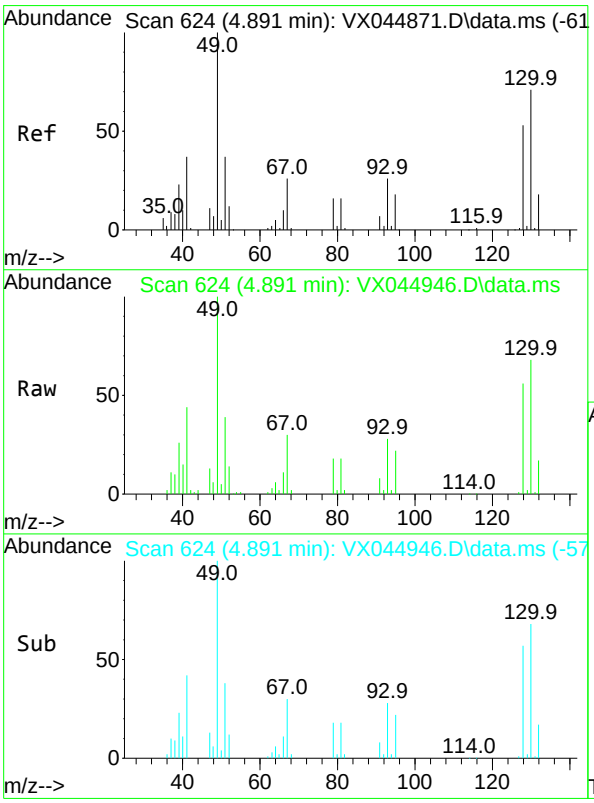
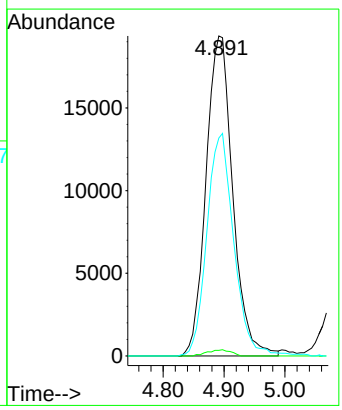
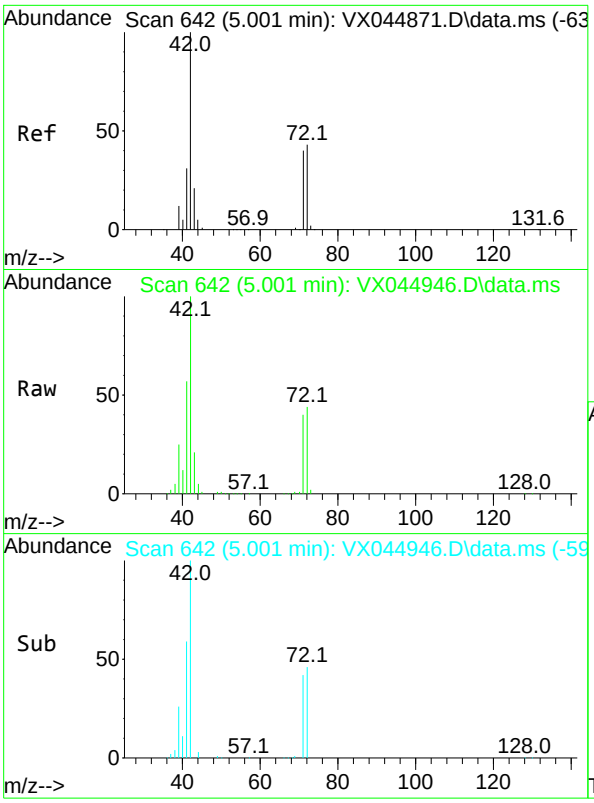


#28
Bromochloromethane
Concen: 45.861 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 49 Resp: 58978

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	70.4	56.7	85.1

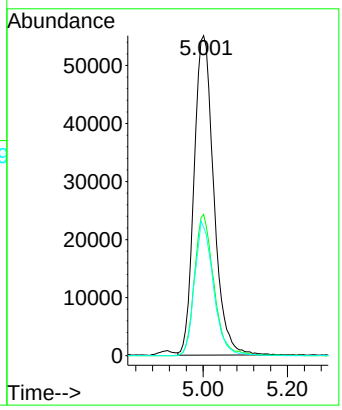




#29
Tetrahydrofuran
Concen: 259.995 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 42 Resp: 17903

Ion	Ratio	Lower	Upper
42	100		
72	43.4	35.0	52.4
71	40.3	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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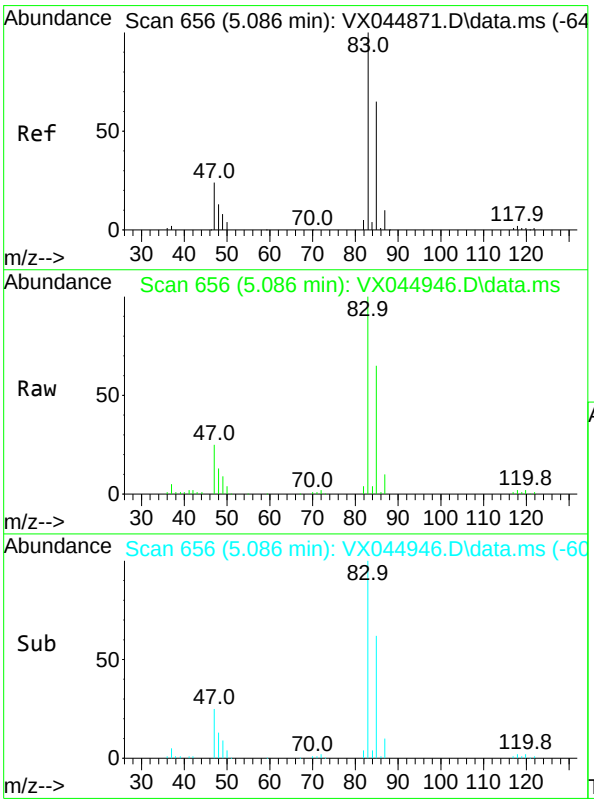
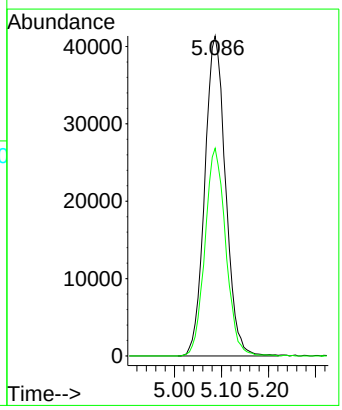
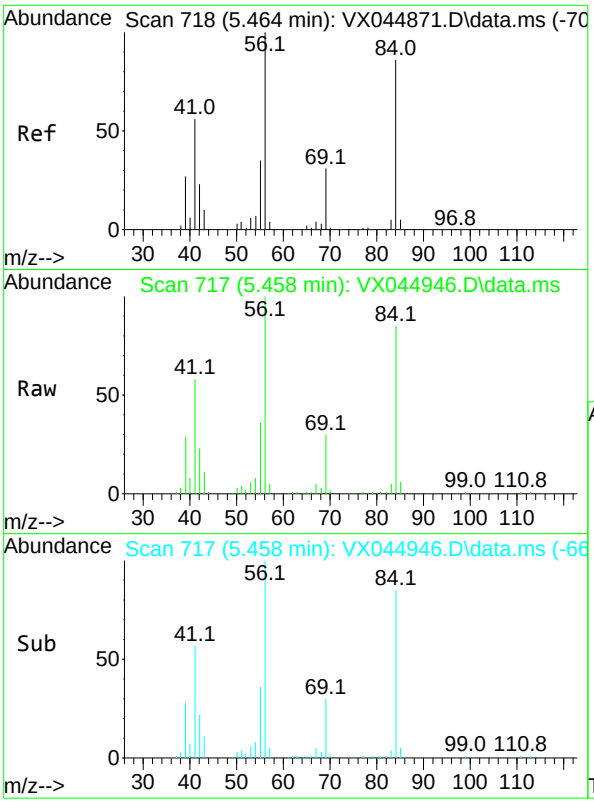


#30
Chloroform
Concen: 48.960 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 83 Resp: 127059

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.1	78.1

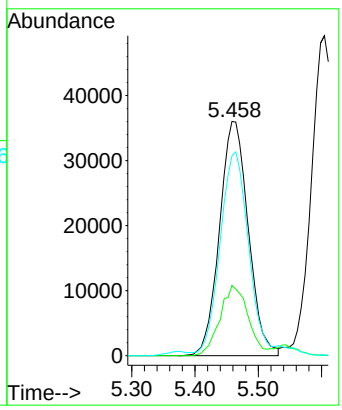




#31
Cyclohexane
Concen: 46.115 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 56 Resp: 11376

Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	83.4	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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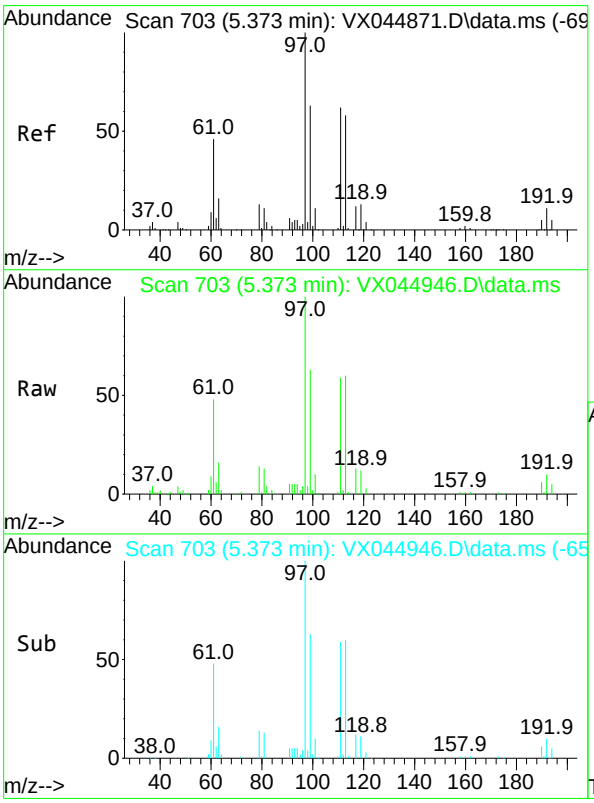
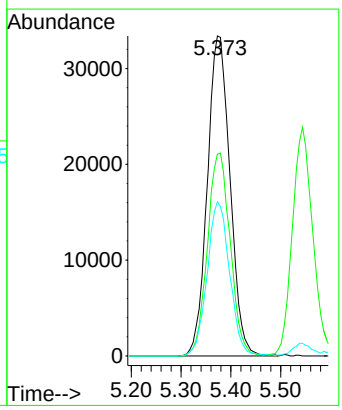
Supervised By :Mahesh Dadoda 02/14/2025

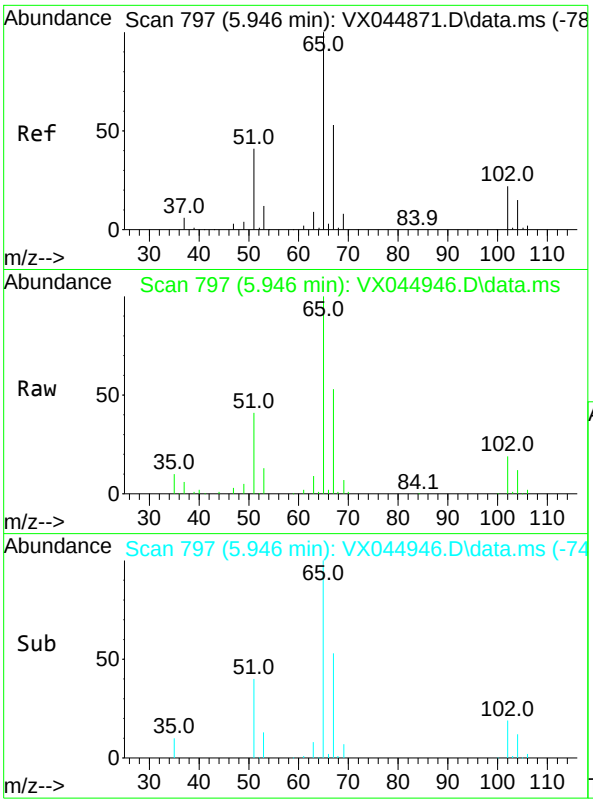


#32
1,1,1-Trichloroethane
Concen: 47.962 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 97 Resp: 105575

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.0	76.6
61	47.9	36.6	55.0

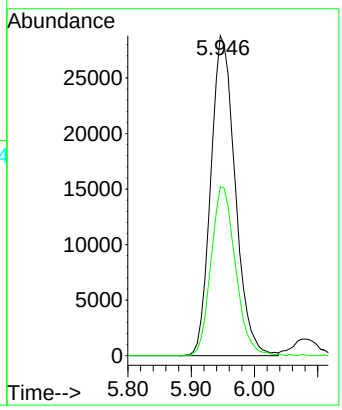




#33
1,2-Dichloroethane-d4
Concen: 48.504 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 65 Resp: 7705

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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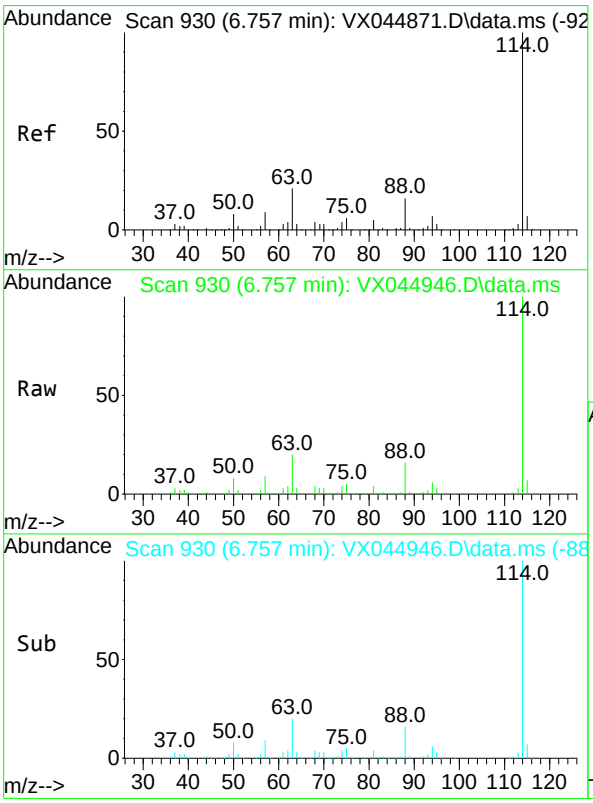
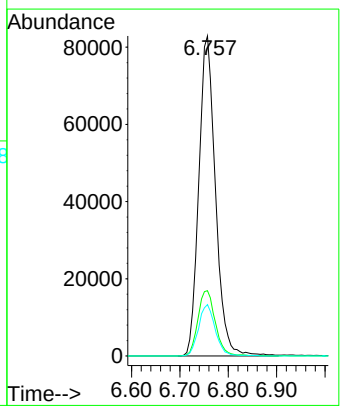
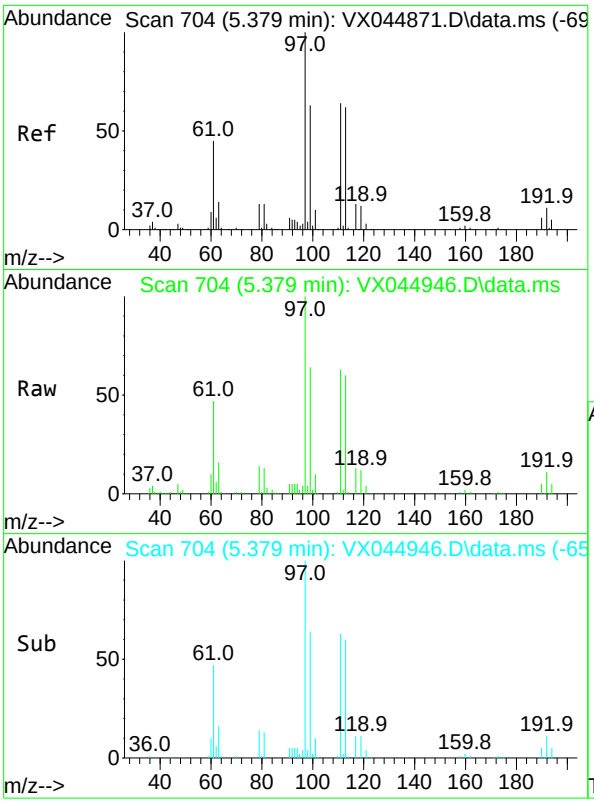


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:114 Resp: 198728

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.4
88	16.0	0.0	31.4

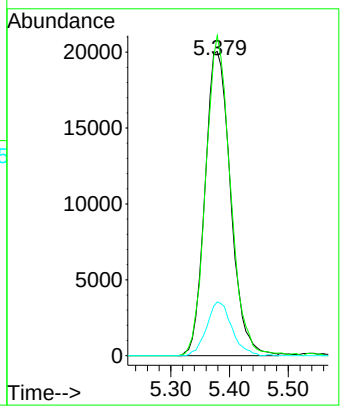




#35
Dibromofluoromethane
Concen: 46.969 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:113 Resp: 6068

Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.5	125.3
192	17.3	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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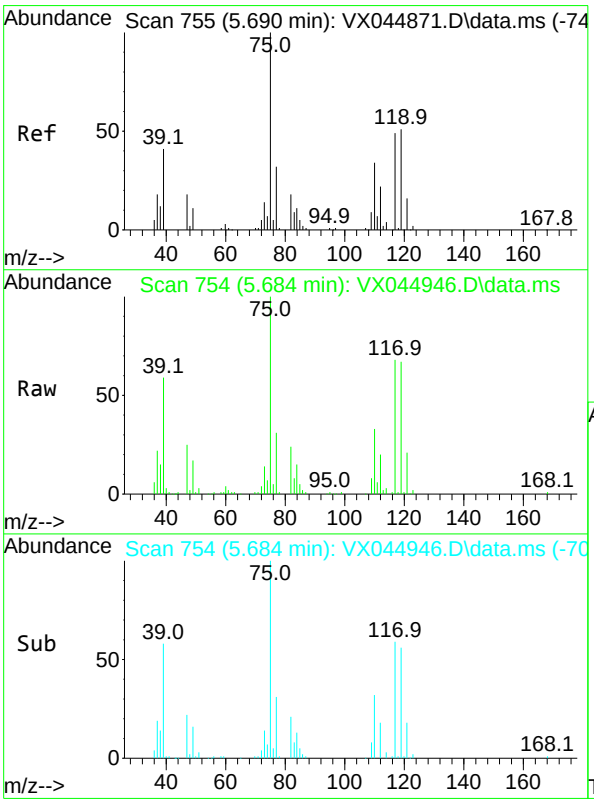
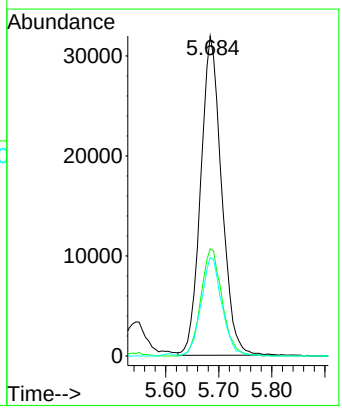
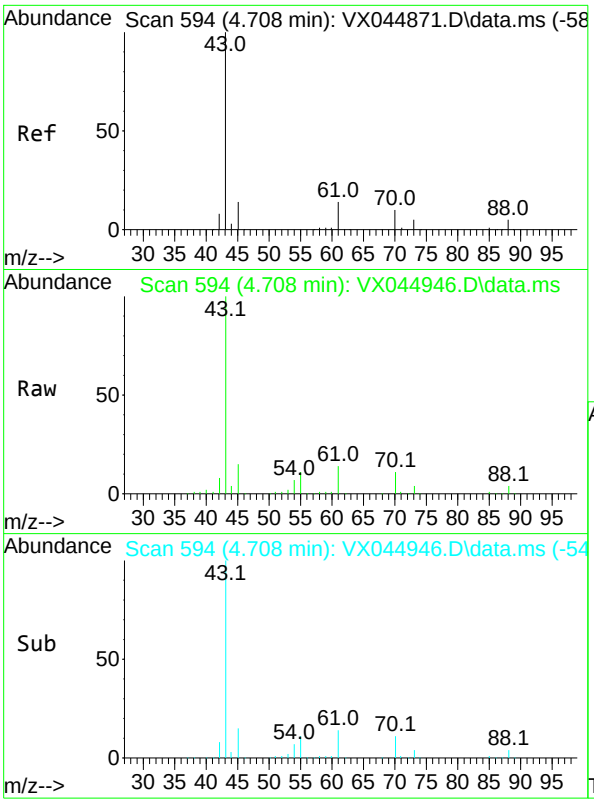


#36
1,1-Dichloropropene
Concen: 46.885 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 87398

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.2	51.6
77	30.7	24.6	37.0

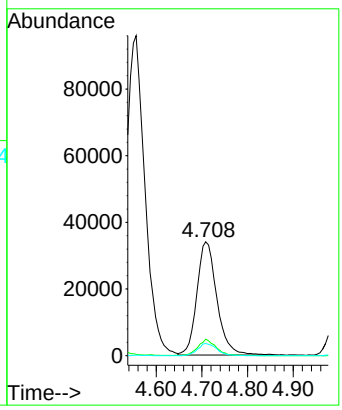




#37
Ethyl Acetate
Concen: 49.909 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 10348

Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.0	16.4
70	10.3	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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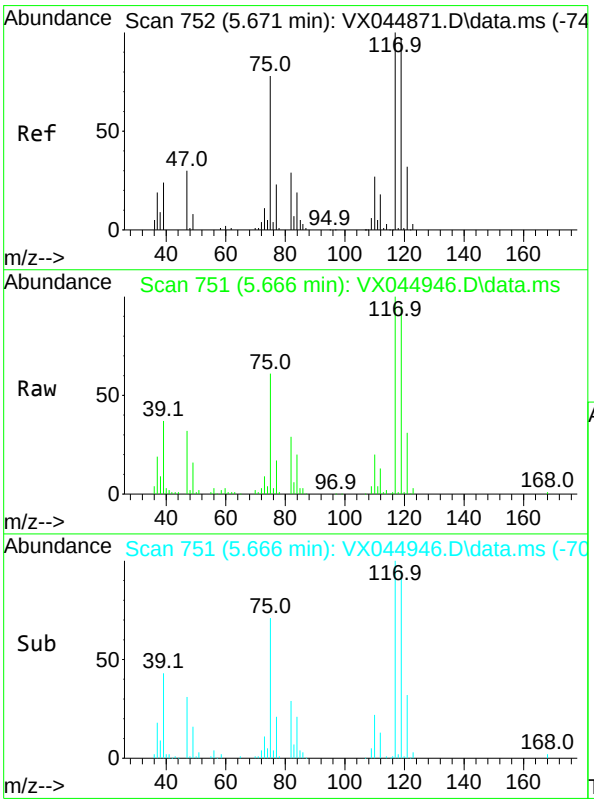
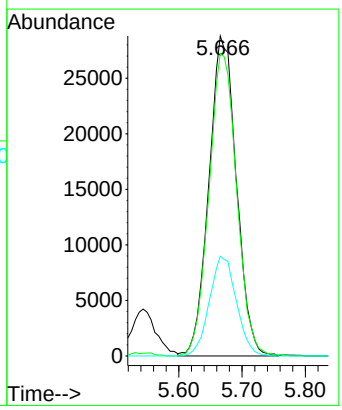
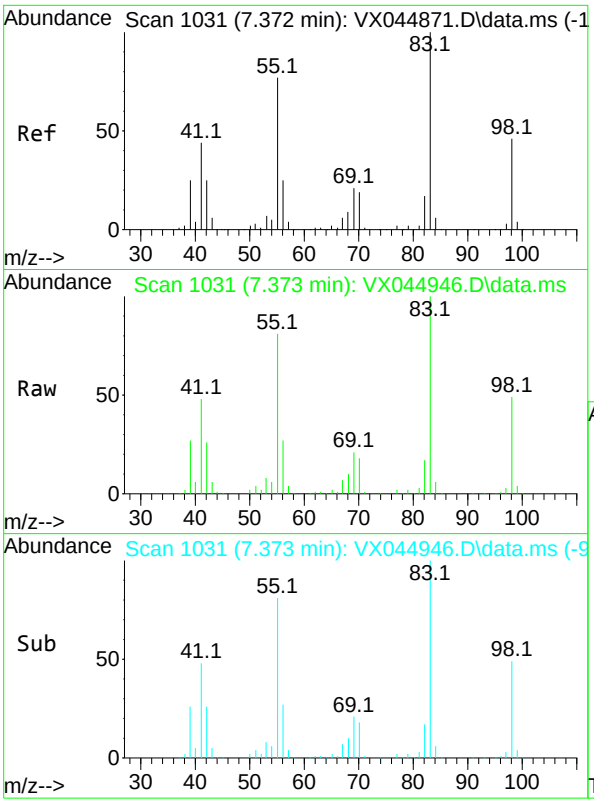


#38
Carbon Tetrachloride
Concen: 47.524 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:117 Resp: 86813

Ion	Ratio	Lower	Upper
117	100		
119	94.5	77.5	116.3
121	31.2	25.6	38.4

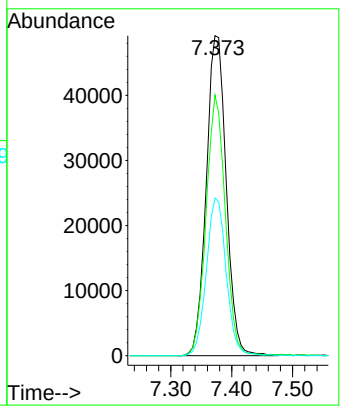




#39
Methylcyclohexane
Concen: 46.499 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 83 Resp: 11206

Ion	Ratio	Lower	Upper
83	100		
55	81.5	61.3	91.9
98	49.2	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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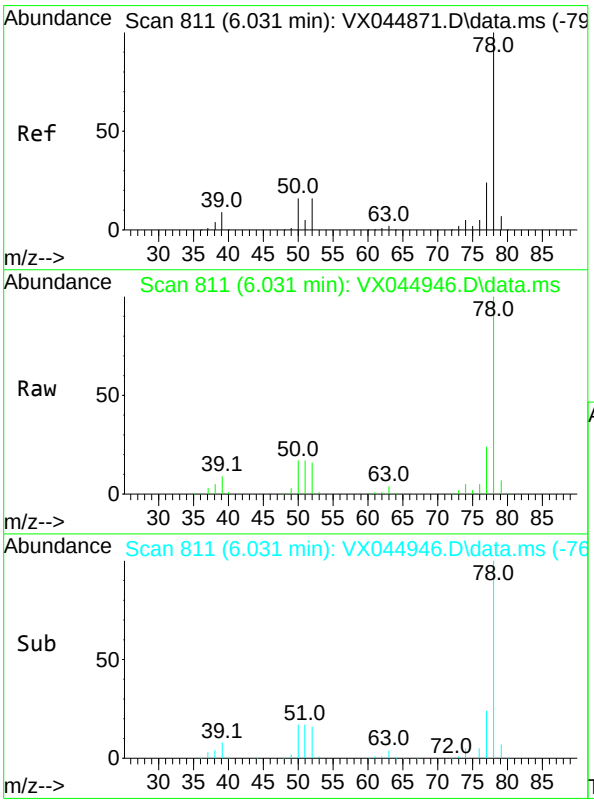
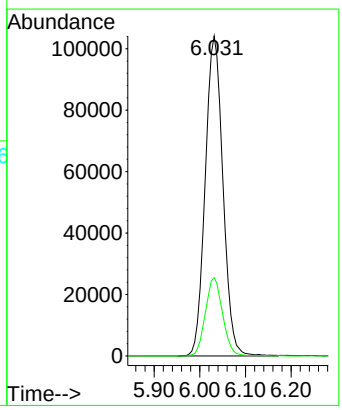
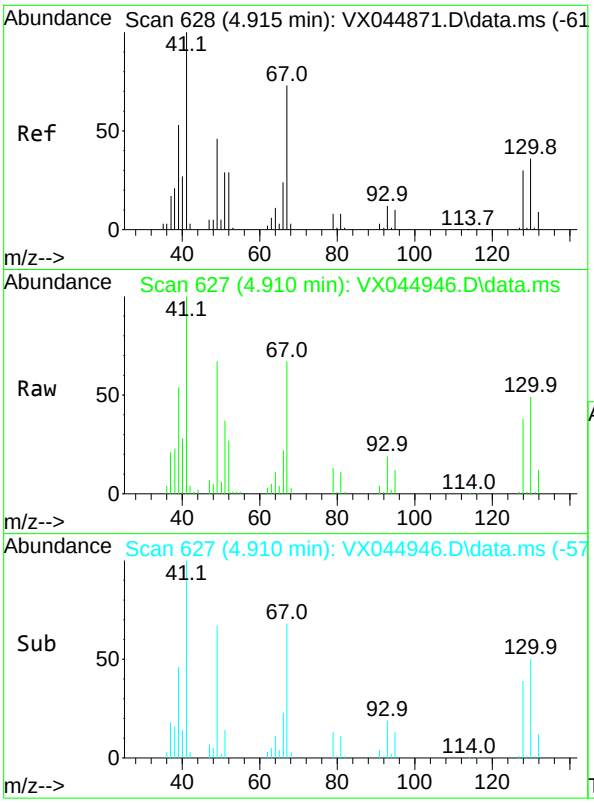


#40
Benzene
Concen: 48.106 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 78 Resp: 280015

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6

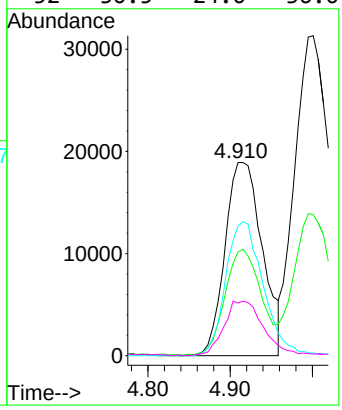




#41
Methacrylonitrile
Concen: 53.812 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 41 Resp: 5972

Ion	Ratio	Lower	Upper
41	100		
39	51.8	43.1	64.7
67	70.0	57.0	85.6
52	30.5	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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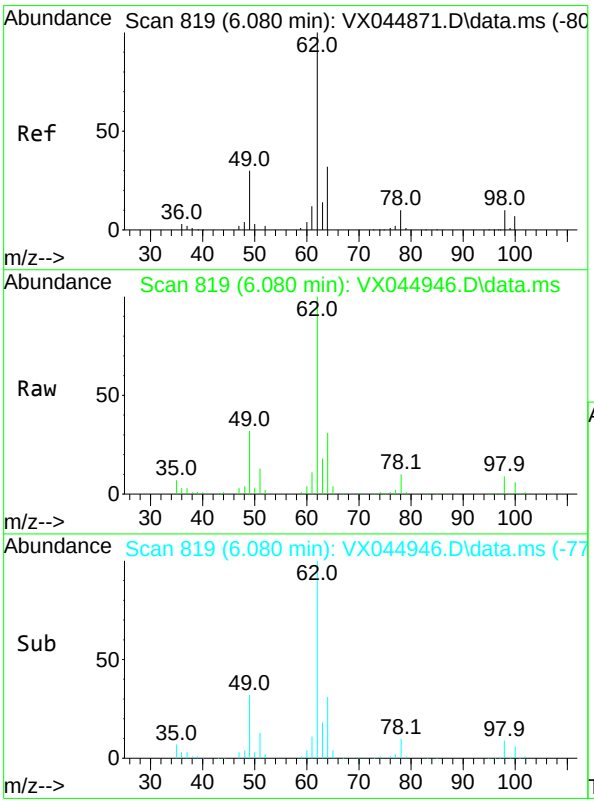
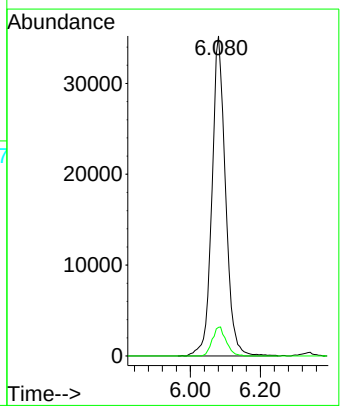
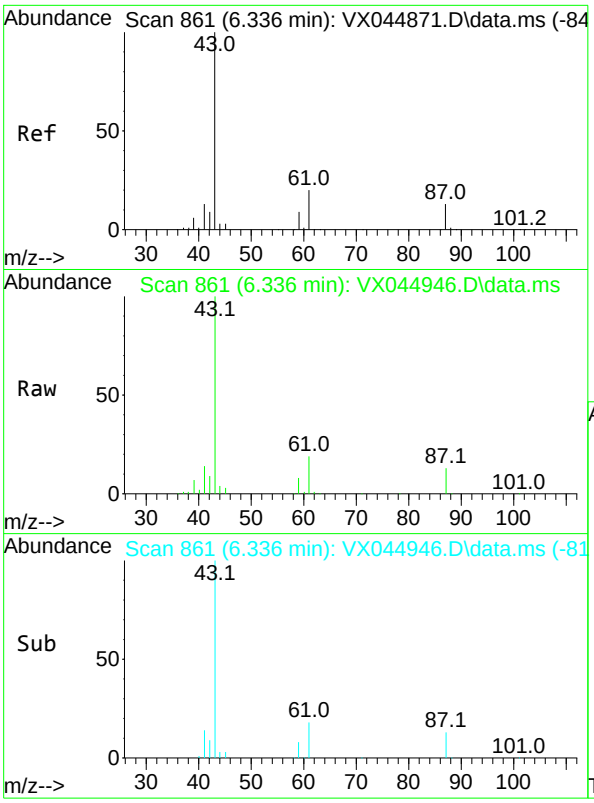


#42
1,2-Dichloroethane
Concen: 51.167 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 62 Resp: 94923

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.4

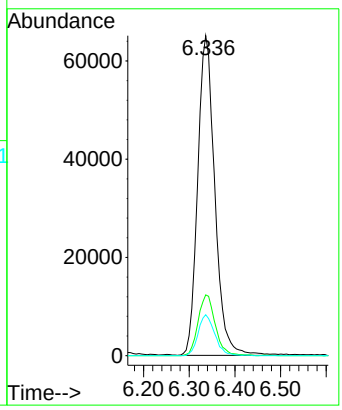




#43
Isopropyl Acetate
Concen: 50.605 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 16943

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.8	23.8
87	12.4	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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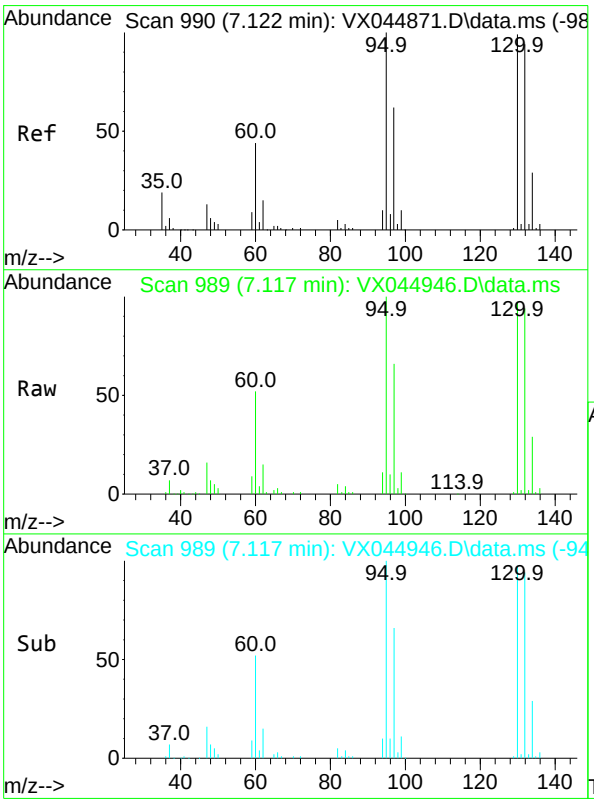
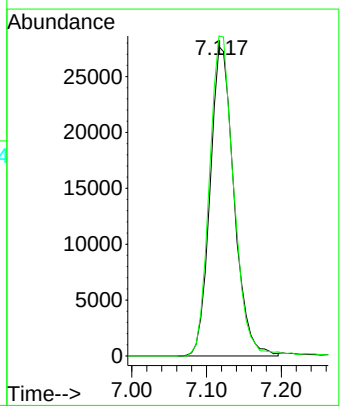
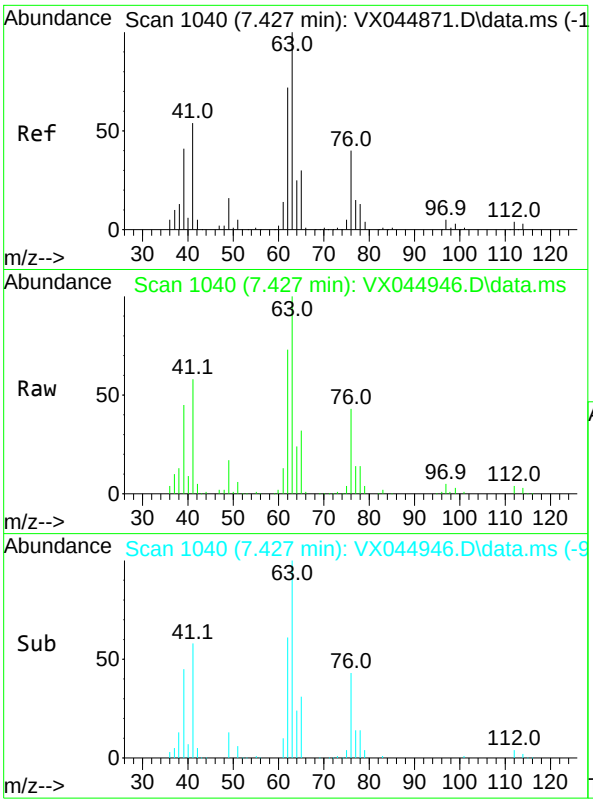


#44
Trichloroethene
Concen: 46.385 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:130 Resp: 61715

Ion	Ratio	Lower	Upper
130	100		
95	103.4	0.0	202.4

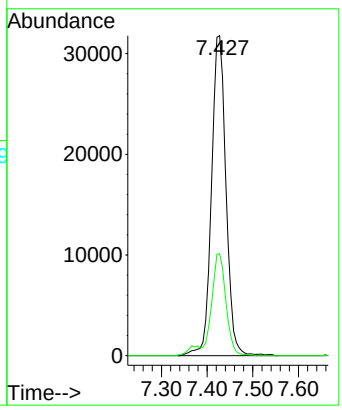




#45
1,2-Dichloropropane
Concen: 48.407 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 63 Resp: 7010

Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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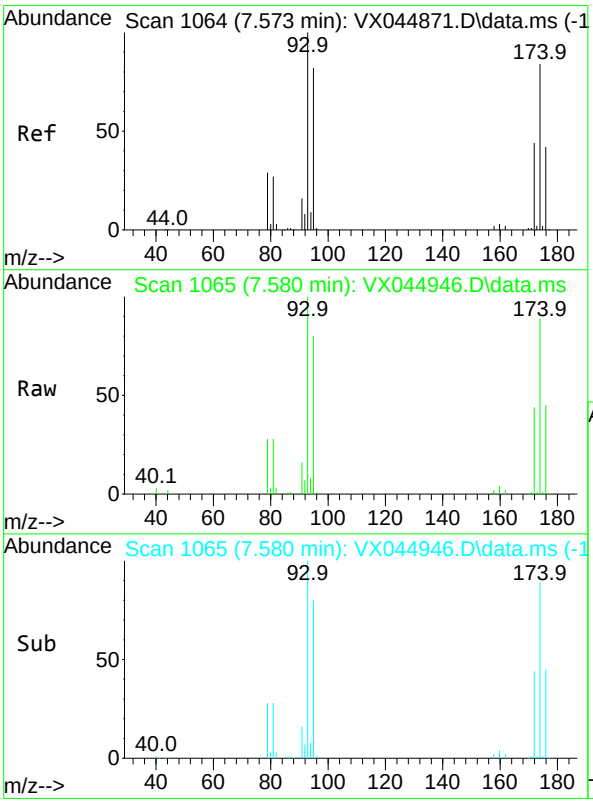
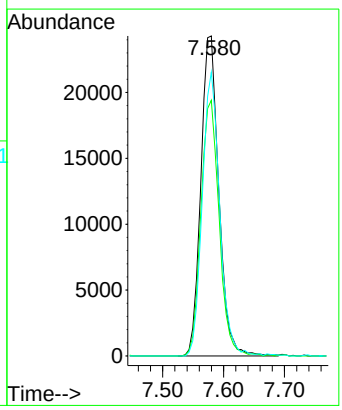
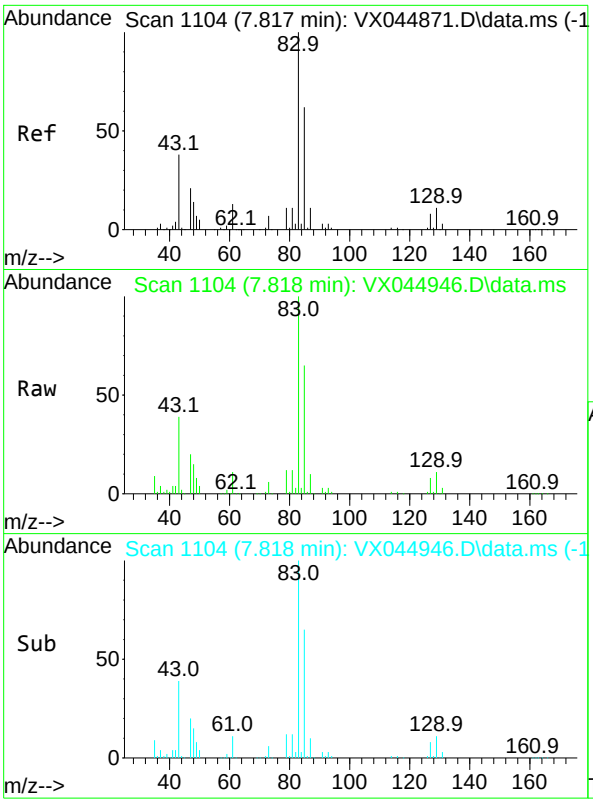


#46
Dibromomethane
Concen: 49.691 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 93 Resp: 49903

Ion	Ratio	Lower	Upper
93	100		
95	80.7	66.2	99.4
174	85.8	69.9	104.9

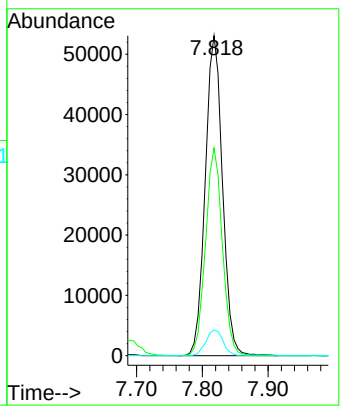




#47
Bromodichloromethane
Concen: 49.803 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 83 Resp: 9684

Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.0	75.0
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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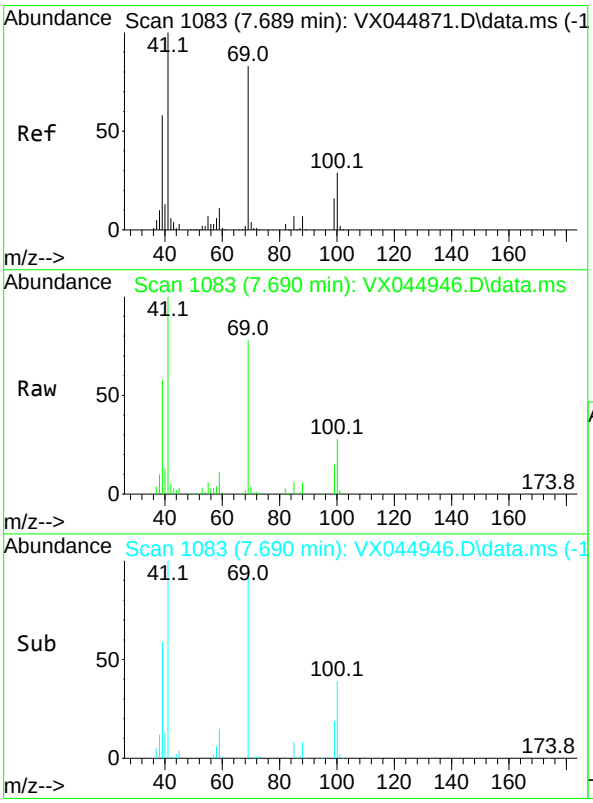
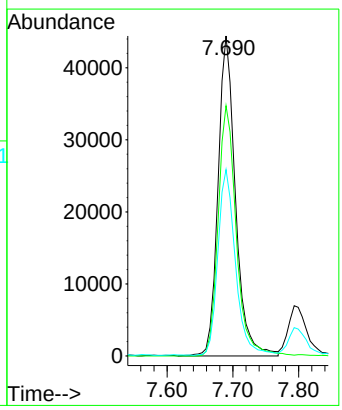
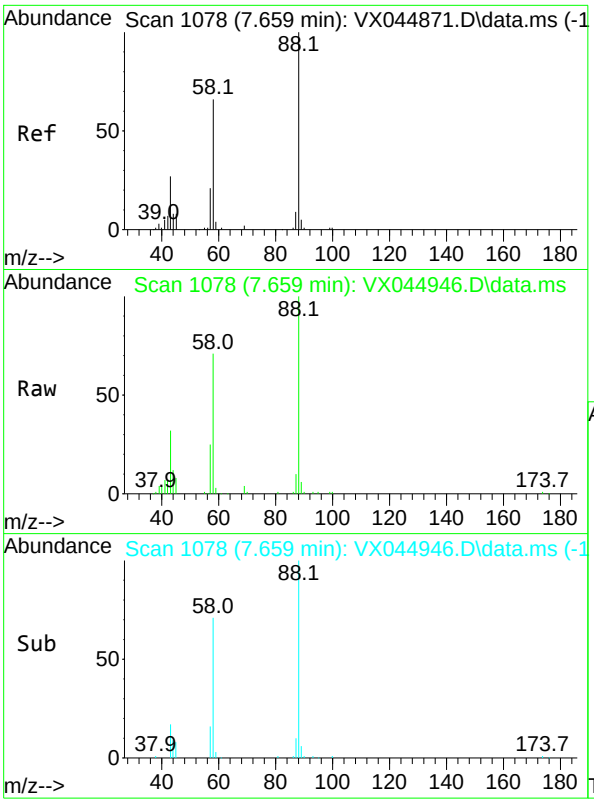


#48
Methyl methacrylate
Concen: 52.025 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 41 Resp: 82133

Ion	Ratio	Lower	Upper
41	100		
69	80.8	65.8	98.8
39	58.5	46.4	69.6

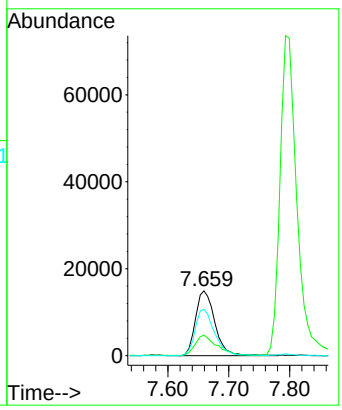




#49
1,4-Dioxane
Concen: 970.105 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 88 Resp: 3285

Ion	Ratio	Lower	Upper
88	100		
43	35.9	26.6	39.8
58	71.5	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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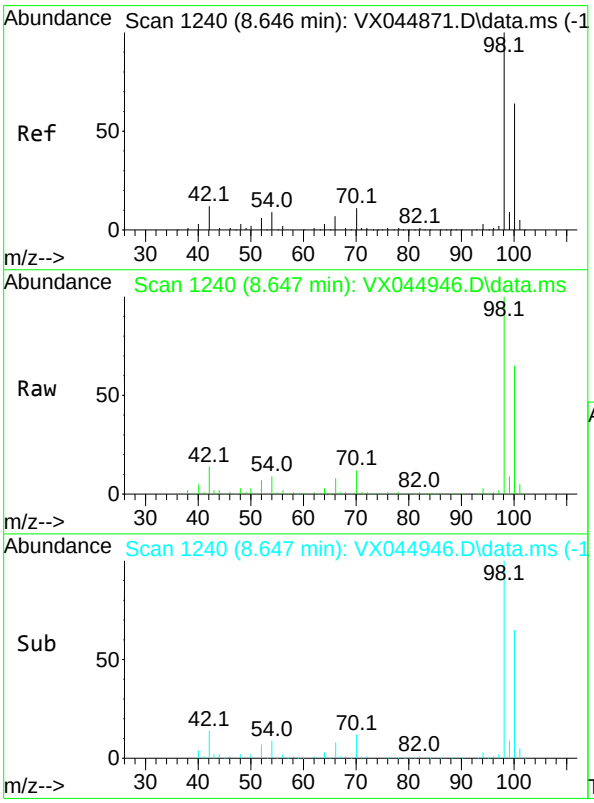
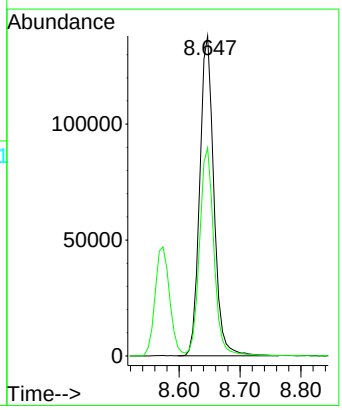
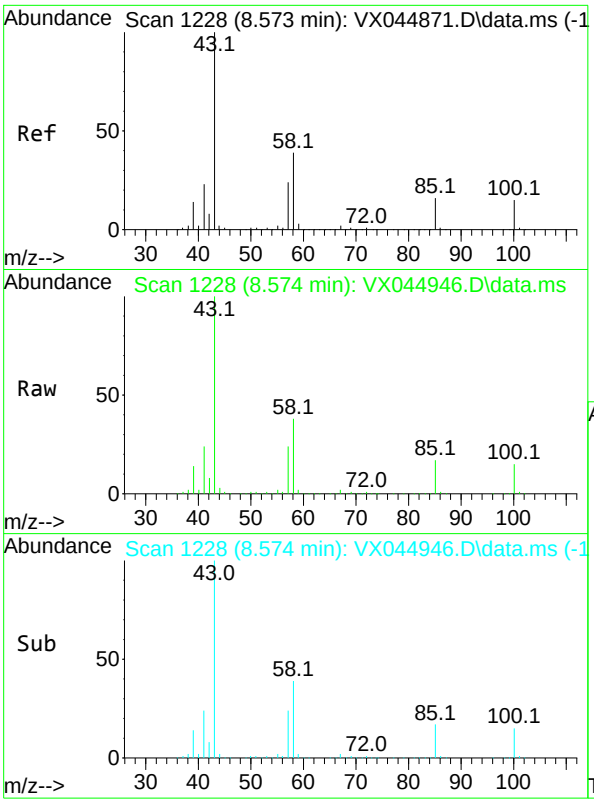


#50
Toluene-d8
Concen: 45.675 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 98 Resp: 223161

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1

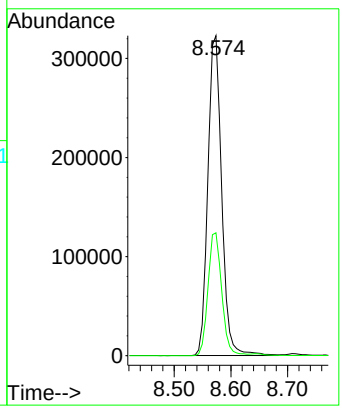




#51
4-Methyl-2-Pentanone
Concen: 269.277 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 54812

Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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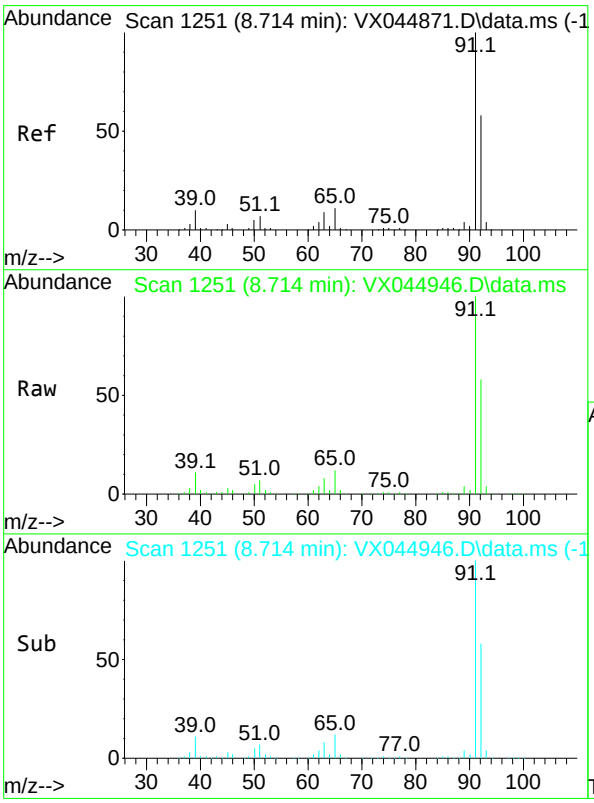
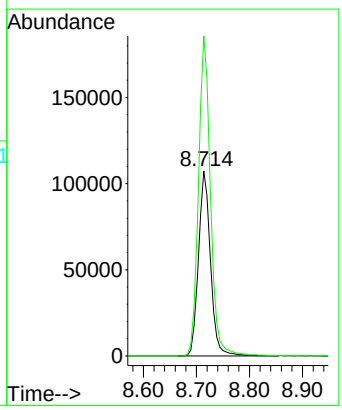
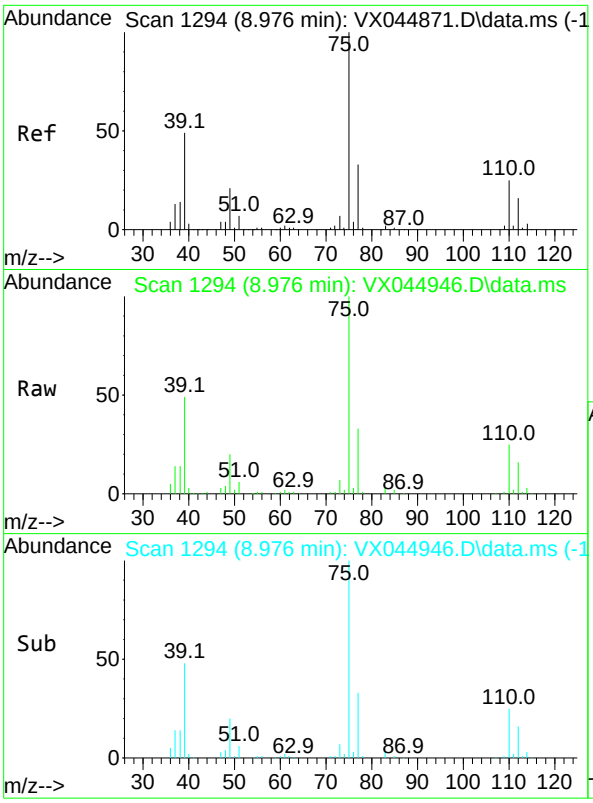


#52
Toluene
Concen: 48.775 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 92 Resp: 169085

Ion	Ratio	Lower	Upper
92	100		
91	173.1	137.4	206.2

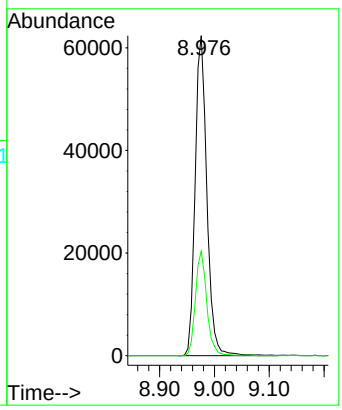




#53
t-1,3-Dichloropropene
Concen: 47.240 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 9296

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.0	39.0



Instrument :
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ClientSampleId :
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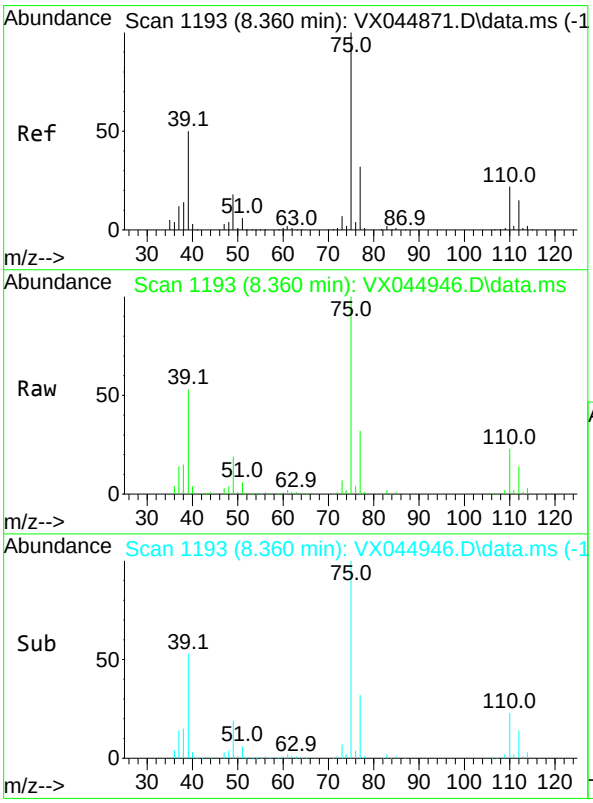
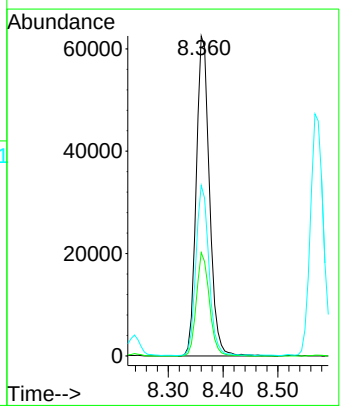
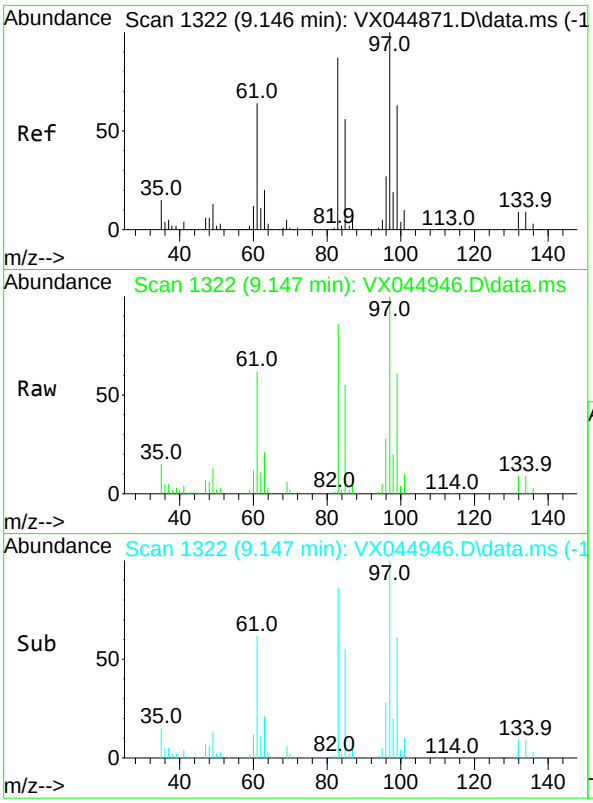


#54
cis-1,3-Dichloropropene
Concen: 47.971 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 105250

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.3	37.9
39	53.2	40.0	60.0

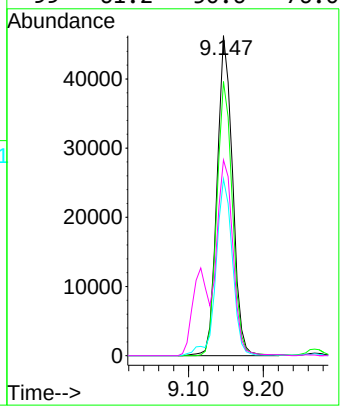




#55
1,1,2-Trichloroethane
Concen: 50.097 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 97 Resp: 6676

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.8	104.6
85	55.2	44.8	67.2
99	61.2	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
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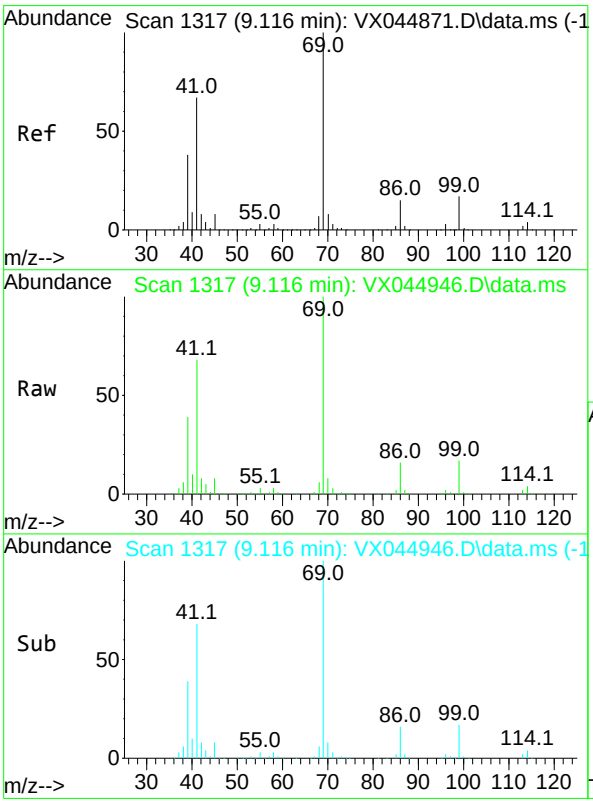
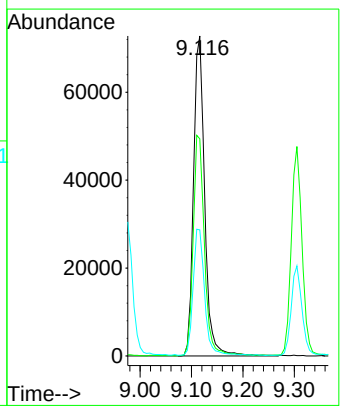
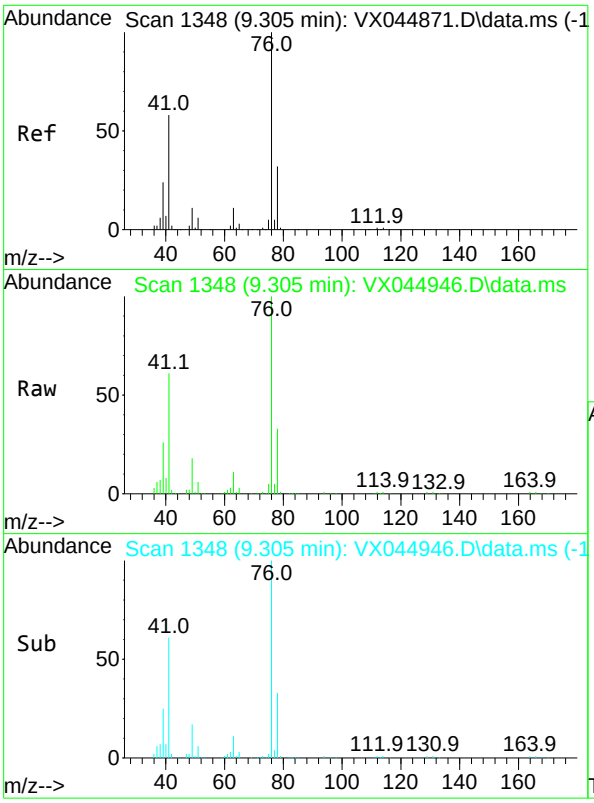


#56
Ethyl methacrylate
Concen: 51.239 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 69 Resp: 110282

Ion	Ratio	Lower	Upper
69	100		
41	70.0	55.2	82.8
39	40.5	30.8	46.2

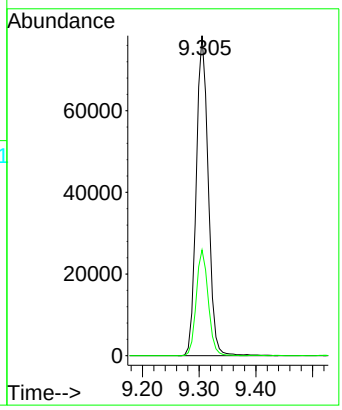




#57
1,3-Dichloropropane
Concen: 49.311 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 76 Resp: 11497

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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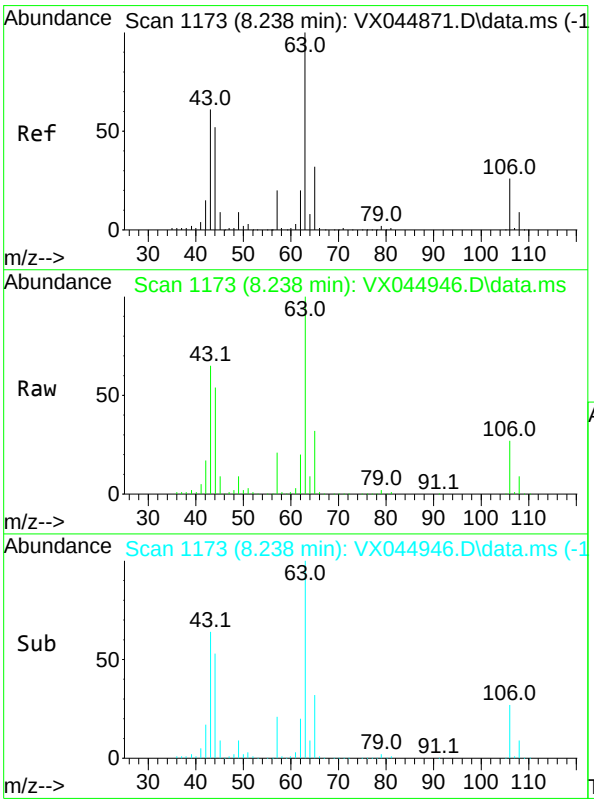
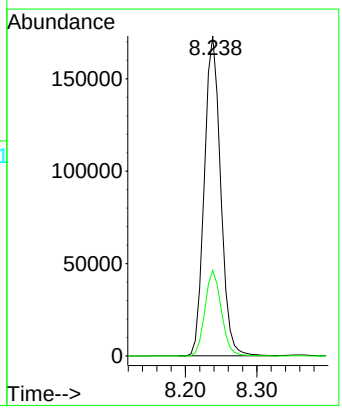
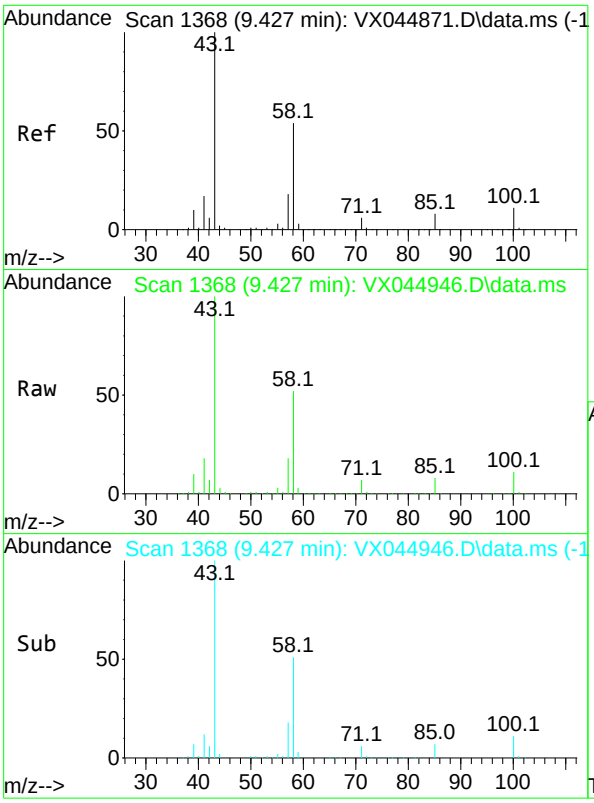


#58
2-Chloroethyl Vinyl ether
Concen: 259.716 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 63 Resp: 274468

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.3	31.9

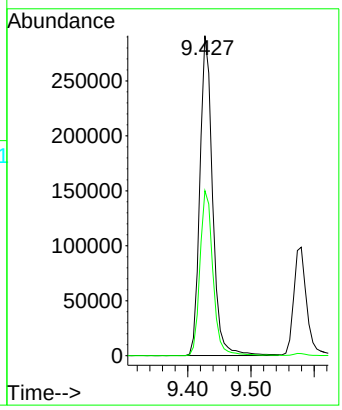




#59
2-Hexanone
Concen: 277.591 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 40712

Ion	Ratio	Lower	Upper
43	100		
58	52.9	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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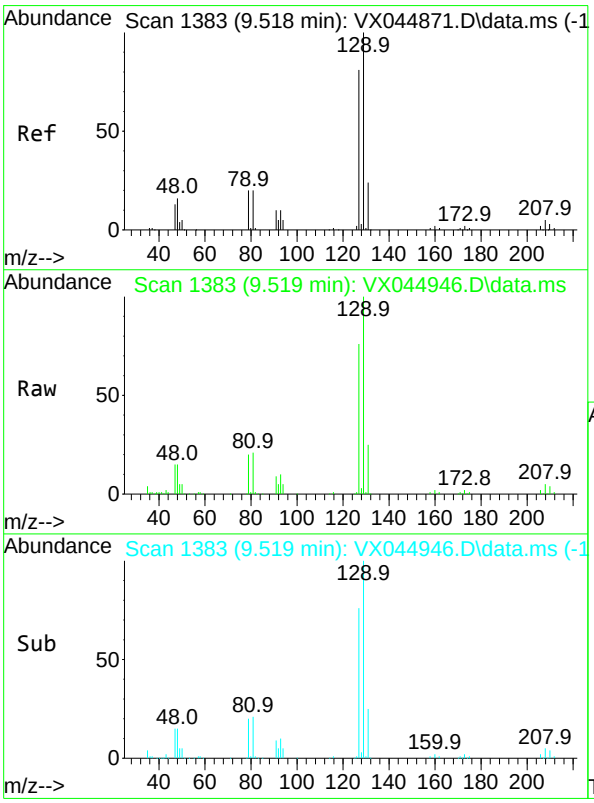
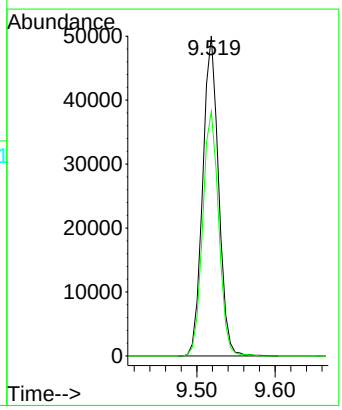
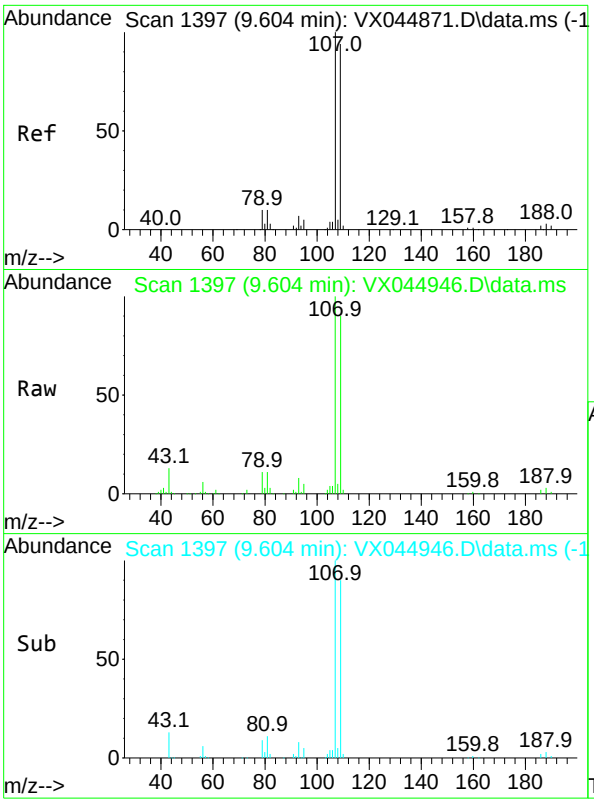


#60
Dibromochloromethane
Concen: 49.231 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:129 Resp: 70163

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3

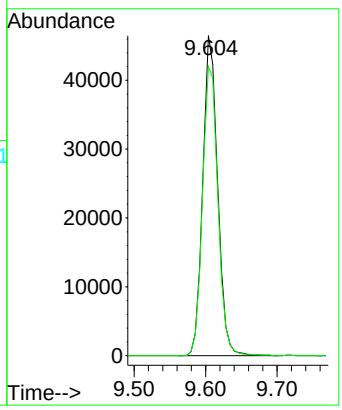




#61
1,2-Dibromoethane
Concen: 49.619 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:107 Resp: 6701

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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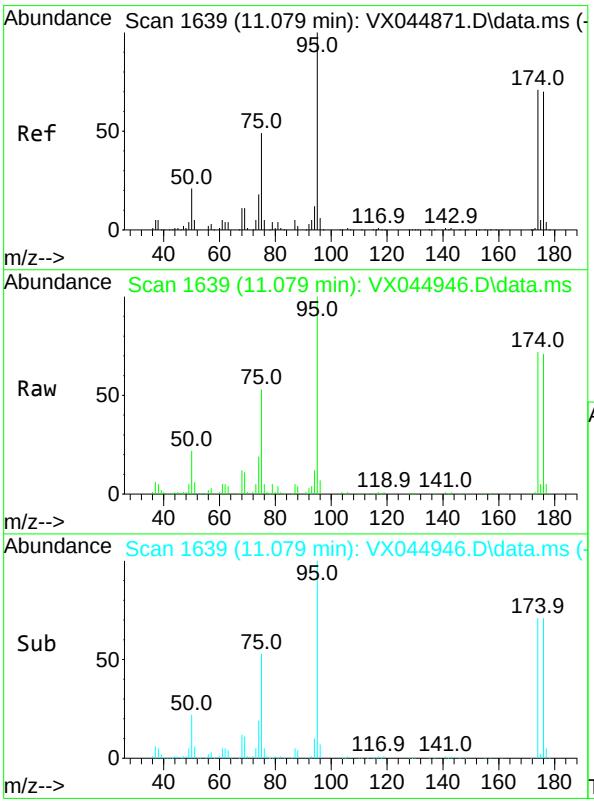
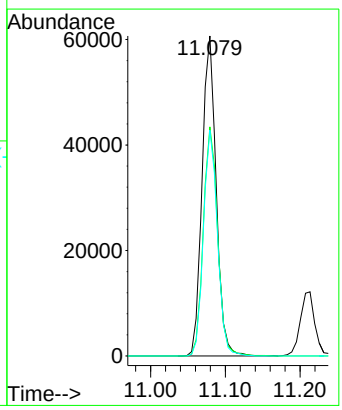
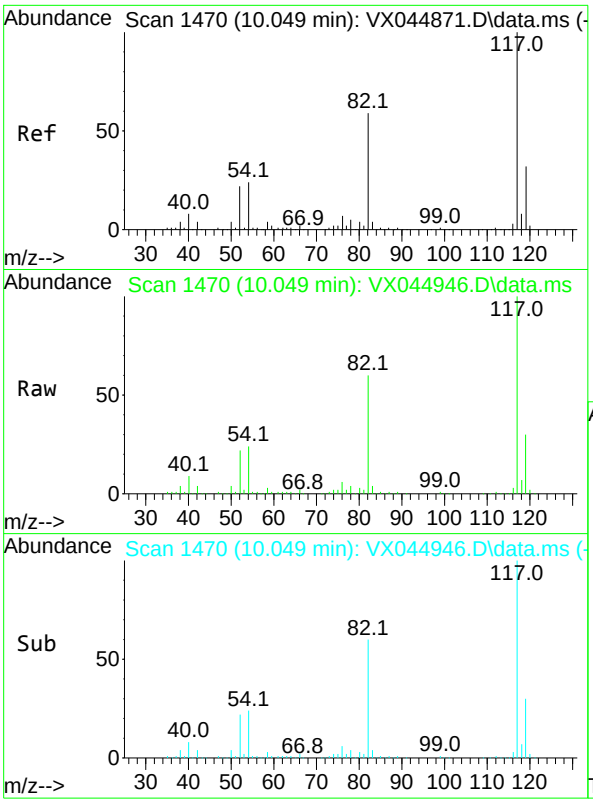


#62
4-Bromofluorobenzene
Concen: 48.224 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 95 Resp: 79430

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	142.6
176	70.0	0.0	141.6

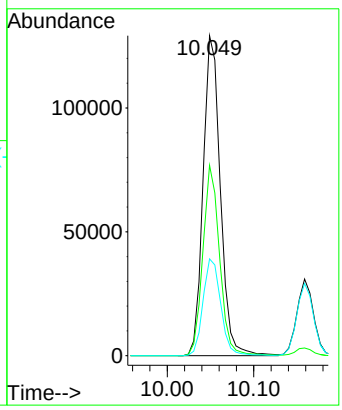




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:117 Resp: 17882

Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.5	71.3
119	30.3	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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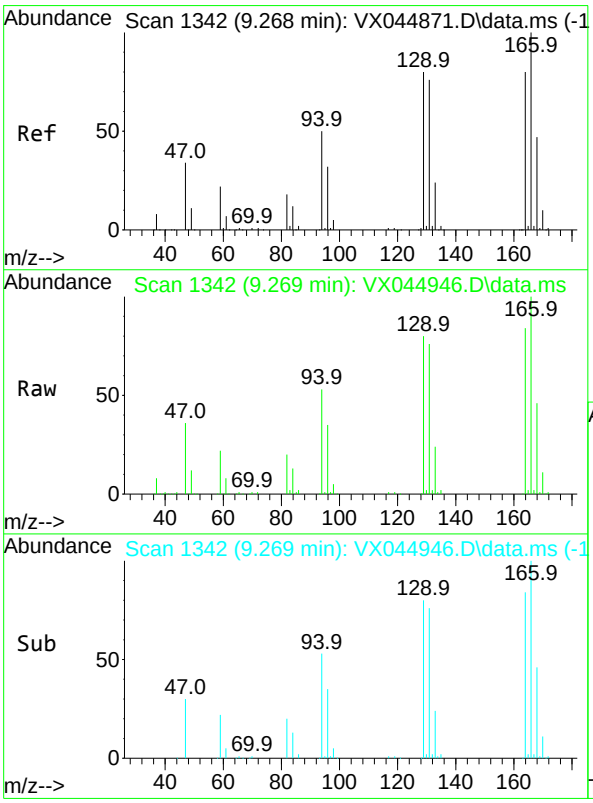
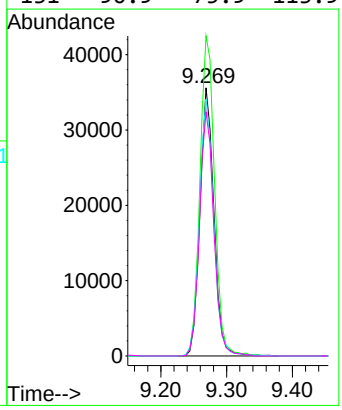
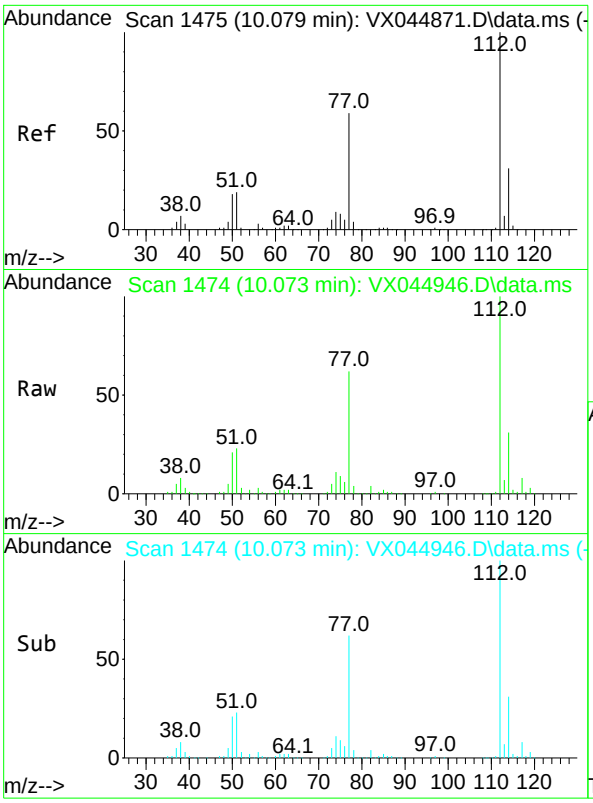


#64
Tetrachloroethene
Concen: 46.552 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:164 Resp: 52500

Ion	Ratio	Lower	Upper
164	100		
166	119.3	100.4	150.6
129	95.8	79.9	119.9
131	90.9	75.9	113.9

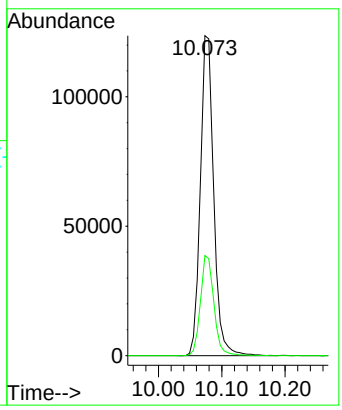




#65
Chlorobenzene
Concen: 47.447 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:112 Resp: 18224

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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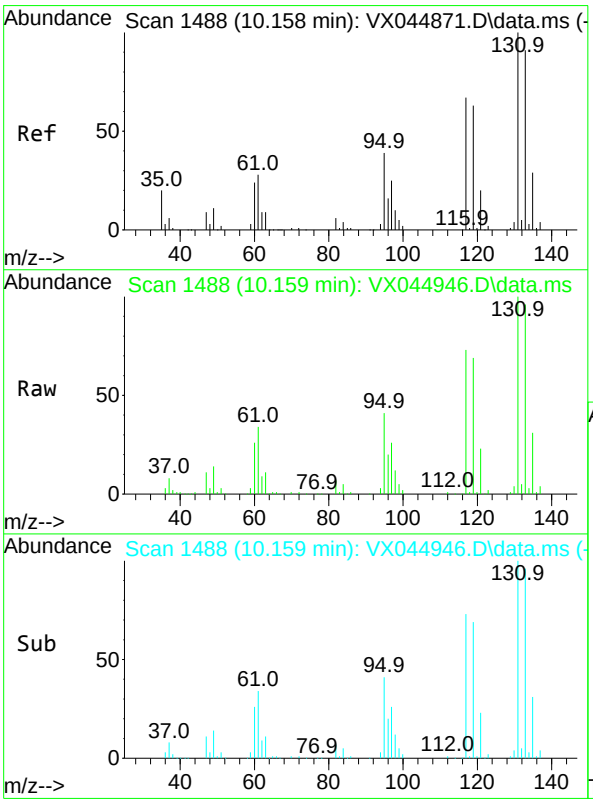
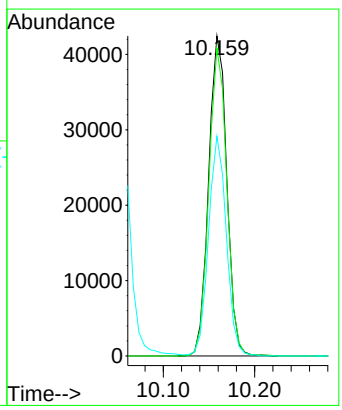
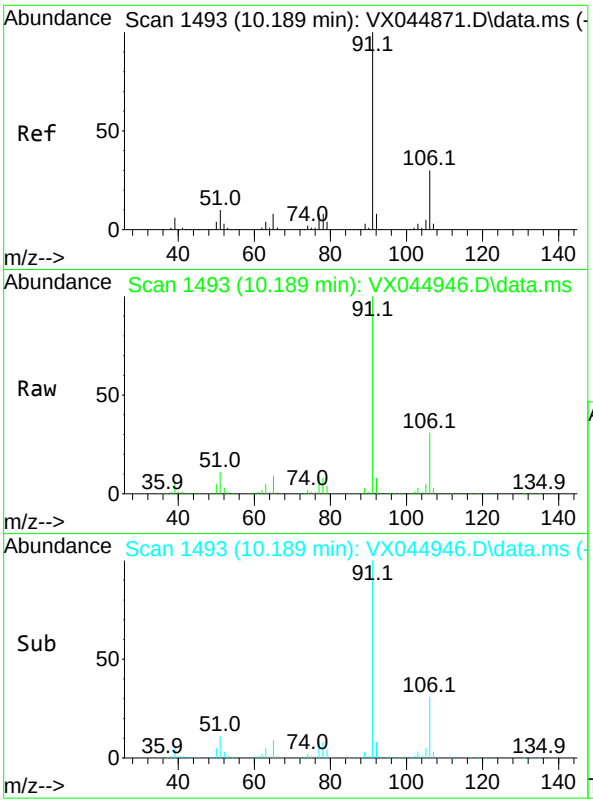


#66
1,1,1,2-Tetrachloroethane
Concen: 47.222 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:131 Resp: 58380

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.1	141.3
119	67.6	33.6	100.6

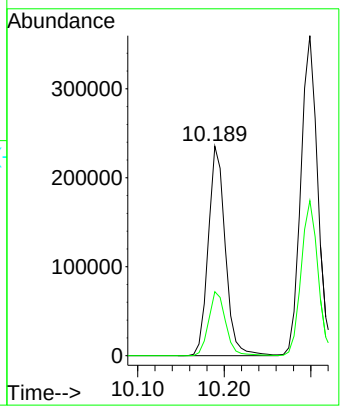




#67
Ethyl Benzene
Concen: 47.447 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 91 Resp: 32160

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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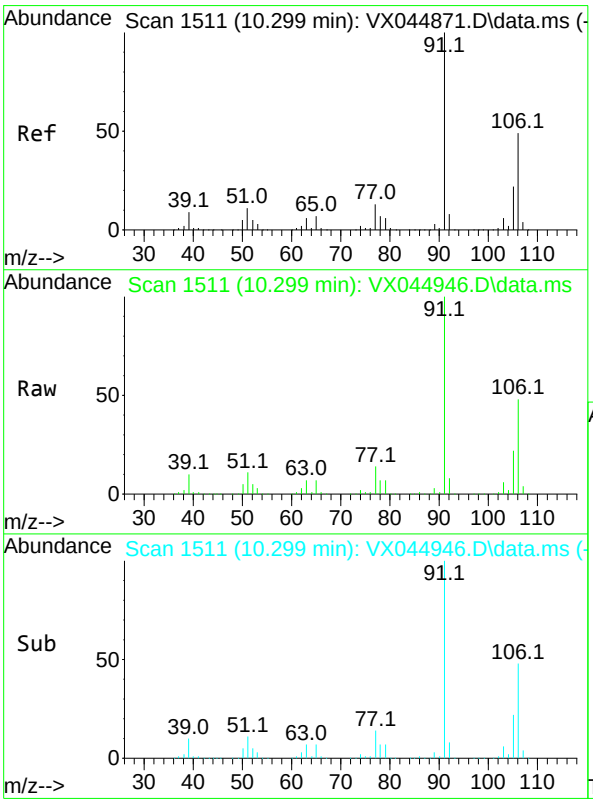
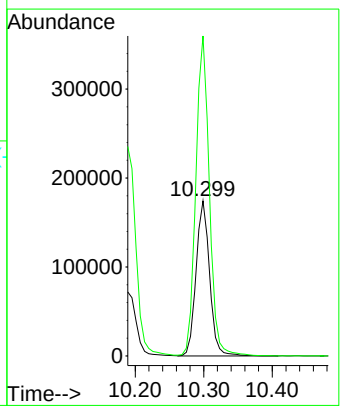
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

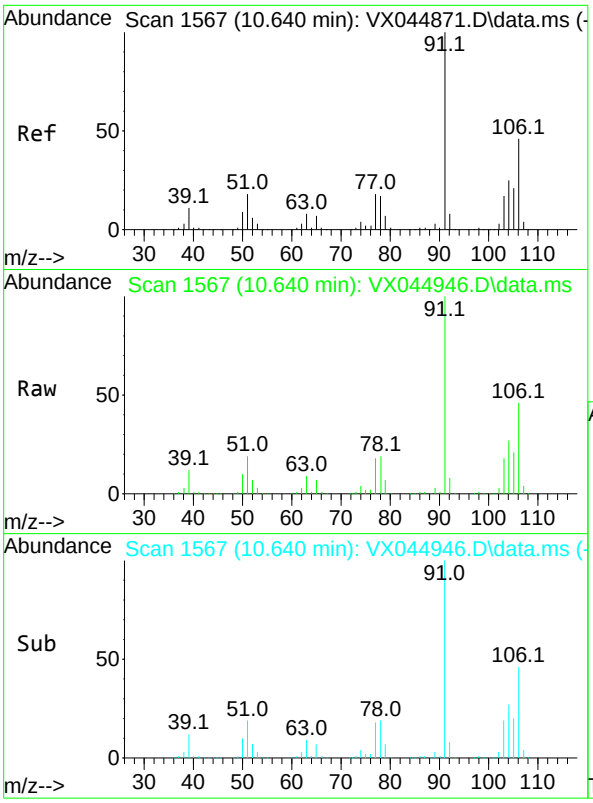


#68
m/p-Xylenes
Concen: 95.958 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:106 Resp: 239927

Ion	Ratio	Lower	Upper
106	100		
91	206.3	164.3	246.5

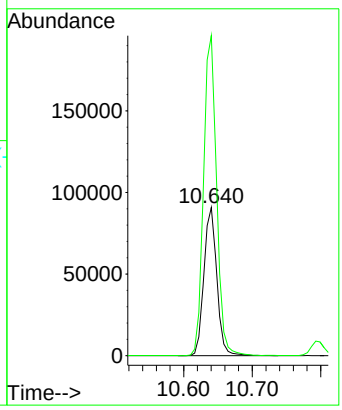




#69
o-Xylene
Concen: 47.505 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:106 Resp: 11918

Ion	Ratio	Lower	Upper
106	100		
91	217.8	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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Reviewed By :John Carlone 02/14/2025
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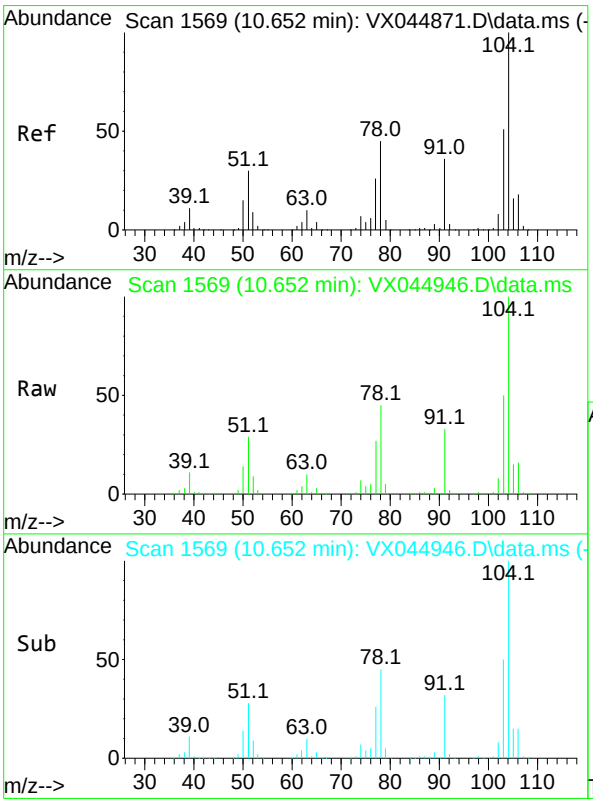
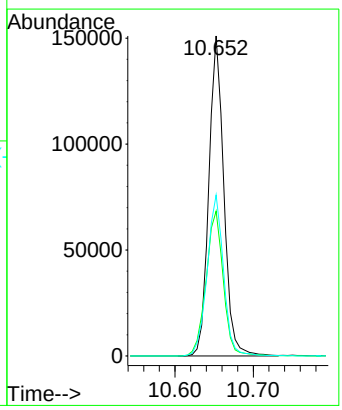
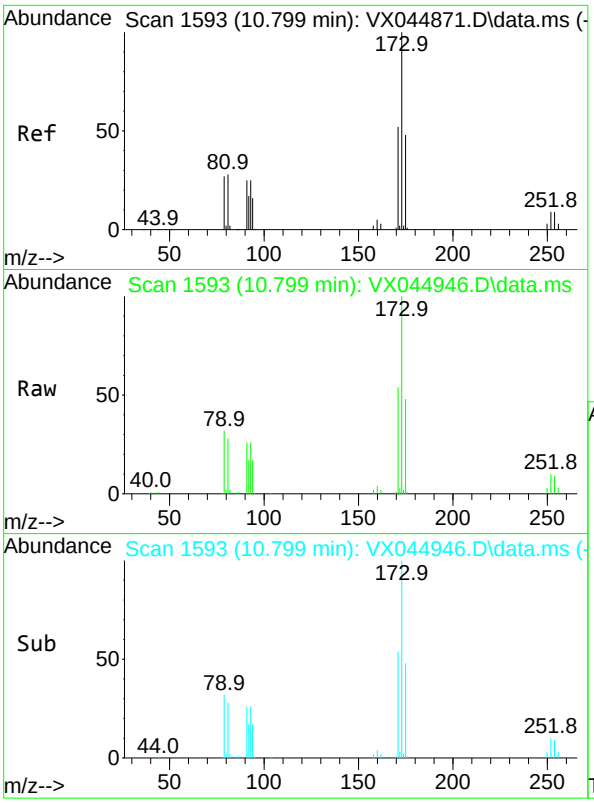


#70
Styrene
Concen: 49.640 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:104 Resp: 200646

Ion	Ratio	Lower	Upper
104	100		
78	52.0	40.5	60.7
103	55.2	43.6	65.4

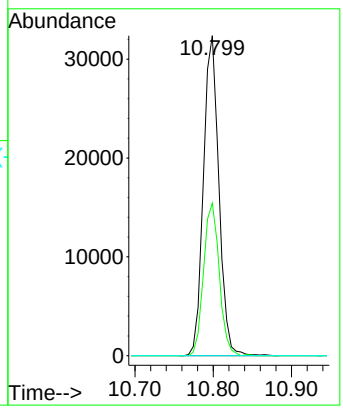




#71
Bromoform
Concen: 48.025 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:173 Resp: 4431

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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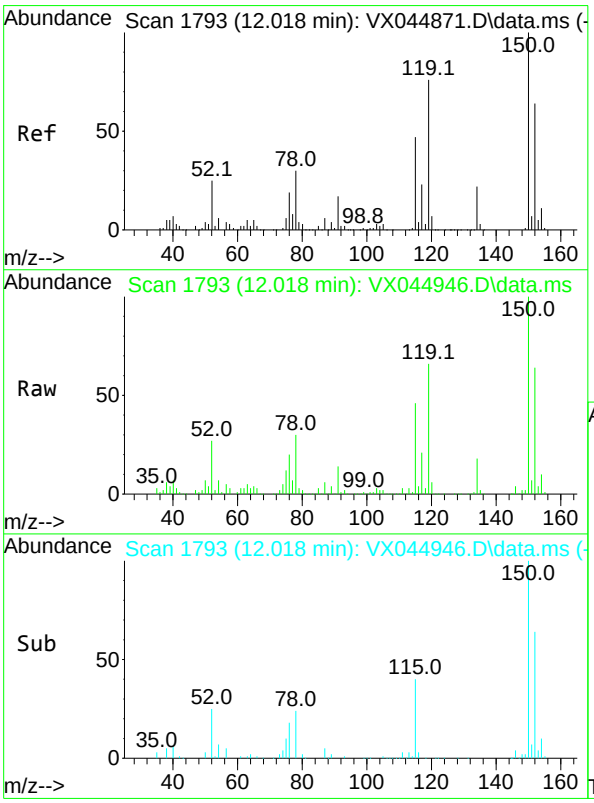
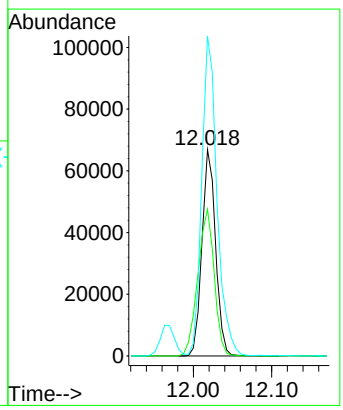
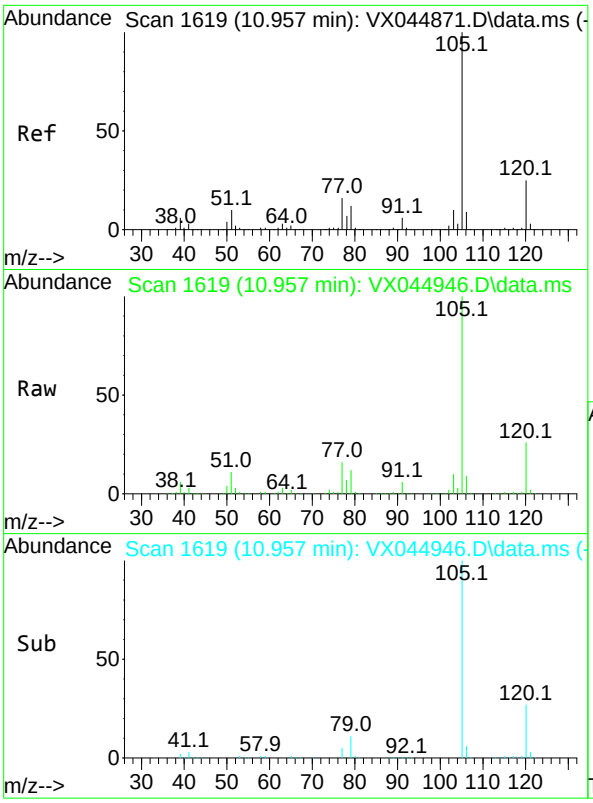


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:152 Resp: 80774

Ion	Ratio	Lower	Upper
152	100		
115	85.4	43.4	130.1
150	172.9	0.0	350.4





#73
Isopropylbenzene
Concen: 47.243 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:105 Resp: 30726

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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Reviewed By :John Carlone 02/14/2025
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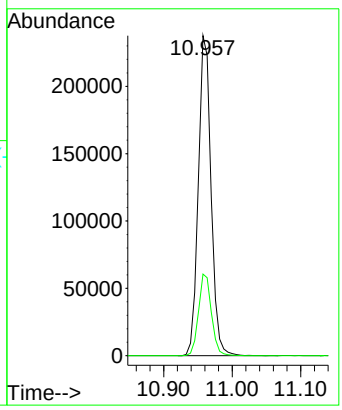
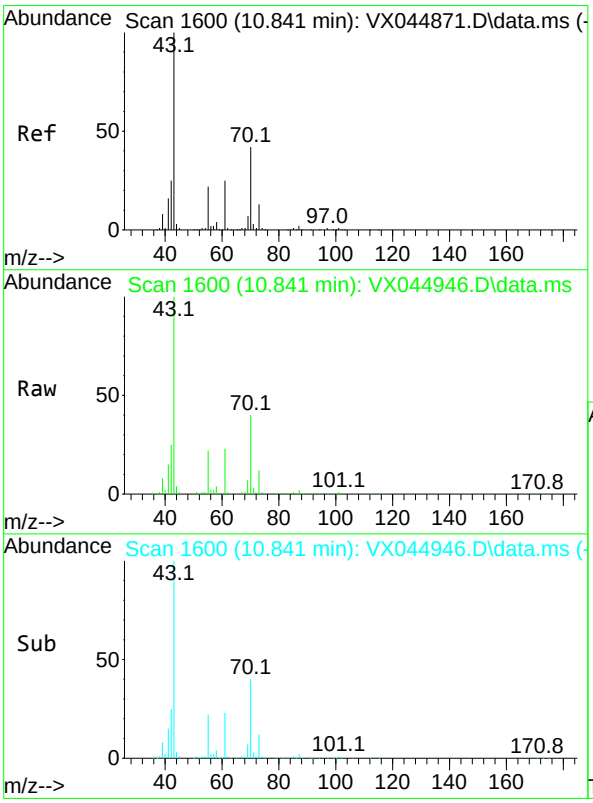
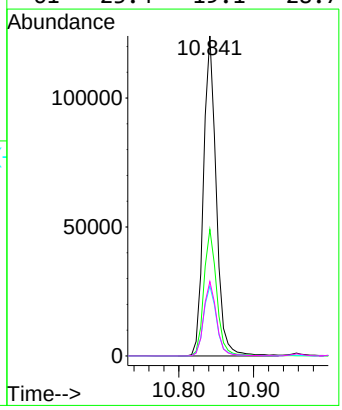


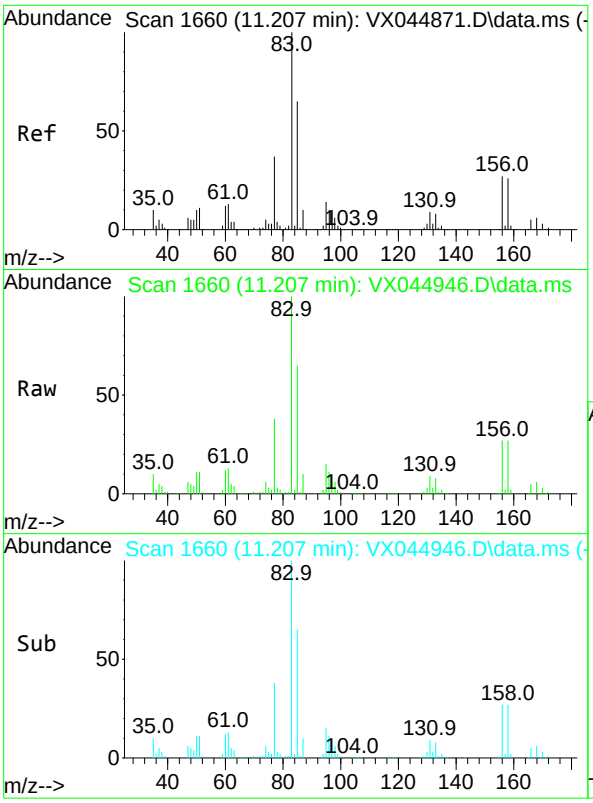


#74
N-amyl acetate
Concen: 49.788 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 146530

Ion	Ratio	Lower	Upper
43	100		
70	39.9	33.7	50.5
55	22.6	18.6	27.8
61	23.4	19.1	28.7

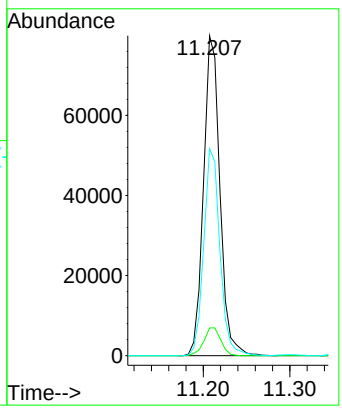




#75
1,1,2,2-Tetrachloroethane
Concen: 46.942 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 83 Resp: 10491

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	64.0	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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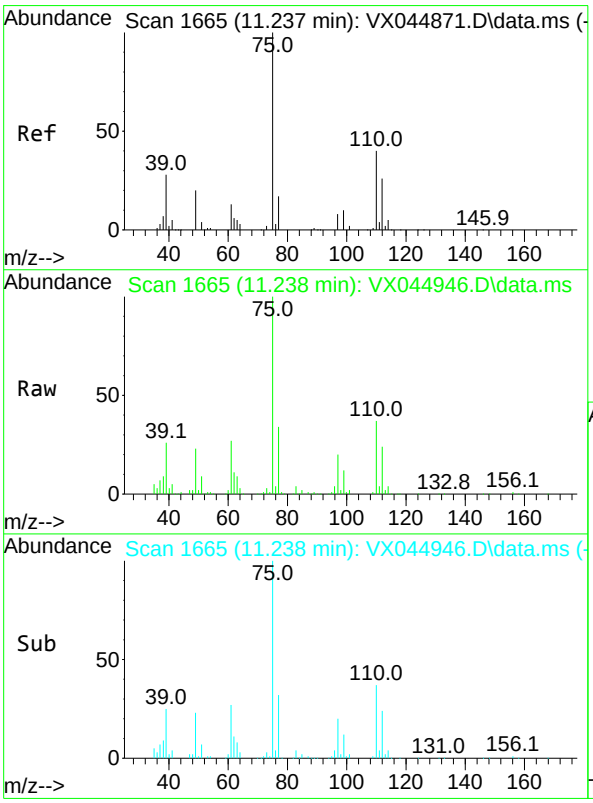
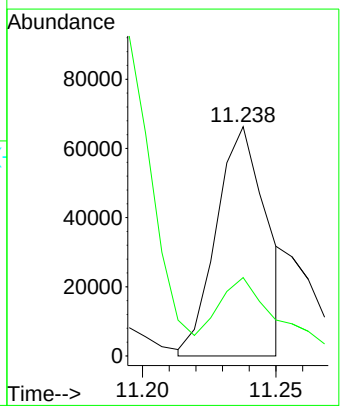
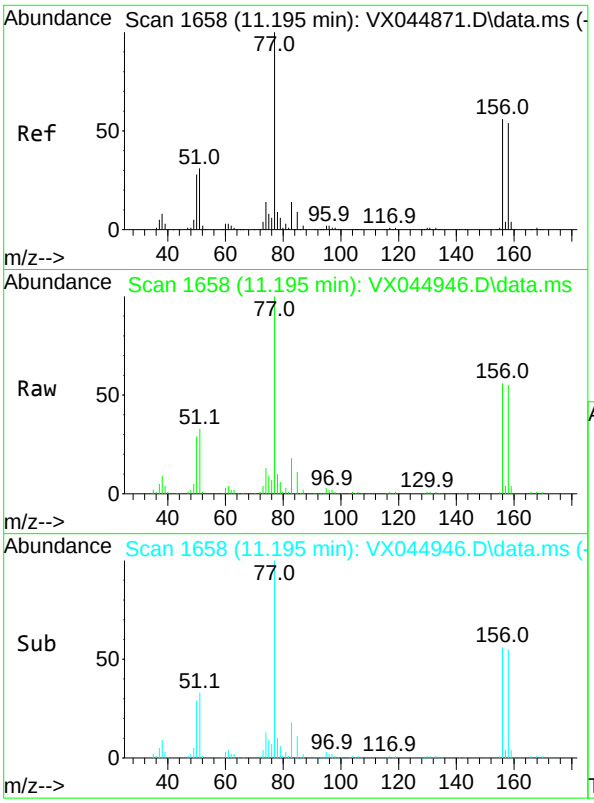


#76
1,2,3-Trichloropropane
Concen: 48.185 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 86294

Ion	Ratio	Lower	Upper
75	100		
77	42.2	21.9	65.7

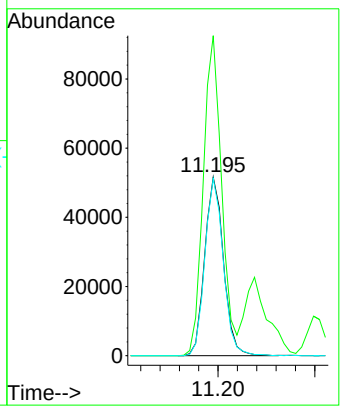




#77
Bromobenzene
Concen: 47.377 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:156 Resp: 6985

Ion	Ratio	Lower	Upper
156	100		
77	174.7	88.4	265.3
158	97.3	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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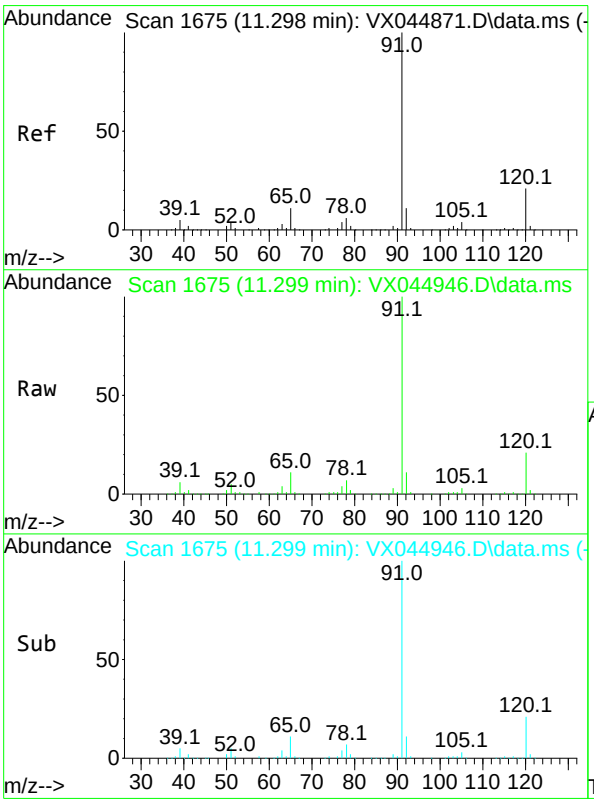
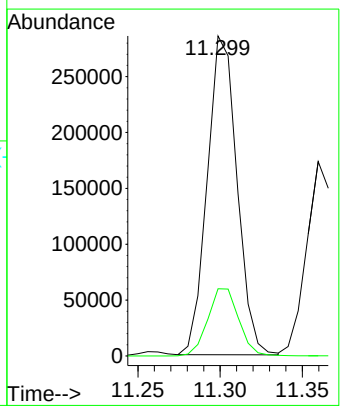
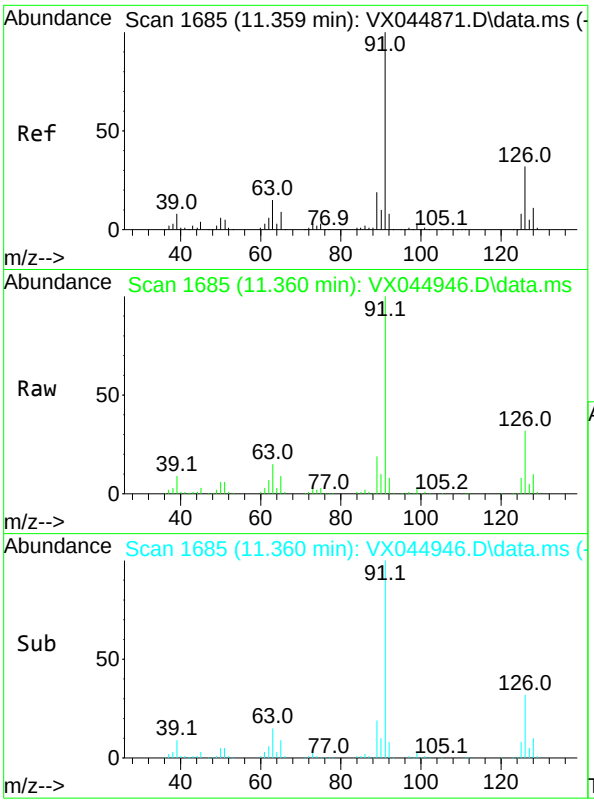


#78
n-propylbenzene
Concen: 47.881 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 91 Resp: 359442

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3





#79
2-Chlorotoluene
Concen: 46.378 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 91 Resp: 21397

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.2	48.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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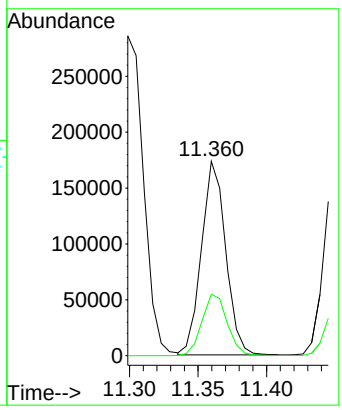
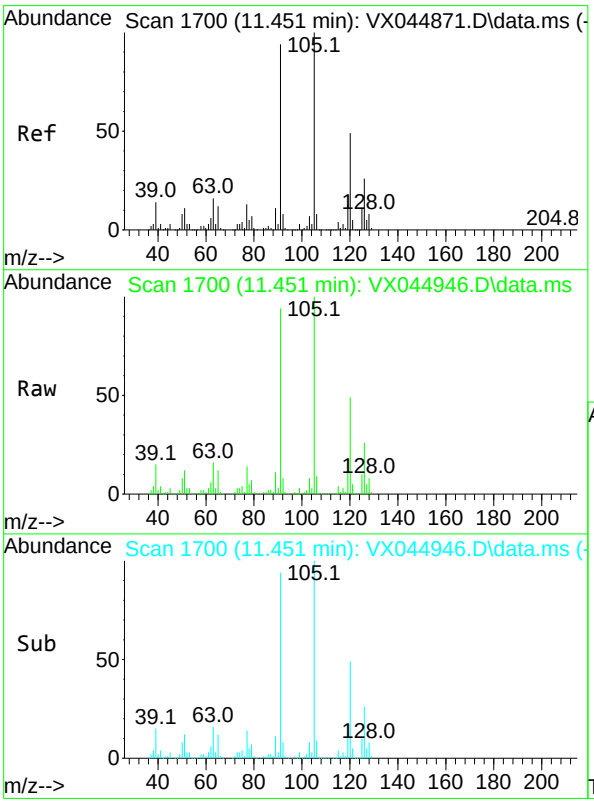
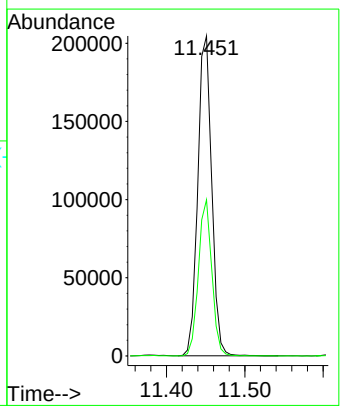


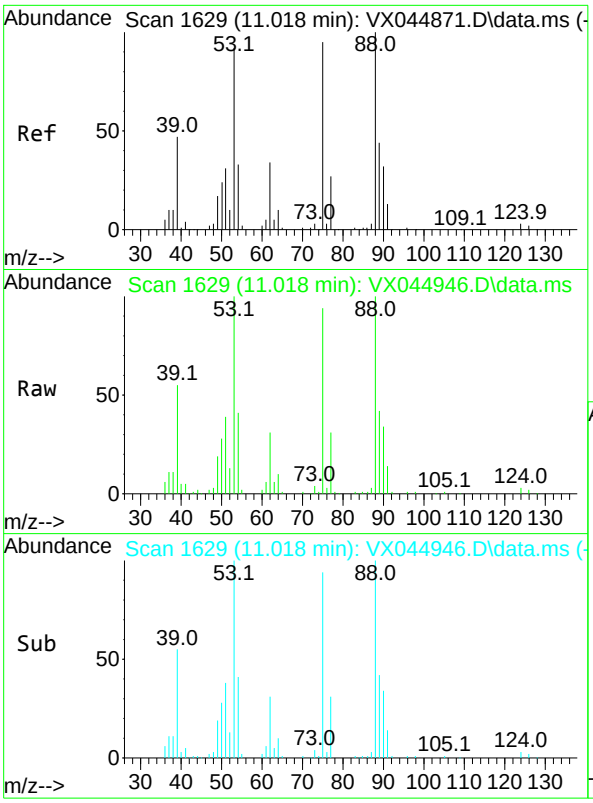


#80
1,3,5-Trimethylbenzene
Concen: 47.801 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:105 Resp: 252288

Ion	Ratio	Lower	Upper
105	100		
120	47.3	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 42.406 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 2952

Ion	Ratio	Lower	Upper
75	100		
53	109.9	78.0	117.0
89	45.4	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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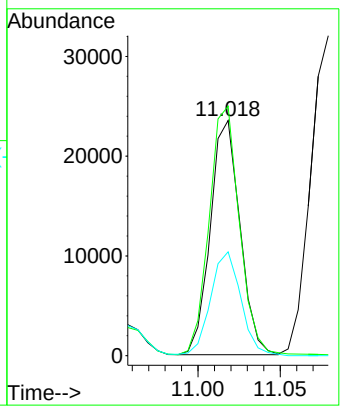
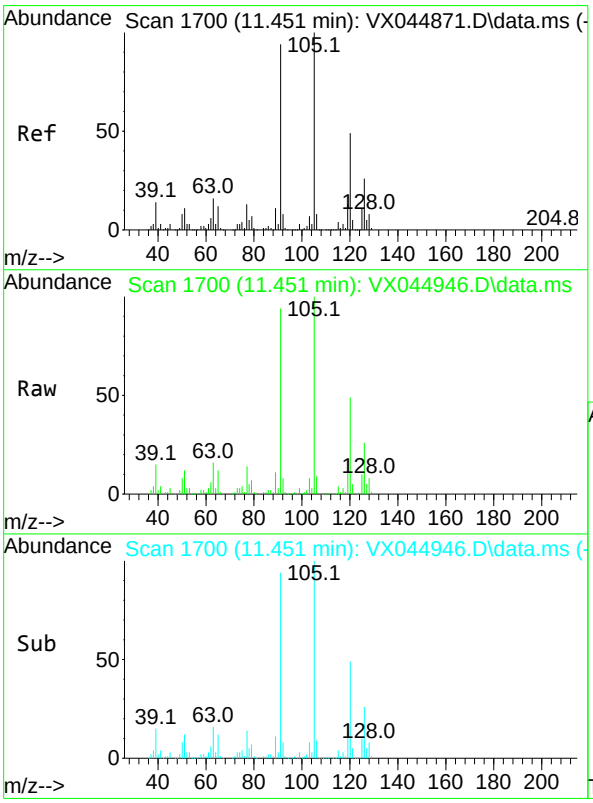
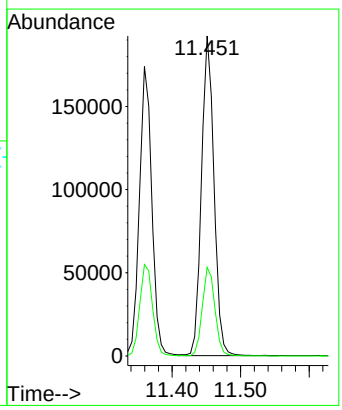


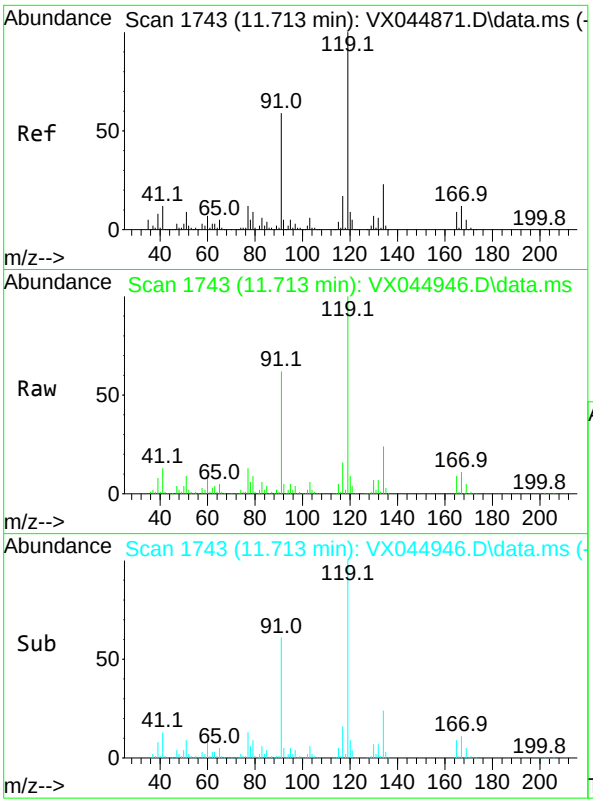


#82
4-Chlorotoluene
Concen: 47.958 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 91 Resp: 244793

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.2	42.6

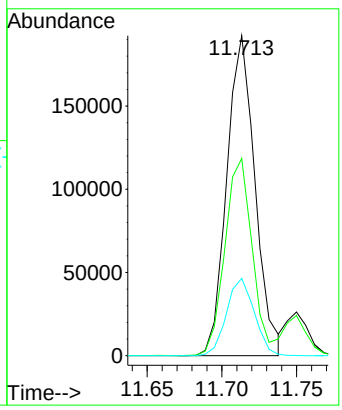




#83
tert-Butylbenzene
Concen: 47.391 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:119 Resp: 25303

Ion	Ratio	Lower	Upper
119	100		
91	59.1	29.1	87.4
134	23.7	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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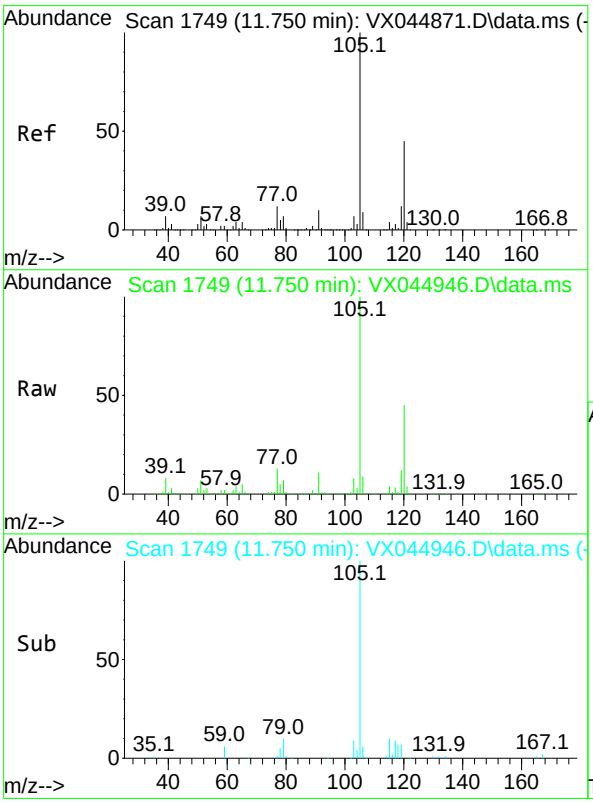
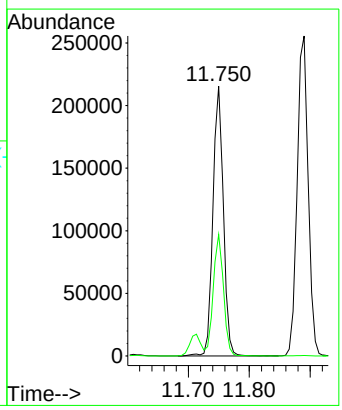
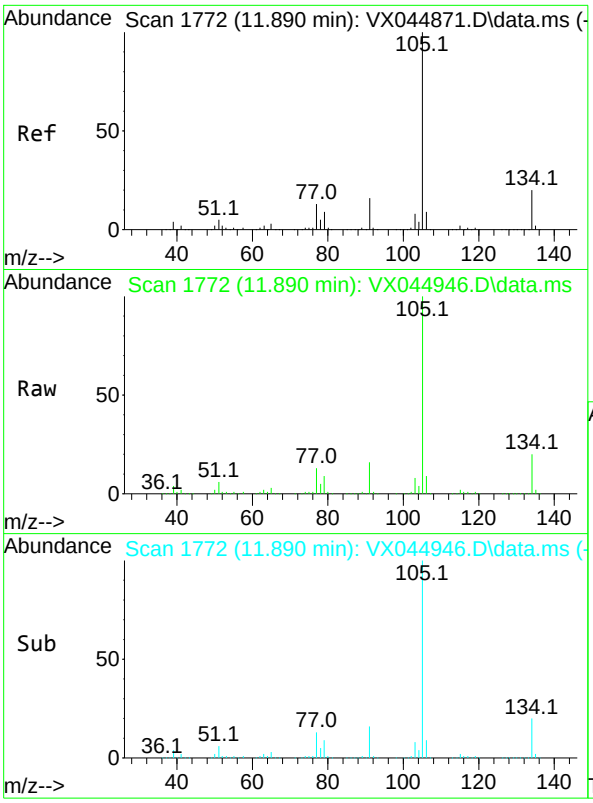


#84
1,2,4-Trimethylbenzene
Concen: 49.150 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:105 Resp: 256030

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.0

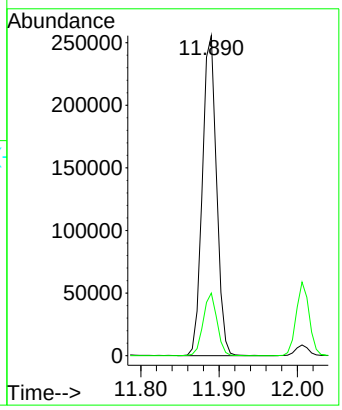




#85
sec-Butylbenzene
Concen: 48.523 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:105 Resp: 32081

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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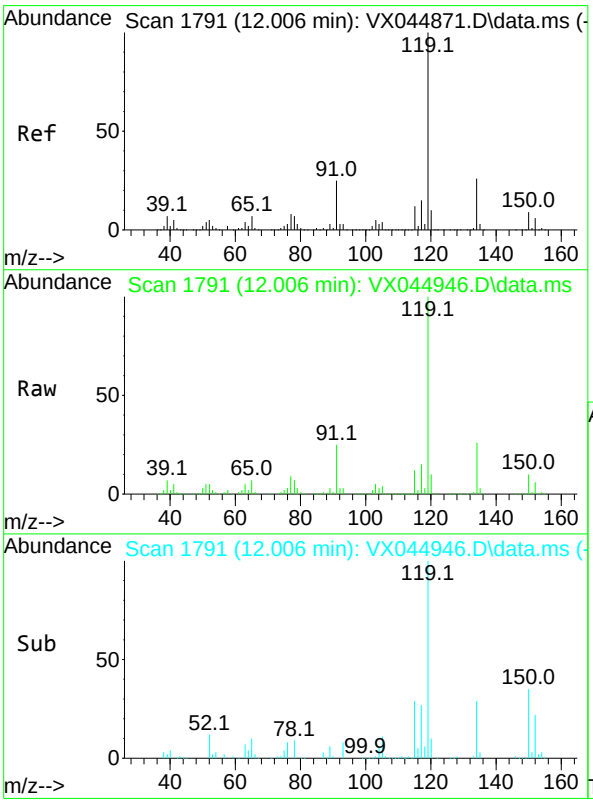
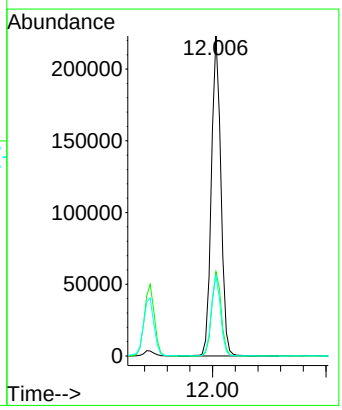
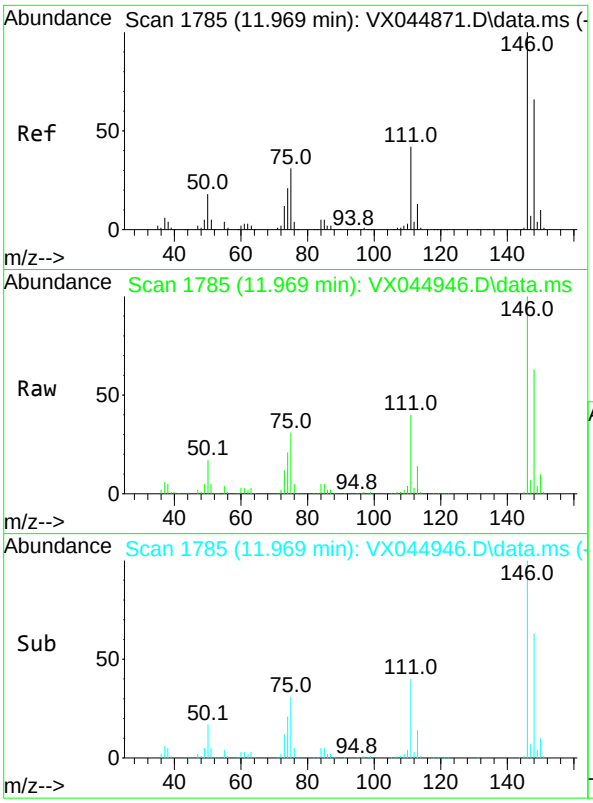


#86
p-Isopropyltoluene
Concen: 48.701 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:119 Resp: 258941

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.0	38.9
91	24.6	12.1	36.3

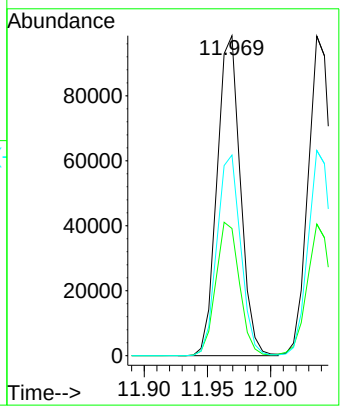




#87
1,3-Dichlorobenzene
Concen: 46.587 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:146 Resp: 12632

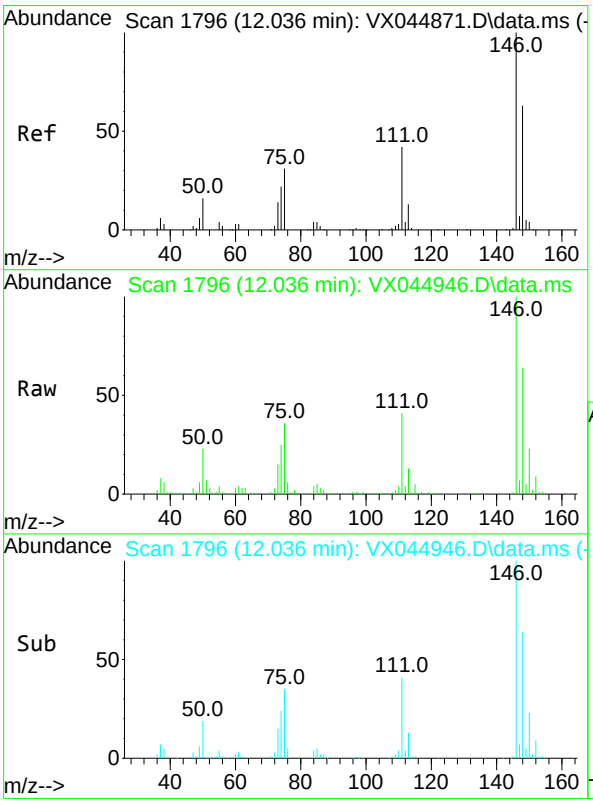
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.2	63.6
148	63.8	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

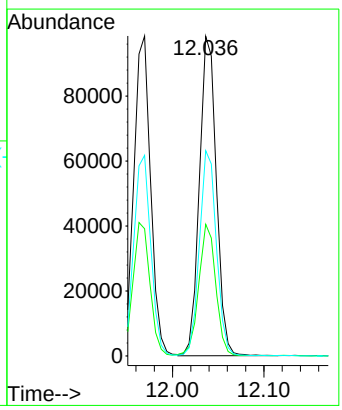
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

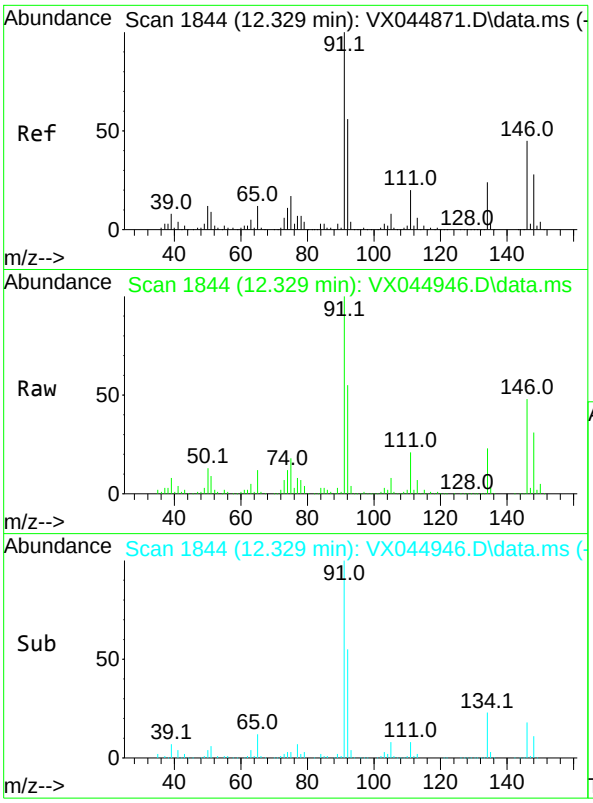


#88
1,4-Dichlorobenzene
Concen: 46.128 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:146 Resp: 126465

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.3
148	64.4	32.0	96.0





#89
n-Butylbenzene
Concen: 49.233 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

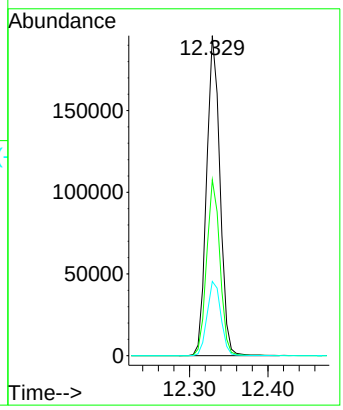
Tgt Ion: 91 Resp: 23158

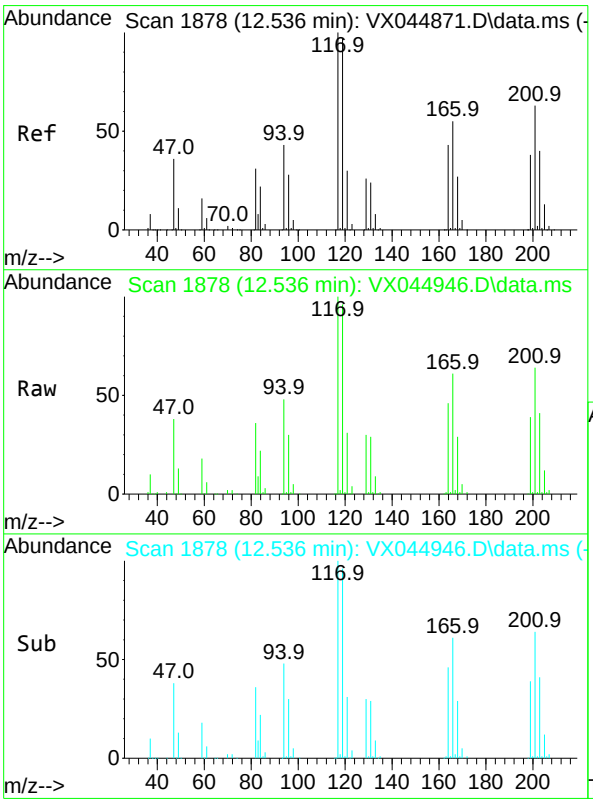
Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.2	81.6
134	24.0	12.1	36.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

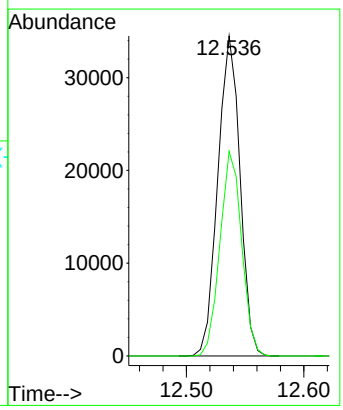


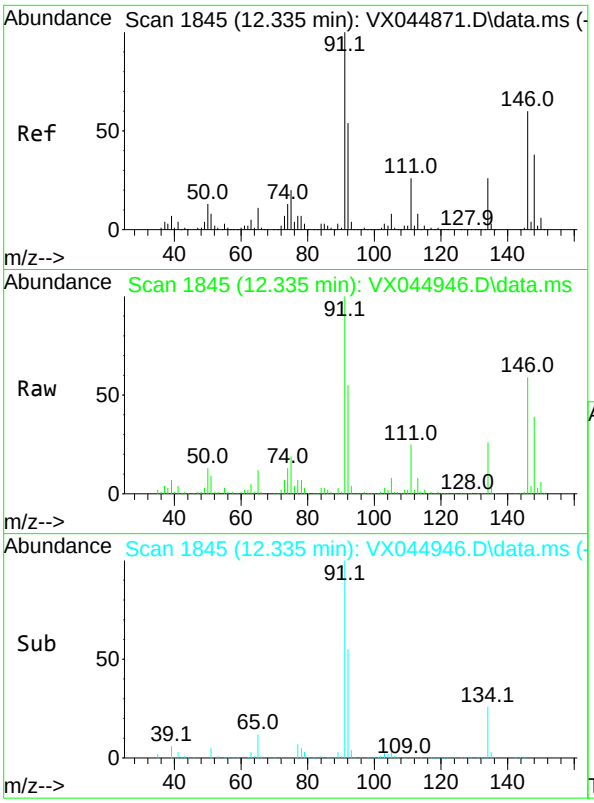


#90
Hexachloroethane
Concen: 45.518 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:117 Resp: 45316

Ion	Ratio	Lower	Upper
117	100		
201	62.6	32.5	97.5

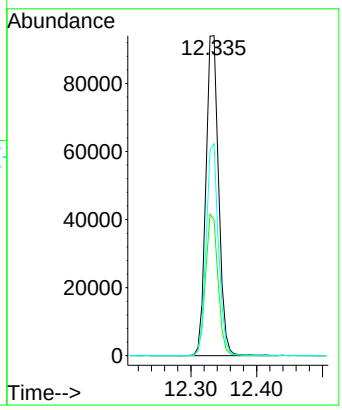




#91
1,2-Dichlorobenzene
Concen: 47.556 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:146 Resp: 12673

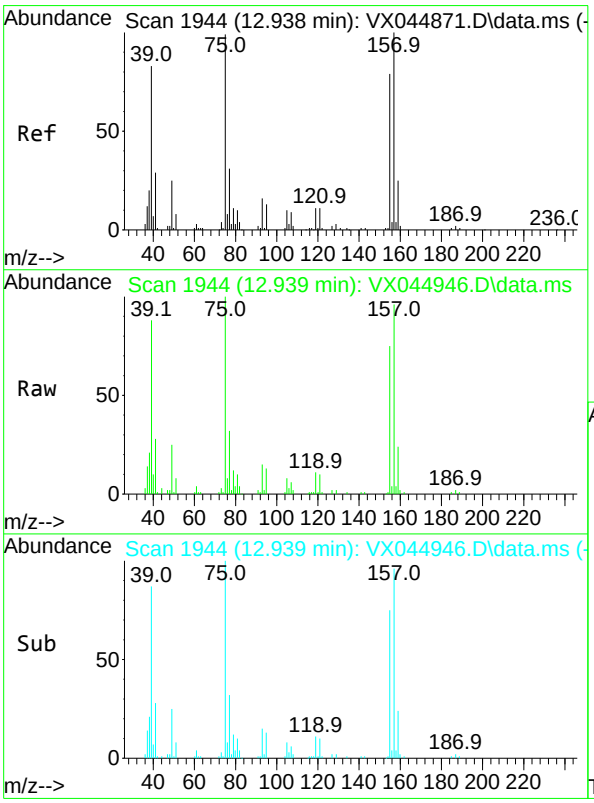
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.8	65.4
148	64.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

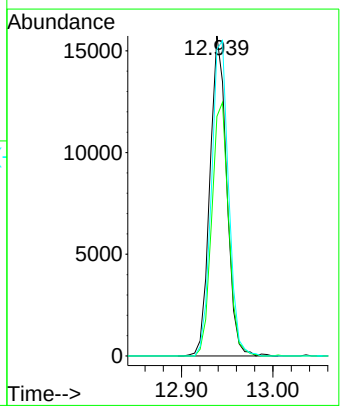
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

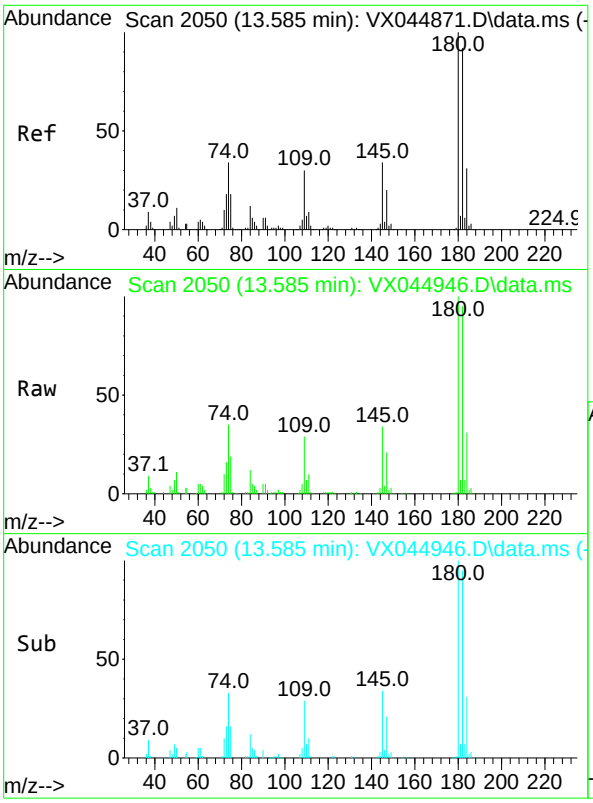


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.133 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 20041

Ion	Ratio	Lower	Upper
75	100		
155	79.6	40.5	121.4
157	100.6	51.4	154.3

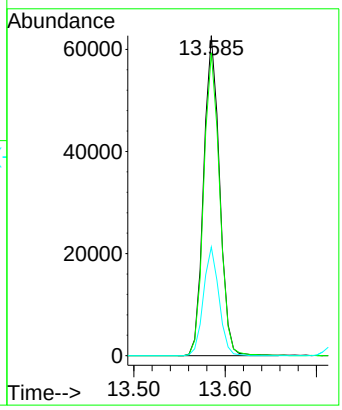




#93
1,2,4-Trichlorobenzene
Concen: 46.804 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:180 Resp: 7547

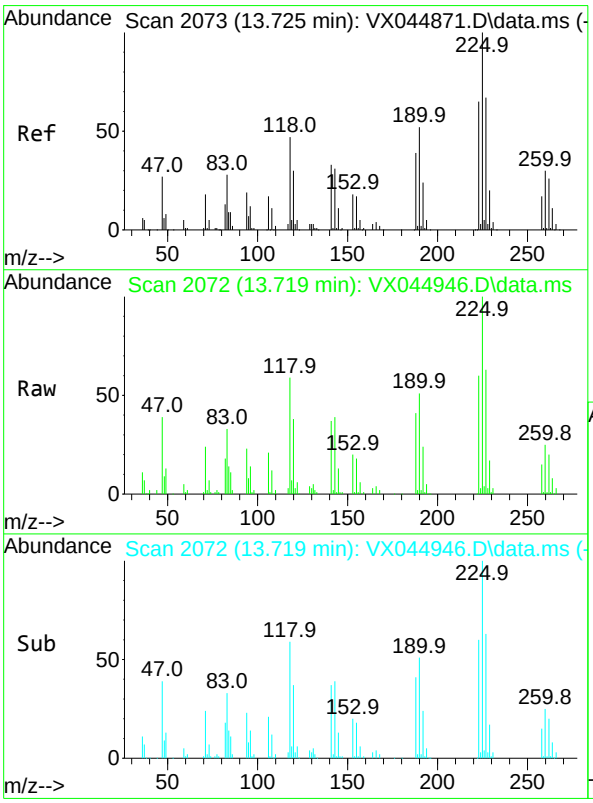
Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.6	142.8
145	33.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

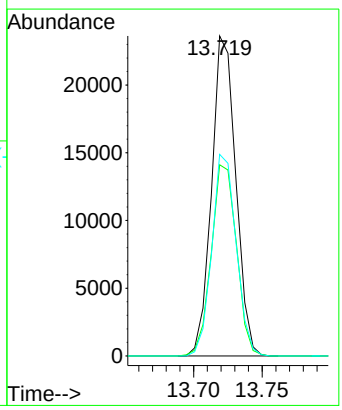
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

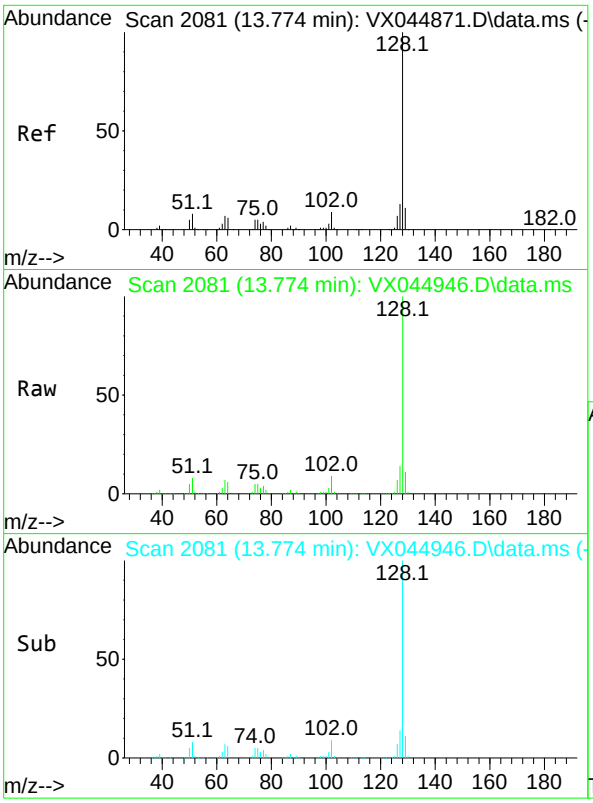


#94
Hexachlorobutadiene
Concen: 45.235 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:225 Resp: 28958

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.4	94.2
227	63.4	32.3	96.8

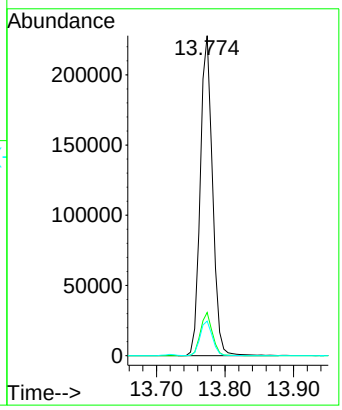




#95
Naphthalene
Concen: 48.767 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:128 Resp: 28427

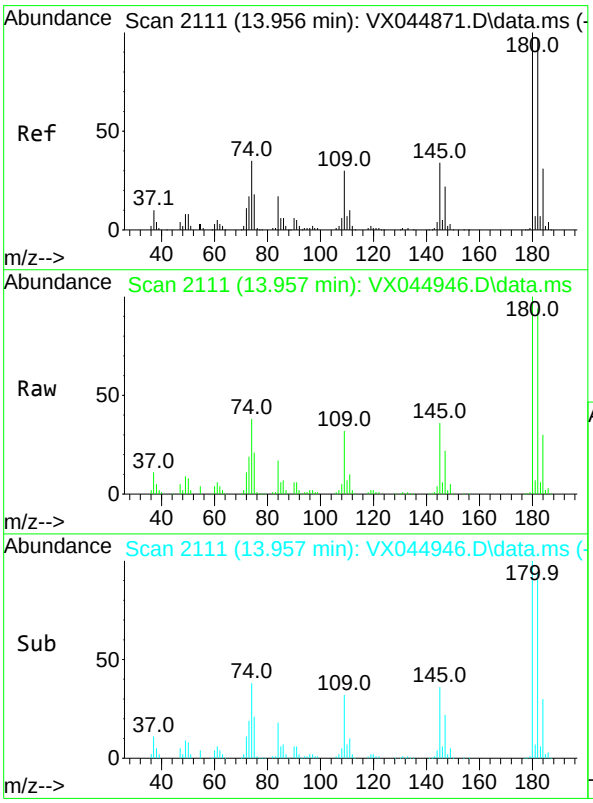
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.1	15.1
129	10.9	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

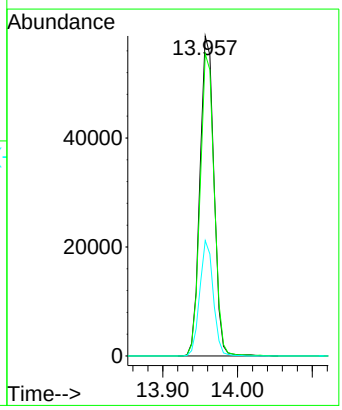
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 46.943 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:180 Resp: 76278

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.6
145	34.8	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	85	0.00
2	T	Dichlorodifluoromethane	0.701	0.664	5.3	80	0.00
3	P	Chloromethane	0.854	0.806	5.6	81	0.00
4	C	Vinyl Chloride	0.827	0.747	9.7#	78	0.00
5	T	Bromomethane	0.247	0.253	-2.4	86	0.00
6	T	Chloroethane	0.307	0.406	-32.2#	101	0.00
7	T	Trichlorofluoromethane	1.046	1.013	3.2	83	0.00
8	T	Diethyl Ether	0.379	0.364	4.0	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.589	6.8	80	0.00
10	T	Methyl Iodide	0.819	0.807	1.5	81	0.00
11	T	Tert butyl alcohol	0.136	0.126	7.4	79	0.00
12	CM	1,1-Dichloroethene	0.644	0.602	6.5#	81	0.00
13	T	Acrolein	0.140	0.144	-2.9	86	0.00
14	T	Allyl chloride	1.165	1.088	6.6	80	0.00
15	T	Acrylonitrile	0.363	0.373	-2.8	84	0.00
16	T	Acetone	0.294	0.304	-3.4	88	0.00
17	T	Carbon Disulfide	1.767	1.520	14.0	73	0.00
18	T	Methyl Acetate	0.928	0.982	-5.8	88	0.00
19	T	Methyl tert-butyl Ether	2.050	1.979	3.5	82	0.00
20	T	Methylene Chloride	0.721	0.685	5.0	83	0.00
21	T	trans-1,2-Dichloroethene	0.634	0.607	4.3	80	0.00
22	T	Diisopropyl ether	2.203	2.194	0.4	83	0.00
23	T	Vinyl Acetate	1.796	1.772	1.3	81	0.00
24	P	1,1-Dichloroethane	1.233	1.191	3.4	82	0.00
25	T	2-Butanone	0.478	0.500	-4.6	84	0.00
26	T	2,2-Dichloropropane	0.978	0.818	16.4	73	0.00
27	T	cis-1,2-Dichloroethene	0.762	0.739	3.0	83	0.00
28	T	Bromochloromethane	0.593	0.543	8.4	79	0.00
29	T	Tetrahydrofuran	0.317	0.330	-4.1	85	0.00
30	C	Chloroform	1.196	1.171	2.1#	85	0.00
31	T	Cyclohexane	1.137	1.048	7.8	79	0.00
32	T	1,1,1-Trichloroethane	1.014	0.973	4.0	82	0.00
33	S	1,2-Dichloroethane-d4	0.732	0.710	3.0	83	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
35	S	Dibromofluoromethane	0.325	0.305	6.2	81	0.00
36	T	1,1-Dichloropropene	0.469	0.440	6.2	81	0.00
37	T	Ethyl Acetate	0.522	0.521	0.2	84	0.00
38	T	Carbon Tetrachloride	0.460	0.437	5.0	82	0.00
39	T	Methylcyclohexane	0.606	0.564	6.9	77	0.00
40	TM	Benzene	1.465	1.409	3.8	82	0.00
41	T	Methacrylonitrile	0.279	0.301	-7.9	85	0.00
42	TM	1,2-Dichloroethane	0.467	0.478	-2.4	86	0.00
43	T	Isopropyl Acetate	0.842	0.853	-1.3	83	0.00
44	TM	Trichloroethene	0.335	0.311	7.2	79	0.00
45	C	1,2-Dichloropropane	0.364	0.353	3.0#	82	0.00
46	T	Dibromomethane	0.253	0.251	0.8	84	0.00
47	T	Bromodichloromethane	0.489	0.487	0.4	83	0.00
48	T	Methyl methacrylate	0.397	0.413	-4.0	83	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	78	0.00
50	S	Toluene-d8	1.229	1.123	8.6	77	0.00
51	T	4-Methyl-2-Pentanone	0.512	0.552	-7.8	85	0.00
52	CM	Toluene	0.872	0.851	2.4#	81	0.00
53	T	t-1,3-Dichloropropene	0.495	0.468	5.5	77	0.00
54	T	cis-1,3-Dichloropropene	0.552	0.530	4.0	78	0.00
55	T	1,1,2-Trichloroethane	0.335	0.336	-0.3	84	0.00
56	T	Ethyl methacrylate	0.542	0.555	-2.4	82	0.00
57	T	1,3-Dichloropropane	0.587	0.579	1.4	81	0.00
58	T	2-Chloroethyl Vinyl ether	0.266	0.276	-3.8	82	0.00
59	T	2-Hexanone	0.369	0.410	-11.1	86	0.00
60	T	Dibromochloromethane	0.359	0.353	1.7	80	0.00
61	T	1,2-Dibromoethane	0.340	0.337	0.9	82	0.00
62	S	4-Bromofluorobenzene	0.414	0.400	3.4	79	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64	T	Tetrachloroethene	0.315	0.294	6.7	83	0.00
65	PM	Chlorobenzene	1.074	1.019	5.1	81	0.00
66	T	1,1,1,2-Tetrachloroethane	0.346	0.326	5.8	81	0.00
67	C	Ethyl Benzene	1.895	1.798	5.1#	81	0.00
68	T	m/p-Xylenes	0.699	0.671	4.0	81	0.00
69	T	o-Xylene	0.701	0.666	5.0	82	0.00
70	T	Styrene	1.130	1.122	0.7	82	0.00
71	P	Bromoform	0.258	0.248	3.9	77	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	4.026	3.804	5.5	82	0.00
74	T	N-amyl acetate	1.822	1.814	0.4	83	0.00
75	P	1,1,2,2-Tetrachloroethane	1.383	1.299	6.1	83	0.00
76	T	1,2,3-Trichloropropane	1.109	1.068	3.7	84	0.00
77	T	Bromobenzene	0.913	0.865	5.3	83	0.00
78	T	n-propylbenzene	4.647	4.450	4.2	82	0.00
79	T	2-Chlorotoluene	2.856	2.649	7.2	81	0.00
80	T	1,3,5-Trimethylbenzene	3.267	3.123	4.4	82	0.00
81	T	trans-1,4-Dichloro-2-butene	0.431	0.366	15.1	73	0.00
82	T	4-Chlorotoluene	3.160	3.031	4.1	83	0.00
83	T	tert-Butylbenzene	3.305	3.133	5.2	82	0.00
84	T	1,2,4-Trimethylbenzene	3.225	3.170	1.7	82	0.00
85	T	sec-Butylbenzene	4.093	3.972	3.0	84	0.00
86	T	p-Isopropyltoluene	3.291	3.206	2.6	82	0.00
87	T	1,3-Dichlorobenzene	1.678	1.564	6.8	81	0.00
88	T	1,4-Dichlorobenzene	1.697	1.566	7.7	81	0.00
89	T	n-Butylbenzene	2.912	2.867	1.5	81	0.00
90	T	Hexachloroethane	0.616	0.561	8.9	80	0.00
91	T	1,2-Dichlorobenzene	1.650	1.569	4.9	82	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.252	0.248	1.6	84	0.00
93	T	1,2,4-Trichlorobenzene	0.998	0.934	6.4	80	0.00
94	T	Hexachlorobutadiene	0.396	0.359	9.3	82	0.00
95	T	Naphthalene	3.608	3.519	2.5	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.006	0.944	6.2	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	85	0.00
2	T	Dichlorodifluoromethane	50.000	47.359	5.3	80	0.00
3	P	Chloromethane	50.000	47.220	5.6	81	0.00
4	C	Vinyl Chloride	50.000	45.178	9.6#	78	0.00
5	T	Bromomethane	50.000	51.069	-2.1	86	0.00
6	T	Chloroethane	50.000	68.385	-36.8#	101	0.00
7	T	Trichlorofluoromethane	50.000	48.416	3.2	83	0.00
8	T	Diethyl Ether	50.000	47.977	4.0	82	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.617	6.8	80	0.00
10	T	Methyl Iodide	50.000	49.282	1.4	81	0.00
11	T	Tert butyl alcohol	250.000	232.483	7.0	79	0.00
12	CM	1,1-Dichloroethene	50.000	46.694	6.6#	81	0.00
13	T	Acrolein	250.000	256.964	-2.8	86	0.00
14	T	Allyl chloride	50.000	46.700	6.6	80	0.00
15	T	Acrylonitrile	250.000	257.102	-2.8	84	0.00
16	T	Acetone	250.000	257.987	-3.2	88	0.00
17	T	Carbon Disulfide	50.000	43.006	14.0	73	0.00
18	T	Methyl Acetate	50.000	52.907	-5.8	88	0.00
19	T	Methyl tert-butyl Ether	50.000	48.262	3.5	82	0.00
20	T	Methylene Chloride	50.000	47.546	4.9	83	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.873	4.3	80	0.00
22	T	Diisopropyl ether	50.000	49.794	0.4	83	0.00
23	T	Vinyl Acetate	250.000	246.538	1.4	81	0.00
24	P	1,1-Dichloroethane	50.000	48.302	3.4	82	0.00
25	T	2-Butanone	250.000	261.422	-4.6	84	0.00
26	T	2,2-Dichloropropane	50.000	41.829	16.3	73	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.523	3.0	83	0.00
28	T	Bromochloromethane	50.000	45.861	8.3	79	0.00
29	T	Tetrahydrofuran	250.000	259.995	-4.0	85	0.00
30	C	Chloroform	50.000	48.960	2.1#	85	0.00
31	T	Cyclohexane	50.000	46.115	7.8	79	0.00
32	T	1,1,1-Trichloroethane	50.000	47.962	4.1	82	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.504	3.0	83	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	85	0.00
35	S	Dibromofluoromethane	50.000	46.969	6.1	81	0.00
36	T	1,1-Dichloropropene	50.000	46.885	6.2	81	0.00
37	T	Ethyl Acetate	50.000	49.909	0.2	84	0.00
38	T	Carbon Tetrachloride	50.000	47.524	5.0	82	0.00
39	T	Methylcyclohexane	50.000	46.499	7.0	77	0.00
40	TM	Benzene	50.000	48.106	3.8	82	0.00
41	T	Methacrylonitrile	50.000	53.812	-7.6	85	0.00
42	TM	1,2-Dichloroethane	50.000	51.167	-2.3	86	0.00
43	T	Isopropyl Acetate	50.000	50.605	-1.2	83	0.00
44	TM	Trichloroethene	50.000	46.385	7.2	79	0.00
45	C	1,2-Dichloropropane	50.000	48.407	3.2#	82	0.00
46	T	Dibromomethane	50.000	49.691	0.6	84	0.00
47	T	Bromodichloromethane	50.000	49.803	0.4	83	0.00
48	T	Methyl methacrylate	50.000	52.025	-4.0	83	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	970.105	3.0	78	0.00
50	S	Toluene-d8	50.000	45.675	8.7	77	0.00
51	T	4-Methyl-2-Pentanone	250.000	269.277	-7.7	85	0.00
52	CM	Toluene	50.000	48.775	2.5#	81	0.00
53	T	t-1,3-Dichloropropene	50.000	47.240	5.5	77	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.971	4.1	78	0.00
55	T	1,1,2-Trichloroethane	50.000	50.097	-0.2	84	0.00
56	T	Ethyl methacrylate	50.000	51.239	-2.5	82	0.00
57	T	1,3-Dichloropropane	50.000	49.311	1.4	81	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.716	-3.9	82	0.00
59	T	2-Hexanone	250.000	277.591	-11.0	86	0.00
60	T	Dibromochloromethane	50.000	49.231	1.5	80	0.00
61	T	1,2-Dibromoethane	50.000	49.619	0.8	82	0.00
62	S	4-Bromofluorobenzene	50.000	48.224	3.6	79	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64	T	Tetrachloroethene	50.000	46.552	6.9	83	0.00
65	PM	Chlorobenzene	50.000	47.447	5.1	81	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	47.222	5.6	81	0.00
67	C	Ethyl Benzene	50.000	47.447	5.1#	81	0.00
68	T	m/p-Xylenes	100.000	95.958	4.0	81	0.00
69	T	o-Xylene	50.000	47.505	5.0	82	0.00
70	T	Styrene	50.000	49.640	0.7	82	0.00
71	P	Bromoform	50.000	48.025	4.0	77	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	87	0.00
73	T	Isopropylbenzene	50.000	47.243	5.5	82	0.00
74	T	N-amyl acetate	50.000	49.788	0.4	83	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.942	6.1	83	0.00
76	T	1,2,3-Trichloropropane	50.000	48.185	3.6	84	0.00
77	T	Bromobenzene	50.000	47.377	5.2	83	0.00
78	T	n-propylbenzene	50.000	47.881	4.2	82	0.00
79	T	2-Chlorotoluene	50.000	46.378	7.2	81	0.00
80	T	1,3,5-Trimethylbenzene	50.000	47.801	4.4	82	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	42.406	15.2	73	0.00
82	T	4-Chlorotoluene	50.000	47.958	4.1	83	0.00
83	T	tert-Butylbenzene	50.000	47.391	5.2	82	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.150	1.7	82	0.00
85	T	sec-Butylbenzene	50.000	48.523	3.0	84	0.00
86	T	p-Isopropyltoluene	50.000	48.701	2.6	82	0.00
87	T	1,3-Dichlorobenzene	50.000	46.587	6.8	81	0.00
88	T	1,4-Dichlorobenzene	50.000	46.128	7.7	81	0.00
89	T	n-Butylbenzene	50.000	49.233	1.5	81	0.00
90	T	Hexachloroethane	50.000	45.518	9.0	80	0.00
91	T	1,2-Dichlorobenzene	50.000	47.556	4.9	82	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.133	1.7	84	0.00
93	T	1,2,4-Trichlorobenzene	50.000	46.804	6.4	80	0.00
94	T	Hexachlorobutadiene	50.000	45.235	9.5	82	0.00
95	T	Naphthalene	50.000	48.767	2.5	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 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	46.943	6.1	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

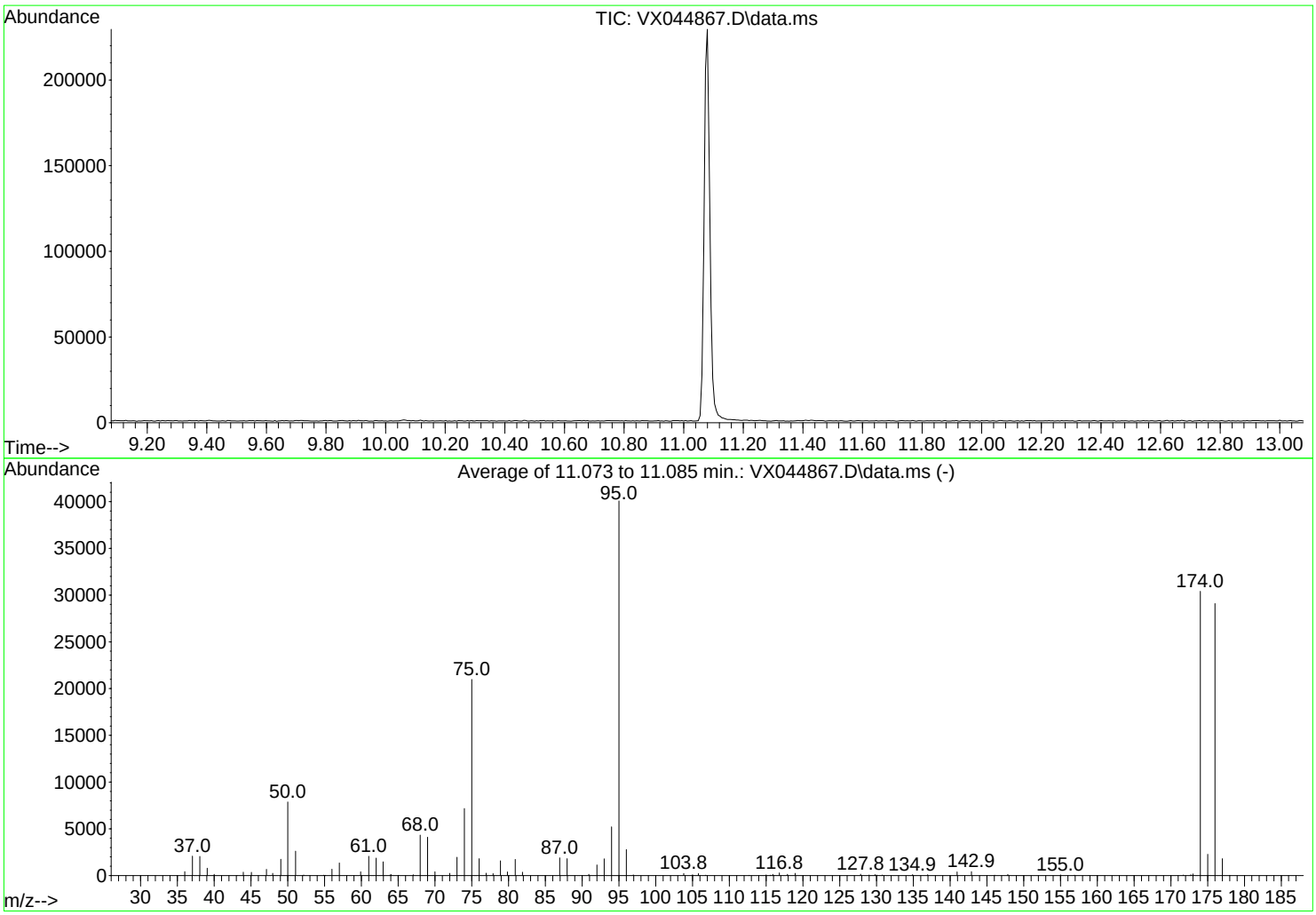
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044867.D
Acq On : 10 Feb 2025 09:35
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\82X021025W.M
Title : SW846 8260
Last Update : Tue Feb 11 03:41:08 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

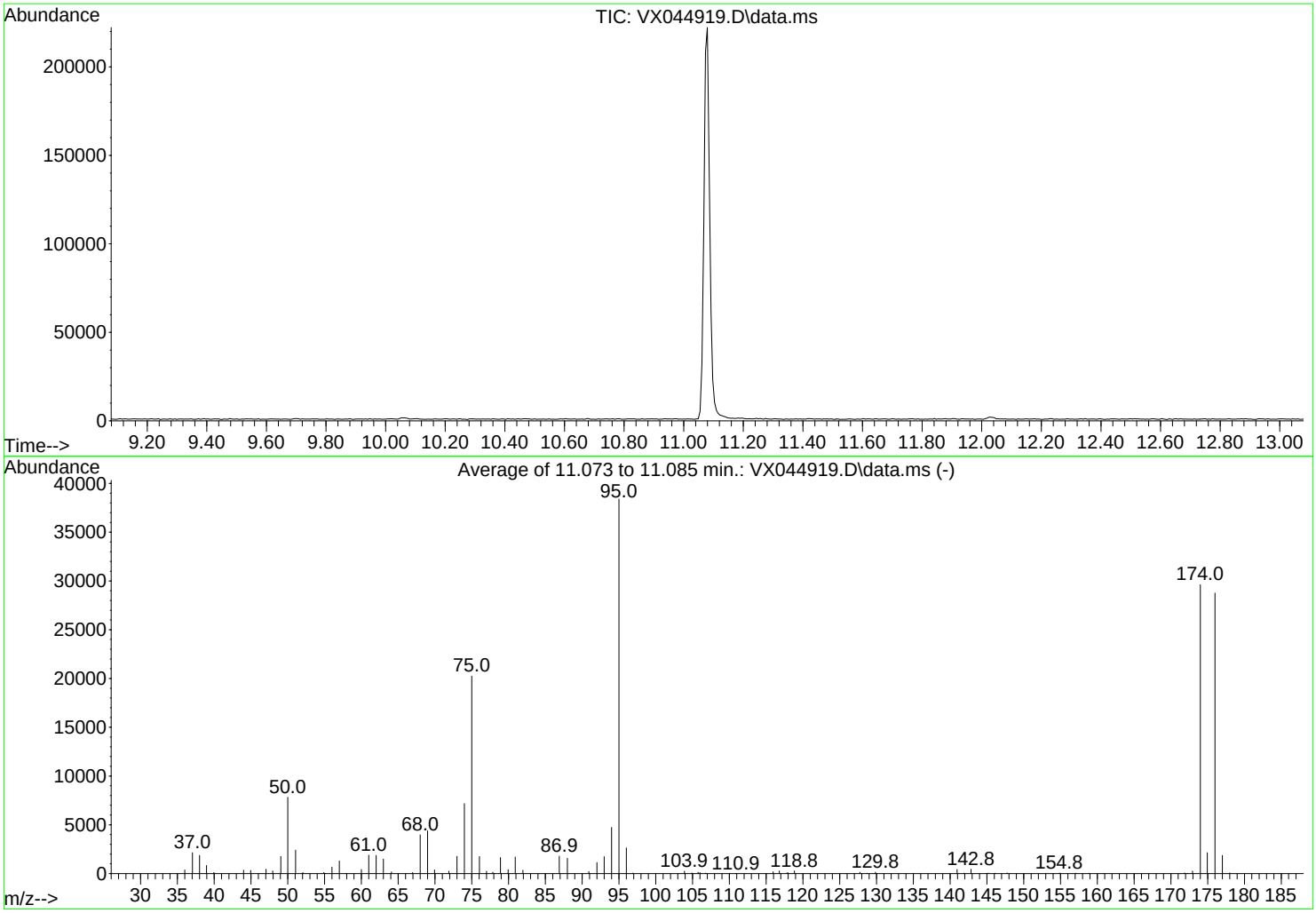
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	7876	PASS
75	95	30	60	52.3	20977	PASS
95	95	100	100	100.0	40077	PASS
96	95	5	9	6.9	2783	PASS
173	174	0.00	2	0.6	186	PASS
174	95	50	100	75.9	30400	PASS
175	174	5	9	7.5	2286	PASS
176	174	95	101	95.7	29104	PASS
177	176	5	9	6.2	1810	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044919.D
Acq On : 12 Feb 2025 09:39
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\82X021025W.M
Title : SW846 8260
Last Update : Tue Feb 11 03:41:08 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	7821	PASS
75	95	30	60	52.7	20242	PASS
95	95	100	100	100.0	38403	PASS
96	95	5	9	6.9	2639	PASS
173	174	0.00	2	0.9	265	PASS
174	95	50	100	77.1	29621	PASS
175	174	5	9	7.2	2137	PASS
176	174	95	101	97.1	28763	PASS
177	176	5	9	6.5	1865	PASS

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX0212WBL01	SDG No.:	Q1347
Lab Sample ID:	VX0212WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044922.D	1		02/12/25 10:57	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX0212WBL01	SDG No.:	Q1347
Lab Sample ID:	VX0212WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044922.D	1		02/12/25 10:57	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.1		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.0		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	97000	5.544				
540-36-3	1,4-Difluorobenzene	194000	6.757				
3114-55-4	Chlorobenzene-d5	177000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	76200	12.018				

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044922.D
Acq On : 12 Feb 2025 10:57
Operator : JC/MD
Sample : VX0212WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Quant Time: Feb 13 00:47:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	96997	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	194457	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	176635	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76229	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	76805	54.093	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.180%			
35) Dibromofluoromethane	5.379	113	64443	50.972	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.940%			
50) Toluene-d8	8.647	98	239094	50.011	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.020%			
62) 4-Bromofluorobenzene	11.079	95	82286	51.055	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.120%			

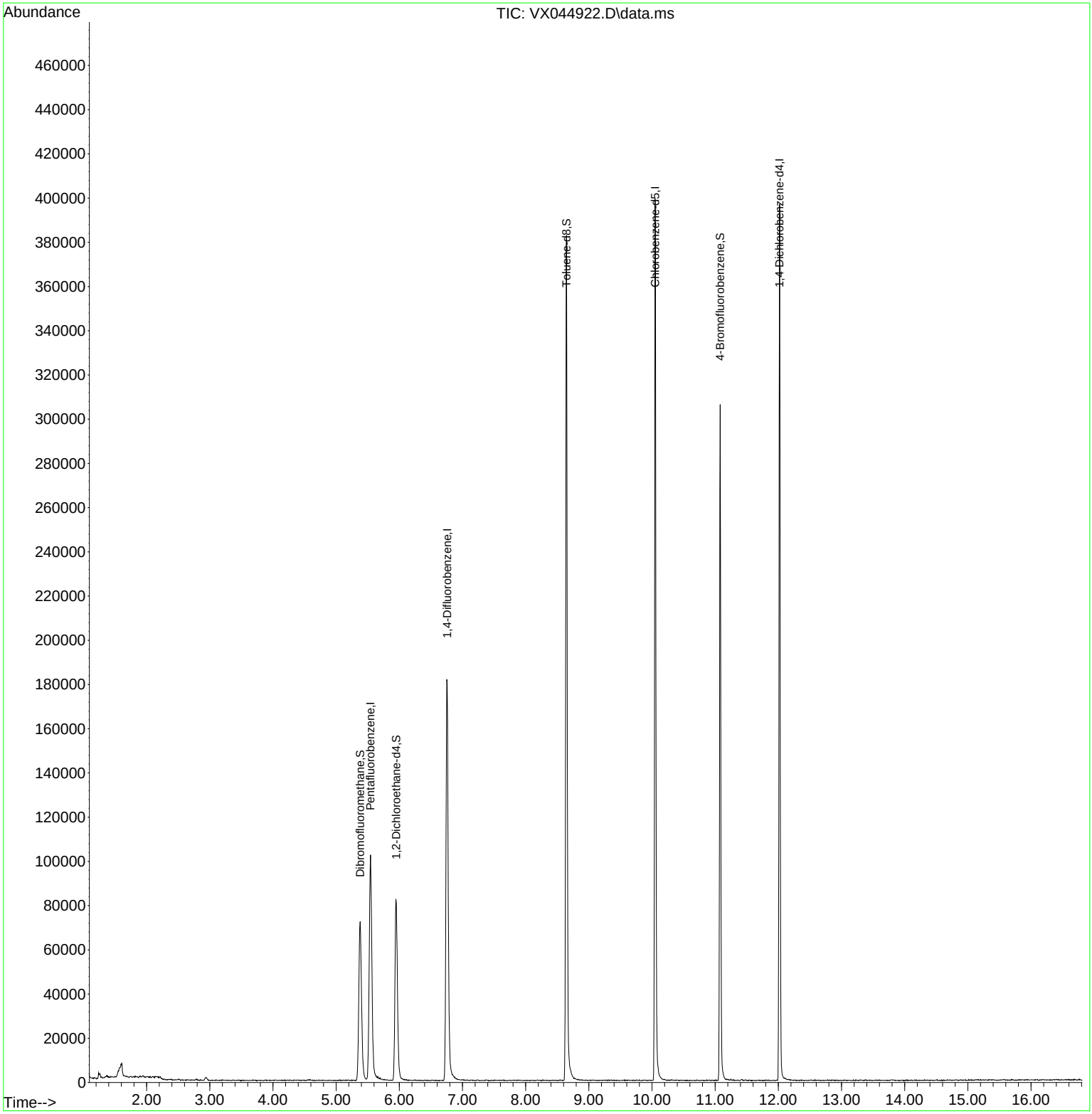
Target Compounds Qvalue

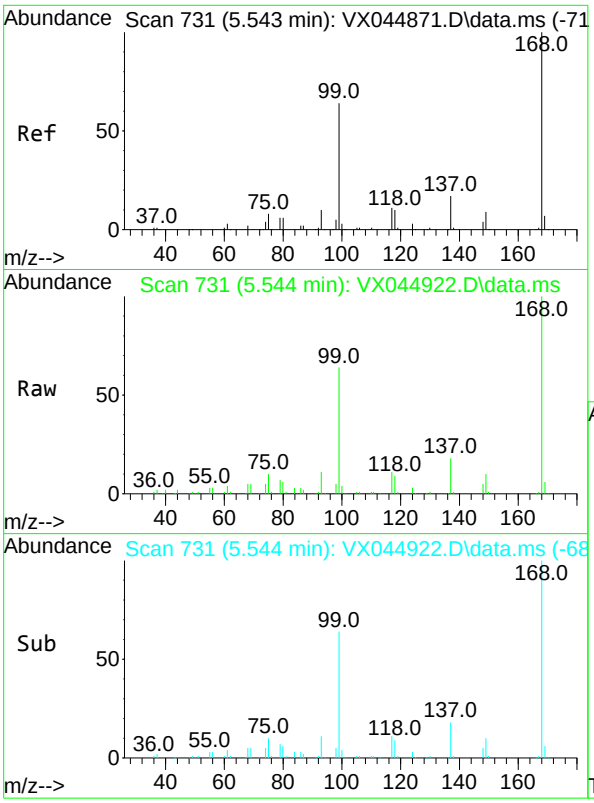
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044922.D
Acq On : 12 Feb 2025 10:57
Operator : JC/MD
Sample : VX0212WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Quant Time: Feb 13 00:47:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



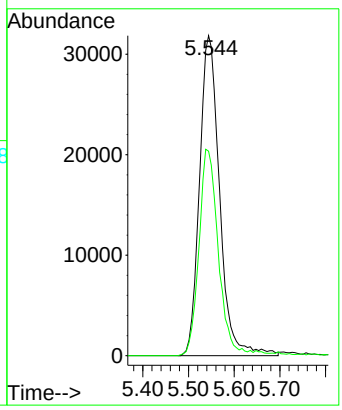


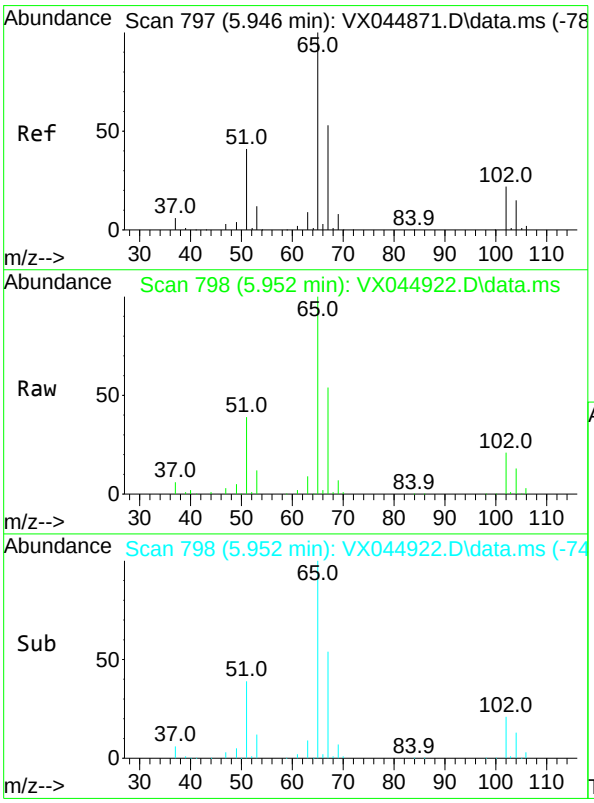
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044922.D
Acq: 12 Feb 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Tgt Ion:168 Resp: 96997

Ion	Ratio	Lower	Upper
168	100		
99	63.9	51.2	76.8

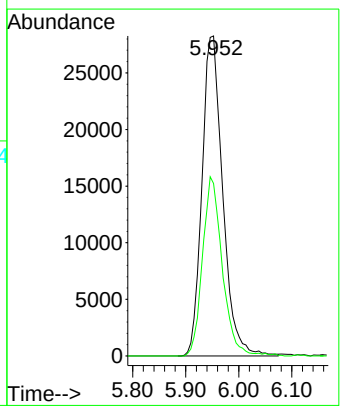


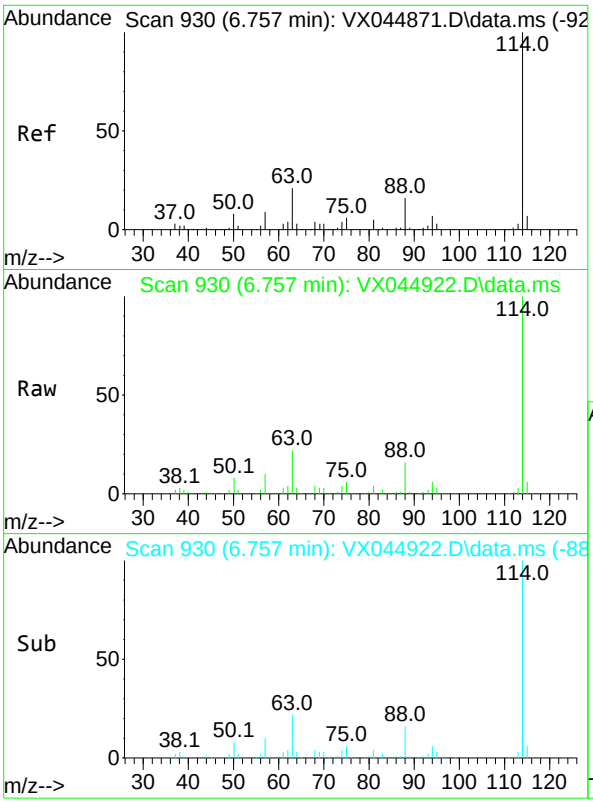


#33
1,2-Dichloroethane-d4
Concen: 54.093 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.007 min
Lab File: VX044922.D
Acq: 12 Feb 2025 10:57

Tgt Ion: 65 Resp: 76805

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	108.2



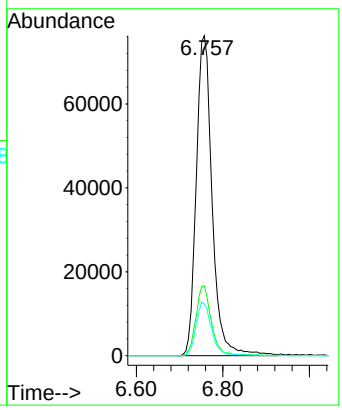


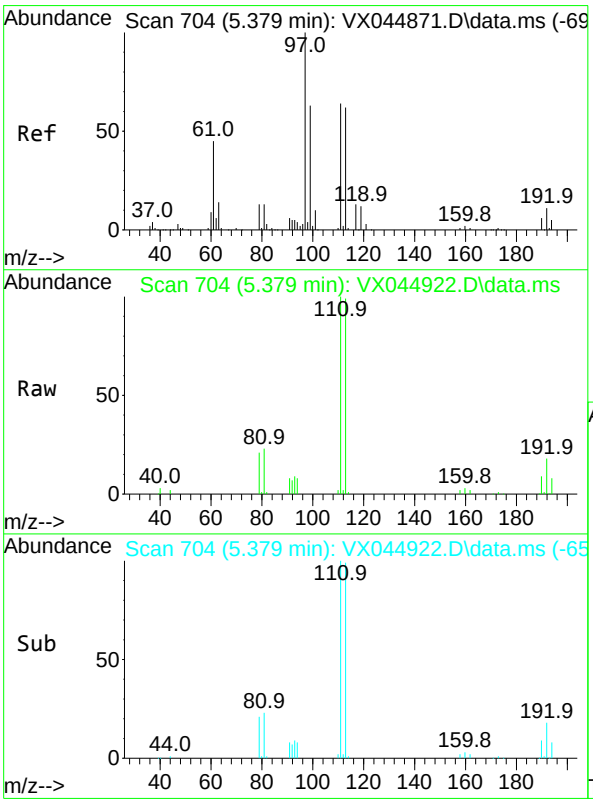
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044922.D
Acq: 12 Feb 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Tgt Ion:114 Resp: 194457

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	16.2	0.0	31.4

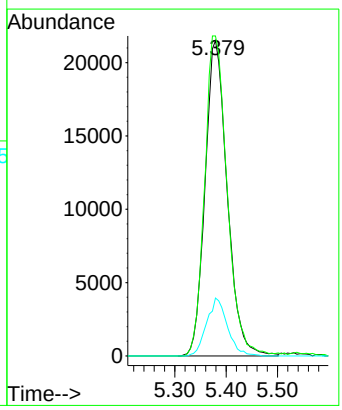


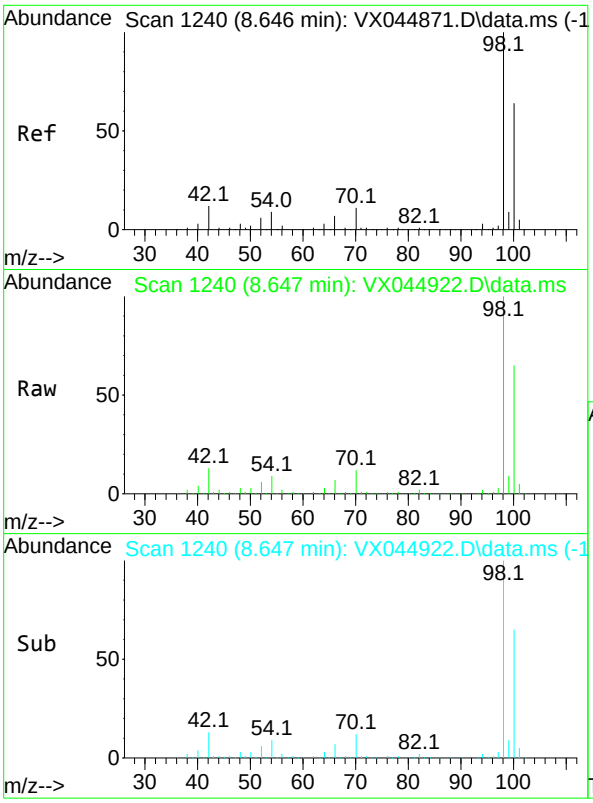


#35
Dibromofluoromethane
Concen: 50.972 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044922.D
Acq: 12 Feb 2025 10:57

Tgt Ion:113 Resp: 64443

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.5	125.3
192	17.2	14.4	21.6



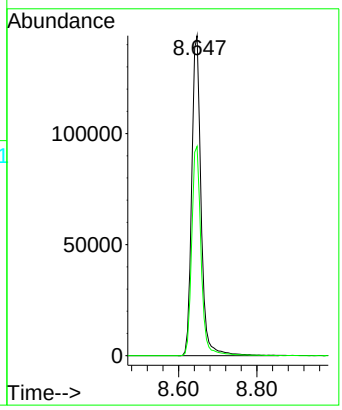


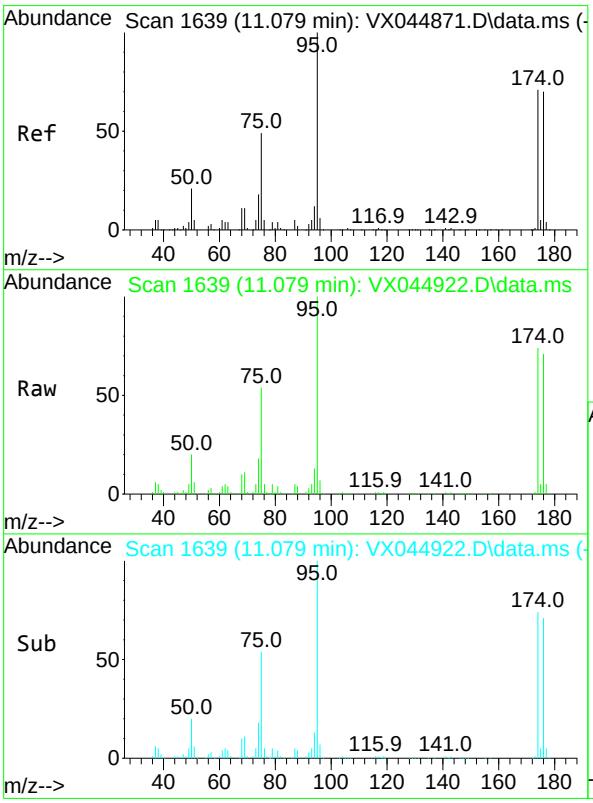
#50
Toluene-d8
Concen: 50.011 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044922.D
Acq: 12 Feb 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Tgt Ion: 98 Resp: 239094

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1

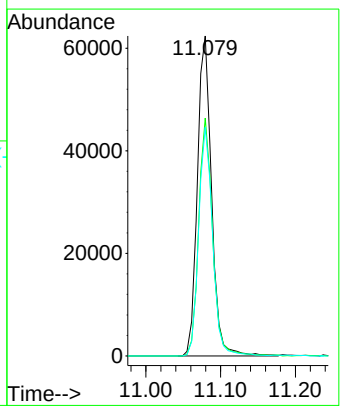


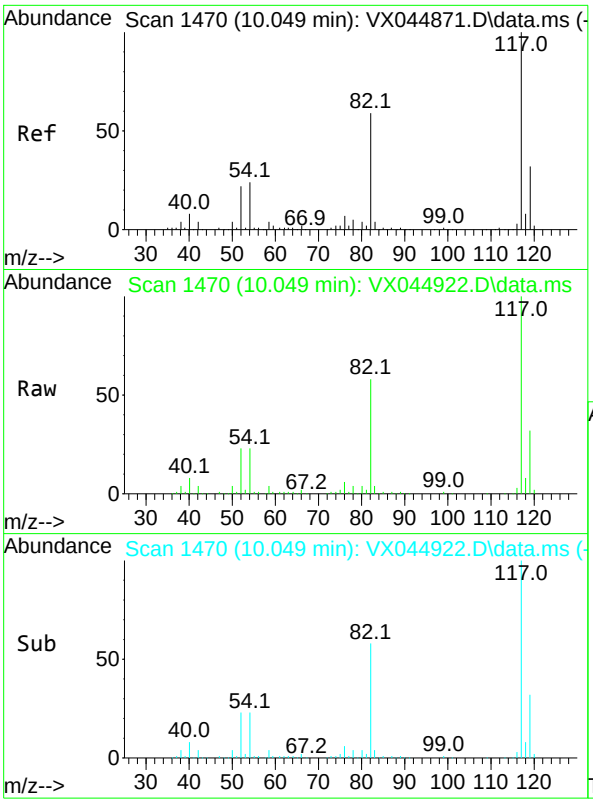


#62
4-Bromofluorobenzene
Concen: 51.055 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044922.D
Acq: 12 Feb 2025 10:57

Tgt Ion: 95 Resp: 82286

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	142.6
176	70.1	0.0	141.6



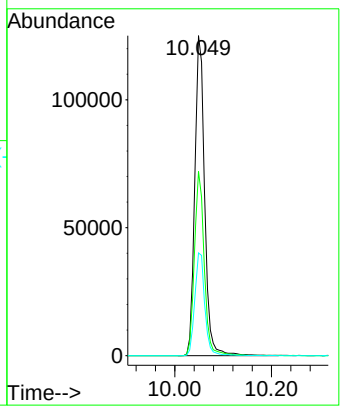


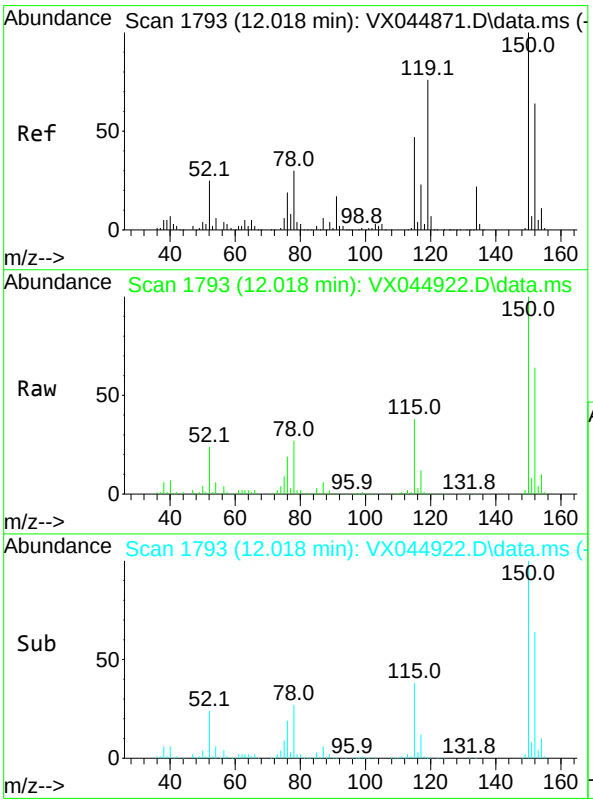
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044922.D
Acq: 12 Feb 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Tgt Ion:117 Resp: 176635

Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.5	71.3
119	32.1	25.4	38.0

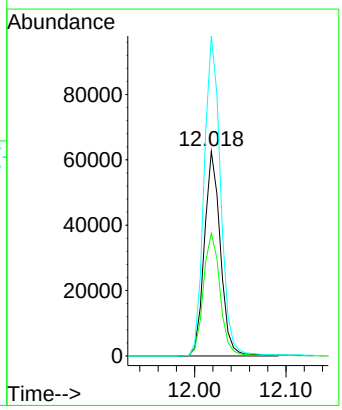




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044922.D
Acq: 12 Feb 2025 10:57

Tgt Ion:152 Resp: 76229

Ion	Ratio	Lower	Upper
152	100		
115	62.3	43.4	130.1
150	161.5	0.0	350.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044922.D
Acq On : 12 Feb 2025 10:57
Operator : JC/MD
Sample : VX0212WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260

Signal : TIC: VX044922.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.575	71	80	81	rBV5	4129	9179	1.43%	0.278%
2	1.605	81	85	90	rVB3	5717	10571	1.65%	0.321%
3	5.379	693	704	719	rBV2	71991	214956	33.48%	6.519%
4	5.544	720	731	745	rBV2	101418	289590	45.11%	8.783%
5	5.946	789	797	816	rBV	82003	223112	34.75%	6.767%
6	6.751	921	929	949	rBV	181394	457468	71.25%	13.874%
7	8.647	1233	1240	1259	rBV	382248	642029	100.00%	19.472%
8	10.049	1465	1470	1488	rBV	398650	558142	86.93%	16.928%
9	11.079	1634	1639	1653	rBV	305686	400524	62.38%	12.147%
10	12.018	1788	1793	1804	rBV	396332	491657	76.58%	14.911%

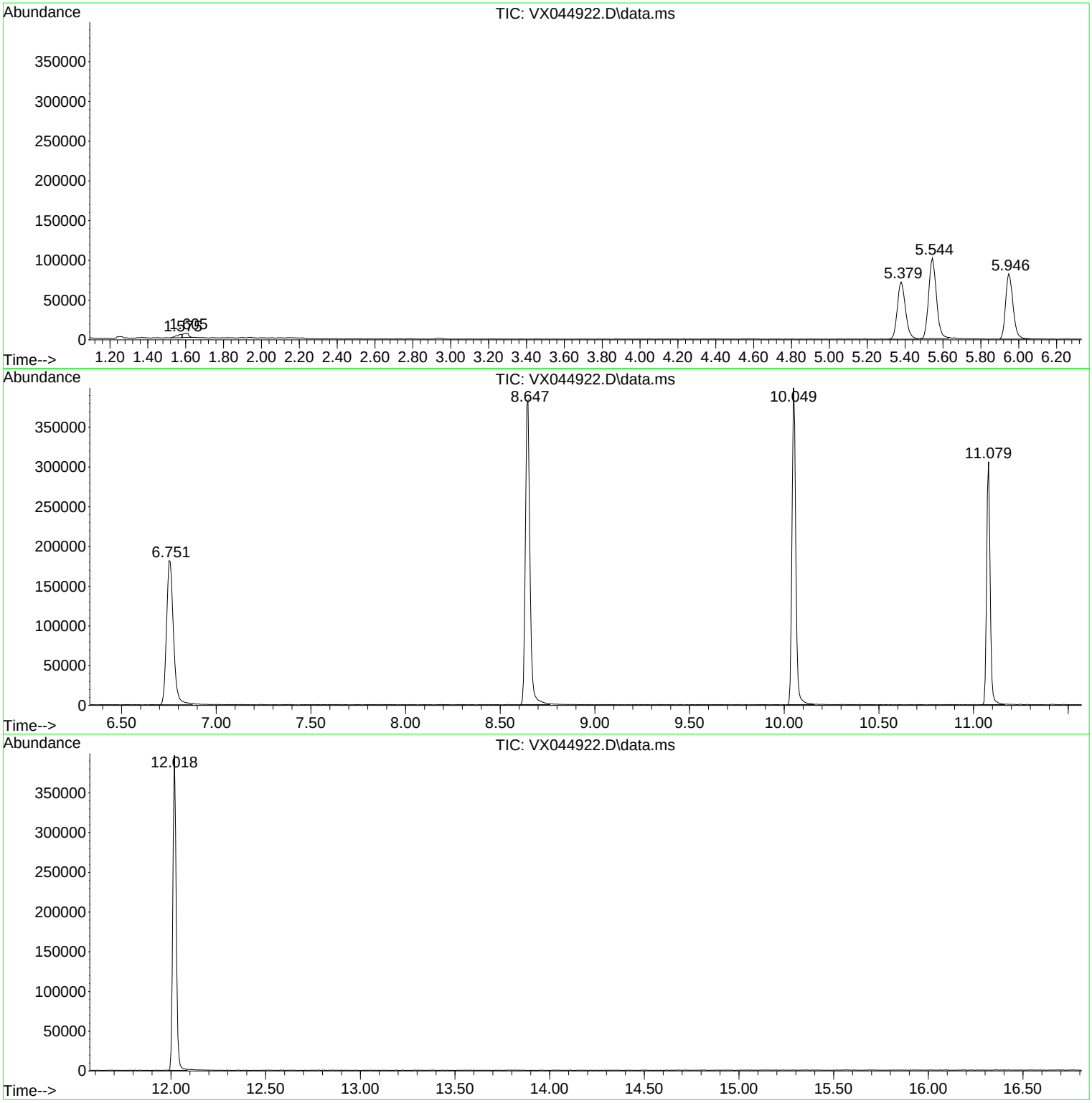
Sum of corrected areas: 3297228

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044922.D
Acq On : 12 Feb 2025 10:57
Operator : JC/MD
Sample : VX0212WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044922.D
Acq On : 12 Feb 2025 10:57
Operator : JC/MD
Sample : VX0212WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044922.D
Acq On : 12 Feb 2025 10:57
Operator : JC/MD
Sample : VX0212WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX0212WBS01	SDG No.:	Q1347
Lab Sample ID:	VX0212WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044923.D	1		02/12/25 11:20	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.4		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.7		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	20.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.9		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.9		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.3		0.26	0.75	1.00	ug/L
67-64-1	Acetone	95.2		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.9		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.6		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.4		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.2		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.6		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	97.1		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	19.1		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.8		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.8		0.19	0.50	1.00	ug/L
71-43-2	Benzene	18.9		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.2		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.5		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.1		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.1		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.0		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.1		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX0212WBS01	SDG No.:	Q1347
Lab Sample ID:	VX0212WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044923.D	1		02/12/25 11:20	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.9		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.3		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	18.9		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.3		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	18.9		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.3		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.6		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.6		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.2		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.2		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	111000	5.543				
540-36-3	1,4-Difluorobenzene	204000	6.757				
3114-55-4	Chlorobenzene-d5	179000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	82300	12.018				

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044923.D
Acq On : 12 Feb 2025 11:20
Operator : JC/MD
Sample : VX0212WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 00:47:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	111261	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	204350	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	179478	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	82301	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81774	50.209	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.420%			
35) Dibromofluoromethane	5.379	113	65583	49.362	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.720%			
50) Toluene-d8	8.647	98	247053	49.174	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.340%			
62) 4-Bromofluorobenzene	11.079	95	85651	50.570	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29797	19.095	ug/l	98
3) Chloromethane	1.300	50	34997	18.427	ug/l	100
4) Vinyl Chloride	1.373	62	32596	17.716	ug/l	98
5) Bromomethane	1.593	94	11098	20.156	ug/l	96
6) Chloroethane	1.666	64	16921	21.813	ug/l	93
7) Trichlorofluoromethane	1.873	101	44002	18.911	ug/l	98
8) Diethyl Ether	2.129	74	16393	19.426	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.324	101	26558	18.891	ug/l	99
10) Methyl Iodide	2.446	142	35166	19.301	ug/l	98
11) Tert butyl alcohol	2.977	59	27915	92.390	ug/l	100
12) 1,1-Dichloroethene	2.312	96	26286	18.330	ug/l	93
13) Acrolein	2.233	56	33487	107.421	ug/l	99
14) Allyl chloride	2.660	41	47738	18.419	ug/l	98
15) Acrylonitrile	3.062	53	77467	96.028	ug/l	99
16) Acetone	2.379	43	62338	95.211	ug/l	97
17) Carbon Disulfide	2.507	76	66564	16.927	ug/l	99
18) Methyl Acetate	2.696	43	40821	19.757	ug/l	95
19) Methyl tert-butyl Ether	3.111	73	84907	18.609	ug/l	97
20) Methylene Chloride	2.782	84	29468	18.375	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	25735	18.233	ug/l	94
22) Diisopropyl ether	3.757	45	92775	18.921	ug/l	94
23) Vinyl Acetate	3.714	43	367002	91.811	ug/l	98
24) 1,1-Dichloroethane	3.605	63	50977	18.581	ug/l	98
25) 2-Butanone	4.556	43	103185	97.054	ug/l	95
26) 2,2-Dichloropropane	4.464	77	38585	17.734	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	32165	18.972	ug/l	99
28) Bromochloromethane	4.885	49	23788	18.042	ug/l	99
29) Tetrahydrofuran	5.001	42	67521	95.643	ug/l	99
30) Chloroform	5.086	83	50826	19.103	ug/l	99
31) Cyclohexane	5.464	56	45845	18.126	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	42322	18.753	ug/l	99
36) 1,1-Dichloropropene	5.684	75	35178	18.352	ug/l	100
37) Ethyl Acetate	4.714	43	39995	18.759	ug/l	100
38) Carbon Tetrachloride	5.671	117	34481	18.357	ug/l	99
39) Methylcyclohexane	7.372	83	46566	18.791	ug/l	96
40) Benzene	6.031	78	113256	18.922	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044923.D
Acq On : 12 Feb 2025 11:20
Operator : JC/MD
Sample : VX0212WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 00:47:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations APPROVED

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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	22027	19.301	ug/l		97
42) 1,2-Dichloroethane	6.086	62	37792	19.811	ug/l		98
43) Isopropyl Acetate	6.336	43	63554	18.459	ug/l		98
44) Trichloroethene	7.122	130	24953	18.239	ug/l		100
45) 1,2-Dichloropropane	7.427	63	27612	18.543	ug/l		94
46) Dibromomethane	7.580	93	19672	19.049	ug/l		98
47) Bromodichloromethane	7.817	83	38240	19.124	ug/l		98
48) Methyl methacrylate	7.689	41	31017	19.106	ug/l		97
49) 1,4-Dioxane	7.659	88	13925	399.801	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	211899	101.236	ug/l		97
52) Toluene	8.714	92	67935	19.058	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	36346	17.962	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	40844	18.104	ug/l		99
55) 1,1,2-Trichloroethane	9.146	97	26296	19.190	ug/l		98
56) Ethyl methacrylate	9.116	69	40980	18.516	ug/l		97
57) 1,3-Dichloropropane	9.305	76	46604	19.438	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	104955	96.581	ug/l		100
59) 2-Hexanone	9.427	43	154657	102.550	ug/l		98
60) Dibromochloromethane	9.518	129	27533	18.788	ug/l		99
61) 1,2-Dibromoethane	9.604	107	26548	19.115	ug/l		96
64) Tetrachloroethene	9.268	164	21396	18.903	ug/l		98
65) Chlorobenzene	10.073	112	72694	18.857	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	22294	17.968	ug/l		96
67) Ethyl Benzene	10.189	91	128430	18.879	ug/l		99
68) m/p-Xylenes	10.299	106	96088	38.291	ug/l		99
69) o-Xylene	10.640	106	47534	18.878	ug/l		100
70) Styrene	10.652	104	78288	19.298	ug/l		99
71) Bromoform	10.799	173	17535	18.936	ug/l	#	98
73) Isopropylbenzene	10.957	105	120952	18.252	ug/l		100
74) N-amyl acetate	10.841	43	55519	18.514	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	42256	18.556	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	33758m	18.500	ug/l		
77) Bromobenzene	11.195	156	28158	18.742	ug/l		97
78) n-propylbenzene	11.298	91	140438	18.361	ug/l		99
79) 2-Chlorotoluene	11.359	91	86613	18.425	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	100686	18.723	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	11525	16.247	ug/l		91
82) 4-Chlorotoluene	11.451	91	97212	18.692	ug/l		99
83) tert-Butylbenzene	11.713	119	100970	18.560	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	102485	19.309	ug/l		99
85) sec-Butylbenzene	11.890	105	126144	18.725	ug/l		100
86) p-Isopropyltoluene	12.006	119	102245	18.873	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	51423	18.612	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	52003	18.616	ug/l		99
89) n-Butylbenzene	12.329	91	89228	18.617	ug/l		99
90) Hexachloroethane	12.536	117	17270	17.025	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	52467	19.322	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7371	17.736	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	29489	17.948	ug/l		99
94) Hexachlorobutadiene	13.725	225	12394	19.001	ug/l		98
95) Naphthalene	13.774	128	110501	18.605	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	30930	18.682	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
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Sample : VX0212WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 00:47:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
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Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations APPROVED

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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\VX021225\
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Instrument :
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ClientSampleId :
VX0212WBS01

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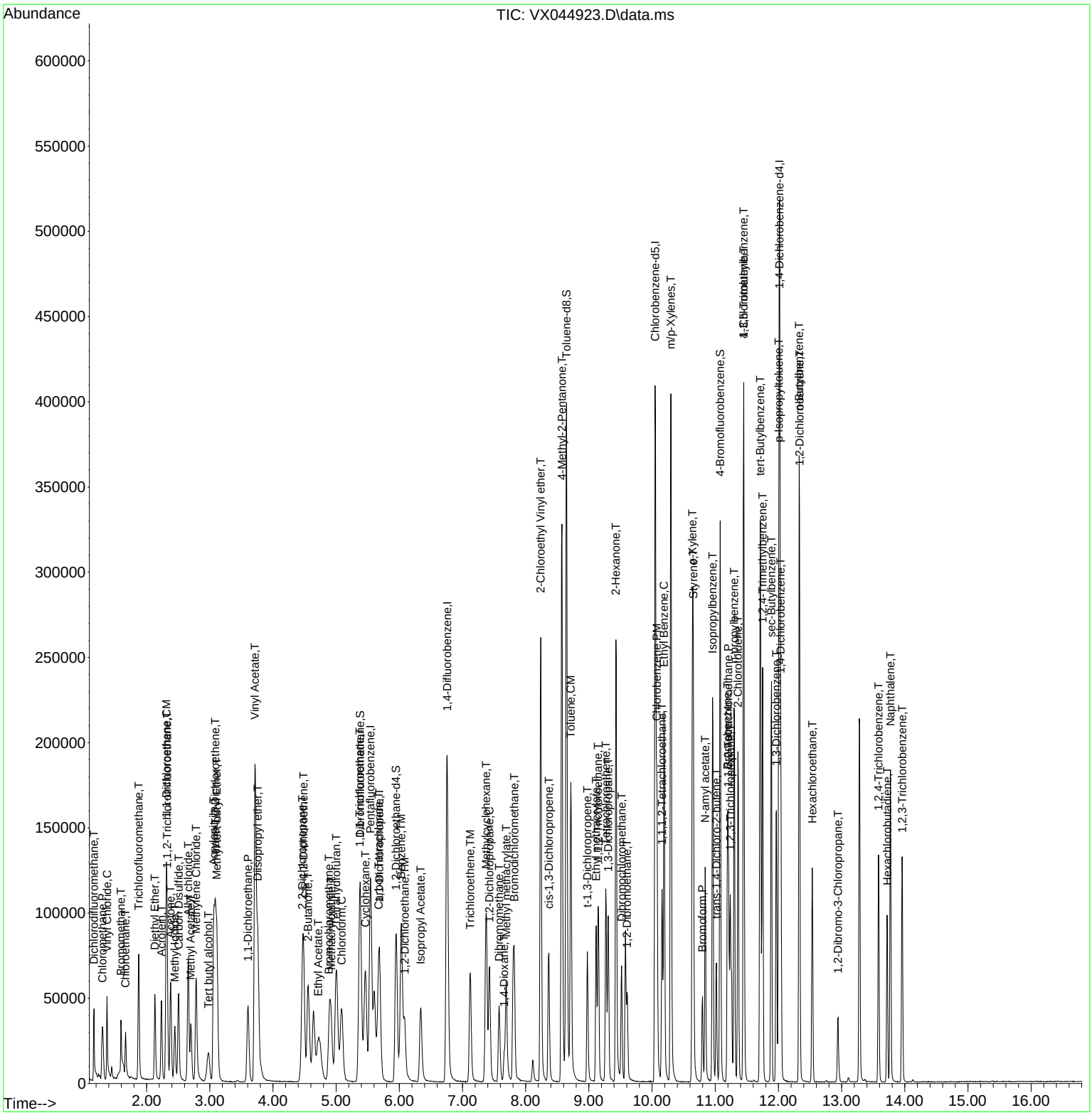
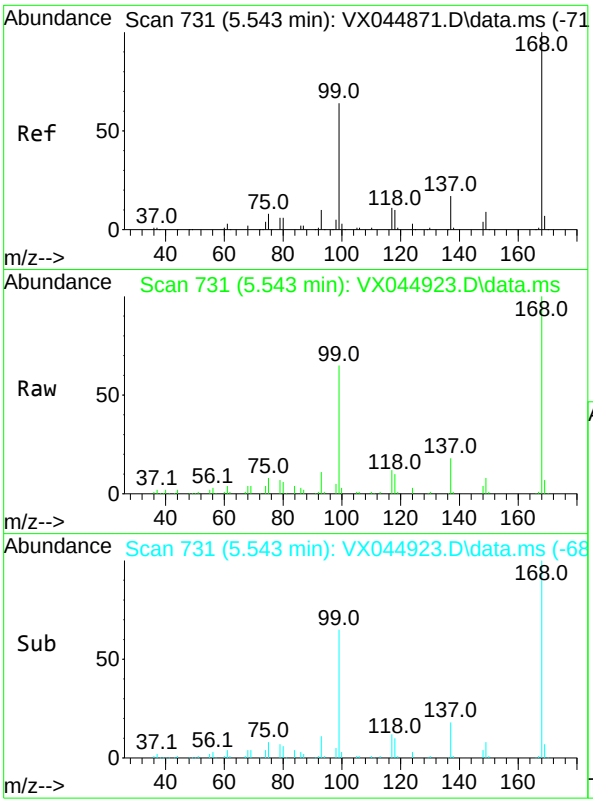
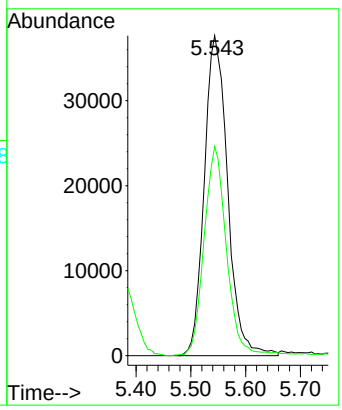




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:168 Resp: 11126

Ion	Ratio	Lower	Upper
168	100		
99	65.1	51.2	76.8



Instrument :
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Manual Integrations
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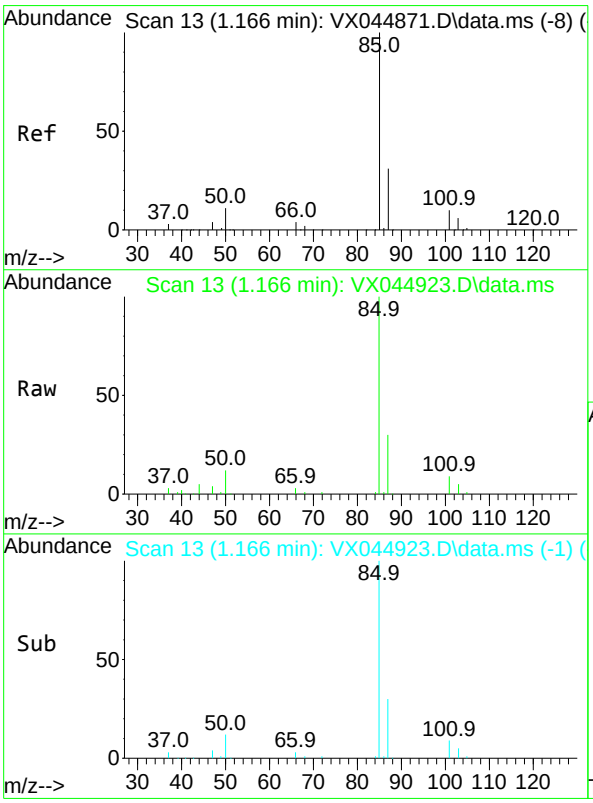
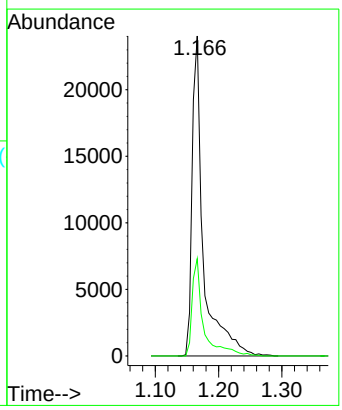
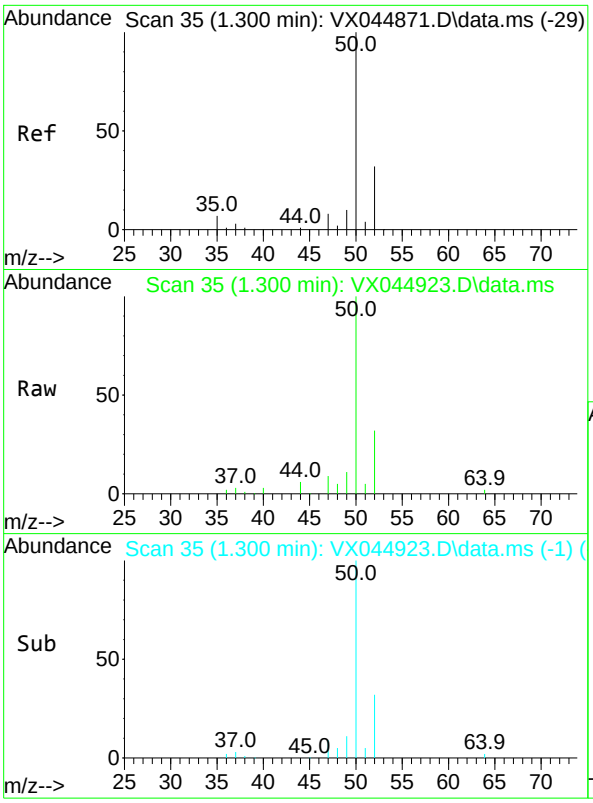


#2
Dichlorodifluoromethane
Concen: 19.095 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 85 Resp: 29797

Ion	Ratio	Lower	Upper
85	100		
87	30.4	15.8	47.3

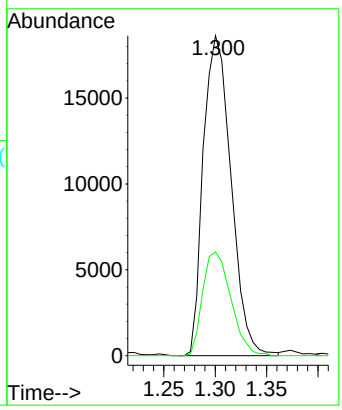




#3
Chloromethane
Concen: 18.427 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 50 Resp: 3499

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9



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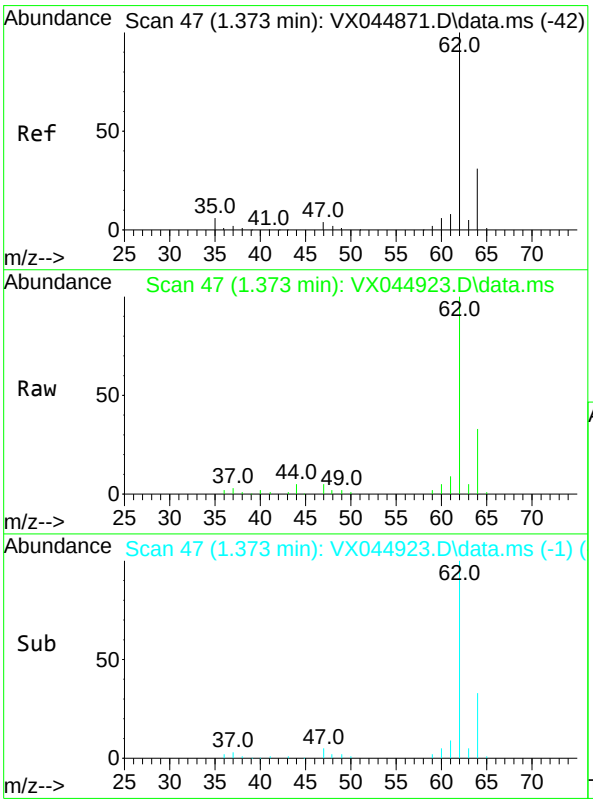
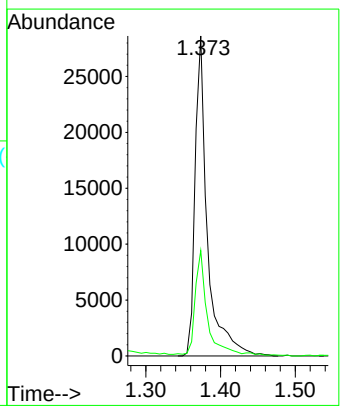
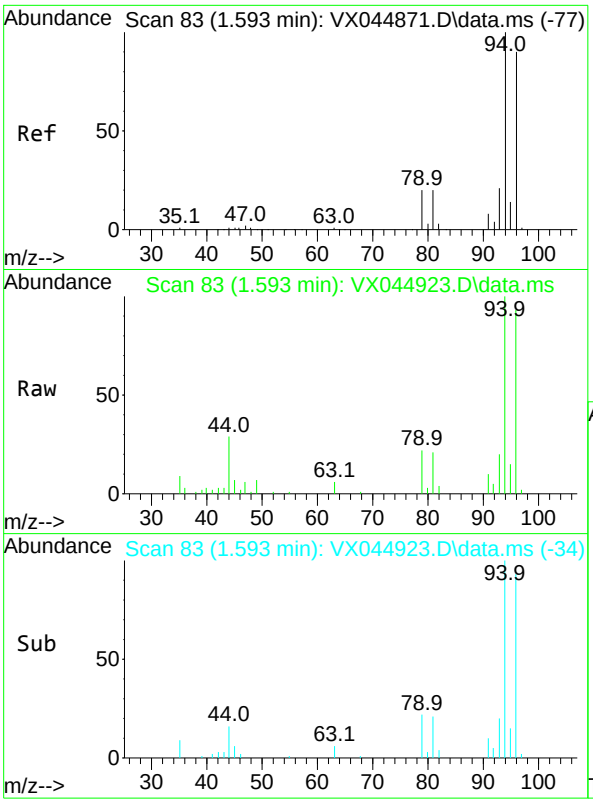


#4
Vinyl Chloride
Concen: 17.716 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 62 Resp: 32596

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.4	38.0

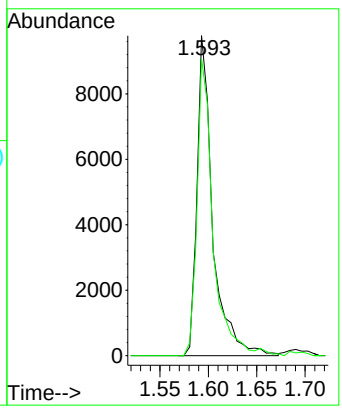




#5
Bromomethane
Concen: 20.156 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 94 Resp: 1109

Ion	Ratio	Lower	Upper
94	100		
96	92.8	71.6	107.4



Instrument :
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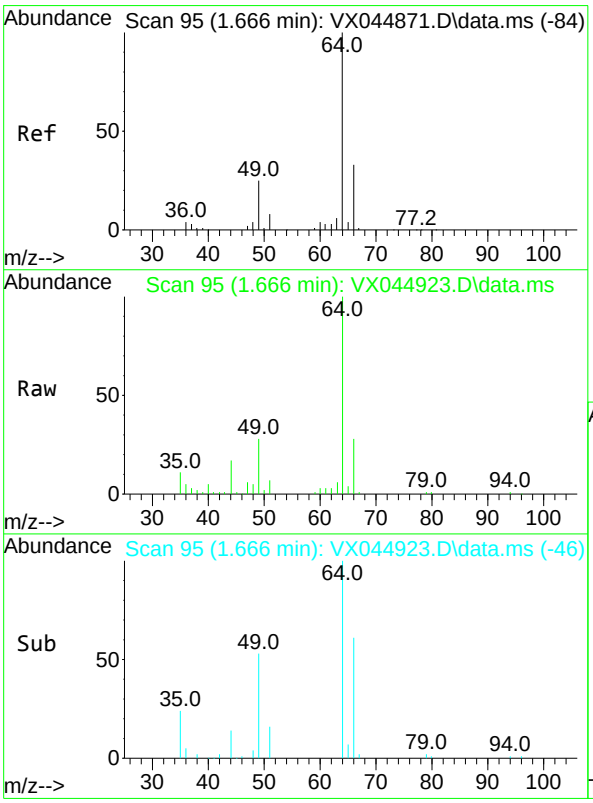
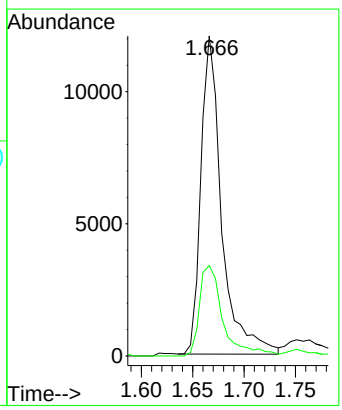
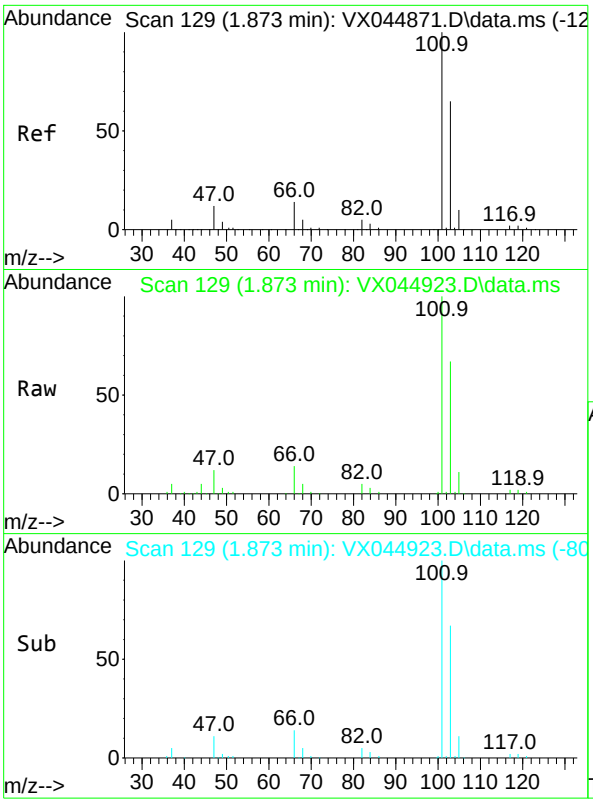


#6
Chloroethane
Concen: 21.813 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 64 Resp: 16921

Ion	Ratio	Lower	Upper
64	100		
66	28.4	25.9	38.9

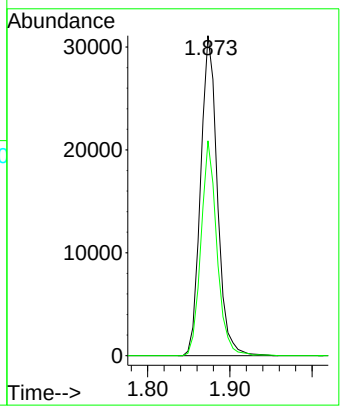




#7
Trichlorofluoromethane
Concen: 18.911 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:101 Resp: 4400

Ion	Ratio	Lower	Upper
101	100		
103	67.2	52.4	78.6



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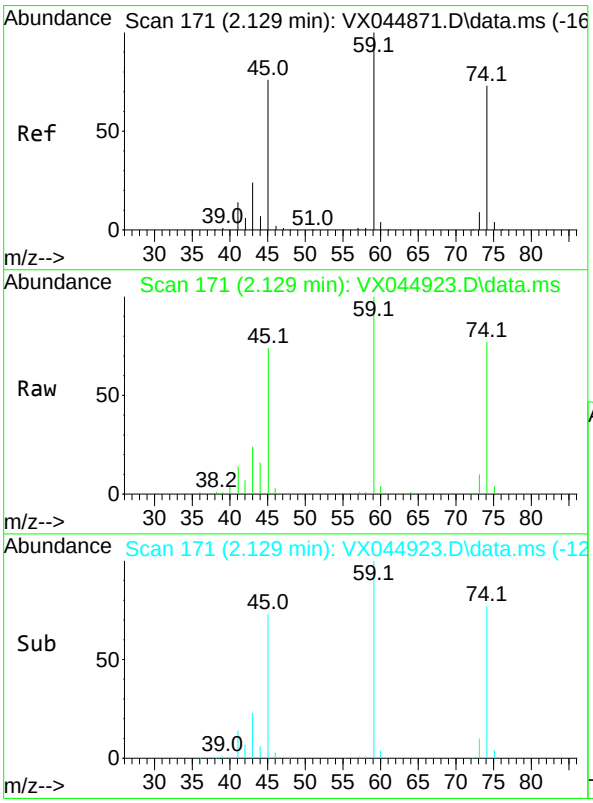
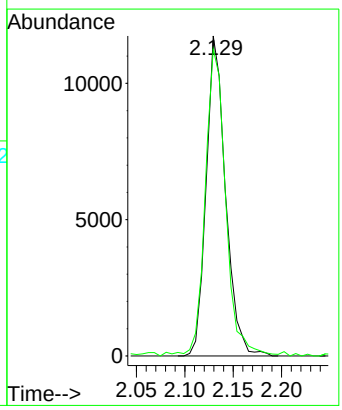
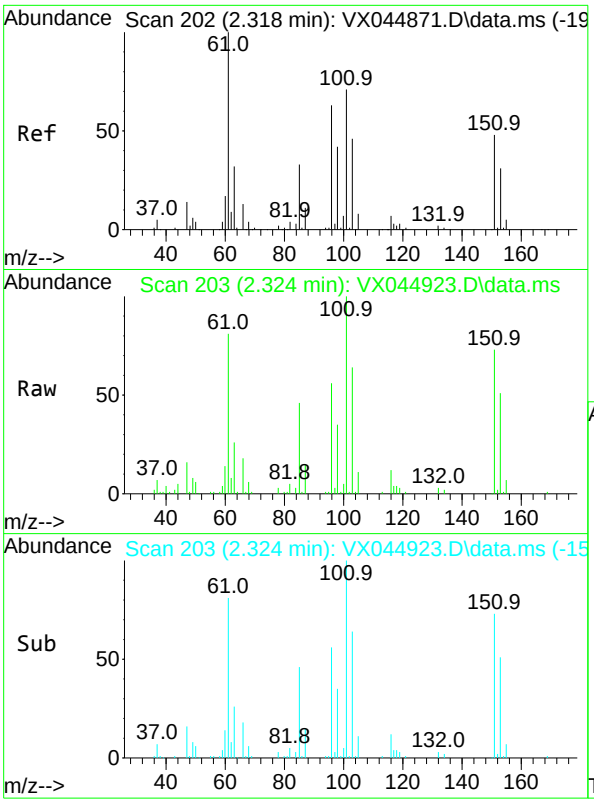


#8
Diethyl Ether
Concen: 19.426 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 74 Resp: 16393

Ion	Ratio	Lower	Upper
74	100		
45	101.4	51.1	153.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.891 ug/l
RT: 2.324 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:101 Resp: 2655

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.7	53.5
151	69.0	56.0	84.0

Instrument :
MSVOA_X
ClientSampleId :
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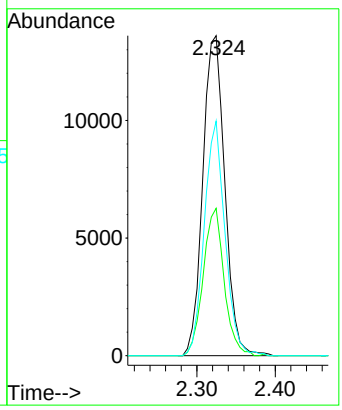
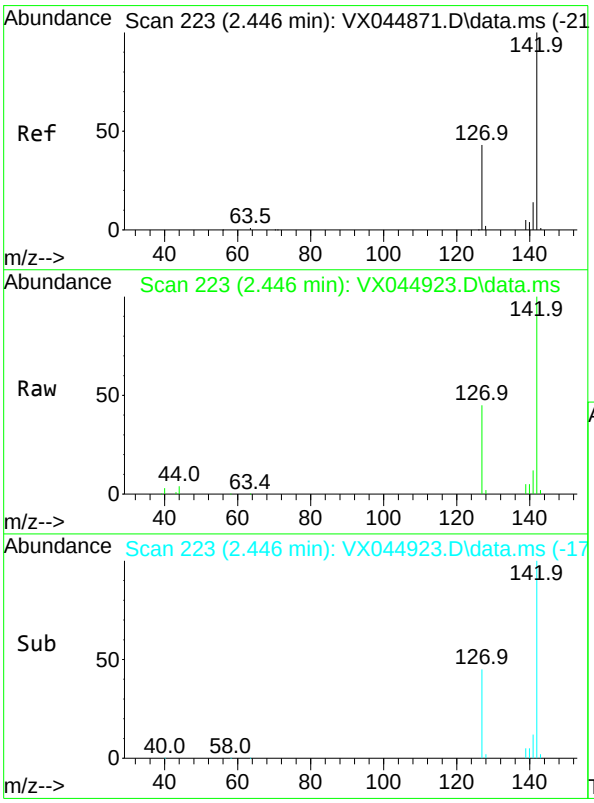
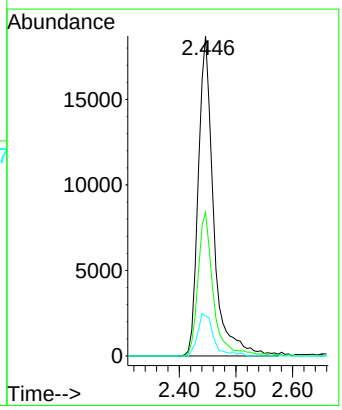


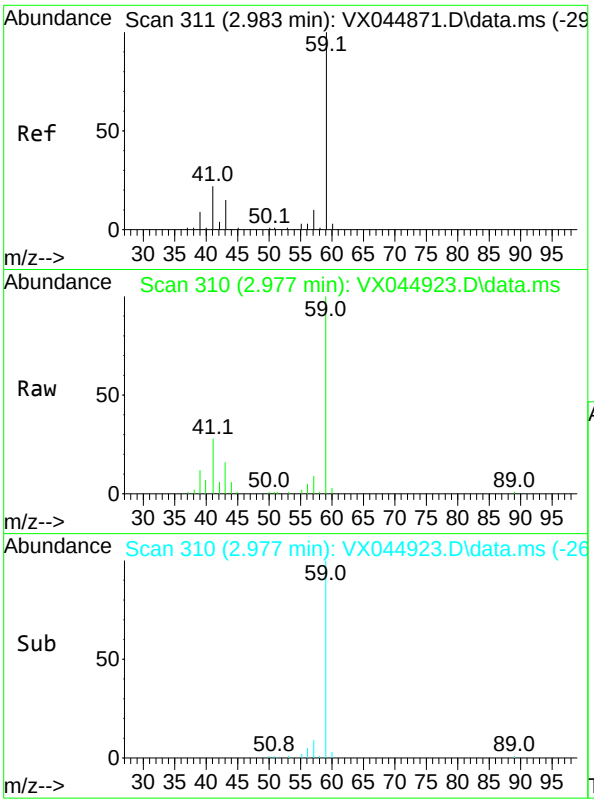


#10
Methyl Iodide
Concen: 19.301 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:142 Resp: 35166

Ion	Ratio	Lower	Upper
142	100		
127	44.7	34.3	51.5
141	13.9	11.4	17.2

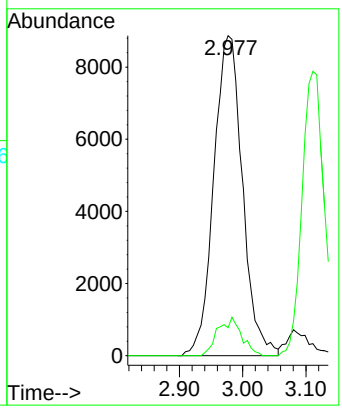




#11
Tert butyl alcohol
Concen: 92.390 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 59 Resp: 2791

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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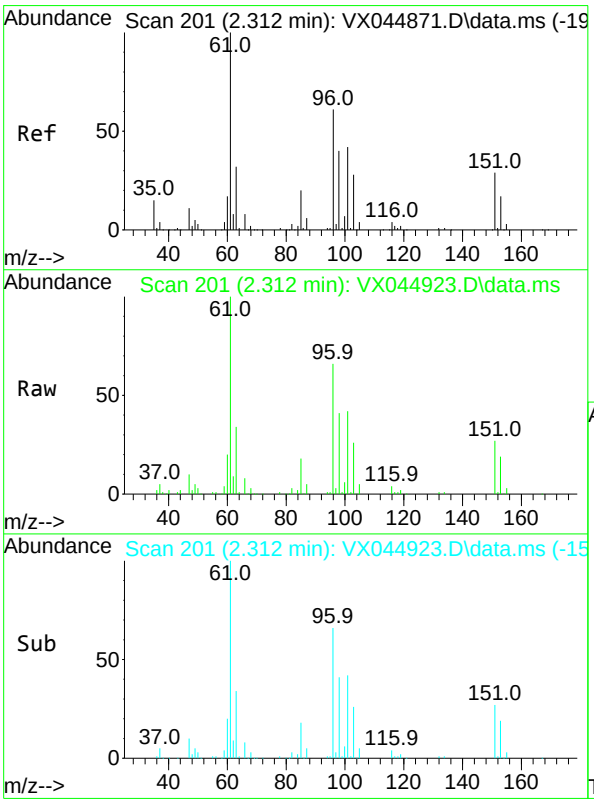
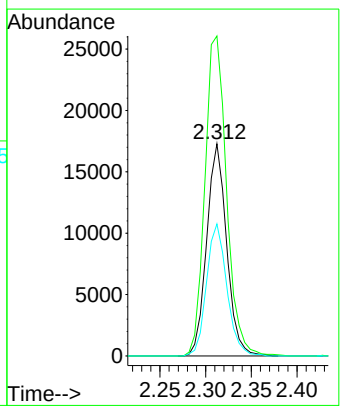
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

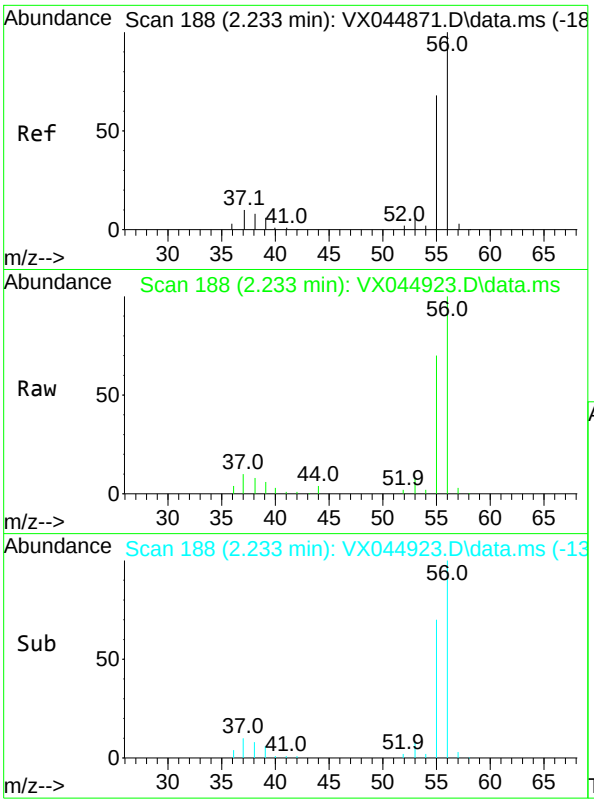


#12
1,1-Dichloroethene
Concen: 18.330 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 96 Resp: 26286

Ion	Ratio	Lower	Upper
96	100		
61	150.9	130.2	195.4
98	62.2	52.2	78.4

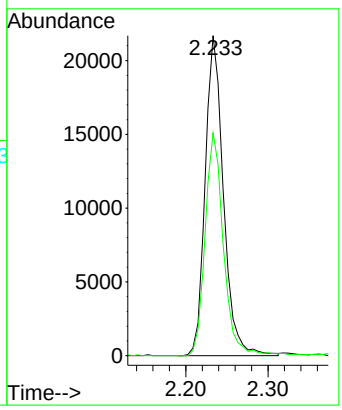




#13
Acrolein
Concen: 107.421 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 56 Resp: 3348

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5



Instrument :
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ClientSampleId :
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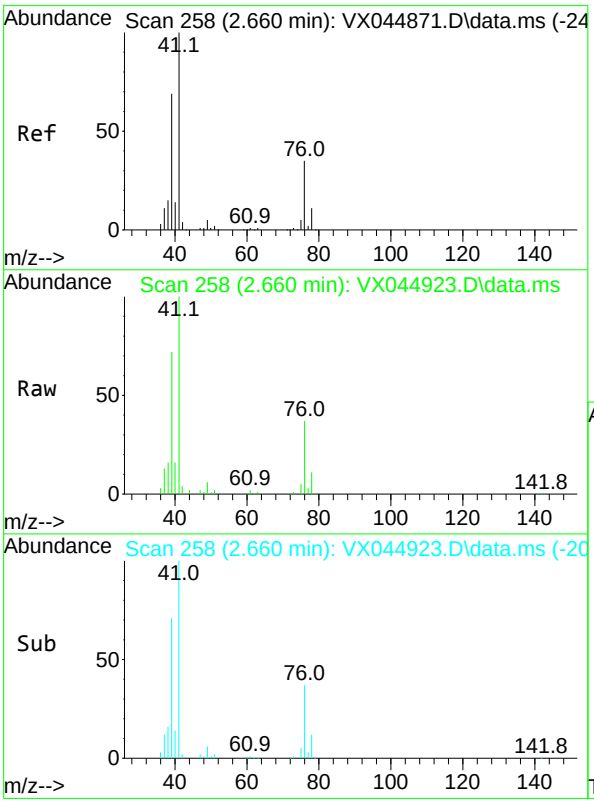
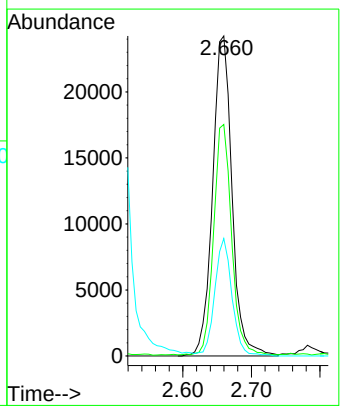
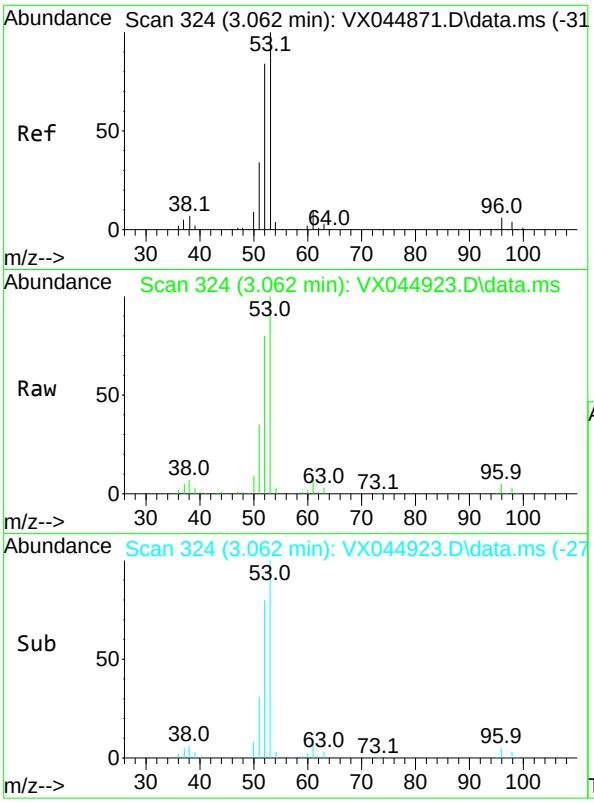


#14
Allyl chloride
Concen: 18.419 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 41 Resp: 47738

Ion	Ratio	Lower	Upper
41	100		
39	66.1	51.4	77.2
76	32.6	27.0	40.4

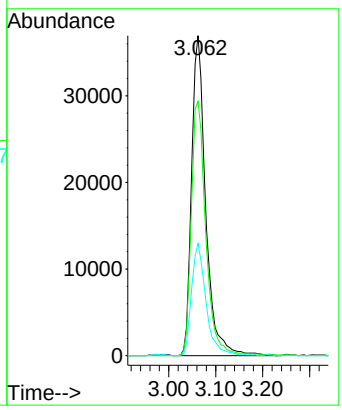




#15
Acrylonitrile
Concen: 96.028 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 53 Resp: 7746

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.0	97.6
51	36.1	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
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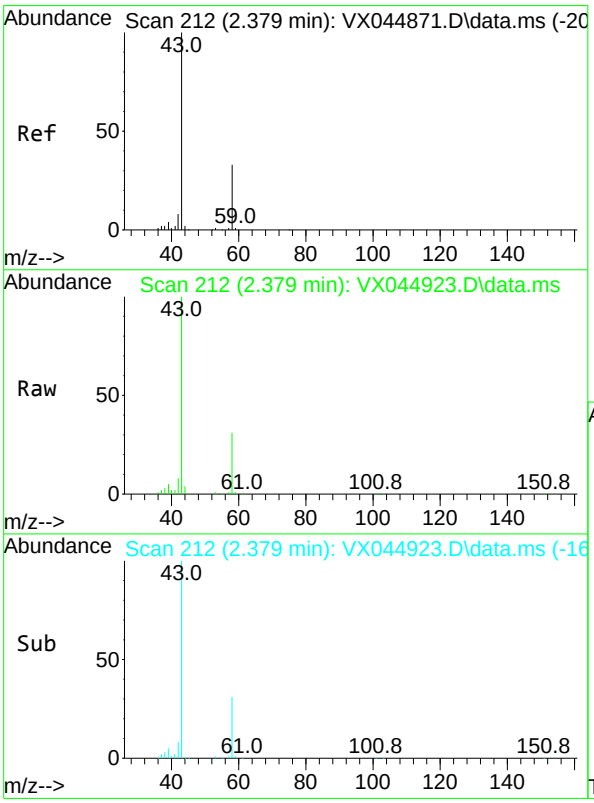
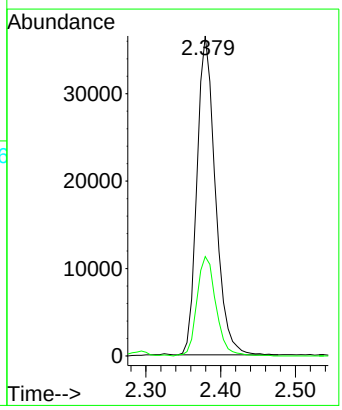
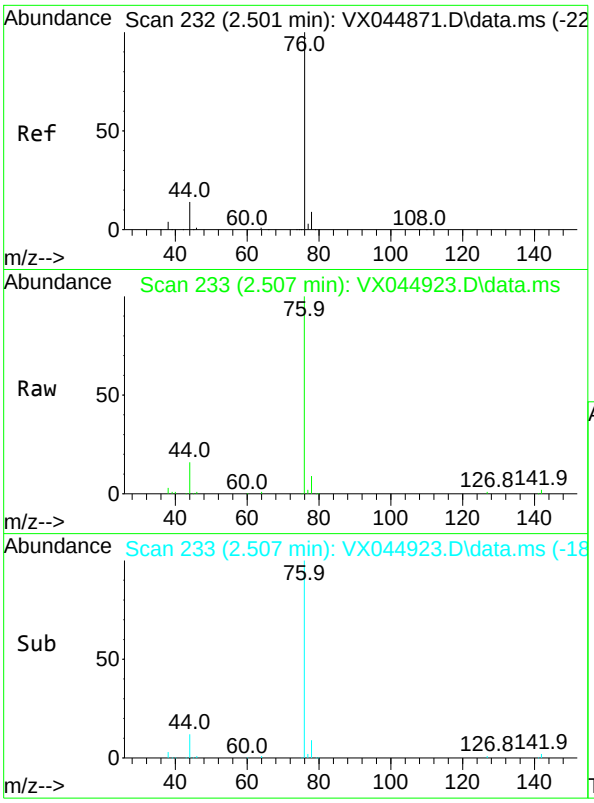


#16
Acetone
Concen: 95.211 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 62338

Ion	Ratio	Lower	Upper
43	100		
58	31.2	26.5	39.7

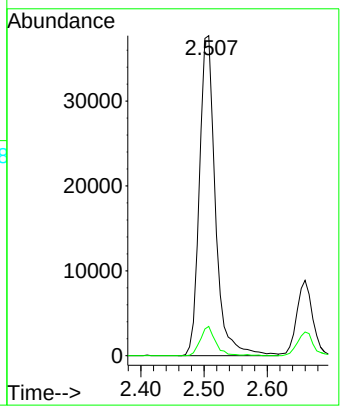




#17
Carbon Disulfide
Concen: 16.927 ug/l
RT: 2.507 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 76 Resp: 6656

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
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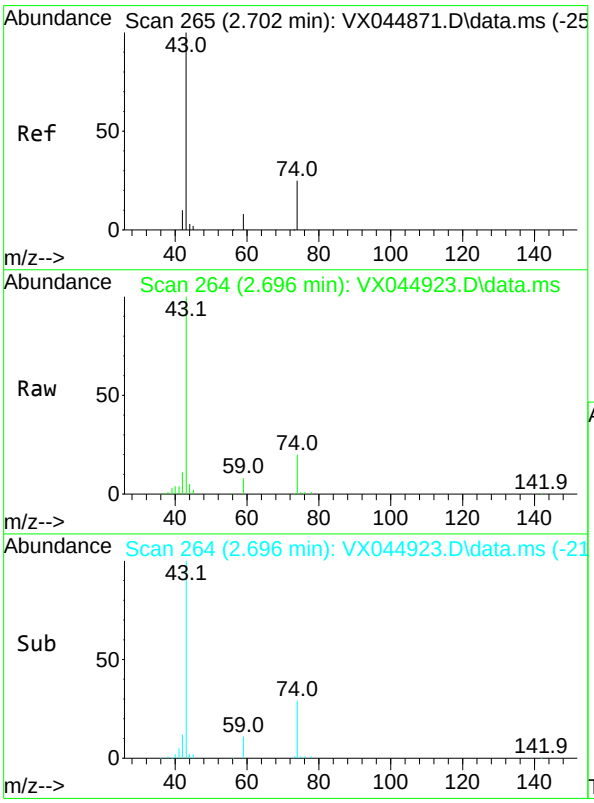
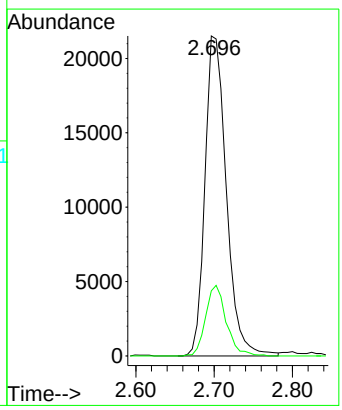
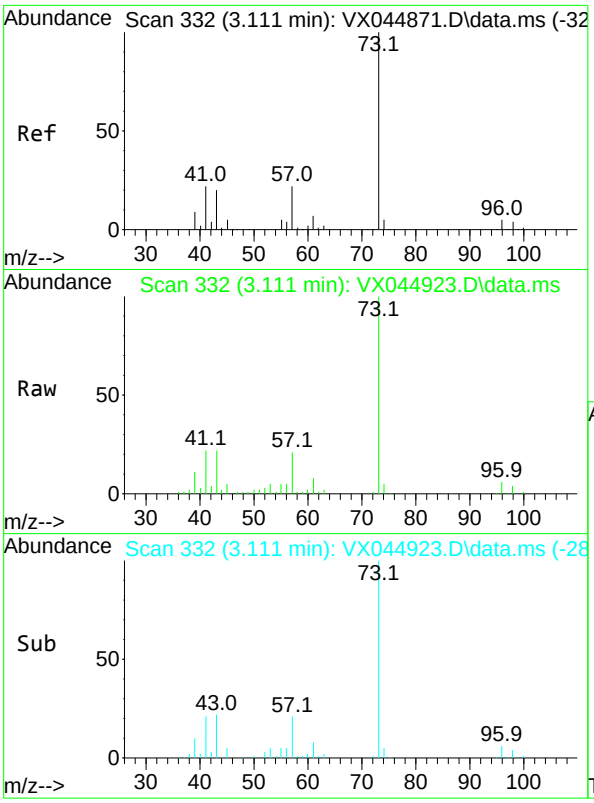


#18
Methyl Acetate
Concen: 19.757 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 40821

Ion	Ratio	Lower	Upper
43	100		
74	21.3	18.9	28.3

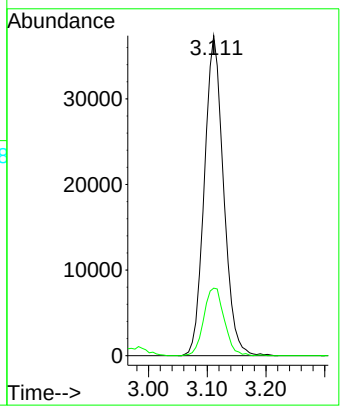




#19
Methyl tert-butyl Ether
Concen: 18.609 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 73 Resp: 8490

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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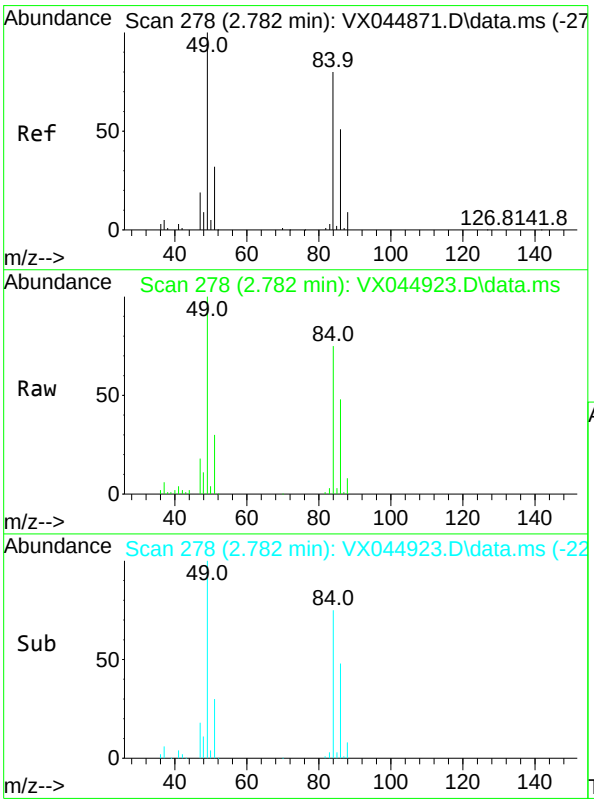
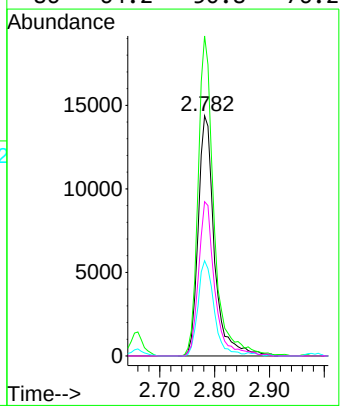
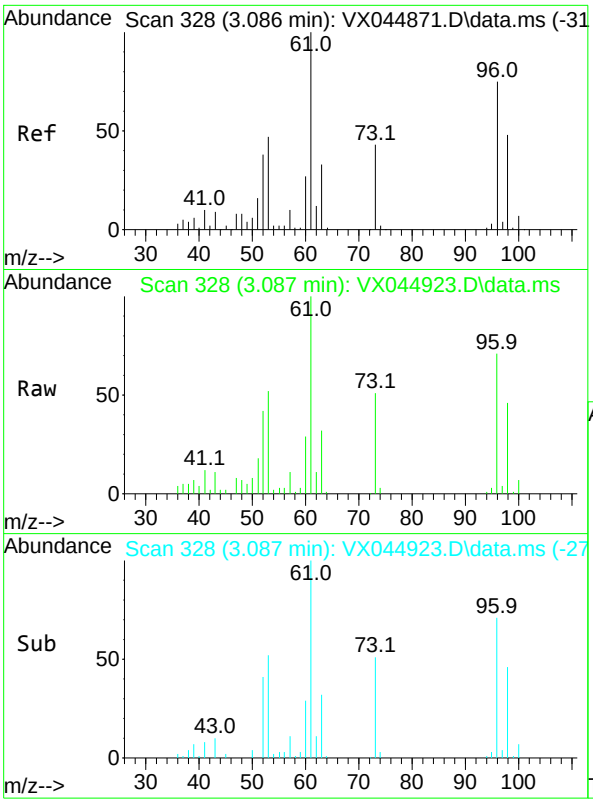


#20
Methylene Chloride
Concen: 18.375 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 84 Resp: 29468

Ion	Ratio	Lower	Upper
84	100		
49	133.2	100.1	150.1
51	39.6	31.7	47.5
86	64.2	50.8	76.2

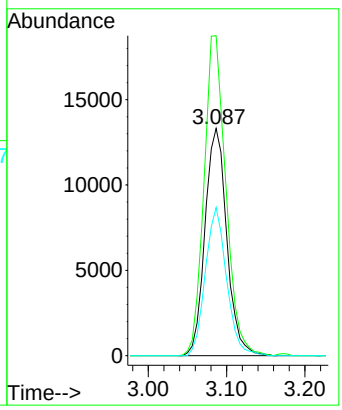




#21
trans-1,2-Dichloroethene
Concen: 18.233 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 96 Resp: 2573

Ion	Ratio	Lower	Upper
96	100		
61	140.8	106.0	159.0
98	65.2	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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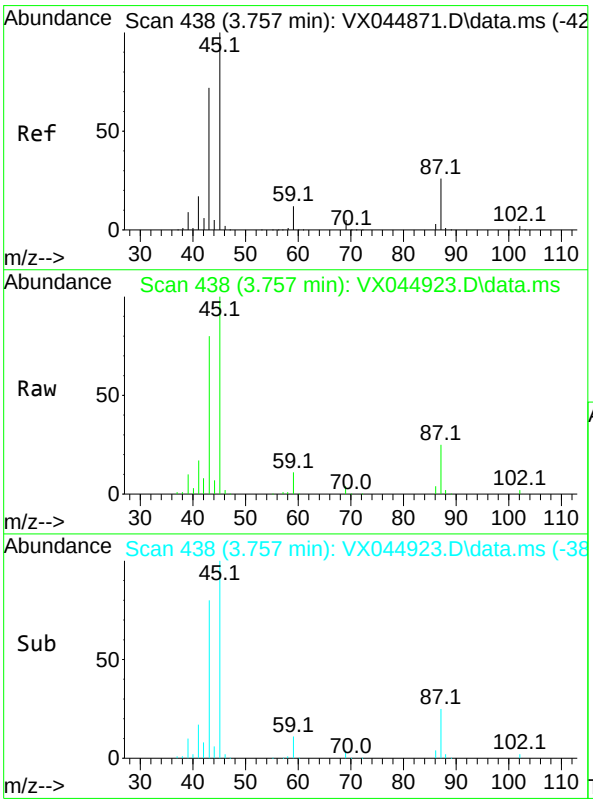
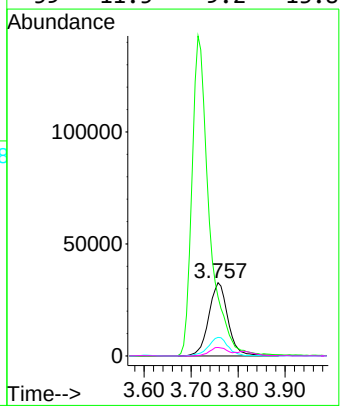
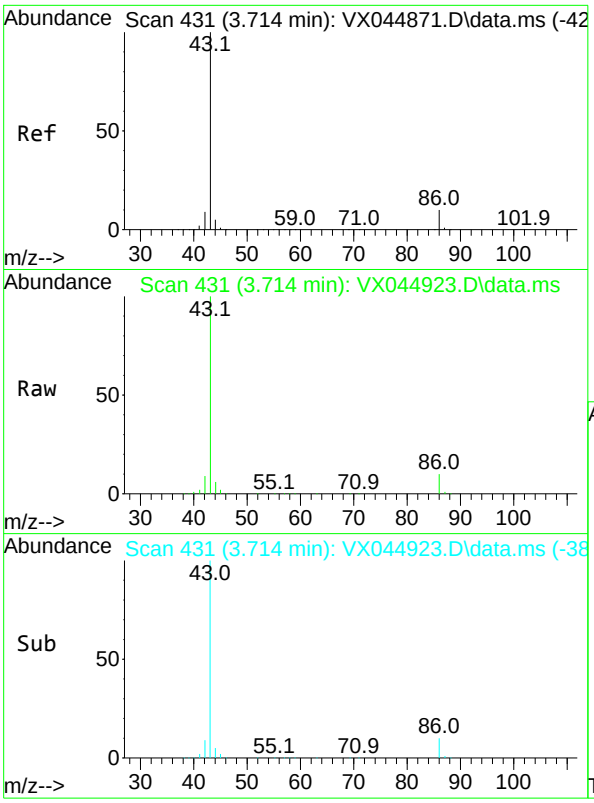


#22
Diisopropyl ether
Concen: 18.921 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 45 Resp: 92775

Ion	Ratio	Lower	Upper
45	100		
43	80.1	58.0	87.0
87	25.3	20.7	31.1
59	11.5	9.2	13.8





#23
Vinyl Acetate
Concen: 91.811 ug/l
RT: 3.714 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 36700

Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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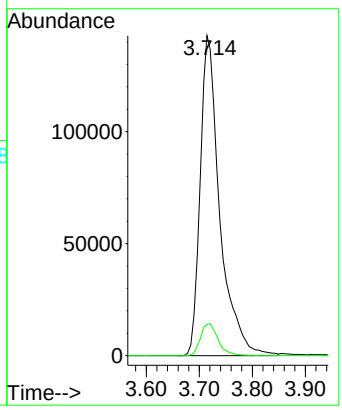
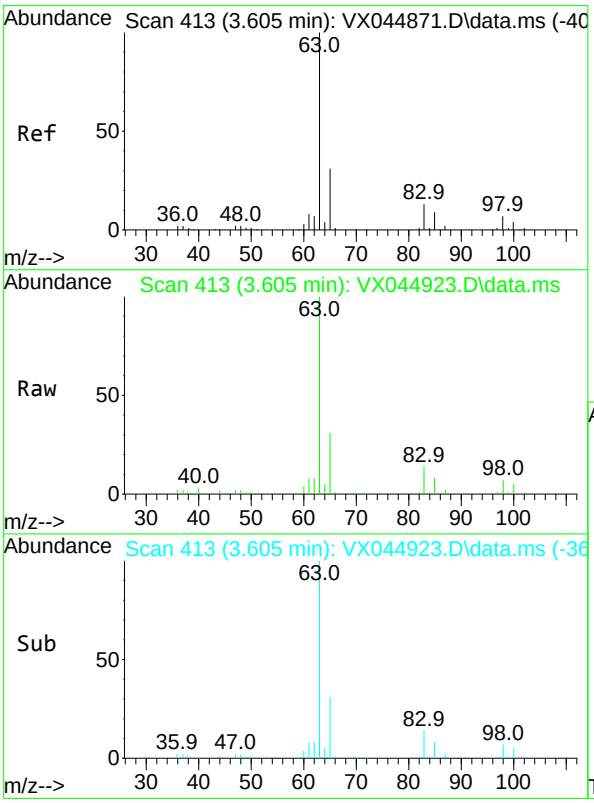
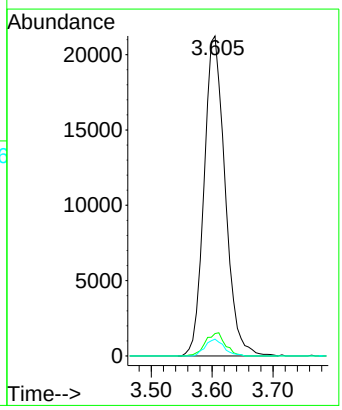


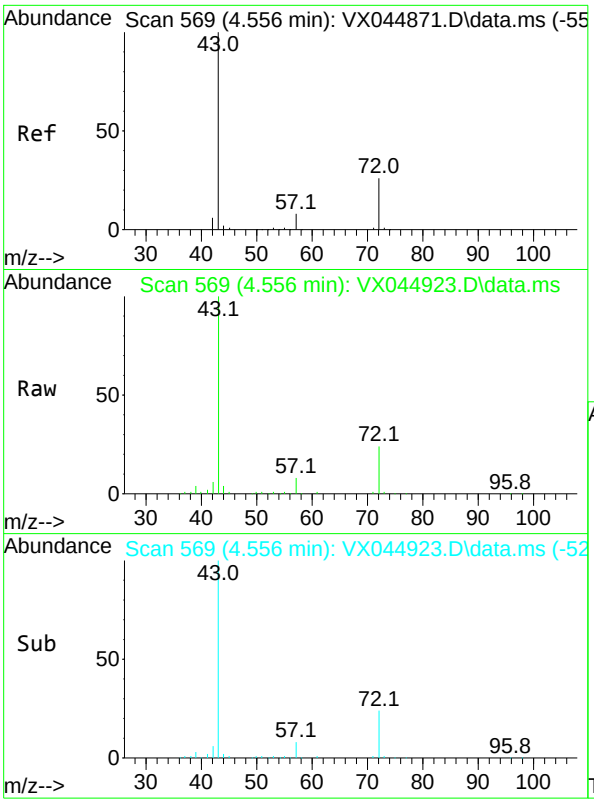


#24
1,1-Dichloroethane
Concen: 18.581 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 63 Resp: 50977

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	5.3	2.1	6.5

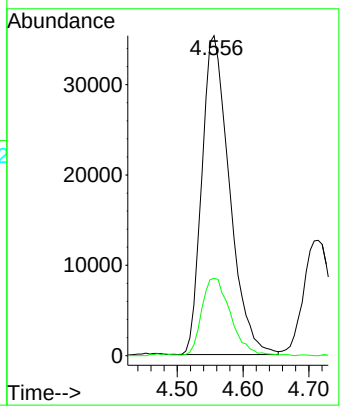




#25
2-Butanone
Concen: 97.054 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 10318

Ion	Ratio	Lower	Upper
43	100		
72	24.0	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
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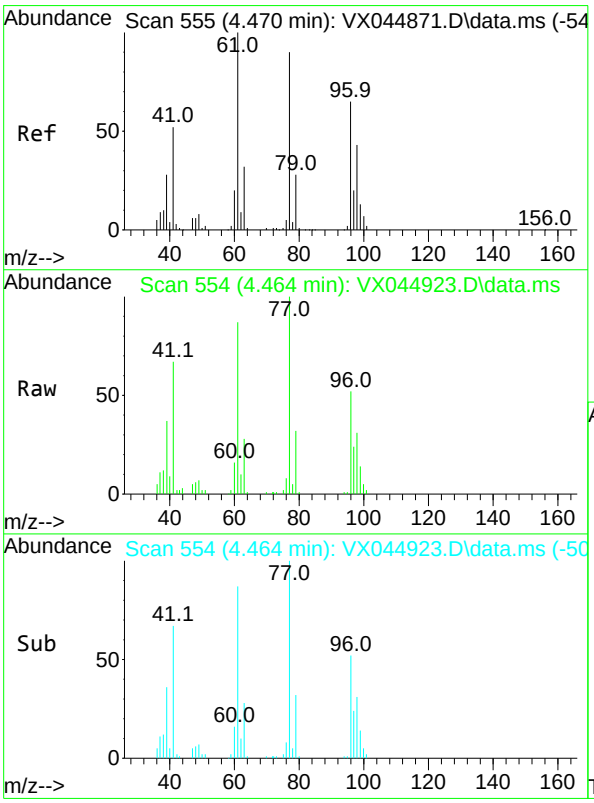
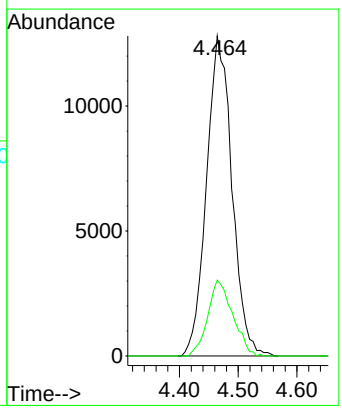
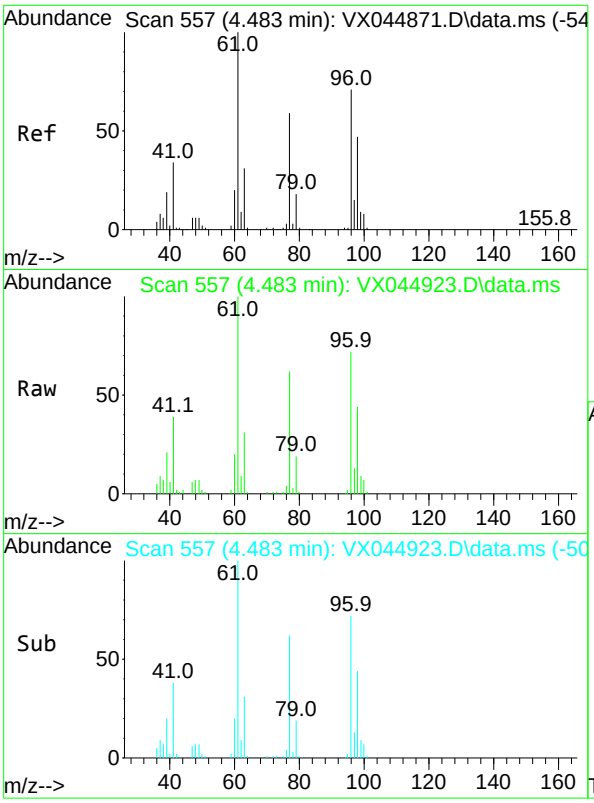


#26
2,2-Dichloropropane
Concen: 17.734 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 77 Resp: 38585

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.8	35.3

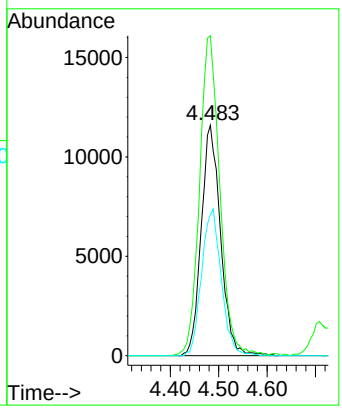




#27
cis-1,2-Dichloroethene
Concen: 18.972 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 96 Resp: 3216

Ion	Ratio	Lower	Upper
96	100		
61	145.7	0.0	294.0
98	64.8	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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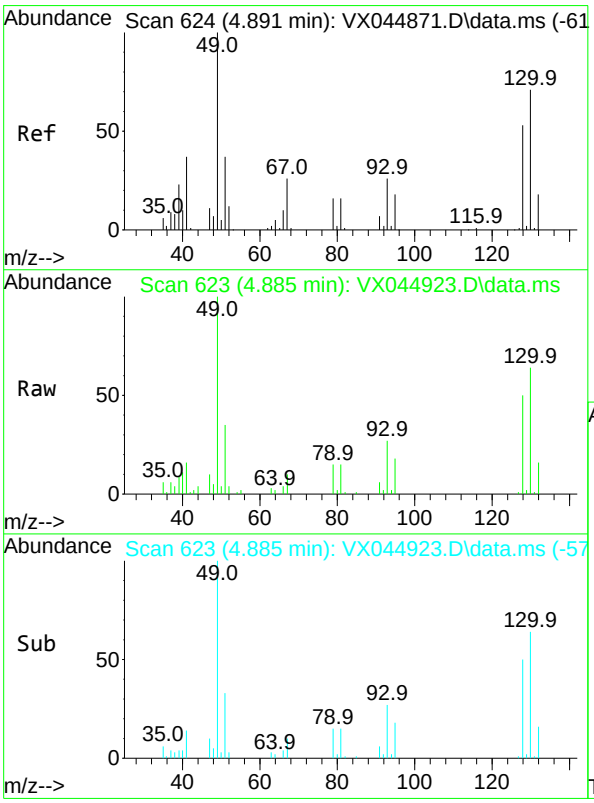
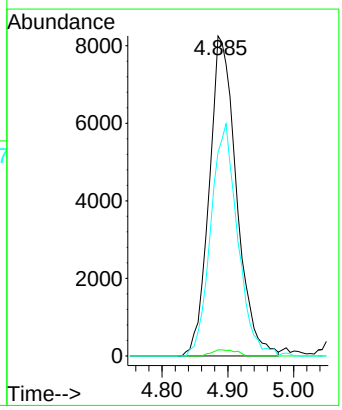
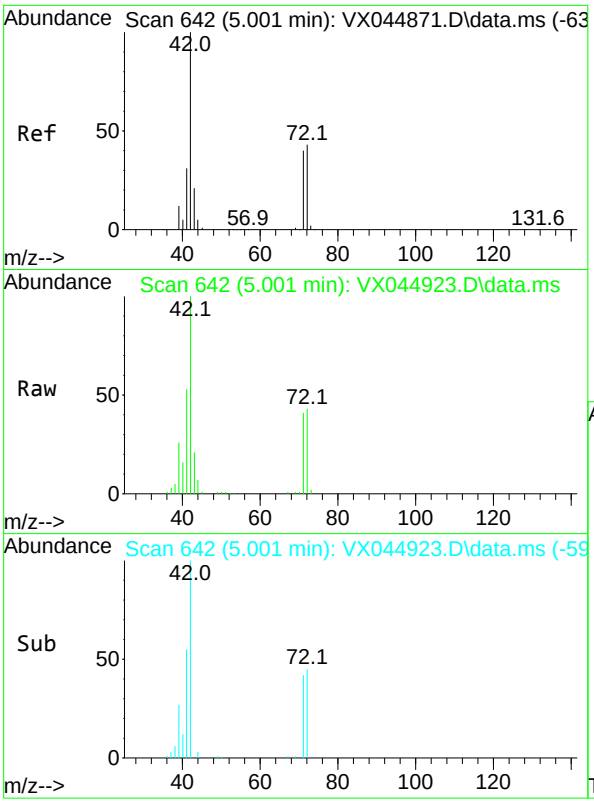


#28
Bromochloromethane
Concen: 18.042 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 49 Resp: 23788

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	71.6	56.7	85.1

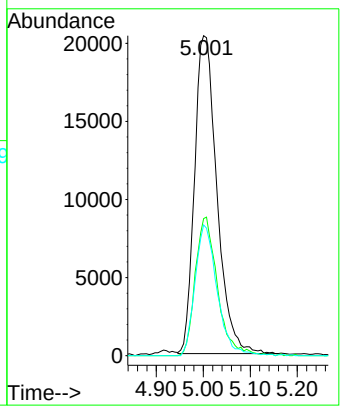




#29
Tetrahydrofuran
Concen: 95.643 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 42 Resp: 6752

Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.0	52.4
71	40.5	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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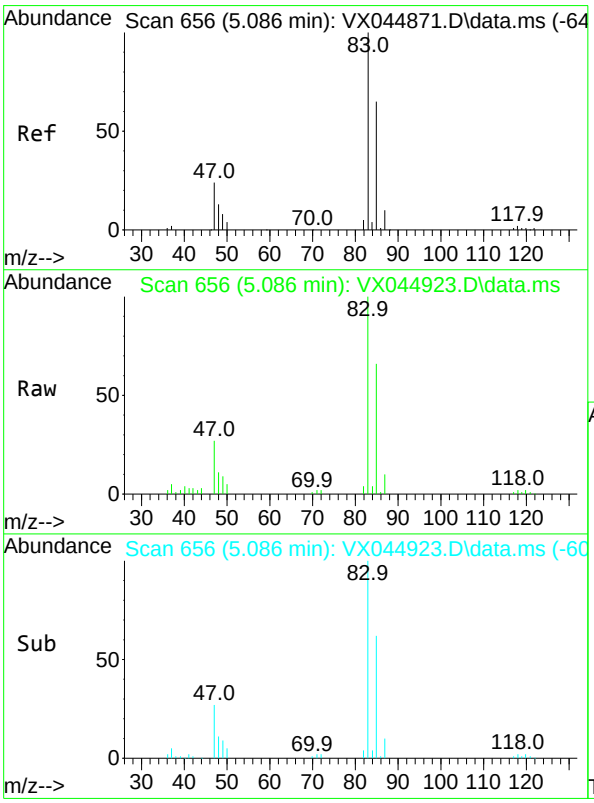
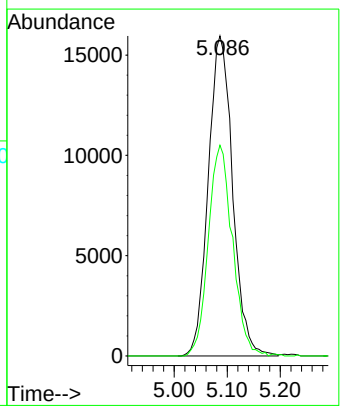
Supervised By :Mahesh Dadoda 02/14/2025

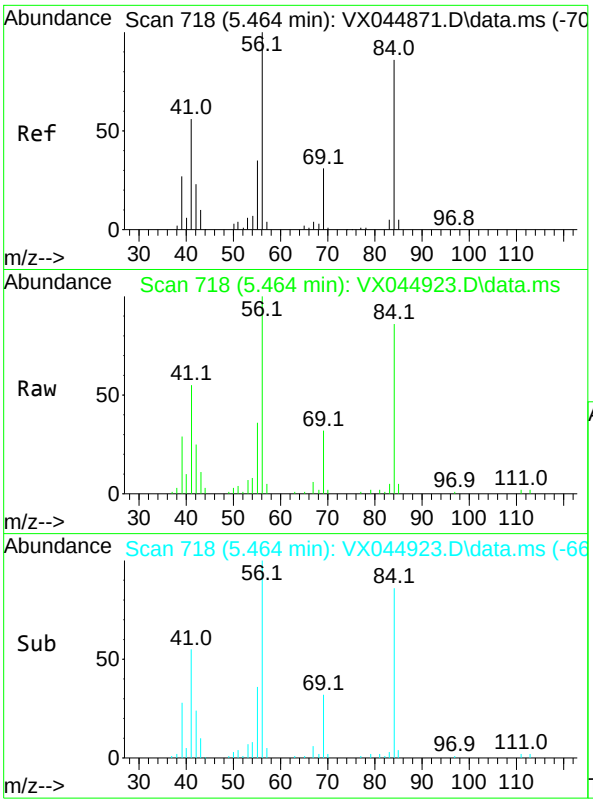


#30
Chloroform
Concen: 19.103 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 83 Resp: 50826

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.1	78.1

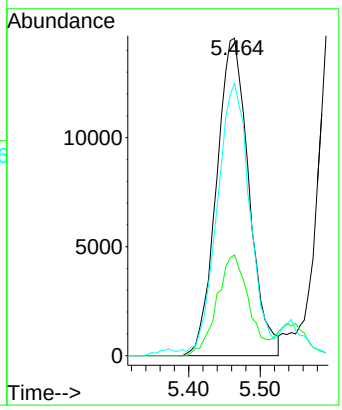




#31
Cyclohexane
Concen: 18.126 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 56 Resp: 4584

Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.4	36.6
84	84.5	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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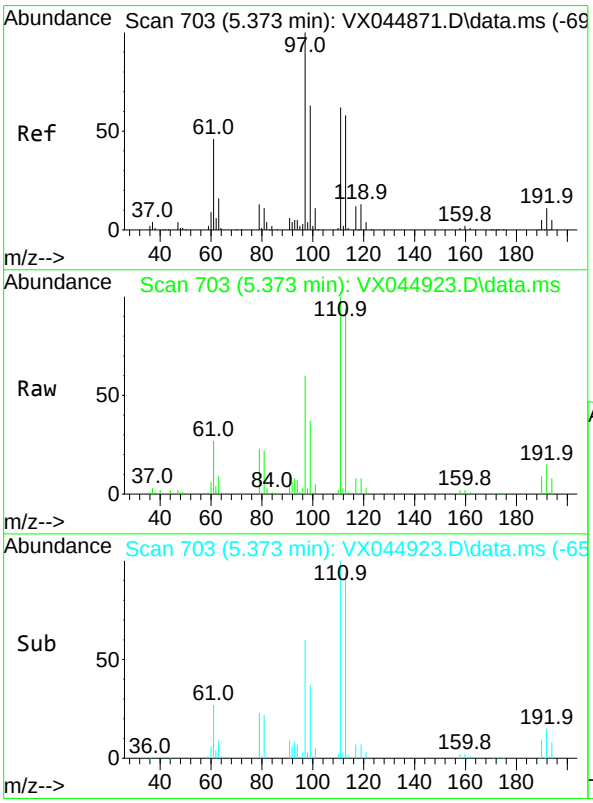
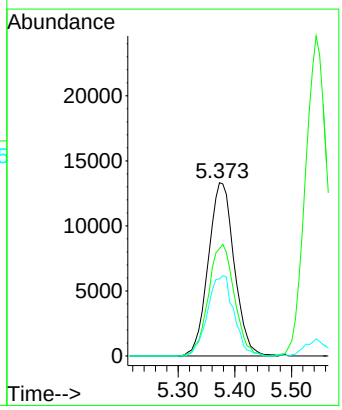
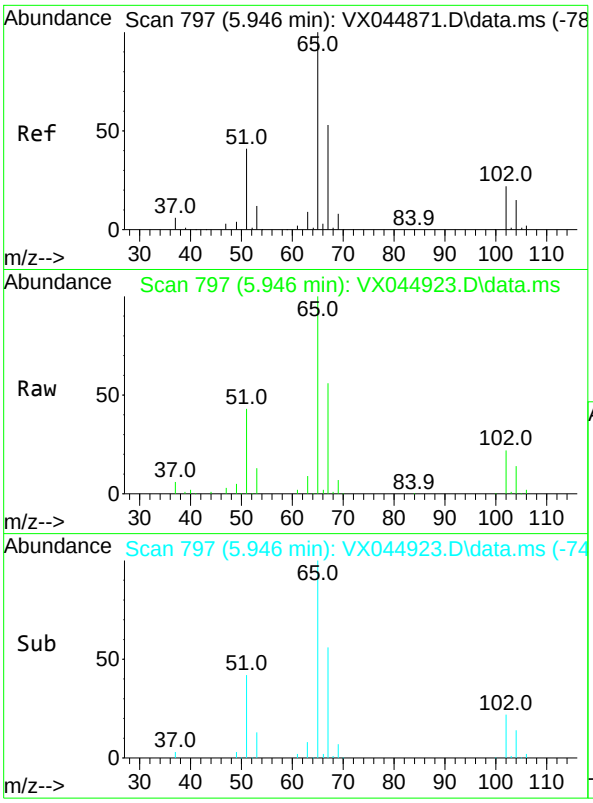


#32
1,1,1-Trichloroethane
Concen: 18.753 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 97 Resp: 42322

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	46.7	36.6	55.0

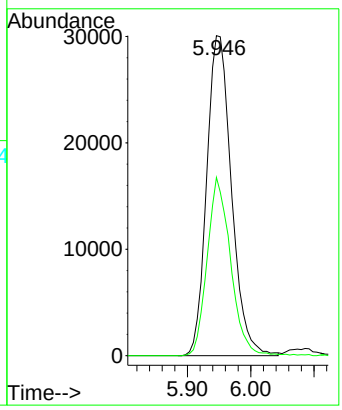




#33
1,2-Dichloroethane-d4
Concen: 50.209 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 65 Resp: 8177

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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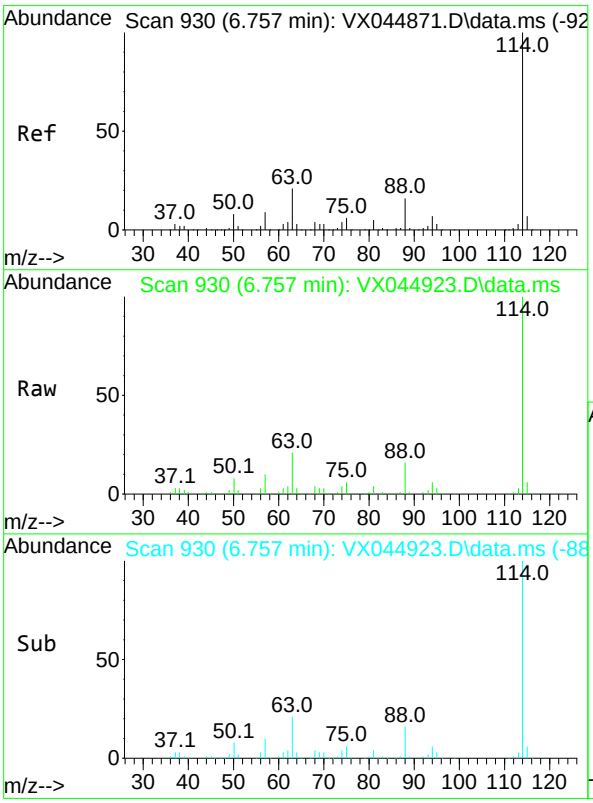
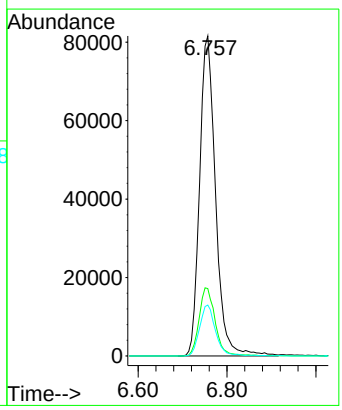
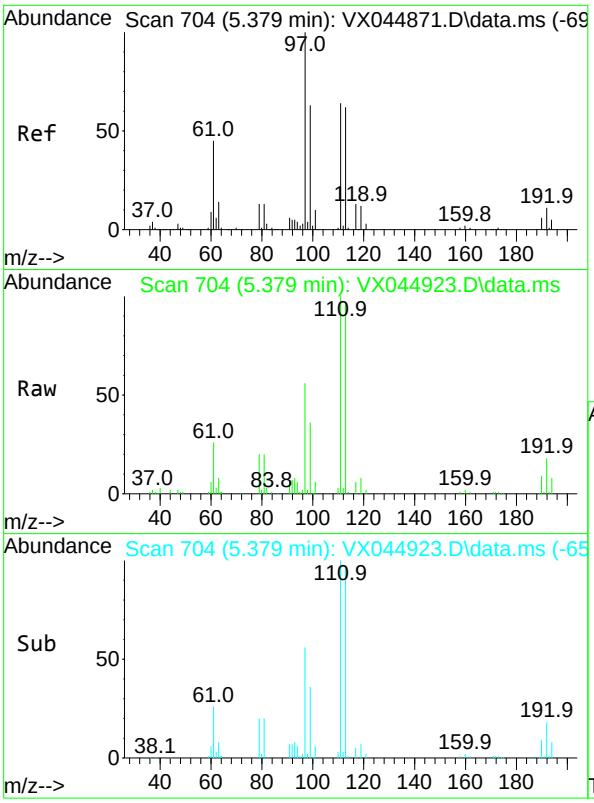


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:114 Resp: 204350

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.4
88	15.9	0.0	31.4

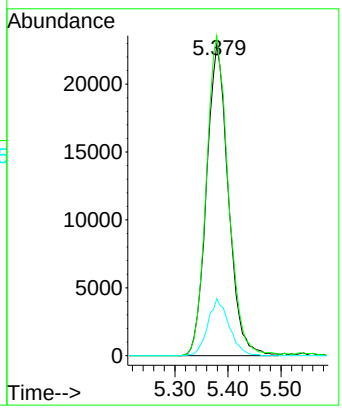




#35
Dibromofluoromethane
Concen: 49.362 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:113 Resp: 6558

Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.5	125.3
192	17.8	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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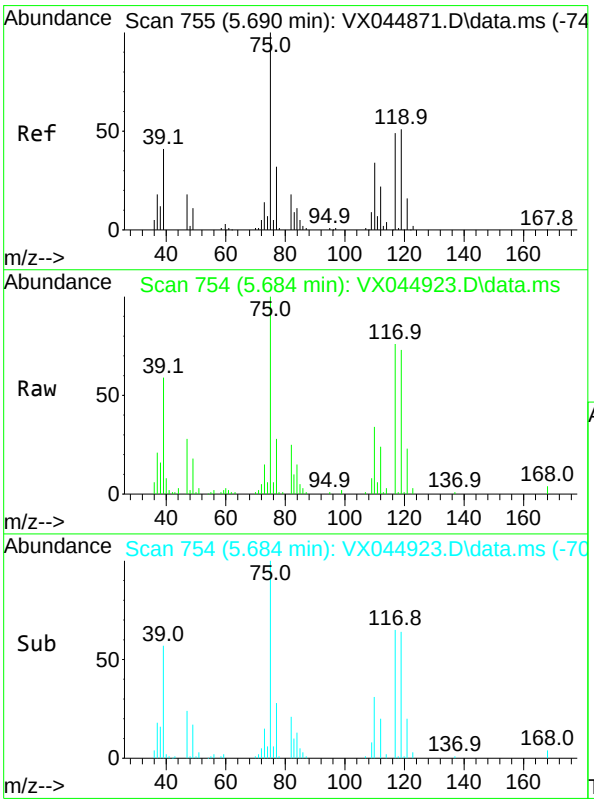
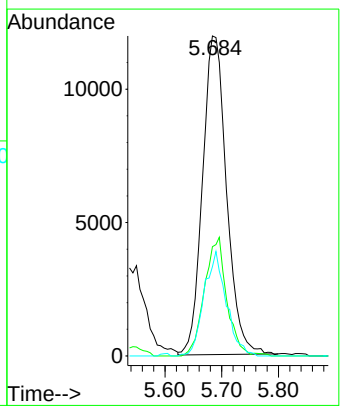
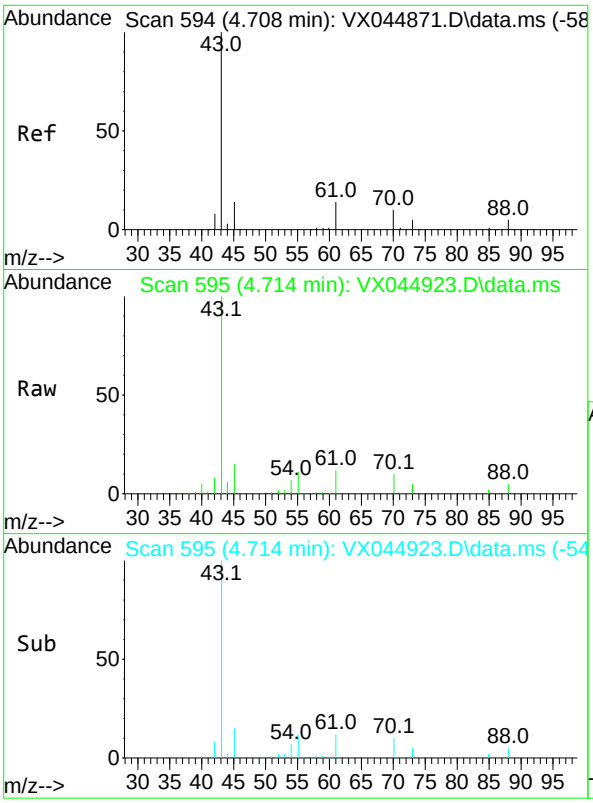


#36
1,1-Dichloropropene
Concen: 18.352 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 35178

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.5	24.6	37.0

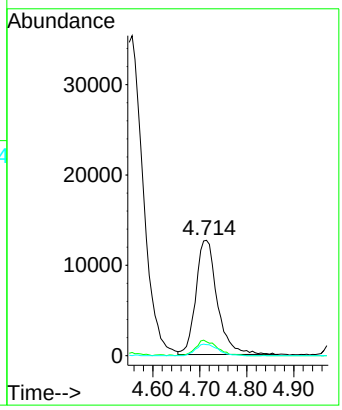




#37
Ethyl Acetate
Concen: 18.759 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 3999

Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.0	16.4
70	10.4	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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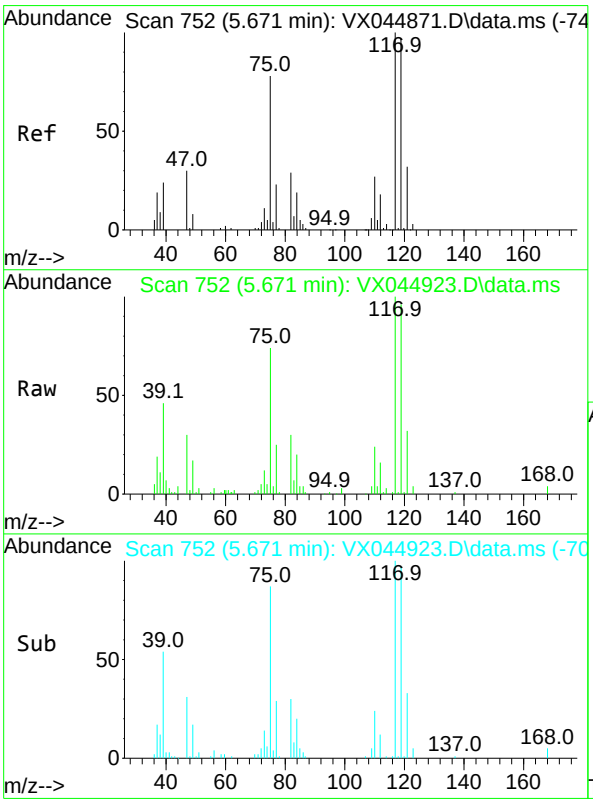
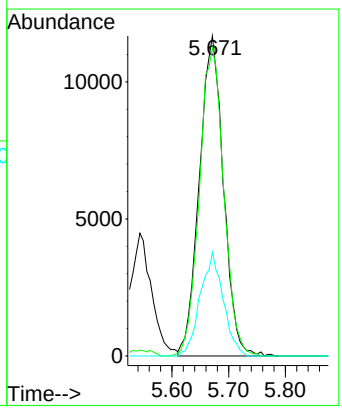
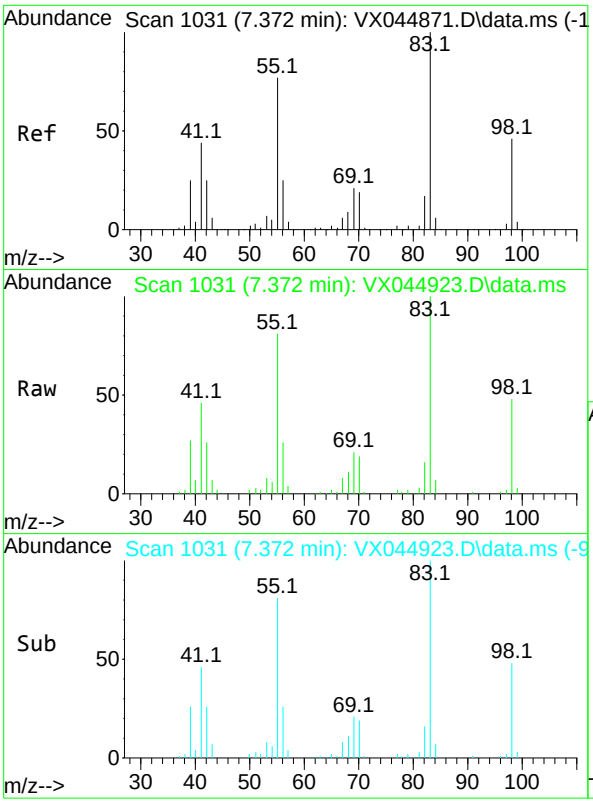


#38
Carbon Tetrachloride
Concen: 18.357 ug/l
RT: 5.671 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:117 Resp: 34481

Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.5	116.3
121	32.4	25.6	38.4

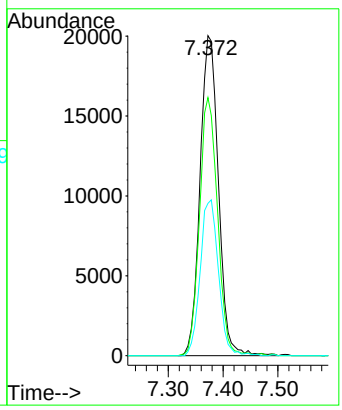




#39
Methylcyclohexane
Concen: 18.791 ug/l
RT: 7.372 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 83 Resp: 4656(

Ion	Ratio	Lower	Upper
83	100		
55	80.7	61.3	91.9
98	47.6	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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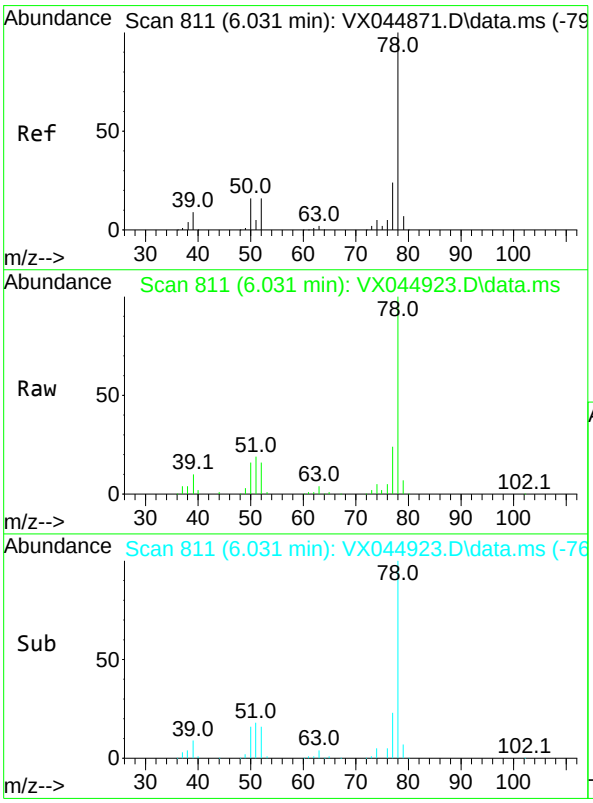
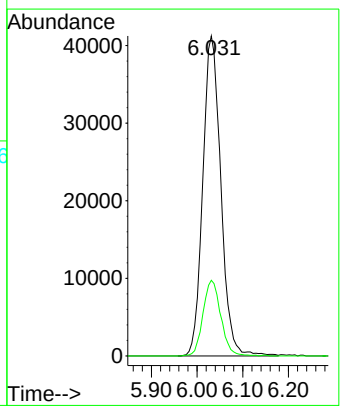
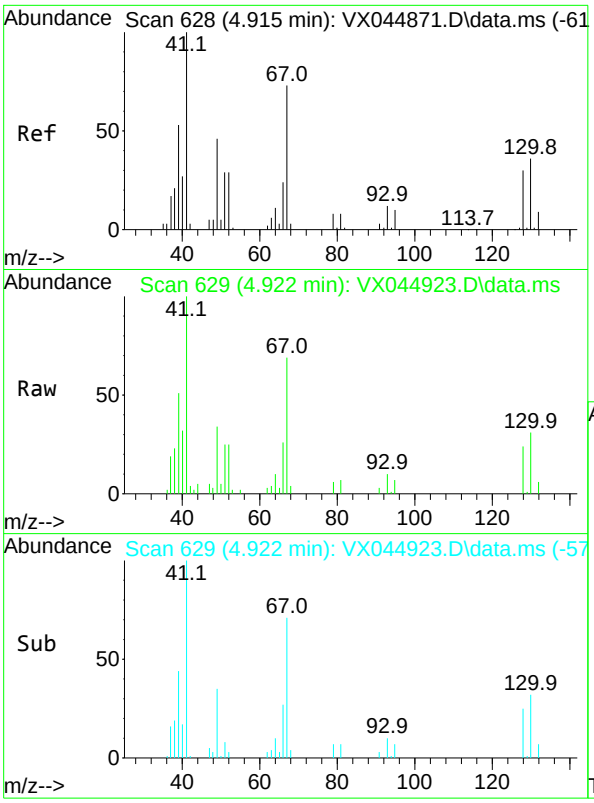


#40
Benzene
Concen: 18.922 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 78 Resp: 113256

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6

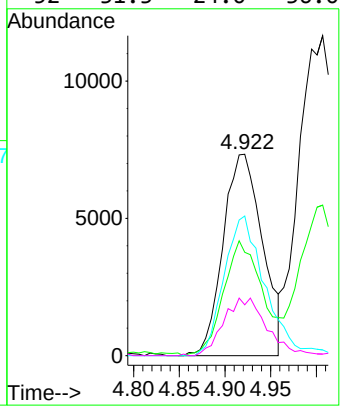




#41
Methacrylonitrile
Concen: 19.301 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 41 Resp: 2202

Ion	Ratio	Lower	Upper
41	100		
39	57.9	43.1	64.7
67	72.5	57.0	85.6
52	31.3	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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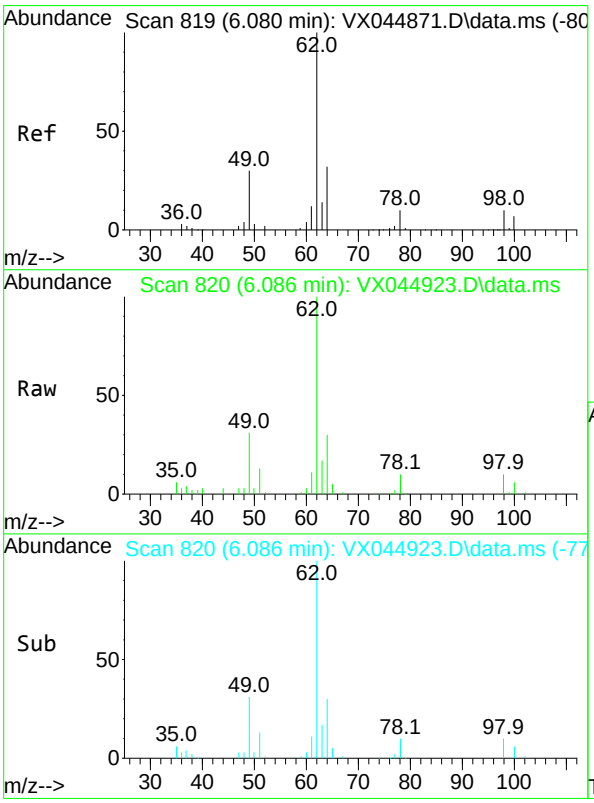
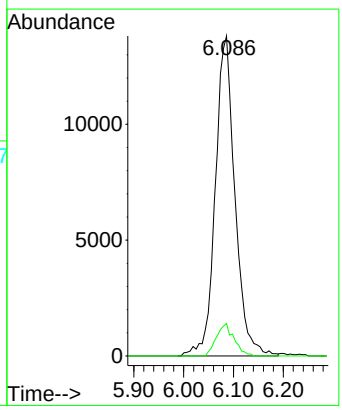
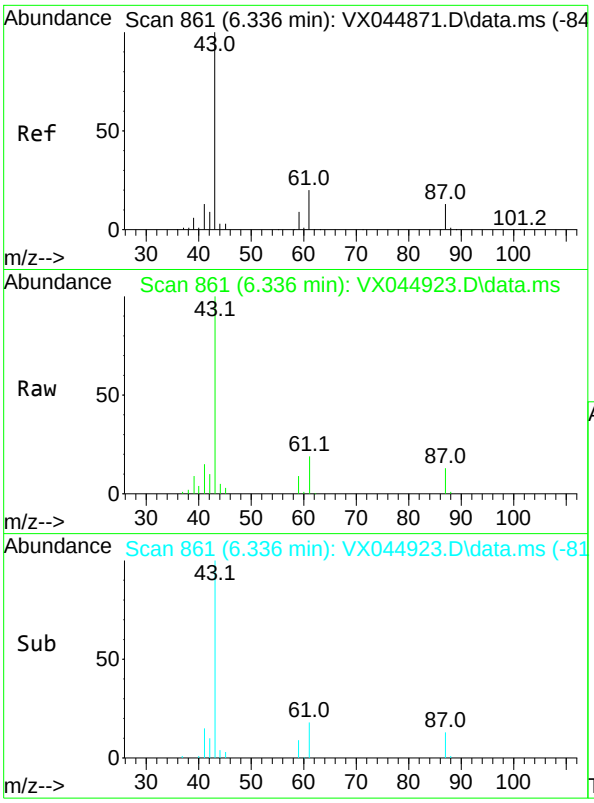


#42
1,2-Dichloroethane
Concen: 19.811 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 62 Resp: 37792

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	19.4

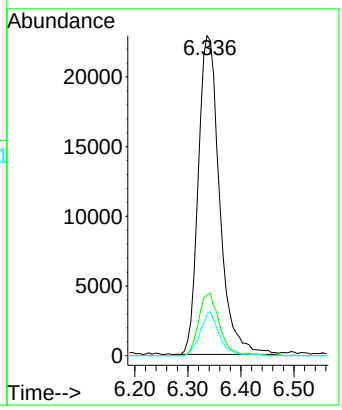




#43
Isopropyl Acetate
Concen: 18.459 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 6355

Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.8	23.8
87	12.3	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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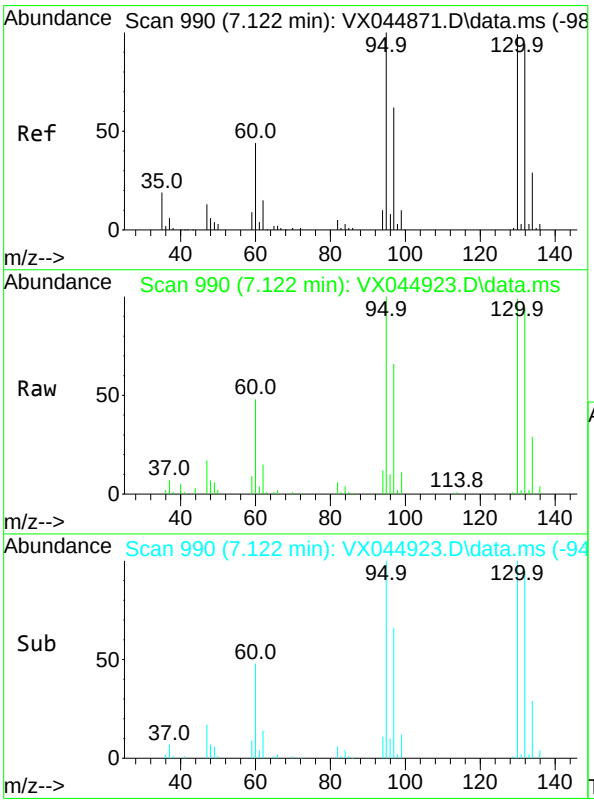
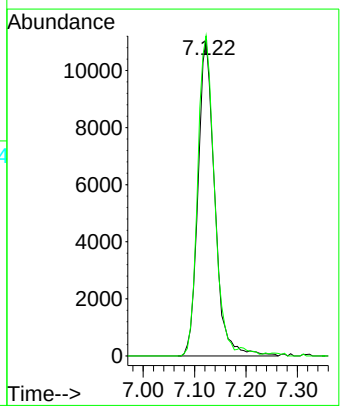
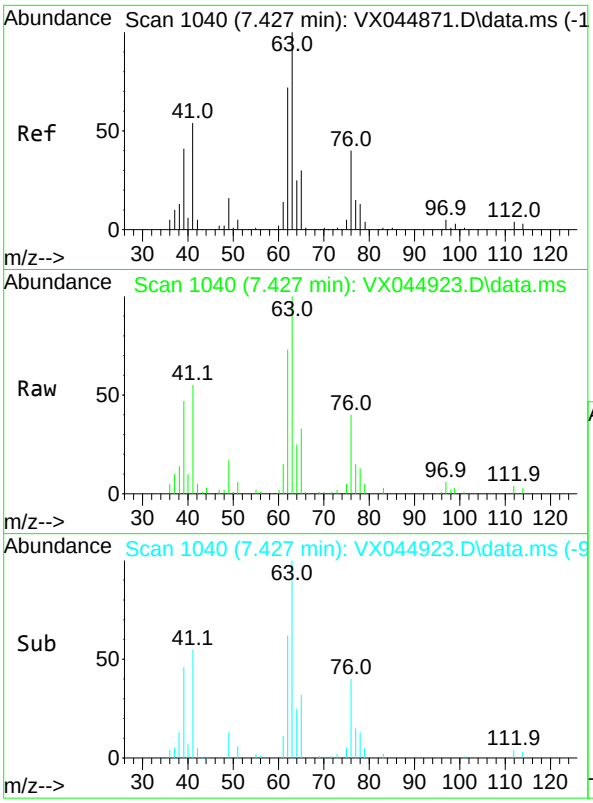


#44
Trichloroethene
Concen: 18.239 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:130 Resp: 24953

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	202.4

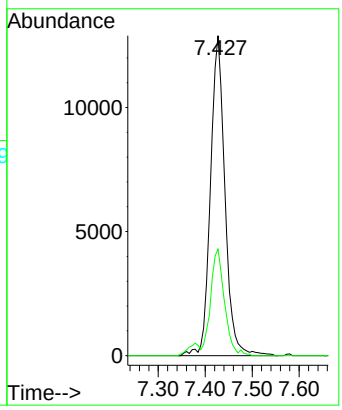




#45
1,2-Dichloropropane
Concen: 18.543 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 63 Resp: 2761

Ion	Ratio	Lower	Upper
63	100		
65	33.3	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations APPROVED

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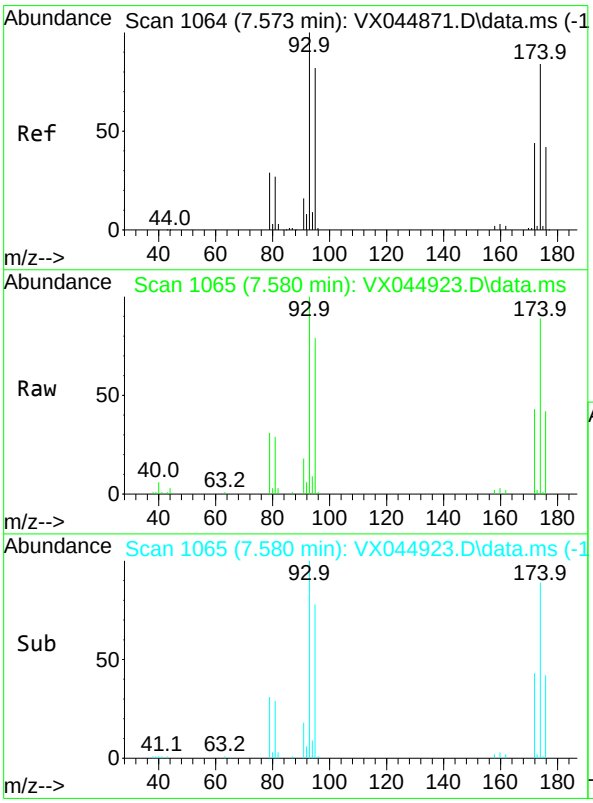
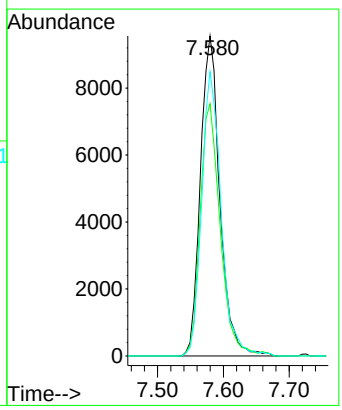
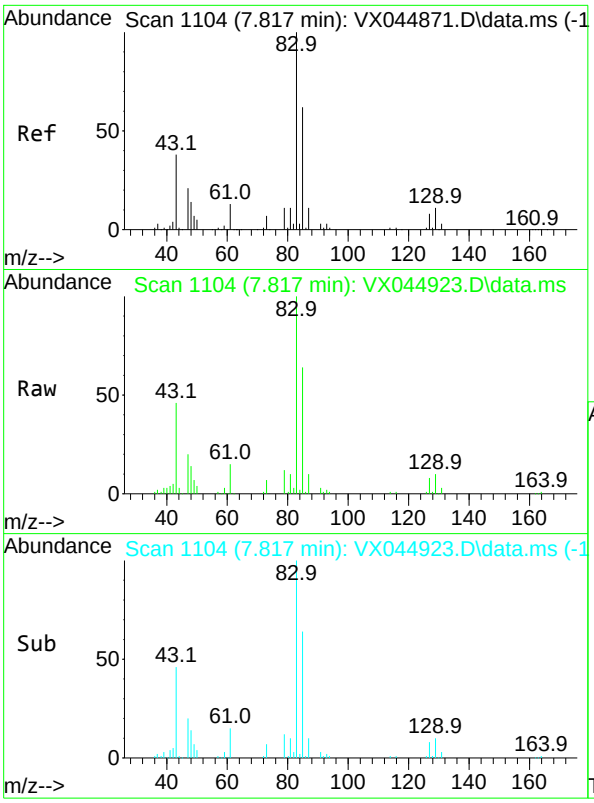


#46
Dibromomethane
Concen: 19.049 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 93 Resp: 19672

Ion	Ratio	Lower	Upper
93	100		
95	80.6	66.2	99.4
174	88.7	69.9	104.9

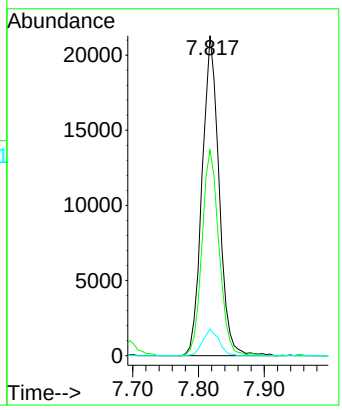




#47
Bromodichloromethane
Concen: 19.124 ug/l
RT: 7.817 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 83 Resp: 3824

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.0	75.0
127	8.3	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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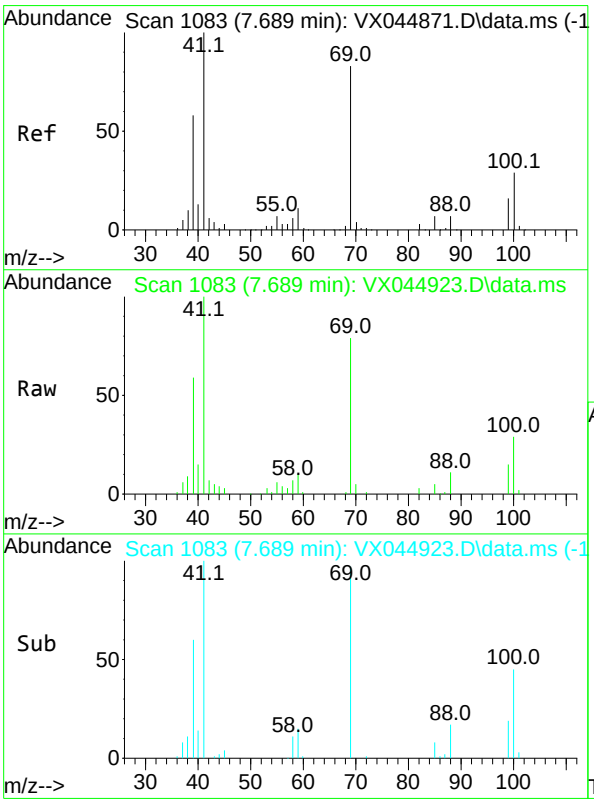
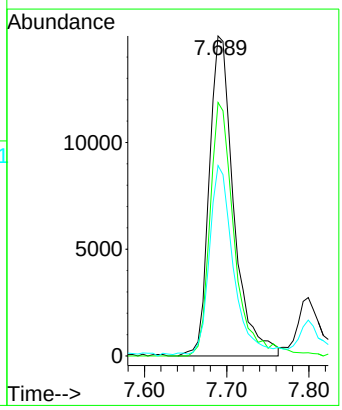
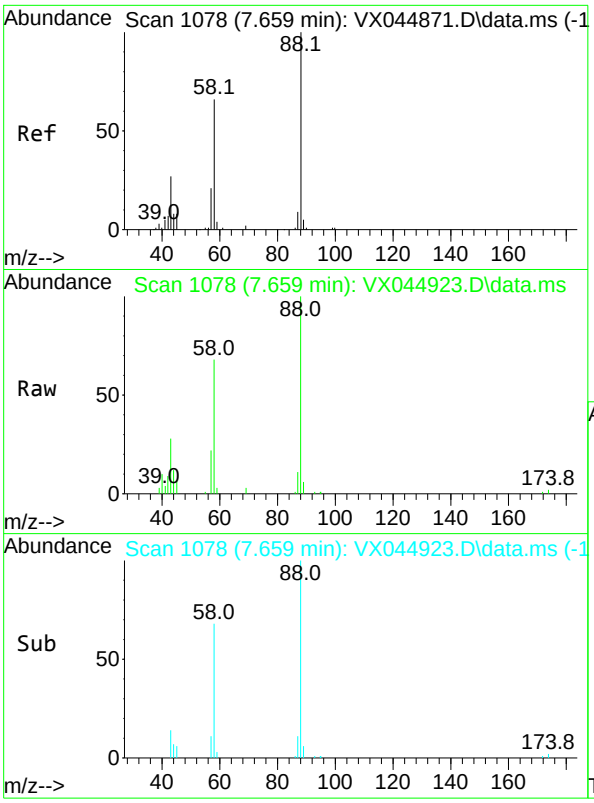


#48
Methyl methacrylate
Concen: 19.106 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 41 Resp: 31017

Ion	Ratio	Lower	Upper
41	100		
69	79.0	65.8	98.8
39	59.8	46.4	69.6

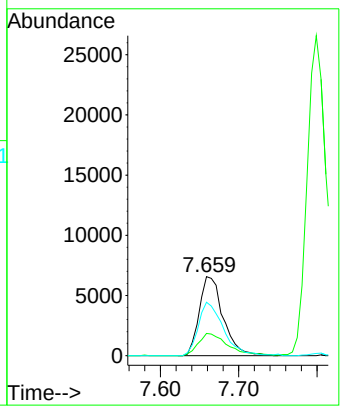




#49
1,4-Dioxane
Concen: 399.801 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 88 Resp: 1392

Ion	Ratio	Lower	Upper
88	100		
43	34.8	26.6	39.8
58	70.8	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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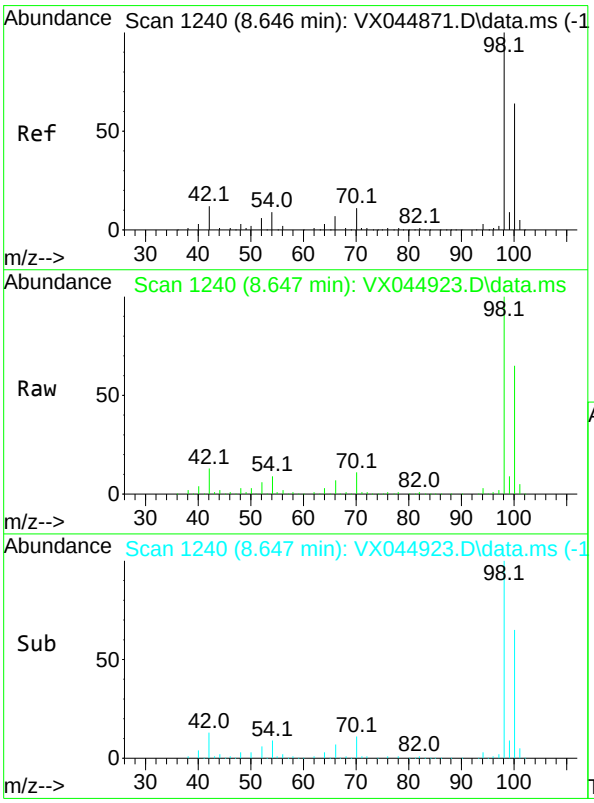
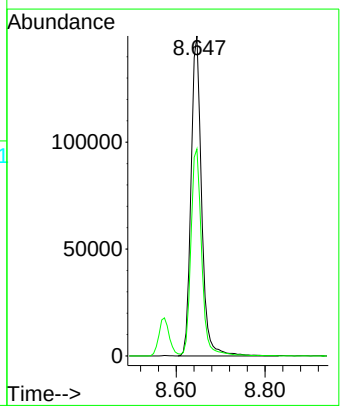
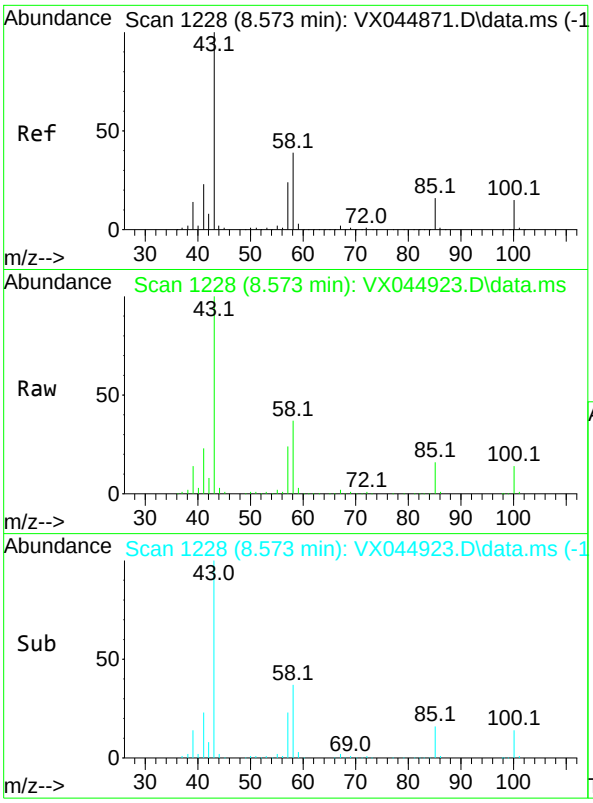


#50
Toluene-d8
Concen: 49.174 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 98 Resp: 247053

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.7	79.1

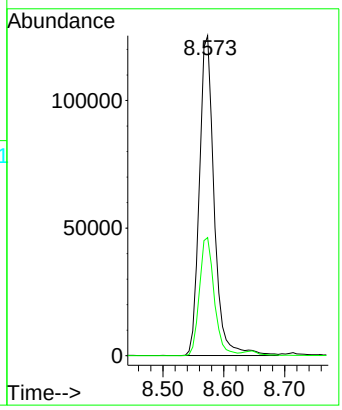




#51
4-Methyl-2-Pentanone
Concen: 101.236 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 21189

Ion	Ratio	Lower	Upper
43	100		
58	37.0	30.8	46.2



Instrument :
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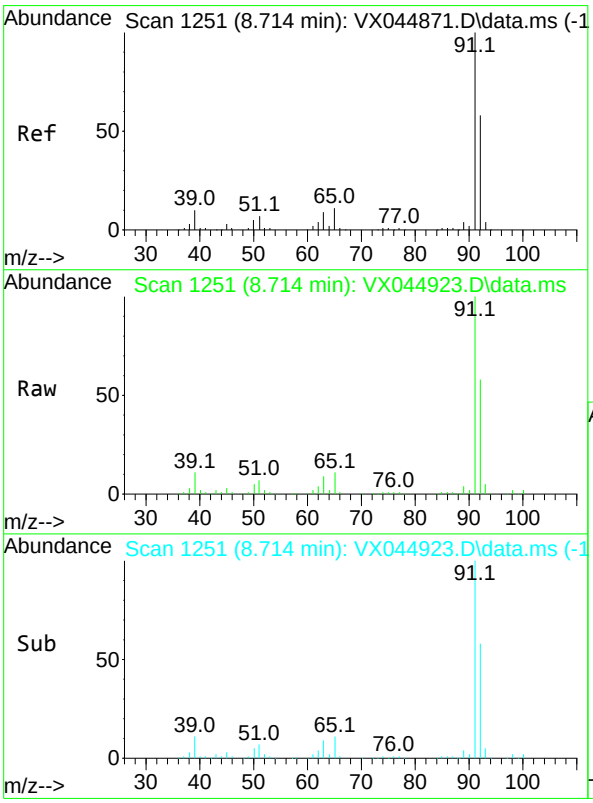
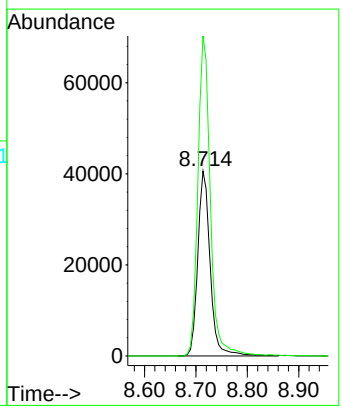
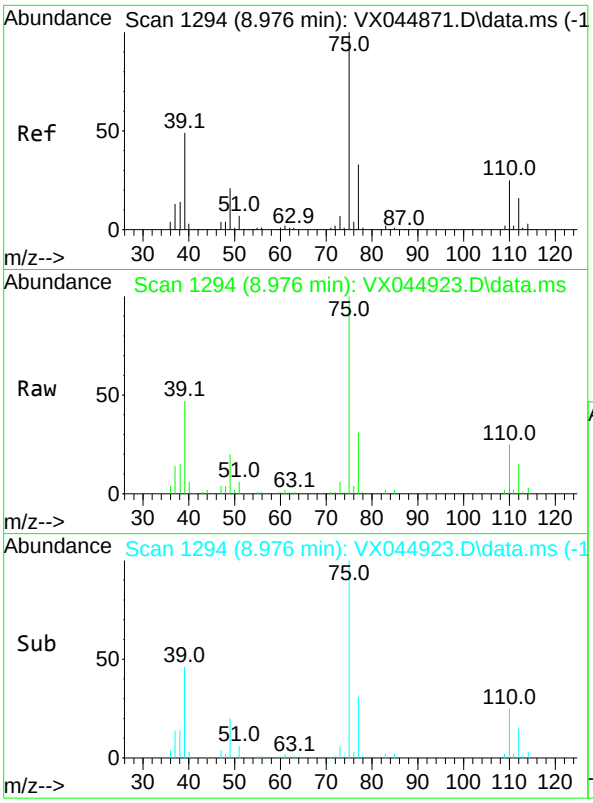


#52
Toluene
Concen: 19.058 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 92 Resp: 67935

Ion	Ratio	Lower	Upper
92	100		
91	173.9	137.4	206.2

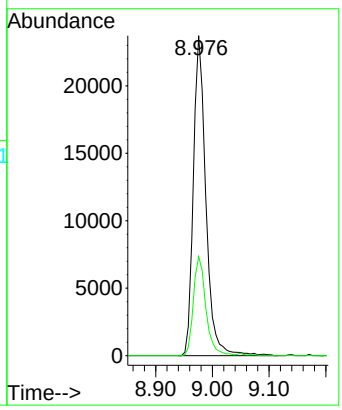




#53
t-1,3-Dichloropropene
Concen: 17.962 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 3634

Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
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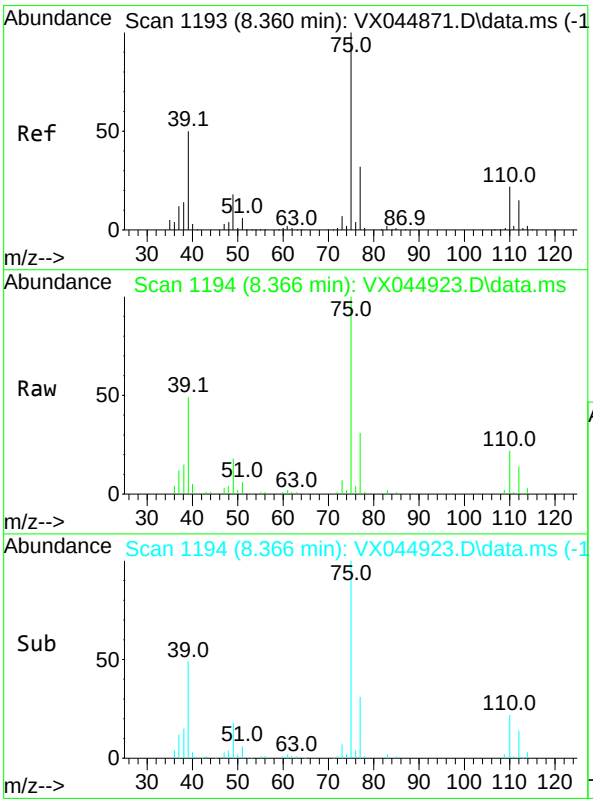
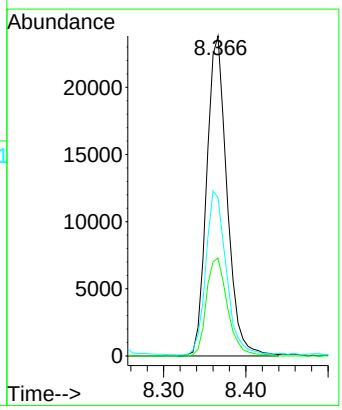
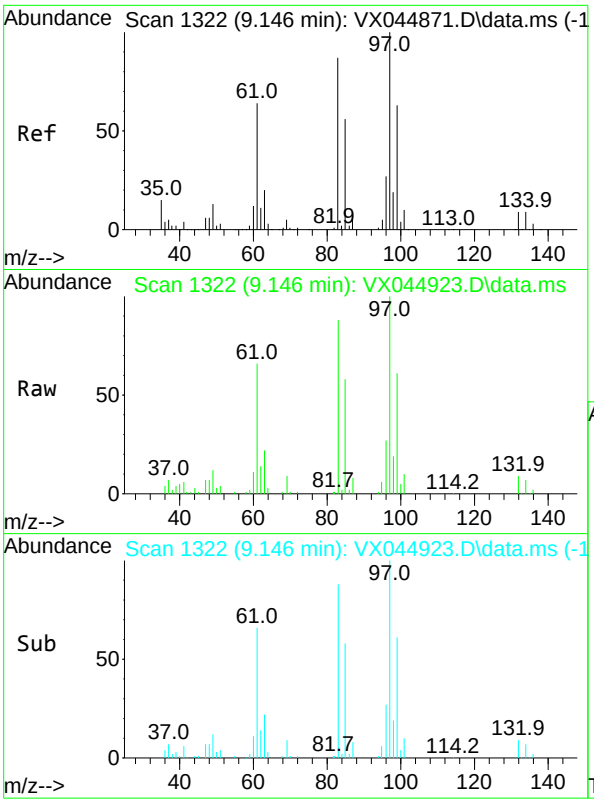


#54
cis-1,3-Dichloropropene
Concen: 18.104 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 40844

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.3	37.9
39	49.1	40.0	60.0

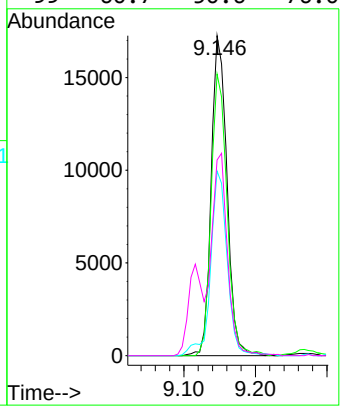




#55
1,1,2-Trichloroethane
Concen: 19.190 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 97 Resp: 2629

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.8	104.6
85	57.7	44.8	67.2
99	60.7	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
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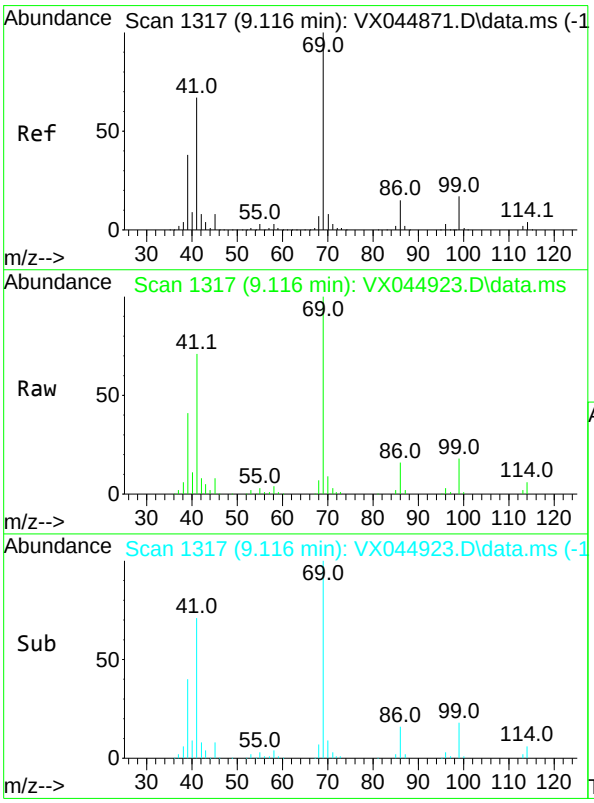
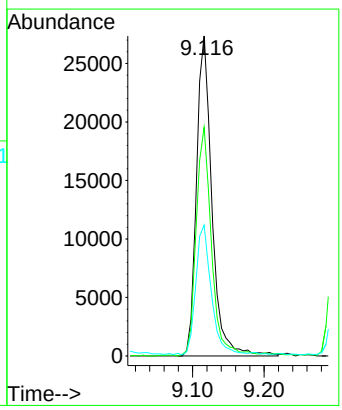
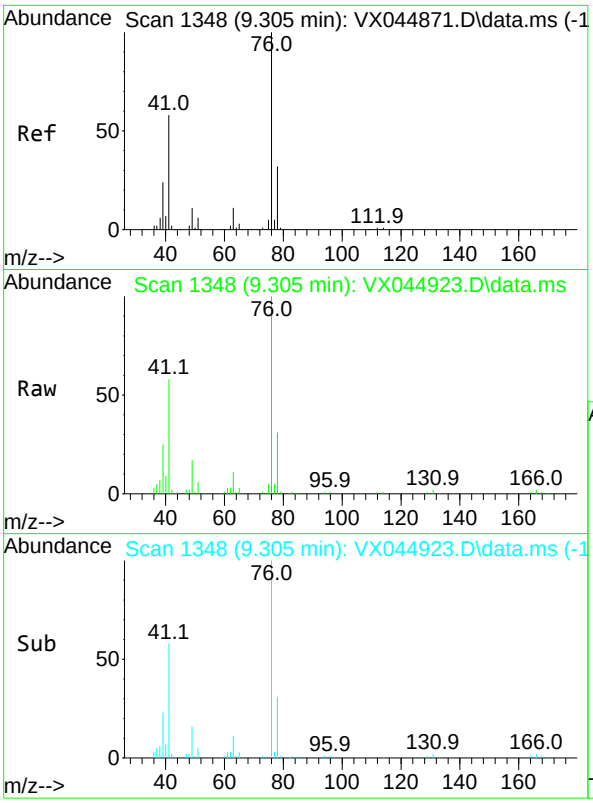


#56
Ethyl methacrylate
Concen: 18.516 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 69 Resp: 40980

Ion	Ratio	Lower	Upper
69	100		
41	71.0	55.2	82.8
39	40.4	30.8	46.2

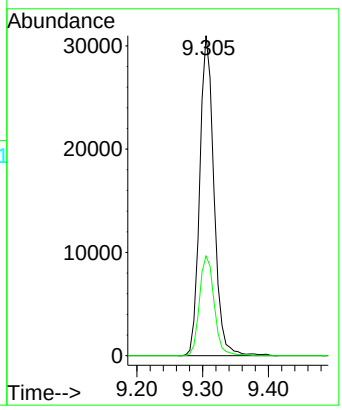




#57
1,3-Dichloropropane
Concen: 19.438 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 76 Resp: 4660

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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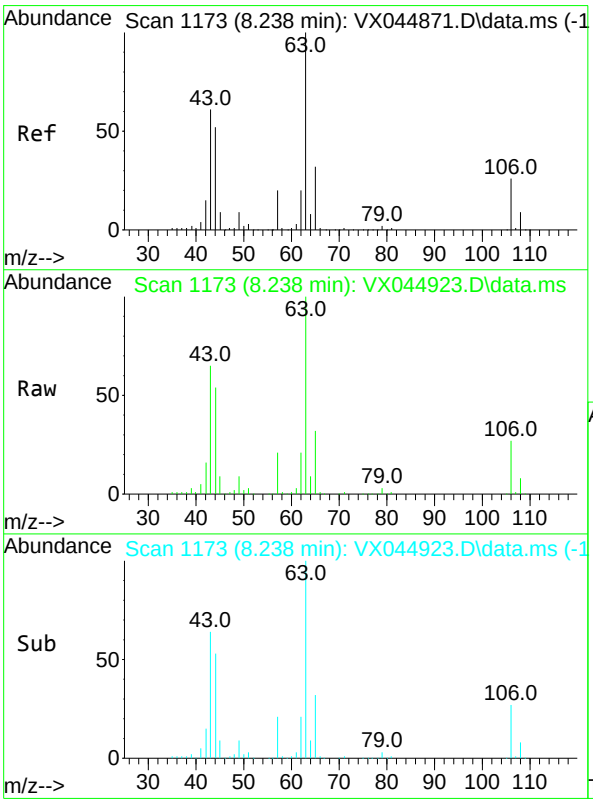
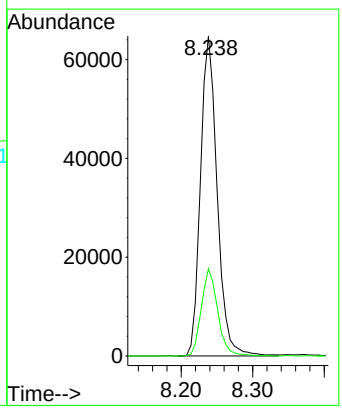
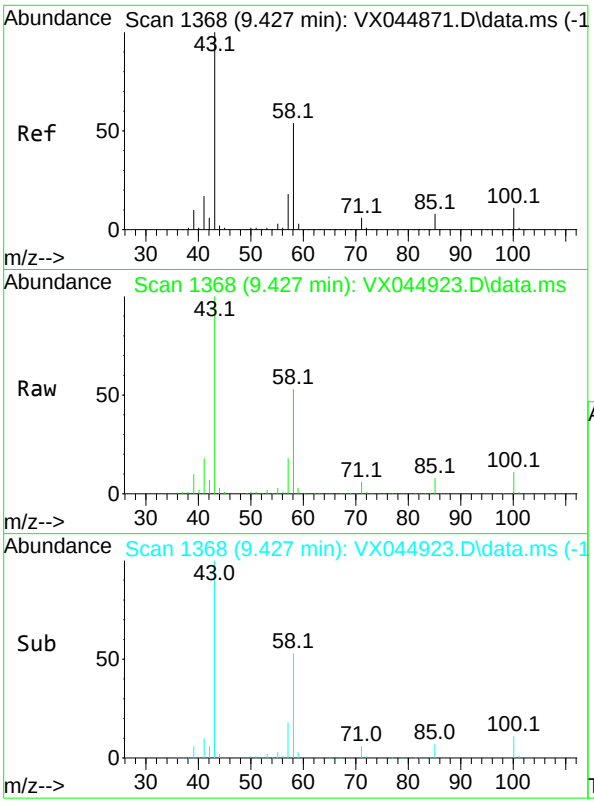


#58
2-Chloroethyl Vinyl ether
Concen: 96.581 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 63 Resp: 104955

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.3	31.9

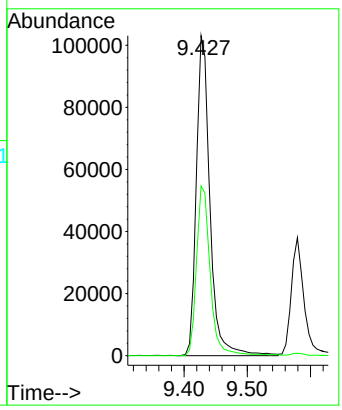




#59
2-Hexanone
Concen: 102.550 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 15465

Ion	Ratio	Lower	Upper
43	100		
58	53.5	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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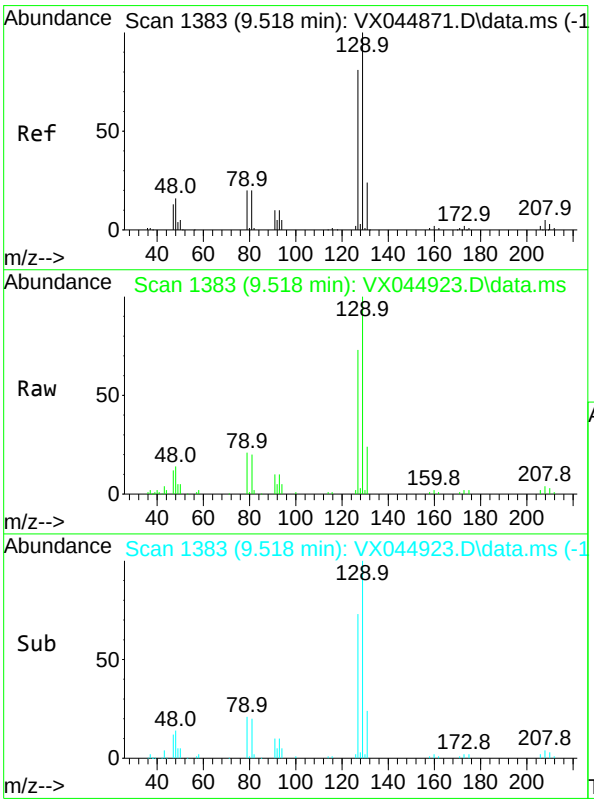
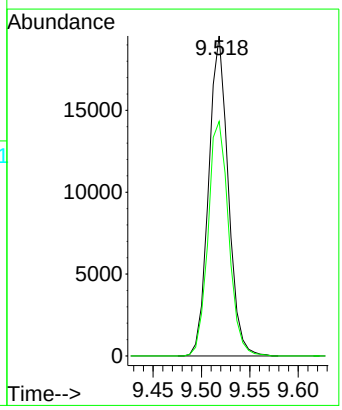
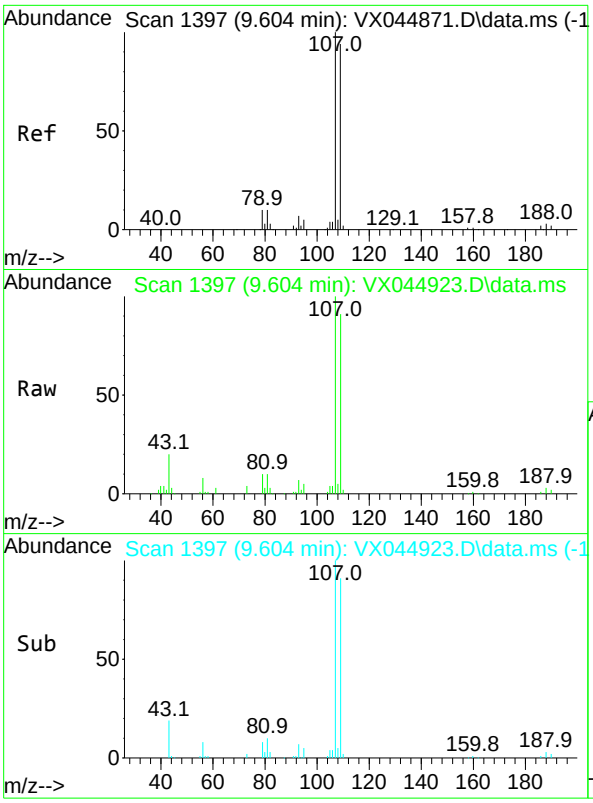


#60
Dibromochloromethane
Concen: 18.788 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:129 Resp: 27533

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.1	117.3

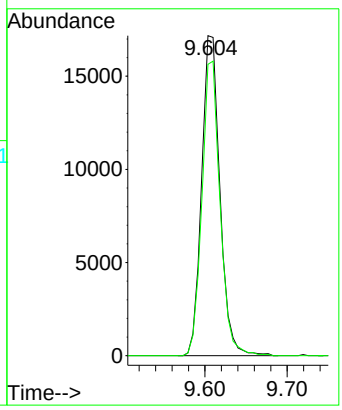




#61
1,2-Dibromoethane
Concen: 19.115 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:107 Resp: 2654

Ion	Ratio	Lower	Upper
107	100		
109	91.3	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
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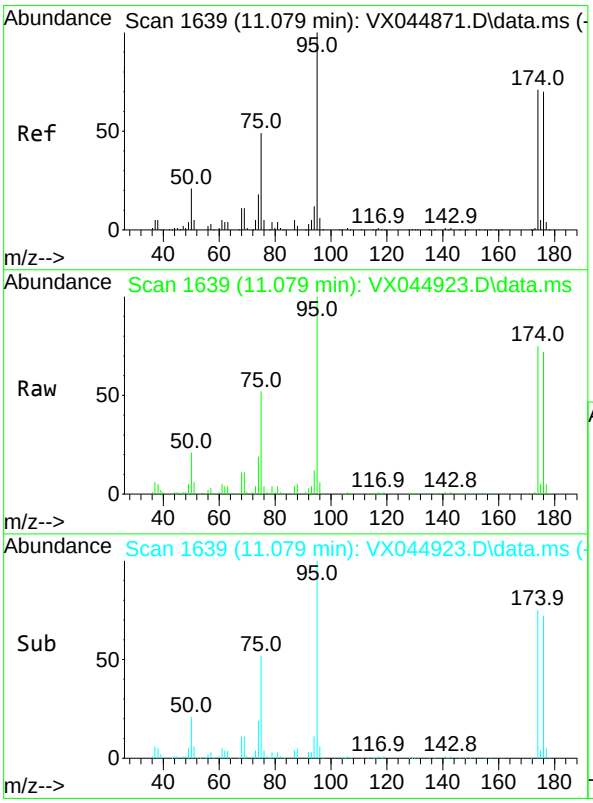
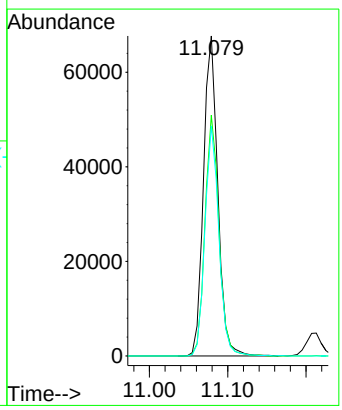
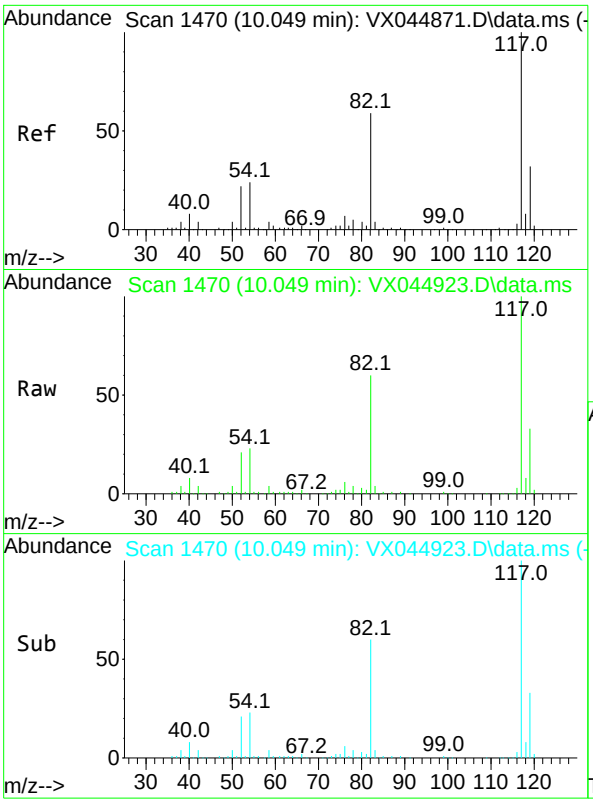


#62
4-Bromofluorobenzene
Concen: 50.570 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 95 Resp: 85651

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	142.6
176	69.9	0.0	141.6

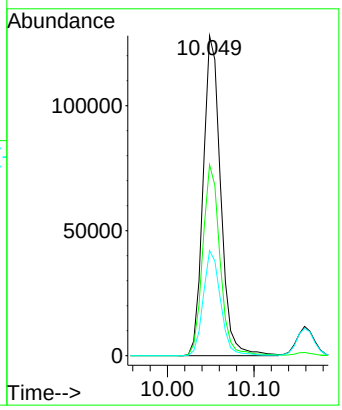




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:117 Resp: 17947

Ion	Ratio	Lower	Upper
117	100		
82	59.6	47.5	71.3
119	32.9	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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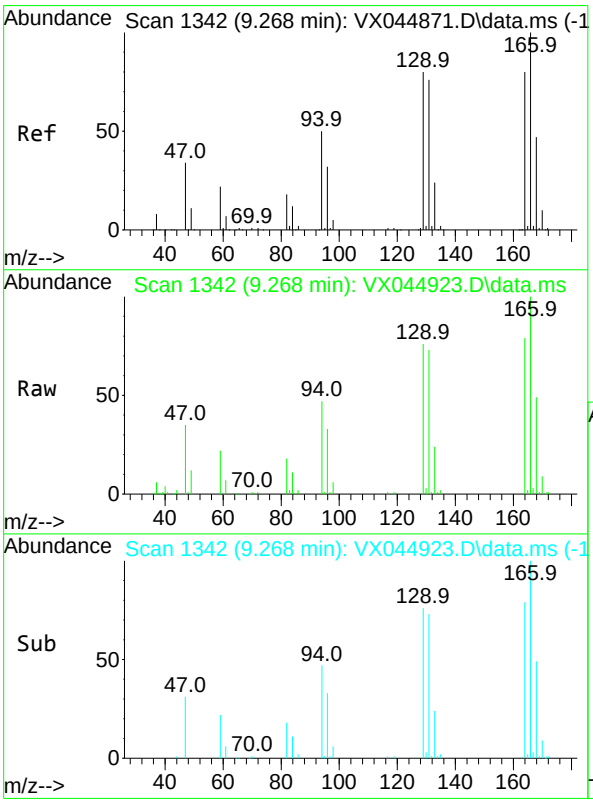
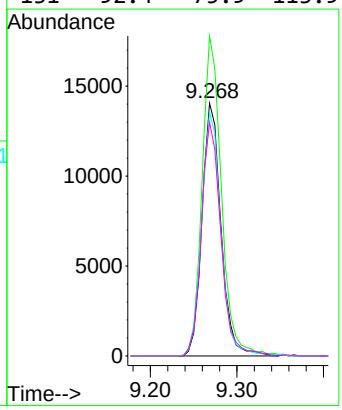
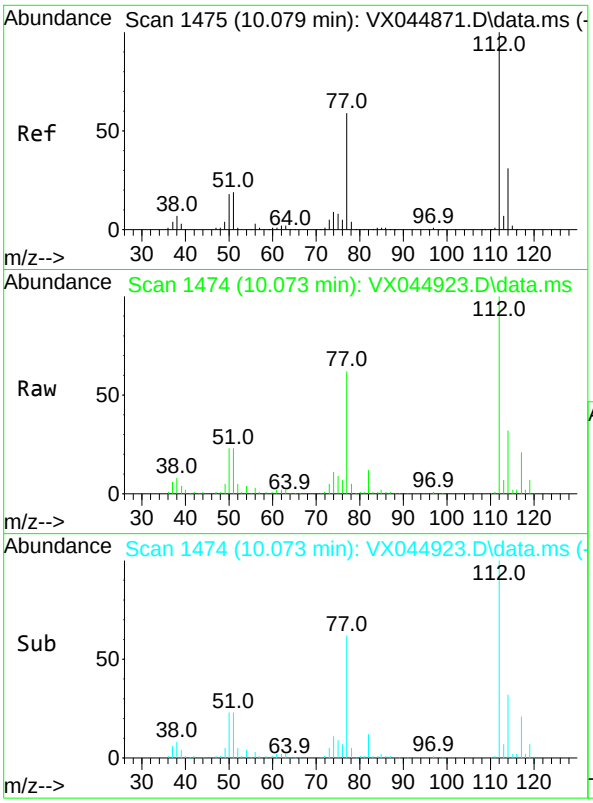


#64
Tetrachloroethene
Concen: 18.903 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:164 Resp: 21396

Ion	Ratio	Lower	Upper
164	100		
166	126.6	100.4	150.6
129	96.4	79.9	119.9
131	92.4	75.9	113.9

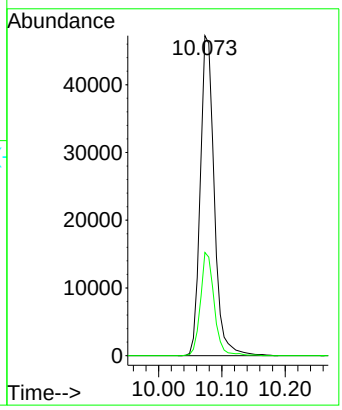




#65
Chlorobenzene
Concen: 18.857 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:112 Resp: 7269

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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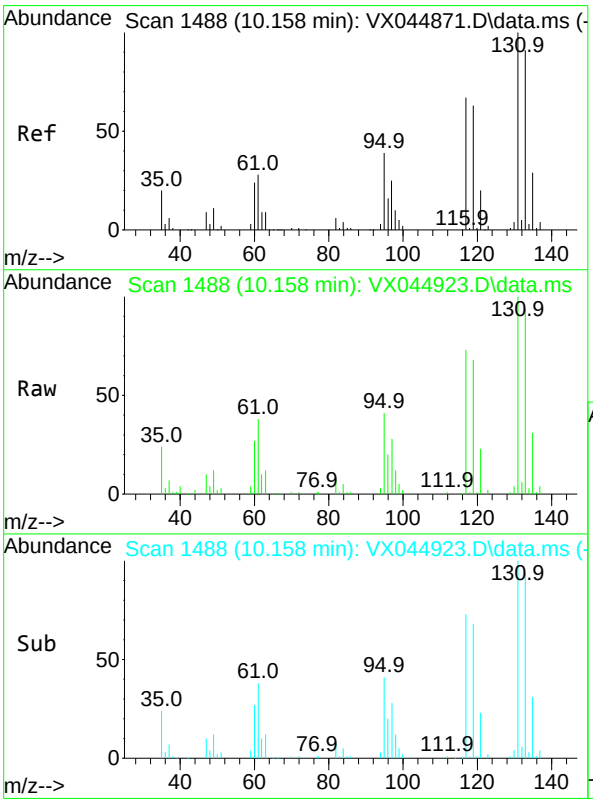
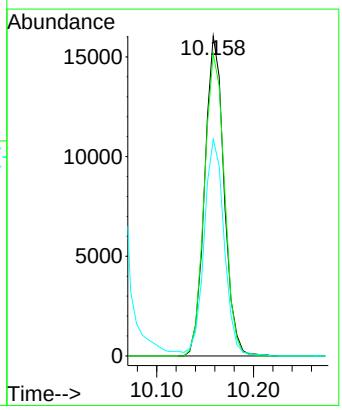
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

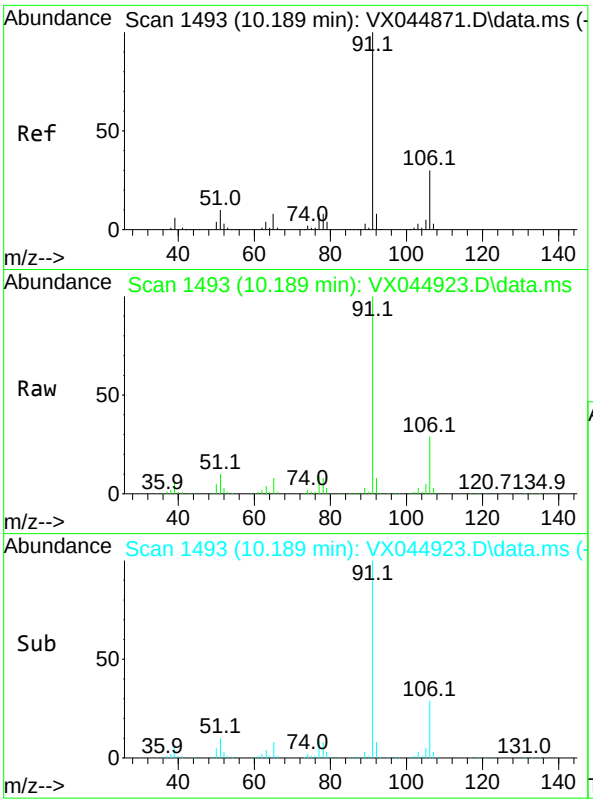


#66
1,1,1,2-Tetrachloroethane
Concen: 17.968 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:131 Resp: 22294

Ion	Ratio	Lower	Upper
131	100		
133	98.2	47.1	141.3
119	70.1	33.6	100.6

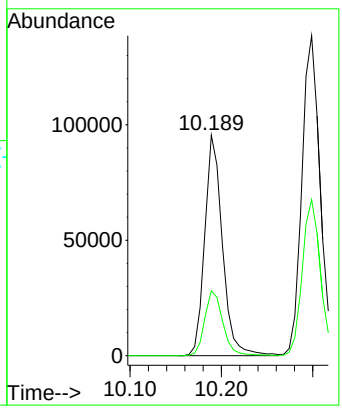




#67
Ethyl Benzene
Concen: 18.879 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 91 Resp: 12843

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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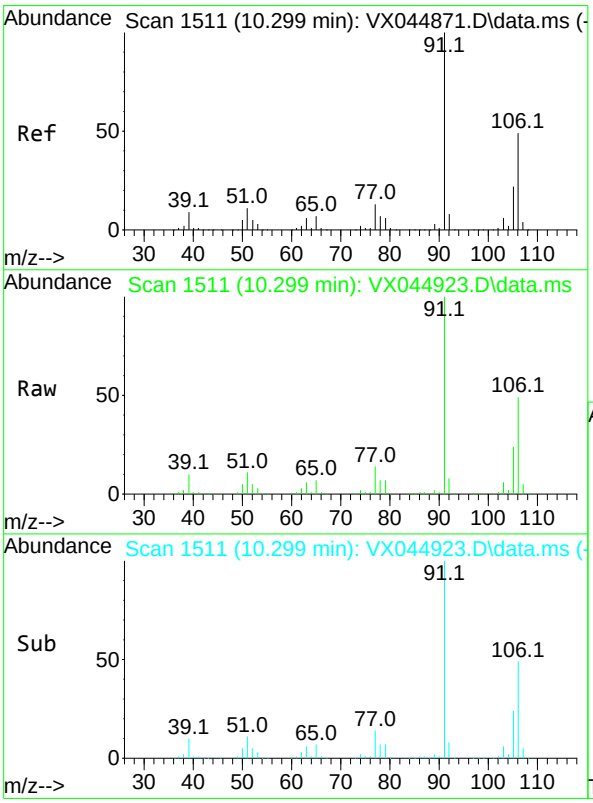
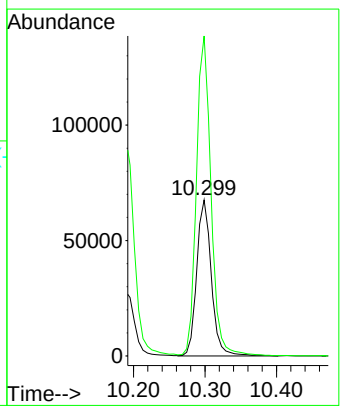
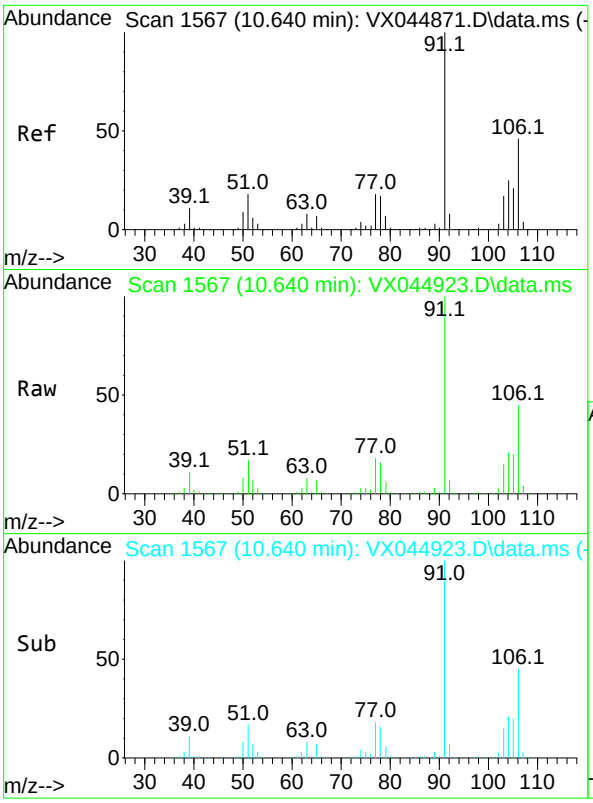


#68
m/p-Xylenes
Concen: 38.291 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:106 Resp: 96088

Ion	Ratio	Lower	Upper
106	100		
91	203.7	164.3	246.5

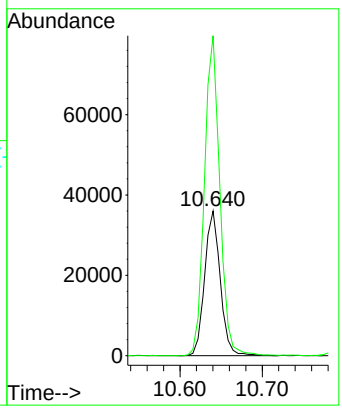




#69
o-Xylene
Concen: 18.878 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:106 Resp: 4753

Ion	Ratio	Lower	Upper
106	100		
91	217.4	108.5	325.5



Instrument :
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ClientSampleId :
VX0212WBS01

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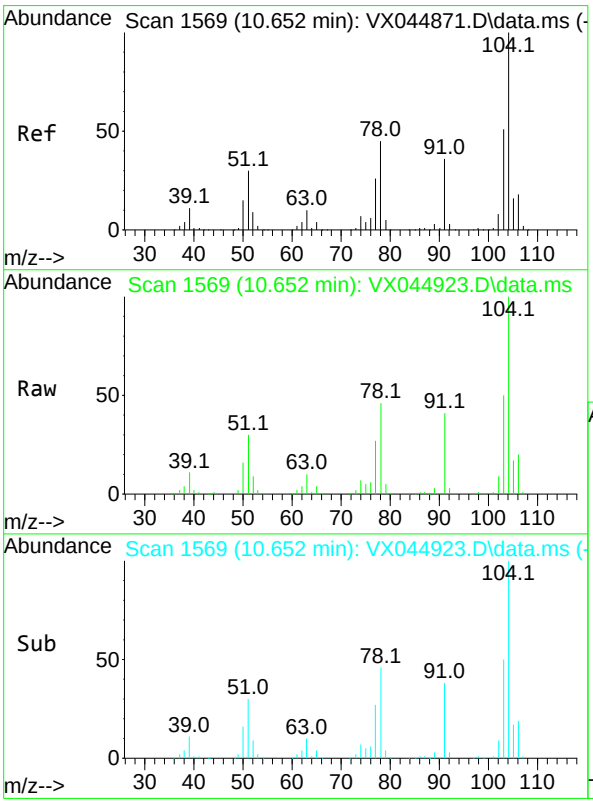
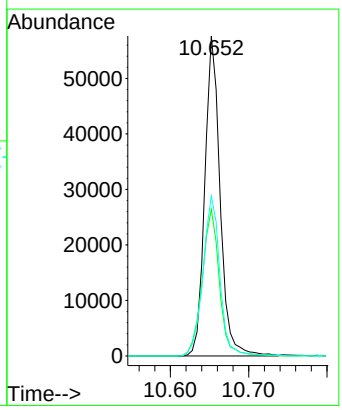
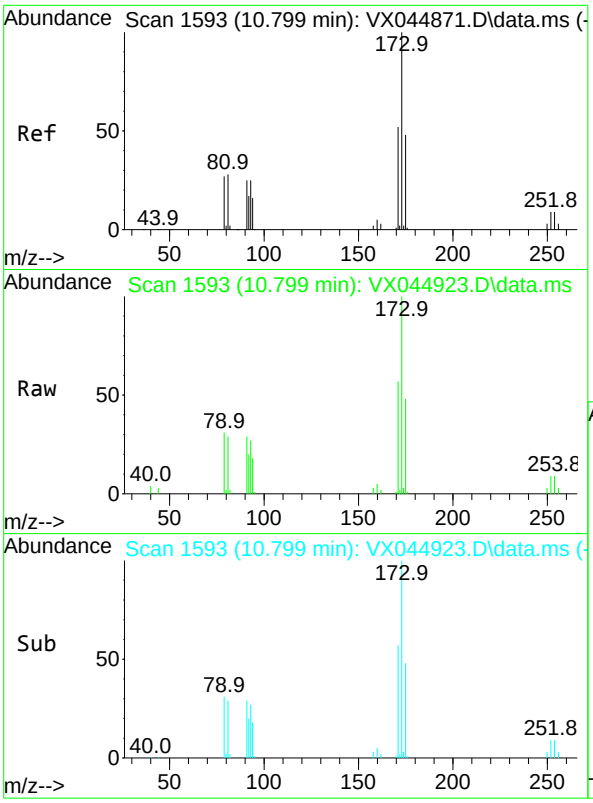


#70
Styrene
Concen: 19.298 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:104 Resp: 78288

Ion	Ratio	Lower	Upper
104	100		
78	51.6	40.5	60.7
103	55.1	43.6	65.4

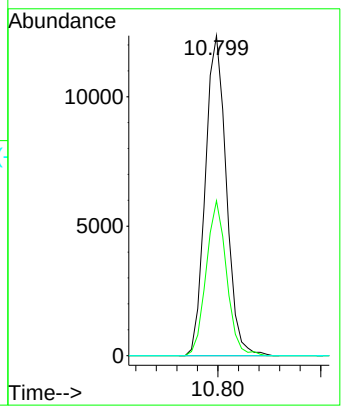




#71
Bromoform
Concen: 18.936 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:173 Resp: 1753

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.3	72.8
254	0.0	0.0	0.0



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ClientSampleId :
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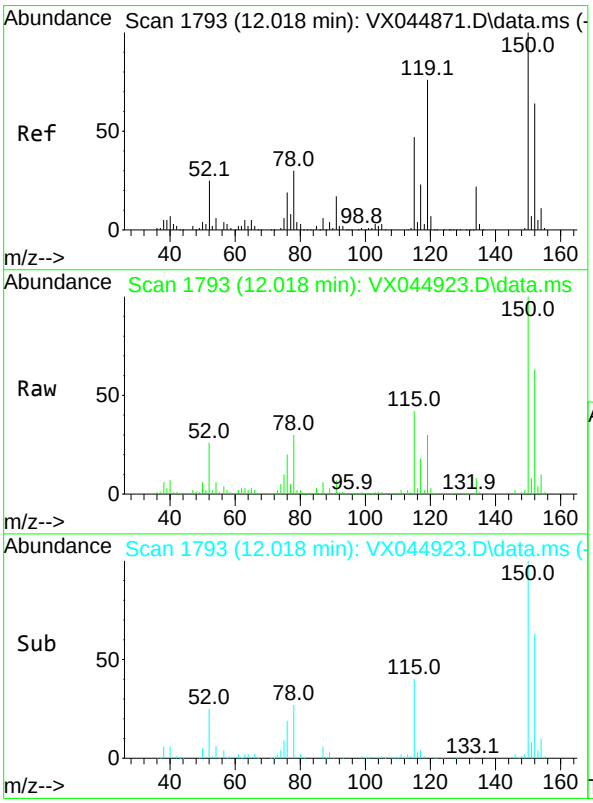
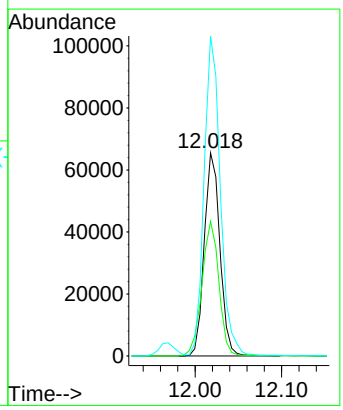
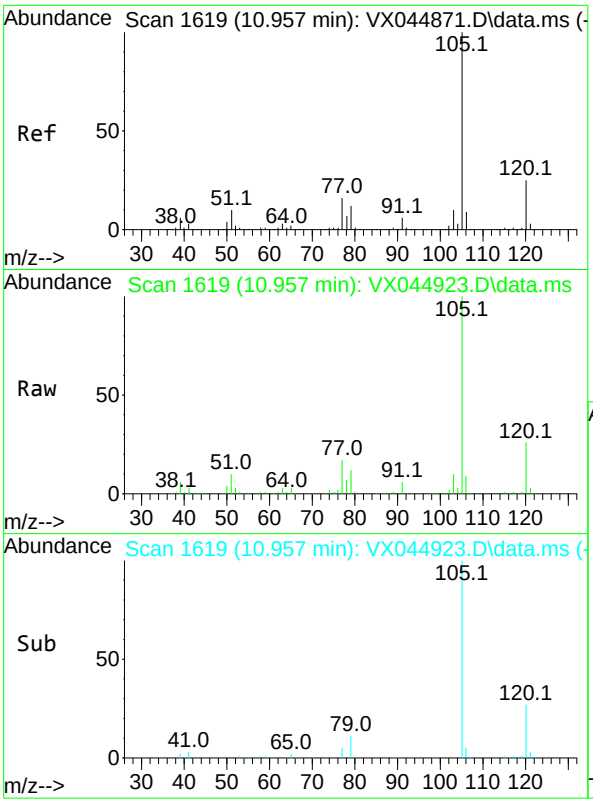


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:152 Resp: 82301

Ion	Ratio	Lower	Upper
152	100		
115	71.3	43.4	130.1
150	162.8	0.0	350.4

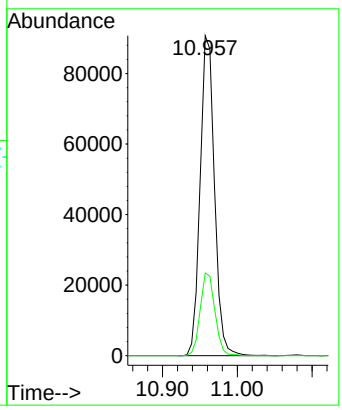




#73
Isopropylbenzene
Concen: 18.252 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:105 Resp: 12095

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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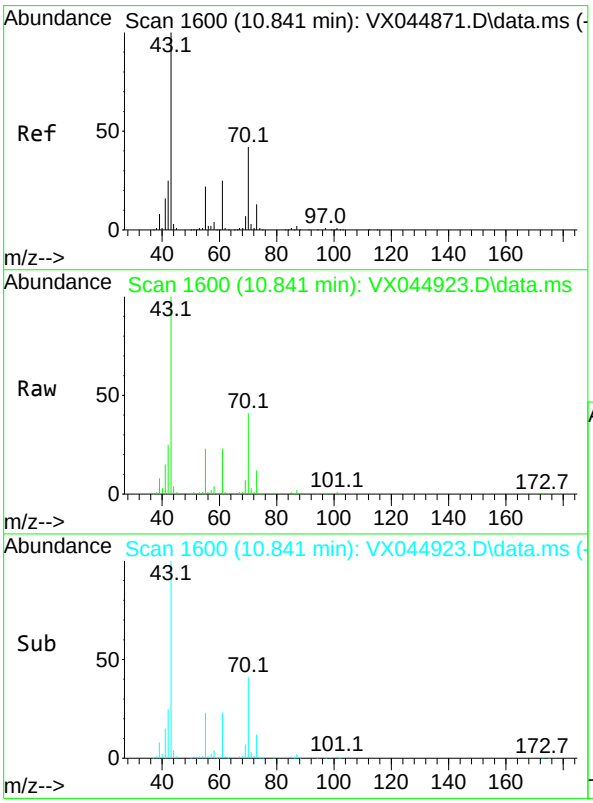
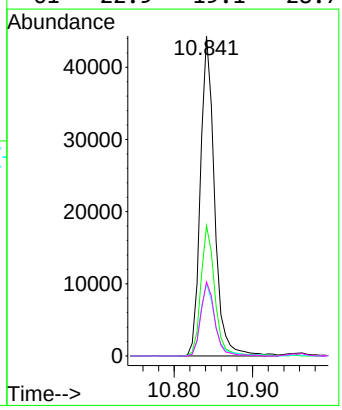
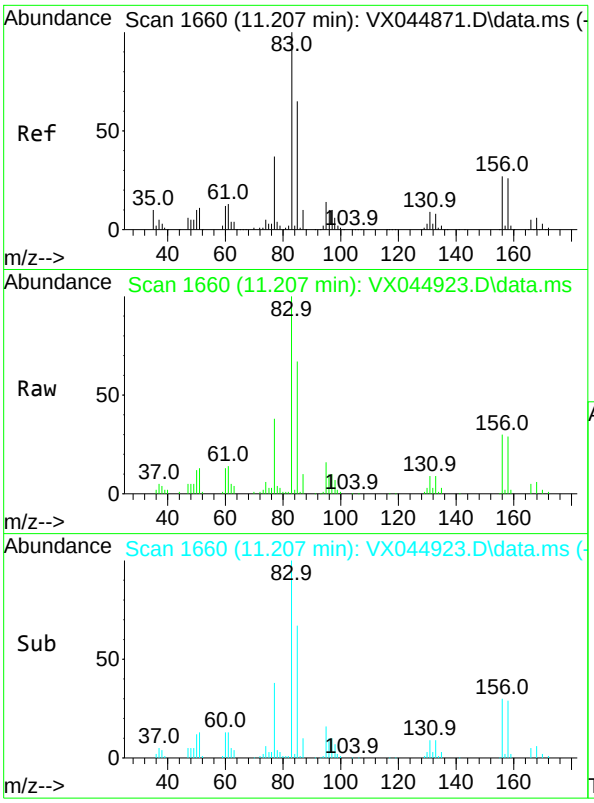


#74
N-amyl acetate
Concen: 18.514 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 55519

Ion	Ratio	Lower	Upper
43	100		
70	40.3	33.7	50.5
55	23.3	18.6	27.8
61	22.9	19.1	28.7

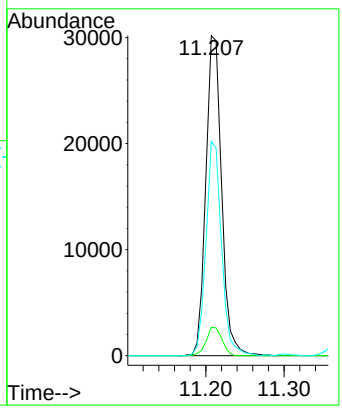




#75
1,1,2,2-Tetrachloroethane
Concen: 18.556 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 83 Resp: 4225

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.5
85	65.8	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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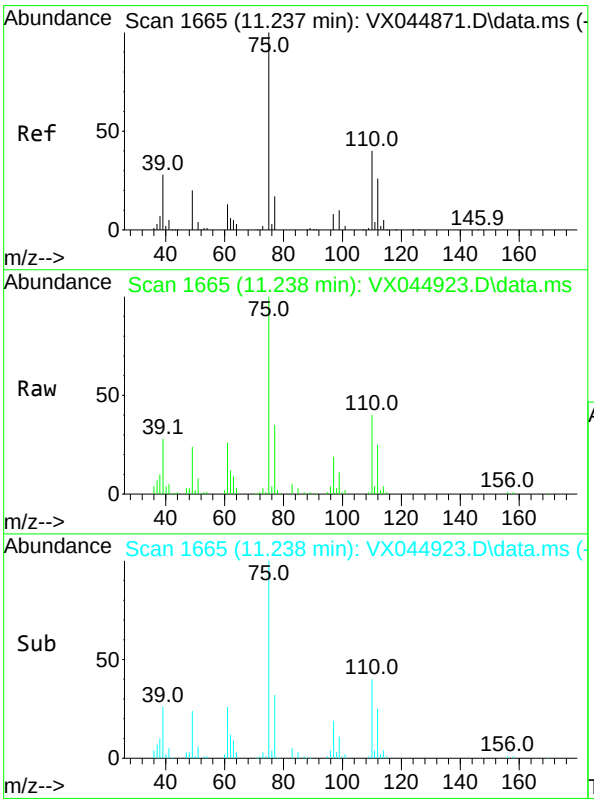
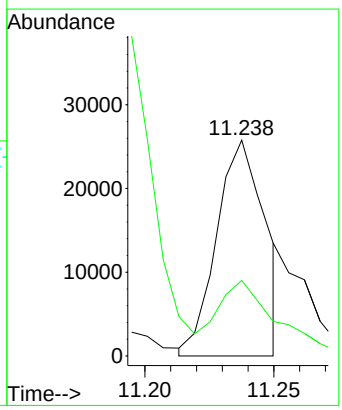
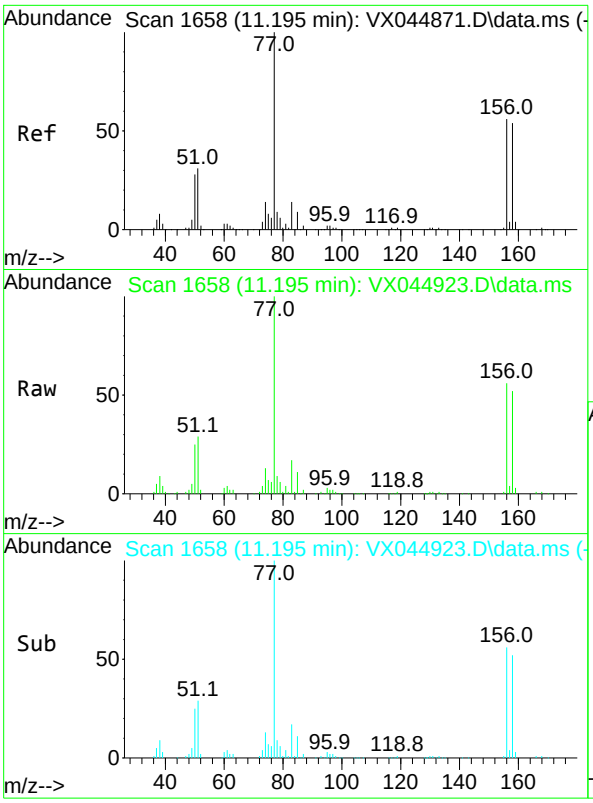


#76
1,2,3-Trichloropropane
Concen: 18.500 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 33758

Ion	Ratio	Lower	Upper
75	100		
77	42.9	21.9	65.7

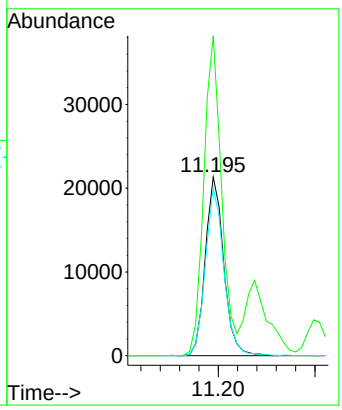




#77
Bromobenzene
Concen: 18.742 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:156 Resp: 2815

Ion	Ratio	Lower	Upper
156	100		
77	172.7	88.4	265.3
158	94.6	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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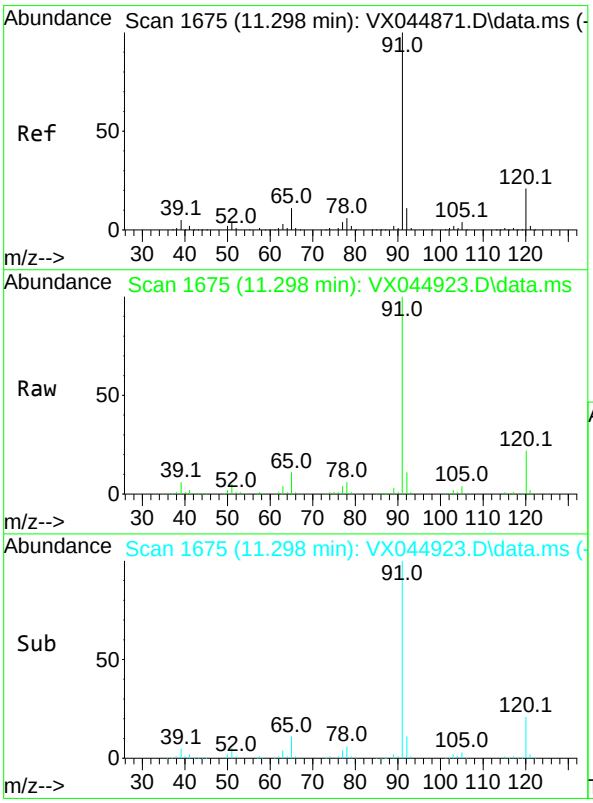
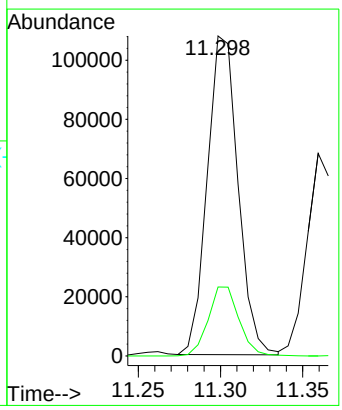
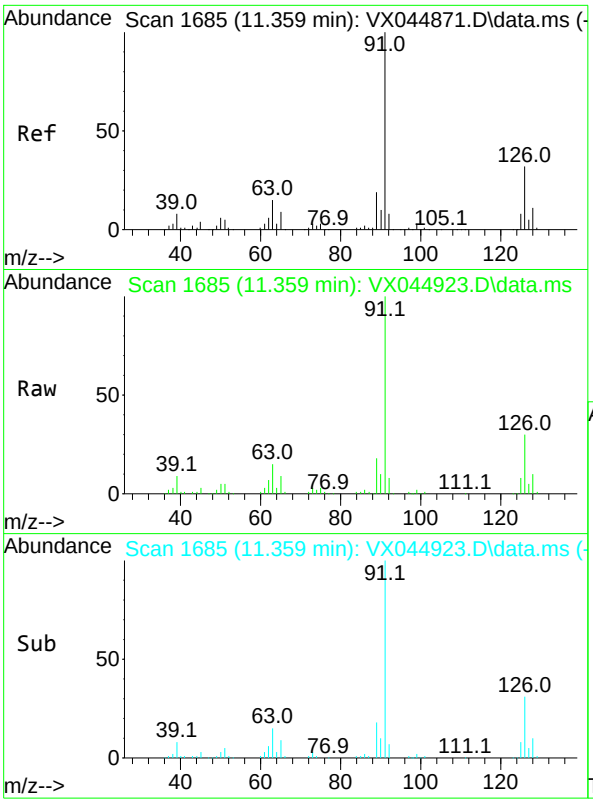


#78
n-propylbenzene
Concen: 18.361 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 91 Resp: 140438

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.1	33.3

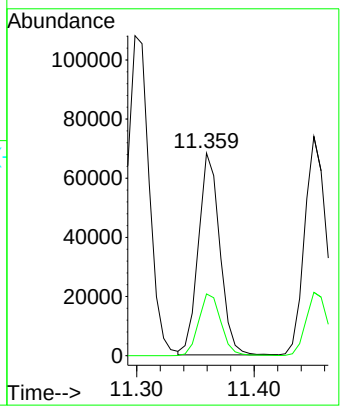




#79
2-Chlorotoluene
Concen: 18.425 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 91 Resp: 8661

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.2	48.6



Instrument :
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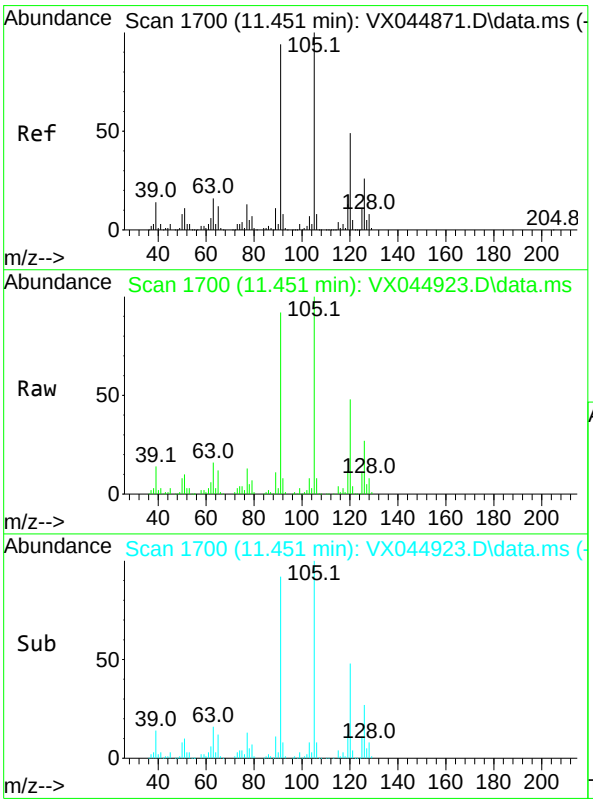
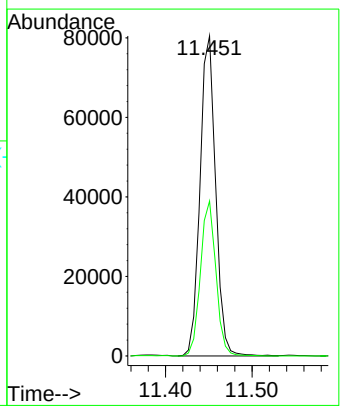
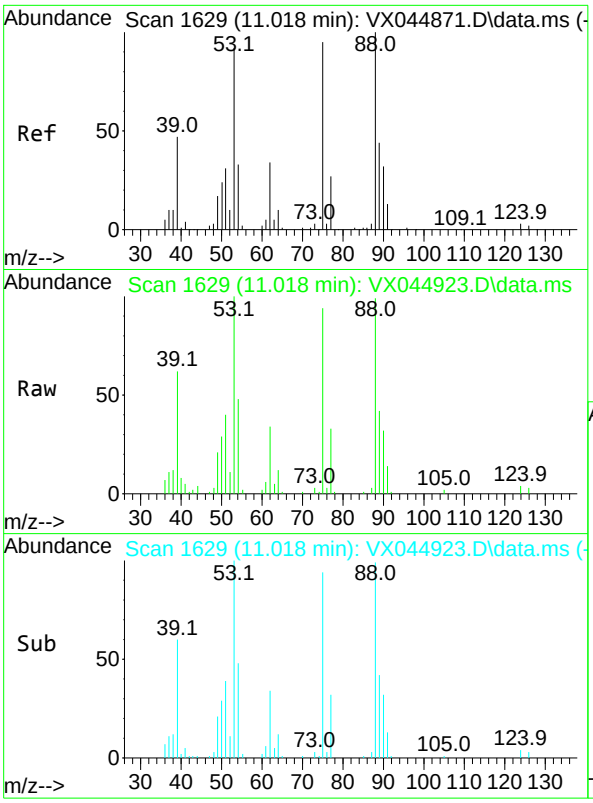


#80
1,3,5-Trimethylbenzene
Concen: 18.723 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:105 Resp: 100686

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0

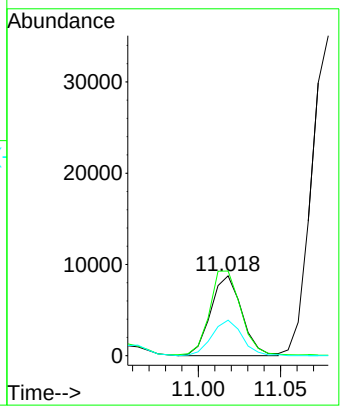




#81
trans-1,4-Dichloro-2-butene
Concen: 16.247 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 1152

Ion	Ratio	Lower	Upper
75	100		
53	108.3	78.0	117.0
89	43.4	36.6	54.8



Instrument :
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ClientSampleId :
VX0212WBS01

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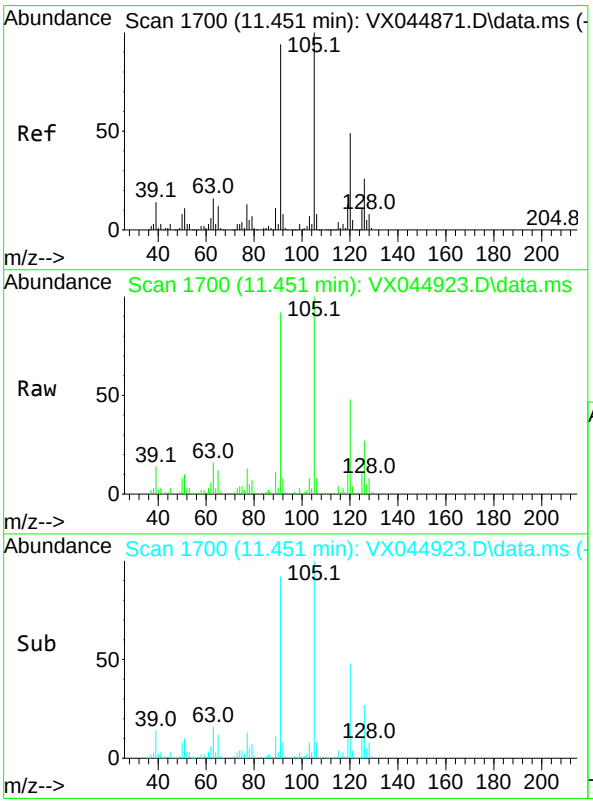
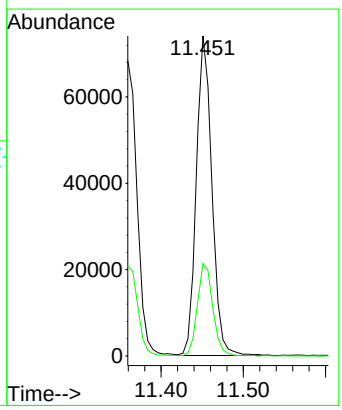
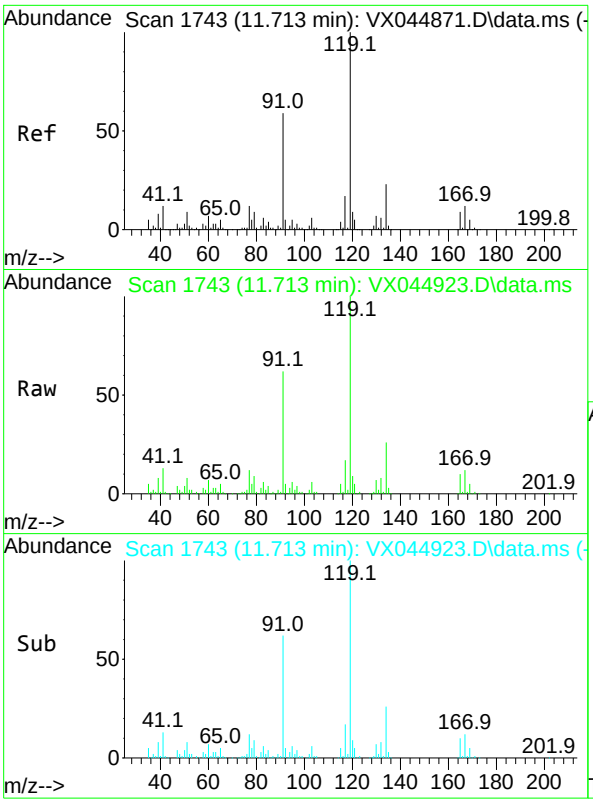


#82
4-Chlorotoluene
Concen: 18.692 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 91 Resp: 97212

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6

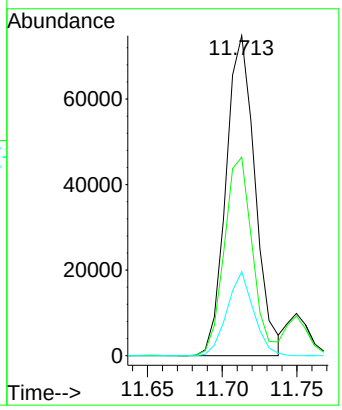




#83
tert-Butylbenzene
Concen: 18.560 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:119 Resp: 10097

Ion	Ratio	Lower	Upper
119	100		
91	60.6	29.1	87.4
134	24.0	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

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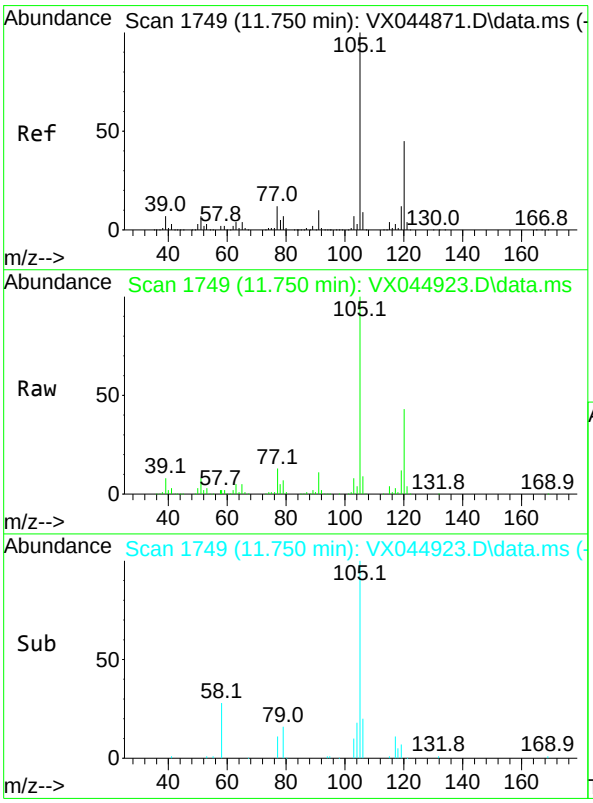
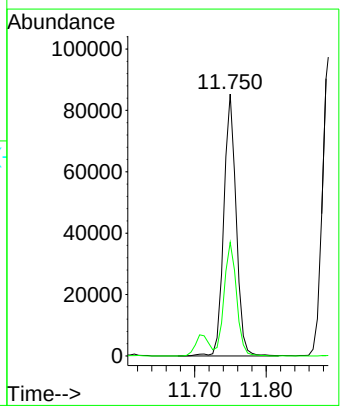
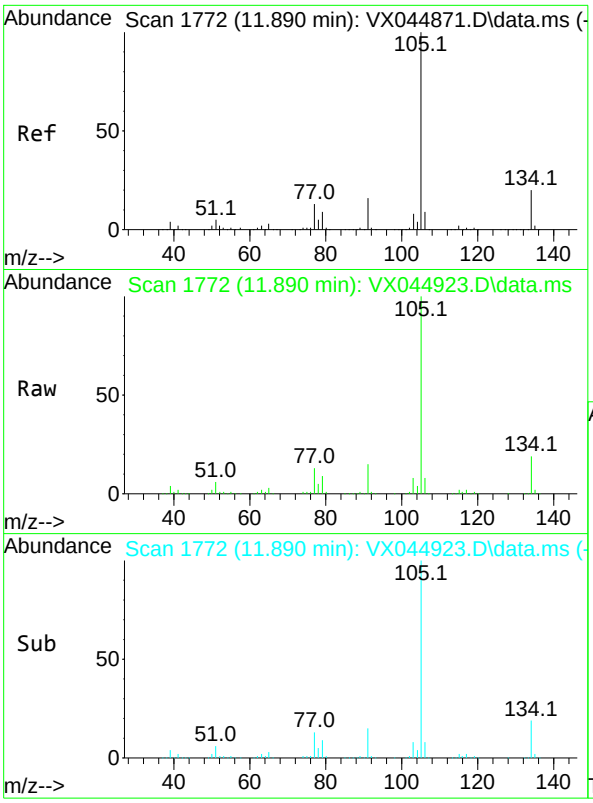


#84
1,2,4-Trimethylbenzene
Concen: 19.309 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:105 Resp: 102485

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.4	67.0

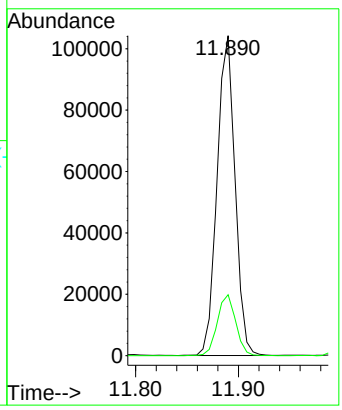




#85
sec-Butylbenzene
Concen: 18.725 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:105 Resp: 12614

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations
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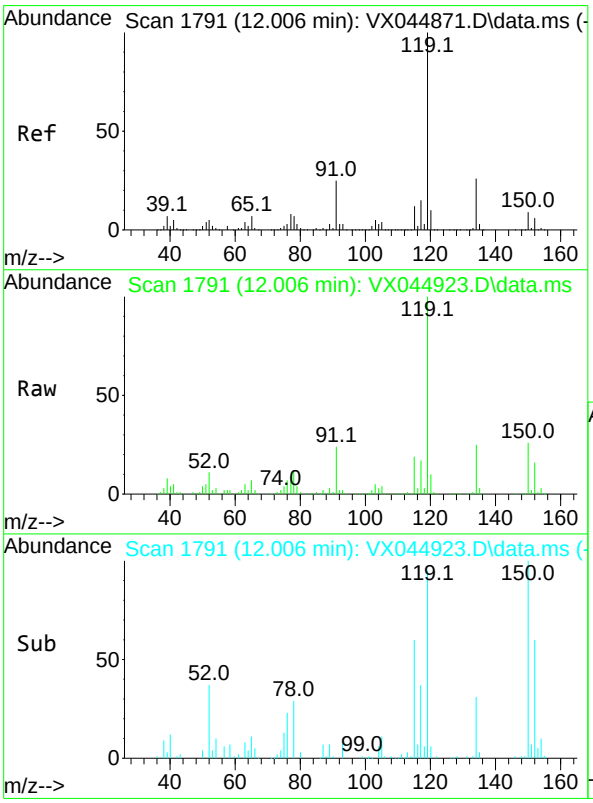
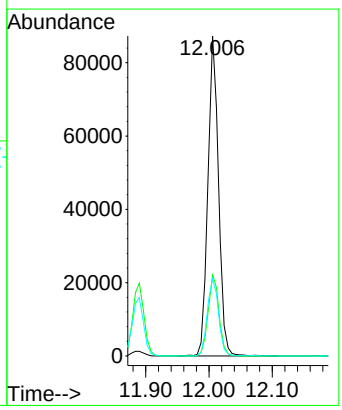
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

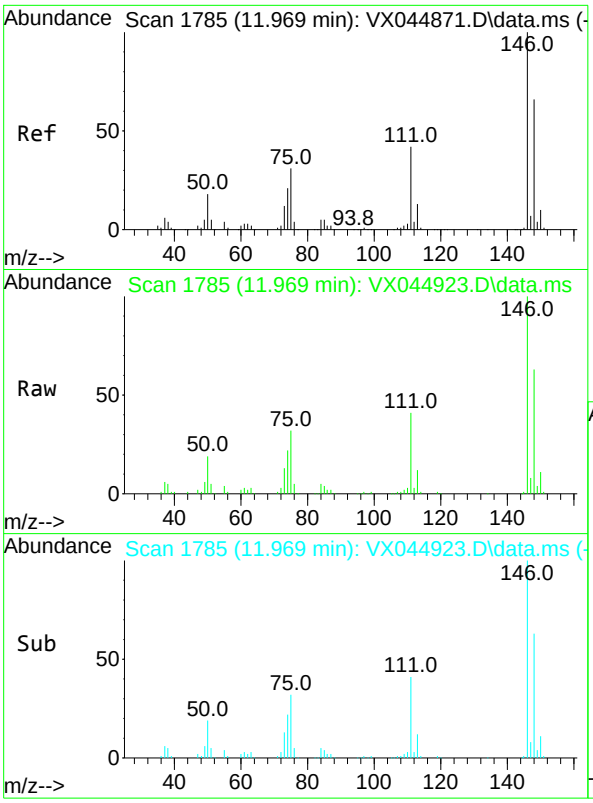


#86
p-Isopropyltoluene
Concen: 18.873 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:119 Resp: 102245

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	38.9
91	25.5	12.1	36.3

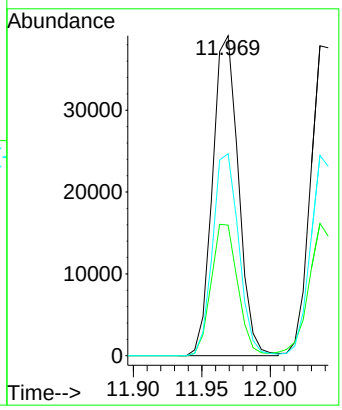




#87
1,3-Dichlorobenzene
Concen: 18.612 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:146 Resp: 5142

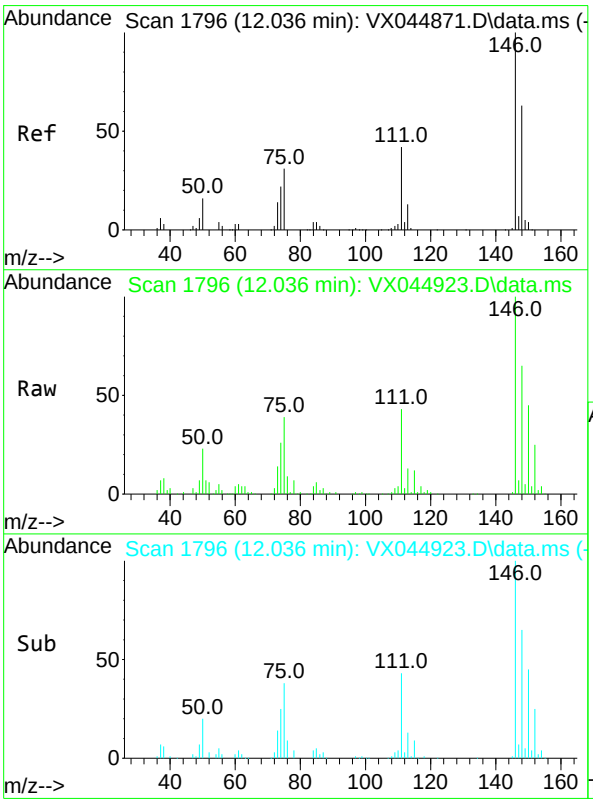
Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.2	63.6
148	63.7	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations APPROVED

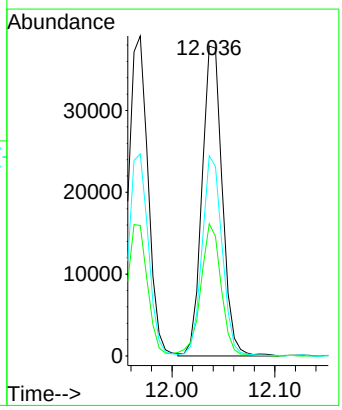
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

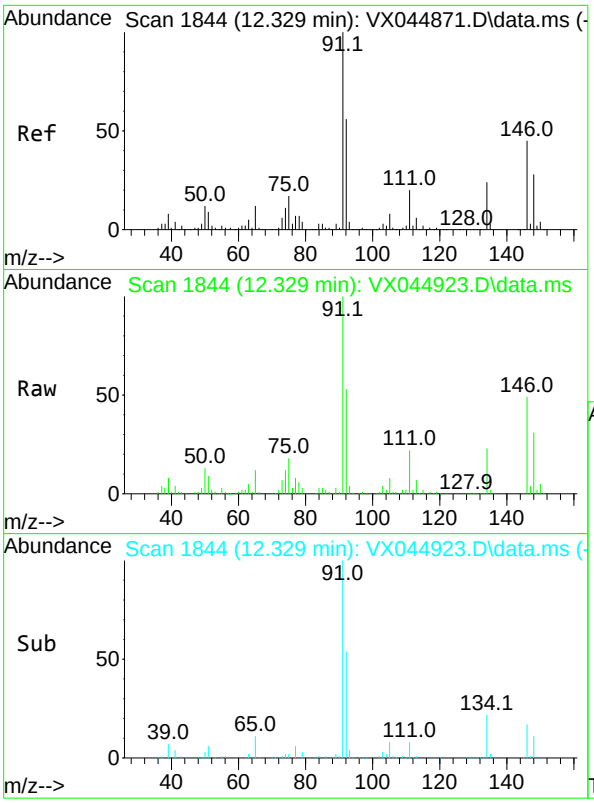


#88
1,4-Dichlorobenzene
Concen: 18.616 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:146 Resp: 52003

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.4	61.3
148	64.0	32.0	96.0

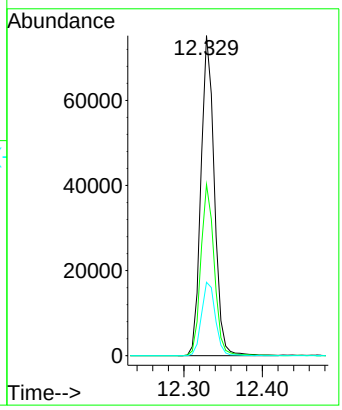




#89
n-Butylbenzene
Concen: 18.617 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 91 Resp: 8922

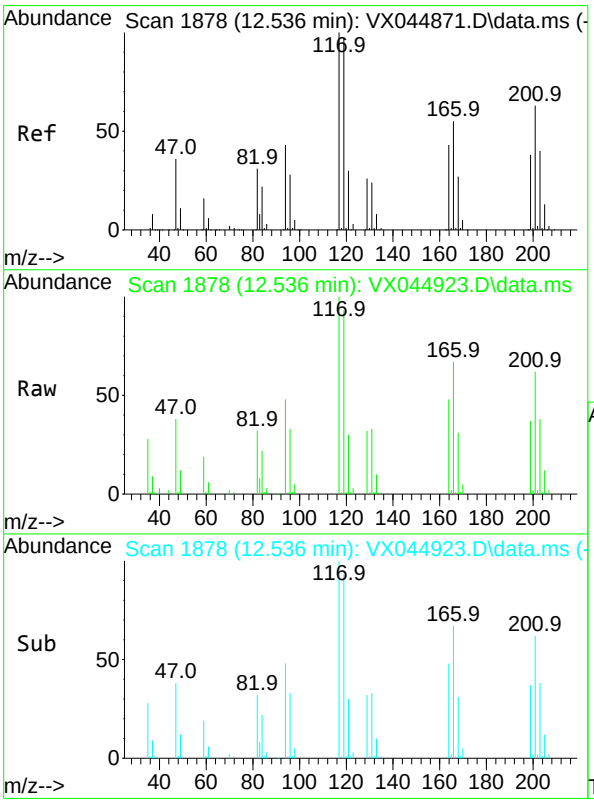
Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.2	81.6
134	23.9	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations
APPROVED

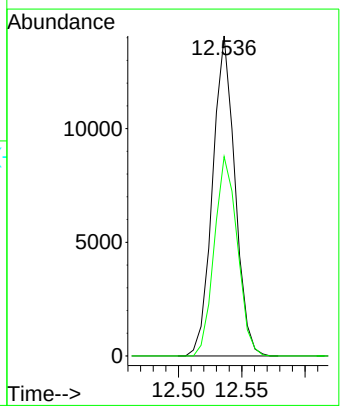
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

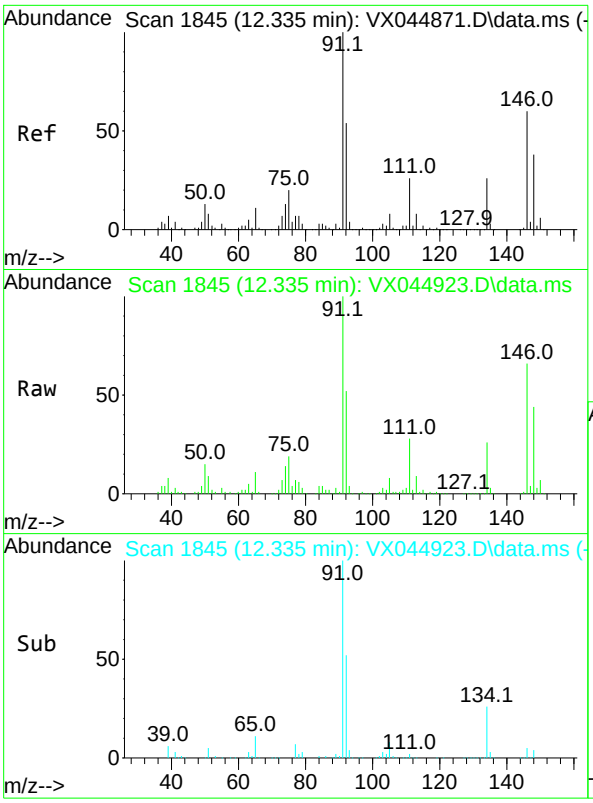


#90
Hexachloroethane
Concen: 17.025 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:117 Resp: 17270

Ion	Ratio	Lower	Upper
117	100		
201	64.3	32.5	97.5

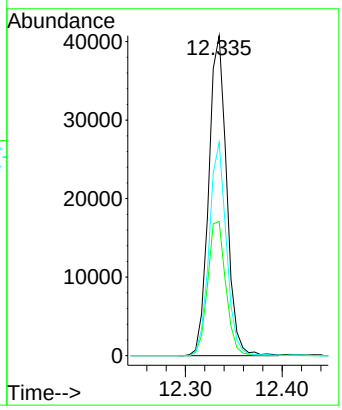




#91
1,2-Dichlorobenzene
Concen: 19.322 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:146 Resp: 5246

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.8	65.4
148	64.0	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations
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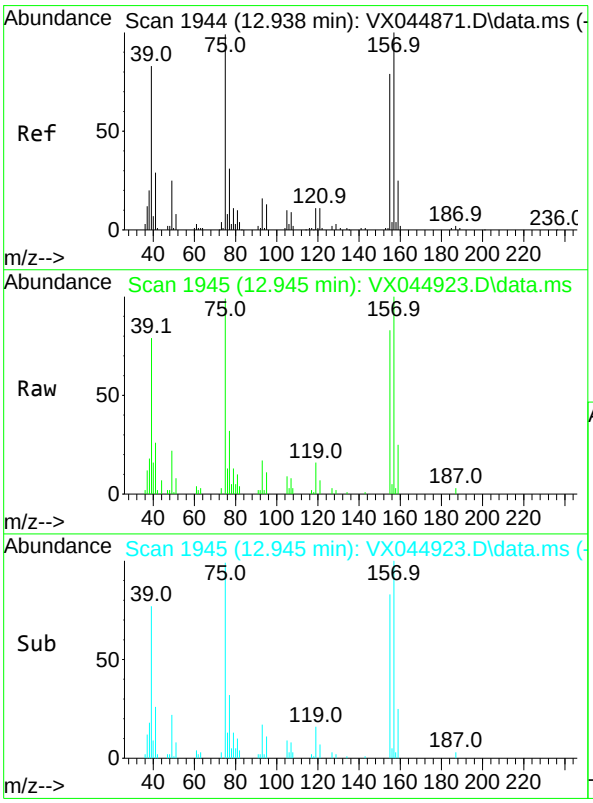
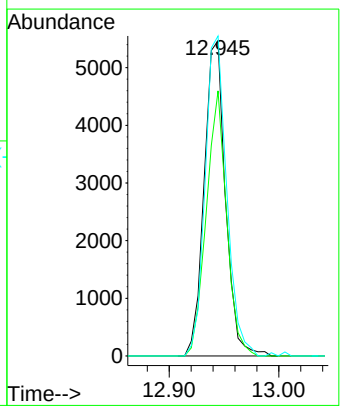
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

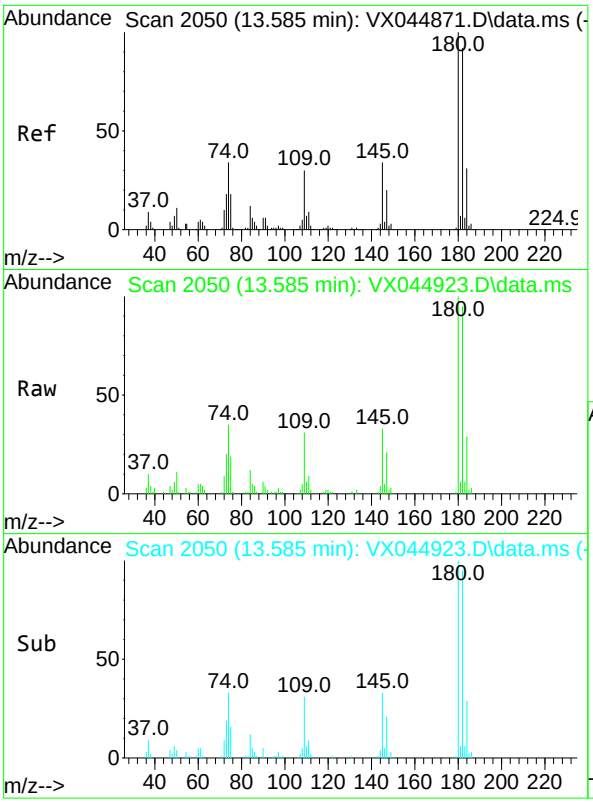


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.736 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 7371

Ion	Ratio	Lower	Upper
75	100		
155	80.3	40.5	121.4
157	102.9	51.4	154.3

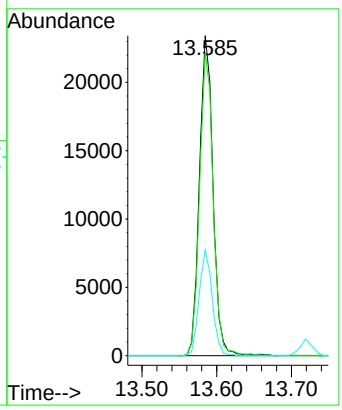




#93
1,2,4-Trichlorobenzene
Concen: 17.948 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:180 Resp: 2948

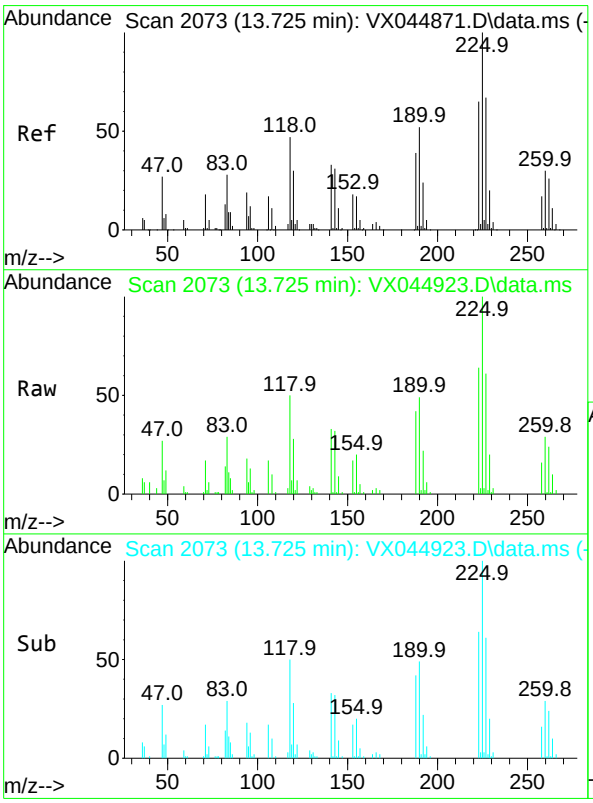
Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.6	142.8
145	32.1	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations APPROVED

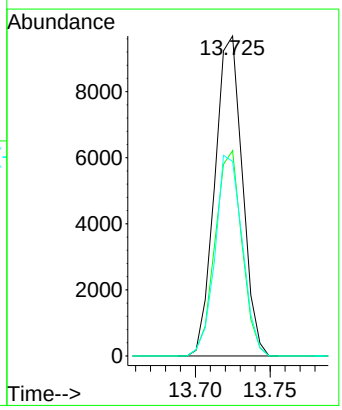
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

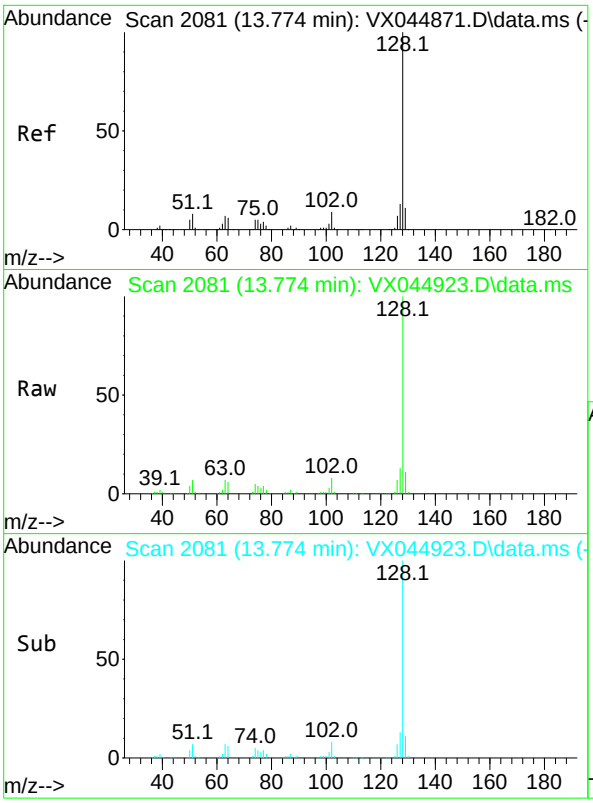


#94
Hexachlorobutadiene
Concen: 19.001 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:225 Resp: 12394

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.4	94.2
227	61.9	32.3	96.8

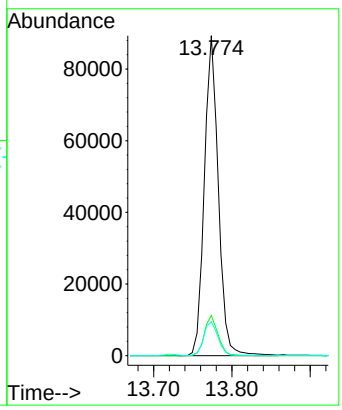




#95
Naphthalene
Concen: 18.605 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:128 Resp: 11050

Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.1	15.1
129	10.9	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Manual Integrations
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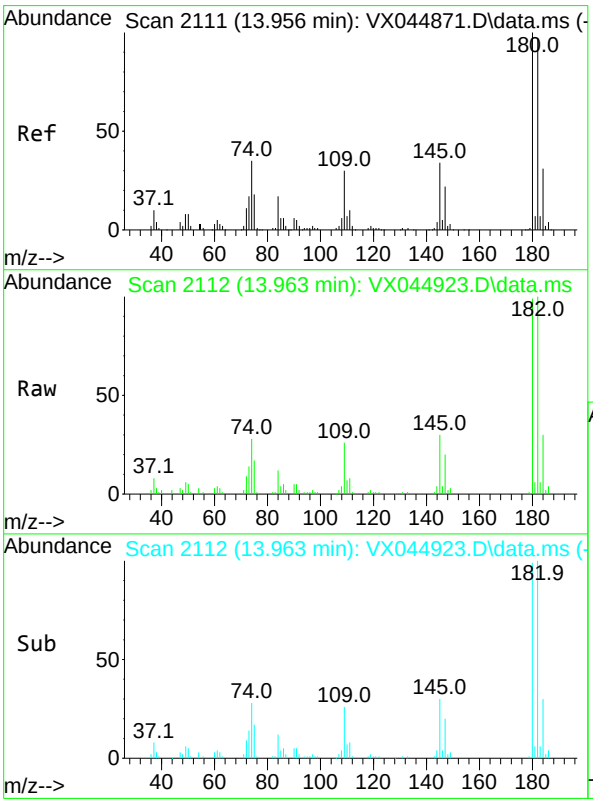
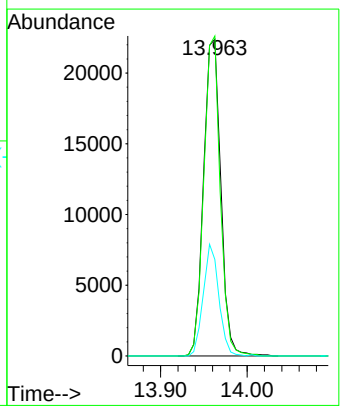
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.682 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:180 Resp: 30930

Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.9	143.6
145	31.9	17.1	51.3



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX0212WBSD01	SDG No.:	Q1347
Lab Sample ID:	VX0212WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044924.D	1		02/12/25 11:46	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	17.6		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	19.4		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	22.0		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.6		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.5		0.26	0.75	1.00	ug/L
67-64-1	Acetone	98.2		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.6		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.7		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.4		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.0		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	99.3		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	18.6		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.2		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.4		0.19	0.50	1.00	ug/L
71-43-2	Benzene	18.9		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.0		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.6		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.4		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.8		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.3		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.3		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VX0212WBSD01	SDG No.:	Q1347
Lab Sample ID:	VX0212WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044924.D	1		02/12/25 11:46	VX021225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.0		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.0		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.0		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.9		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.5		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.7		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.4		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.7		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.2		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.5		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.4		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.4		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.544				
540-36-3	1,4-Difluorobenzene	196000	6.751				
3114-55-4	Chlorobenzene-d5	173000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	79600	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044924.D
Acq On : 12 Feb 2025 11:46
Operator : JC/MD
Sample : VX0212WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 13 00:48:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	109124	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	195530	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	172961	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	79611	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	80512	50.403	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.800%			
35) Dibromofluoromethane	5.379	113	62877	49.460	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.920%			
50) Toluene-d8	8.647	98	237599	49.426	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.860%			
62) 4-Bromofluorobenzene	11.079	95	82362	50.822	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28368	18.535	ug/l	98
3) Chloromethane	1.300	50	32731	17.571	ug/l	97
4) Vinyl Chloride	1.374	62	30493	16.897	ug/l	99
5) Bromomethane	1.593	94	10500	19.444	ug/l	96
6) Chloroethane	1.666	64	16764	22.039	ug/l	96
7) Trichlorofluoromethane	1.874	101	42415	18.586	ug/l	98
8) Diethyl Ether	2.130	74	15579	18.823	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	25639	18.594	ug/l	98
10) Methyl Iodide	2.447	142	33551	18.775	ug/l	98
11) Tert butyl alcohol	2.977	59	28954	97.705	ug/l	100
12) 1,1-Dichloroethene	2.312	96	24602	17.491	ug/l	98
13) Acrolein	2.233	56	33787	110.506	ug/l	99
14) Allyl chloride	2.654	41	45724	17.988	ug/l	96
15) Acrylonitrile	3.062	53	78273	98.927	ug/l	100
16) Acetone	2.380	43	63063	98.205	ug/l	100
17) Carbon Disulfide	2.501	76	64096	16.618	ug/l	100
18) Methyl Acetate	2.703	43	40286	19.880	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	83480	18.654	ug/l	99
20) Methylene Chloride	2.782	84	29005	18.440	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	24931	18.010	ug/l	99
22) Diisopropyl ether	3.757	45	90509	18.821	ug/l	92
23) Vinyl Acetate	3.715	43	368403	93.966	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50302	18.694	ug/l	99
25) 2-Butanone	4.556	43	103530	99.286	ug/l	96
26) 2,2-Dichloropropane	4.465	77	37530	17.587	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	30826	18.539	ug/l	100
28) Bromochloromethane	4.891	49	23310	18.026	ug/l	100
29) Tetrahydrofuran	5.001	42	68341	98.700	ug/l	99
30) Chloroform	5.086	83	48606	18.626	ug/l	94
31) Cyclohexane	5.458	56	44168	17.805	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	40279	18.197	ug/l	99
36) 1,1-Dichloropropene	5.684	75	33377	18.198	ug/l	100
37) Ethyl Acetate	4.708	43	39407	19.317	ug/l	100
38) Carbon Tetrachloride	5.672	117	33581	18.684	ug/l	97
39) Methylcyclohexane	7.373	83	46041	19.417	ug/l	99
40) Benzene	6.031	78	108219	18.896	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044924.D
Acq On : 12 Feb 2025 11:46
Operator : JC/MD
Sample : VX0212WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 13 00:48:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations APPROVED

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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	22151	20.286	ug/l		97
42) 1,2-Dichloroethane	6.080	62	36480	19.986	ug/l		98
43) Isopropyl Acetate	6.336	43	63766	19.356	ug/l		99
44) Trichloroethene	7.123	130	24516	18.728	ug/l		97
45) 1,2-Dichloropropane	7.421	63	27915	19.592	ug/l		96
46) Dibromomethane	7.580	93	19165	19.396	ug/l		98
47) Bromodichloromethane	7.818	83	36997	19.337	ug/l		98
48) Methyl methacrylate	7.690	41	31202	20.087	ug/l		97
49) 1,4-Dioxane	7.665	88	14026	420.866	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	212510	106.108	ug/l		97
52) Toluene	8.714	92	66094	19.378	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	34442	17.789	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	41592	19.267	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	26607	20.293	ug/l		97
56) Ethyl methacrylate	9.116	69	40596	19.170	ug/l		98
57) 1,3-Dichloropropane	9.305	76	46702	20.357	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	103937	99.959	ug/l		100
59) 2-Hexanone	9.427	43	153073	106.078	ug/l		97
60) Dibromochloromethane	9.518	129	26674	19.022	ug/l		99
61) 1,2-Dibromoethane	9.610	107	26006	19.569	ug/l		98
64) Tetrachloroethene	9.269	164	20728	19.003	ug/l		97
65) Chlorobenzene	10.073	112	70760	19.047	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	22330	18.675	ug/l		97
67) Ethyl Benzene	10.189	91	124767	19.032	ug/l		99
68) m/p-Xylenes	10.299	106	93995	38.868	ug/l		99
69) o-Xylene	10.640	106	47375	19.524	ug/l		99
70) Styrene	10.652	104	77185	19.743	ug/l		99
71) Bromoform	10.799	173	17281	19.365	ug/l	#	99
73) Isopropylbenzene	10.957	105	119685	18.671	ug/l		100
74) N-amyl acetate	10.841	43	53361	18.396	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	40067	18.190	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	32786m	18.575	ug/l		
77) Bromobenzene	11.195	156	27635	19.015	ug/l		96
78) n-propylbenzene	11.299	91	138789	18.758	ug/l		99
79) 2-Chlorotoluene	11.360	91	85355	18.770	ug/l		99
80) 1,3,5-Trimethylbenzene	11.445	105	100422	19.305	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	10934	15.935	ug/l		90
82) 4-Chlorotoluene	11.451	91	94450	18.774	ug/l		99
83) tert-Butylbenzene	11.713	119	99375	18.884	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	98836	19.251	ug/l		100
85) sec-Butylbenzene	11.890	105	123683	18.980	ug/l		100
86) p-Isopropyltoluene	12.006	119	101272	19.325	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	51486	19.265	ug/l		97
88) 1,4-Dichlorobenzene	12.036	146	49926	18.476	ug/l		98
89) n-Butylbenzene	12.329	91	88204	19.025	ug/l		99
90) Hexachloroethane	12.536	117	16680	16.999	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	50206	19.114	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7523	18.713	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	28292	17.801	ug/l		99
94) Hexachlorobutadiene	13.719	225	11686	18.521	ug/l		98
95) Naphthalene	13.774	128	107107	18.642	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	29556	18.455	ug/l		99

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Sample : VX0212WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 13 00:48:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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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\VX021225\
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Response via : Initial Calibration

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ClientSampleId :
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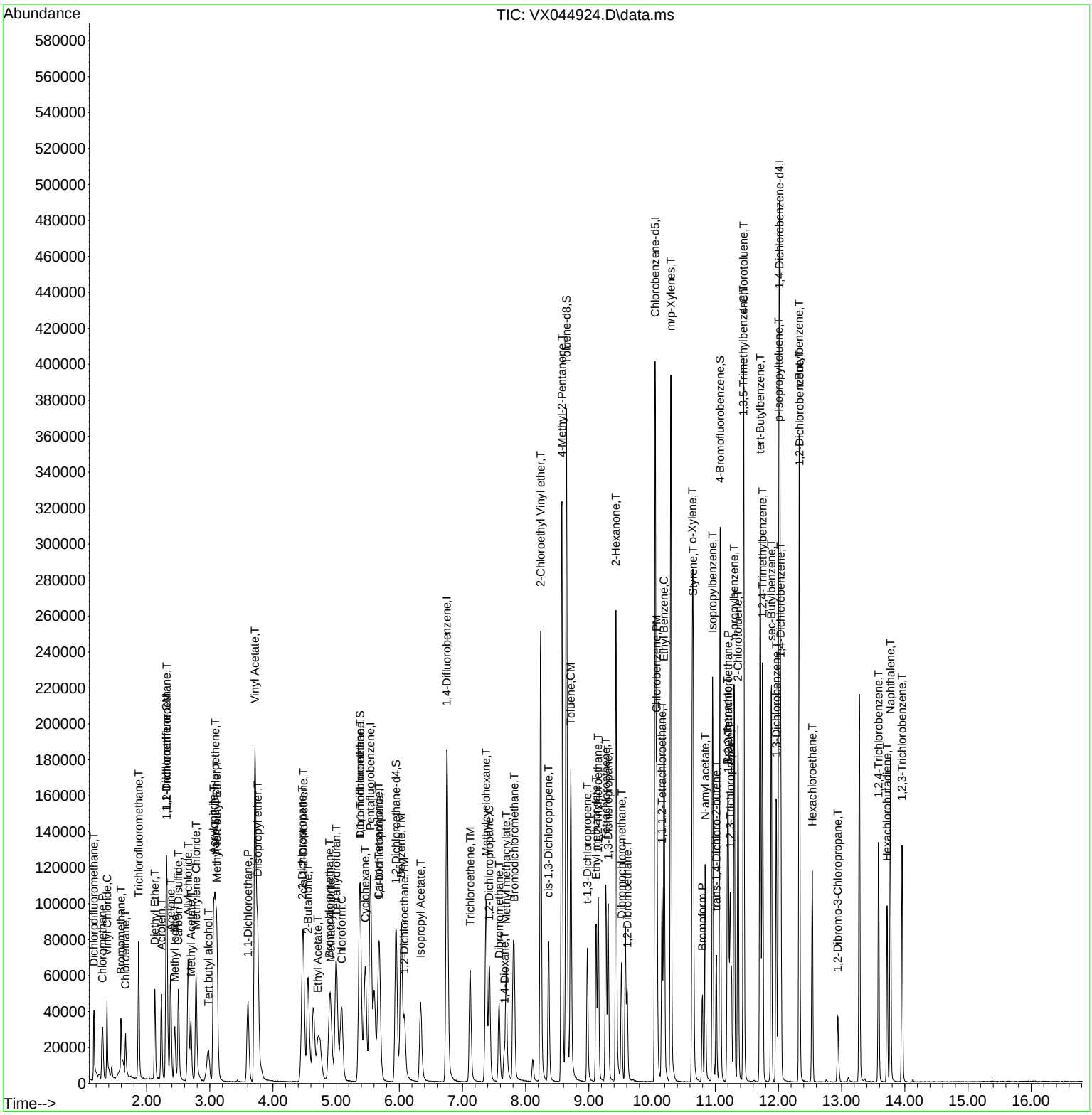
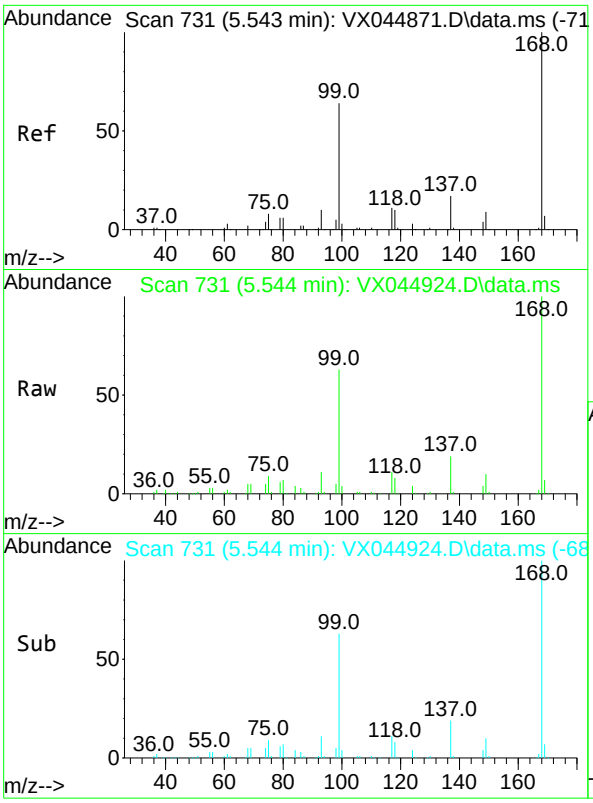
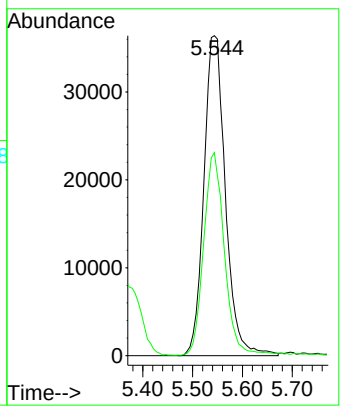




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:168 Resp: 10912

Ion	Ratio	Lower	Upper
168	100		
99	63.2	51.2	76.8



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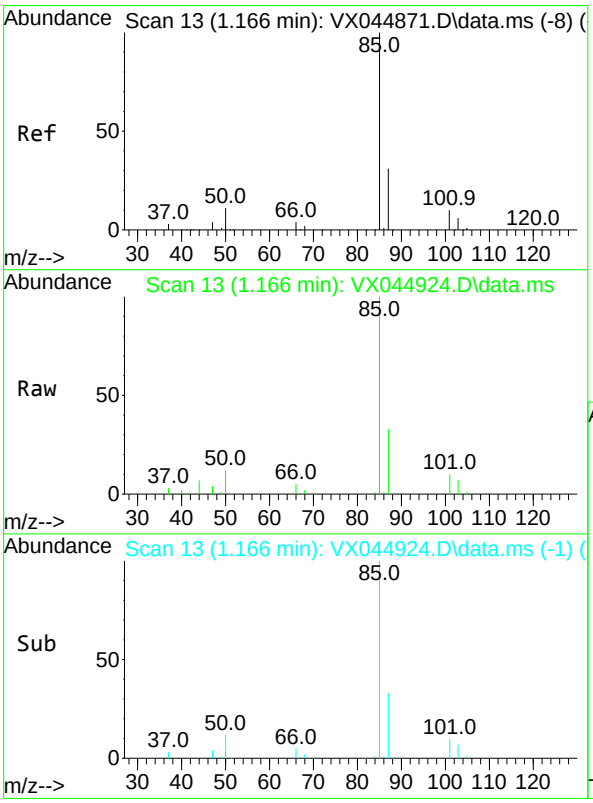
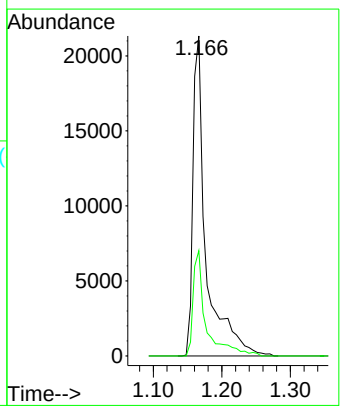
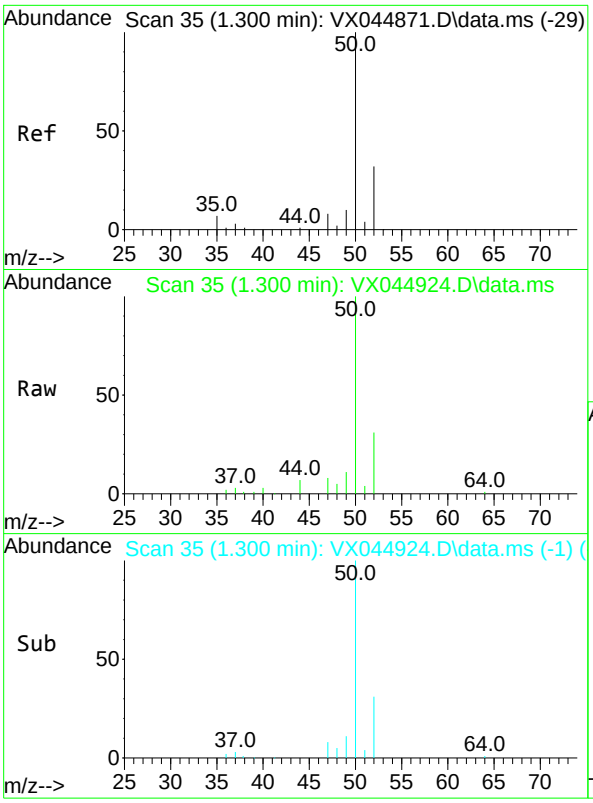


#2
Dichlorodifluoromethane
Concen: 18.535 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 85 Resp: 28368

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3

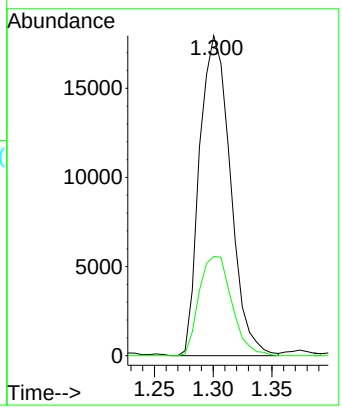




#3
Chloromethane
Concen: 17.571 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 50 Resp: 3273

Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.9	38.9



Instrument :
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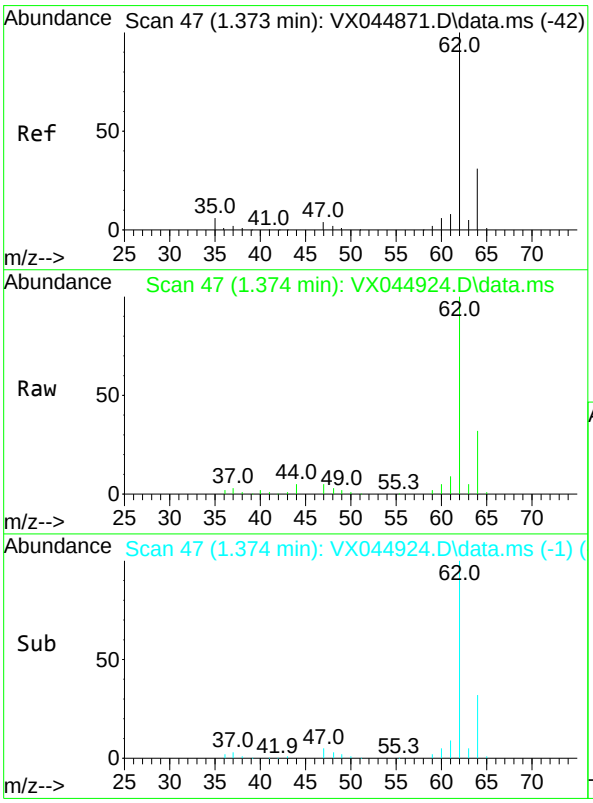
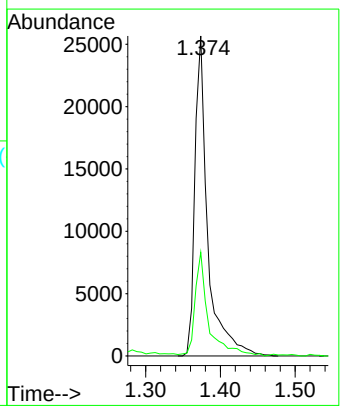
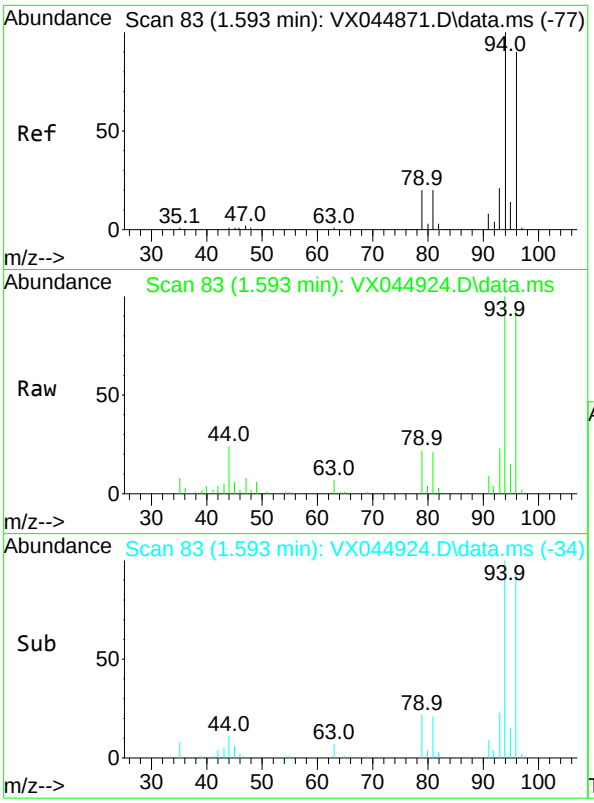


#4
Vinyl Chloride
Concen: 16.897 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 62 Resp: 30493

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0

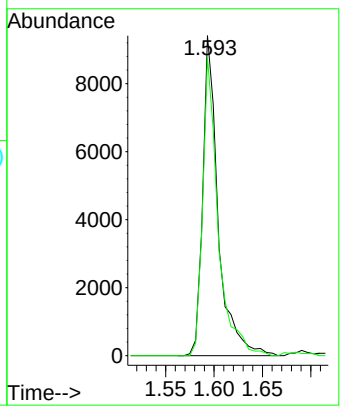




#5
Bromomethane
Concen: 19.444 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 94 Resp: 1050

Ion	Ratio	Lower	Upper
94	100		
96	93.2	71.6	107.4



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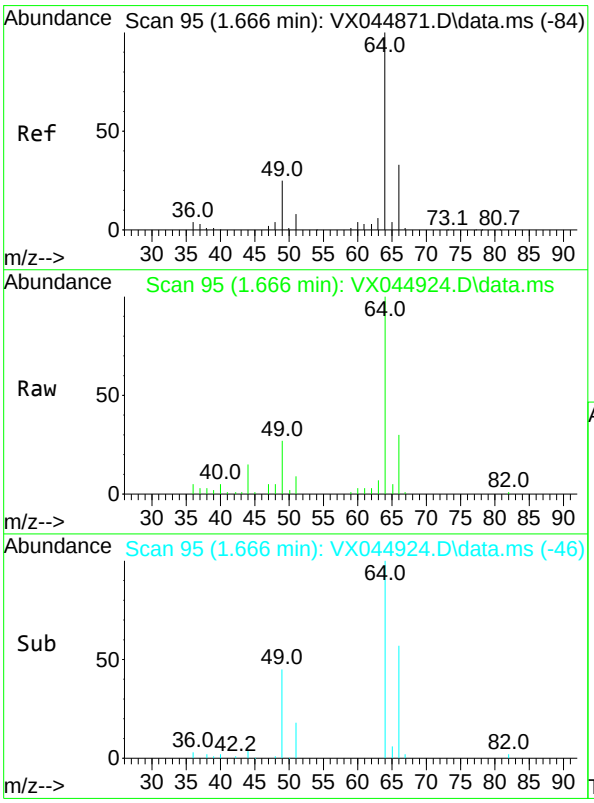
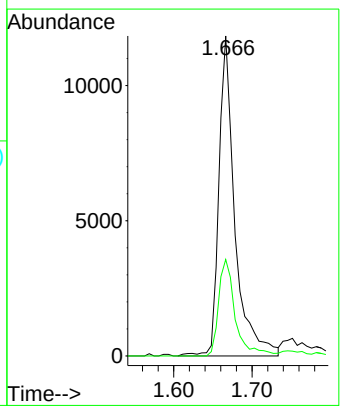
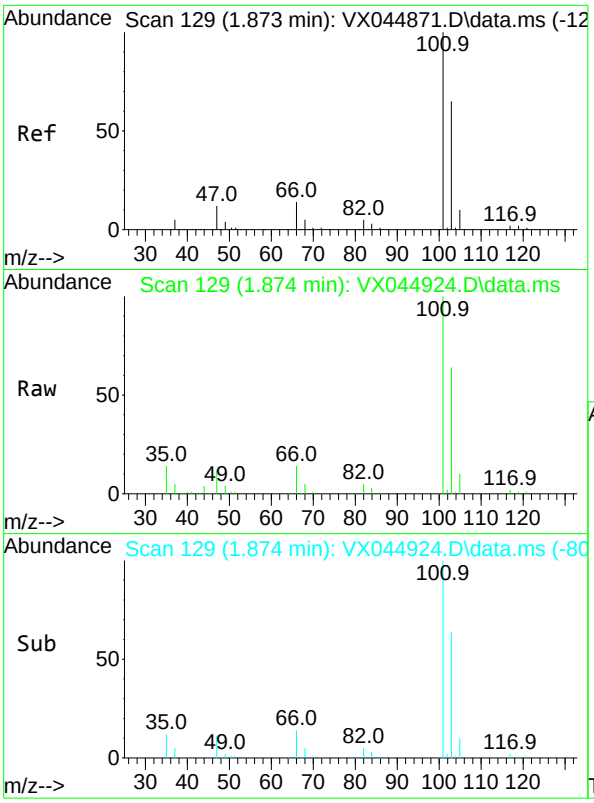


#6
Chloroethane
Concen: 22.039 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 64 Resp: 16764

Ion	Ratio	Lower	Upper
64	100		
66	30.2	25.9	38.9

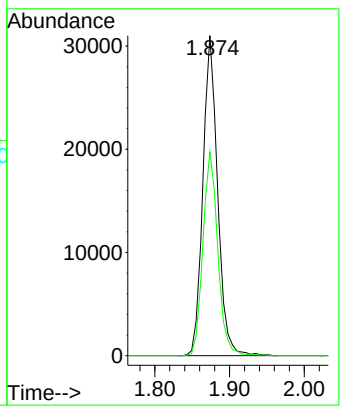




#7
Trichlorofluoromethane
Concen: 18.586 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:101 Resp: 4241

Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.4	78.6



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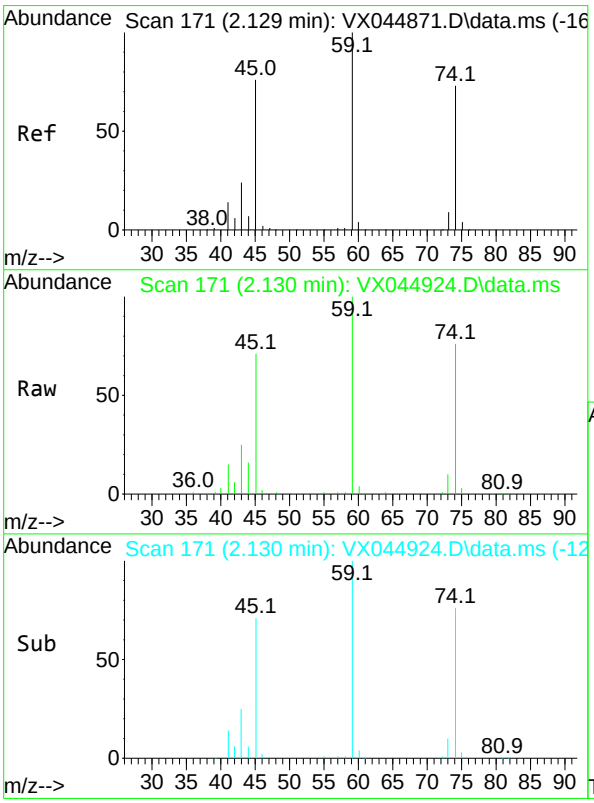
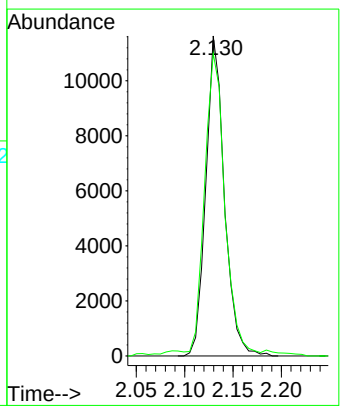
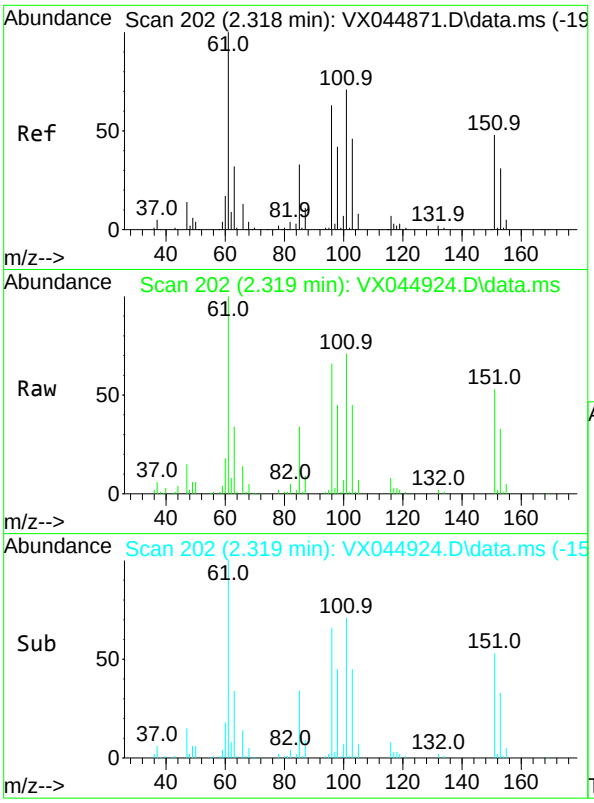


#8
Diethyl Ether
Concen: 18.823 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 74 Resp: 15579

Ion	Ratio	Lower	Upper
74	100		
45	99.5	51.1	153.4

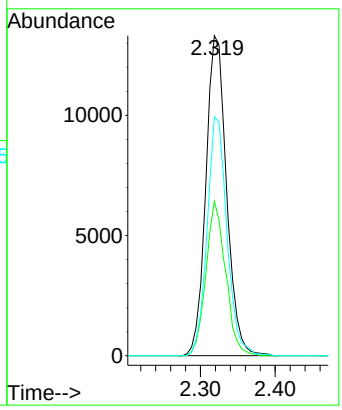




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.594 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:101 Resp: 2563

Ion	Ratio	Lower	Upper
101	100		
85	45.7	35.7	53.5
151	71.7	56.0	84.0



Instrument :
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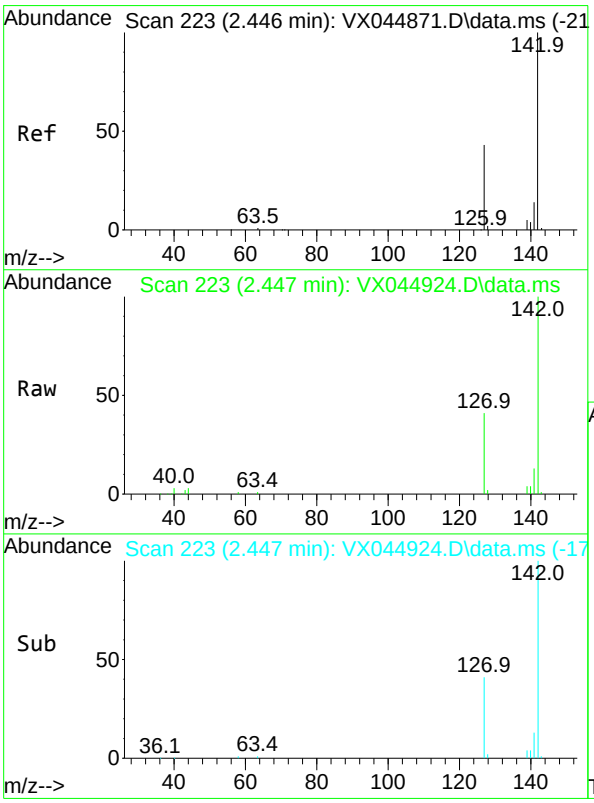
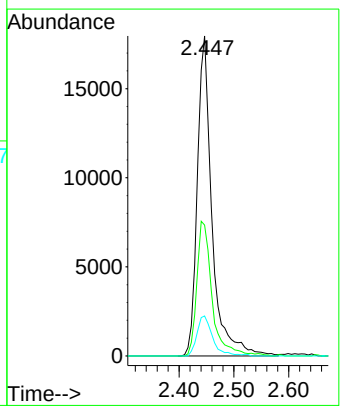
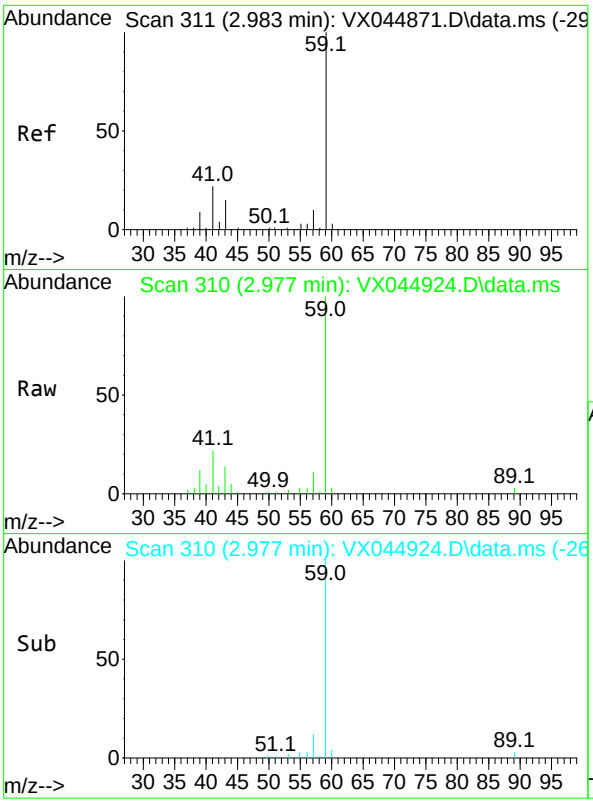


#10
Methyl Iodide
Concen: 18.775 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:142 Resp: 33551

Ion	Ratio	Lower	Upper
142	100		
127	43.9	34.3	51.5
141	13.4	11.4	17.2

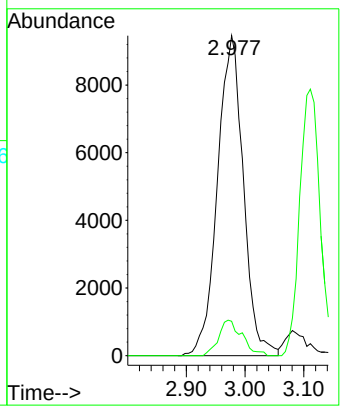




#11
Tert butyl alcohol
Concen: 97.705 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 59 Resp: 2895

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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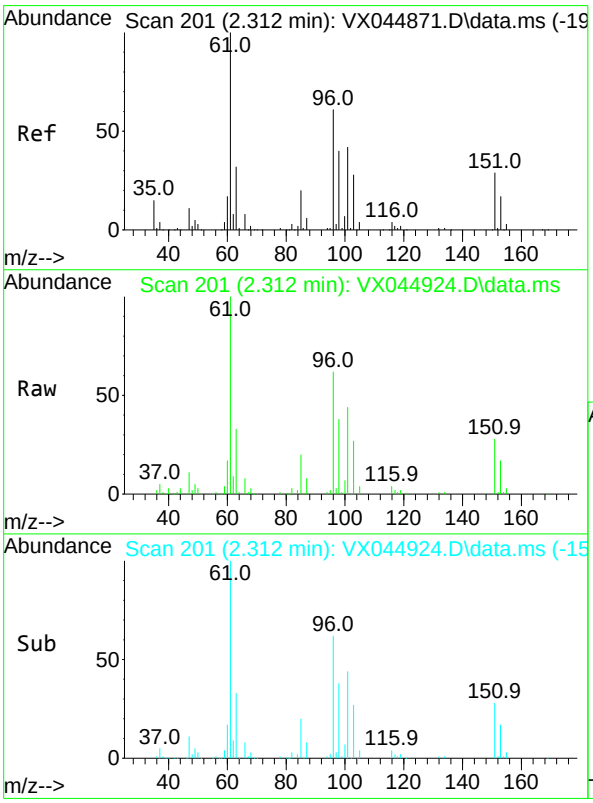
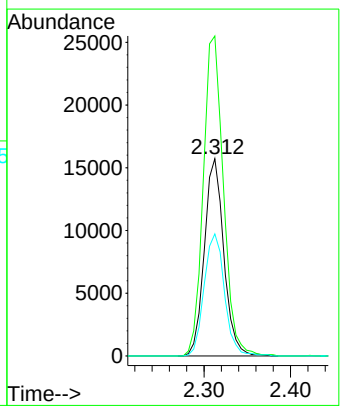
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

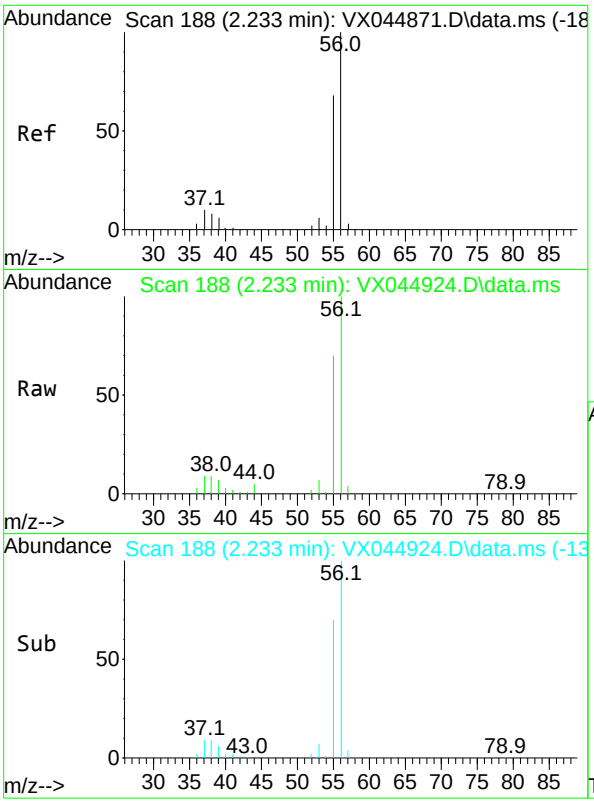


#12
1,1-Dichloroethene
Concen: 17.491 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 96 Resp: 24602

Ion	Ratio	Lower	Upper
96	100		
61	162.1	130.2	195.4
98	61.9	52.2	78.4

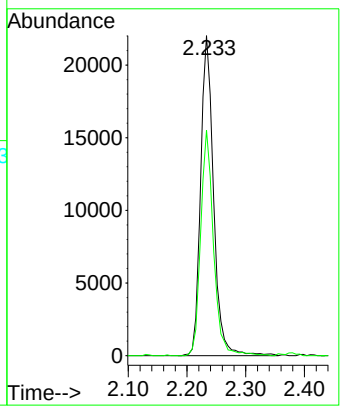




#13
Acrolein
Concen: 110.506 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 56 Resp: 3378

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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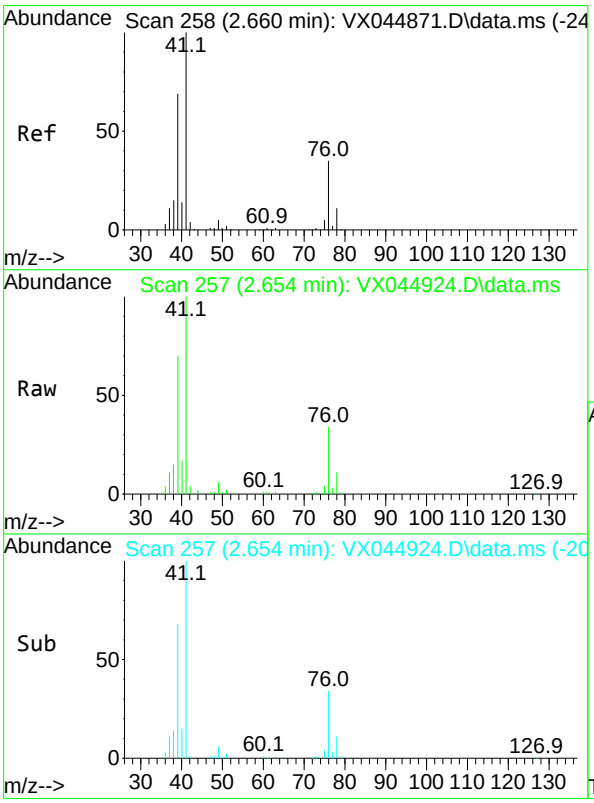
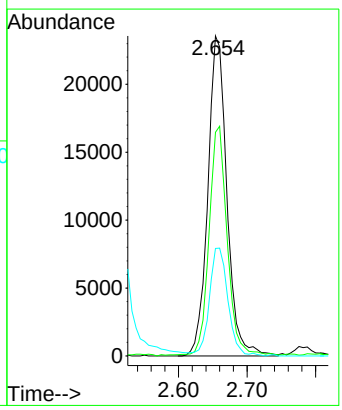
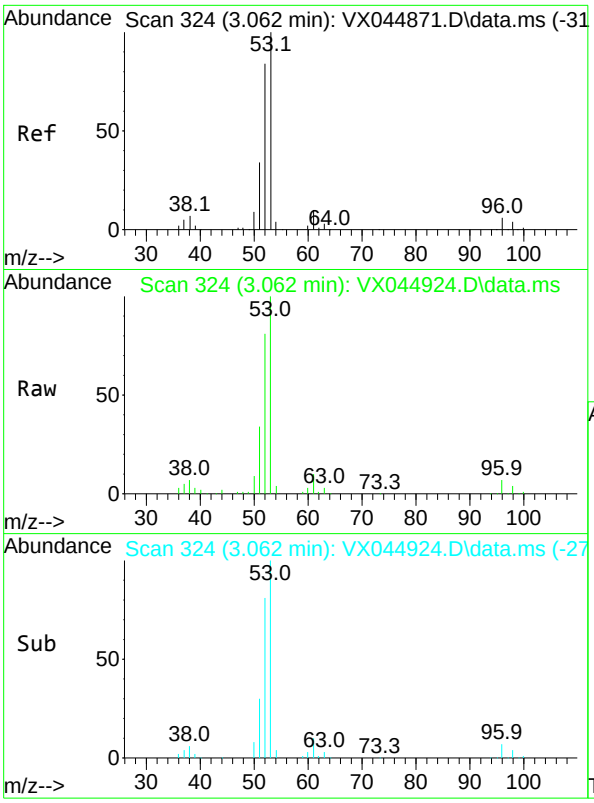


#14
Allyl chloride
Concen: 17.988 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 41 Resp: 45724

Ion	Ratio	Lower	Upper
41	100		
39	68.9	51.4	77.2
76	32.7	27.0	40.4

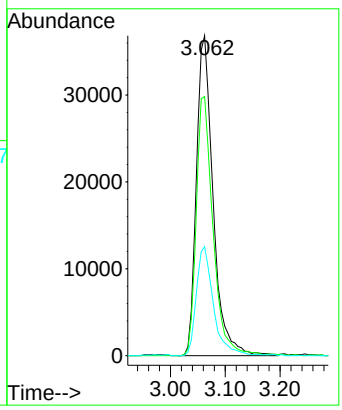




#15
Acrylonitrile
Concen: 98.927 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 53 Resp: 7827

Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.0	97.6
51	35.1	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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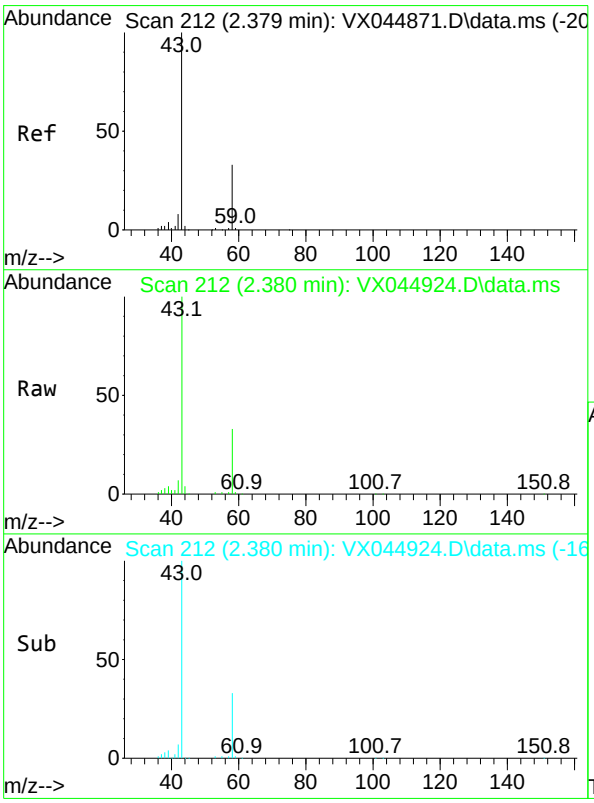
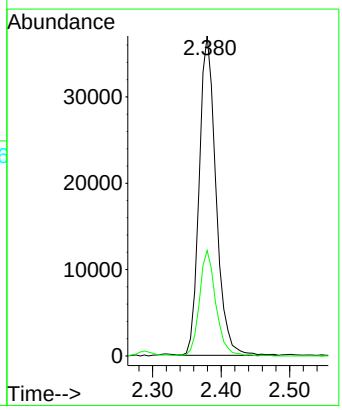
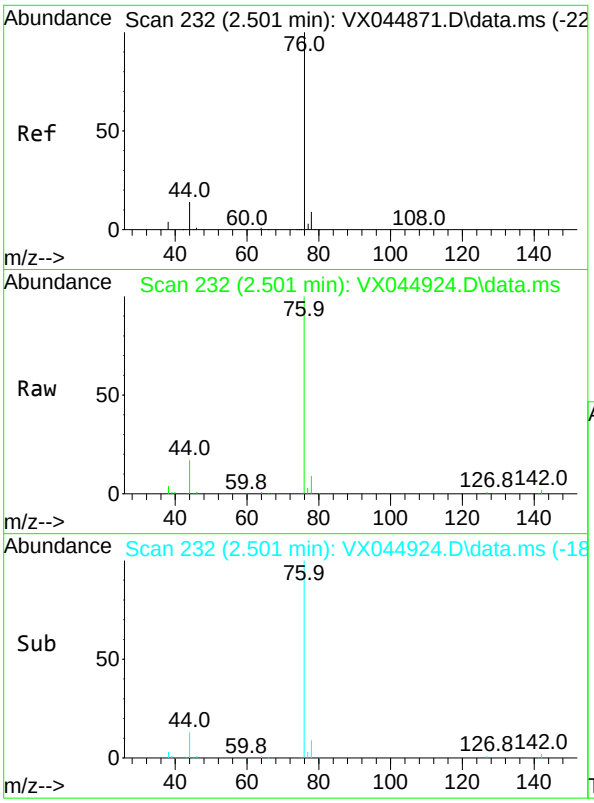


#16
Acetone
Concen: 98.205 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 63063

Ion	Ratio	Lower	Upper
43	100		
58	33.0	26.5	39.7

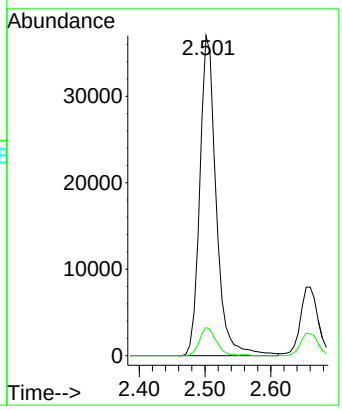




#17
Carbon Disulfide
Concen: 16.618 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 76 Resp: 6409

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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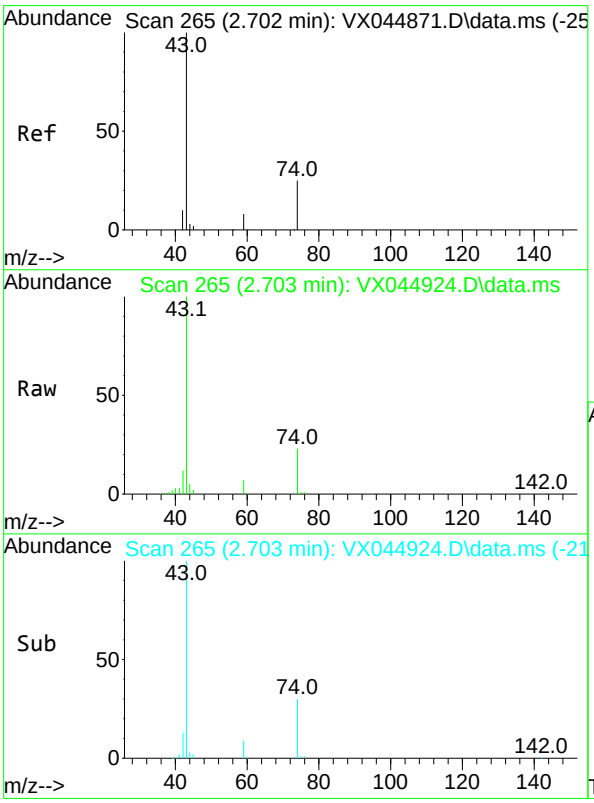
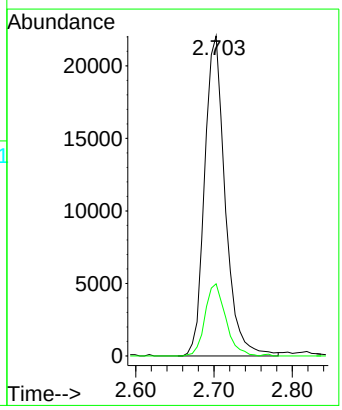
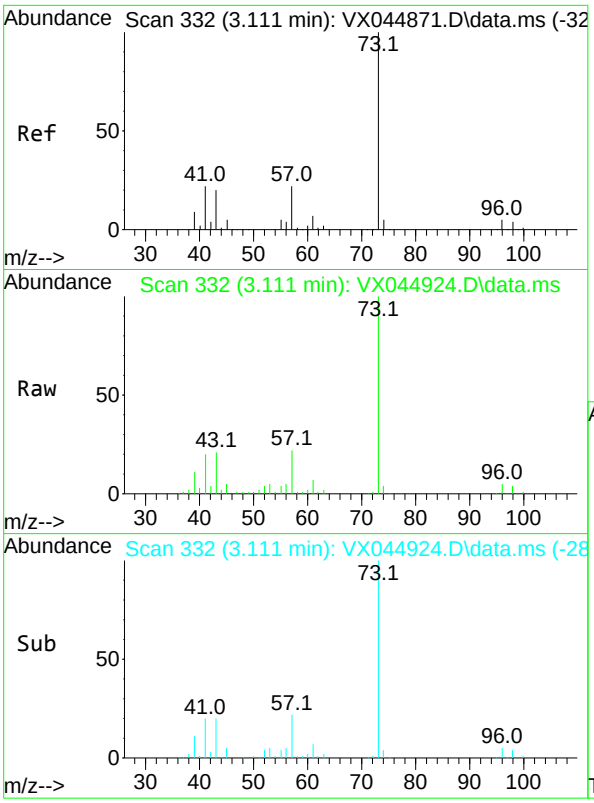


#18
Methyl Acetate
Concen: 19.880 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 40286

Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.9	28.3

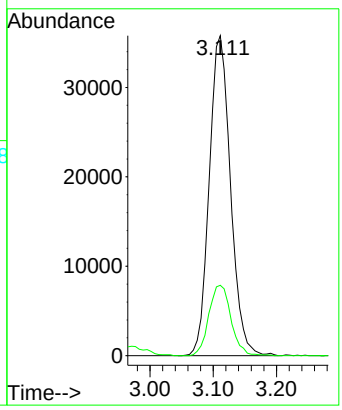




#19
Methyl tert-butyl Ether
Concen: 18.654 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 73 Resp: 8348

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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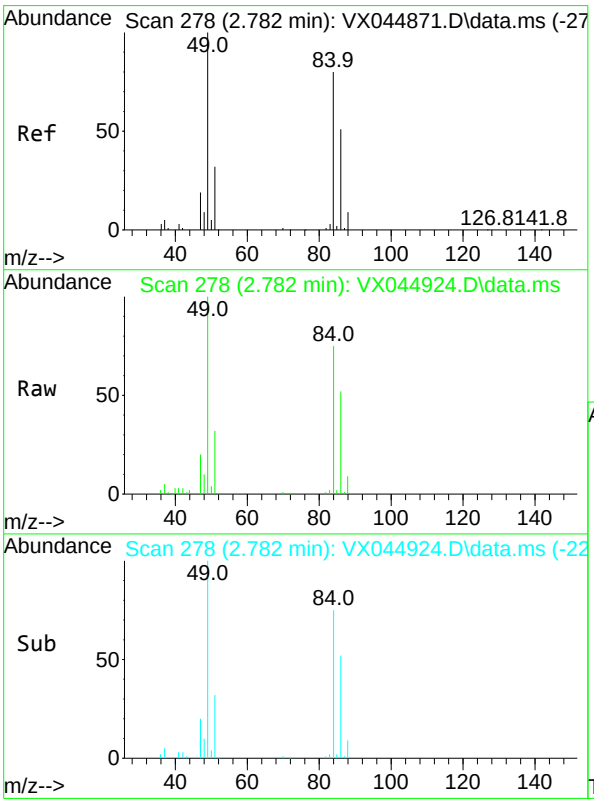
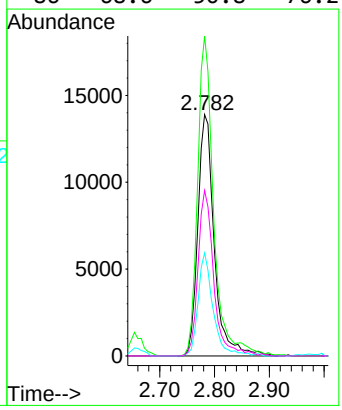
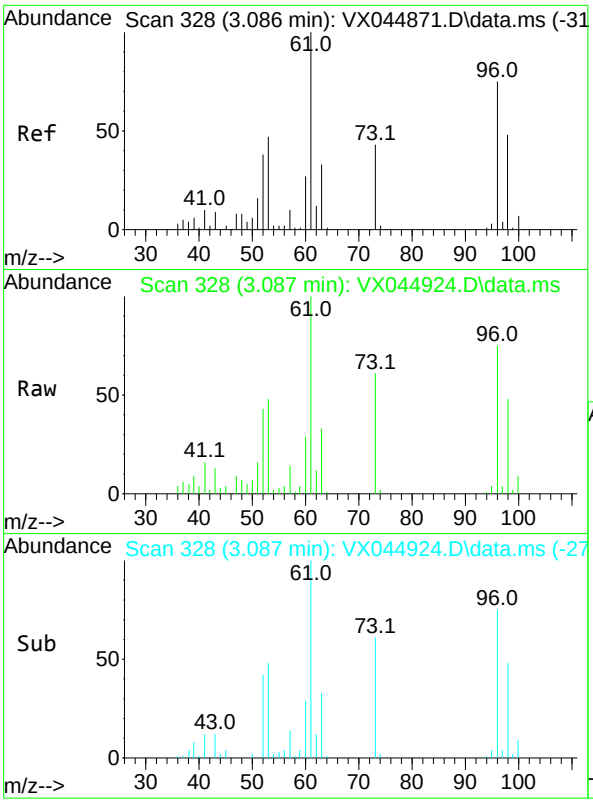


#20
Methylene Chloride
Concen: 18.440 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 84 Resp: 29005

Ion	Ratio	Lower	Upper
84	100		
49	132.6	100.1	150.1
51	42.7	31.7	47.5
86	68.6	50.8	76.2

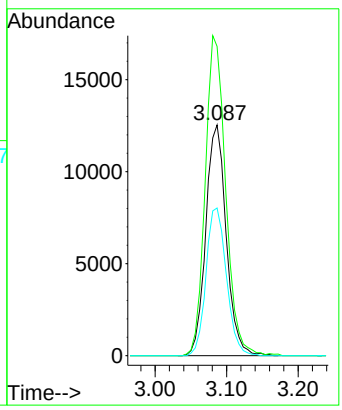




#21
trans-1,2-Dichloroethene
Concen: 18.010 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 96 Resp: 2493

Ion	Ratio	Lower	Upper
96	100		
61	134.1	106.0	159.0
98	64.0	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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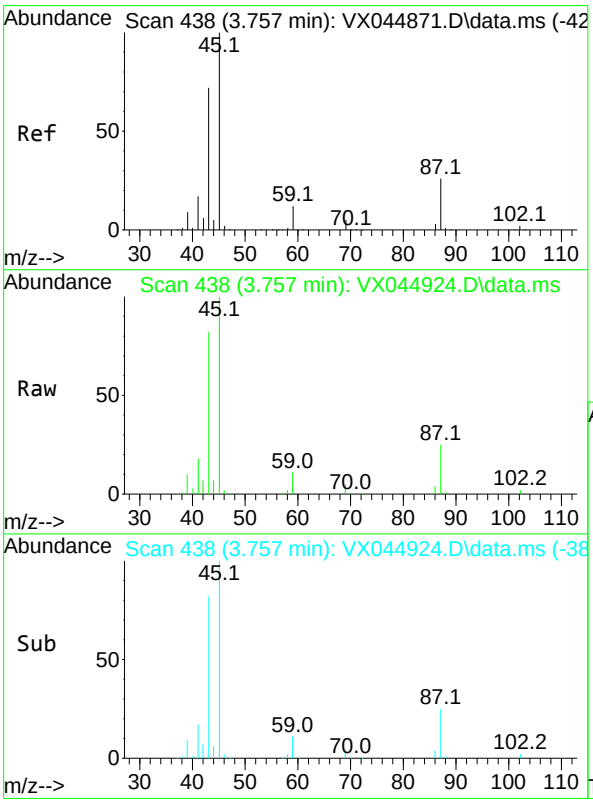
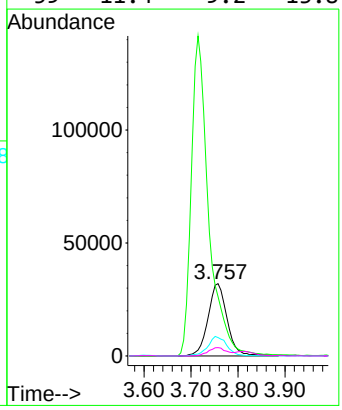
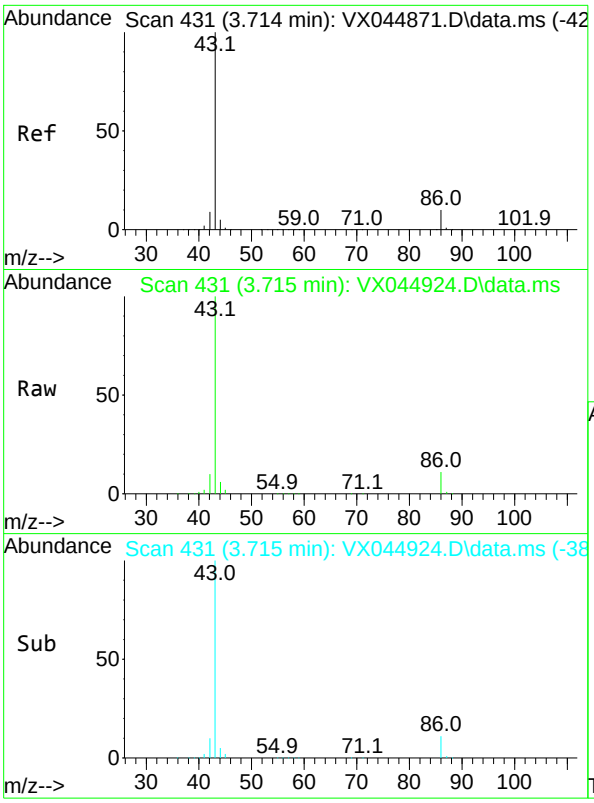


#22
Diisopropyl ether
Concen: 18.821 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 45 Resp: 90509

Ion	Ratio	Lower	Upper
45	100		
43	81.8	58.0	87.0
87	25.5	20.7	31.1
59	11.4	9.2	13.8





#23
Vinyl Acetate
Concen: 93.966 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 36840

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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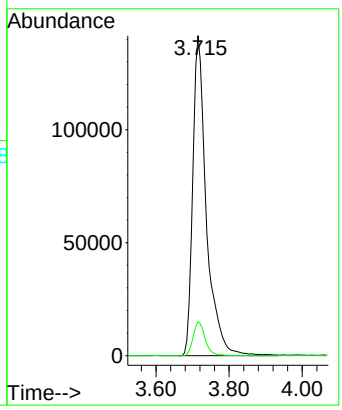
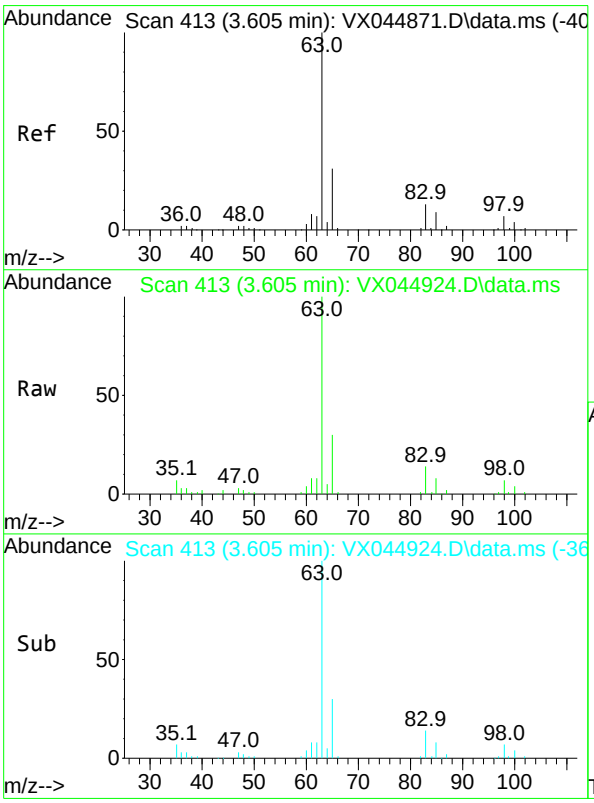
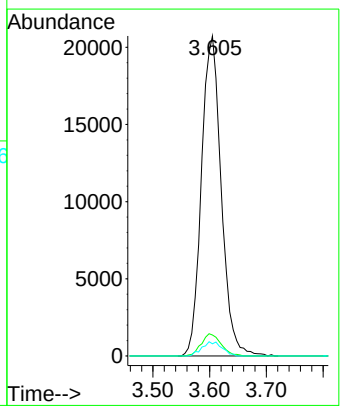


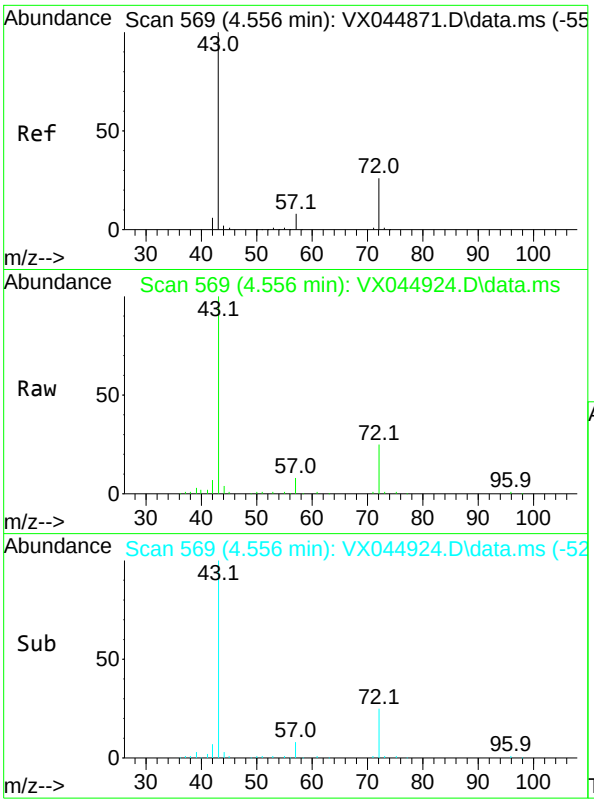


#24
1,1-Dichloroethane
Concen: 18.694 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 63 Resp: 50302

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.9
100	3.8	2.1	6.5

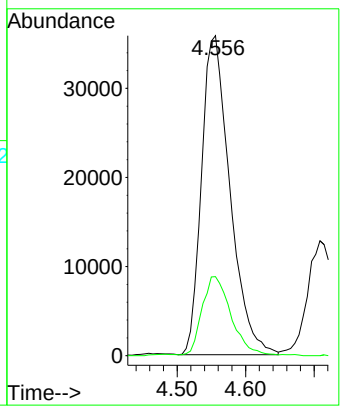




#25
2-Butanone
Concen: 99.286 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 10353

Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.2	31.8



Instrument :
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ClientSampleId :
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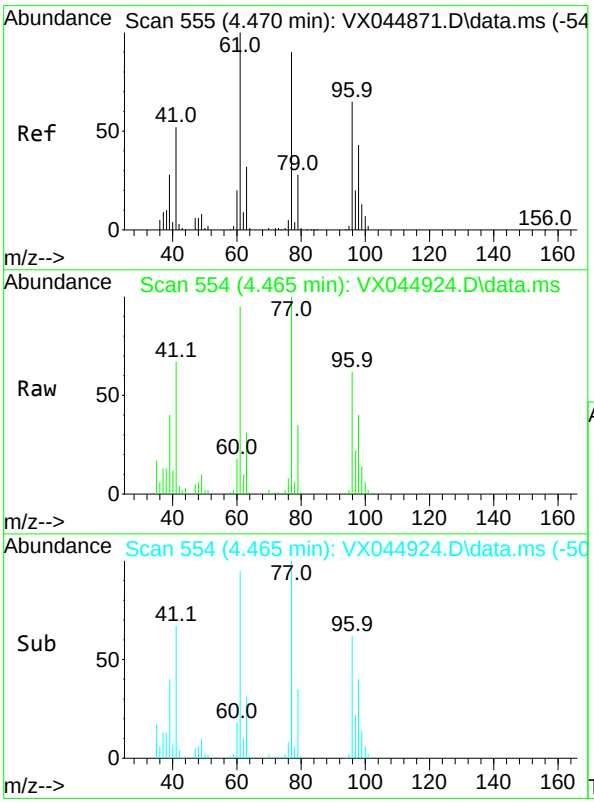
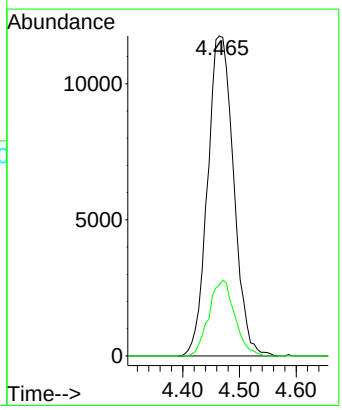
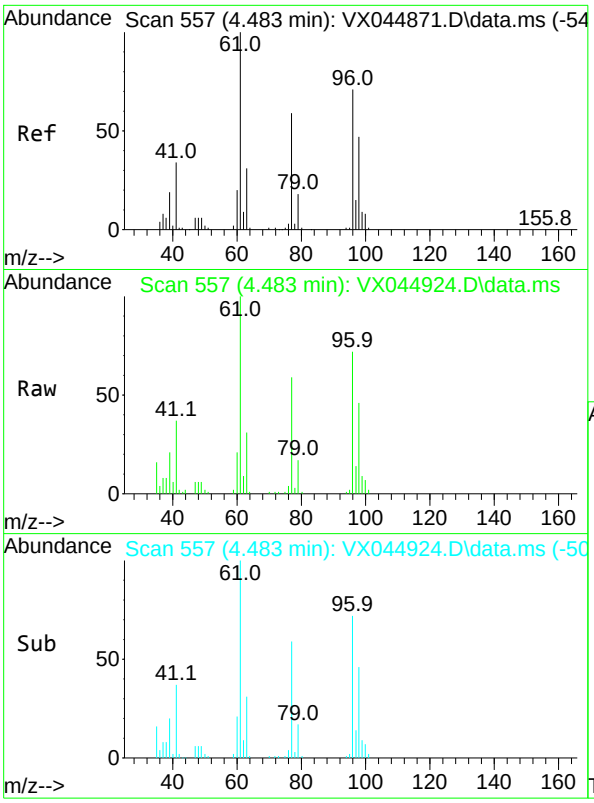


#26
2,2-Dichloropropane
Concen: 17.587 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 77 Resp: 37530

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.8	35.3

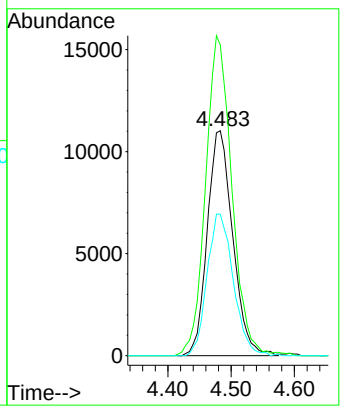




#27
cis-1,2-Dichloroethene
Concen: 18.539 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 96 Resp: 3082

Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	294.0
98	64.7	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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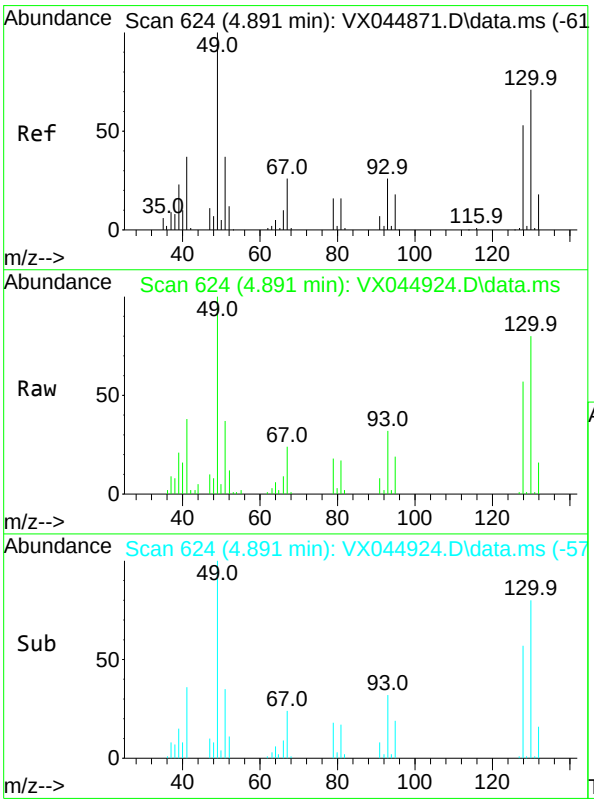
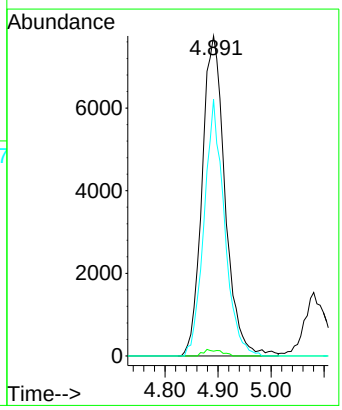
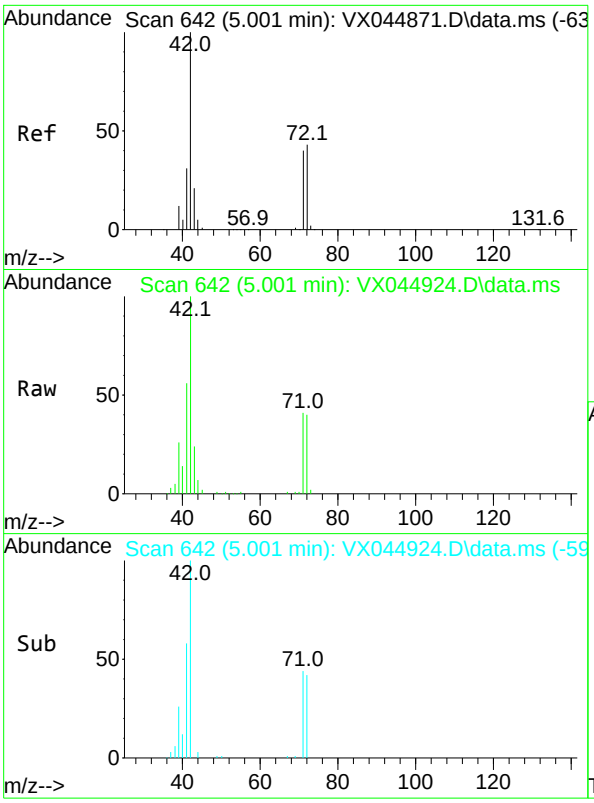


#28
Bromochloromethane
Concen: 18.026 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 49 Resp: 23310

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.6
130	70.8	56.7	85.1





#29
Tetrahydrofuran
Concen: 98.700 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 42 Resp: 6834

Ion	Ratio	Lower	Upper
42	100		
72	42.9	35.0	52.4
71	40.7	32.6	48.8

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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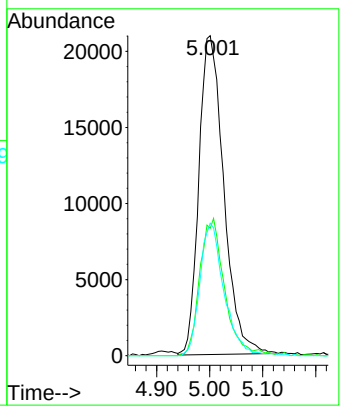
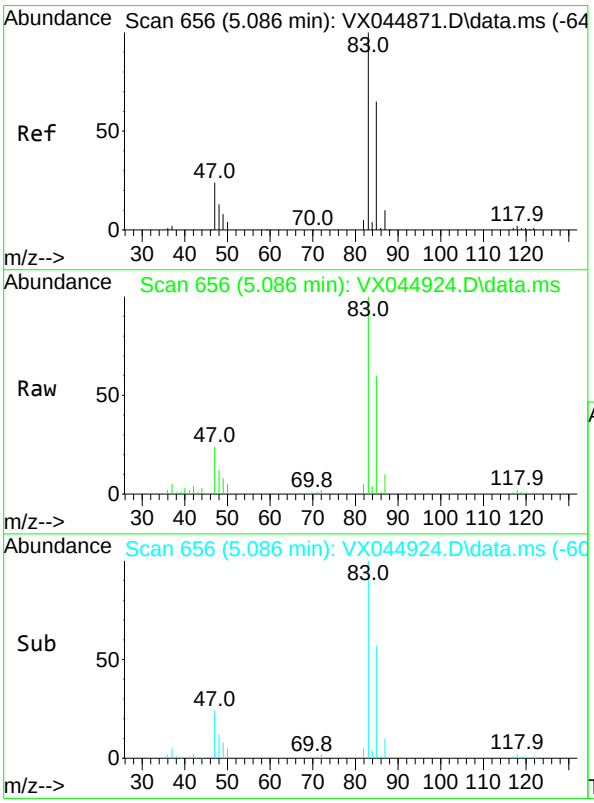
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

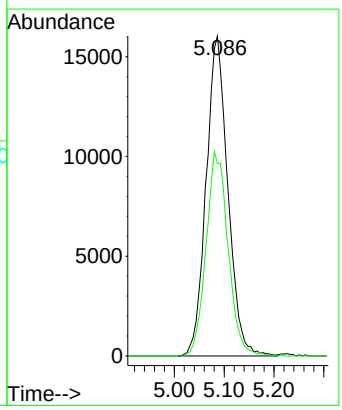


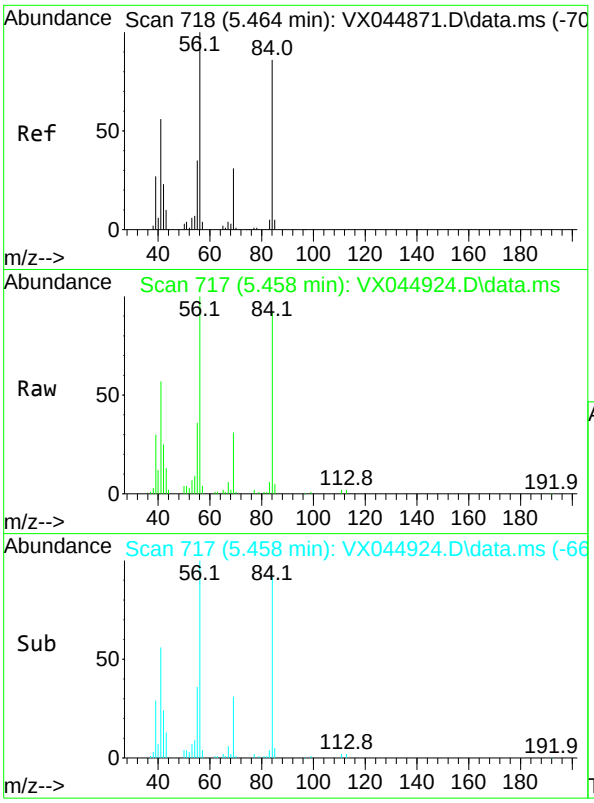


#30
Chloroform
Concen: 18.626 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 83 Resp: 48606

Ion	Ratio	Lower	Upper
83	100		
85	60.2	52.1	78.1

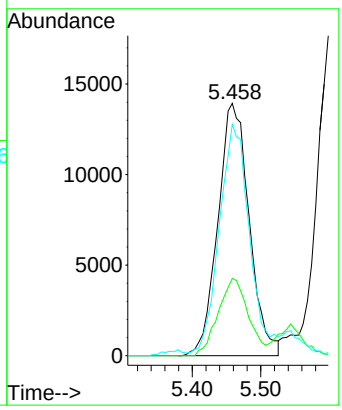




#31
Cyclohexane
Concen: 17.805 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 56 Resp: 4416

Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.4	36.6
84	89.4	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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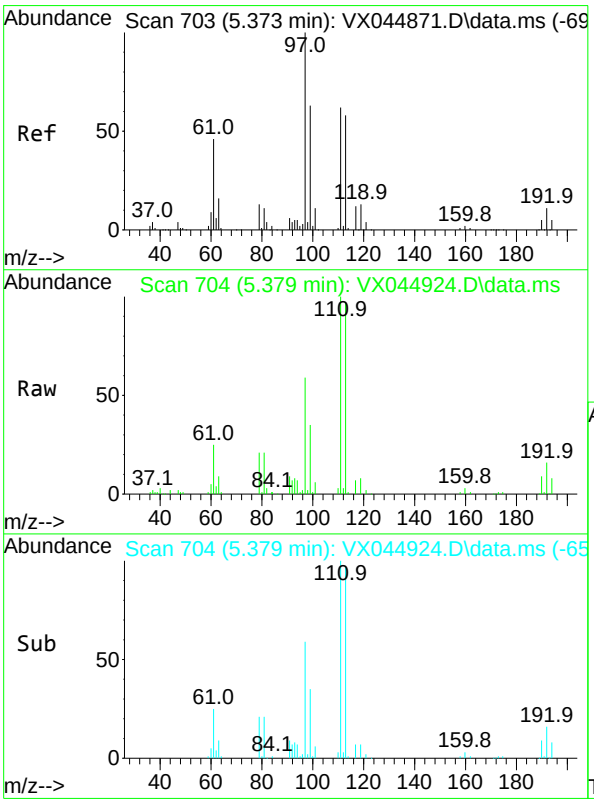
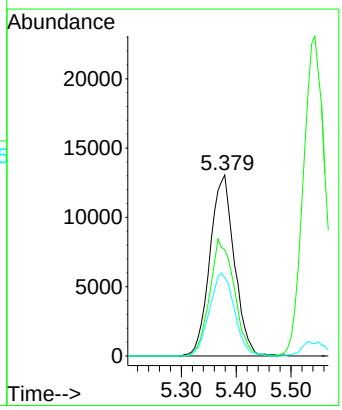
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

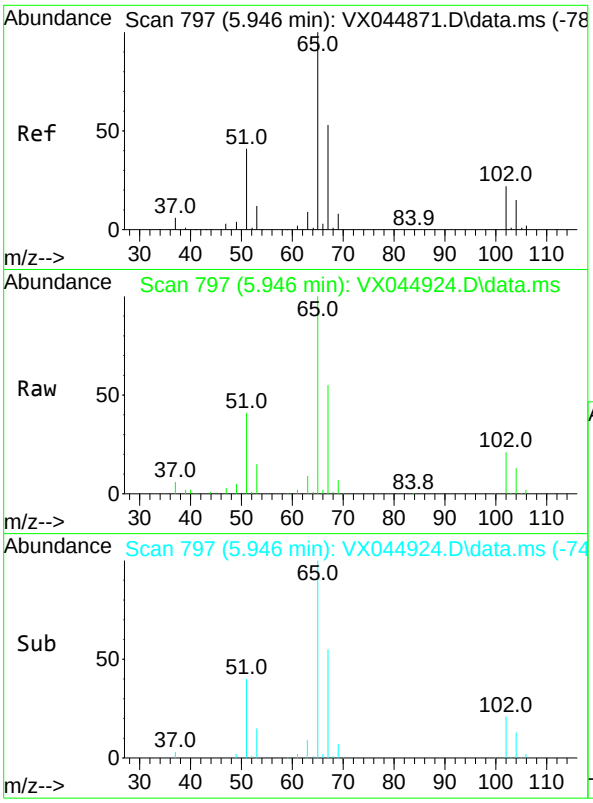


#32
1,1,1-Trichloroethane
Concen: 18.197 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 97 Resp: 40279

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.0	76.6
61	47.0	36.6	55.0

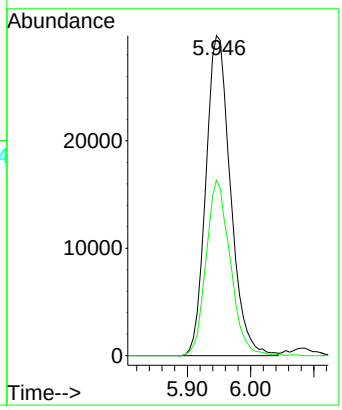




#33
1,2-Dichloroethane-d4
Concen: 50.403 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 65 Resp: 8051

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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Reviewed By :John Carlone 02/14/2025
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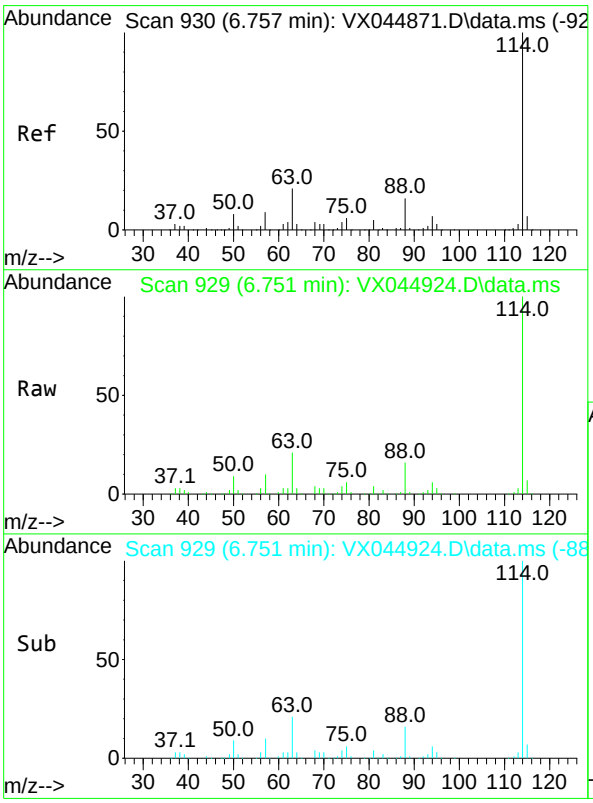
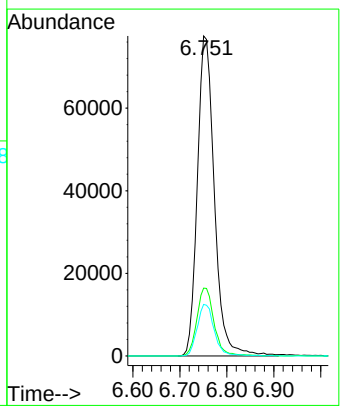
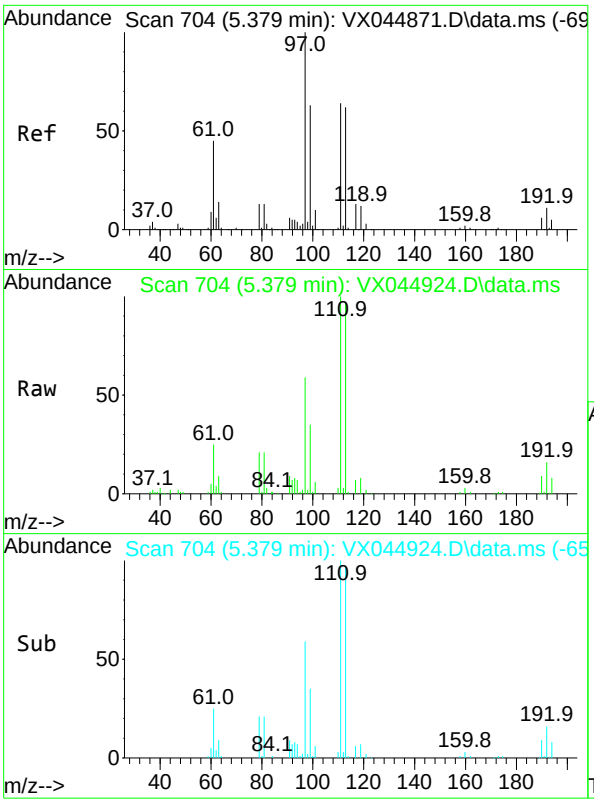


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:114 Resp: 195530

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.1	0.0	31.4

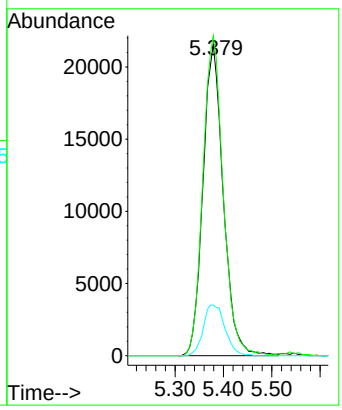




#35
Dibromofluoromethane
Concen: 49.460 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:113 Resp: 6287

Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.5	125.3
192	17.4	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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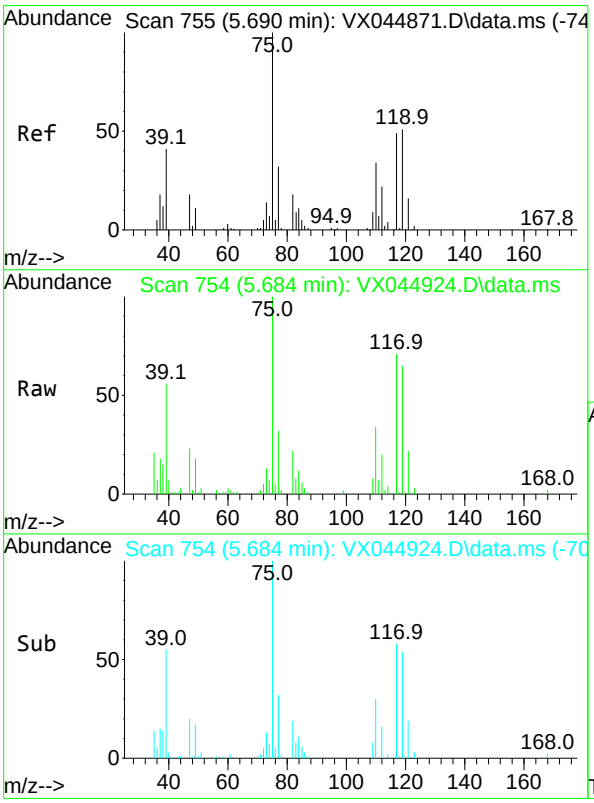
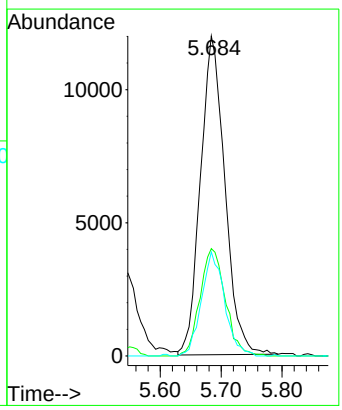
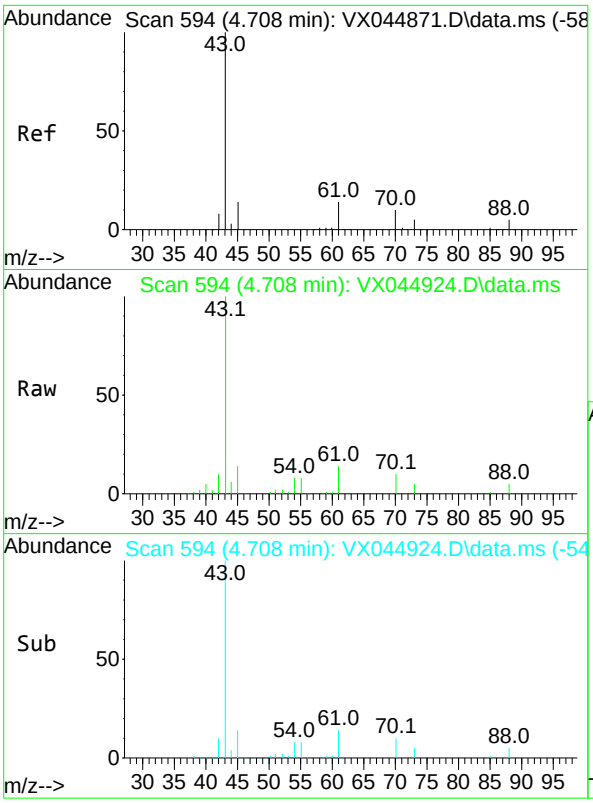


#36
1,1-Dichloropropene
Concen: 18.198 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 33377

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.2	51.6
77	30.8	24.6	37.0

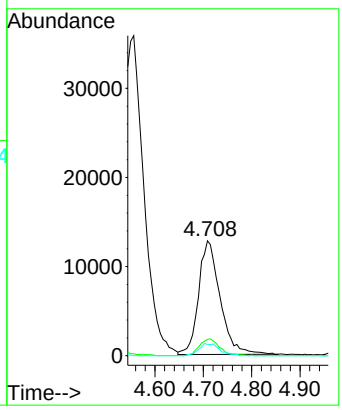




#37
Ethyl Acetate
Concen: 19.317 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 3940

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.4
70	10.3	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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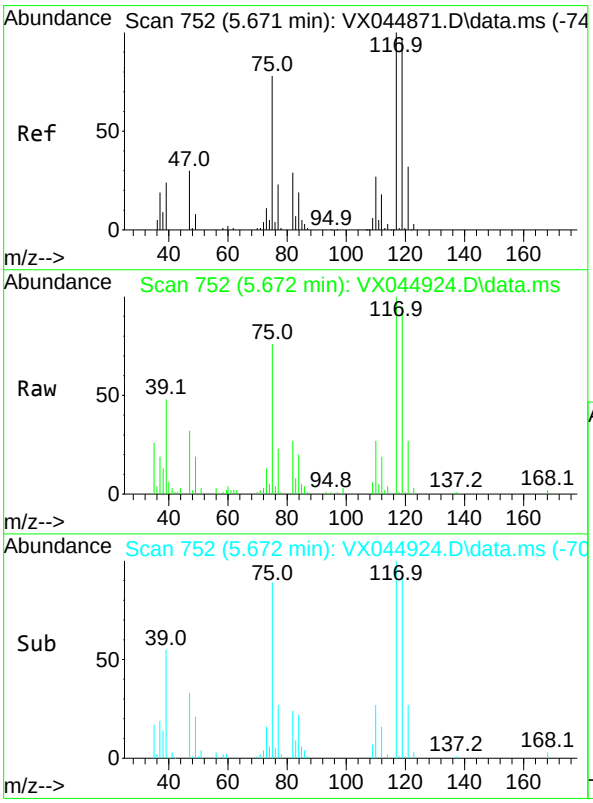
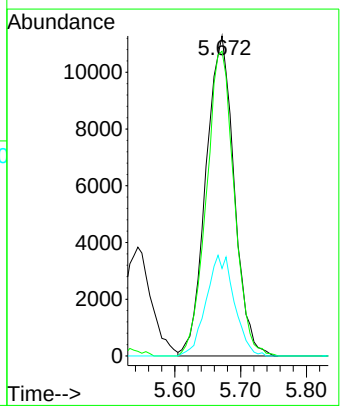
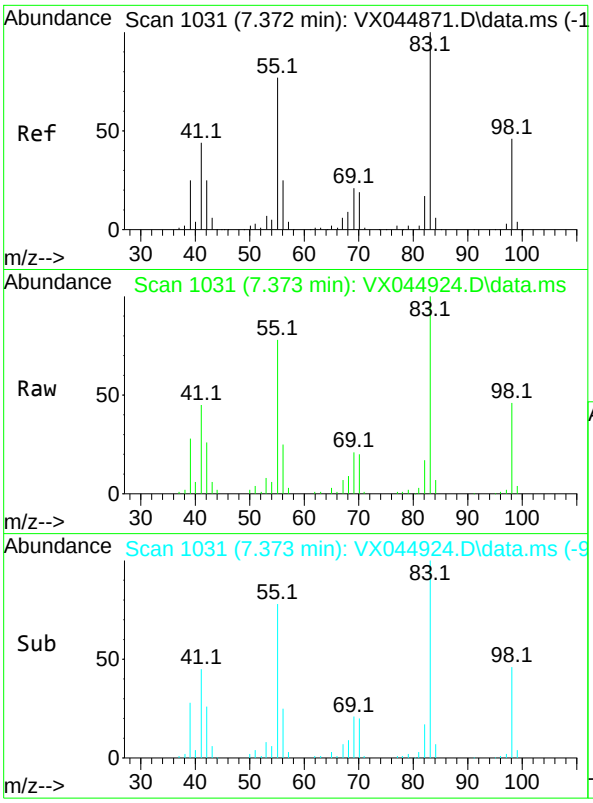


#38
Carbon Tetrachloride
Concen: 18.684 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:117 Resp: 33581

Ion	Ratio	Lower	Upper
117	100		
119	95.3	77.5	116.3
121	27.3	25.6	38.4

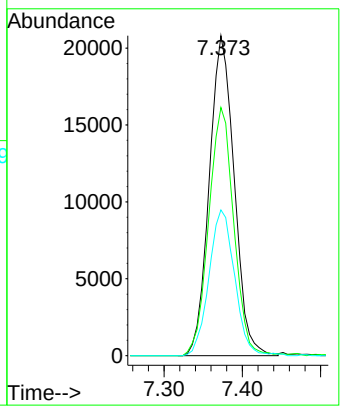




#39
Methylcyclohexane
Concen: 19.417 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 83 Resp: 4604

Ion	Ratio	Lower	Upper
83	100		
55	77.5	61.3	91.9
98	45.5	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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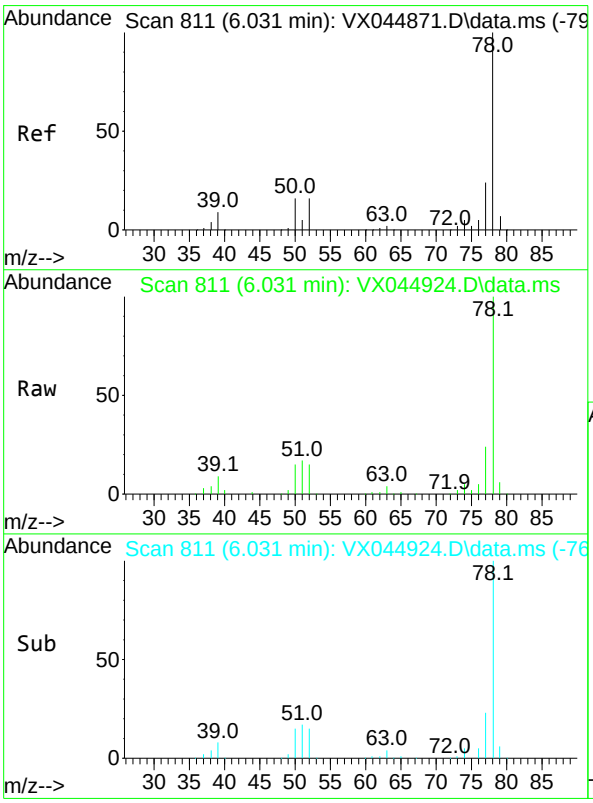
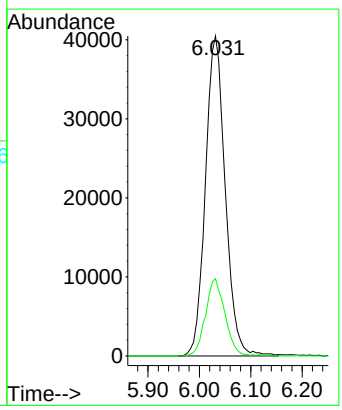
Supervised By :Mahesh Dadoda 02/14/2025

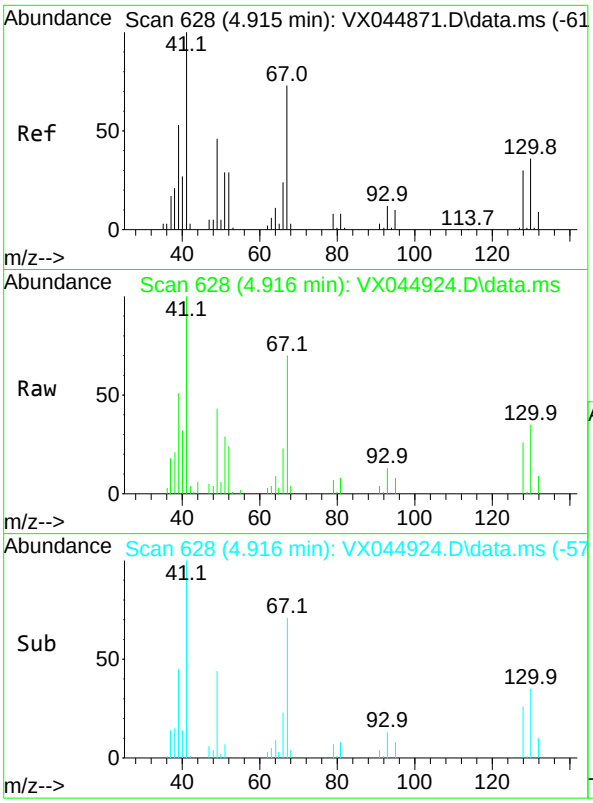


#40
Benzene
Concen: 18.896 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 78 Resp: 108219

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6

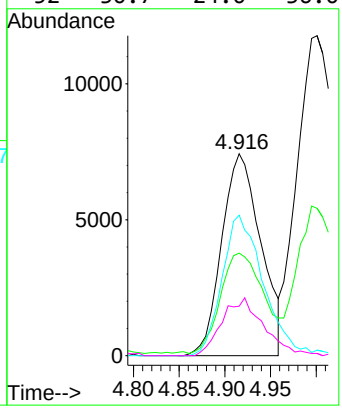




#41
Methacrylonitrile
Concen: 20.286 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 41 Resp: 2215

Ion	Ratio	Lower	Upper
41	100		
39	56.3	43.1	64.7
67	73.8	57.0	85.6
52	30.7	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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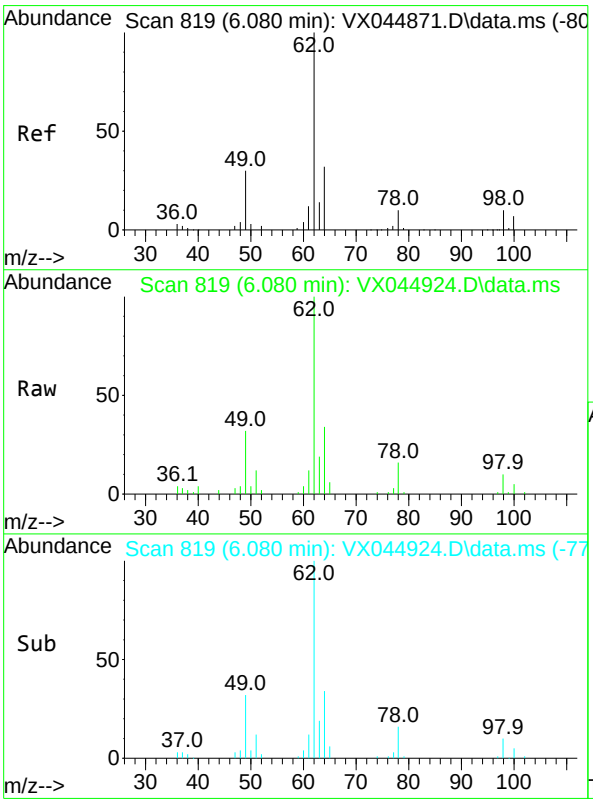
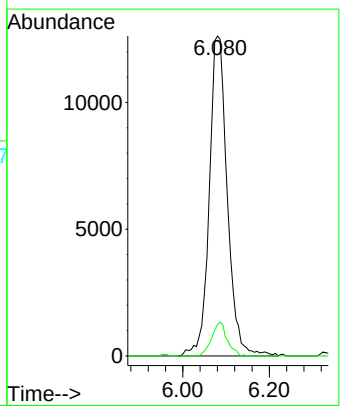
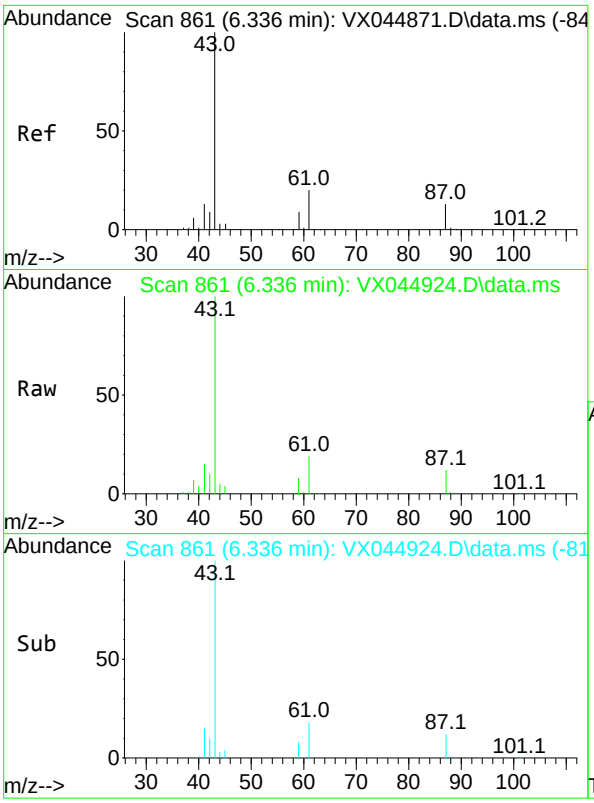


#42
1,2-Dichloroethane
Concen: 19.986 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 62 Resp: 36480

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	19.4

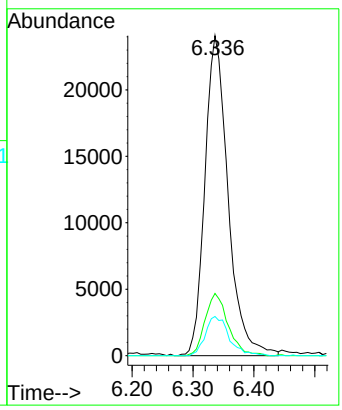




#43
Isopropyl Acetate
Concen: 19.356 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 6376

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.8	23.8
87	12.5	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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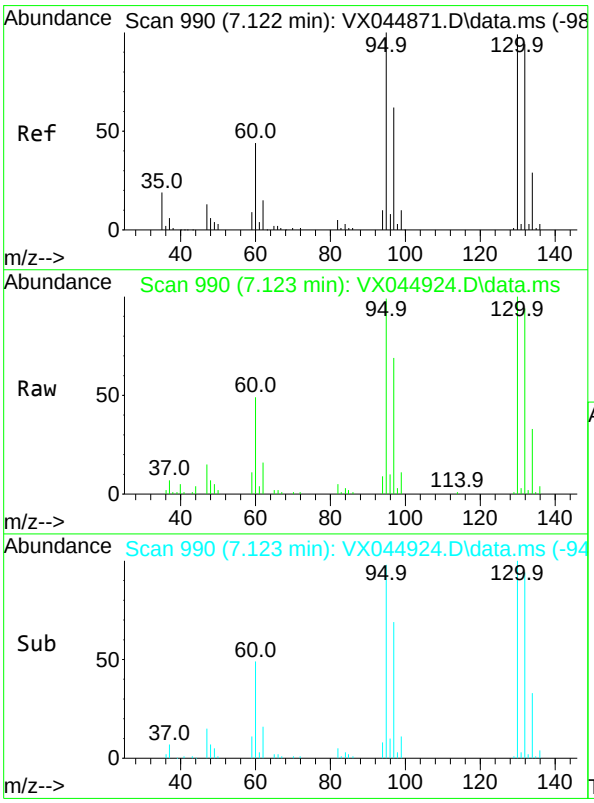
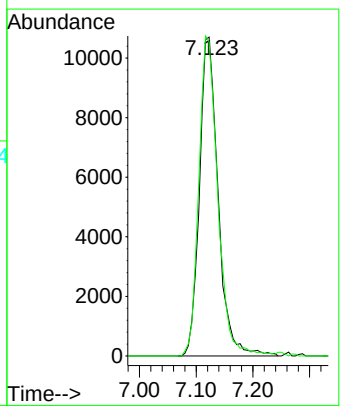
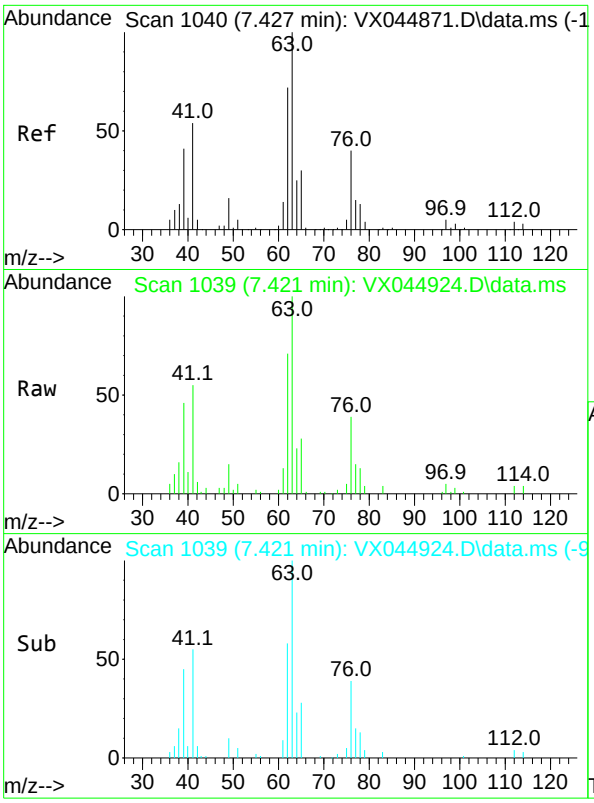


#44
Trichloroethene
Concen: 18.728 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:130 Resp: 24516

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	202.4

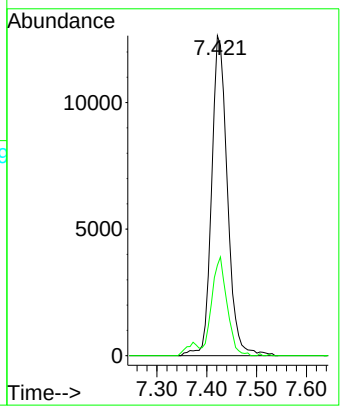




#45
1,2-Dichloropropane
Concen: 19.592 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 63 Resp: 2791

Ion	Ratio	Lower	Upper
63	100		
65	28.2	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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Reviewed By :John Carlone 02/14/2025
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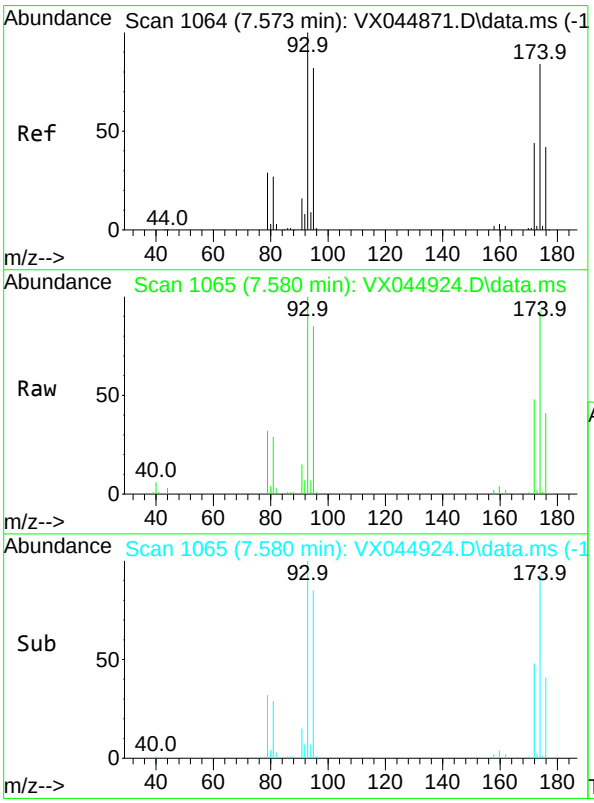
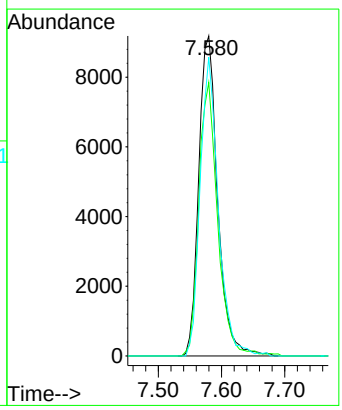
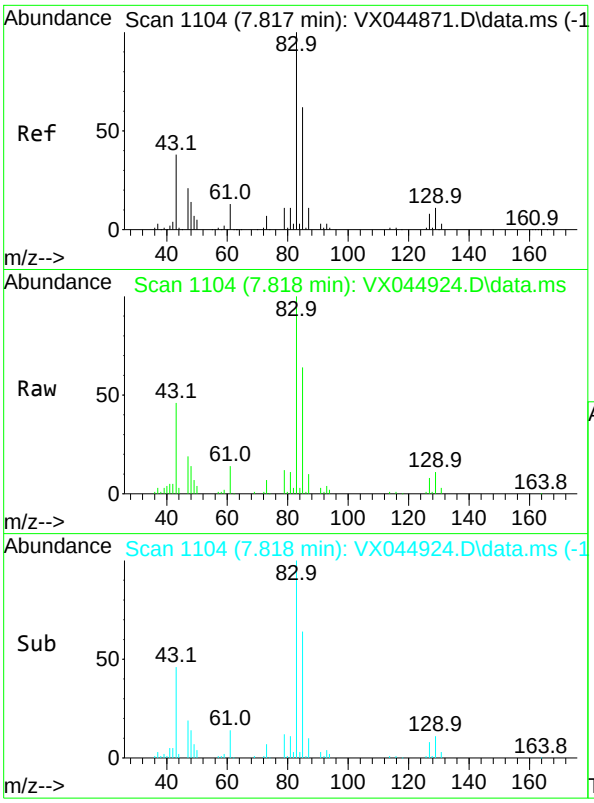


#46
Dibromomethane
Concen: 19.396 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 93 Resp: 19165

Ion	Ratio	Lower	Upper
93	100		
95	84.6	66.2	99.4
174	89.8	69.9	104.9

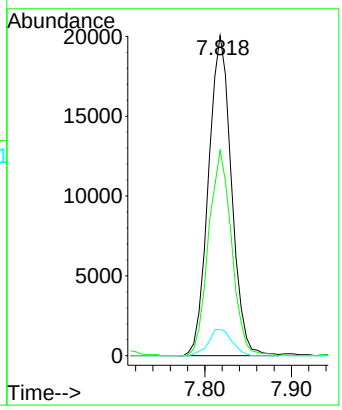




#47
Bromodichloromethane
Concen: 19.337 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 83 Resp: 3699

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.0	75.0
127	8.2	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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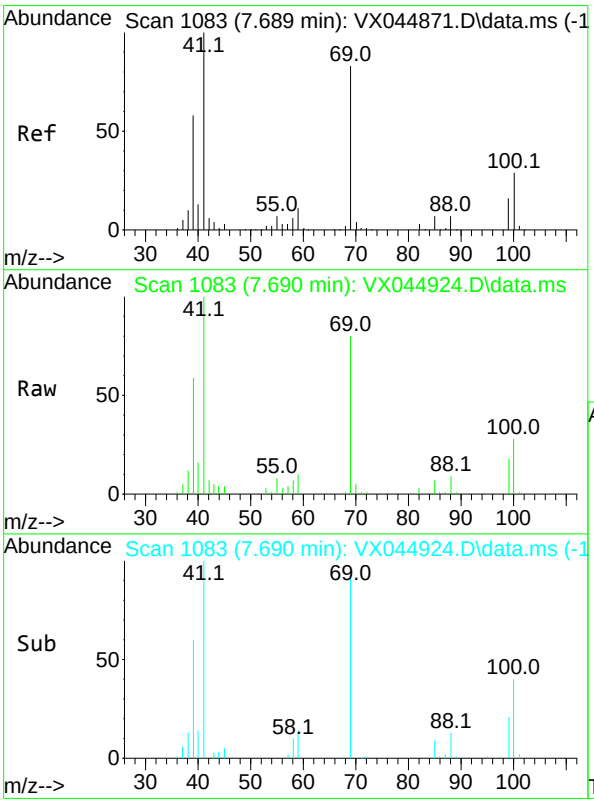
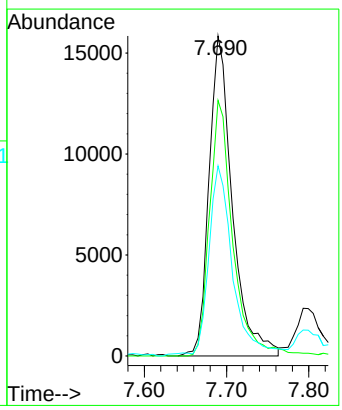
Supervised By :Mahesh Dadoda 02/14/2025

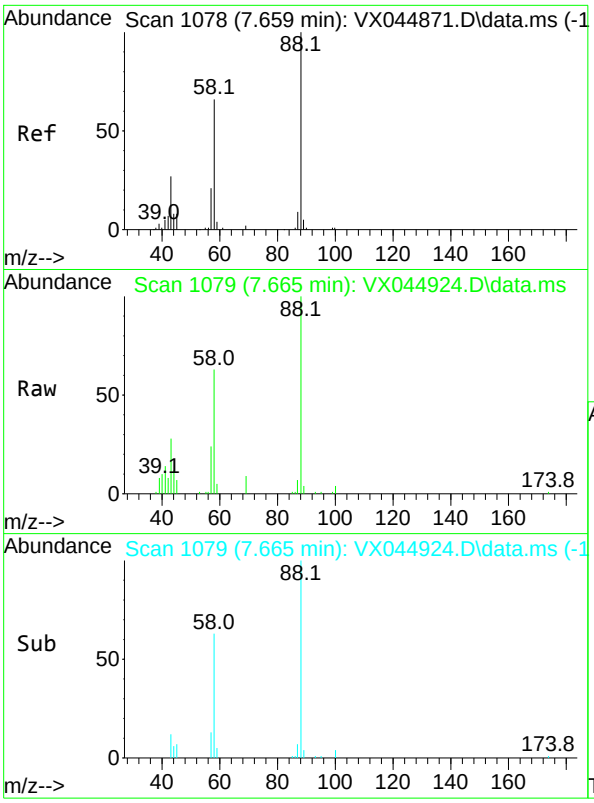


#48
Methyl methacrylate
Concen: 20.087 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 41 Resp: 31202

Ion	Ratio	Lower	Upper
41	100		
69	79.8	65.8	98.8
39	60.9	46.4	69.6





#49
1,4-Dioxane
Concen: 420.866 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 88 Resp: 1402

Ion	Ratio	Lower	Upper
88	100		
43	33.5	26.6	39.8
58	70.7	55.9	83.9

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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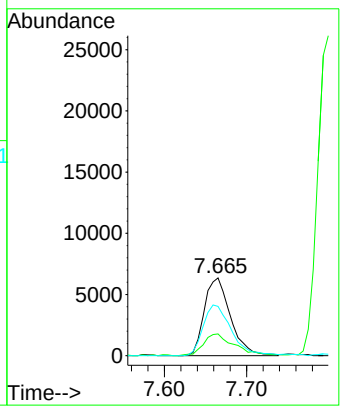
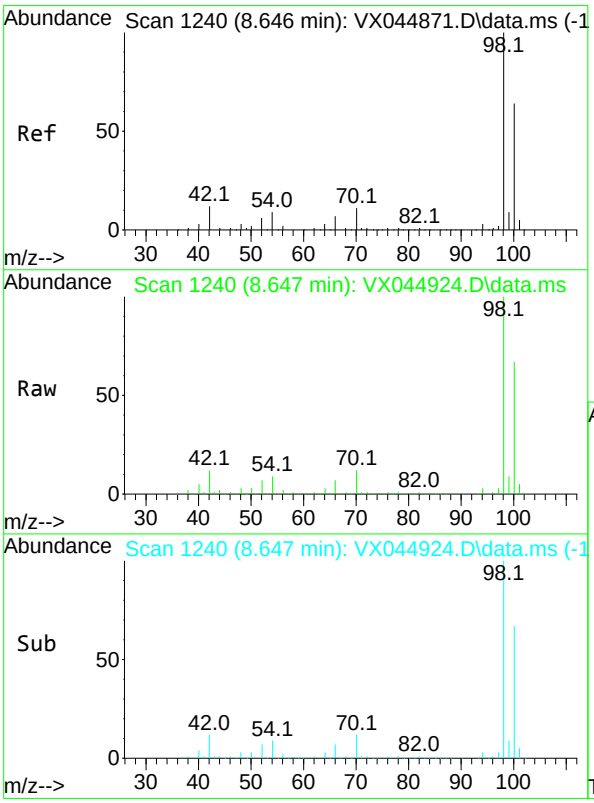
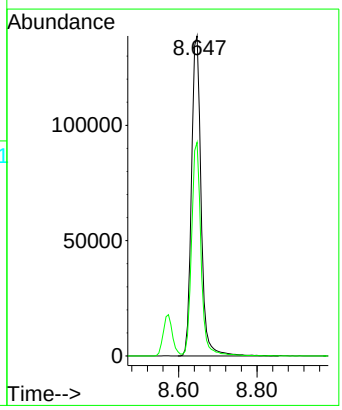


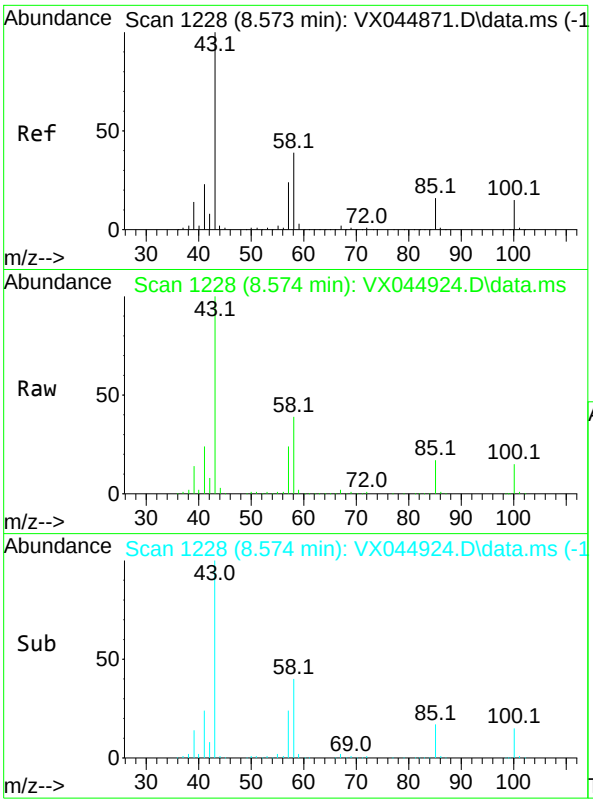


#50
Toluene-d8
Concen: 49.426 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 98 Resp: 237599

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1

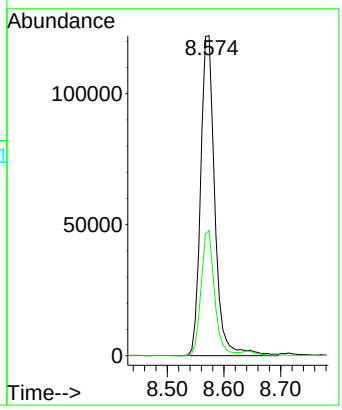




#51
4-Methyl-2-Pentanone
Concen: 106.108 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 21251

Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.8	46.2



Instrument :
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ClientSampleId :
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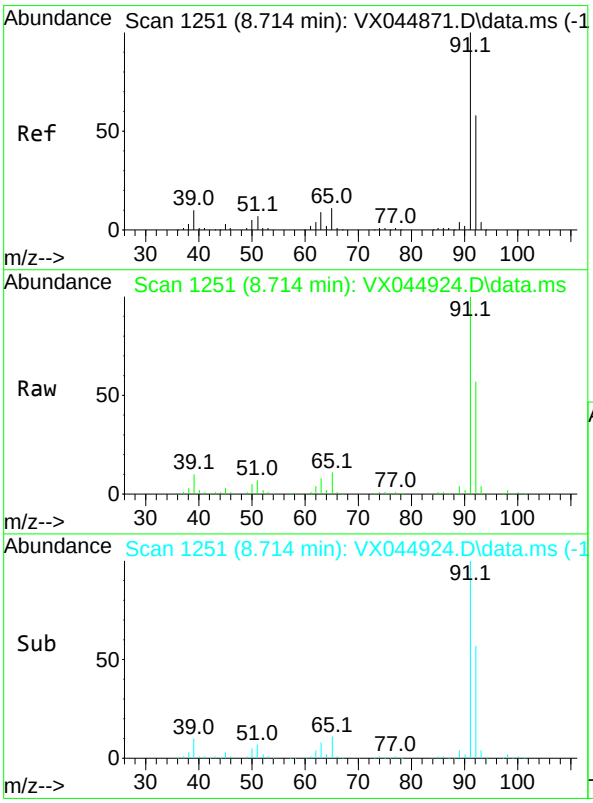
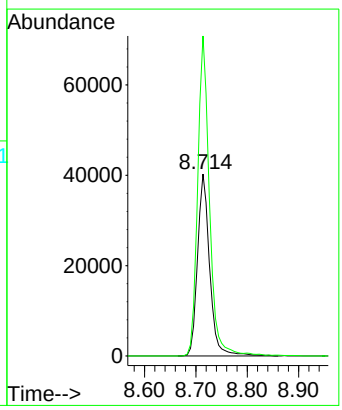
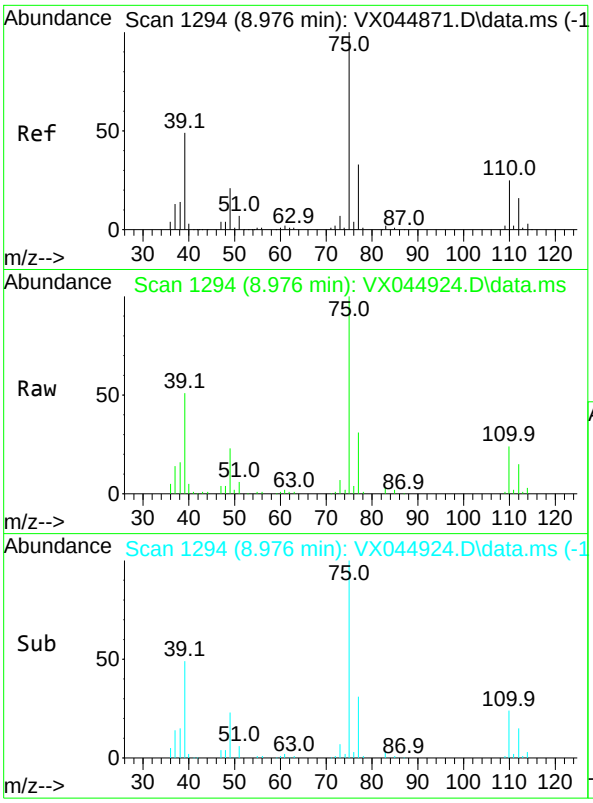


#52
Toluene
Concen: 19.378 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 92 Resp: 66094

Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.4	206.2

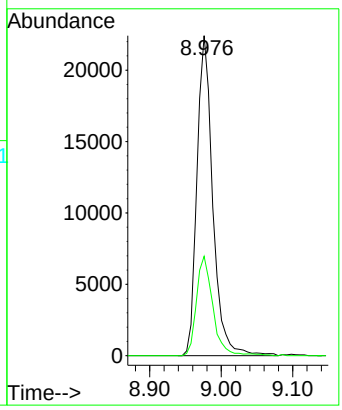




#53
t-1,3-Dichloropropene
Concen: 17.789 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 3444

Ion	Ratio	Lower	Upper
75	100		
77	31.1	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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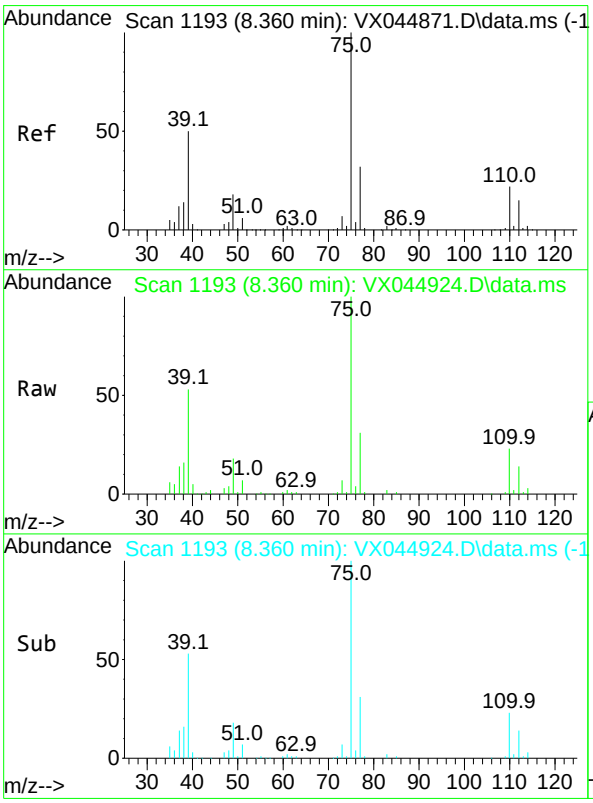
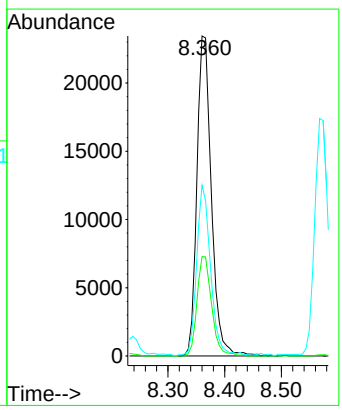
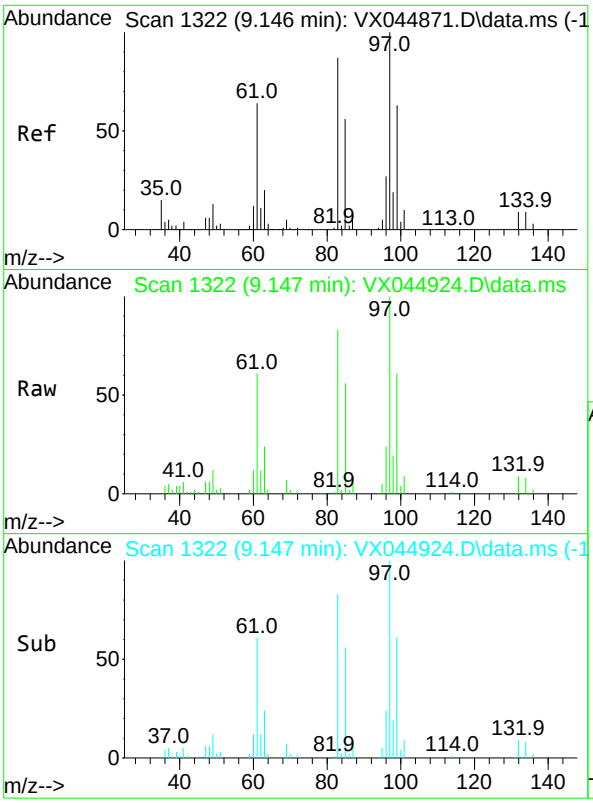


#54
cis-1,3-Dichloropropene
Concen: 19.267 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 41592

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.3	37.9
39	53.0	40.0	60.0

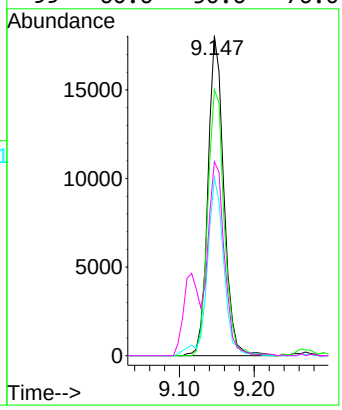




#55
1,1,2-Trichloroethane
Concen: 20.293 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 97 Resp: 2660

Ion	Ratio	Lower	Upper
97	100		
83	83.2	69.8	104.6
85	55.6	44.8	67.2
99	60.6	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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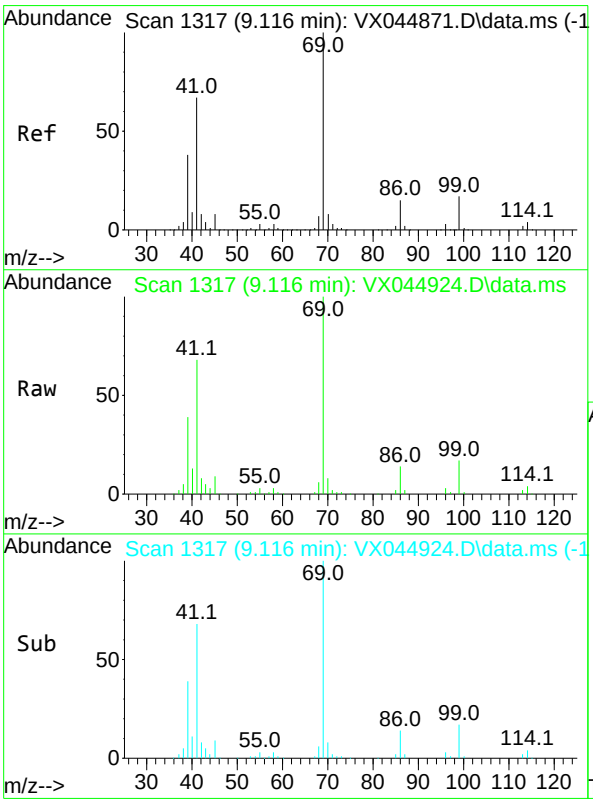
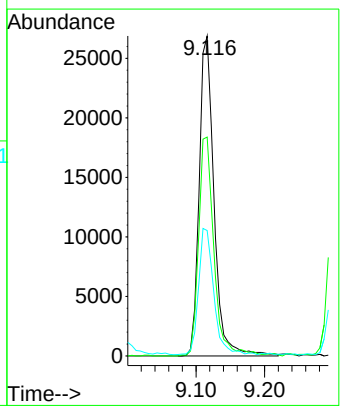
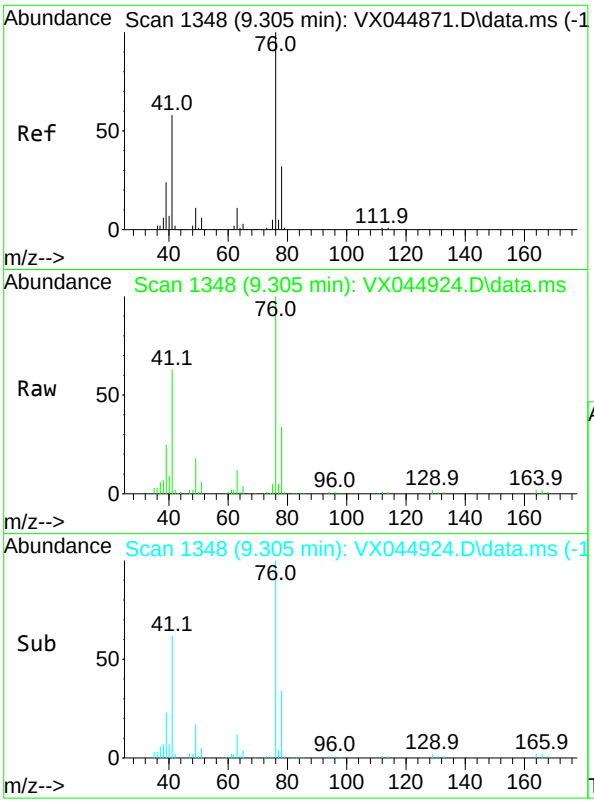


#56
Ethyl methacrylate
Concen: 19.170 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 69 Resp: 40596

Ion	Ratio	Lower	Upper
69	100		
41	70.6	55.2	82.8
39	40.4	30.8	46.2

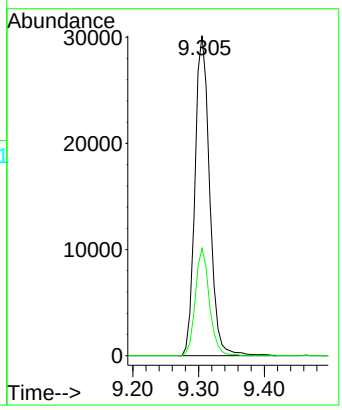




#57
1,3-Dichloropropane
Concen: 20.357 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 76 Resp: 4670

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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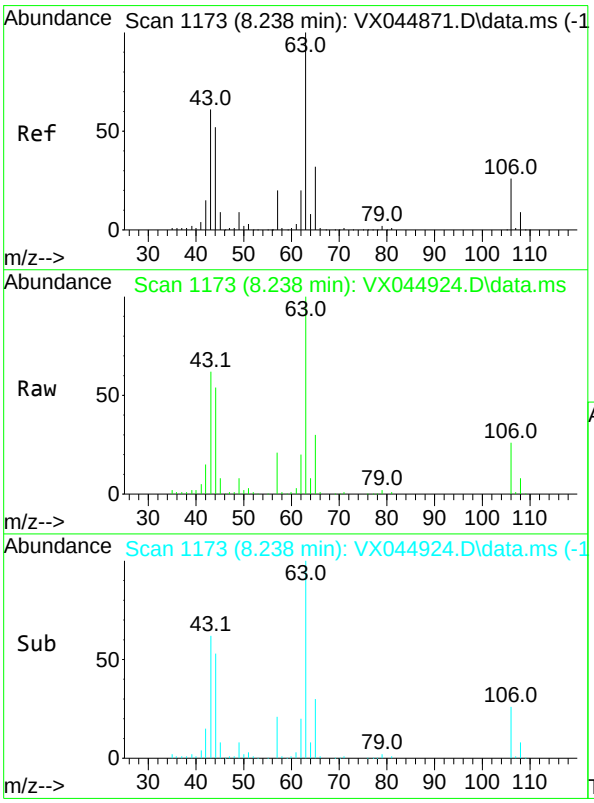
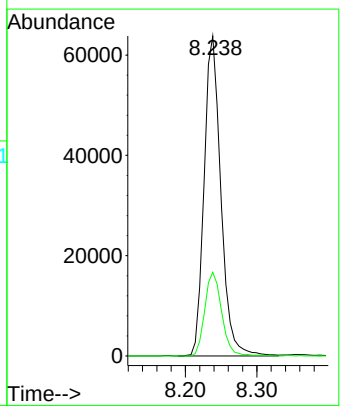
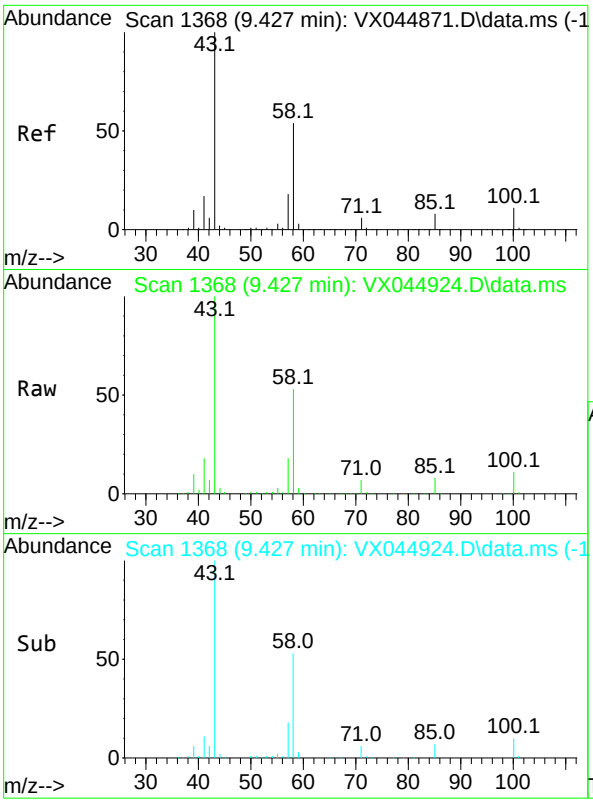


#58
2-Chloroethyl Vinyl ether
Concen: 99.959 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 63 Resp: 103937

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.3	31.9

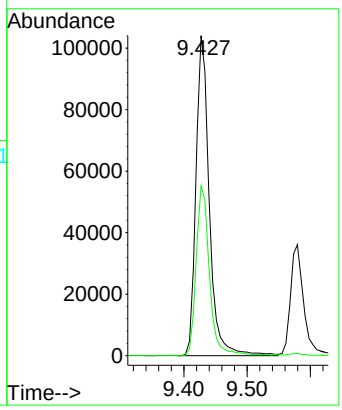




#59
2-Hexanone
Concen: 106.078 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 15307

Ion	Ratio	Lower	Upper
43	100		
58	52.9	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
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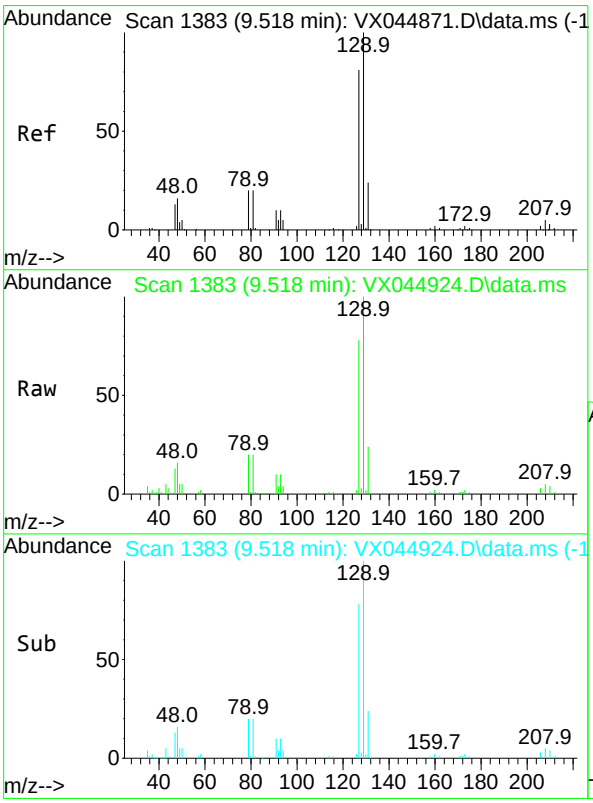
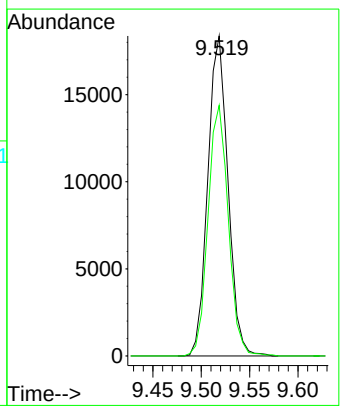
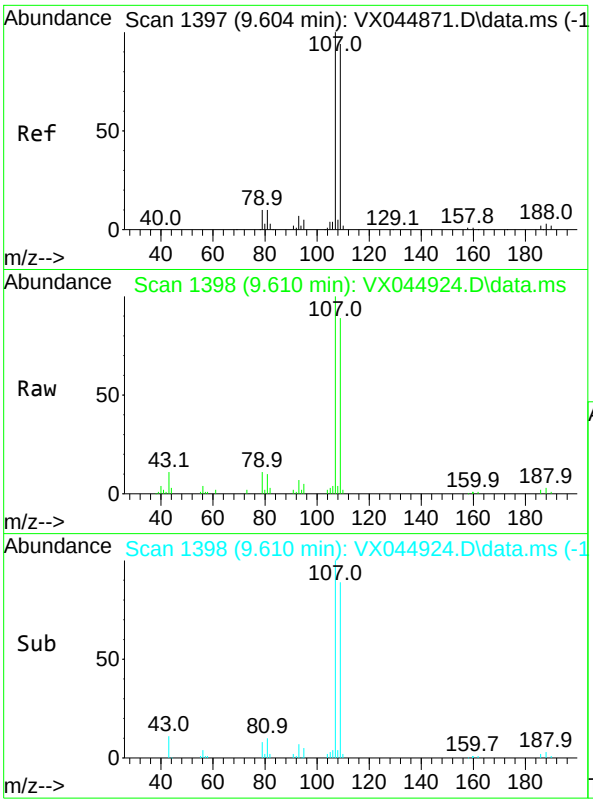


#60
Dibromochloromethane
Concen: 19.022 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:129 Resp: 26674

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.1	117.3

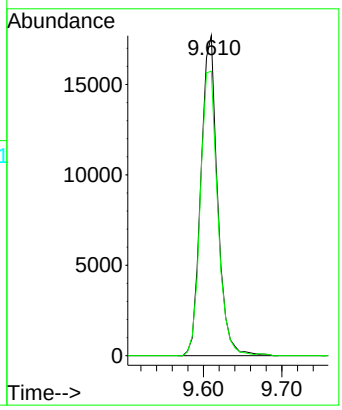




#61
1,2-Dibromoethane
Concen: 19.569 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:107 Resp: 2600

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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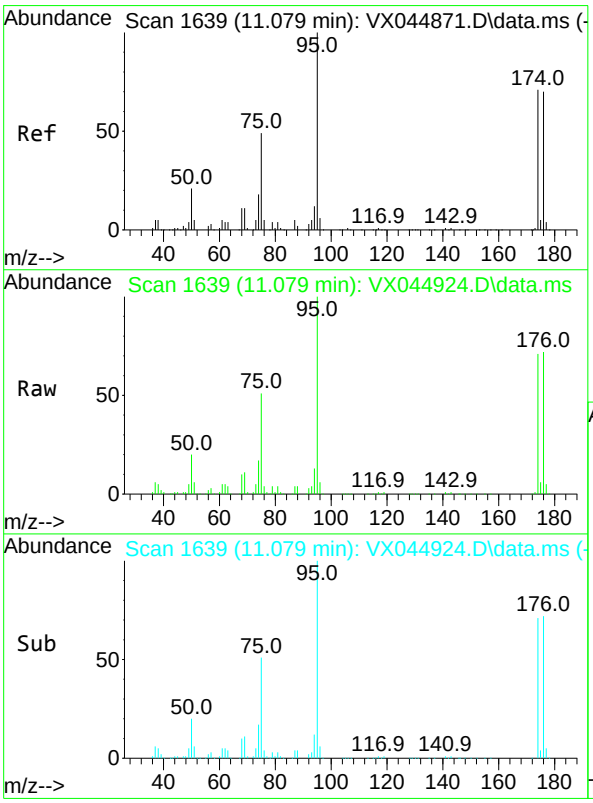
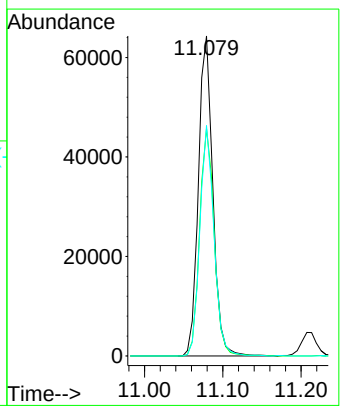
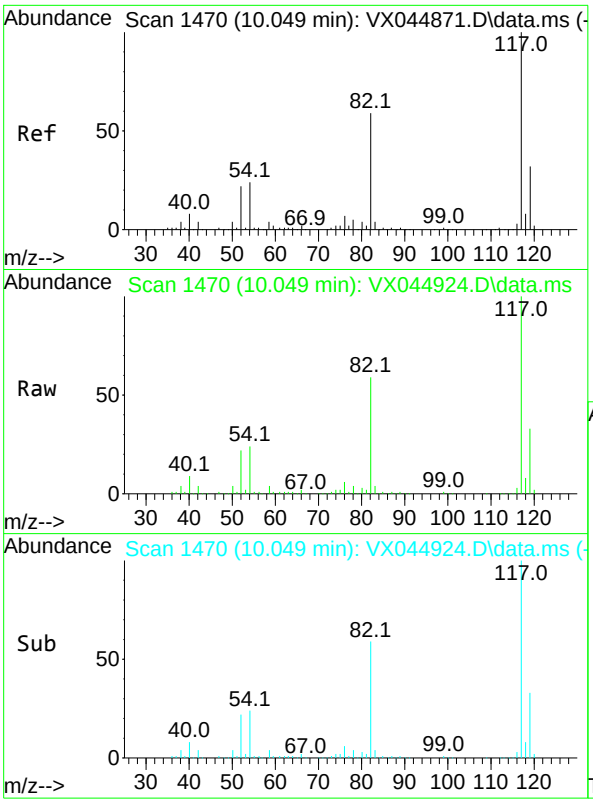


#62
4-Bromofluorobenzene
Concen: 50.822 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 95 Resp: 82362

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	142.6
176	70.3	0.0	141.6

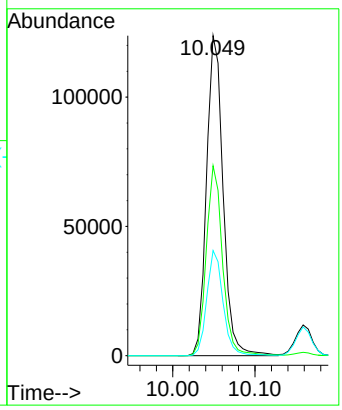




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:117 Resp: 17296

Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	32.9	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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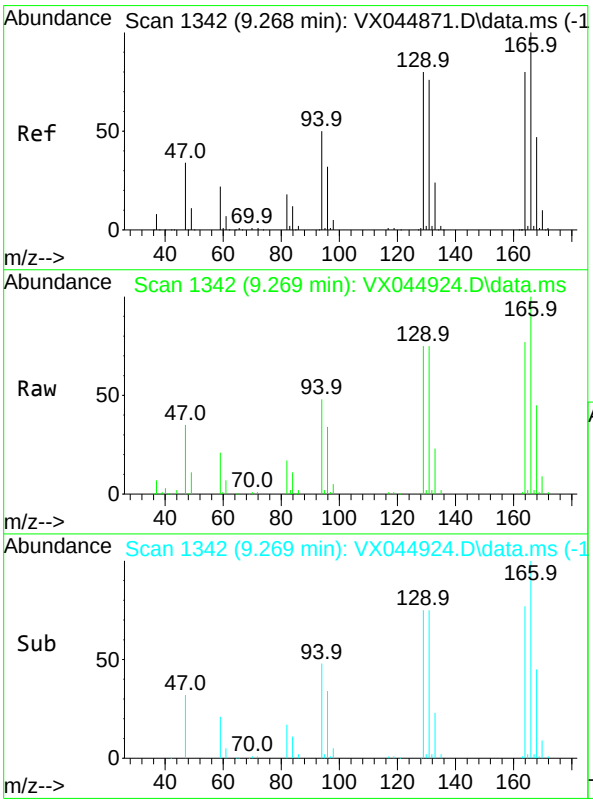
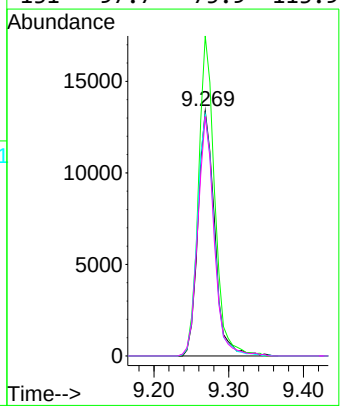
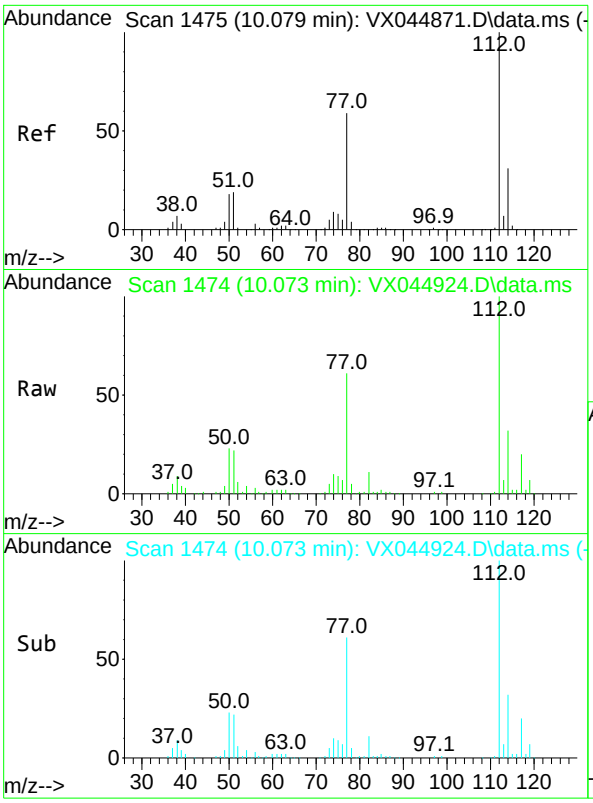


#64
Tetrachloroethene
Concen: 19.003 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:164 Resp: 20728

Ion	Ratio	Lower	Upper
164	100		
166	130.6	100.4	150.6
129	98.4	79.9	119.9
131	97.7	75.9	113.9

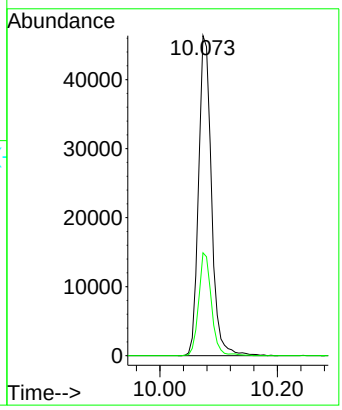




#65
Chlorobenzene
Concen: 19.047 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:112 Resp: 7076

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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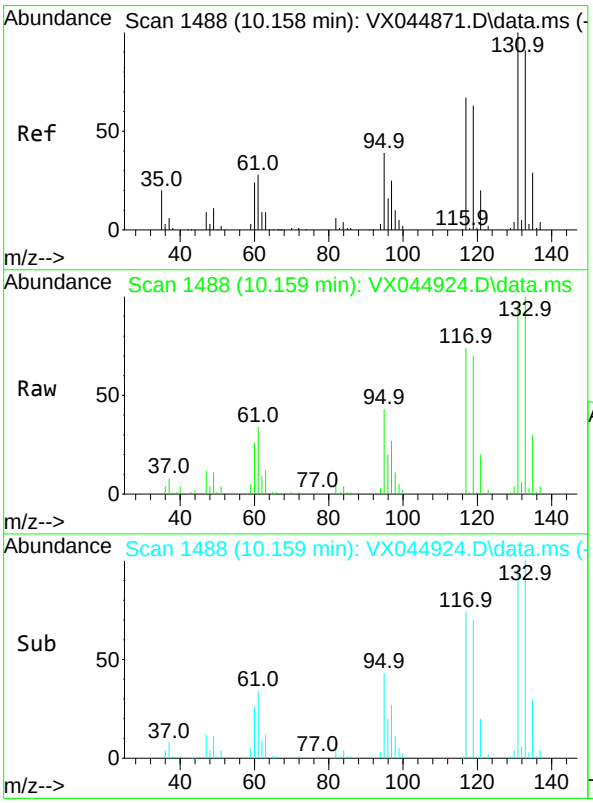
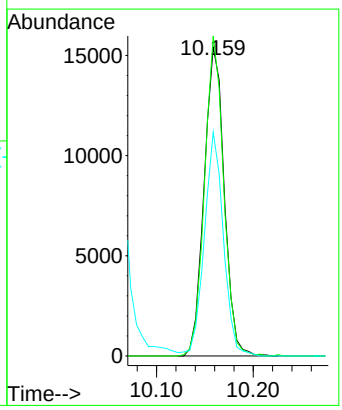
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

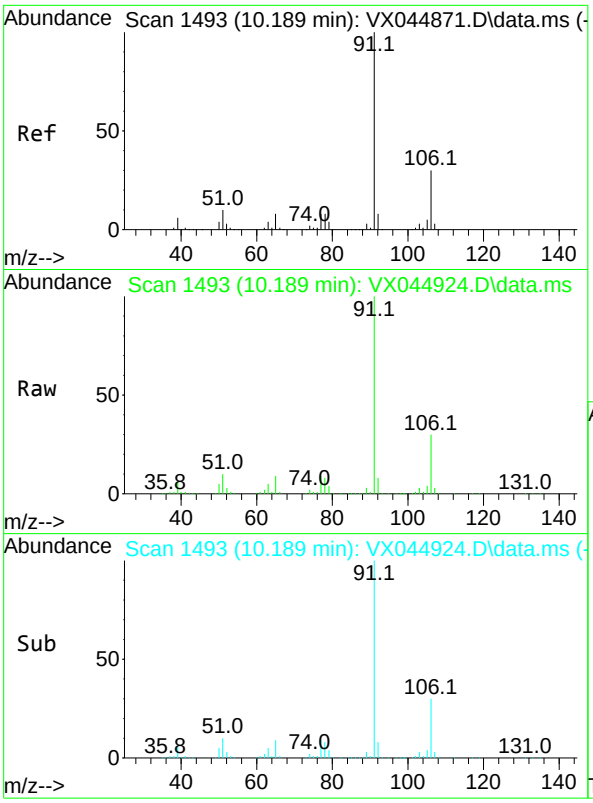


#66
1,1,1,2-Tetrachloroethane
Concen: 18.675 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:131 Resp: 22330

Ion	Ratio	Lower	Upper
131	100		
133	98.4	47.1	141.3
119	68.7	33.6	100.6

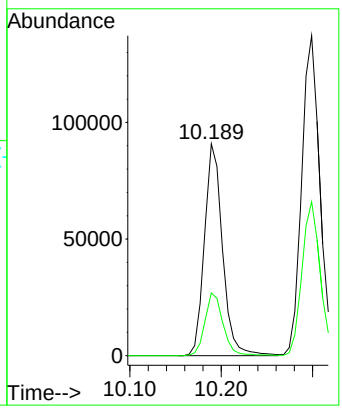




#67
Ethyl Benzene
Concen: 19.032 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 91 Resp: 12476

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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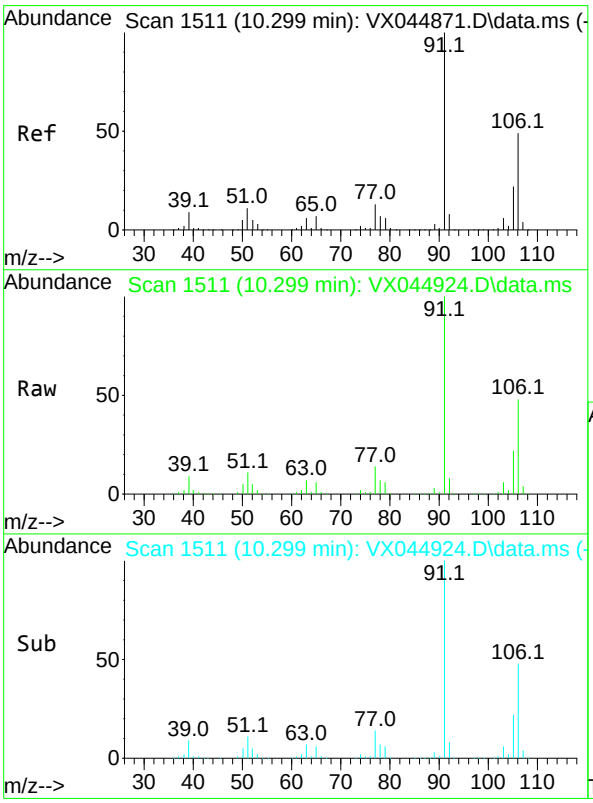
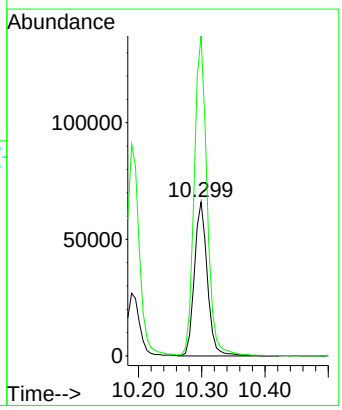
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

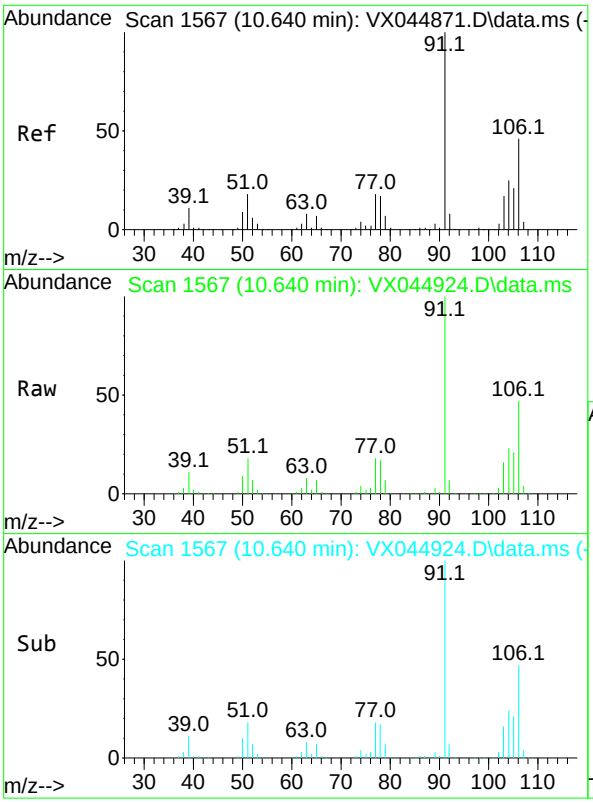


#68
m/p-Xylenes
Concen: 38.868 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:106 Resp: 93995

Ion	Ratio	Lower	Upper
106	100		
91	206.9	164.3	246.5

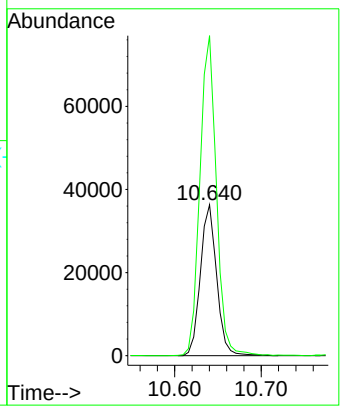




#69
o-Xylene
Concen: 19.524 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:106 Resp: 4737

Ion	Ratio	Lower	Upper
106	100		
91	214.9	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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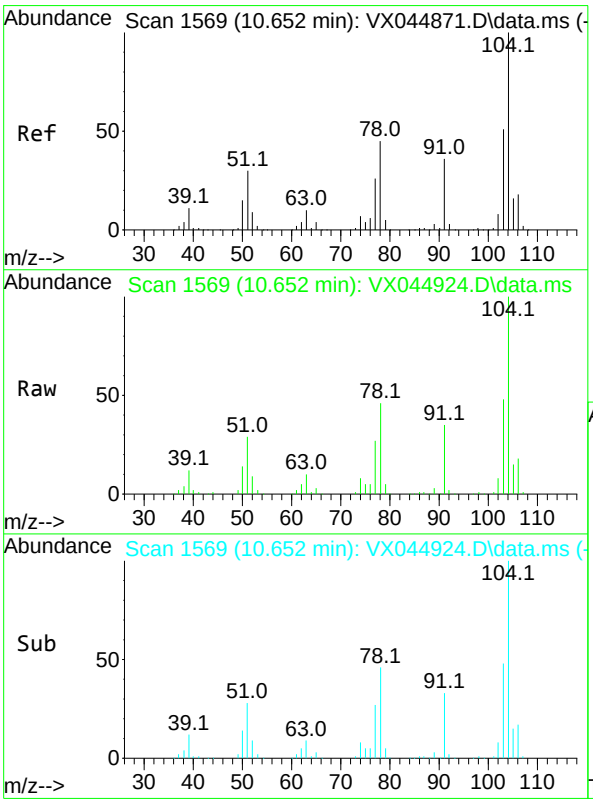
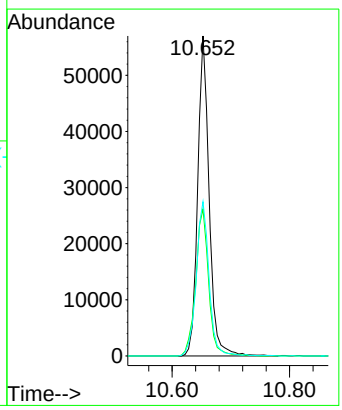
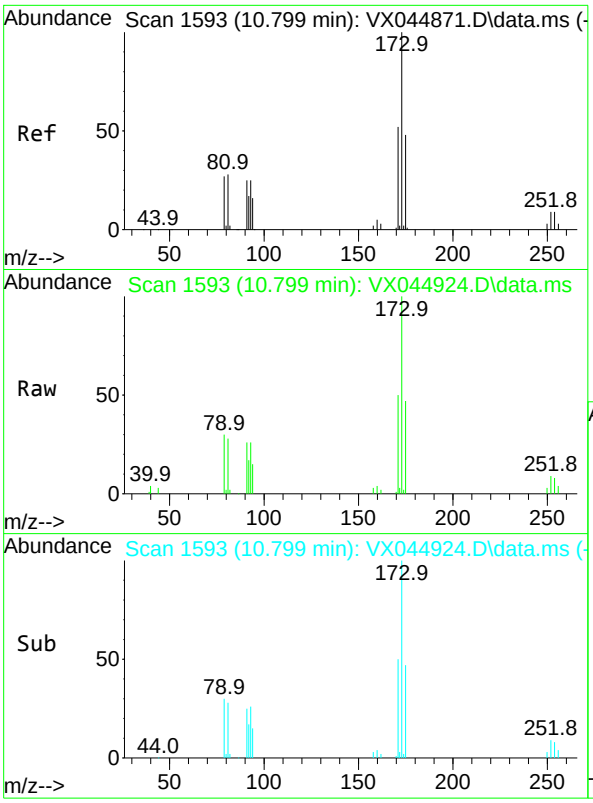


#70
Styrene
Concen: 19.743 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:104 Resp: 77185

Ion	Ratio	Lower	Upper
104	100		
78	51.9	40.5	60.7
103	53.8	43.6	65.4

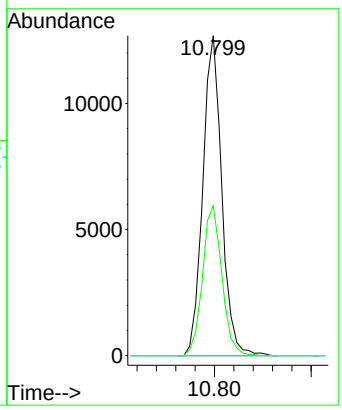




#71
Bromoform
Concen: 19.365 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:173 Resp: 1728

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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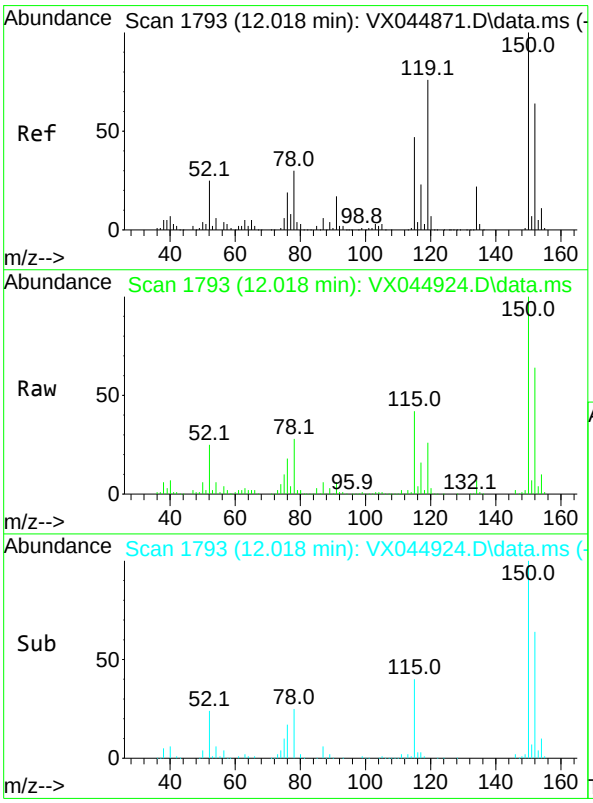
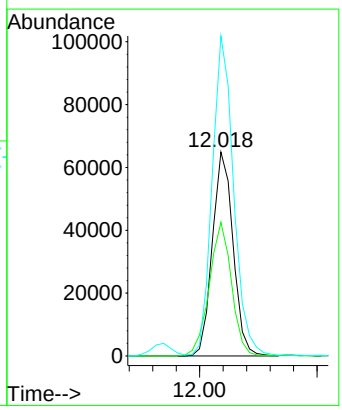
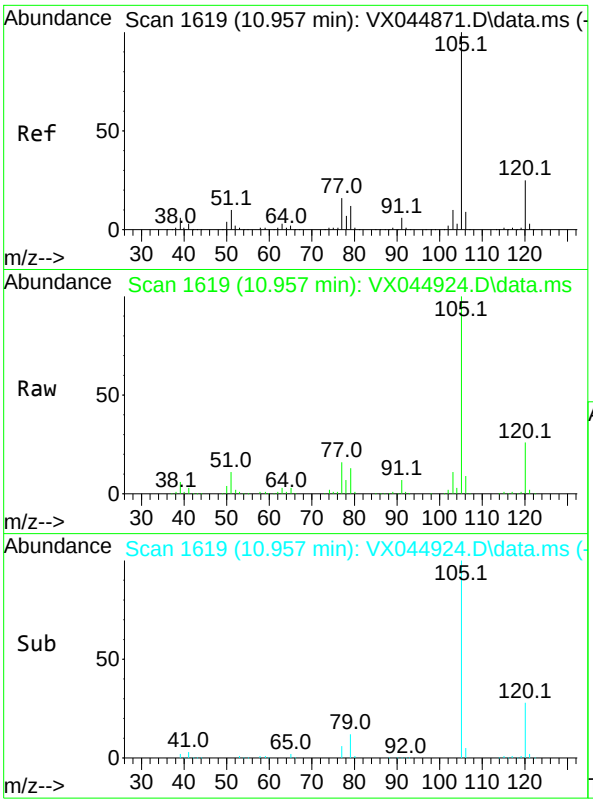


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:152 Resp: 79611

Ion	Ratio	Lower	Upper
152	100		
115	70.2	43.4	130.1
150	161.8	0.0	350.4

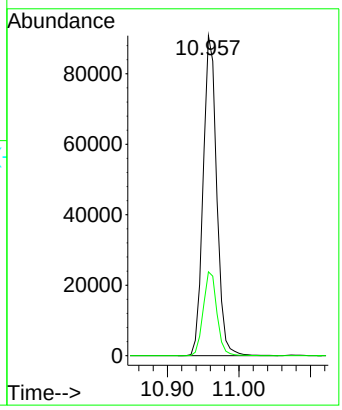




#73
Isopropylbenzene
Concen: 18.671 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:105 Resp: 11968

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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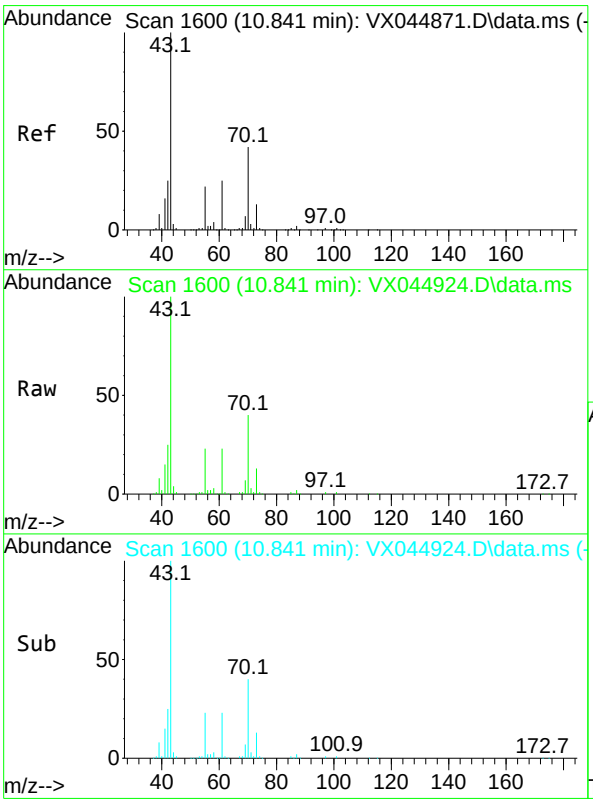
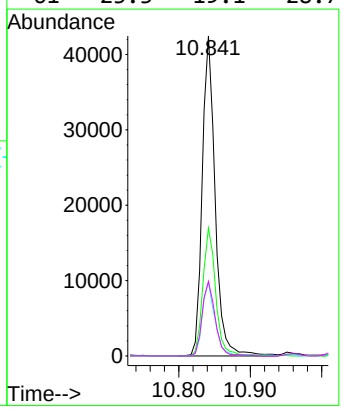
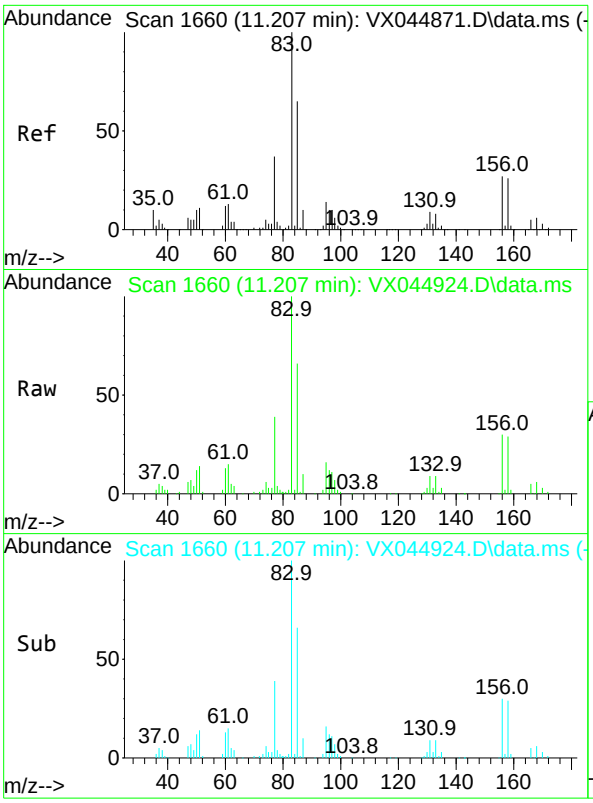


#74
N-amyl acetate
Concen: 18.396 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 53361

Ion	Ratio	Lower	Upper
43	100		
70	40.2	33.7	50.5
55	22.7	18.6	27.8
61	23.3	19.1	28.7

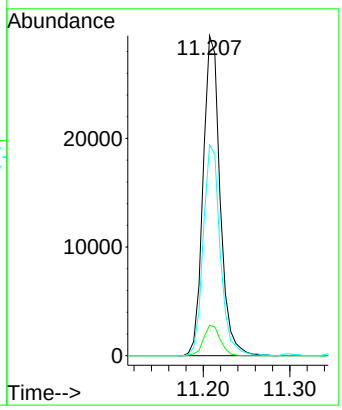




#75
1,1,2,2-Tetrachloroethane
Concen: 18.190 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 83 Resp: 4006

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.5
85	66.2	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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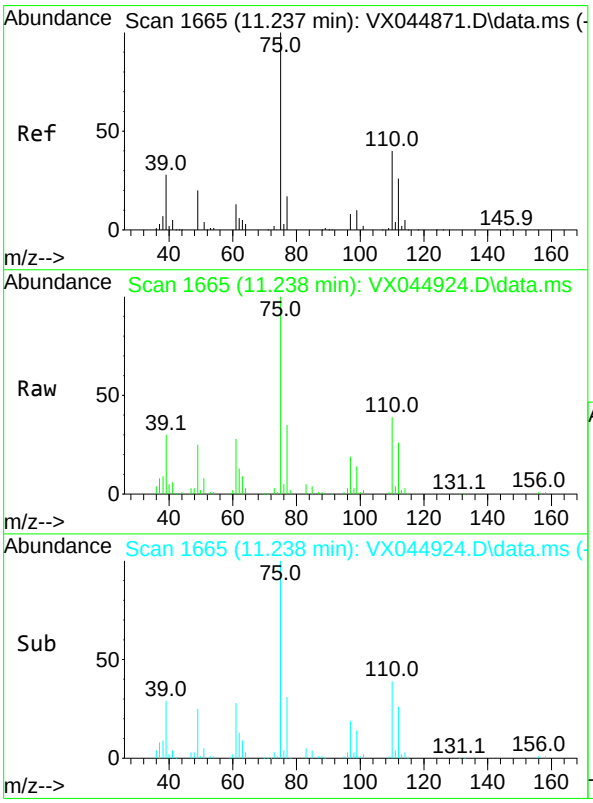
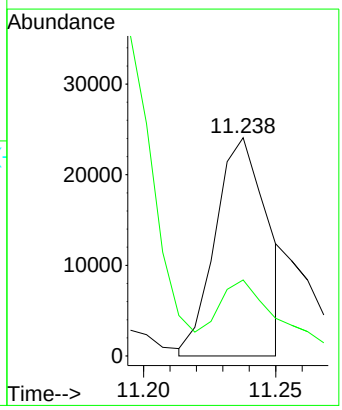
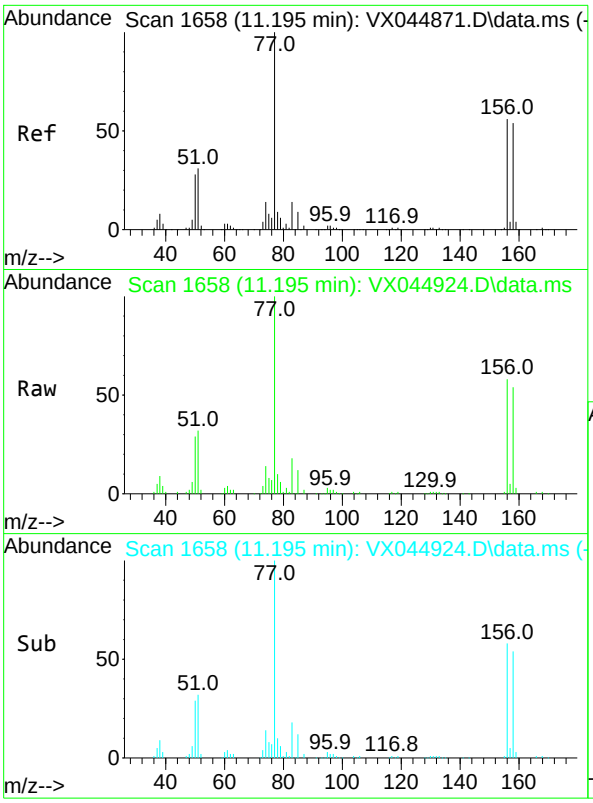


#76
1,2,3-Trichloropropane
Concen: 18.575 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 32786

Ion	Ratio	Lower	Upper
75	100		
77	42.5	21.9	65.7

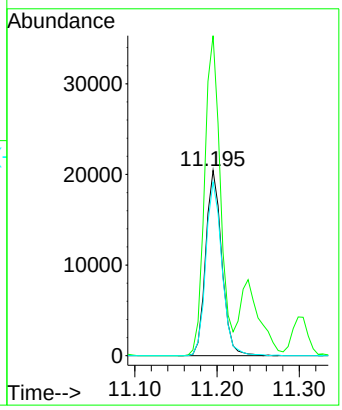




#77
Bromobenzene
Concen: 19.015 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:156 Resp: 2763

Ion	Ratio	Lower	Upper
156	100		
77	170.3	88.4	265.3
158	94.5	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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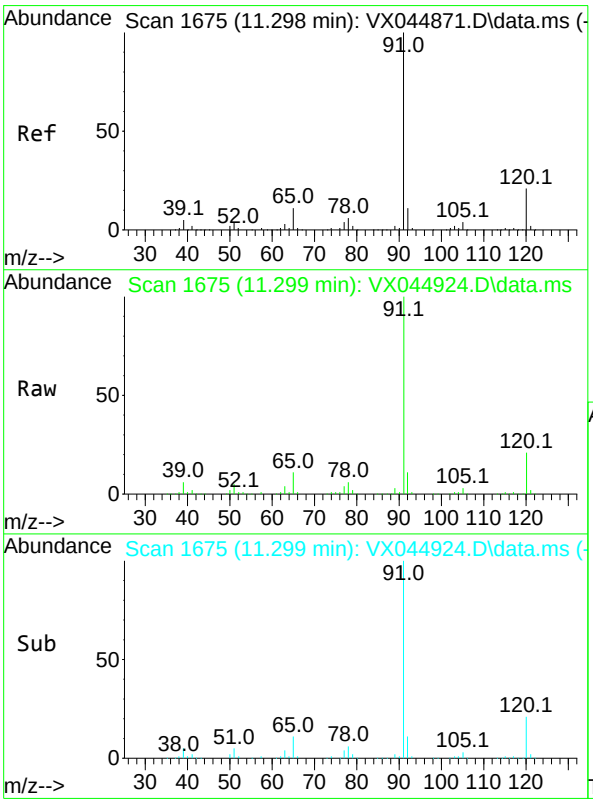
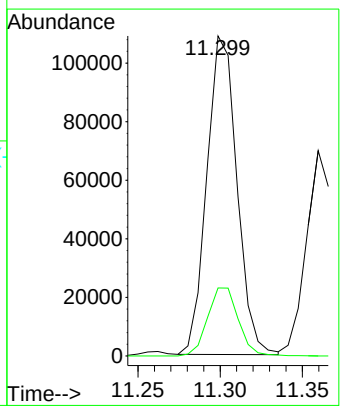
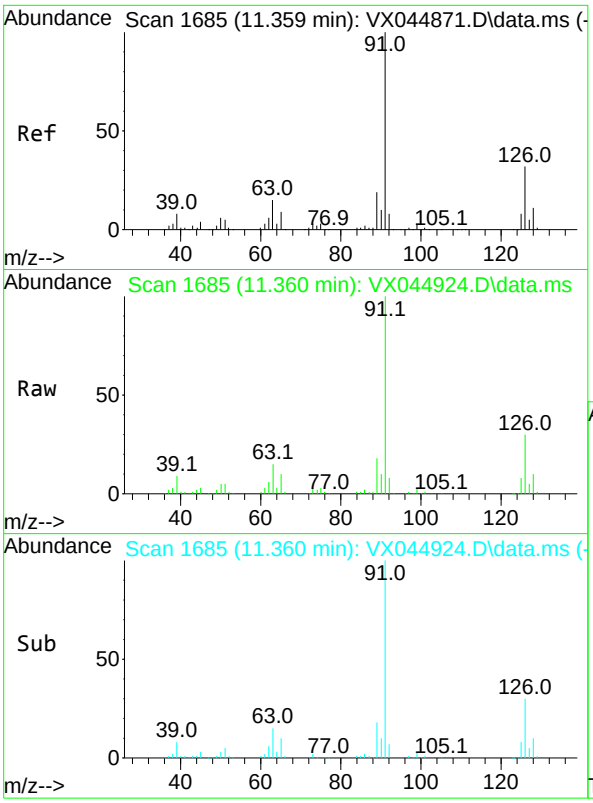


#78
n-propylbenzene
Concen: 18.758 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 91 Resp: 138789

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3

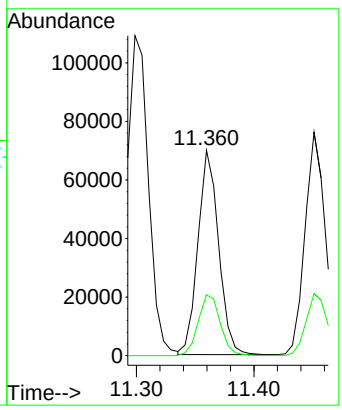




#79
2-Chlorotoluene
Concen: 18.770 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 91 Resp: 8535

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

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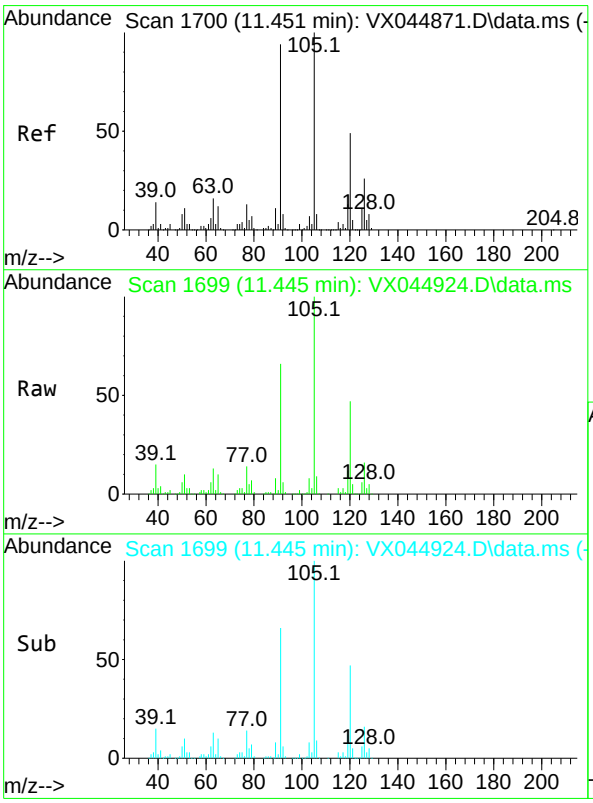
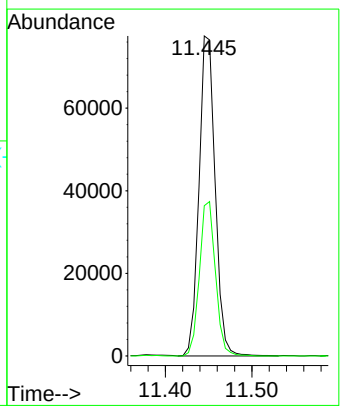
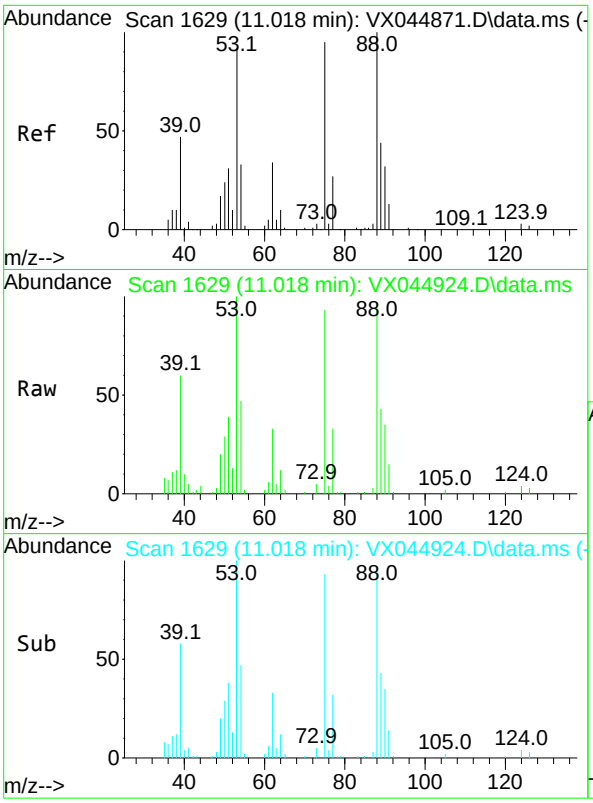


#80
1,3,5-Trimethylbenzene
Concen: 19.305 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:105 Resp: 100422

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.0	72.0

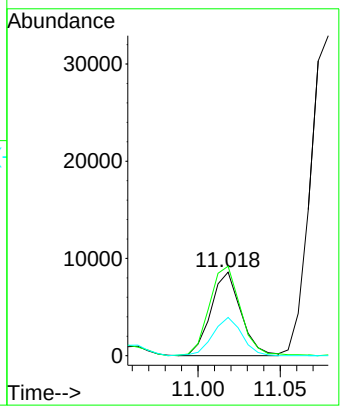




#81
trans-1,4-Dichloro-2-butene
Concen: 15.935 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 1093

Ion	Ratio	Lower	Upper
75	100		
53	111.0	78.0	117.0
89	44.5	36.6	54.8



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations APPROVED

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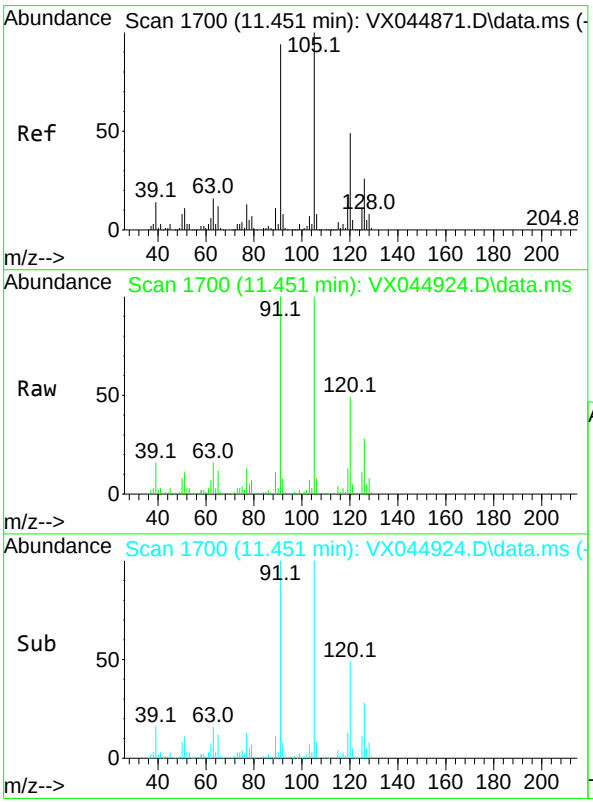
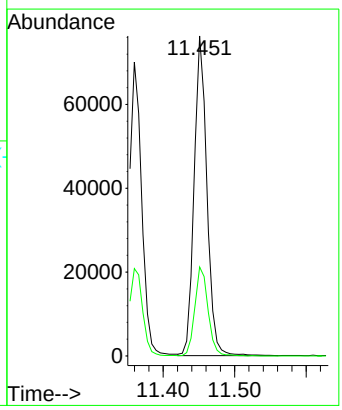
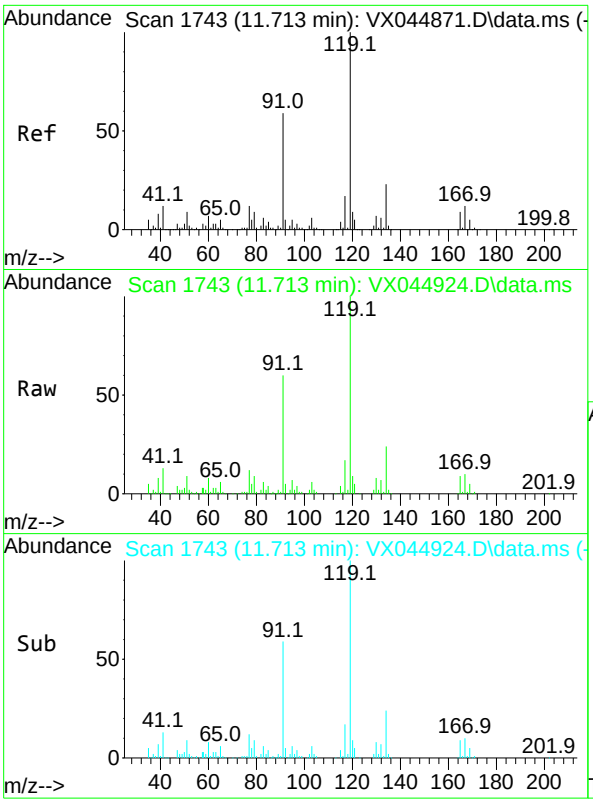


#82
4-Chlorotoluene
Concen: 18.774 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 91 Resp: 94450

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.2	42.6

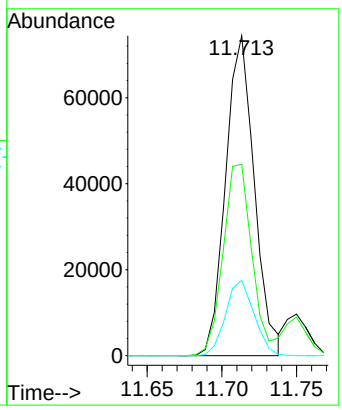




#83
tert-Butylbenzene
Concen: 18.884 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:119 Resp: 9937

Ion	Ratio	Lower	Upper
119	100		
91	59.7	29.1	87.4
134	23.3	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
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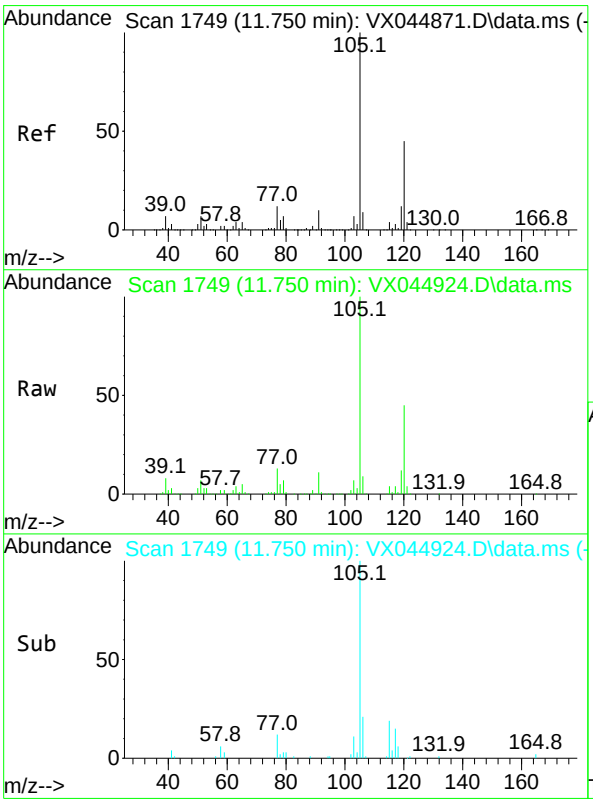
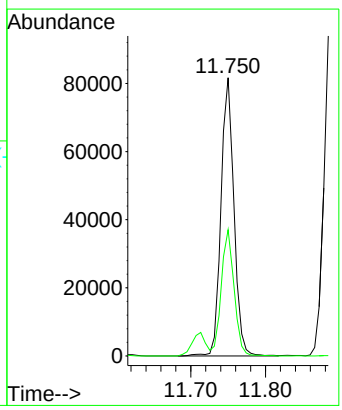
Supervised By :Mahesh Dadoda 02/14/2025

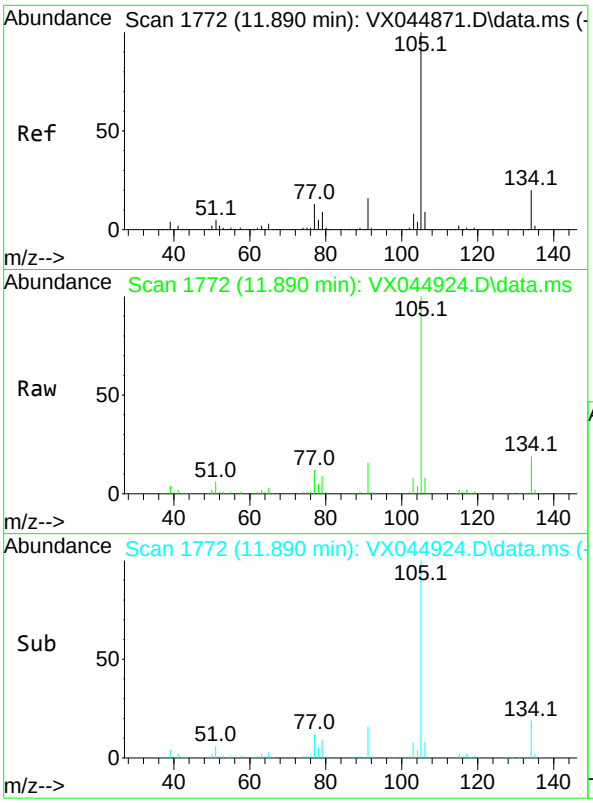


#84
1,2,4-Trimethylbenzene
Concen: 19.251 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:105 Resp: 98836

Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.4	67.0

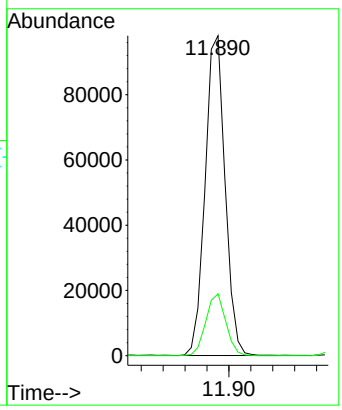




#85
sec-Butylbenzene
Concen: 18.980 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:105 Resp: 12368

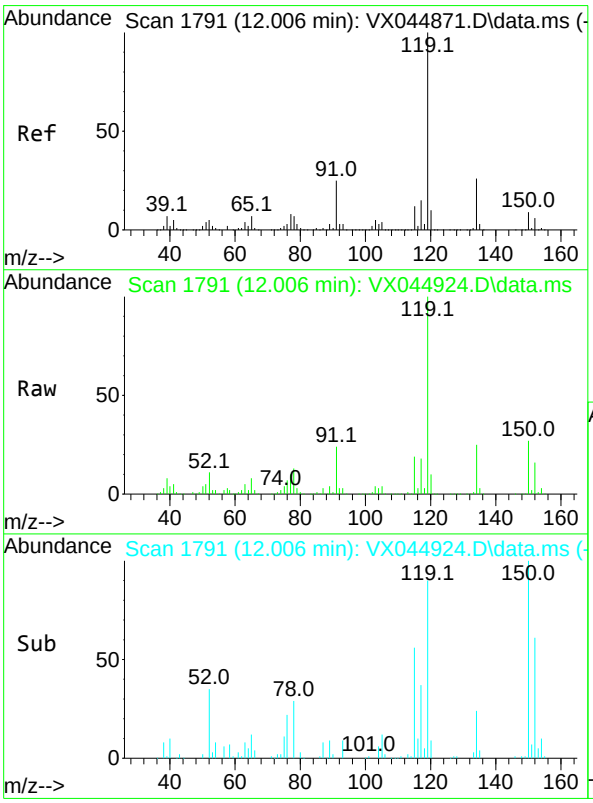
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
APPROVED

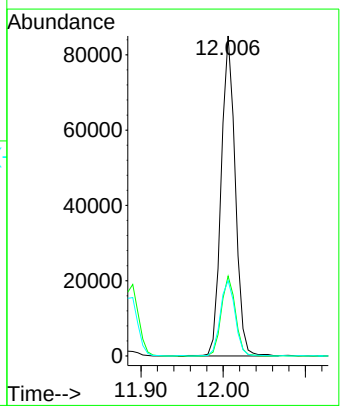
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

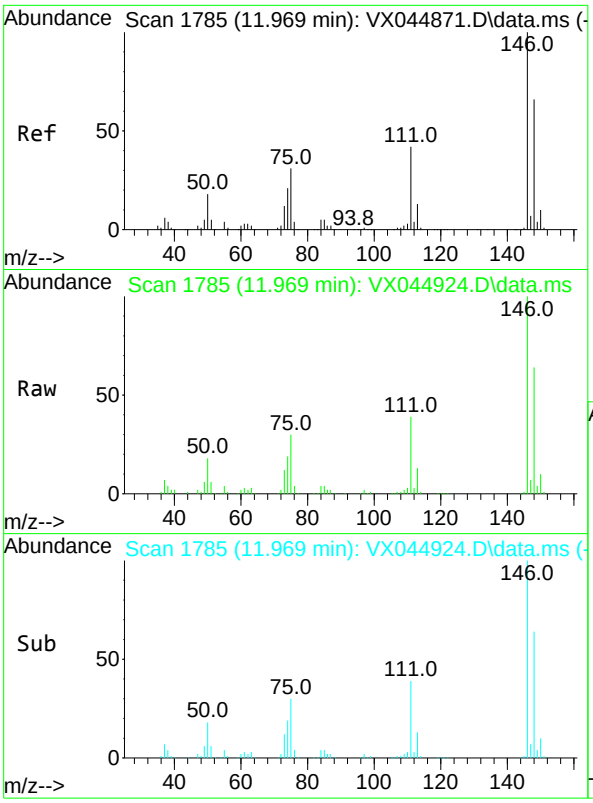


#86
p-Isopropyltoluene
Concen: 19.325 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:119 Resp: 101272

Ion	Ratio	Lower	Upper
119	100		
134	25.0	13.0	38.9
91	24.8	12.1	36.3

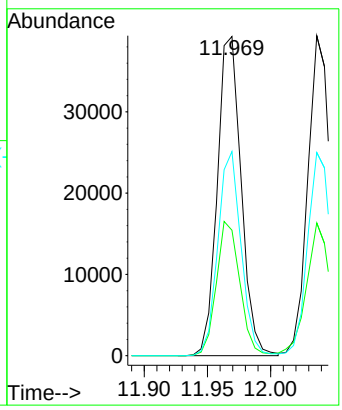




#87
1,3-Dichlorobenzene
Concen: 19.265 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:146 Resp: 5148

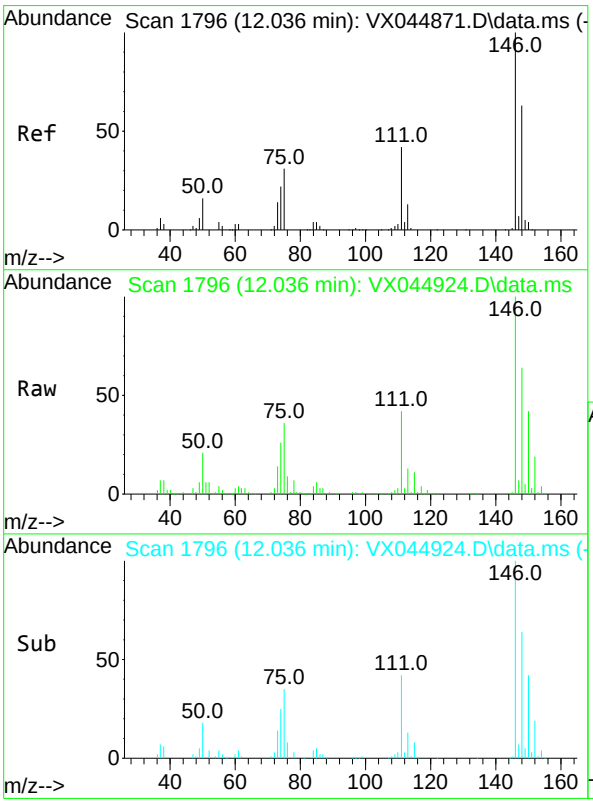
Ion	Ratio	Lower	Upper
146	100		
111	41.3	21.2	63.6
148	62.3	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations APPROVED

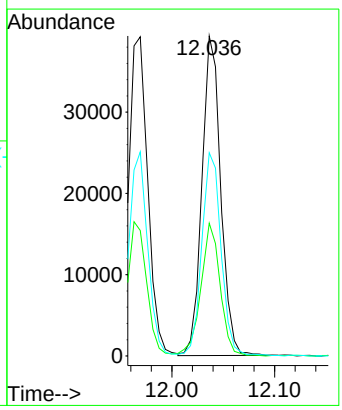
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

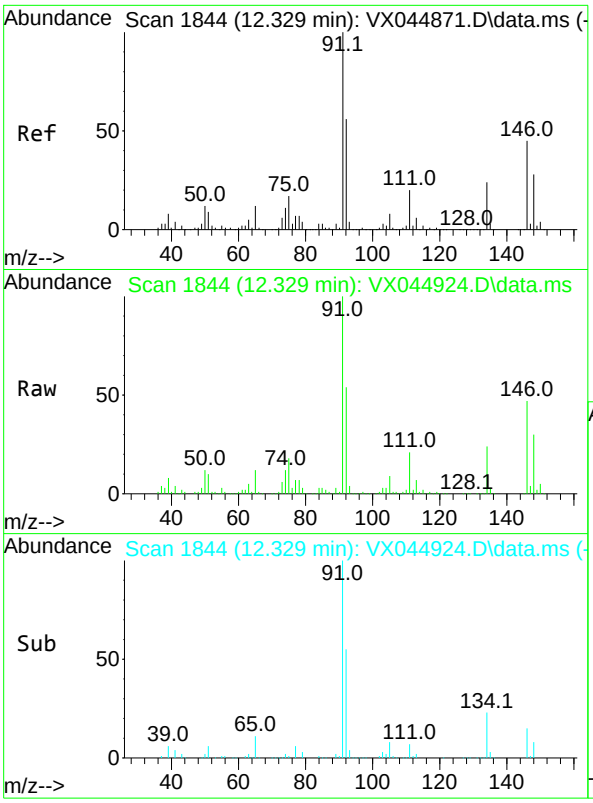


#88
1,4-Dichlorobenzene
Concen: 18.476 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:146 Resp: 49926

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.4	61.3
148	65.6	32.0	96.0





#89
n-Butylbenzene
Concen: 19.025 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

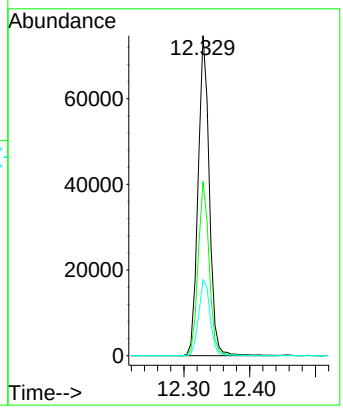
Tgt Ion: 91 Resp: 8820

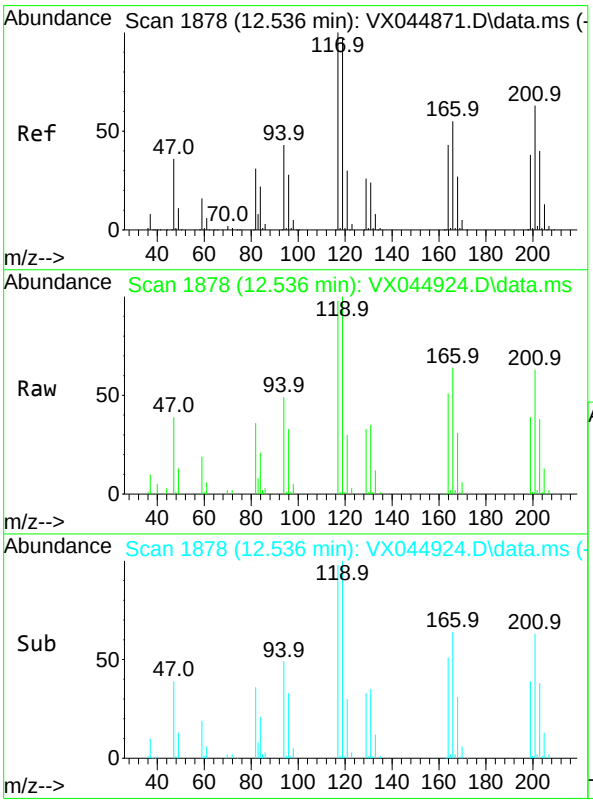
Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.2	81.6
134	24.4	12.1	36.3

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

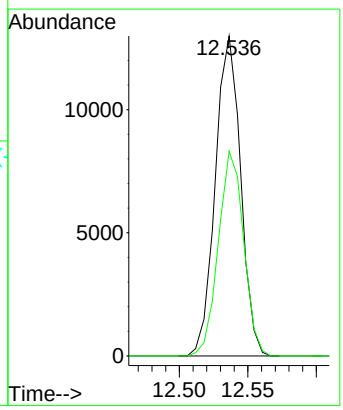


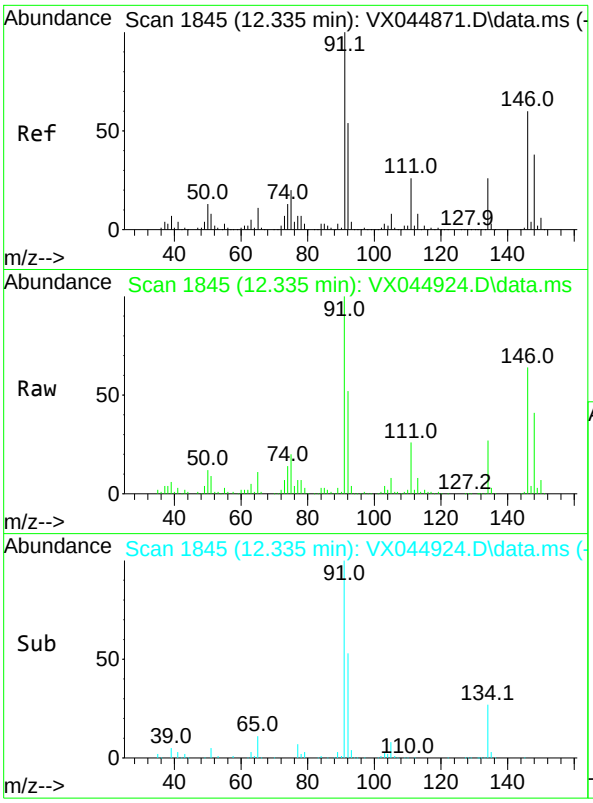


#90
Hexachloroethane
Concen: 16.999 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:117 Resp: 16680

Ion	Ratio	Lower	Upper
117	100		
201	64.0	32.5	97.5

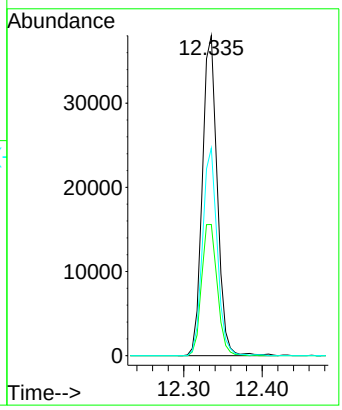




#91
1,2-Dichlorobenzene
Concen: 19.114 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:146 Resp: 5020

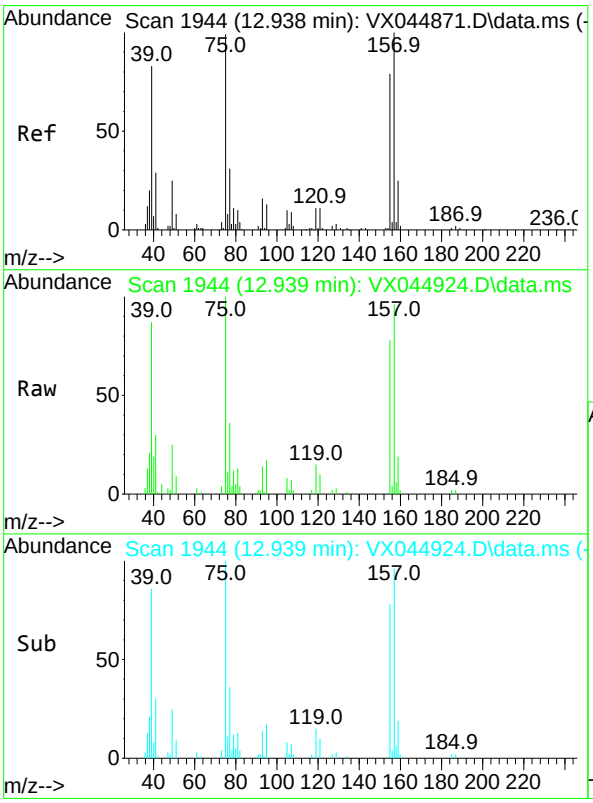
Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.8	65.4
148	63.7	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
APPROVED

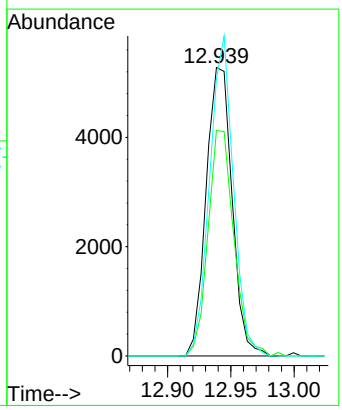
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

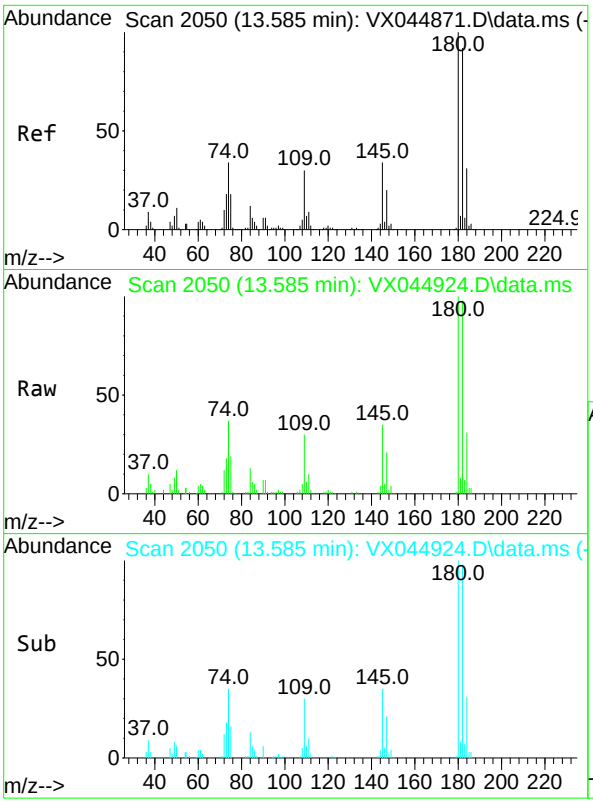


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.713 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 7523

Ion	Ratio	Lower	Upper
75	100		
155	78.1	40.5	121.4
157	101.7	51.4	154.3

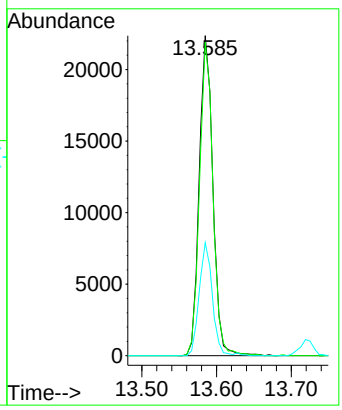




#93
1,2,4-Trichlorobenzene
Concen: 17.801 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:180 Resp: 2829

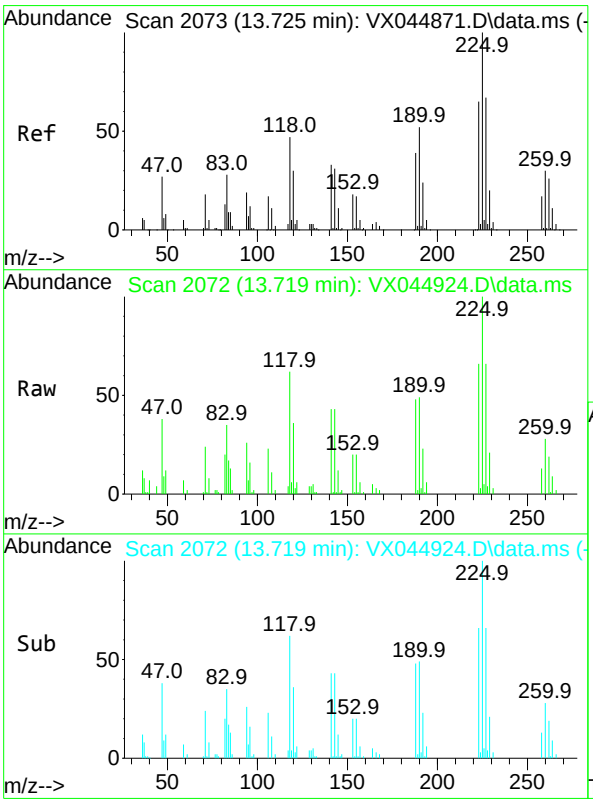
Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.6	142.8
145	33.8	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations APPROVED

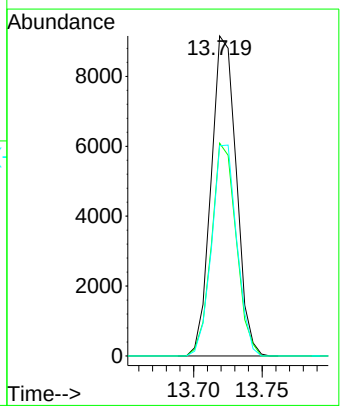
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025

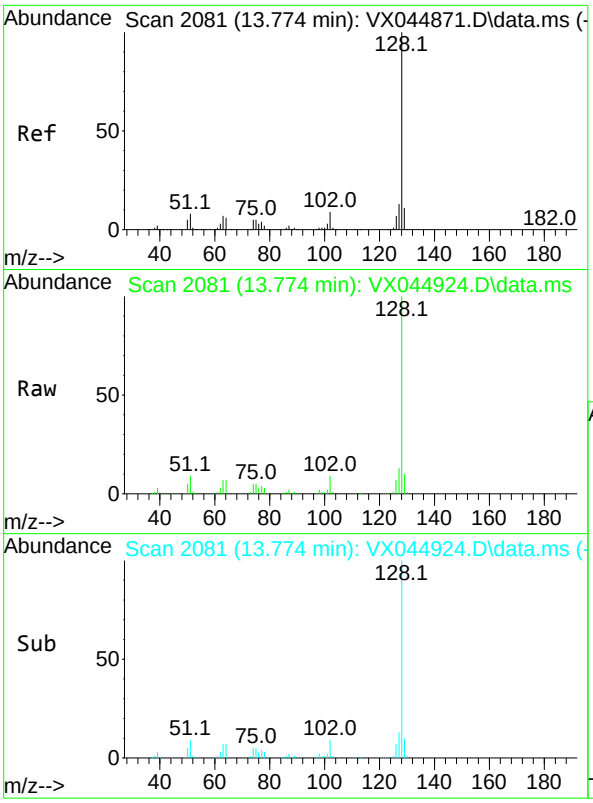


#94
Hexachlorobutadiene
Concen: 18.521 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:225 Resp: 11686

Ion	Ratio	Lower	Upper
225	100		
223	65.2	31.4	94.2
227	65.7	32.3	96.8

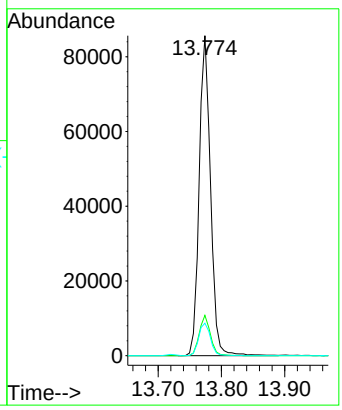




#95
Naphthalene
Concen: 18.642 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:128 Resp: 10710

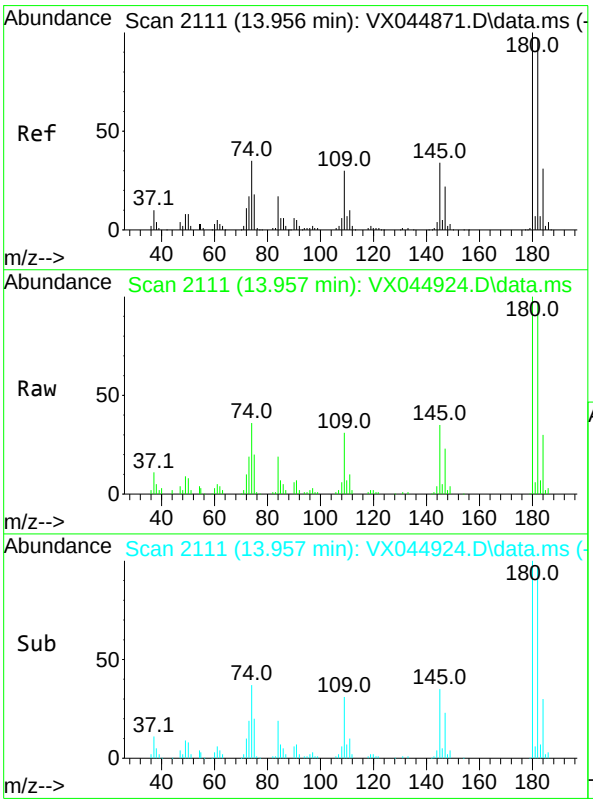
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.6	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Manual Integrations
APPROVED

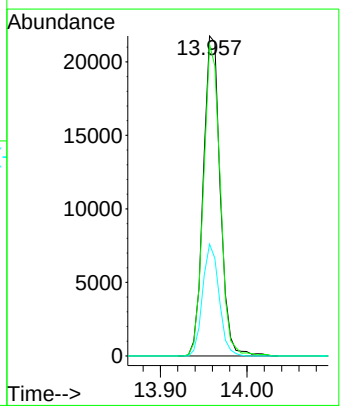
Reviewed By :John Carlone 02/14/2025
Supervised By :Mahesh Dadoda 02/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.455 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:180 Resp: 29556

Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.9	143.6
145	33.8	17.1	51.3



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

Manual Integration Report

Sequence:	VX021025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX044868.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	1,4-Dichlorobenzene	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Dichlorodifluoromethane	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Ethyl Acetate	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Methacrylonitrile	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC005	VX044869.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:40:57 AM	MMDadoda	2/11/2025 10:09:18 AM	Peak Integrated by Software
VSTDICC005	VX044869.D	Chloroethane	JOHN	2/11/2025 9:40:57 AM	MMDadoda	2/11/2025 10:09:18 AM	Peak Integrated by Software
VSTDICC020	VX044870.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:03 AM	MMDadoda	2/11/2025 10:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX044871.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:07 AM	MMDadoda	2/11/2025 10:09:36 AM	Peak Integrated by Software
VSTDICC100	VX044872.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:11 AM	MMDadoda	2/11/2025 10:09:40 AM	Peak Integrated by Software
VSTDICC150	VX044873.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:16 AM	MMDadoda	2/11/2025 10:09:49 AM	Peak Integrated by Software
VSTDICV050	VX044875.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:20 AM	MMDadoda	2/11/2025 10:09:53 AM	Peak Integrated by Software
VSTDCCC050	VX044891.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:46 AM	MMDadoda	2/11/2025 10:10:13 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX021025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VX021225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044920.D	1,2,3-Trichloropropane	JOHN	2/14/2025 9:37:18 AM	MMDadoda	2/14/2025 11:21:59 AM	Peak Integrated by Software
VX0212WBS01	VX044923.D	1,2,3-Trichloropropane	JOHN	2/14/2025 9:37:22 AM	MMDadoda	2/14/2025 11:22:01 AM	Peak Integrated by Software
VX0212WBSD01	VX044924.D	1,2,3-Trichloropropane	JOHN	2/14/2025 9:37:26 AM	MMDadoda	2/14/2025 11:22:04 AM	Peak Integrated by Software
VSTDCCC050	VX044946.D	1,2,3-Trichloropropane	JOHN	2/14/2025 9:45:41 AM	MMDadoda	2/14/2025 11:22:18 AM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM		
SubDirectory	VX021025	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044867.D	10 Feb 2025 09:35	JC/MD	Ok
2	VSTDICC001	VX044868.D	10 Feb 2025 10:25	JC/MD	Ok,M
3	VSTDICC005	VX044869.D	10 Feb 2025 10:48	JC/MD	Ok,M
4	VSTDICC020	VX044870.D	10 Feb 2025 11:11	JC/MD	Ok,M
5	VSTDICCC050	VX044871.D	10 Feb 2025 11:34	JC/MD	Ok,M
6	VSTDICC100	VX044872.D	10 Feb 2025 12:05	JC/MD	Ok,M
7	VSTDICC150	VX044873.D	10 Feb 2025 12:28	JC/MD	Ok,M
8	IBLK	VX044874.D	10 Feb 2025 12:51	JC/MD	Ok
9	VSTDICV050	VX044875.D	10 Feb 2025 13:15	JC/MD	Ok,M
10	VX0210MBL01	VX044876.D	10 Feb 2025 13:43	JC/MD	Ok
11	VX0210WBL01	VX044877.D	10 Feb 2025 14:06	JC/MD	Ok
12	VX0210WBS01	VX044878.D	10 Feb 2025 14:29	JC/MD	Ok,M
13	VX0210WBSD01	VX044879.D	10 Feb 2025 14:55	JC/MD	Ok,M
14	Q1250-02	VX044880.D	10 Feb 2025 15:18	JC/MD	Ok
15	Q1250-01	VX044881.D	10 Feb 2025 15:41	JC/MD	Ok
16	Q1250-03	VX044882.D	10 Feb 2025 16:04	JC/MD	Ok
17	Q1250-04	VX044883.D	10 Feb 2025 16:27	JC/MD	Ok
18	Q1250-05	VX044884.D	10 Feb 2025 16:51	JC/MD	Ok
19	Q1250-10	VX044885.D	10 Feb 2025 17:14	JC/MD	Ok
20	Q1250-11	VX044886.D	10 Feb 2025 17:37	JC/MD	Ok
21	Q1250-12	VX044887.D	10 Feb 2025 18:00	JC/MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM		
SubDirectory	VX021025	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1250-06	VX044888.D	10 Feb 2025 18:23	JC/MD	Ok
23	Q1250-07MS	VX044889.D	10 Feb 2025 18:46	JC/MD	Ok,M
24	Q1250-08MSD	VX044890.D	10 Feb 2025 19:09	JC/MD	Ok,M
25	VSTDCCC050	VX044891.D	10 Feb 2025 19:32	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 # VX021225

Review By	John Carlone	Review On	2/14/2025 9:49:05 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/14/2025 11:22:27 AM		
SubDirectory	VX021225	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133001
Initial Calibration Stds	
CCC	VP133002,VP133003,VP133026,VP133027,VP133028,VP133029,VP133030,VP133032
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044919.D	12 Feb 2025 09:39	JC/MD	Ok
2	VSTDCCC050	VX044920.D	12 Feb 2025 10:07	JC/MD	Ok,M
3	VX0212MBL01	VX044921.D	12 Feb 2025 10:34	JC/MD	Ok
4	VX0212WBL01	VX044922.D	12 Feb 2025 10:57	JC/MD	Ok
5	VX0212WBS01	VX044923.D	12 Feb 2025 11:20	JC/MD	Ok,M
6	VX0212WBSD01	VX044924.D	12 Feb 2025 11:46	JC/MD	Ok,M
7	Q1347-03	VX044925.D	12 Feb 2025 12:09	JC/MD	Ok
8	Q1347-01	VX044926.D	12 Feb 2025 12:32	JC/MD	Ok
9	Q1347-02	VX044927.D	12 Feb 2025 12:55	JC/MD	Ok
10	Q1347-04	VX044928.D	12 Feb 2025 13:17	JC/MD	Ok
11	Q1347-05	VX044929.D	12 Feb 2025 13:40	JC/MD	Ok
12	Q1347-06	VX044930.D	12 Feb 2025 14:03	JC/MD	Ok
13	Q1168-07 0.2PPB	VX044931.D	12 Feb 2025 14:26	JC/MD	Ok,M
14	Q1168-07 0.5PPB	VX044932.D	12 Feb 2025 14:49	JC/MD	Ok,M
15	Q1168-07 0.75PPB	VX044933.D	12 Feb 2025 15:12	JC/MD	Ok,M
16	Q1168-07 2.5PPB	VX044934.D	12 Feb 2025 15:35	JC/MD	Ok,M
17	Q1168-08 1.0PPB	VX044935.D	12 Feb 2025 15:58	JC/MD	Ok,M
18	Q1168-08 5.0PPB	VX044936.D	12 Feb 2025 16:21	JC/MD	Ok,M
19	Q1355-01	VX044937.D	12 Feb 2025 16:44	JC/MD	Ok,M
20	Q1355-02	VX044938.D	12 Feb 2025 17:07	JC/MD	Ok
21	PB166691TB	VX044939.D	12 Feb 2025 17:30	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021225

Review By	John Carlone	Review On	2/14/2025 9:49:05 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/14/2025 11:22:27 AM		
SubDirectory	VX021225	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133001
Initial Calibration Stds	
CCC	VP133002,VP133003,VP133026,VP133027,VP133028,VP133029,VP133030,VP133032
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1356-09	VX044940.D	12 Feb 2025 17:53	JC/MD	Ok
23	Q1356-04	VX044941.D	12 Feb 2025 18:16	JC/MD	Ok
24	Q1356-05	VX044942.D	12 Feb 2025 18:39	JC/MD	Ok
25	Q1356-06	VX044943.D	12 Feb 2025 19:02	JC/MD	Ok
26	Q1356-07	VX044944.D	12 Feb 2025 19:25	JC/MD	Ok
27	Q1356-08	VX044945.D	12 Feb 2025 19:48	JC/MD	Ok
28	VSTDCCC050	VX044946.D	12 Feb 2025 20:11	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM		
SubDirectory	VX021025	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044867.D	10 Feb 2025 09:35		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX044868.D	10 Feb 2025 10:25		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX044869.D	10 Feb 2025 10:48		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX044870.D	10 Feb 2025 11:11		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX044871.D	10 Feb 2025 11:34		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX044872.D	10 Feb 2025 12:05		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX044873.D	10 Feb 2025 12:28		JC/MD	Ok,M
8	IBLK	IBLK	VX044874.D	10 Feb 2025 12:51		JC/MD	Ok
9	VSTDICV050	ICVVX021025	VX044875.D	10 Feb 2025 13:15		JC/MD	Ok,M
10	VX0210MBL01	VX0210MBL01	VX044876.D	10 Feb 2025 13:43		JC/MD	Ok
11	VX0210WBL01	VX0210WBL01	VX044877.D	10 Feb 2025 14:06		JC/MD	Ok
12	VX0210WBS01	VX0210WBS01	VX044878.D	10 Feb 2025 14:29		JC/MD	Ok,M
13	VX0210WBSD01	VX0210WBSD01	VX044879.D	10 Feb 2025 14:55		JC/MD	Ok,M
14	Q1250-02	BP-VPB-192-GW-420-4	VX044880.D	10 Feb 2025 15:18	vial B pH<2	JC/MD	Ok
15	Q1250-01	BP-VPB-192-TB-20250	VX044881.D	10 Feb 2025 15:41	vial B pH<2 TB	JC/MD	Ok
16	Q1250-03	BP-VPB-192-GW-300-3	VX044882.D	10 Feb 2025 16:04	vial B pH<2	JC/MD	Ok
17	Q1250-04	BP-VPB-192-GW-320-3	VX044883.D	10 Feb 2025 16:27	vial B pH<2	JC/MD	Ok
18	Q1250-05	BP-VPB-192-GW-340-3	VX044884.D	10 Feb 2025 16:51	vial B pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM		
SubDirectory	VX021025	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1250-10	BP-VPB-192-GW-380-3	VX044885.D	10 Feb 2025 17:14	vial B pH<2	JC/MD	Ok
20	Q1250-11	BP-VPB-192-GW-400-4	VX044886.D	10 Feb 2025 17:37	vial B pH<2	JC/MD	Ok
21	Q1250-12	BP-VPB-192-GW-440-4	VX044887.D	10 Feb 2025 18:00	vial B pH<2	JC/MD	Ok
22	Q1250-06	BP-VPB-192-GW-360-3	VX044888.D	10 Feb 2025 18:23	vial B pH<2	JC/MD	Ok
23	Q1250-07MS	BP-VPB-192-GW-360-3	VX044889.D	10 Feb 2025 18:46	vial B pH<2	JC/MD	Ok,M
24	Q1250-08MSD	BP-VPB-192-GW-360-3	VX044890.D	10 Feb 2025 19:09	vial B pH<2	JC/MD	Ok,M
25	VSTDCCC050	VSTDCCC050EC	VX044891.D	10 Feb 2025 19:32		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021225

Review By	John Carlone	Review On	2/14/2025 9:49:05 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/14/2025 11:22:27 AM		
SubDirectory	VX021225	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133001
Initial Calibration Stds	
CCC	VP133002,VP133003,VP133026,VP133027,VP133028,VP133029,VP133030,VP133032
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	VX044919.D	12 Feb 2025 09:39		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044920.D	12 Feb 2025 10:07	V13516	JC/MD	Ok,M
3	VX0212MBL01	VX0212MBL01	VX044921.D	12 Feb 2025 10:34		JC/MD	Ok
4	VX0212WBL01	VX0212WBL01	VX044922.D	12 Feb 2025 10:57		JC/MD	Ok
5	VX0212WBS01	VX0212WBS01	VX044923.D	12 Feb 2025 11:20		JC/MD	Ok,M
6	VX0212WBSD01	VX0212WBSD01	VX044924.D	12 Feb 2025 11:46		JC/MD	Ok,M
7	Q1347-03	BP-VPB-192-GW-710-7	VX044925.D	12 Feb 2025 12:09	vial A pH<2	JC/MD	Ok
8	Q1347-01	BP-VPB-192-EB-20250	VX044926.D	12 Feb 2025 12:32	vial A pH<2 EB;Hit of comp.#16	JC/MD	Ok
9	Q1347-02	BP-VPB-192-TB-20250	VX044927.D	12 Feb 2025 12:55	vial A pH<2 TB	JC/MD	Ok
10	Q1347-04	BP-VPB-192-GW-640-6	VX044928.D	12 Feb 2025 13:17	vial A pH<2	JC/MD	Ok
11	Q1347-05	BP-VPB-192-GW-660-6	VX044929.D	12 Feb 2025 13:40	vial A+B pH<2	JC/MD	Ok
12	Q1347-06	BP-VPB-192-GW-680-6	VX044930.D	12 Feb 2025 14:03	vial A+B pH<2	JC/MD	Ok
13	Q1168-07 0.2PPB	LOD-MDL-WATER-01-(	VX044931.D	12 Feb 2025 14:26		JC/MD	Ok,M
14	Q1168-07 0.5PPB	LOD-MDL-WATER-01-(	VX044932.D	12 Feb 2025 14:49		JC/MD	Ok,M
15	Q1168-07 0.75PPB	LOD-MDL-WATER-01-(	VX044933.D	12 Feb 2025 15:12		JC/MD	Ok,M
16	Q1168-07 2.5PPB	LOD-MDL-WATER-01-(	VX044934.D	12 Feb 2025 15:35		JC/MD	Ok,M
17	Q1168-08 1.0PPB	LOQ-WATER-02-QT1-2	VX044935.D	12 Feb 2025 15:58		JC/MD	Ok,M
18	Q1168-08 5.0PPB	LOQ-WATER-02-QT1-2	VX044936.D	12 Feb 2025 16:21		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021225

Review By	John Carlone	Review On	2/14/2025 9:49:05 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/14/2025 11:22:27 AM		
SubDirectory	VX021225	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133001
Initial Calibration Stds	
CCC	VP133002,VP133003,VP133026,VP133027,VP133028,VP133029,VP133030,VP133032
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1355-01	RW1	VX044937.D	12 Feb 2025 16:44	vial A pH<2	JC/MD	Ok,M
20	Q1355-02	MW2	VX044938.D	12 Feb 2025 17:07	vial A pH<2	JC/MD	Ok
21	PB166691TB	PB166691TB	VX044939.D	12 Feb 2025 17:30		JC/MD	Ok
22	Q1356-09	SOIL-FB	VX044940.D	12 Feb 2025 17:53	vial A pH#5.0 FB	JC/MD	Ok
23	Q1356-04	CARBON-WATER	VX044941.D	12 Feb 2025 18:16	vial A pH#5.0	JC/MD	Ok
24	Q1356-05	CARBON-FB	VX044942.D	12 Feb 2025 18:39	vial A pH#5.0 FB	JC/MD	Ok
25	Q1356-06	WATER-A	VX044943.D	12 Feb 2025 19:02	vial A pH#5.0	JC/MD	Ok
26	Q1356-07	WATER-B	VX044944.D	12 Feb 2025 19:25	vial A pH#5.0	JC/MD	Ok
27	Q1356-08	WATER-FB	VX044945.D	12 Feb 2025 19:48	vial A pH#5.0 FB	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX044946.D	12 Feb 2025 20:11		JC/MD	Ok,M

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Prep Standard - Chemical Standard Summary

Order ID : Q1347

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VX021225,

Standard ID :
VP130430,VP131746,VP131767,VP132035,VP132037,VP132096,VP132097,VP132100,VP132101,VP132103,VP132543,VP132545,VP132613,VP132615,VP132679,VP133001,VP133002,VP133003,VP133026,VP133027,VP133028,VP133029,VP133030,VP133032,

Chemical ID :
V12967,V13391,V13446,V13449,V13457,V13460,V13465,V13466,V13582,V13707,V13809,V13919,V14126,V14145,V14154,V14175,V14176,V14179,V14289,V14290,V14425,V14433,V14439,V14521,V14522,V14614,V14624,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14801,V14814,W3112,

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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	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2024

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

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

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VOC STANDARD PREPARATION LOG

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

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

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VOC STANDARD PREPARATION LOG

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
251	8260 Internal STD & Surrogate Mix, 250PPM	VP132100	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.25000ml of V13707 + 0.25000ml of V14290 + 24.50000ml 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
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
1818	8260 Working Std(2-CVE)-SS, 50ppm	VP132103	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 4.68750ml of V14614 + 0.31250ml of VP132101 = Final Quantity: 5.000 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	VP132543	01/14/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/17/2025

FROM 0.16000ml of V13449 + 0.80000ml of V13809 + 0.80000ml of V14126 + 0.80000ml of V14179 + 0.80000ml of V14425 + 0.80000ml of V14801 + 1.60000ml of V13919 + 4.24000ml of V14624 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
820	8260 Calibration Working STD Mix-Second source, 10PPM	VP132545	01/14/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/17/2025

FROM 4.68750ml of V14624 + 0.31250ml of VP132543 = Final Quantity: 5.000 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	VP132613	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 0.40000ml of V13446 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 + 1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml of V14624 = 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	VP132615	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 17.50000ml of V14624 + 2.50000ml of VP132613 = 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
825	8260 Working STD (BCM)-Second source, 10PPM	VP132679	01/24/2025	07/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 0.10000ml of V12967 + 9.90000ml of V14624 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP133001	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/14/2025

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	VP133002	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/14/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132613 = 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	VP133003	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/14/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132613 = Final Quantity: 40.000 ml

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Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2390	0.2PPB LOD, 8260-Water	VP133026	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/17/2025

FROM 39.98840ml of W3112 + 0.00080ml of VP132103 + 0.00080ml of VP132545 + 0.00080ml of VP132679 + 0.00800ml of VP132100 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
834	0.5 PPB LOD, 8260-WATER	VP133027	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/17/2025

FROM 39.98300ml of W3112 + 0.00200ml of VP132103 + 0.00200ml of VP132545 + 0.00200ml of VP132679 + 0.00800ml of VP132100 = 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
891	0.75 PPB LOD, 8260-WATER	VP133028	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/17/2025

FROM 39.97000ml of W3112 + 0.00300ml of VP132103 + 0.00300ml of VP132545 + 0.00300ml of VP132679 + 0.00500ml of VP130430 + 0.00800ml of VP131746 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
837	2.5 PPB LOD, 8260-WATER	VP133029	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/17/2025

FROM 39.94200ml of W3112 + 0.00800ml of VP132100 + 0.01000ml of VP132103 + 0.01000ml of VP132545 + 0.01000ml of VP132679 = 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
3742	1.0 PPB LOQ 8260 Water	VP133030	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/17/2025

FROM 39.98000ml of W3112 + 0.00200ml of VP132037 + 0.00200ml of VP132097 + 0.00200ml of VP132615 + 0.00500ml of VP130430 + 0.00800ml of VP131746 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3748	8260 5.0 PPB LOQ/WATER	VP133032	02/12/2025	02/13/2025	John Carlone	None	None	Mahesh Dadoda 02/17/2025

FROM 39.94000ml of W3112 + 0.00500ml of VP130430 + 0.00800ml of VP131746 + 0.01000ml of VP132037 + 0.01000ml of VP132097 + 0.01000ml of VP132615 = 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	A0181905	02/28/2025	01/10/2025 / SAM	01/23/2023 / SAM	V13446

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

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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	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

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	10/31/2029	01/07/2025 / SAM	05/31/2023 / SAM	V13809

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

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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	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14179

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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	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	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	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	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

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	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14756

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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	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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

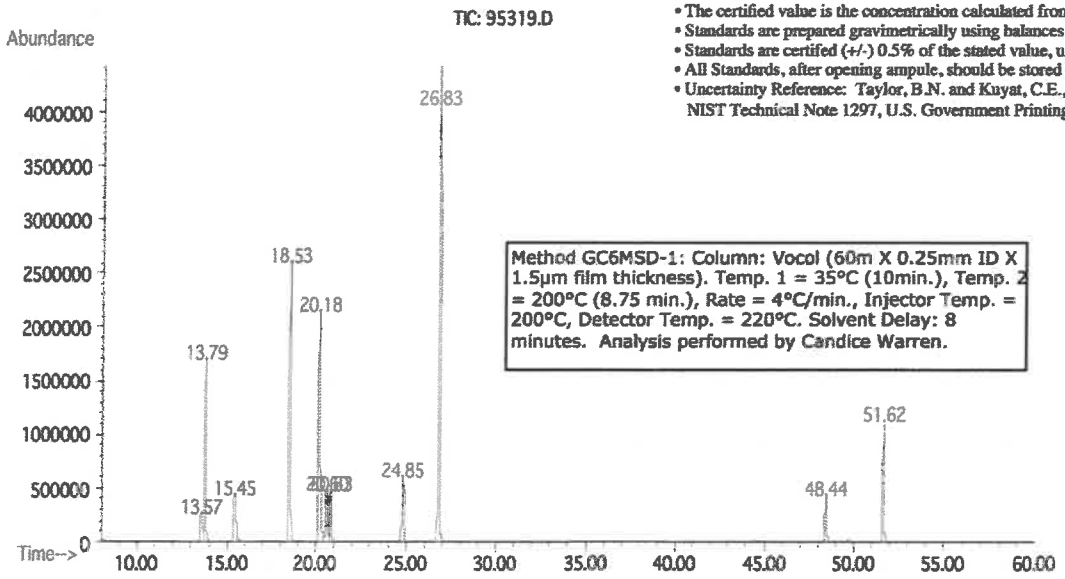
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

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

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

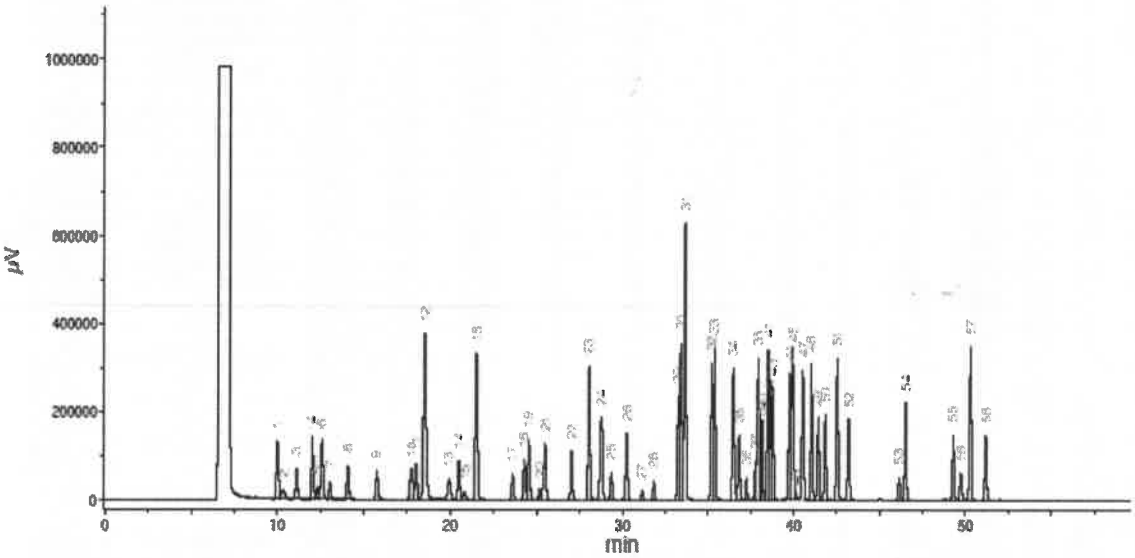
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expended Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20570	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1260mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
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	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

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): Methanol **Lot#** EG359-USQ12

Formulated By:	Prashant Chauhan	021624	DATE
Reviewed By:	Pedro L. Rentas	021624	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 5E-05 Balance Uncertainty 0.021 Flask Uncertainty

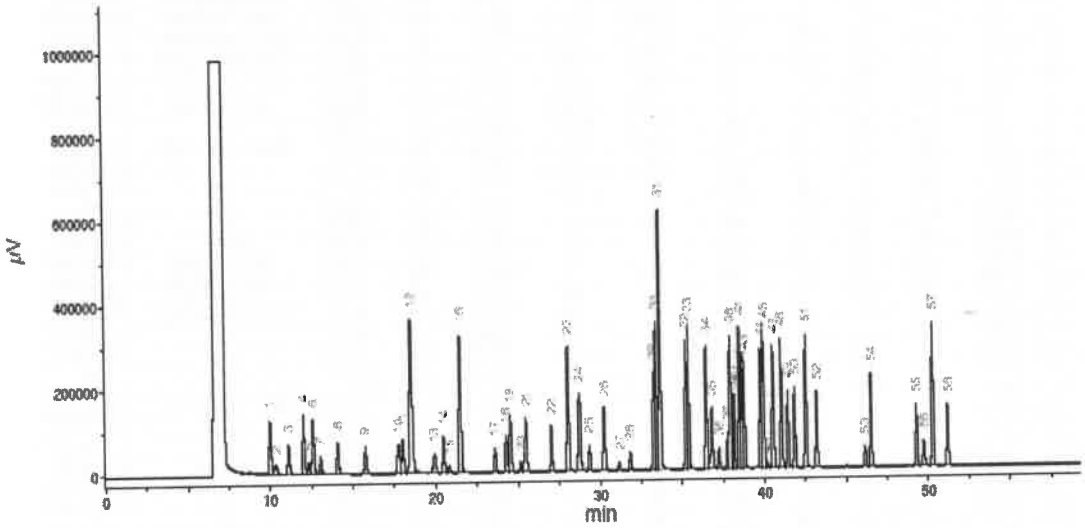
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	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)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.6	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty 5E-05 Balance Uncertainty

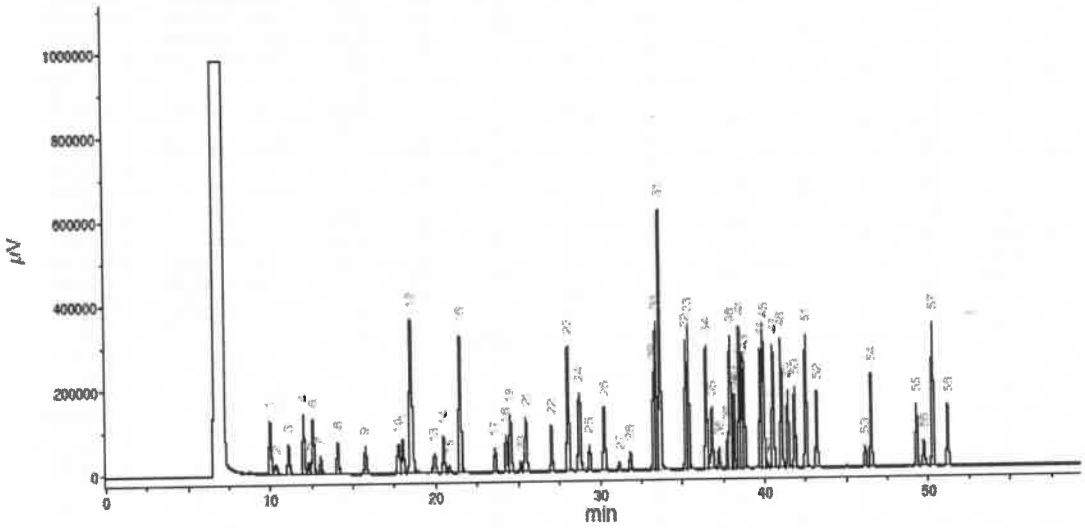
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 09/16/24 2 Vials

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

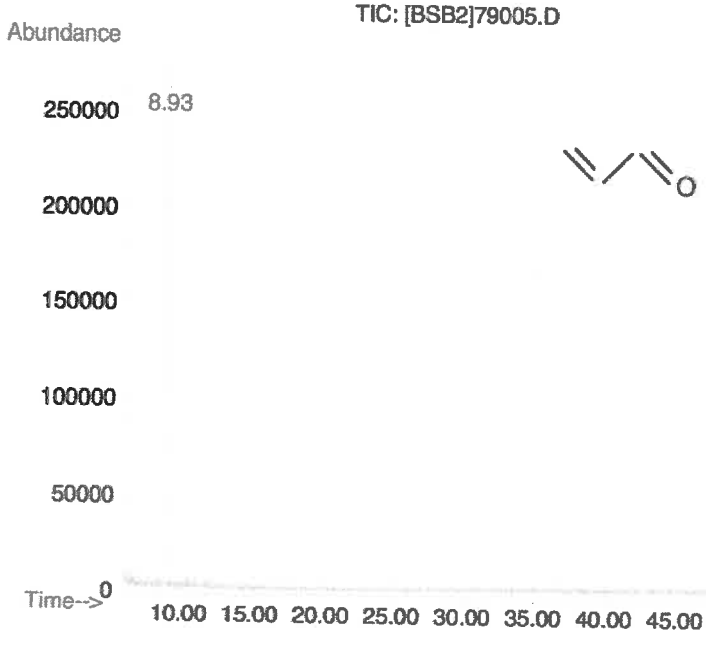
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

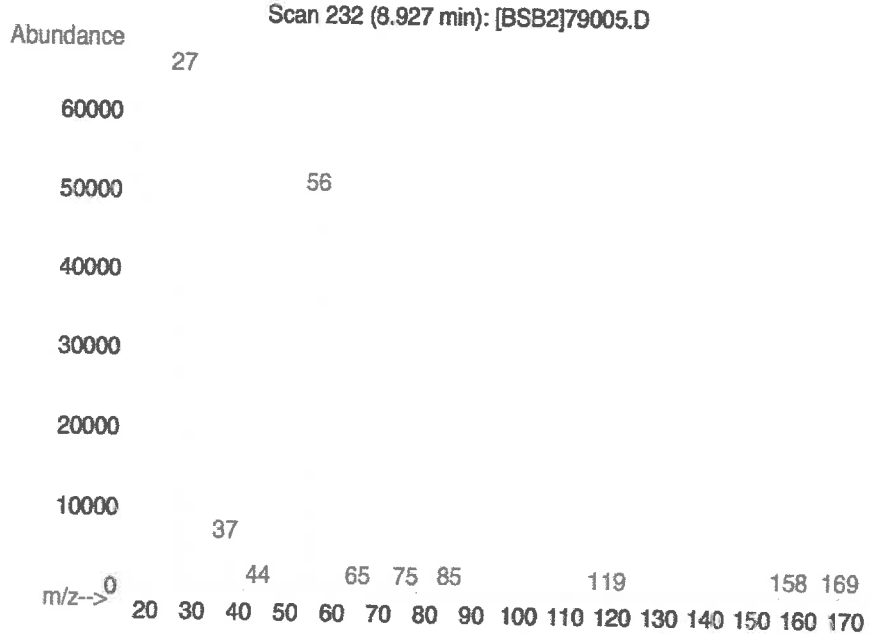
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Rec 09/16/24 2 Vials

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

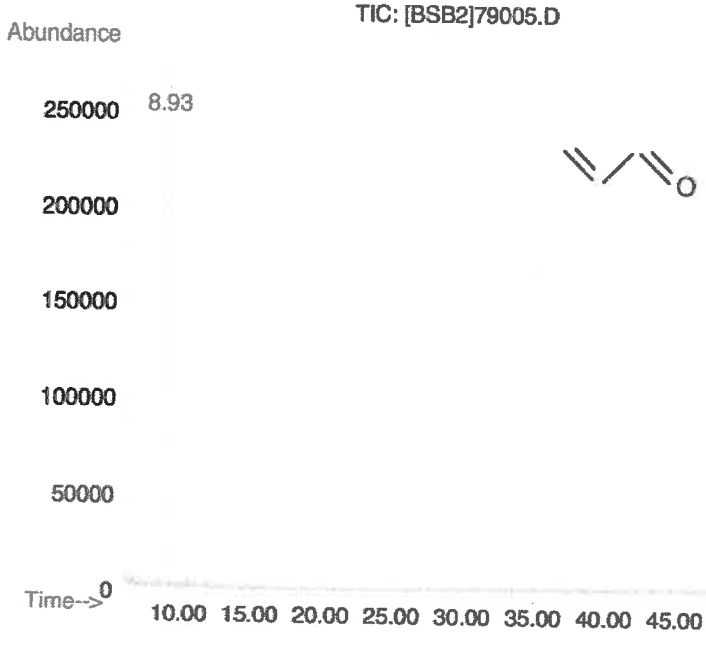
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

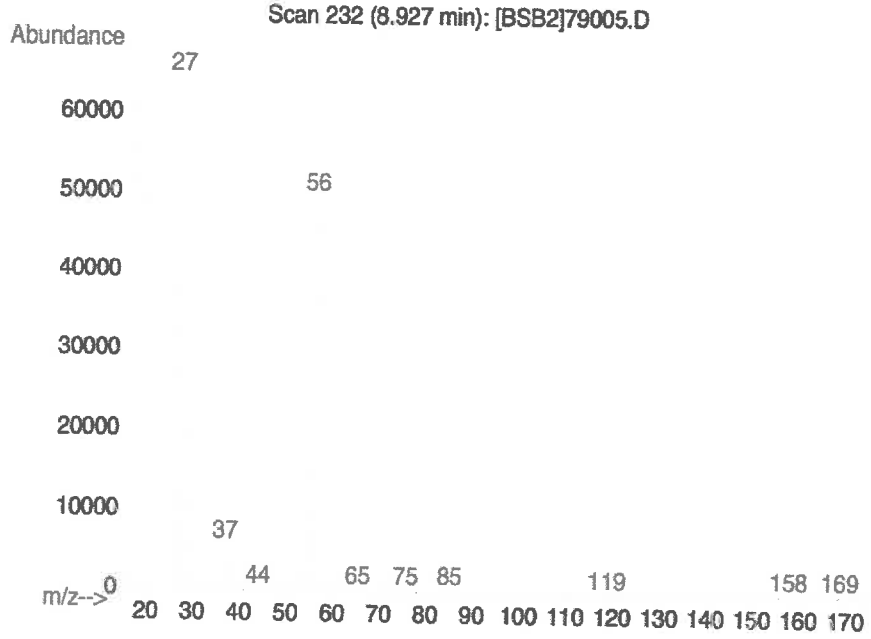
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

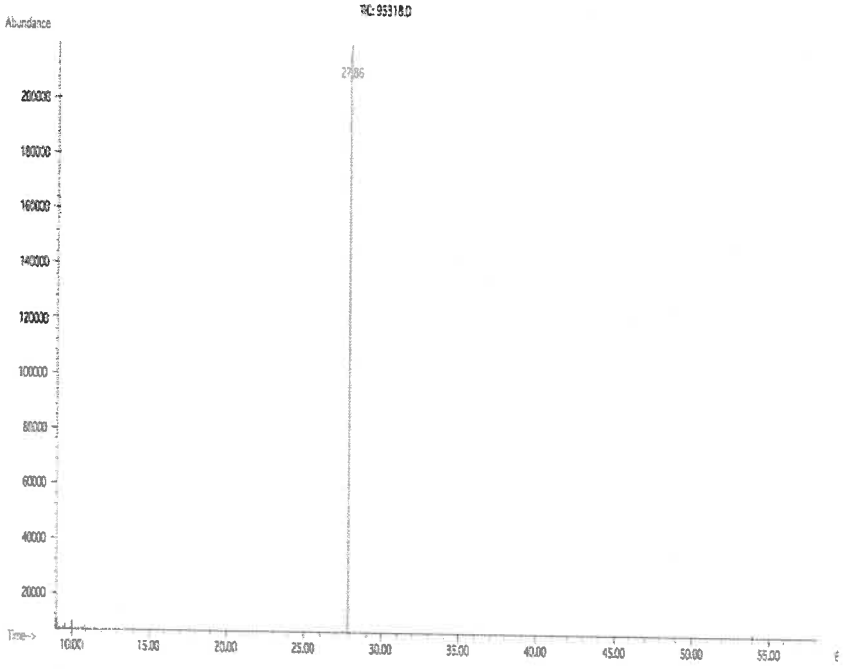
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

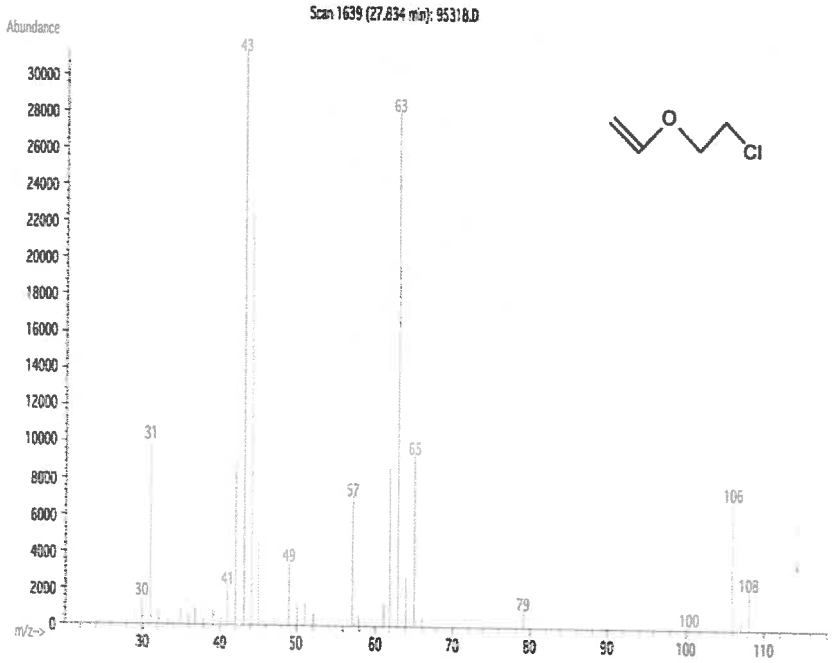
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

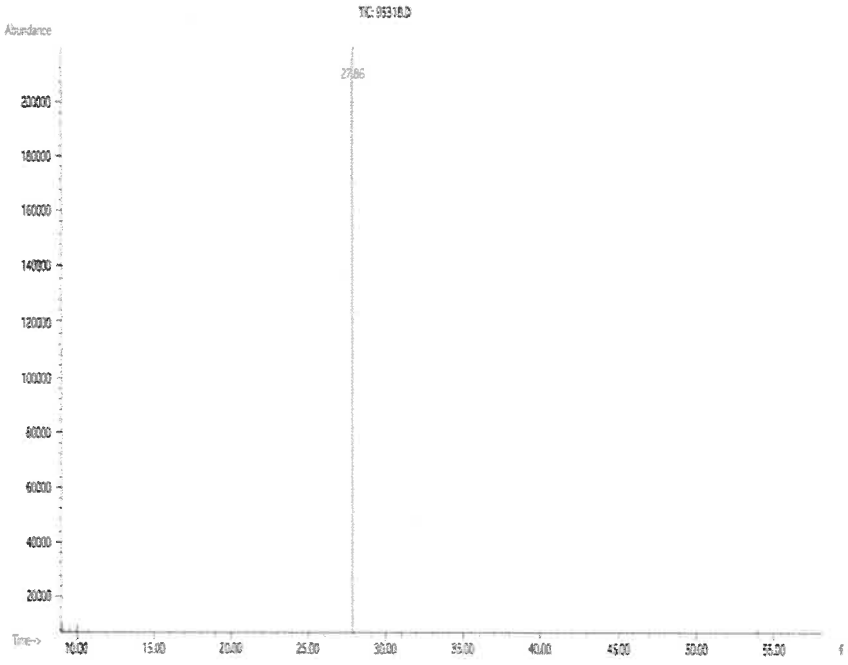
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

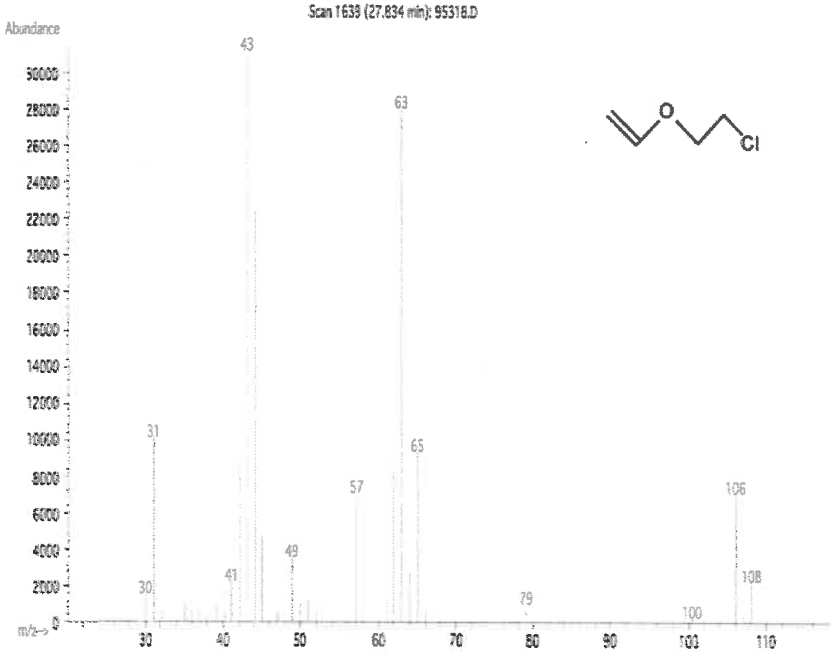
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro L. Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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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

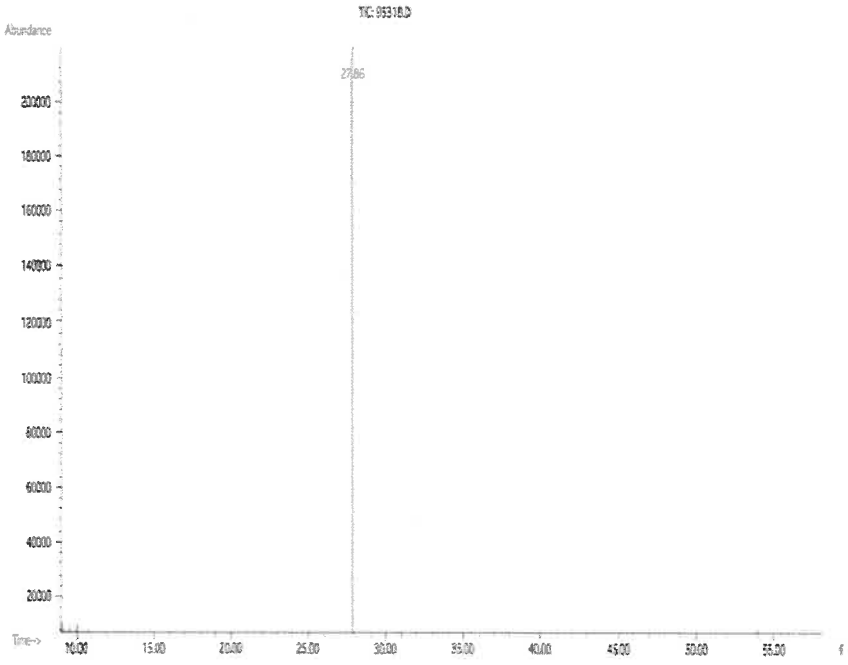
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

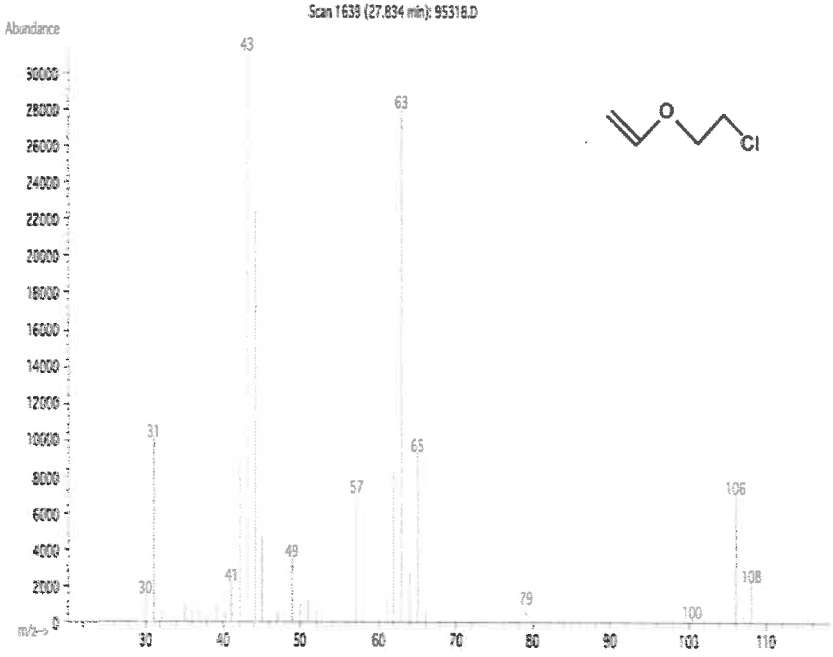
Weight(s) shown below were combined and diluted to (mL): 50.0

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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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

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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.
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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
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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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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

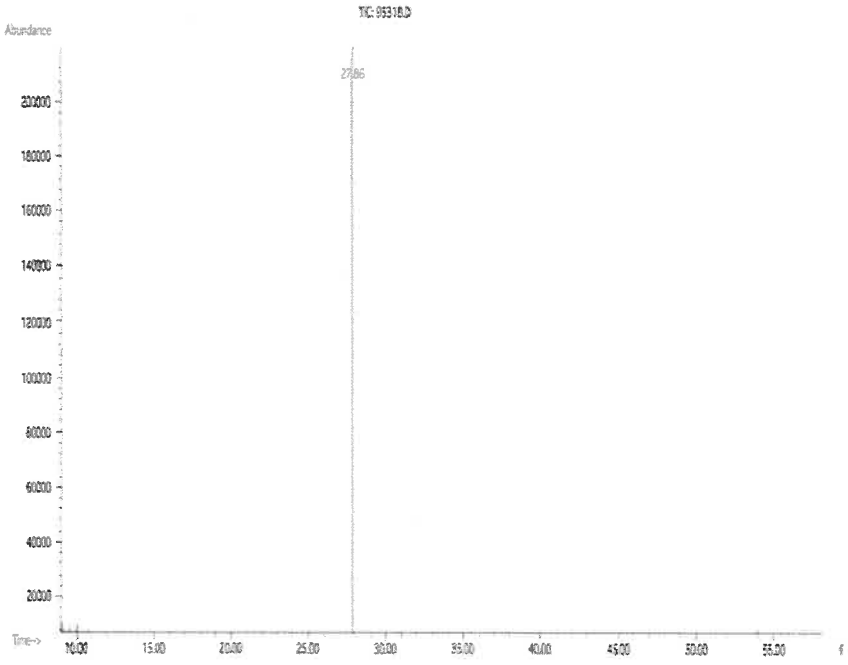
Solvent(s): Methanol **Lot#** EJ143-US

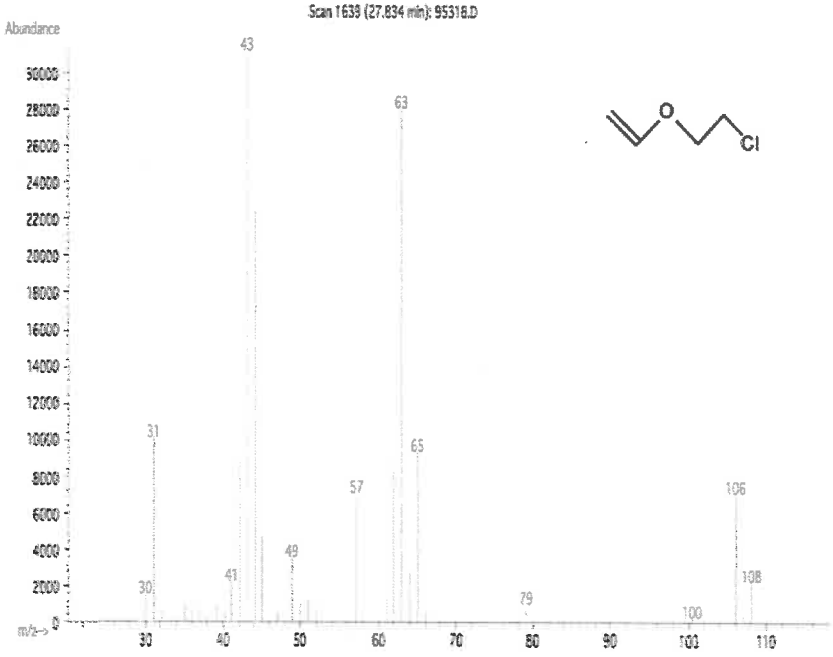
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN 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.
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Solubility in Water COMPLETE

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Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
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Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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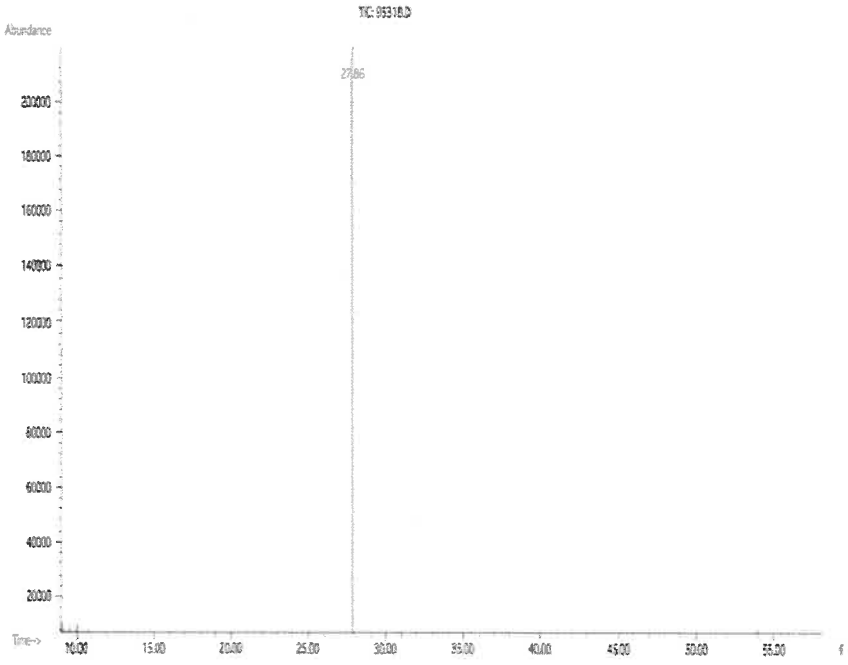

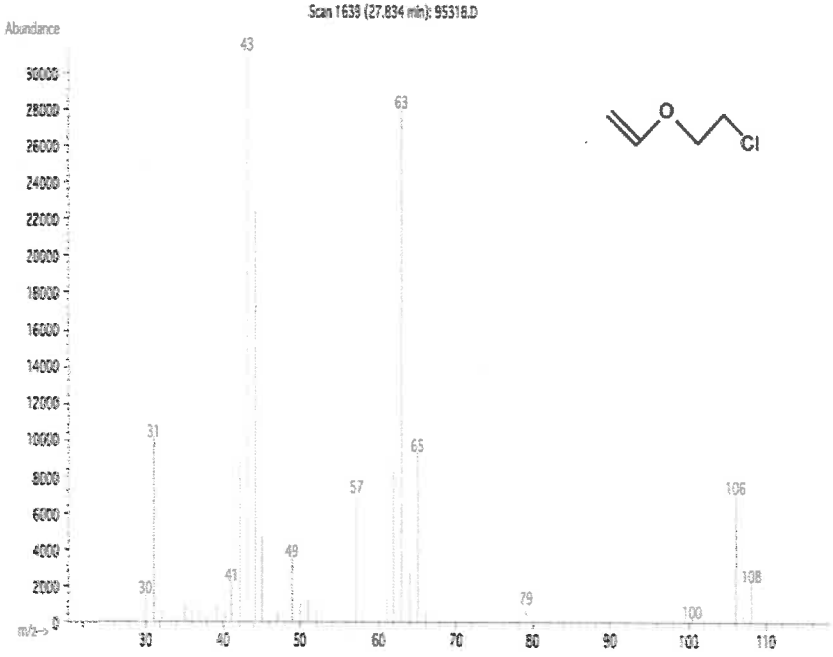

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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.:** A0181905

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 : February 28, 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)		50,126.0	µg/mL	+/- 293.4988	µg/mL	Gravimetric
	CAS # 75-65-0	(Lot SHBM7694)			+/- 1,073.7654	µg/mL	Unstressed
	Purity 99%				+/- 1,104.9494	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)

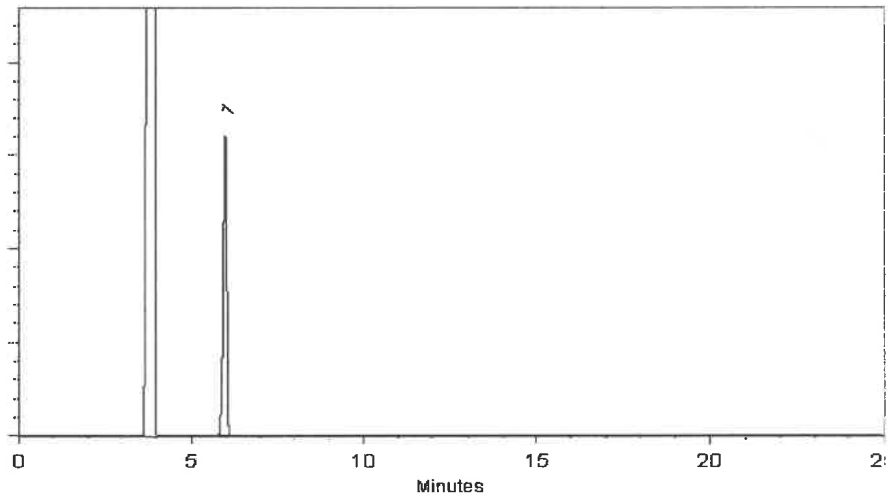
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 21-Feb-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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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)

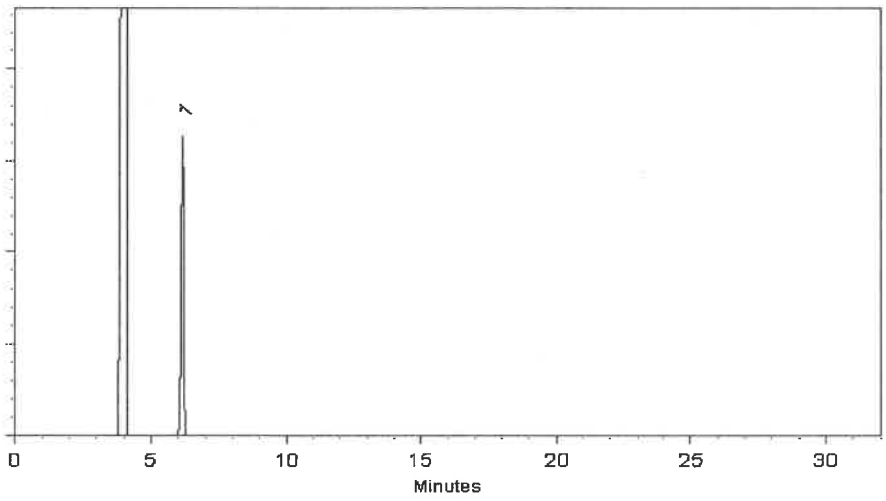
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

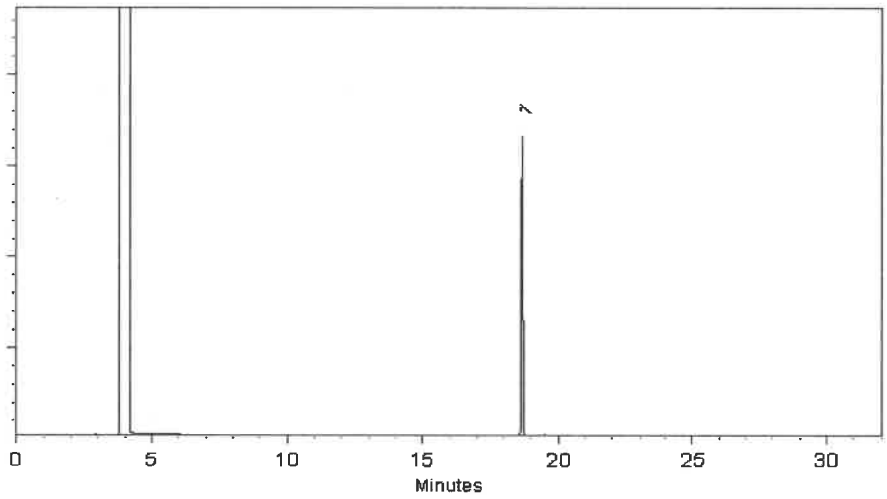
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

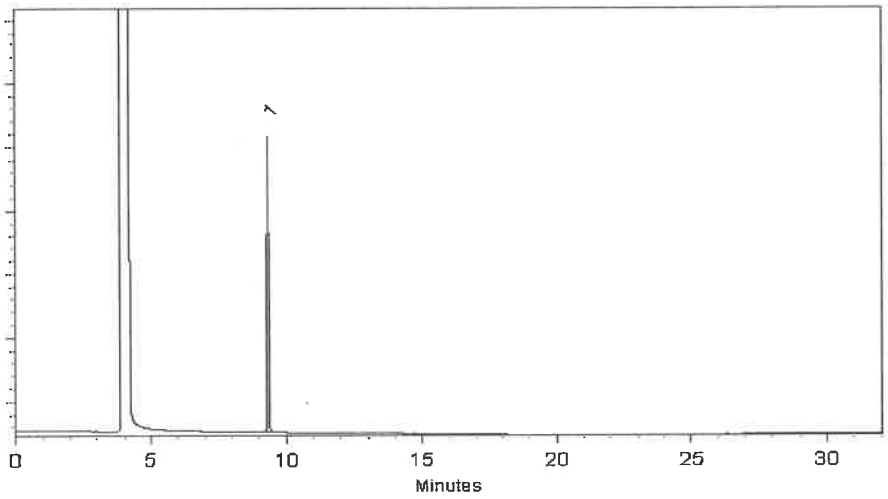
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.)

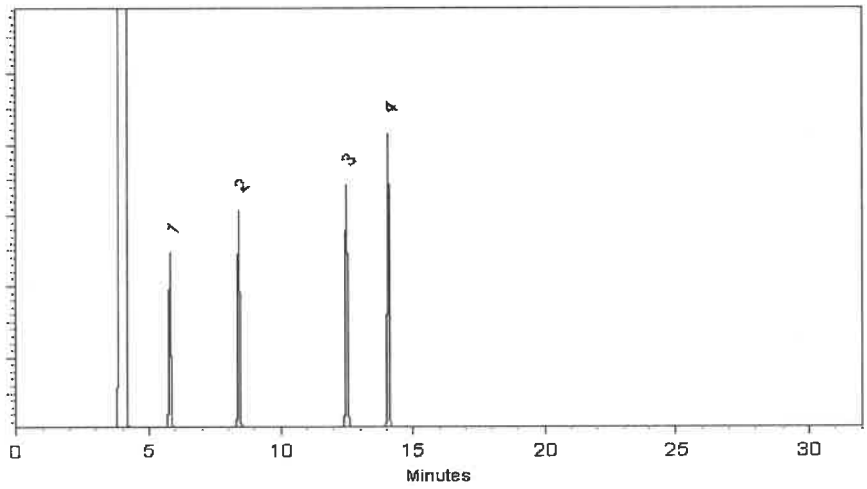
Inj. Temp:
200°C

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:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** 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.

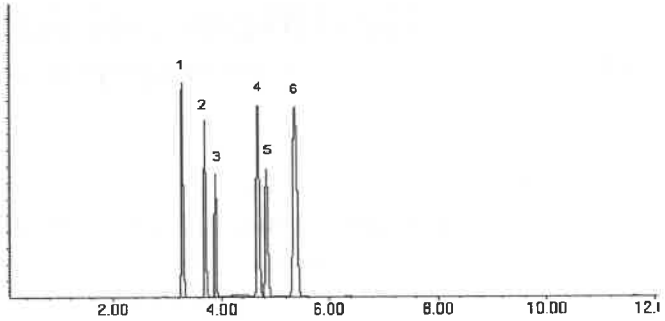
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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: 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:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** 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.)

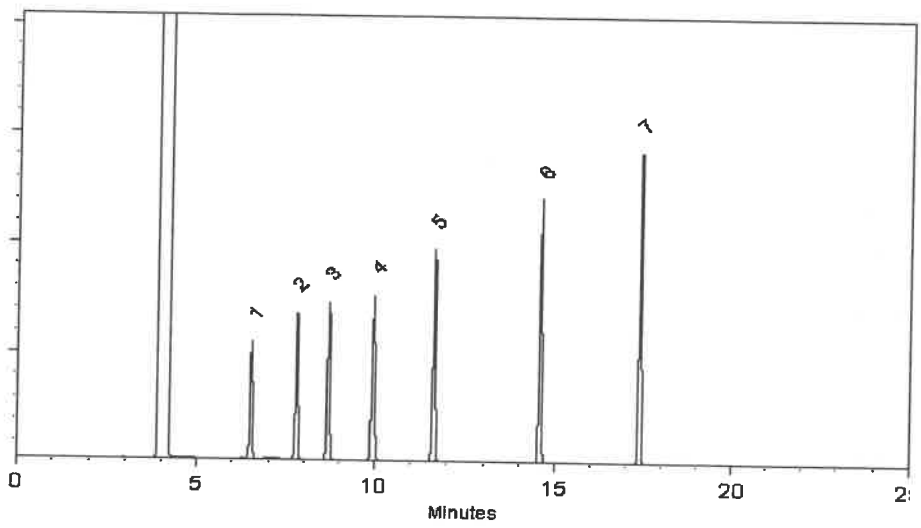
Inj. Temp:
200°C

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:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

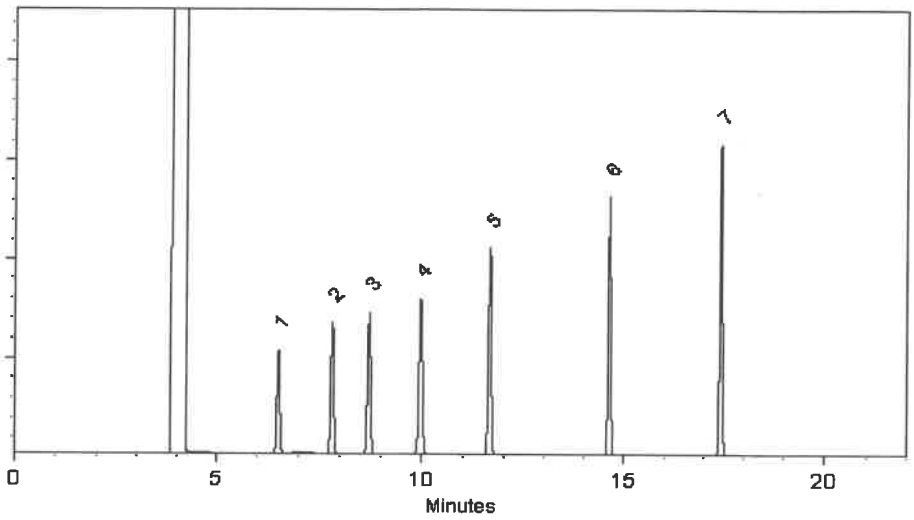
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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 of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

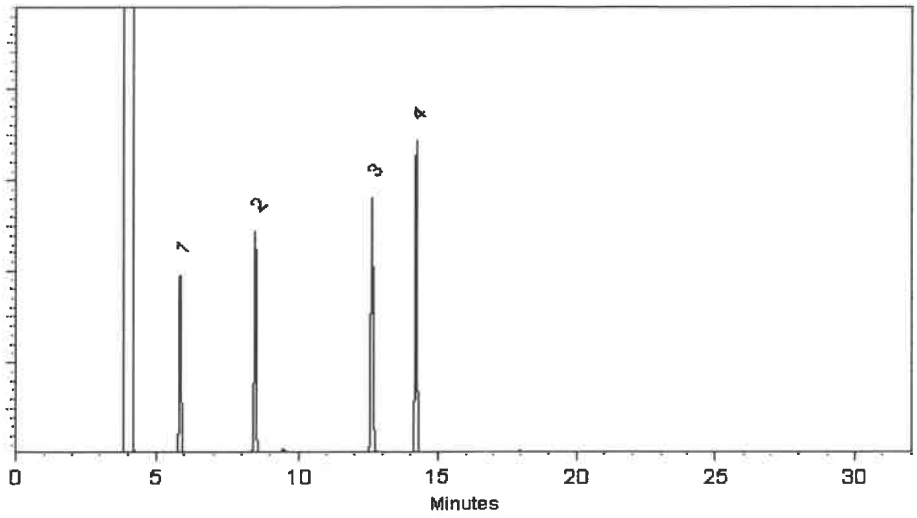
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

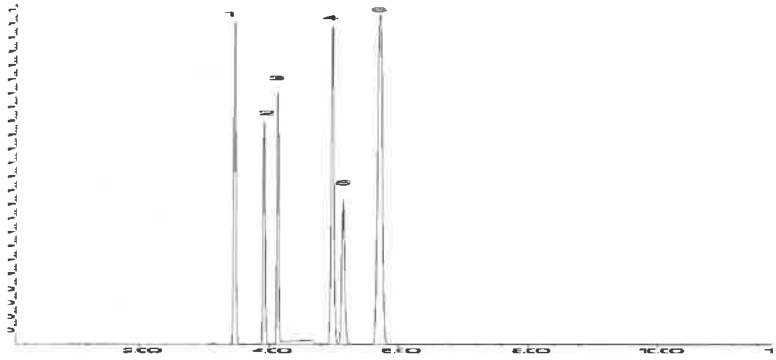
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

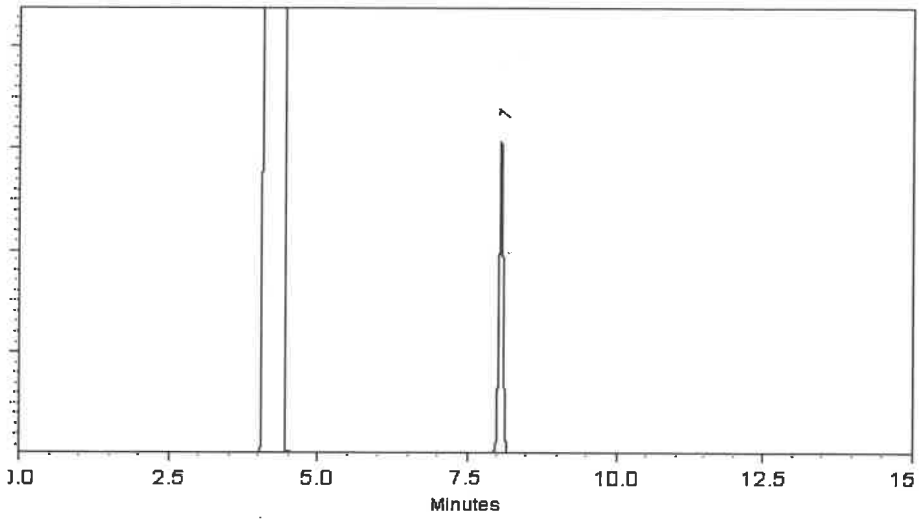
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14793 to 14802

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

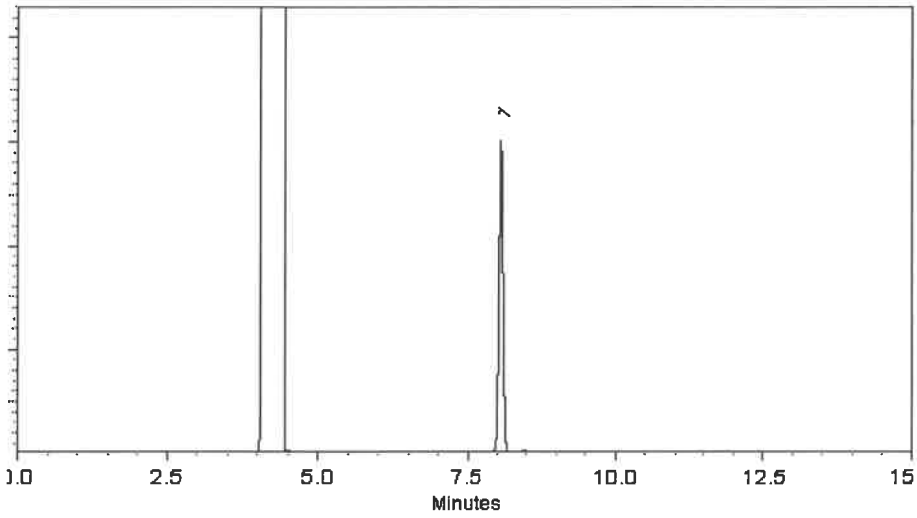
Inj. Temp:
200°C

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

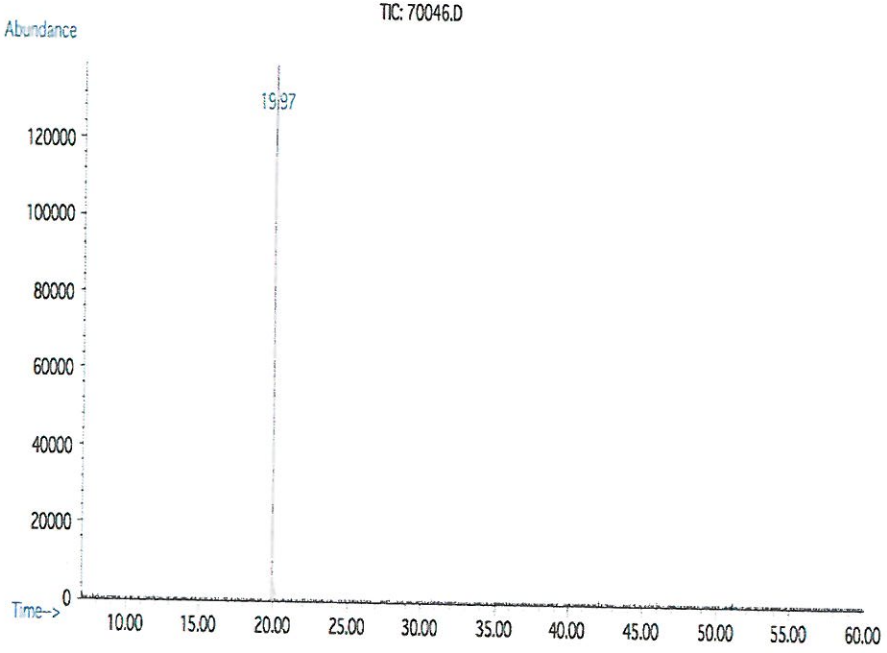
Weight(s) shown below were combined and diluted to (mL): 25.0

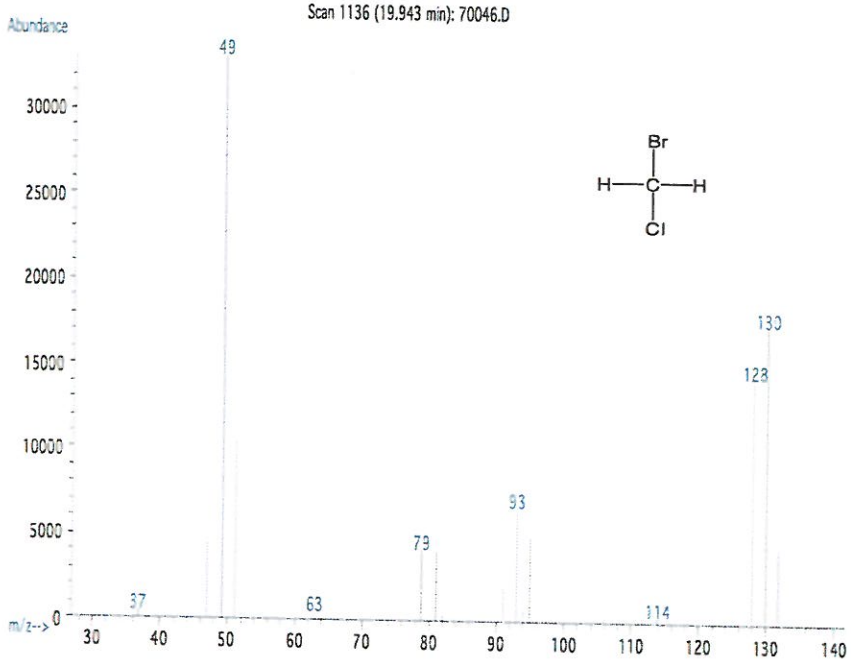
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

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®

Material No.: 9077-02
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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

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q1347

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-192
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*
HARD COPY: 10 DAYS*
EDD 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

	1	2	3	4	5	6	7	8	9
	VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)							

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1.	BP-VPB-192-EB-20250207	QA		X	2/7/25	8:30	3		2	1								
2.	BP-VPB-192-TB-20250206	QA		X	2/6/25	9:00	2		2									Trip blank
3.	BP-VPB-192-GW-710-712	AQ		X	2/10/25	11:10	2		2	1								
4.	BP-VPB-192-GW-640-642	AQ		X	2/6/25	9:30	2		2									
5.	BP-VPB-192-GW-660-662	AQ		X	2/6/25	12:02	5		4	1								Extra 8260B
6.	BP-VPB-192-GW-680-682	AQ		X	2/6/25	14:20	2		2									
7.																		
8.																		
9.																		
10.																		

PRESERVATIVES — COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	2/10/25 1530	1. 1530 2-10-25
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	2/10/25 1818	3.

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 2.8°
MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler?:_____
Comments: Standard TAT

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

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 : Q1347 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 2/10/2025 3:45:00 PM
Project Name : CTO WE13
Receive DateTime : 2/10/2025 ~~12:00:00~~ AM 18:18
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1347-01	BP-VPB-192-EB-20250207	Water	02/07/2025	08:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1347-02	BP-VPB-192-TB-20250206	Water	02/06/2025	09:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1347-03	BP-VPB-192-GW-710-712	Water	02/10/2025	11:10					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1347-04	BP-VPB-192-GW-640-642	Water	02/06/2025	09:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1347-05	BP-VPB-192-GW-660-662	Water	02/06/2025	12:02					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1347-06	BP-VPB-192-GW-680-682	Water	02/06/2025	14:20					
					VOCMS Group1		8260-Low		10 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1347 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 2/10/2025 3:45:00 PM
Project Name : CTO WE13
Receive DateTime : 2/10/2025 ~~12:00:00 AM~~ 18:18
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
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 : 2/11/25 0800

Received By : [signature]
Date / Time : 02/11/25 08:00 Rg# 4

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044868.D
Acq On : 10 Feb 2025 10:25
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 11 01:58:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	134134	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	254149	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	218570	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	90733	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.958	65	2473	1.259	ug/l		0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	2.520%#			
35) Dibromofluoromethane	5.379	113	2013	1.218	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	2.440%#			
50) Toluene-d8	8.653	98	6195	0.991	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	1.980%#			
62) 4-Bromofluorobenzene	11.085	95	1950	0.926	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	1.860%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	1655	0.880	ug/l		100
3) Chloromethane	1.307	50	2571	1.123	ug/l		94
4) Vinyl Chloride	1.374	62	2252	1.015	ug/l		96
5) Bromomethane	1.593	94	727	1.095	ug/l		91
6) Chloroethane	1.666	64	1341	2.609	ug/l		91
7) Trichlorofluoromethane	1.874	101	2849	1.016	ug/l		88
8) Diethyl Ether	2.130	74	1032	1.014	ug/l	#	37
9) 1,1,2-Trichlorotrifluo...	2.325	101	1564	0.923	ug/l	#	88
10) Methyl Iodide	2.447	142	1869	0.851	ug/l		99
11) Tert butyl alcohol	2.953	59	3020	8.291	ug/l	#	78
12) 1,1-Dichloroethene	2.307	96	1737	1.005	ug/l		85
13) Acrolein	2.239	56	2228	5.928	ug/l		100
14) Allyl chloride	2.654	41	3164	1.013	ug/l		90
15) Acrylonitrile	3.069	53	4527	4.655	ug/l		95
16) Acetone	2.380	43	4095	5.188	ug/l		92
17) Carbon Disulfide	2.502	76	4531	0.956	ug/l	#	88
18) Methyl Acetate	2.697	43	2367	0.950	ug/l		95
19) Methyl tert-butyl Ether	3.117	73	5206	0.946	ug/l	#	87
20) Methylene Chloride	2.782	84	2005	1.037	ug/l	#	90
21) trans-1,2-Dichloroethene	3.087	96	1631	0.959	ug/l		96
22) Diisopropyl ether	3.764	45	5496	0.930	ug/l	#	75
23) Vinyl Acetate	3.727	43	20663	4.288	ug/l		99
24) 1,1-Dichloroethane	3.605	63	3099	0.937	ug/l	#	93
25) 2-Butanone	4.587	43	5660	4.416	ug/l		93
26) 2,2-Dichloropropane	4.471	77	2566	0.978	ug/l		76
27) cis-1,2-Dichloroethene	4.489	96	1825	0.893	ug/l		91
28) Bromochloromethane	4.910	49	1702	1.071	ug/l	#	75
29) Tetrahydrofuran	5.026	42	4014	4.716	ug/l		99
30) Chloroform	5.093	83	3132	0.976	ug/l		94
31) Cyclohexane	5.458	56	2960	0.971	ug/l	#	80
32) 1,1,1-Trichloroethane	5.379	97	2721	1.000	ug/l	#	50
36) 1,1-Dichloropropene	5.684	75	2399	1.006	ug/l		94
37) Ethyl Acetate	4.721	43	1004	0.379	ug/l	#	72
38) Carbon Tetrachloride	5.666	117	2322	0.994	ug/l	#	74
39) Methylcyclohexane	7.379	83	2589	0.840	ug/l		96
40) Benzene	6.038	78	6963	0.935	ug/l		94

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044868.D
Acq On : 10 Feb 2025 10:25
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 11 01:58:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	621	0.438	ug/l	#	29
42) 1,2-Dichloroethane	6.099	62	2120	0.894	ug/l		84
43) Isopropyl Acetate	6.355	43	3839	0.897	ug/l	#	88
44) Trichloroethene	7.135	130	1487	0.874	ug/l		76
45) 1,2-Dichloropropane	7.440	63	1746	0.943	ug/l	#	86
46) Dibromomethane	7.592	93	1202	0.936	ug/l		95
47) Bromodichloromethane	7.818	83	2176	0.875	ug/l		93
48) Methyl methacrylate	7.720	41	1675	0.830	ug/l		92
49) 1,4-Dioxane	7.696	88	867	20.015	ug/l	#	85
51) 4-Methyl-2-Pentanone	8.574	43	11169	4.290	ug/l		96
52) Toluene	8.714	92	3943	0.889	ug/l		100
53) t-1,3-Dichloropropene	8.994	75	2119	0.842	ug/l		90
54) cis-1,3-Dichloropropene	8.366	75	2300	0.820	ug/l	#	86
55) 1,1,2-Trichloroethane	9.153	97	1558	0.914	ug/l	#	86
56) Ethyl methacrylate	9.128	69	2346	0.852	ug/l	#	84
57) 1,3-Dichloropropane	9.311	76	2699	0.905	ug/l		95
58) 2-Chloroethyl Vinyl ether	8.251	63	5401	3.996	ug/l		97
59) 2-Hexanone	9.439	43	7952	4.240	ug/l		95
60) Dibromochloromethane	9.525	129	1613	0.885	ug/l		96
61) 1,2-Dibromoethane	9.610	107	1534	0.888	ug/l		97
64) Tetrachloroethene	9.275	164	1339	0.971	ug/l		91
65) Chlorobenzene	10.080	112	4234	0.902	ug/l		93
66) 1,1,1,2-Tetrachloroethane	10.165	131	1320	0.874	ug/l	#	64
67) Ethyl Benzene	10.195	91	7388	0.892	ug/l		98
68) m/p-Xylenes	10.299	106	5387	1.763	ug/l		100
69) o-Xylene	10.640	106	2889	0.942	ug/l		97
70) Styrene	10.659	104	3974	0.804	ug/l		97
71) Bromoform	10.799	173	813	0.721	ug/l	#	95
73) Isopropylbenzene	10.964	105	6778	0.928	ug/l		99
74) N-amyl acetate	10.848	43	2596	0.785	ug/l		95
75) 1,1,2,2-Tetrachloroethane	11.207	83	2594	1.033	ug/l		94
76) 1,2,3-Trichloropropane	11.238	75	2567	1.276	ug/l		82
77) Bromobenzene	11.201	156	1537	0.928	ug/l		90
78) n-propylbenzene	11.305	91	7347	0.871	ug/l		98
79) 2-Chlorotoluene	11.366	91	5188	1.001	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	5410	0.913	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.024	75	587	0.751	ug/l	#	79
82) 4-Chlorotoluene	11.457	91	5367	0.936	ug/l		99
83) tert-Butylbenzene	11.713	119	5620	0.937	ug/l		96
84) 1,2,4-Trimethylbenzene	11.750	105	4876	0.833	ug/l		88
85) sec-Butylbenzene	11.890	105	6700	0.902	ug/l		99
86) p-Isopropyltoluene	12.006	119	5161	0.864	ug/l		90
87) 1,3-Dichlorobenzene	11.969	146	2933	0.963	ug/l		97
88) 1,4-Dichlorobenzene	11.969	146	2933	0.952	ug/l		99
89) n-Butylbenzene	12.335	91	3880	0.734	ug/l		93
90) Hexachloroethane	12.536	117	968	0.866	ug/l		98
91) 1,2-Dichlorobenzene	12.341	146	2744	0.917	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	12.945	75	367	0.801	ug/l		95
93) 1,2,4-Trichlorobenzene	13.591	180	1560	0.861	ug/l		86
94) Hexachlorobutadiene	13.725	225	695	0.966	ug/l		99
95) Naphthalene	13.780	128	5125	0.783	ug/l		99
96) 1,2,3-Trichlorobenzene	13.969	180	1557	0.853	ug/l		93

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044868.D
Acq On : 10 Feb 2025 10:25
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 11 01:58:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

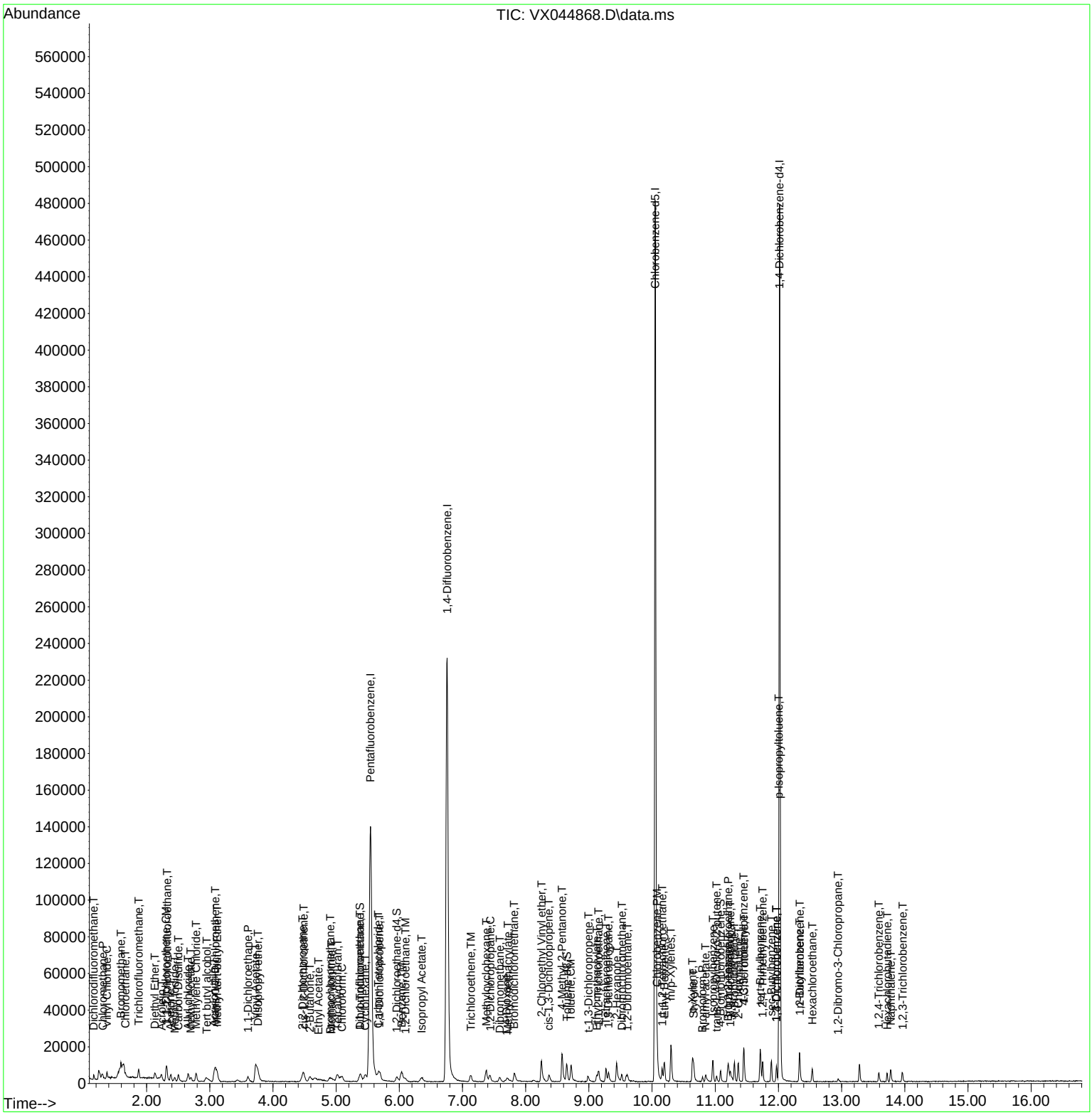
(#) = qualifier out of range (m) = manual integration (+) = signals summed

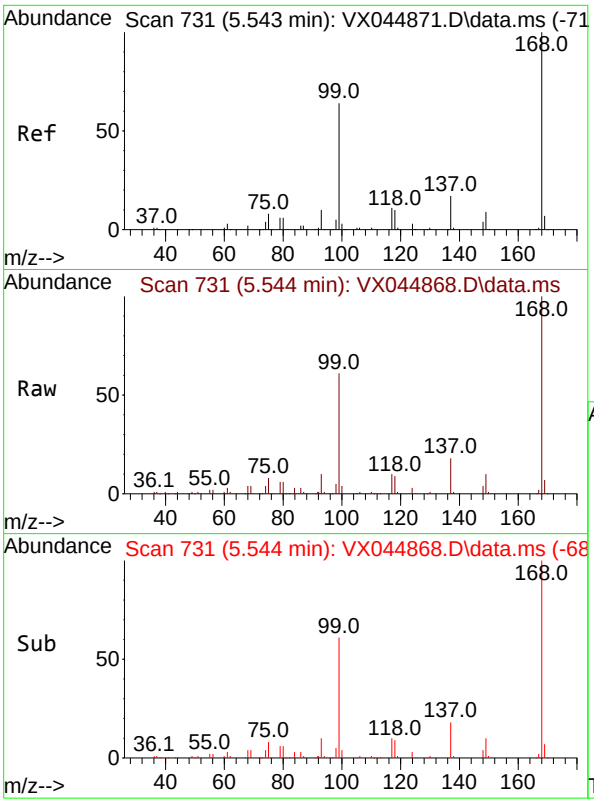
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044868.D
Acq On : 10 Feb 2025 10:25
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 11 01:58:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



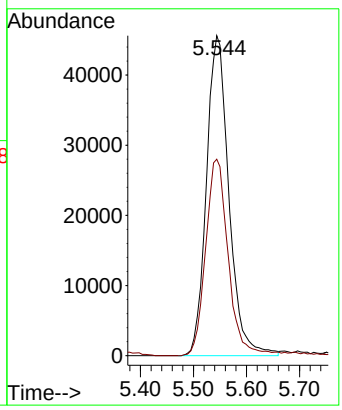


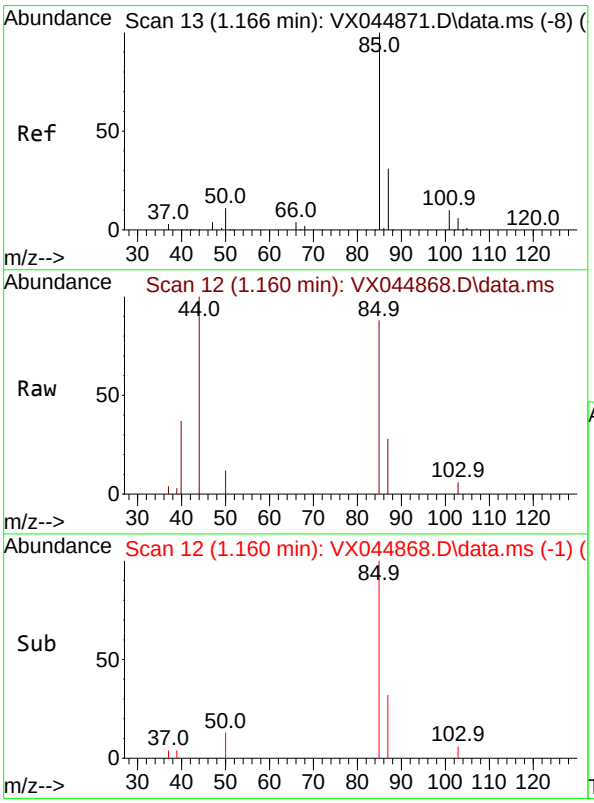
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 134134

Ion	Ratio	Lower	Upper
168	100		
99	61.4	51.2	76.8

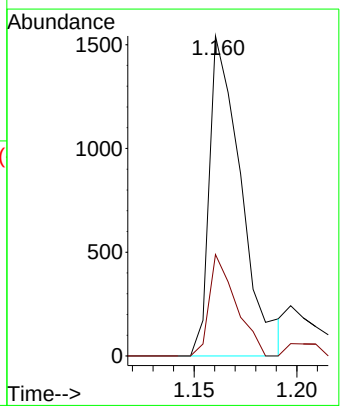


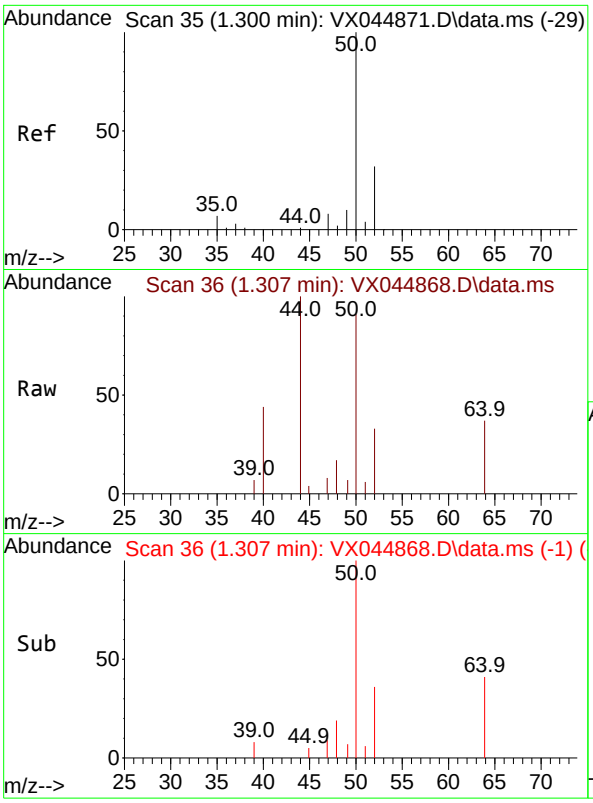


#2
Dichlorodifluoromethane
Concen: 0.880 ug/l
RT: 1.160 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 85 Resp: 1655

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3



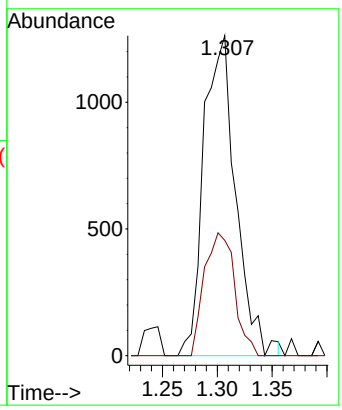


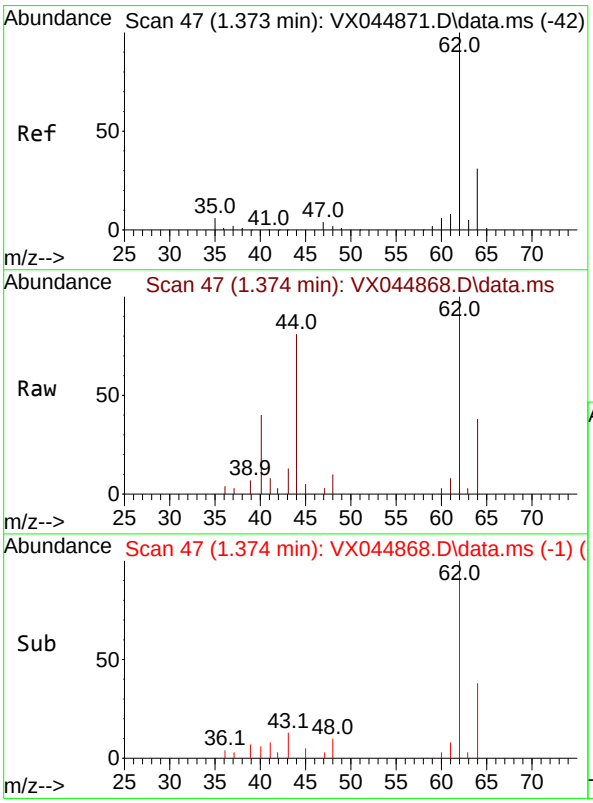
#3
Chloromethane
Concen: 1.123 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 2571

Ion	Ratio	Lower	Upper
50	100		
52	36.0	25.9	38.9

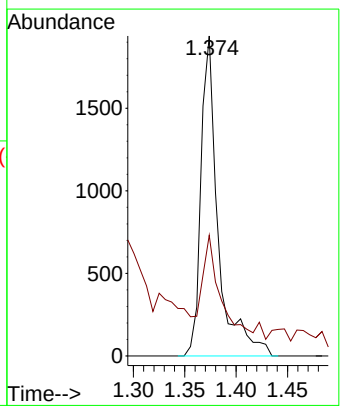


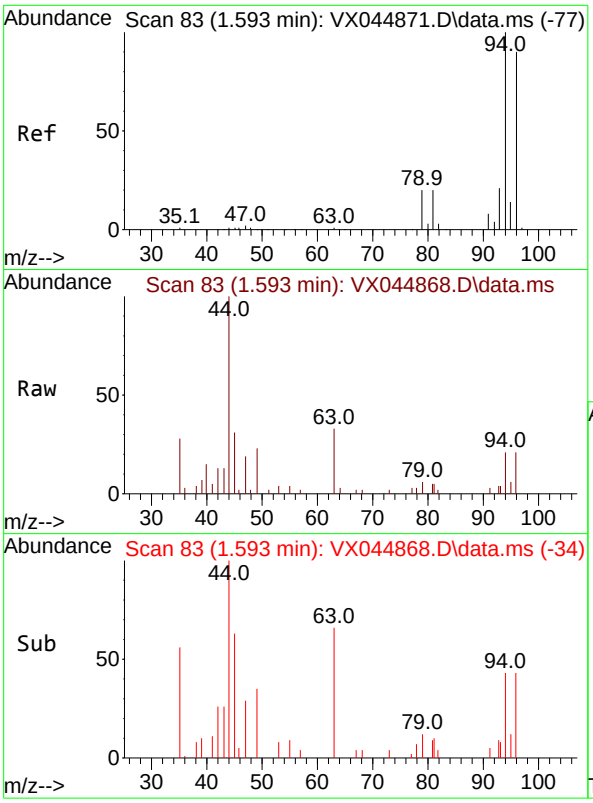


#4
Vinyl Chloride
Concen: 1.015 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 2252

Ion	Ratio	Lower	Upper
62	100		
64	29.4	25.4	38.0



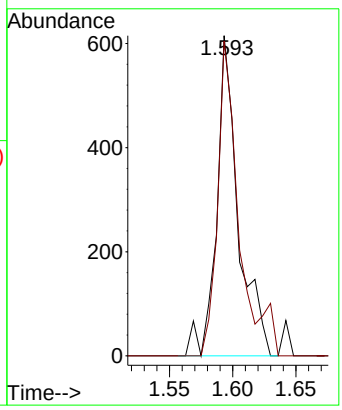


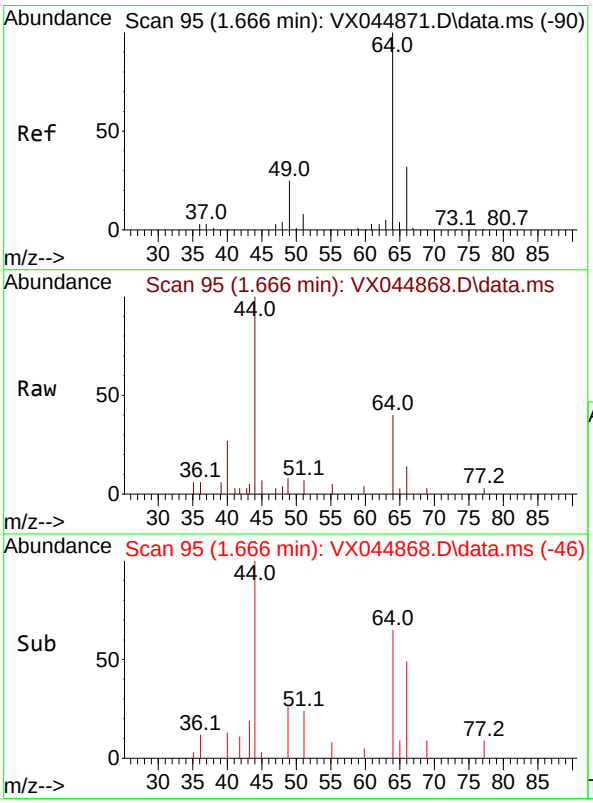
#5
Bromomethane
Concen: 1.095 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 727

Ion	Ratio	Lower	Upper
94	100		
96	98.4	71.6	107.4

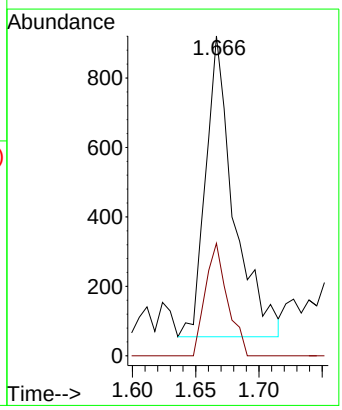


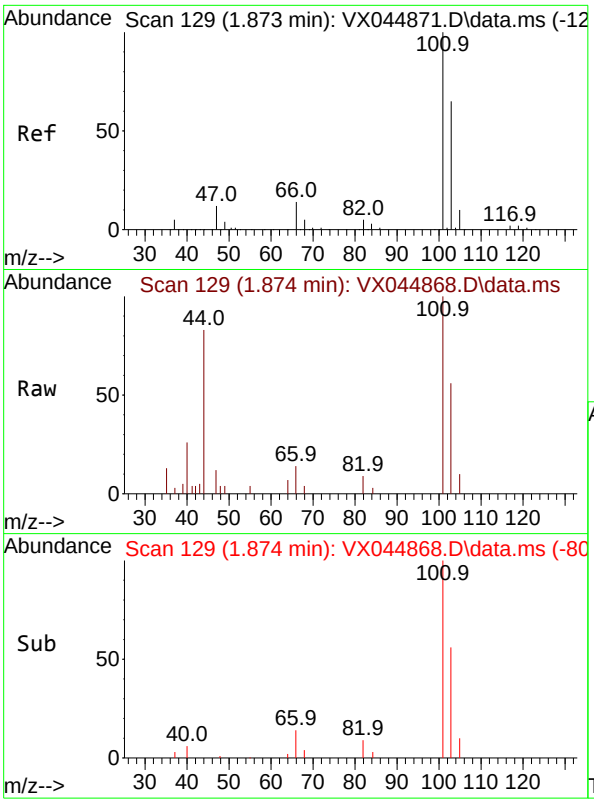


#6
Chloroethane
Concen: 2.609 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 64 Resp: 1341

Ion	Ratio	Lower	Upper
64	100		
66	37.4	25.9	38.9



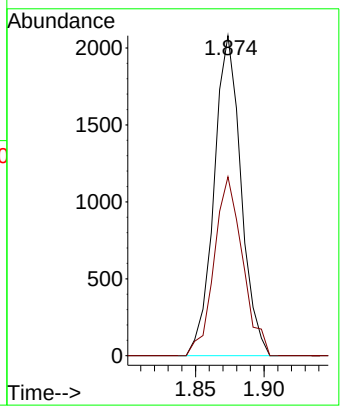


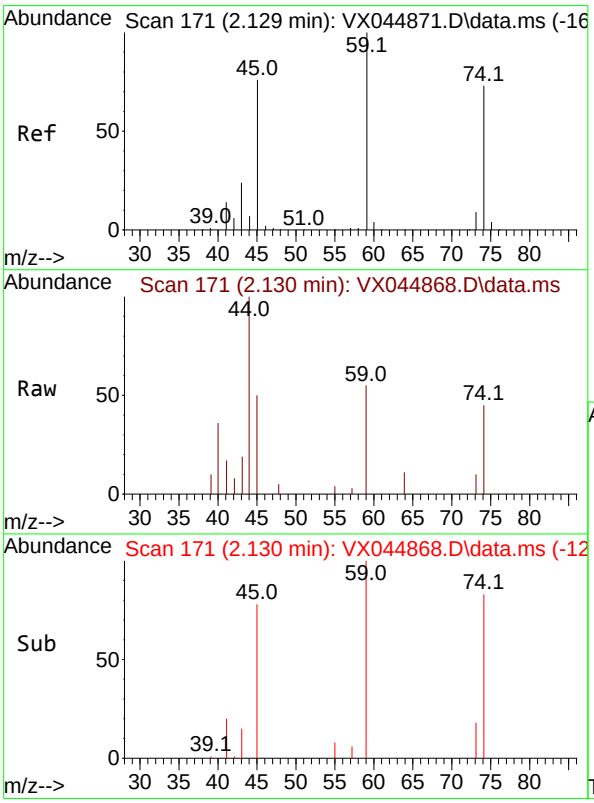
#7
Trichlorofluoromethane
Concen: 1.016 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 2849

Ion	Ratio	Lower	Upper
101	100		
103	55.9	52.4	78.6

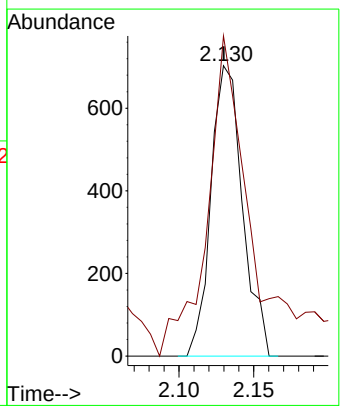


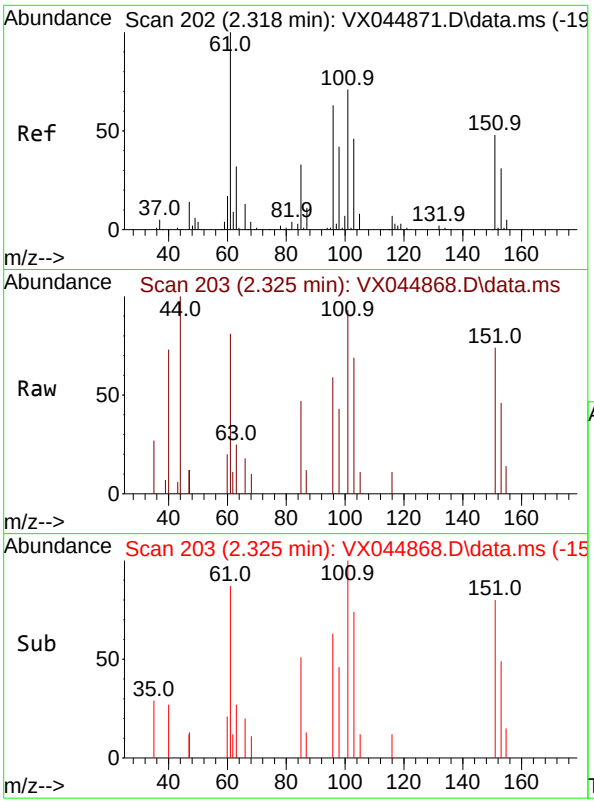


#8
Diethyl Ether
Concen: 1.014 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 74 Resp: 1032

Ion	Ratio	Lower	Upper
74	100		
45	166.1	51.1	153.4#



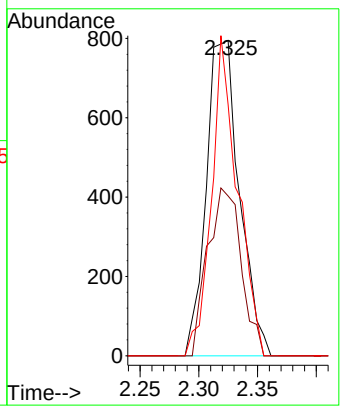


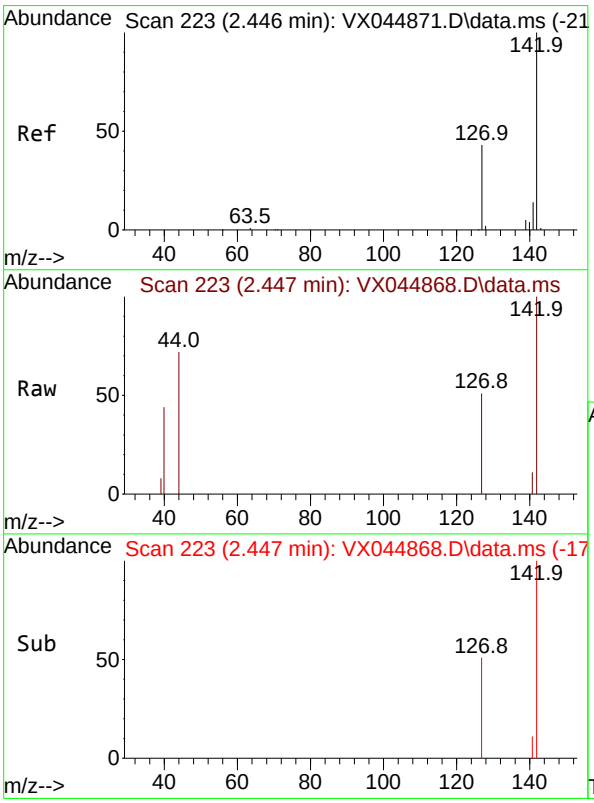
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.923 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1564

Ion	Ratio	Lower	Upper
101	100		
85	53.6	35.7	53.5#
151	79.3	56.0	84.0

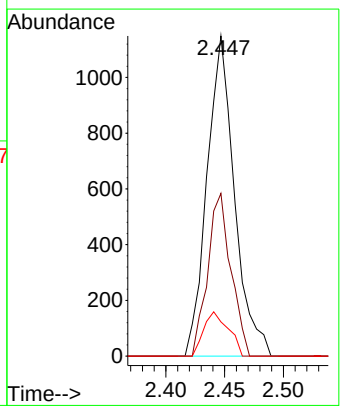


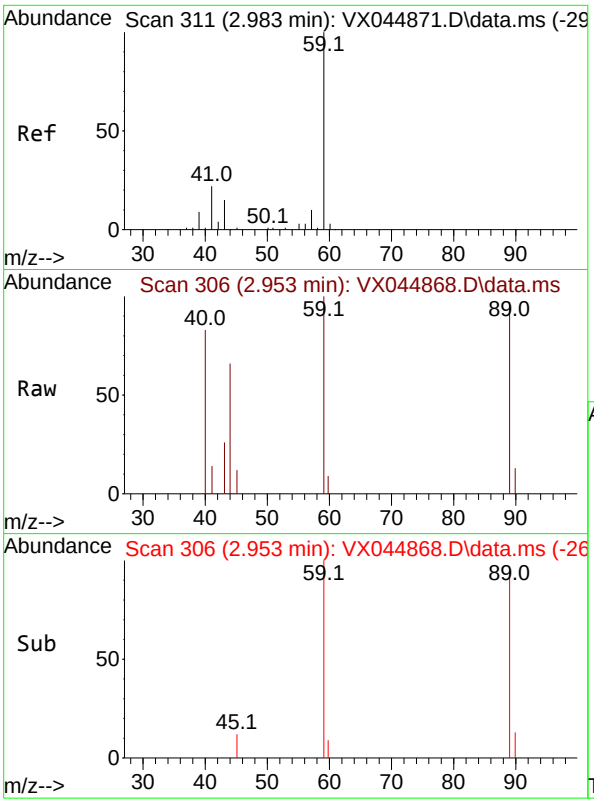


#10
Methyl Iodide
Concen: 0.851 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:142 Resp: 1869

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.3	51.5
141	12.4	11.4	17.2



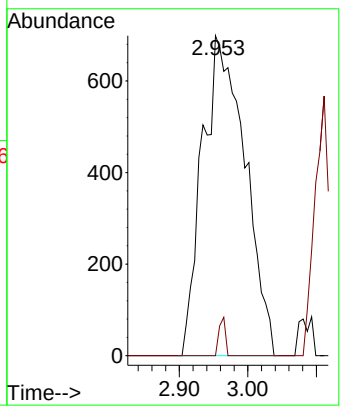


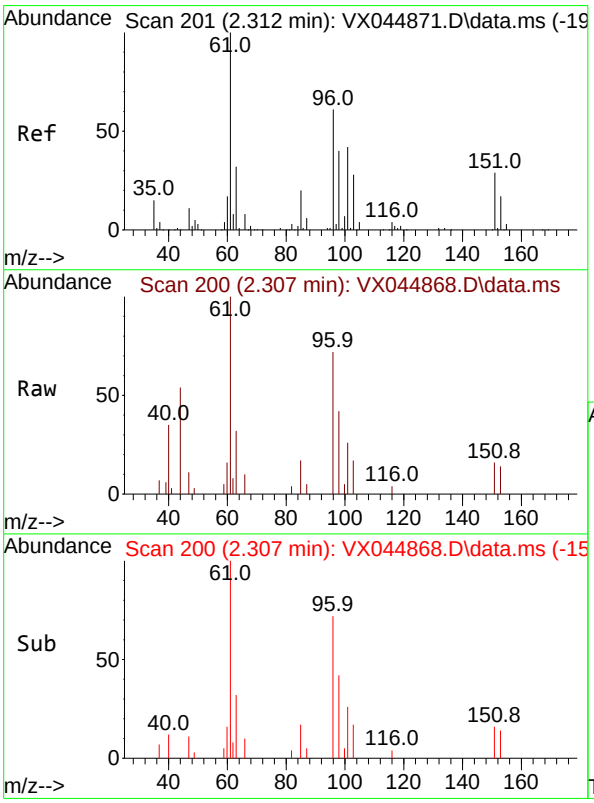
#11
Tert butyl alcohol
Concen: 8.291 ug/l
RT: 2.953 min Scan# 3
Delta R.T. -0.030 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 3020

Ion	Ratio	Lower	Upper
59	100		
57	1.8	8.1	12.1#

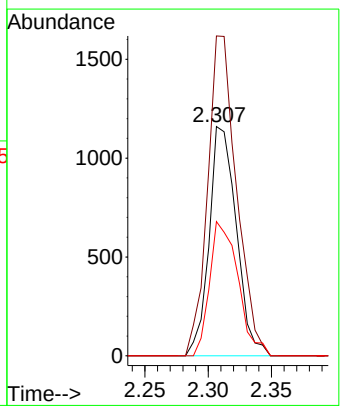


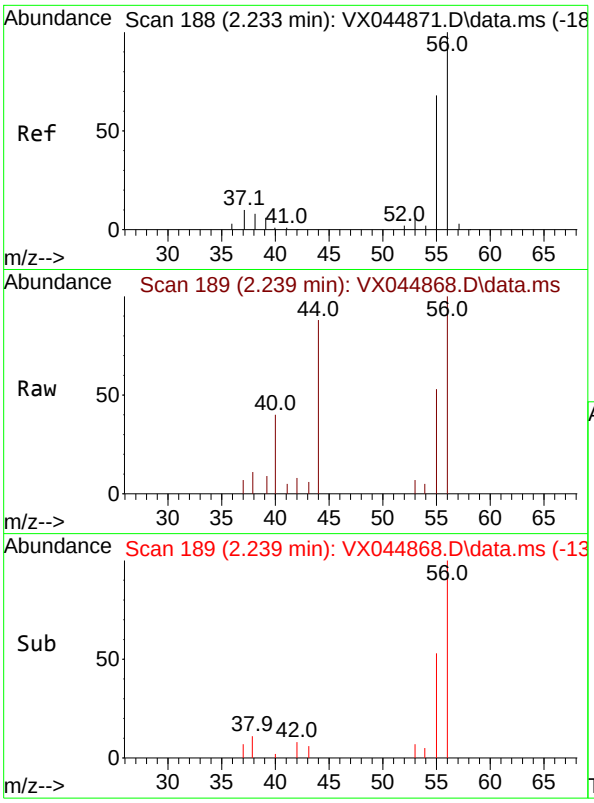


#12
1,1-Dichloroethene
Concen: 1.005 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 96 Resp: 1737

Ion	Ratio	Lower	Upper
96	100		
61	139.5	130.2	195.4
98	58.5	52.2	78.4



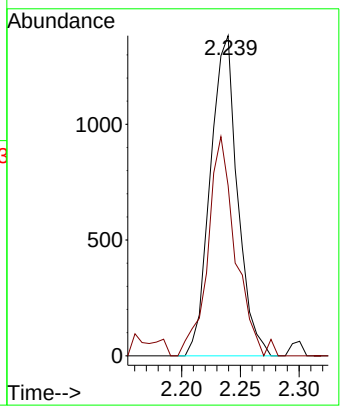


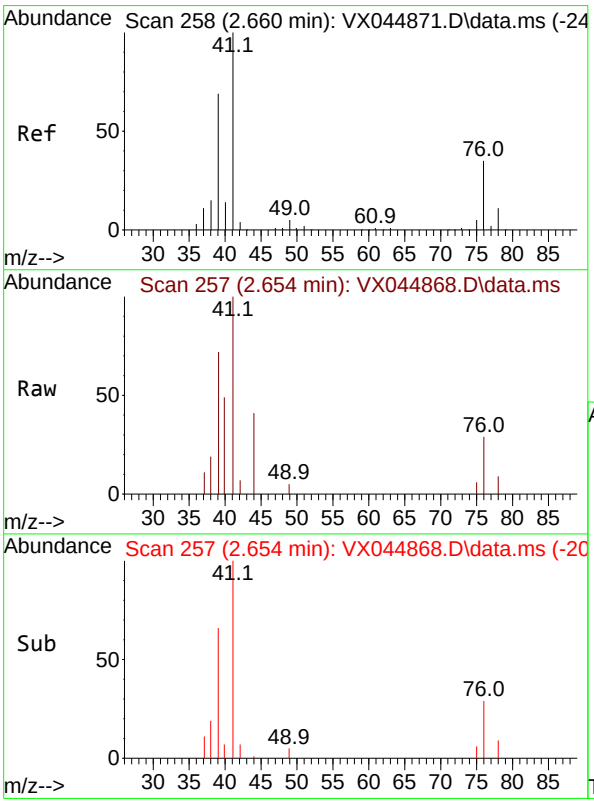
#13
Acrolein
Concen: 5.928 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2228

Ion	Ratio	Lower	Upper
56	100		
55	69.5	55.7	83.5

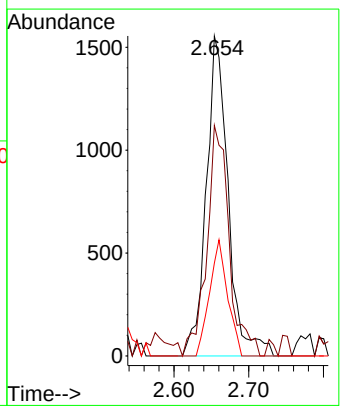


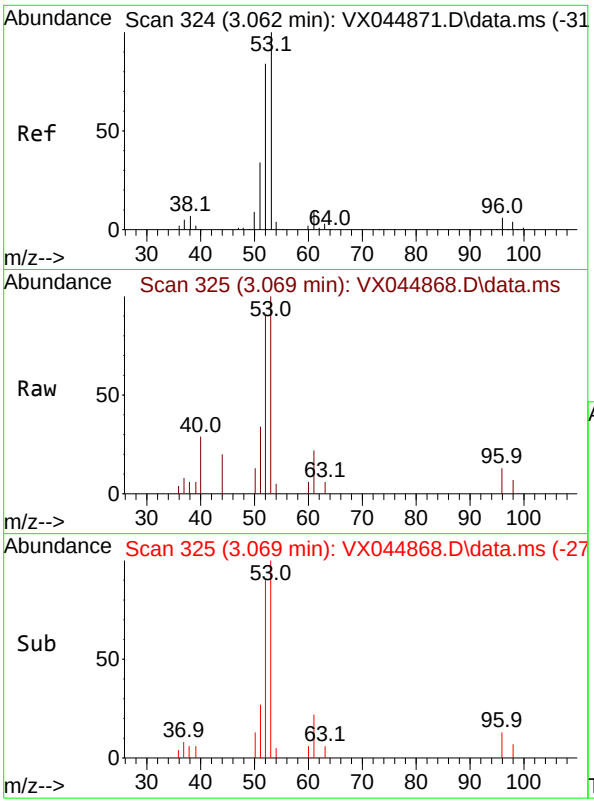


#14
Allyl chloride
Concen: 1.013 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 3164

Ion	Ratio	Lower	Upper
41	100		
39	73.5	51.4	77.2
76	29.9	27.0	40.4



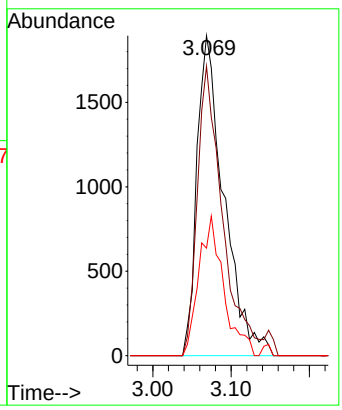


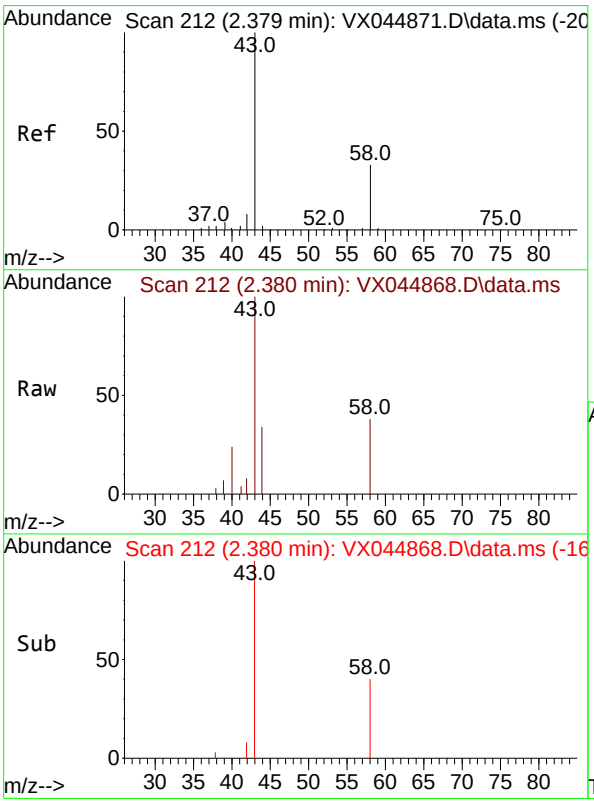
#15
Acrylonitrile
Concen: 4.655 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 4527

Ion	Ratio	Lower	Upper
53	100		
52	84.7	65.0	97.6
51	40.0	28.0	42.0

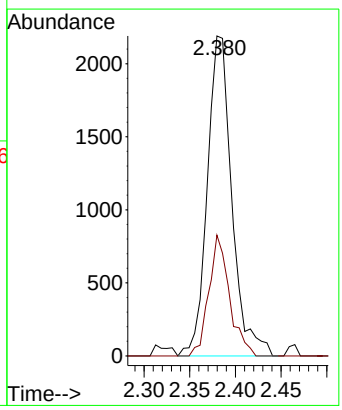


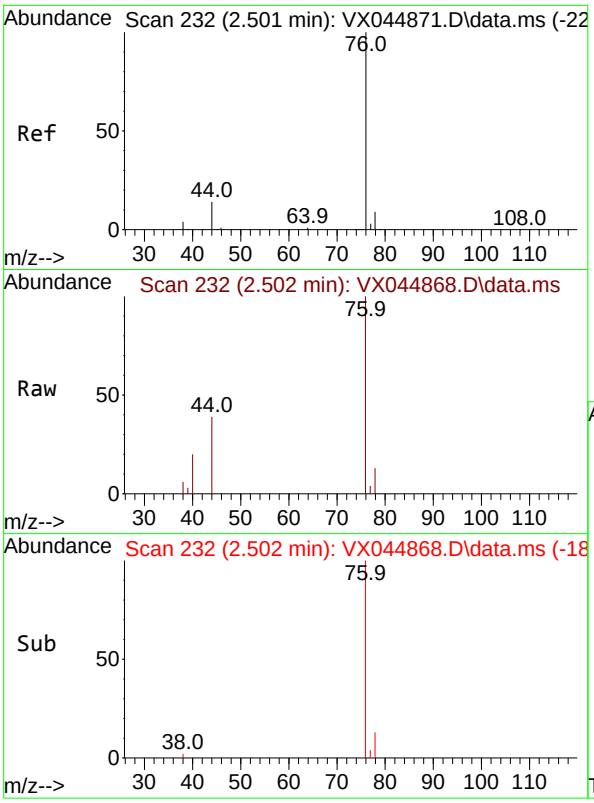


#16
Acetone
Concen: 5.188 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 4095

Ion	Ratio	Lower	Upper
43	100		
58	37.8	26.5	39.7



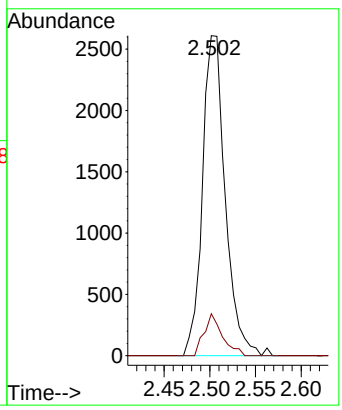


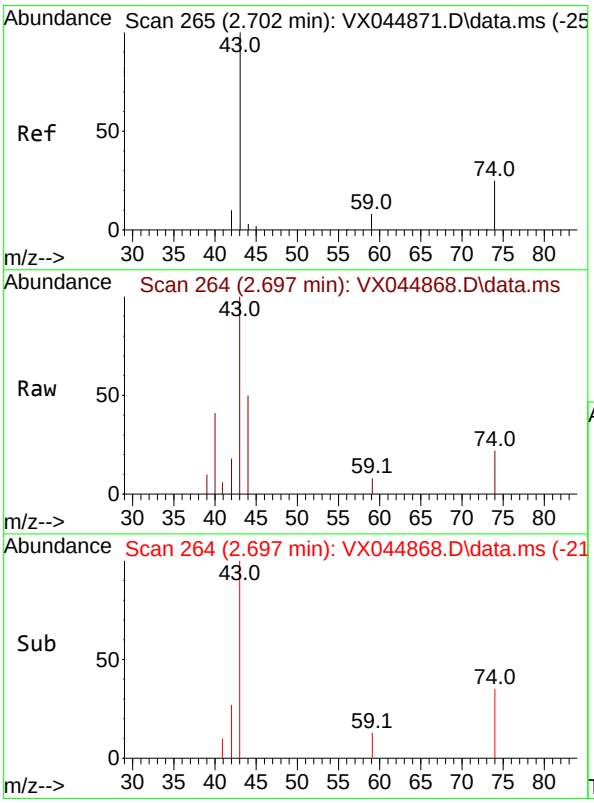
#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 4531

Ion	Ratio	Lower	Upper
76	100		
78	13.1	7.0	10.4#

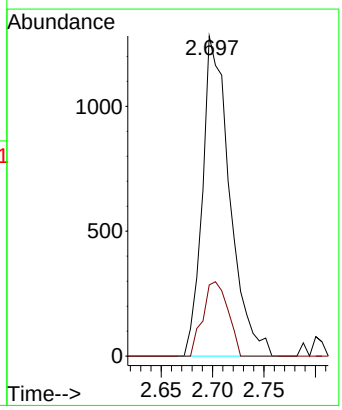


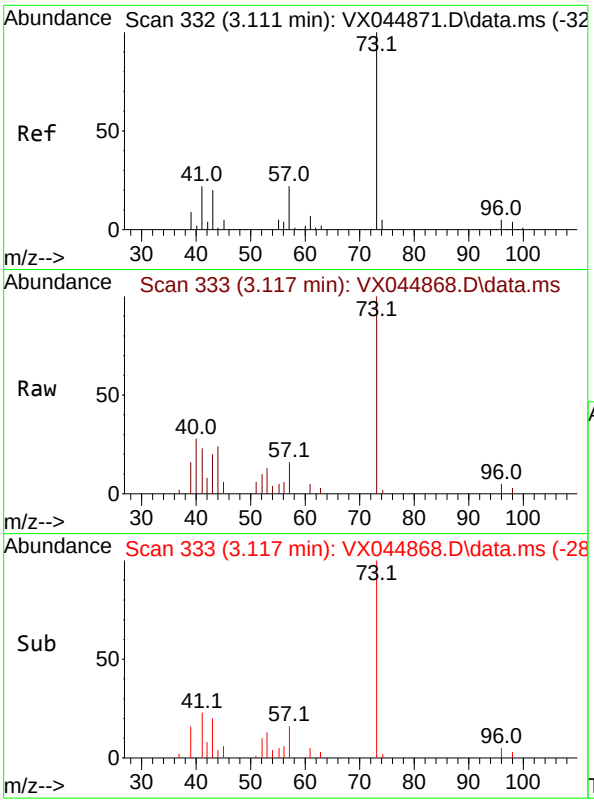


#18
Methyl Acetate
Concen: 0.950 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2367

Ion	Ratio	Lower	Upper
43	100		
74	21.3	18.9	28.3



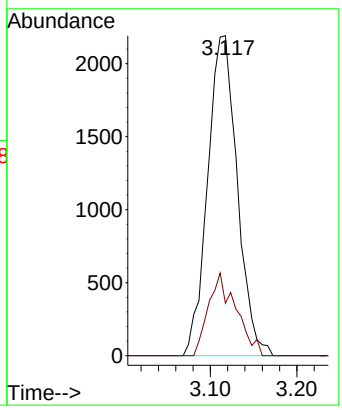


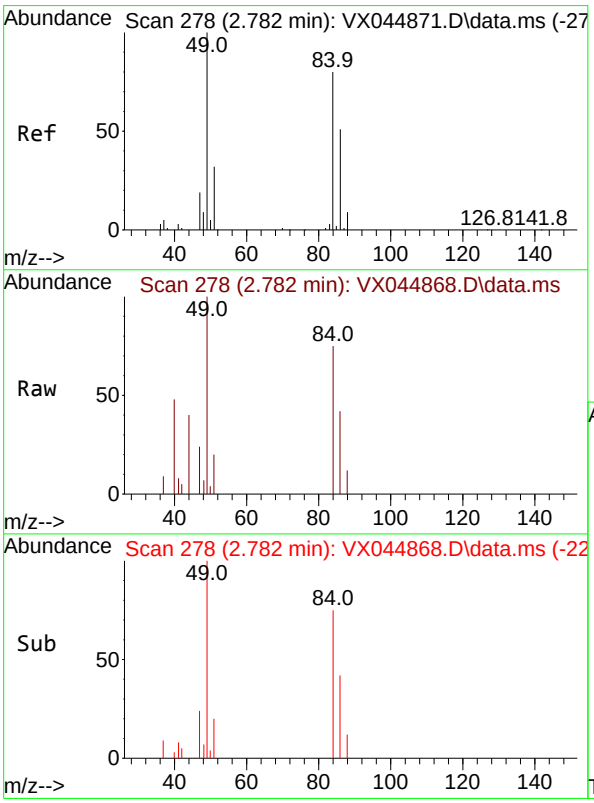
#19
Methyl tert-butyl Ether
Concen: 0.946 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 5206

Ion	Ratio	Lower	Upper
73	100		
57	16.4	17.9	26.9#

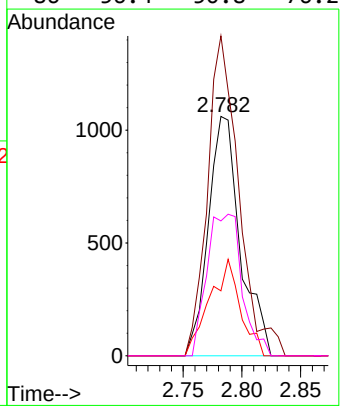


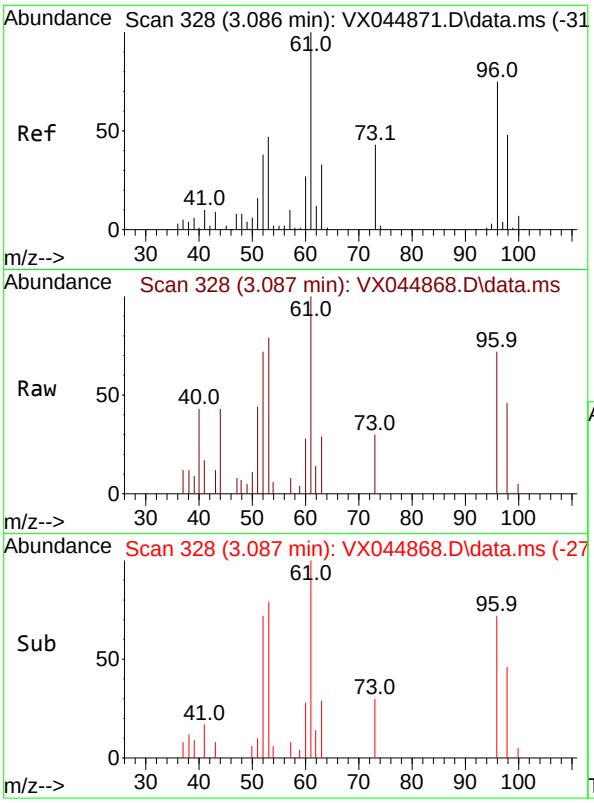


#20
Methylene Chloride
Concen: 1.037 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 84 Resp: 2005

Ion	Ratio	Lower	Upper
84	100		
49	133.6	100.1	150.1
51	27.1	31.7	47.5#
86	56.4	50.8	76.2



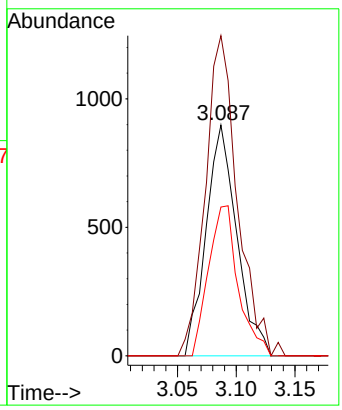


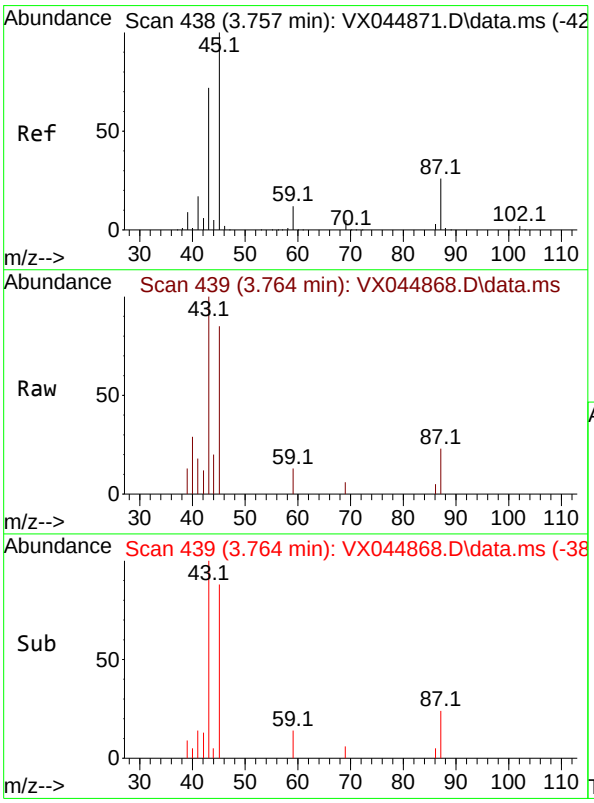
#21
trans-1,2-Dichloroethene
Concen: 0.959 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1631

Ion	Ratio	Lower	Upper
96	100		
61	138.8	106.0	159.0
98	64.5	50.6	76.0

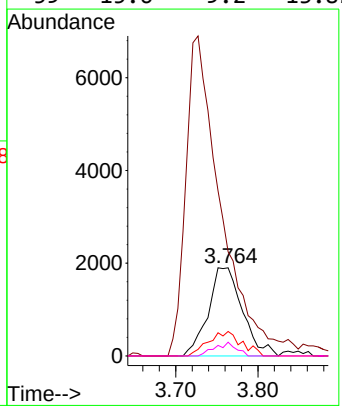


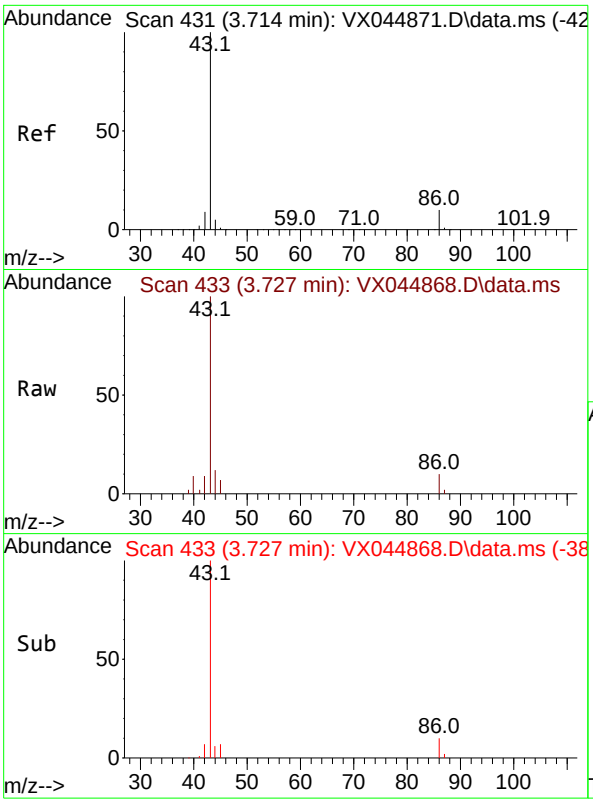


#22
Diisopropyl ether
Concen: 0.930 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 45 Resp: 5496

Ion	Ratio	Lower	Upper
45	100		
43	101.2	58.0	87.0#
87	27.8	20.7	31.1
59	15.6	9.2	13.8#



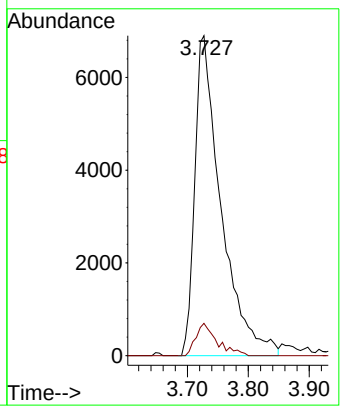


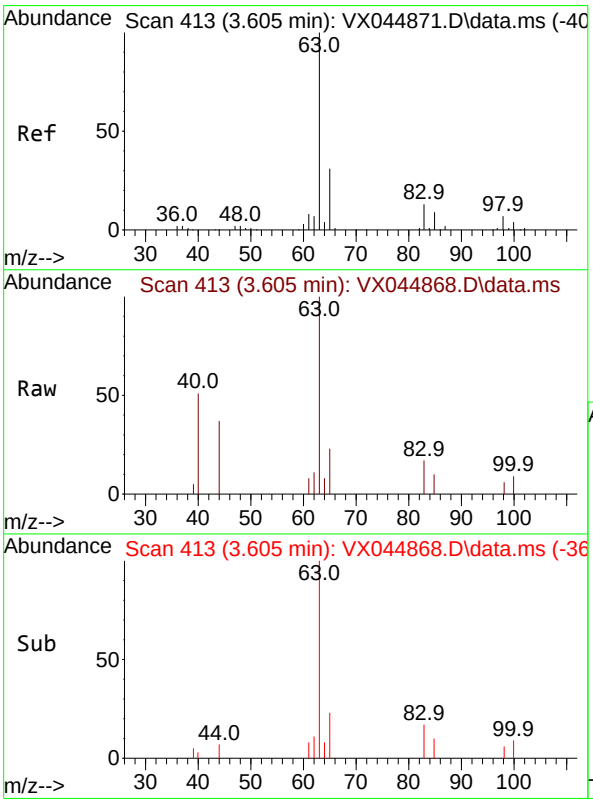
#23
Vinyl Acetate
Concen: 4.288 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 20663

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.3	12.5

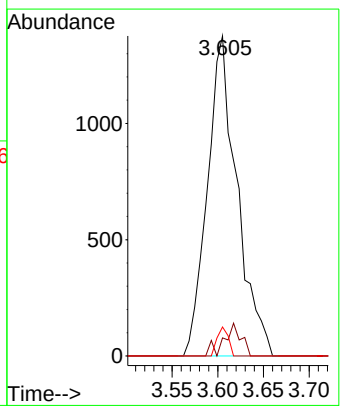


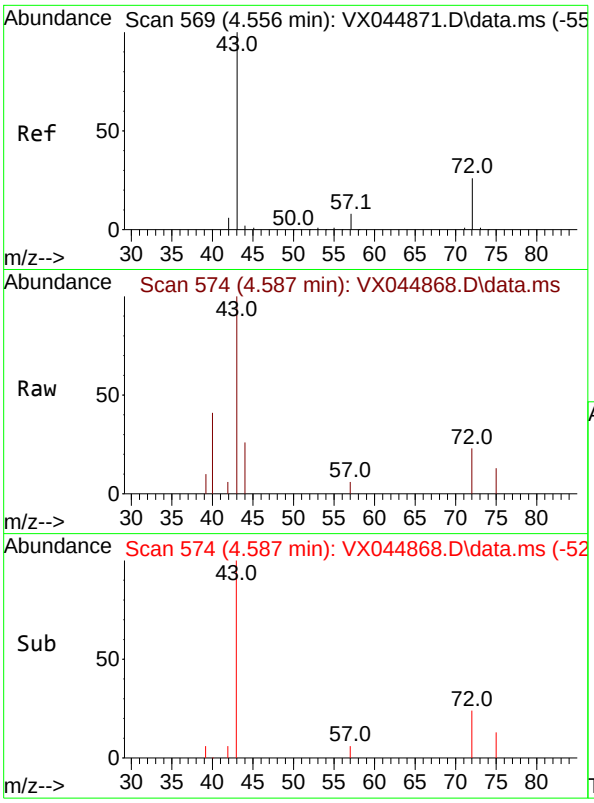


#24
1,1-Dichloroethane
Concen: 0.937 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 3099

Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.3	9.9
100	9.1	2.1	6.5#



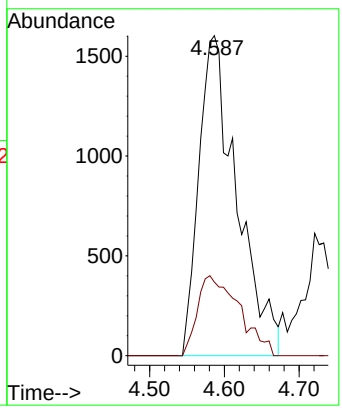


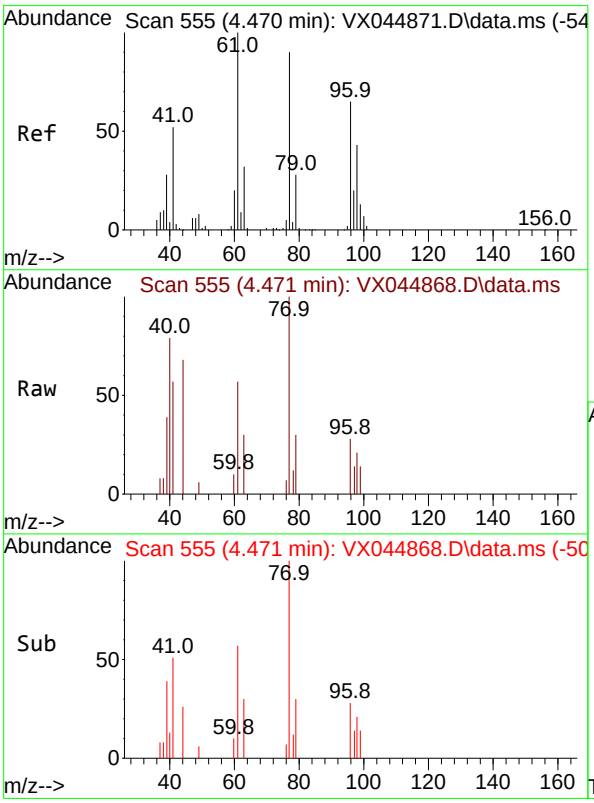
#25
2-Butanone
Concen: 4.416 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 5660

Ion	Ratio	Lower	Upper
43	100		
72	23.0	21.2	31.8

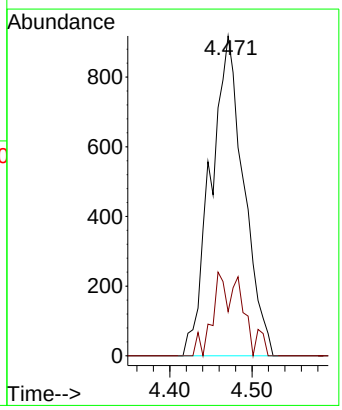


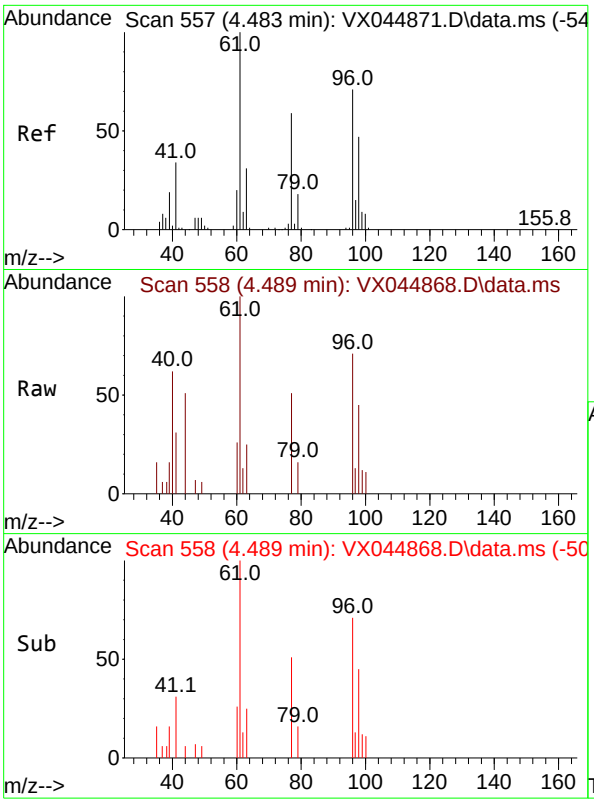


#26
2,2-Dichloropropane
Concen: 0.978 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 77 Resp: 2566

Ion	Ratio	Lower	Upper
77	100		
97	11.8	11.8	35.3



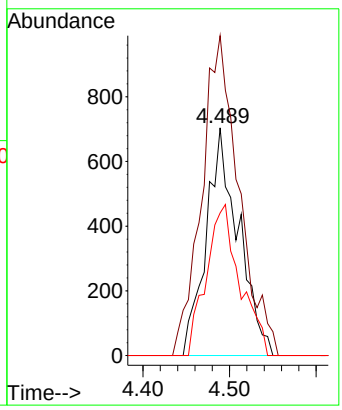


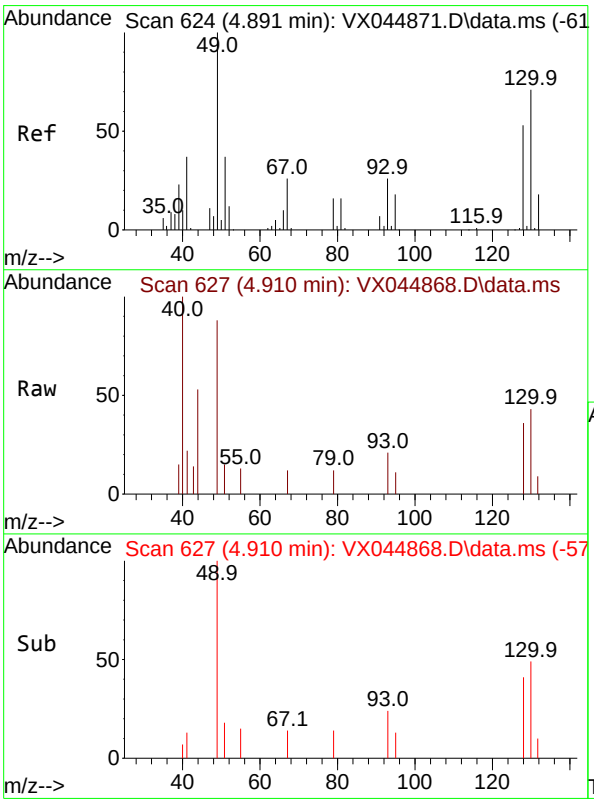
#27
cis-1,2-Dichloroethene
Concen: 0.893 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1825

Ion	Ratio	Lower	Upper
96	100		
61	161.6	0.0	294.0
98	68.9	0.0	131.2

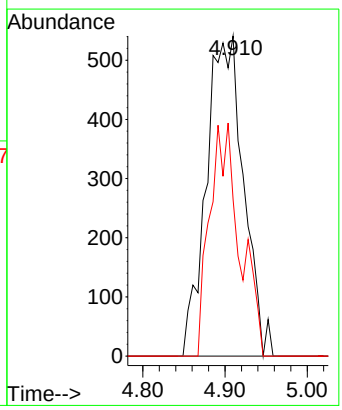


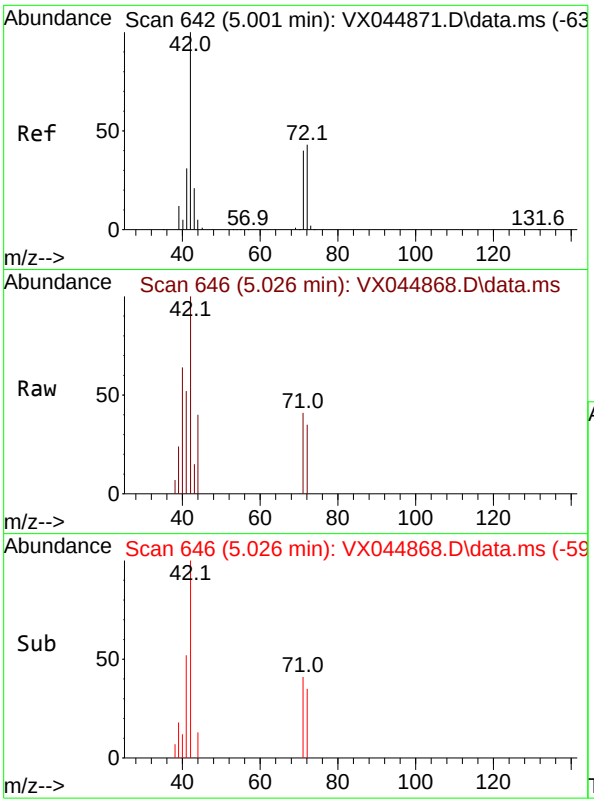


#28
Bromochloromethane
Concen: 1.071 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 49 Resp: 1702

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	49.6	56.7	85.1#



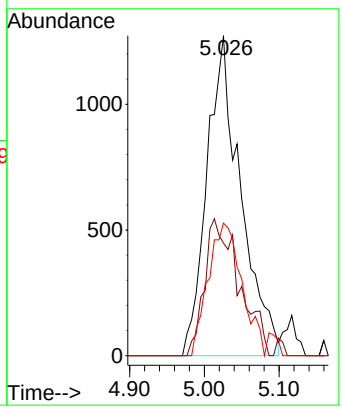


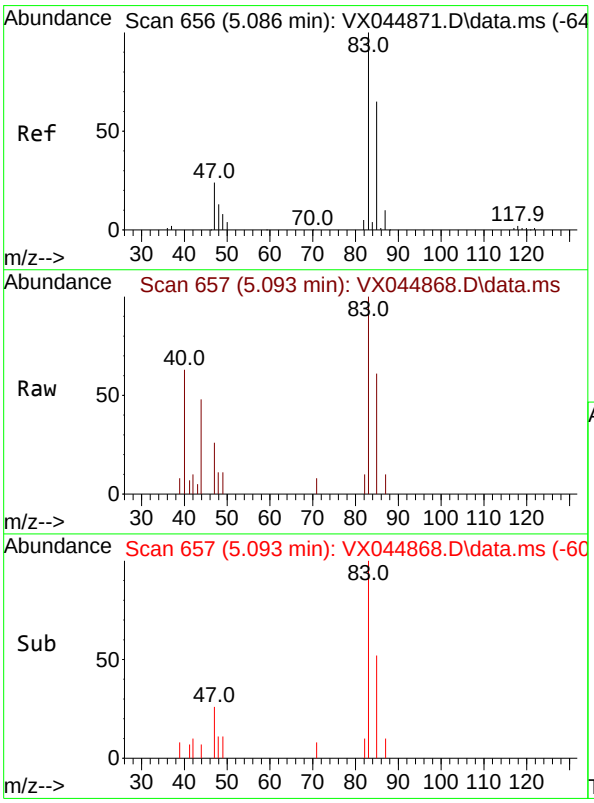
#29
Tetrahydrofuran
Concen: 4.716 ug/l
RT: 5.026 min Scan# 64
Delta R.T. 0.025 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 4014

Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.0	52.4
71	41.3	32.6	48.8

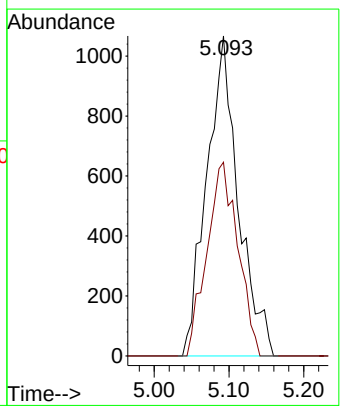


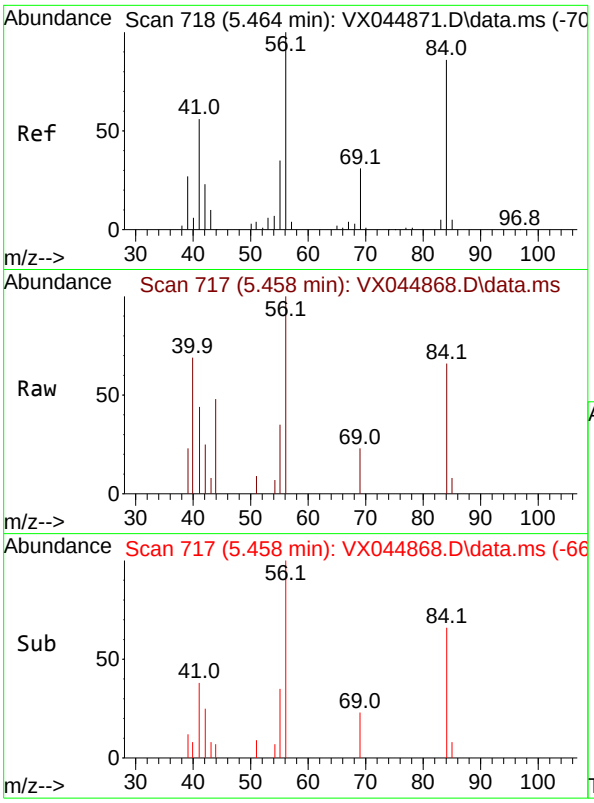


#30
Chloroform
Concen: 0.976 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 3132

Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.1	78.1



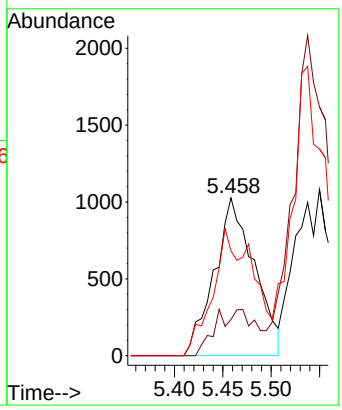


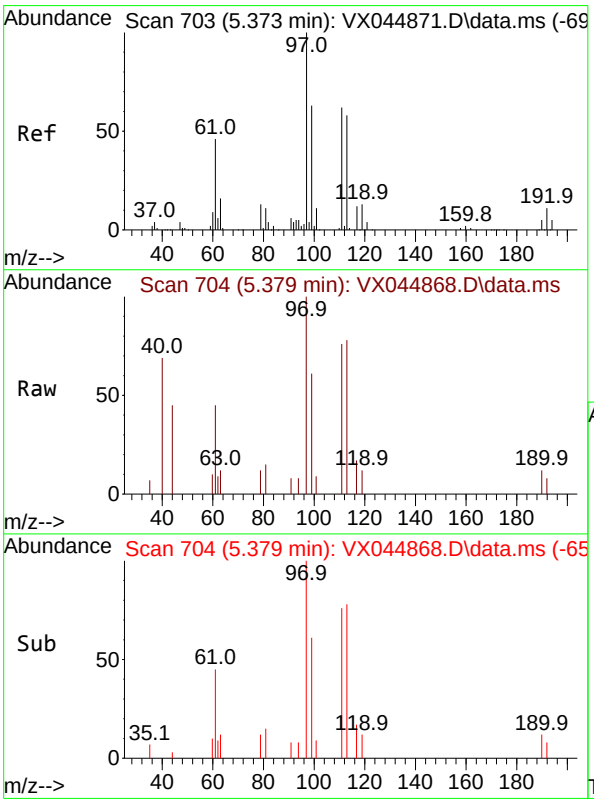
#31
Cyclohexane
Concen: 0.971 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2960

Ion	Ratio	Lower	Upper
56	100		
69	23.0	24.4	36.6#
84	66.4	69.0	103.6#

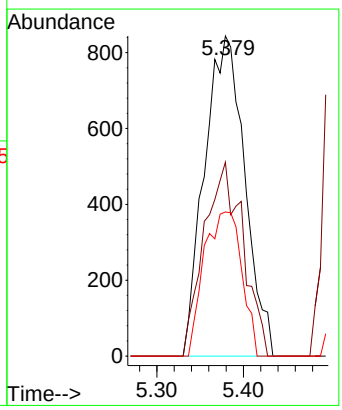


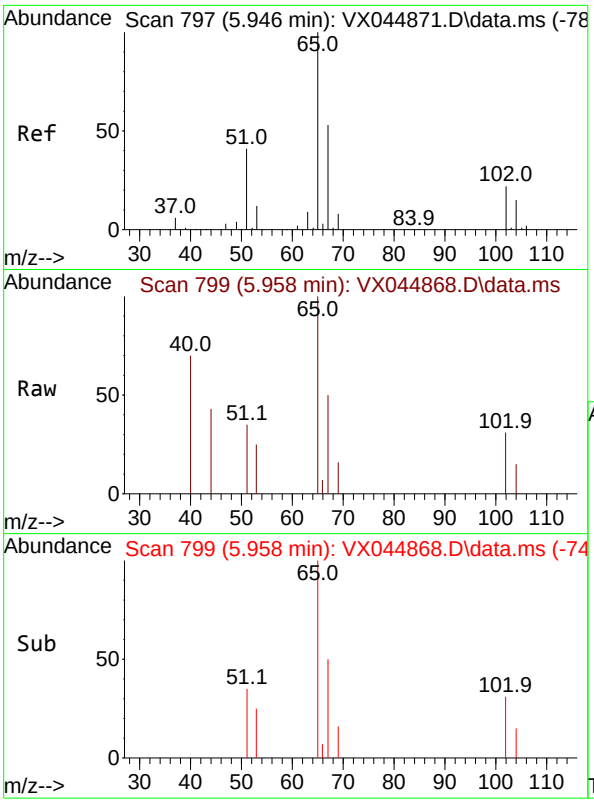


#32
1,1,1-Trichloroethane
Concen: 1.000 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 97 Resp: 2721

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6#
61	42.2	36.6	55.0



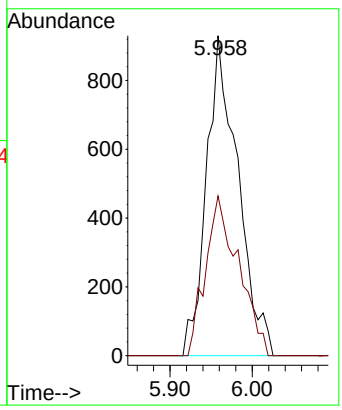


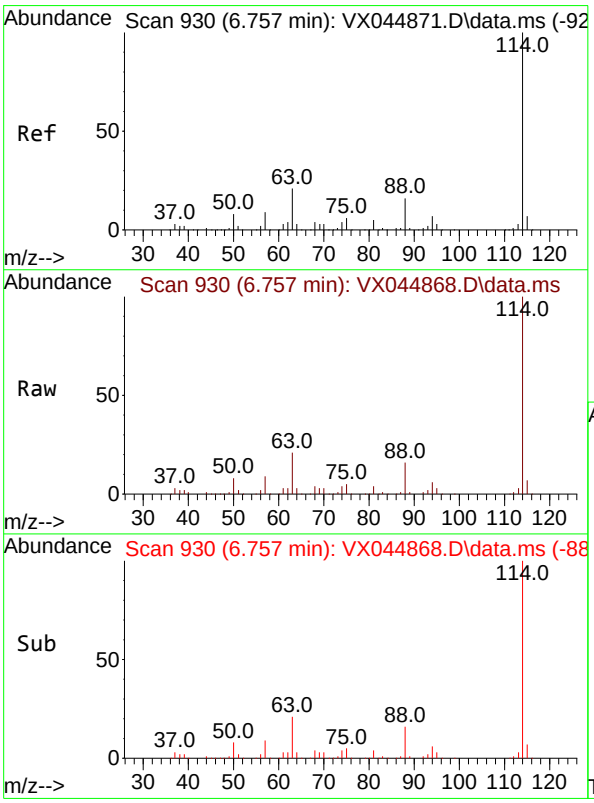
#33
1,2-Dichloroethane-d4
Concen: 1.259 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 2473

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	108.2

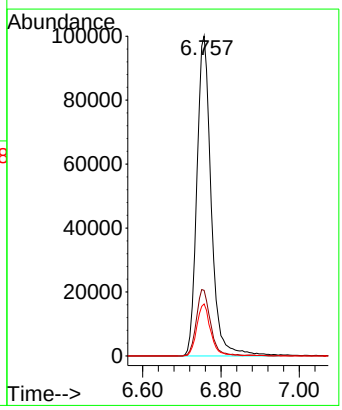


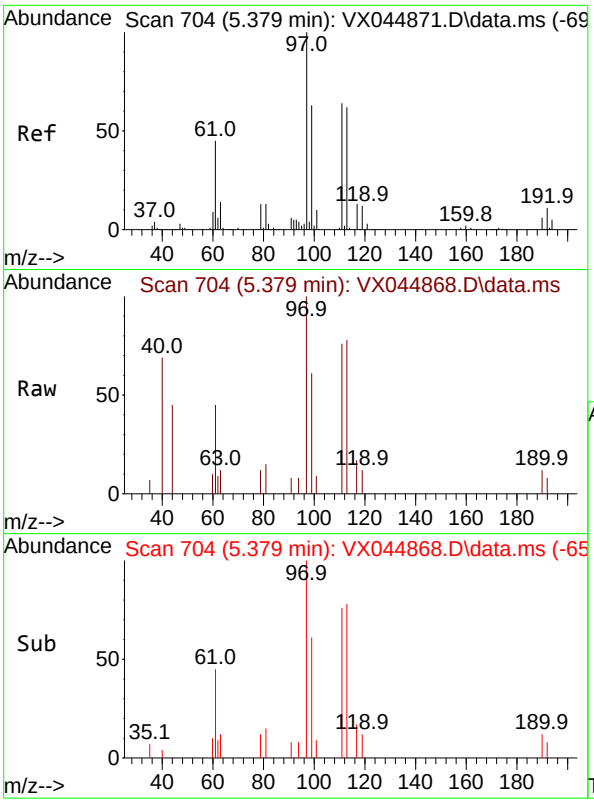


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:114 Resp: 254149

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.4
88	16.3	0.0	31.4



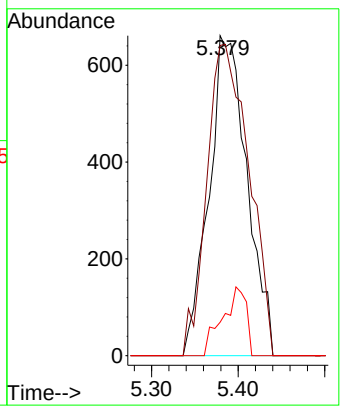


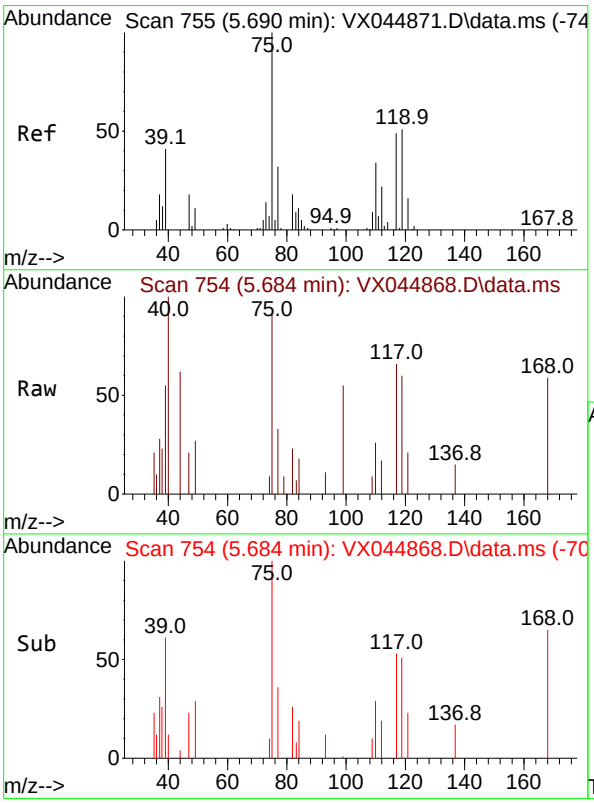
#35
Dibromofluoromethane
Concen: 1.218 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 2013

Ion	Ratio	Lower	Upper
113	100		
111	107.9	83.5	125.3
192	13.4	14.4	21.6#

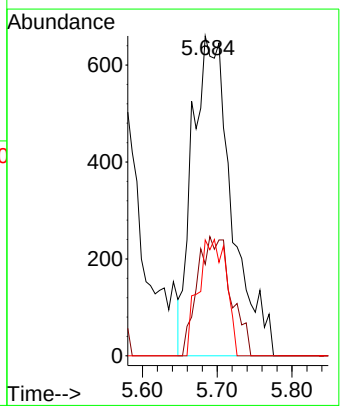


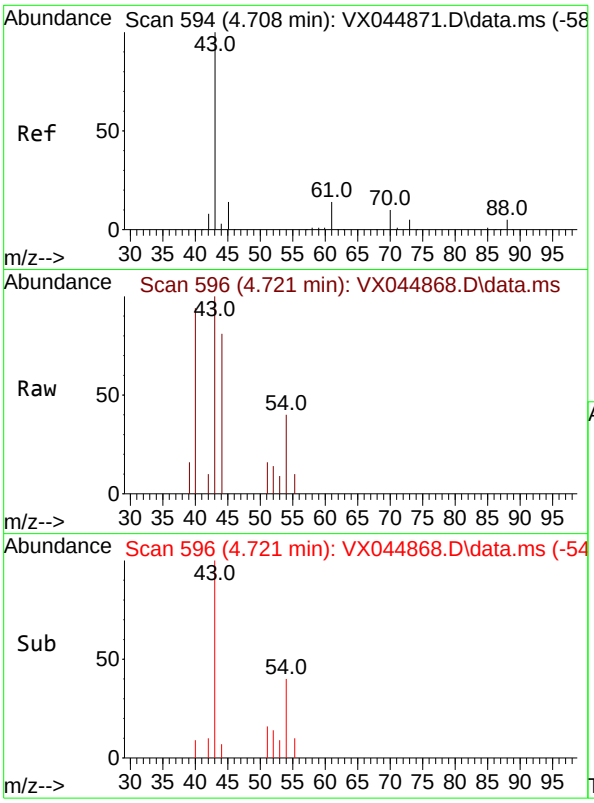


#36
1,1-Dichloropropene
Concen: 1.006 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 2399

Ion	Ratio	Lower	Upper
75	100		
110	32.1	17.2	51.6
77	26.3	24.6	37.0



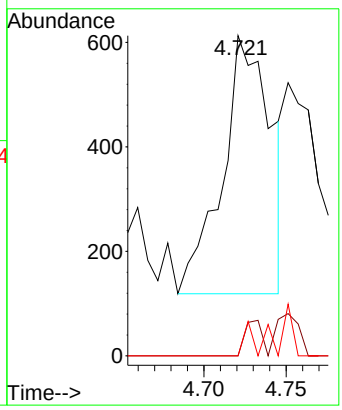


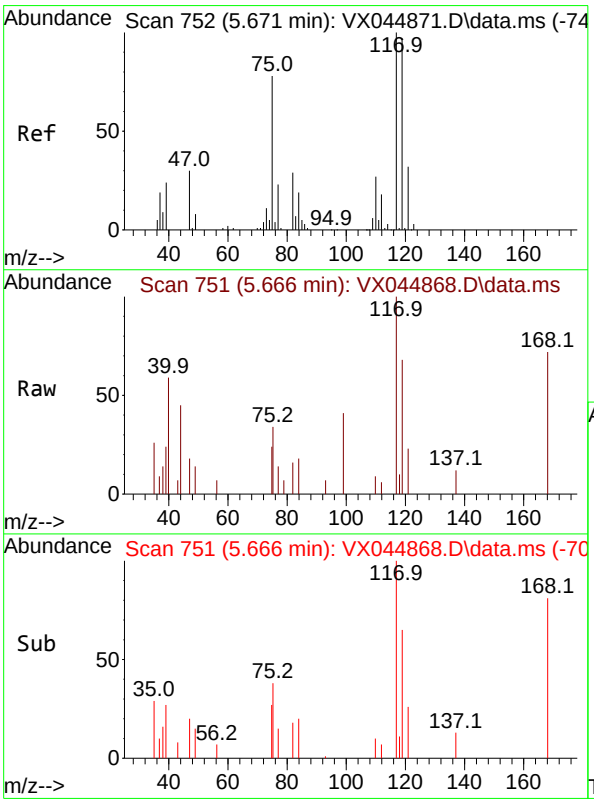
#37
Ethyl Acetate
Concen: 0.379 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1004

Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	2.4	8.2	12.2#

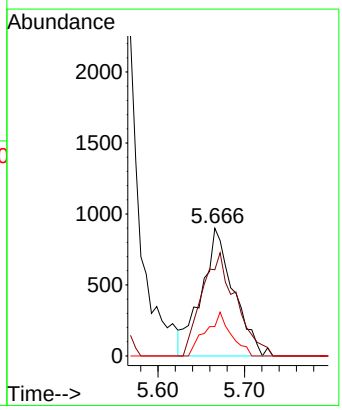


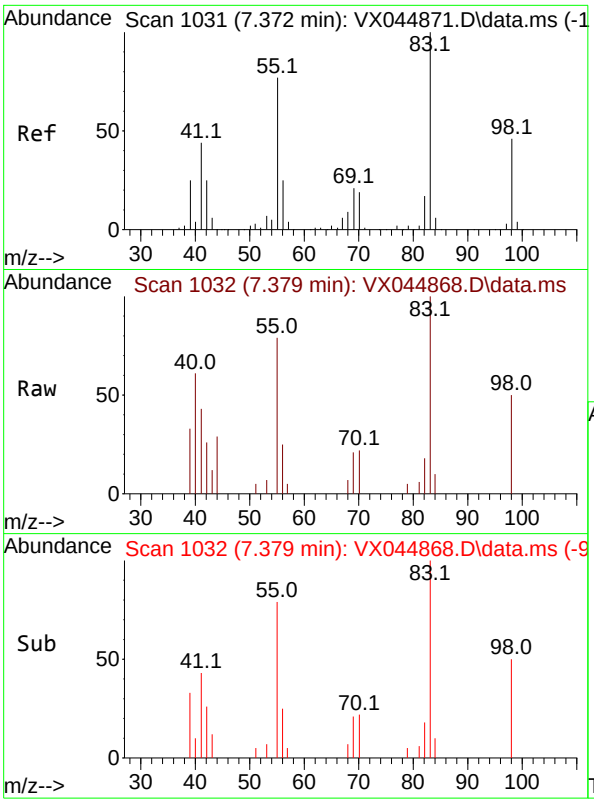


#38
Carbon Tetrachloride
Concen: 0.994 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 2322

Ion	Ratio	Lower	Upper
117	100		
119	67.5	77.5	116.3#
121	23.0	25.6	38.4#



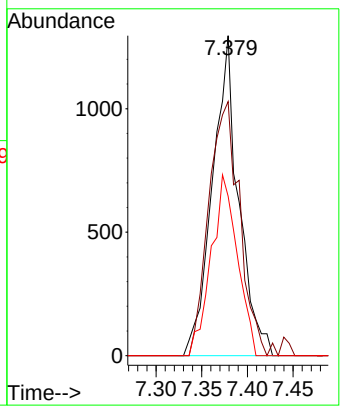


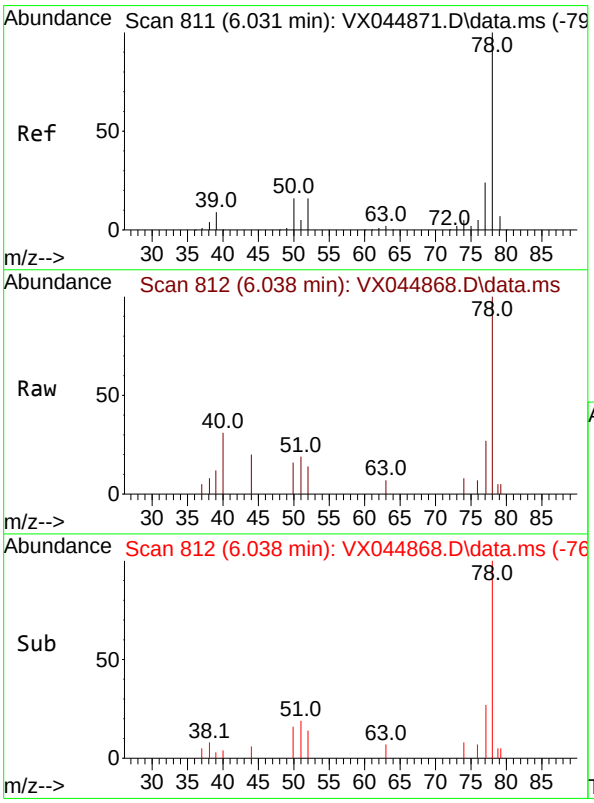
#39
Methylcyclohexane
Concen: 0.840 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2589

Ion	Ratio	Lower	Upper
83	100		
55	79.4	61.3	91.9
98	49.8	37.0	55.6

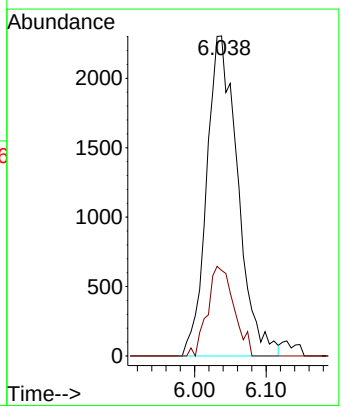


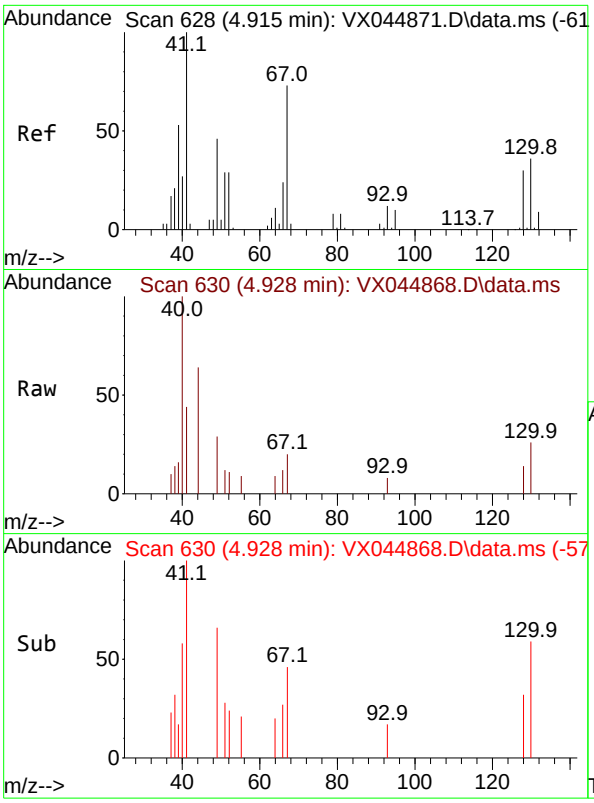


#40
Benzene
Concen: 0.935 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 78 Resp: 6963

Ion	Ratio	Lower	Upper
78	100		
77	26.8	19.0	28.6



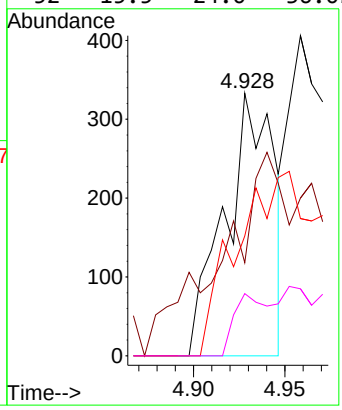


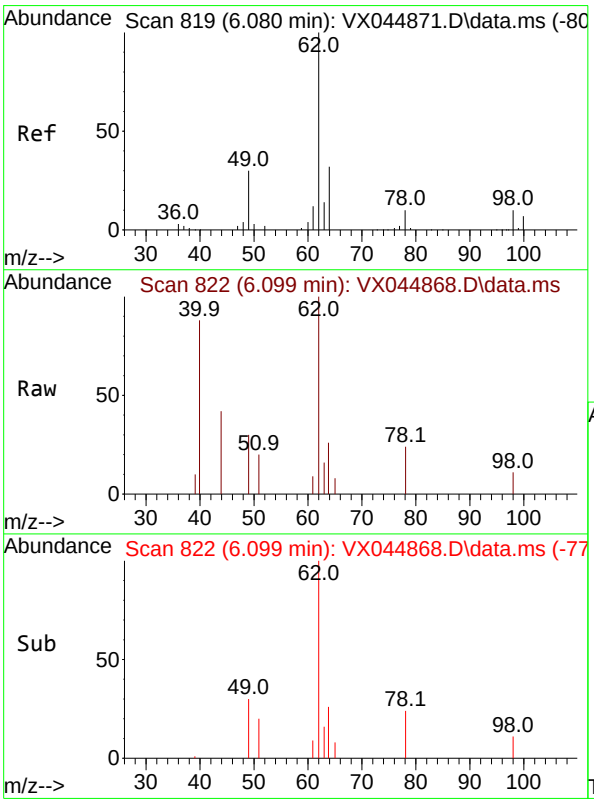
#41
Methacrylonitrile
Concen: 0.438 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 621

Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.1	64.7#
67	0.0	57.0	85.6#
52	15.5	24.0	36.0#

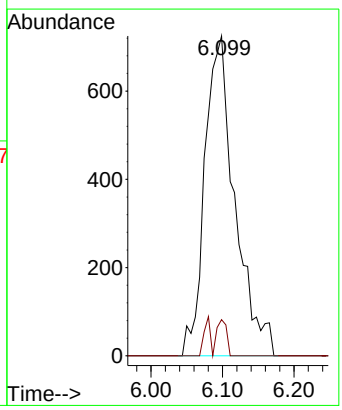


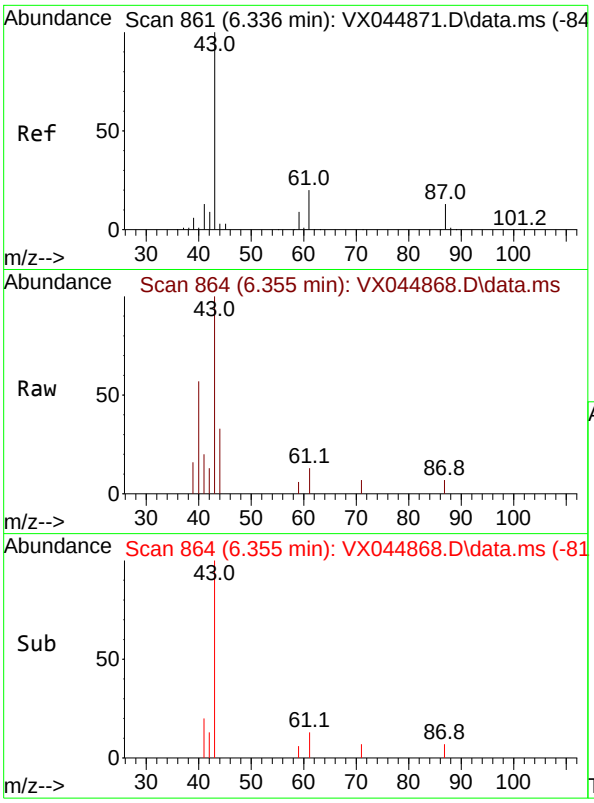


#42
1,2-Dichloroethane
Concen: 0.894 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 2120

Ion	Ratio	Lower	Upper
62	100		
98	3.7	0.0	19.4



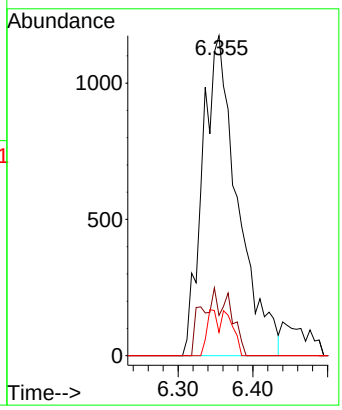


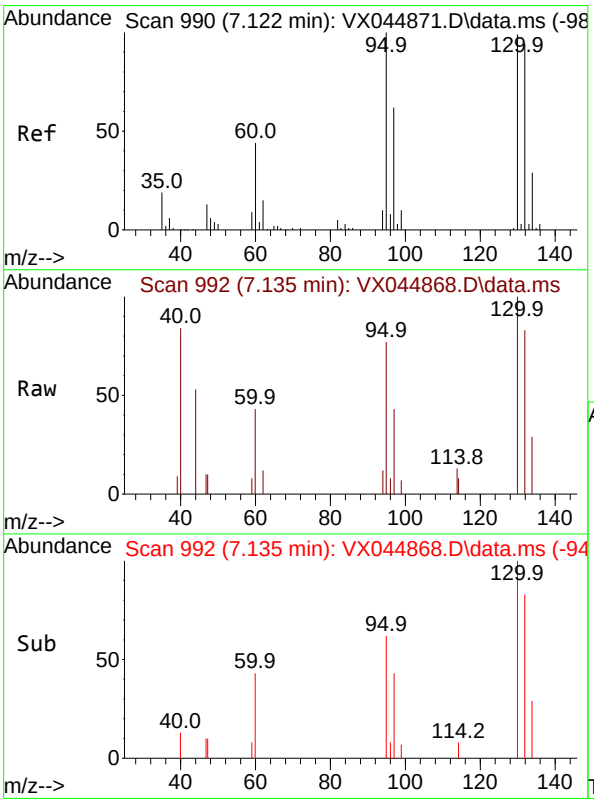
#43
Isopropyl Acetate
Concen: 0.897 ug/l
RT: 6.355 min Scan# 8
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3839

Ion	Ratio	Lower	Upper
43	100		
61	16.9	15.8	23.8
87	4.6	10.0	15.0#

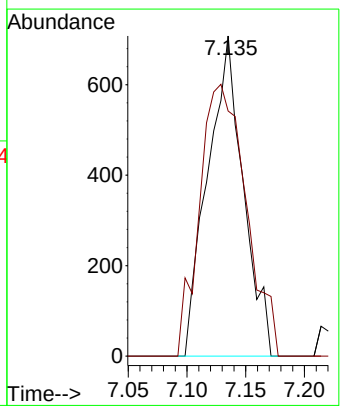


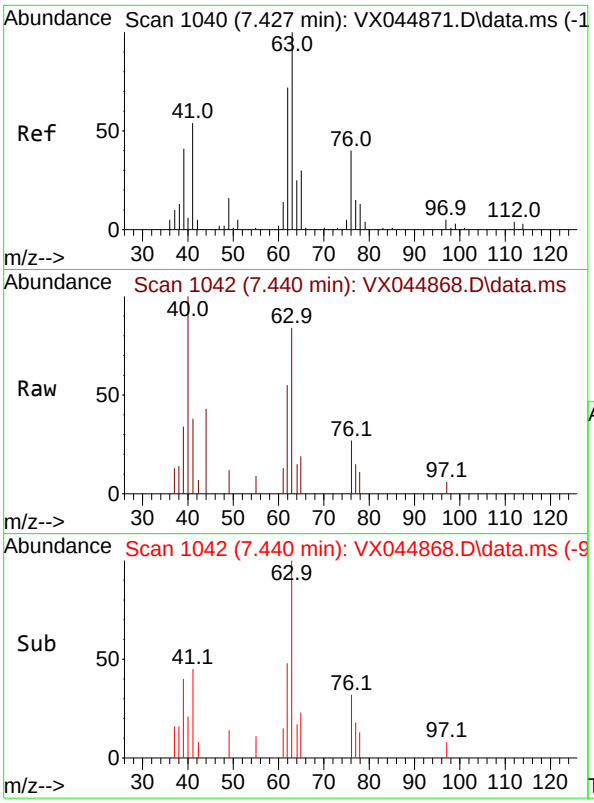


#44
Trichloroethene
Concen: 0.874 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:130 Resp: 1487

Ion	Ratio	Lower	Upper
130	100		
95	76.6	0.0	202.4



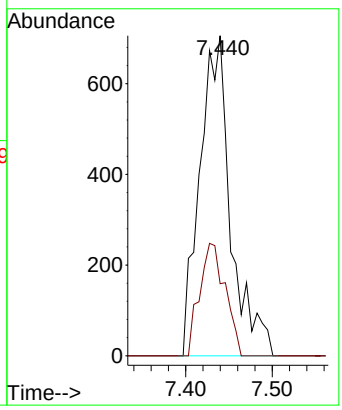


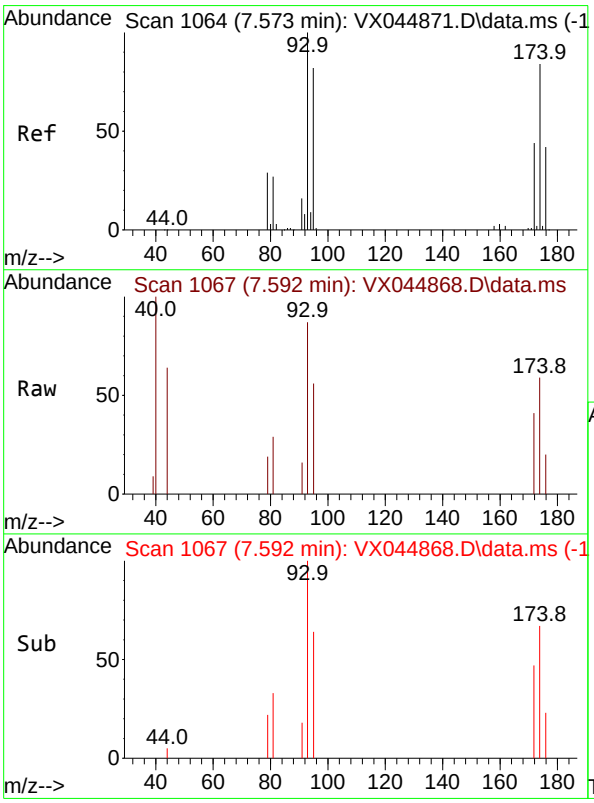
#45
1,2-Dichloropropane
Concen: 0.943 ug/l
RT: 7.440 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 1746

Ion	Ratio	Lower	Upper
63	100		
65	22.5	24.2	36.4#

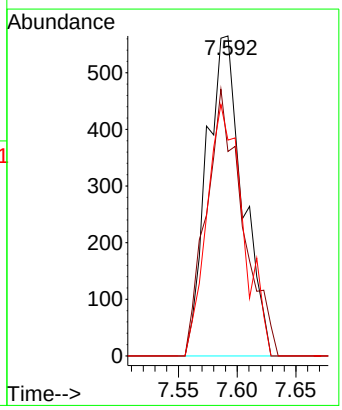


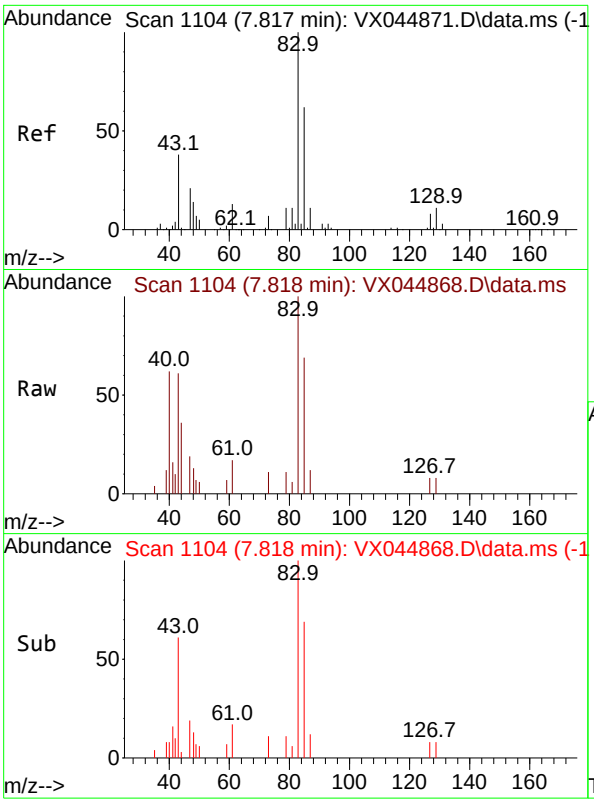


#46
Dibromomethane
Concen: 0.936 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 93 Resp: 1202

Ion	Ratio	Lower	Upper
93	100		
95	84.3	66.2	99.4
174	79.3	69.9	104.9



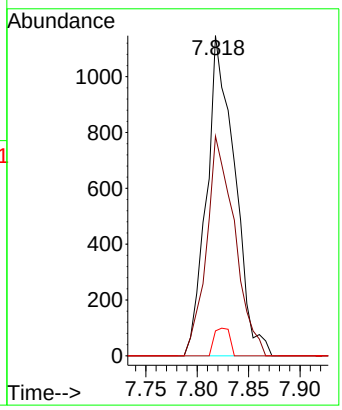


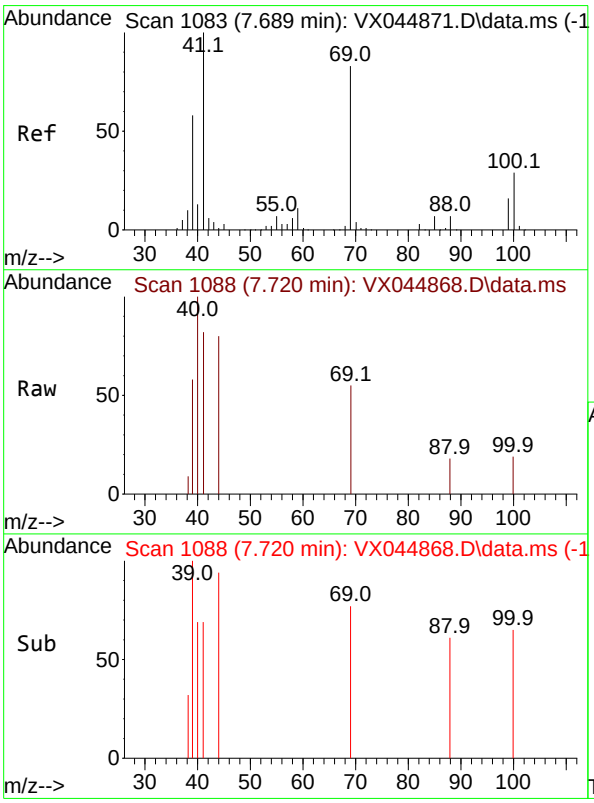
#47
Bromodichloromethane
Concen: 0.875 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2176

Ion	Ratio	Lower	Upper
83	100		
85	68.6	50.0	75.0
127	7.8	6.4	9.6

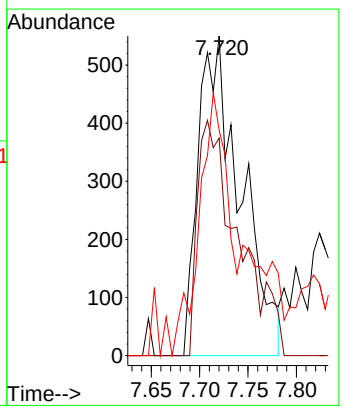


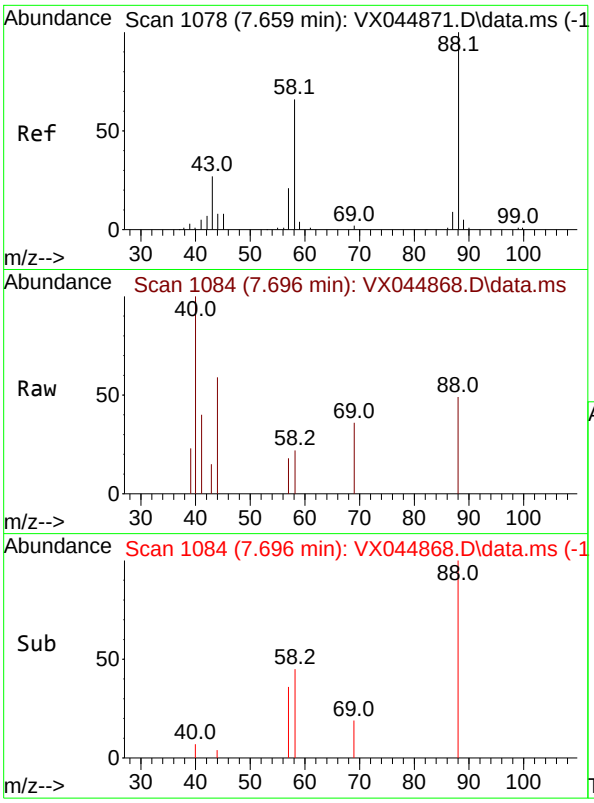


#48
Methyl methacrylate
Concen: 0.830 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 1675

Ion	Ratio	Lower	Upper
41	100		
69	71.8	65.8	98.8
39	55.9	46.4	69.6



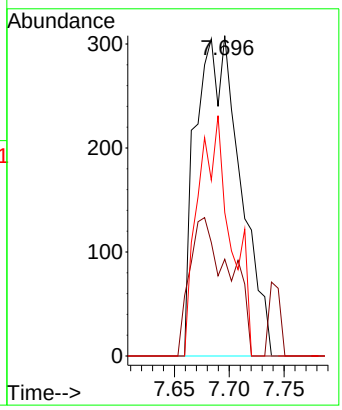


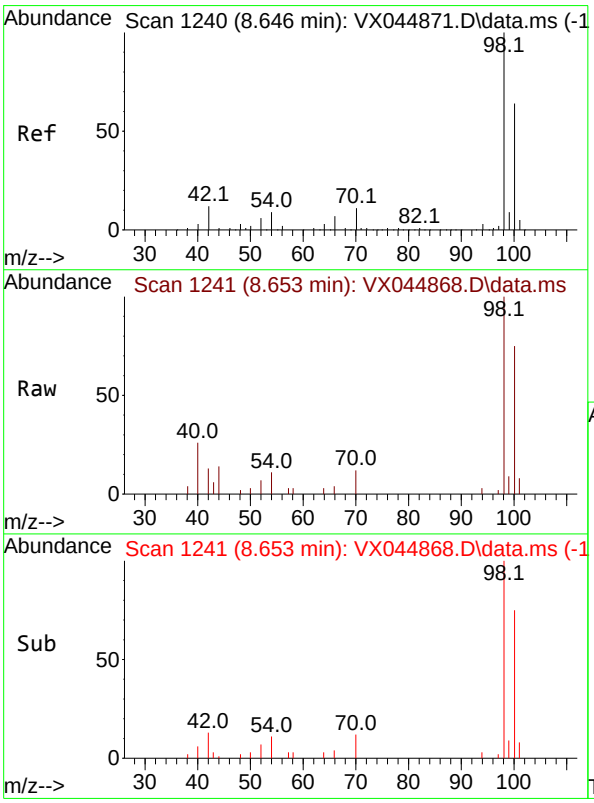
#49
1,4-Dioxane
Concen: 20.015 ug/l
RT: 7.696 min Scan# 1
Delta R.T. 0.037 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 867

Ion	Ratio	Lower	Upper
88	100		
43	38.9	26.6	39.8
58	55.5	55.9	83.9#

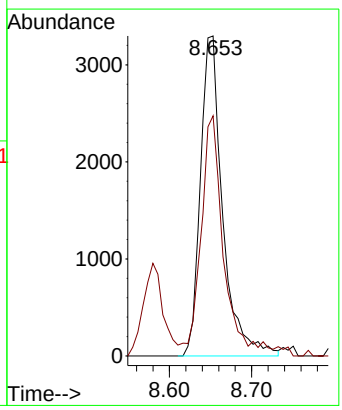


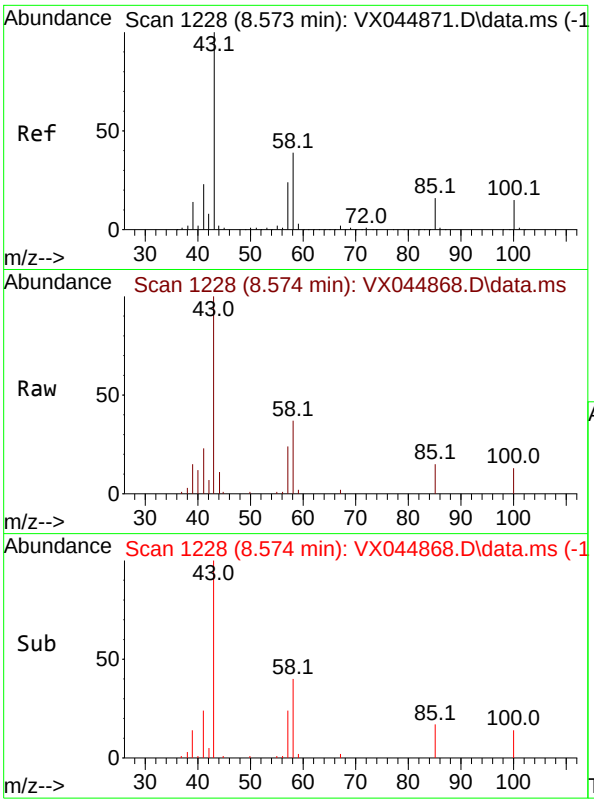


#50
Toluene-d8
Concen: 0.991 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 98 Resp: 6195

Ion	Ratio	Lower	Upper
98	100		
100	70.7	52.7	79.1



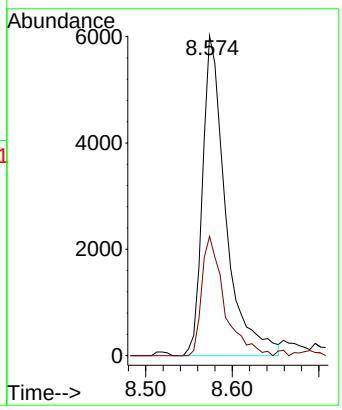


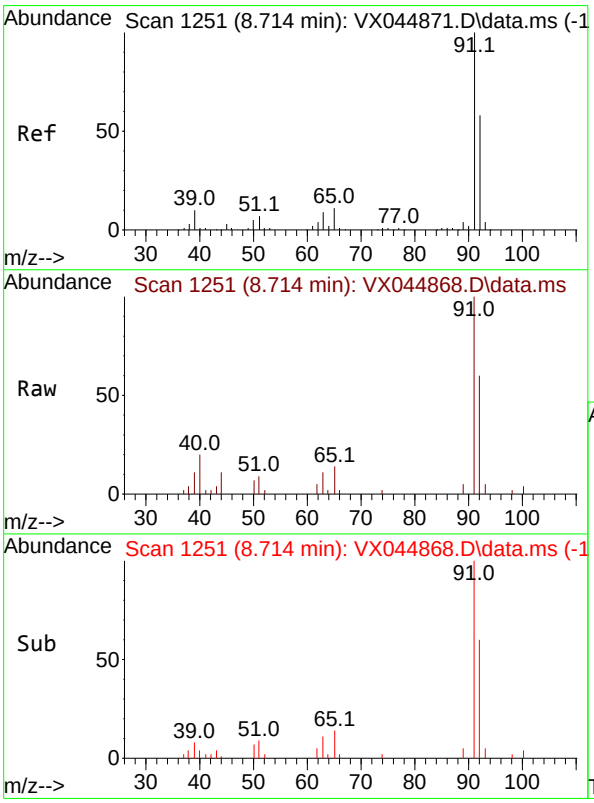
#51
4-Methyl-2-Pentanone
Concen: 4.290 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 11169

Ion	Ratio	Lower	Upper
43	100		
58	36.3	30.8	46.2

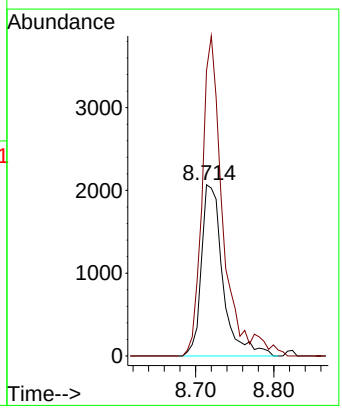


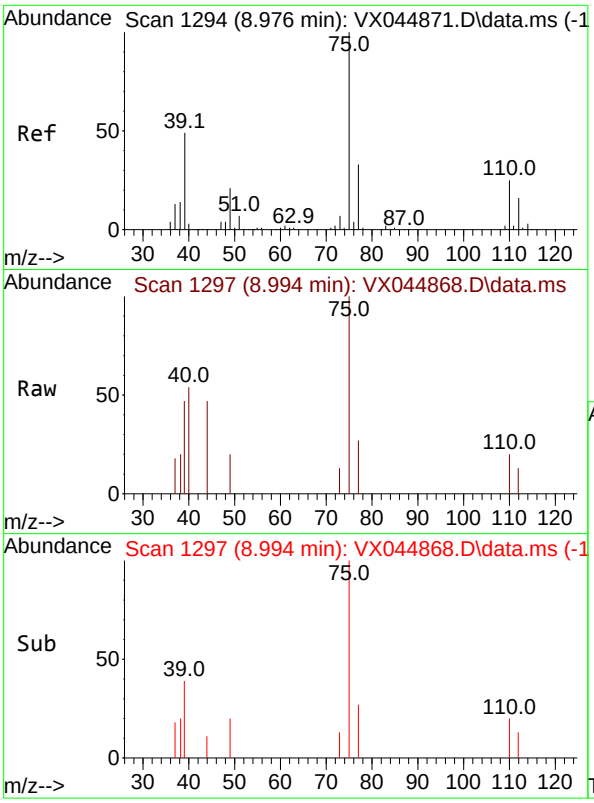


#52
Toluene
Concen: 0.889 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 92 Resp: 3943

Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.4	206.2



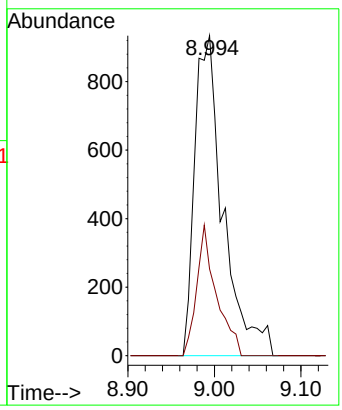


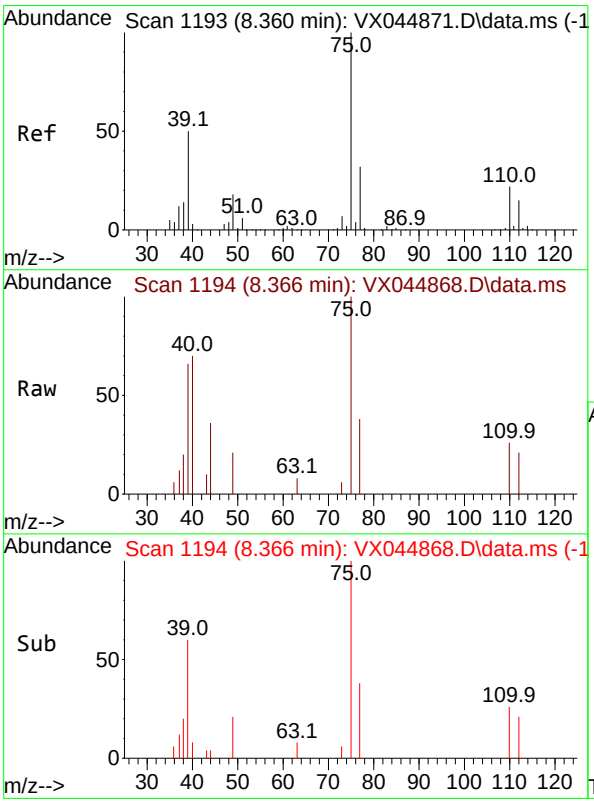
#53
t-1,3-Dichloropropene
Concen: 0.842 ug/l
RT: 8.994 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 2119

Ion	Ratio	Lower	Upper
75	100		
77	27.1	26.0	39.0

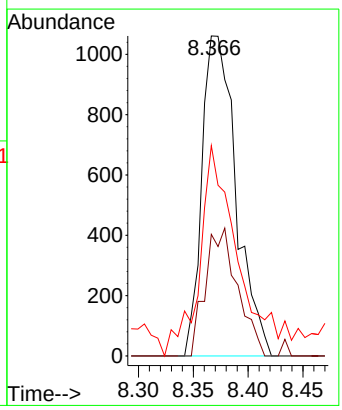


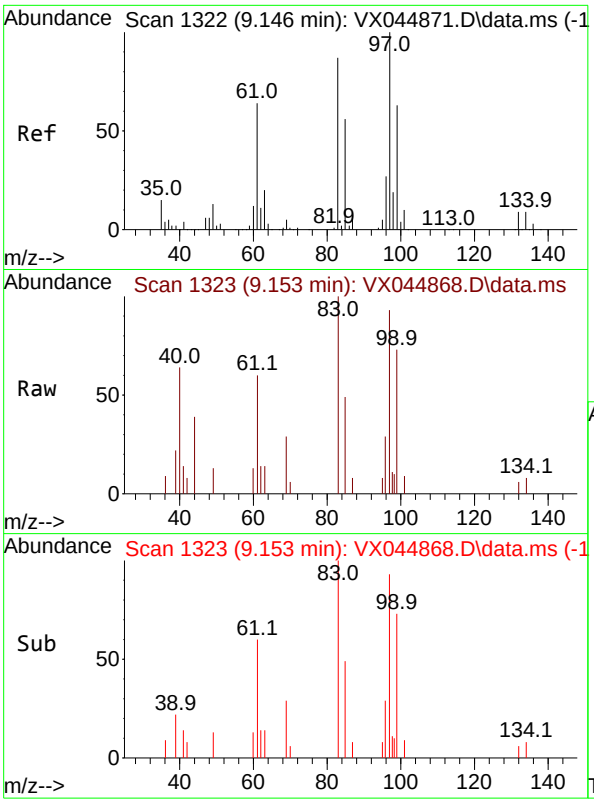


#54
cis-1,3-Dichloropropene
Concen: 0.820 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 2300

Ion	Ratio	Lower	Upper
75	100		
77	38.0	25.3	37.9#
39	60.3	40.0	60.0#



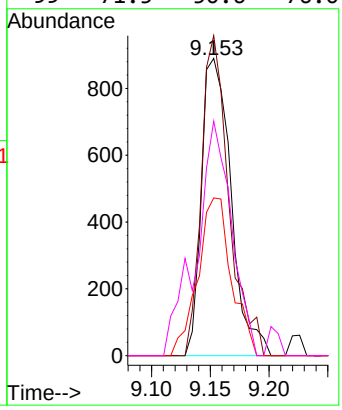


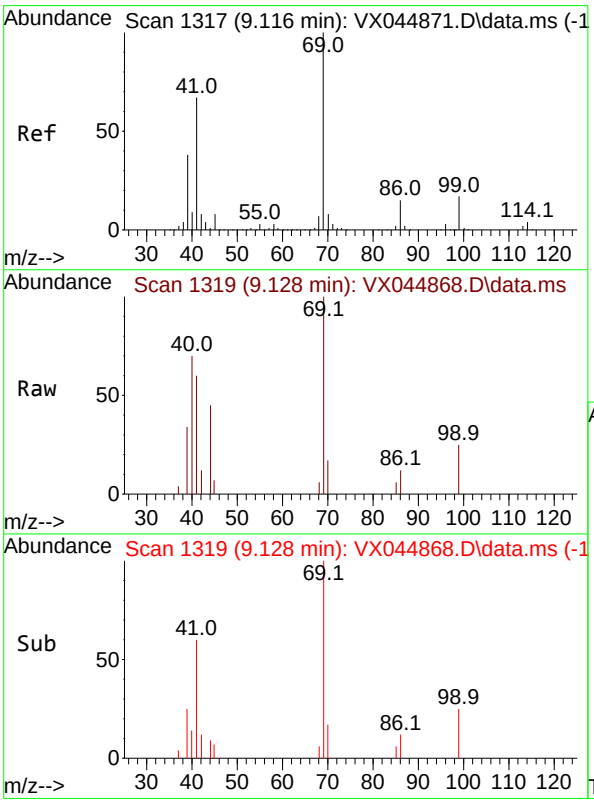
#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 1558

Ion	Ratio	Lower	Upper
97	100		
83	107.6	69.8	104.6#
85	53.0	44.8	67.2
99	71.5	50.6	76.0

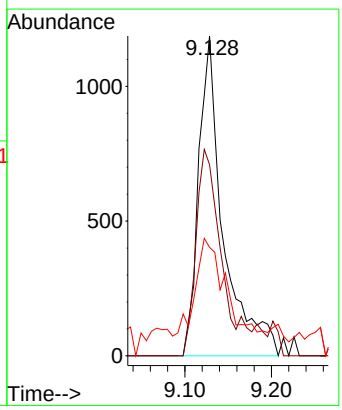


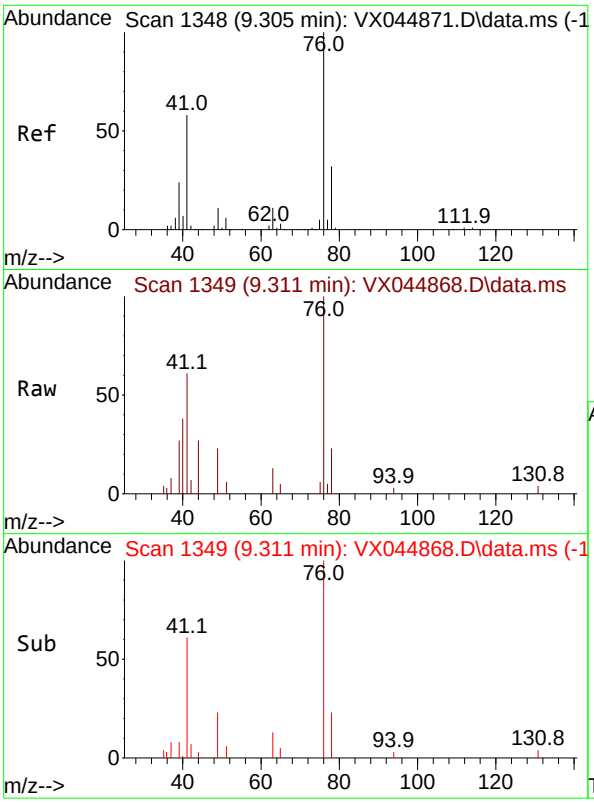


#56
Ethyl methacrylate
Concen: 0.852 ug/l
RT: 9.128 min Scan# 1319
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 69 Resp: 2346

Ion	Ratio	Lower	Upper
69	100		
41	61.6	55.2	82.8
39	56.2	30.8	46.2#



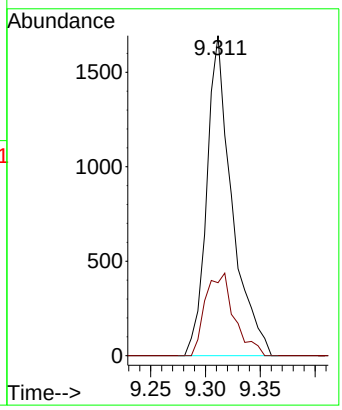


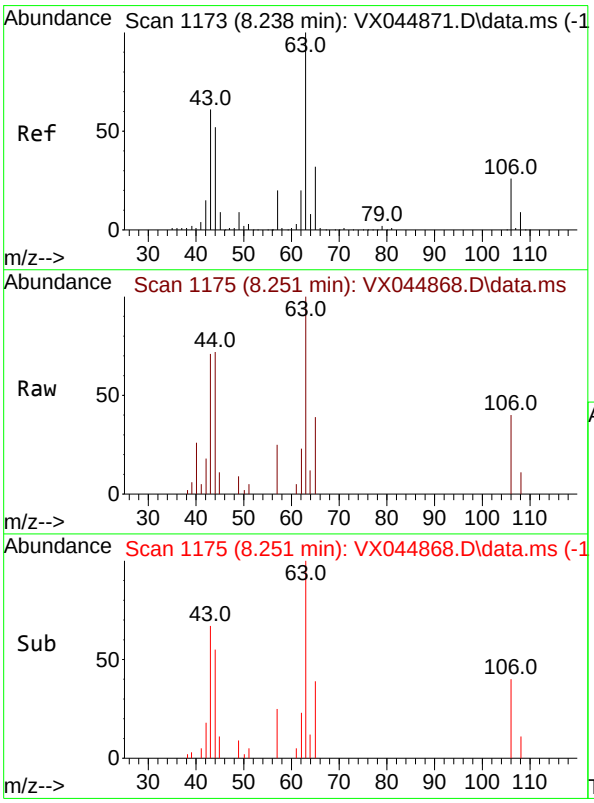
#57
1,3-Dichloropropane
Concen: 0.905 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2699

Ion	Ratio	Lower	Upper
76	100		
78	29.6	25.8	38.8

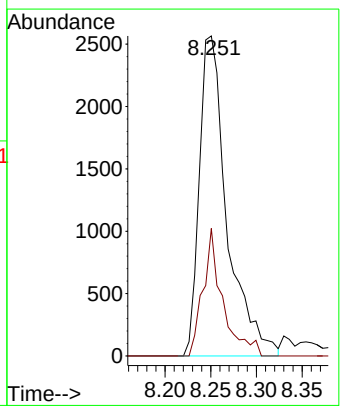


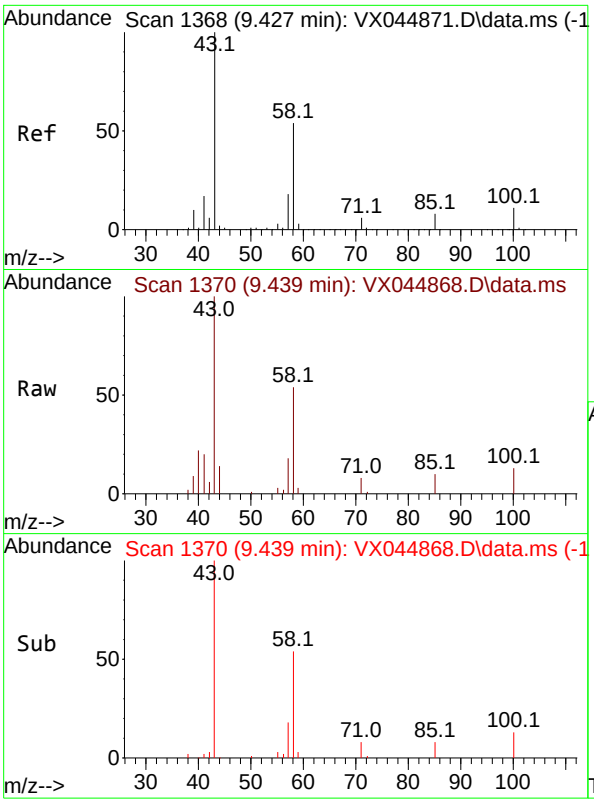


#58
2-Chloroethyl Vinyl ether
Concen: 3.996 ug/l
RT: 8.251 min Scan# 1175
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 5401

Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.3	31.9



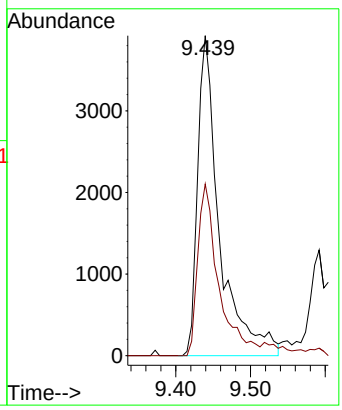


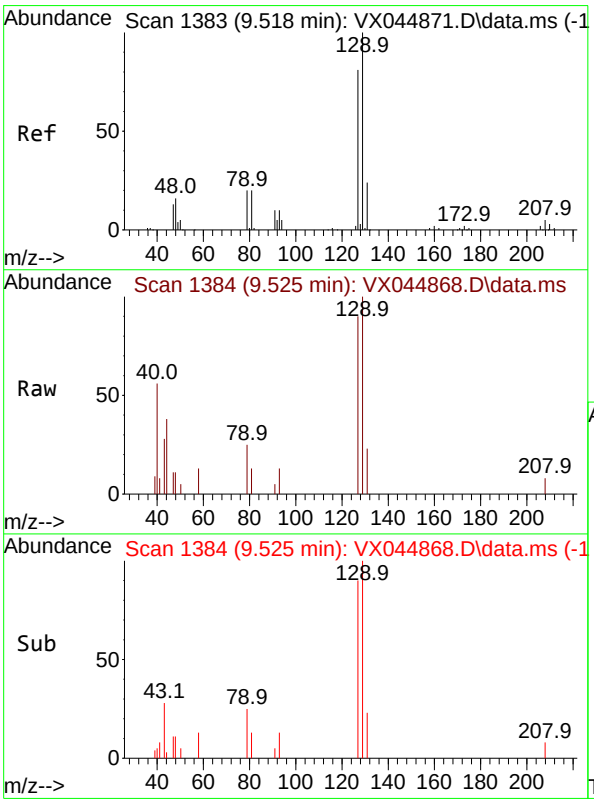
#59
2-Hexanone
Concen: 4.240 ug/l
RT: 9.439 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 7952

Ion	Ratio	Lower	Upper
43	100		
58	51.3	27.5	82.4

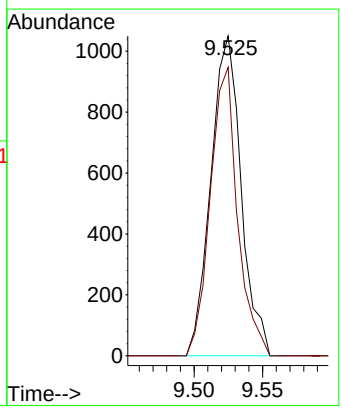


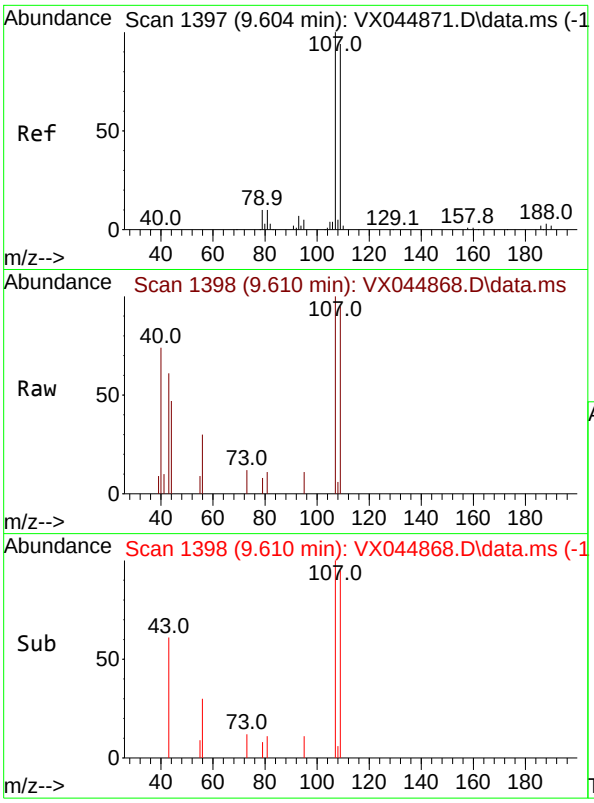


#60
Dibromochloromethane
Concen: 0.885 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:129 Resp: 1613

Ion	Ratio	Lower	Upper
129	100		
127	81.3	39.1	117.3



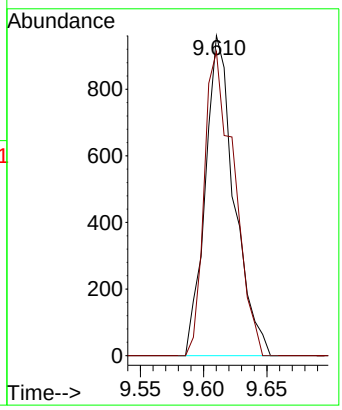


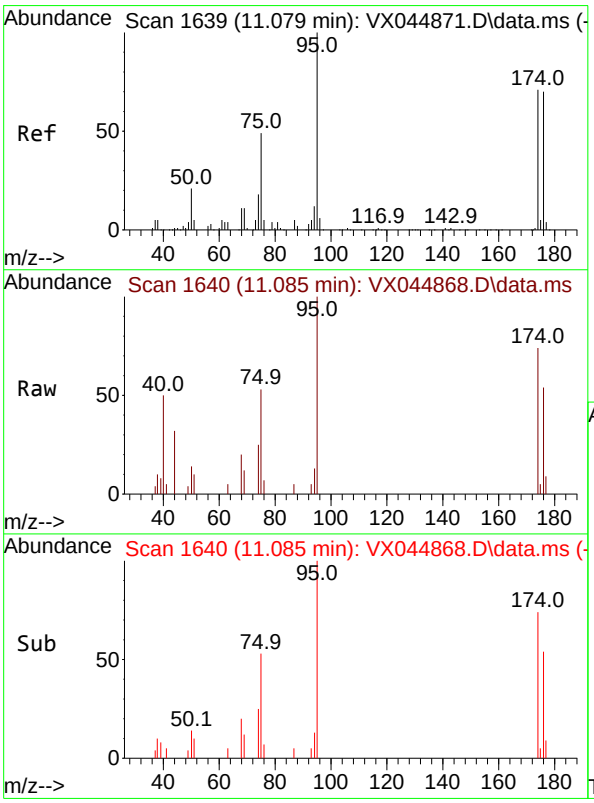
#61
1,2-Dibromoethane
Concen: 0.888 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 1534

Ion	Ratio	Lower	Upper
107	100		
109	97.4	75.9	113.9

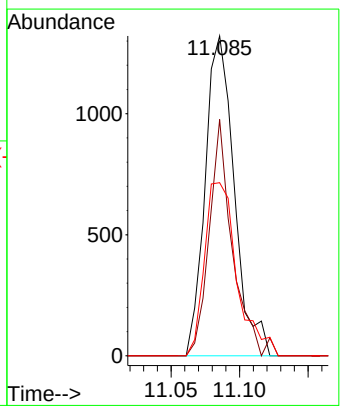


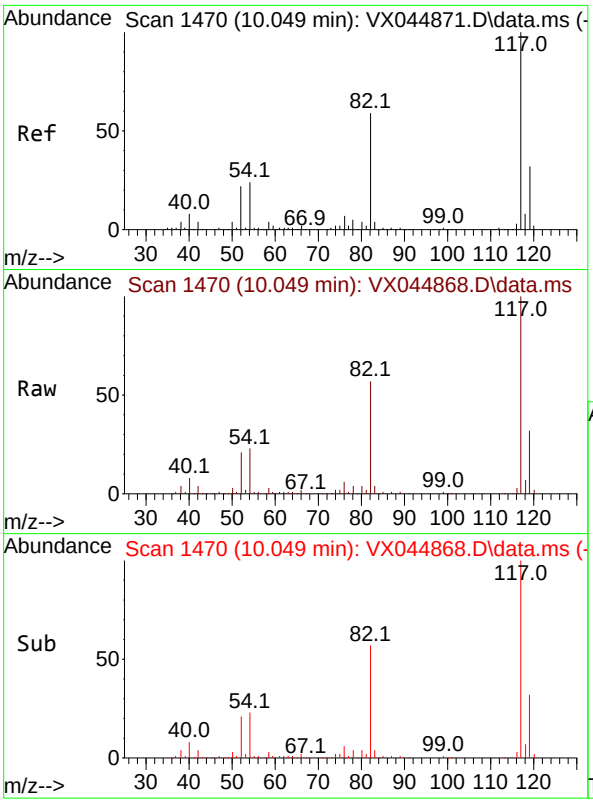


#62
4-Bromofluorobenzene
Concen: 0.926 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 95 Resp: 1950

Ion	Ratio	Lower	Upper
95	100		
174	58.8	0.0	142.6
176	60.5	0.0	141.6



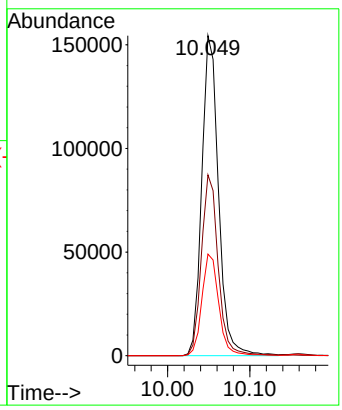


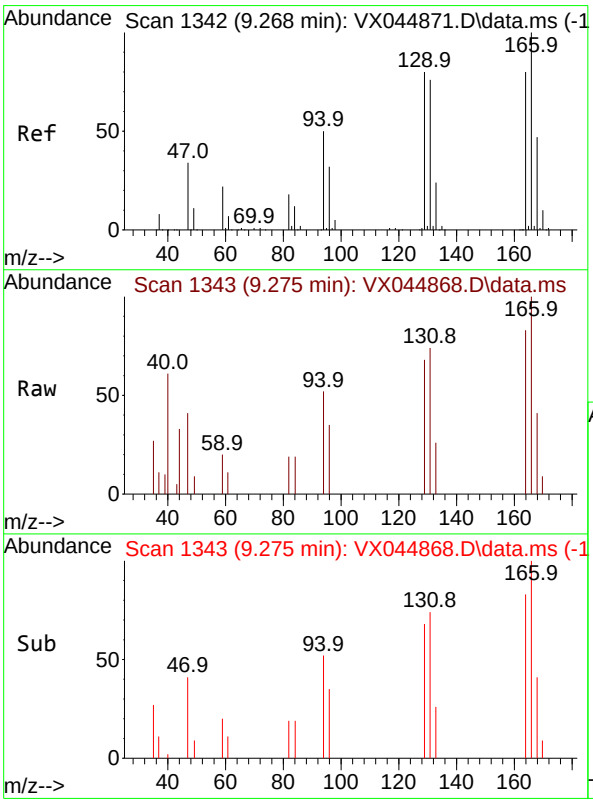
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 218570

Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.5	71.3
119	31.8	25.4	38.0

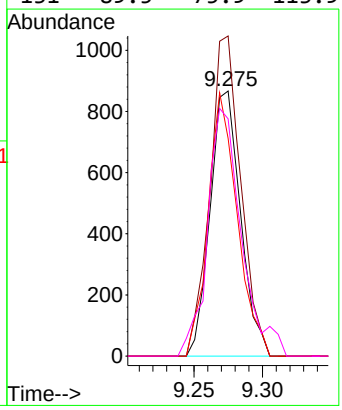


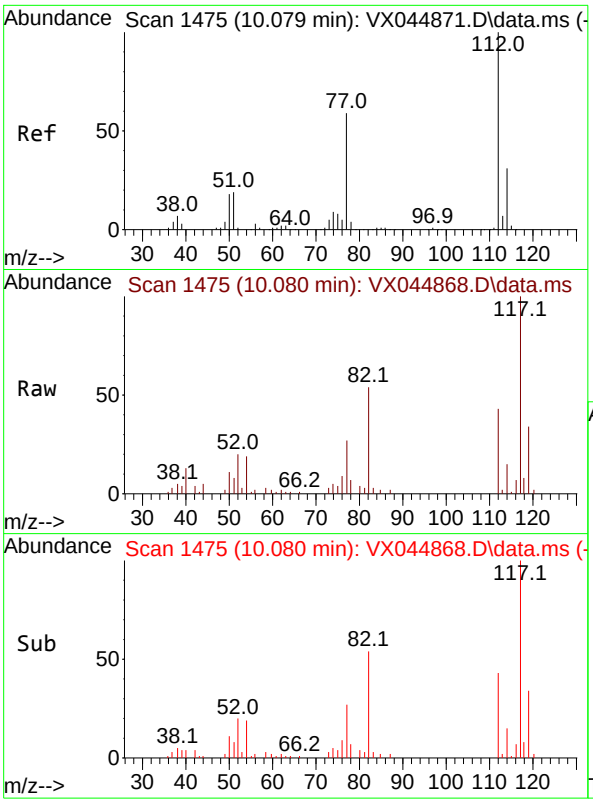


#64
Tetrachloroethene
Concen: 0.971 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:164 Resp: 1339

Ion	Ratio	Lower	Upper
164	100		
166	120.8	100.4	150.6
129	82.1	79.9	119.9
131	89.5	75.9	113.9



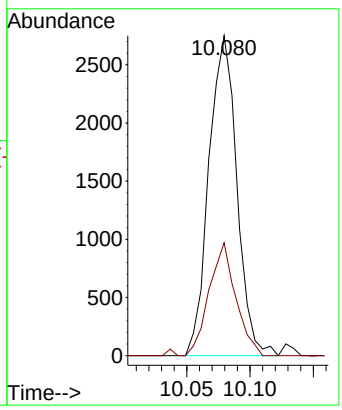


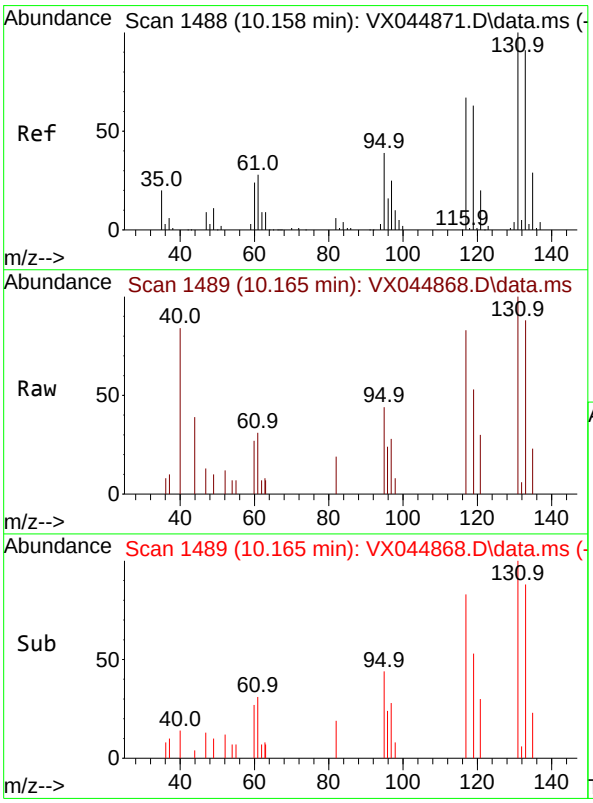
#65
Chlorobenzene
Concen: 0.902 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 4234

Ion	Ratio	Lower	Upper
112	100		
114	35.3	25.0	37.6

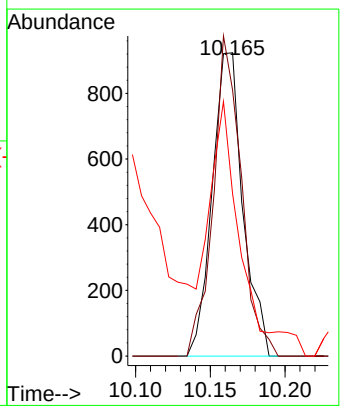


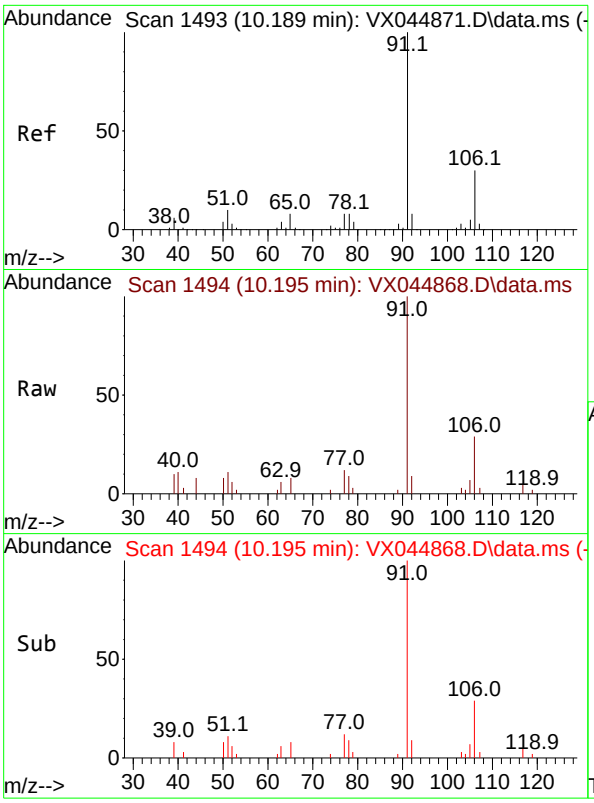


#66
1,1,1,2-Tetrachloroethane
Concen: 0.874 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:131 Resp: 1320

Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.1	141.3
119	0.0	33.6	100.6#



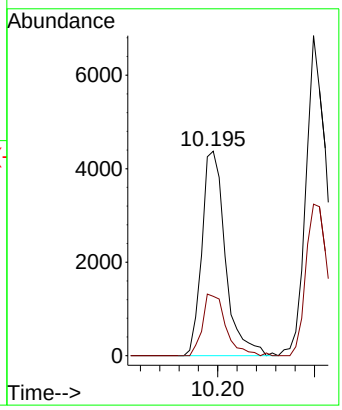


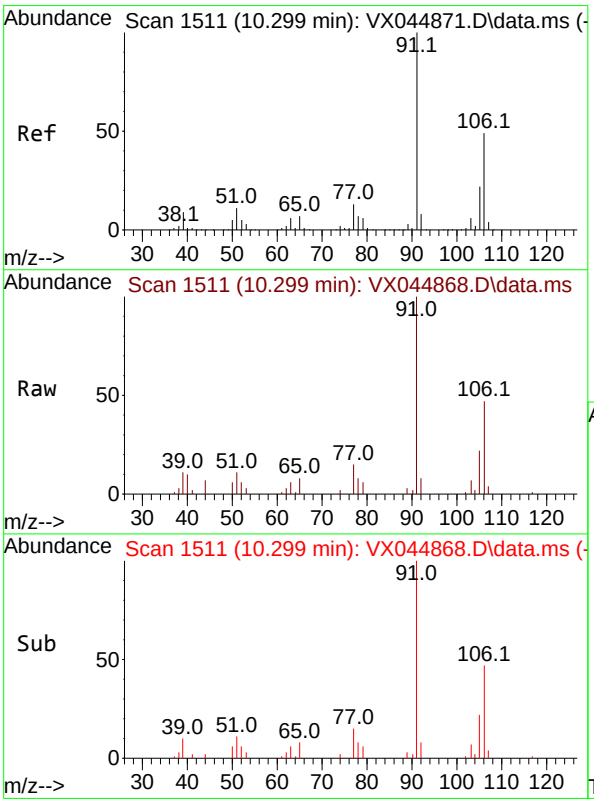
#67
Ethyl Benzene
Concen: 0.892 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 7388

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.9	35.9

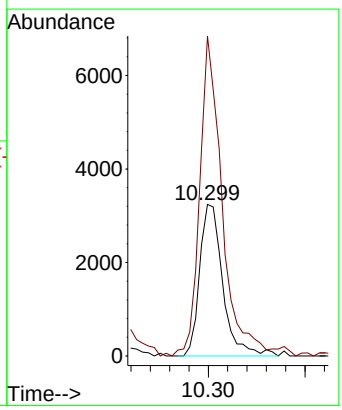


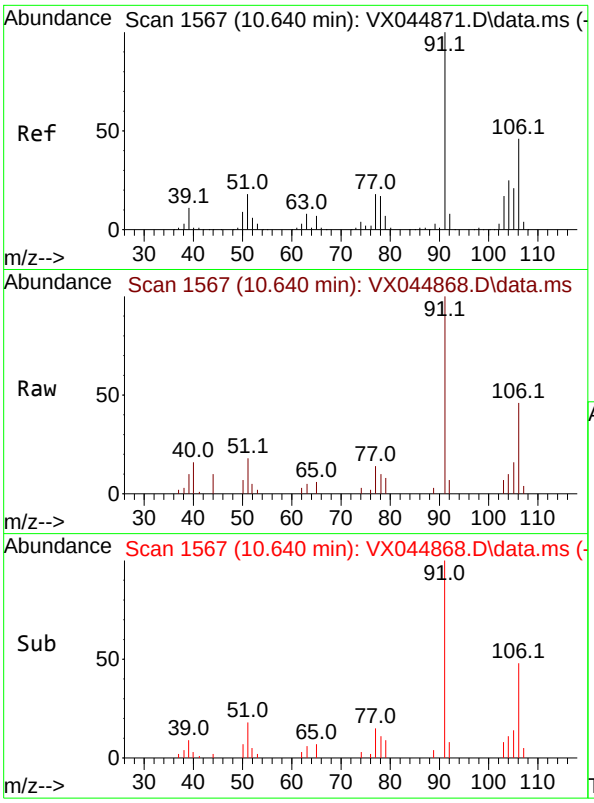


#68
m/p-Xylenes
Concen: 1.763 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:106 Resp: 5387

Ion	Ratio	Lower	Upper
106	100		
91	204.7	164.3	246.5



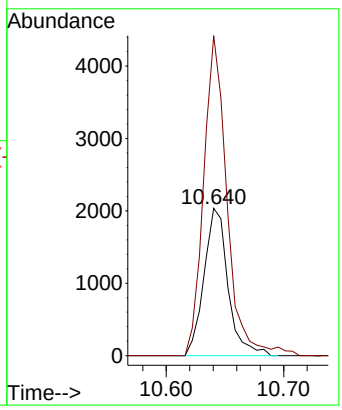


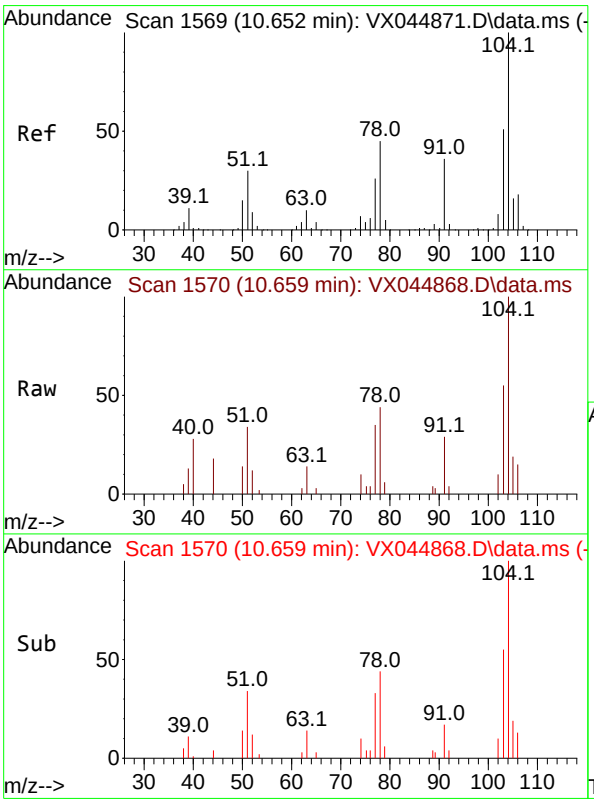
#69
o-Xylene
Concen: 0.942 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 2889

Ion	Ratio	Lower	Upper
106	100		
91	211.5	108.5	325.5

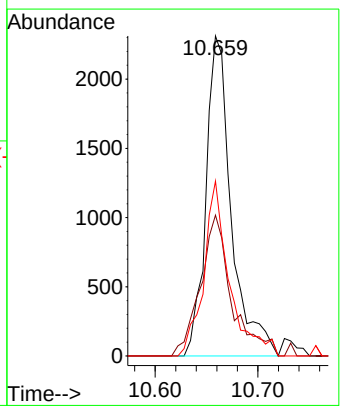


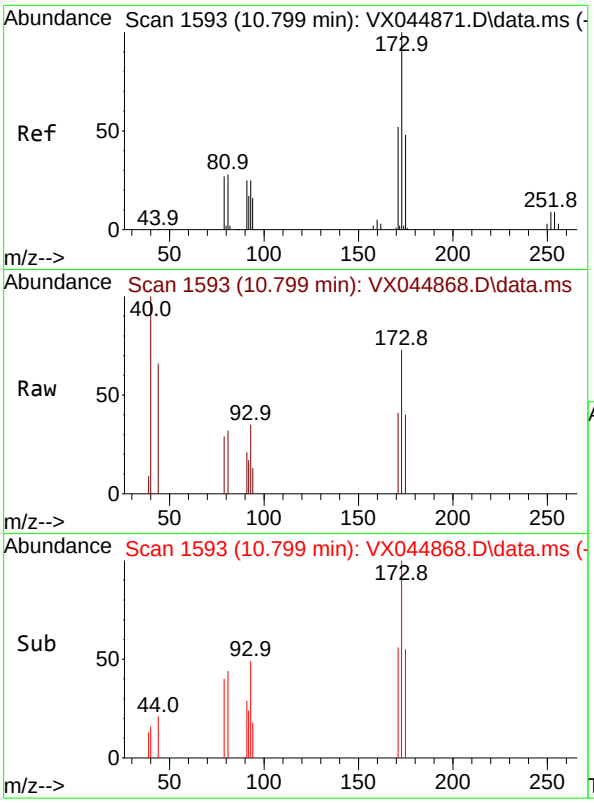


#70
Styrene
Concen: 0.804 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:104 Resp: 3974

Ion	Ratio	Lower	Upper
104	100		
78	54.1	40.5	60.7
103	55.0	43.6	65.4



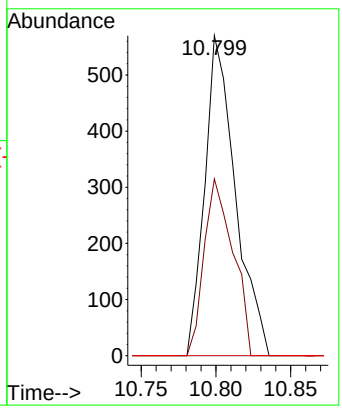


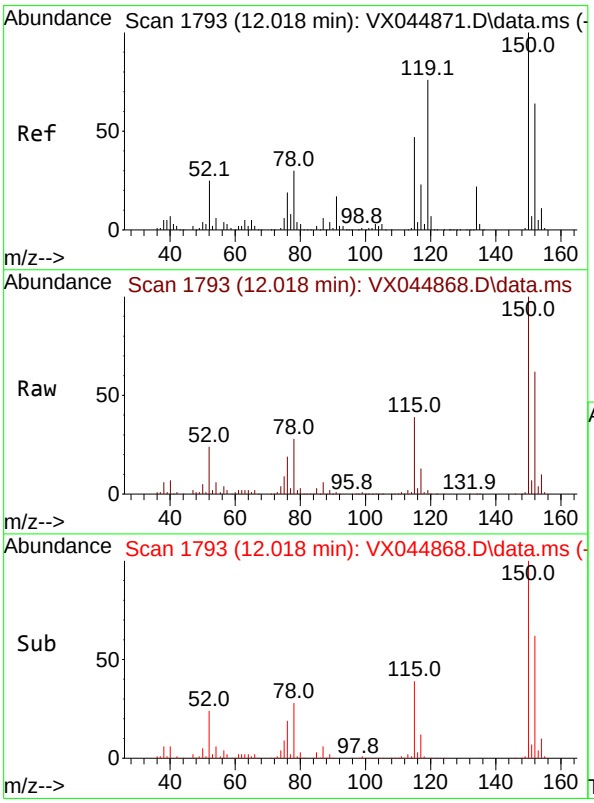
#71
Bromoform
Concen: 0.721 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 813

Ion	Ratio	Lower	Upper
173	100		
175	52.2	24.3	72.8
254	0.0	0.0	0.0

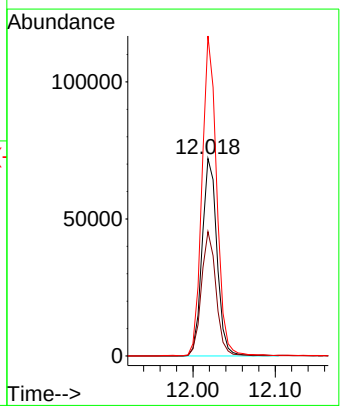


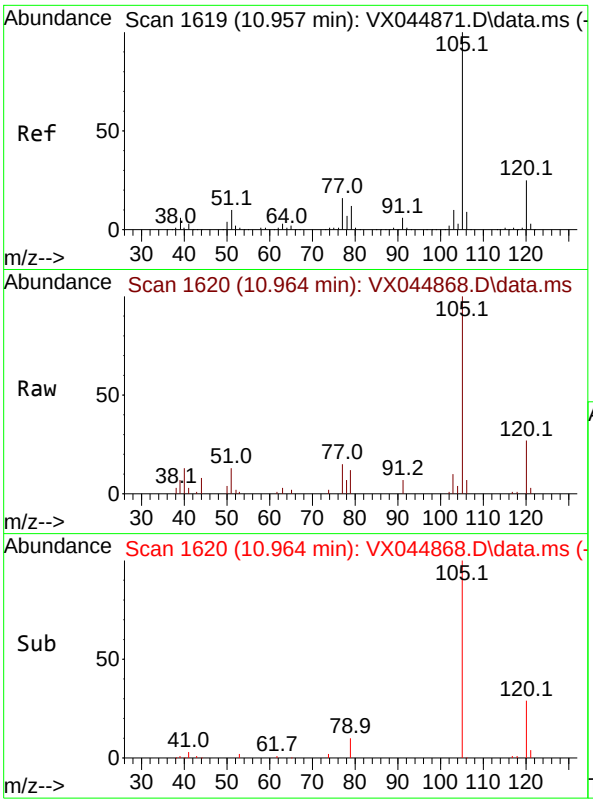


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:152 Resp: 90733

Ion	Ratio	Lower	Upper
152	100		
115	62.0	43.4	130.1
150	158.6	0.0	350.4



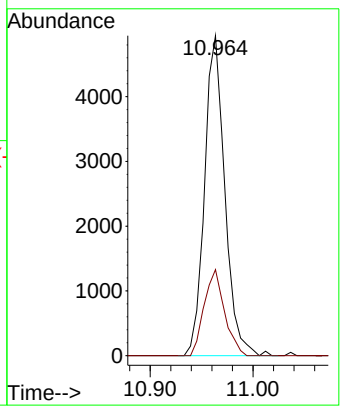


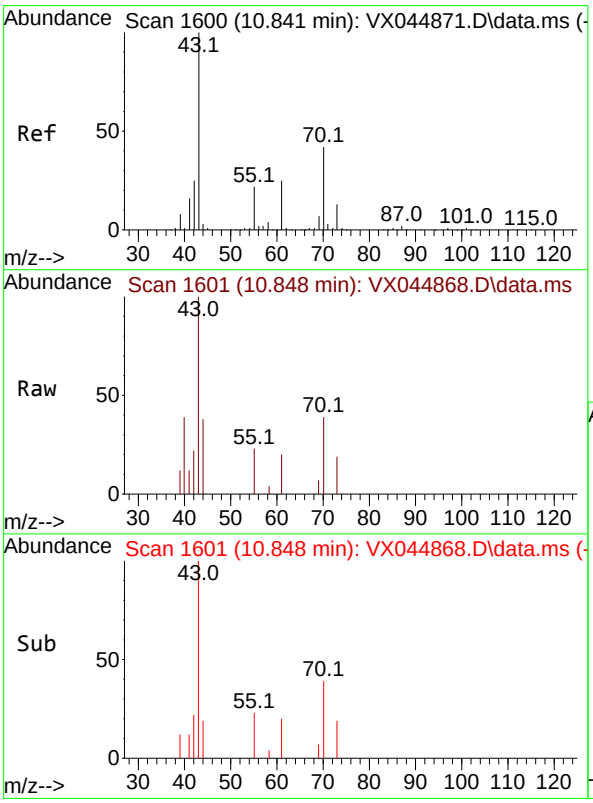
#73
Isopropylbenzene
Concen: 0.928 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6778

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.2	39.5

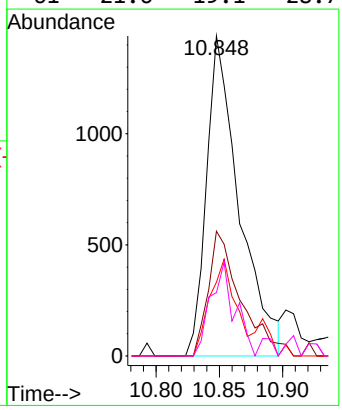


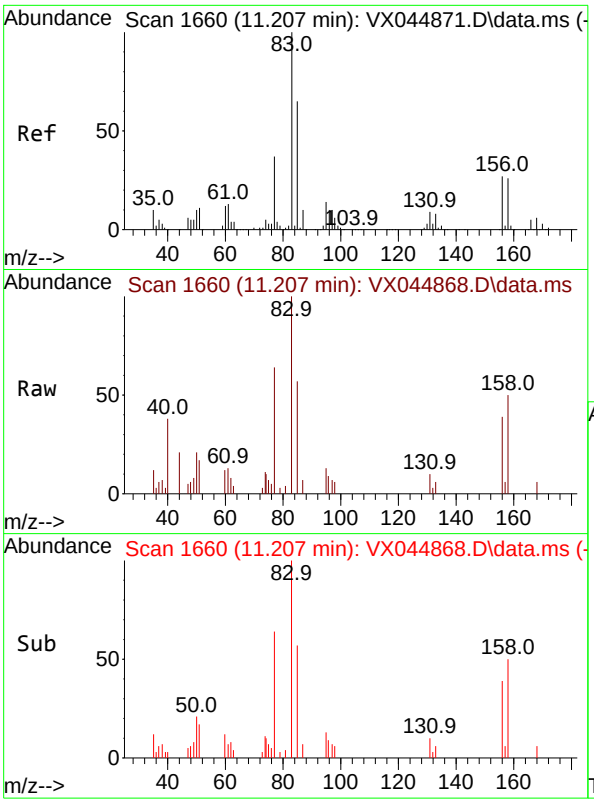


#74
N-amyl acetate
Concen: 0.785 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2596

Ion	Ratio	Lower	Upper
43	100		
70	38.8	33.7	50.5
55	25.2	18.6	27.8
61	21.6	19.1	28.7



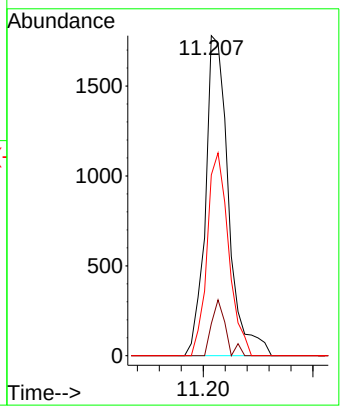


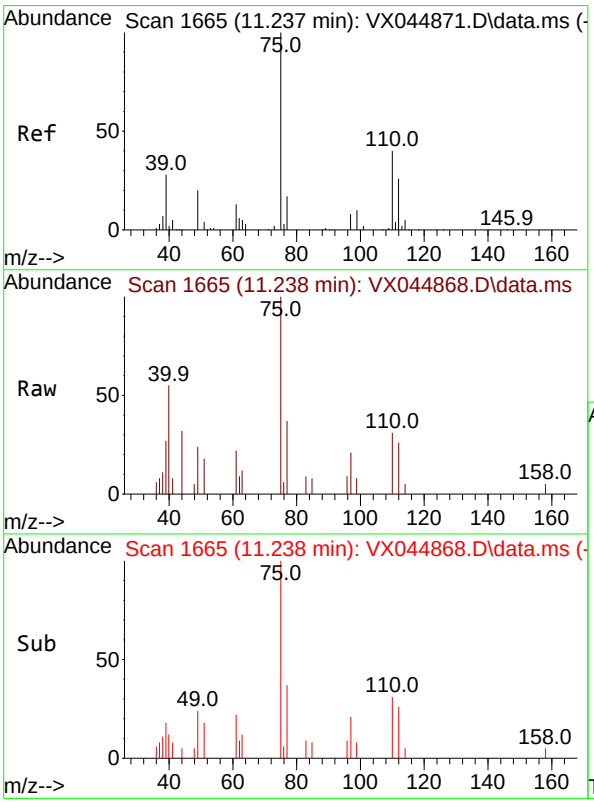
#75
1,1,2,2-Tetrachloroethane
Concen: 1.033 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2594

Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.5	13.5
85	59.2	32.3	96.8

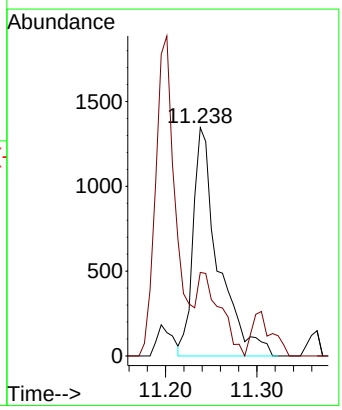


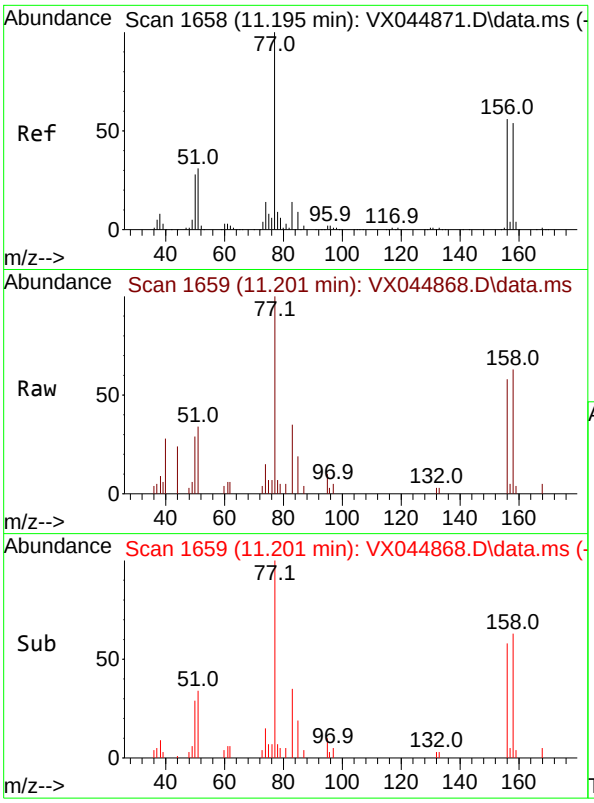


#76
1,2,3-Trichloropropane
Concen: 1.276 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 2567

Ion	Ratio	Lower	Upper
75	100		
77	32.1	21.9	65.7



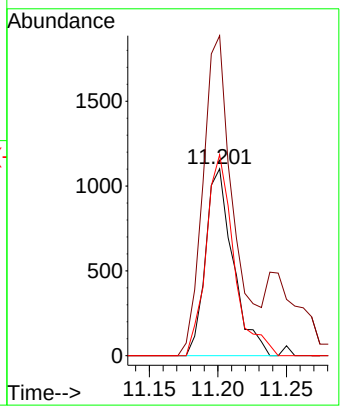


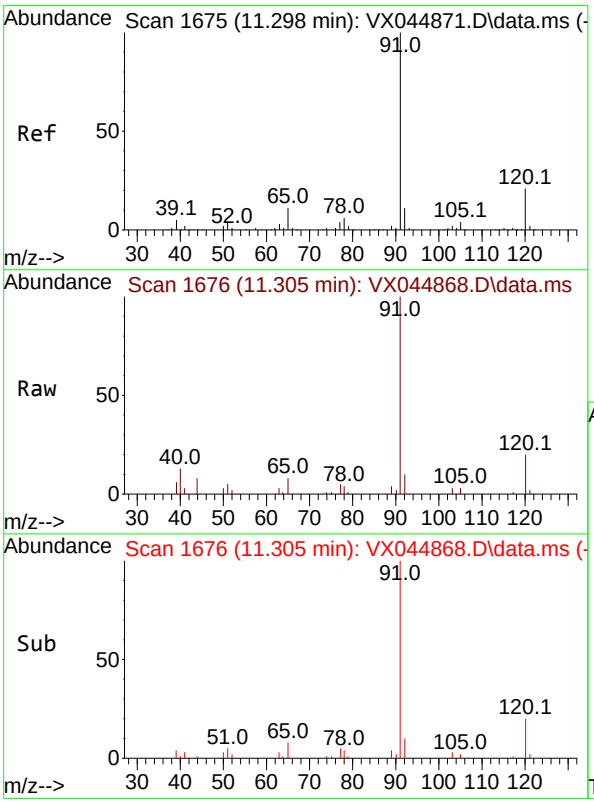
#77
Bromobenzene
Concen: 0.928 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 1537

Ion	Ratio	Lower	Upper
156	100		
77	188.7	88.4	265.3
158	108.6	48.4	145.2

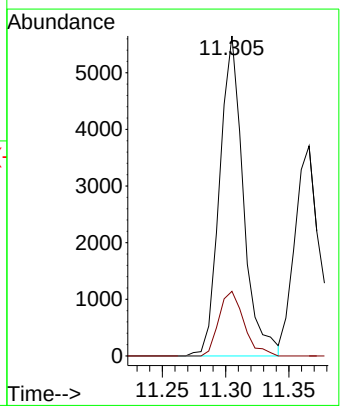


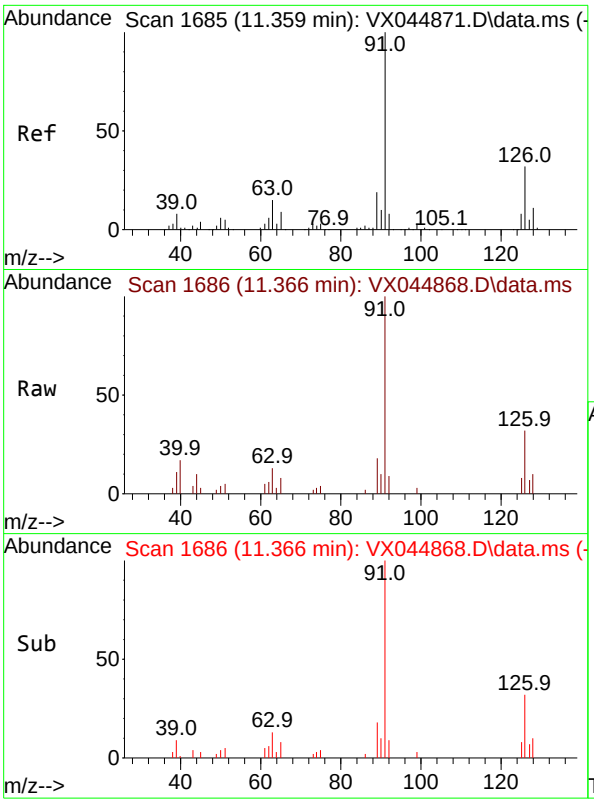


#78
n-propylbenzene
Concen: 0.871 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 7347

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.3



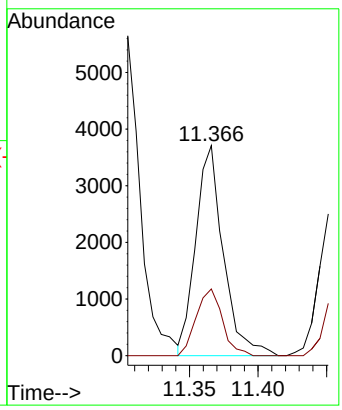


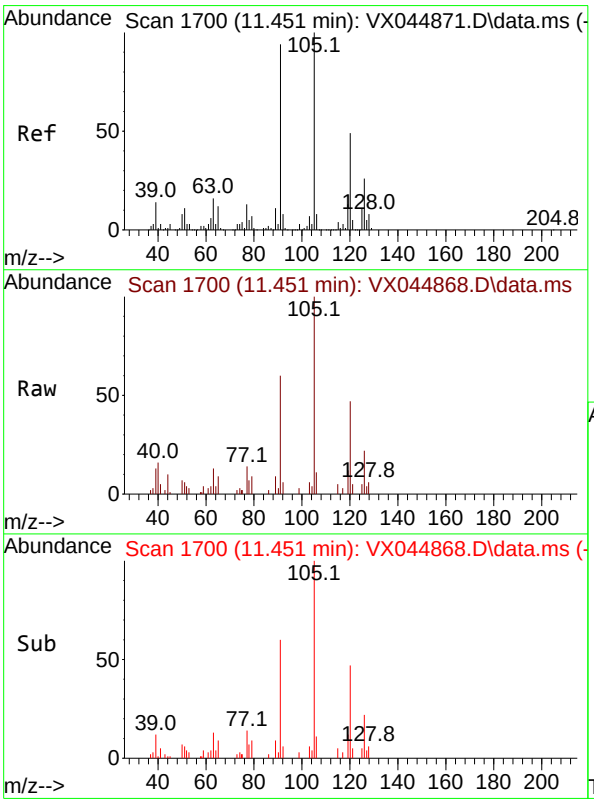
#79
2-Chlorotoluene
Concen: 1.001 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 5188

Ion	Ratio	Lower	Upper
91	100		
126	30.1	16.2	48.6

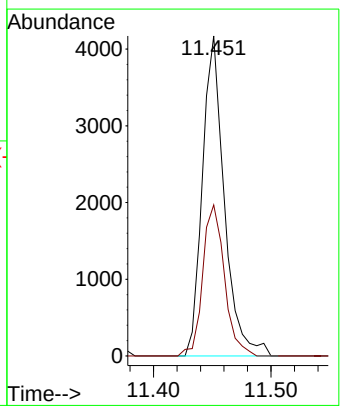


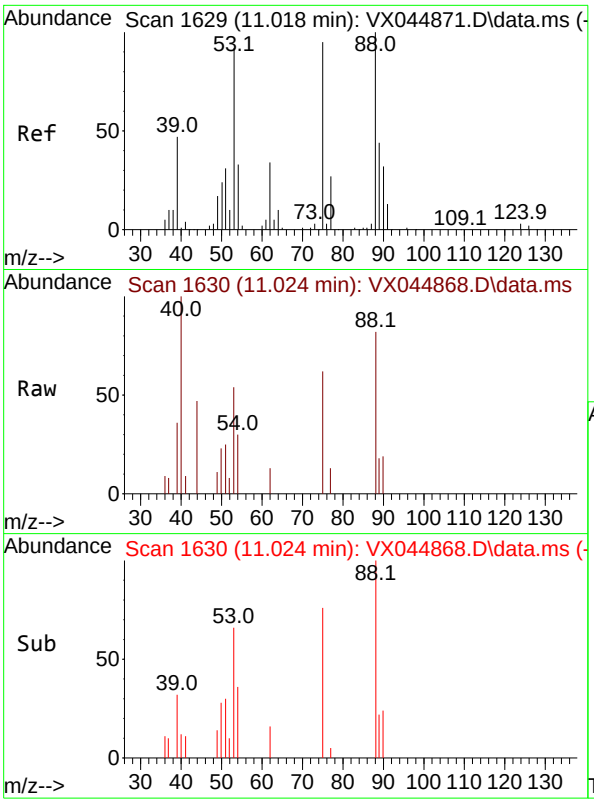


#80
1,3,5-Trimethylbenzene
Concen: 0.913 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 5410

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.0	72.0



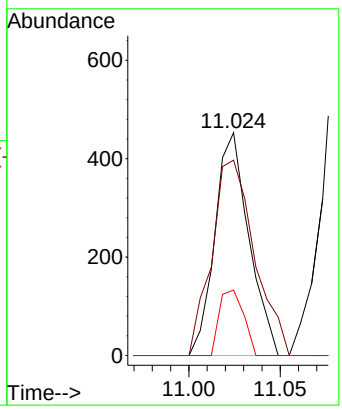


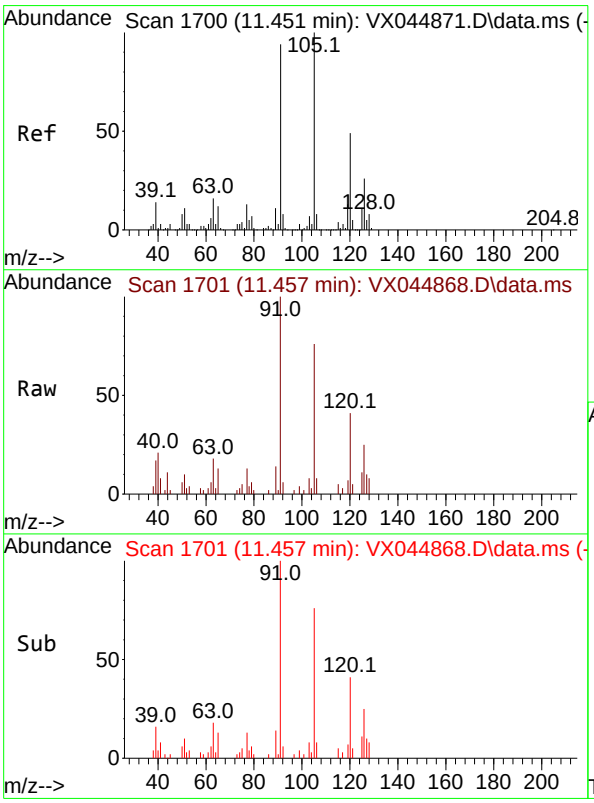
#81
trans-1,4-Dichloro-2-butene
Concen: 0.751 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 587

Ion	Ratio	Lower	Upper
75	100		
53	110.1	78.0	117.0
89	21.0	36.6	54.8#

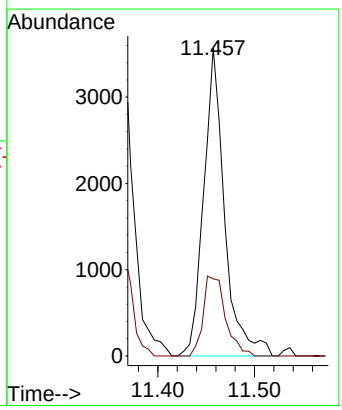


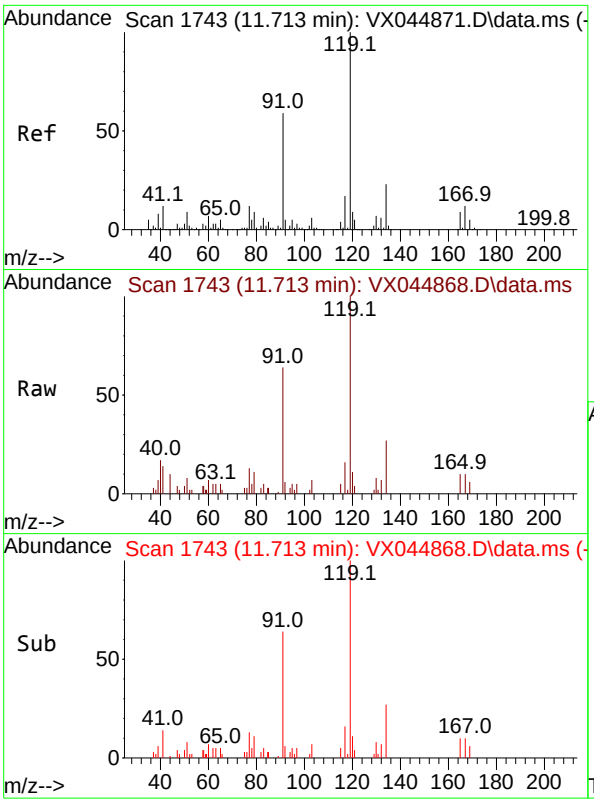


#82
4-Chlorotoluene
Concen: 0.936 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 5367

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.2	42.6



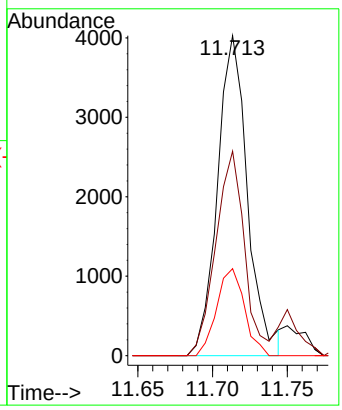


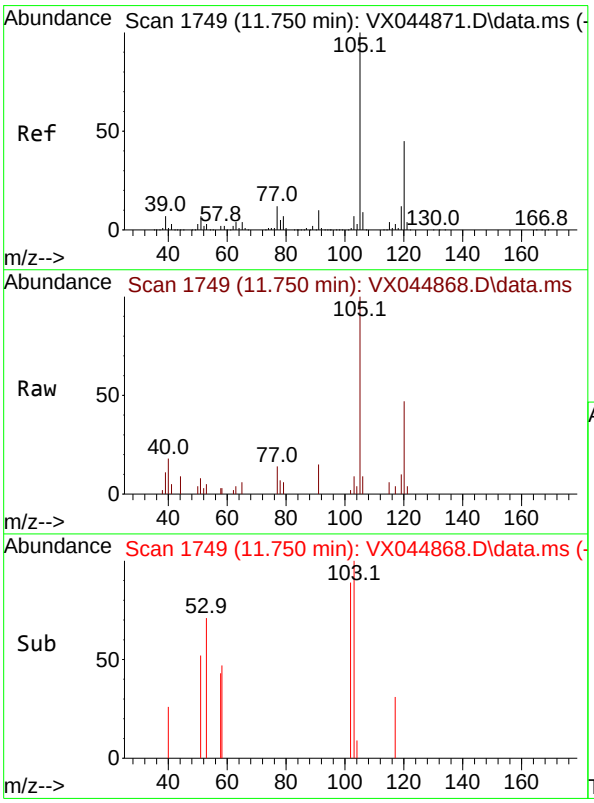
#83
tert-Butylbenzene
Concen: 0.937 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 5620

Ion	Ratio	Lower	Upper
119	100		
91	61.3	29.1	87.4
134	25.2	11.5	34.5

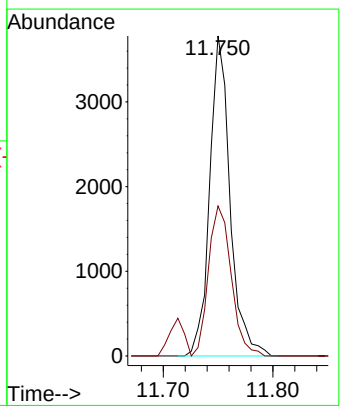


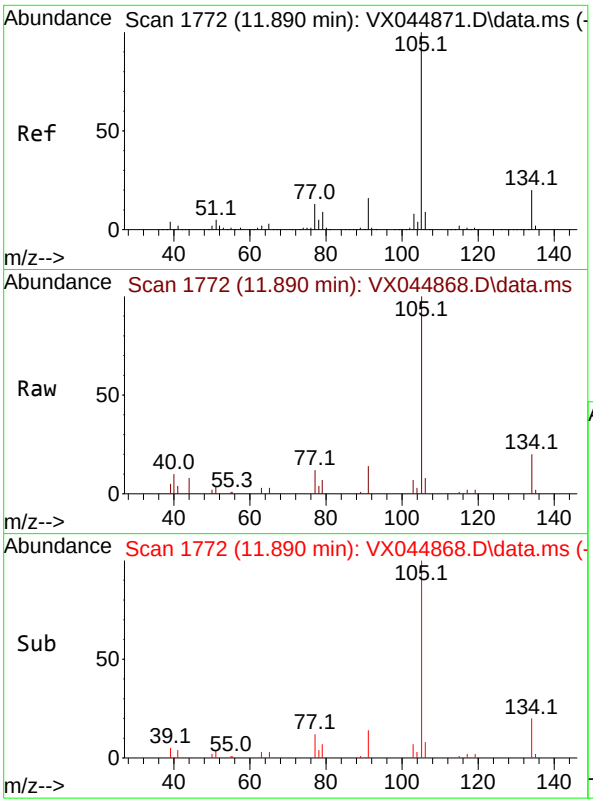


#84
1,2,4-Trimethylbenzene
Concen: 0.833 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 4876

Ion	Ratio	Lower	Upper
105	100		
120	52.4	22.4	67.0



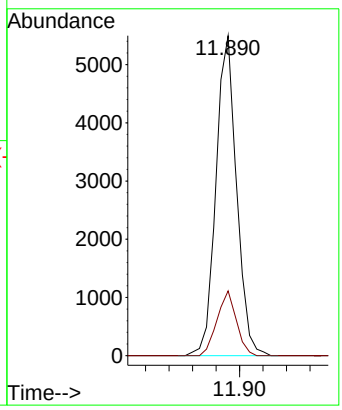


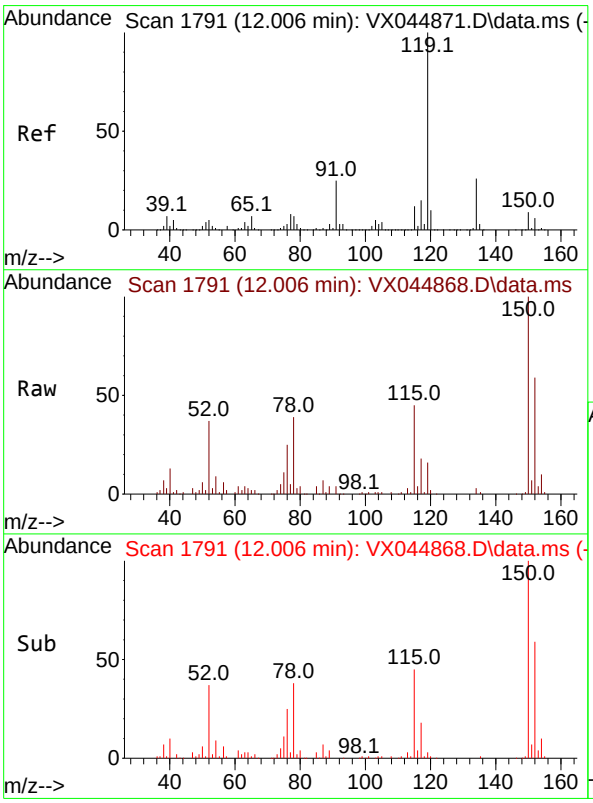
#85
sec-Butylbenzene
Concen: 0.902 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6700

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3

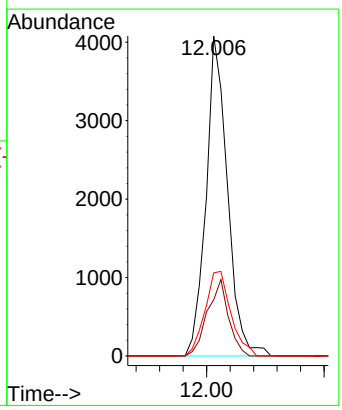


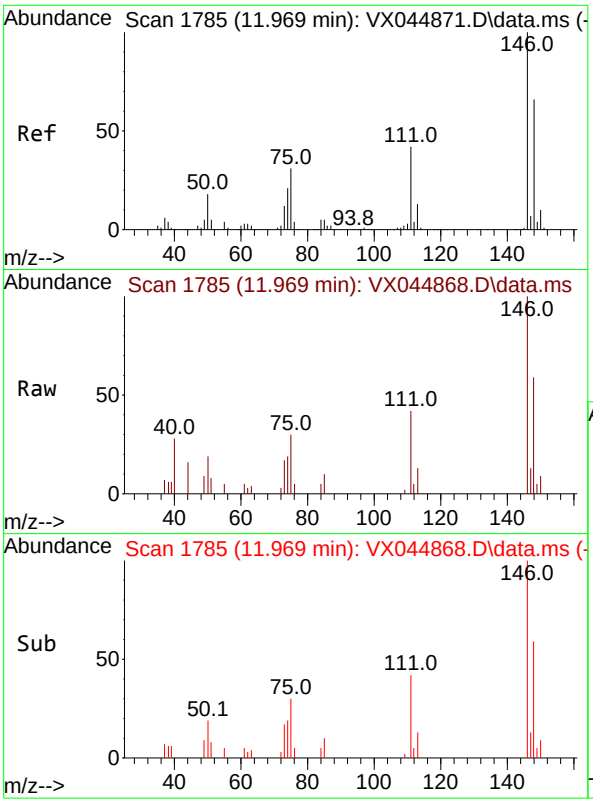


#86
p-Isopropyltoluene
Concen: 0.864 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:119 Resp: 5161

Ion	Ratio	Lower	Upper
119	100		
134	23.4	13.0	38.9
91	32.0	12.1	36.3



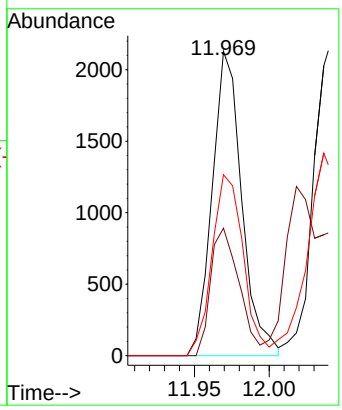


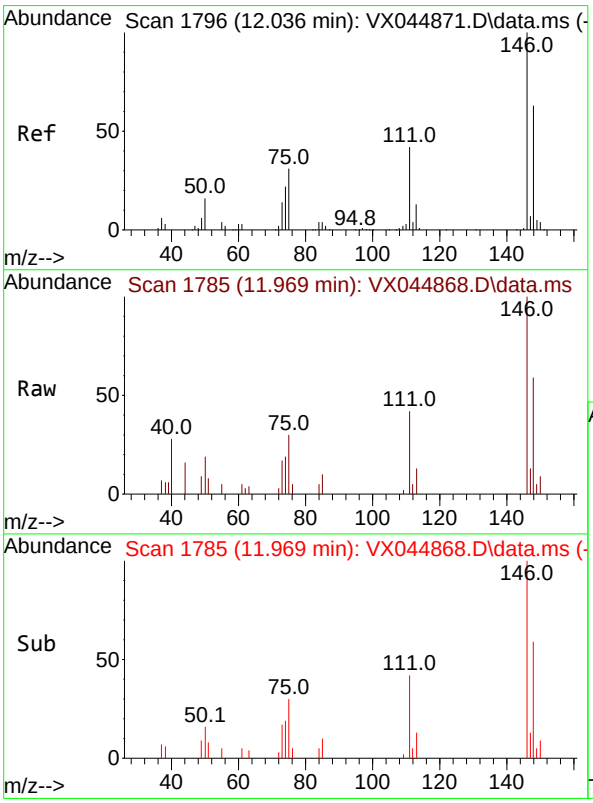
#87
1,3-Dichlorobenzene
Concen: 0.963 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 2933

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.2	63.6
148	62.8	32.5	97.5

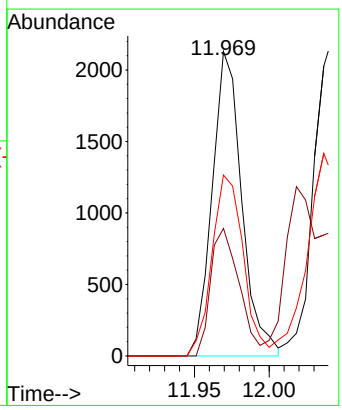


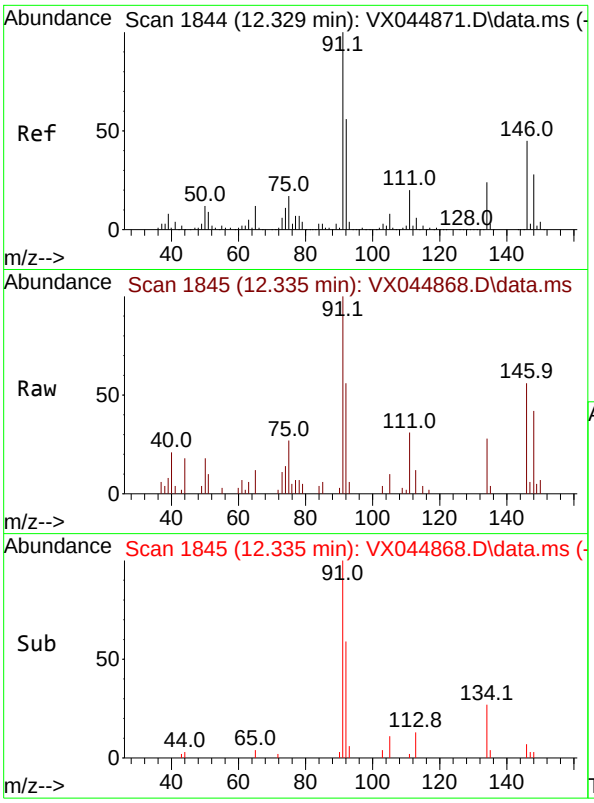


#88
1,4-Dichlorobenzene
Concen: 0.952 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.067 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:146 Resp: 2933

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.4	61.3
148	62.8	32.0	96.0



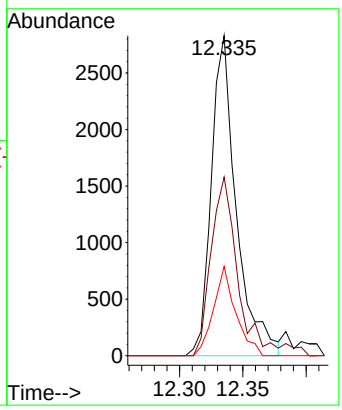


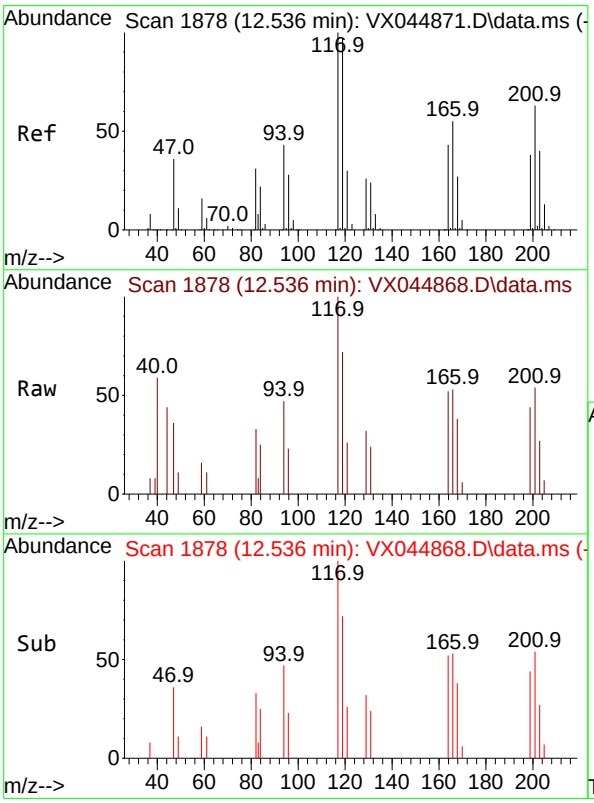
#89
n-Butylbenzene
Concen: 0.734 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 3880

Ion	Ratio	Lower	Upper
91	100		
92	60.9	27.2	81.6
134	24.8	12.1	36.3

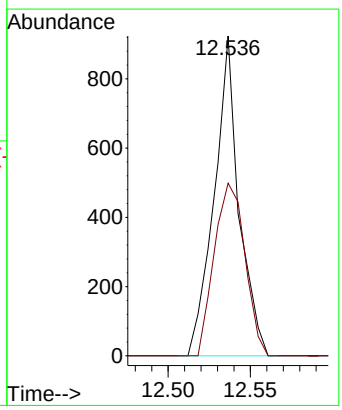


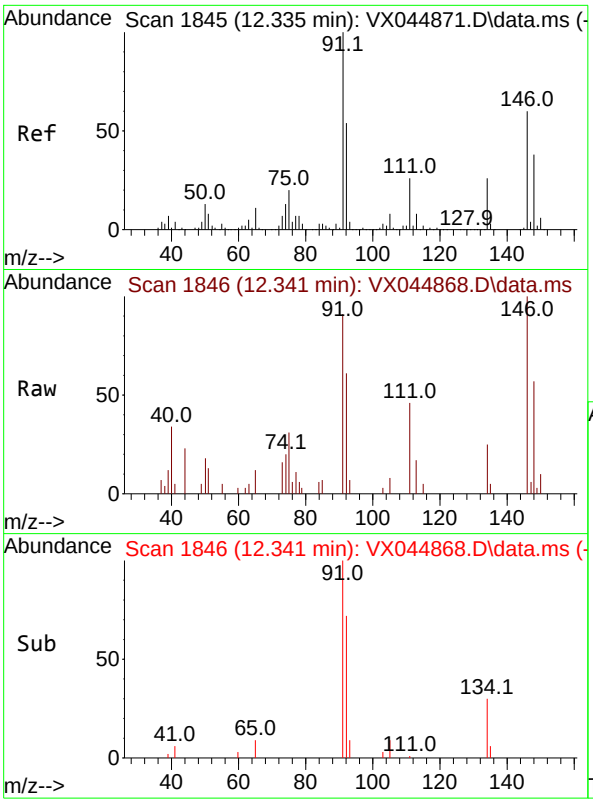


#90
Hexachloroethane
Concen: 0.866 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 968

Ion	Ratio	Lower	Upper
117	100		
201	66.8	32.5	97.5



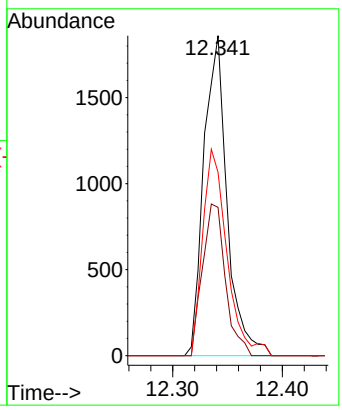


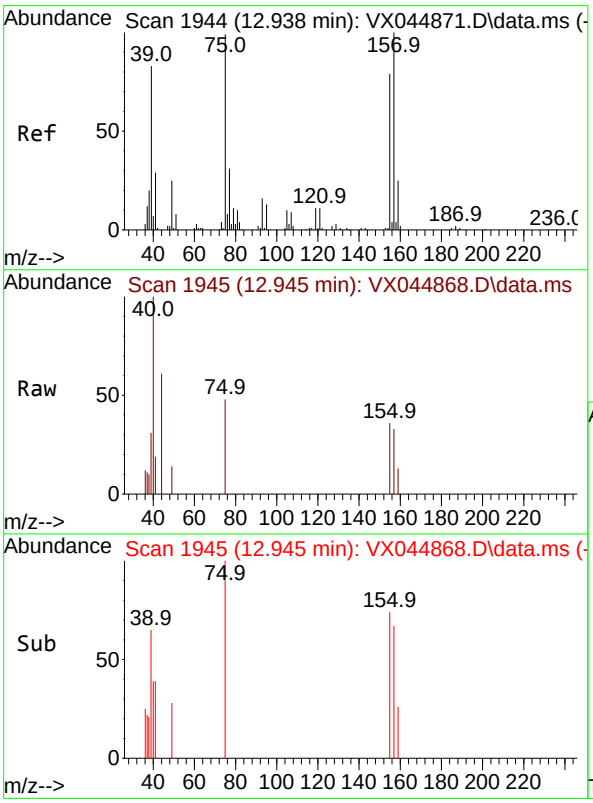
#91
1,2-Dichlorobenzene
Concen: 0.917 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 2744

Ion	Ratio	Lower	Upper
146	100		
111	46.7	21.8	65.4
148	67.2	31.9	95.9

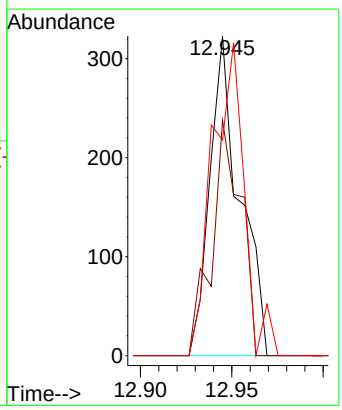


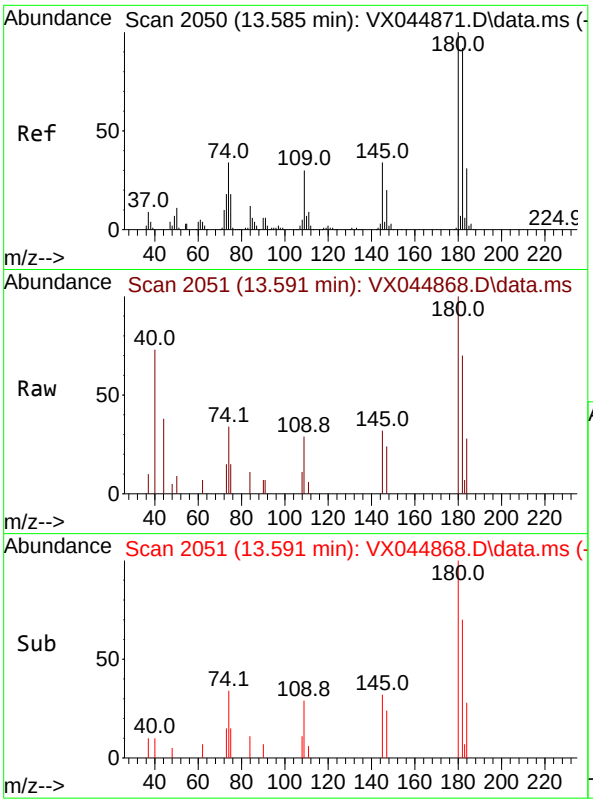


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.801 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 367

Ion	Ratio	Lower	Upper
75	100		
155	71.7	40.5	121.4
157	104.1	51.4	154.3



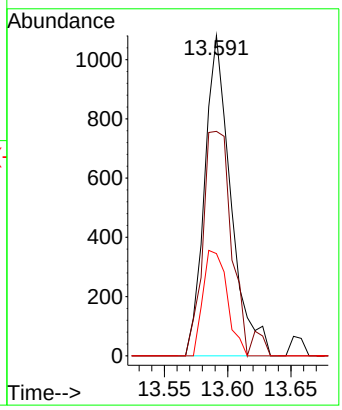


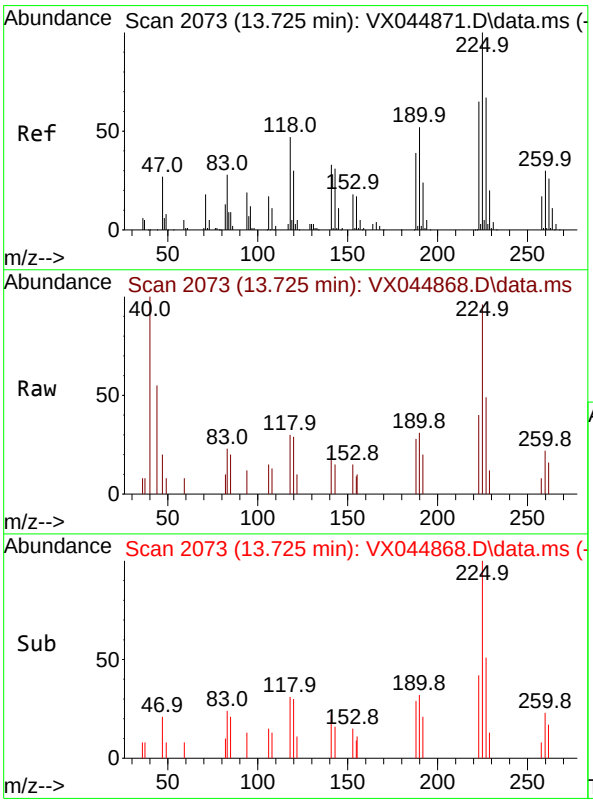
#93
1,2,4-Trichlorobenzene
Concen: 0.861 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 1560

Ion	Ratio	Lower	Upper
180	100		
182	78.7	47.6	142.8
145	30.4	16.4	49.1

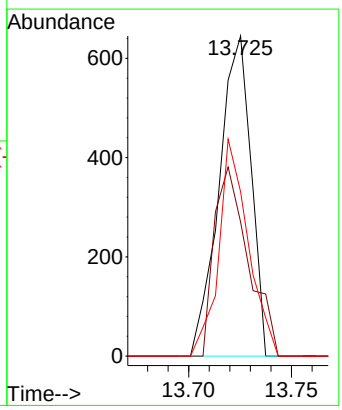


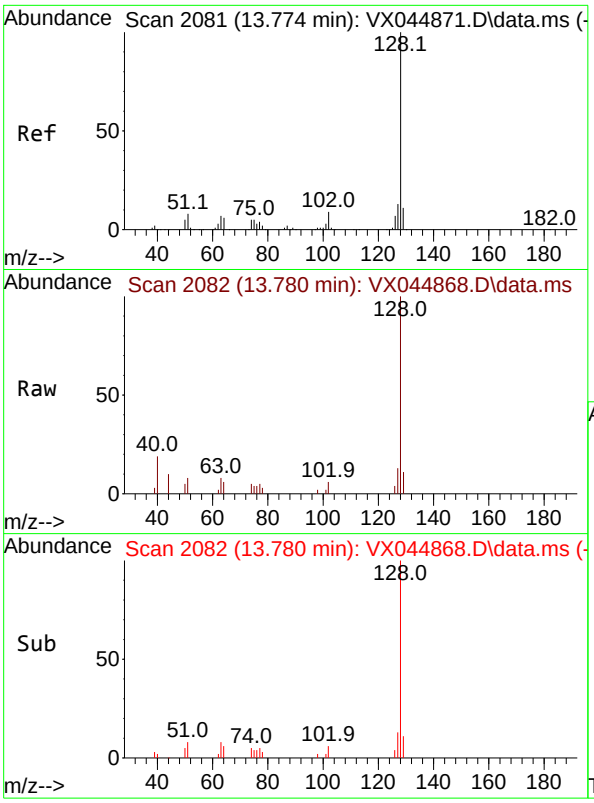


#94
Hexachlorobutadiene
Concen: 0.966 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:225 Resp: 695

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.4	94.2
227	62.6	32.3	96.8



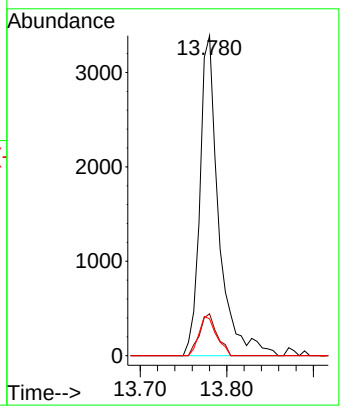


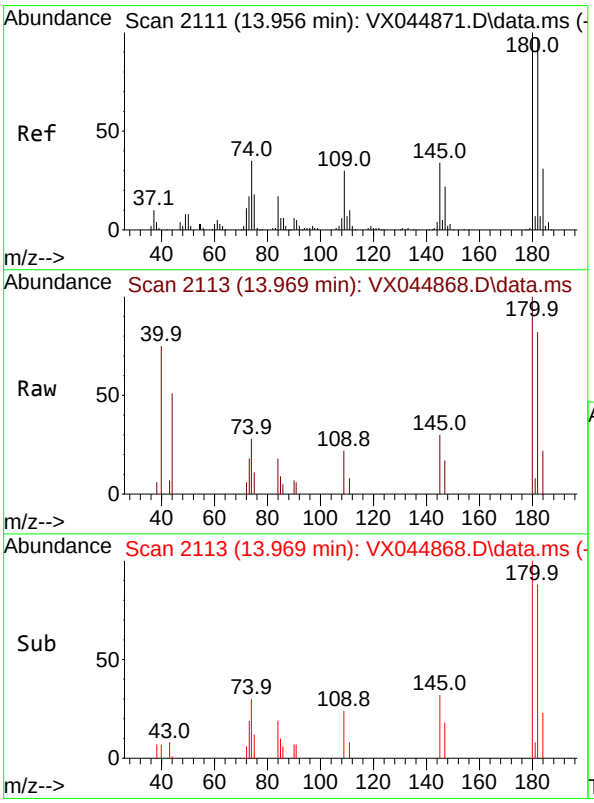
#95
Naphthalene
Concen: 0.783 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 5125

Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.1	15.1
129	11.3	8.9	13.3

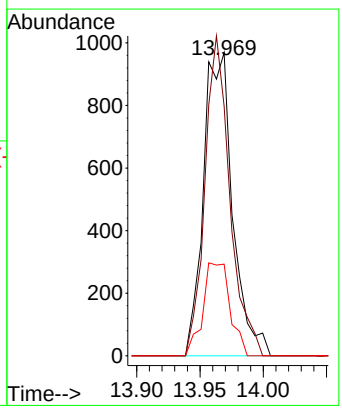




#96
1,2,3-Trichlorobenzene
Concen: 0.853 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:180 Resp: 1557

Ion	Ratio	Lower	Upper
180	100		
182	90.0	47.9	143.6
145	28.5	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 11 01:59:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	136105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	253314	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95494	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	10397	5.219	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.440%#		
35) Dibromofluoromethane	5.385	113	8482	5.150	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.300%#		
50) Toluene-d8	8.647	98	31381	5.039	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.080%#		
62) 4-Bromofluorobenzene	11.079	95	10229	4.872	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.740%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	9109	4.772	ug/l	94
3) Chloromethane	1.301	50	11711	5.041	ug/l	97
4) Vinyl Chloride	1.374	62	11509	5.113	ug/l	94
5) Bromomethane	1.593	94	3371	5.005	ug/l	89
6) Chloroethane	1.660	64	4436	5.565	ug/l	99
7) Trichlorofluoromethane	1.868	101	14506	5.096	ug/l	100
8) Diethyl Ether	2.136	74	5062	4.904	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	8805	5.120	ug/l	98
10) Methyl Iodide	2.447	142	10233	4.591	ug/l	99
11) Tert butyl alcohol	2.983	59	10044	27.175	ug/l	100
12) 1,1-Dichloroethene	2.307	96	8692	4.955	ug/l	95
13) Acrolein	2.239	56	9750	25.567	ug/l	98
14) Allyl chloride	2.660	41	15649	4.936	ug/l	98
15) Acrylonitrile	3.062	53	24101	24.422	ug/l	98
16) Acetone	2.386	43	19877	24.817	ug/l	99
17) Carbon Disulfide	2.502	76	23568	4.899	ug/l	98
18) Methyl Acetate	2.703	43	12257	4.850	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	28100	5.034	ug/l	99
20) Methylene Chloride	2.782	84	9757	4.973	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	8470	4.906	ug/l	94
22) Diisopropyl ether	3.757	45	29768	4.963	ug/l #	80
23) Vinyl Acetate	3.721	43	119108	24.358	ug/l	98
24) 1,1-Dichloroethane	3.605	63	17113	5.099	ug/l	98
25) 2-Butanone	4.568	43	32121	24.698	ug/l	98
26) 2,2-Dichloropropane	4.459	77	13365	5.022	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	10662	5.141	ug/l	95
28) Bromochloromethane	4.898	49	7881	4.886	ug/l #	96
29) Tetrahydrofuran	5.013	42	21097	24.429	ug/l	98
30) Chloroform	5.087	83	16449	5.054	ug/l	98
31) Cyclohexane	5.464	56	15705	5.076	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	13658	4.947	ug/l	98
36) 1,1-Dichloropropene	5.684	75	11835	4.981	ug/l	98
37) Ethyl Acetate	4.721	43	13530	5.119	ug/l	99
38) Carbon Tetrachloride	5.672	117	11797	5.066	ug/l	97
39) Methylcyclohexane	7.373	83	14472	4.711	ug/l	96
40) Benzene	6.038	78	37687	5.079	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 11 01:59:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	6648	4.699	ug/l		96
42) 1,2-Dichloroethane	6.086	62	11789	4.985	ug/l		100
43) Isopropyl Acetate	6.342	43	19803	4.640	ug/l		99
44) Trichloroethene	7.123	130	8614	5.079	ug/l		95
45) 1,2-Dichloropropane	7.428	63	8976	4.863	ug/l		98
46) Dibromomethane	7.586	93	6210	4.851	ug/l		95
47) Bromodichloromethane	7.818	83	12173	4.911	ug/l		94
48) Methyl methacrylate	7.702	41	9298	4.620	ug/l		98
49) 1,4-Dioxane	7.678	88	4365	101.099	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	65064	25.076	ug/l		100
52) Toluene	8.720	92	22090	4.999	ug/l		96
53) t-1,3-Dichloropropene	8.976	75	11413	4.550	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	12943	4.628	ug/l	#	88
55) 1,1,2-Trichloroethane	9.153	97	8662	5.099	ug/l		98
56) Ethyl methacrylate	9.116	69	12351	4.502	ug/l		96
57) 1,3-Dichloropropane	9.305	76	14839	4.993	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	31498	23.382	ug/l		99
59) 2-Hexanone	9.433	43	45538	24.359	ug/l		99
60) Dibromochloromethane	9.519	129	8668	4.771	ug/l		99
61) 1,2-Dibromoethane	9.610	107	8353	4.852	ug/l		96
64) Tetrachloroethene	9.269	164	6803	4.934	ug/l		95
65) Chlorobenzene	10.079	112	23903	5.090	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	7380	4.883	ug/l		97
67) Ethyl Benzene	10.189	91	40945	4.941	ug/l		97
68) m/p-Xylenes	10.299	106	30627	10.019	ug/l		100
69) o-Xylene	10.640	106	15761	5.139	ug/l		98
70) Styrene	10.653	104	24576	4.973	ug/l		99
71) Bromoform	10.799	173	5391	4.779	ug/l	#	97
73) Isopropylbenzene	10.957	105	38315	4.983	ug/l		100
74) N-amyl acetate	10.842	43	16653	4.786	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	13394	5.069	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	13757	6.498	ug/l		87
77) Bromobenzene	11.195	156	8789	5.042	ug/l		97
78) n-propylbenzene	11.305	91	43923	4.949	ug/l		99
79) 2-Chlorotoluene	11.360	91	27311	5.007	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	31761	5.090	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	3303	4.013	ug/l		87
82) 4-Chlorotoluene	11.451	91	30138	4.994	ug/l		99
83) tert-Butylbenzene	11.713	119	31992	5.068	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	31053	5.042	ug/l		98
85) sec-Butylbenzene	11.890	105	38437	4.917	ug/l		98
86) p-Isopropyltoluene	12.006	119	30835	4.905	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	15935	4.971	ug/l		95
88) 1,4-Dichlorobenzene	12.036	146	16347	5.043	ug/l		95
89) n-Butylbenzene	12.329	91	25747	4.630	ug/l		97
90) Hexachloroethane	12.536	117	5620	4.775	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	16362	5.193	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2254	4.674	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	8923	4.680	ug/l		99
94) Hexachlorobutadiene	13.719	225	3595	4.750	ug/l		99
95) Naphthalene	13.774	128	32776	4.756	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	9093	4.733	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 11 01:59:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

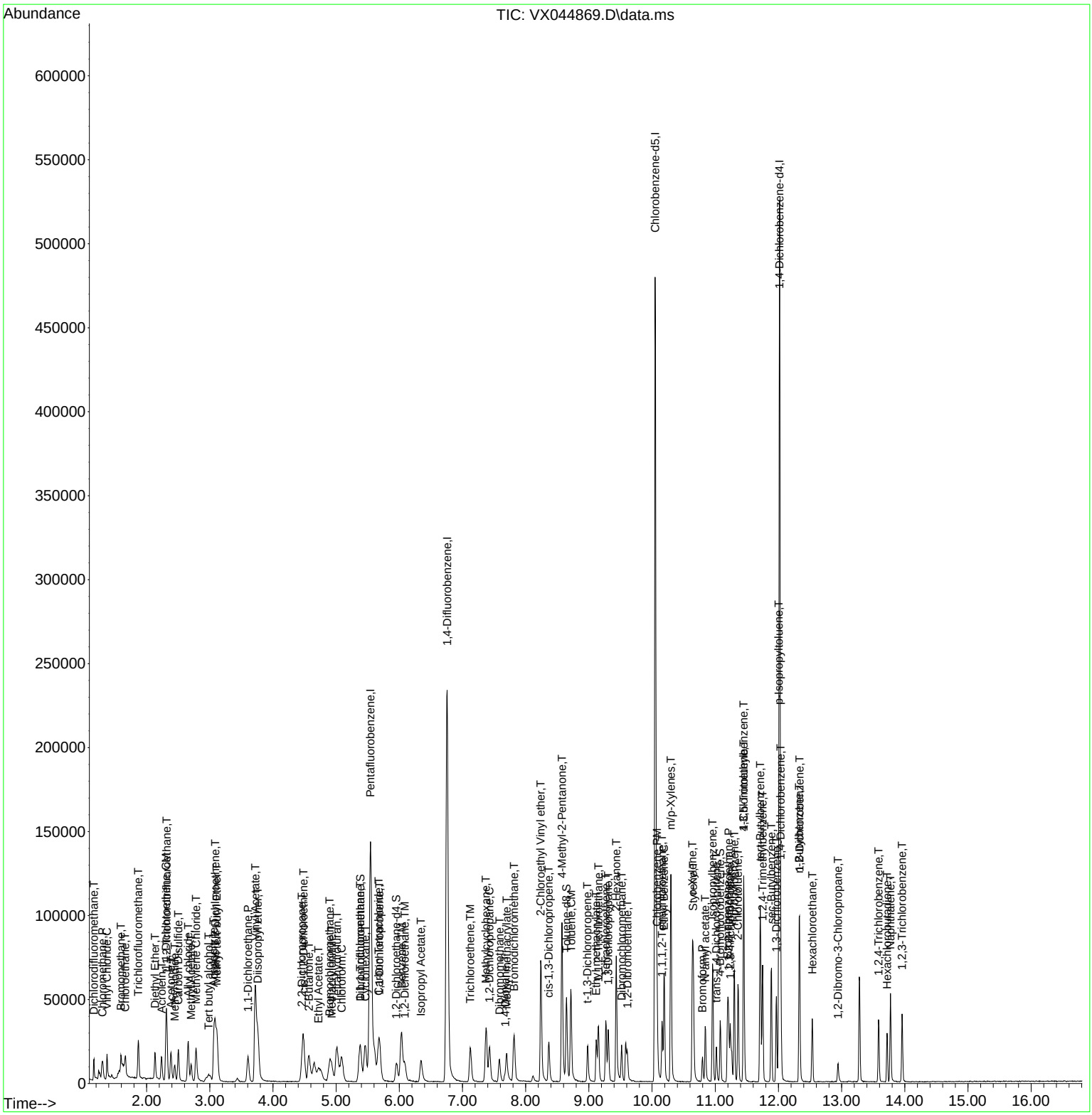
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

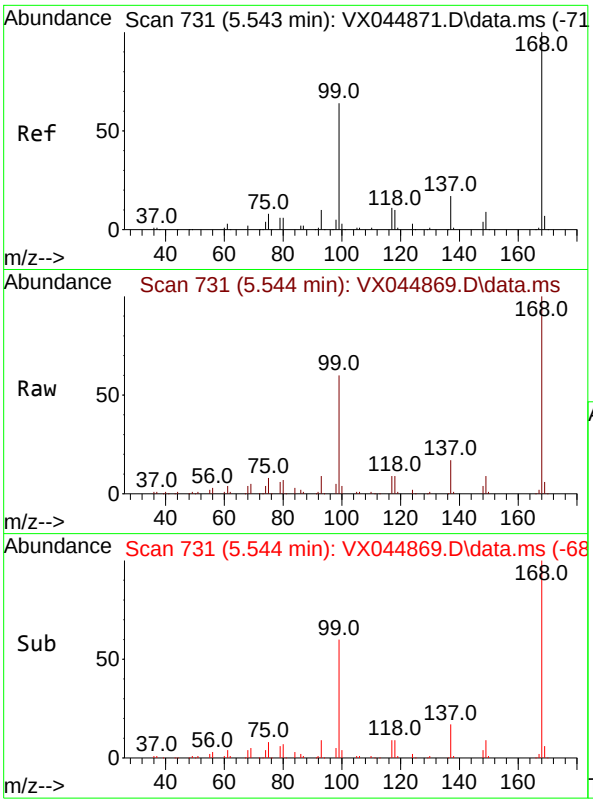
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 11 01:59:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



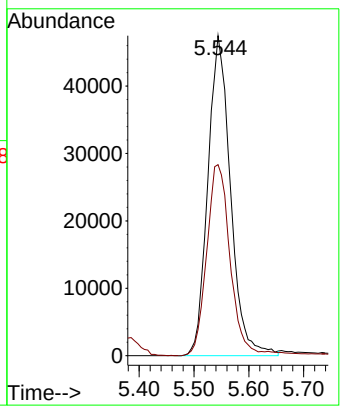


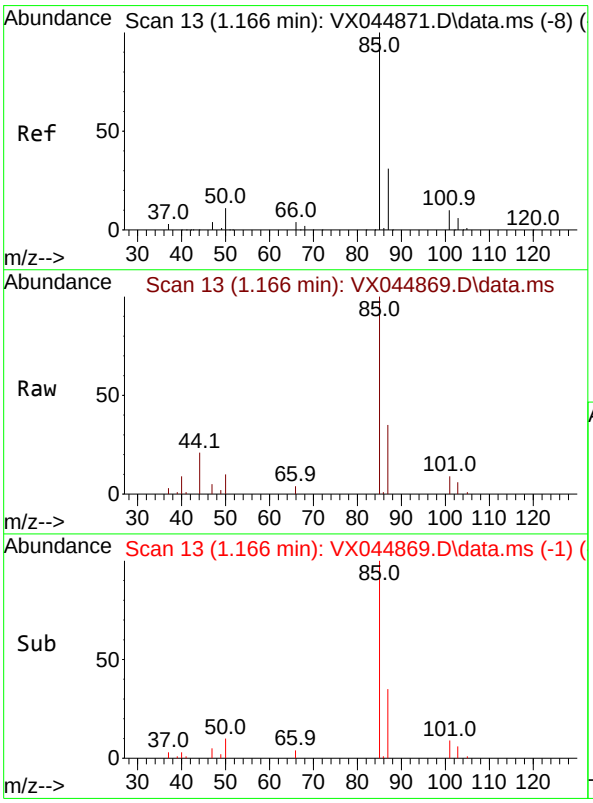
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 136105

Ion	Ratio	Lower	Upper
168	100		
99	59.7	51.2	76.8

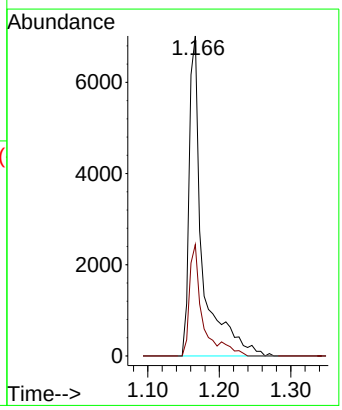


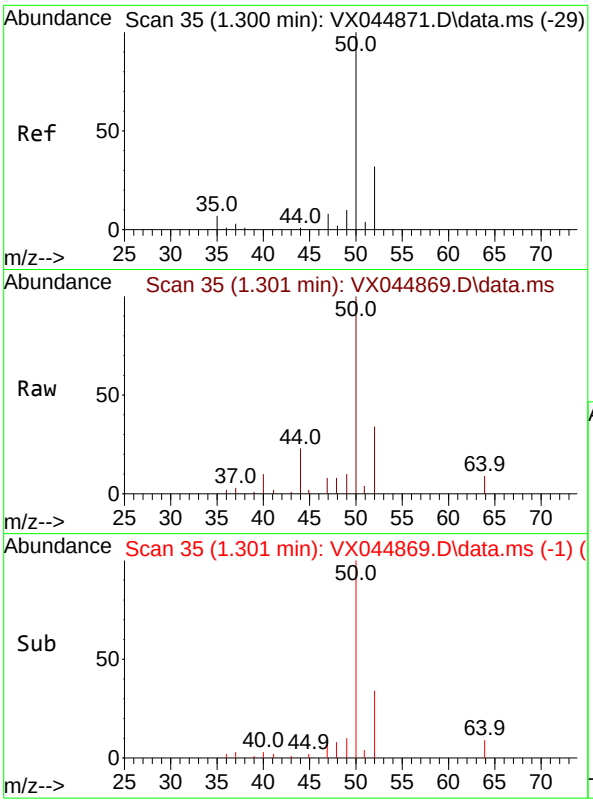


#2
Dichlorodifluoromethane
Concen: 4.772 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 85 Resp: 9109

Ion	Ratio	Lower	Upper
85	100		
87	34.8	15.8	47.3



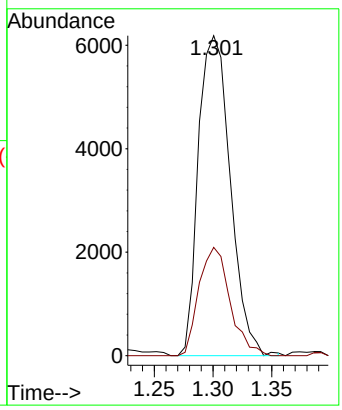


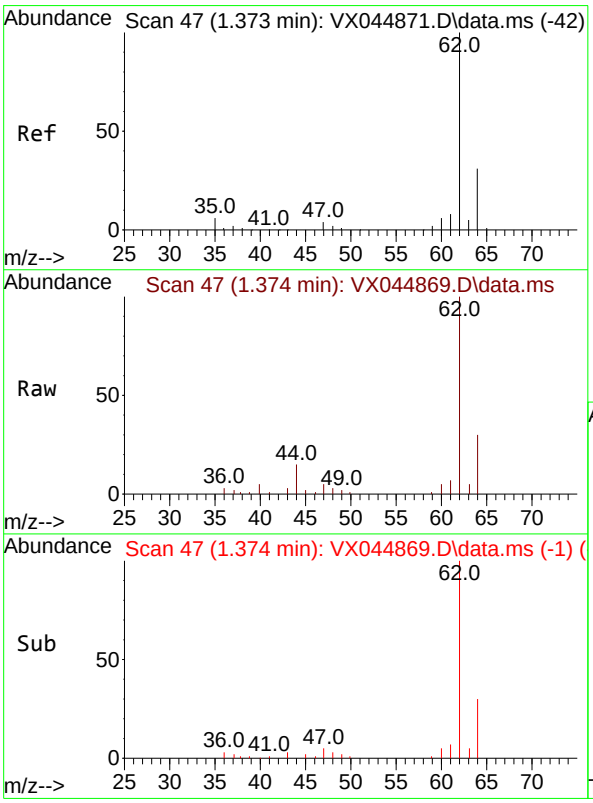
#3
Chloromethane
Concen: 5.041 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 11711

Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.9	38.9

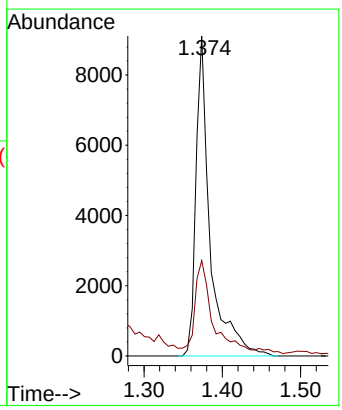


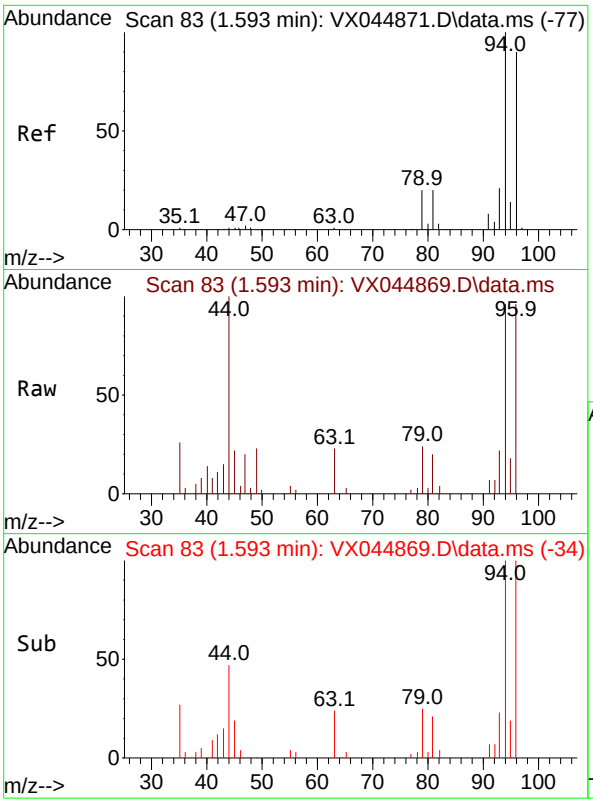


#4
Vinyl Chloride
Concen: 5.113 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11509

Ion	Ratio	Lower	Upper
62	100		
64	28.4	25.4	38.0



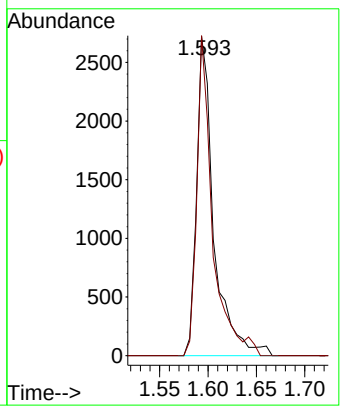


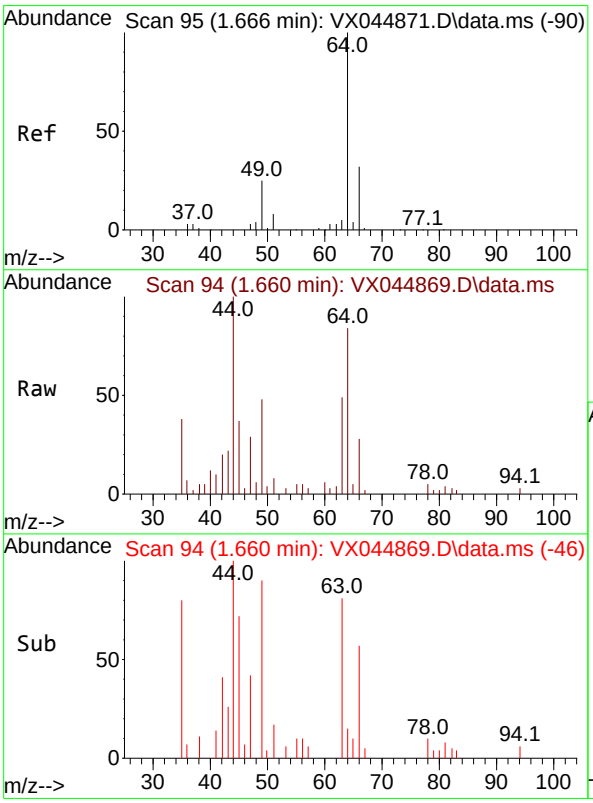
#5
Bromomethane
Concen: 5.005 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 3371

Ion	Ratio	Lower	Upper
94	100		
96	100.2	71.6	107.4

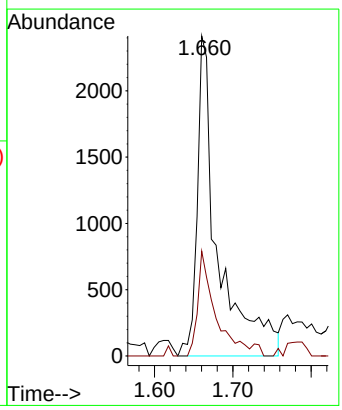


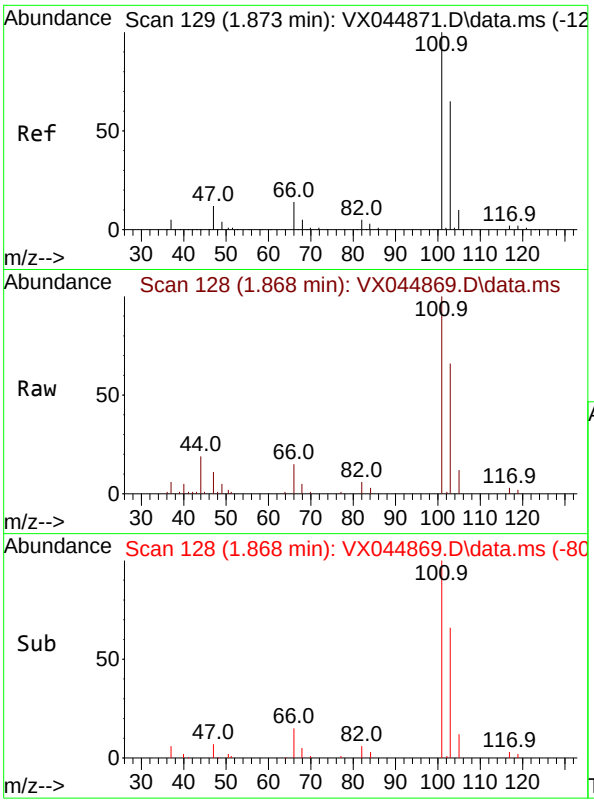


#6
Chloroethane
Concen: 5.565 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 64 Resp: 4436

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.9	38.9



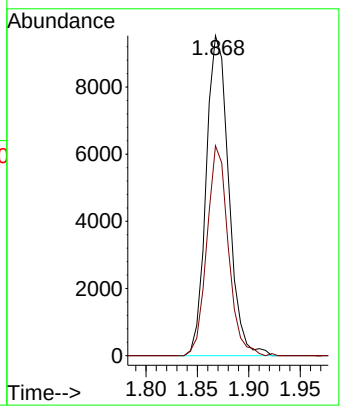


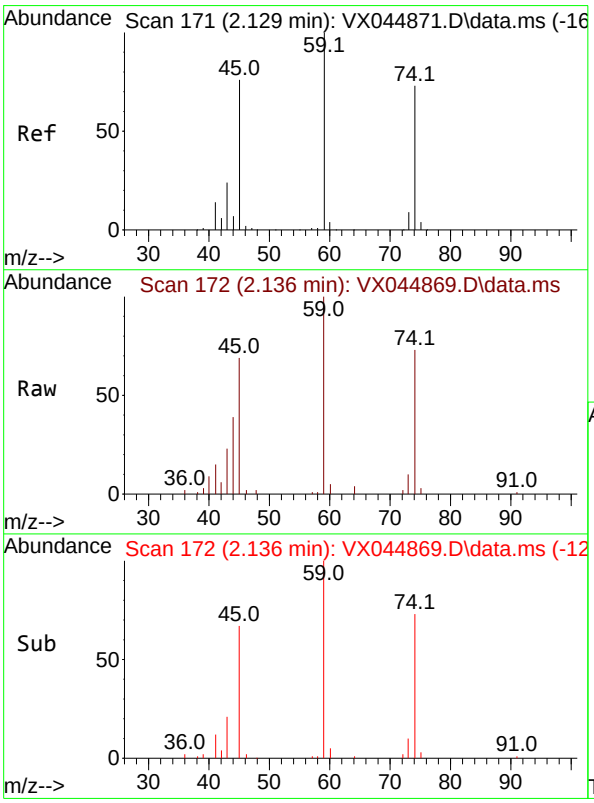
#7
Trichlorofluoromethane
Concen: 5.096 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 14506

Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.4	78.6

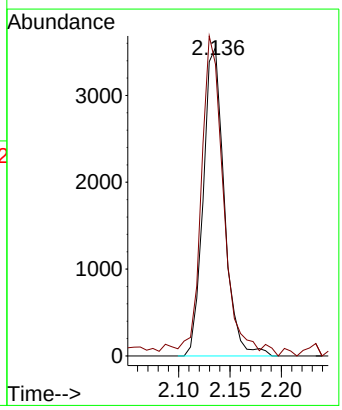


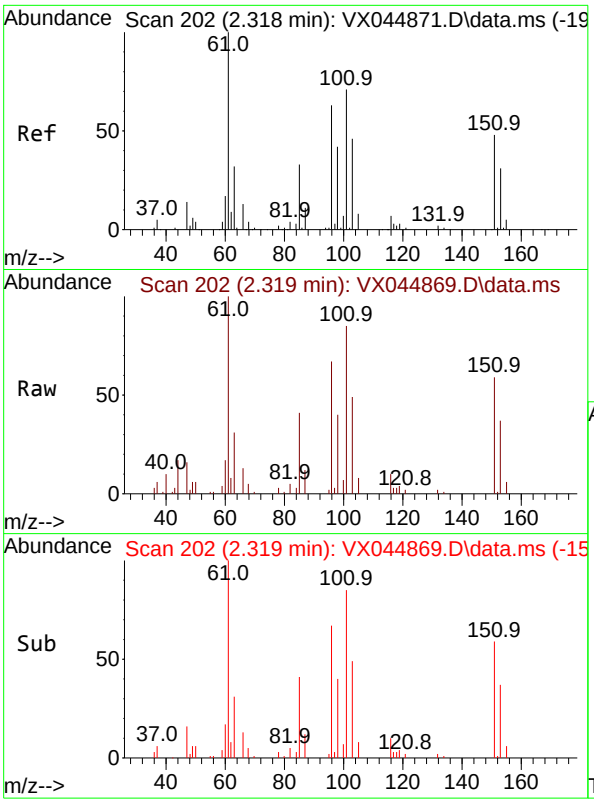


#8
Diethyl Ether
Concen: 4.904 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 74 Resp: 5062

Ion	Ratio	Lower	Upper
74	100		
45	112.2	51.1	153.4



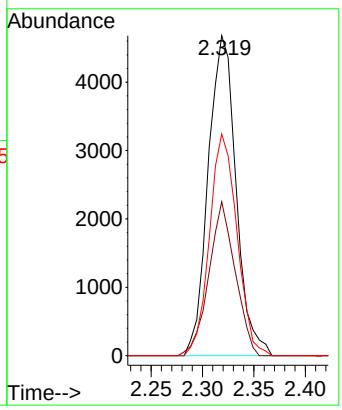


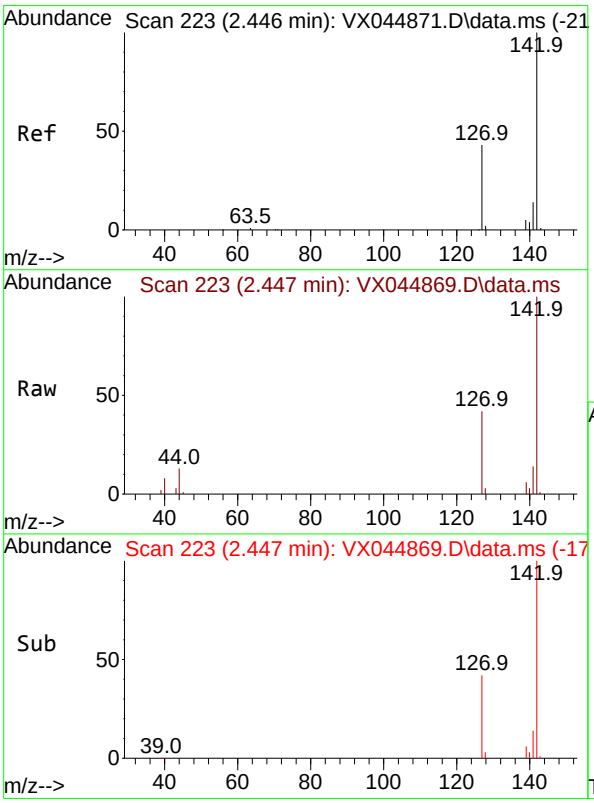
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.120 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 8805

Ion	Ratio	Lower	Upper
101	100		
85	45.5	35.7	53.5
151	68.3	56.0	84.0

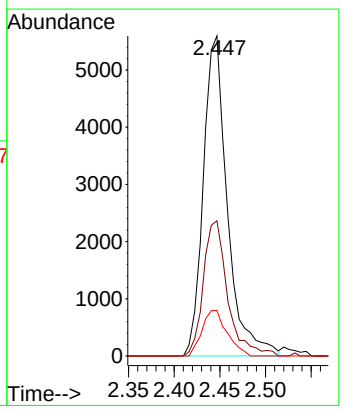


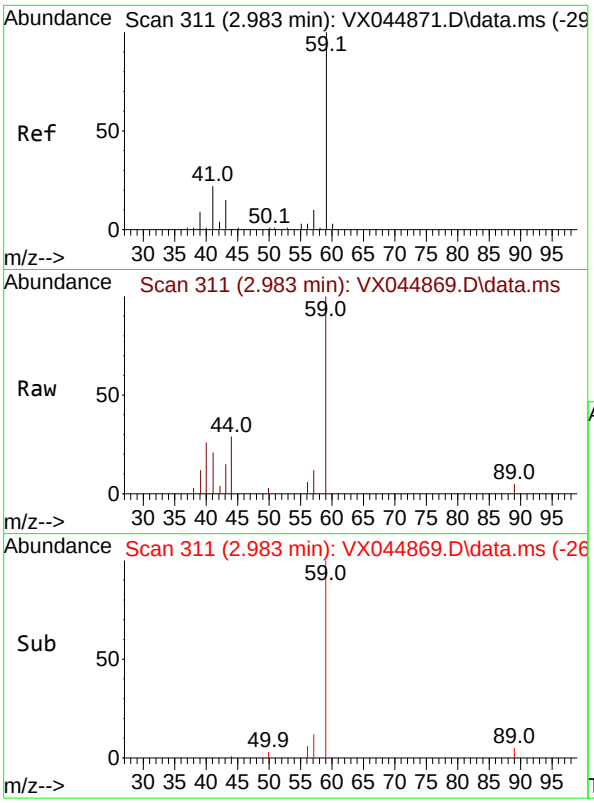


#10
Methyl Iodide
Concen: 4.591 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:142 Resp: 10233

Ion	Ratio	Lower	Upper
142	100		
127	42.7	34.3	51.5
141	14.8	11.4	17.2



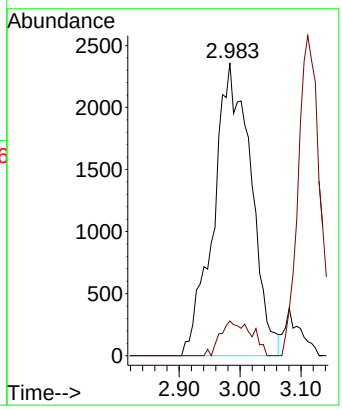


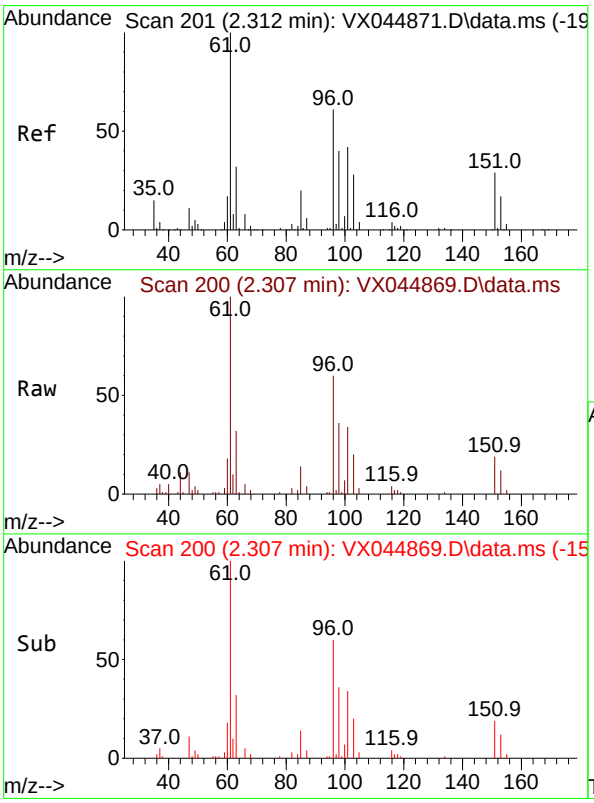
#11
Tert butyl alcohol
Concen: 27.175 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 10044

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1

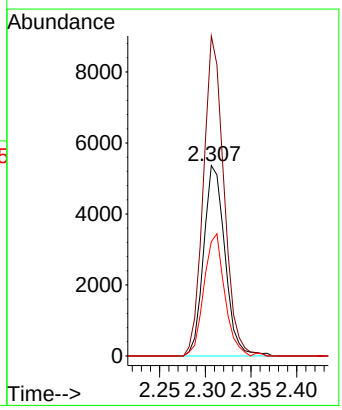


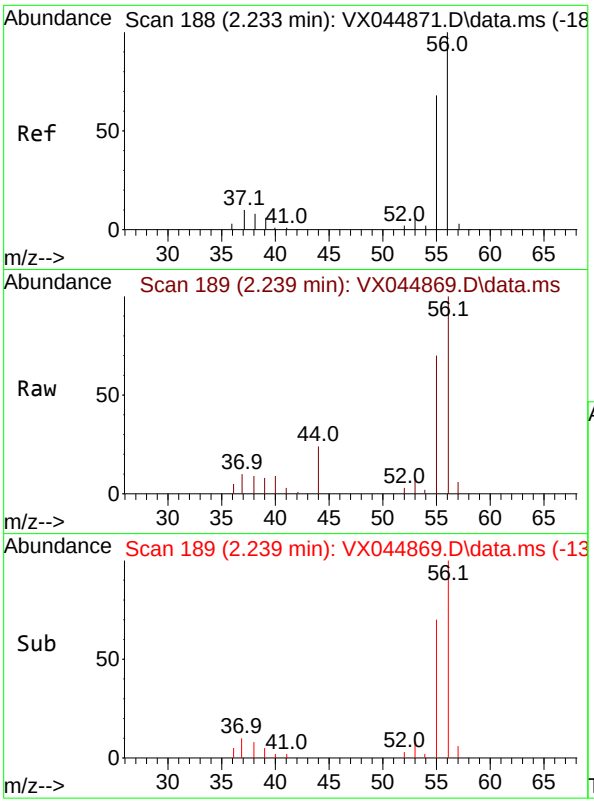


#12
1,1-Dichloroethene
Concen: 4.955 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 96 Resp: 8692

Ion	Ratio	Lower	Upper
96	100		
61	168.0	130.2	195.4
98	60.1	52.2	78.4



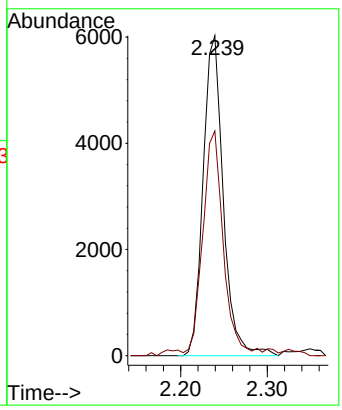


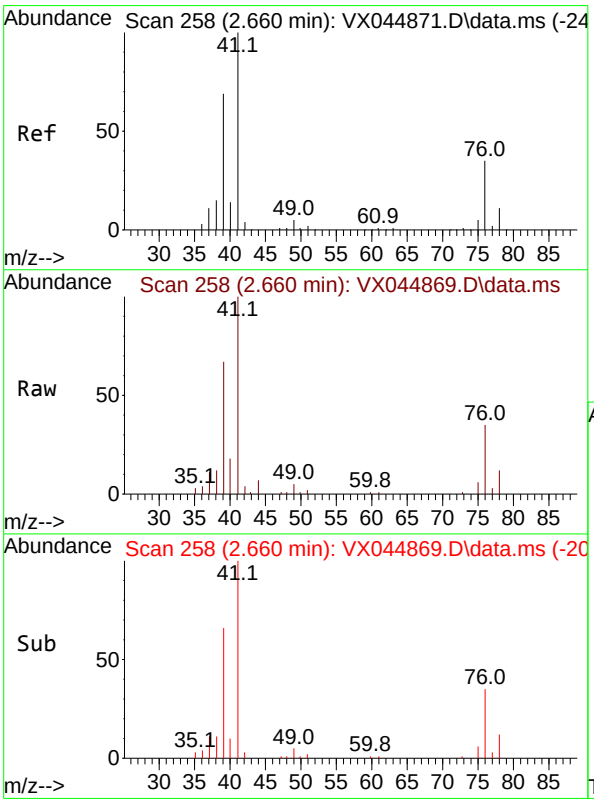
#13
Acrolein
Concen: 25.567 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 9750

Ion	Ratio	Lower	Upper
56	100		
55	71.6	55.7	83.5

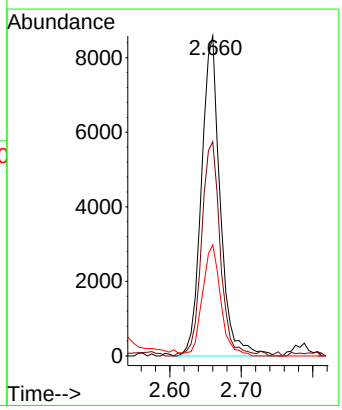


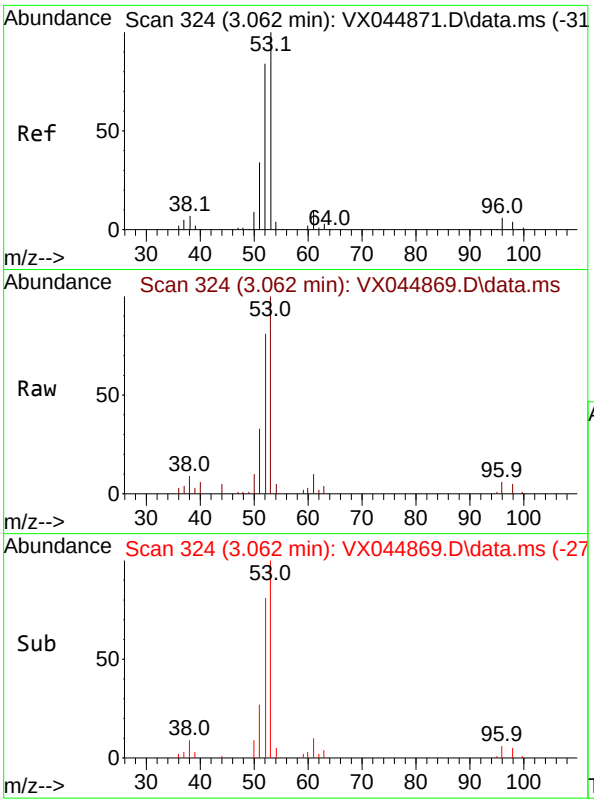


#14
Allyl chloride
Concen: 4.936 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 15649

Ion	Ratio	Lower	Upper
41	100		
39	66.7	51.4	77.2
76	33.9	27.0	40.4



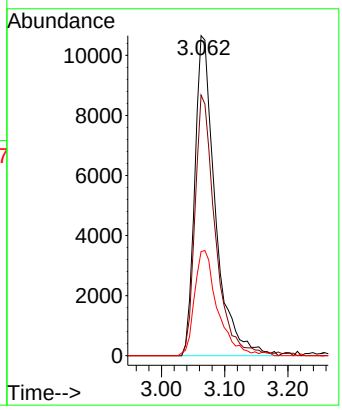


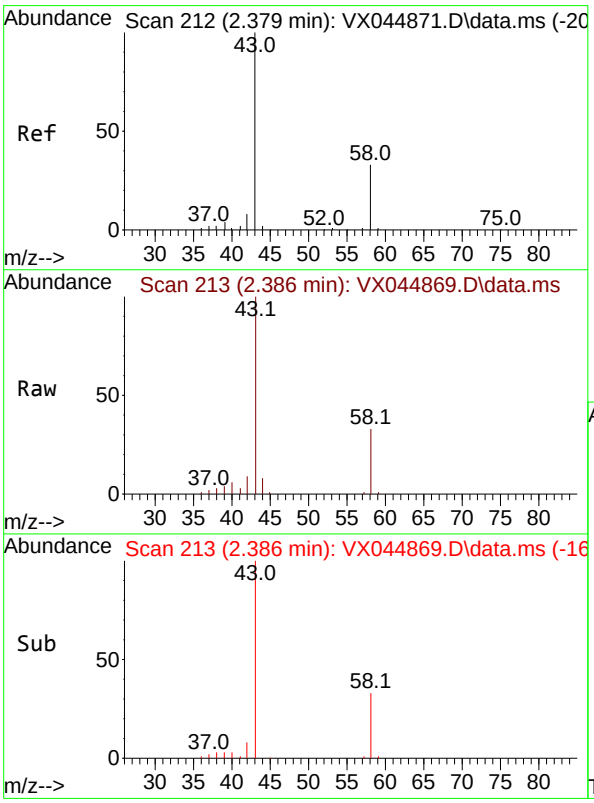
#15
Acrylonitrile
Concen: 24.422 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 24101

Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	36.6	28.0	42.0

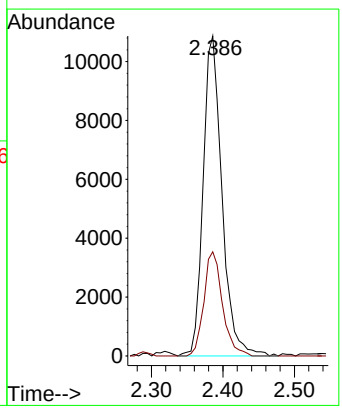


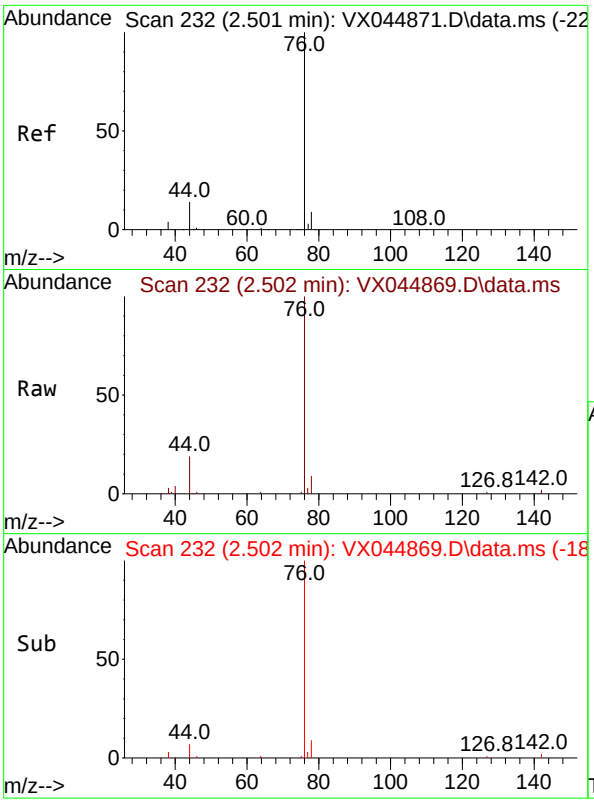


#16
Acetone
Concen: 24.817 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 19877

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7



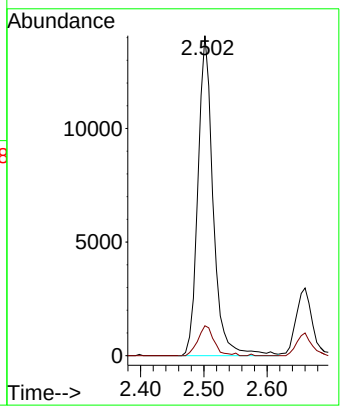


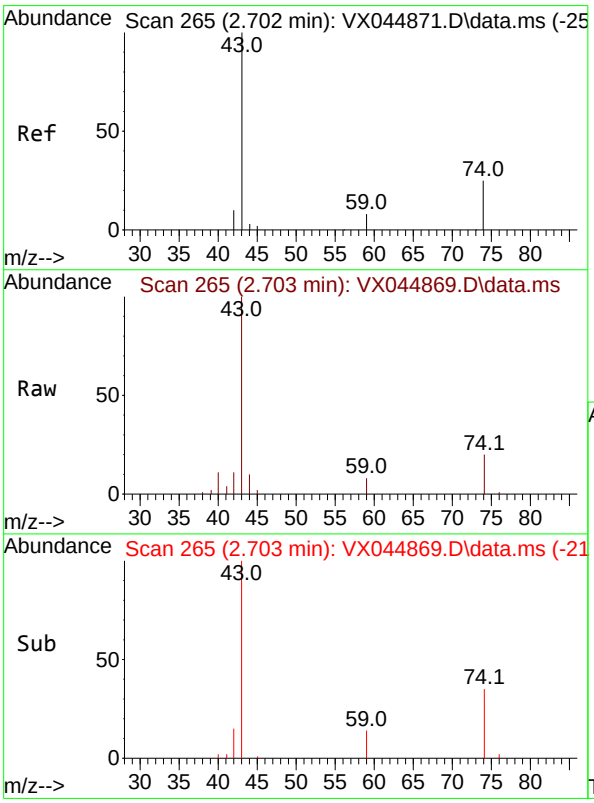
#17
Carbon Disulfide
Concen: 4.899 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 23568

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4

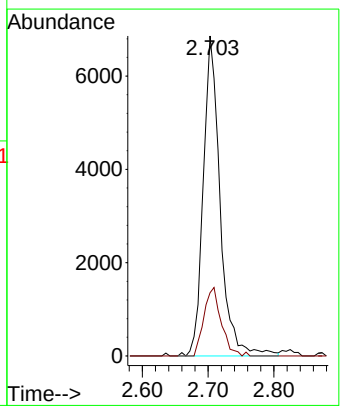


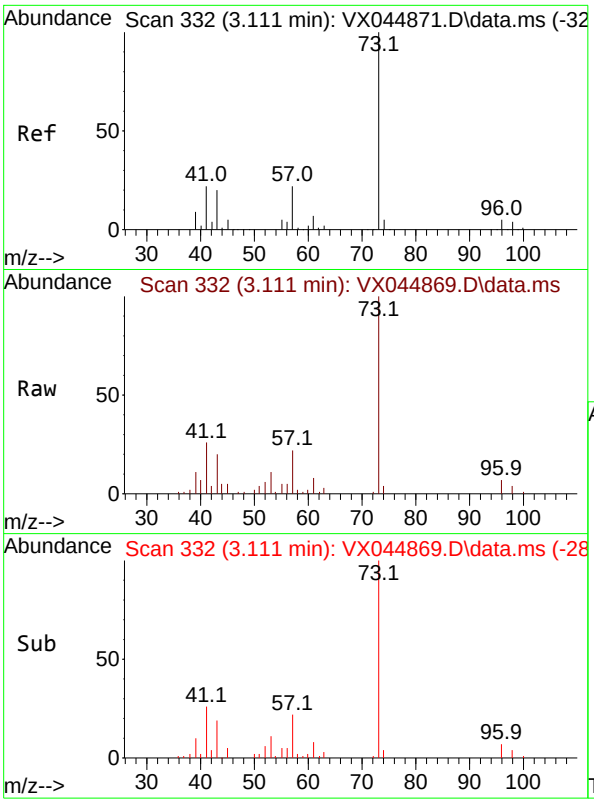


#18
Methyl Acetate
Concen: 4.850 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 12257

Ion	Ratio	Lower	Upper
43	100		
74	22.0	18.9	28.3



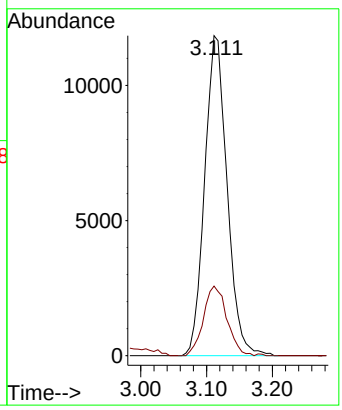


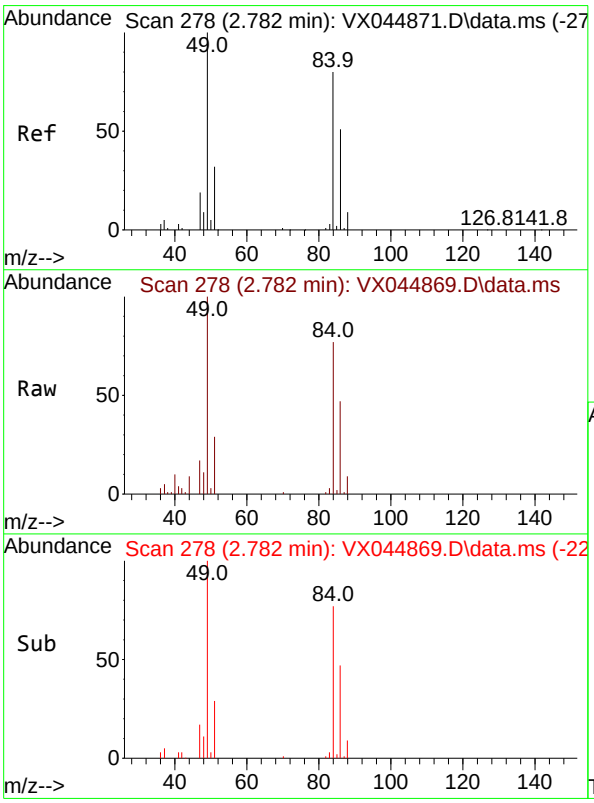
#19
Methyl tert-butyl Ether
Concen: 5.034 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 28100

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.9	26.9

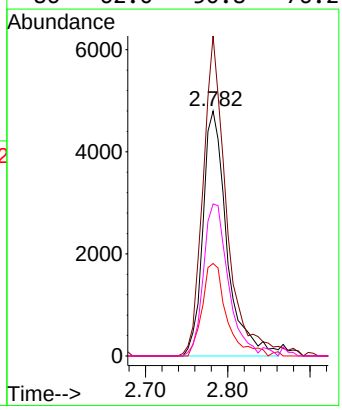


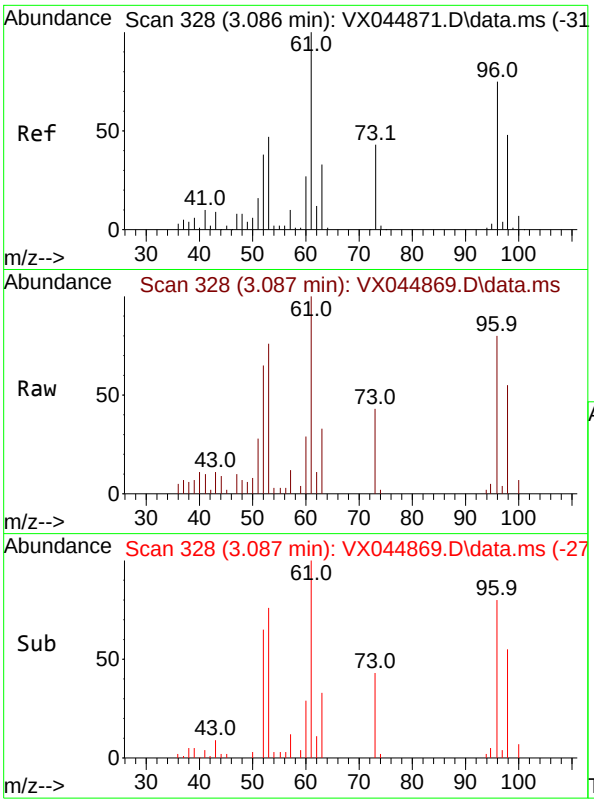


#20
Methylene Chloride
Concen: 4.973 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 84 Resp: 9757

Ion	Ratio	Lower	Upper
84	100		
49	130.7	100.1	150.1
51	37.7	31.7	47.5
86	62.0	50.8	76.2



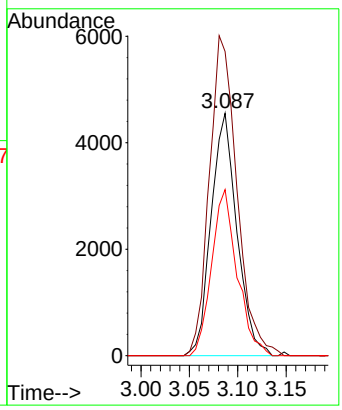


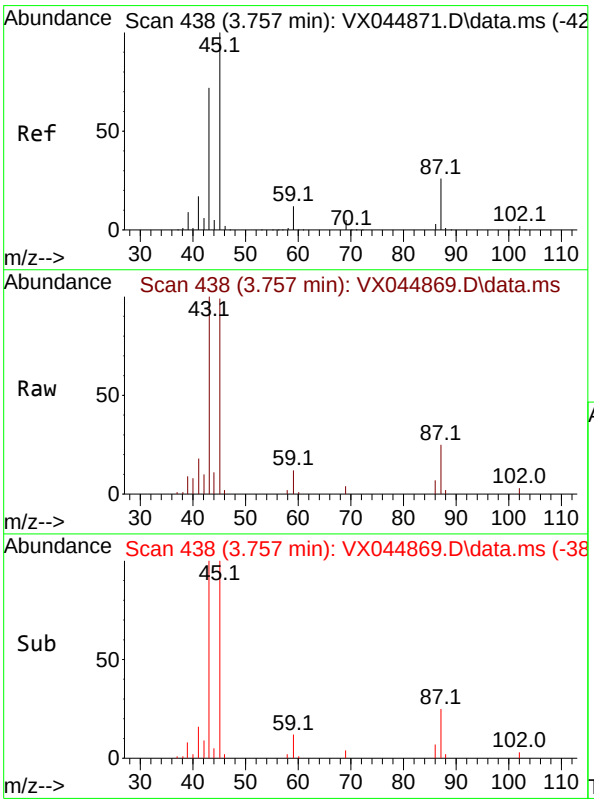
#21
trans-1,2-Dichloroethene
Concen: 4.906 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 8470

Ion	Ratio	Lower	Upper
96	100		
61	125.5	106.0	159.0
98	68.5	50.6	76.0

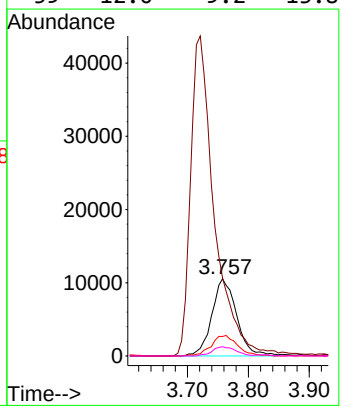


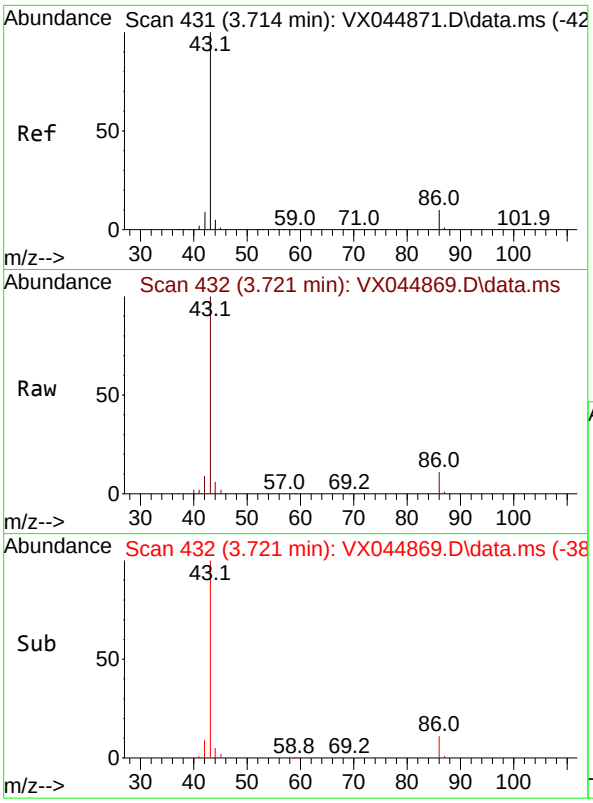


#22
Diisopropyl ether
Concen: 4.963 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 45 Resp: 29768

Ion	Ratio	Lower	Upper
45	100		
43	97.8	58.0	87.0#
87	25.2	20.7	31.1
59	12.0	9.2	13.8



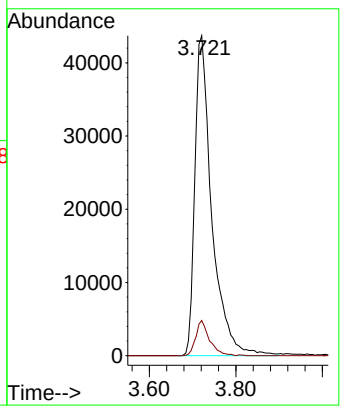


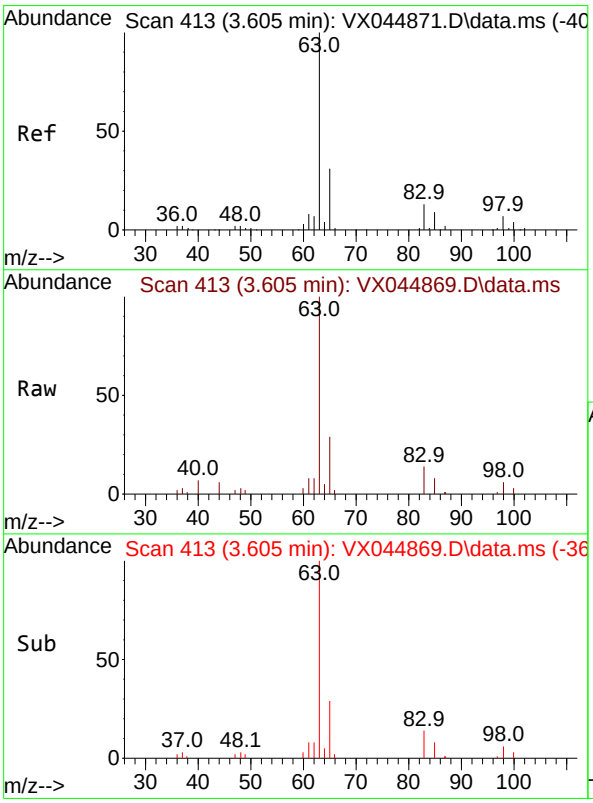
#23
Vinyl Acetate
Concen: 24.358 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 119108

Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.3	12.5

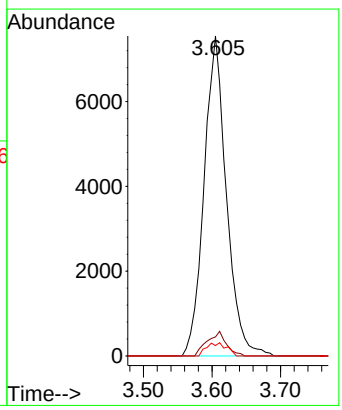


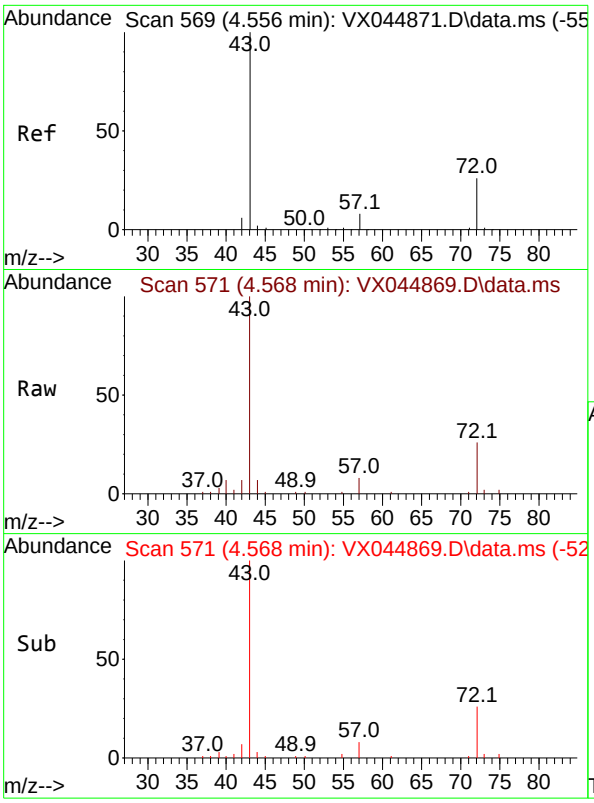


#24
1,1-Dichloroethane
Concen: 5.099 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 17113

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.3	9.9
100	3.2	2.1	6.5



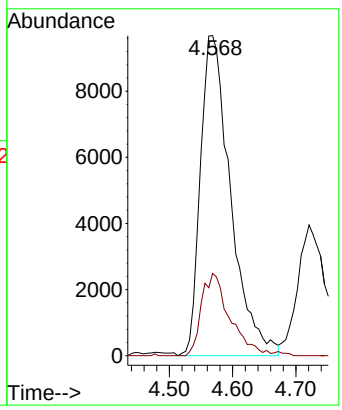


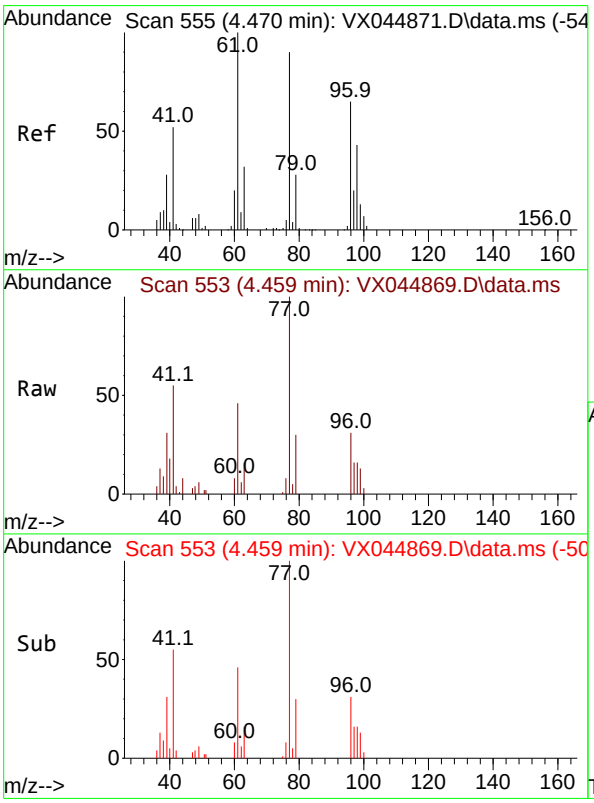
#25
2-Butanone
Concen: 24.698 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 32121

Ion	Ratio	Lower	Upper
43	100		
72	25.7	21.2	31.8

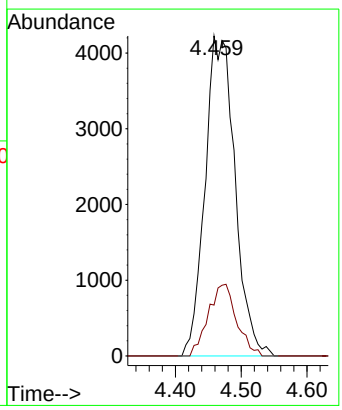


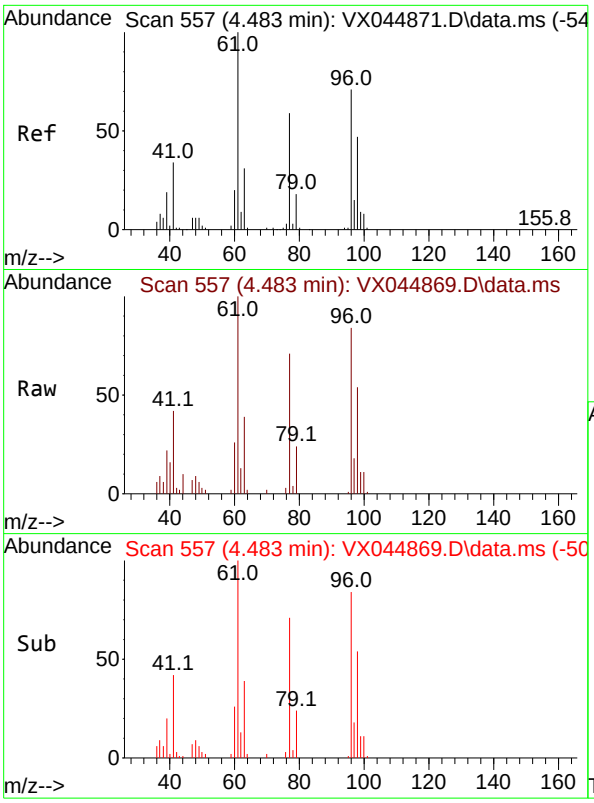


#26
2,2-Dichloropropane
Concen: 5.022 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 77 Resp: 13365

Ion	Ratio	Lower	Upper
77	100		
97	21.2	11.8	35.3



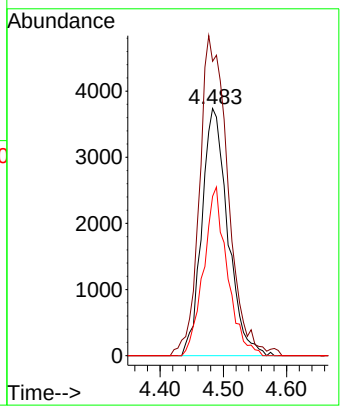


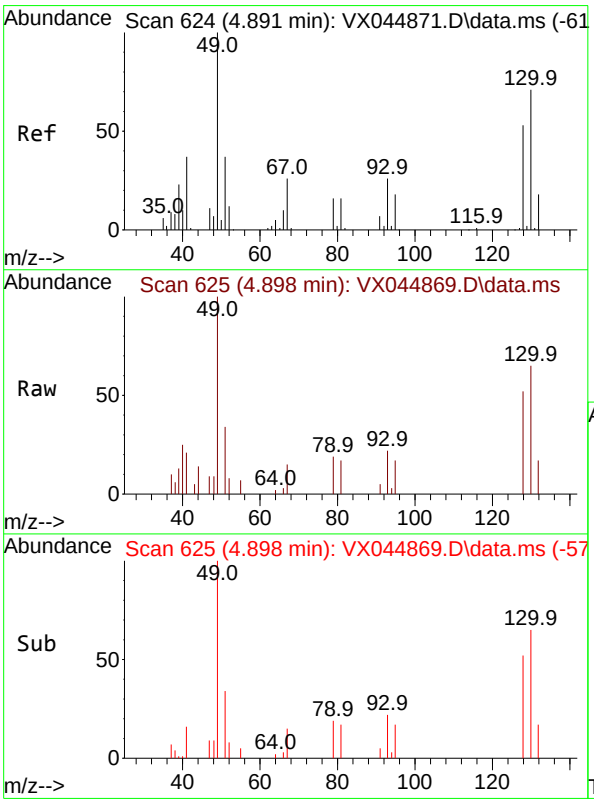
#27
cis-1,2-Dichloroethene
Concen: 5.141 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 10662

Ion	Ratio	Lower	Upper
96	100		
61	140.8	0.0	294.0
98	62.4	0.0	131.2

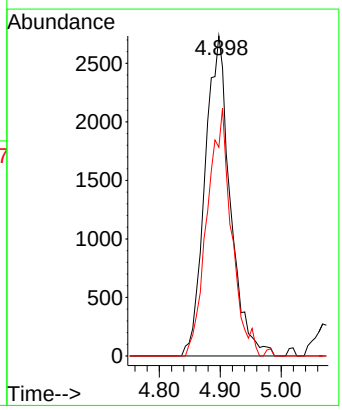


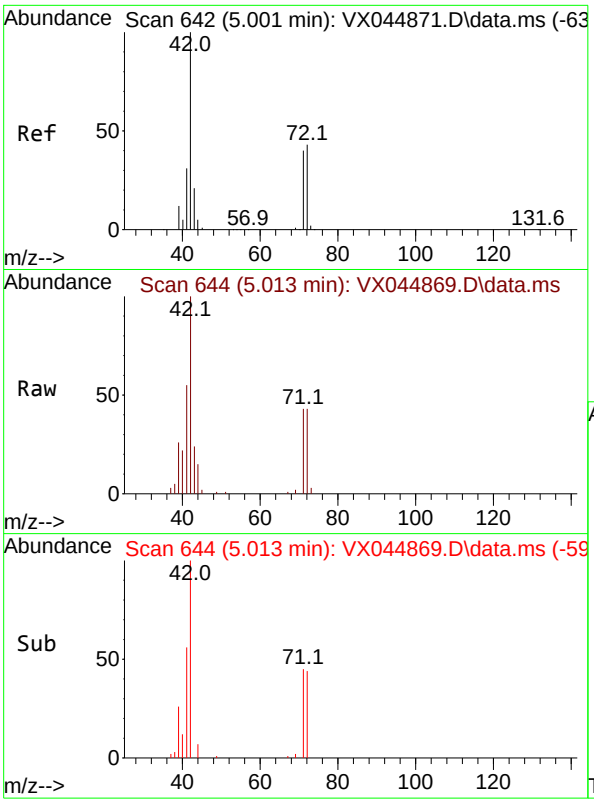


#28
Bromochloromethane
Concen: 4.886 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 49 Resp: 7881

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	74.4	56.7	85.1



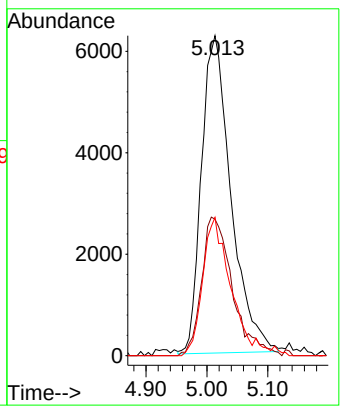


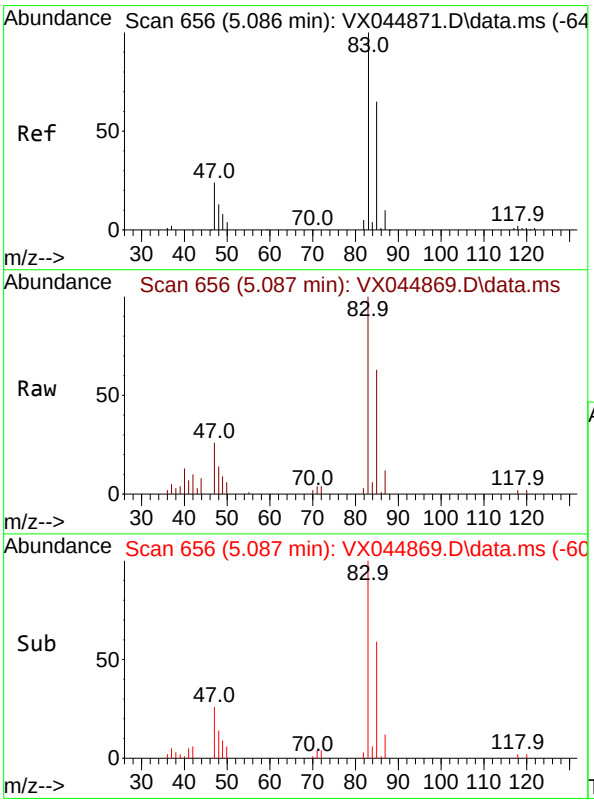
#29
Tetrahydrofuran
Concen: 24.429 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 21097

Ion	Ratio	Lower	Upper
42	100		
72	45.3	35.0	52.4
71	41.6	32.6	48.8

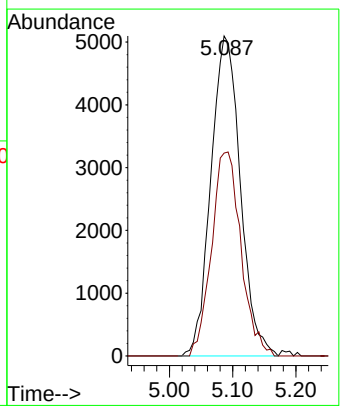


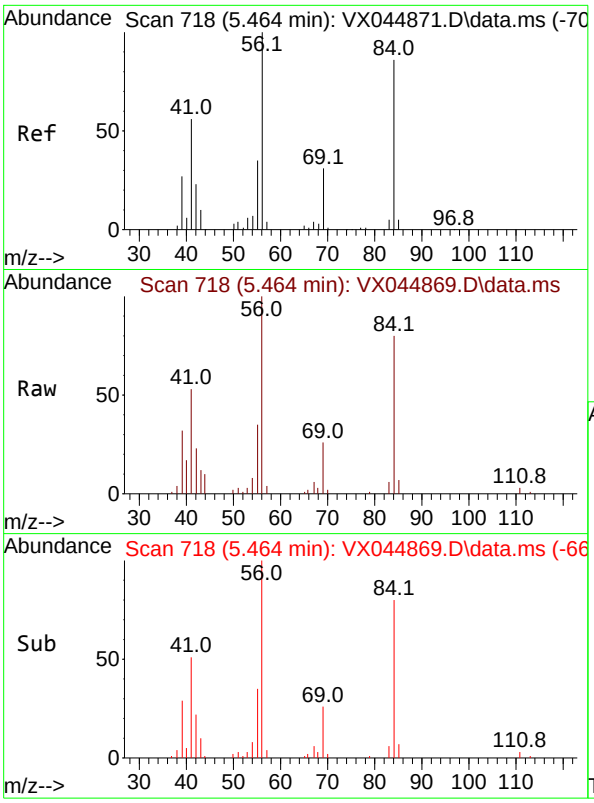


#30
Chloroform
Concen: 5.054 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 16449

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.1	78.1



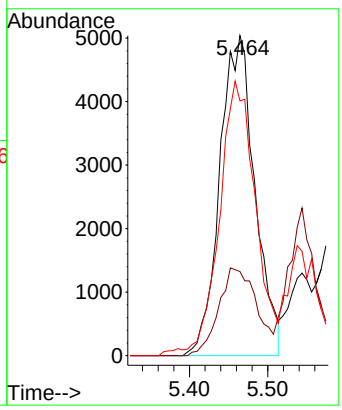


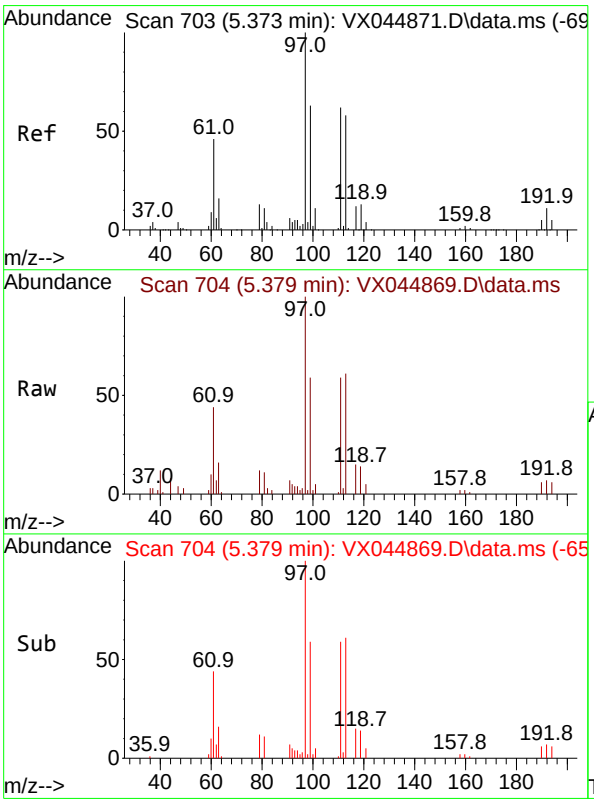
#31
Cyclohexane
Concen: 5.076 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 15705

Ion	Ratio	Lower	Upper
56	100		
69	26.3	24.4	36.6
84	77.4	69.0	103.6

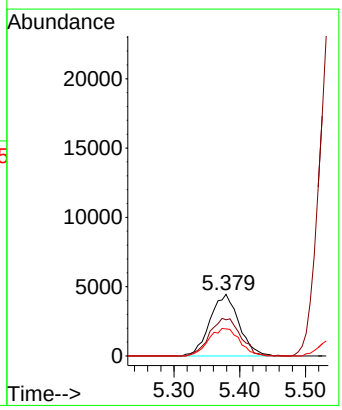


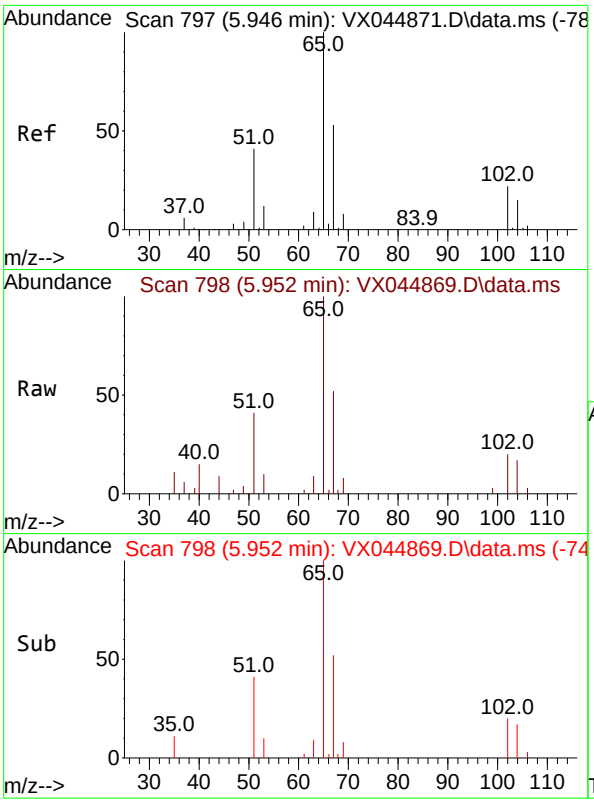


#32
1,1,1-Trichloroethane
Concen: 4.947 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 97 Resp: 13658

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	47.3	36.6	55.0



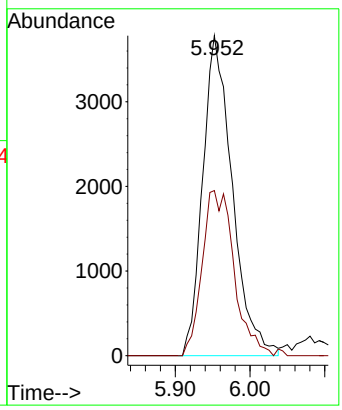


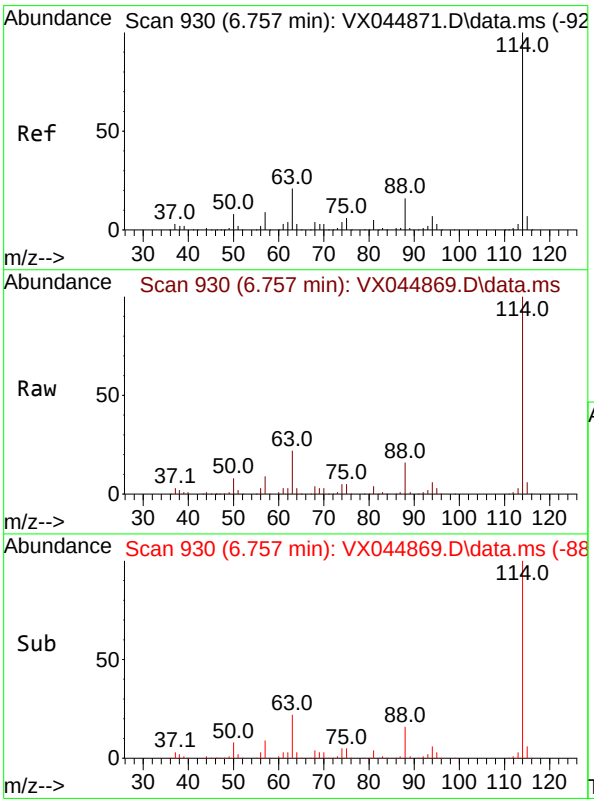
#33
1,2-Dichloroethane-d4
Concen: 5.219 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 10397

Ion	Ratio	Lower	Upper
65	100		
67	55.6	0.0	108.2

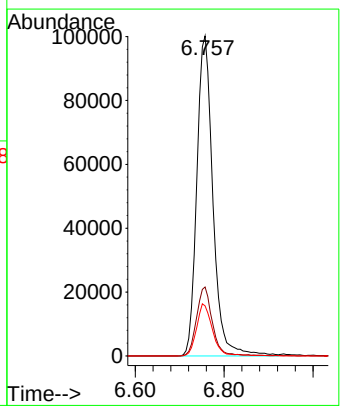


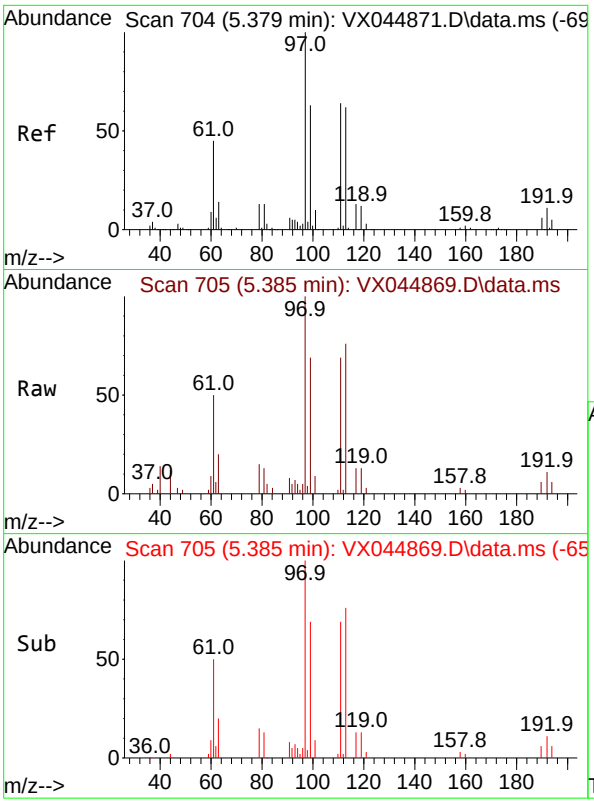


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:114 Resp: 253314

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.4
88	15.6	0.0	31.4



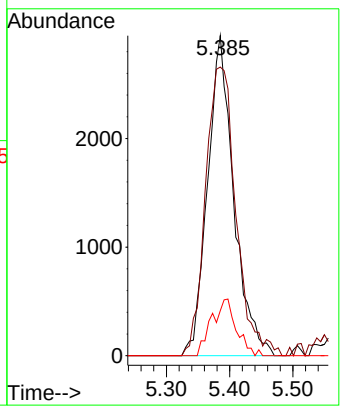


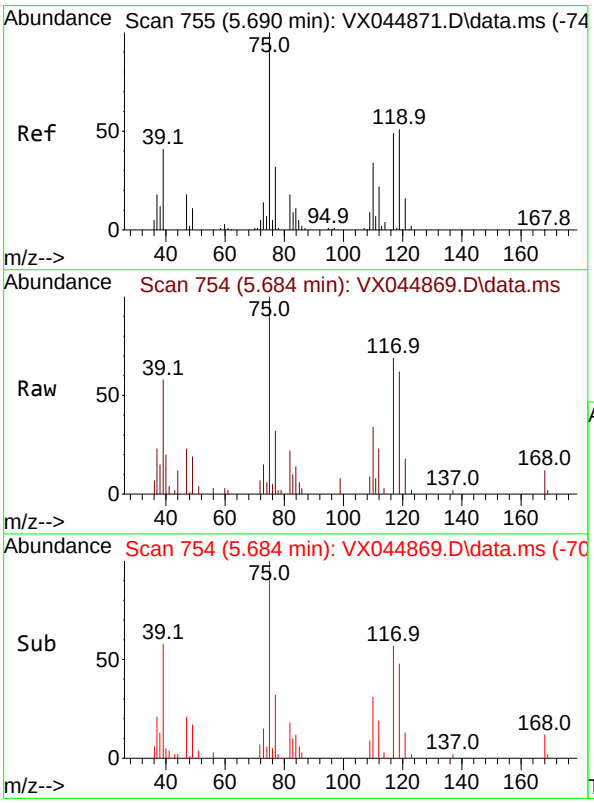
#35
Dibromofluoromethane
Concen: 5.150 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 8482

Ion	Ratio	Lower	Upper
113	100		
111	104.6	83.5	125.3
192	16.7	14.4	21.6

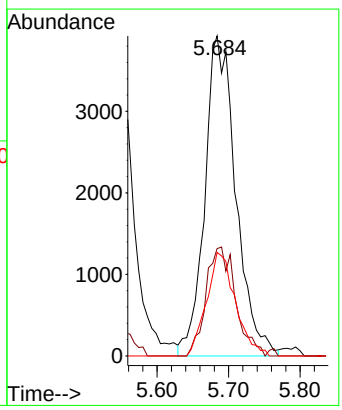


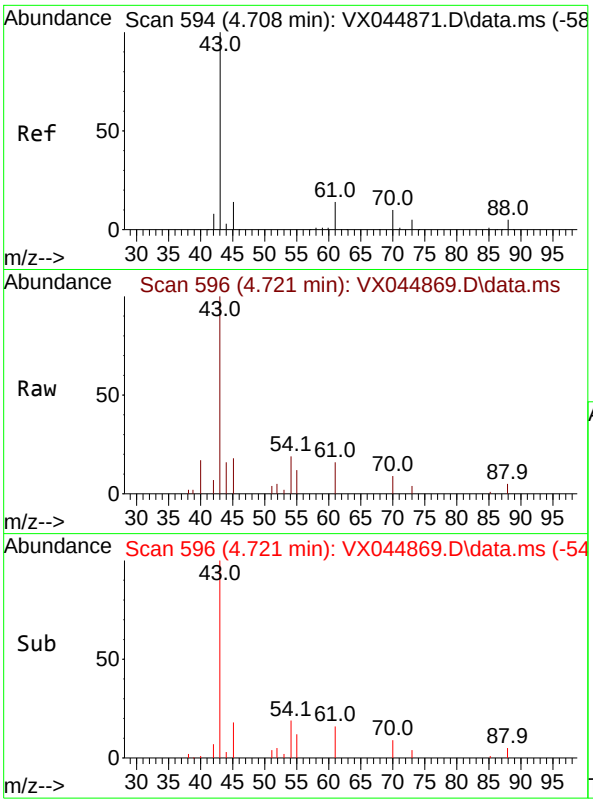


#36
1,1-Dichloropropene
Concen: 4.981 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 11835

Ion	Ratio	Lower	Upper
75	100		
110	32.4	17.2	51.6
77	30.0	24.6	37.0



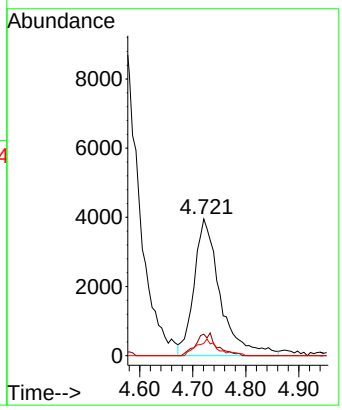


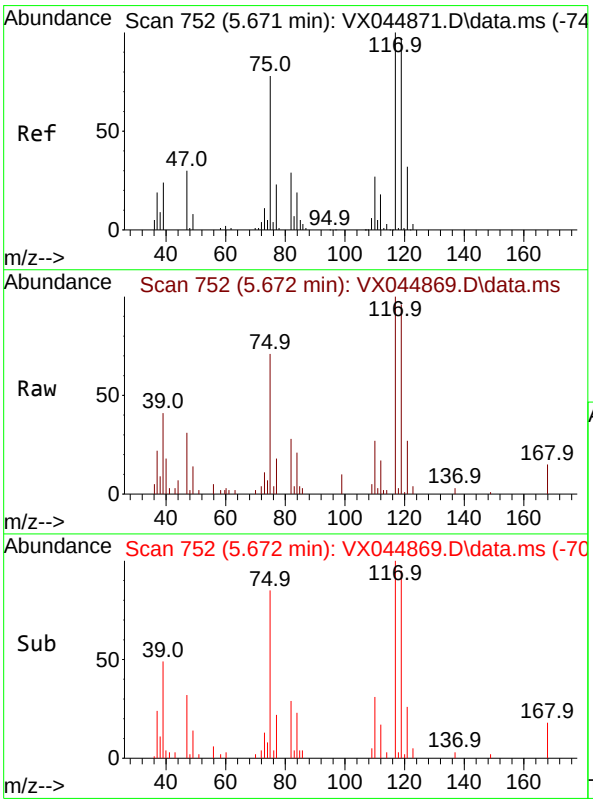
#37
Ethyl Acetate
Concen: 5.119 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 13530

Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.0	16.4
70	9.8	8.2	12.2

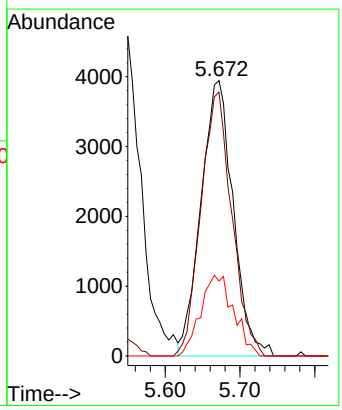


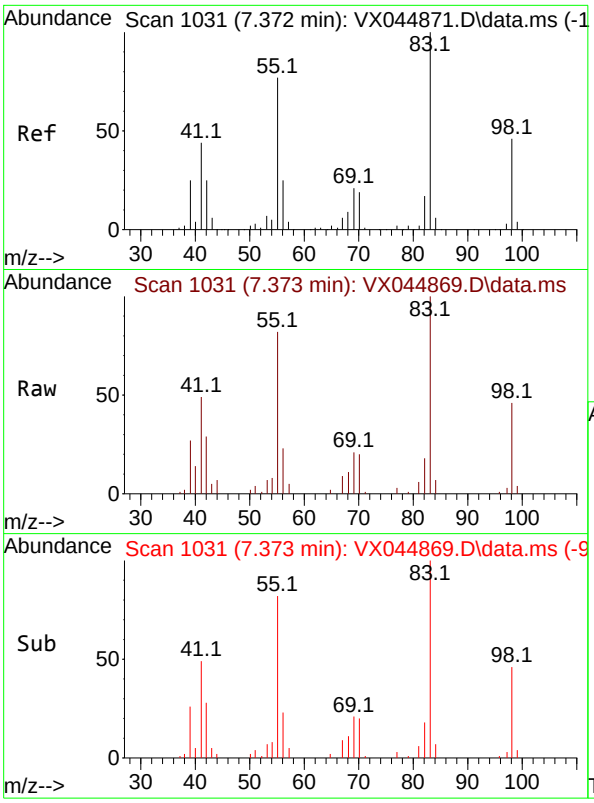


#38
Carbon Tetrachloride
Concen: 5.066 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 11797

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.5	116.3
121	27.2	25.6	38.4



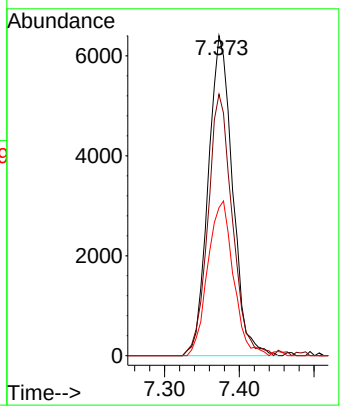


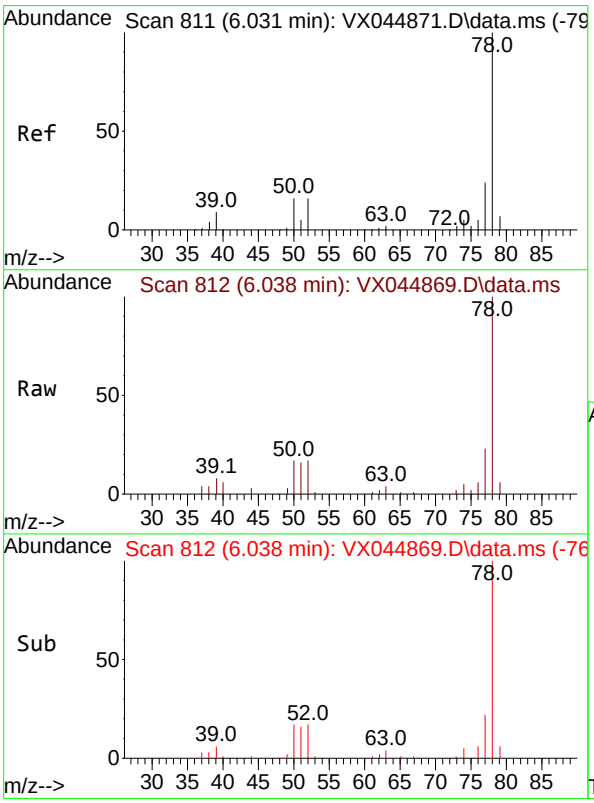
#39
Methylcyclohexane
Concen: 4.711 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 14472

Ion	Ratio	Lower	Upper
83	100		
55	81.7	61.3	91.9
98	46.3	37.0	55.6

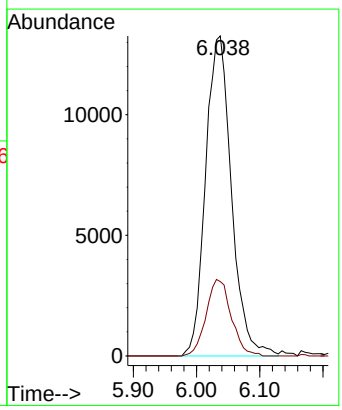


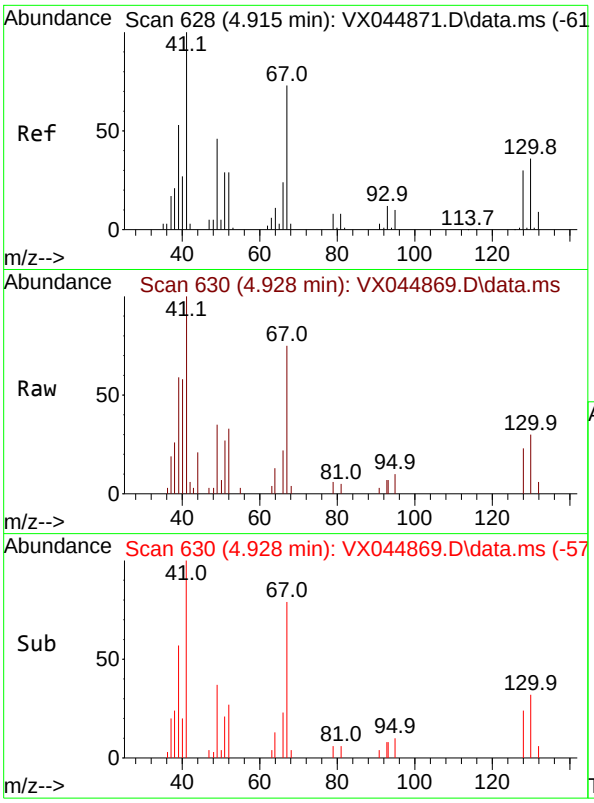


#40
Benzene
Concen: 5.079 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 78 Resp: 37687

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6



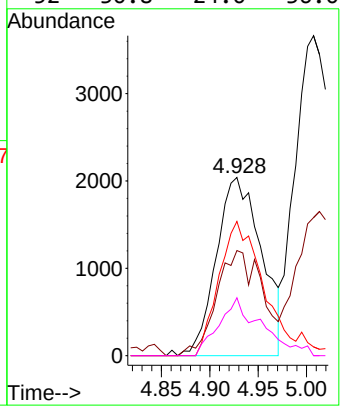


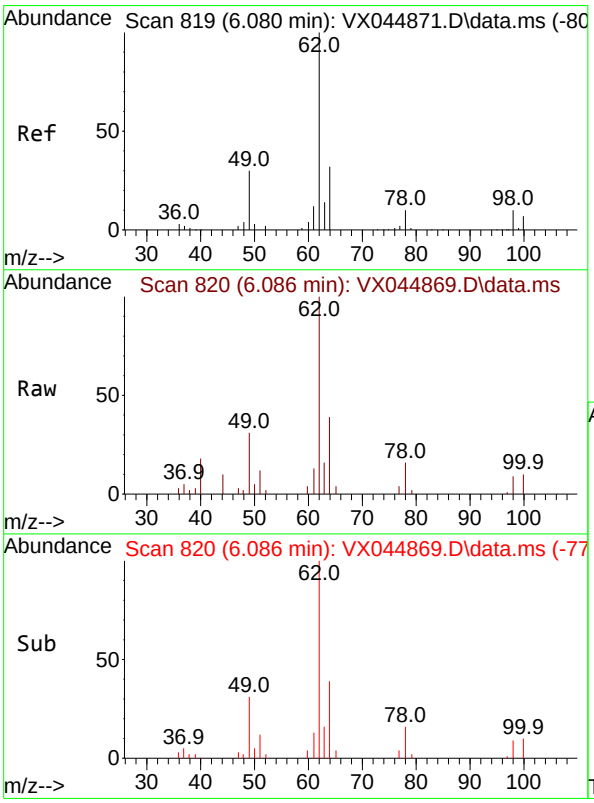
#41
Methacrylonitrile
Concen: 4.699 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 6648

Ion	Ratio	Lower	Upper
41	100		
39	59.4	43.1	64.7
67	72.7	57.0	85.6
52	30.8	24.0	36.0

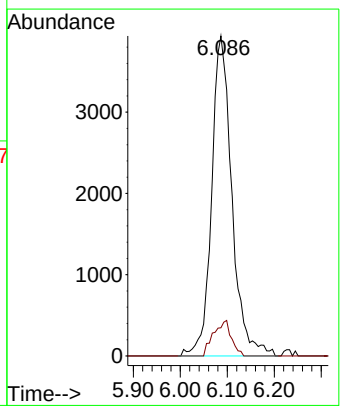


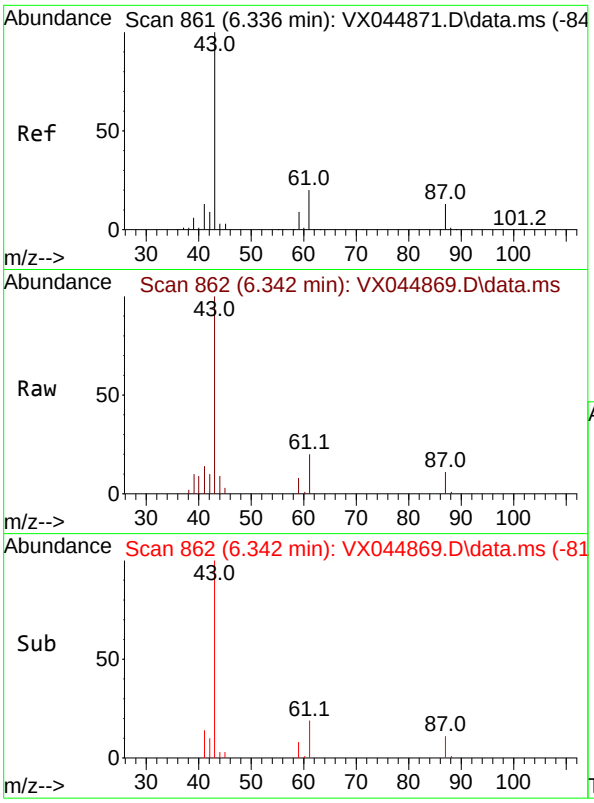


#42
1,2-Dichloroethane
Concen: 4.985 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11789

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4



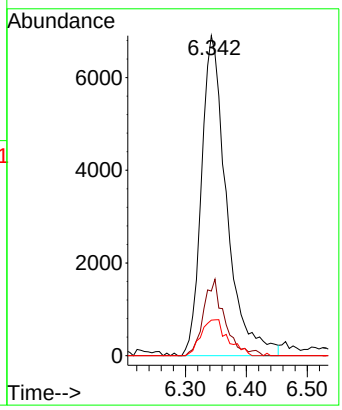


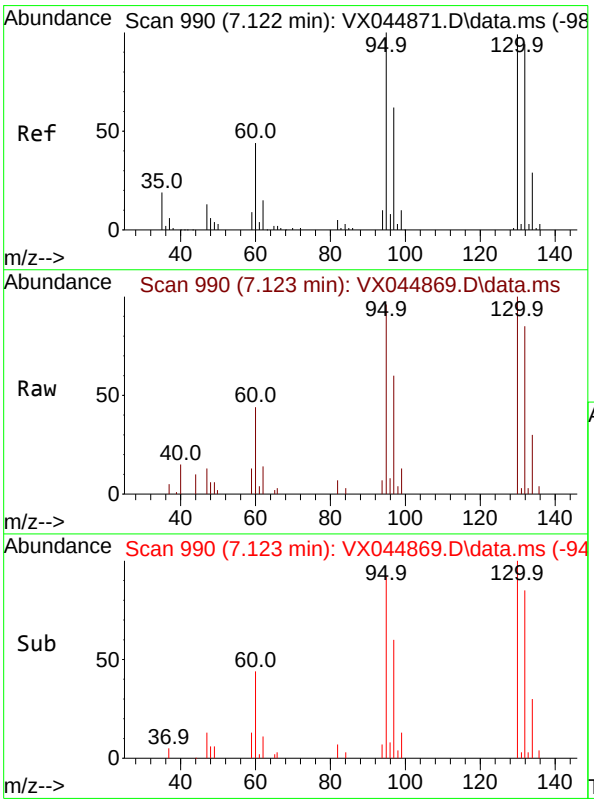
#43
Isopropyl Acetate
Concen: 4.640 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 19803

Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.8	23.8
87	11.9	10.0	15.0

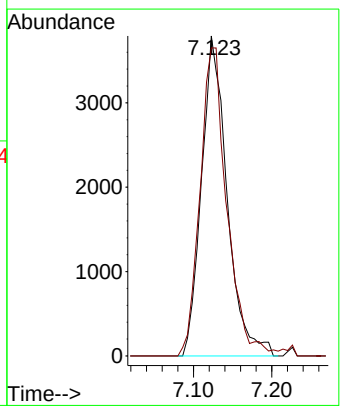


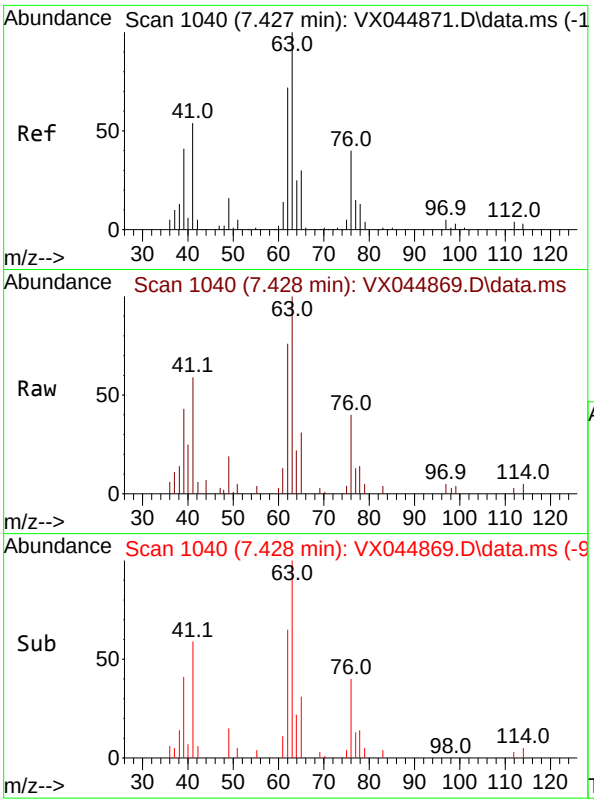


#44
Trichloroethene
Concen: 5.079 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:130 Resp: 8614

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	202.4



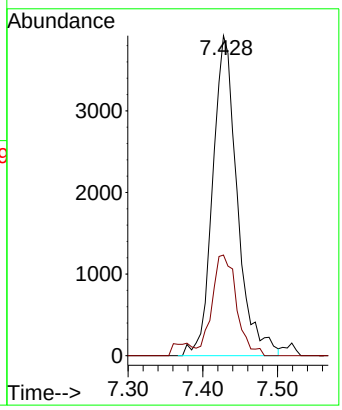


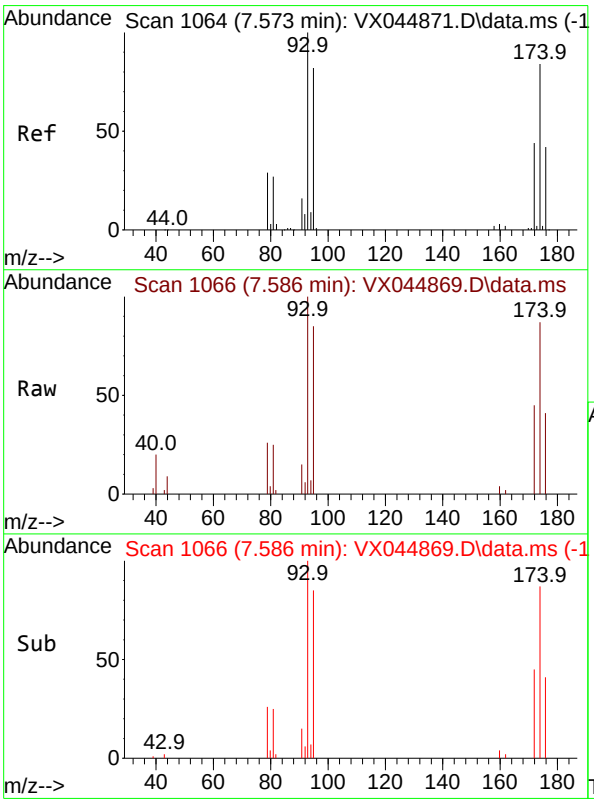
#45
1,2-Dichloropropane
Concen: 4.863 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 8976

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.2	36.4

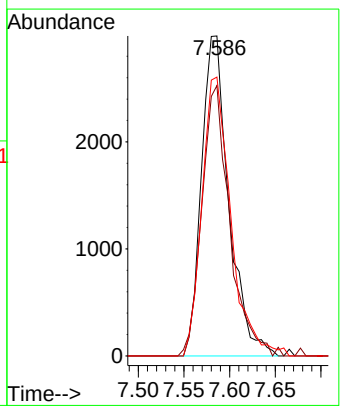


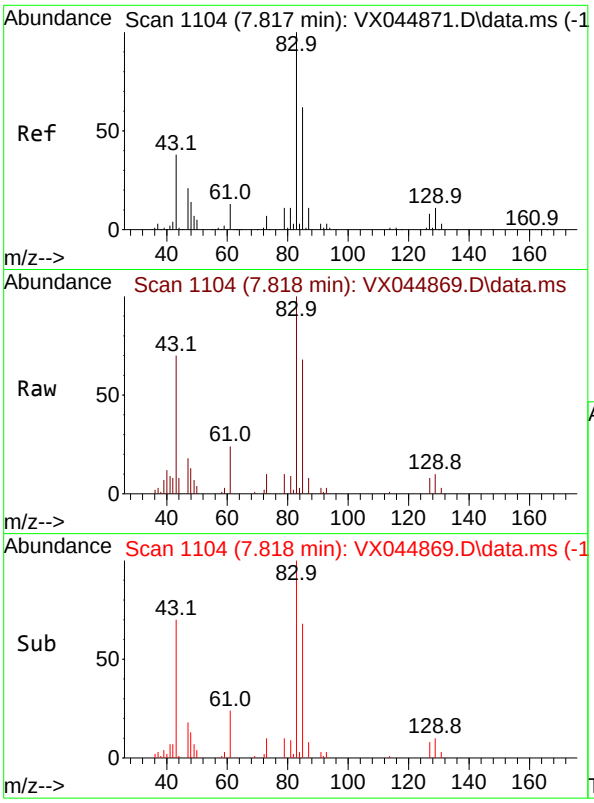


#46
Dibromomethane
Concen: 4.851 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 93 Resp: 6210

Ion	Ratio	Lower	Upper
93	100		
95	86.4	66.2	99.4
174	92.2	69.9	104.9



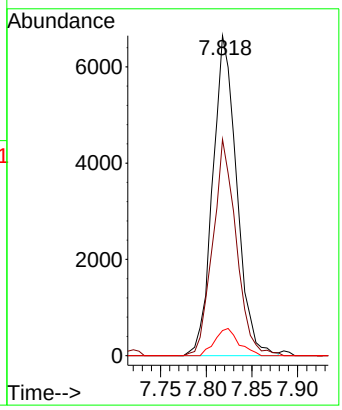


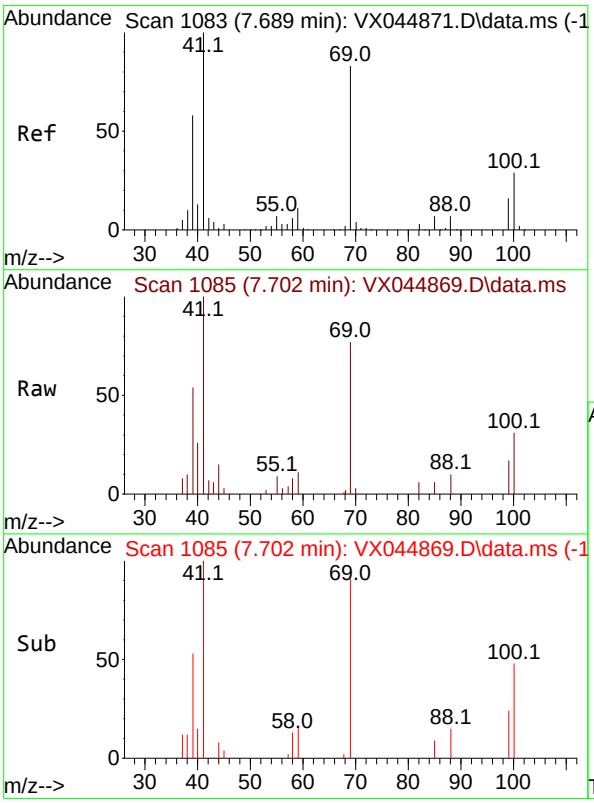
#47
Bromodichloromethane
Concen: 4.911 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 12173

Ion	Ratio	Lower	Upper
83	100		
85	67.6	50.0	75.0
127	7.8	6.4	9.6

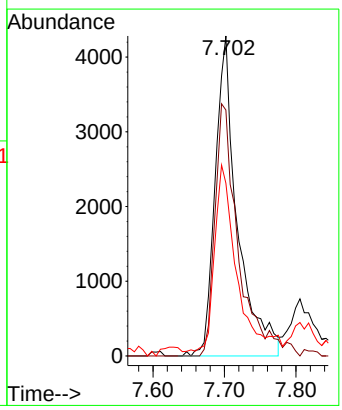


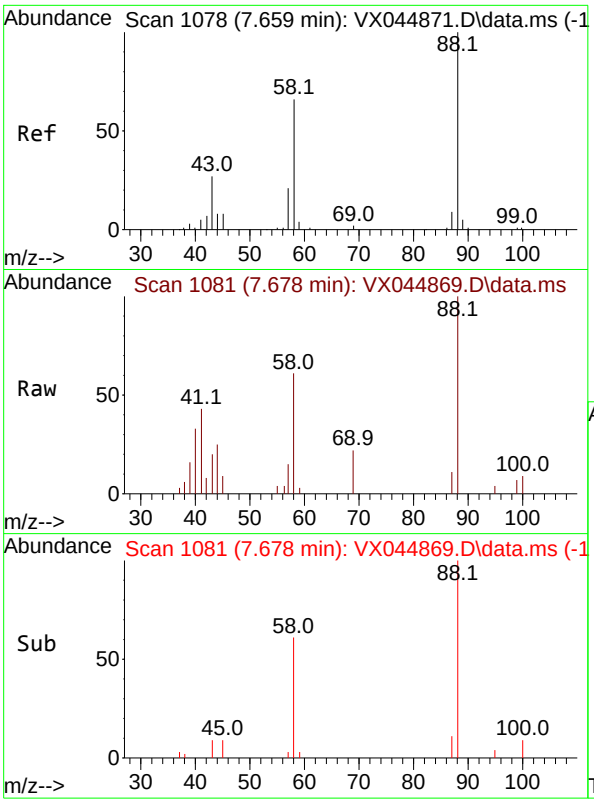


#48
Methyl methacrylate
Concen: 4.620 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 9298

Ion	Ratio	Lower	Upper
41	100		
69	83.0	65.8	98.8
39	54.6	46.4	69.6



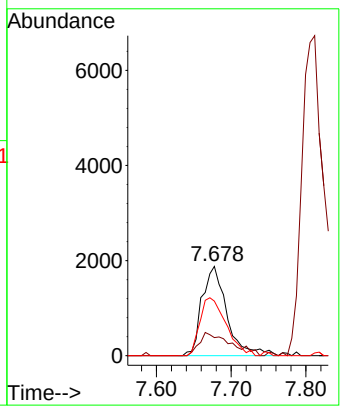


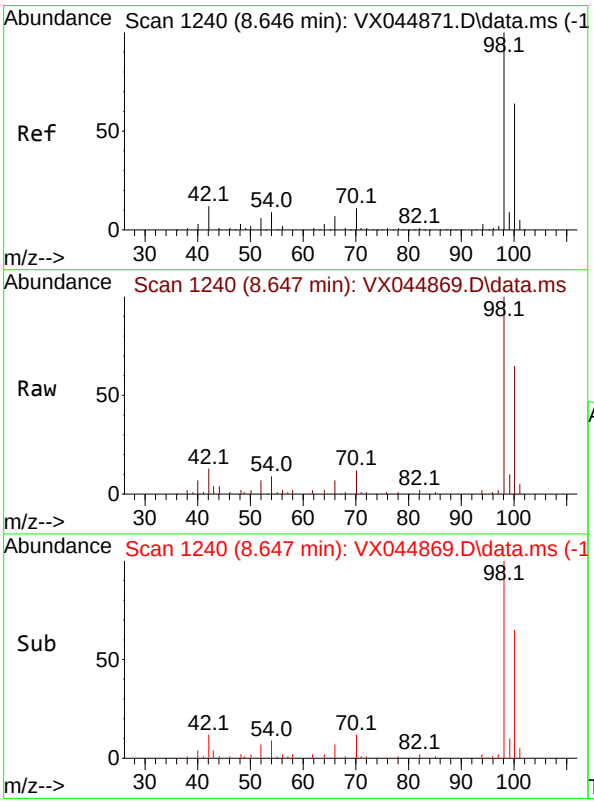
#49
1,4-Dioxane
Concen: 101.099 ug/l
RT: 7.678 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 4365

Ion	Ratio	Lower	Upper
88	100		
43	32.3	26.6	39.8
58	67.9	55.9	83.9

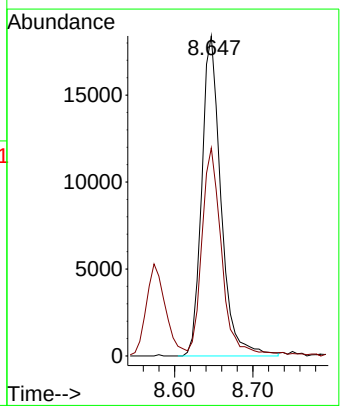


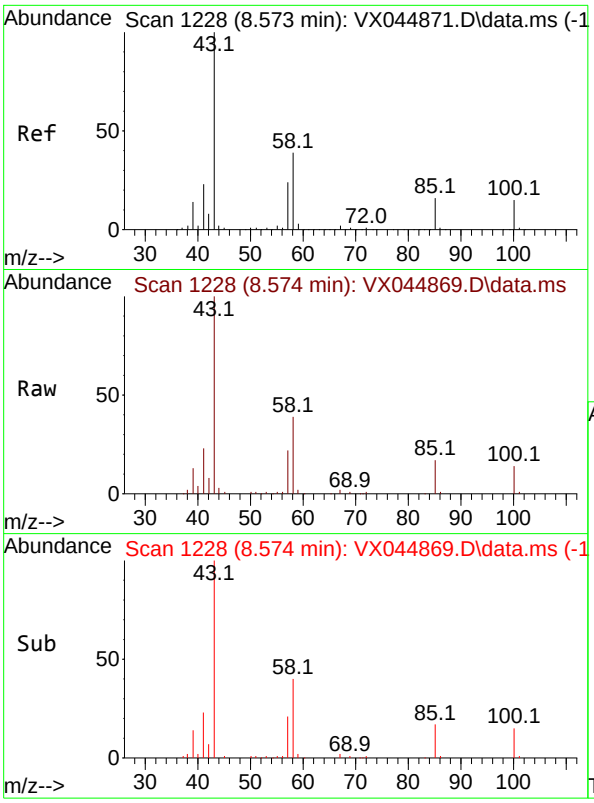


#50
Toluene-d8
Concen: 5.039 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 98 Resp: 31381

Ion	Ratio	Lower	Upper
98	100		
100	67.8	52.7	79.1



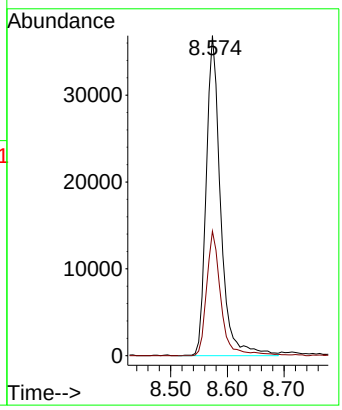


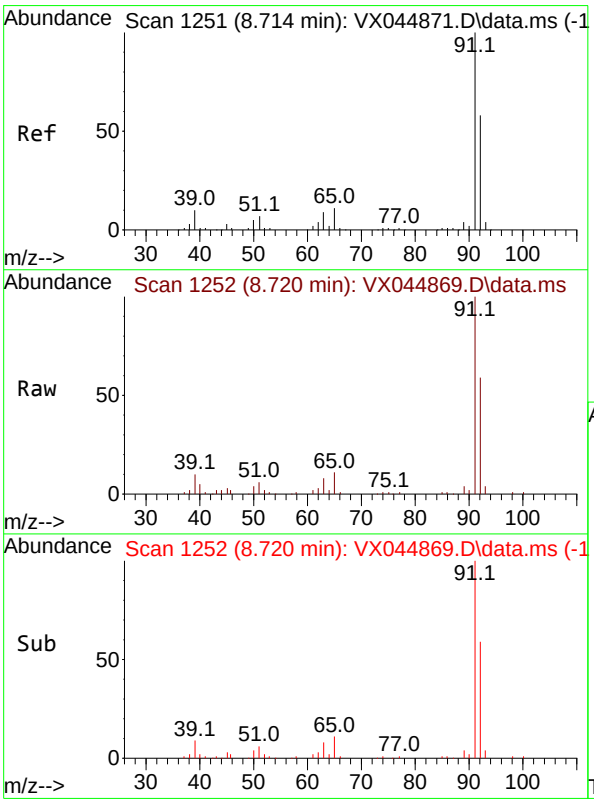
#51
4-Methyl-2-Pentanone
Concen: 25.076 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 65064

Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.8	46.2

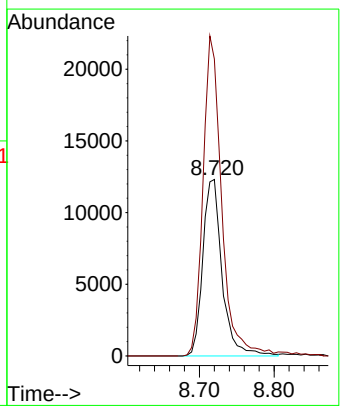


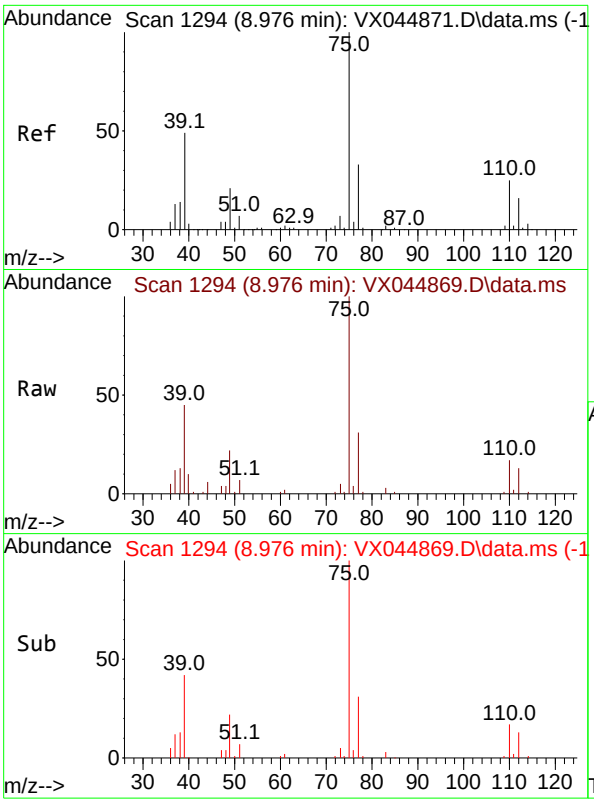


#52
Toluene
Concen: 4.999 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 92 Resp: 22090

Ion	Ratio	Lower	Upper
92	100		
91	177.1	137.4	206.2



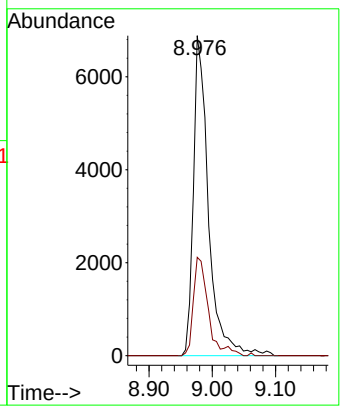


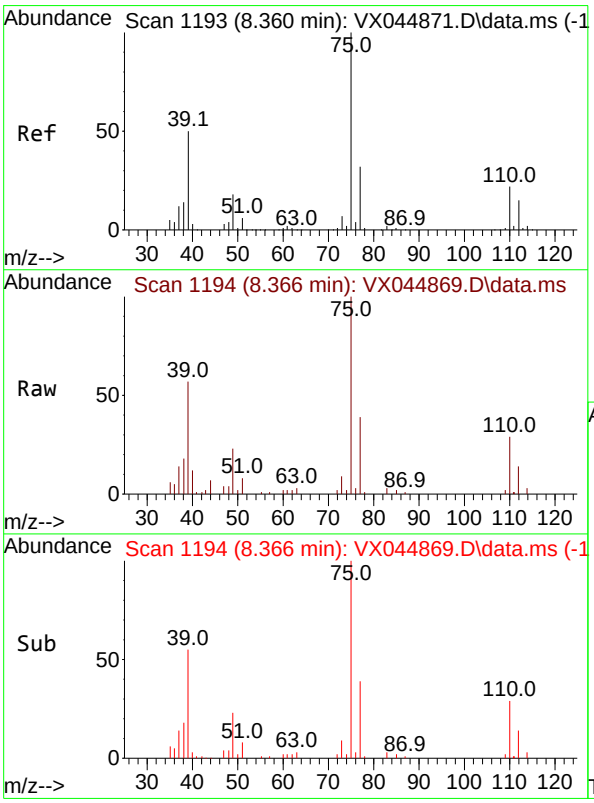
#53
t-1,3-Dichloropropene
Concen: 4.550 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 11413

Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.0	39.0

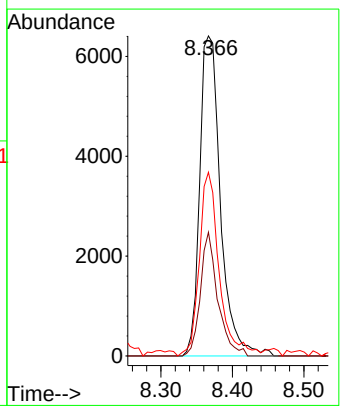


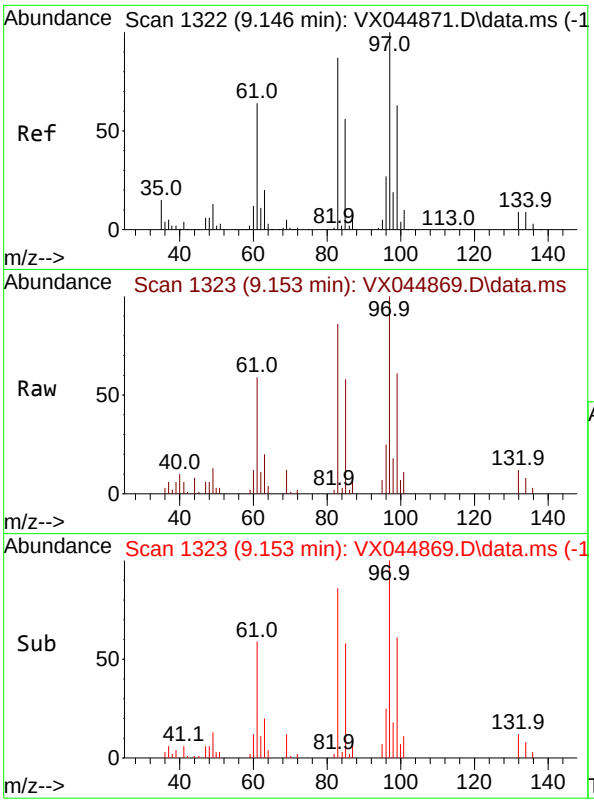


#54
cis-1,3-Dichloropropene
Concen: 4.628 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 12943

Ion	Ratio	Lower	Upper
75	100		
77	38.7	25.3	37.9#
39	57.4	40.0	60.0



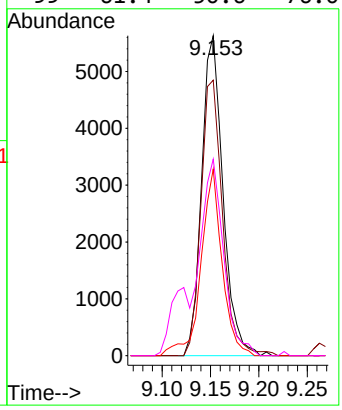


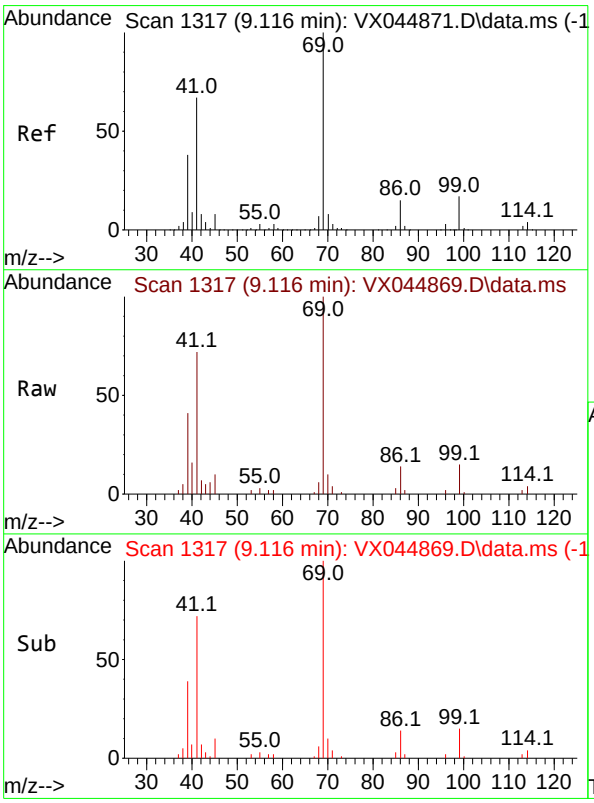
#55
1,1,2-Trichloroethane
Concen: 5.099 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 8662

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.8	104.6
85	58.3	44.8	67.2
99	61.4	50.6	76.0

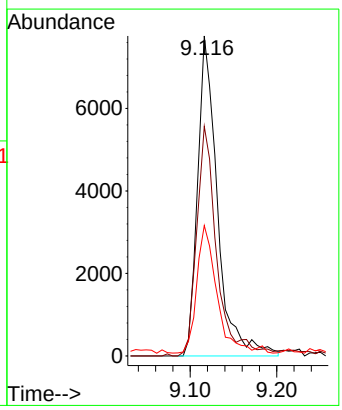


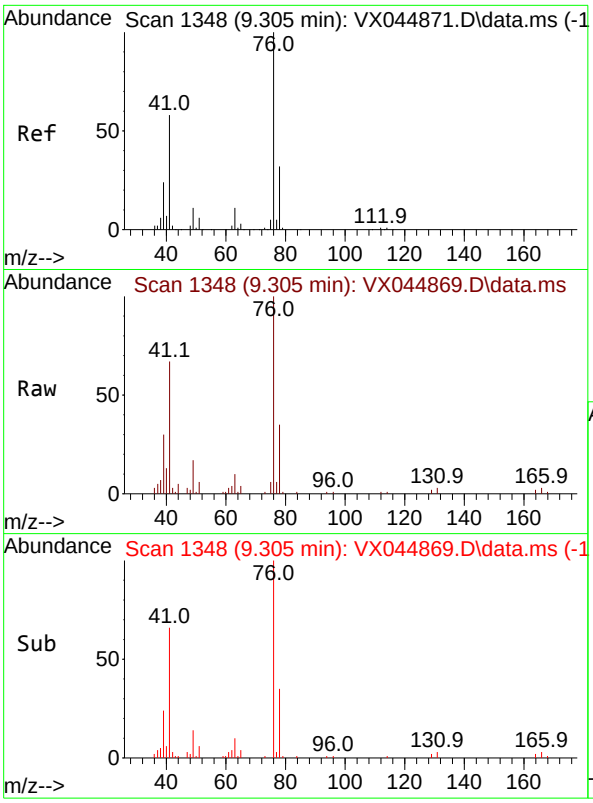


#56
Ethyl methacrylate
Concen: 4.502 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 69 Resp: 12351

Ion	Ratio	Lower	Upper
69	100		
41	73.0	55.2	82.8
39	39.5	30.8	46.2



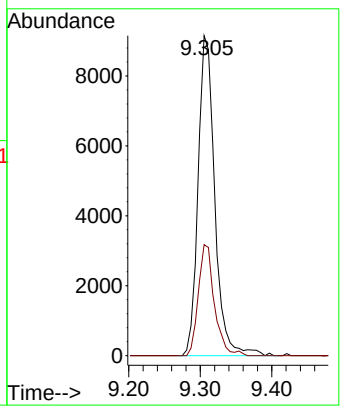


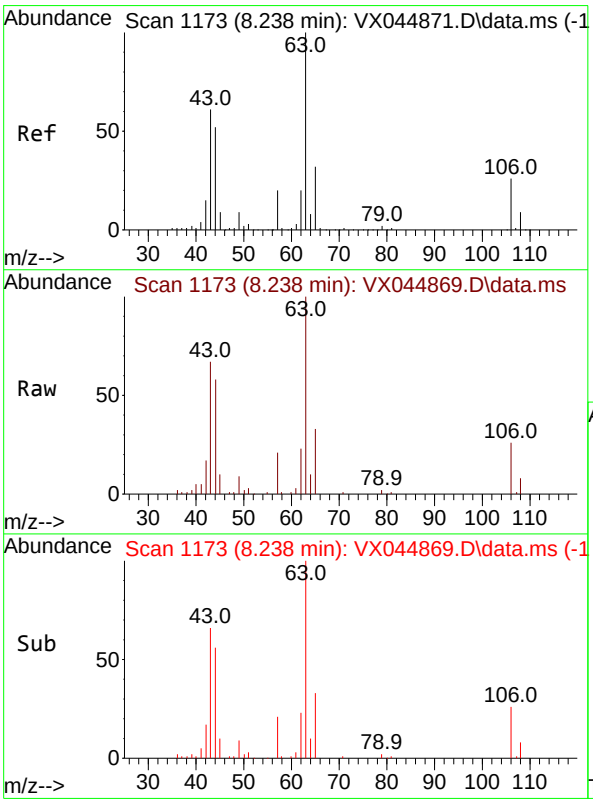
#57
1,3-Dichloropropane
Concen: 4.993 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 14839

Ion	Ratio	Lower	Upper
76	100		
78	33.4	25.8	38.8

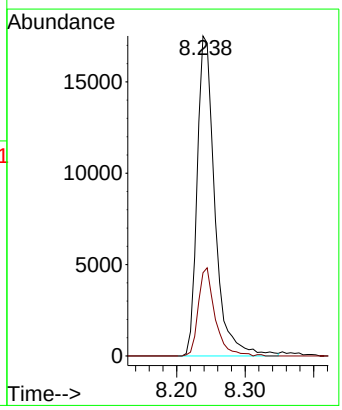


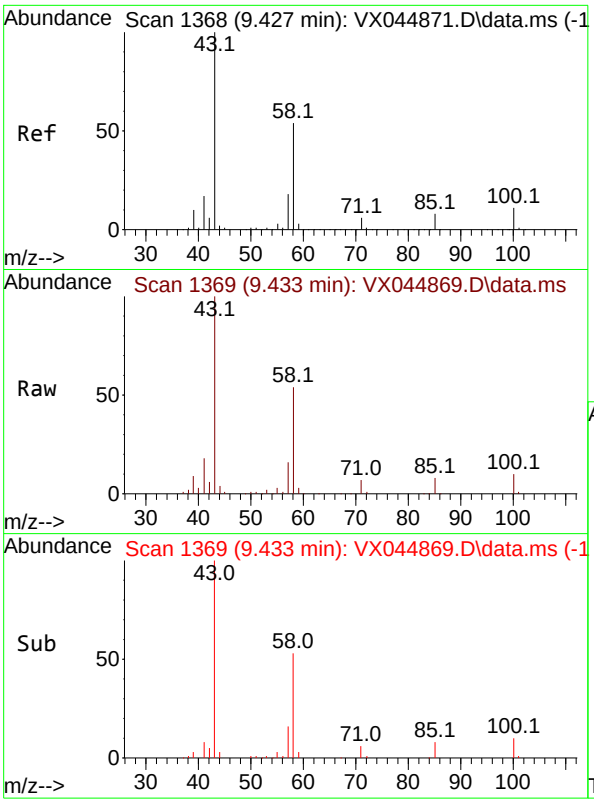


#58
2-Chloroethyl Vinyl ether
Concen: 23.382 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 31498

Ion	Ratio	Lower	Upper
63	100		
106	25.8	21.3	31.9



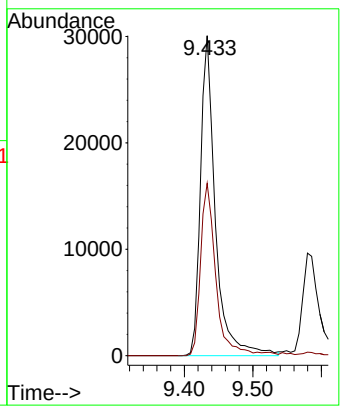


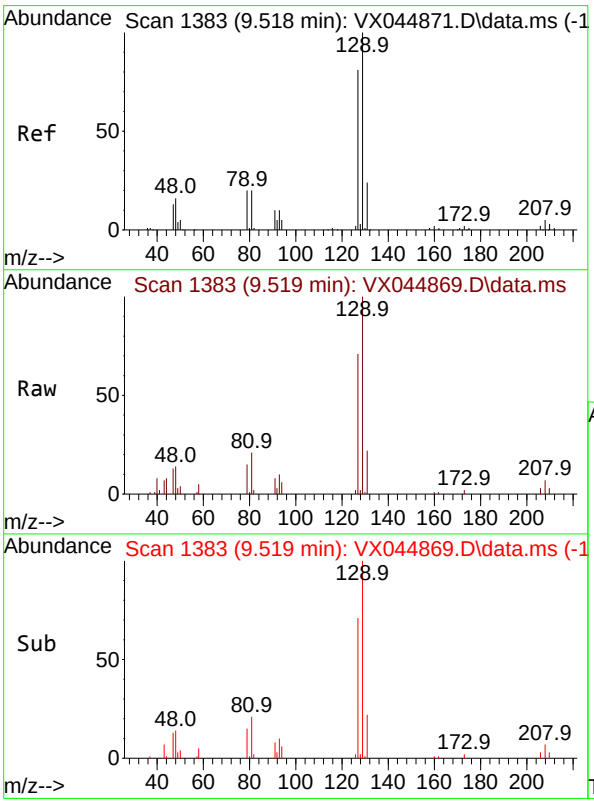
#59
2-Hexanone
Concen: 24.359 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 45538

Ion	Ratio	Lower	Upper
43	100		
58	55.5	27.5	82.4

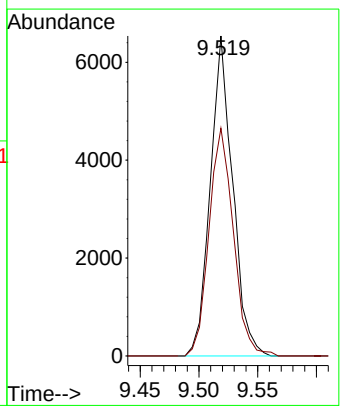


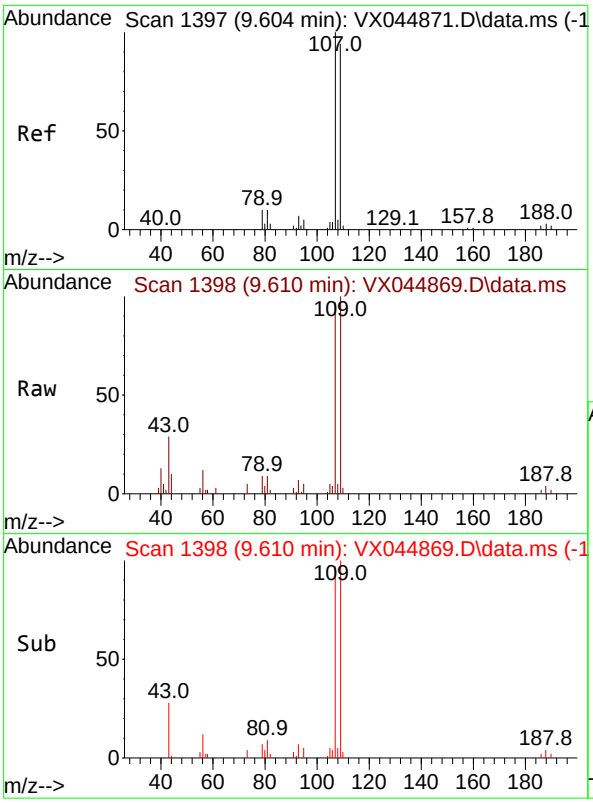


#60
Dibromochloromethane
Concen: 4.771 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:129 Resp: 8668

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.3



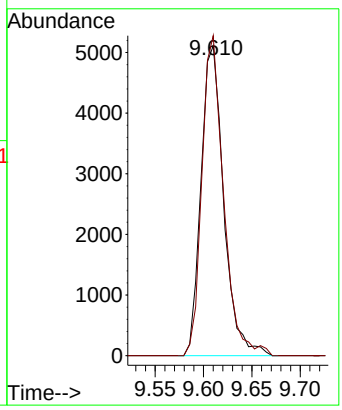


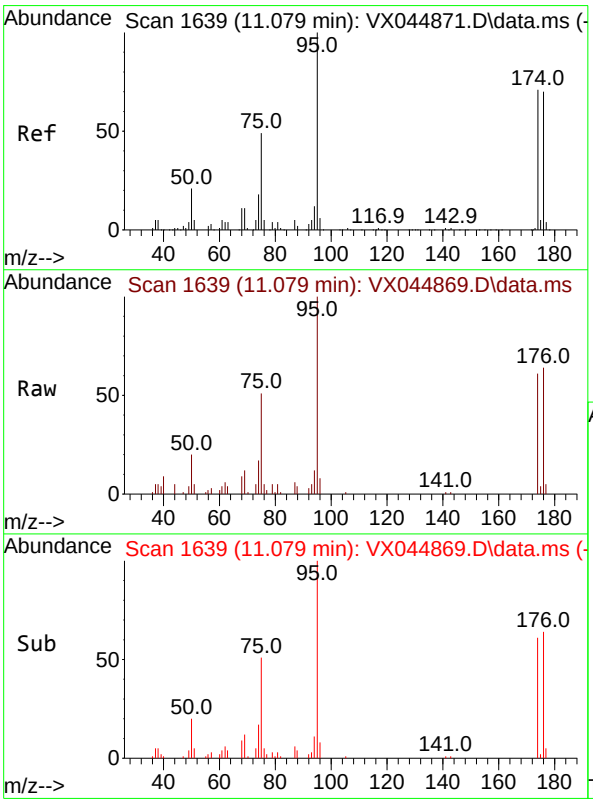
#61
1,2-Dibromoethane
Concen: 4.852 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 8353

Ion	Ratio	Lower	Upper
107	100		
109	98.8	75.9	113.9

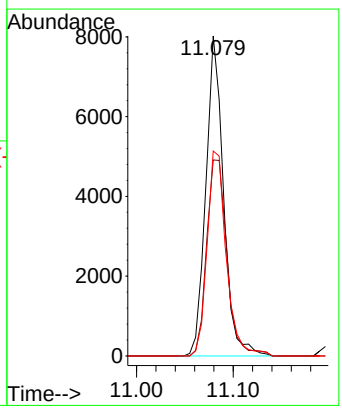


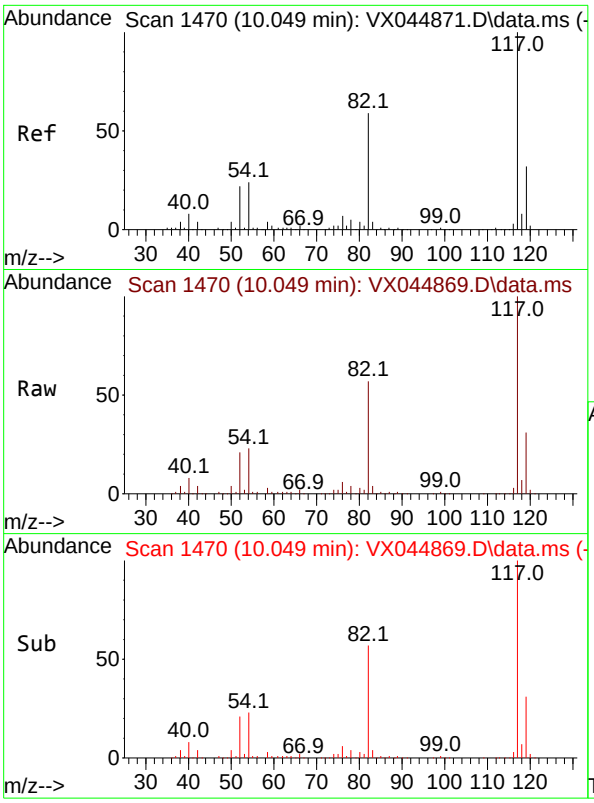


#62
4-Bromofluorobenzene
Concen: 4.872 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 95 Resp: 10229

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	142.6
176	69.3	0.0	141.6



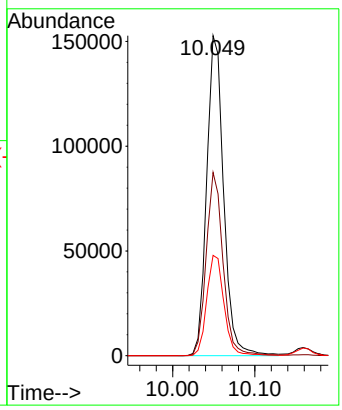


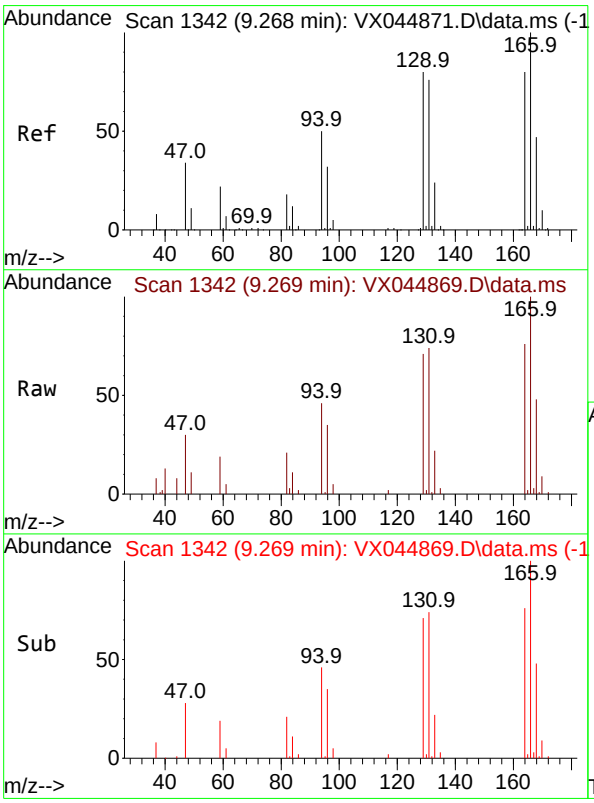
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 218625

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.5	71.3
119	31.4	25.4	38.0

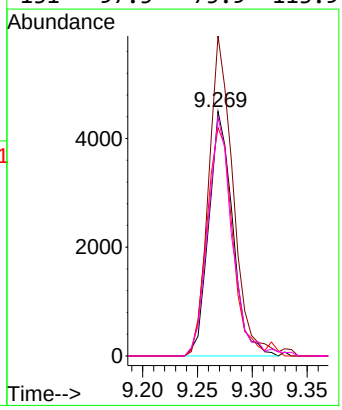


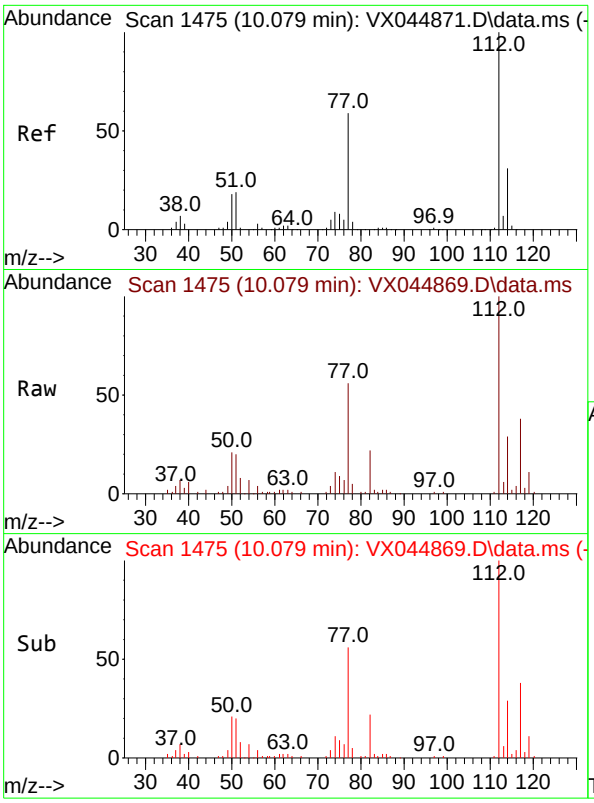


#64
Tetrachloroethene
Concen: 4.934 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:164 Resp: 6803

Ion	Ratio	Lower	Upper
164	100		
166	130.9	100.4	150.6
129	93.4	79.9	119.9
131	97.5	75.9	113.9



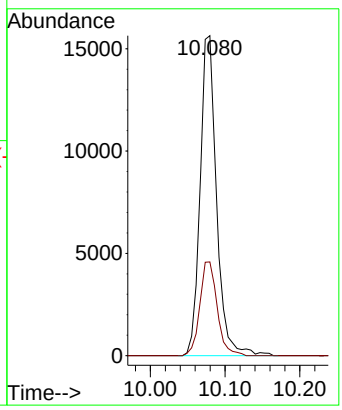


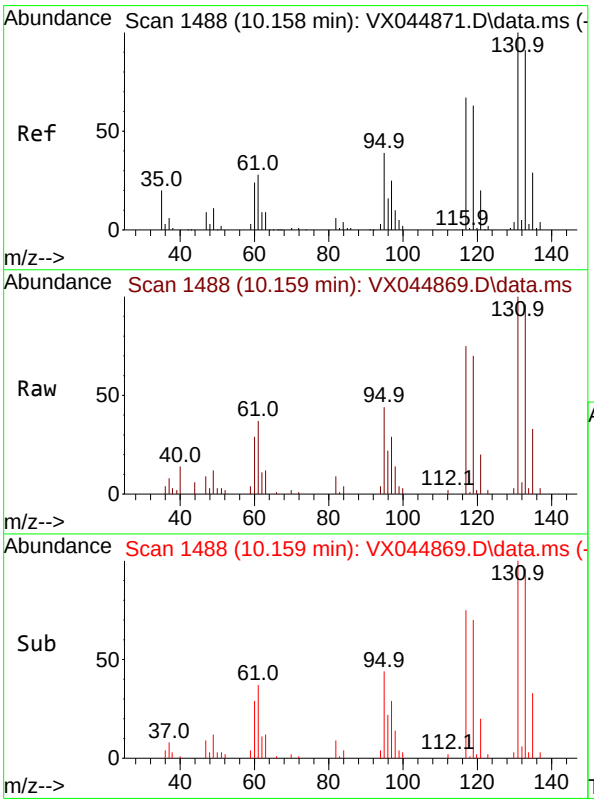
#65
Chlorobenzene
Concen: 5.090 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 23903

Ion	Ratio	Lower	Upper
112	100		
114	29.3	25.0	37.6

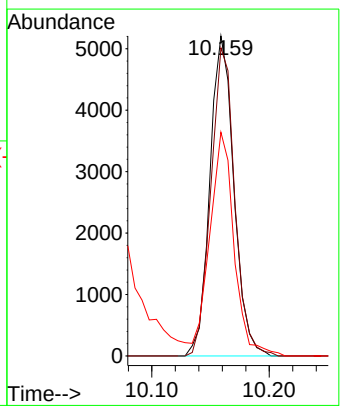


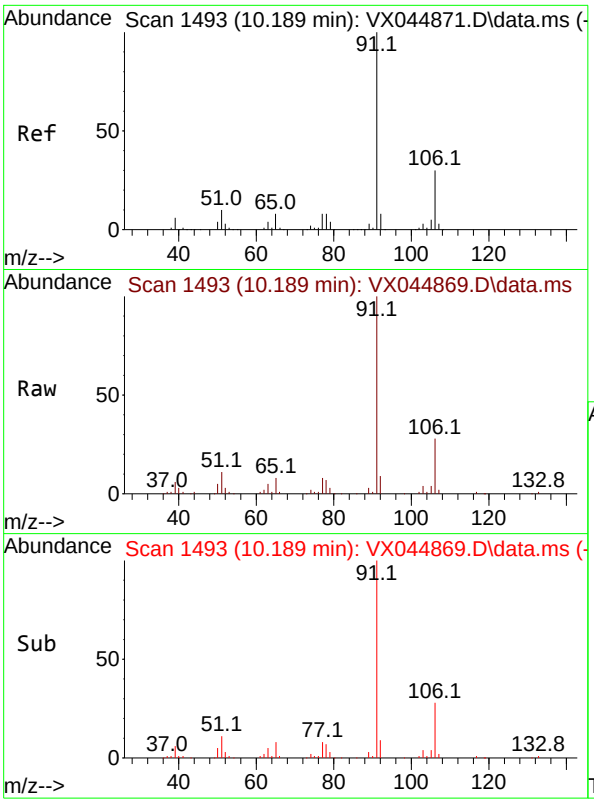


#66
1,1,1,2-Tetrachloroethane
Concen: 4.883 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:131 Resp: 7380

Ion	Ratio	Lower	Upper
131	100		
133	96.2	47.1	141.3
119	70.5	33.6	100.6



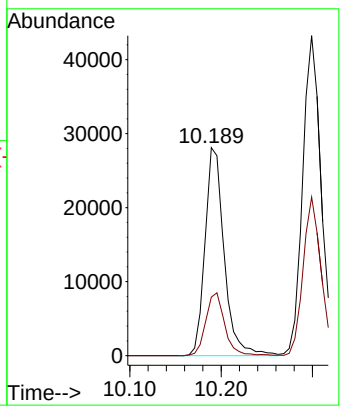


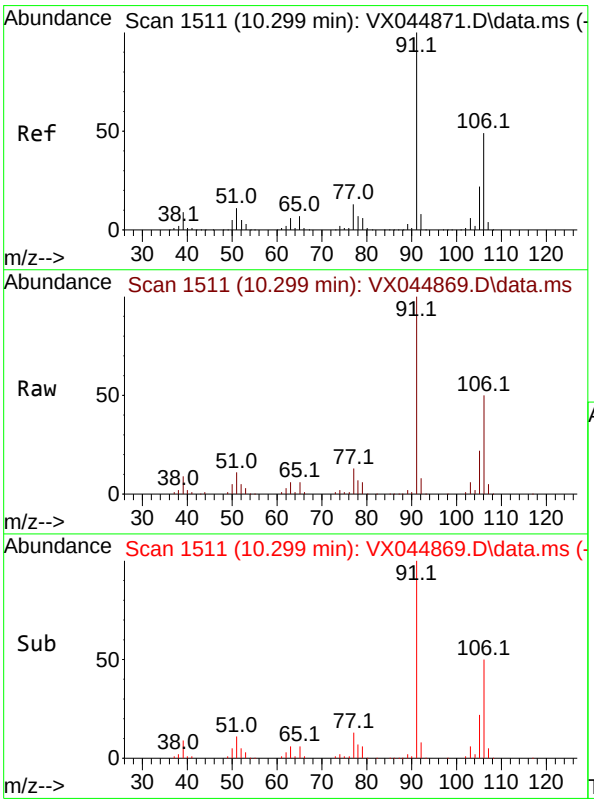
#67
Ethyl Benzene
Concen: 4.941 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 40945

Ion	Ratio	Lower	Upper
91	100		
106	28.1	23.9	35.9

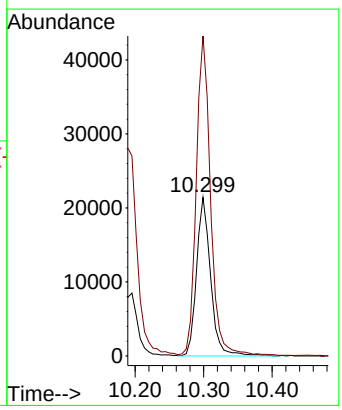


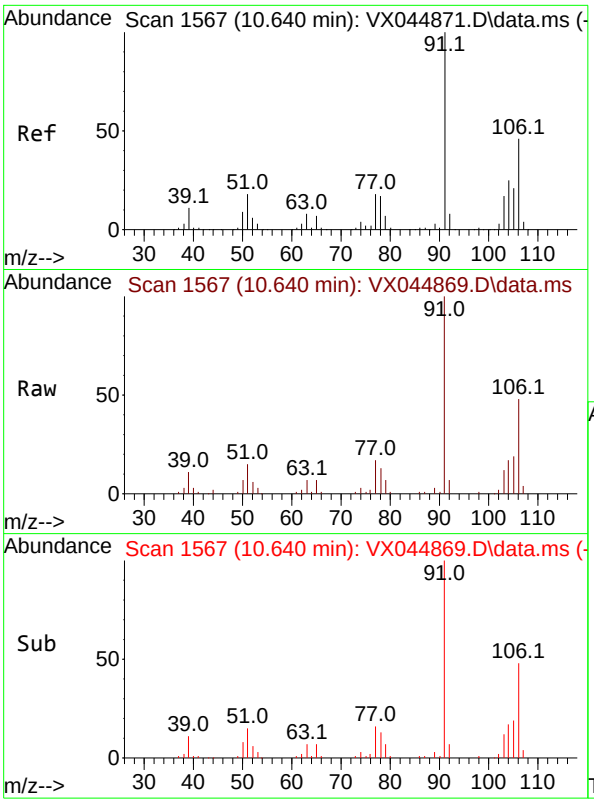


#68
m/p-Xylenes
Concen: 10.019 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:106 Resp: 30627

Ion	Ratio	Lower	Upper
106	100		
91	204.6	164.3	246.5



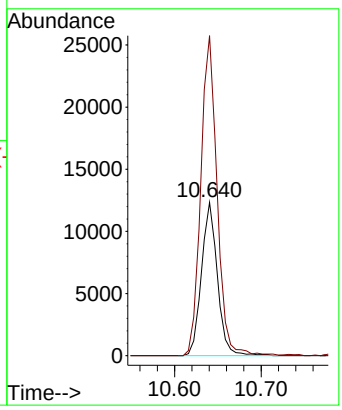


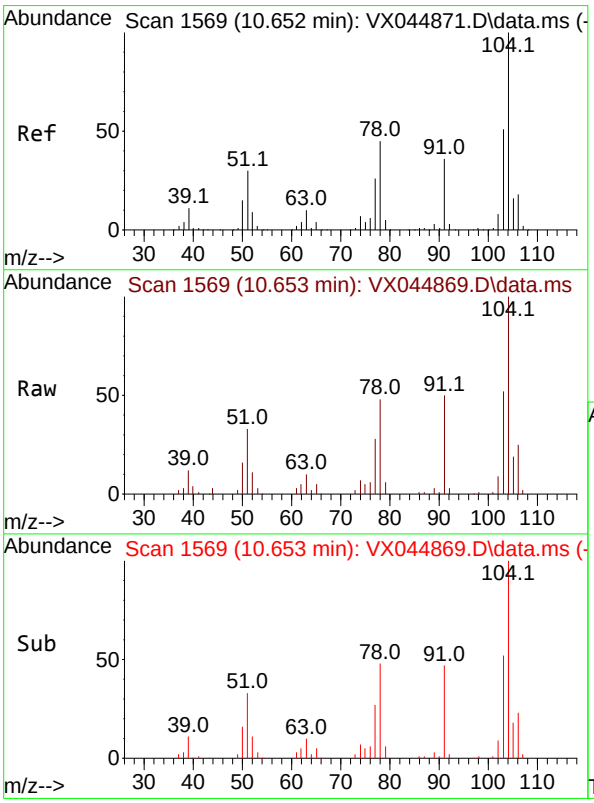
#69
o-Xylene
Concen: 5.139 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 15761

Ion	Ratio	Lower	Upper
106	100		
91	213.9	108.5	325.5

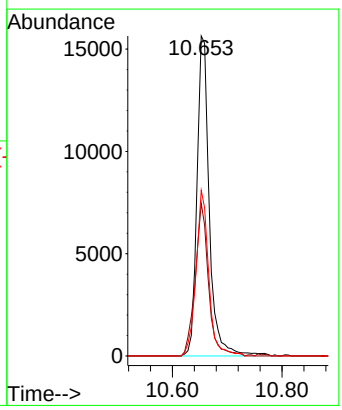


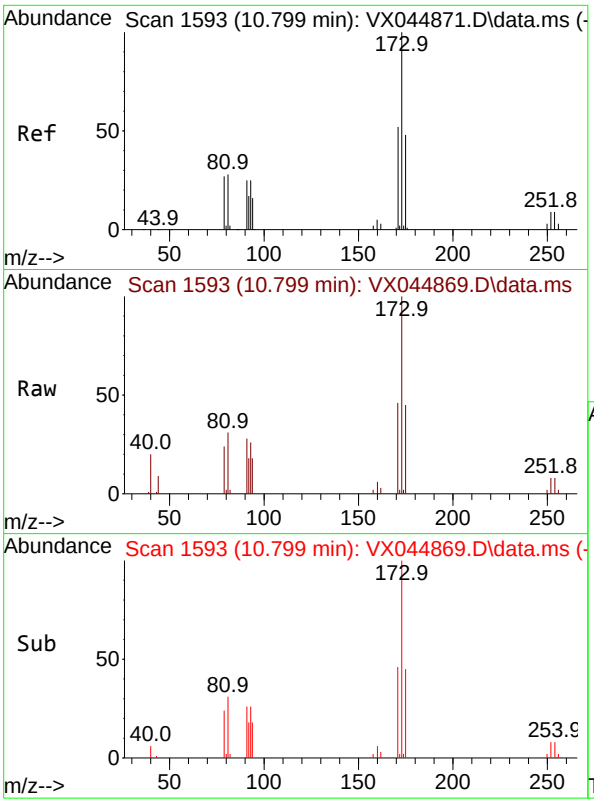


#70
Styrene
Concen: 4.973 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:104 Resp: 24576

Ion	Ratio	Lower	Upper
104	100		
78	51.3	40.5	60.7
103	53.4	43.6	65.4



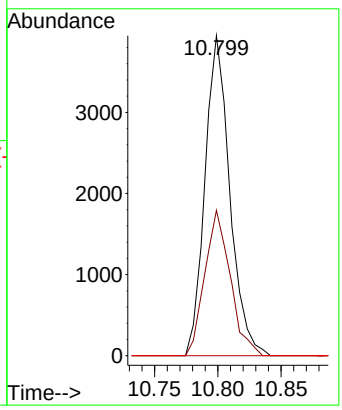


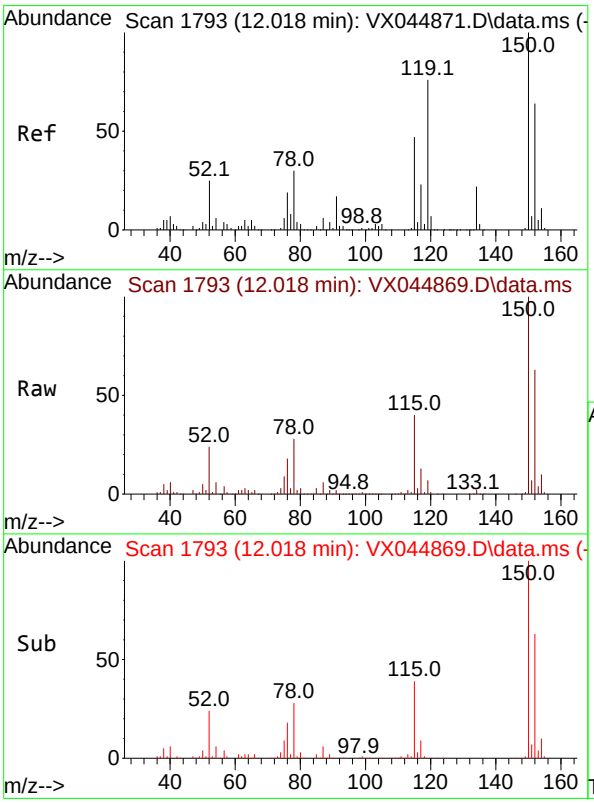
#71
Bromoform
Concen: 4.779 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 5391

Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.3	72.8
254	0.0	0.0	0.0

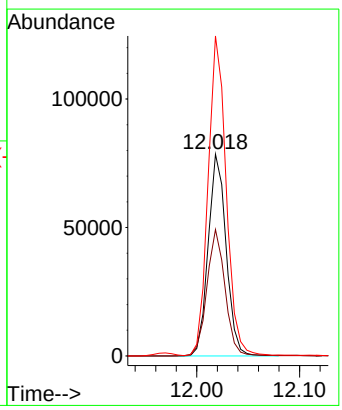


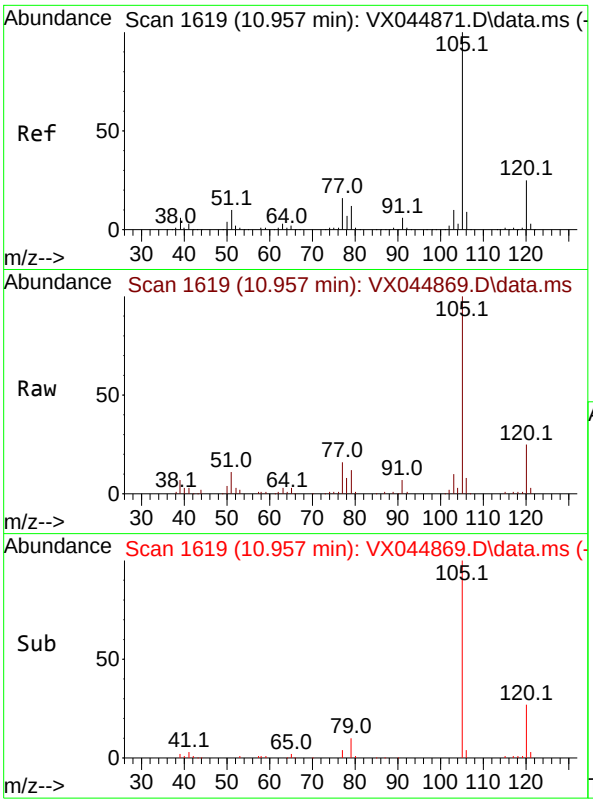


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:152 Resp: 95494

Ion	Ratio	Lower	Upper
152	100		
115	63.3	43.4	130.1
150	159.0	0.0	350.4



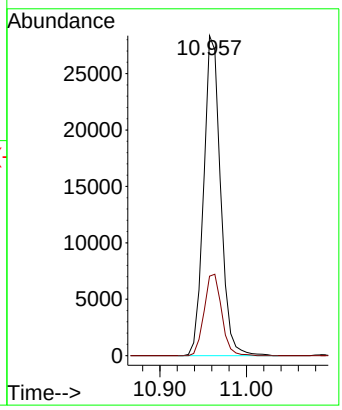


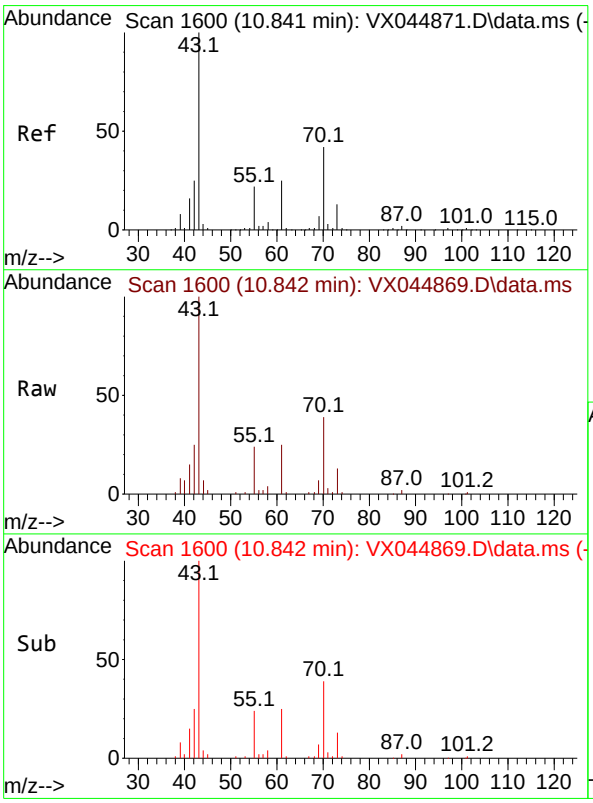
#73
Isopropylbenzene
Concen: 4.983 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 38315

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5

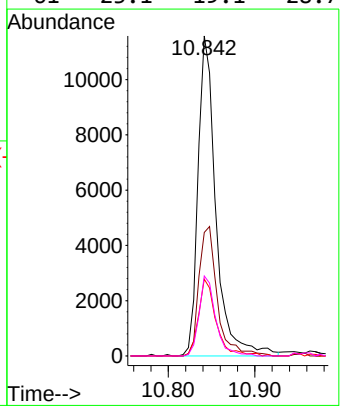


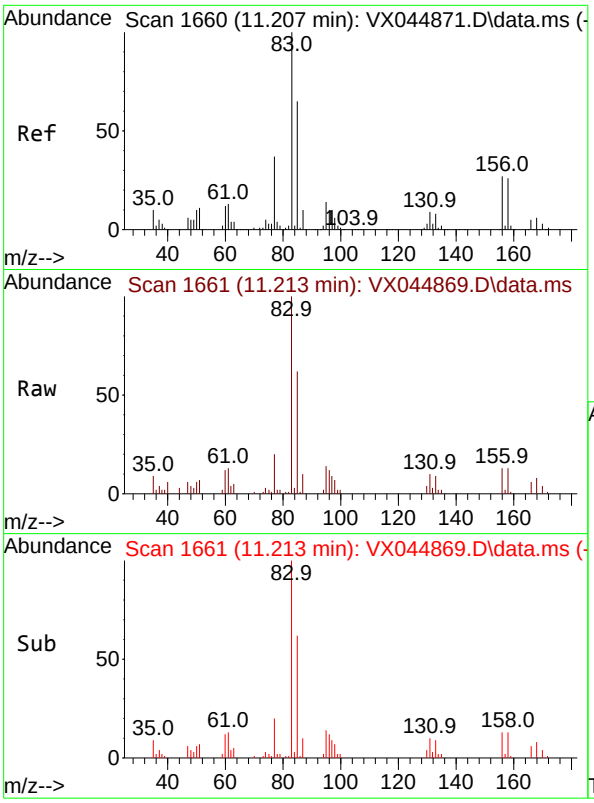


#74
N-amyl acetate
Concen: 4.786 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 16653

Ion	Ratio	Lower	Upper
43	100		
70	41.5	33.7	50.5
55	23.5	18.6	27.8
61	23.1	19.1	28.7



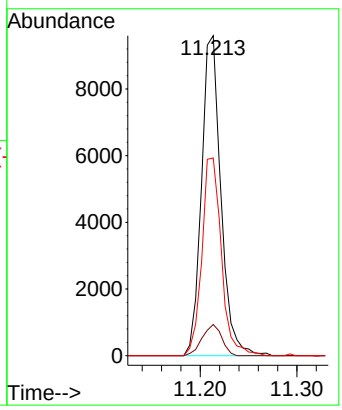


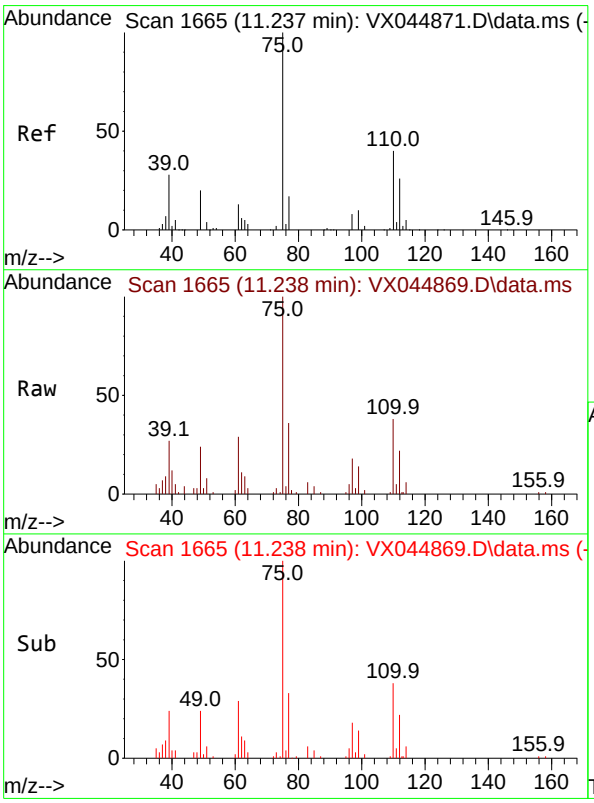
#75
1,1,2,2-Tetrachloroethane
Concen: 5.069 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 13394

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.5
85	62.1	32.3	96.8

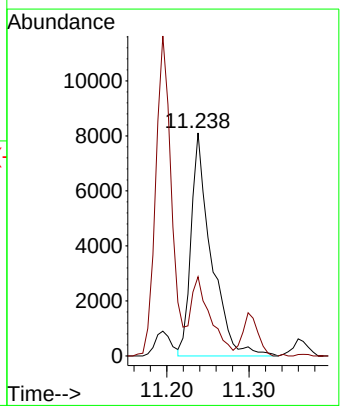


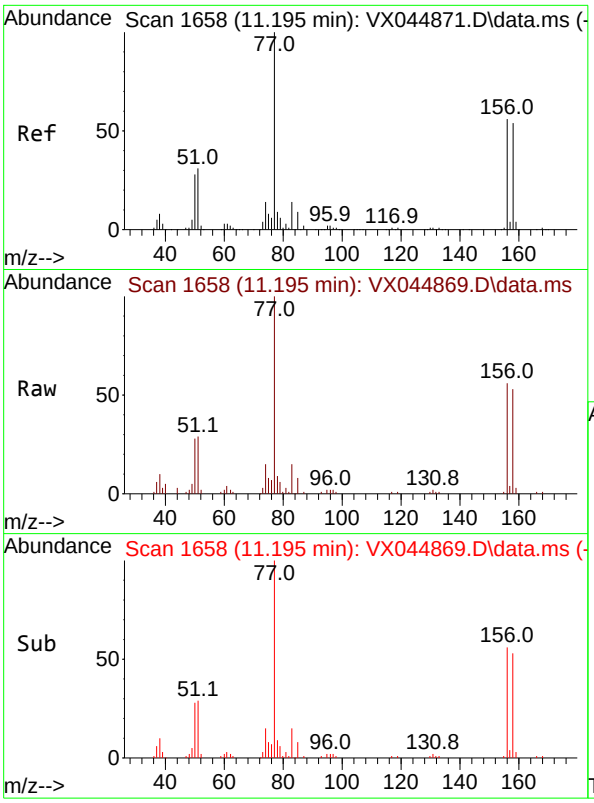


#76
1,2,3-Trichloropropane
Concen: 6.498 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 13757

Ion	Ratio	Lower	Upper
75	100		
77	35.3	21.9	65.7



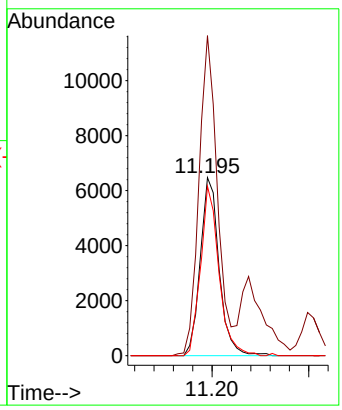


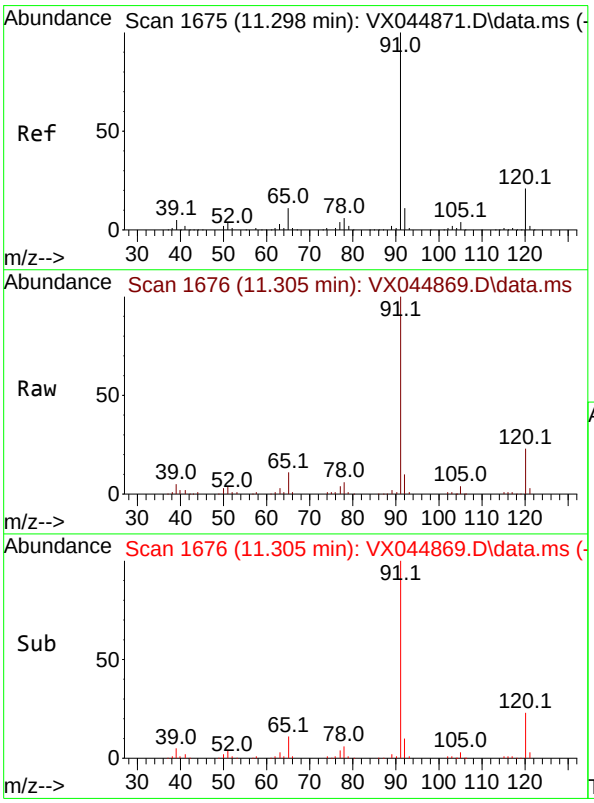
#77
Bromobenzene
Concen: 5.042 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 8789

Ion	Ratio	Lower	Upper
156	100		
77	174.1	88.4	265.3
158	92.9	48.4	145.2

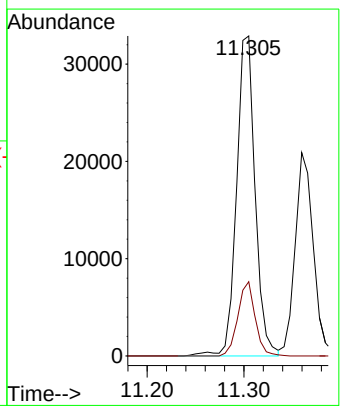


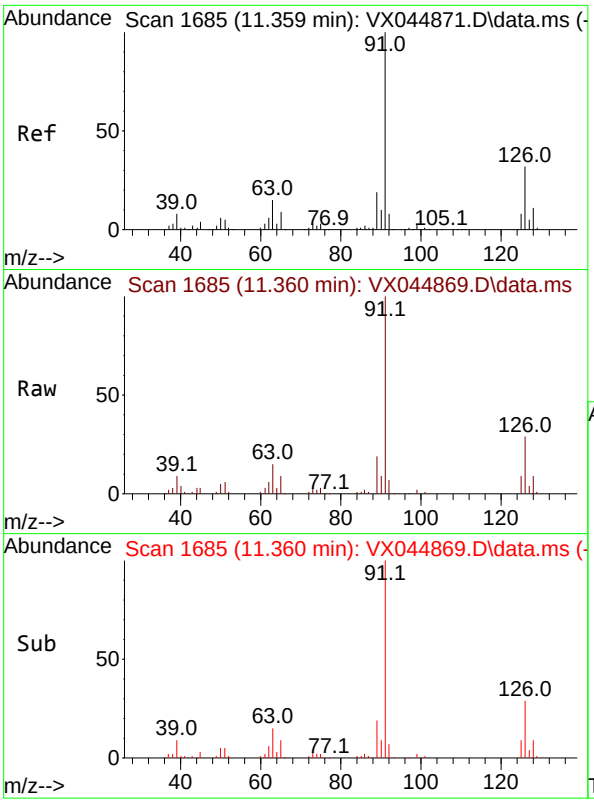


#78
n-propylbenzene
Concen: 4.949 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 43923

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.1	33.3



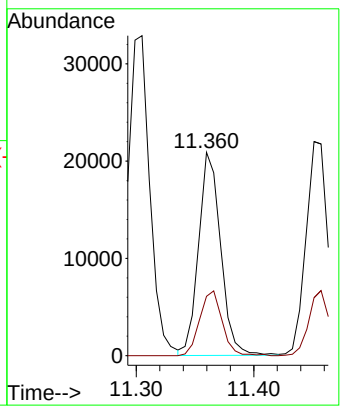


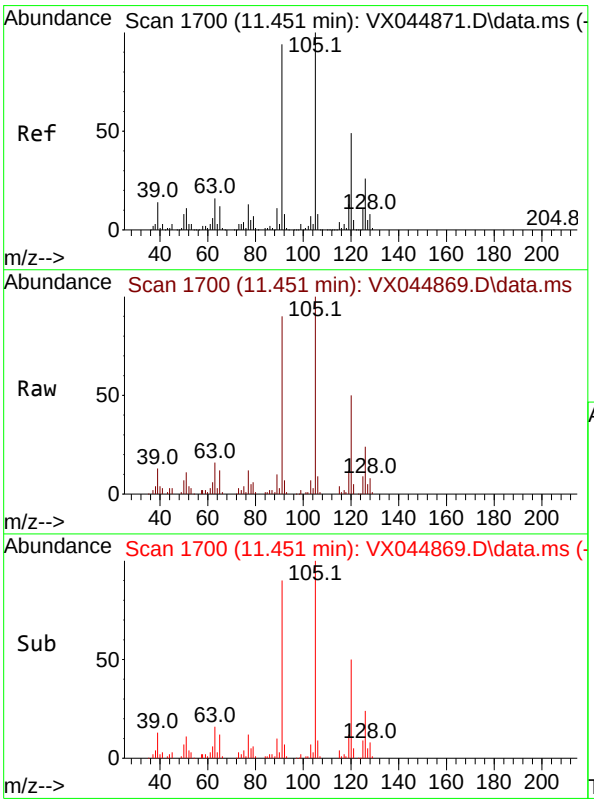
#79
2-Chlorotoluene
Concen: 5.007 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 27311

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6

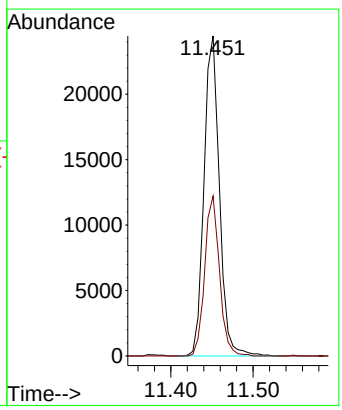


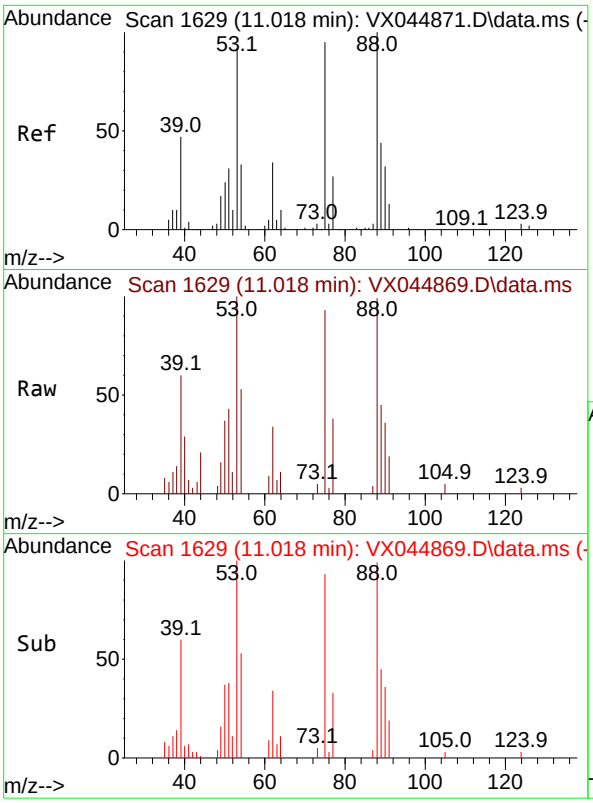


#80
1,3,5-Trimethylbenzene
Concen: 5.090 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31761

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0



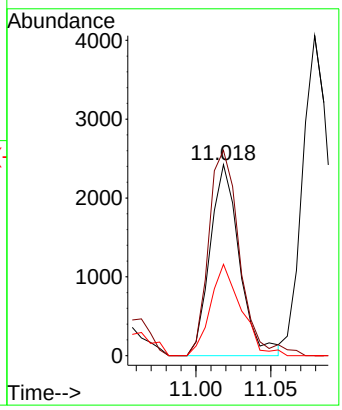


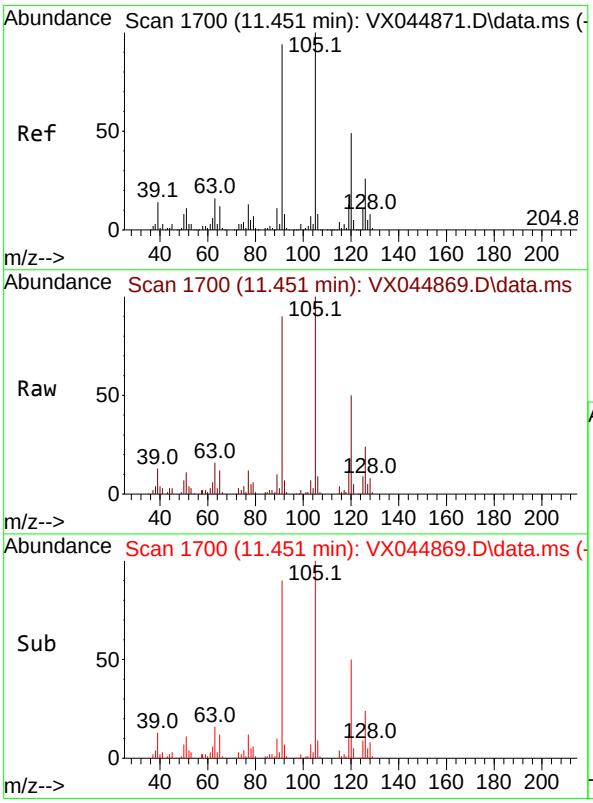
#81
trans-1,4-Dichloro-2-butene
Concen: 4.013 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 3303

Ion	Ratio	Lower	Upper
75	100		
53	113.7	78.0	117.0
89	50.2	36.6	54.8

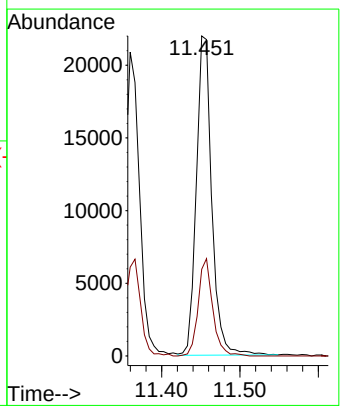


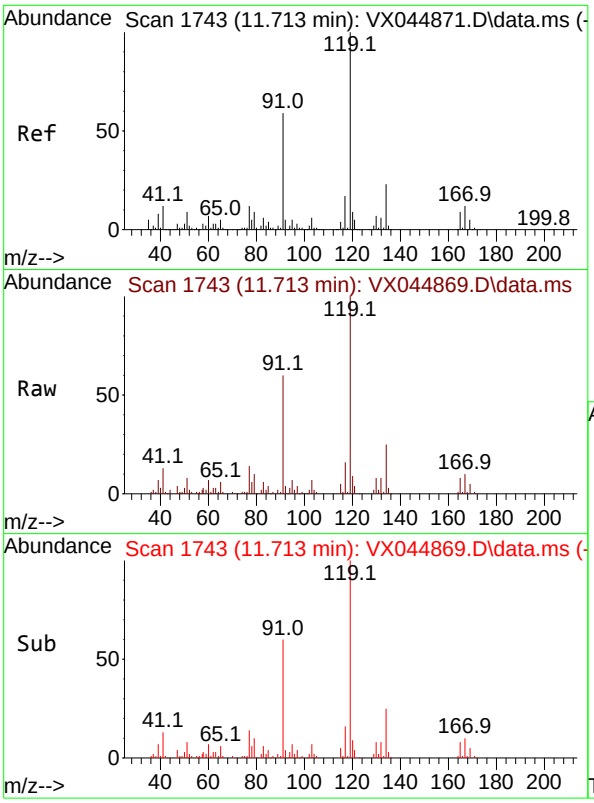


#82
4-Chlorotoluene
Concen: 4.994 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 30138

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6



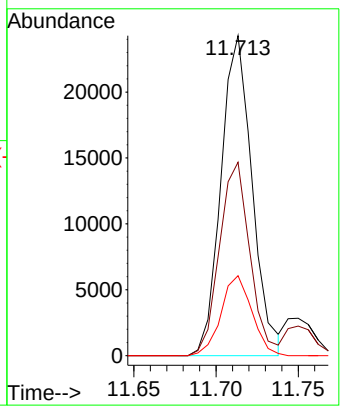


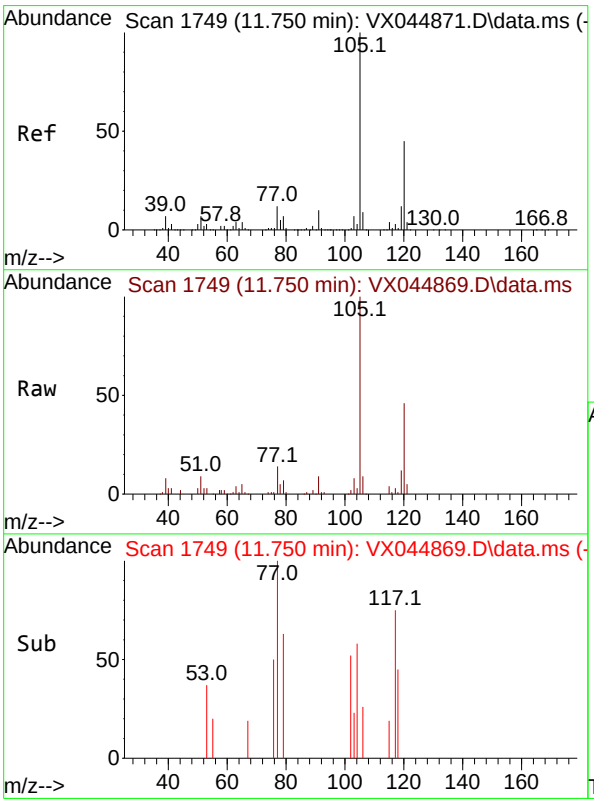
#83
tert-Butylbenzene
Concen: 5.068 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 31992

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.1	87.4
134	24.7	11.5	34.5

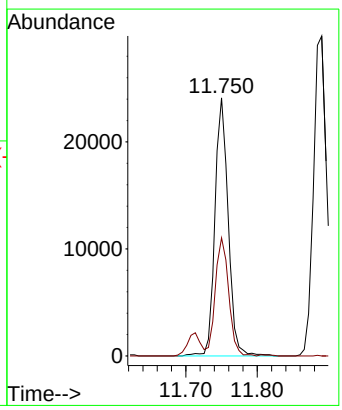


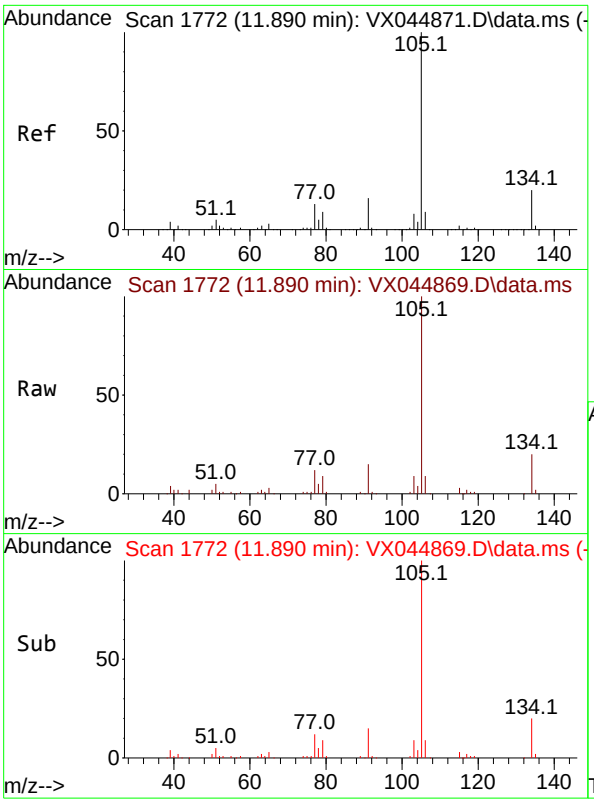


#84
1,2,4-Trimethylbenzene
Concen: 5.042 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31053

Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.4	67.0



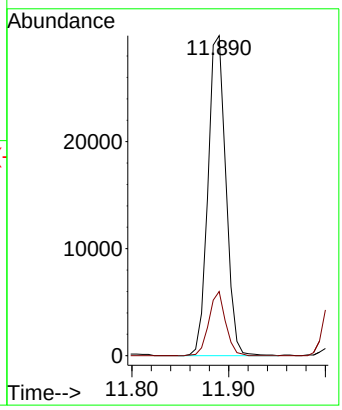


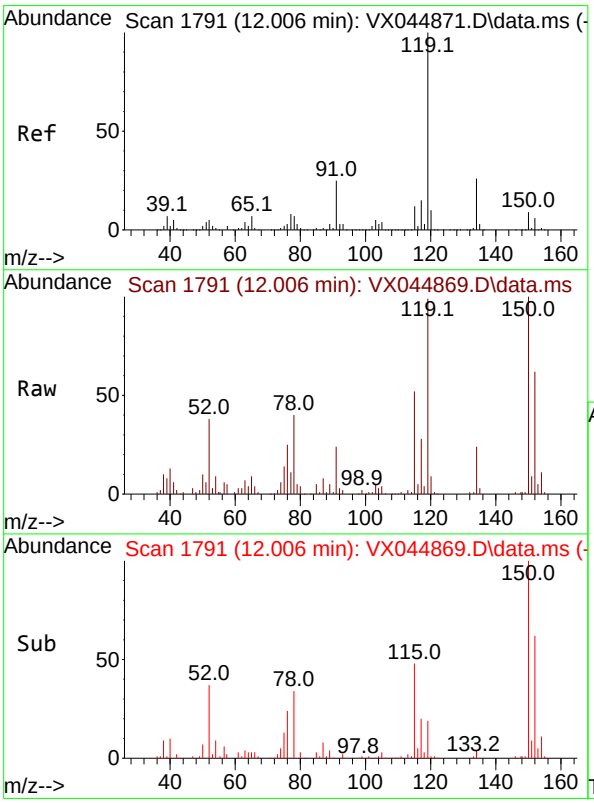
#85
sec-Butylbenzene
Concen: 4.917 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 38437

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.3

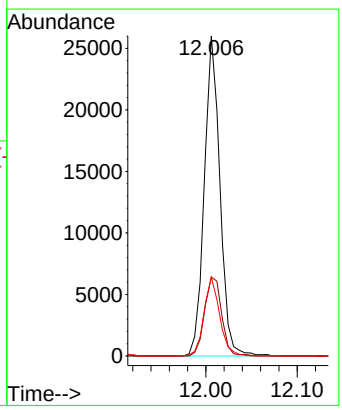


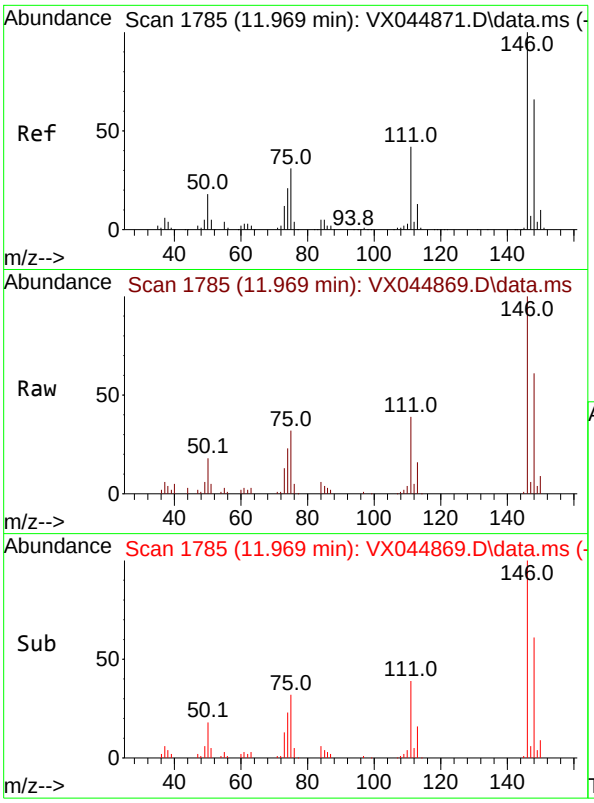


#86
p-Isopropyltoluene
Concen: 4.905 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:119 Resp: 30835

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.0	38.9
91	24.6	12.1	36.3



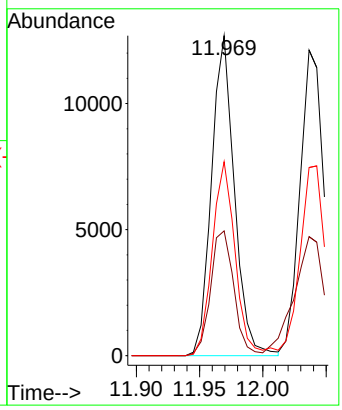


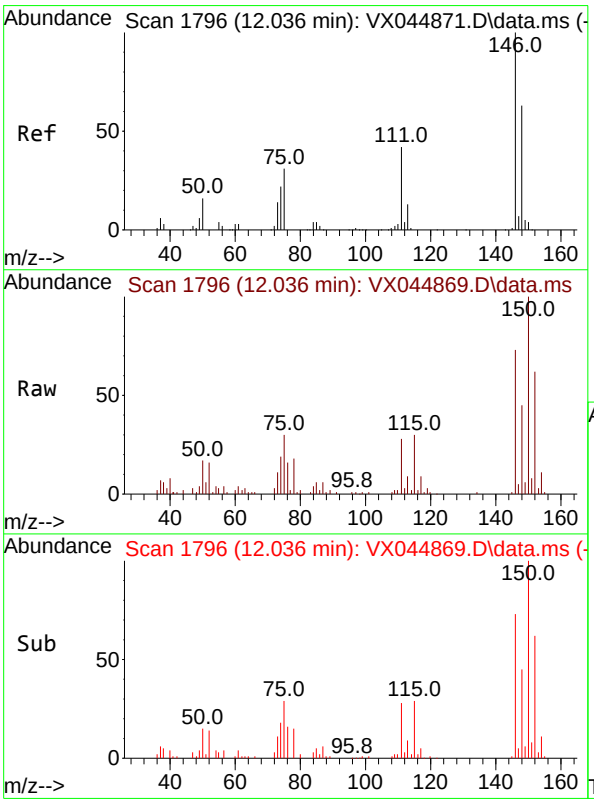
#87
1,3-Dichlorobenzene
Concen: 4.971 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 15935

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.2	63.6
148	60.0	32.5	97.5

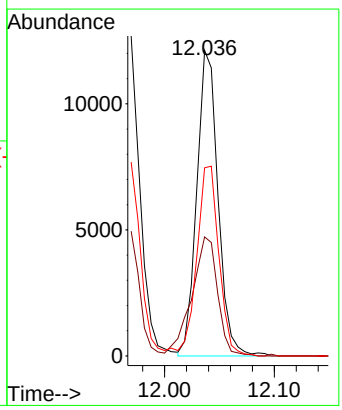


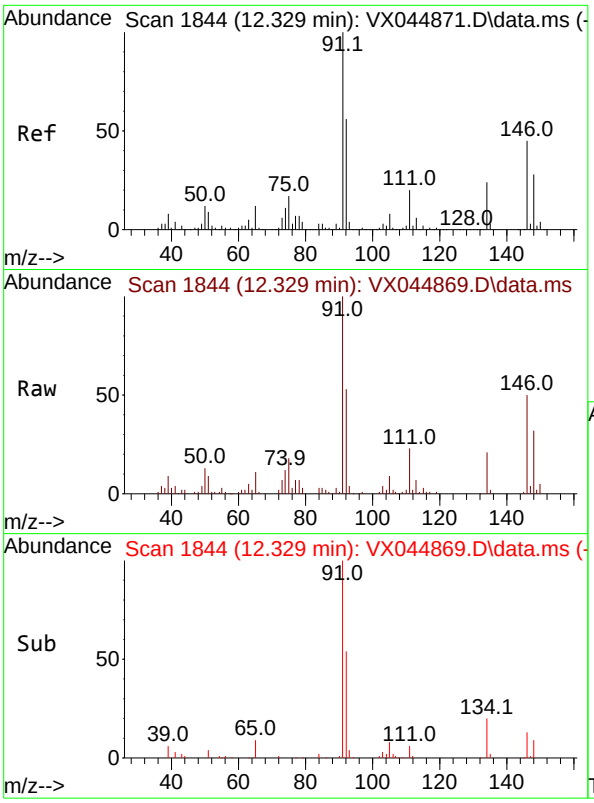


#88
1,4-Dichlorobenzene
Concen: 5.043 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:146 Resp: 16347

Ion	Ratio	Lower	Upper
146	100		
111	47.4	20.4	61.3
148	65.3	32.0	96.0



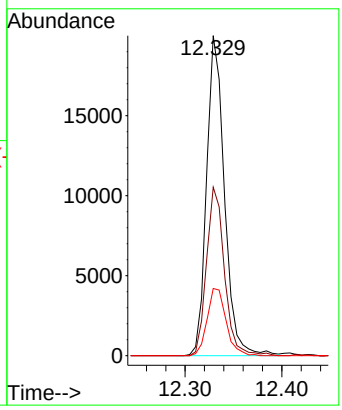


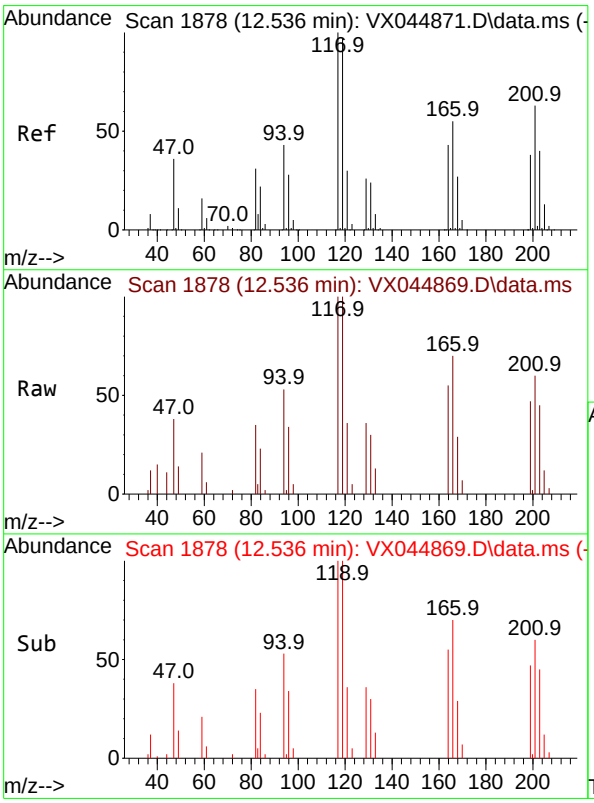
#89
n-Butylbenzene
Concen: 4.630 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 25747

Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.2	81.6
134	22.3	12.1	36.3

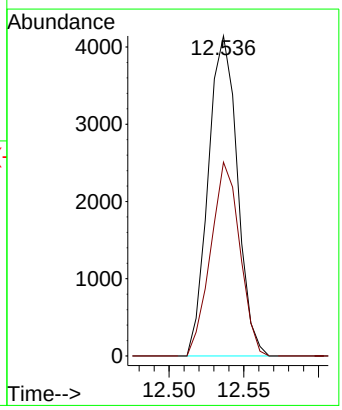


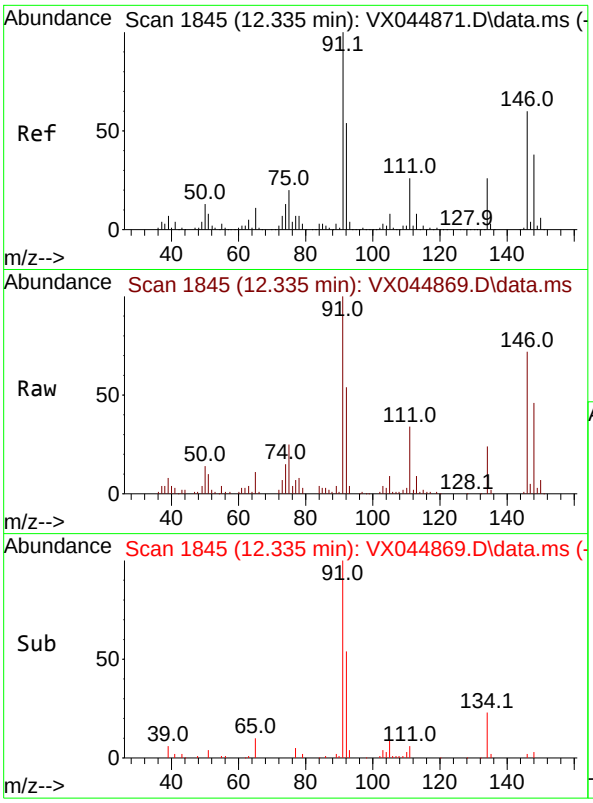


#90
Hexachloroethane
Concen: 4.775 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 5620

Ion	Ratio	Lower	Upper
117	100		
201	60.6	32.5	97.5



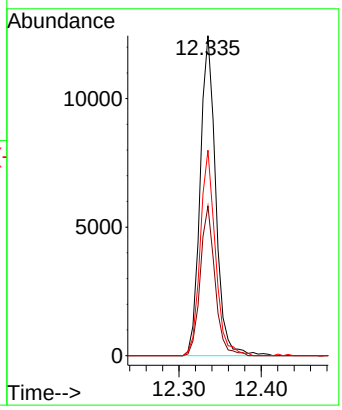


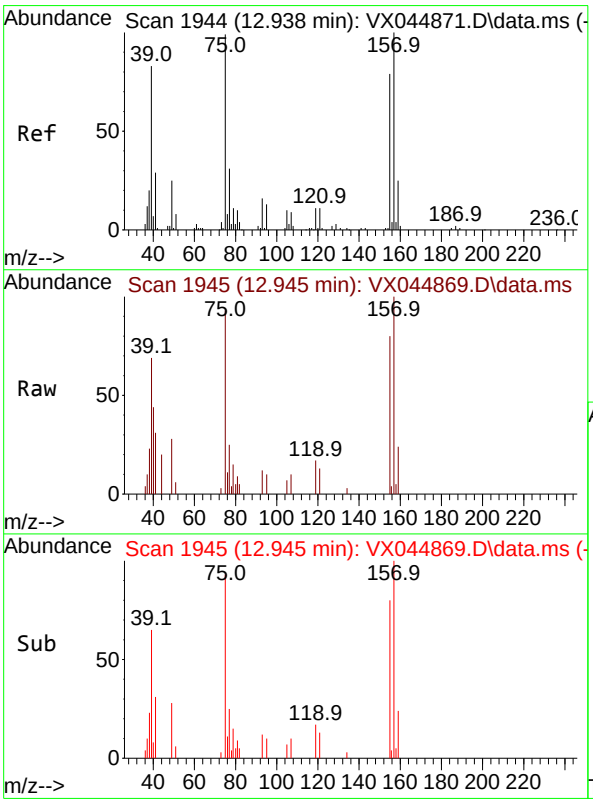
#91
1,2-Dichlorobenzene
Concen: 5.193 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 16362

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.8	65.4
148	62.7	31.9	95.9

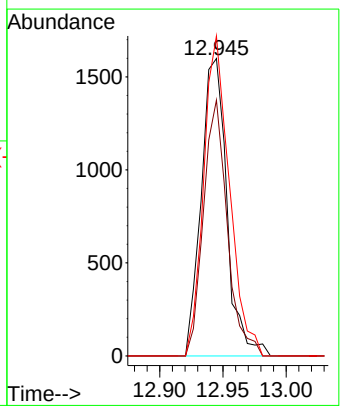


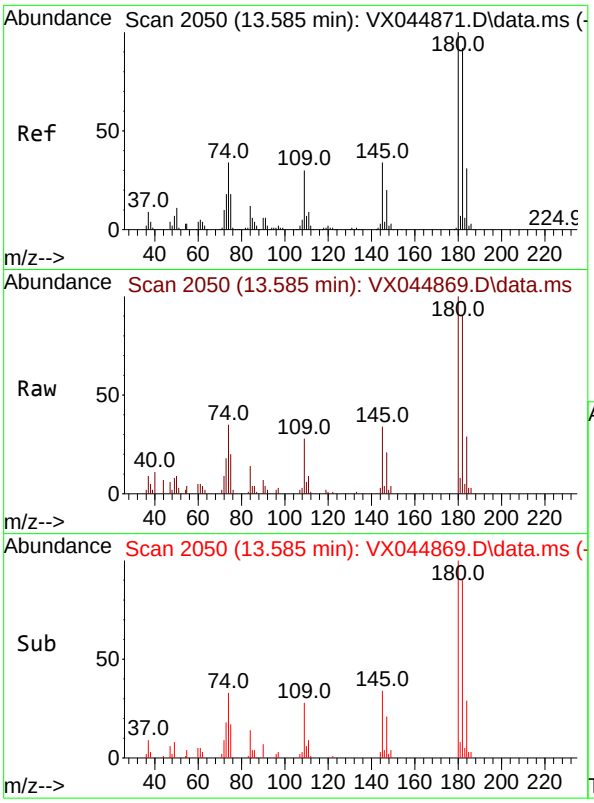


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.674 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 2254

Ion	Ratio	Lower	Upper
75	100		
155	80.0	40.5	121.4
157	108.1	51.4	154.3



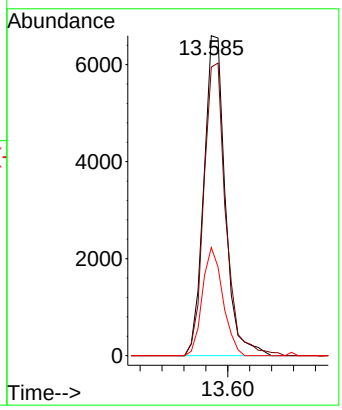


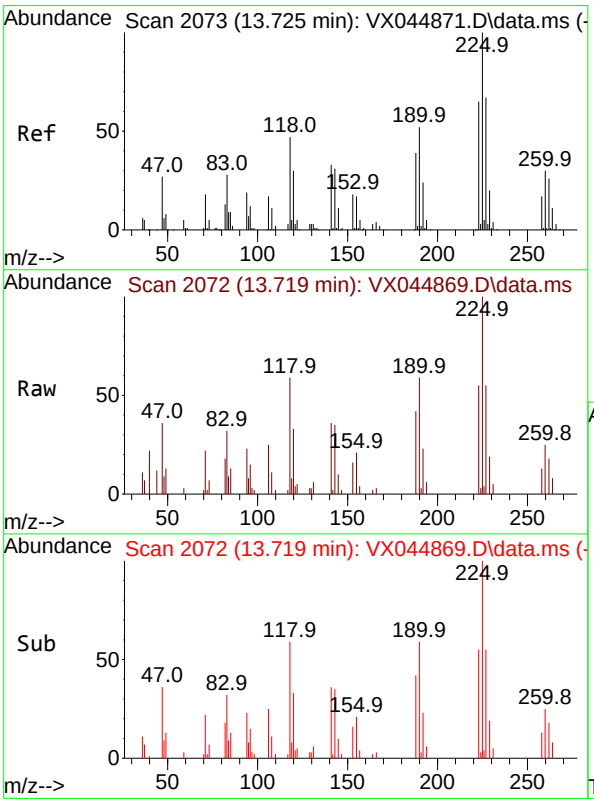
#93
1,2,4-Trichlorobenzene
Concen: 4.680 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 8923

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.6	142.8
145	32.3	16.4	49.1

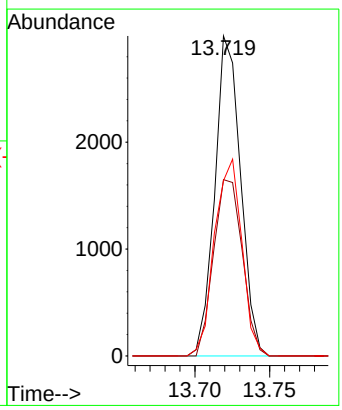


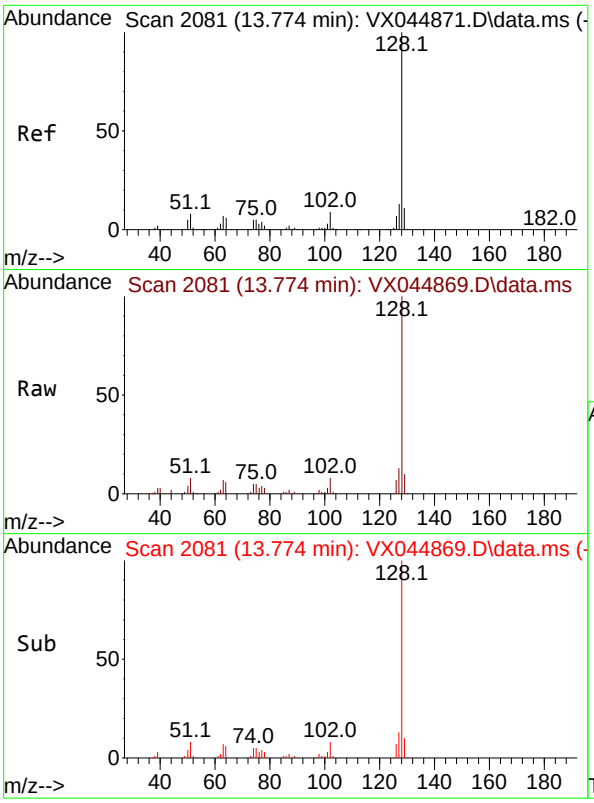


#94
Hexachlorobutadiene
Concen: 4.750 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:225 Resp: 3595

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.4	94.2
227	65.1	32.3	96.8



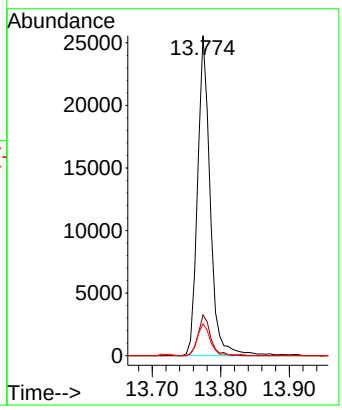


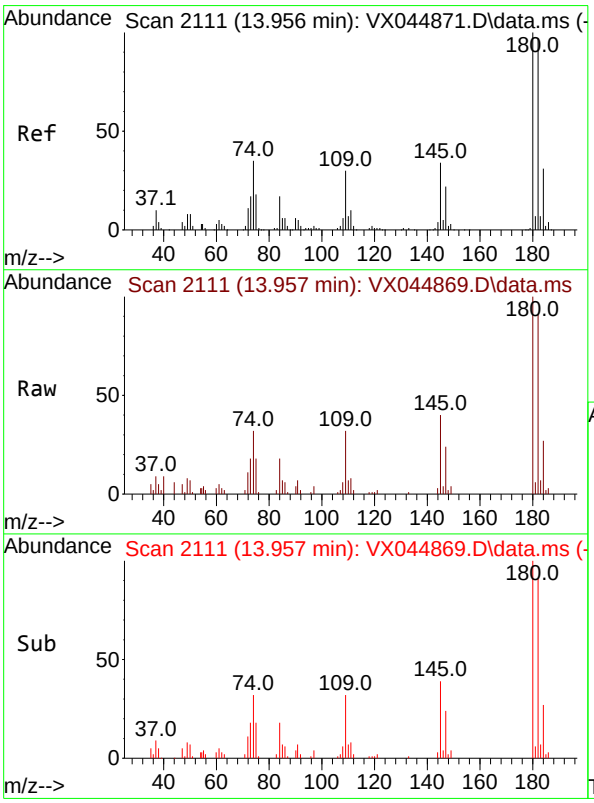
#95
Naphthalene
Concen: 4.756 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 32776

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.3	8.9	13.3

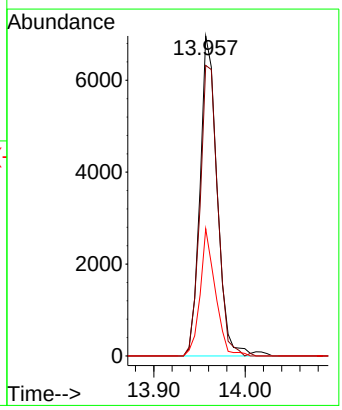




#96
1,2,3-Trichlorobenzene
Concen: 4.733 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:180 Resp: 9093

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.9	143.6
145	35.0	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	129532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	234445	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	207667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	37195	19.616	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.240%#		
35) Dibromofluoromethane	5.379	113	30170	19.793	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	39.580%#		
50) Toluene-d8	8.647	98	117127	20.321	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	40.640%#		
62) 4-Bromofluorobenzene	11.079	95	38475	19.800	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	39.600%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	37123	20.434	ug/l	98
3) Chloromethane	1.301	50	44666	20.200	ug/l	95
4) Vinyl Chloride	1.374	62	43901	20.494	ug/l	99
5) Bromomethane	1.593	94	13057	20.369	ug/l	99
6) Chloroethane	1.660	64	14523	16.522	ug/l	94
7) Trichlorofluoromethane	1.868	101	56805	20.969	ug/l	98
8) Diethyl Ether	2.130	74	20699	21.069	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	34593	21.135	ug/l	99
10) Methyl Iodide	2.441	142	44749	21.096	ug/l	99
11) Tert butyl alcohol	2.989	59	35834	101.870	ug/l	100
12) 1,1-Dichloroethene	2.307	96	34270	20.526	ug/l	99
13) Acrolein	2.233	56	33914	93.445	ug/l	99
14) Allyl chloride	2.654	41	61485	20.377	ug/l	98
15) Acrylonitrile	3.063	53	98518	104.896	ug/l	98
16) Acetone	2.380	43	77078	101.119	ug/l	98
17) Carbon Disulfide	2.502	76	92552	20.216	ug/l	99
18) Methyl Acetate	2.703	43	47970	19.943	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	110377	20.779	ug/l	98
20) Methylene Chloride	2.782	84	38390	20.562	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	34064	20.730	ug/l	92
22) Diisopropyl ether	3.757	45	120300	21.074	ug/l	93
23) Vinyl Acetate	3.715	43	490239	105.341	ug/l	99
24) 1,1-Dichloroethane	3.599	63	66942	20.958	ug/l	99
25) 2-Butanone	4.556	43	130481	105.417	ug/l	96
26) 2,2-Dichloropropane	4.471	77	51803	20.451	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	42096	21.328	ug/l	97
28) Bromochloromethane	4.885	49	31474	20.504	ug/l	99
29) Tetrahydrofuran	5.001	42	86875	105.700	ug/l	99
30) Chloroform	5.087	83	65721	21.217	ug/l	98
31) Cyclohexane	5.458	56	60814	20.653	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	54450	20.724	ug/l	100
36) 1,1-Dichloropropene	5.684	75	45991	20.913	ug/l	99
37) Ethyl Acetate	4.715	43	51242	20.949	ug/l	99
38) Carbon Tetrachloride	5.666	117	44802	20.790	ug/l	99
39) Methylcyclohexane	7.373	83	62505	21.985	ug/l	98
40) Benzene	6.031	78	147912	21.540	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	27347	20.887	ug/l		94
42) 1,2-Dichloroethane	6.086	62	47095	21.519	ug/l		100
43) Isopropyl Acetate	6.336	43	84306	21.343	ug/l		99
44) Trichloroethene	7.123	130	34390	21.910	ug/l		96
45) 1,2-Dichloropropane	7.428	63	36510	21.371	ug/l		99
46) Dibromomethane	7.574	93	25300	21.354	ug/l		99
47) Bromodichloromethane	7.818	83	48202	21.012	ug/l		97
48) Methyl methacrylate	7.690	41	39747	21.341	ug/l		100
49) 1,4-Dioxane	7.665	88	17153	429.262	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	263394	109.684	ug/l		99
52) Toluene	8.714	92	89726	21.940	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	48613	20.940	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	55026	21.259	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	33930	21.582	ug/l		98
56) Ethyl methacrylate	9.116	69	54674	21.533	ug/l		99
57) 1,3-Dichloropropane	9.305	76	60079	21.841	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	133072	106.736	ug/l		100
59) 2-Hexanone	9.427	43	190449	110.072	ug/l		98
60) Dibromochloromethane	9.519	129	35706	21.237	ug/l		99
61) 1,2-Dibromoethane	9.604	107	34463	21.628	ug/l		100
64) Tetrachloroethene	9.269	164	28519	21.776	ug/l		97
65) Chlorobenzene	10.073	112	94695	21.230	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	30344	21.136	ug/l		99
67) Ethyl Benzene	10.189	91	167865	21.327	ug/l		100
68) m/p-Xylenes	10.299	106	125271	43.144	ug/l		99
69) o-Xylene	10.640	106	62087	21.310	ug/l		97
70) Styrene	10.653	104	103740	22.101	ug/l		98
71) Bromoform	10.799	173	22592	21.086	ug/l	#	99
73) Isopropylbenzene	10.957	105	160147	21.597	ug/l		99
74) N-amyl acetate	10.842	43	70542	21.023	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	52967	20.787	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	55632	27.246	ug/l		83
77) Bromobenzene	11.195	156	36021	21.426	ug/l		97
78) n-propylbenzene	11.299	91	183212	21.406	ug/l		99
79) 2-Chlorotoluene	11.360	91	111782	21.250	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	130526	21.691	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	15375	19.370	ug/l		96
82) 4-Chlorotoluene	11.451	91	122303	21.016	ug/l		100
83) tert-Butylbenzene	11.713	119	130358	21.414	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	130211	21.924	ug/l		100
85) sec-Butylbenzene	11.890	105	162875	21.607	ug/l		100
86) p-Isopropyltoluene	12.006	119	130643	21.551	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	64141	20.747	ug/l		100
88) 1,4-Dichlorobenzene	12.037	146	64889	20.758	ug/l		98
89) n-Butylbenzene	12.329	91	113705	21.202	ug/l		100
90) Hexachloroethane	12.536	117	23153	20.398	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	64940	21.373	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9873	21.230	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	37308	20.292	ug/l		99
94) Hexachlorobutadiene	13.725	225	15312	20.979	ug/l		96
95) Naphthalene	13.774	128	142902	21.502	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	38389	20.722	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

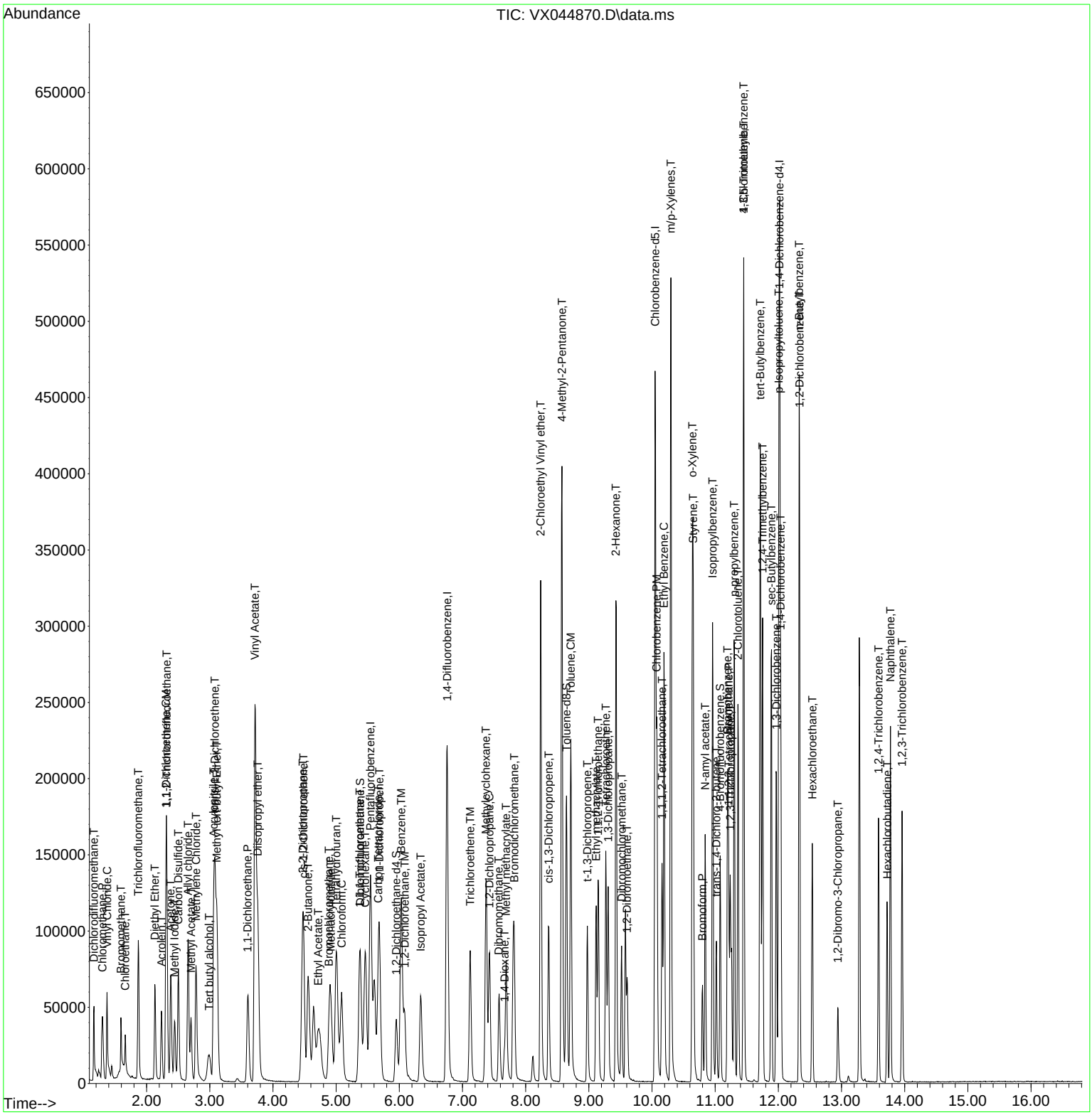
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

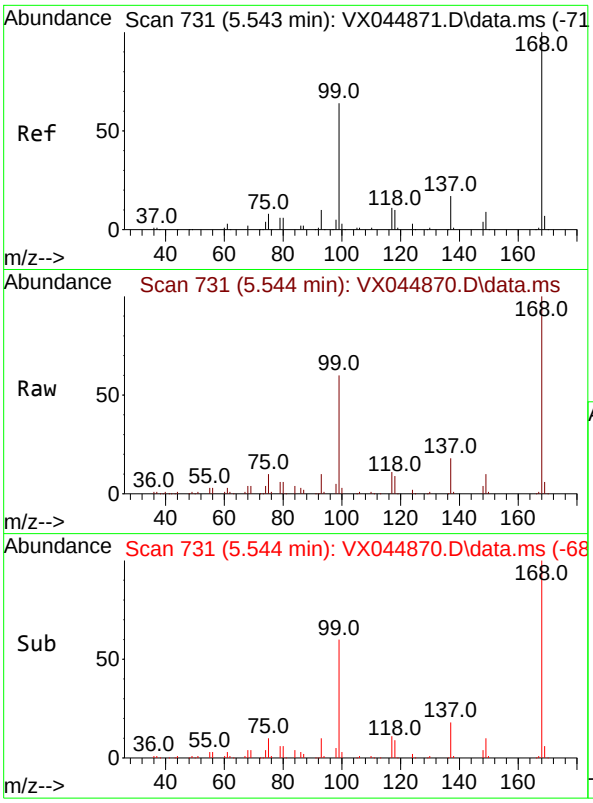
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



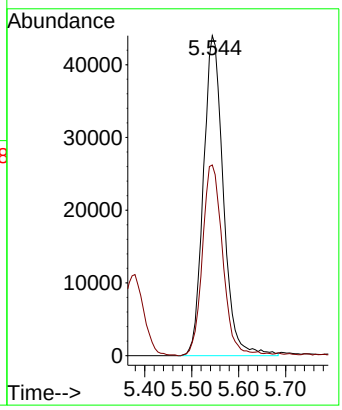


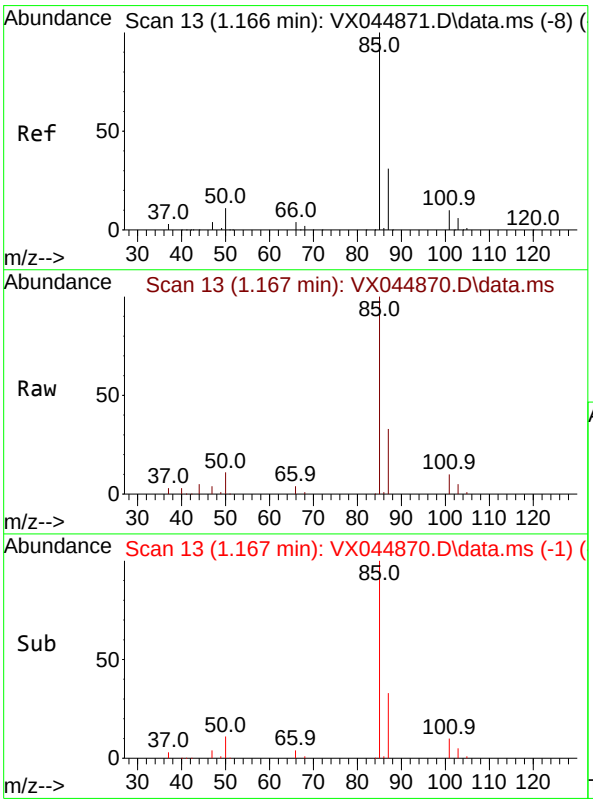
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 129532

Ion	Ratio	Lower	Upper
168	100		
99	59.6	51.2	76.8

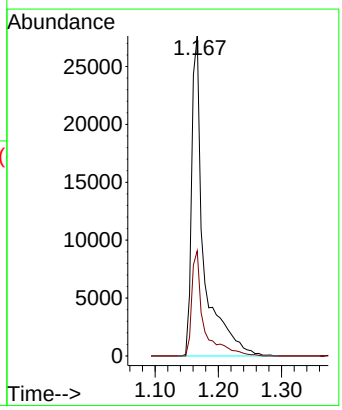


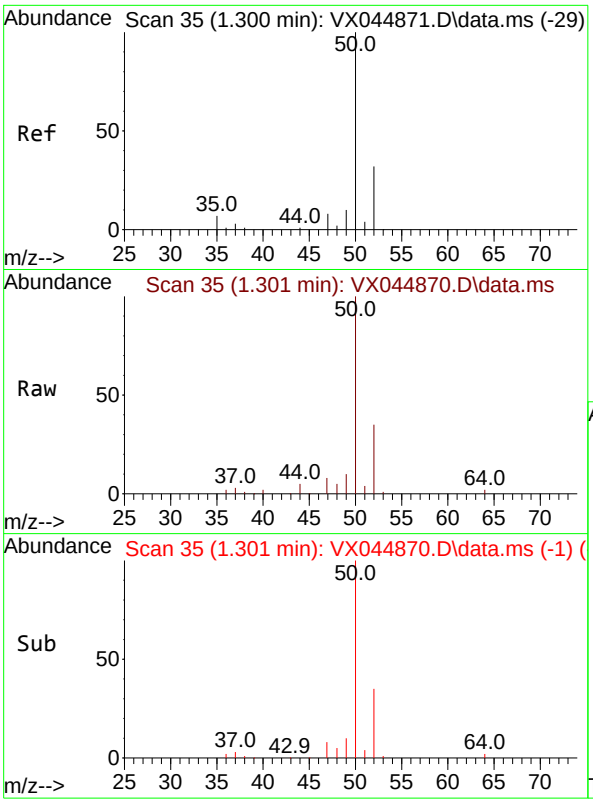


#2
Dichlorodifluoromethane
Concen: 20.434 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 85 Resp: 37123

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3



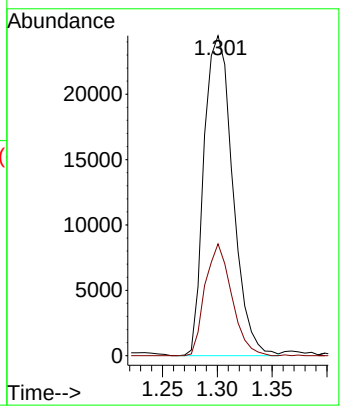


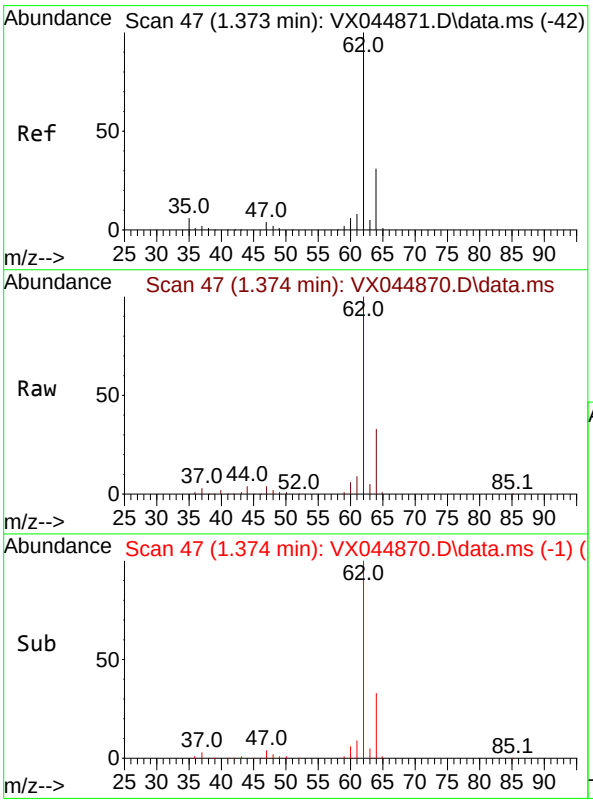
#3
Chloromethane
Concen: 20.200 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 44666

Ion	Ratio	Lower	Upper
50	100		
52	35.0	25.9	38.9

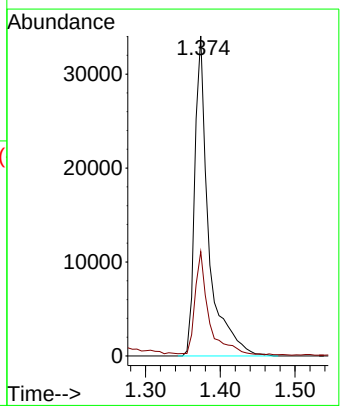


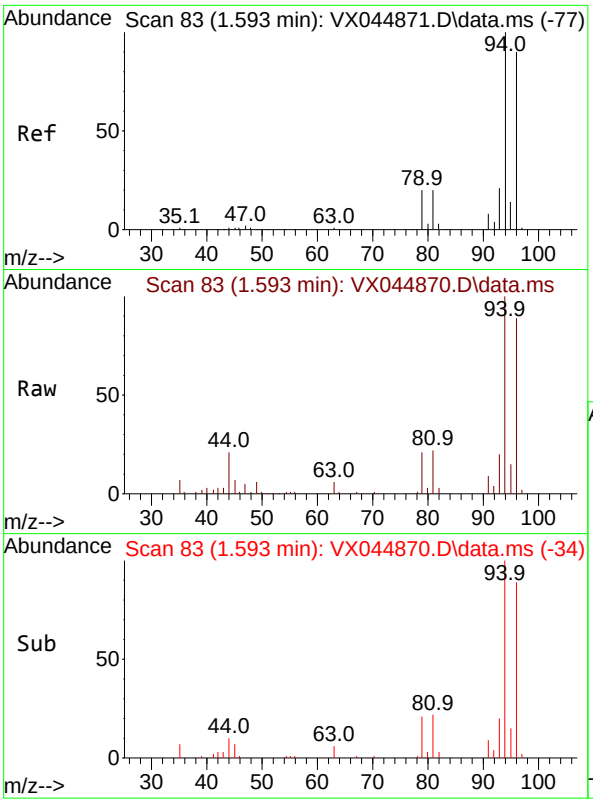


#4
Vinyl Chloride
Concen: 20.494 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 43901

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0



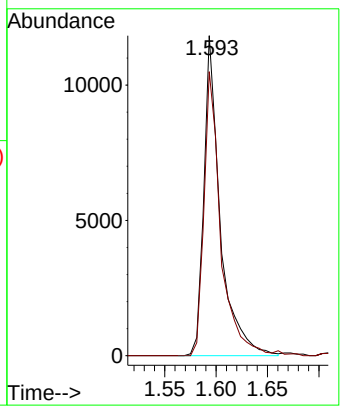


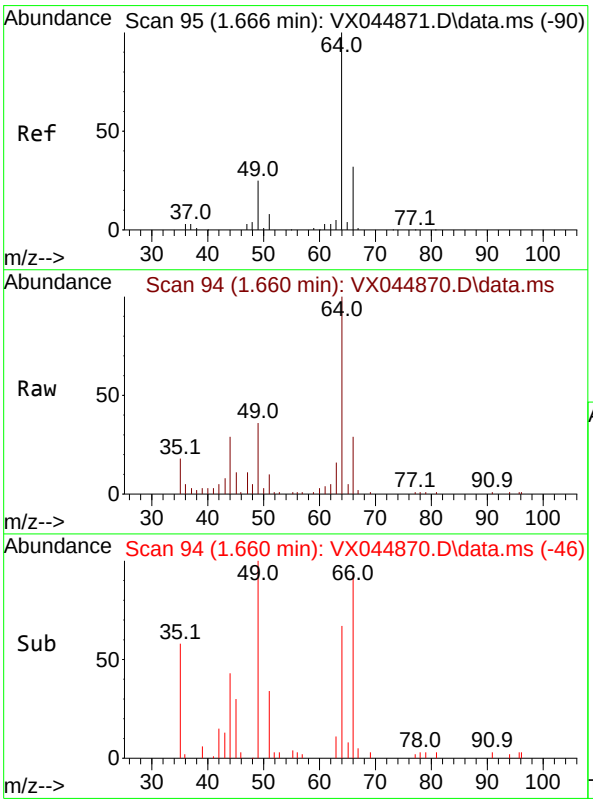
#5
Bromomethane
Concen: 20.369 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 13057

Ion	Ratio	Lower	Upper
94	100		
96	88.8	71.6	107.4

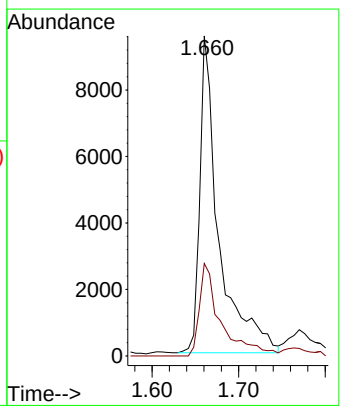


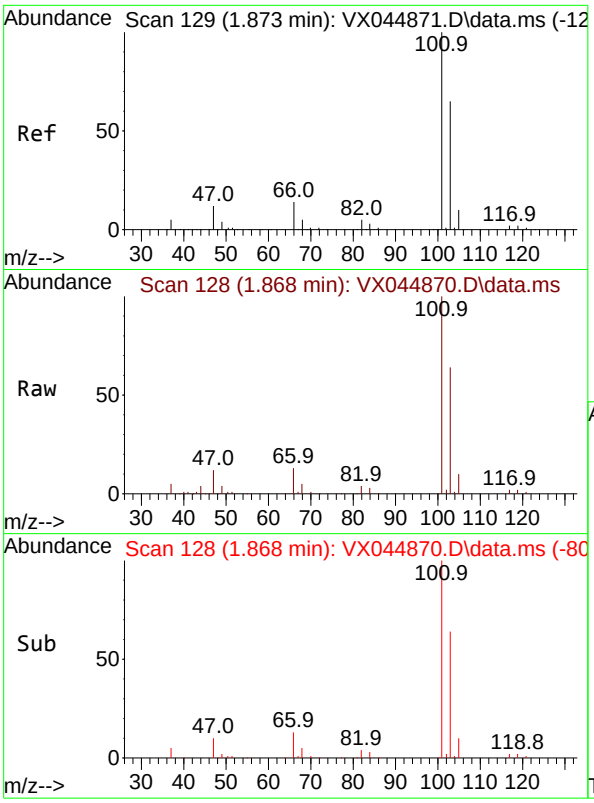


#6
Chloroethane
Concen: 16.522 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 64 Resp: 14523

Ion	Ratio	Lower	Upper
64	100		
66	29.2	25.9	38.9



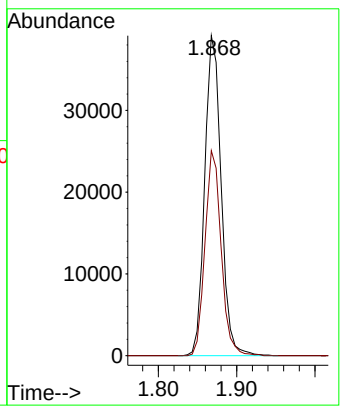


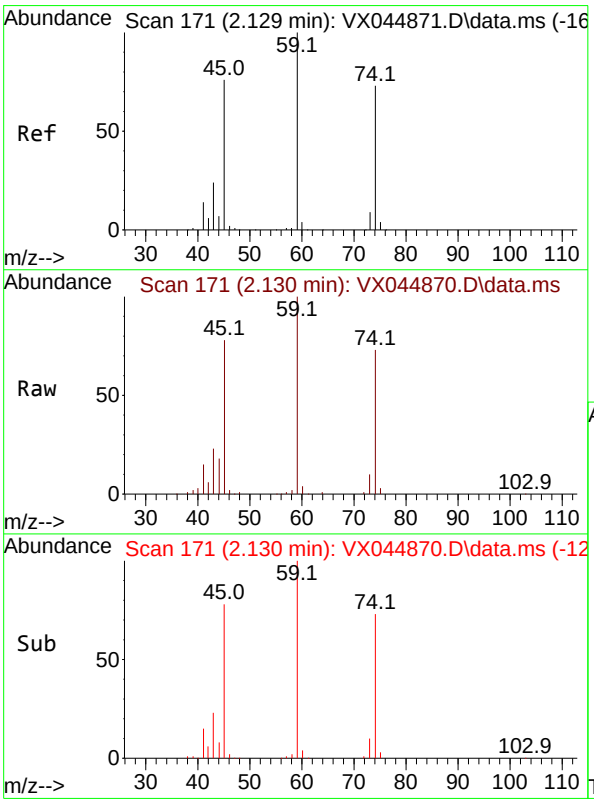
#7
Trichlorofluoromethane
Concen: 20.969 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 56805

Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.4	78.6

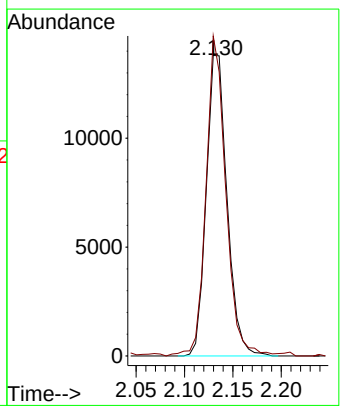


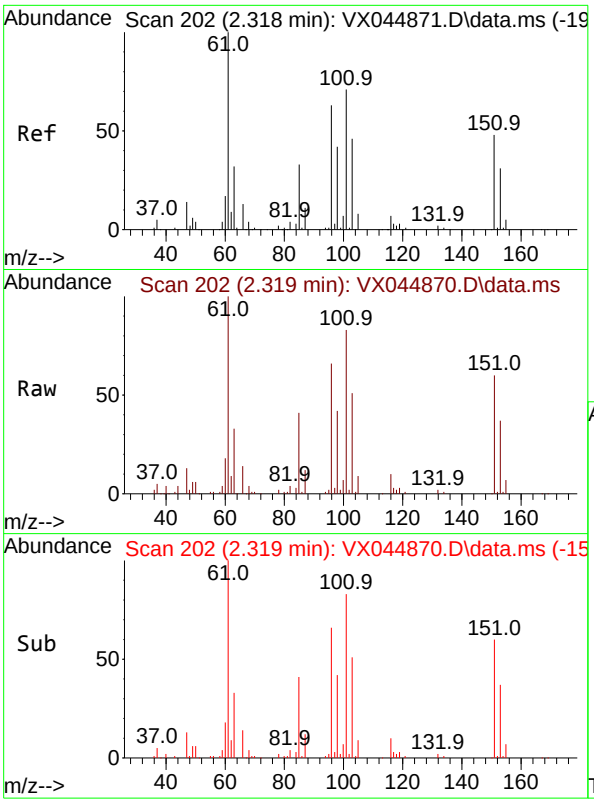


#8
Diethyl Ether
Concen: 21.069 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 74 Resp: 20699

Ion	Ratio	Lower	Upper
74	100		
45	101.2	51.1	153.4



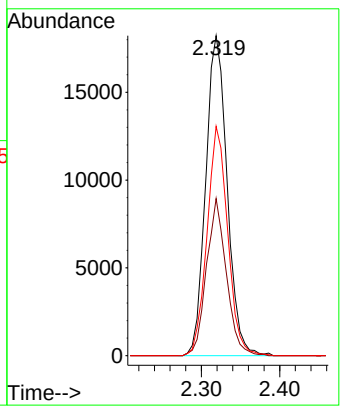


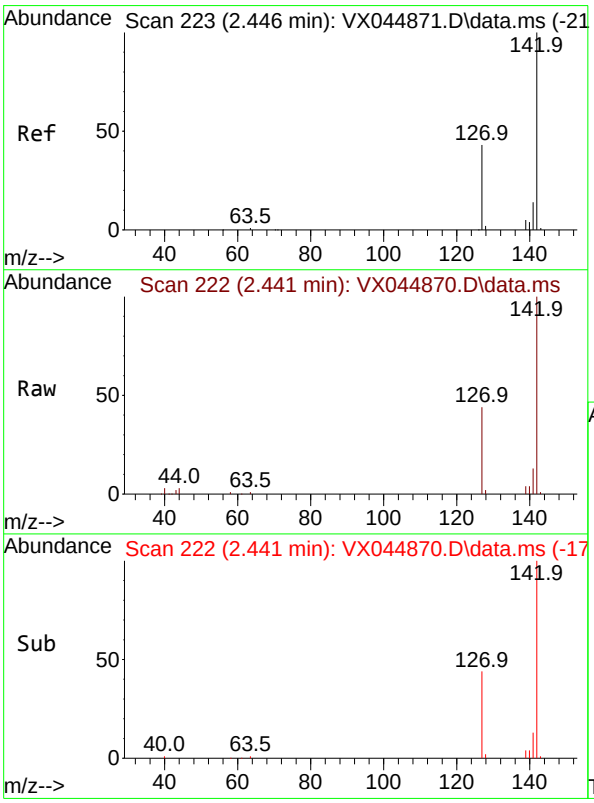
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.135 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 34593

Ion	Ratio	Lower	Upper
101	100		
85	45.7	35.7	53.5
151	69.4	56.0	84.0

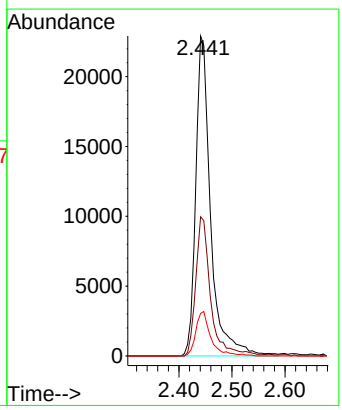


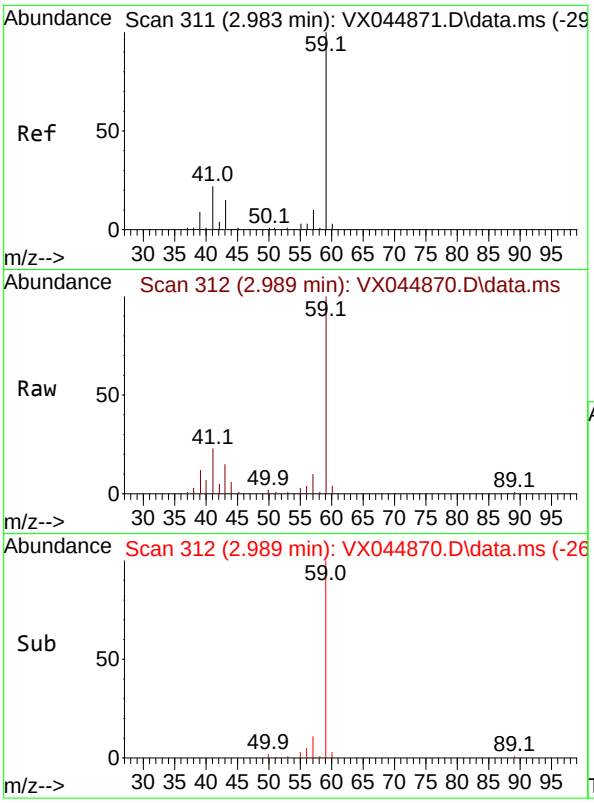


#10
Methyl Iodide
Concen: 21.096 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:142 Resp: 44749

Ion	Ratio	Lower	Upper
142	100		
127	43.4	34.3	51.5
141	14.0	11.4	17.2



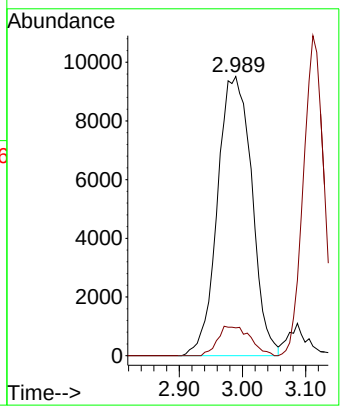


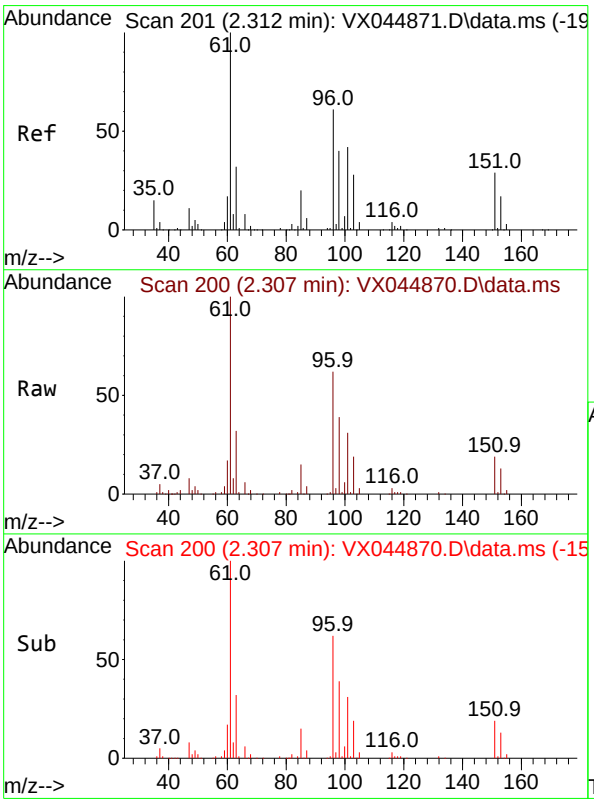
#11
Tert butyl alcohol
Concen: 101.870 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 35834

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1

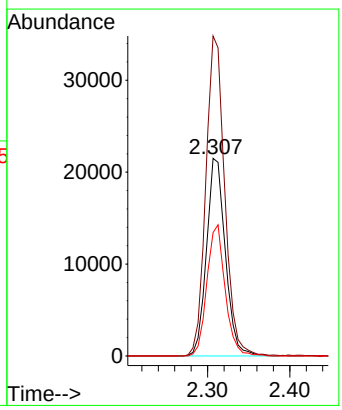


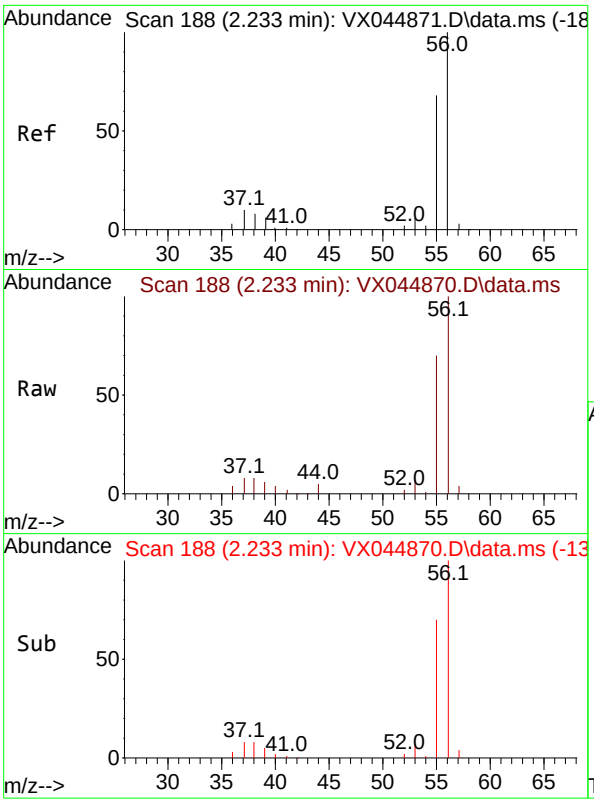


#12
1,1-Dichloroethene
Concen: 20.526 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 96 Resp: 34270

Ion	Ratio	Lower	Upper
96	100		
61	161.9	130.2	195.4
98	62.4	52.2	78.4



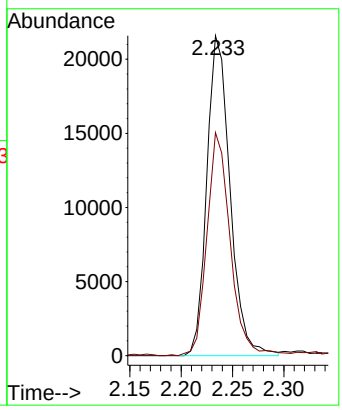


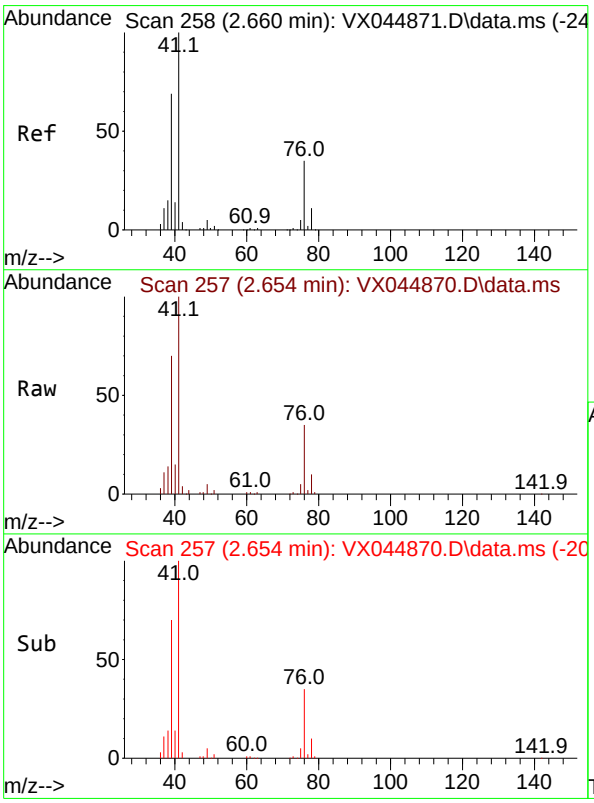
#13
Acrolein
Concen: 93.445 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 33914

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5

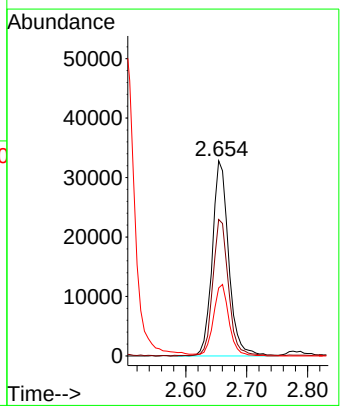


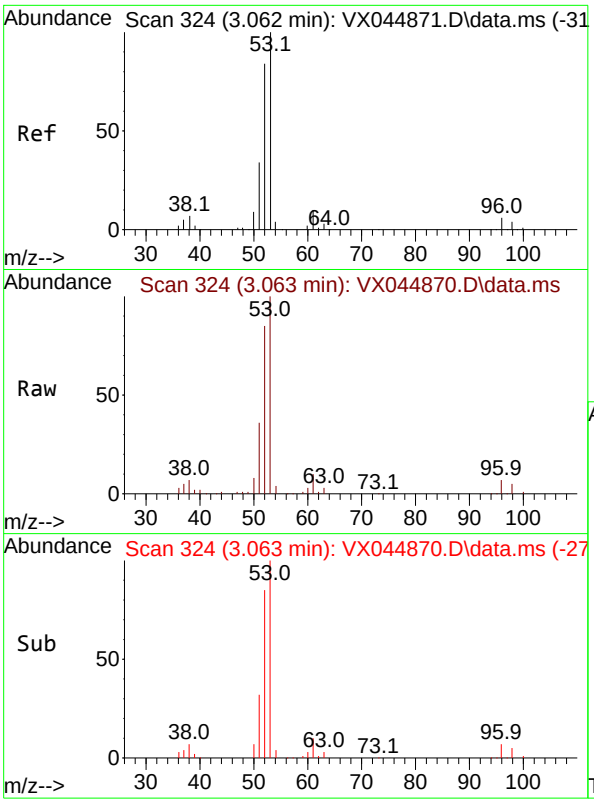


#14
Allyl chloride
Concen: 20.377 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 61485

Ion	Ratio	Lower	Upper
41	100		
39	65.8	51.4	77.2
76	34.9	27.0	40.4



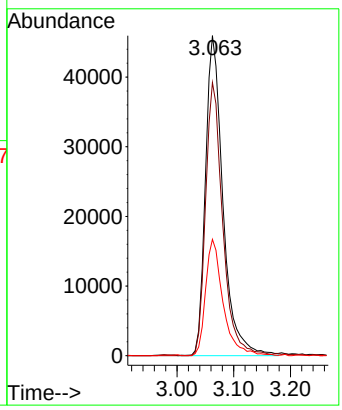


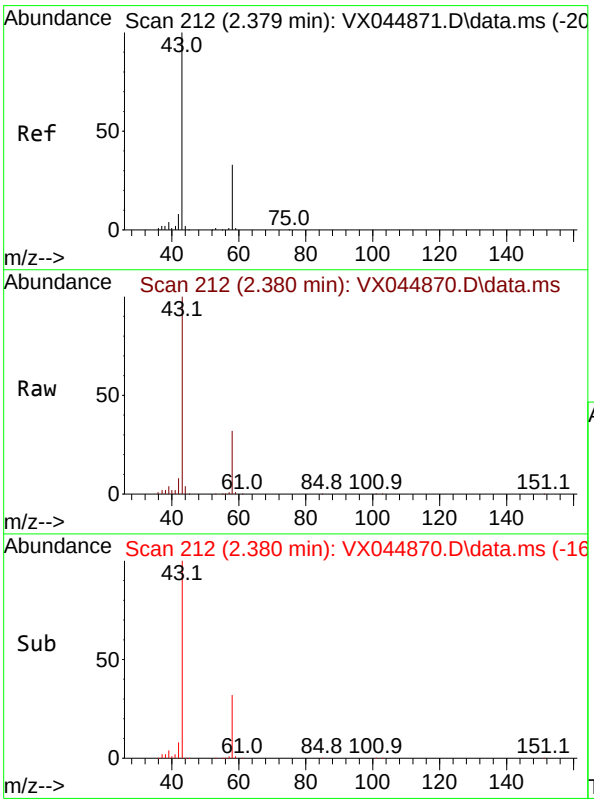
#15
Acrylonitrile
Concen: 104.896 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 98518

Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.0	97.6
51	36.3	28.0	42.0

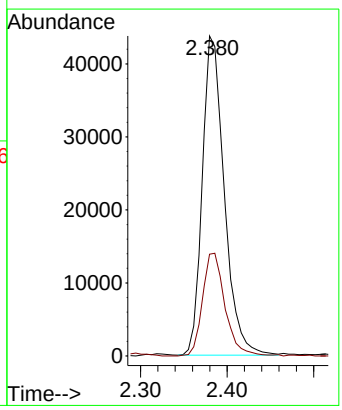


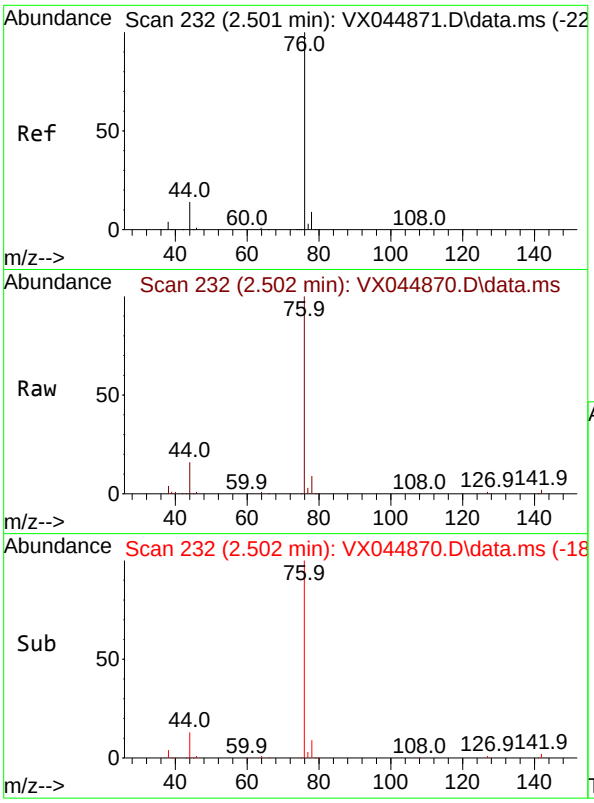


#16
Acetone
Concen: 101.119 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 77078

Ion	Ratio	Lower	Upper
43	100		
58	31.9	26.5	39.7



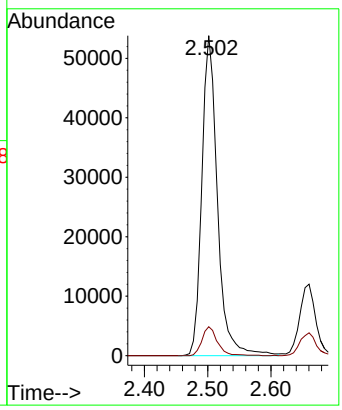


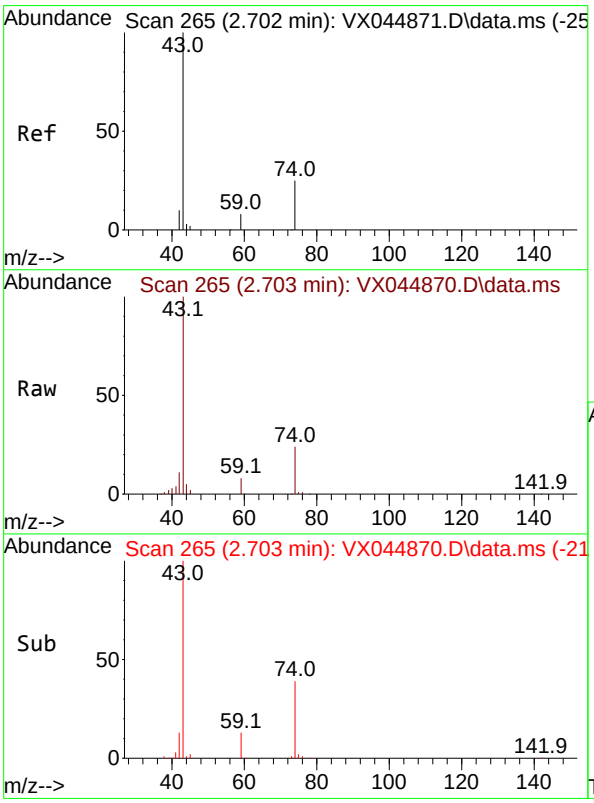
#17
Carbon Disulfide
Concen: 20.216 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 92552

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.4

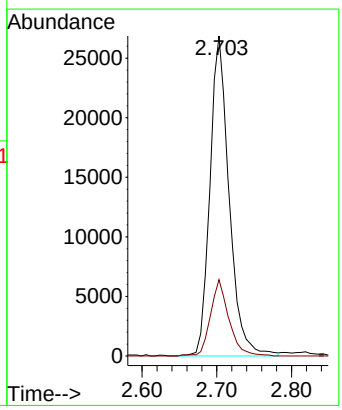


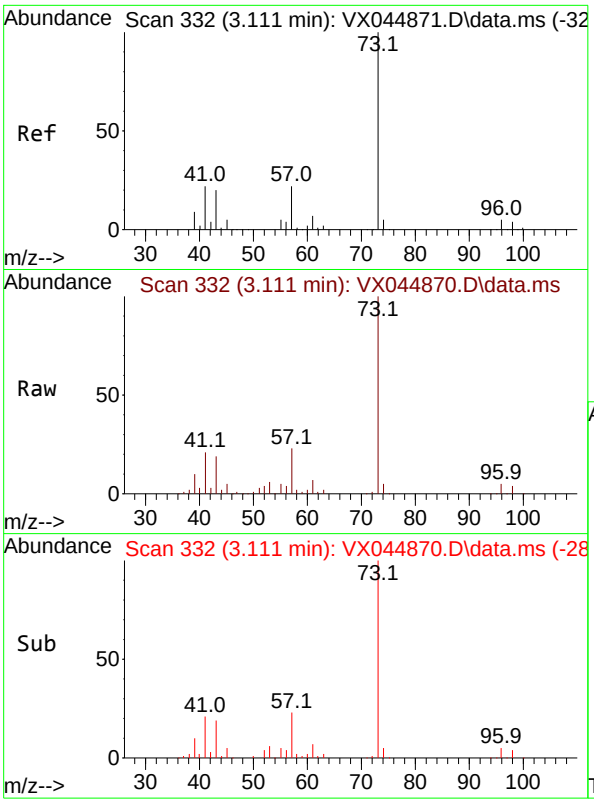


#18
Methyl Acetate
Concen: 19.943 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 47970

Ion	Ratio	Lower	Upper
43	100		
74	22.9	18.9	28.3



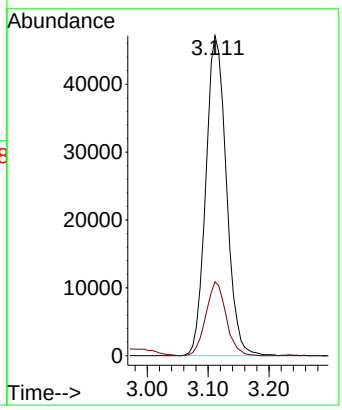


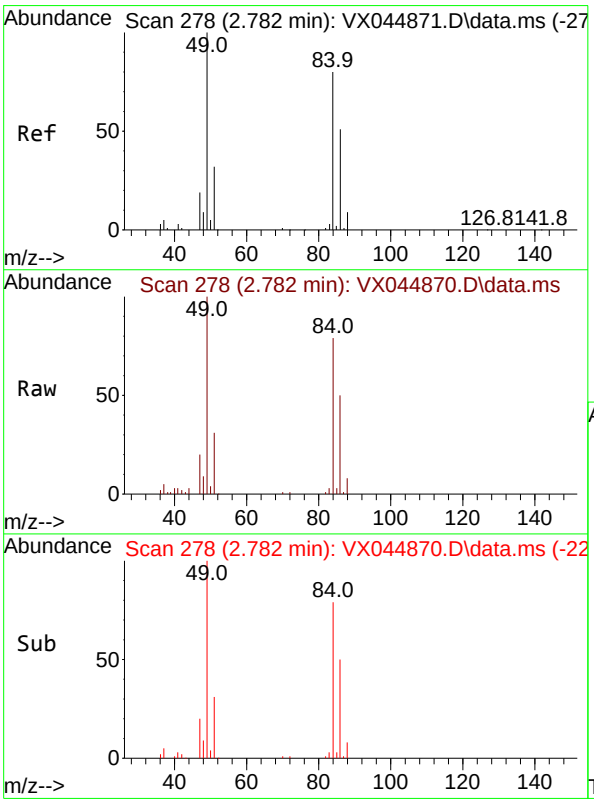
#19
Methyl tert-butyl Ether
Concen: 20.779 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 110377

Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.9	26.9

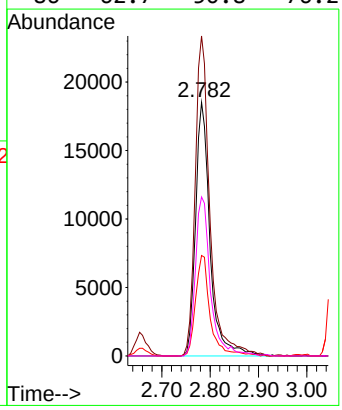


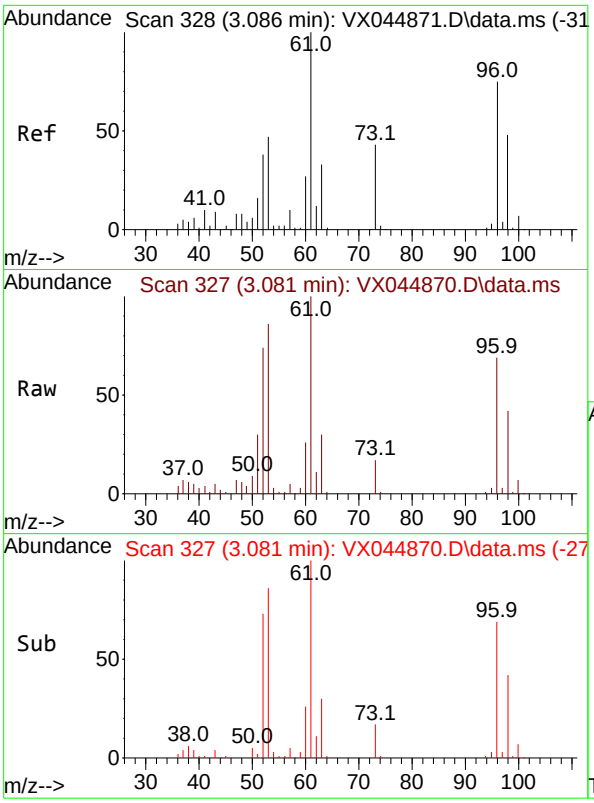


#20
Methylene Chloride
Concen: 20.562 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 84 Resp: 38390

Ion	Ratio	Lower	Upper
84	100		
49	126.2	100.1	150.1
51	39.6	31.7	47.5
86	62.7	50.8	76.2



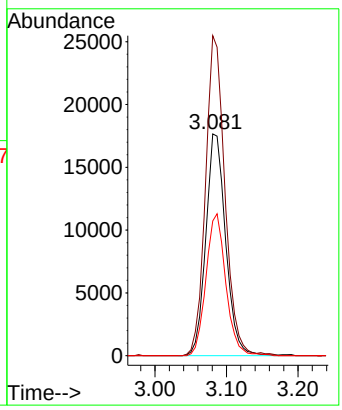


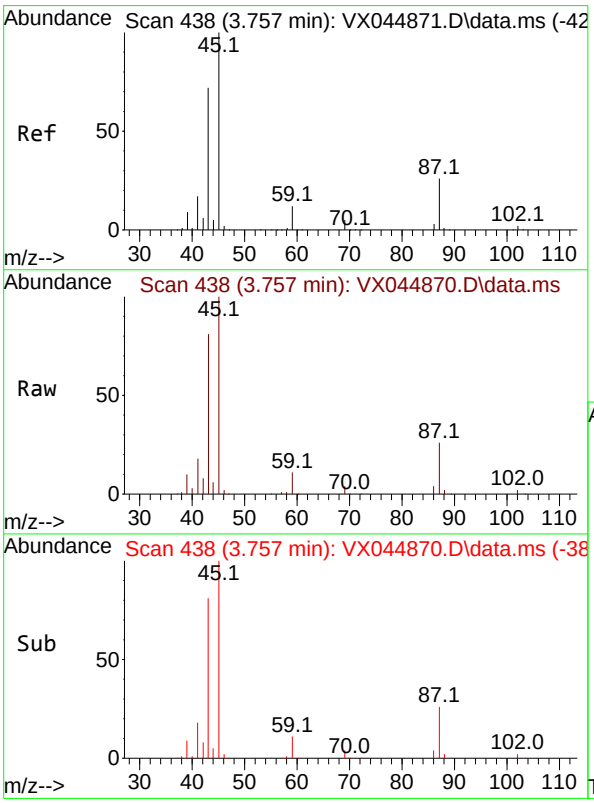
#21
trans-1,2-Dichloroethene
Concen: 20.730 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 34064

Ion	Ratio	Lower	Upper
96	100		
61	144.3	106.0	159.0
98	60.8	50.6	76.0

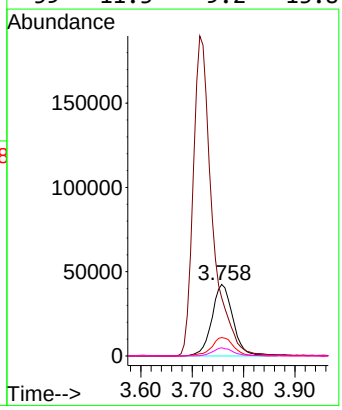


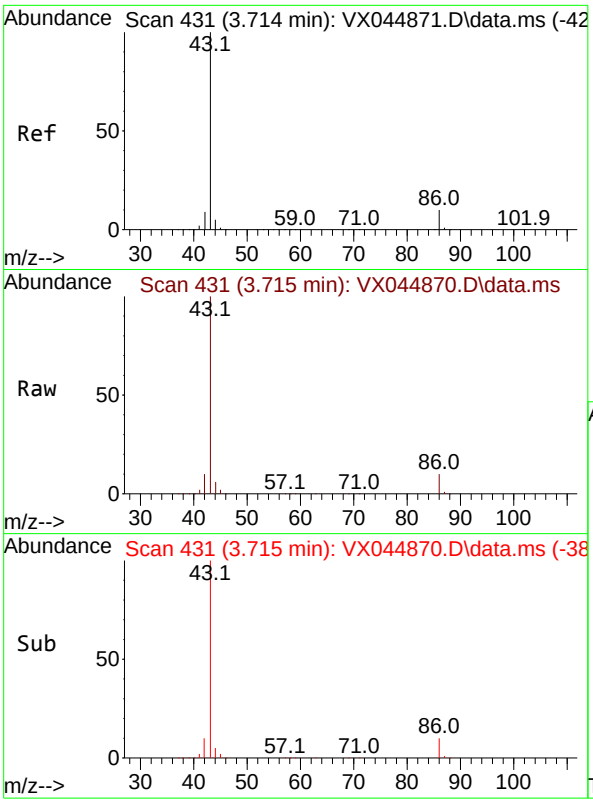


#22
Diisopropyl ether
Concen: 21.074 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 45 Resp: 120300

Ion	Ratio	Lower	Upper
45	100		
43	80.8	58.0	87.0
87	25.8	20.7	31.1
59	11.3	9.2	13.8



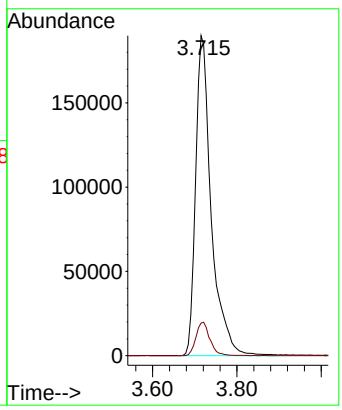


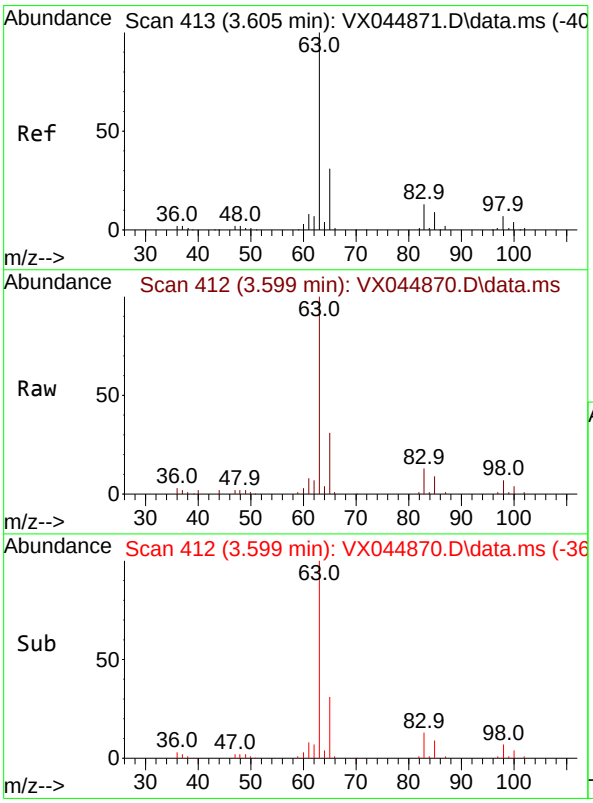
#23
Vinyl Acetate
Concen: 105.341 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 490239

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.3	12.5

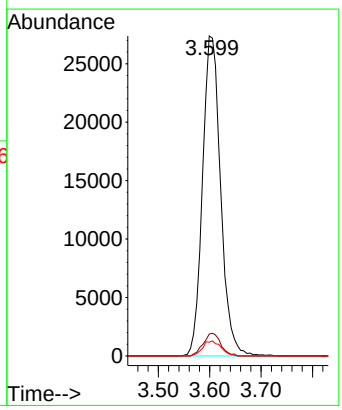


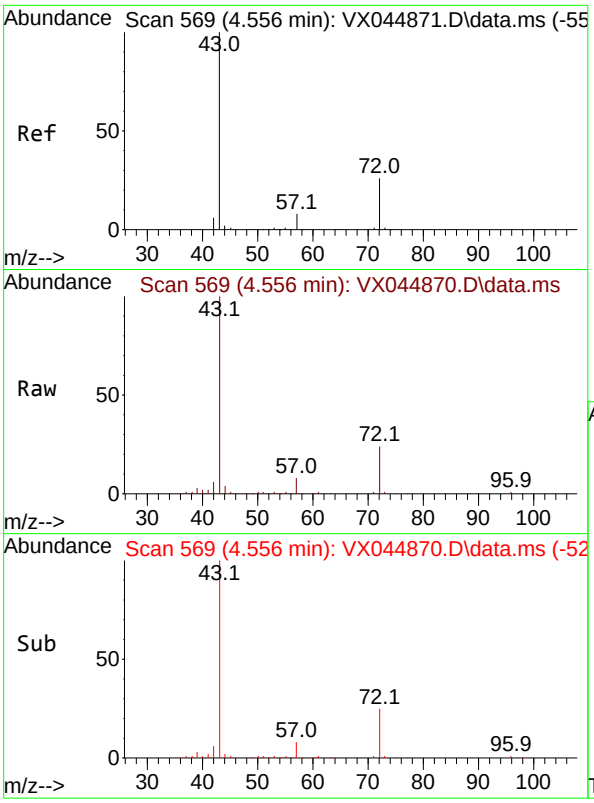


#24
1,1-Dichloroethane
Concen: 20.958 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 66942

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.9
100	4.3	2.1	6.5



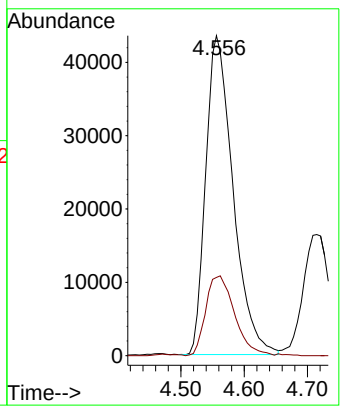


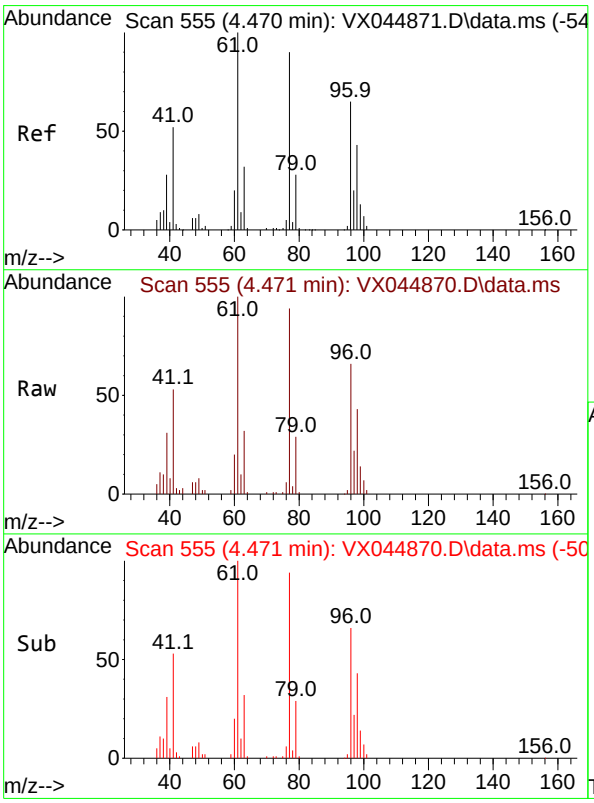
#25
2-Butanone
Concen: 105.417 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 130481

Ion	Ratio	Lower	Upper
43	100		
72	24.2	21.2	31.8

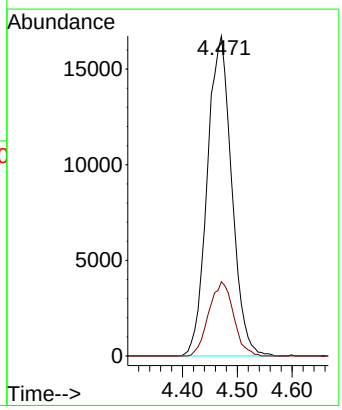


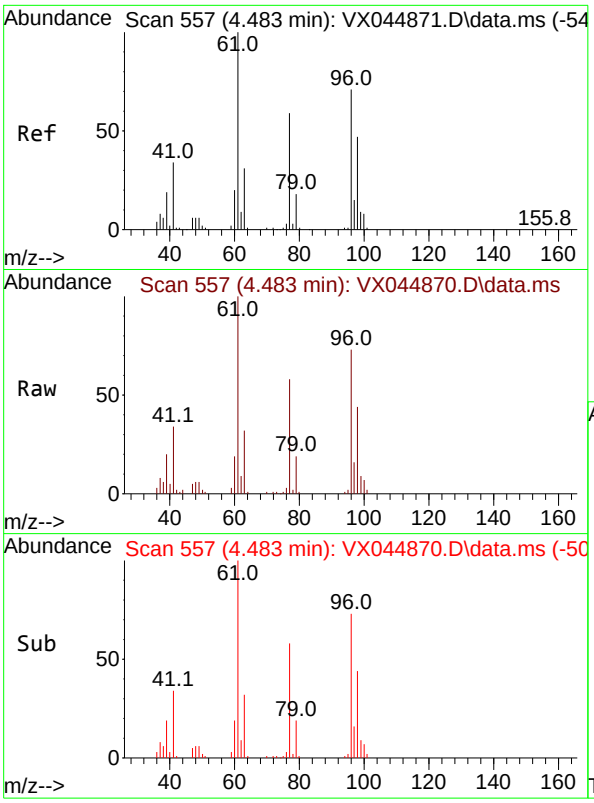


#26
2,2-Dichloropropane
Concen: 20.451 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 77 Resp: 51803

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.8	35.3



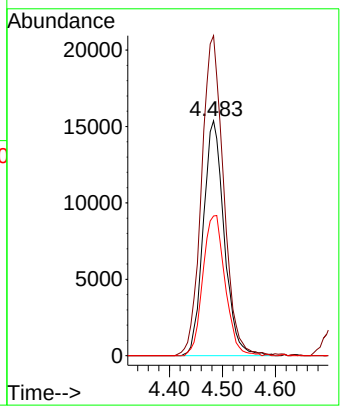


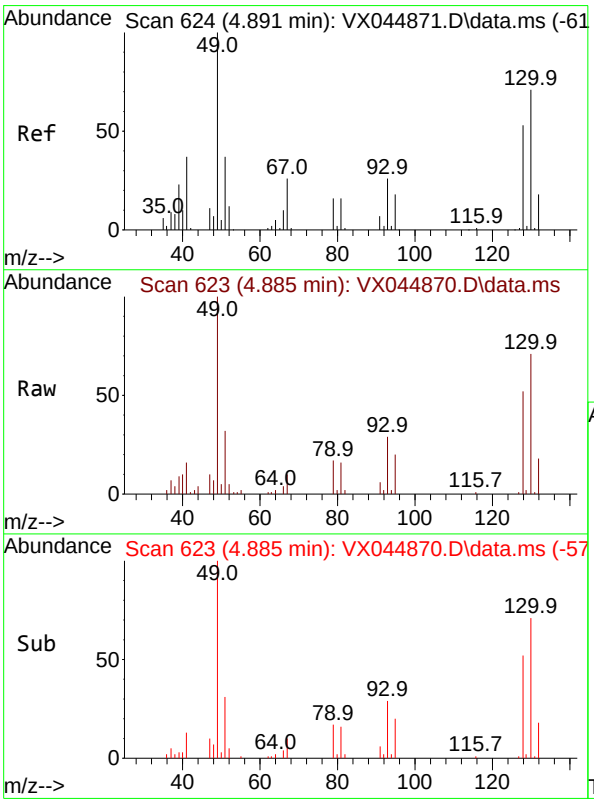
#27
cis-1,2-Dichloroethene
Concen: 21.328 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 42096

Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	294.0
98	63.4	0.0	131.2

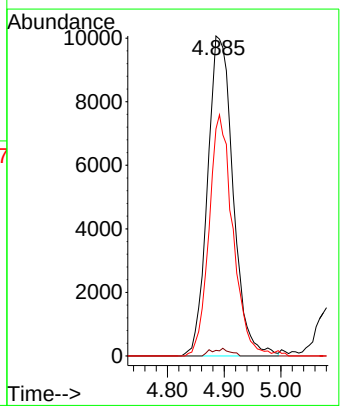


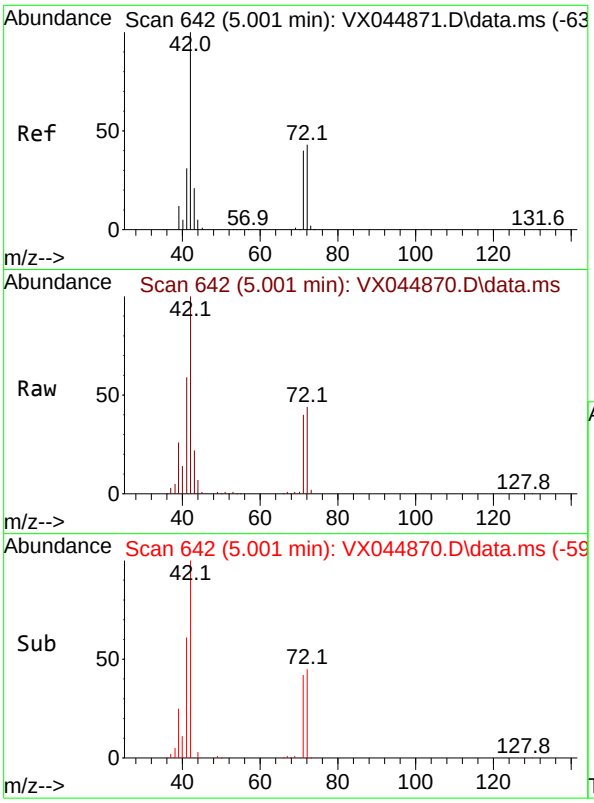


#28
Bromochloromethane
Concen: 20.504 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 49 Resp: 31474

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	70.3	56.7	85.1



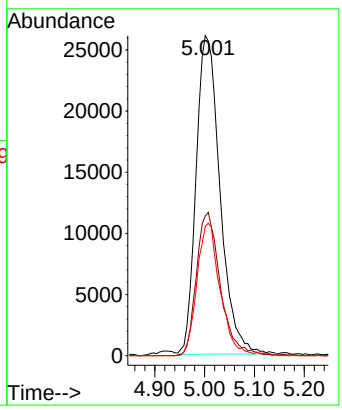


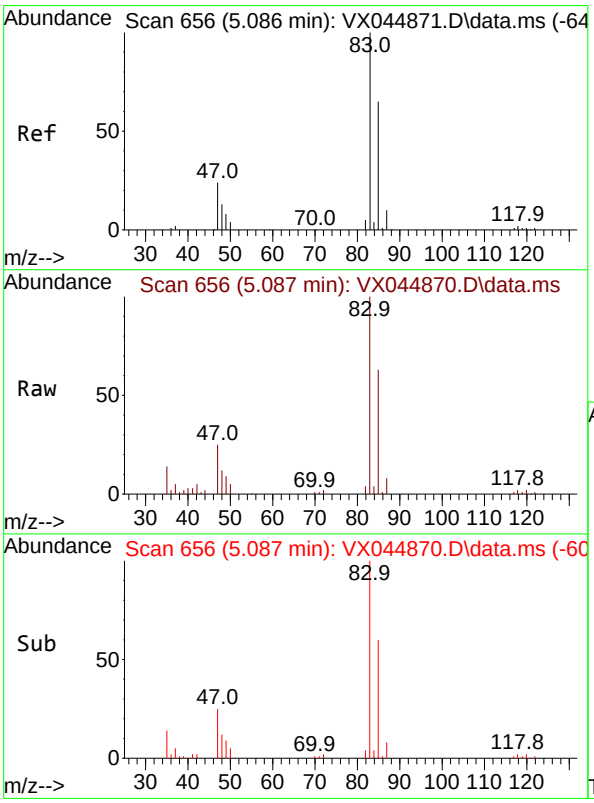
#29
Tetrahydrofuran
Concen: 105.700 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 86875

Ion	Ratio	Lower	Upper
42	100		
72	44.9	35.0	52.4
71	40.4	32.6	48.8

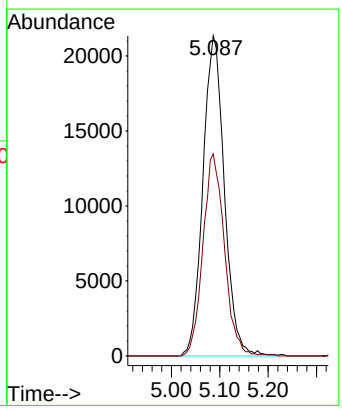


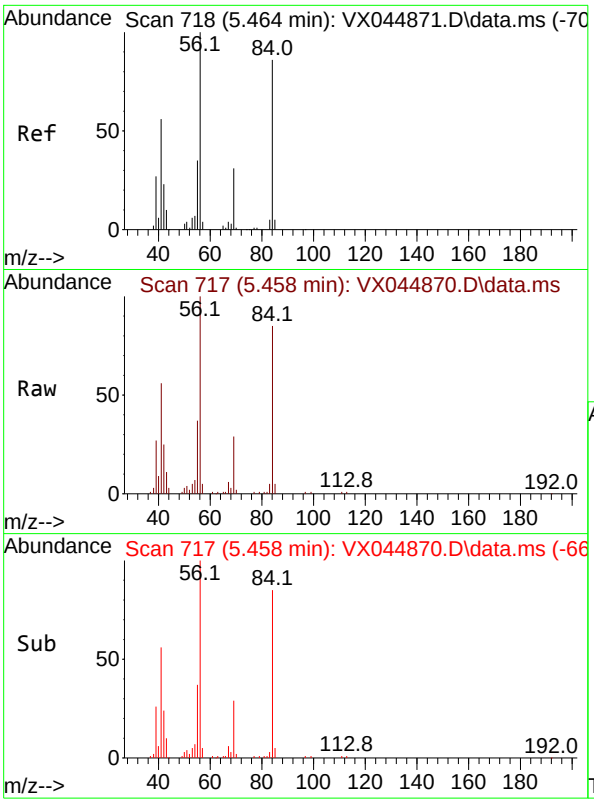


#30
Chloroform
Concen: 21.217 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 65721

Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.1	78.1



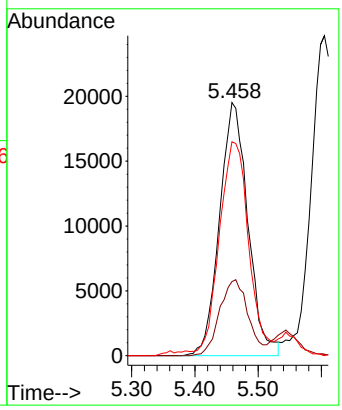


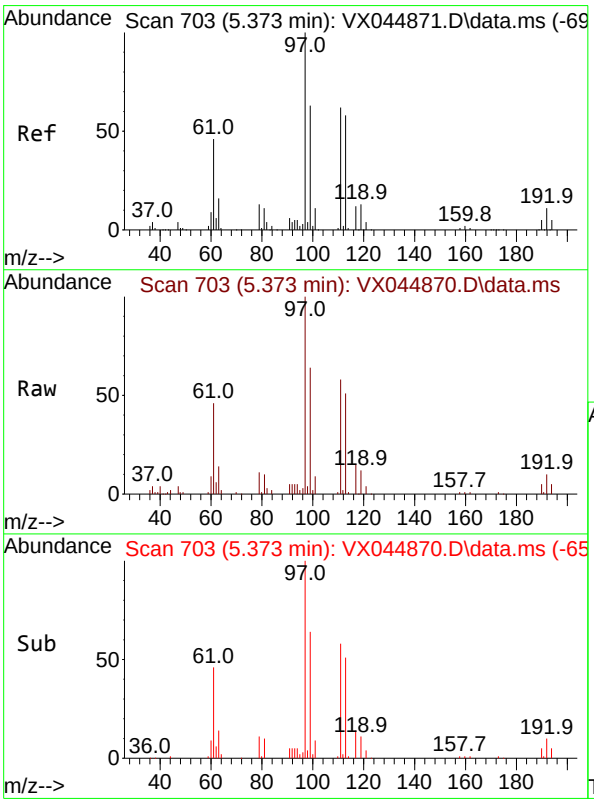
#31
Cyclohexane
Concen: 20.653 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 60814

Ion	Ratio	Lower	Upper
56	100		
69	29.2	24.4	36.6
84	83.1	69.0	103.6

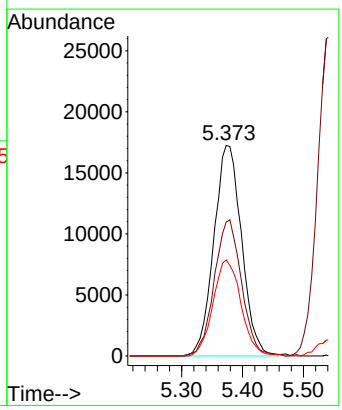


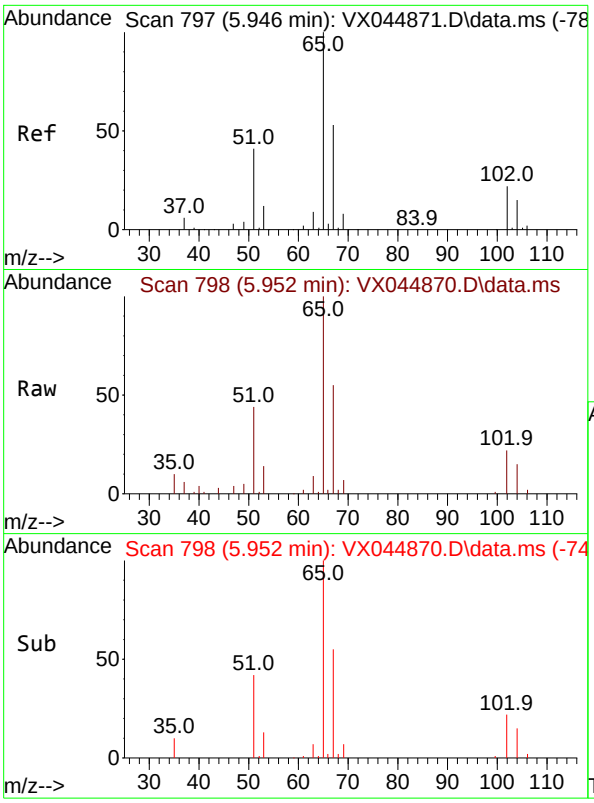


#32
1,1,1-Trichloroethane
Concen: 20.724 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 97 Resp: 54450

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.0	76.6
61	45.9	36.6	55.0



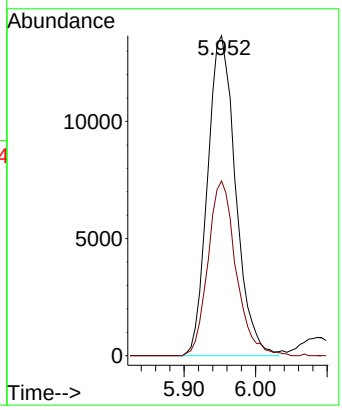


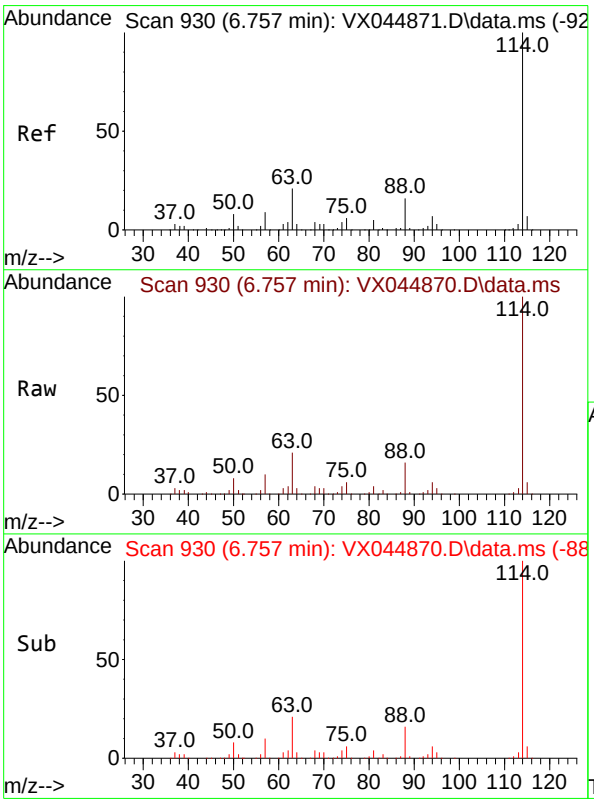
#33
1,2-Dichloroethane-d4
Concen: 19.616 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 37195

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	108.2

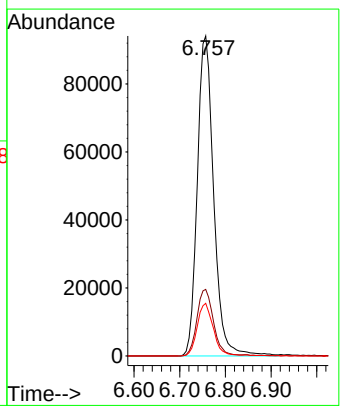


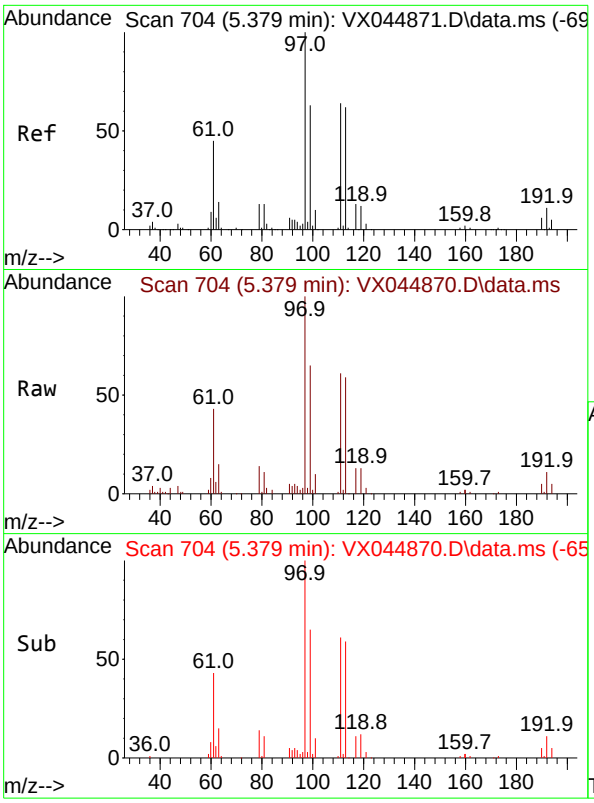


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:114 Resp: 234445

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.4
88	16.4	0.0	31.4



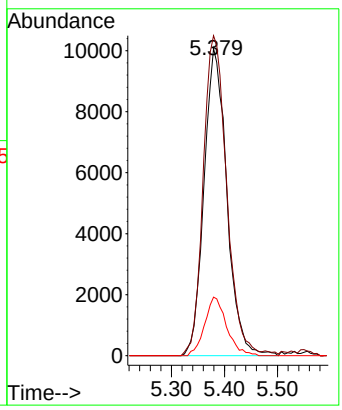


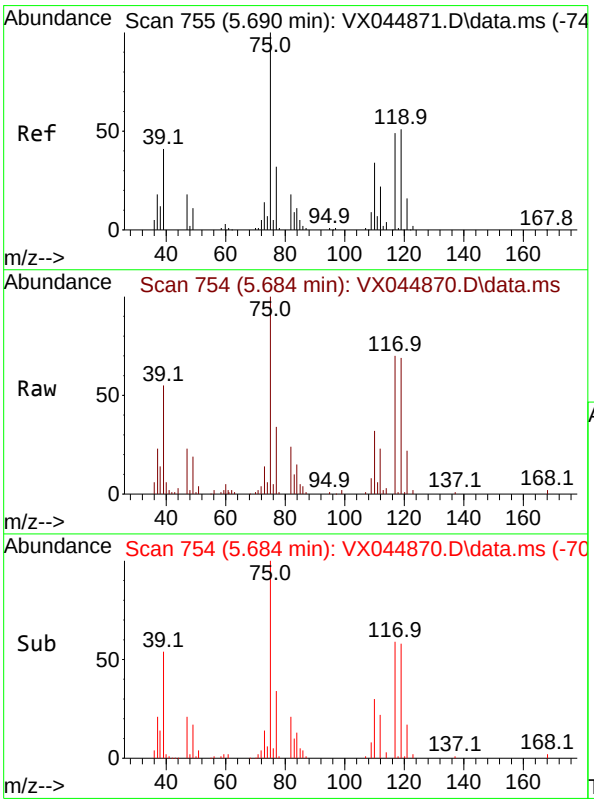
#35
Dibromofluoromethane
Concen: 19.793 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 30170

Ion	Ratio	Lower	Upper
113	100		
111	106.3	83.5	125.3
192	18.3	14.4	21.6

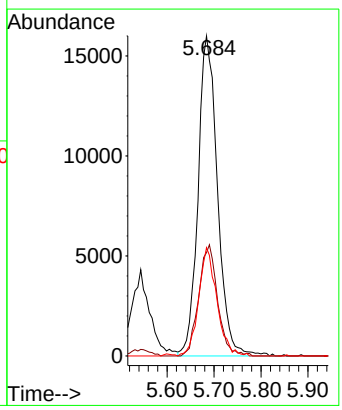


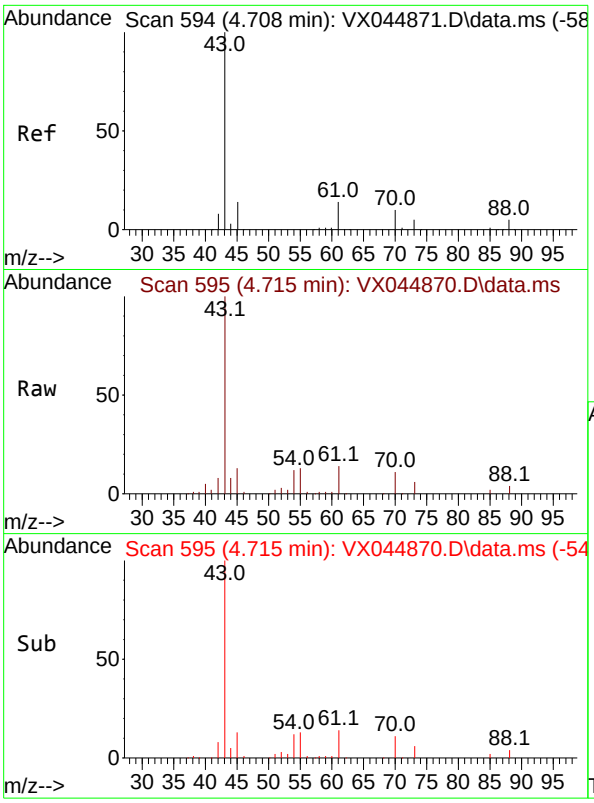


#36
1,1-Dichloropropene
Concen: 20.913 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 45991

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.2	51.6
77	31.7	24.6	37.0



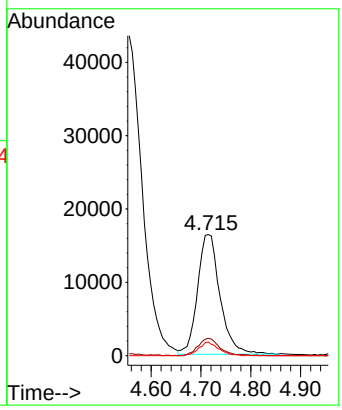


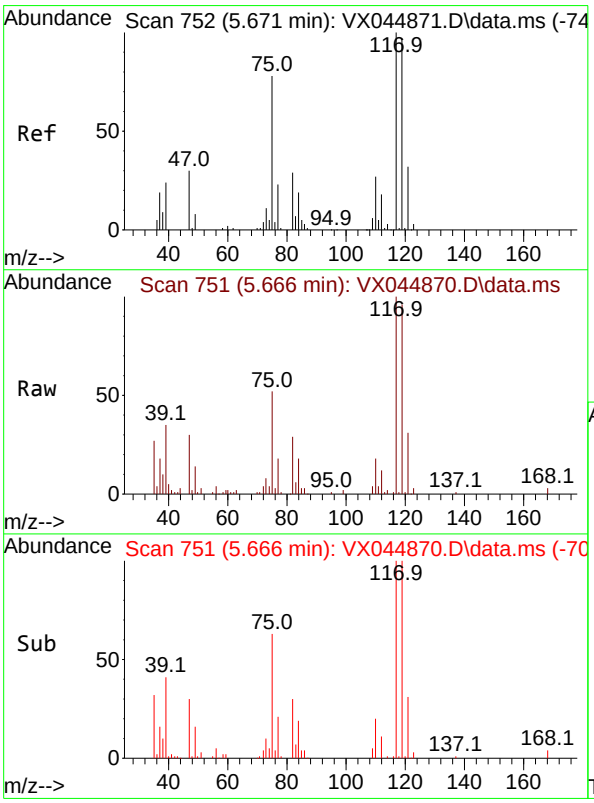
#37
Ethyl Acetate
Concen: 20.949 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 51242

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.4
70	9.9	8.2	12.2

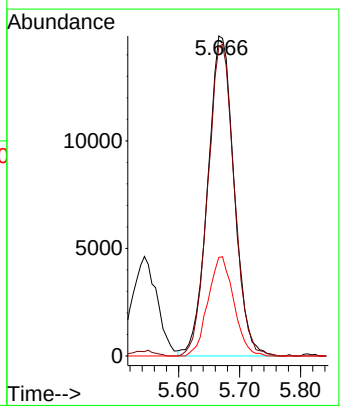


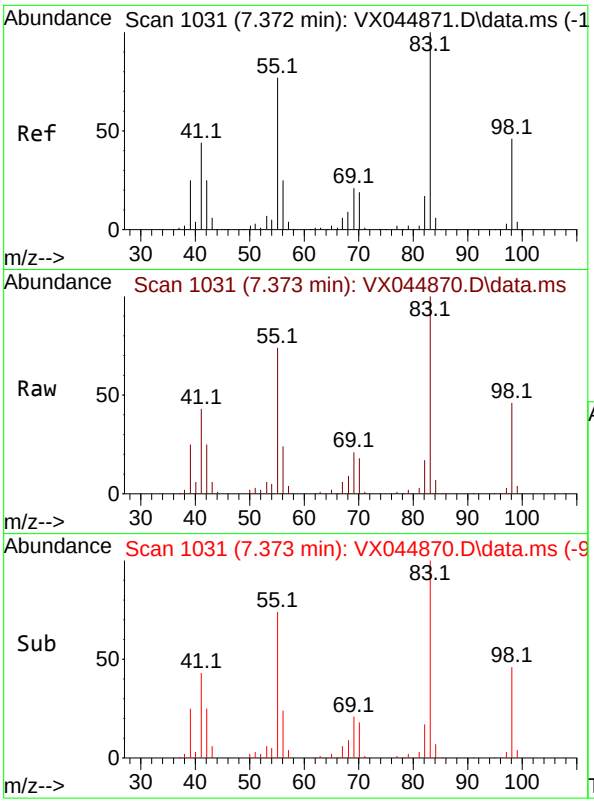


#38
Carbon Tetrachloride
Concen: 20.790 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 44802

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.5	116.3
121	30.8	25.6	38.4



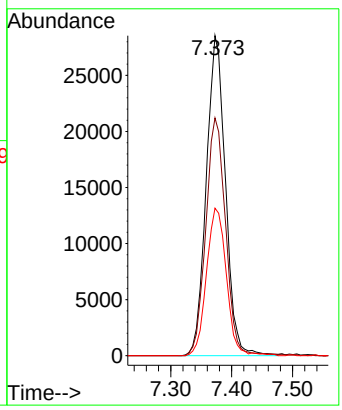


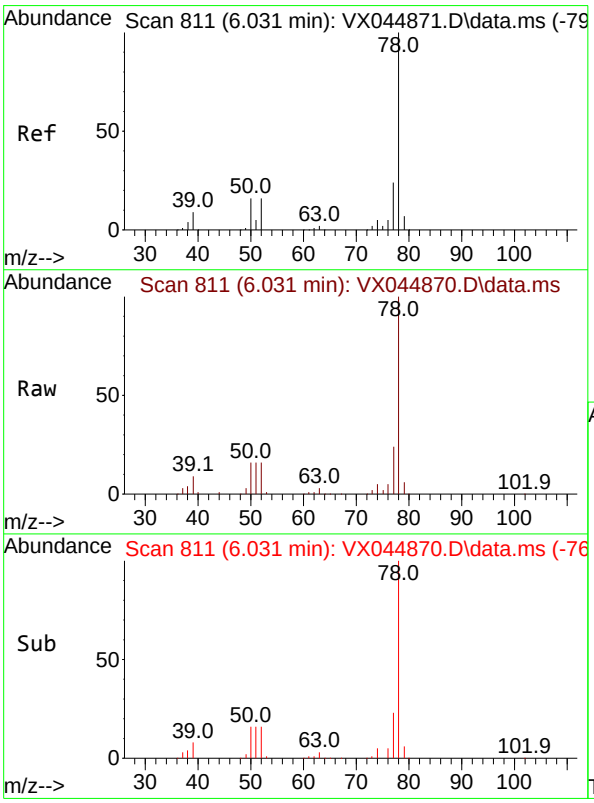
#39
Methylcyclohexane
Concen: 21.985 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 62505

Ion	Ratio	Lower	Upper
83	100		
55	74.3	61.3	91.9
98	46.1	37.0	55.6

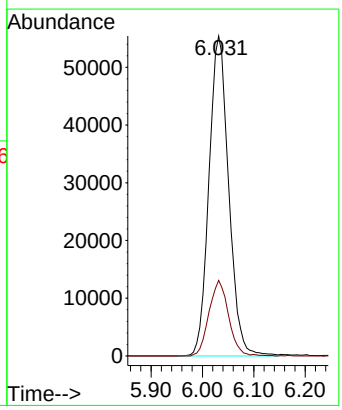


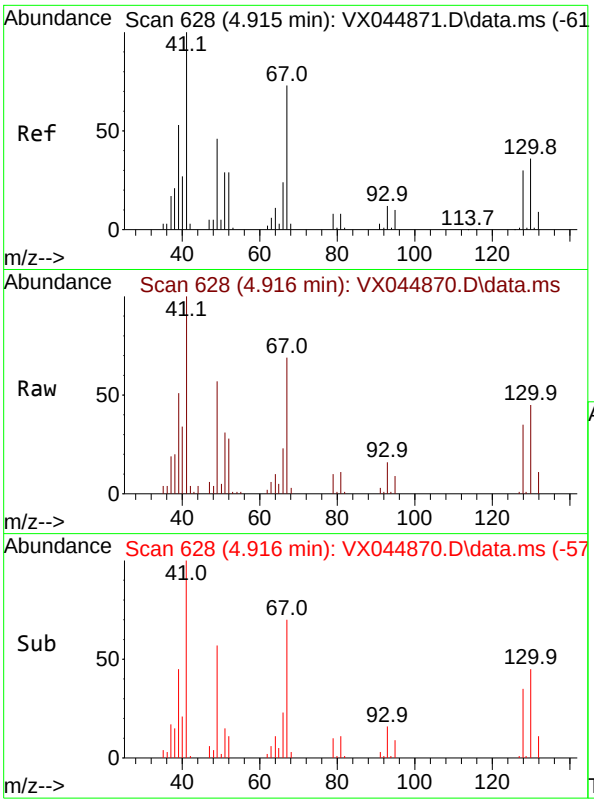


#40
Benzene
Concen: 21.540 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 78 Resp: 147912

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6



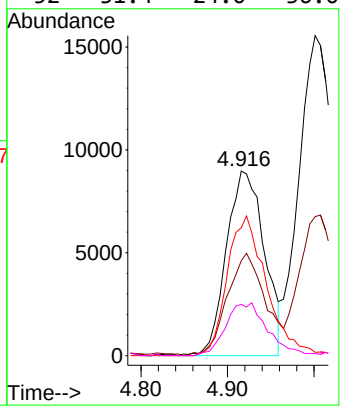


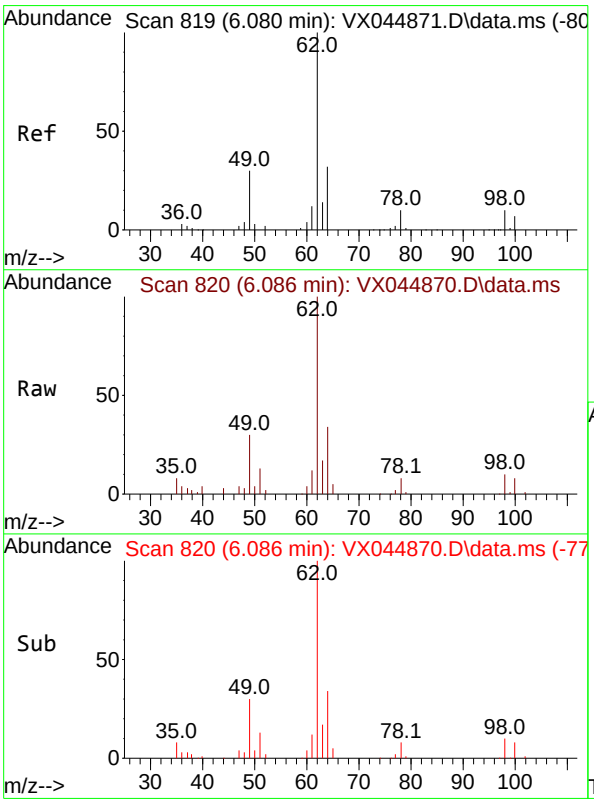
#41
Methacrylonitrile
Concen: 20.887 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 27347

Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.1	64.7
67	78.6	57.0	85.6
52	31.4	24.0	36.0

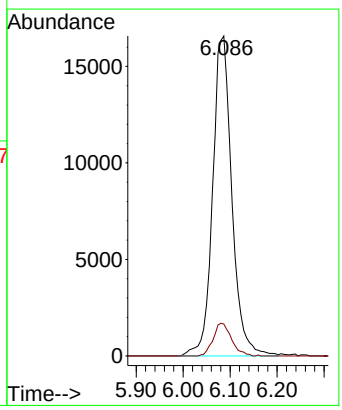


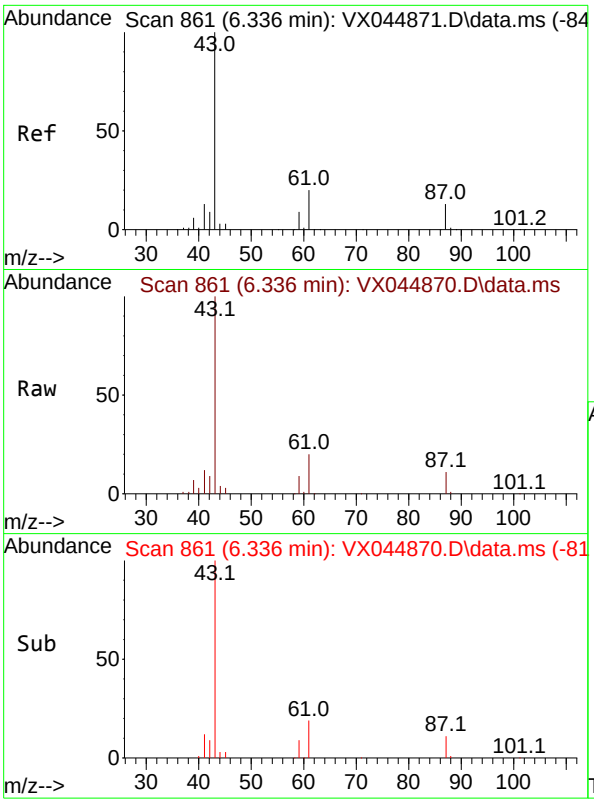


#42
1,2-Dichloroethane
Concen: 21.519 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 47095

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4



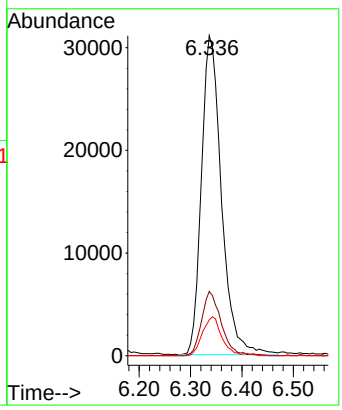


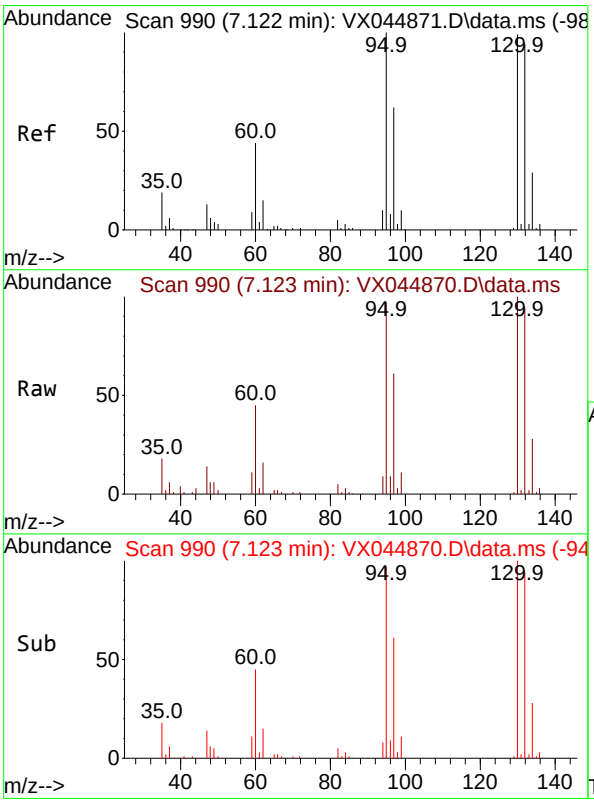
#43
Isopropyl Acetate
Concen: 21.343 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 84306

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.8	23.8
87	11.6	10.0	15.0

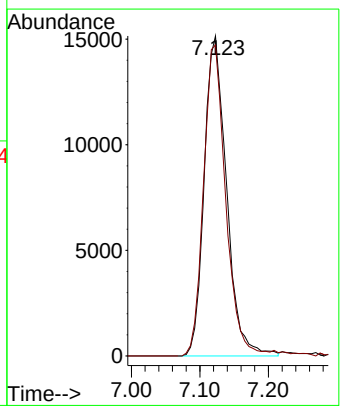


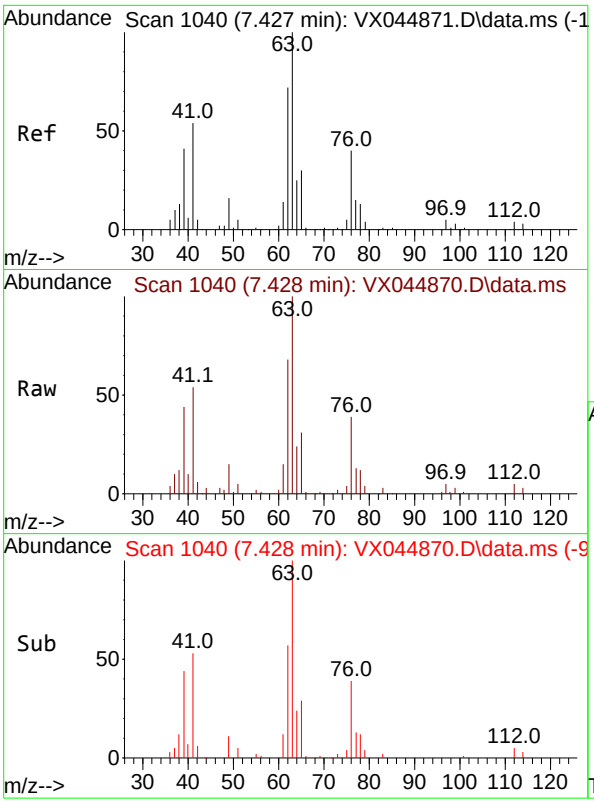


#44
Trichloroethene
Concen: 21.910 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:130 Resp: 34390

Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	202.4



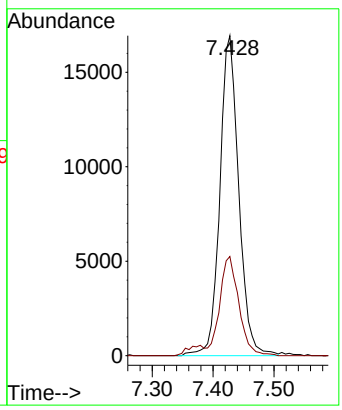


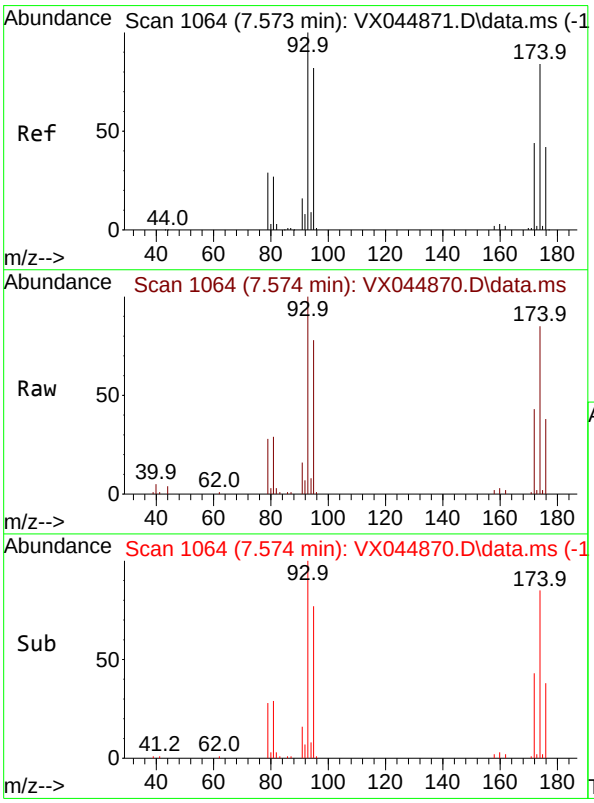
#45
1,2-Dichloropropane
Concen: 21.371 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 36510

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.2	36.4

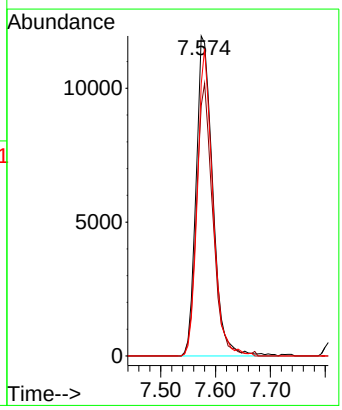


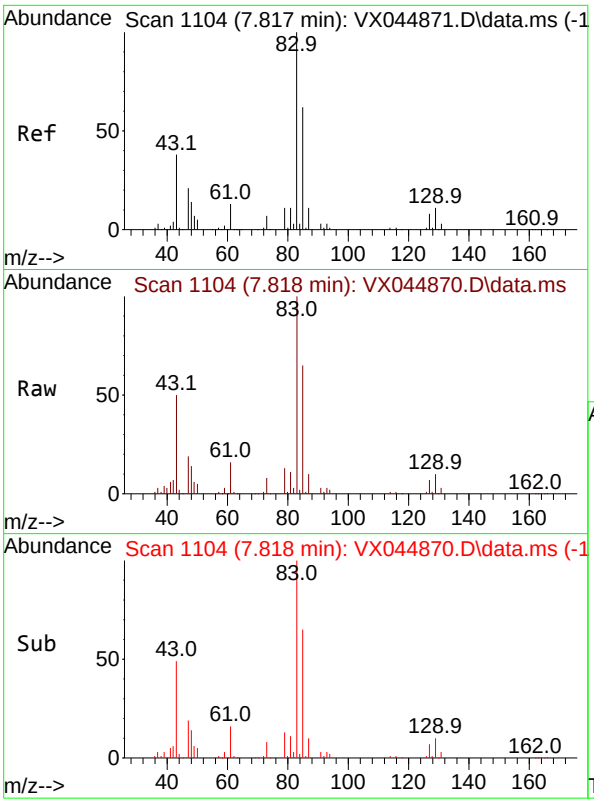


#46
Dibromomethane
Concen: 21.354 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 93 Resp: 25300

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.2	99.4
174	88.6	69.9	104.9



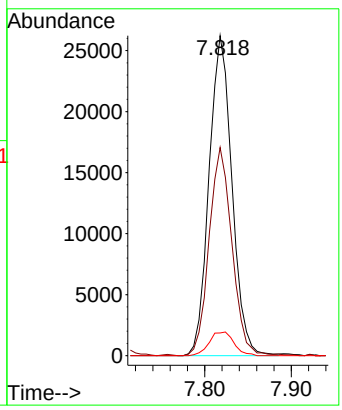


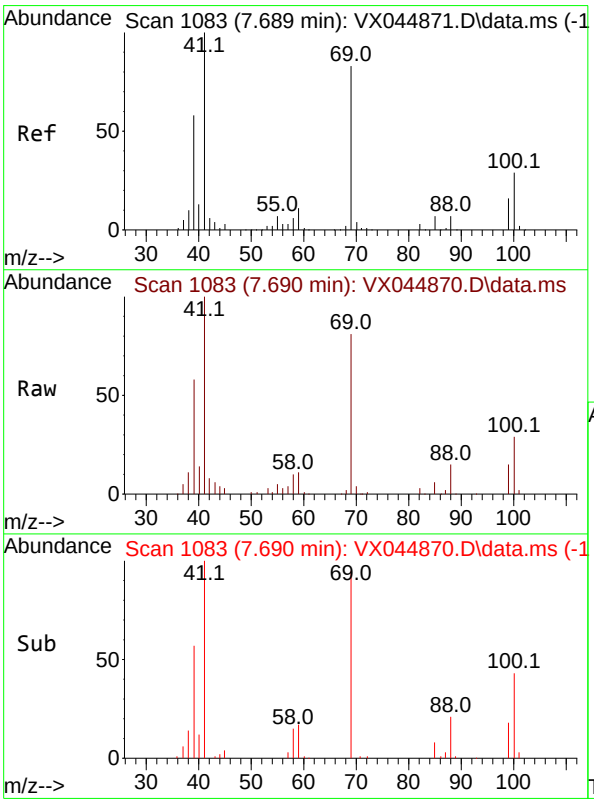
#47
Bromodichloromethane
Concen: 21.012 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 48202

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.0	75.0
127	7.1	6.4	9.6

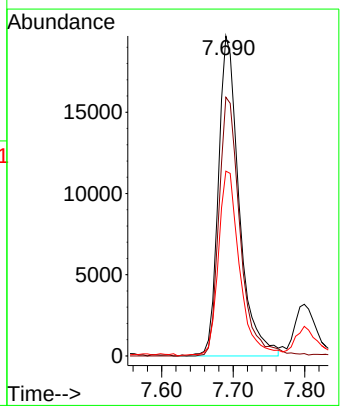


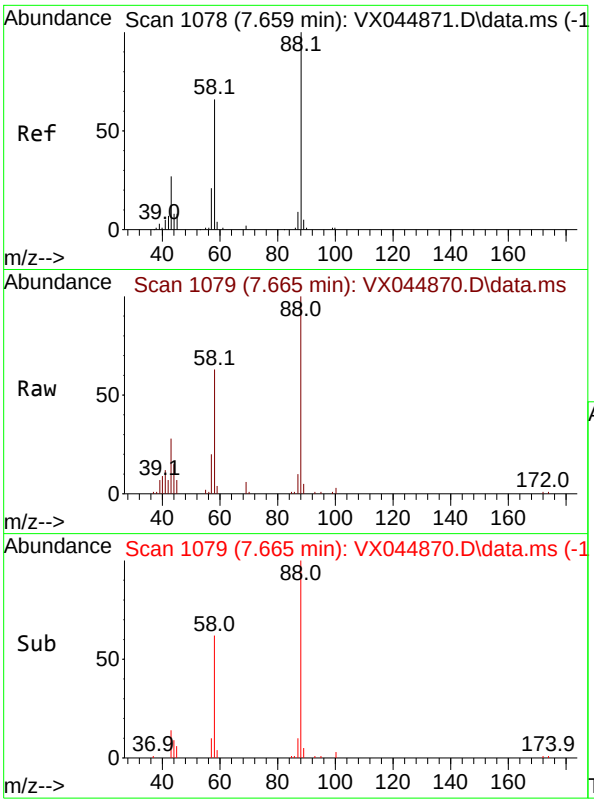


#48
Methyl methacrylate
Concen: 21.341 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 39747

Ion	Ratio	Lower	Upper
41	100		
69	82.5	65.8	98.8
39	58.2	46.4	69.6



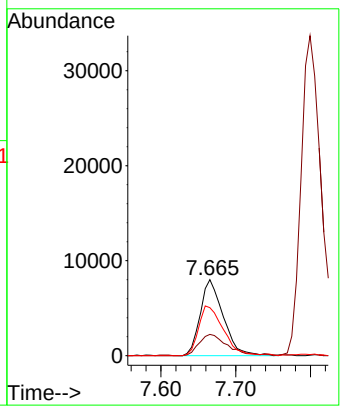


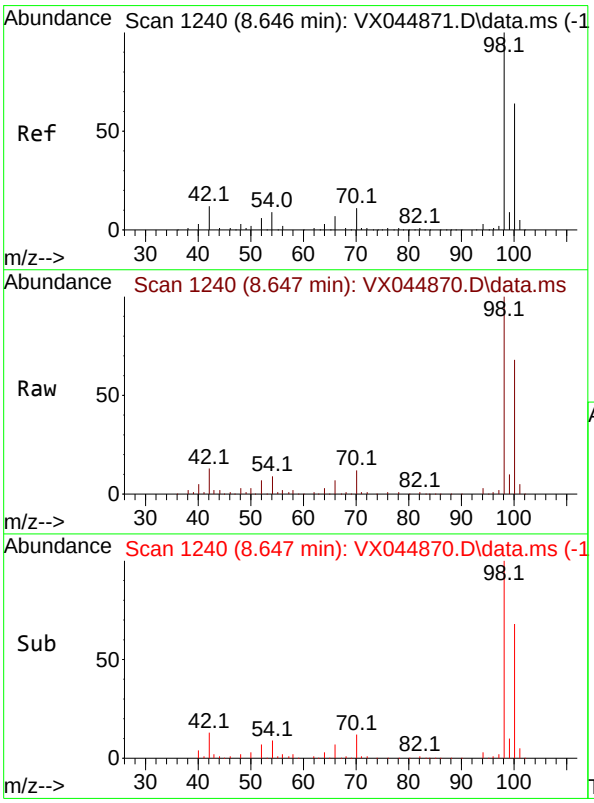
#49
1,4-Dioxane
Concen: 429.262 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 17153

Ion	Ratio	Lower	Upper
88	100		
43	34.3	26.6	39.8
58	69.3	55.9	83.9

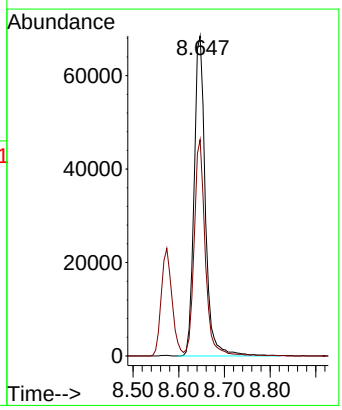


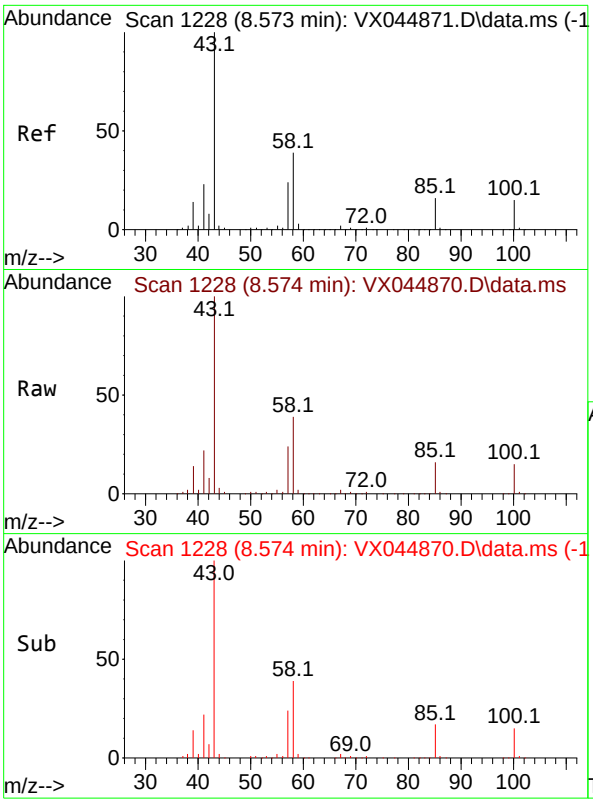


#50
Toluene-d8
Concen: 20.321 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 98 Resp: 117127

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.7	79.1



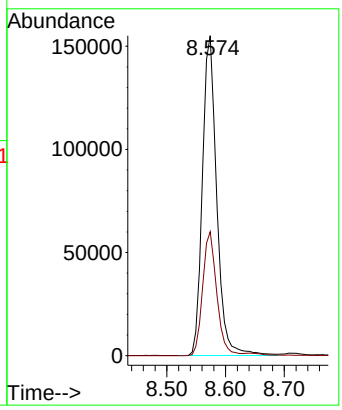


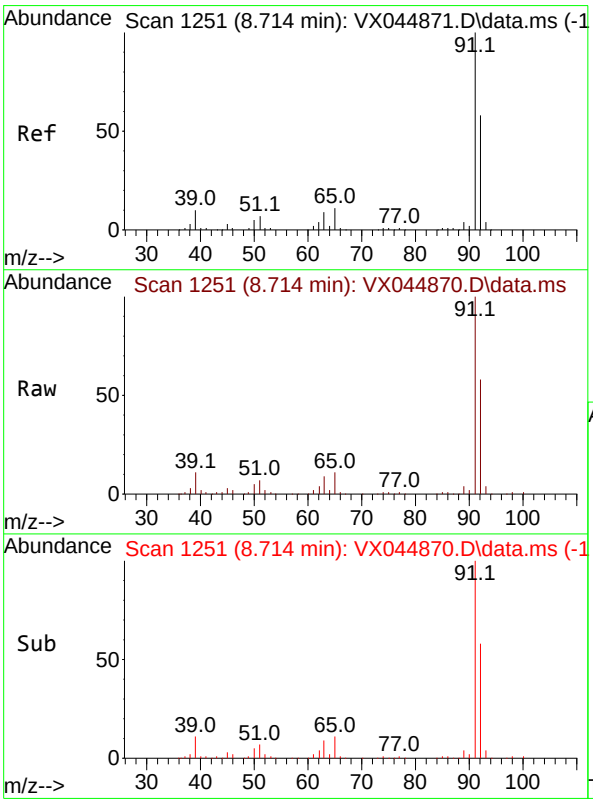
#51
4-Methyl-2-Pentanone
Concen: 109.684 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 263394

Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.8	46.2

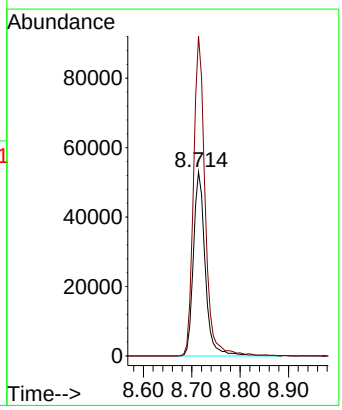


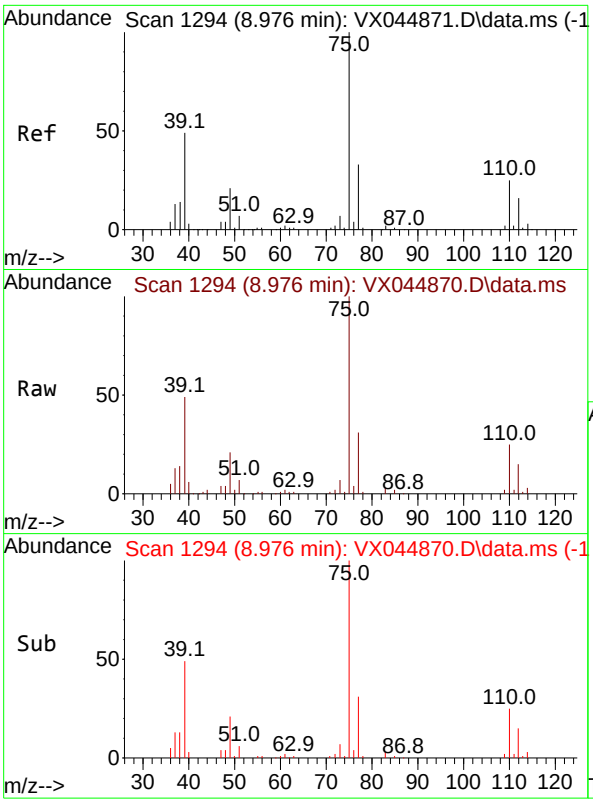


#52
Toluene
Concen: 21.940 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 92 Resp: 89726

Ion	Ratio	Lower	Upper
92	100		
91	171.0	137.4	206.2



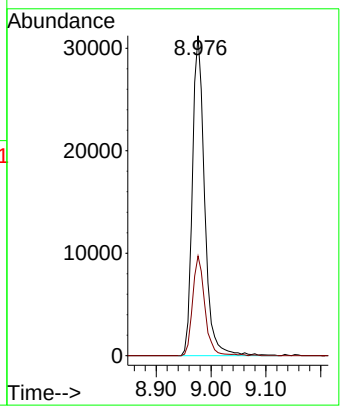


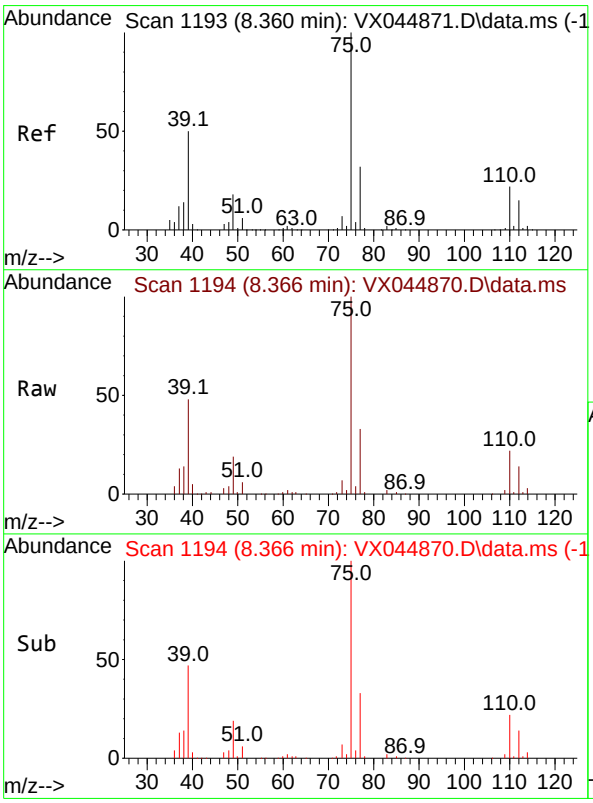
#53
t-1,3-Dichloropropene
Concen: 20.940 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 48613

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

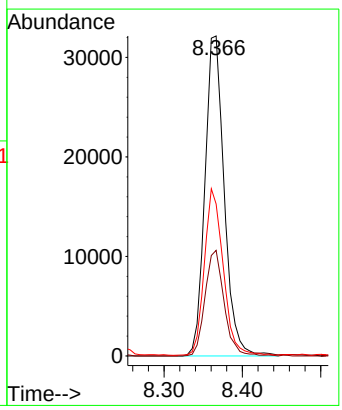


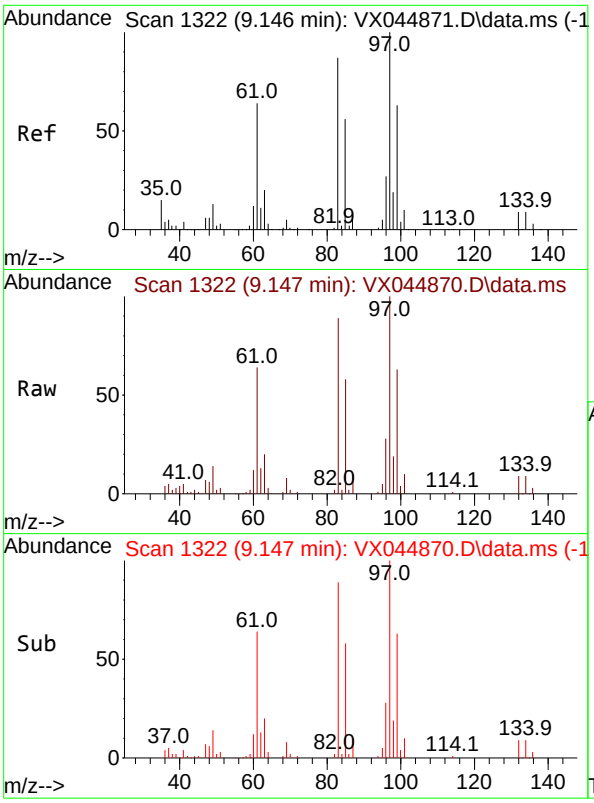


#54
cis-1,3-Dichloropropene
Concen: 21.259 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 55026

Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.3	37.9
39	47.3	40.0	60.0



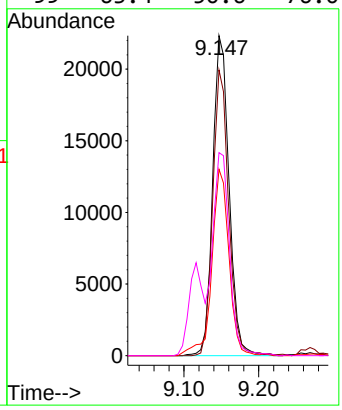


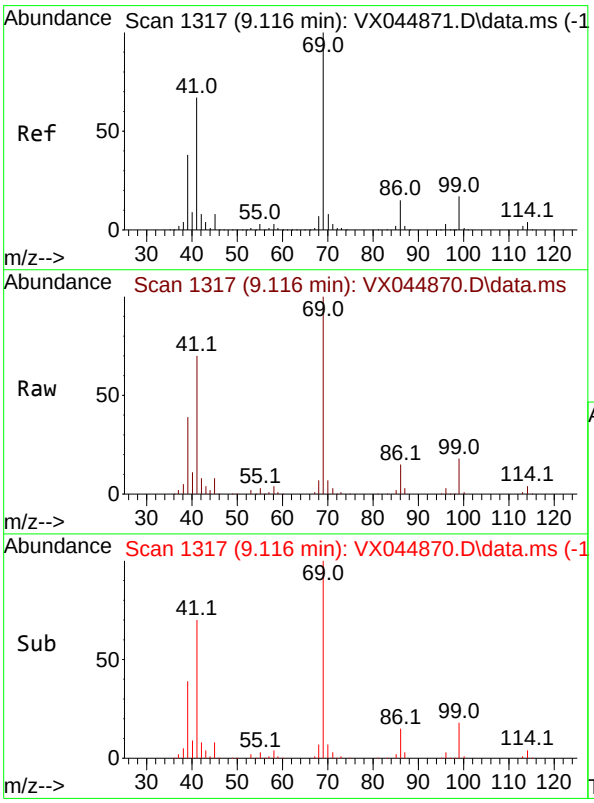
#55
1,1,2-Trichloroethane
Concen: 21.582 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 33930

Ion	Ratio	Lower	Upper
97	100		
83	89.3	69.8	104.6
85	58.3	44.8	67.2
99	63.4	50.6	76.0

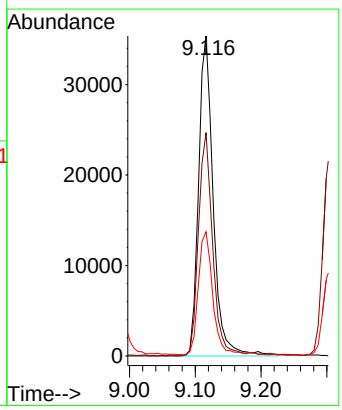


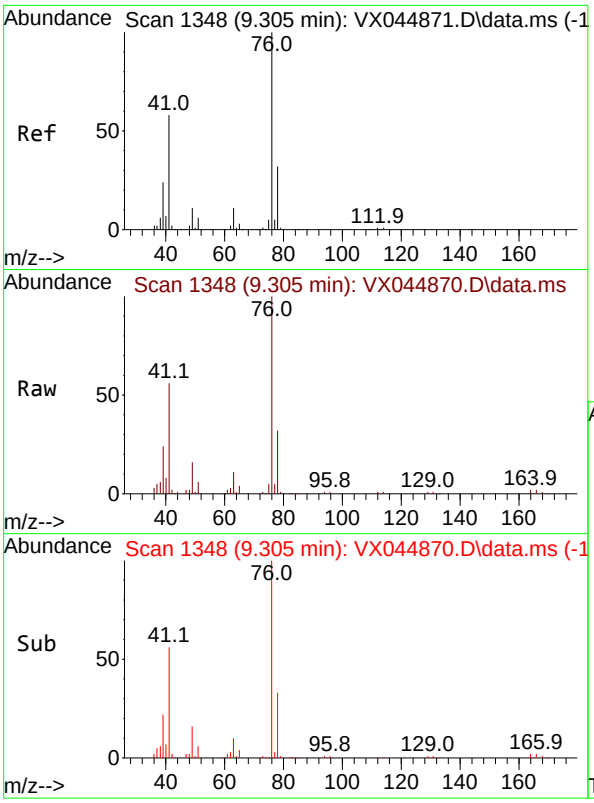


#56
Ethyl methacrylate
Concen: 21.533 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 69 Resp: 54674

Ion	Ratio	Lower	Upper
69	100		
41	68.4	55.2	82.8
39	37.4	30.8	46.2



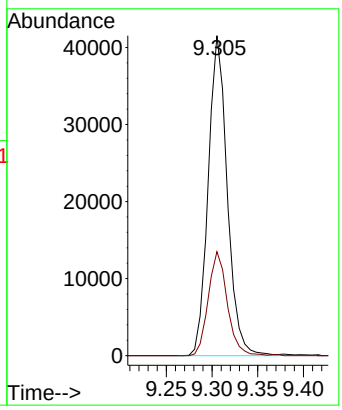


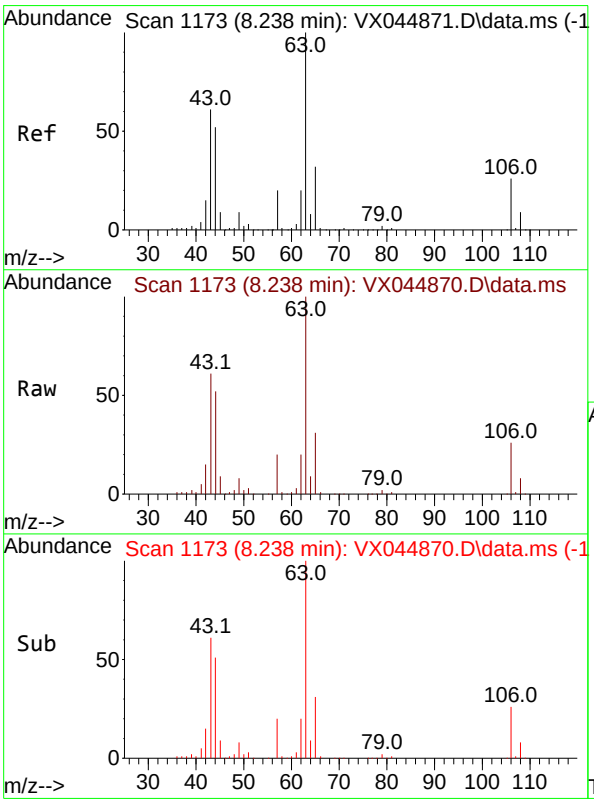
#57
1,3-Dichloropropane
Concen: 21.841 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 60079

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8

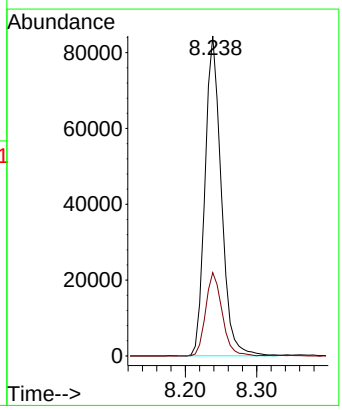


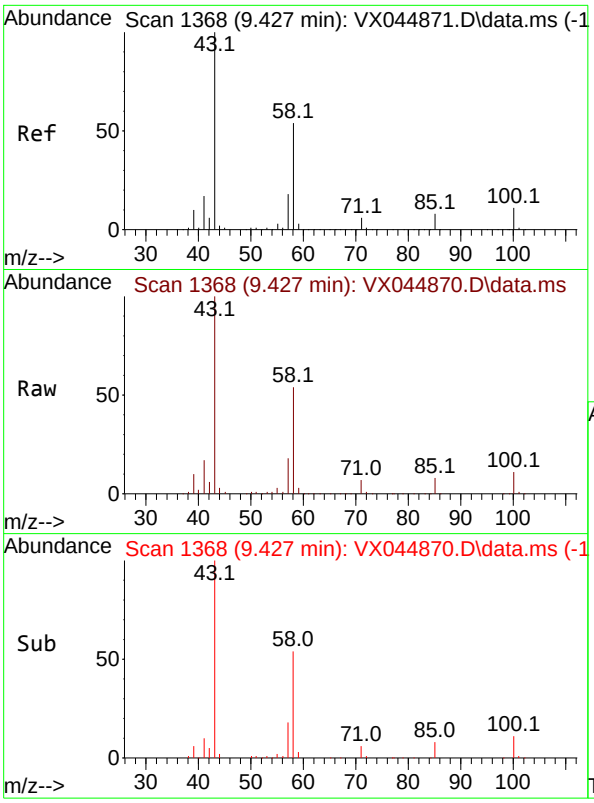


#58
2-Chloroethyl Vinyl ether
Concen: 106.736 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 133072

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9



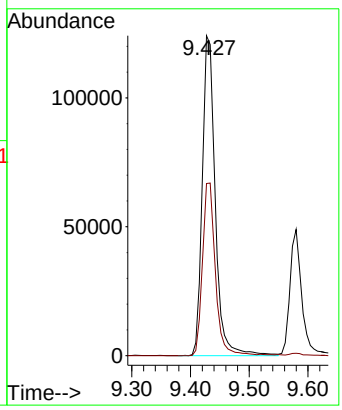


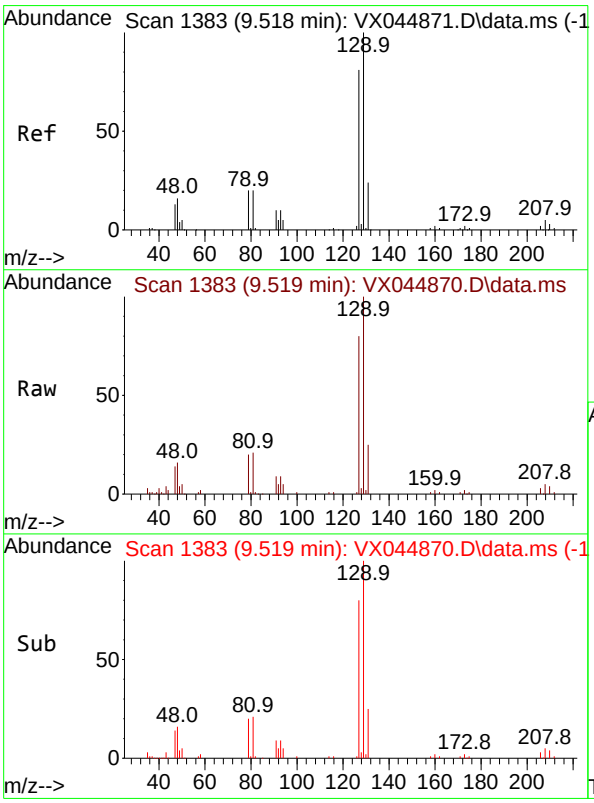
#59
2-Hexanone
Concen: 110.072 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 190449

Ion	Ratio	Lower	Upper
43	100		
58	53.5	27.5	82.4

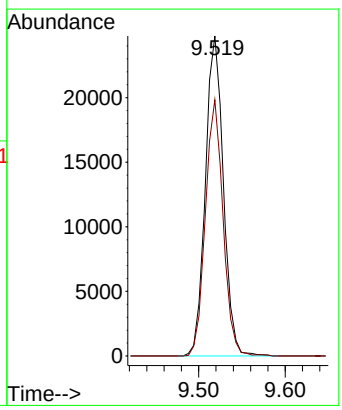


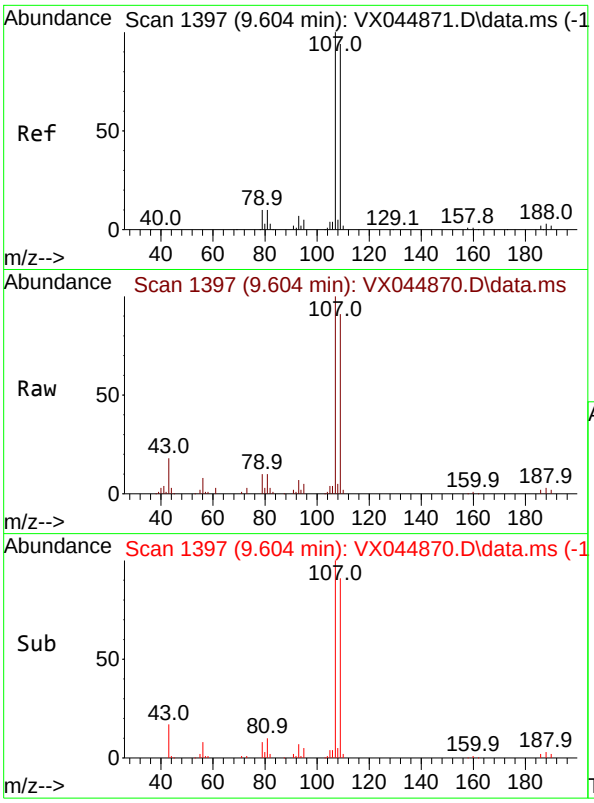


#60
Dibromochloromethane
Concen: 21.237 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:129 Resp: 35706

Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.1	117.3



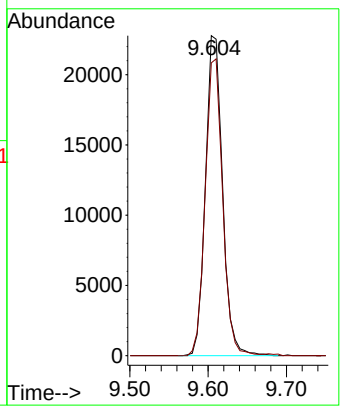


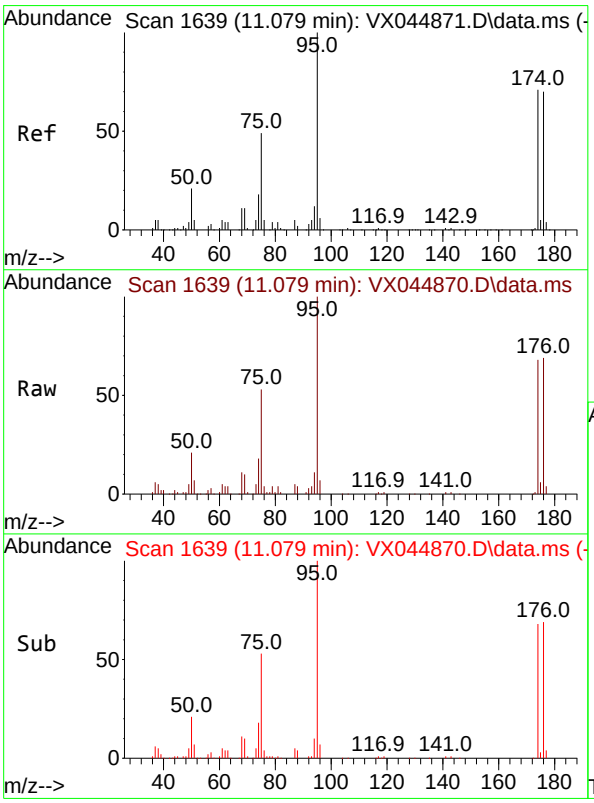
#61
1,2-Dibromoethane
Concen: 21.628 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 34463

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9

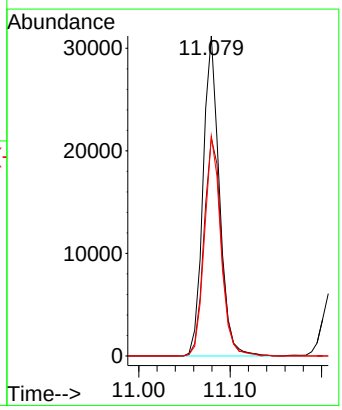


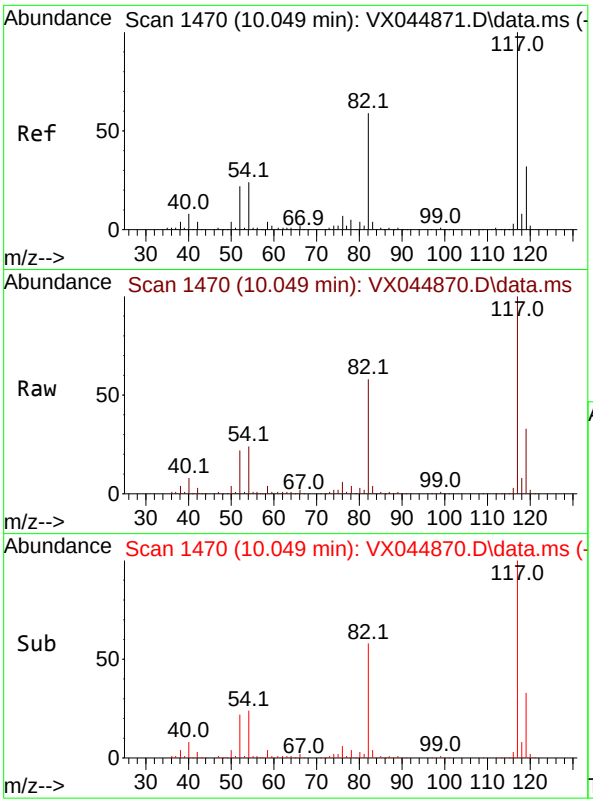


#62
4-Bromofluorobenzene
Concen: 19.800 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 95 Resp: 38475

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	142.6
176	69.0	0.0	141.6



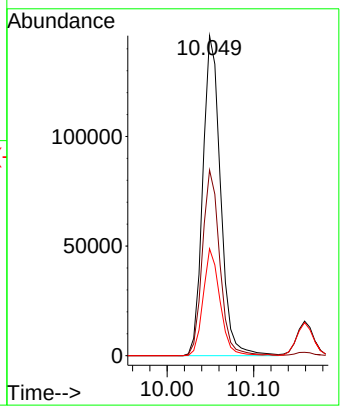


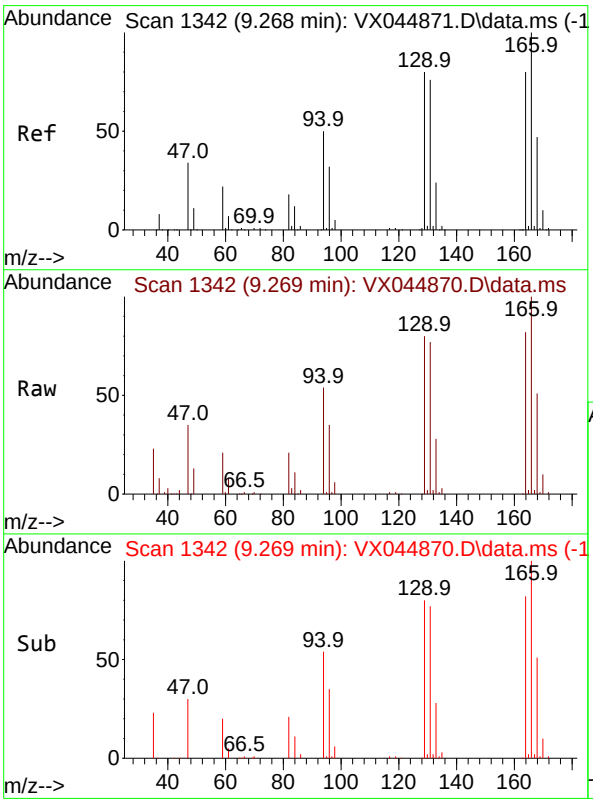
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 207667

Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.5	71.3
119	33.4	25.4	38.0

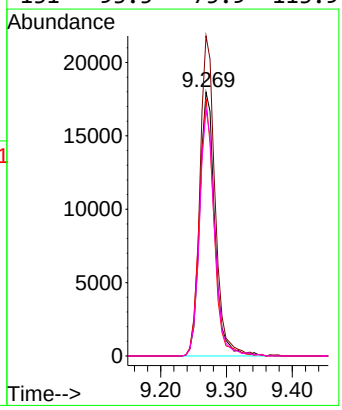


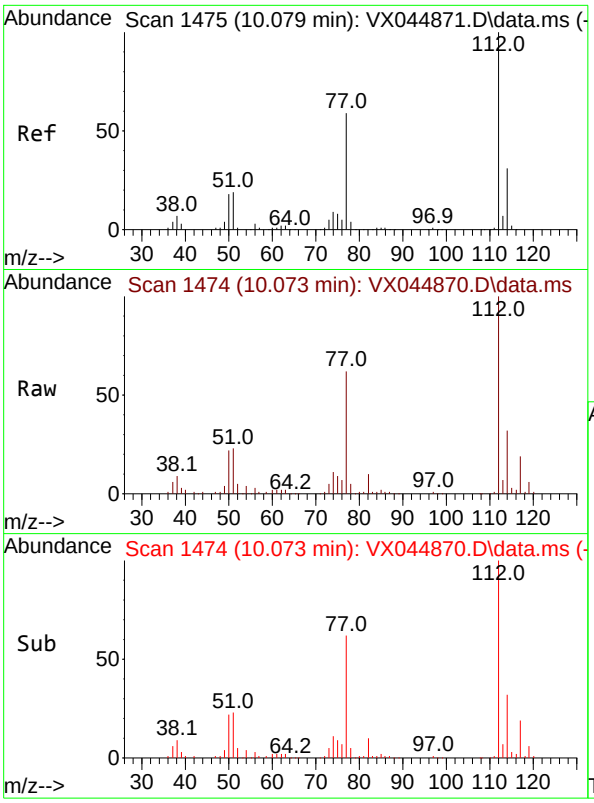


#64
Tetrachloroethene
Concen: 21.776 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:164 Resp: 28519

Ion	Ratio	Lower	Upper
164	100		
166	121.4	100.4	150.6
129	97.6	79.9	119.9
131	93.5	75.9	113.9



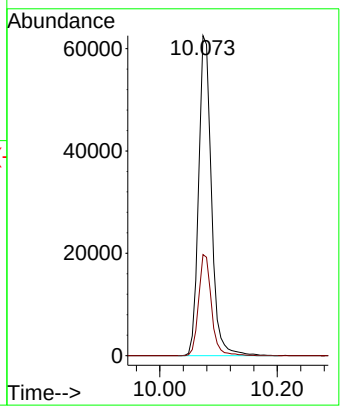


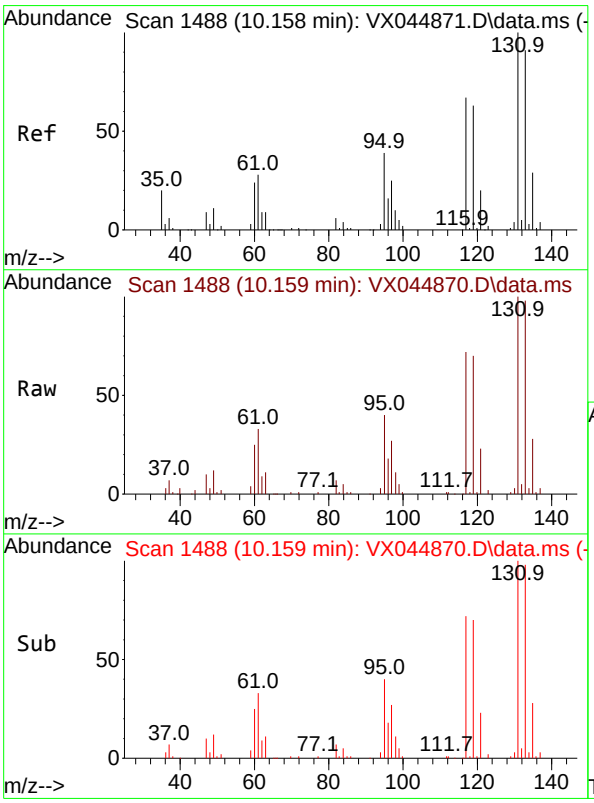
#65
Chlorobenzene
Concen: 21.230 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 94695

Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.0	37.6

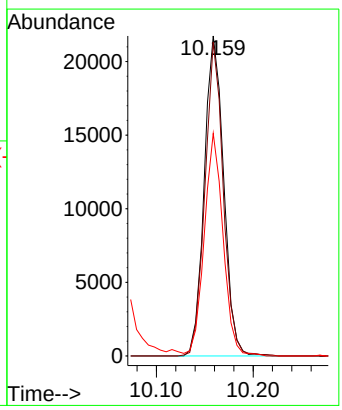


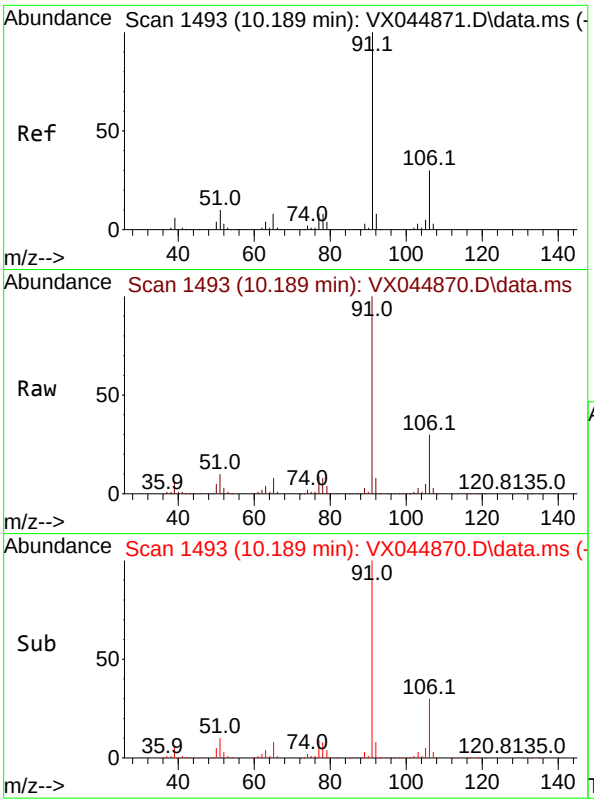


#66
1,1,1,2-Tetrachloroethane
Concen: 21.136 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:131 Resp: 30344

Ion	Ratio	Lower	Upper
131	100		
133	92.9	47.1	141.3
119	67.4	33.6	100.6



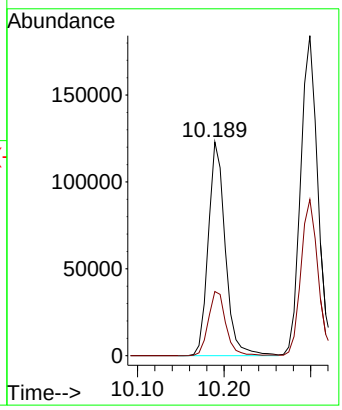


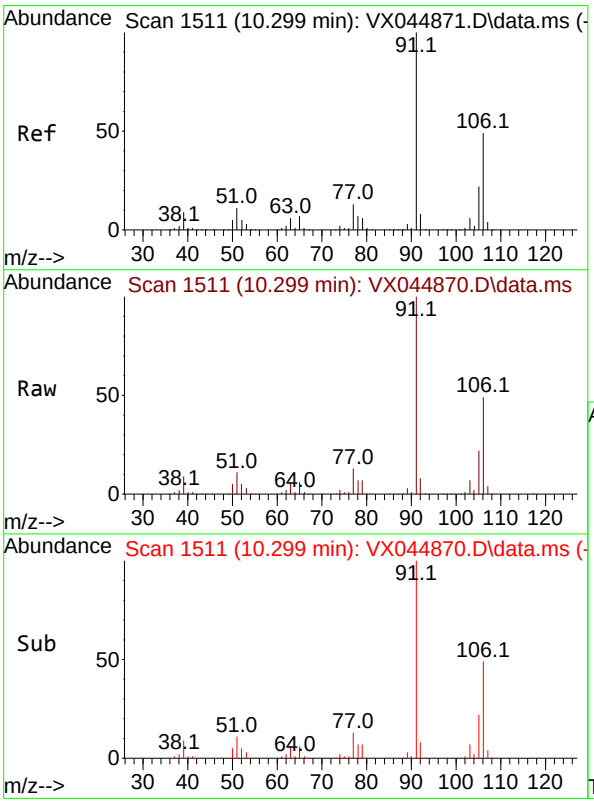
#67
Ethyl Benzene
Concen: 21.327 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 167865

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

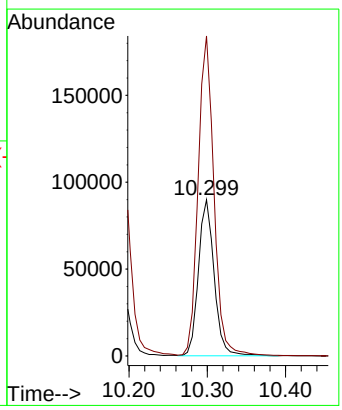


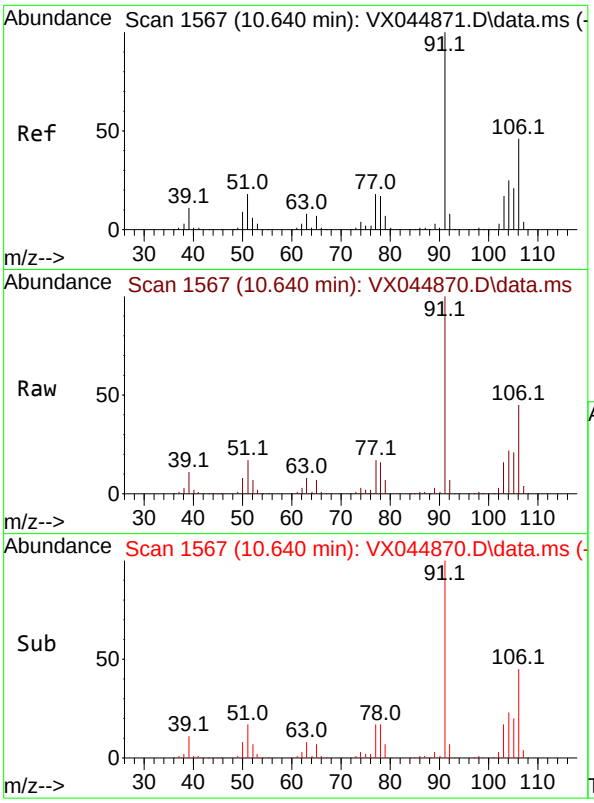


#68
m/p-Xylenes
Concen: 43.144 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:106 Resp: 125271

Ion	Ratio	Lower	Upper
106	100		
91	206.3	164.3	246.5



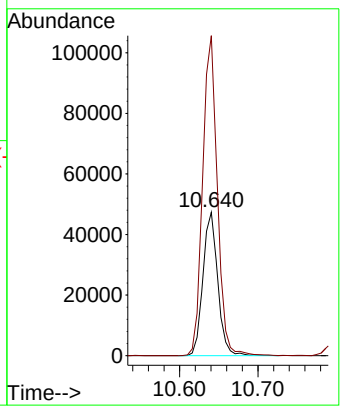


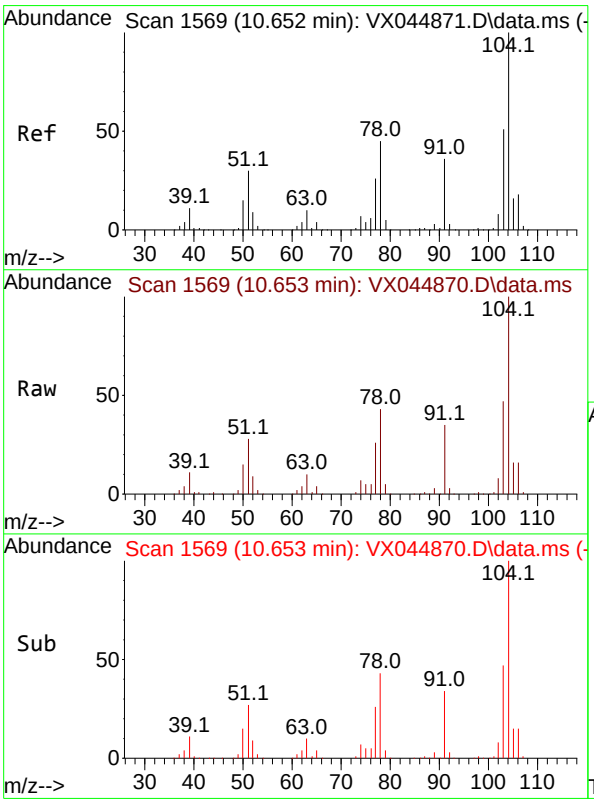
#69
o-Xylene
Concen: 21.310 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 62087

Ion	Ratio	Lower	Upper
106	100		
91	221.5	108.5	325.5

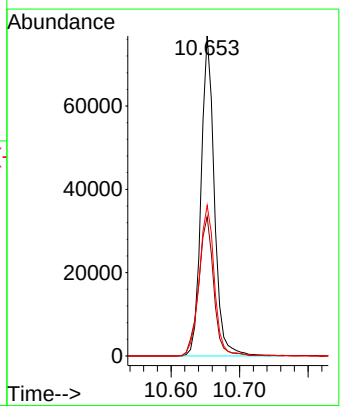


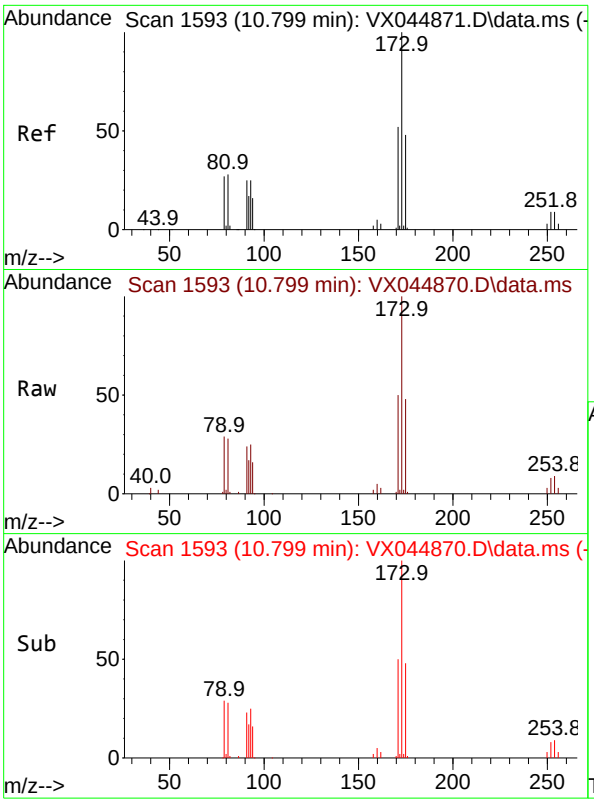


#70
Styrene
Concen: 22.101 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:104 Resp: 103740

Ion	Ratio	Lower	Upper
104	100		
78	49.2	40.5	60.7
103	53.5	43.6	65.4



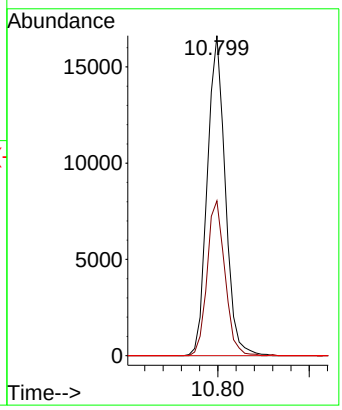


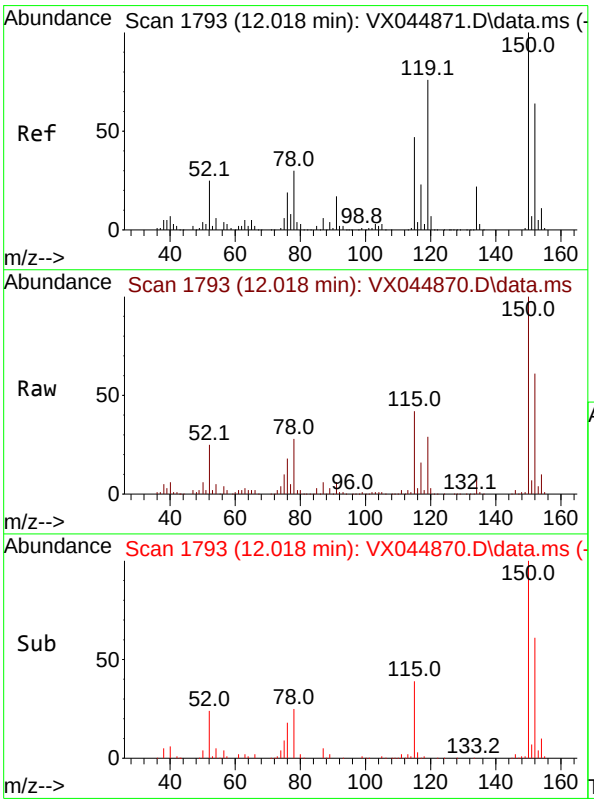
#71
Bromoform
Concen: 21.086 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 22592

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	72.8
254	0.0	0.0	0.0

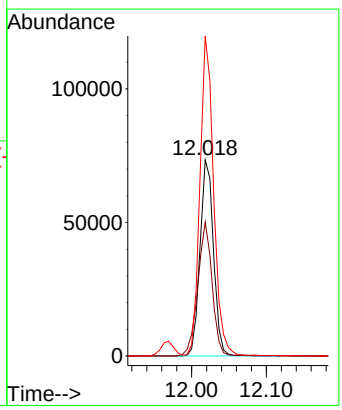


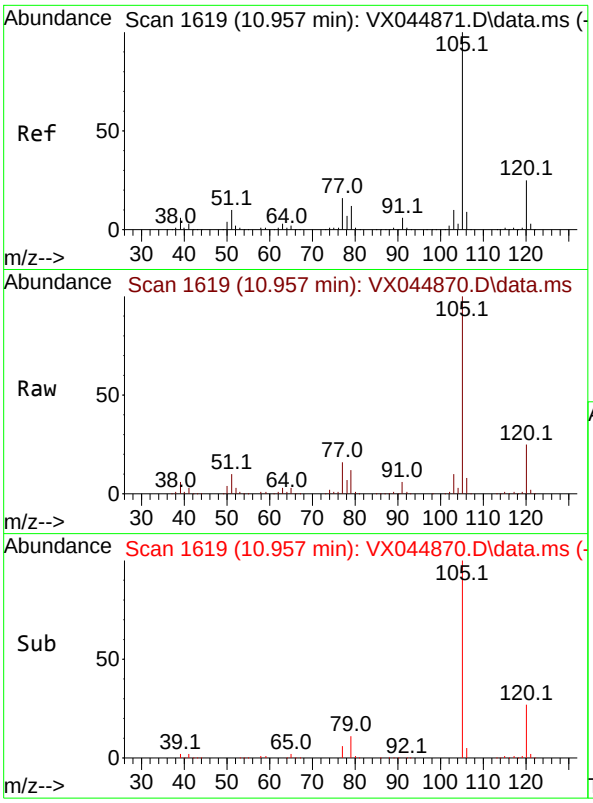


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:152 Resp: 92093

Ion	Ratio	Lower	Upper
152	100		
115	72.4	43.4	130.1
150	164.8	0.0	350.4



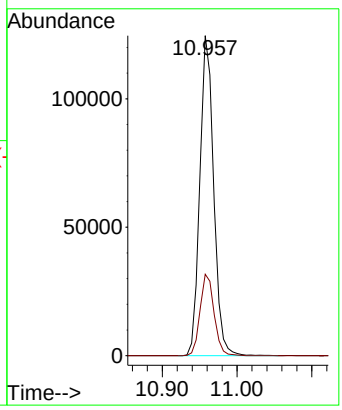


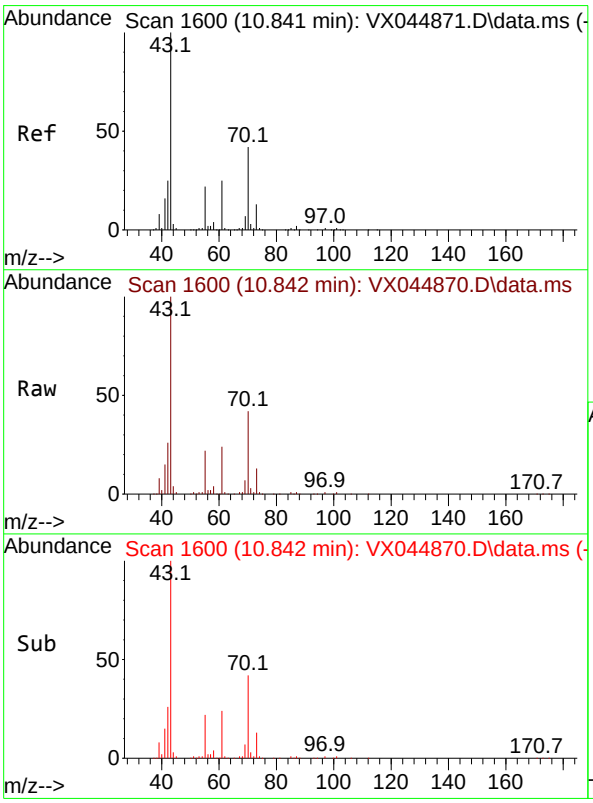
#73
Isopropylbenzene
Concen: 21.597 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 160147

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5

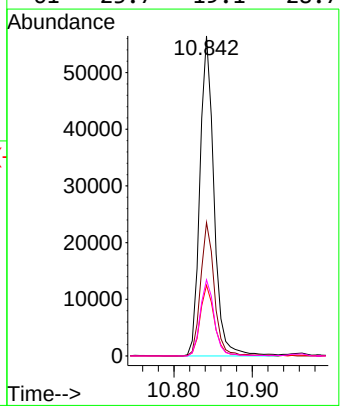


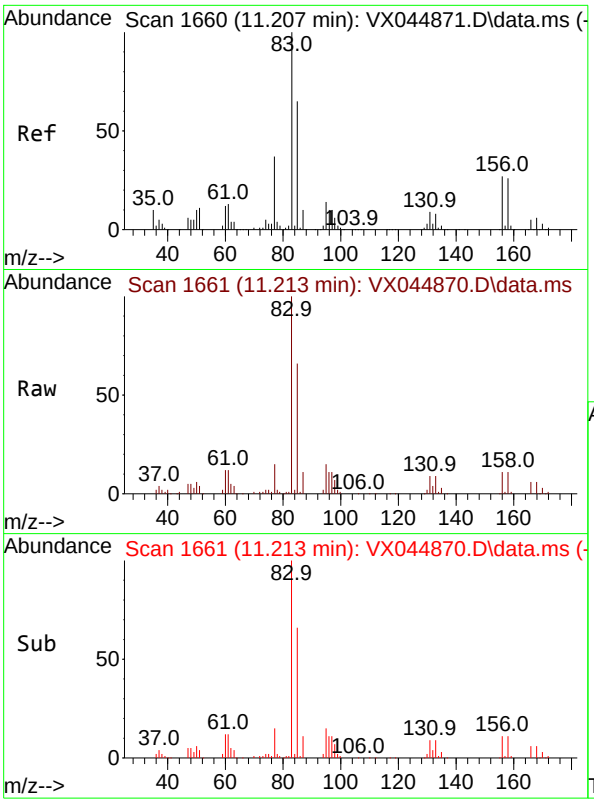


#74
N-amyl acetate
Concen: 21.023 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 70542

Ion	Ratio	Lower	Upper
43	100		
70	40.7	33.7	50.5
55	22.4	18.6	27.8
61	23.7	19.1	28.7



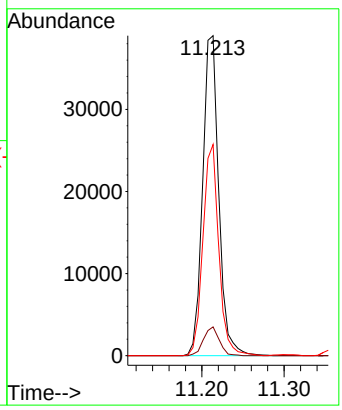


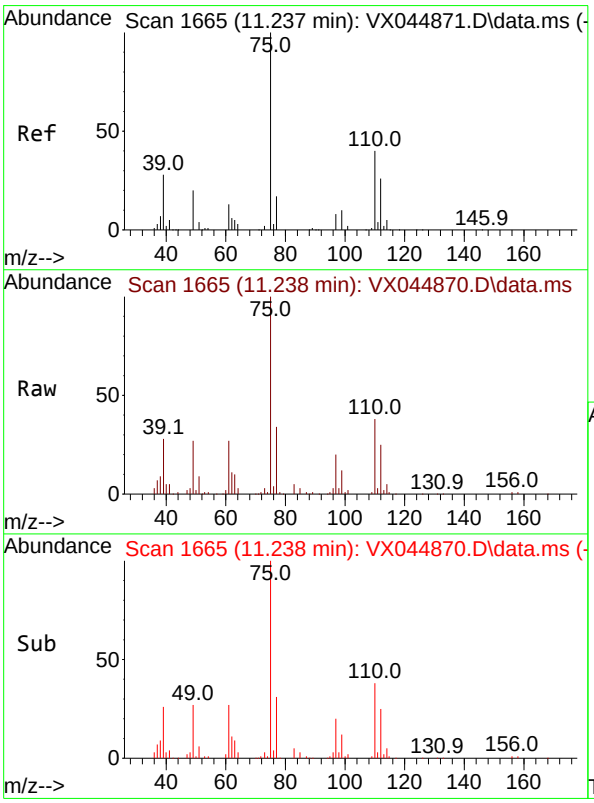
#75
1,1,2,2-Tetrachloroethane
Concen: 20.787 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 52967

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.5
85	65.1	32.3	96.8

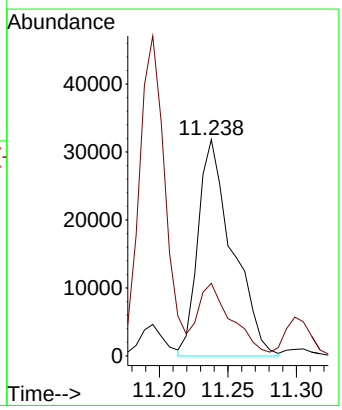


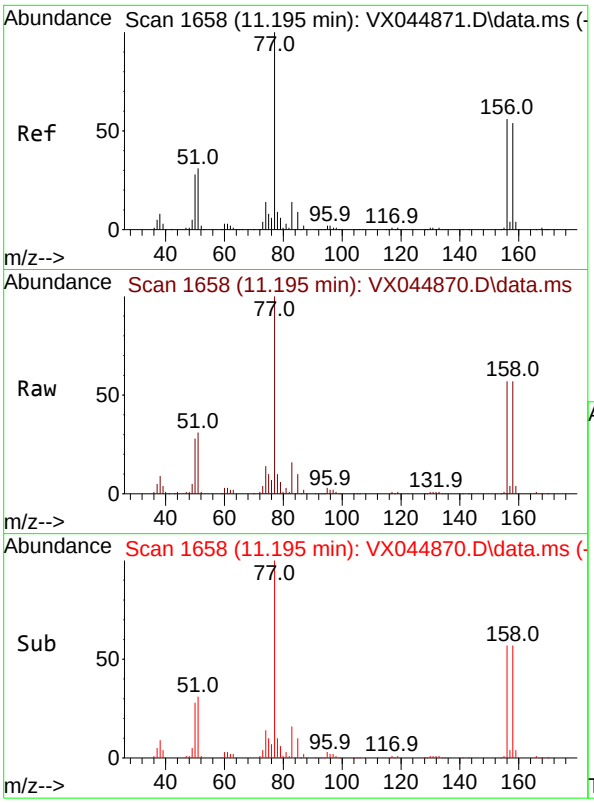


#76
1,2,3-Trichloropropane
Concen: 27.246 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 55632

Ion	Ratio	Lower	Upper
75	100		
77	33.0	21.9	65.7



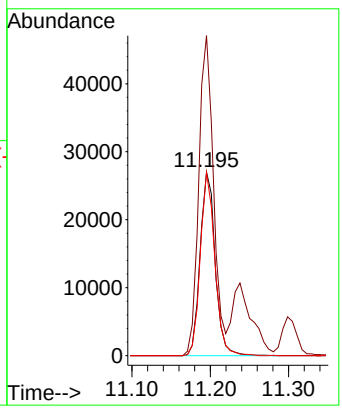


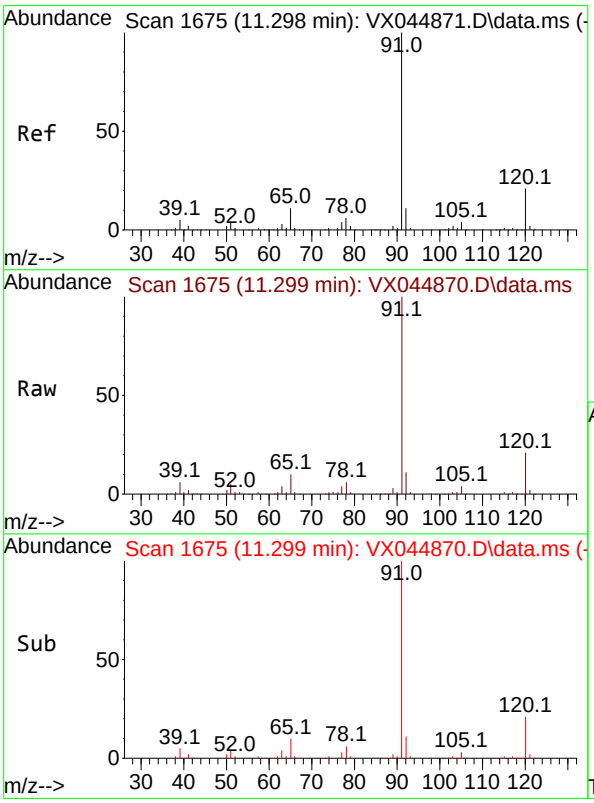
#77
Bromobenzene
Concen: 21.426 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 36021

Ion	Ratio	Lower	Upper
156	100		
77	171.1	88.4	265.3
158	96.8	48.4	145.2

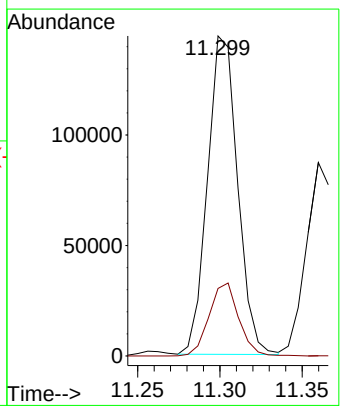


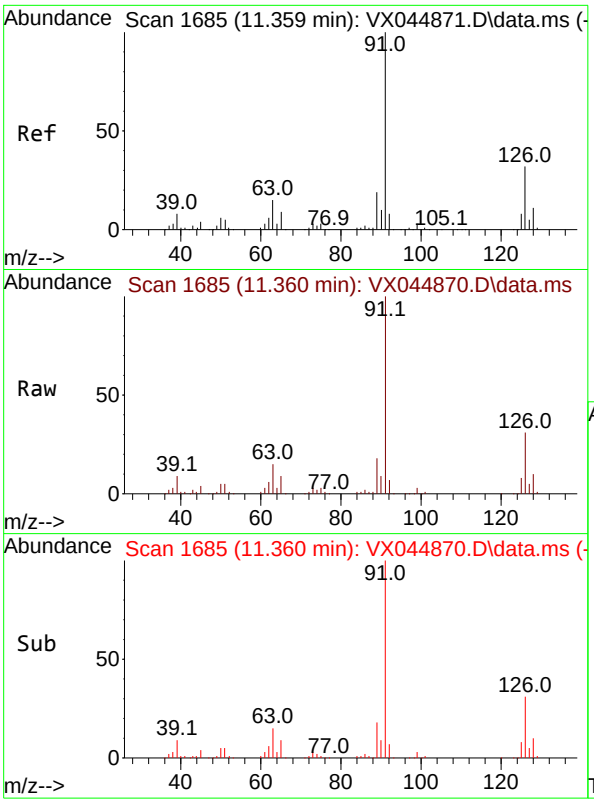


#78
n-propylbenzene
Concen: 21.406 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 183212

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3



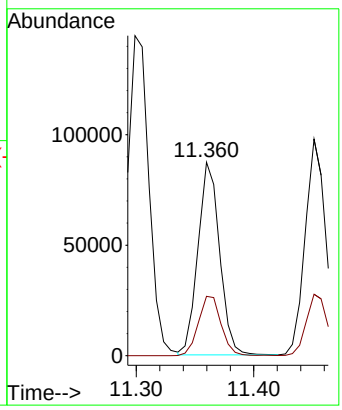


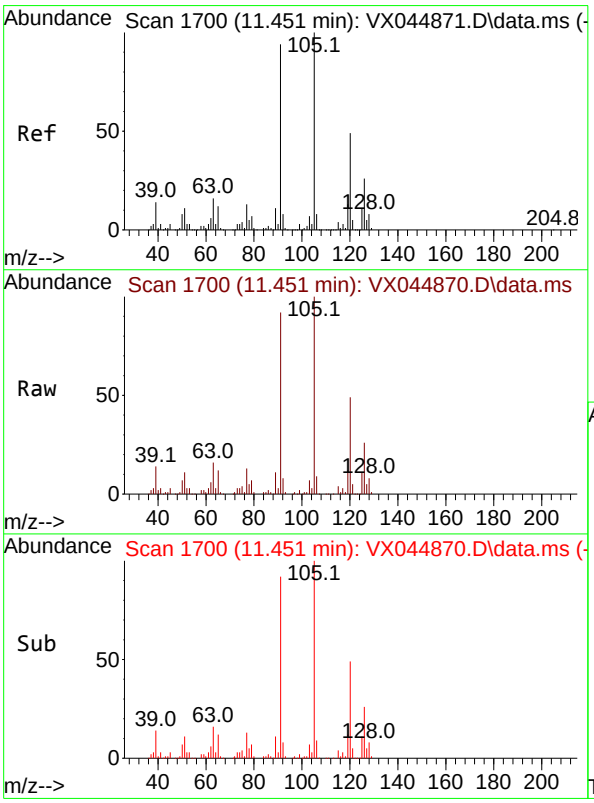
#79
2-Chlorotoluene
Concen: 21.250 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 111782

Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.2	48.6

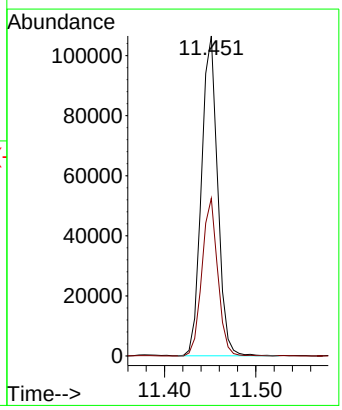


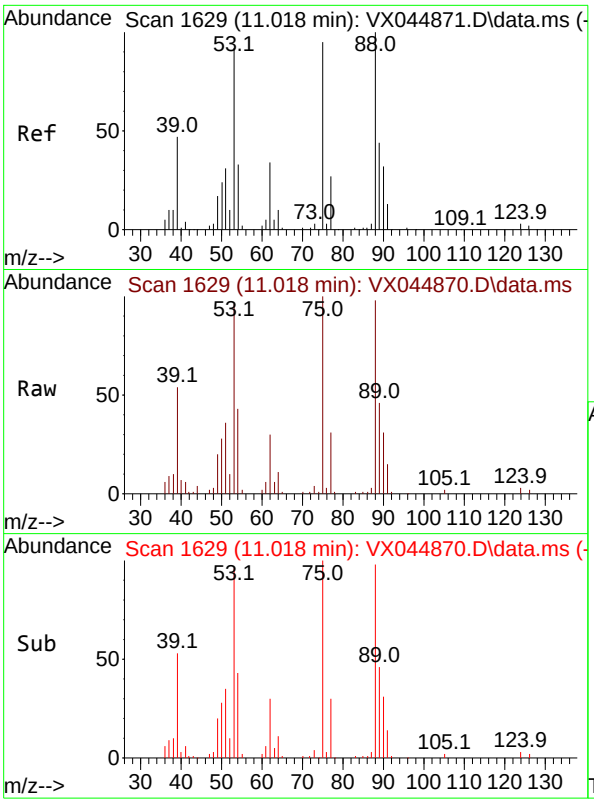


#80
1,3,5-Trimethylbenzene
Concen: 21.691 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 130526

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0



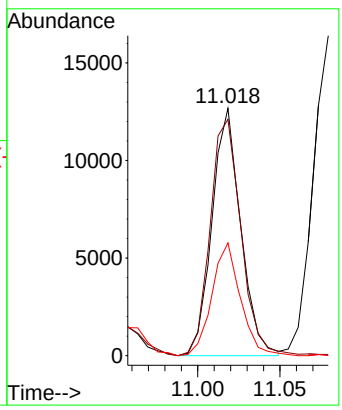


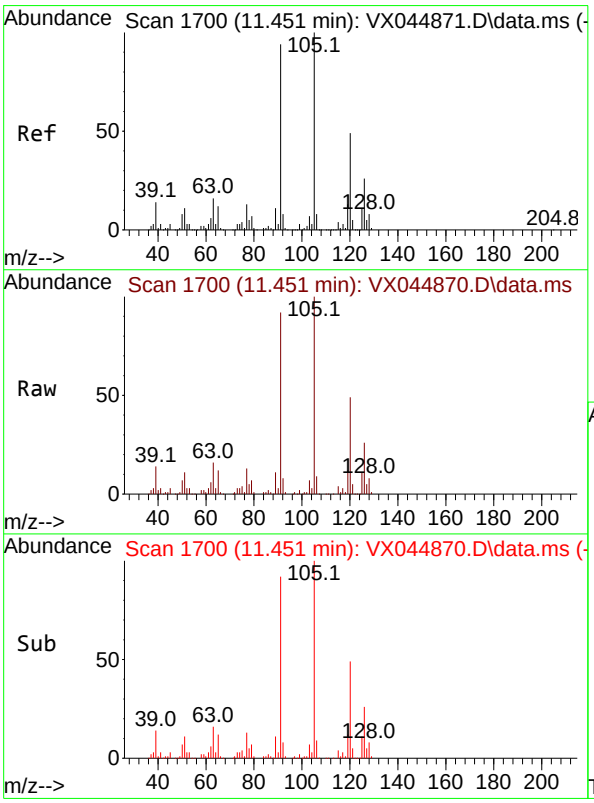
#81
trans-1,4-Dichloro-2-butene
Concen: 19.370 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 15375

Ion	Ratio	Lower	Upper
75	100		
53	103.3	78.0	117.0
89	45.3	36.6	54.8

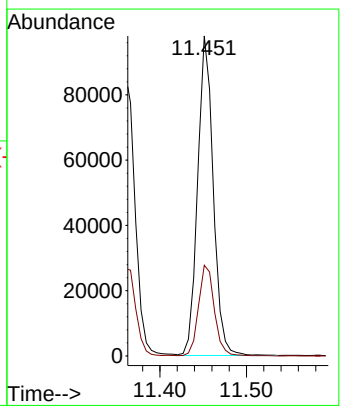


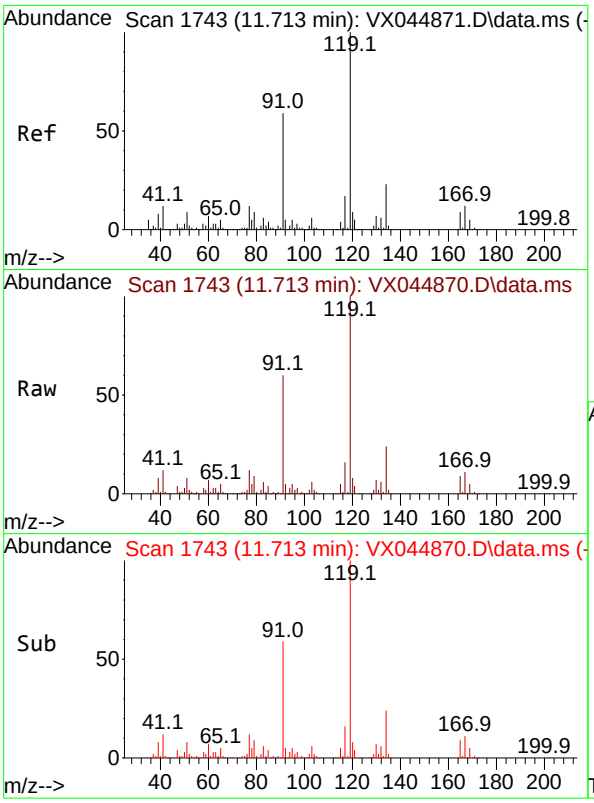


#82
4-Chlorotoluene
Concen: 21.016 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 122303

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6



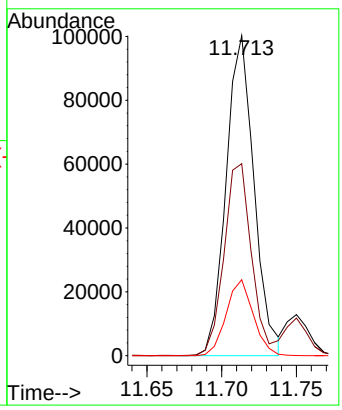


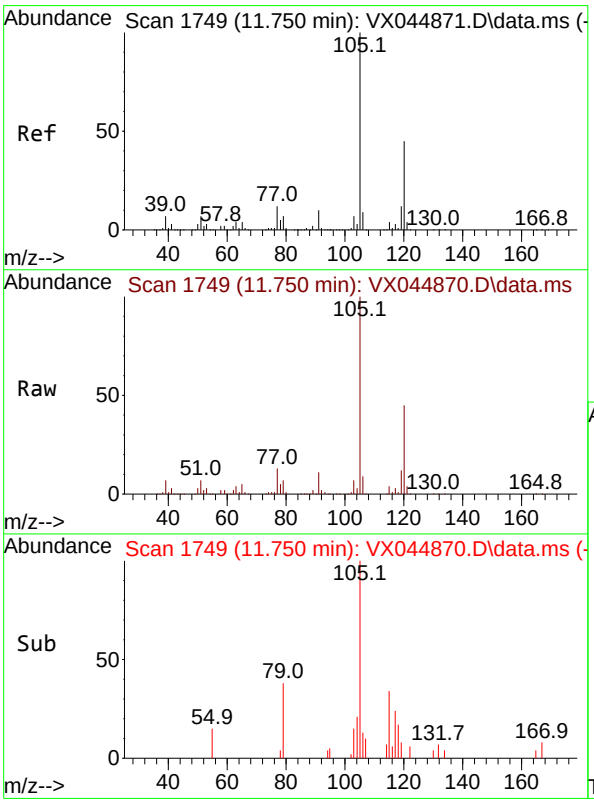
#83
tert-Butylbenzene
Concen: 21.414 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 130358

Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.1	87.4
134	23.1	11.5	34.5

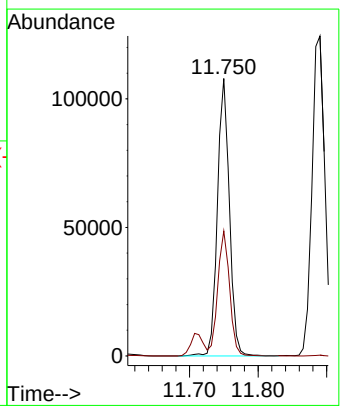


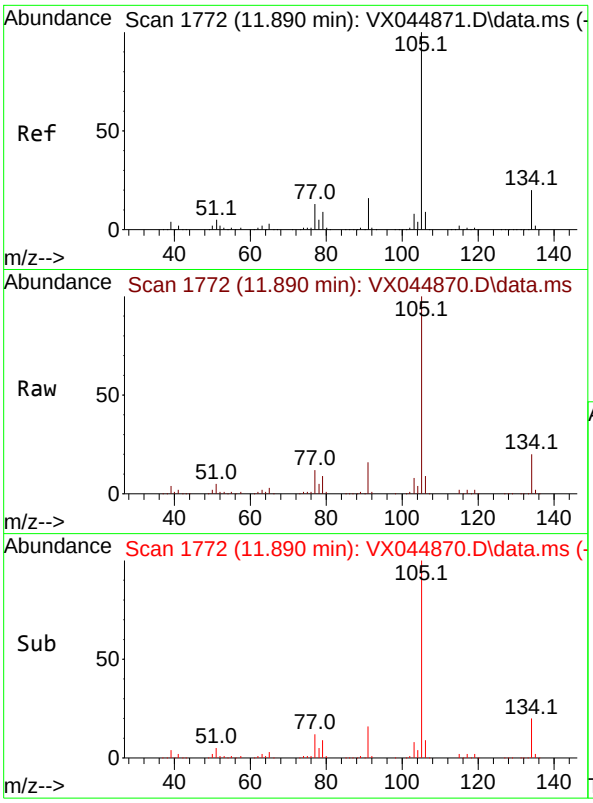


#84
1,2,4-Trimethylbenzene
Concen: 21.924 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 130211

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.0



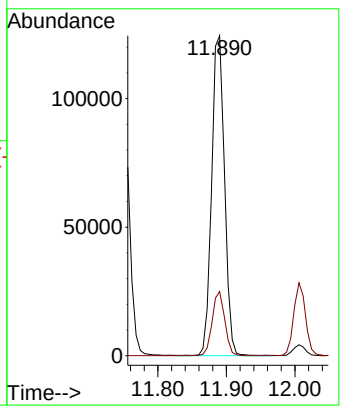


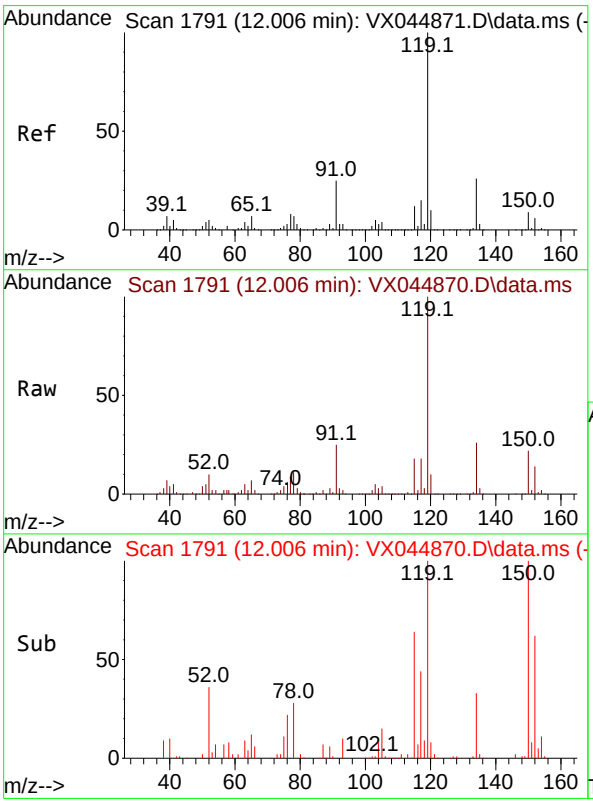
#85
sec-Butylbenzene
Concen: 21.607 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 162875

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3

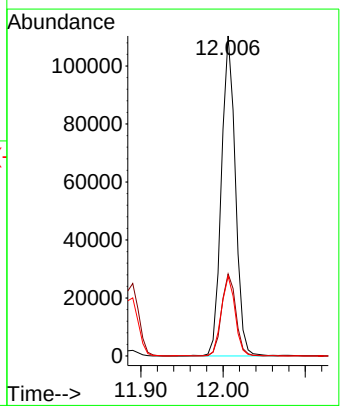


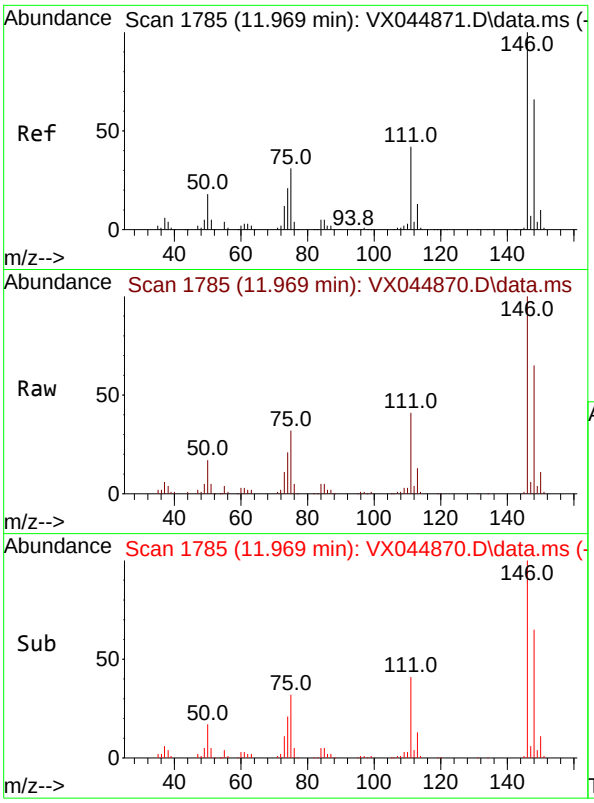


#86
p-Isopropyltoluene
Concen: 21.551 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:119 Resp: 130643

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	24.7	12.1	36.3



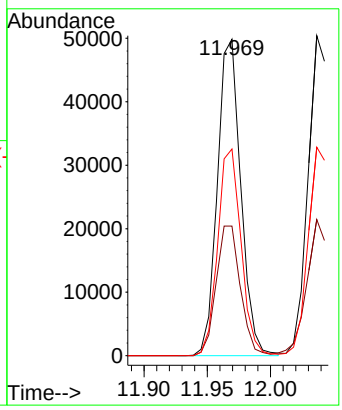


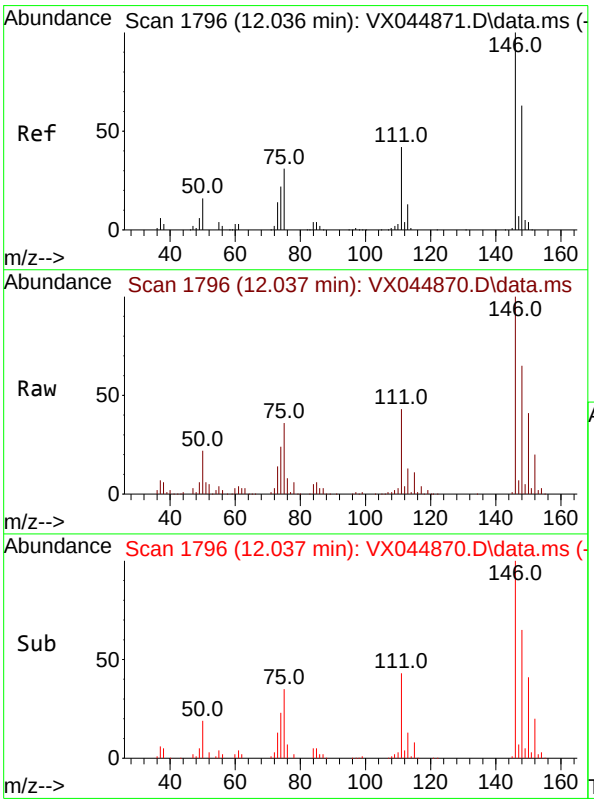
#87
1,3-Dichlorobenzene
Concen: 20.747 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 64141

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.2	32.5	97.5

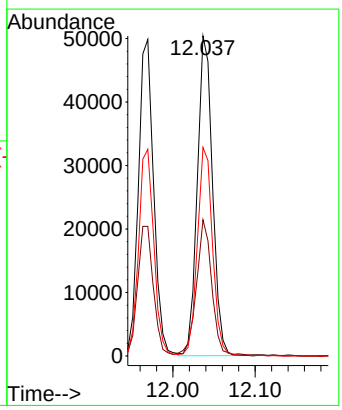


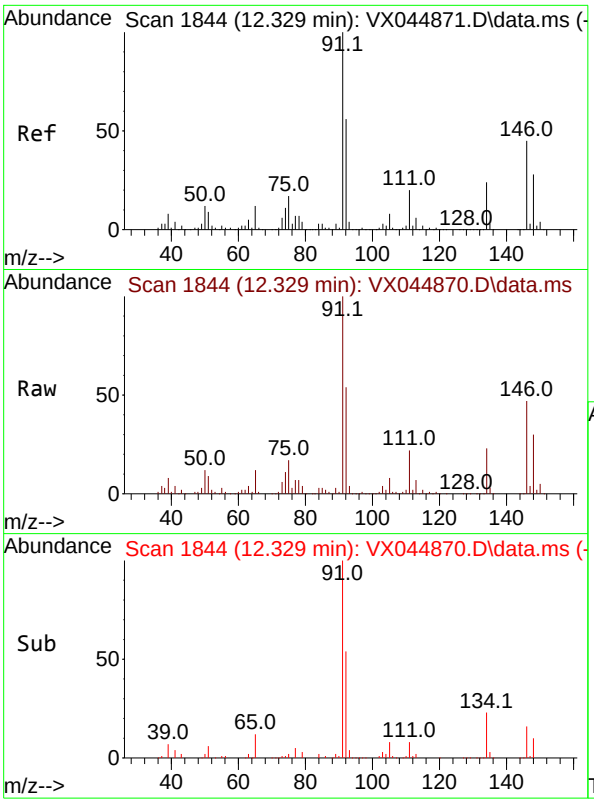


#88
1,4-Dichlorobenzene
Concen: 20.758 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:146 Resp: 64889

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.4	61.3
148	65.3	32.0	96.0



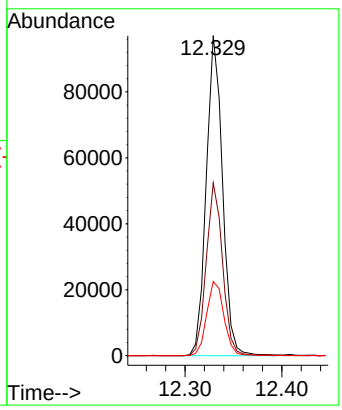


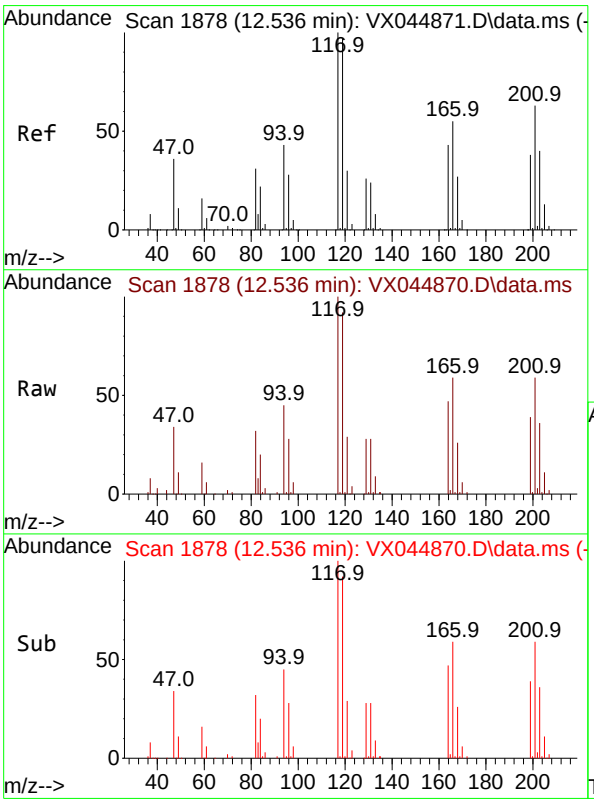
#89
n-Butylbenzene
Concen: 21.202 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 113705

Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.2	81.6
134	24.7	12.1	36.3

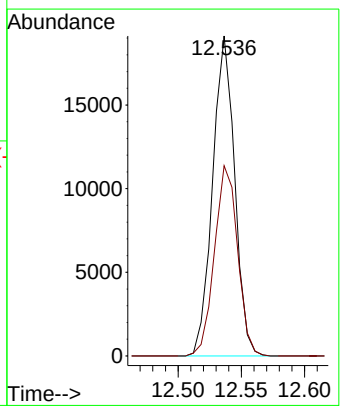


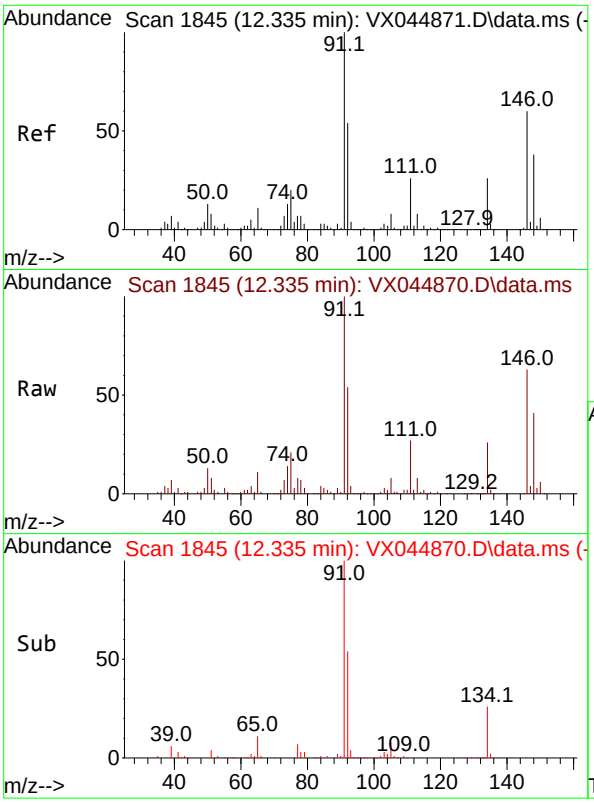


#90
Hexachloroethane
Concen: 20.398 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 23153

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.5	97.5



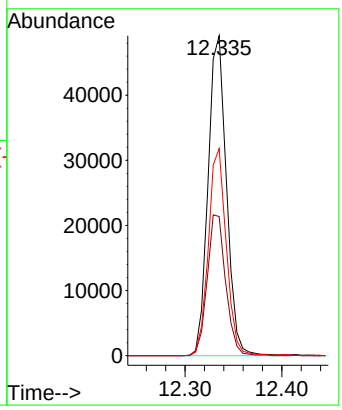


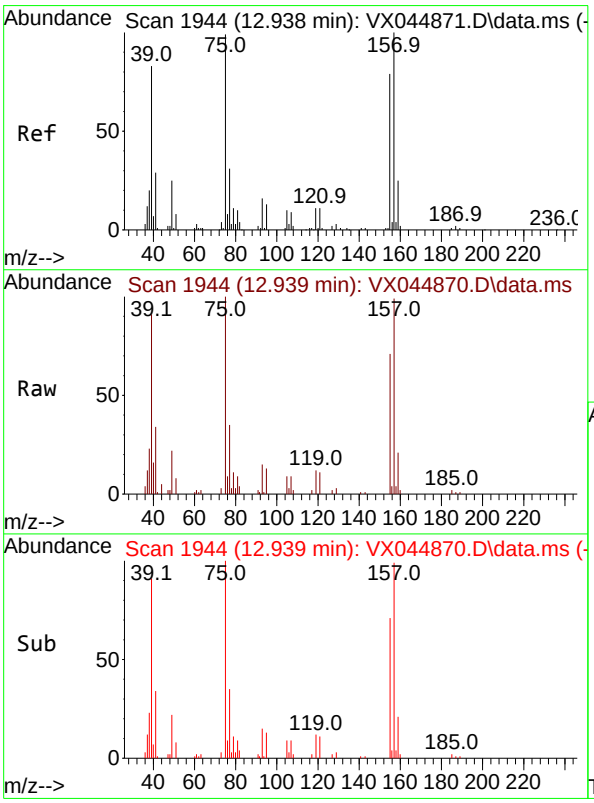
#91
1,2-Dichlorobenzene
Concen: 21.373 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 64940

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.8	65.4
148	63.3	31.9	95.9

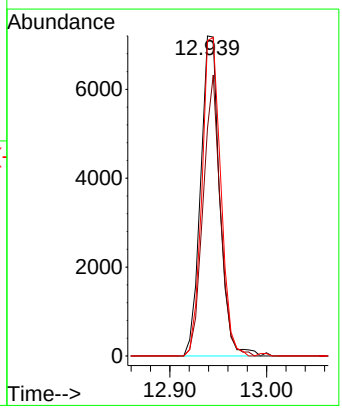


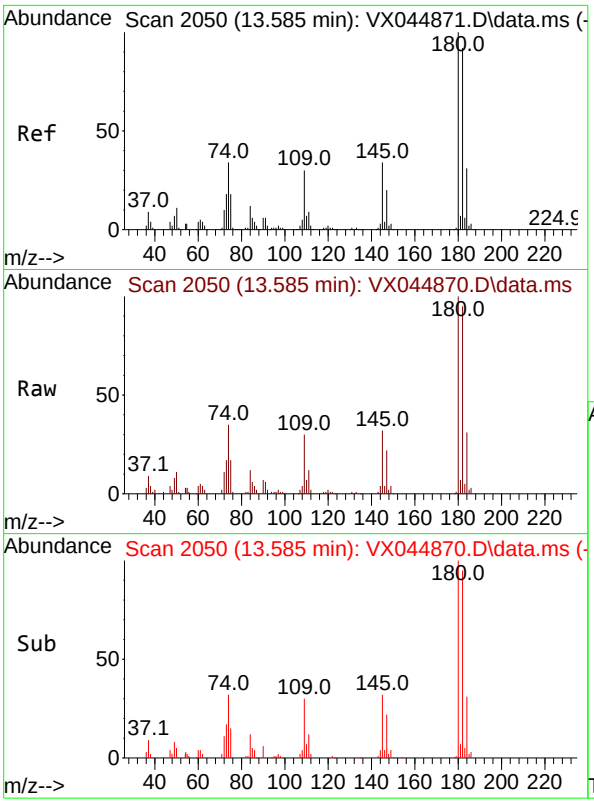


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.230 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 9873

Ion	Ratio	Lower	Upper
75	100		
155	79.8	40.5	121.4
157	98.3	51.4	154.3



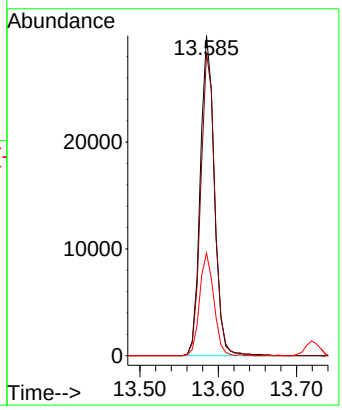


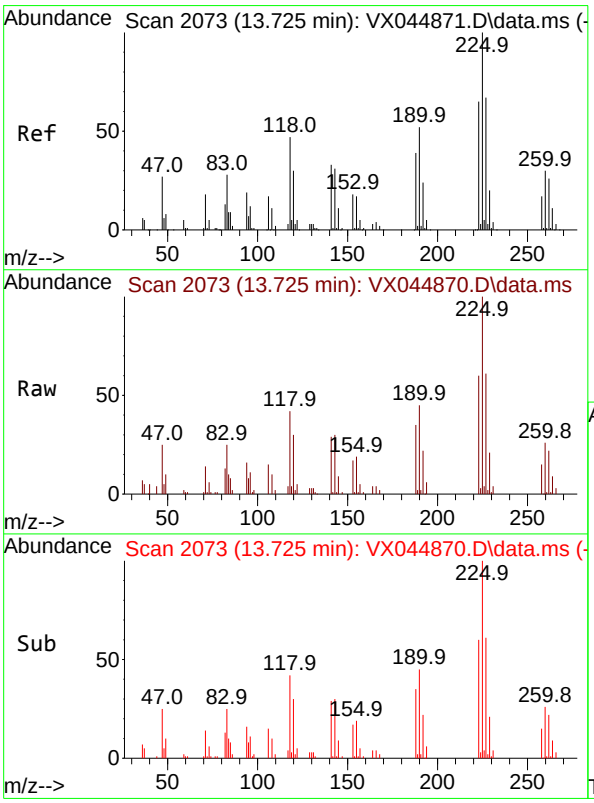
#93
1,2,4-Trichlorobenzene
Concen: 20.292 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 37308

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.6	142.8
145	32.4	16.4	49.1

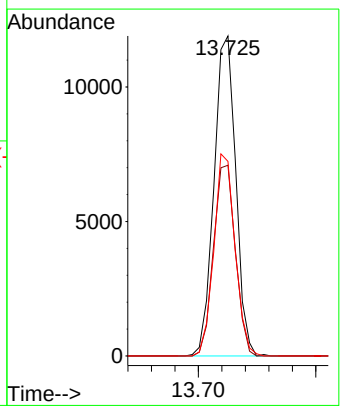


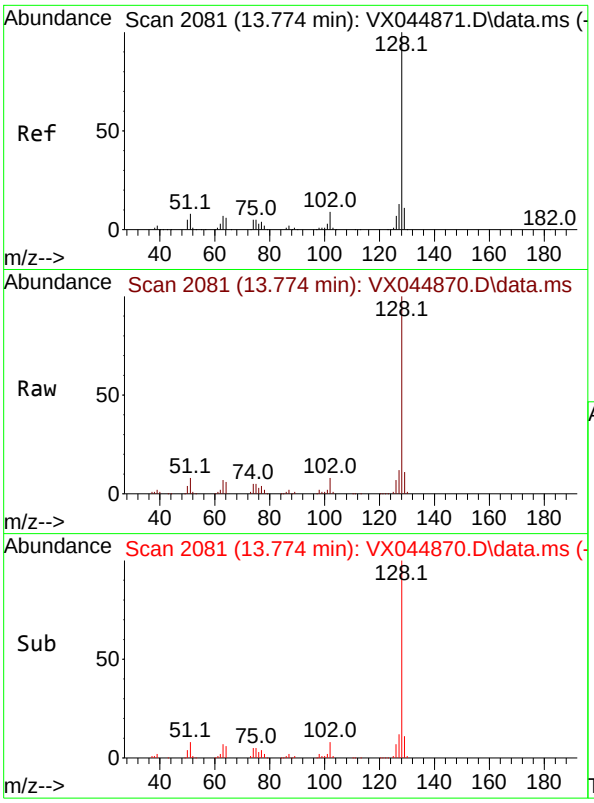


#94
Hexachlorobutadiene
Concen: 20.979 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:225 Resp: 15312

Ion	Ratio	Lower	Upper
225	100		
223	59.9	31.4	94.2
227	61.4	32.3	96.8



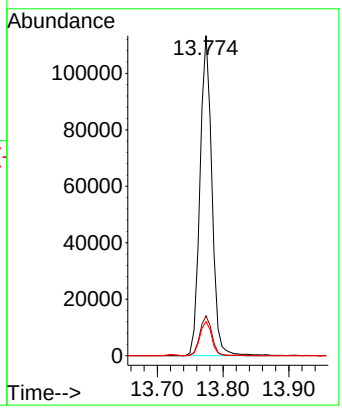


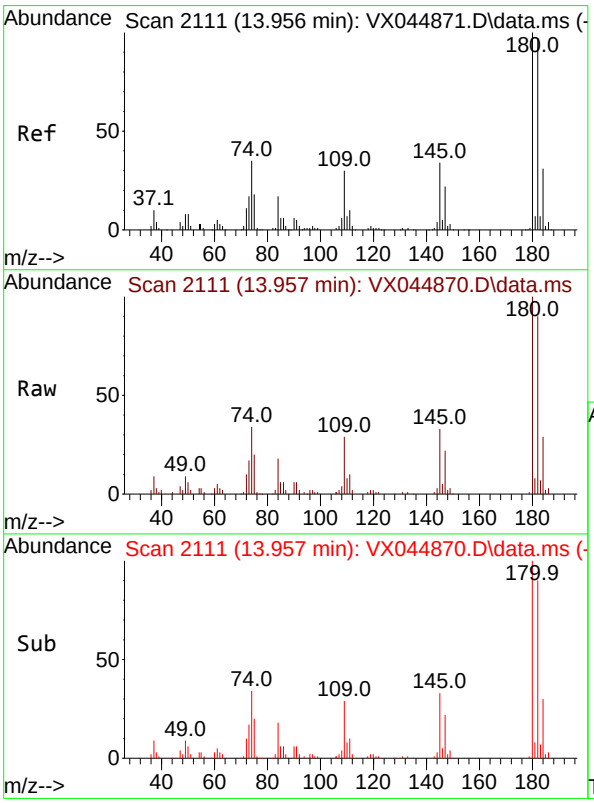
#95
Naphthalene
Concen: 21.502 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 142902

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.6	8.9	13.3

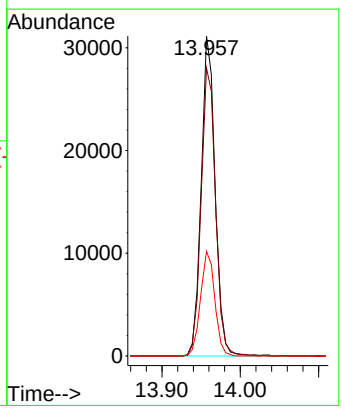




#96
1,2,3-Trichlorobenzene
Concen: 20.722 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:180 Resp: 38389

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.9	143.6
145	33.5	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	127984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233736	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	204751	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92593	49.424	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.840%			
35) Dibromofluoromethane	5.379	113	74906	49.291	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.580%			
50) Toluene-d8	8.646	98	289575	50.392	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.780%			
62) 4-Bromofluorobenzene	11.079	95	100798	52.031	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	89581	49.905	ug/l	100
3) Chloromethane	1.300	50	107836	49.359	ug/l	100
4) Vinyl Chloride	1.373	62	103354	48.832	ug/l	100
5) Bromomethane	1.593	94	31886	50.345	ug/l	100
6) Chloroethane	1.666	64	43657	55.583	ug/l	100
7) Trichlorofluoromethane	1.873	101	131729	49.215	ug/l	100
8) Diethyl Ether	2.129	74	48023	49.473	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.318	101	80068	49.511	ug/l	100
10) Methyl Iodide	2.446	142	108383	51.712	ug/l	100
11) Tert butyl alcohol	2.983	59	87254	251.049	ug/l	100
12) 1,1-Dichloroethene	2.312	96	80672	48.904	ug/l	100
13) Acrolein	2.233	56	90518	252.426	ug/l	100
14) Allyl chloride	2.660	41	148044	49.658	ug/l	100
15) Acrylonitrile	3.062	53	242268	261.074	ug/l	100
16) Acetone	2.379	43	187739	249.274	ug/l	100
17) Carbon Disulfide	2.501	76	225511	49.853	ug/l	100
18) Methyl Acetate	2.702	43	121039	50.928	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	261852	49.890	ug/l	100
20) Methylene Chloride	2.782	84	90038	48.808	ug/l	100
21) trans-1,2-Dichloroethene	3.086	96	81950	50.475	ug/l	100
22) Diisopropyl ether	3.757	45	287347	50.946	ug/l	100
23) Vinyl Acetate	3.714	43	1190152	258.830	ug/l	100
24) 1,1-Dichloroethane	3.605	63	157003	49.749	ug/l	100
25) 2-Butanone	4.556	43	323510	264.528	ug/l	100
26) 2,2-Dichloropropane	4.470	77	121901	48.707	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	96965	49.721	ug/l	100
28) Bromochloromethane	4.891	49	74707	49.258	ug/l	100
29) Tetrahydrofuran	5.001	42	210414	259.105	ug/l	100
30) Chloroform	5.086	83	149581	48.874	ug/l	100
31) Cyclohexane	5.464	56	143500	49.322	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	128561	49.523	ug/l	100
36) 1,1-Dichloropropene	5.690	75	108206	49.353	ug/l	100
37) Ethyl Acetate	4.708	43	123238	50.535	ug/l	100
38) Carbon Tetrachloride	5.671	117	105873	49.277	ug/l	100
39) Methylcyclohexane	7.372	83	145338	51.274	ug/l	100
40) Benzene	6.031	78	343557	50.182	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.915	41	70572	54.065	ug/l		100
42) 1,2-Dichloroethane	6.080	62	110347	50.573	ug/l		100
43) Isopropyl Acetate	6.336	43	204703	51.981	ug/l		100
44) Trichloroethene	7.122	130	78274	50.020	ug/l		100
45) 1,2-Dichloropropane	7.427	63	85733	50.335	ug/l		100
46) Dibromomethane	7.573	93	59625	50.479	ug/l		100
47) Bromodichloromethane	7.817	83	116892	51.108	ug/l		100
48) Methyl methacrylate	7.689	41	98519	53.057	ug/l		100
49) 1,4-Dioxane	7.659	88	42094	1056.618	ug/l		100
51) 4-Methyl-2-Pentanone	8.573	43	647283	270.364	ug/l		100
52) Toluene	8.714	92	210007	51.507	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	120125	51.902	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	134763	52.223	ug/l		100
55) 1,1,2-Trichloroethane	9.146	97	79741	50.876	ug/l		100
56) Ethyl methacrylate	9.116	69	134975	53.319	ug/l		100
57) 1,3-Dichloropropane	9.305	76	141335	51.537	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	336412	270.652	ug/l		100
59) 2-Hexanone	9.427	43	472301	273.800	ug/l		100
60) Dibromochloromethane	9.518	129	87240	52.045	ug/l		100
61) 1,2-Dibromoethane	9.604	107	81915	51.564	ug/l		100
64) Tetrachloroethene	9.268	164	63537	49.206	ug/l		100
65) Chlorobenzene	10.079	112	224306	51.005	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.158	131	72478	51.203	ug/l		100
67) Ethyl Benzene	10.189	91	396269	51.061	ug/l		100
68) m/p-Xylenes	10.299	106	296507	103.573	ug/l		100
69) o-Xylene	10.640	106	144802	50.409	ug/l		100
70) Styrene	10.652	104	245518	53.051	ug/l		100
71) Bromoform	10.799	173	57417	54.352	ug/l	#	100
73) Isopropylbenzene	10.957	105	374776	50.239	ug/l		100
74) N-amyl acetate	10.841	43	176174	52.189	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	126542	49.364	ug/l		100
76) 1,2,3-Trichloropropane	11.237	75	136881	66.637	ug/l		83
77) Bromobenzene	11.195	156	84448	49.931	ug/l		100
78) n-propylbenzene	11.298	91	437572	50.818	ug/l		100
79) 2-Chlorotoluene	11.359	91	263269	49.749	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	307465	50.789	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	40487	50.701	ug/l		100
82) 4-Chlorotoluene	11.451	91	295844	50.531	ug/l		100
83) tert-Butylbenzene	11.713	119	306830	50.102	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	311205	52.085	ug/l		100
85) sec-Butylbenzene	11.890	105	384155	50.657	ug/l		100
86) p-Isopropyltoluene	12.006	119	315226	51.689	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	155575	50.021	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	156162	49.657	ug/l		100
89) n-Butylbenzene	12.329	91	287649	53.315	ug/l		100
90) Hexachloroethane	12.536	117	56951	49.874	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	154364	50.500	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	23924	51.135	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	93863	50.747	ug/l		100
94) Hexachlorobutadiene	13.725	225	35481	48.321	ug/l		100
95) Naphthalene	13.774	128	347645	51.995	ug/l		100
96) 1,2,3-Trichlorobenzene	13.956	180	95510	51.245	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

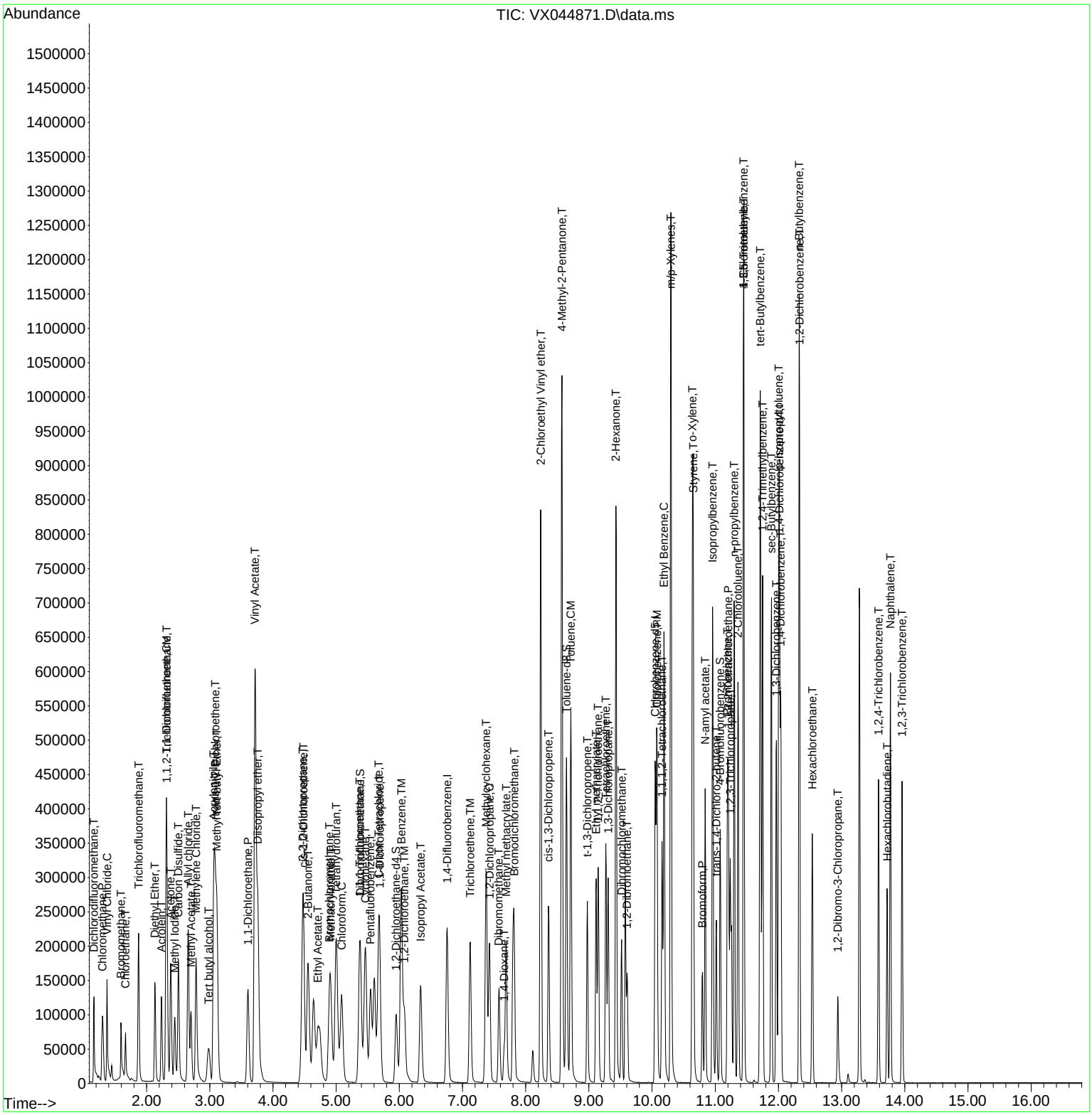
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

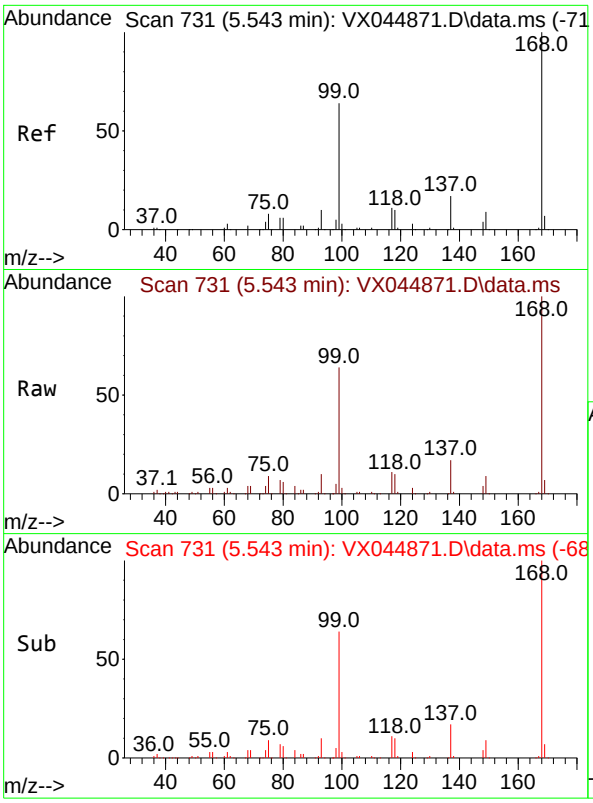
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



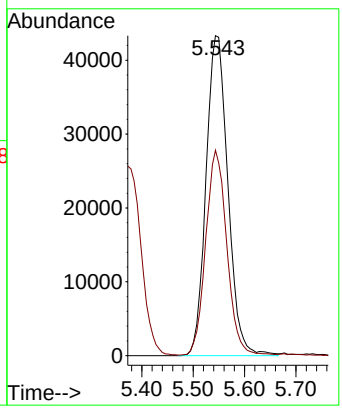


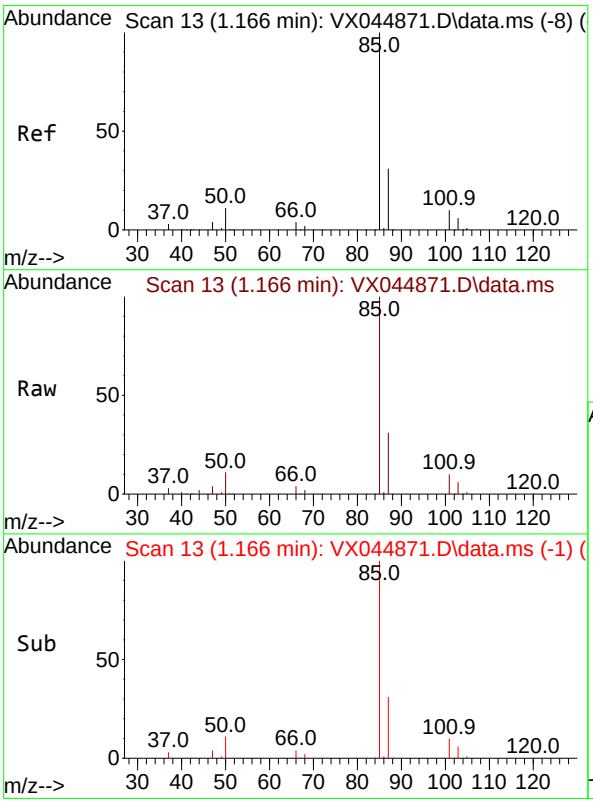
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 127984

Ion	Ratio	Lower	Upper
168	100		
99	64.0	51.2	76.8

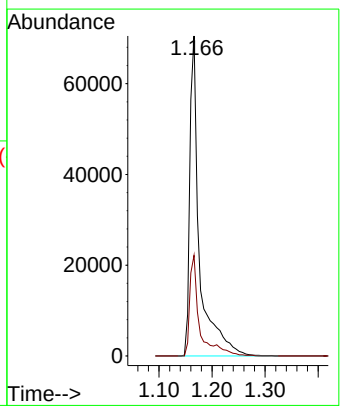


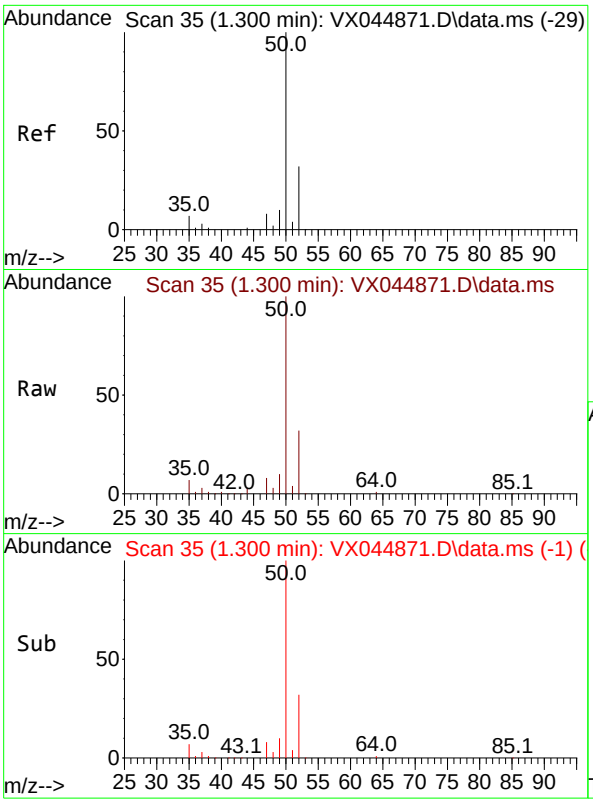


#2
Dichlorodifluoromethane
Concen: 49.905 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 85 Resp: 89581

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3



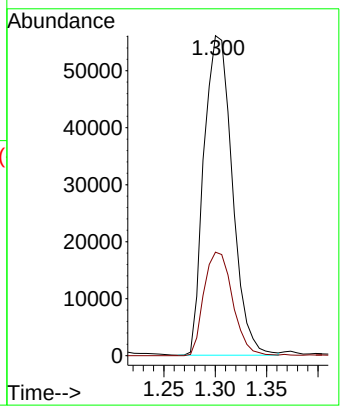


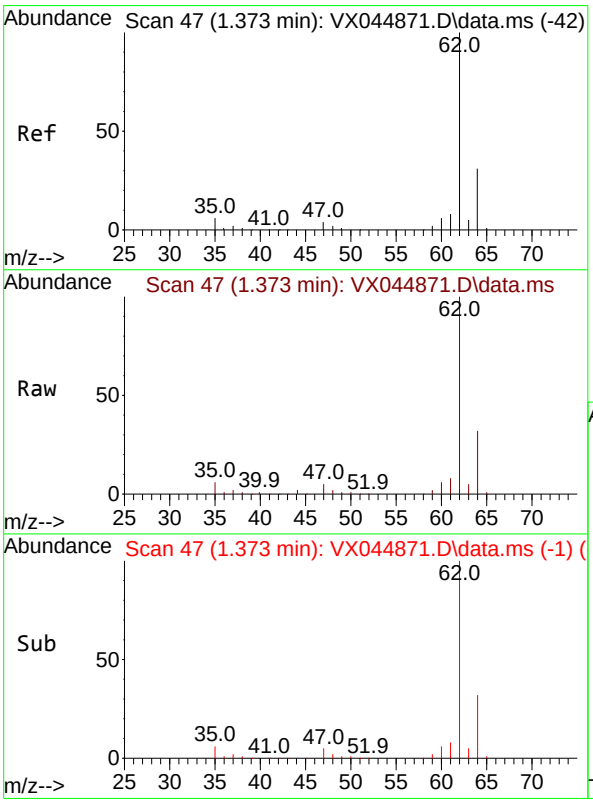
#3
Chloromethane
Concen: 49.359 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 107836

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9

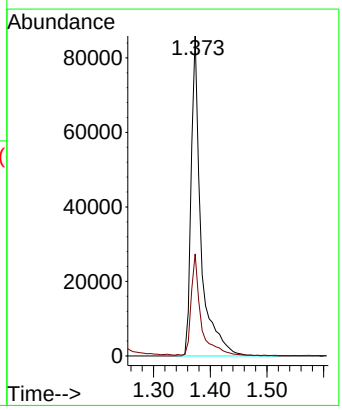


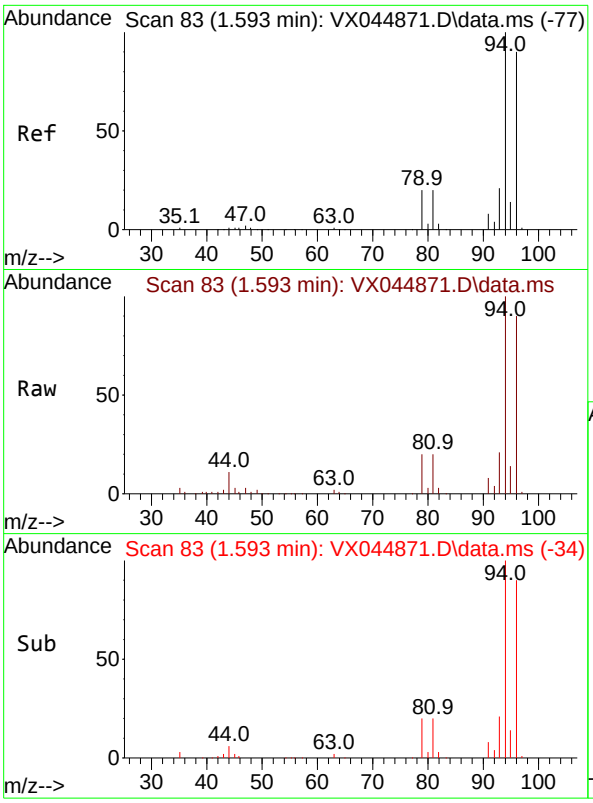


#4
Vinyl Chloride
Concen: 48.832 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 103354

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0



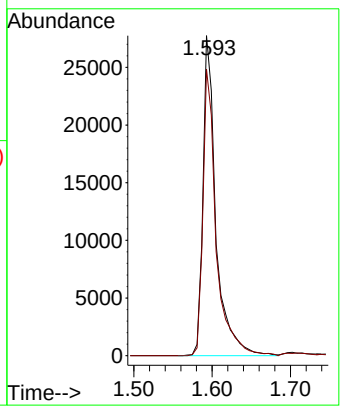


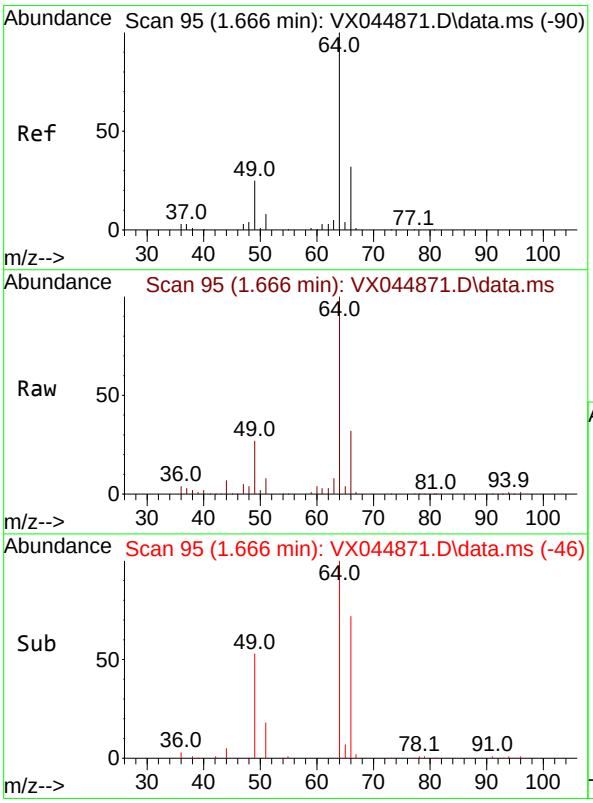
#5
Bromomethane
Concen: 50.345 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 31886

Ion	Ratio	Lower	Upper
94	100		
96	89.5	71.6	107.4

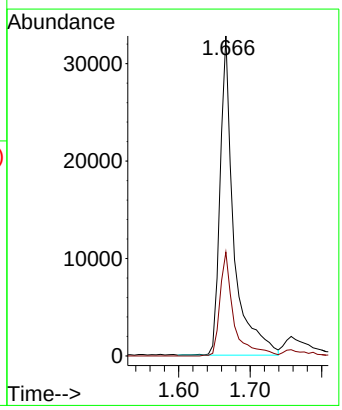


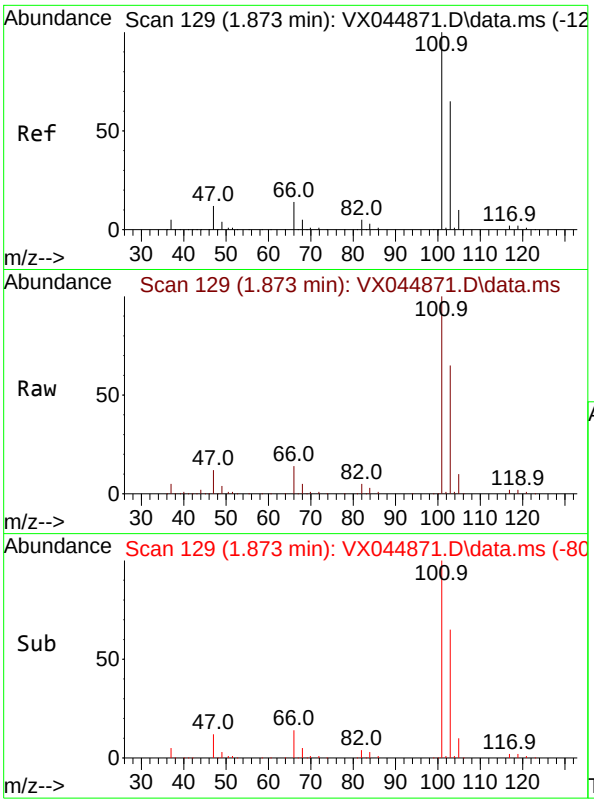


#6
Chloroethane
Concen: 55.583 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 64 Resp: 43657

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.9	38.9



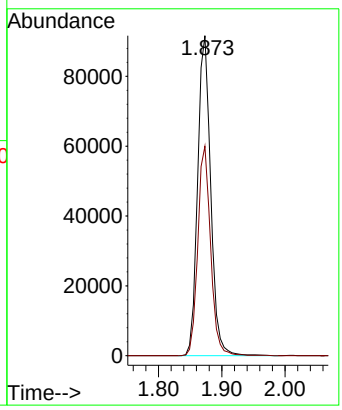


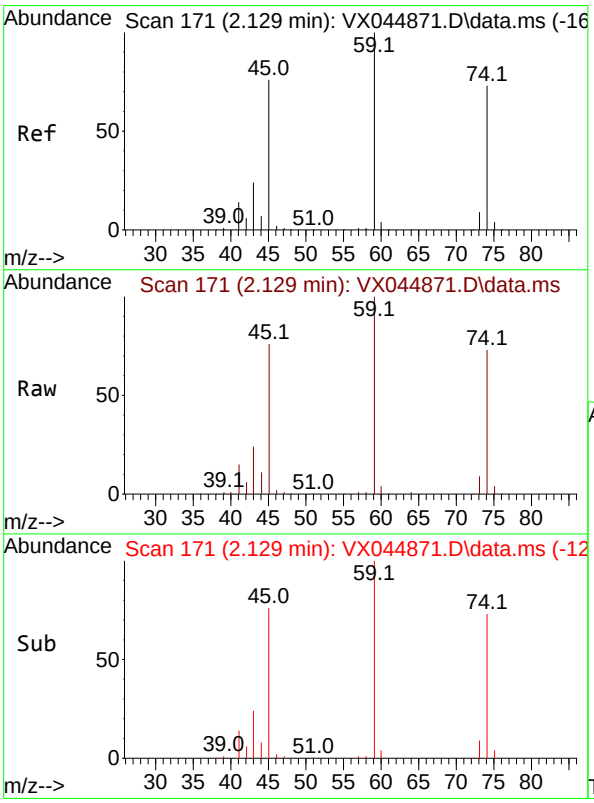
#7
Trichlorofluoromethane
Concen: 49.215 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 131729

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.4	78.6

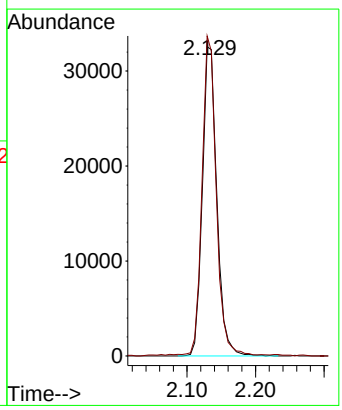


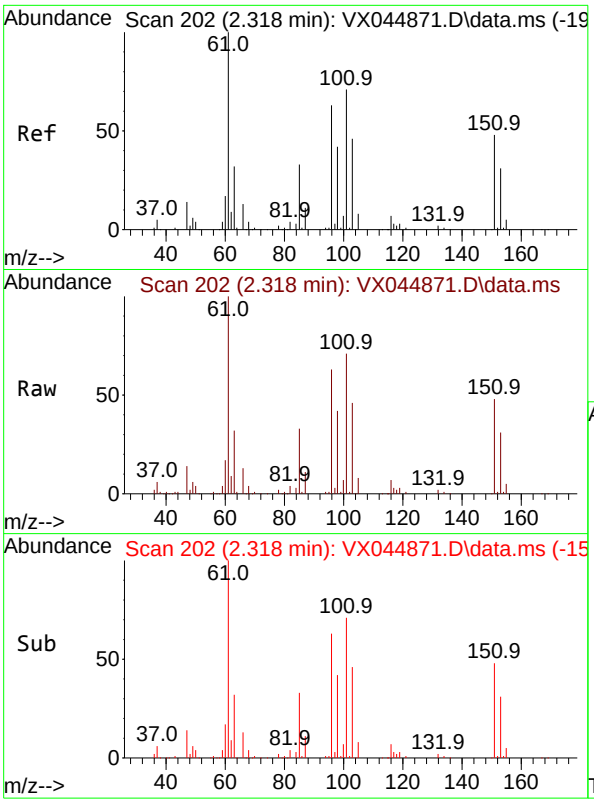


#8
Diethyl Ether
Concen: 49.473 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 74 Resp: 48023

Ion	Ratio	Lower	Upper
74	100		
45	102.3	51.1	153.4



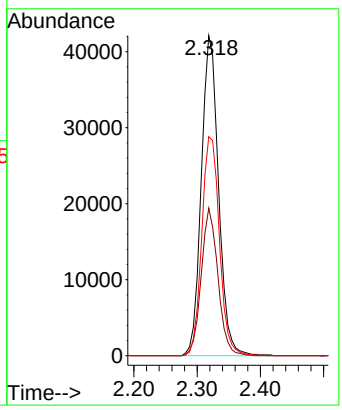


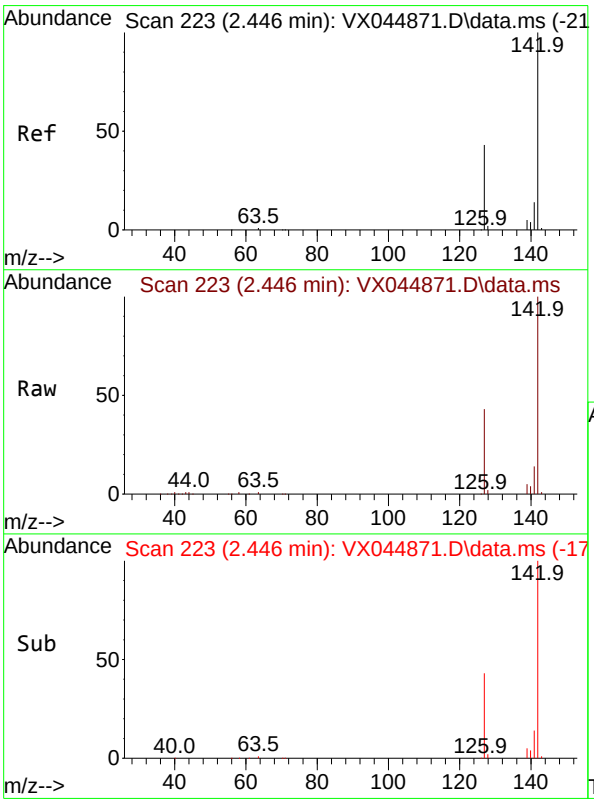
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.511 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 80068

Ion	Ratio	Lower	Upper
101	100		
85	44.6	35.7	53.5
151	70.0	56.0	84.0

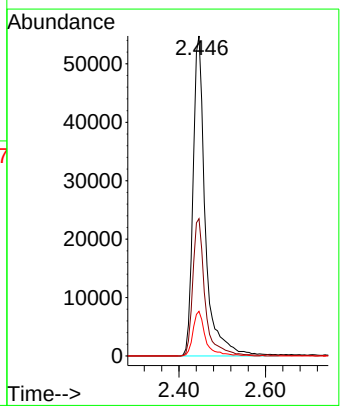


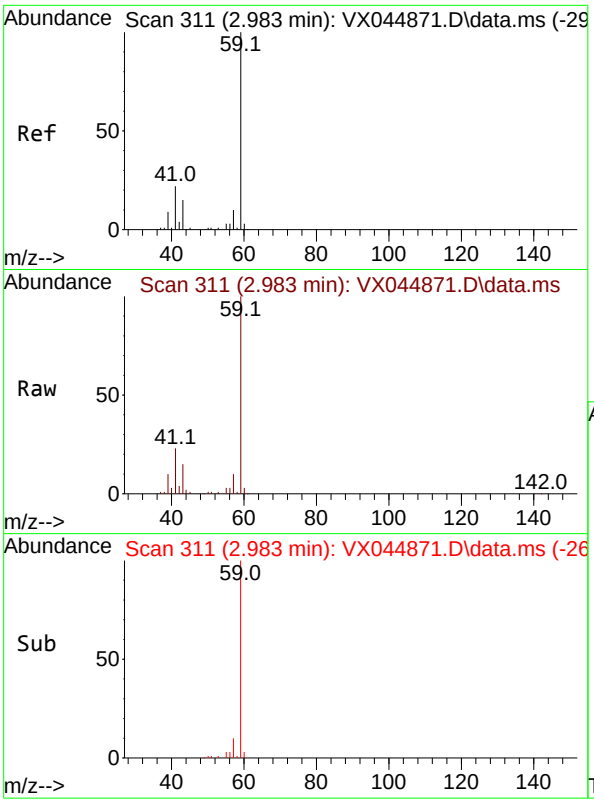


#10
Methyl Iodide
Concen: 51.712 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:142 Resp: 108383

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.3	51.5
141	14.3	11.4	17.2



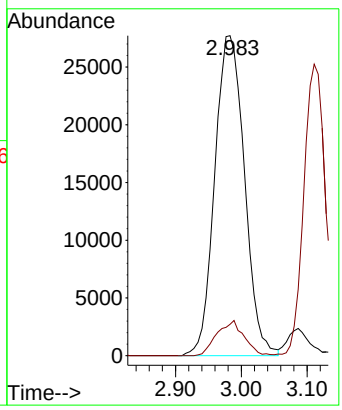


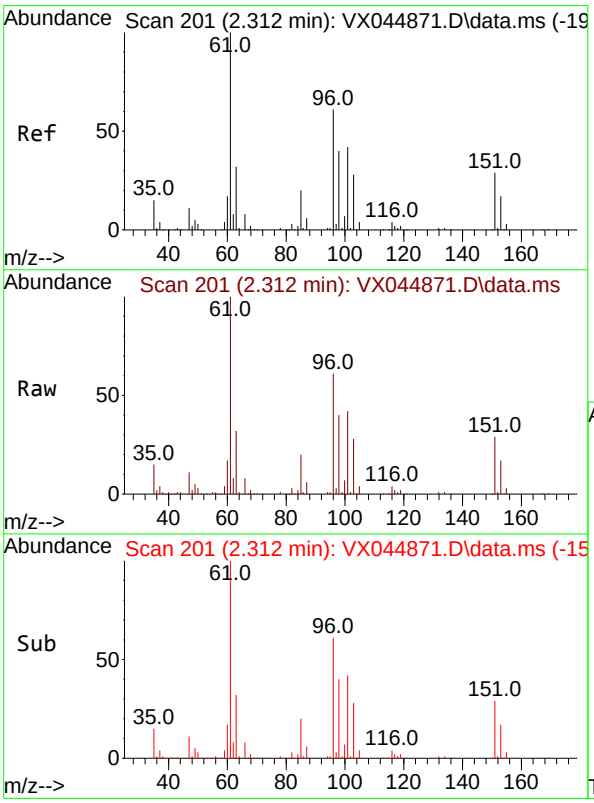
#11
Tert butyl alcohol
Concen: 251.049 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 87254

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1

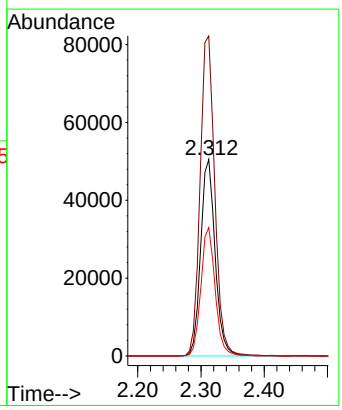


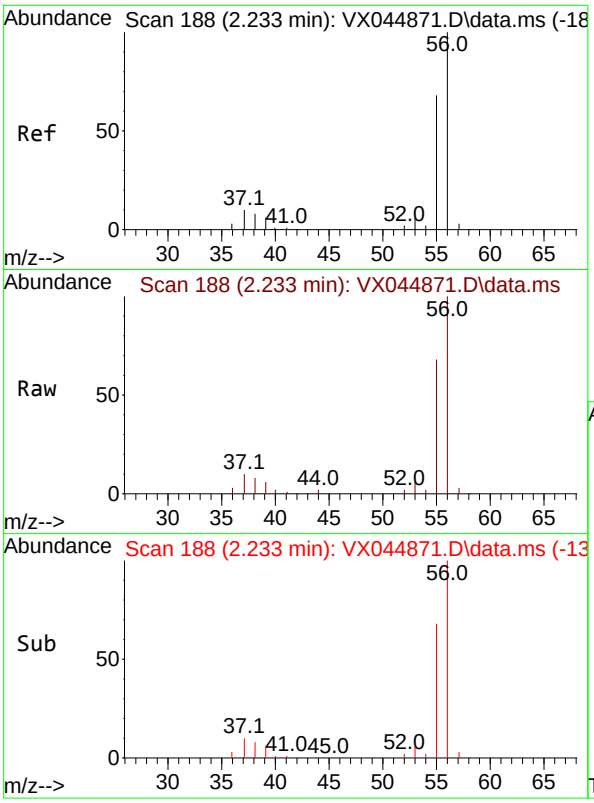


#12
1,1-Dichloroethene
Concen: 48.904 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 80672

Ion	Ratio	Lower	Upper
96	100		
61	162.8	130.2	195.4
98	65.3	52.2	78.4



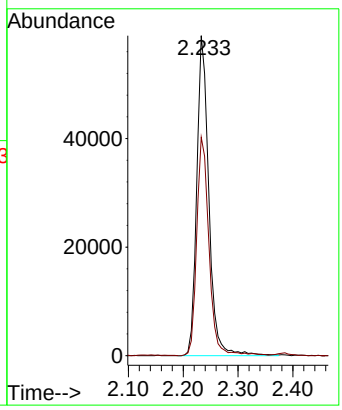


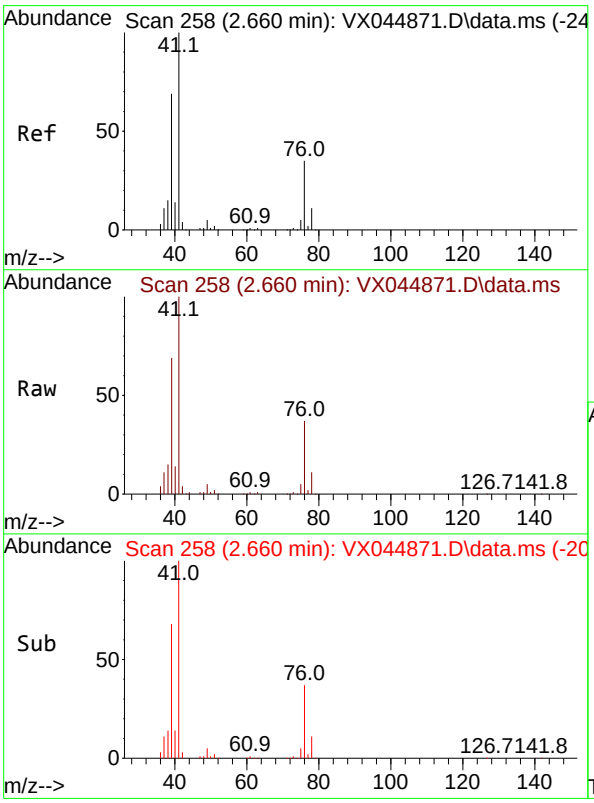
#13
Acrolein
Concen: 252.426 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 90518

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5

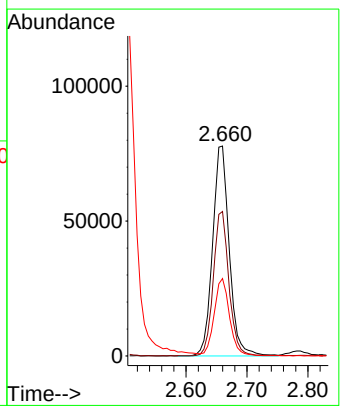


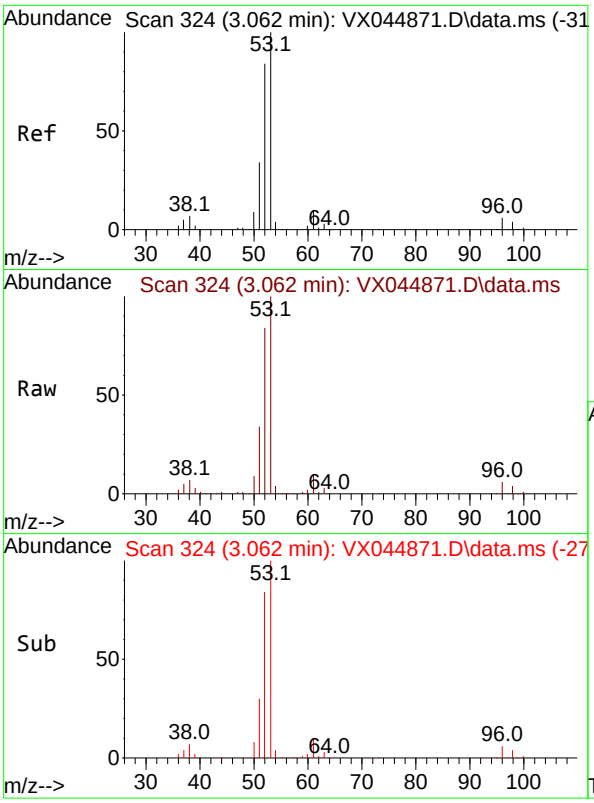


#14
Allyl chloride
Concen: 49.658 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 148044

Ion	Ratio	Lower	Upper
41	100		
39	64.3	51.4	77.2
76	33.7	27.0	40.4



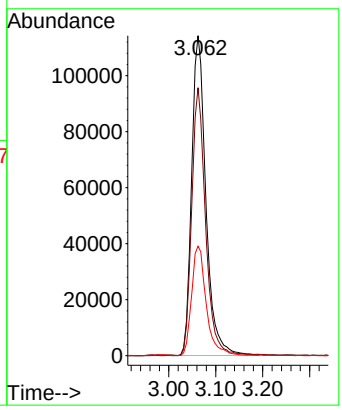


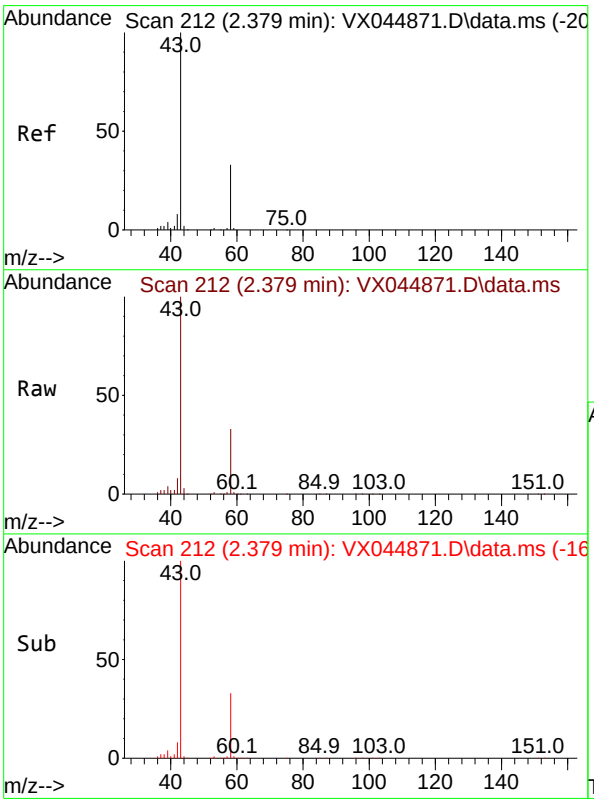
#15
Acrylonitrile
Concen: 261.074 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 242268

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	35.0	28.0	42.0

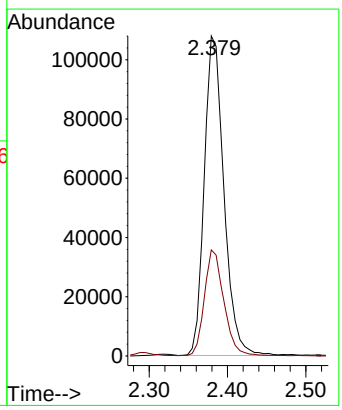


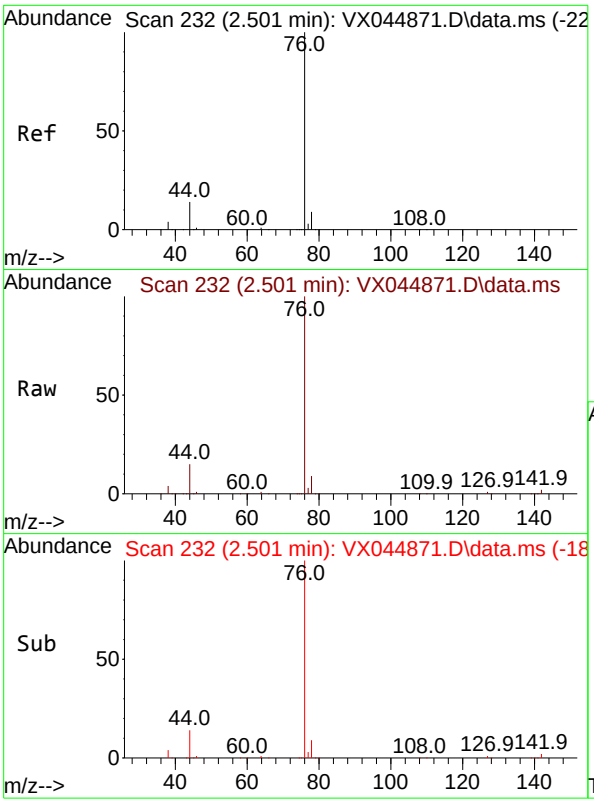


#16
Acetone
Concen: 249.274 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 187739

Ion	Ratio	Lower	Upper
43	100		
58	33.1	26.5	39.7



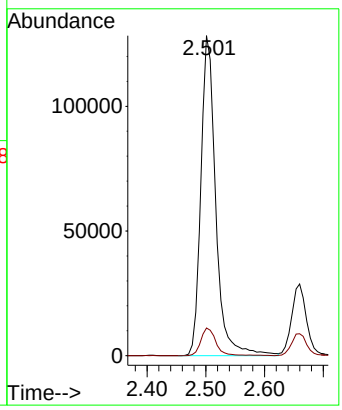


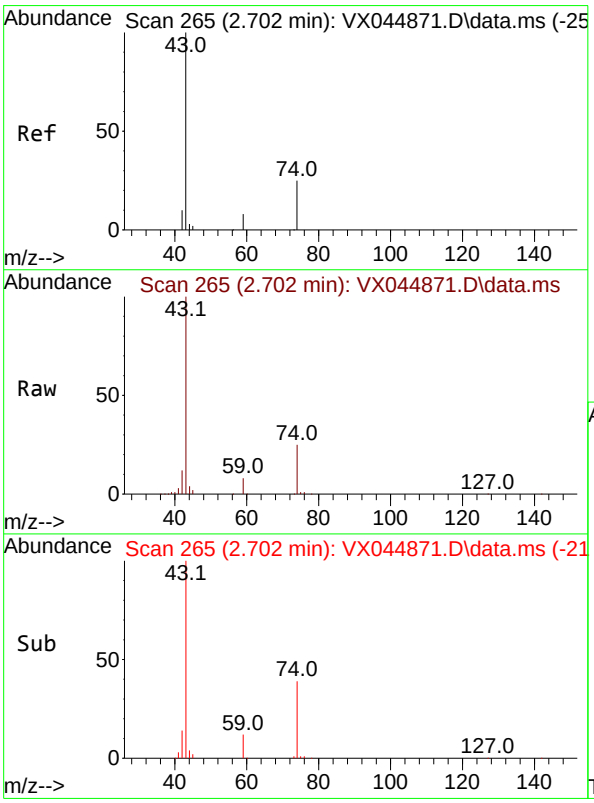
#17
Carbon Disulfide
Concen: 49.853 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 225511

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

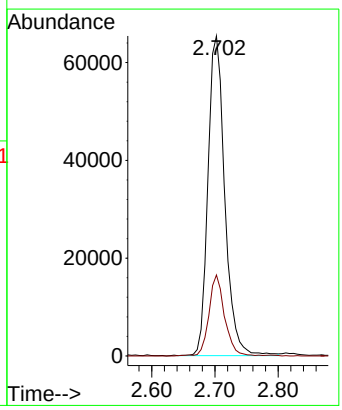


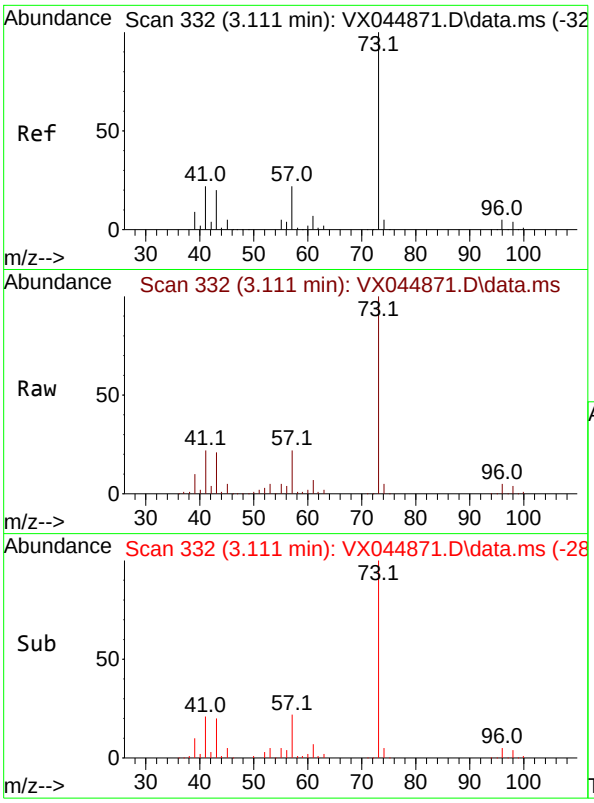


#18
Methyl Acetate
Concen: 50.928 ug/l
RT: 2.702 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 121039

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.9	28.3



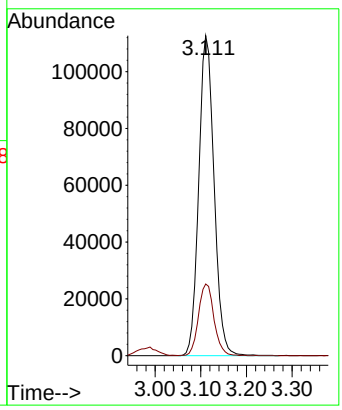


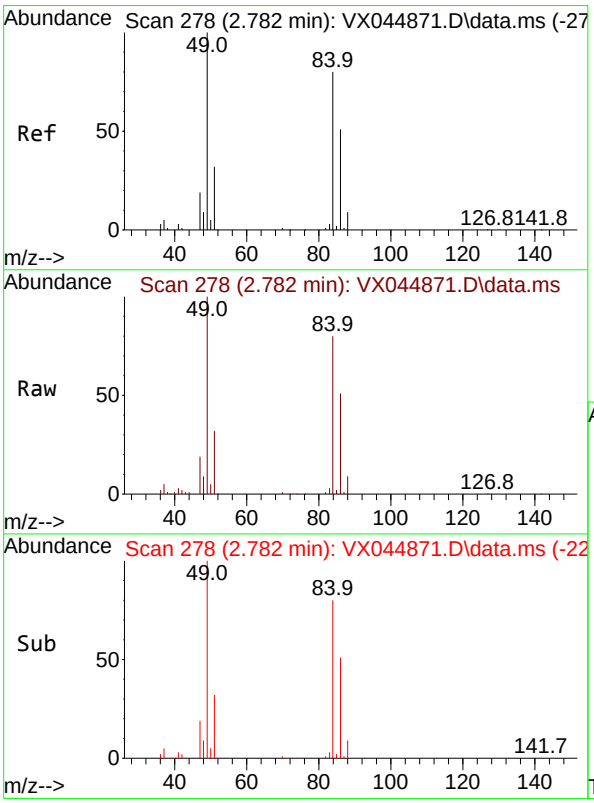
#19
Methyl tert-butyl Ether
Concen: 49.890 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 261852

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.9	26.9

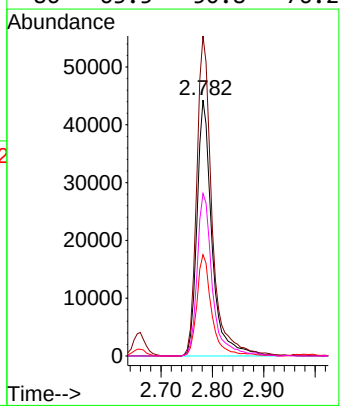


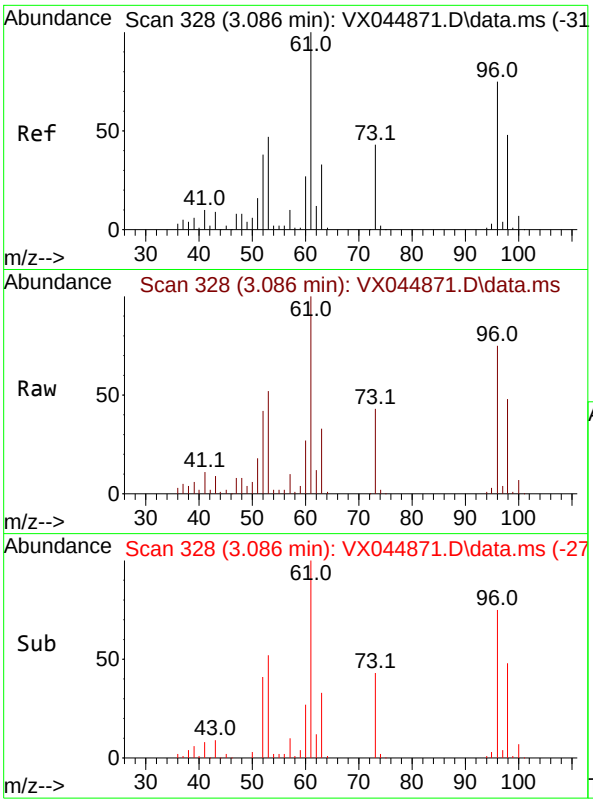


#20
Methylene Chloride
Concen: 48.808 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 84 Resp: 90038

Ion	Ratio	Lower	Upper
84	100		
49	125.1	100.1	150.1
51	39.6	31.7	47.5
86	63.5	50.8	76.2



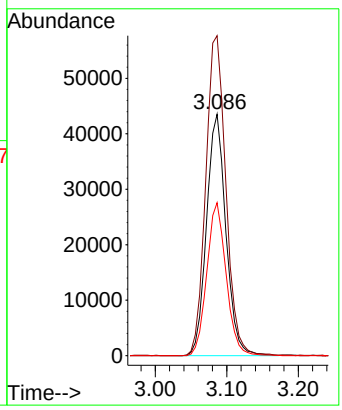


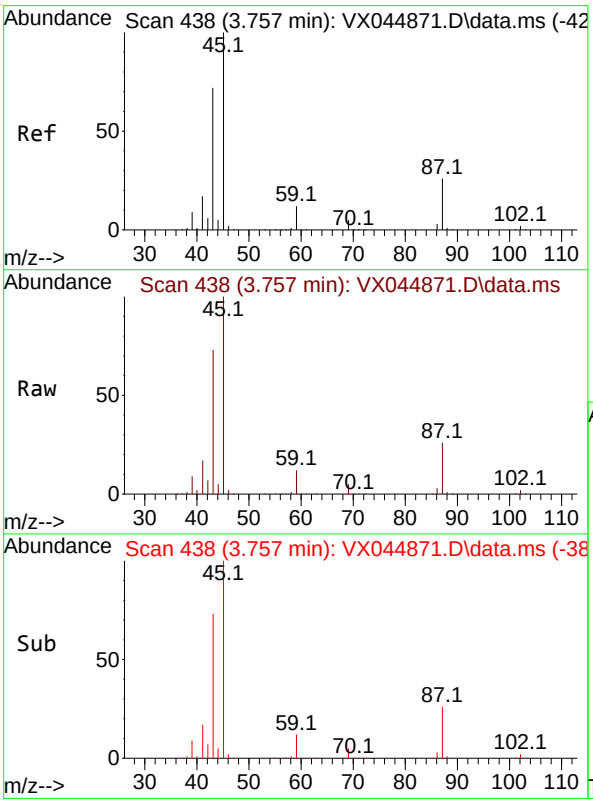
#21
trans-1,2-Dichloroethene
Concen: 50.475 ug/l
RT: 3.086 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 81950

Ion	Ratio	Lower	Upper
96	100		
61	132.5	106.0	159.0
98	63.3	50.6	76.0

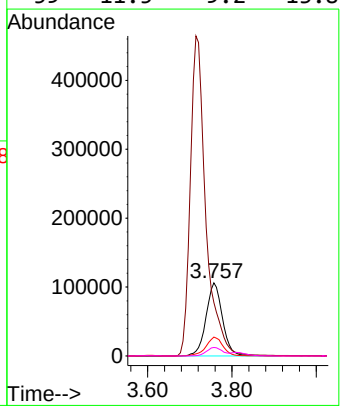


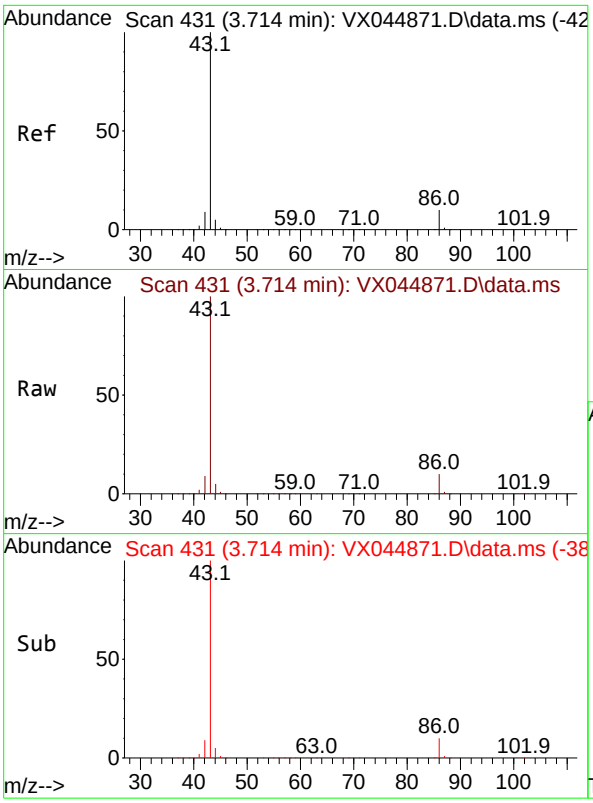


#22
Diisopropyl ether
Concen: 50.946 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 45 Resp: 287347

Ion	Ratio	Lower	Upper
45	100		
43	72.5	58.0	87.0
87	25.9	20.7	31.1
59	11.5	9.2	13.8



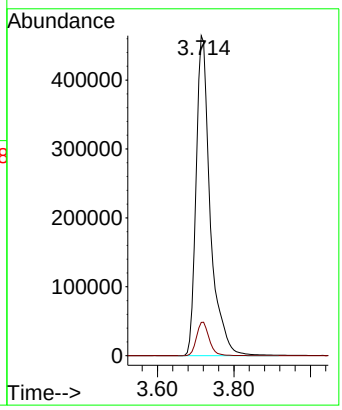


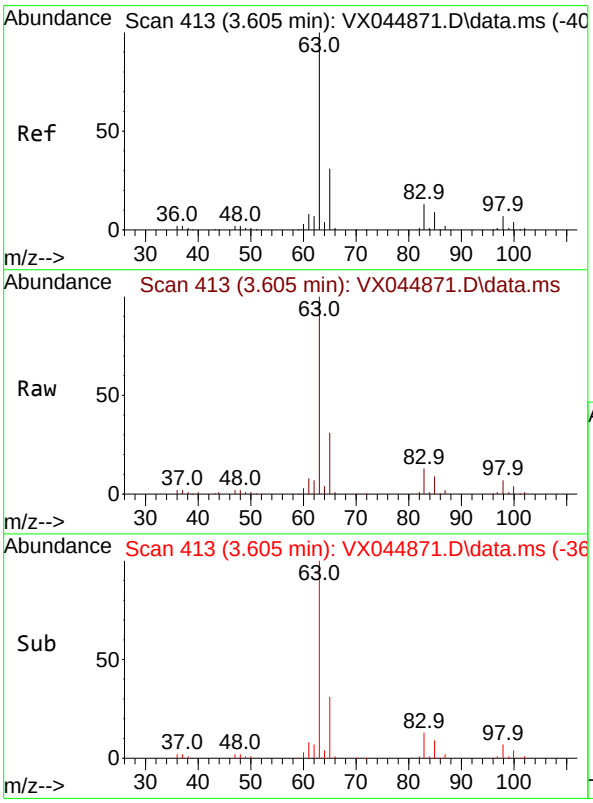
#23
Vinyl Acetate
Concen: 258.830 ug/l
RT: 3.714 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1190152

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5

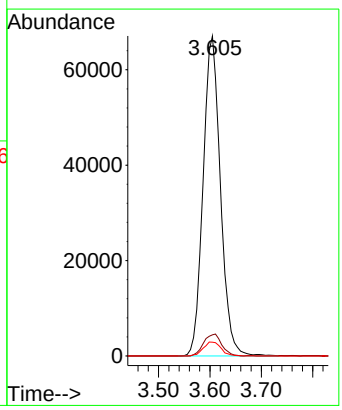


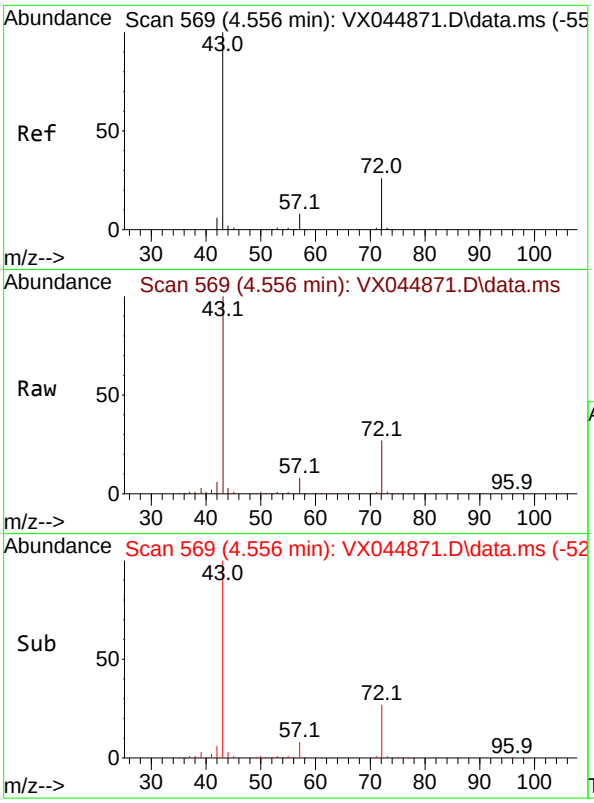


#24
1,1-Dichloroethane
Concen: 49.749 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 157003

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	4.3	2.1	6.5



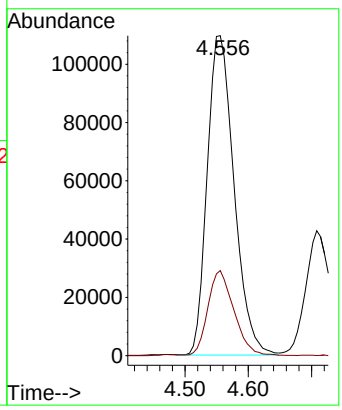


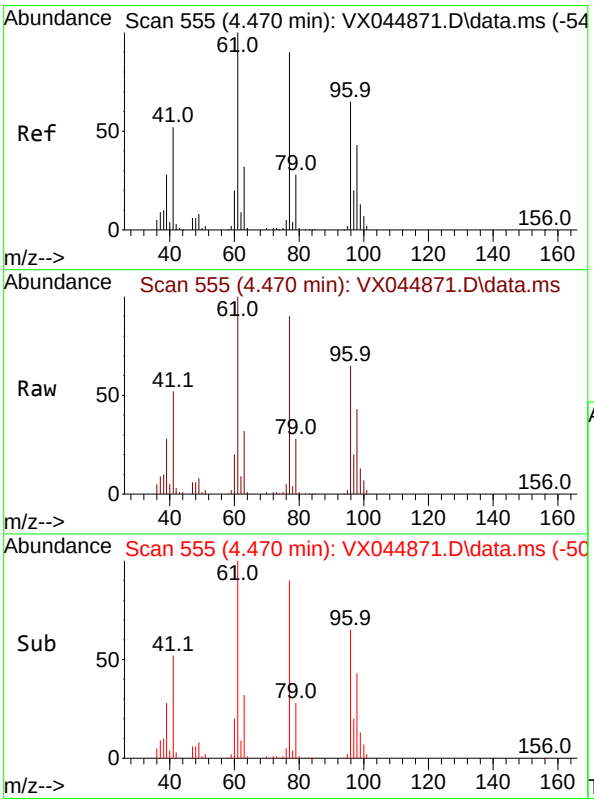
#25
2-Butanone
Concen: 264.528 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 323510

Ion	Ratio	Lower	Upper
43	100		
72	26.5	21.2	31.8

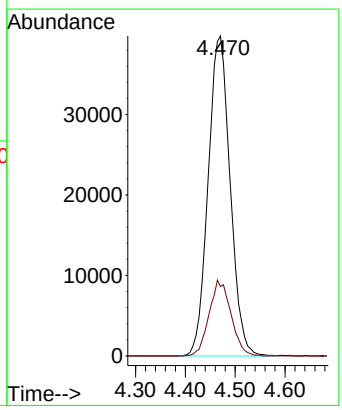


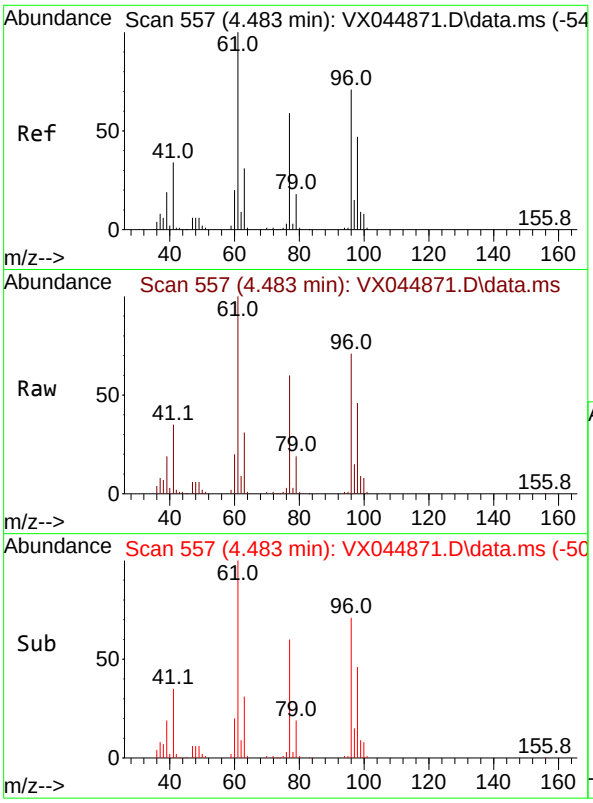


#26
2,2-Dichloropropane
Concen: 48.707 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 77 Resp: 121901

Ion	Ratio	Lower	Upper
77	100		
97	23.5	11.8	35.3



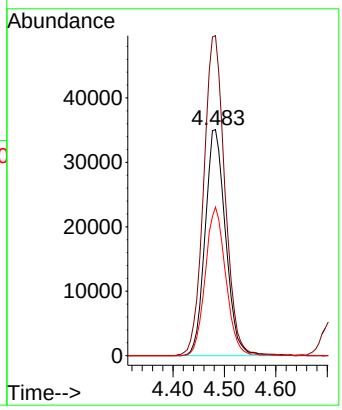


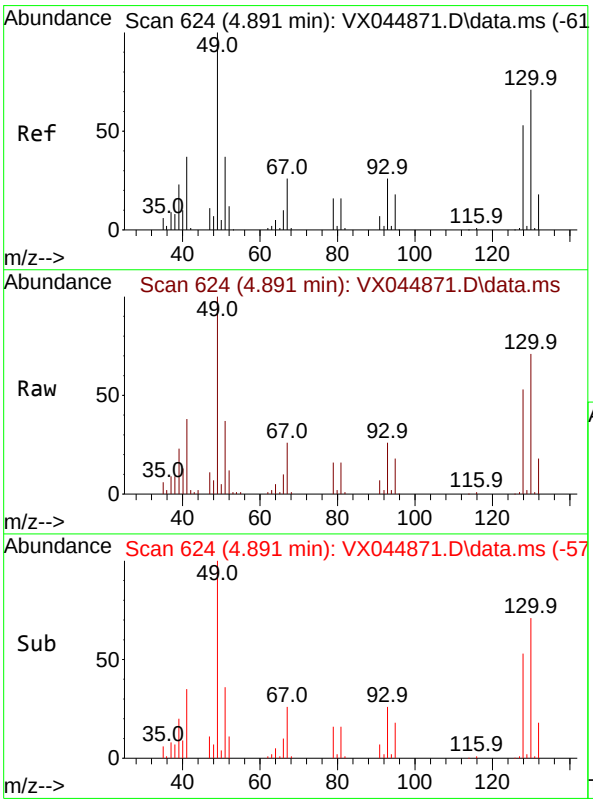
#27
cis-1,2-Dichloroethene
Concen: 49.721 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 96965

Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	294.0
98	65.6	0.0	131.2

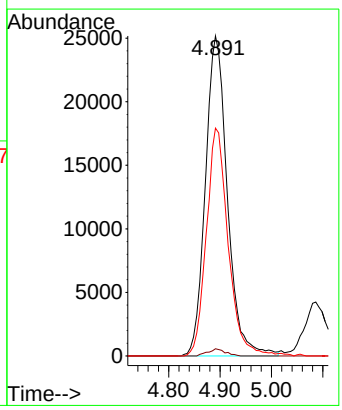


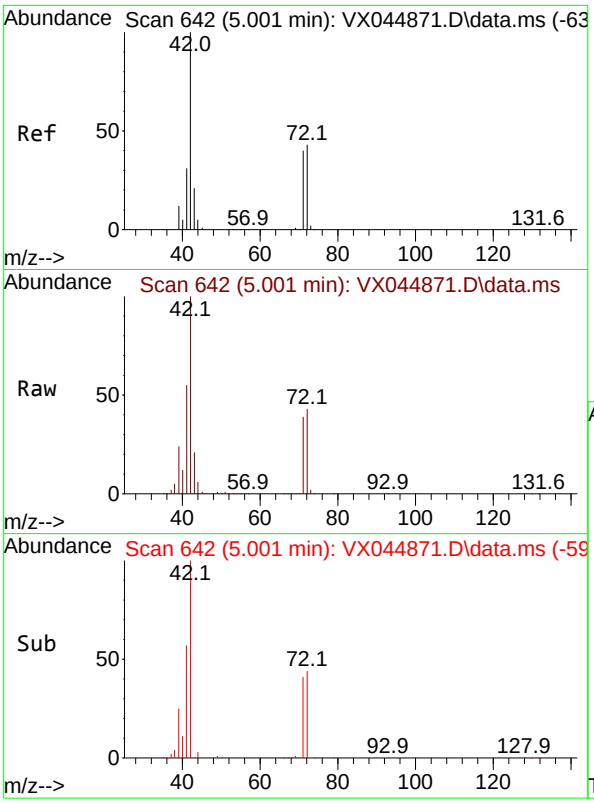


#28
Bromochloromethane
Concen: 49.258 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 49 Resp: 74707

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	70.9	56.7	85.1



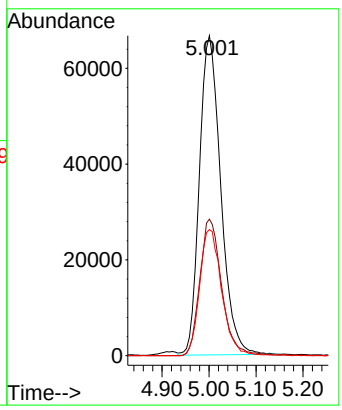


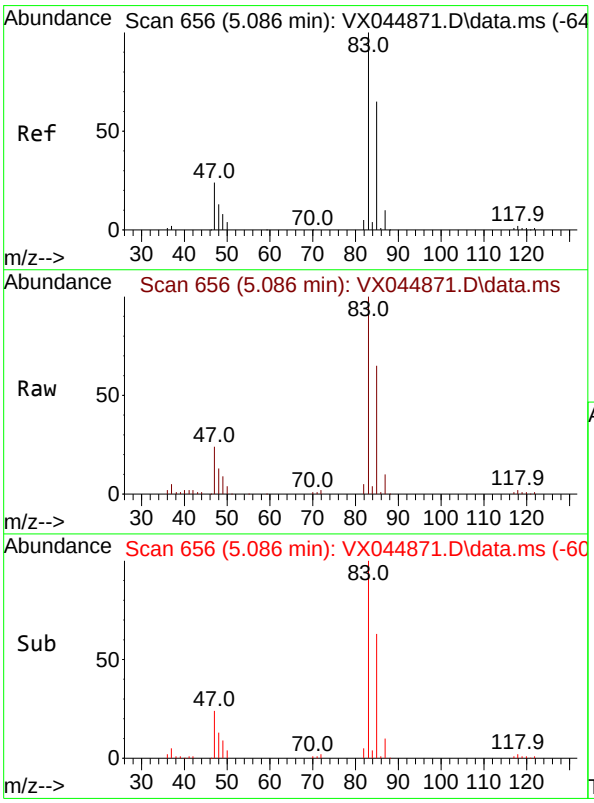
#29
Tetrahydrofuran
Concen: 259.105 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 210414

Ion	Ratio	Lower	Upper
42	100		
72	43.7	35.0	52.4
71	40.7	32.6	48.8

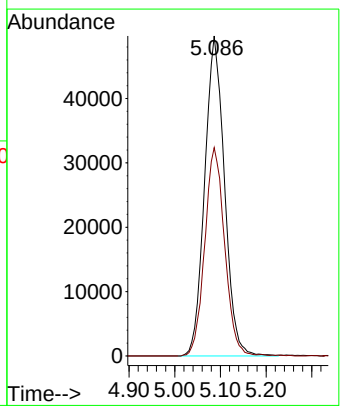


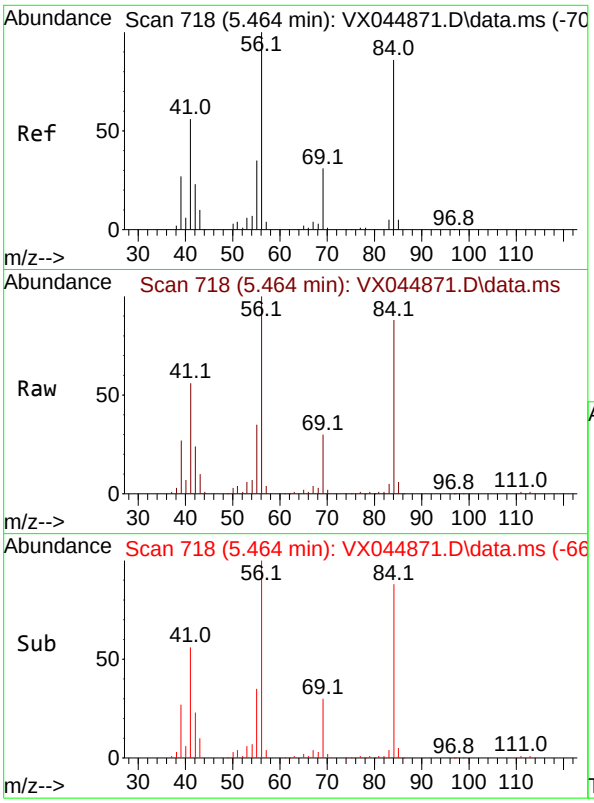


#30
Chloroform
Concen: 48.874 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 149581

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1



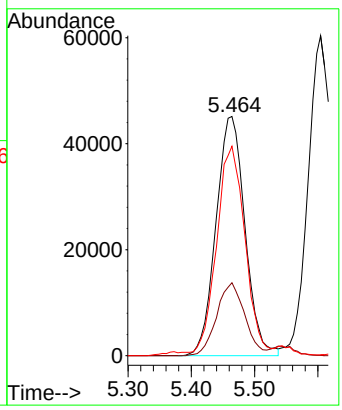


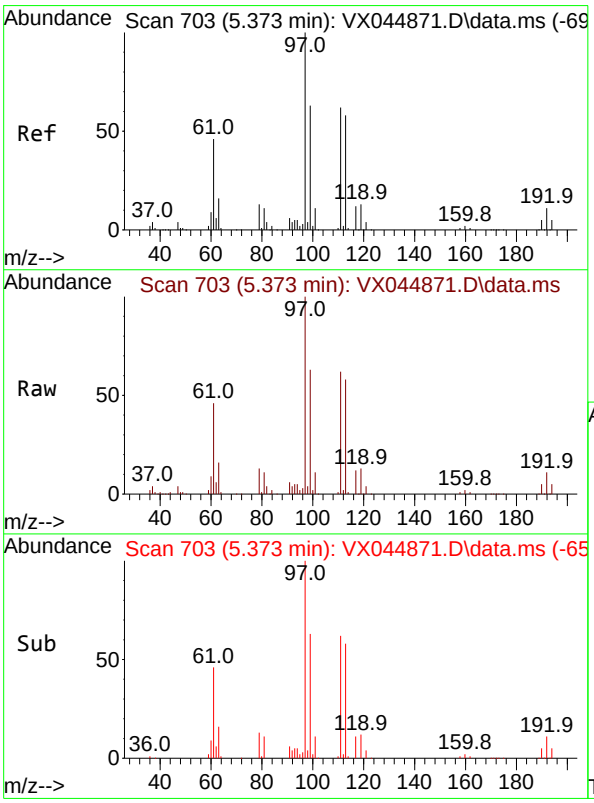
#31
Cyclohexane
Concen: 49.322 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 143500

Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.4	36.6
84	86.3	69.0	103.6

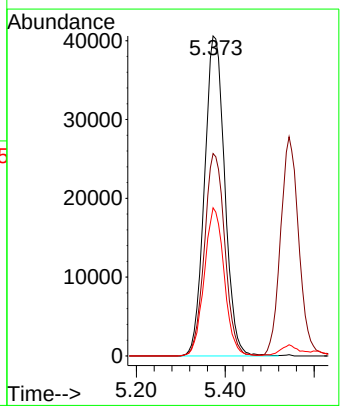


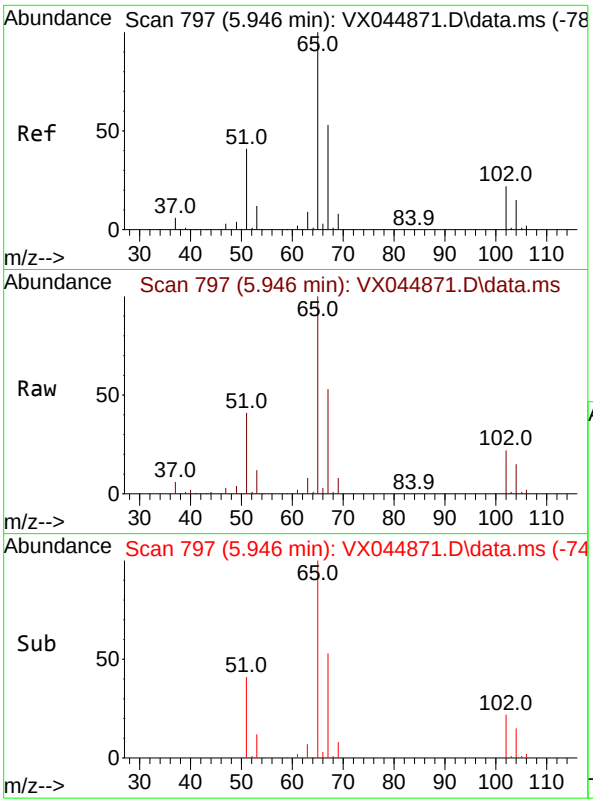


#32
1,1,1-Trichloroethane
Concen: 49.523 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 97 Resp: 128561

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.8	36.6	55.0



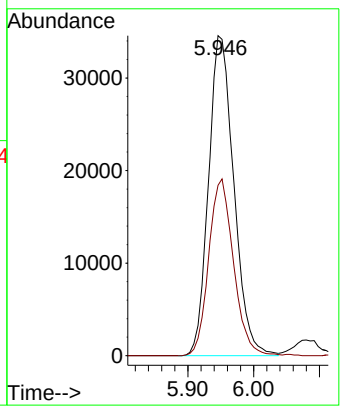


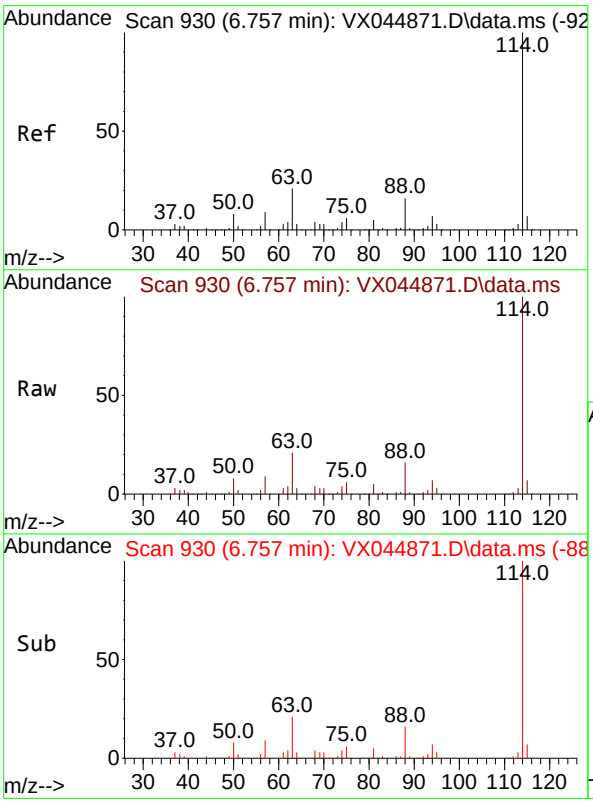
#33
1,2-Dichloroethane-d4
Concen: 49.424 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 92593

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	108.2

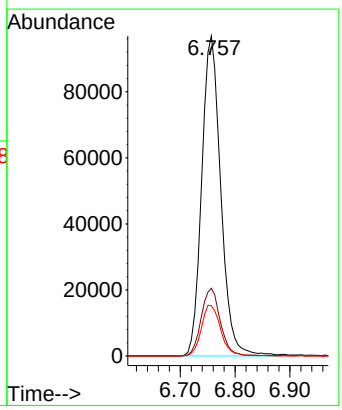


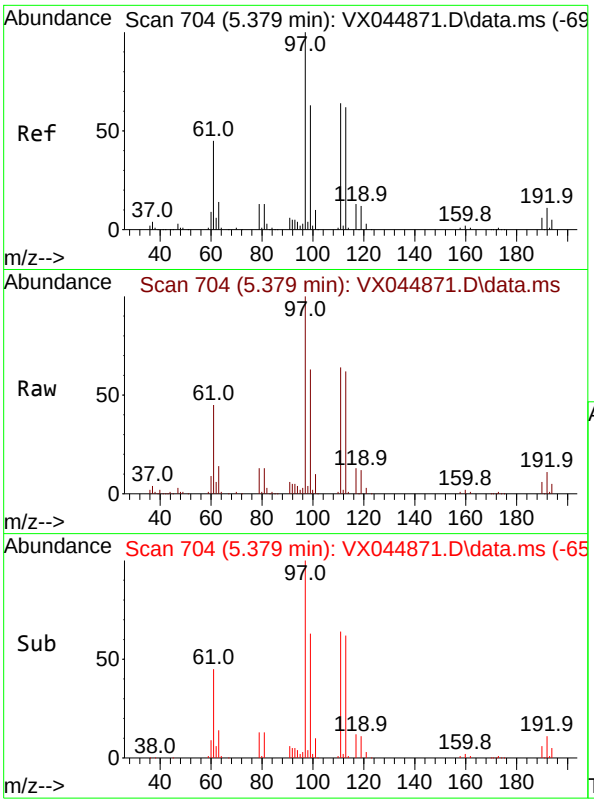


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:114 Resp: 233736

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	15.7	0.0	31.4



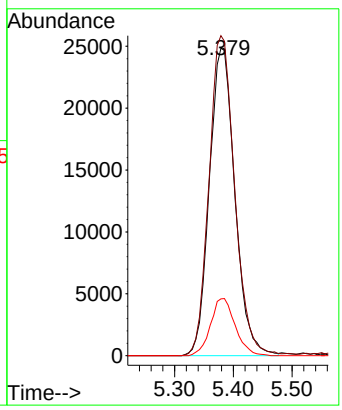


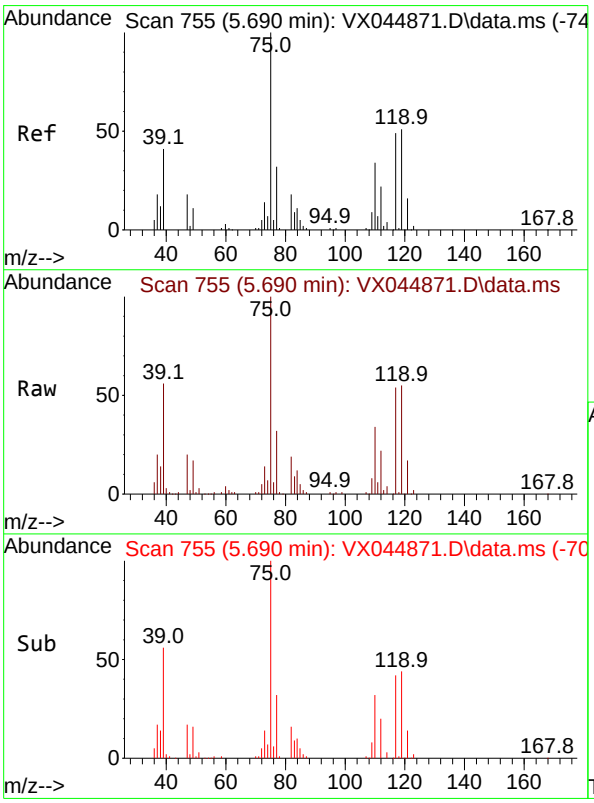
#35
Dibromofluoromethane
Concen: 49.291 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 74906

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	18.0	14.4	21.6

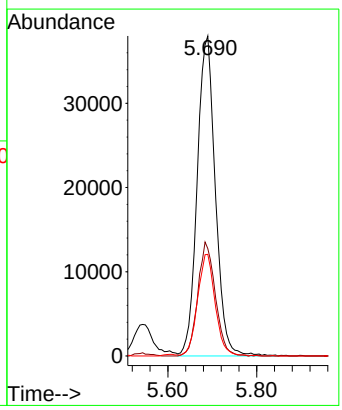


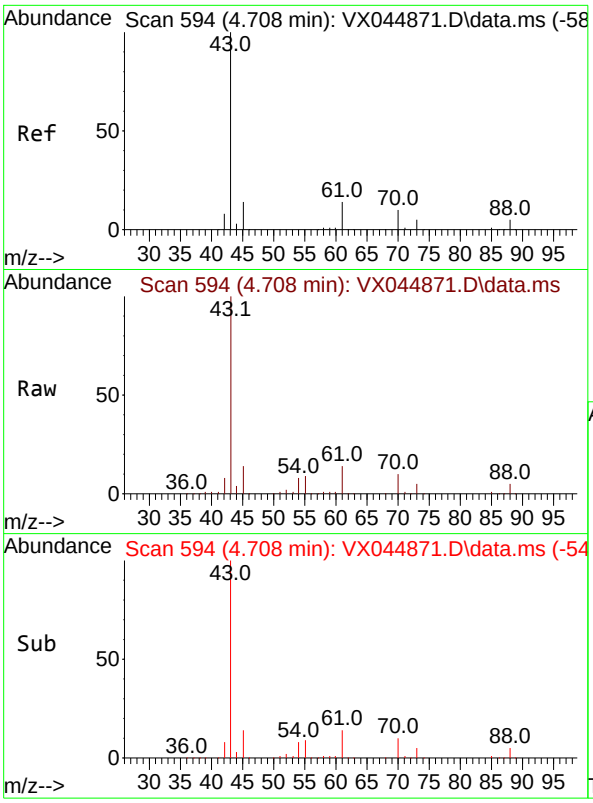


#36
1,1-Dichloropropene
Concen: 49.353 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 108206

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.8	24.6	37.0



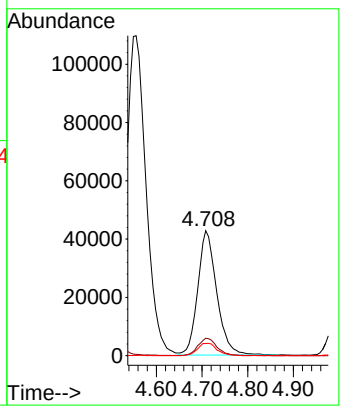


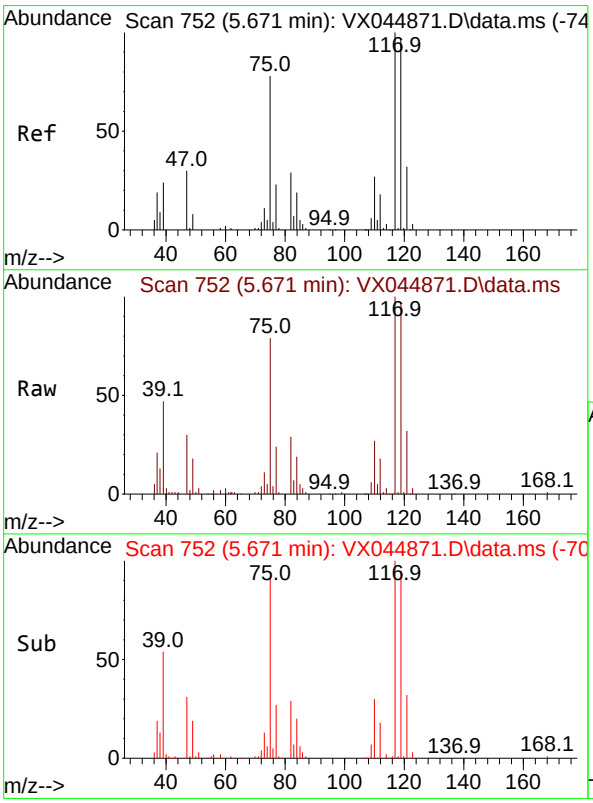
#37
Ethyl Acetate
Concen: 50.535 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 123238

Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.4
70	10.2	8.2	12.2

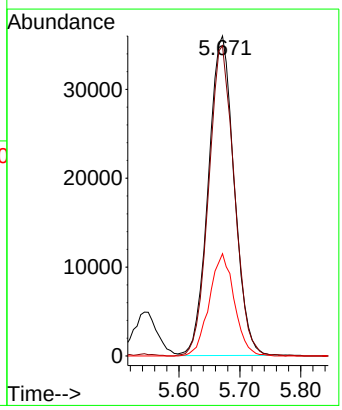


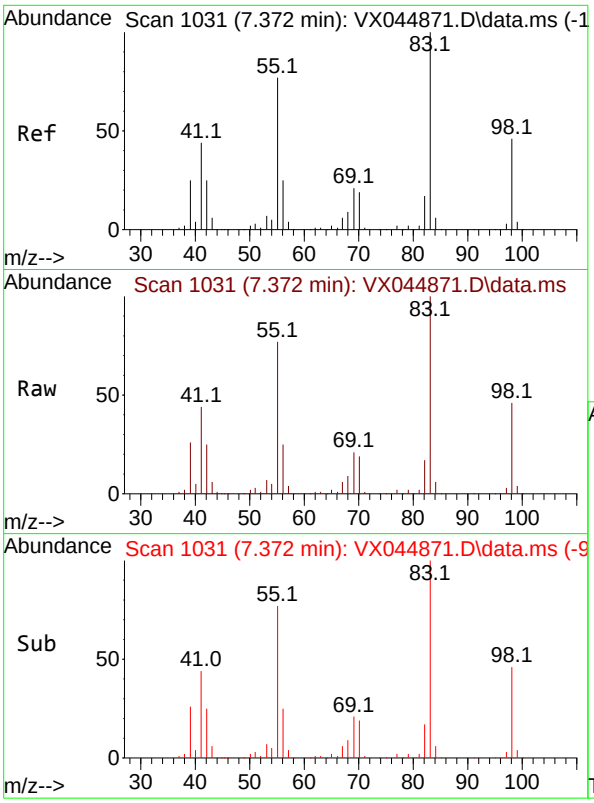


#38
Carbon Tetrachloride
Concen: 49.277 ug/l
RT: 5.671 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 105873

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.5	116.3
121	32.0	25.6	38.4



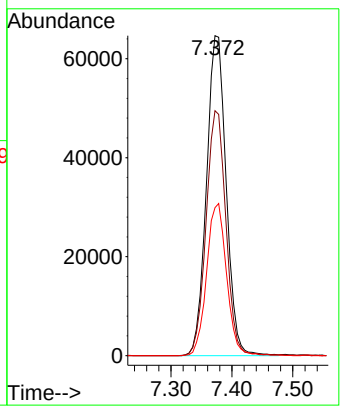


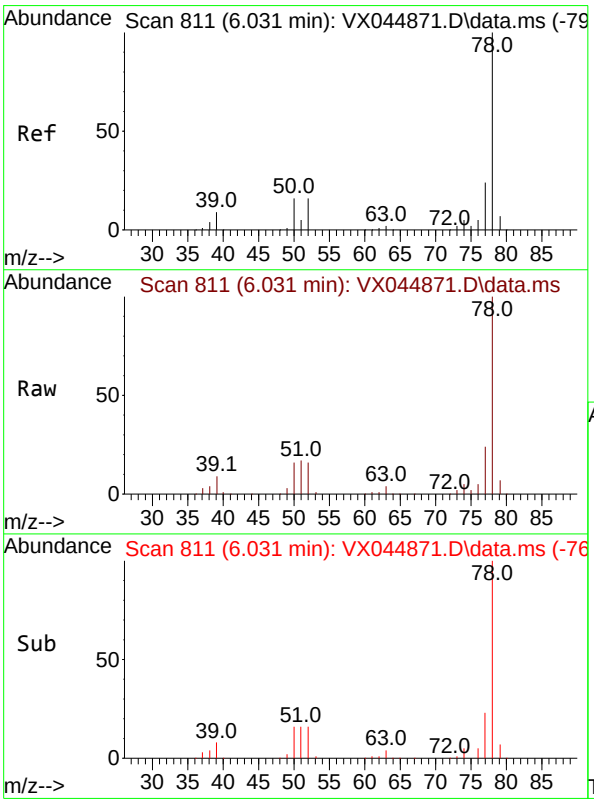
#39
Methylcyclohexane
Concen: 51.274 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 145338

Ion	Ratio	Lower	Upper
83	100		
55	76.6	61.3	91.9
98	46.3	37.0	55.6

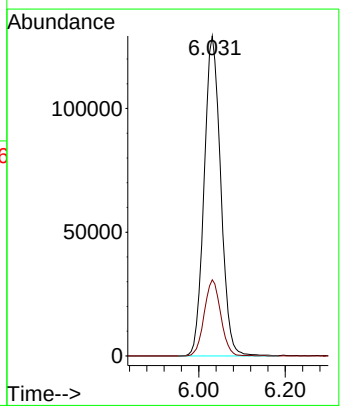


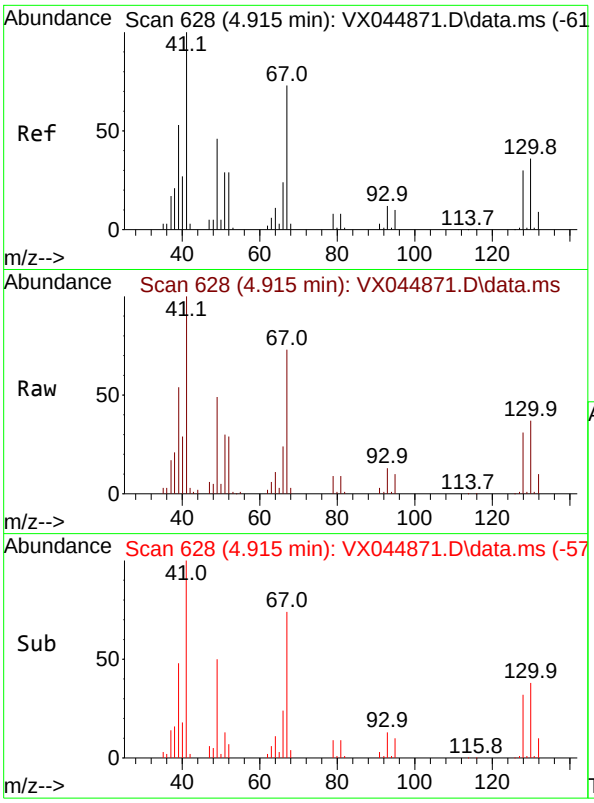


#40
Benzene
Concen: 50.182 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 78 Resp: 343557

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6



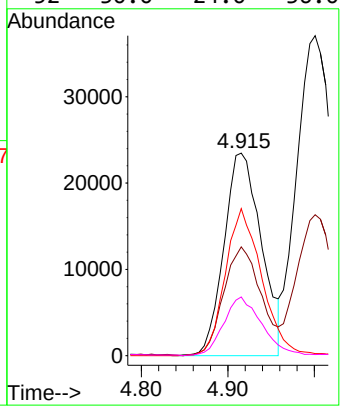


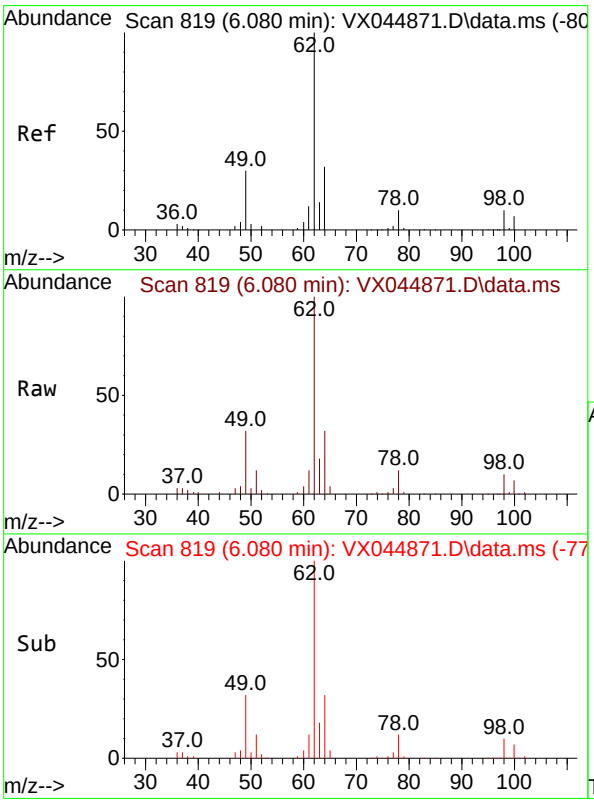
#41
Methacrylonitrile
Concen: 54.065 ug/l
RT: 4.915 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 70572

Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.1	64.7
67	71.3	57.0	85.6
52	30.0	24.0	36.0

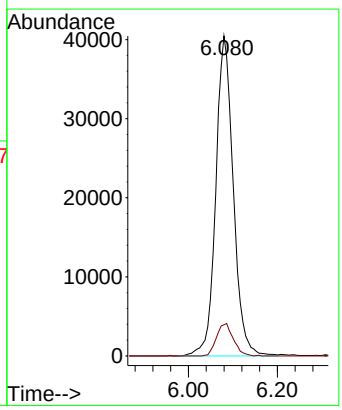


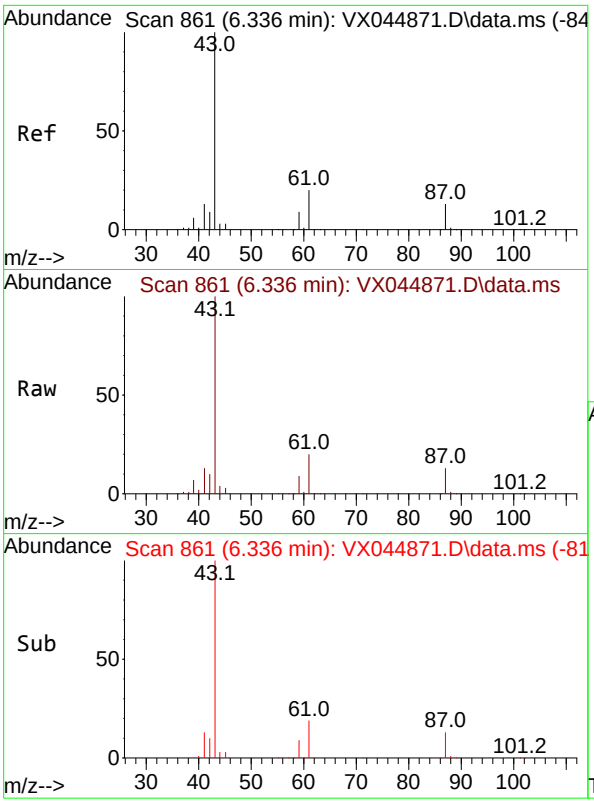


#42
1,2-Dichloroethane
Concen: 50.573 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 110347

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4



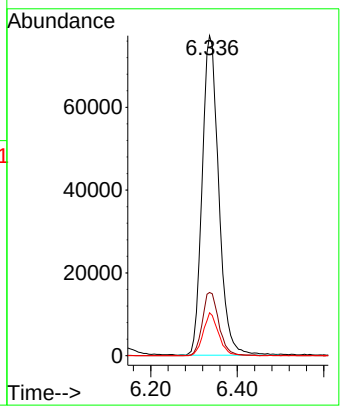


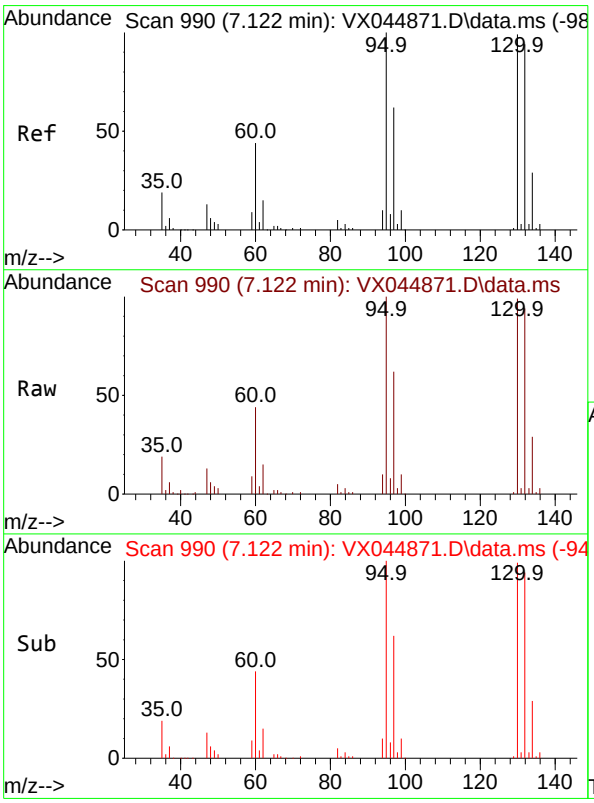
#43
Isopropyl Acetate
Concen: 51.981 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 204703

Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.8	23.8
87	12.5	10.0	15.0

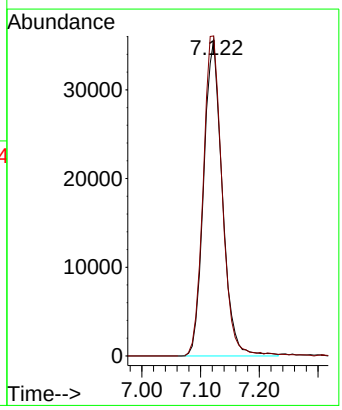


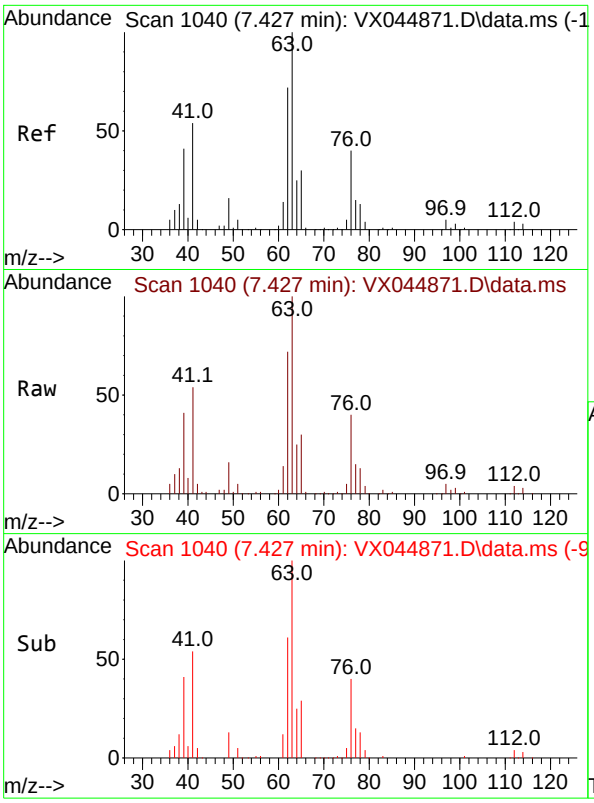


#44
Trichloroethene
Concen: 50.020 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:130 Resp: 78274

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	202.4



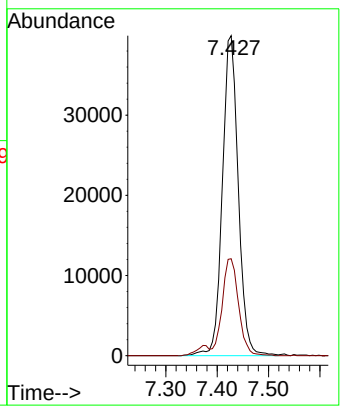


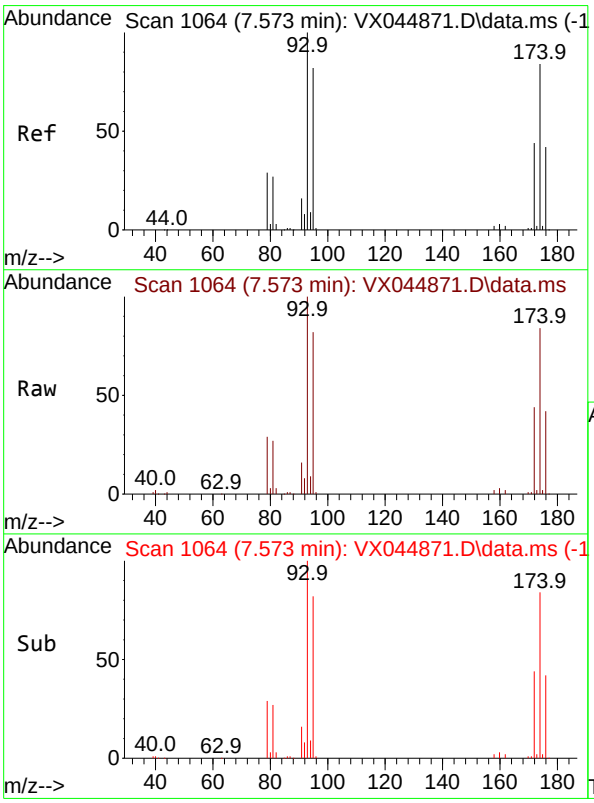
#45
1,2-Dichloropropane
Concen: 50.335 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 85733

Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.2	36.4

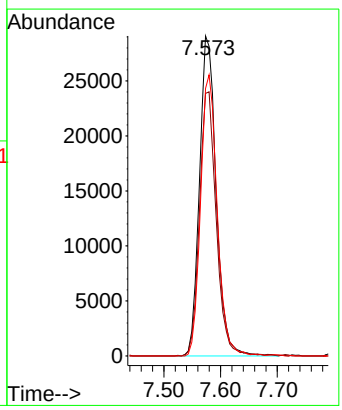


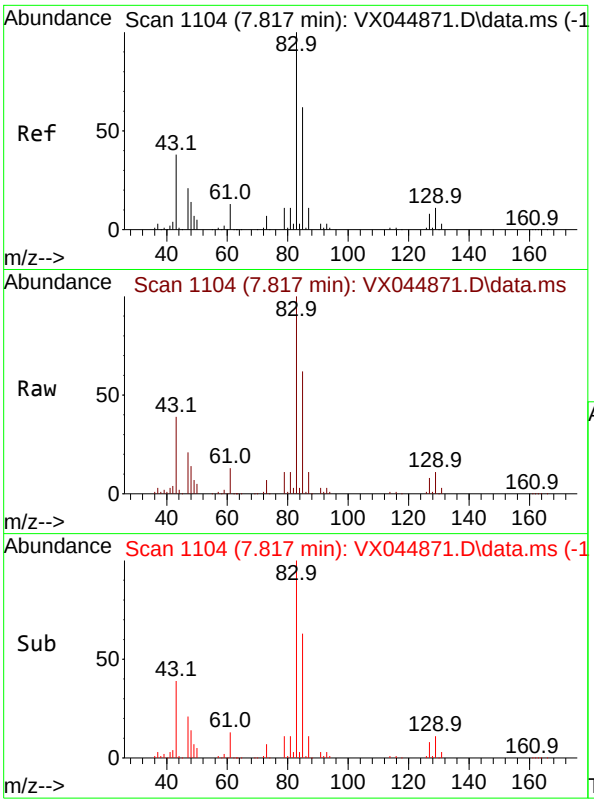


#46
Dibromomethane
Concen: 50.479 ug/l
RT: 7.573 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 93 Resp: 59625

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.4
174	87.4	69.9	104.9



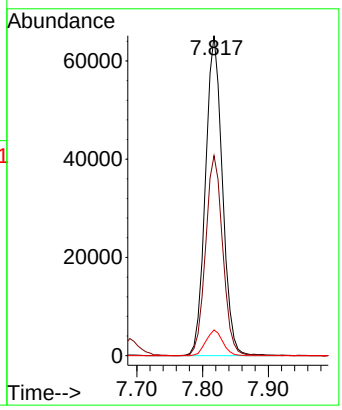


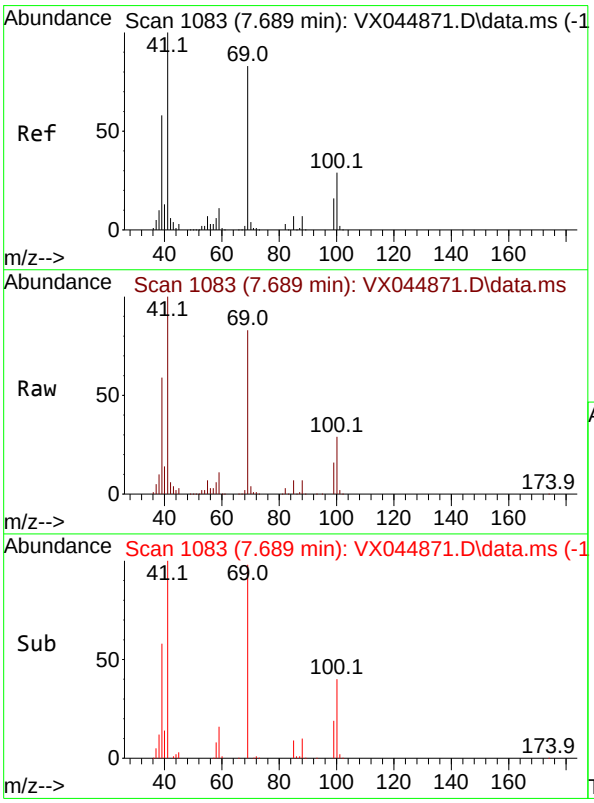
#47
Bromodichloromethane
Concen: 51.108 ug/l
RT: 7.817 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 116892

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0
127	8.0	6.4	9.6

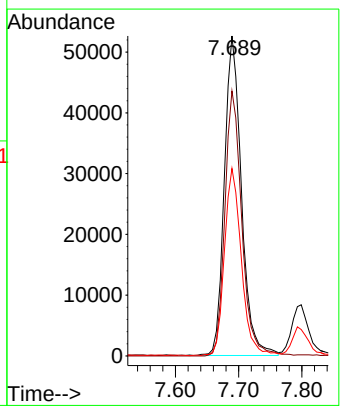


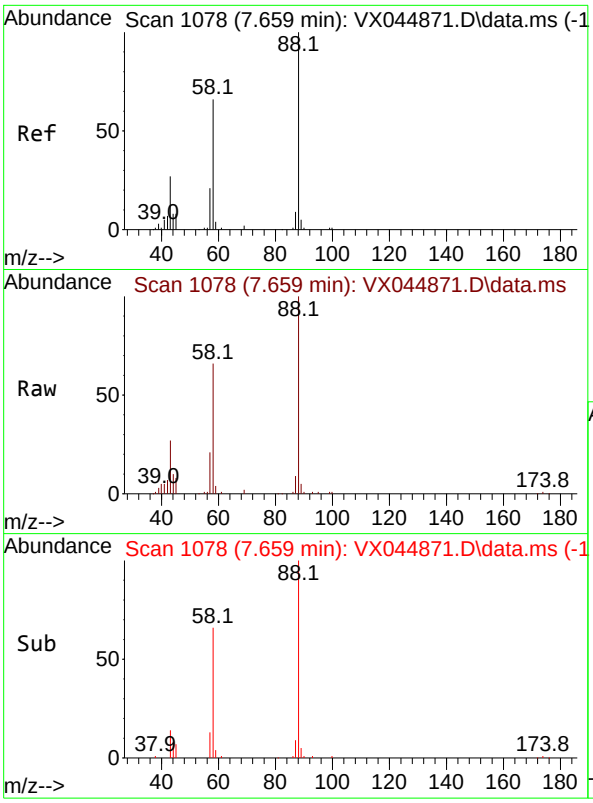


#48
Methyl methacrylate
Concen: 53.057 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 98519

Ion	Ratio	Lower	Upper
41	100		
69	82.3	65.8	98.8
39	58.0	46.4	69.6



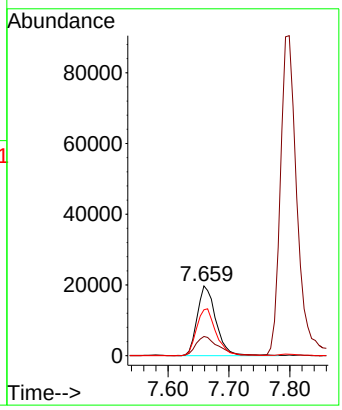


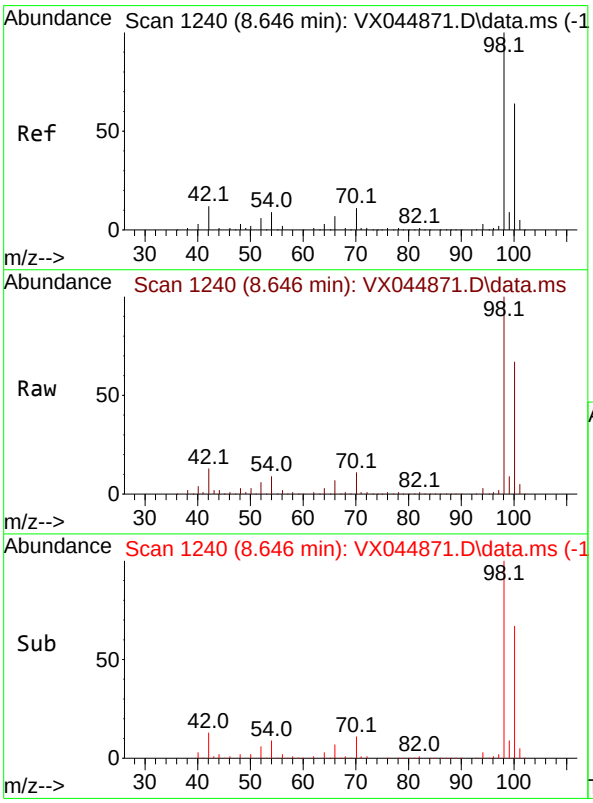
#49
1,4-Dioxane
Concen: 1056.618 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 42094

Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.6	39.8
58	69.9	55.9	83.9

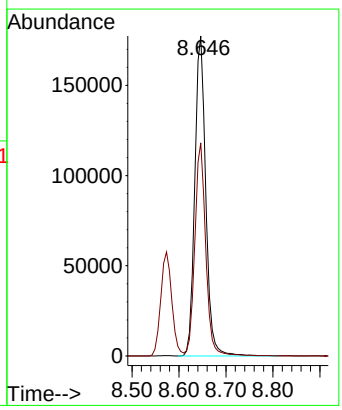


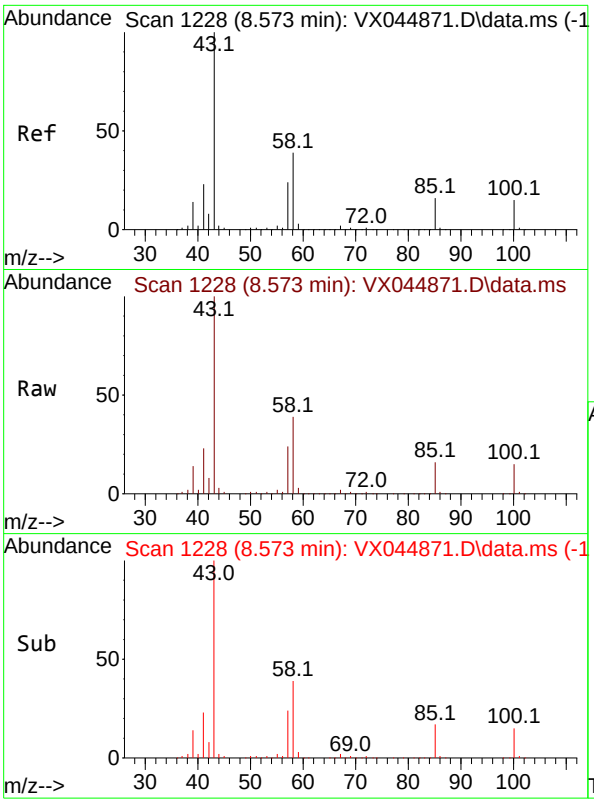


#50
Toluene-d8
Concen: 50.392 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 98 Resp: 289575

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1



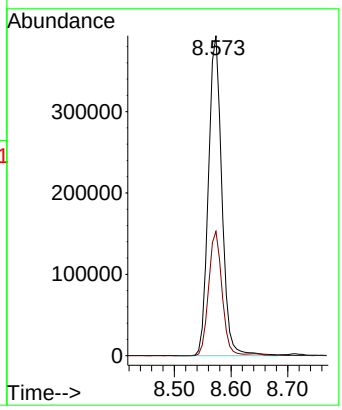


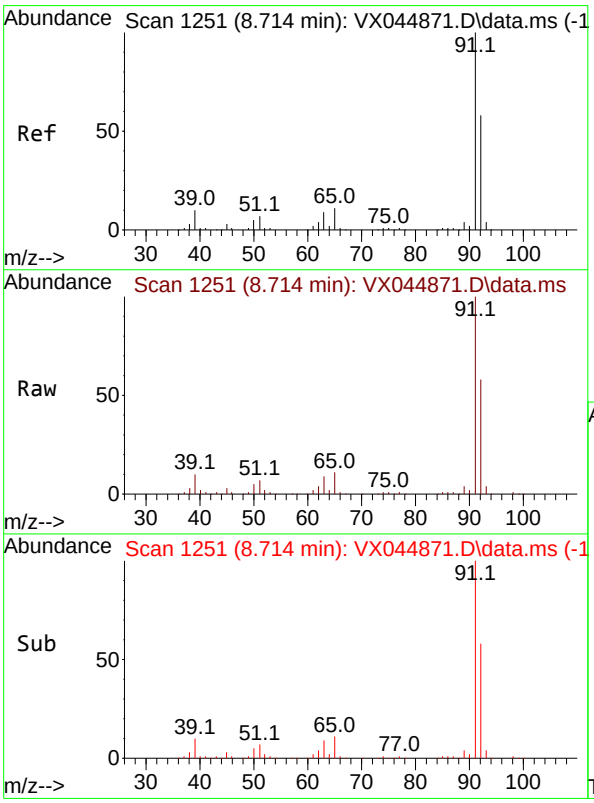
#51
4-Methyl-2-Pentanone
Concen: 270.364 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 647283

Ion	Ratio	Lower	Upper
43	100		
58	38.5	30.8	46.2

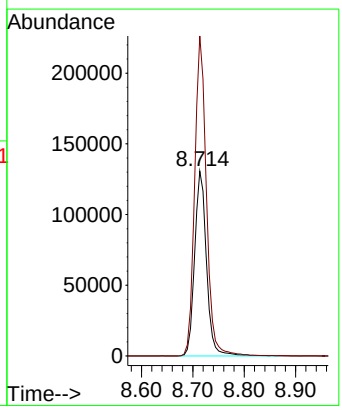


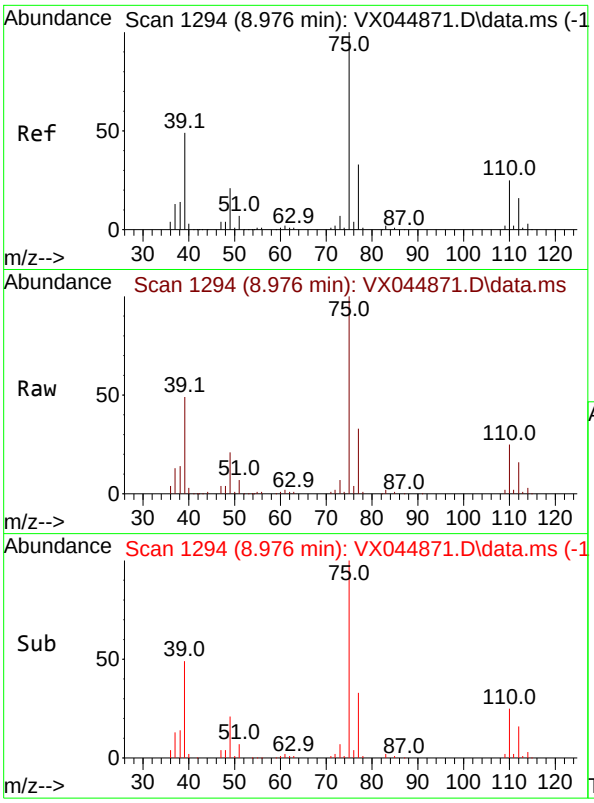


#52
Toluene
Concen: 51.507 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 92 Resp: 210007

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.4	206.2



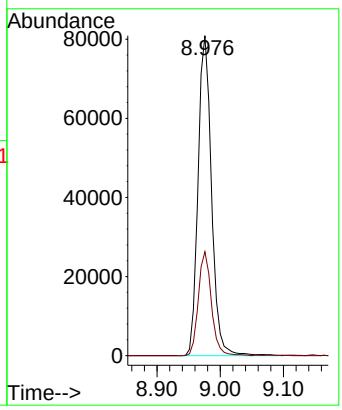


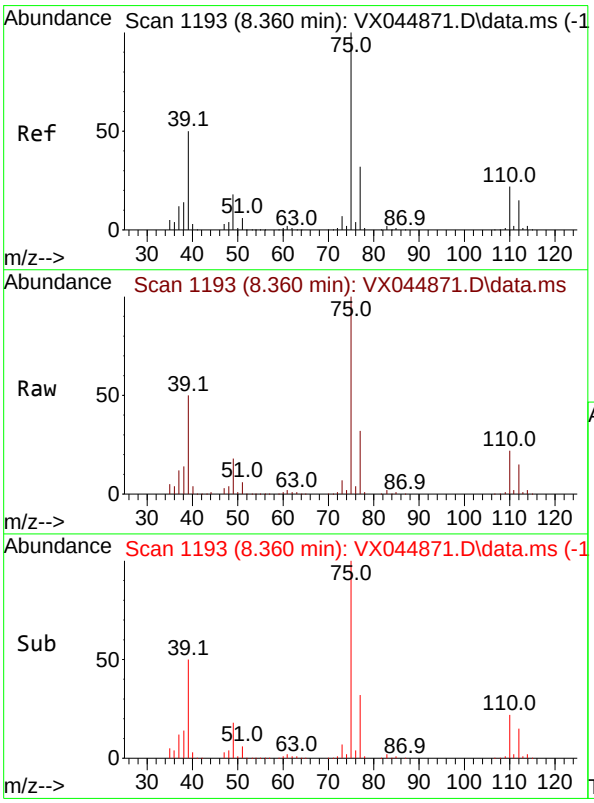
#53
t-1,3-Dichloropropene
Concen: 51.902 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 120125

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.0	39.0

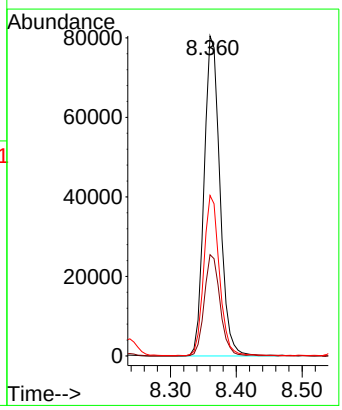


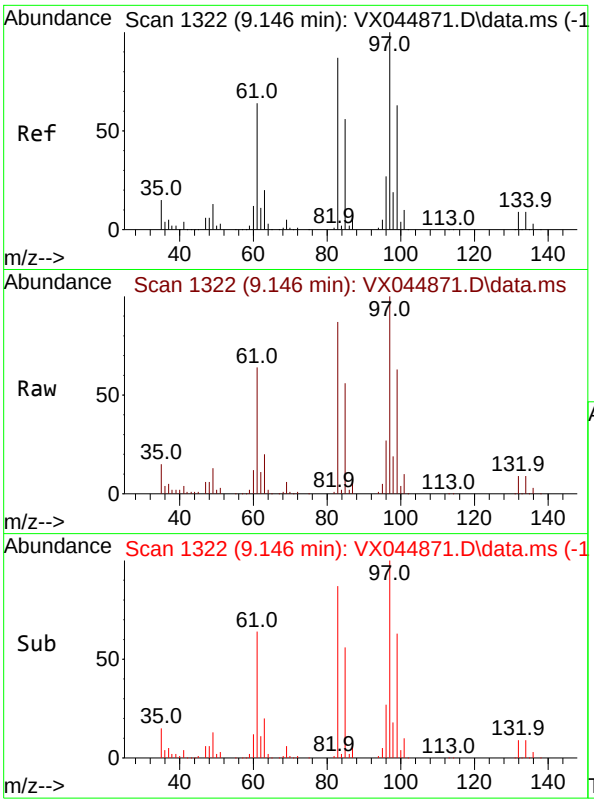


#54
cis-1,3-Dichloropropene
Concen: 52.223 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 134763

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.3	37.9
39	50.0	40.0	60.0



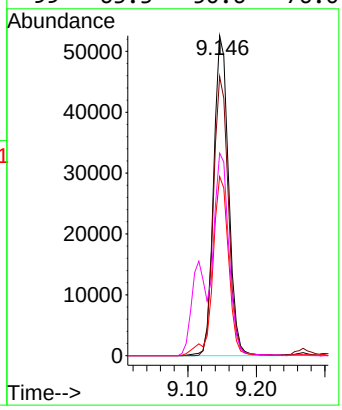


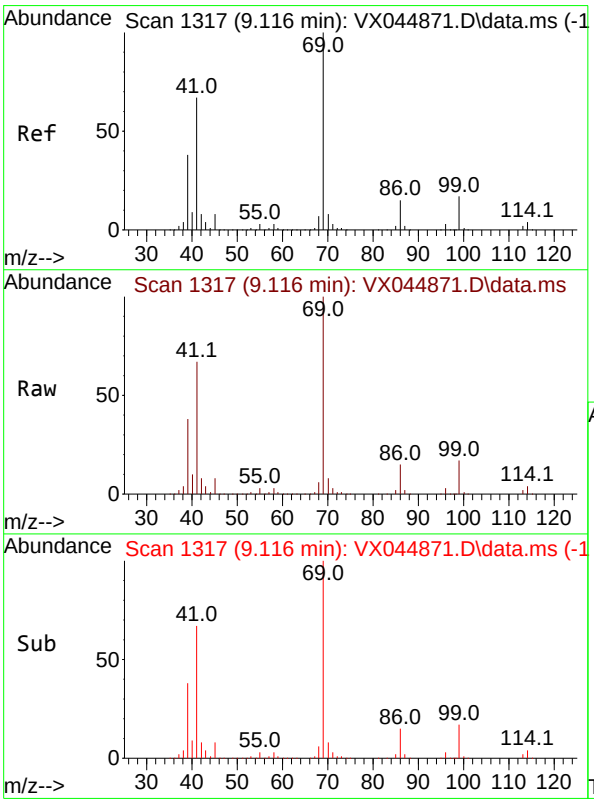
#55
1,1,2-Trichloroethane
Concen: 50.876 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 79741

Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.8	104.6
85	56.0	44.8	67.2
99	63.3	50.6	76.0

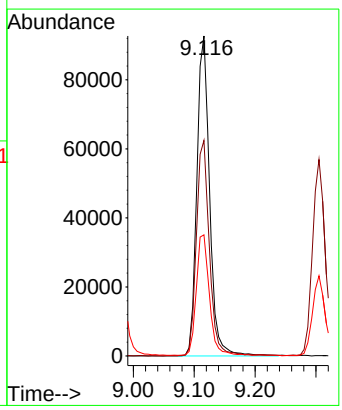


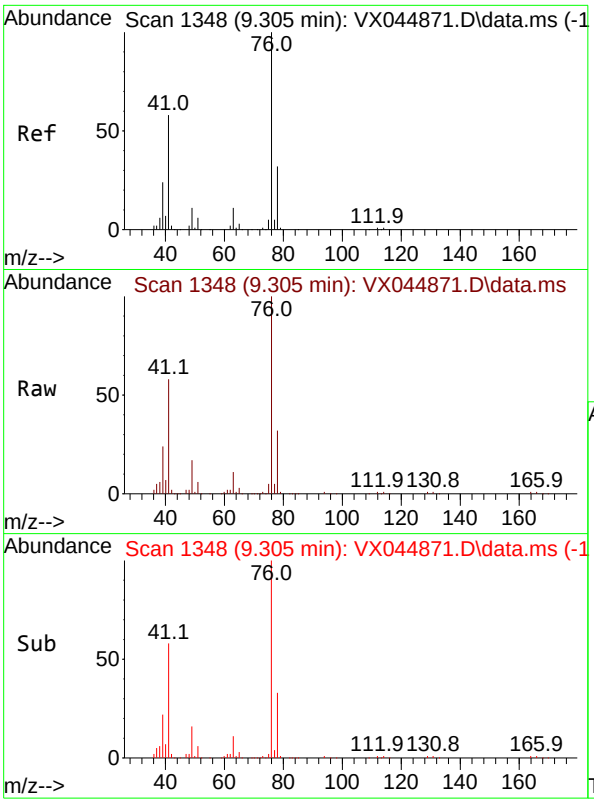


#56
Ethyl methacrylate
Concen: 53.319 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 69 Resp: 134975

Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.2	82.8
39	38.5	30.8	46.2



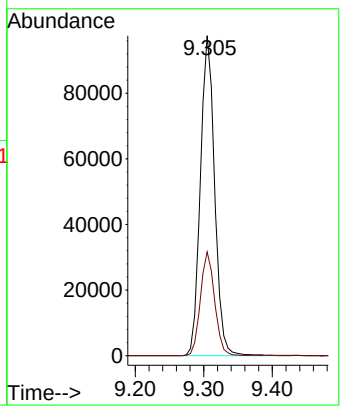


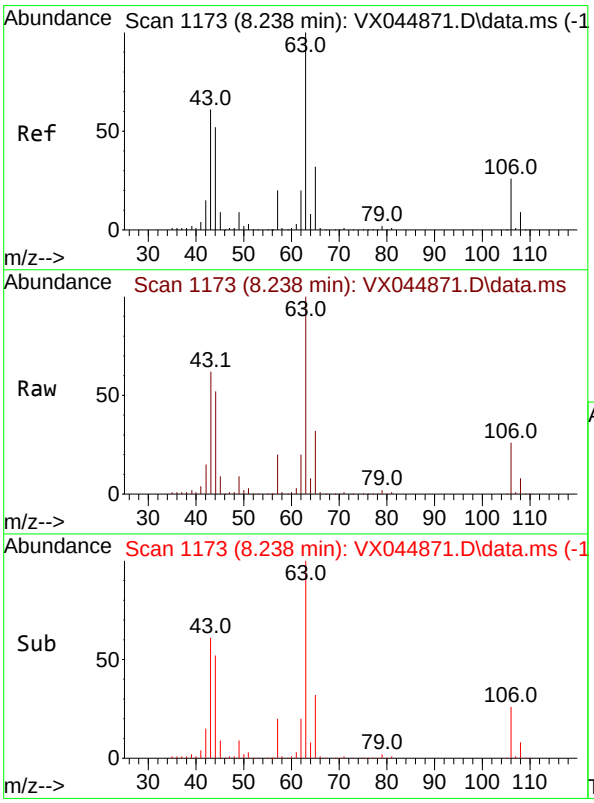
#57
1,3-Dichloropropane
Concen: 51.537 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 141335

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

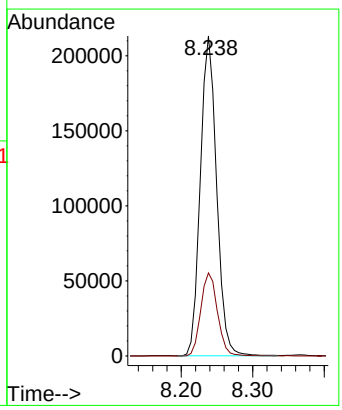


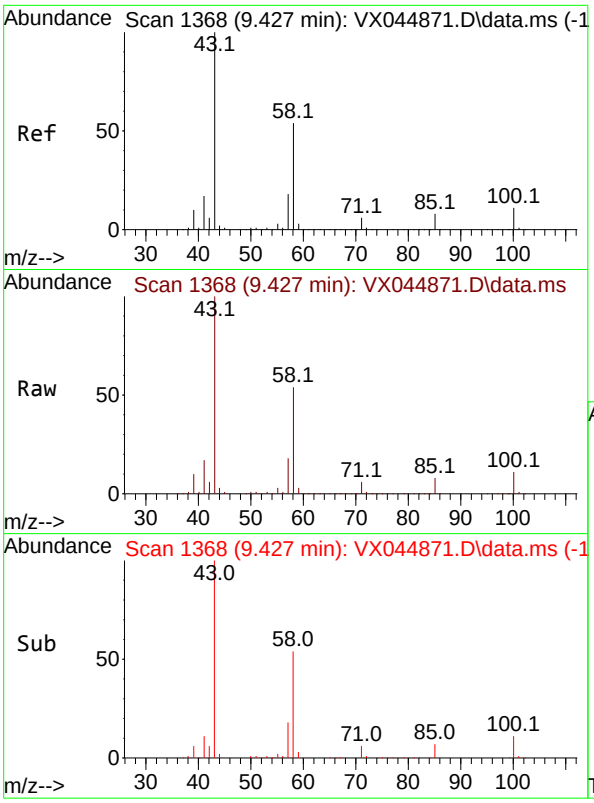


#58
2-Chloroethyl Vinyl ether
Concen: 270.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 336412

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9



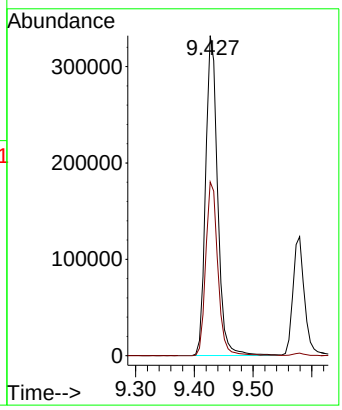


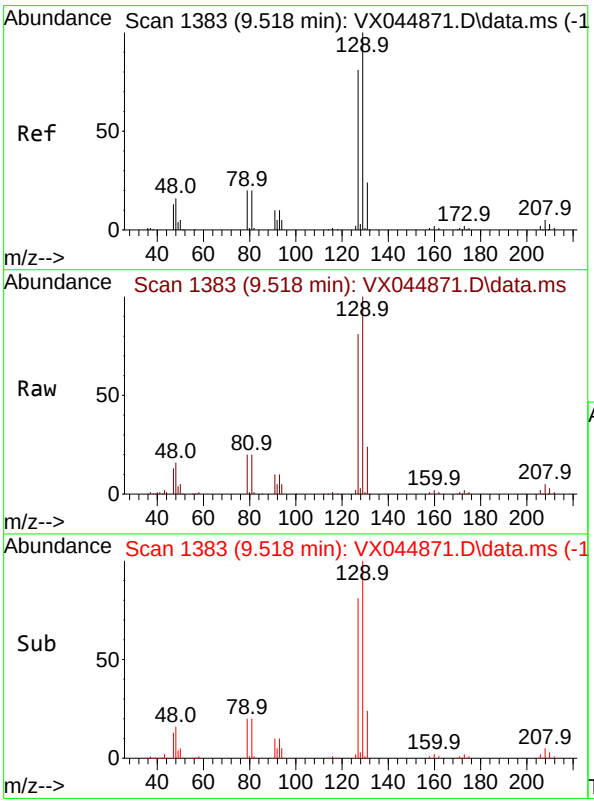
#59
2-Hexanone
Concen: 273.800 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 472301

Ion	Ratio	Lower	Upper
43	100		
58	54.9	27.5	82.4

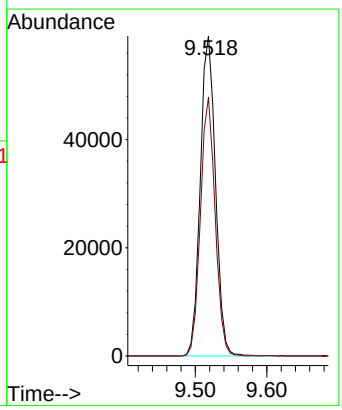


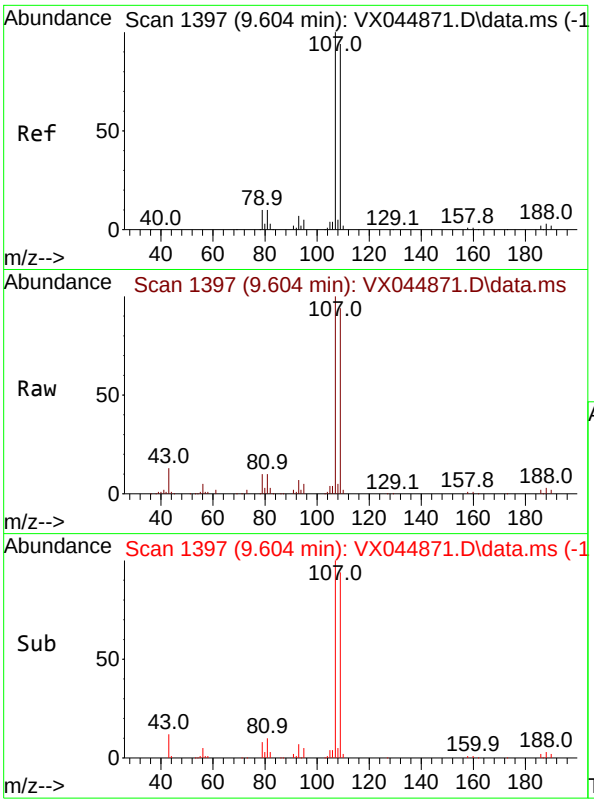


#60
Dibromochloromethane
Concen: 52.045 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:129 Resp: 87240

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3



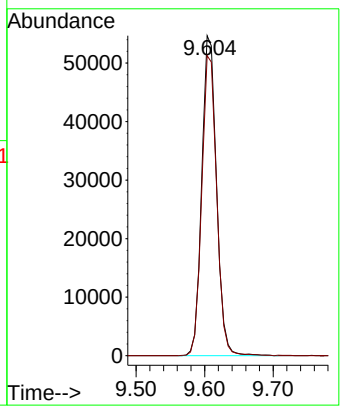


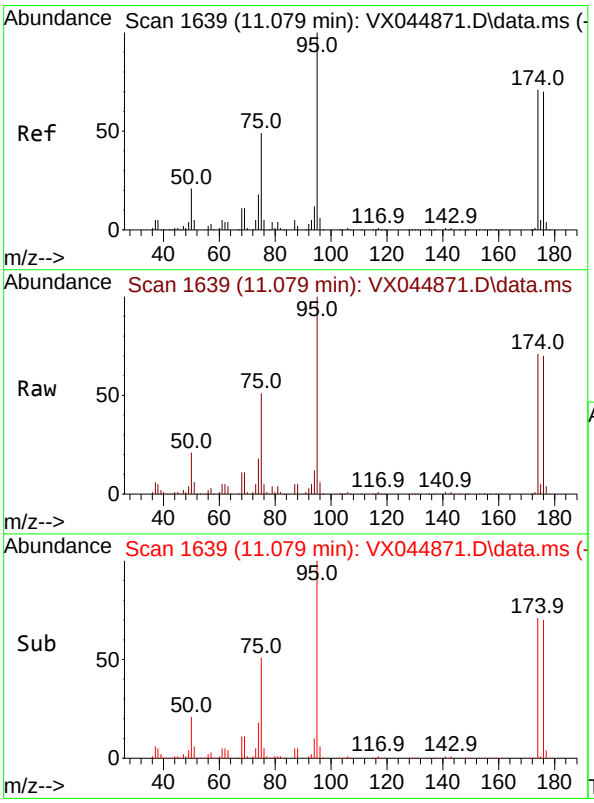
#61
1,2-Dibromoethane
Concen: 51.564 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 81915

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.9	113.9

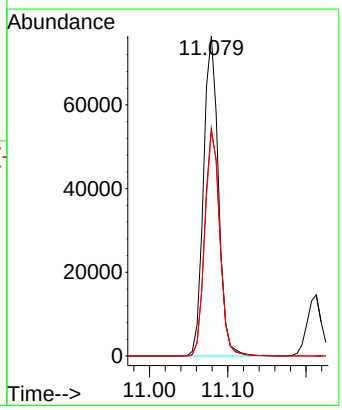


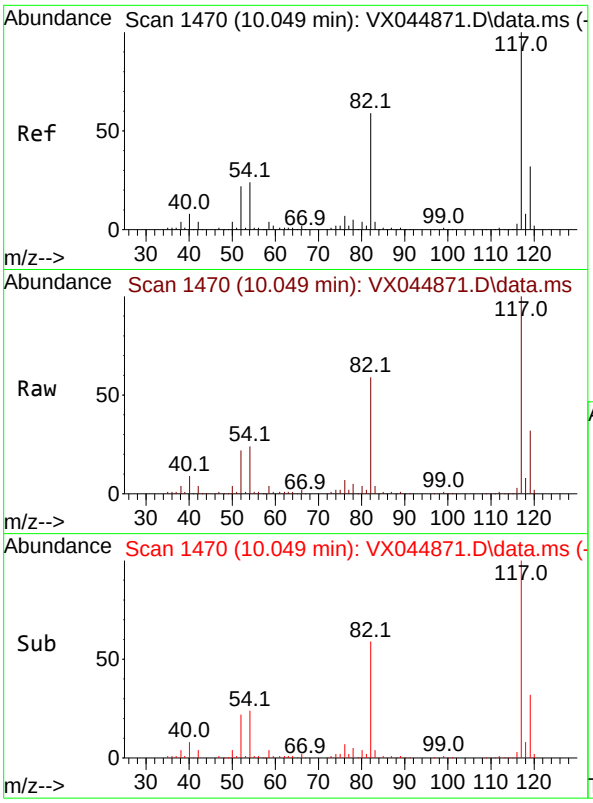


#62
4-Bromofluorobenzene
Concen: 52.031 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 95 Resp: 100798

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	142.6
176	70.8	0.0	141.6



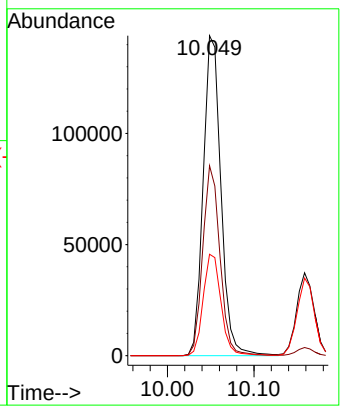


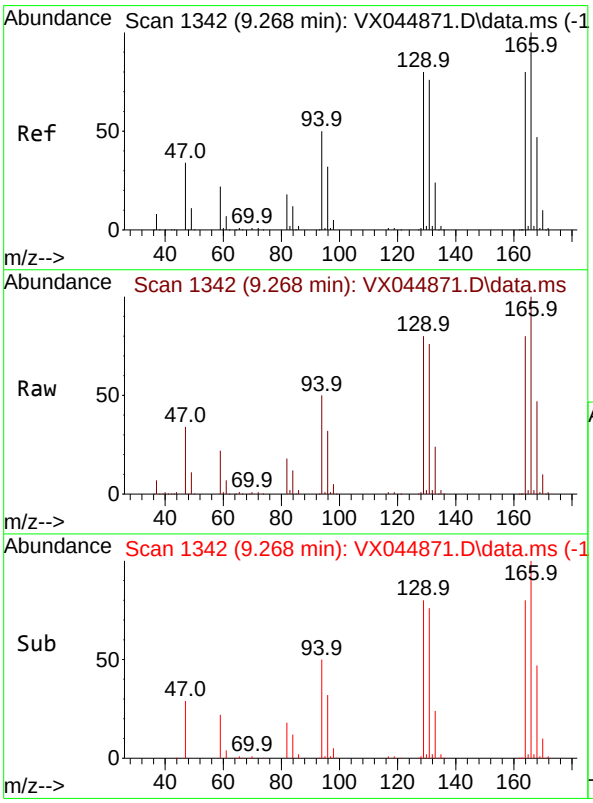
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 204751

Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	31.7	25.4	38.0

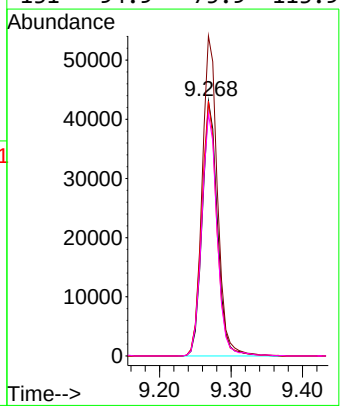


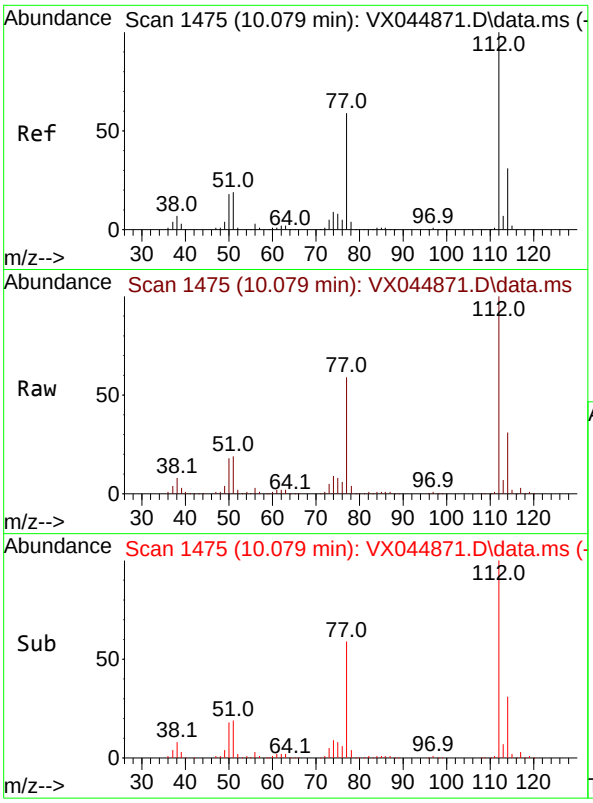


#64
Tetrachloroethene
Concen: 49.206 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:164 Resp: 63537

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.9	79.9	119.9
131	94.9	75.9	113.9



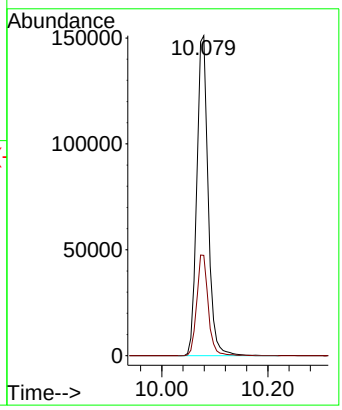


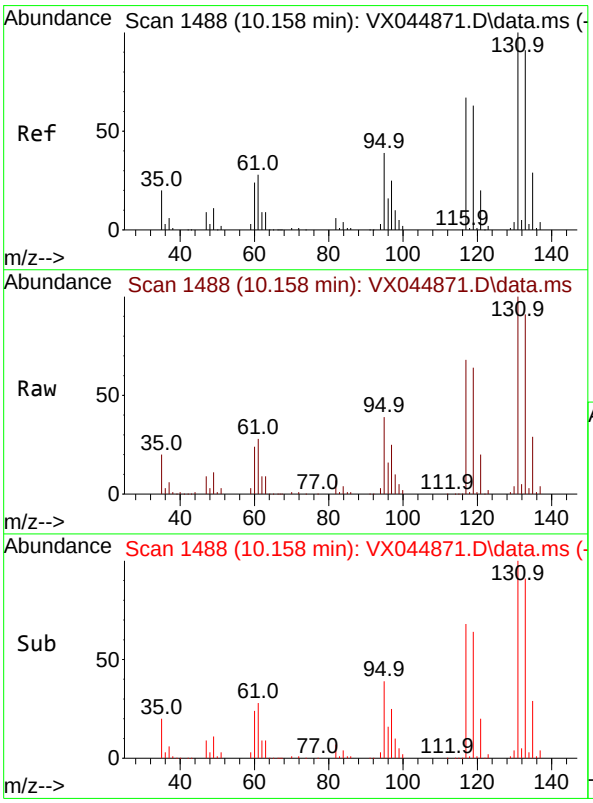
#65
Chlorobenzene
Concen: 51.005 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 224306

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6

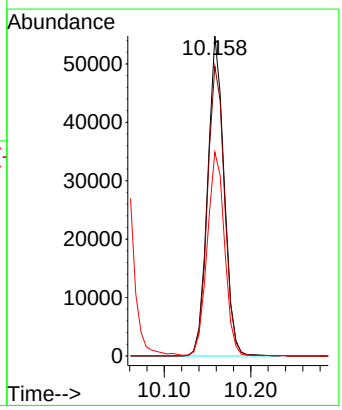


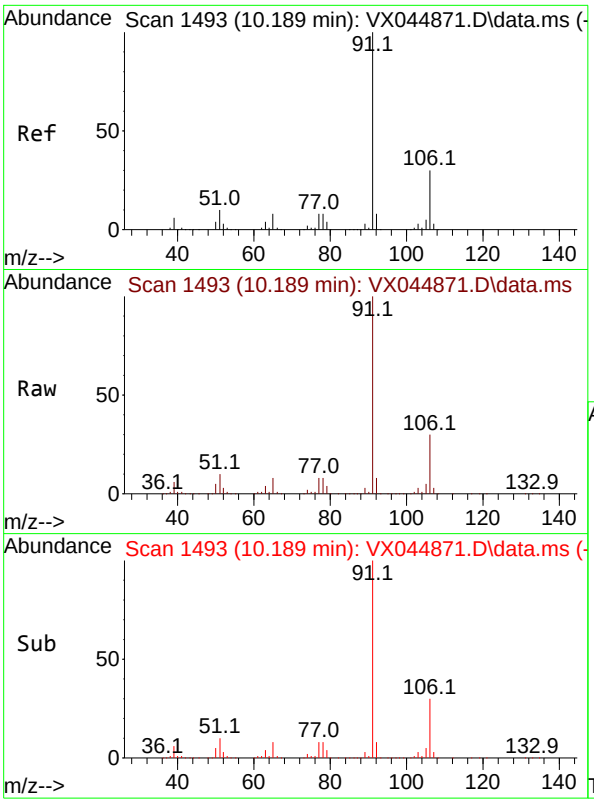


#66
1,1,1,2-Tetrachloroethane
Concen: 51.203 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:131 Resp: 72478

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.1	141.3
119	67.1	33.6	100.6



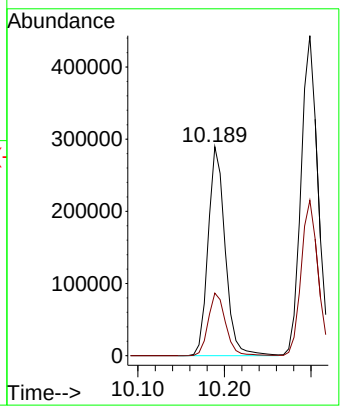


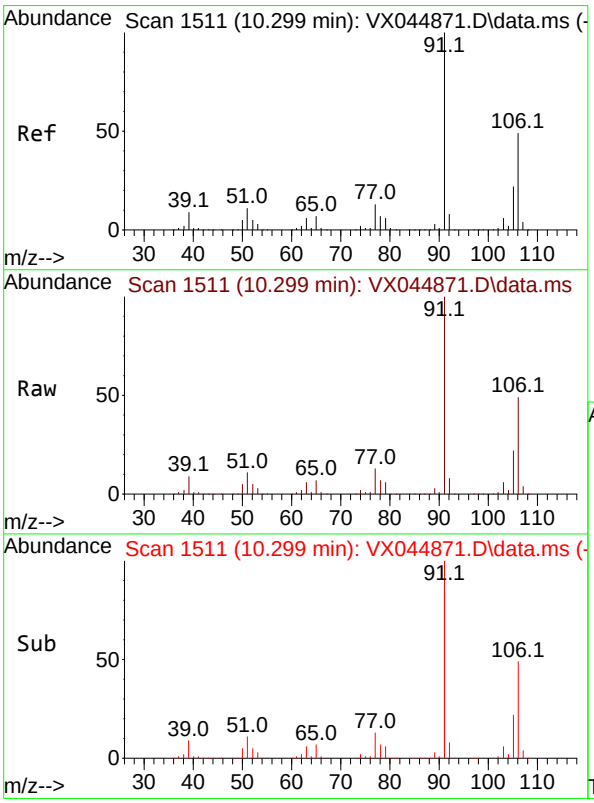
#67
Ethyl Benzene
Concen: 51.061 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 396269

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

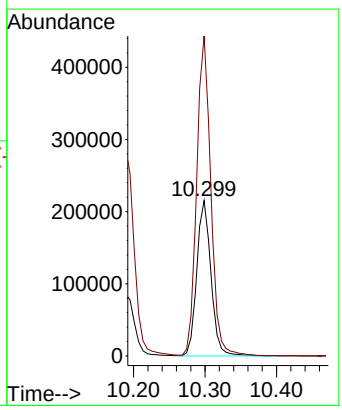


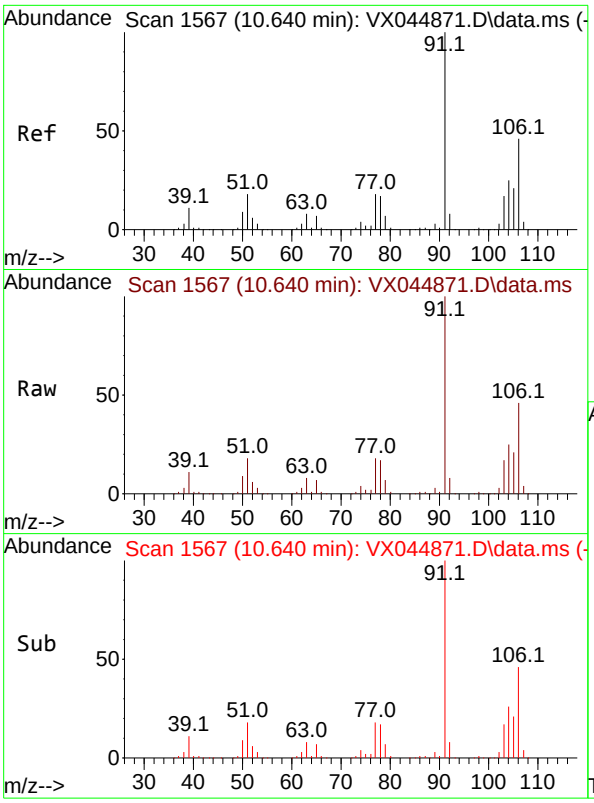


#68
m/p-Xylenes
Concen: 103.573 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:106 Resp: 296507

Ion	Ratio	Lower	Upper
106	100		
91	205.4	164.3	246.5



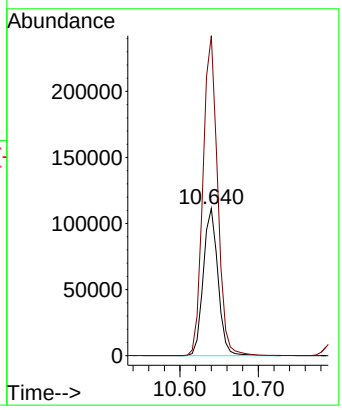


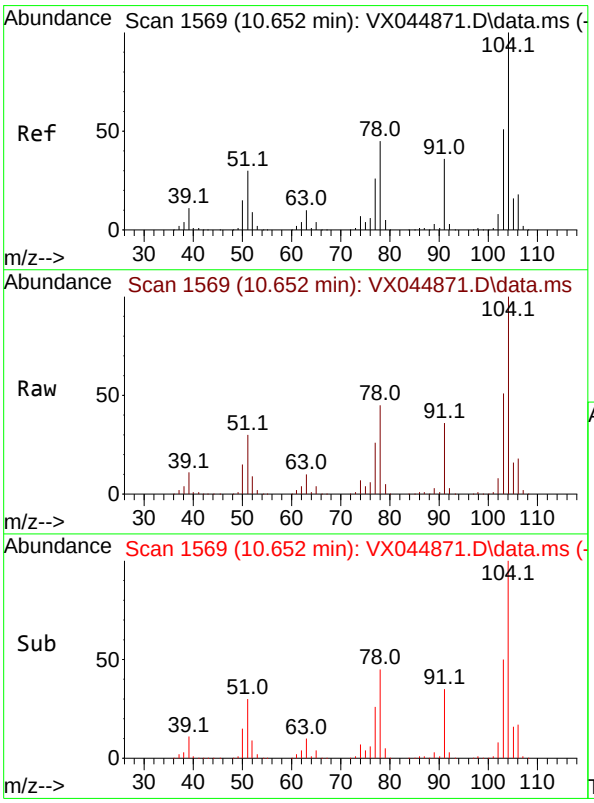
#69
o-Xylene
Concen: 50.409 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 144802

Ion	Ratio	Lower	Upper
106	100		
91	217.0	108.5	325.5

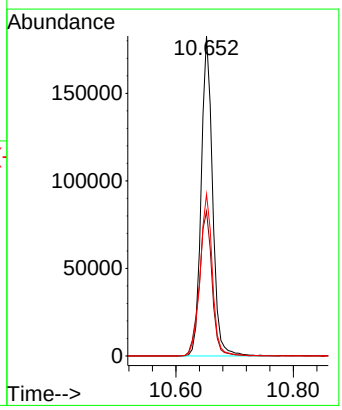


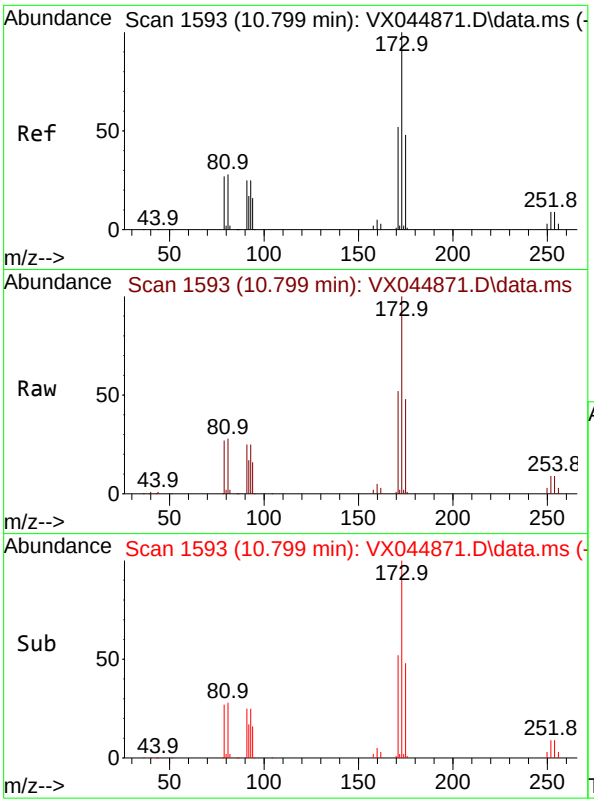


#70
Styrene
Concen: 53.051 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:104 Resp: 245518

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.5	60.7
103	54.5	43.6	65.4



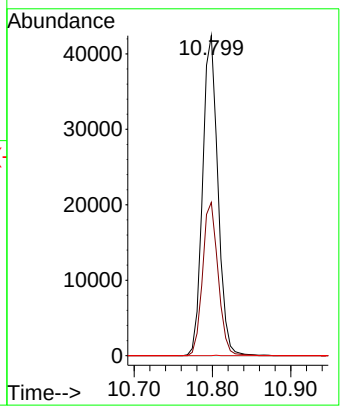


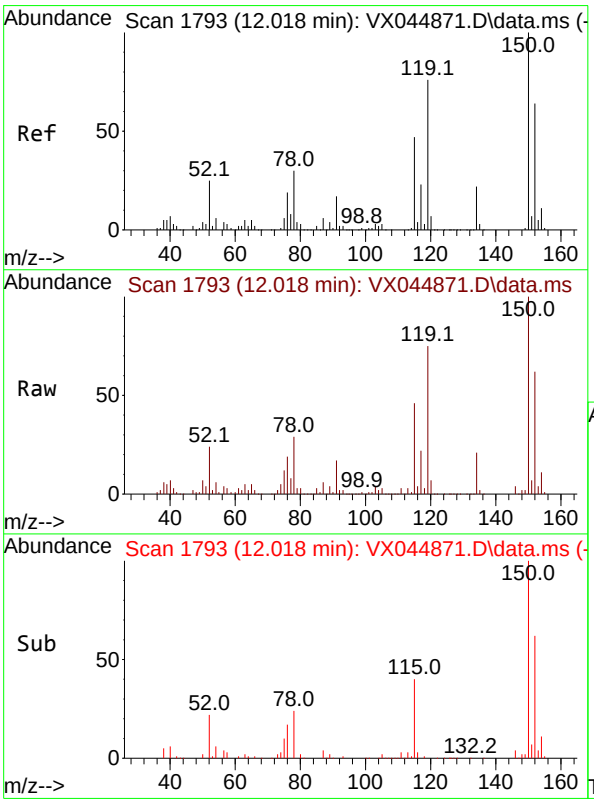
#71
Bromoform
Concen: 54.352 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 57417

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	72.8
254	0.0	0.0	0.0#

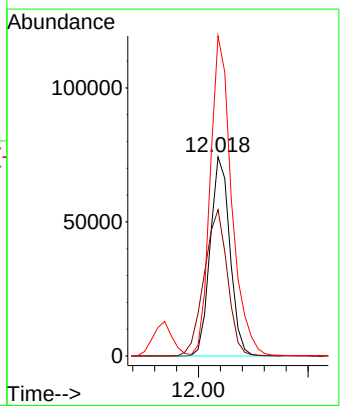


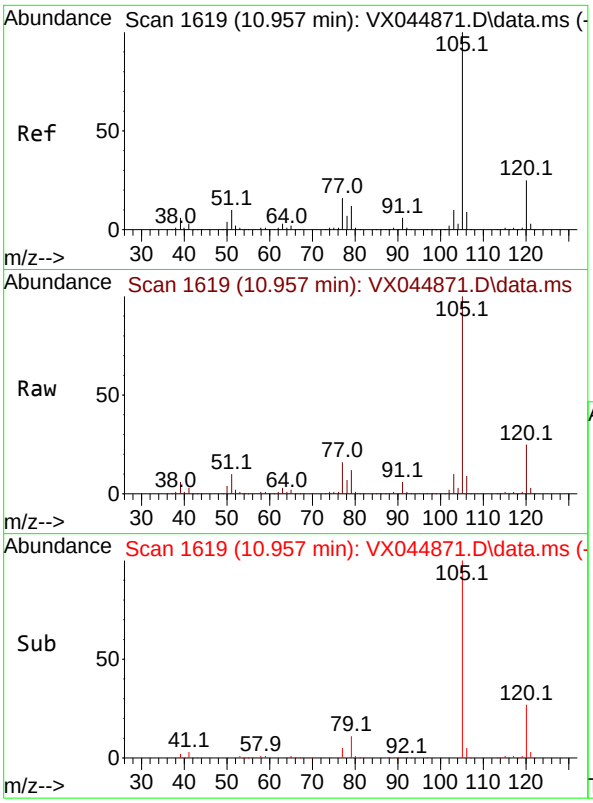


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:152 Resp: 92648

Ion	Ratio	Lower	Upper
152	100		
115	86.7	43.4	130.1
150	175.2	0.0	350.4



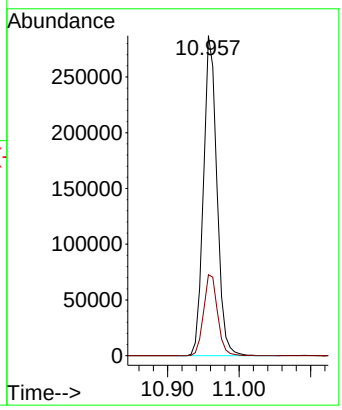


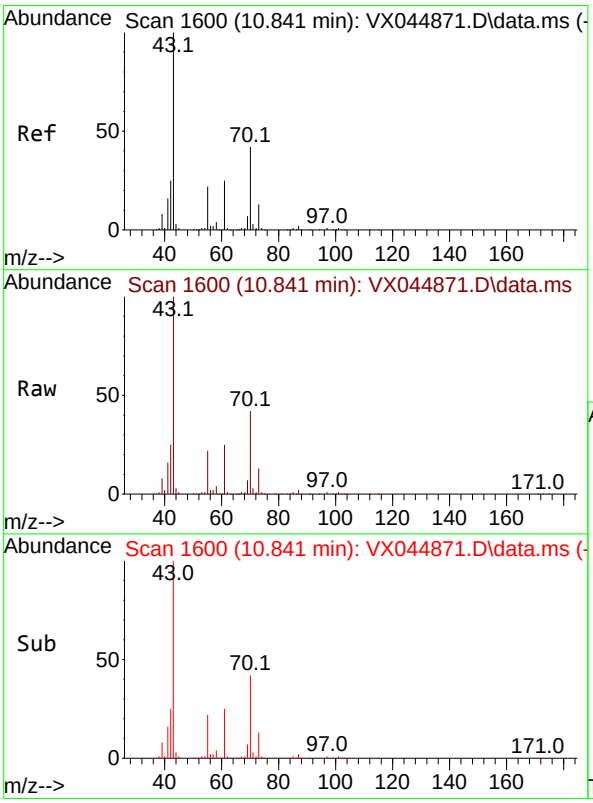
#73
Isopropylbenzene
Concen: 50.239 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 374776

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

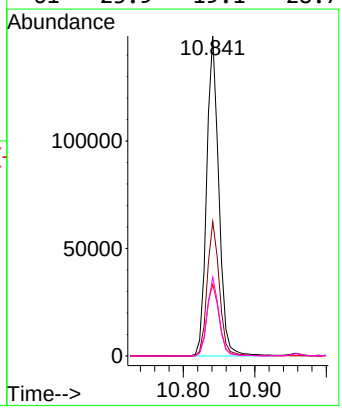


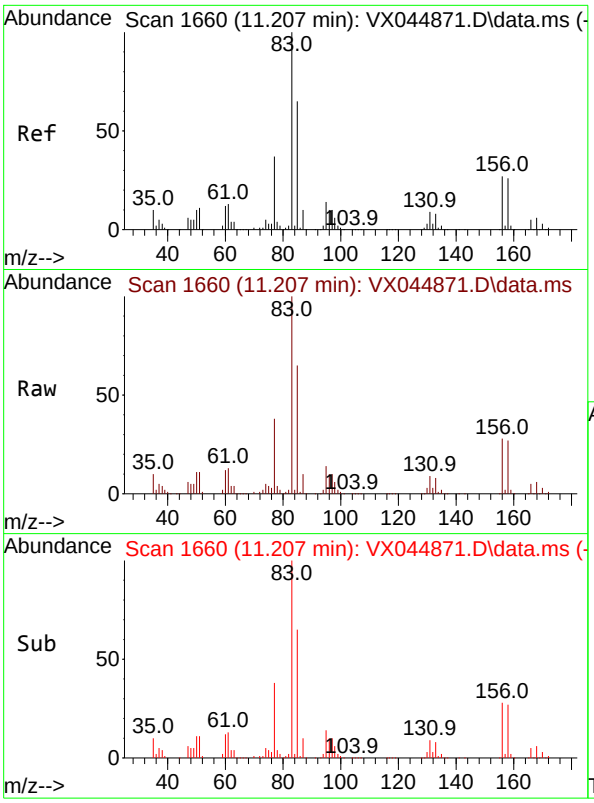


#74
N-amyl acetate
Concen: 52.189 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 176174

Ion	Ratio	Lower	Upper
43	100		
70	42.1	33.7	50.5
55	23.2	18.6	27.8
61	23.9	19.1	28.7



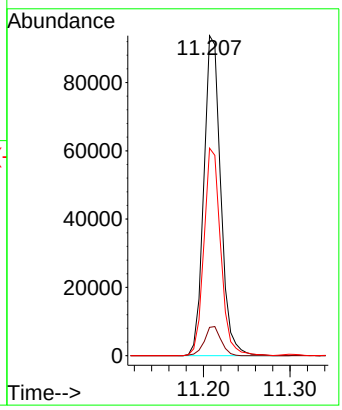


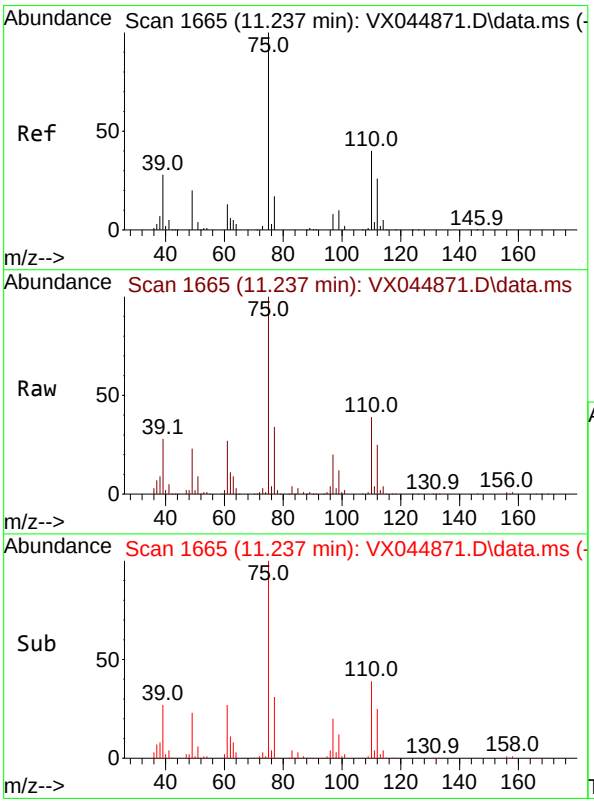
#75
1,1,2,2-Tetrachloroethane
Concen: 49.364 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 126542

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.5
85	64.5	32.3	96.8

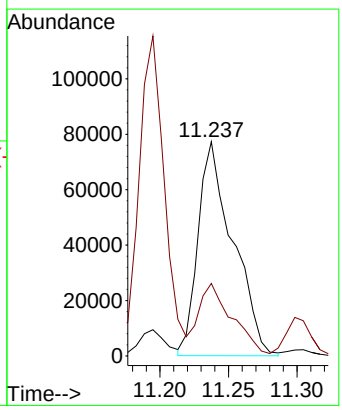


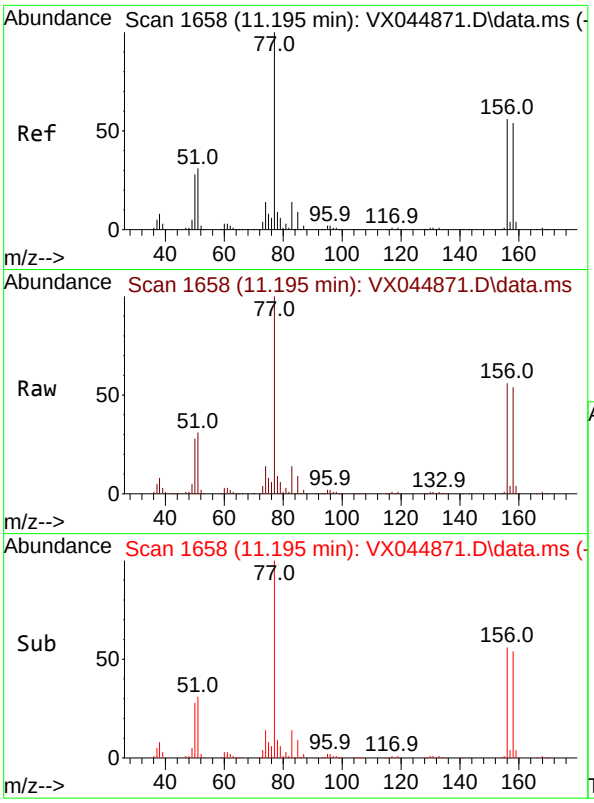


#76
1,2,3-Trichloropropane
Concen: 66.637 ug/l
RT: 11.237 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 136881

Ion	Ratio	Lower	Upper
75	100		
77	32.8	21.9	65.7



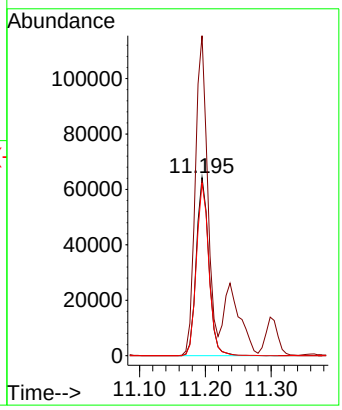


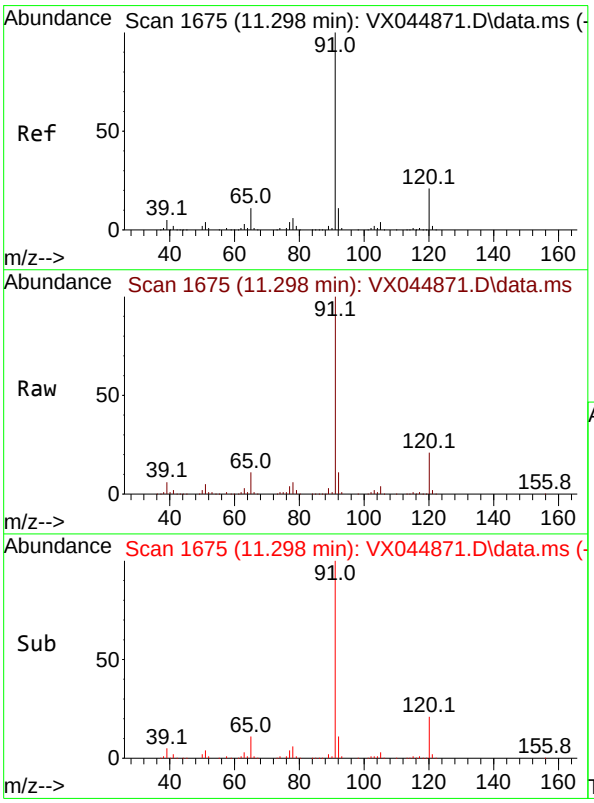
#77
Bromobenzene
Concen: 49.931 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 84448

Ion	Ratio	Lower	Upper
156	100		
77	176.9	88.4	265.3
158	96.8	48.4	145.2

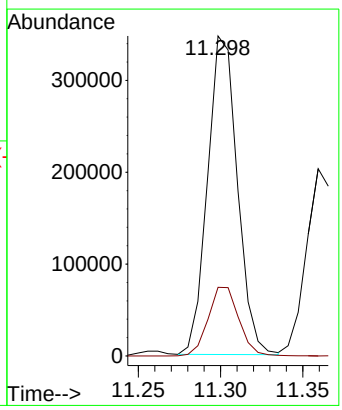


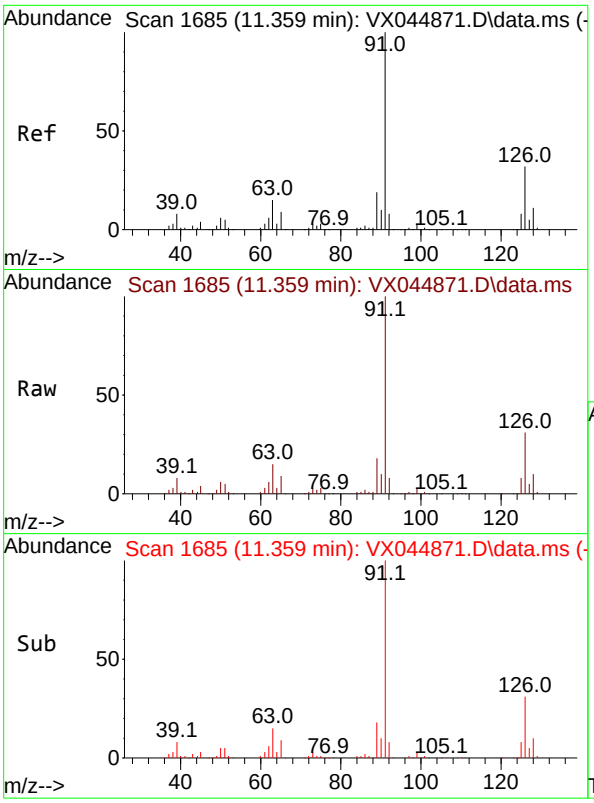


#78
n-propylbenzene
Concen: 50.818 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 437572

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



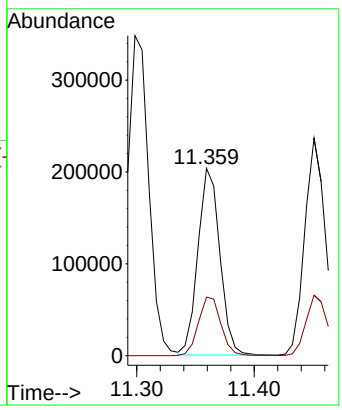


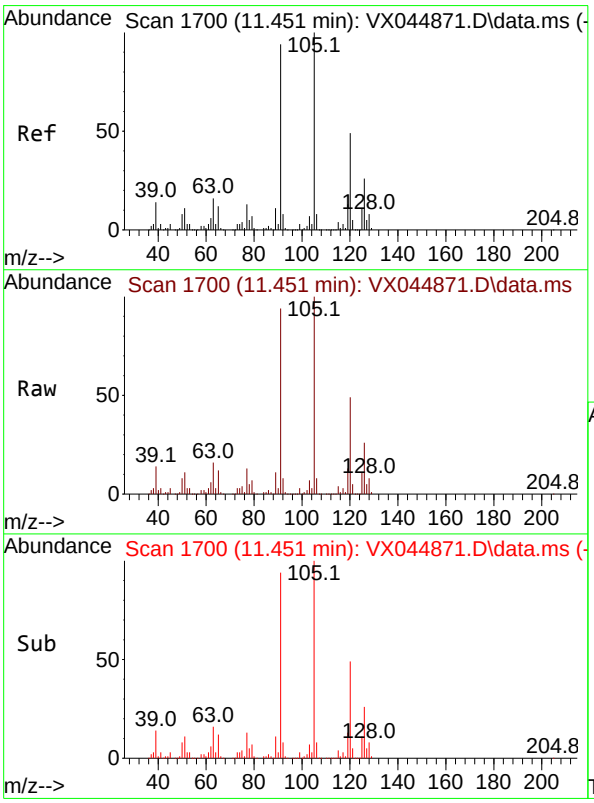
#79
2-Chlorotoluene
Concen: 49.749 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 263269

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6

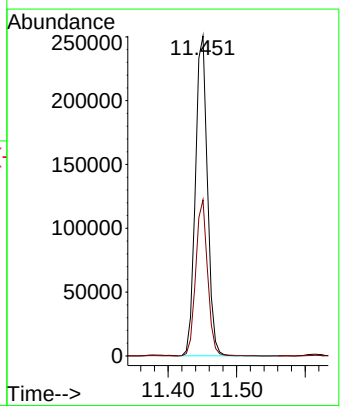


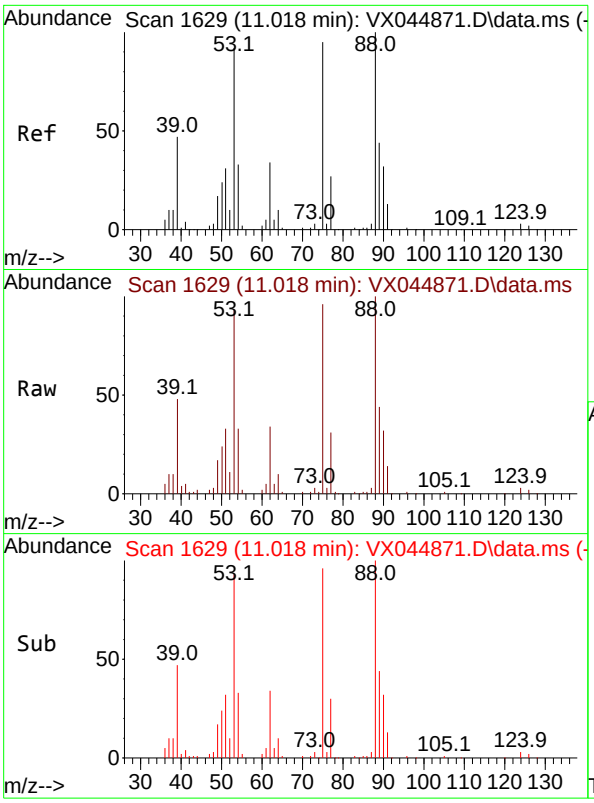


#80
1,3,5-Trimethylbenzene
Concen: 50.789 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 307465

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0



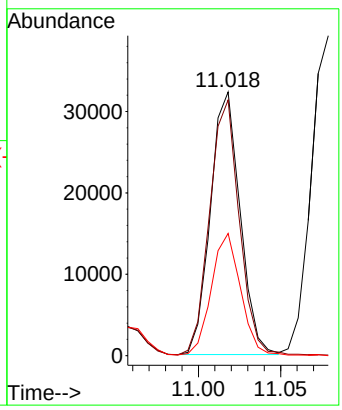


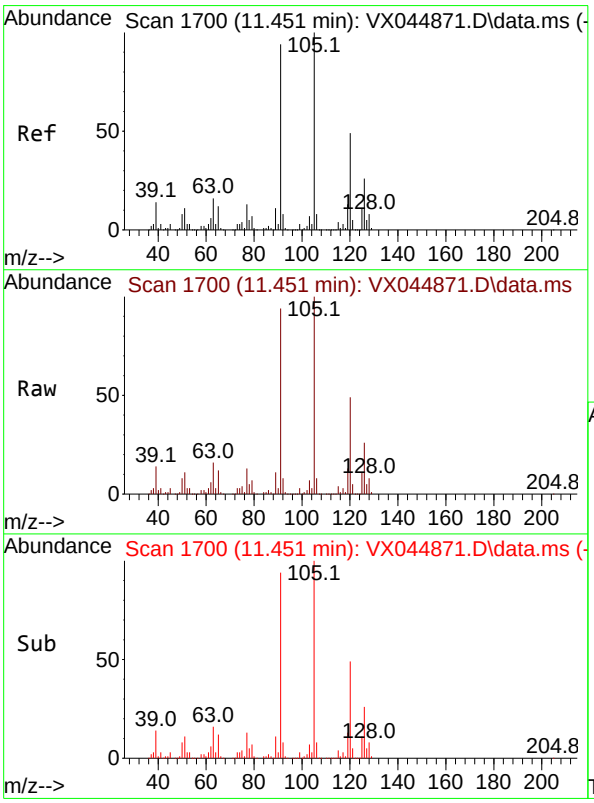
#81
trans-1,4-Dichloro-2-butene
Concen: 50.701 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 40487

Ion	Ratio	Lower	Upper
75	100		
53	97.5	78.0	117.0
89	45.7	36.6	54.8

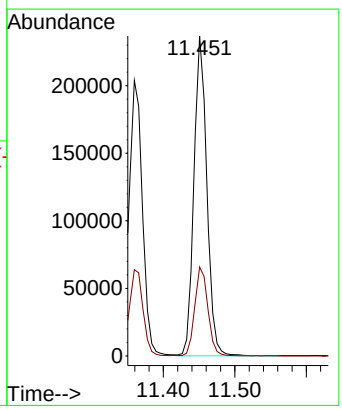


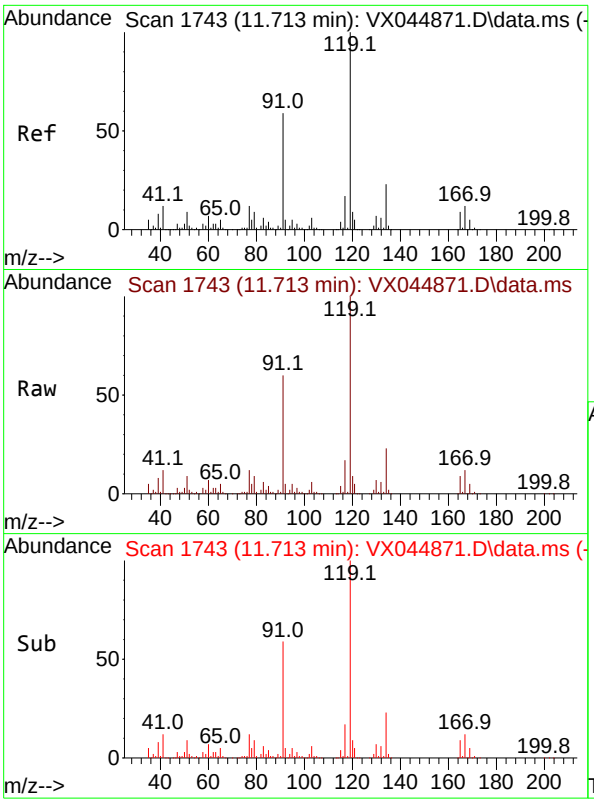


#82
4-Chlorotoluene
Concen: 50.531 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 295844

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6



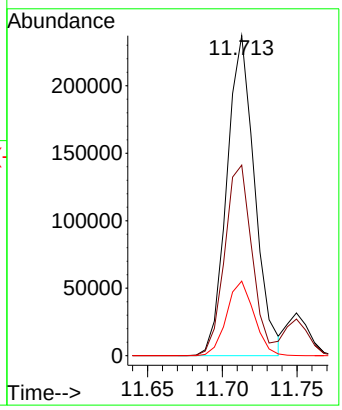


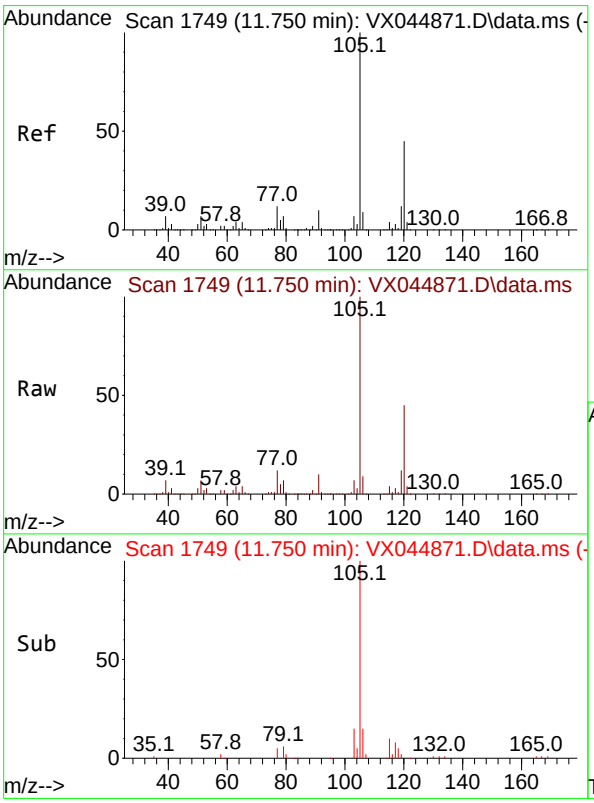
#83
tert-Butylbenzene
Concen: 50.102 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 306830

Ion	Ratio	Lower	Upper
119	100		
91	58.3	29.1	87.4
134	23.0	11.5	34.5

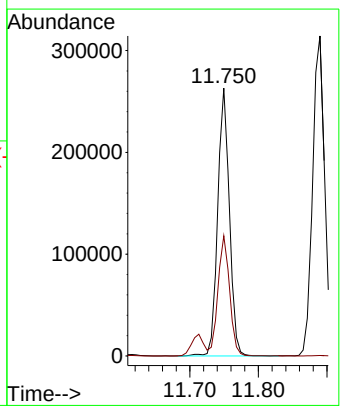


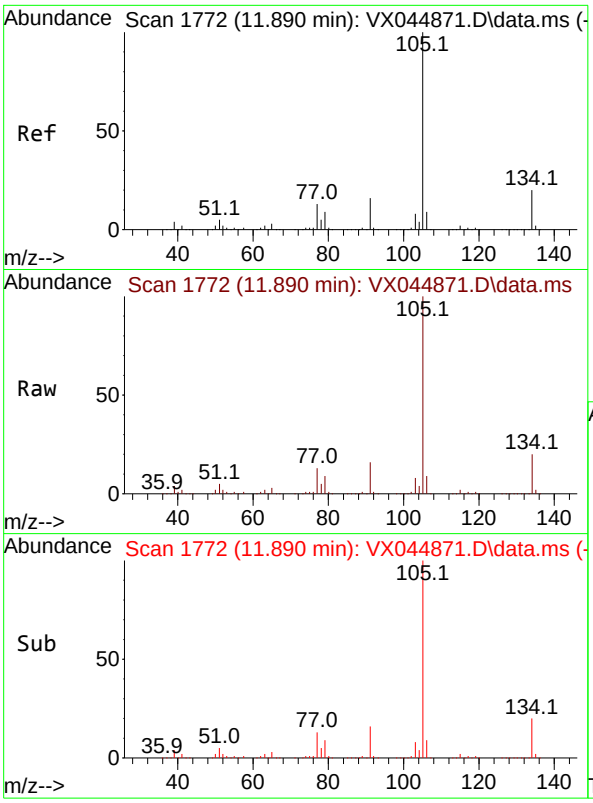


#84
1,2,4-Trimethylbenzene
Concen: 52.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 311205

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.0



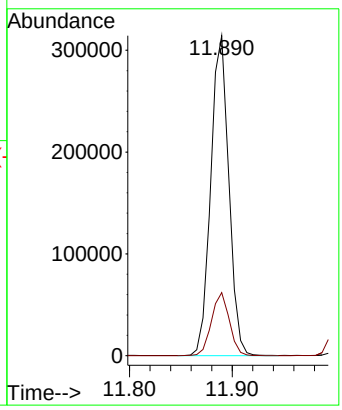


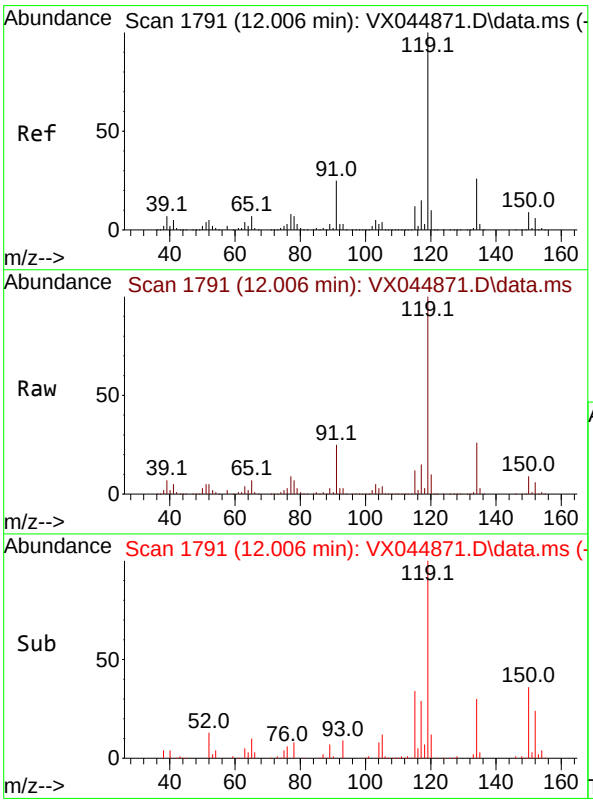
#85
sec-Butylbenzene
Concen: 50.657 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 384155

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3

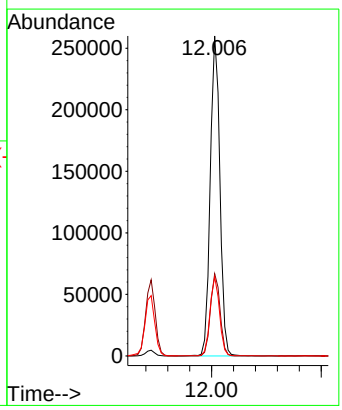


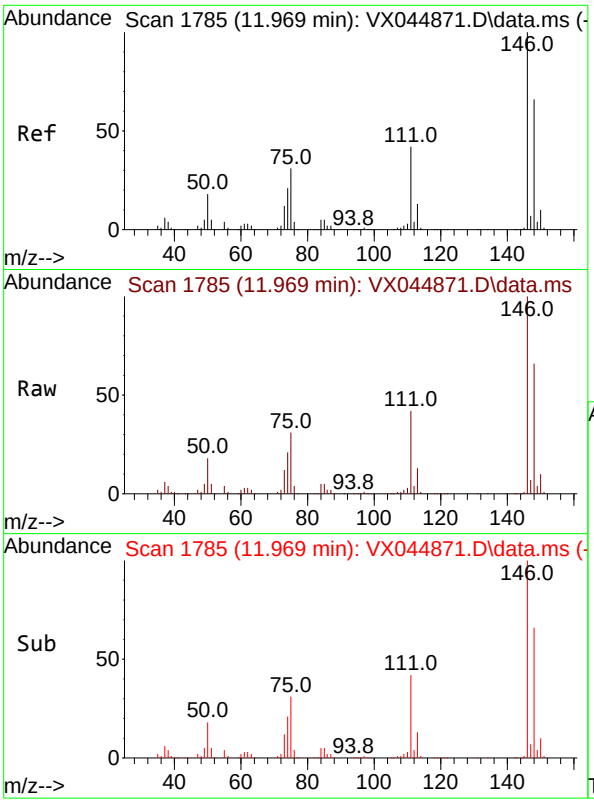


#86
p-Isopropyltoluene
Concen: 51.689 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:119 Resp: 315226

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	38.9
91	24.2	12.1	36.3



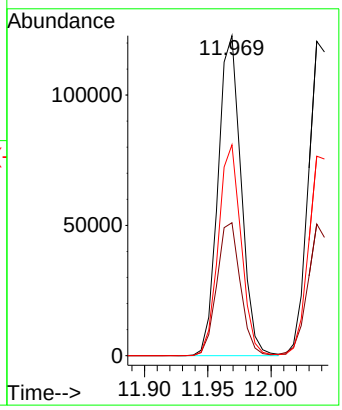


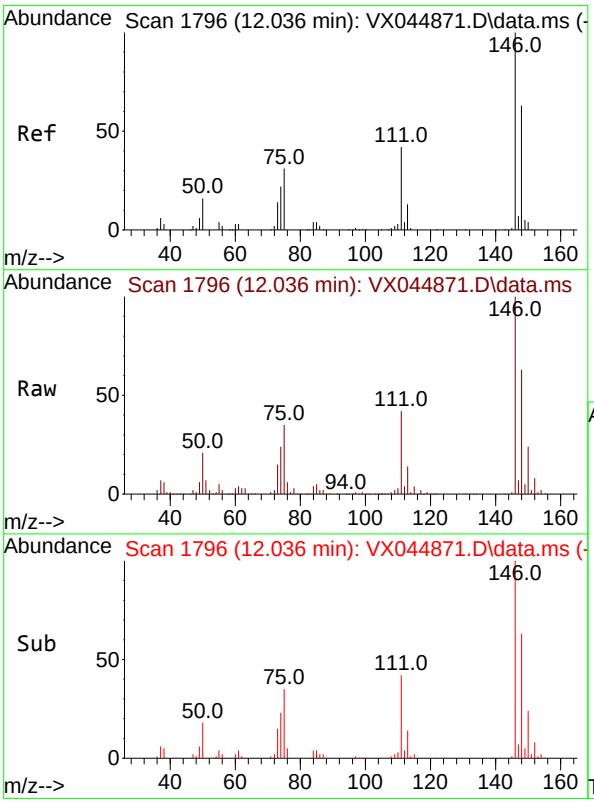
#87
1,3-Dichlorobenzene
Concen: 50.021 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 155575

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.0	32.5	97.5

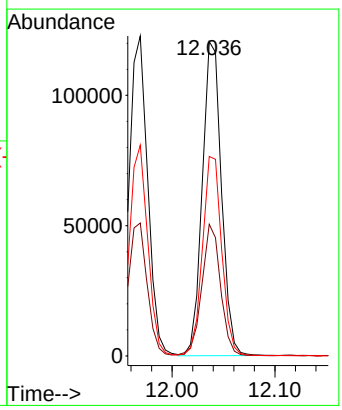


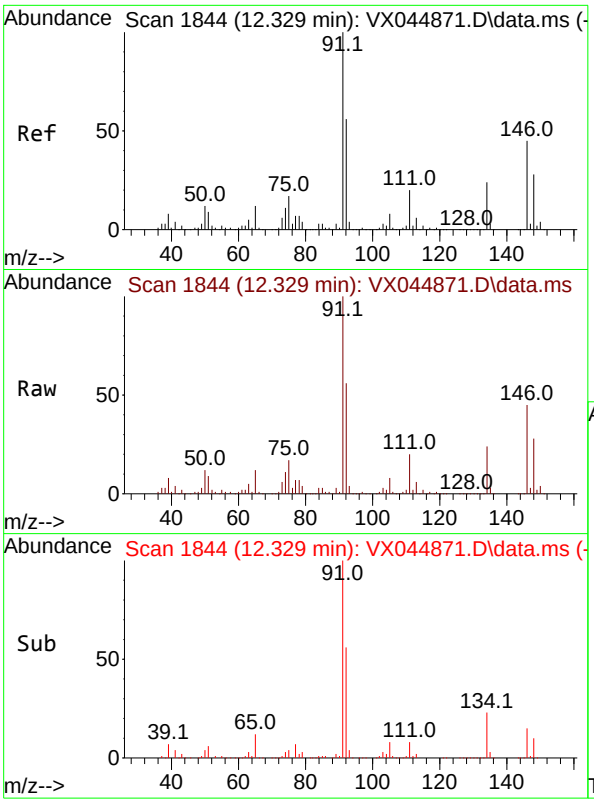


#88
1,4-Dichlorobenzene
Concen: 49.657 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 156162

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.4	61.3
148	64.0	32.0	96.0



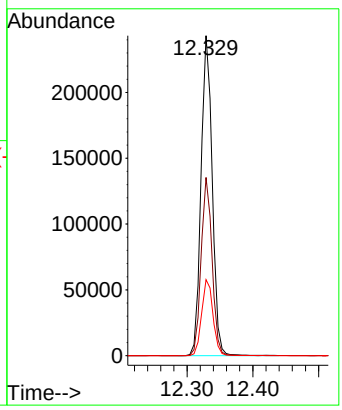


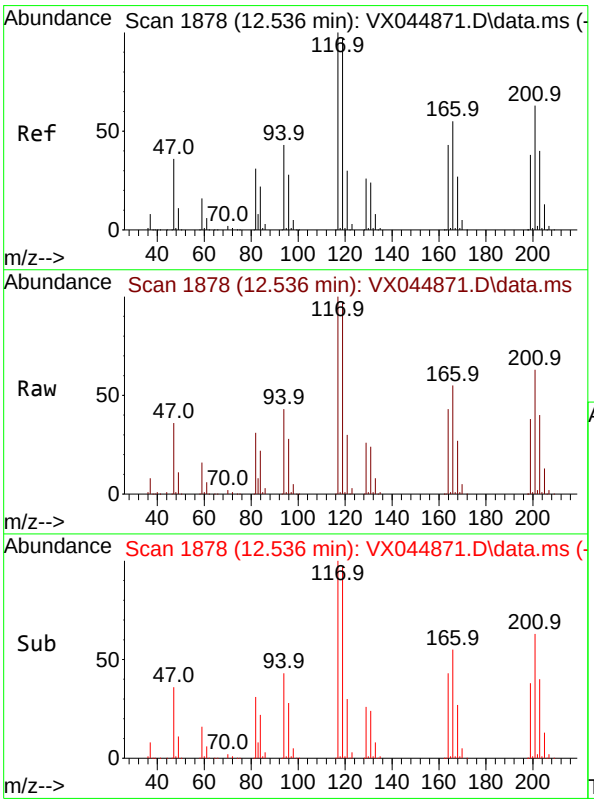
#89
n-Butylbenzene
Concen: 53.315 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 287649

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.2	81.6
134	24.2	12.1	36.3

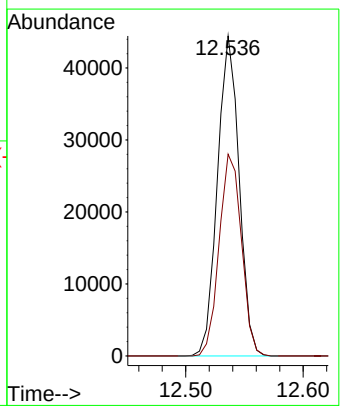


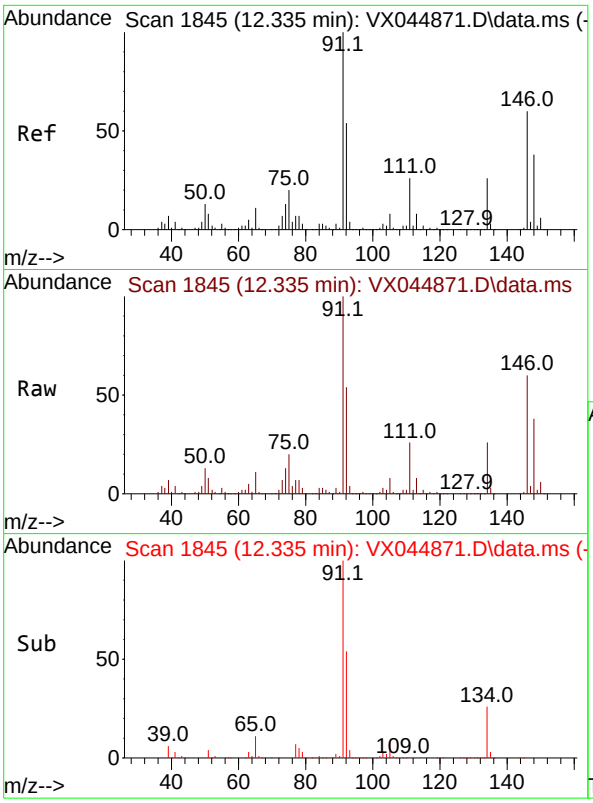


#90
Hexachloroethane
Concen: 49.874 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 56951

Ion	Ratio	Lower	Upper
117	100		
201	65.0	32.5	97.5



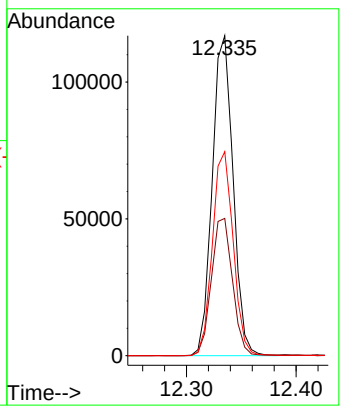


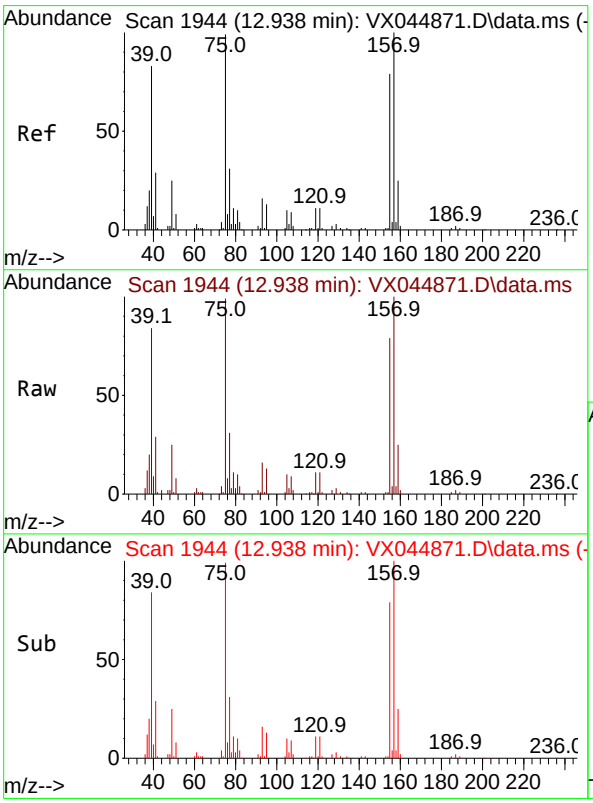
#91
1,2-Dichlorobenzene
Concen: 50.500 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 154364

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.8	65.4
148	63.9	31.9	95.9

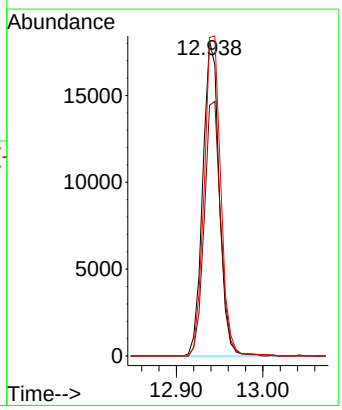


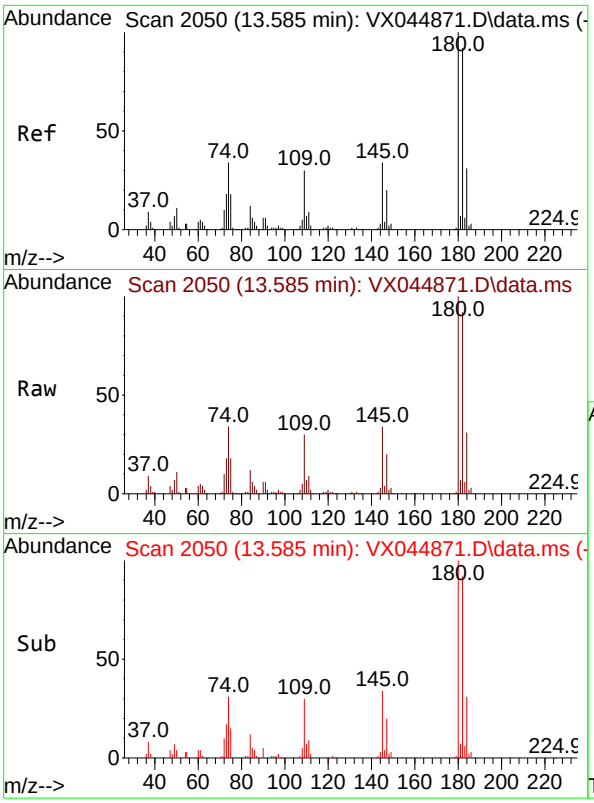


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.135 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 23924

Ion	Ratio	Lower	Upper
75	100		
155	80.9	40.5	121.4
157	102.9	51.4	154.3



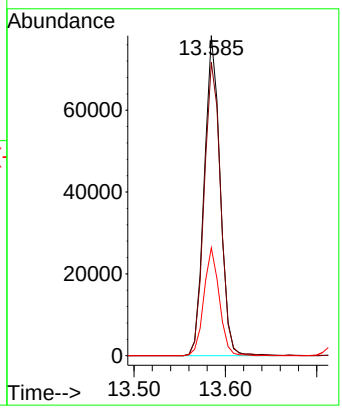


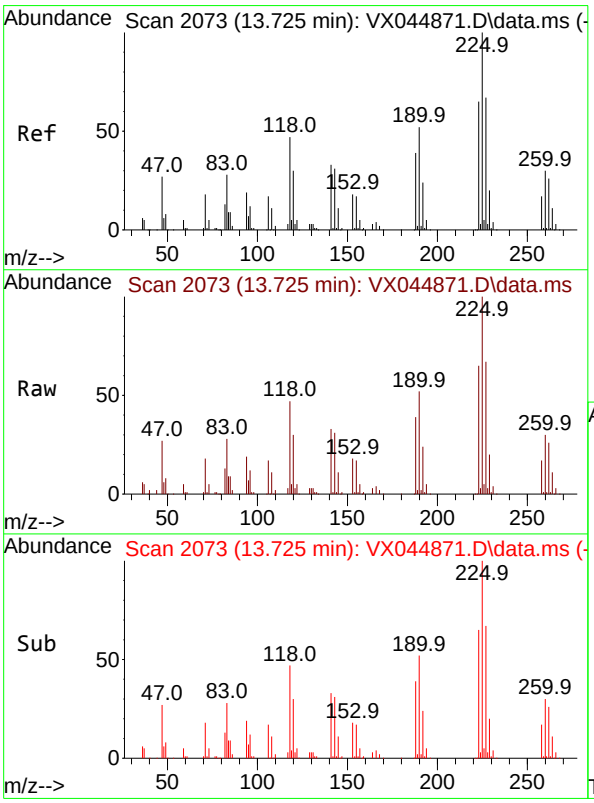
#93
1,2,4-Trichlorobenzene
Concen: 50.747 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 93863

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	32.7	16.4	49.1

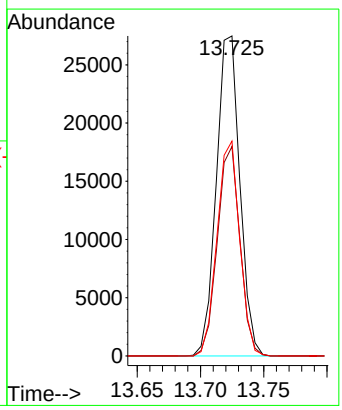


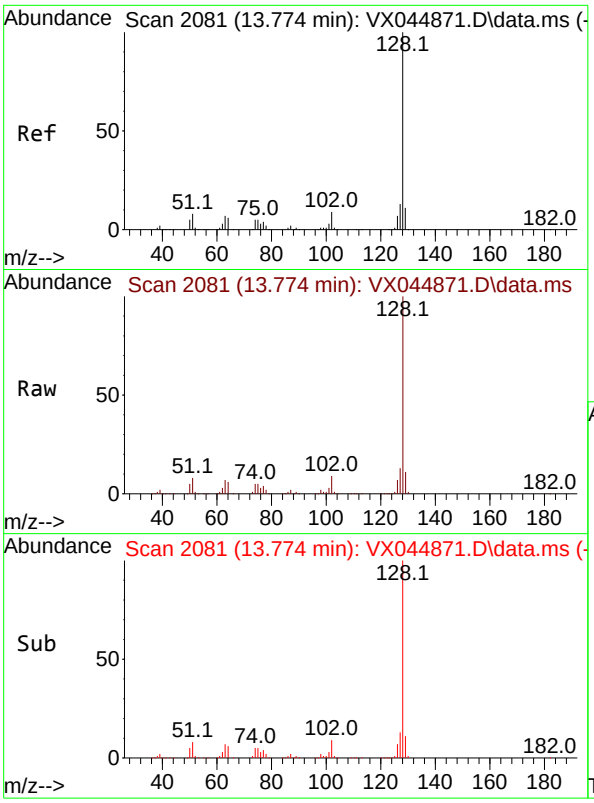


#94
Hexachlorobutadiene
Concen: 48.321 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:225 Resp: 35481

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.4	94.2
227	64.5	32.3	96.8



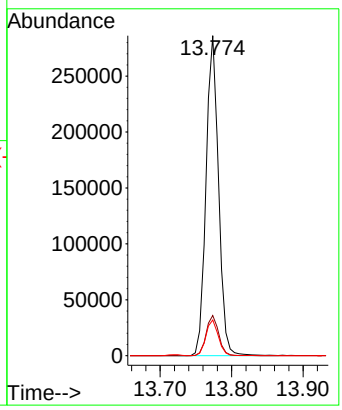


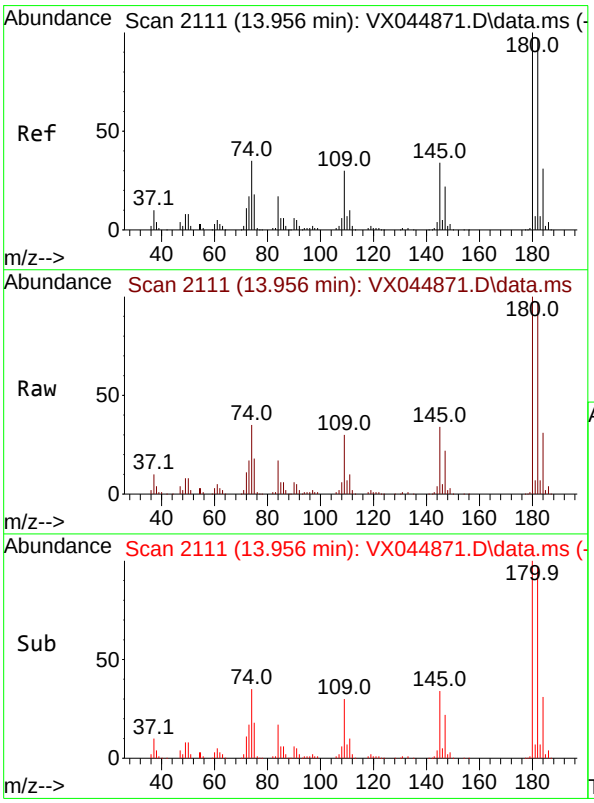
#95
Naphthalene
Concen: 51.995 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 347645

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.1	8.9	13.3

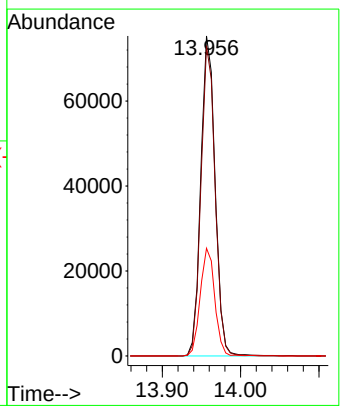




#96
1,2,3-Trichlorobenzene
Concen: 51.245 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:180 Resp: 95510

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.6
145	34.2	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	129508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	236372	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	203881	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	91371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	183093	96.580	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 193.160%#			
35) Dibromofluoromethane	5.373	113	151228	98.404	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 196.800%#			
50) Toluene-d8	8.647	98	570976	98.253	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 196.500%#			
62) 4-Bromofluorobenzene	11.079	95	196066	100.079	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.160%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	182788	100.632	ug/l	99
3) Chloromethane	1.301	50	208416	94.275	ug/l	99
4) Vinyl Chloride	1.374	62	209017	97.593	ug/l	100
5) Bromomethane	1.593	94	62797	97.984	ug/l	97
6) Chloroethane	1.660	64	64581	100.253	ug/l	98
7) Trichlorofluoromethane	1.868	101	262354	96.865	ug/l	99
8) Diethyl Ether	2.130	74	95914	97.647	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	163414	99.860	ug/l	100
10) Methyl Iodide	2.441	142	212118	100.016	ug/l	99
11) Tert butyl alcohol	3.002	59	165263	469.903	ug/l #	73
12) 1,1-Dichloroethene	2.307	96	163593	98.004	ug/l	98
13) Acrolein	2.233	56	180570	497.628	ug/l	99
14) Allyl chloride	2.654	41	297526	98.624	ug/l	98
15) Acrylonitrile	3.063	53	466855	497.173	ug/l	99
16) Acetone	2.386	43	369720	485.125	ug/l	99
17) Carbon Disulfide	2.502	76	463308	101.216	ug/l	99
18) Methyl Acetate	2.703	43	238689	99.249	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	521003	98.098	ug/l	100
20) Methylene Chloride	2.782	84	180120	96.490	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	164067	99.864	ug/l	95
22) Diisopropyl ether	3.758	45	565927	99.157	ug/l	95
23) Vinyl Acetate	3.715	43	2387200	513.051	ug/l	100
24) 1,1-Dichloroethane	3.599	63	313164	98.064	ug/l	99
25) 2-Butanone	4.550	43	617283	498.801	ug/l	98
26) 2,2-Dichloropropane	4.465	77	248324	98.053	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	196381	99.513	ug/l	99
28) Bromochloromethane	4.885	49	148137	96.524	ug/l	100
29) Tetrahydrofuran	4.995	42	405208	493.104	ug/l	100
30) Chloroform	5.087	83	298690	96.445	ug/l	99
31) Cyclohexane	5.458	56	286830	97.426	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	254941	97.050	ug/l	100
36) 1,1-Dichloropropene	5.684	75	216005	97.422	ug/l	100
37) Ethyl Acetate	4.709	43	244164	99.005	ug/l	99
38) Carbon Tetrachloride	5.666	117	210381	96.828	ug/l	97
39) Methylcyclohexane	7.373	83	299703	104.554	ug/l	98
40) Benzene	6.025	78	675556	97.576	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	135629	102.745	ug/l		99
42) 1,2-Dichloroethane	6.080	62	218174	98.875	ug/l		100
43) Isopropyl Acetate	6.336	43	405489	101.818	ug/l		100
44) Trichloroethene	7.117	130	156832	99.103	ug/l		96
45) 1,2-Dichloropropane	7.422	63	170337	98.893	ug/l		97
46) Dibromomethane	7.574	93	119149	99.747	ug/l		100
47) Bromodichloromethane	7.818	83	236506	102.254	ug/l		97
48) Methyl methacrylate	7.690	41	195892	104.321	ug/l		100
49) 1,4-Dioxane	7.659	88	77816	1931.508	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	1196887	494.353	ug/l		100
52) Toluene	8.714	92	409318	99.270	ug/l		99
53) t-1,3-Dichloropropene	8.970	75	249725	106.694	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	277371	106.287	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	156629	98.817	ug/l		100
56) Ethyl methacrylate	9.116	69	268693	104.958	ug/l		99
57) 1,3-Dichloropropane	9.305	76	273845	98.742	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	664198	528.405	ug/l		100
59) 2-Hexanone	9.427	43	871904	499.819	ug/l		99
60) Dibromochloromethane	9.519	129	173848	102.557	ug/l		100
61) 1,2-Dibromoethane	9.604	107	162982	101.451	ug/l		98
64) Tetrachloroethene	9.269	164	125294	97.447	ug/l		100
65) Chlorobenzene	10.073	112	436565	99.694	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	144793	102.728	ug/l		100
67) Ethyl Benzene	10.189	91	784184	101.477	ug/l		100
68) m/p-Xylenes	10.299	106	575559	201.907	ug/l		99
69) o-Xylene	10.640	106	281830	98.530	ug/l		100
70) Styrene	10.653	104	473403	102.728	ug/l		99
71) Bromoform	10.799	173	112371	106.827	ug/l	#	99
73) Isopropylbenzene	10.957	105	719923	97.854	ug/l		99
74) N-amyl acetate	10.842	43	345193	103.687	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	238529	94.351	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	265118	130.869	ug/l		82
77) Bromobenzene	11.195	156	163845	98.230	ug/l		100
78) n-propylbenzene	11.299	91	858793	101.132	ug/l		100
79) 2-Chlorotoluene	11.360	91	497149	95.257	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	584885	97.966	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	83483	106.006	ug/l		98
82) 4-Chlorotoluene	11.451	91	569510	98.634	ug/l		100
83) tert-Butylbenzene	11.713	119	591396	97.917	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	588385	99.851	ug/l		99
85) sec-Butylbenzene	11.890	105	749534	100.219	ug/l		99
86) p-Isopropyltoluene	12.006	119	607577	101.019	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	303851	99.061	ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	303417	97.830	ug/l		99
89) n-Butylbenzene	12.329	91	583634	109.686	ug/l		100
90) Hexachloroethane	12.536	117	117533	104.365	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	293151	97.244	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	47745	103.477	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	193214	105.921	ug/l		99
94) Hexachlorobutadiene	13.725	225	74605	103.024	ug/l		99
95) Naphthalene	13.774	128	689104	104.505	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	190534	103.659	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

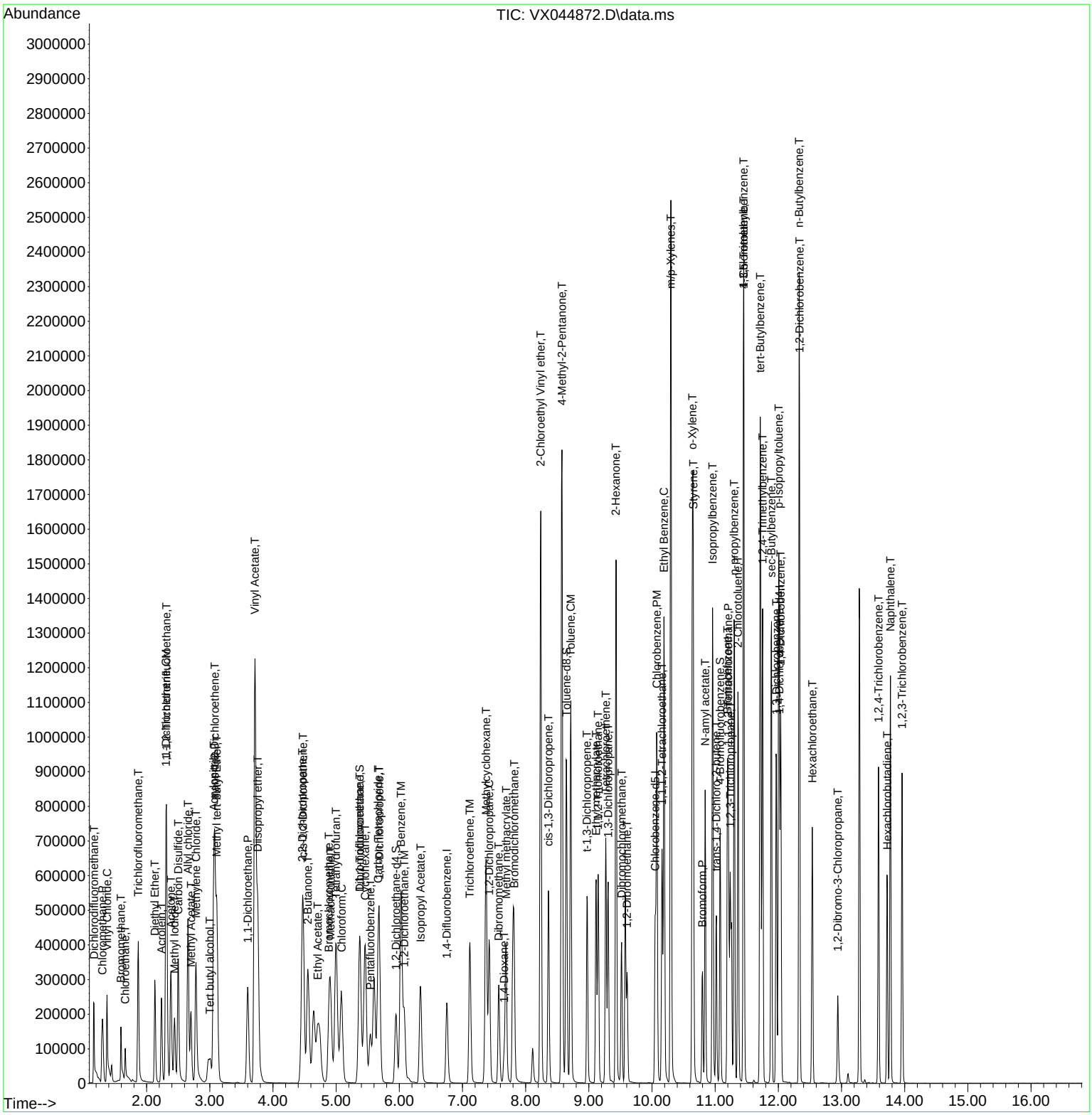
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

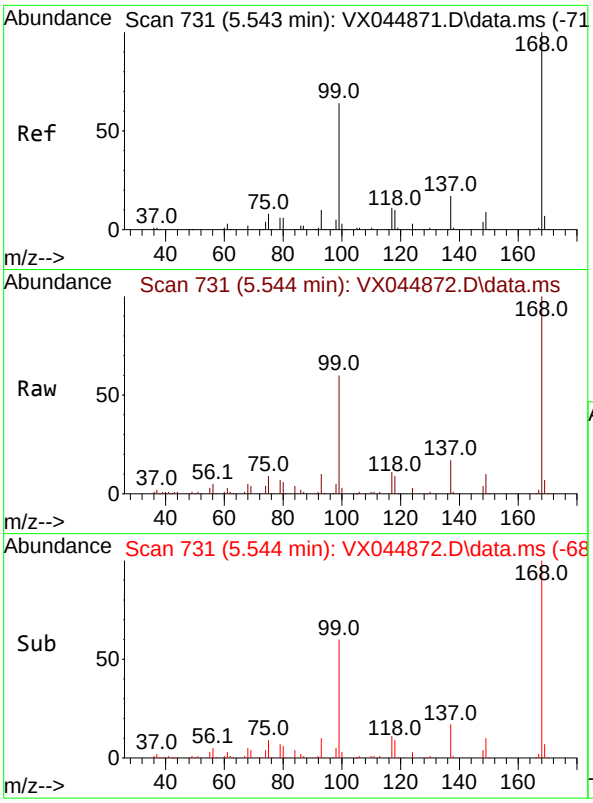
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



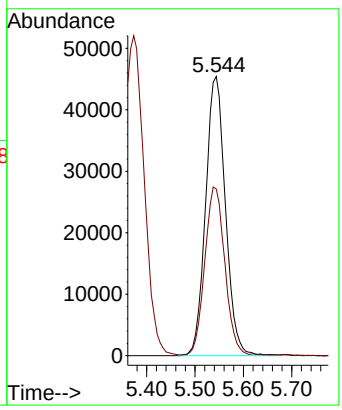


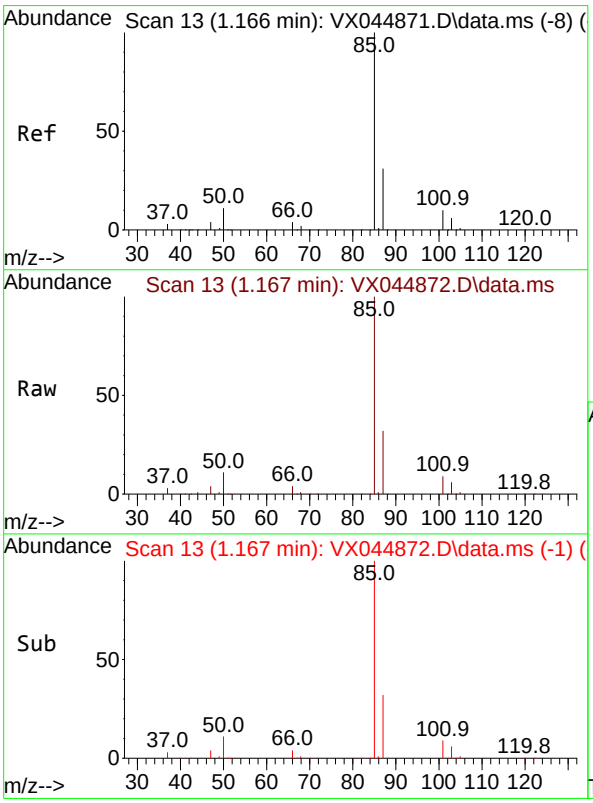
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 129508

Ion	Ratio	Lower	Upper
168	100		
99	59.4	51.2	76.8

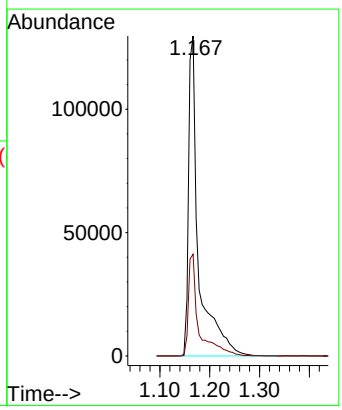


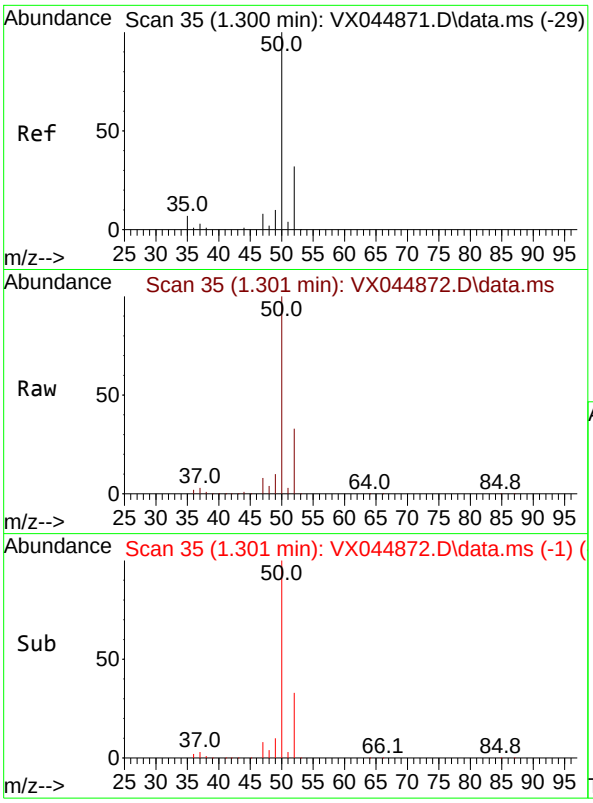


#2
Dichlorodifluoromethane
Concen: 100.632 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 85 Resp: 182788

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3



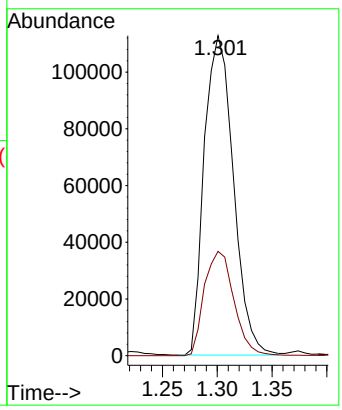


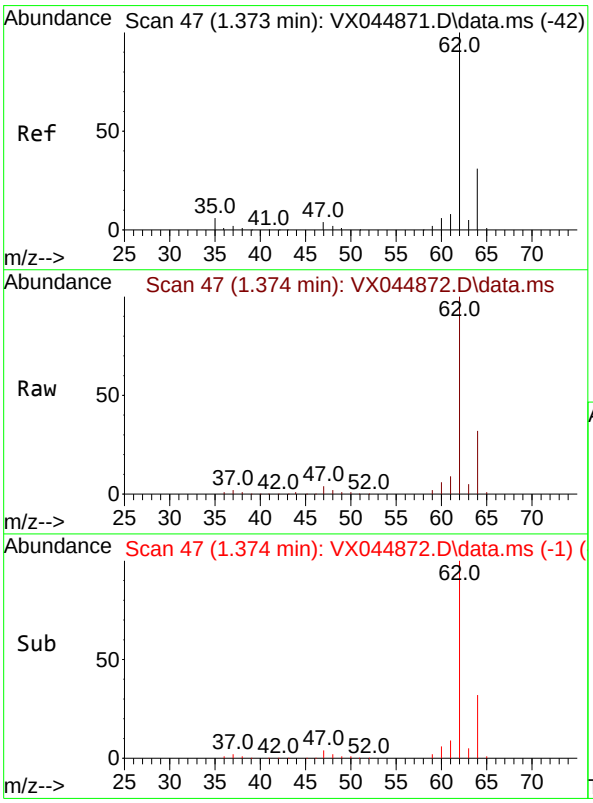
#3
Chloromethane
Concen: 94.275 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 208416

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.9	38.9

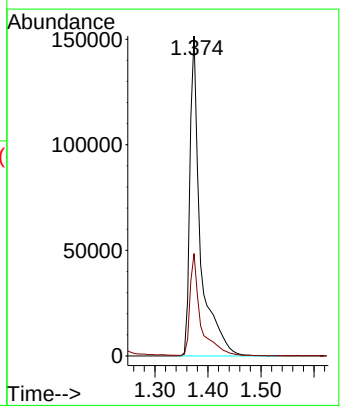


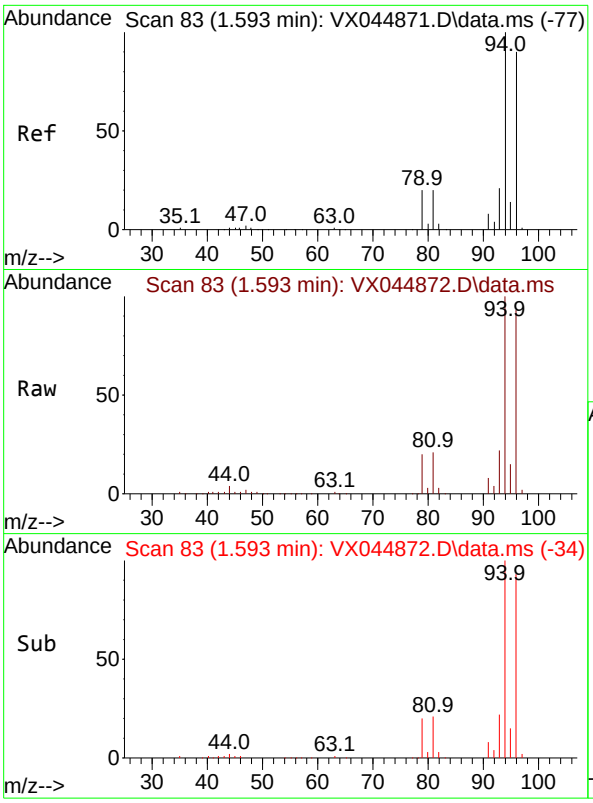


#4
Vinyl Chloride
Concen: 97.593 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 209017

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.4	38.0



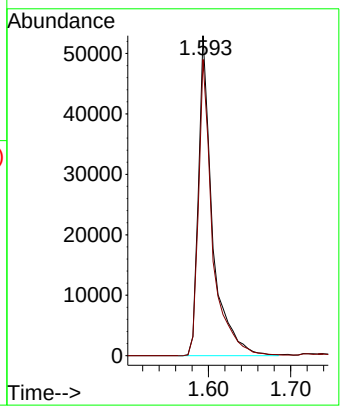


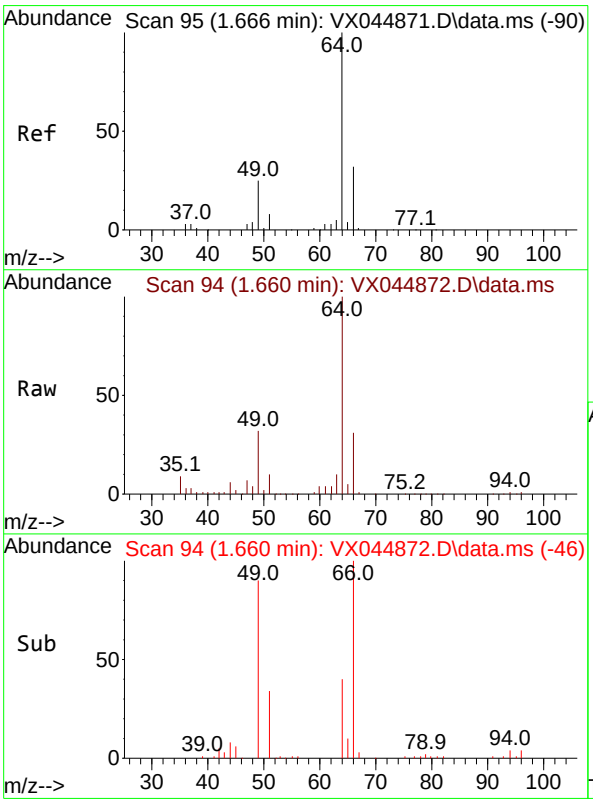
#5
Bromomethane
Concen: 97.984 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 62797

Ion	Ratio	Lower	Upper
94	100		
96	92.6	71.6	107.4

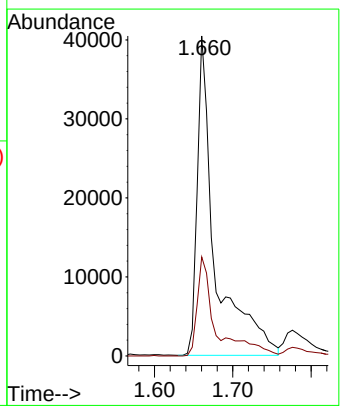


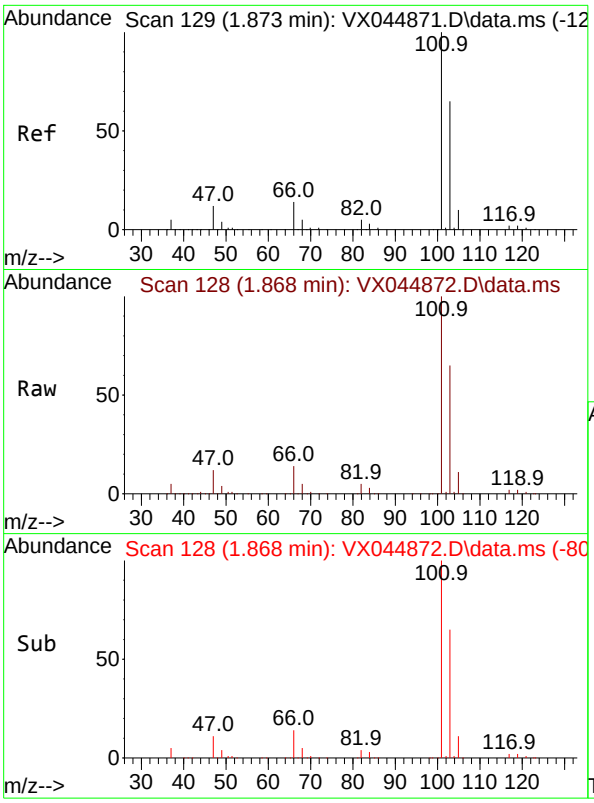


#6
Chloroethane
Concen: 100.253 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 64 Resp: 64581

Ion	Ratio	Lower	Upper
64	100		
66	31.0	25.9	38.9



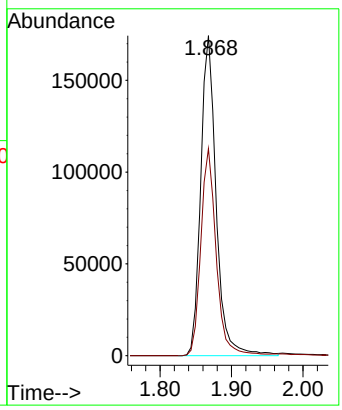


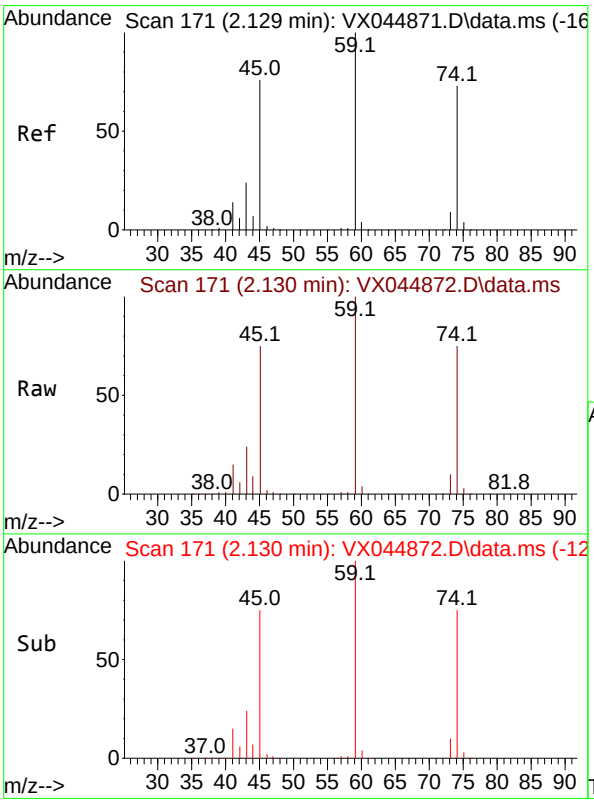
#7
Trichlorofluoromethane
Concen: 96.865 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 262354

Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.4	78.6

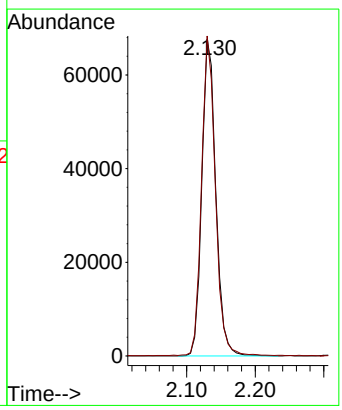


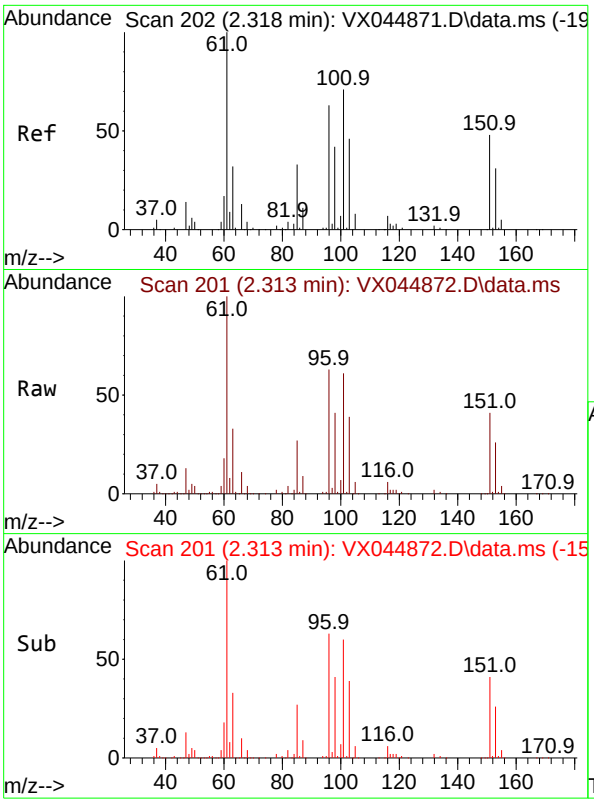


#8
Diethyl Ether
Concen: 97.647 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 74 Resp: 95914

Ion	Ratio	Lower	Upper
74	100		
45	99.5	51.1	153.4



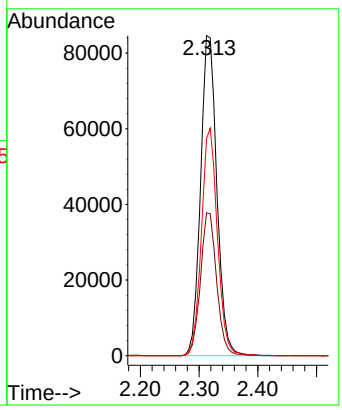


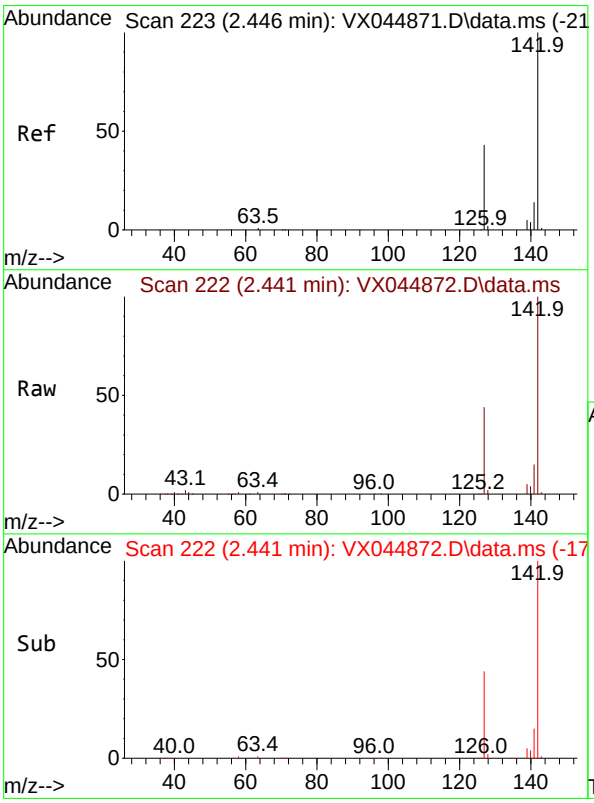
#9
1,1,2-Trichlorotrifluoroethane
Concen: 99.860 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 163414

Ion	Ratio	Lower	Upper
101	100		
85	44.3	35.7	53.5
151	69.8	56.0	84.0

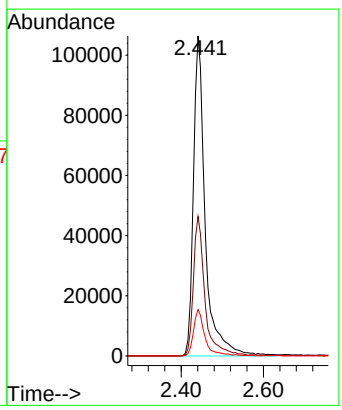


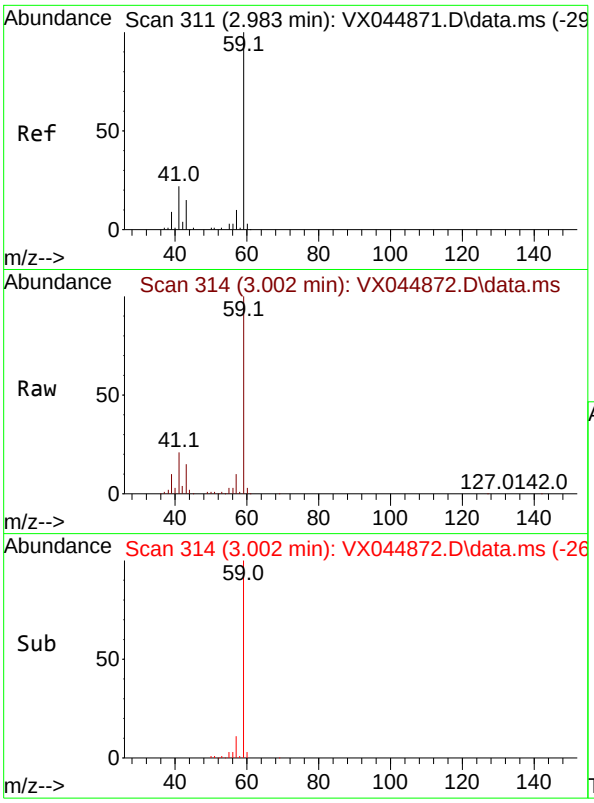


#10
Methyl Iodide
Concen: 100.016 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:142 Resp: 212118

Ion	Ratio	Lower	Upper
142	100		
127	42.5	34.3	51.5
141	14.1	11.4	17.2



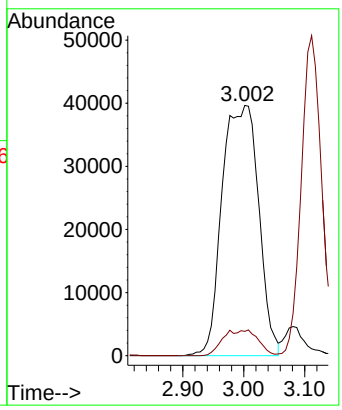


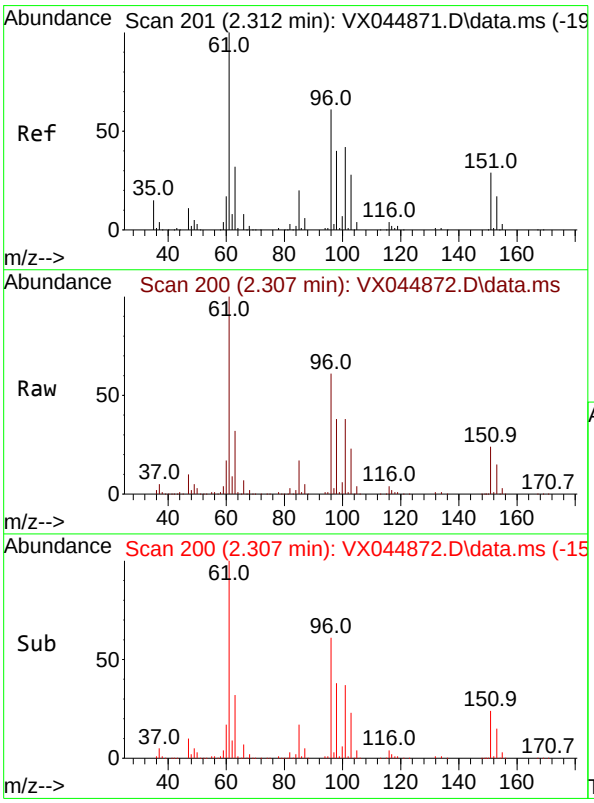
#11
Tert butyl alcohol
Concen: 469.903 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.019 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 165263

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#

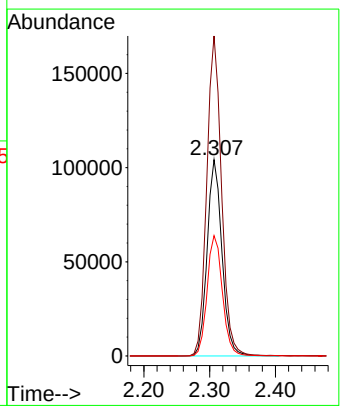


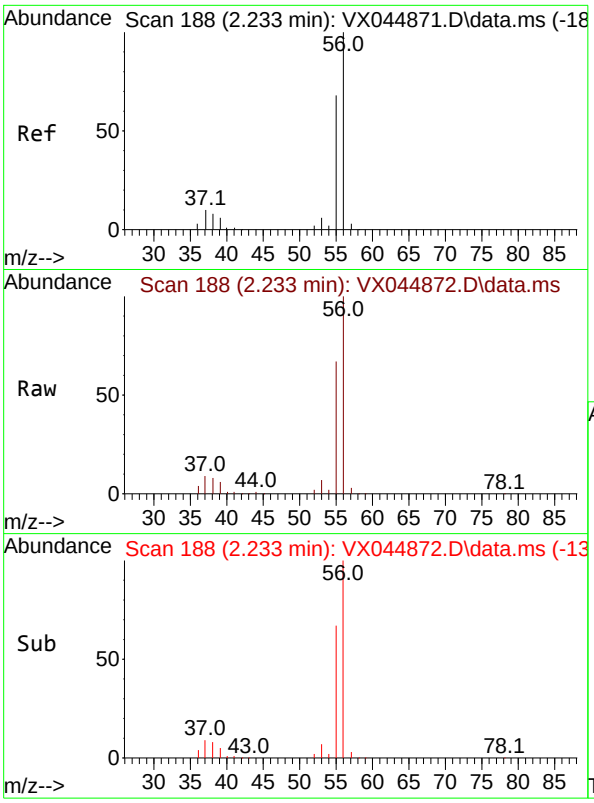


#12
1,1-Dichloroethene
Concen: 98.004 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 96 Resp: 163593

Ion	Ratio	Lower	Upper
96	100		
61	162.9	130.2	195.4
98	61.3	52.2	78.4



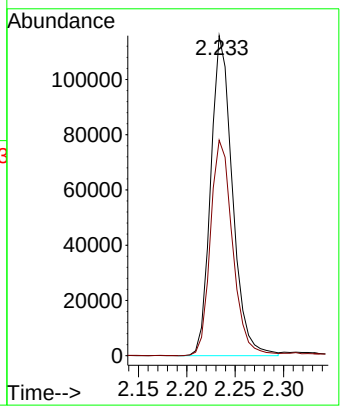


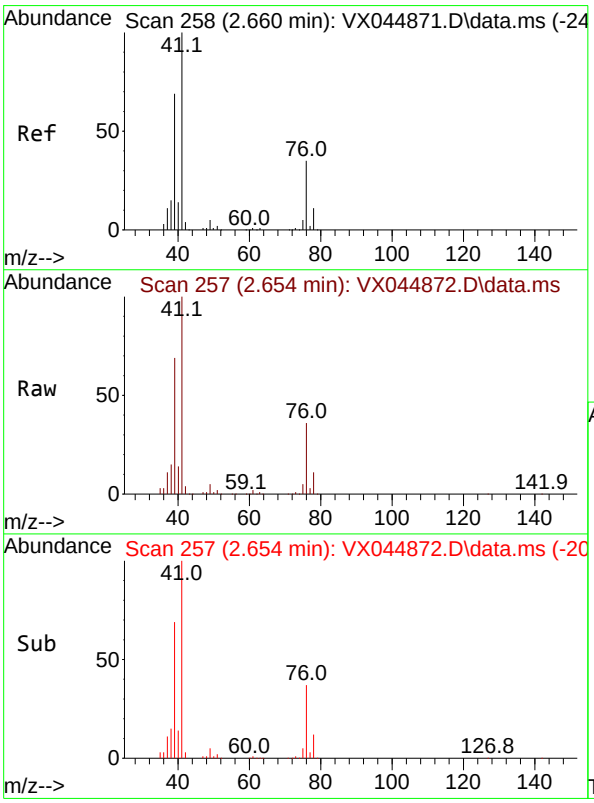
#13
Acrolein
Concen: 497.628 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 180570

Ion	Ratio	Lower	Upper
56	100		
55	68.9	55.7	83.5

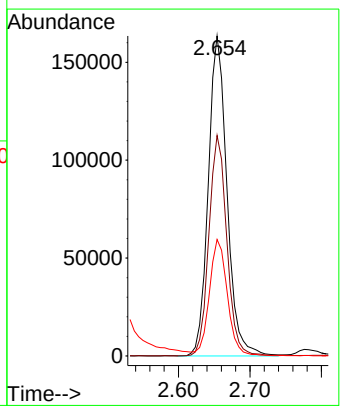


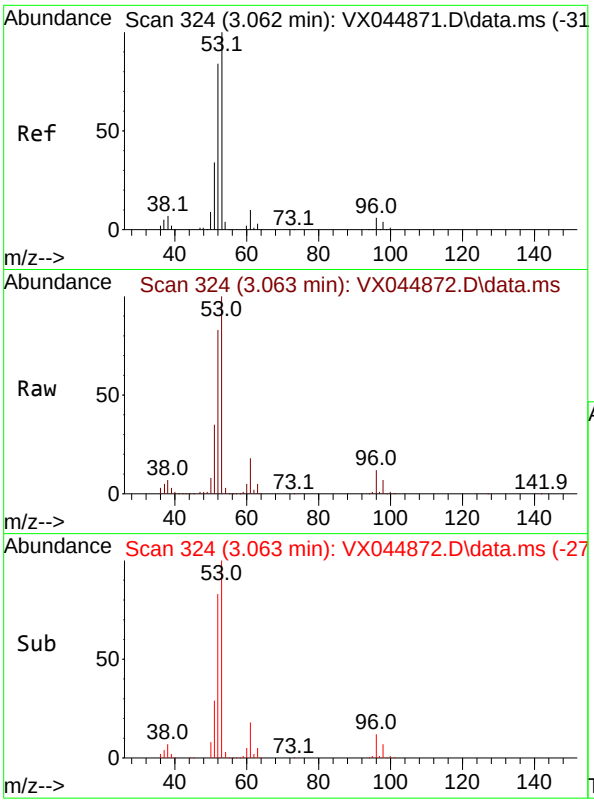


#14
Allyl chloride
Concen: 98.624 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 297526

Ion	Ratio	Lower	Upper
41	100		
39	65.6	51.4	77.2
76	34.9	27.0	40.4



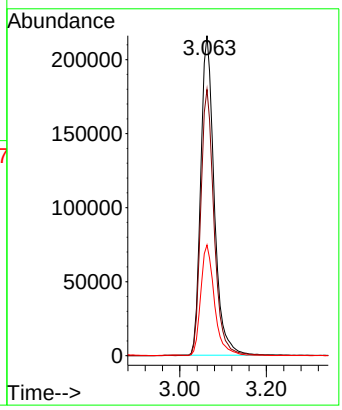


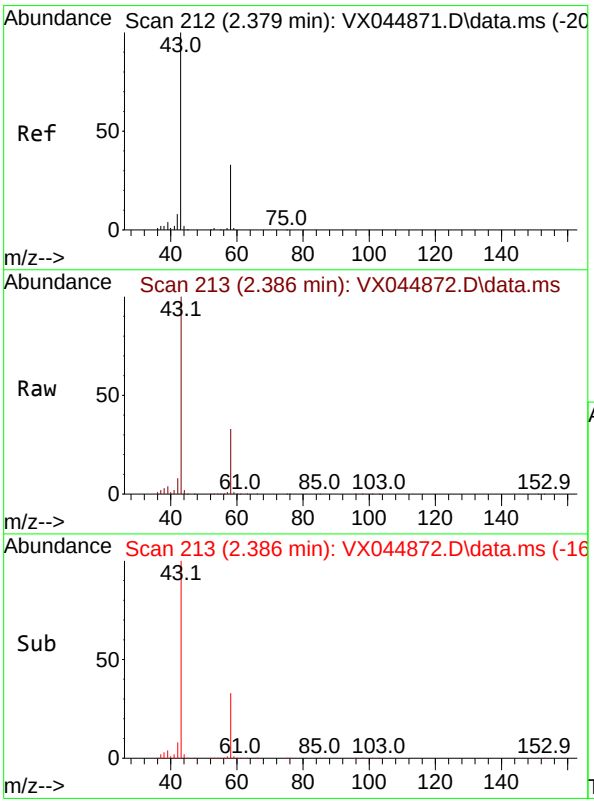
#15
Acrylonitrile
Concen: 497.173 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 466855

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.0	97.6
51	34.9	28.0	42.0

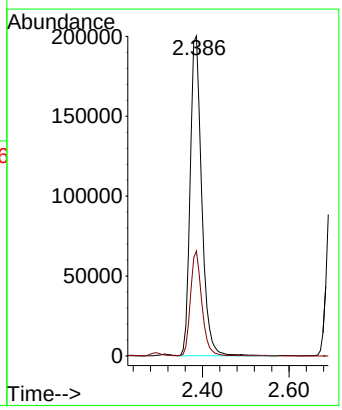


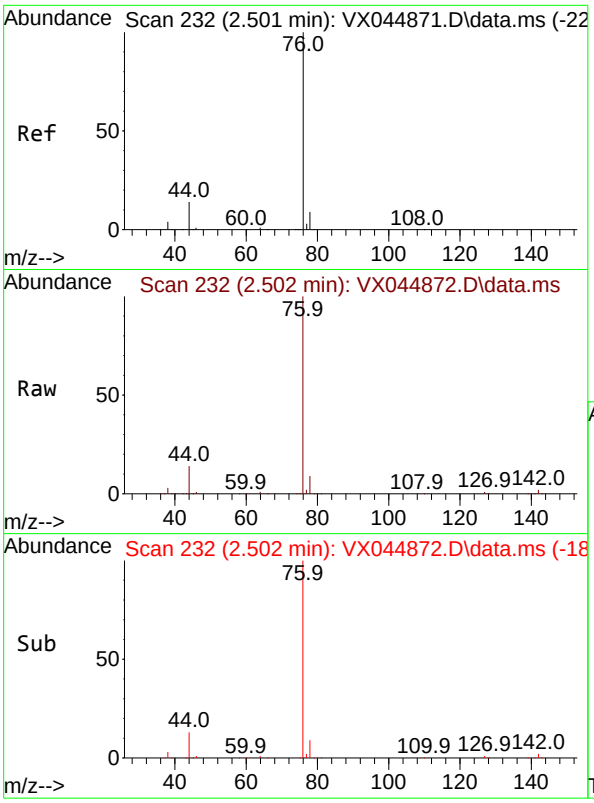


#16
Acetone
Concen: 485.125 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.007 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 369720

Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.5	39.7



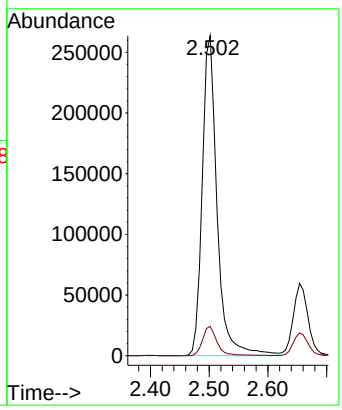


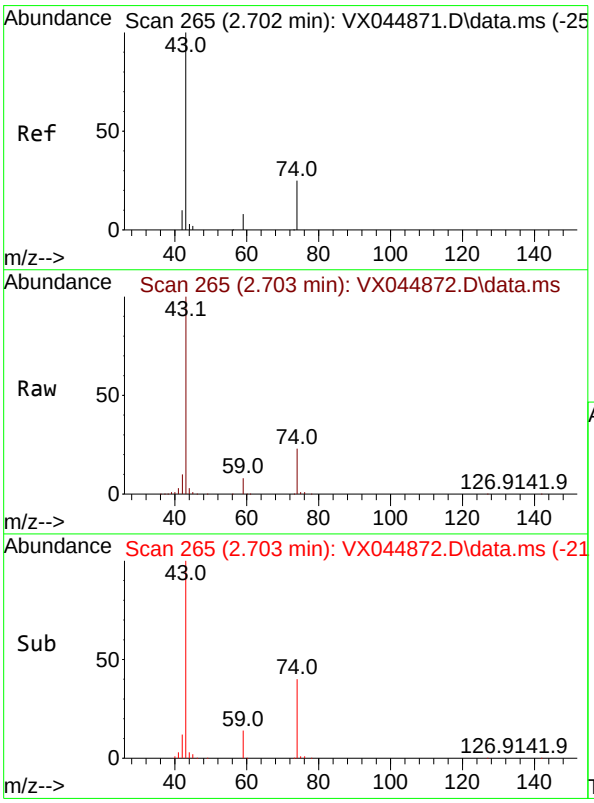
#17
Carbon Disulfide
Concen: 101.216 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 463308

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4

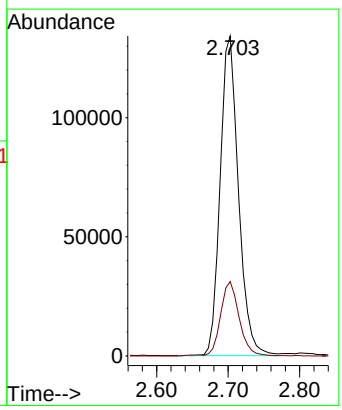


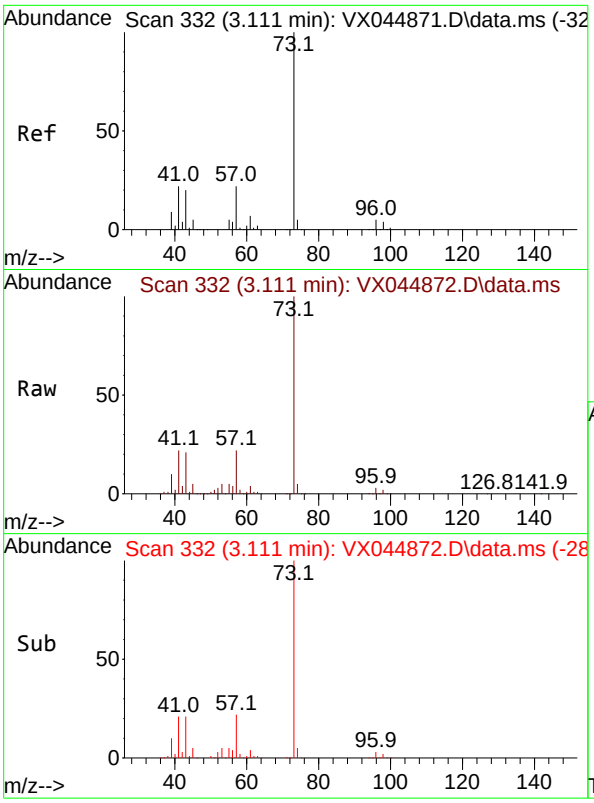


#18
Methyl Acetate
Concen: 99.249 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 238689

Ion	Ratio	Lower	Upper
43	100		
74	23.8	18.9	28.3



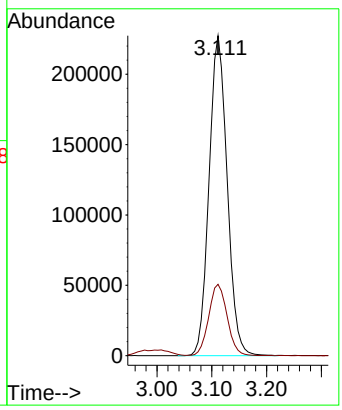


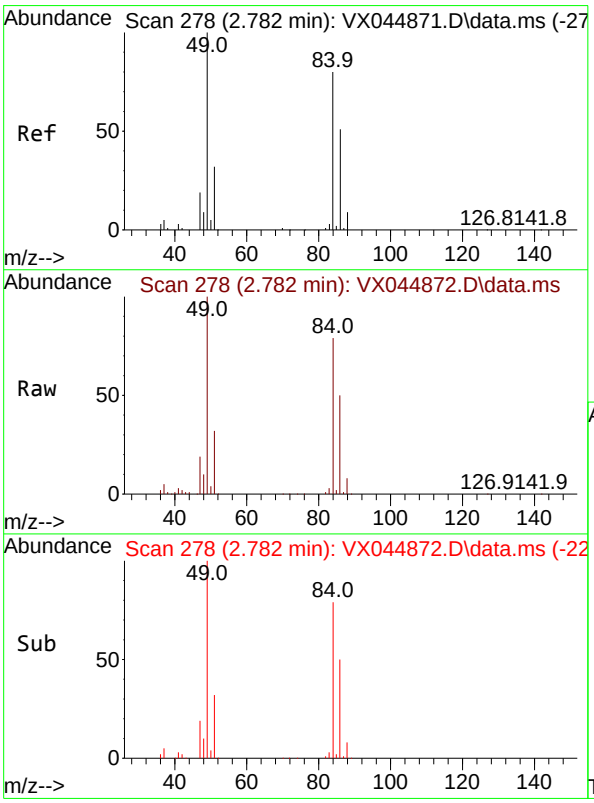
#19
Methyl tert-butyl Ether
Concen: 98.098 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 521003

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9

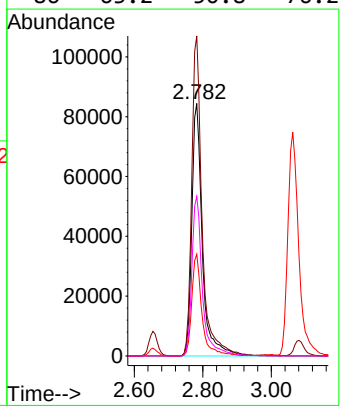


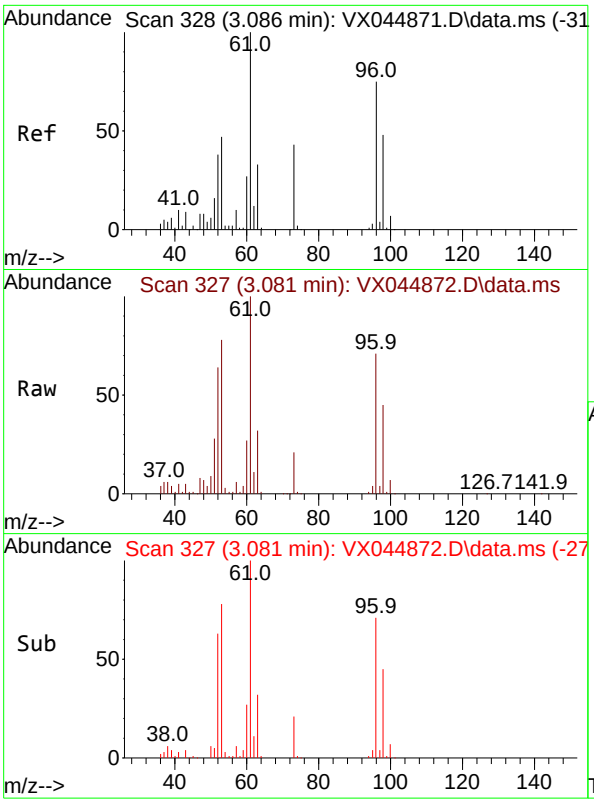


#20
Methylene Chloride
Concen: 96.490 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 84 Resp: 180120

Ion	Ratio	Lower	Upper
84	100		
49	126.7	100.1	150.1
51	40.3	31.7	47.5
86	63.2	50.8	76.2



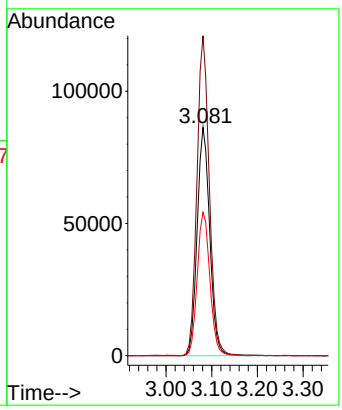


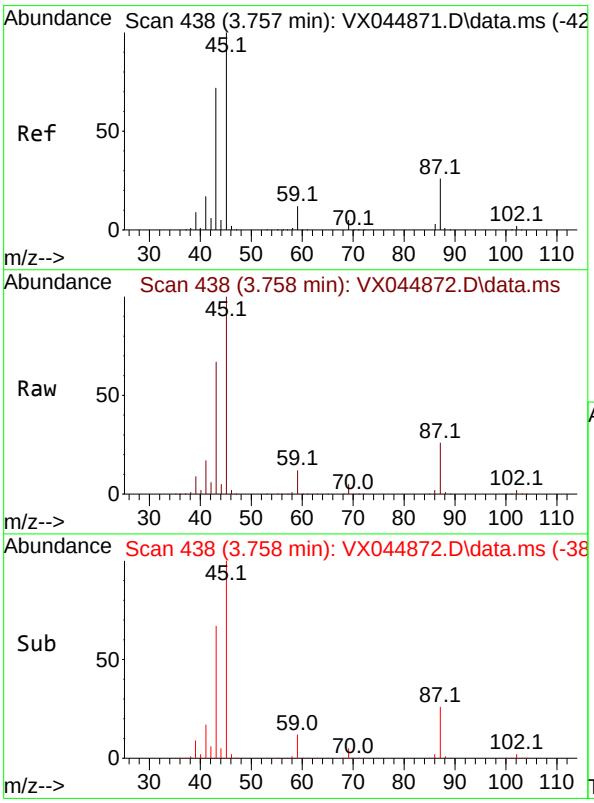
#21
trans-1,2-Dichloroethene
Concen: 99.864 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 164067

Ion	Ratio	Lower	Upper
96	100		
61	140.2	106.0	159.0
98	62.8	50.6	76.0

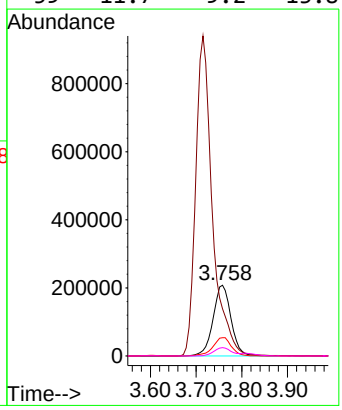


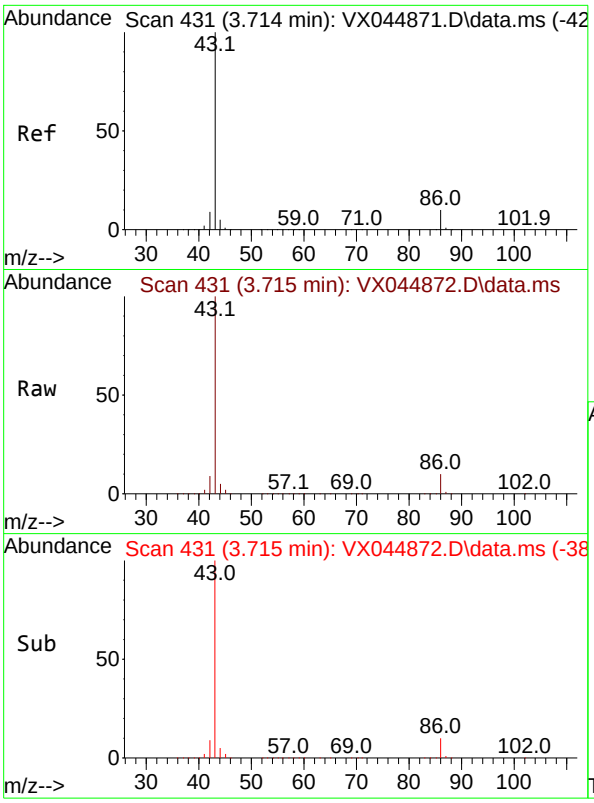


#22
Diisopropyl ether
Concen: 99.157 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 45 Resp: 565927

Ion	Ratio	Lower	Upper
45	100		
43	66.7	58.0	87.0
87	25.7	20.7	31.1
59	11.7	9.2	13.8



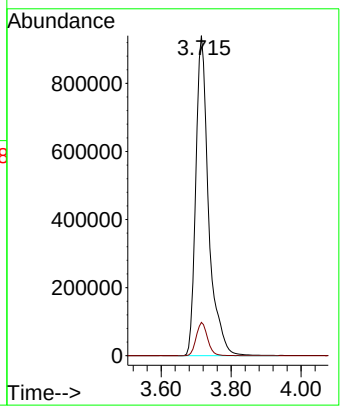


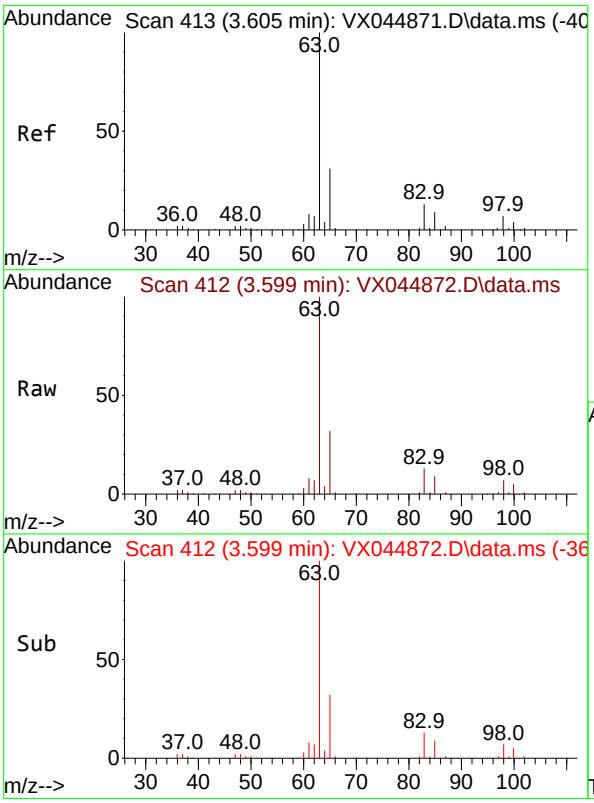
#23
Vinyl Acetate
Concen: 513.051 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2387200

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5

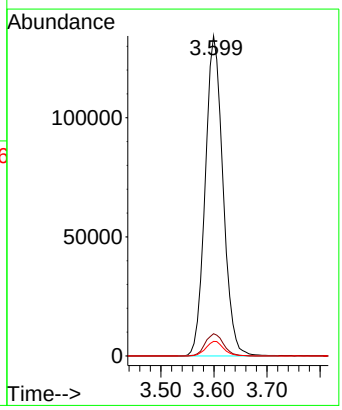


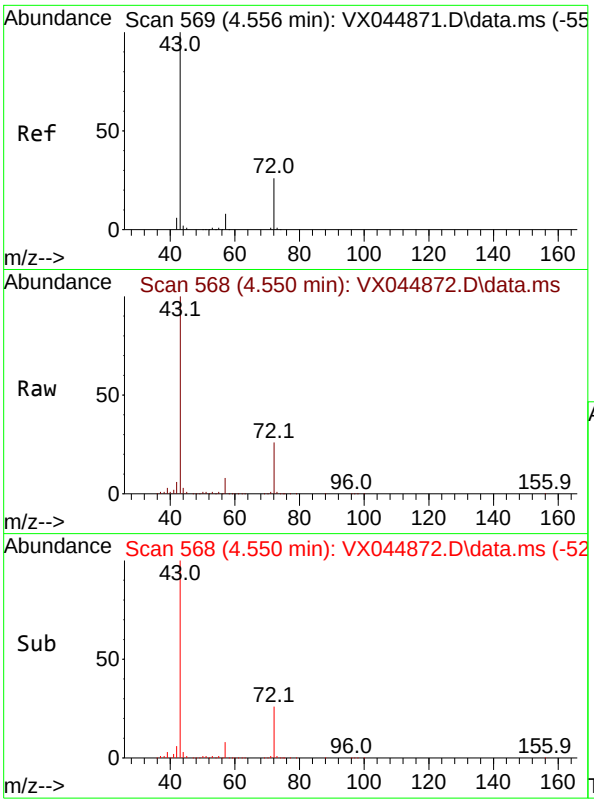


#24
1,1-Dichloroethane
Concen: 98.064 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 313164

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.5	2.1	6.5



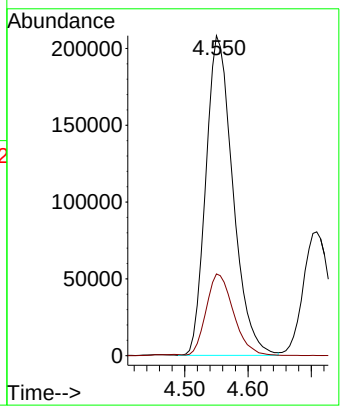


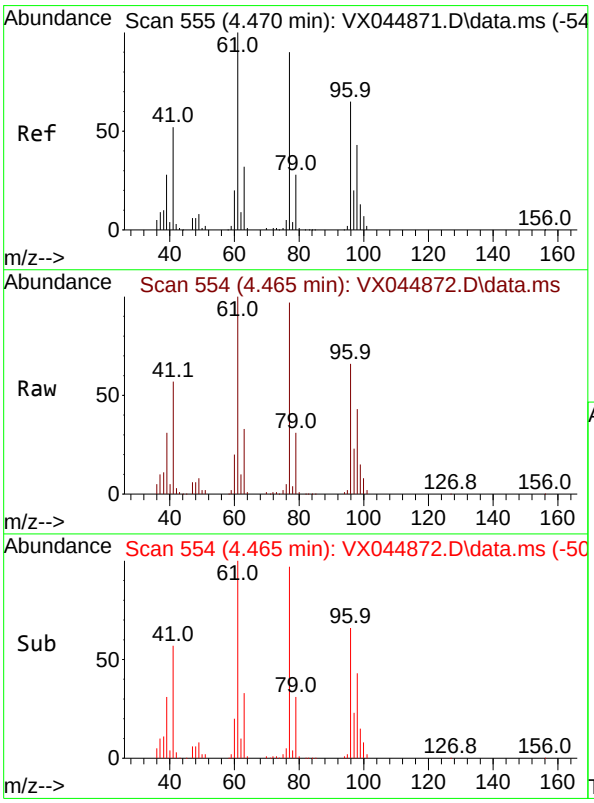
#25
2-Butanone
Concen: 498.801 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 617283

Ion	Ratio	Lower	Upper
43	100		
72	25.4	21.2	31.8

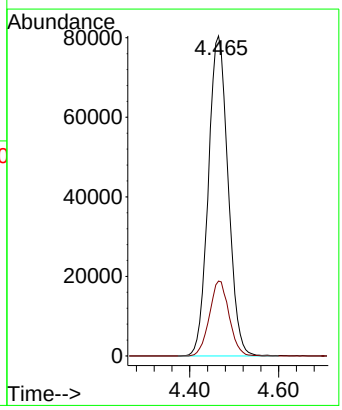


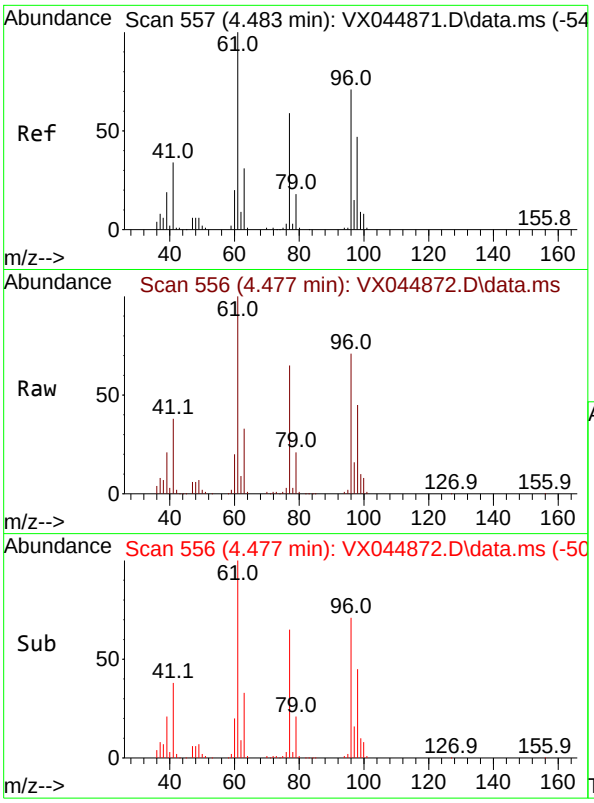


#26
2,2-Dichloropropane
Concen: 98.053 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 77 Resp: 248324

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.8	35.3



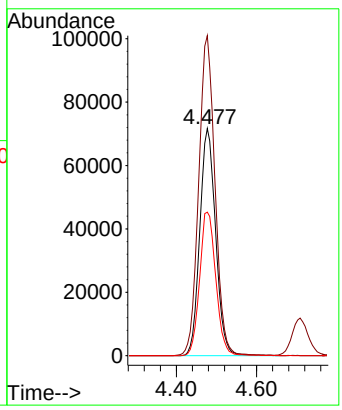


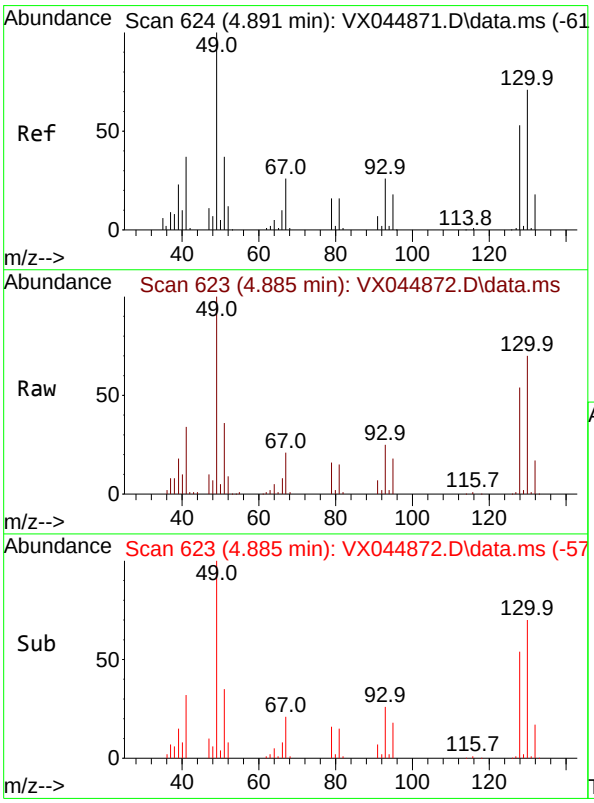
#27
cis-1,2-Dichloroethene
Concen: 99.513 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 196381

Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	294.0
98	64.6	0.0	131.2

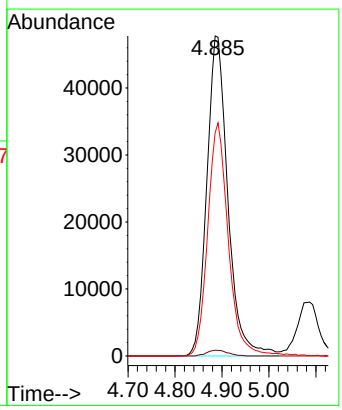


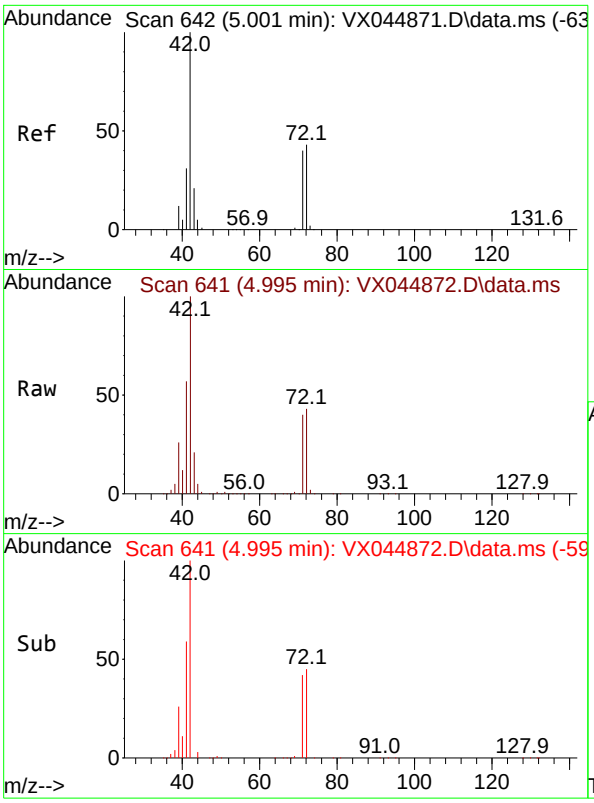


#28
Bromochloromethane
Concen: 96.524 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 49 Resp: 148137

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	71.1	56.7	85.1



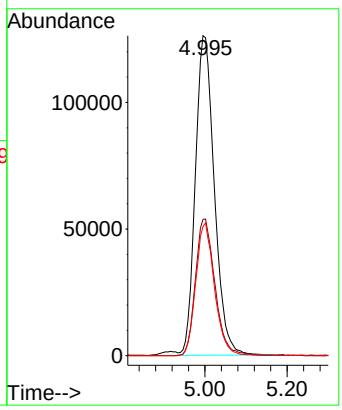


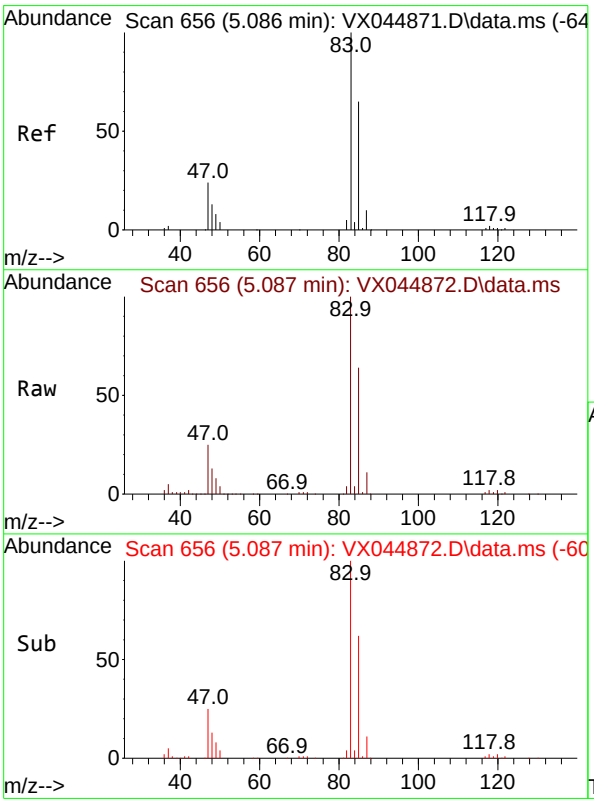
#29
Tetrahydrofuran
Concen: 493.104 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 405208

Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.0	52.4
71	40.8	32.6	48.8

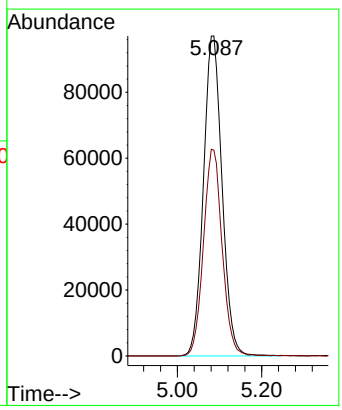


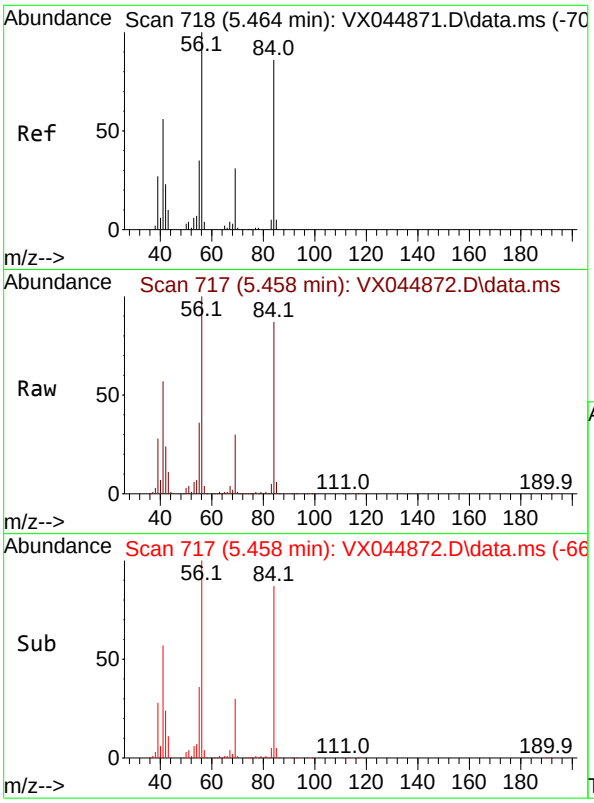


#30
Chloroform
Concen: 96.445 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 298690

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1



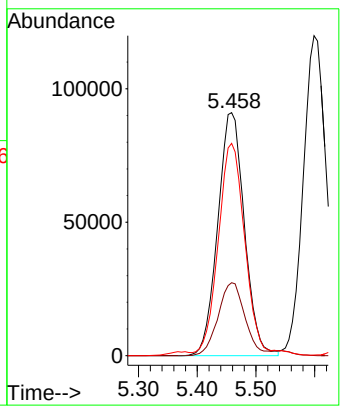


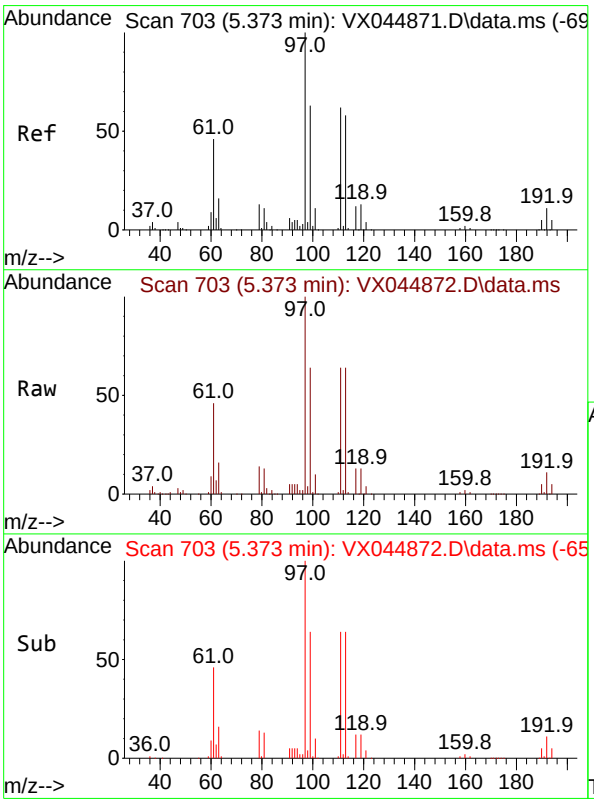
#31
Cyclohexane
Concen: 97.426 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 286830

Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	85.7	69.0	103.6

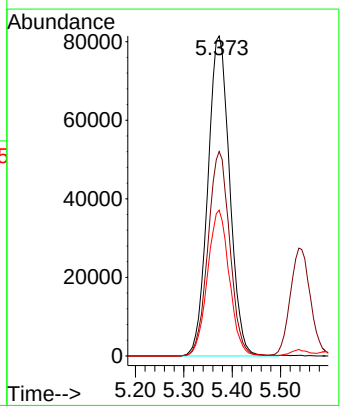


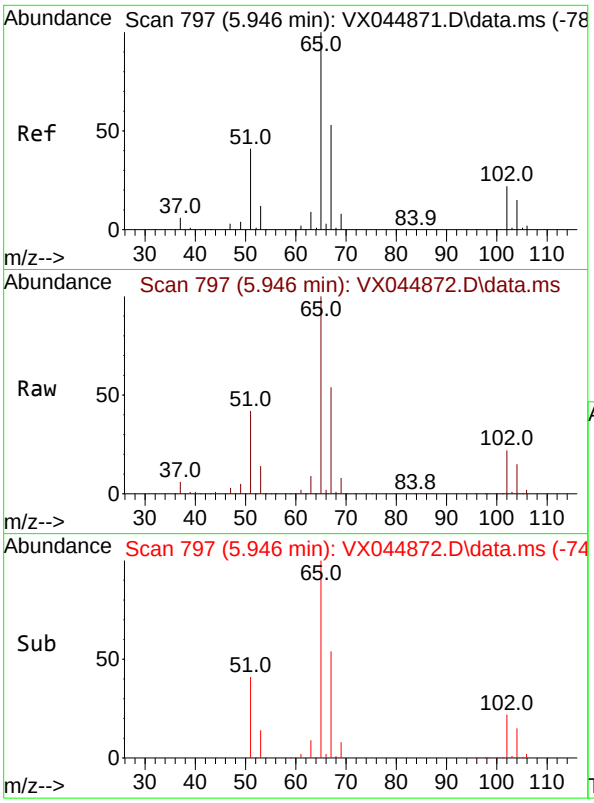


#32
1,1,1-Trichloroethane
Concen: 97.050 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 97 Resp: 254941

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.8	36.6	55.0



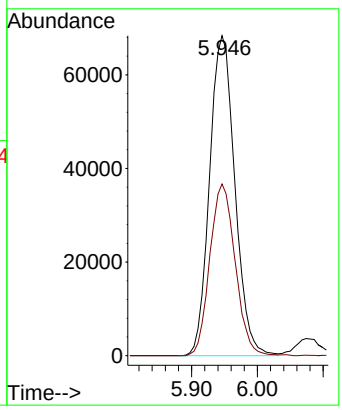


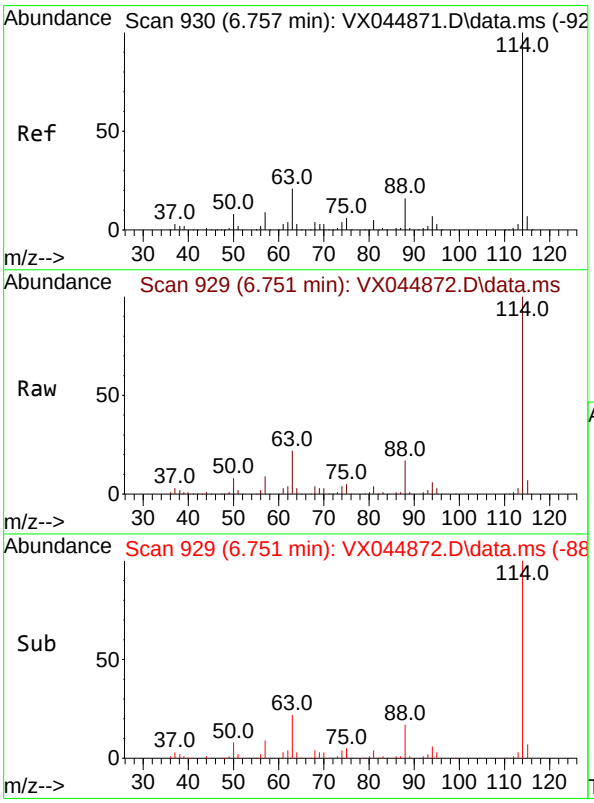
#33
1,2-Dichloroethane-d4
Concen: 96.580 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 183093

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	108.2

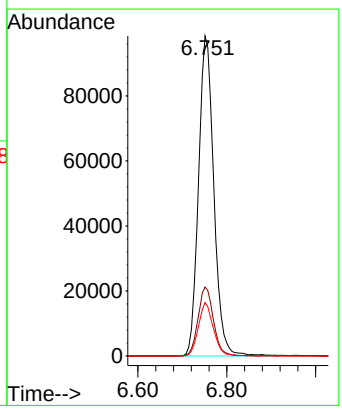


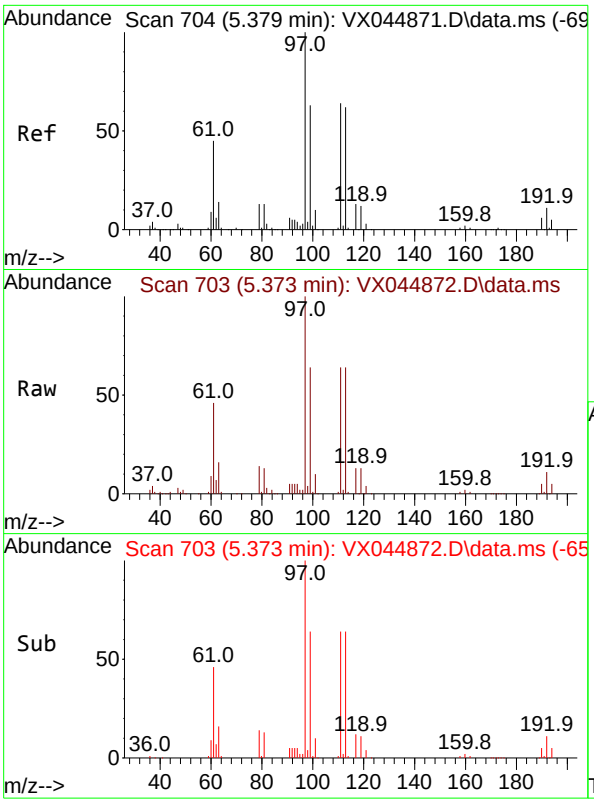


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:114 Resp: 236372

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.4
88	16.7	0.0	31.4



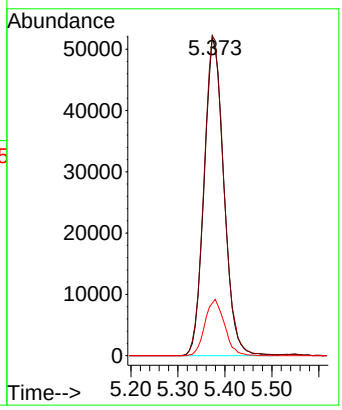


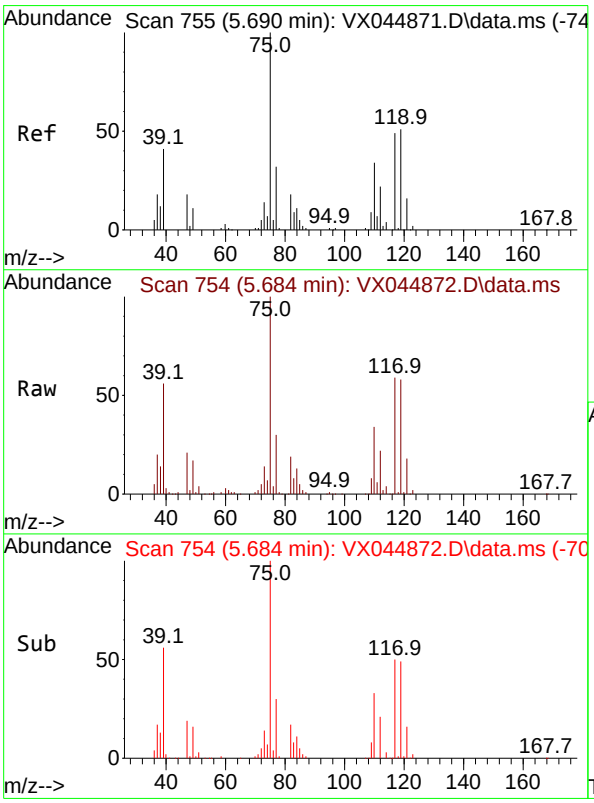
#35
Dibromofluoromethane
Concen: 98.404 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 151228

Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.5	125.3
192	17.6	14.4	21.6

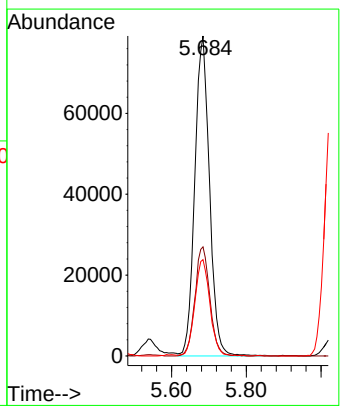


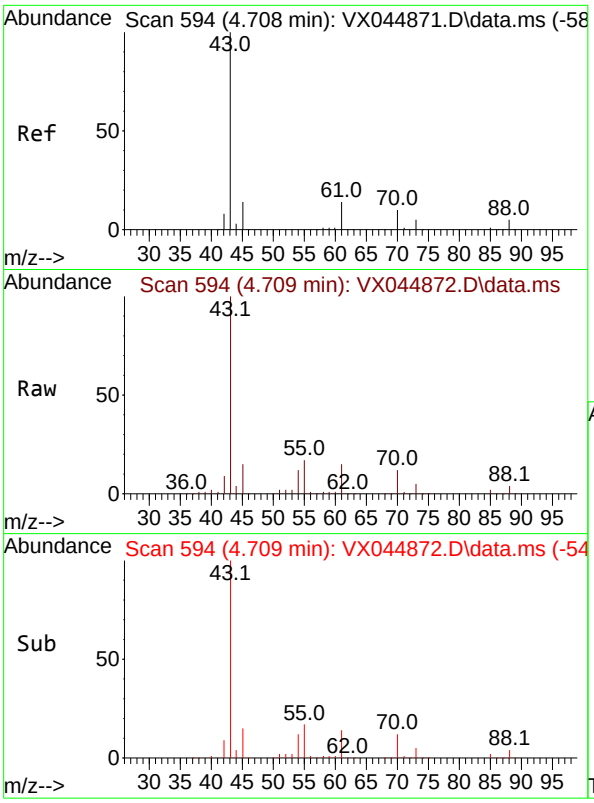


#36
1,1-Dichloropropene
Concen: 97.422 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 216005

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.9	24.6	37.0



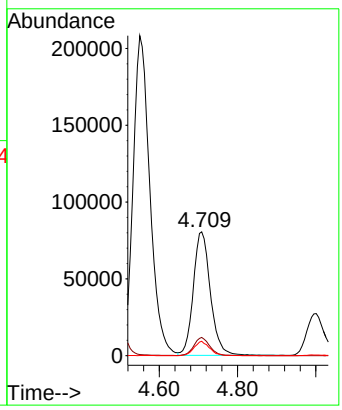


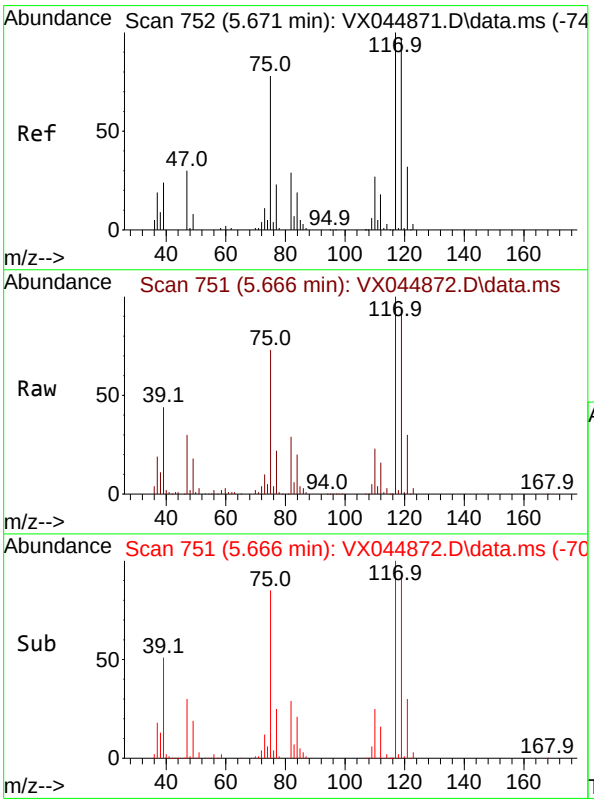
#37
Ethyl Acetate
Concen: 99.005 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 244164

Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.0	16.4
70	10.6	8.2	12.2

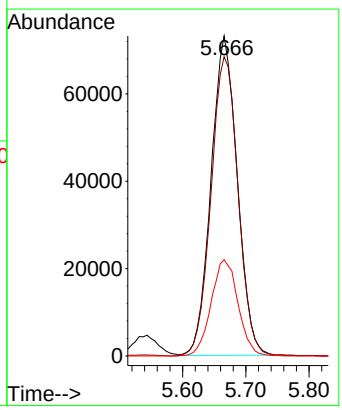


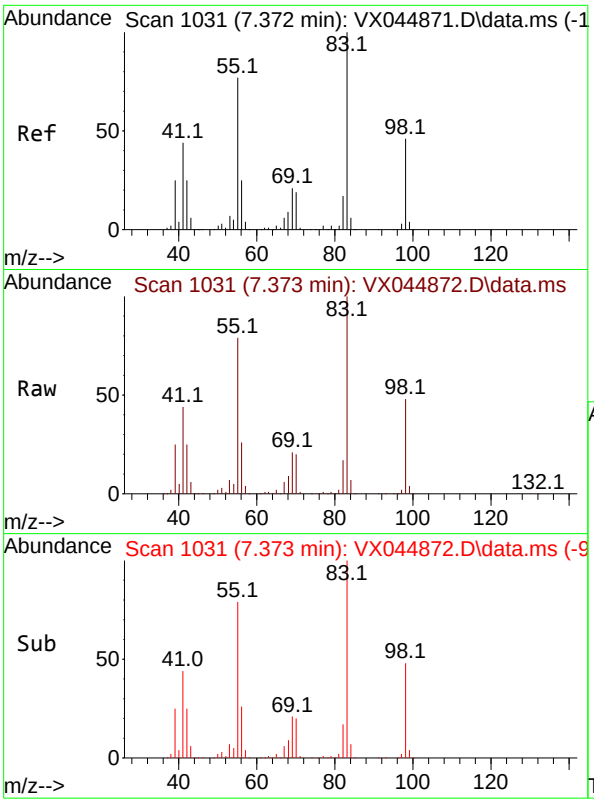


#38
Carbon Tetrachloride
Concen: 96.828 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 210381

Ion	Ratio	Lower	Upper
117	100		
119	93.6	77.5	116.3
121	30.2	25.6	38.4



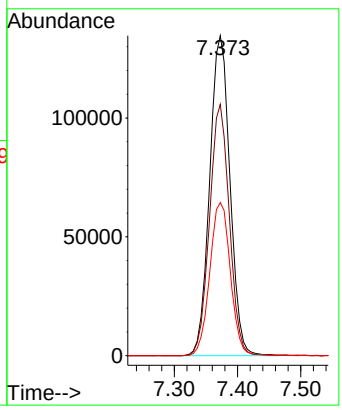


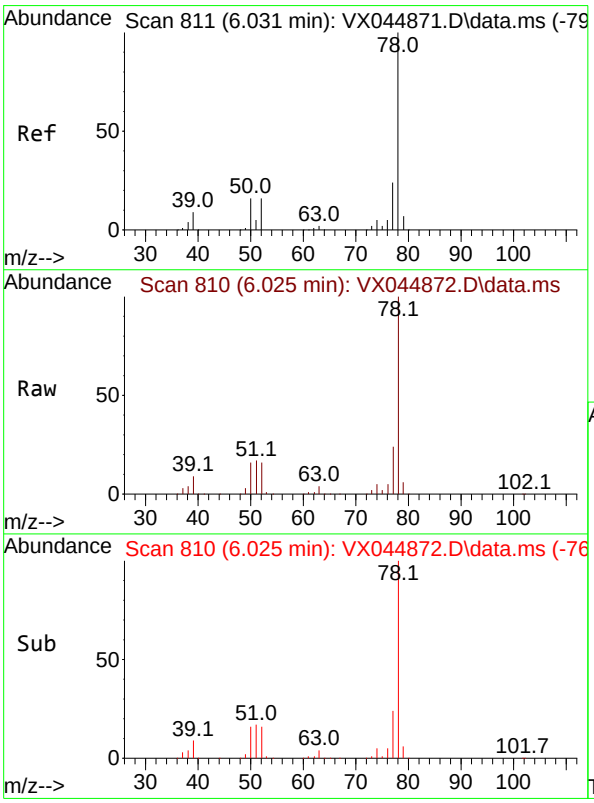
#39
Methylcyclohexane
Concen: 104.554 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 299703

Ion	Ratio	Lower	Upper
83	100		
55	78.5	61.3	91.9
98	47.8	37.0	55.6

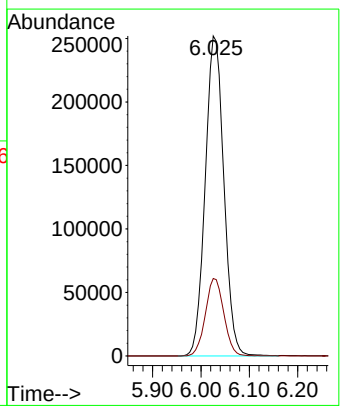


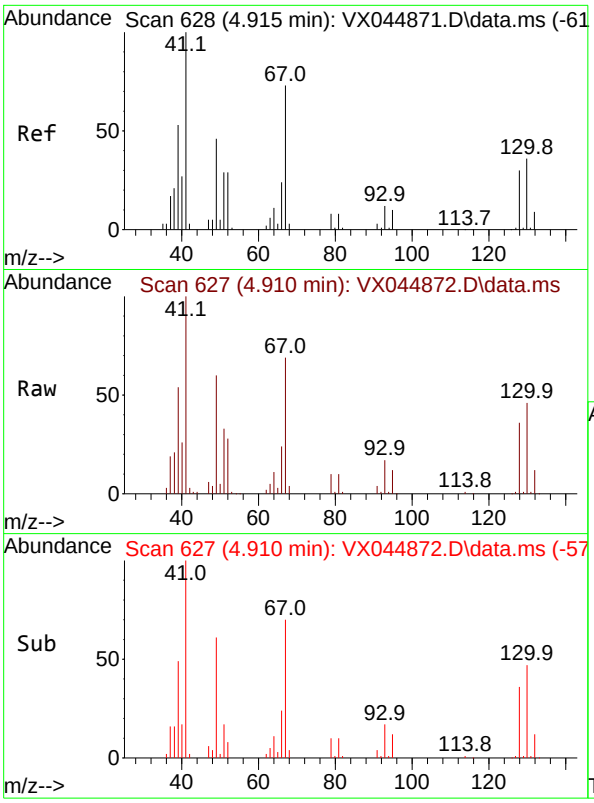


#40
Benzene
Concen: 97.576 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 78 Resp: 675556

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6



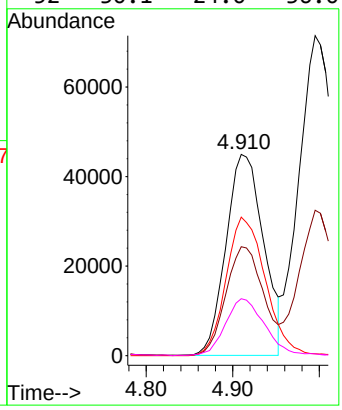


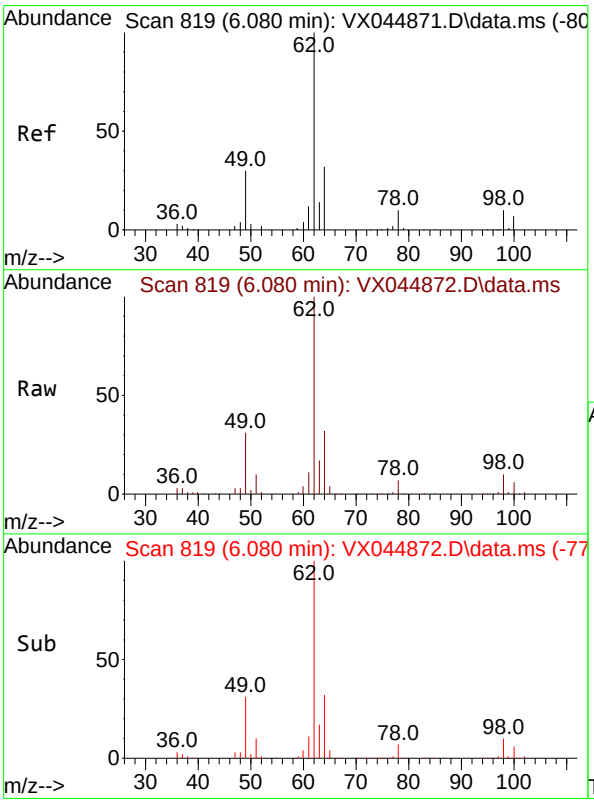
#41
Methacrylonitrile
Concen: 102.745 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 135629

Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.1	64.7
67	72.4	57.0	85.6
52	30.1	24.0	36.0

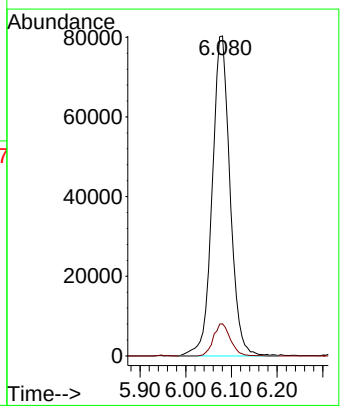


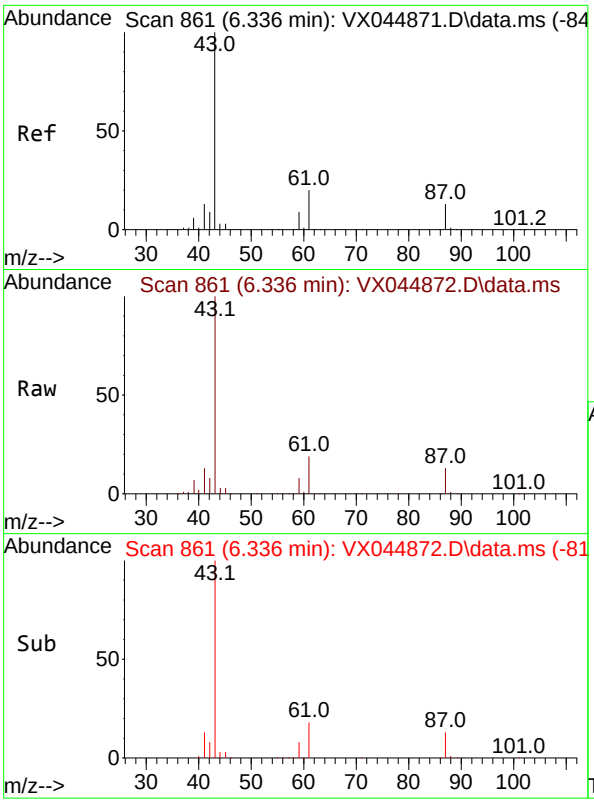


#42
1,2-Dichloroethane
Concen: 98.875 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 218174

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4



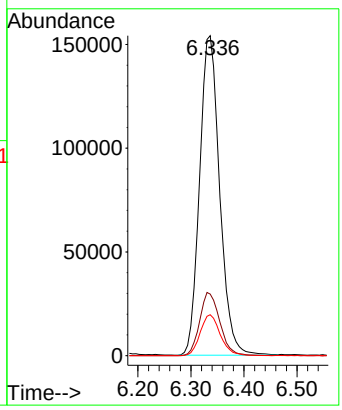


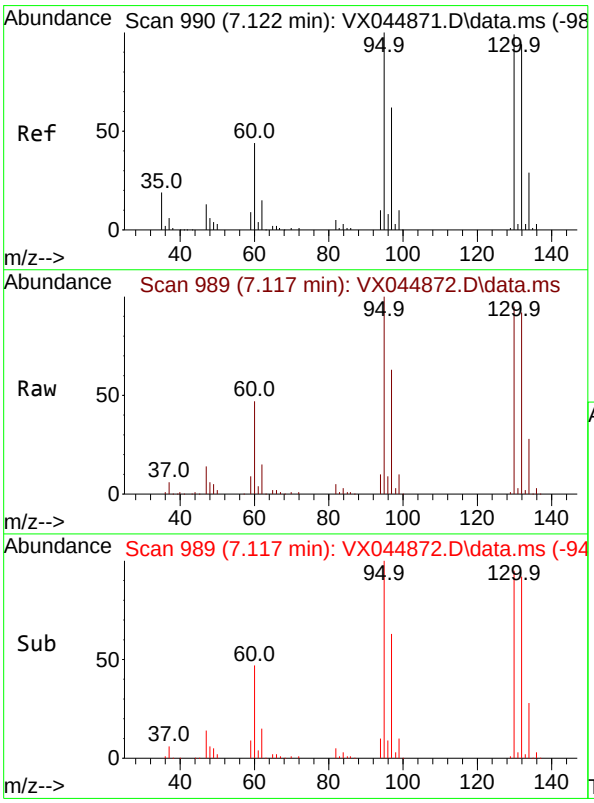
#43
Isopropyl Acetate
Concen: 101.818 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 405489

Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.8
87	12.8	10.0	15.0

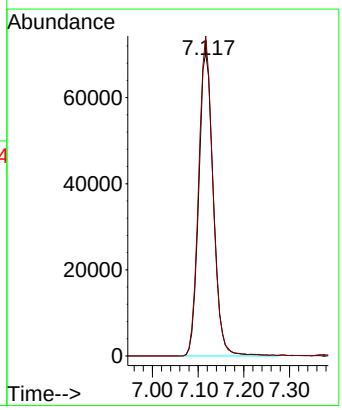


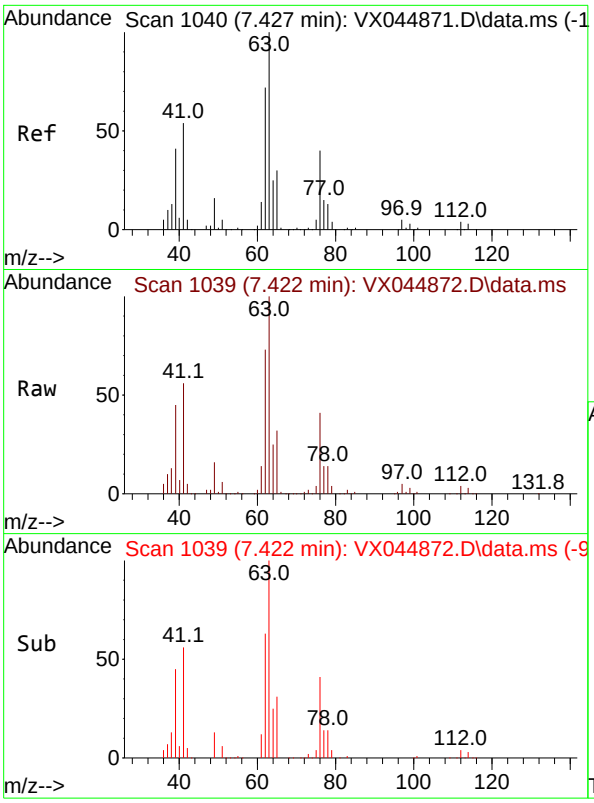


#44
Trichloroethene
Concen: 99.103 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:130 Resp: 156832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	202.4



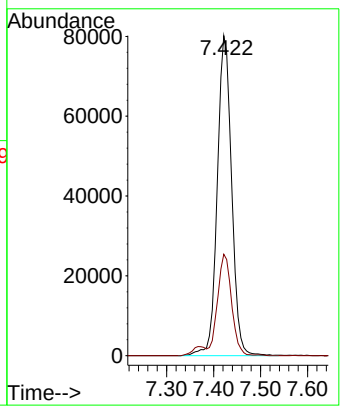


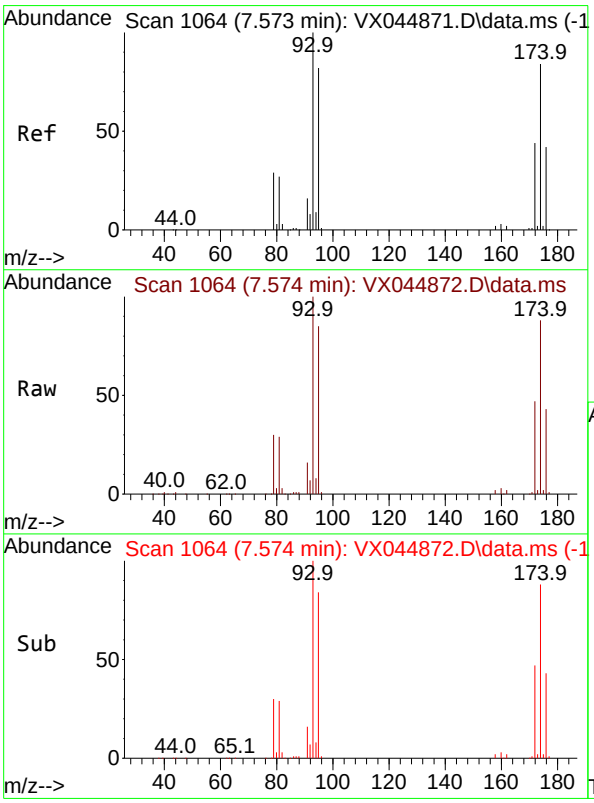
#45
1,2-Dichloropropane
Concen: 98.893 ug/l
RT: 7.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 170337

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.2	36.4

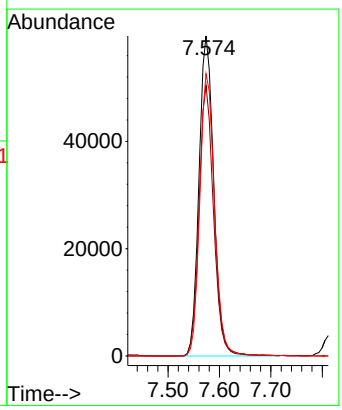


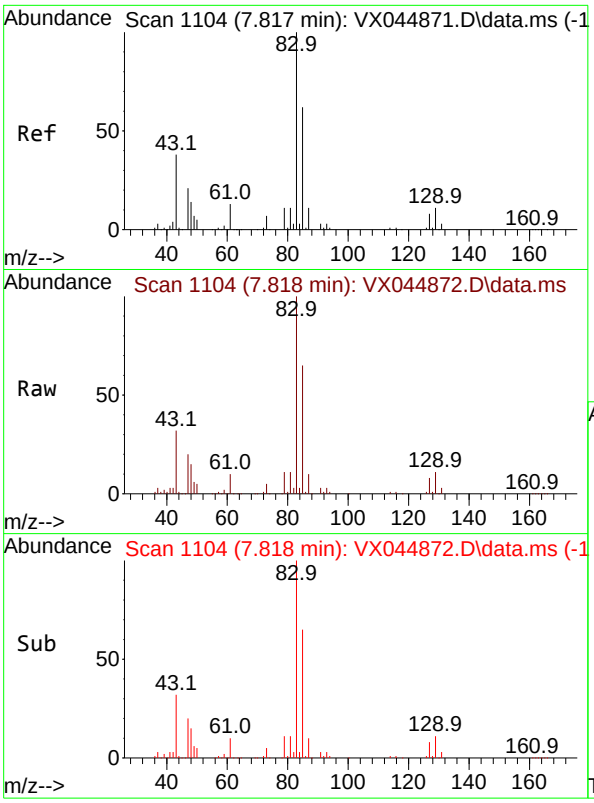


#46
Dibromomethane
Concen: 99.747 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 93 Resp: 119149

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.4
174	88.1	69.9	104.9



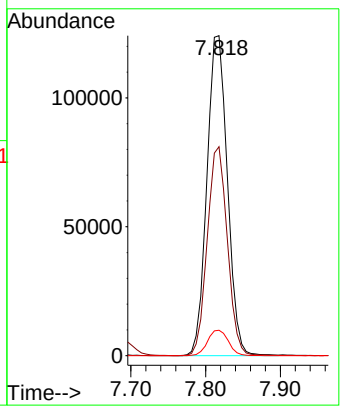


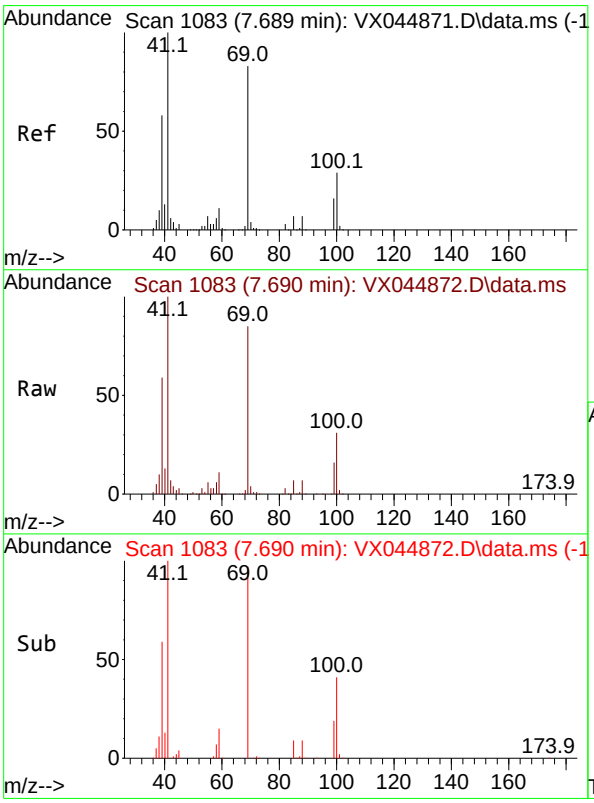
#47
Bromodichloromethane
Concen: 102.254 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 236506

Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.0	75.0
127	8.0	6.4	9.6

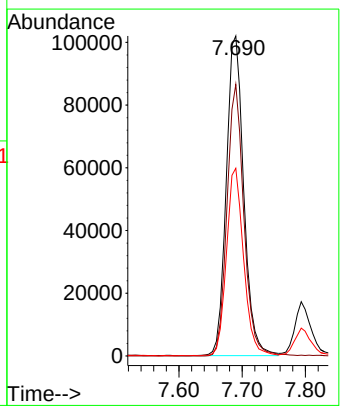


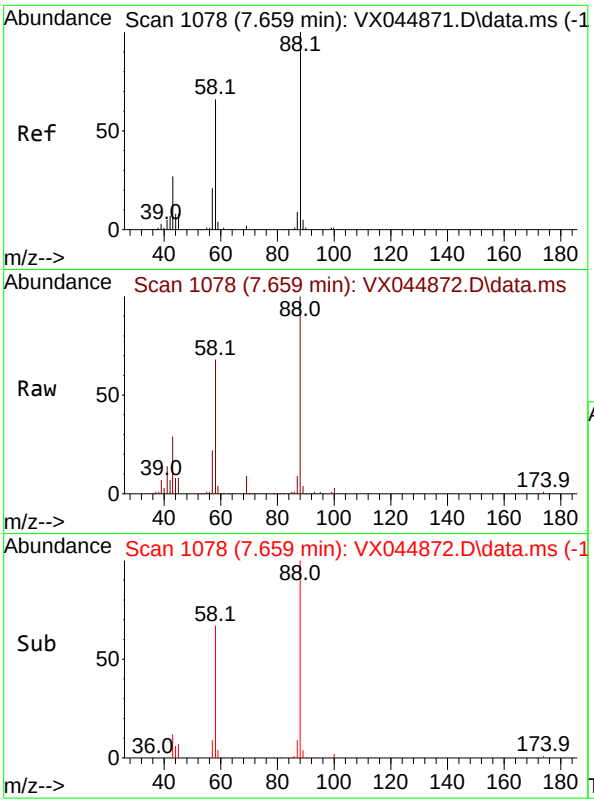


#48
Methyl methacrylate
Concen: 104.321 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 195892

Ion	Ratio	Lower	Upper
41	100		
69	82.1	65.8	98.8
39	57.3	46.4	69.6



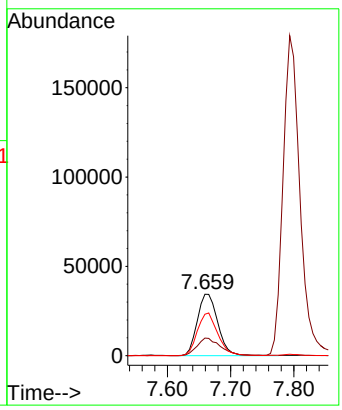


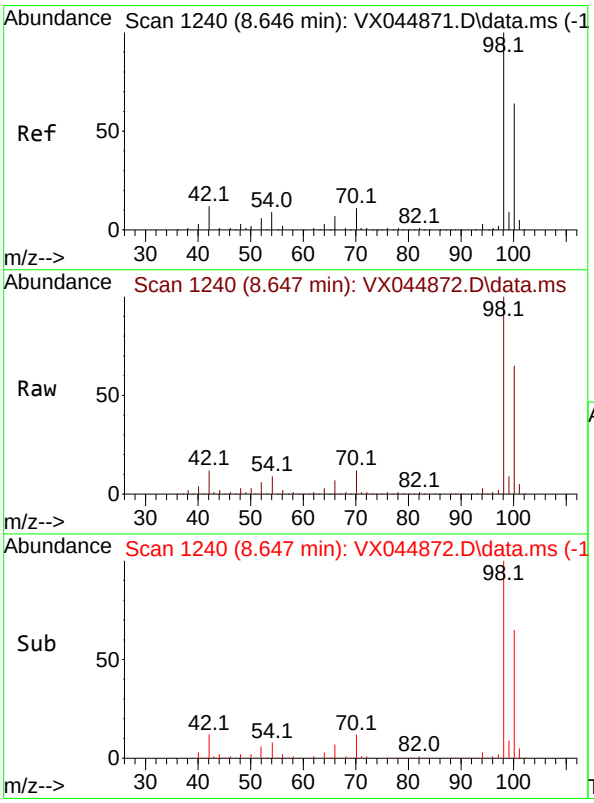
#49
1,4-Dioxane
Concen: 1931.508 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 77816

Ion	Ratio	Lower	Upper
88	100		
43	31.8	26.6	39.8
58	68.9	55.9	83.9

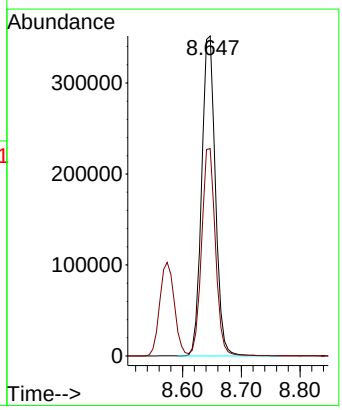


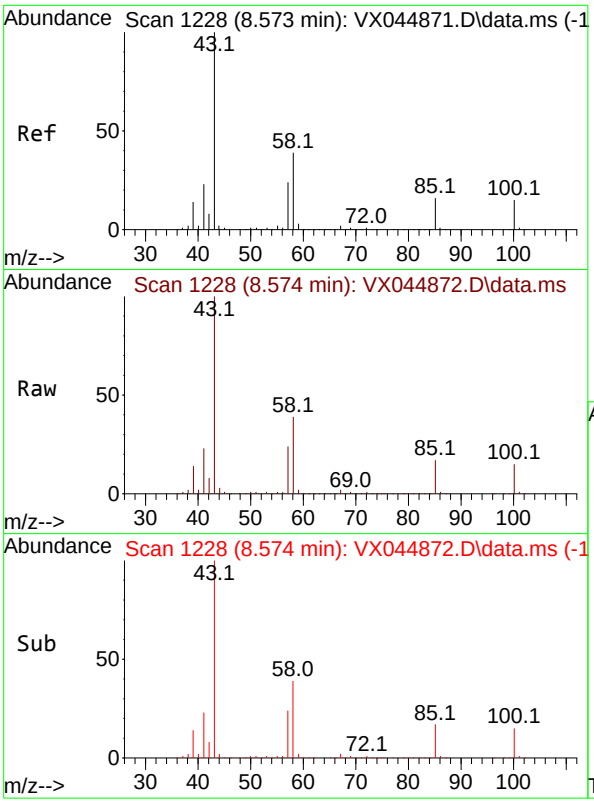


#50
Toluene-d8
Concen: 98.253 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 98 Resp: 570976

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.7	79.1



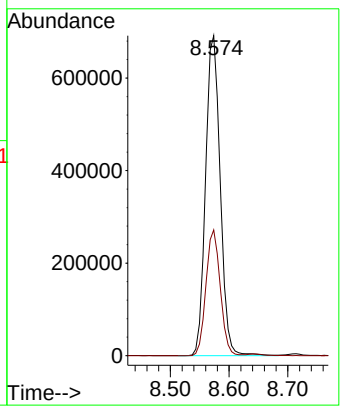


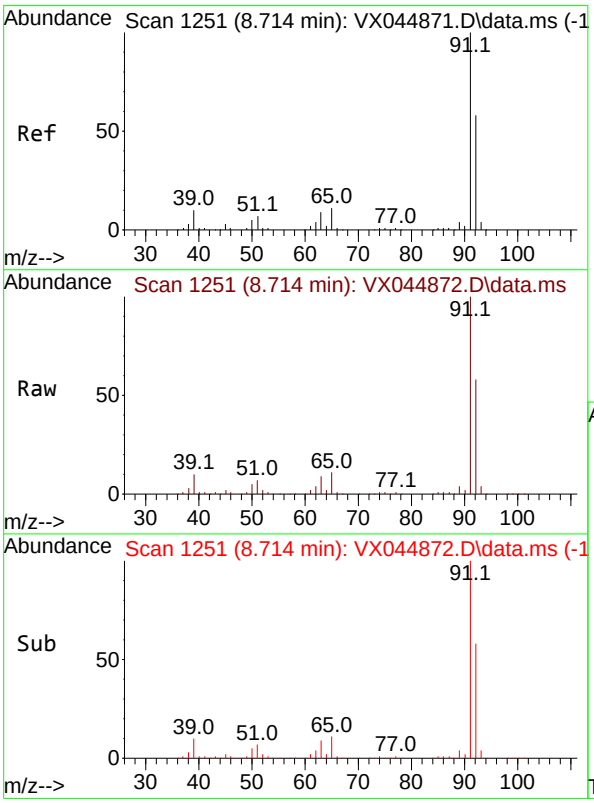
#51
4-Methyl-2-Pentanone
Concen: 494.353 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1196887

Ion	Ratio	Lower	Upper
43	100		
58	38.4	30.8	46.2

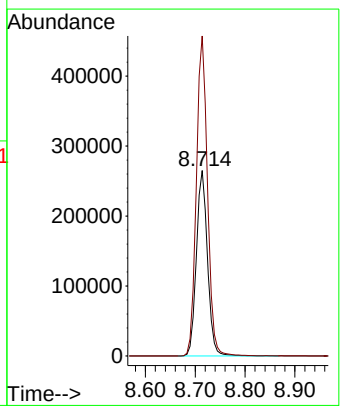


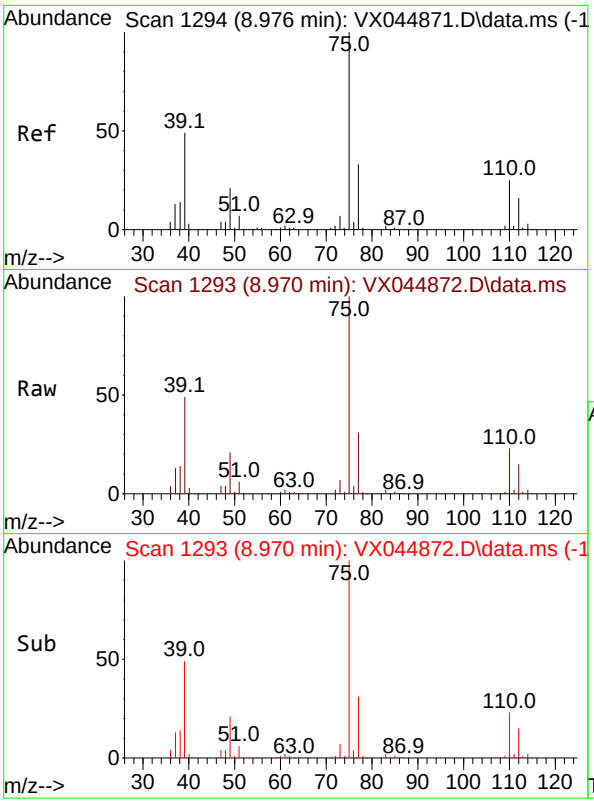


#52
Toluene
Concen: 99.270 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 92 Resp: 409318

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.4	206.2



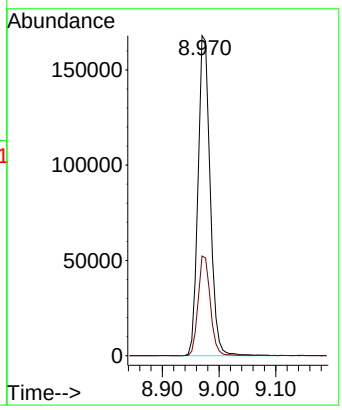


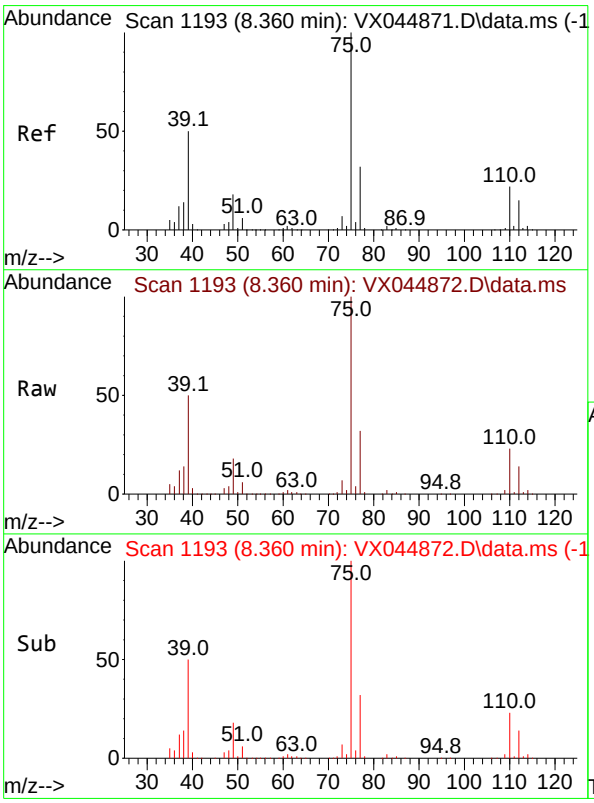
#53
t-1,3-Dichloropropene
Concen: 106.694 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 249725

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

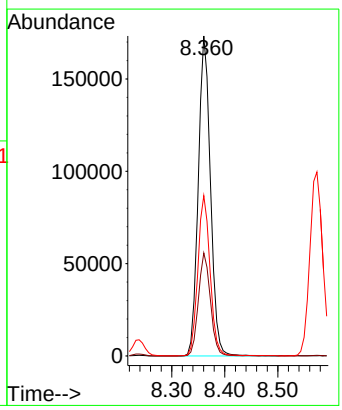


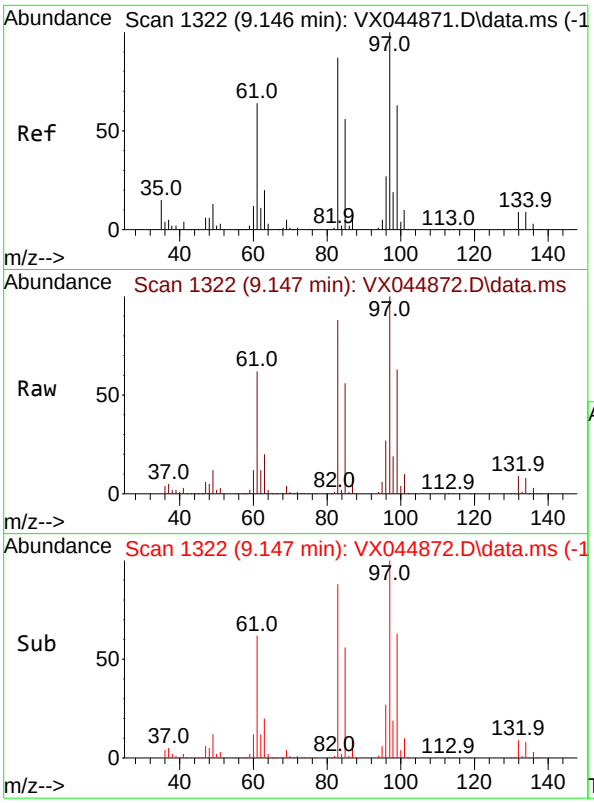


#54
cis-1,3-Dichloropropene
Concen: 106.287 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 277371

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.3	37.9
39	50.1	40.0	60.0



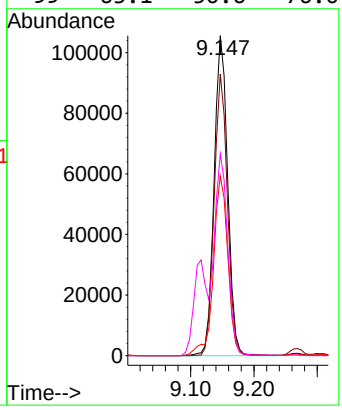


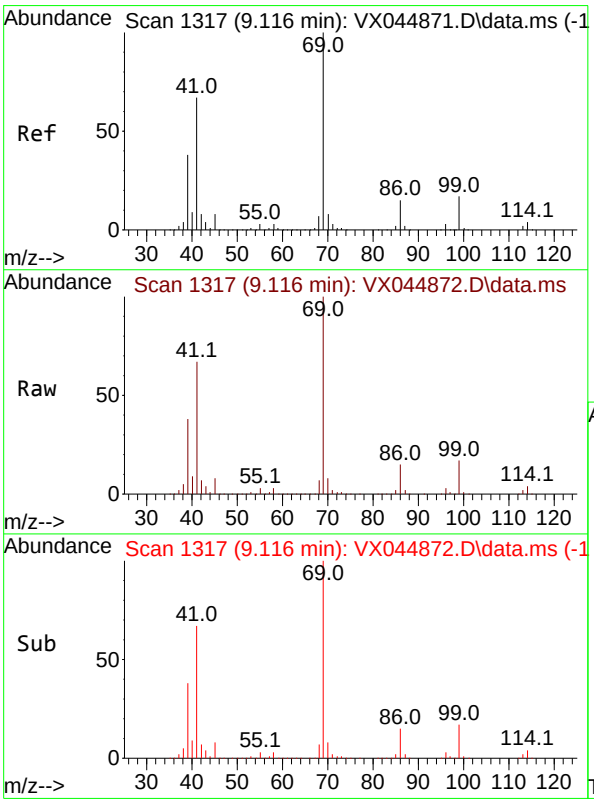
#55
1,1,2-Trichloroethane
Concen: 98.817 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 156629

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.8	104.6
85	56.2	44.8	67.2
99	63.1	50.6	76.0

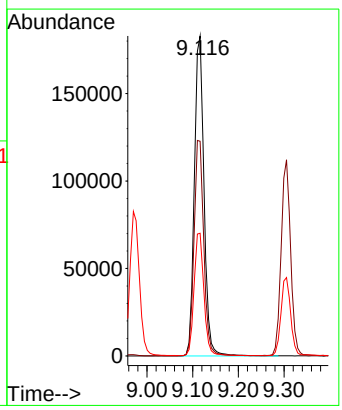


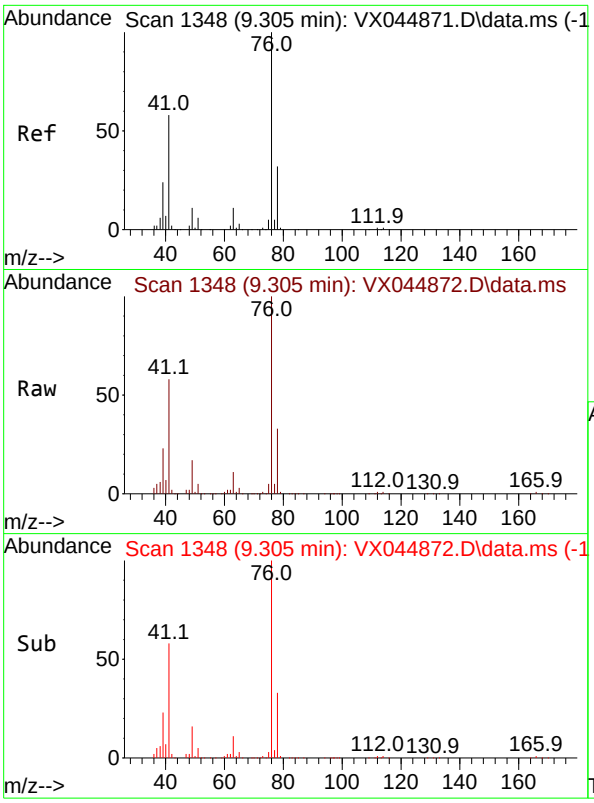


#56
Ethyl methacrylate
Concen: 104.958 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 69 Resp: 268693

Ion	Ratio	Lower	Upper
69	100		
41	68.0	55.2	82.8
39	39.2	30.8	46.2



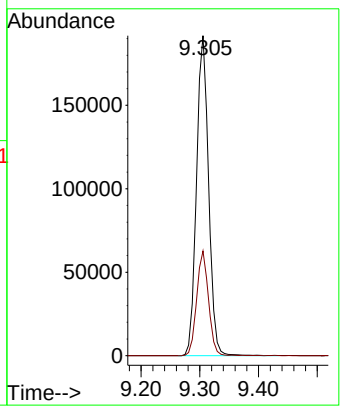


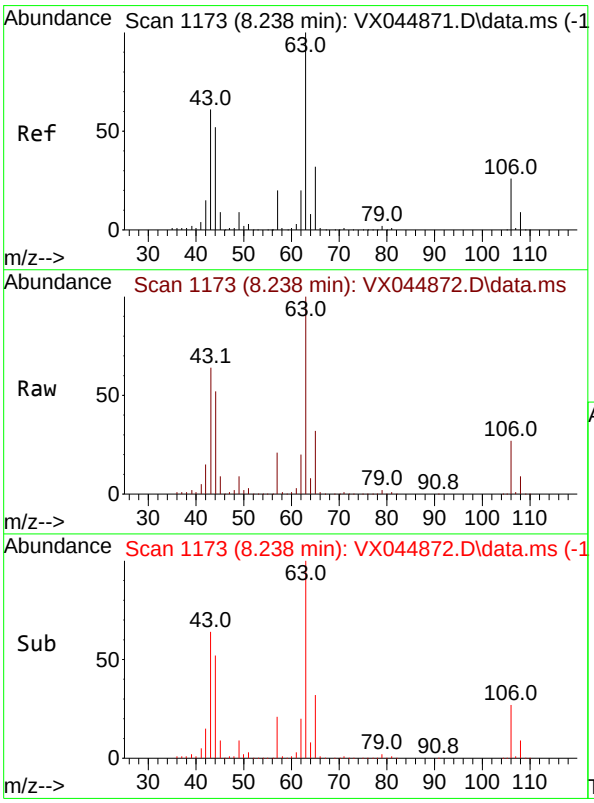
#57
1,3-Dichloropropane
Concen: 98.742 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 273845

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8

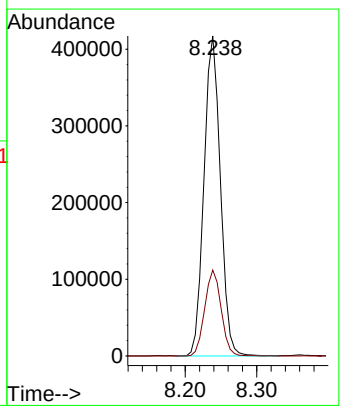


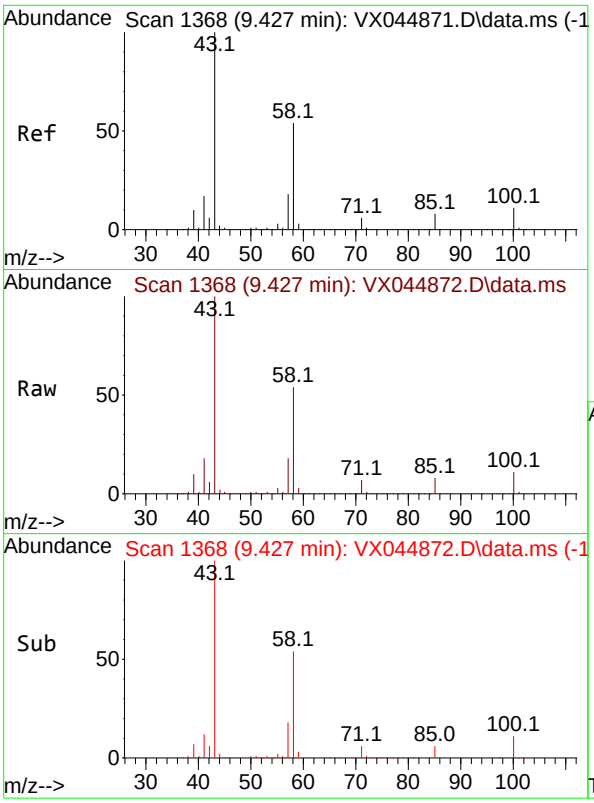


#58
2-Chloroethyl Vinyl ether
Concen: 528.405 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 664198

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.3	31.9



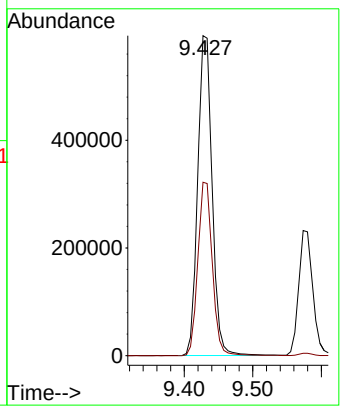


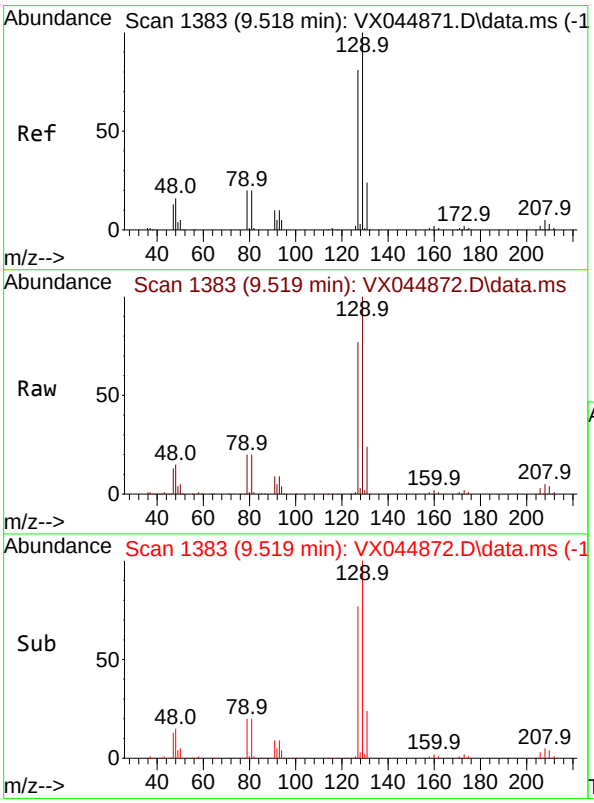
#59
2-Hexanone
Concen: 499.819 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 871904

Ion	Ratio	Lower	Upper
43	100		
58	54.4	27.5	82.4

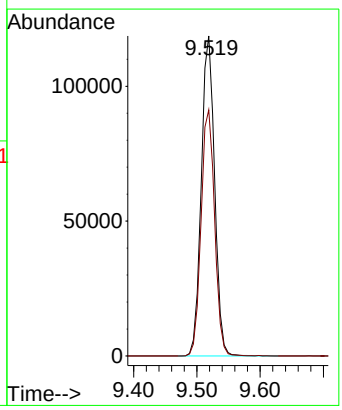


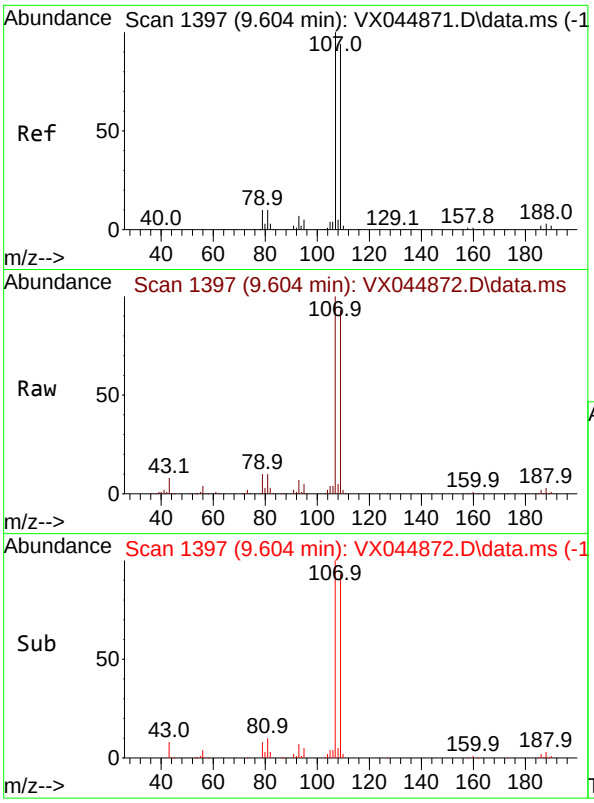


#60
Dibromochloromethane
Concen: 102.557 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:129 Resp: 173848

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.3



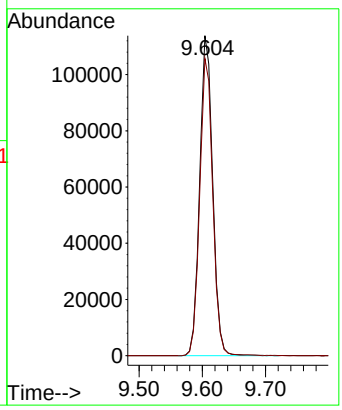


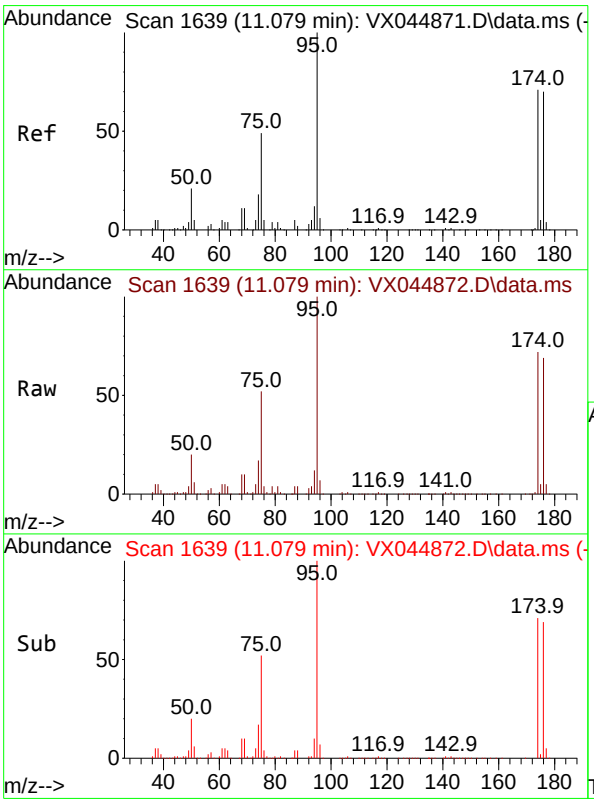
#61
1,2-Dibromoethane
Concen: 101.451 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 162982

Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.9	113.9

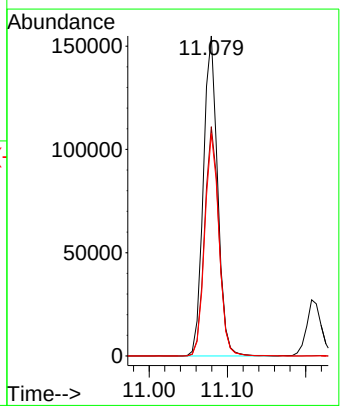


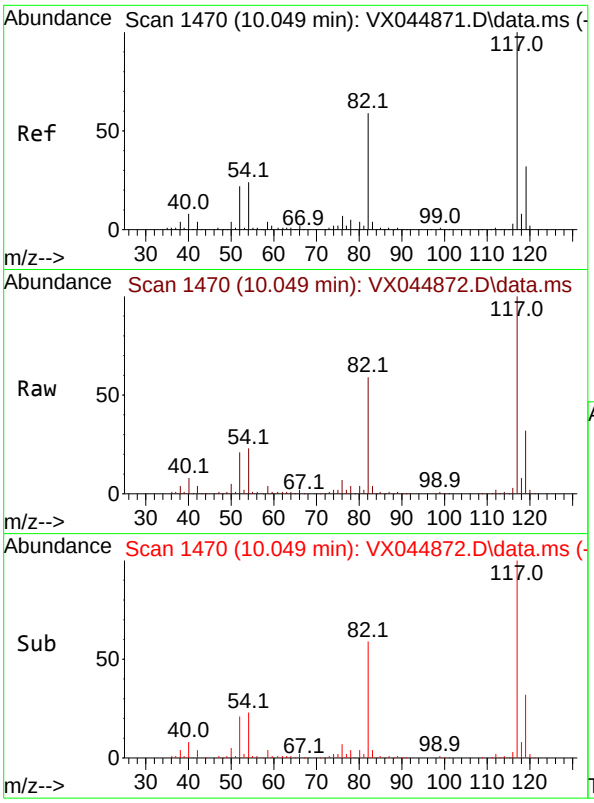


#62
4-Bromofluorobenzene
Concen: 100.079 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 95 Resp: 196066

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	142.6
176	68.8	0.0	141.6



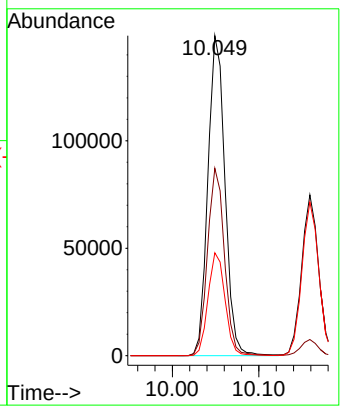


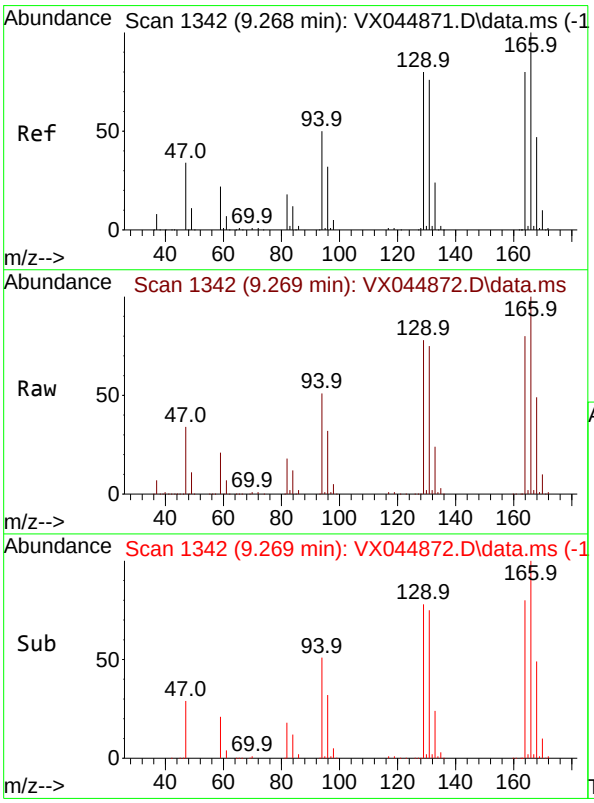
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 203881

Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.5	71.3
119	32.2	25.4	38.0

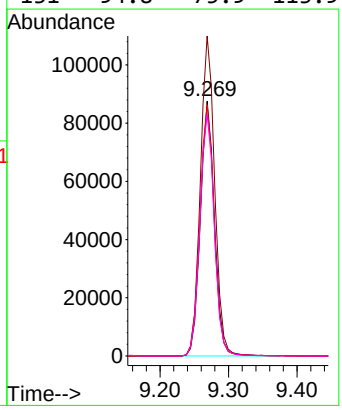


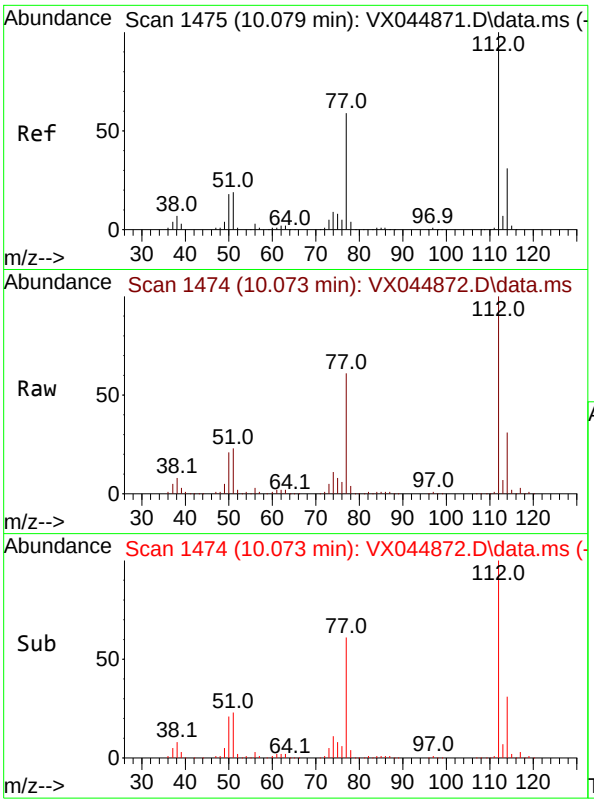


#64
Tetrachloroethene
Concen: 97.447 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:164 Resp: 125294

Ion	Ratio	Lower	Upper
164	100		
166	125.6	100.4	150.6
129	98.6	79.9	119.9
131	94.8	75.9	113.9



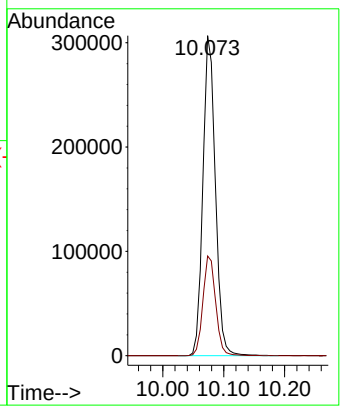


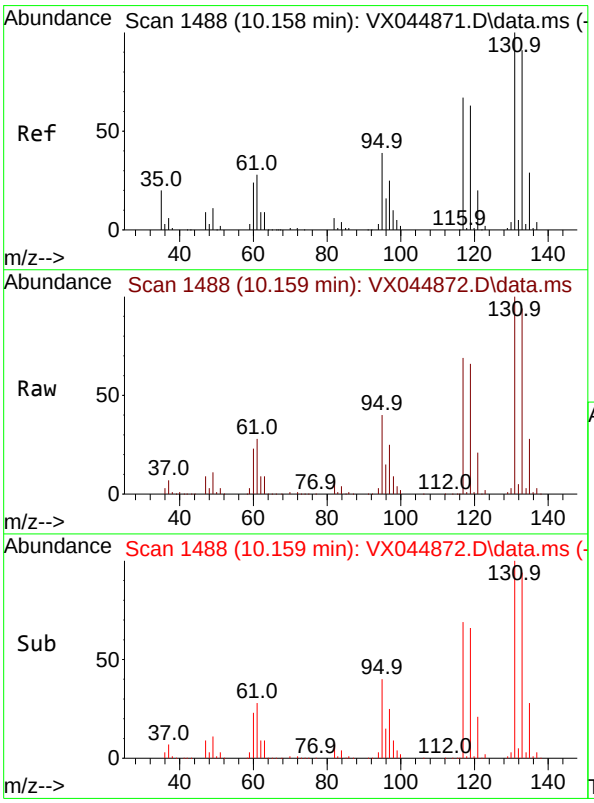
#65
Chlorobenzene
Concen: 99.694 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 436565

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.6

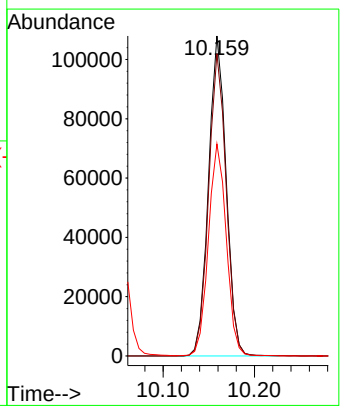


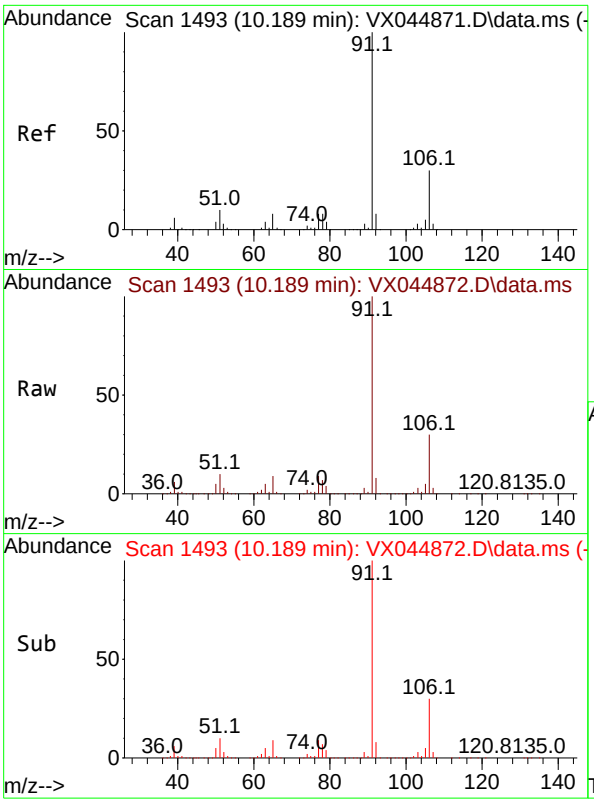


#66
1,1,1,2-Tetrachloroethane
Concen: 102.728 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:131 Resp: 144793

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.1	141.3
119	67.2	33.6	100.6



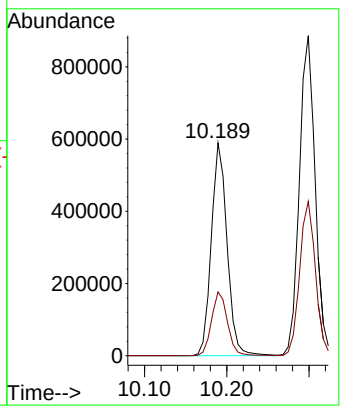


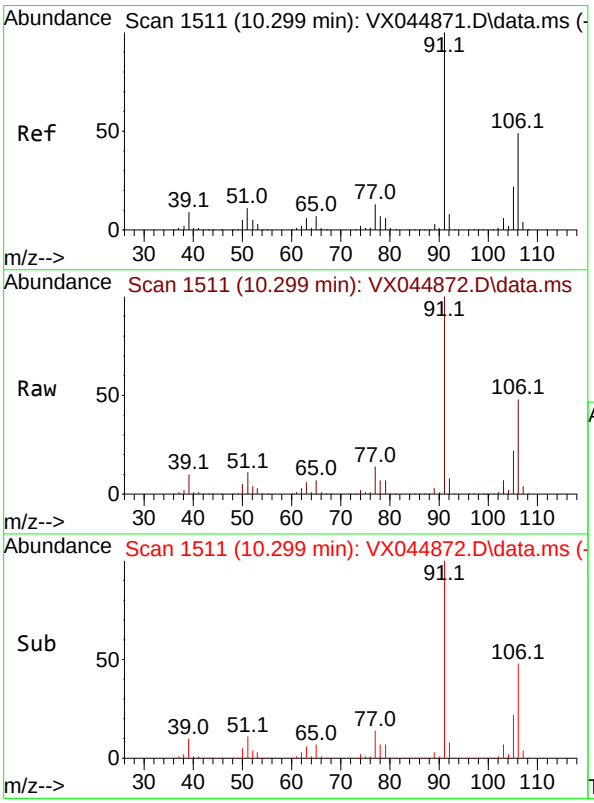
#67
Ethyl Benzene
Concen: 101.477 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 784184

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

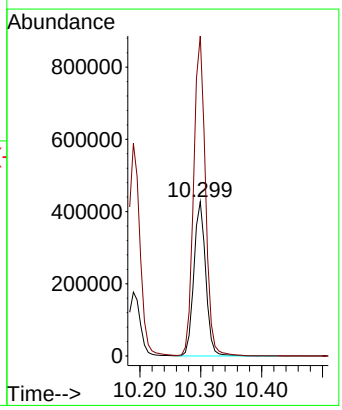


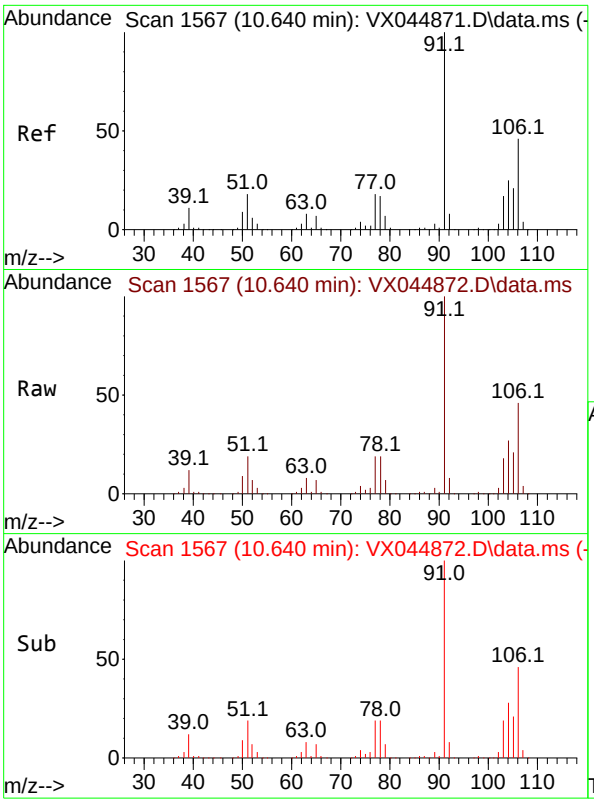


#68
m/p-Xylenes
Concen: 201.907 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:106 Resp: 575559

Ion	Ratio	Lower	Upper
106	100		
91	207.1	164.3	246.5



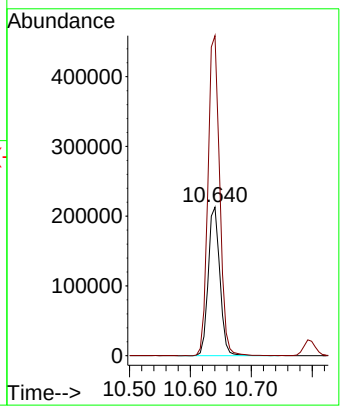


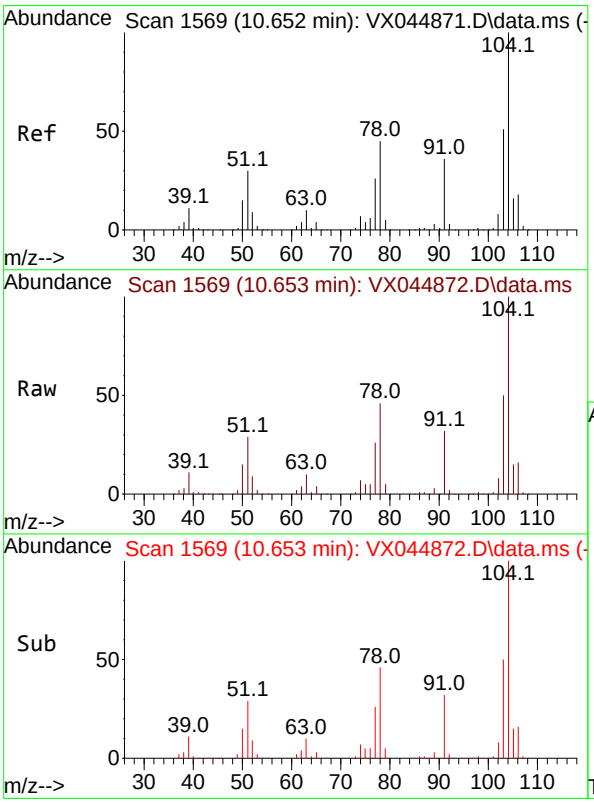
#69
o-Xylene
Concen: 98.530 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 281830

Ion	Ratio	Lower	Upper
106	100		
91	217.3	108.5	325.5

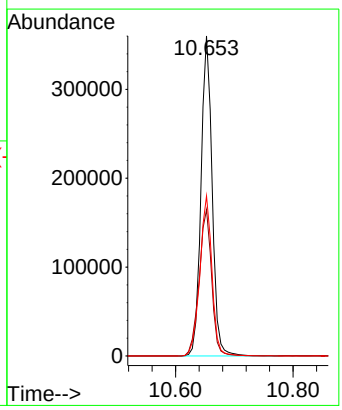


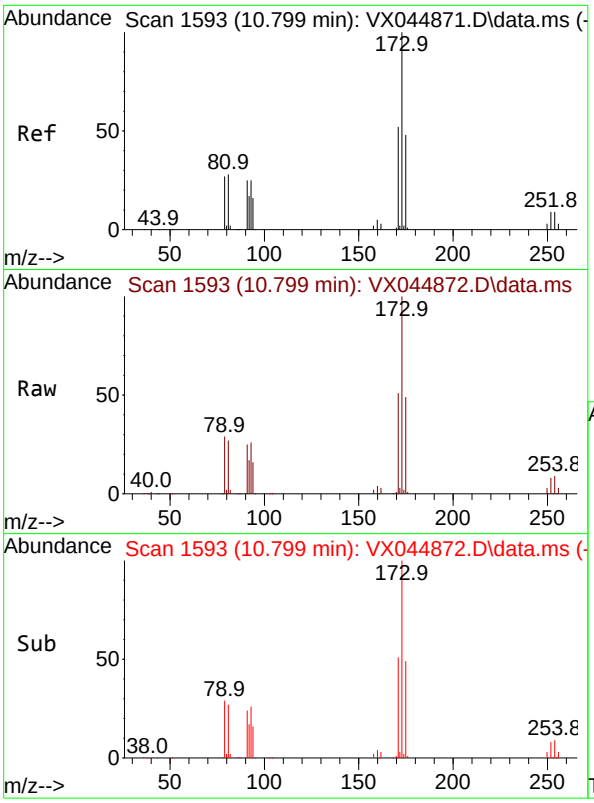


#70
Styrene
Concen: 102.728 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:104 Resp: 473403

Ion	Ratio	Lower	Upper
104	100		
78	51.5	40.5	60.7
103	54.5	43.6	65.4



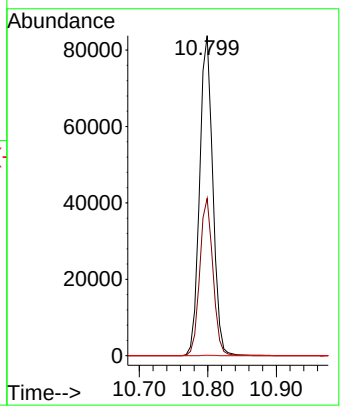


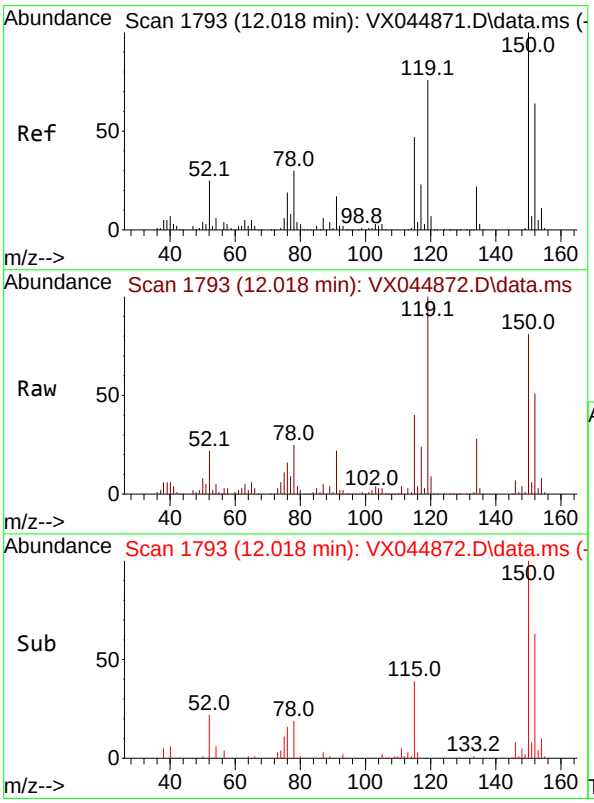
#71
Bromoform
Concen: 106.827 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 112371

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	72.8
254	0.1	0.0	0.0#

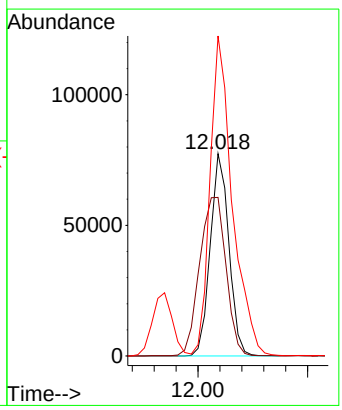


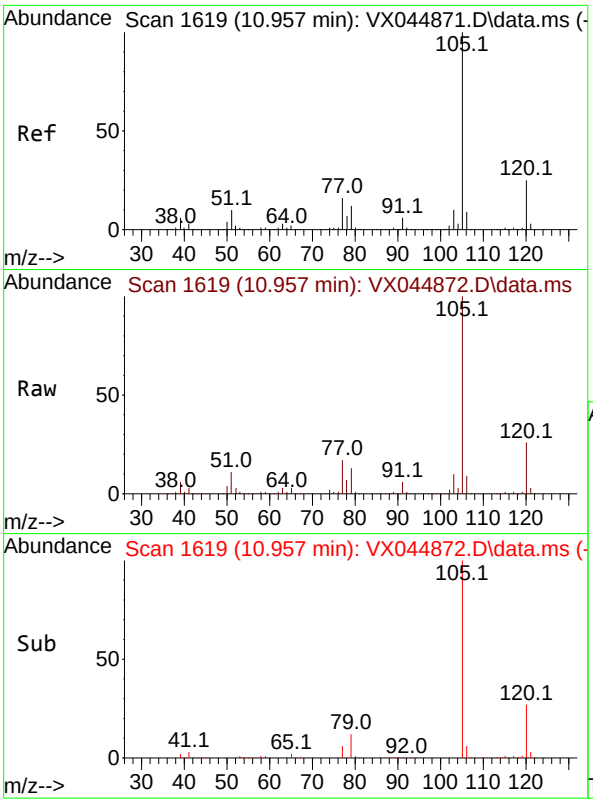


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:152 Resp: 91371

Ion	Ratio	Lower	Upper
152	100		
115	111.2	43.4	130.1
150	189.1	0.0	350.4



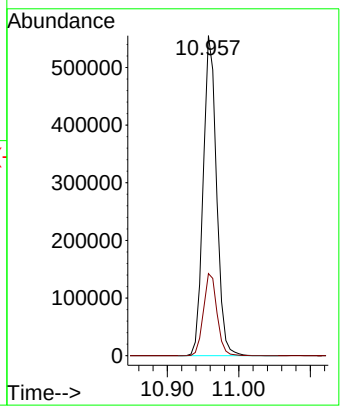


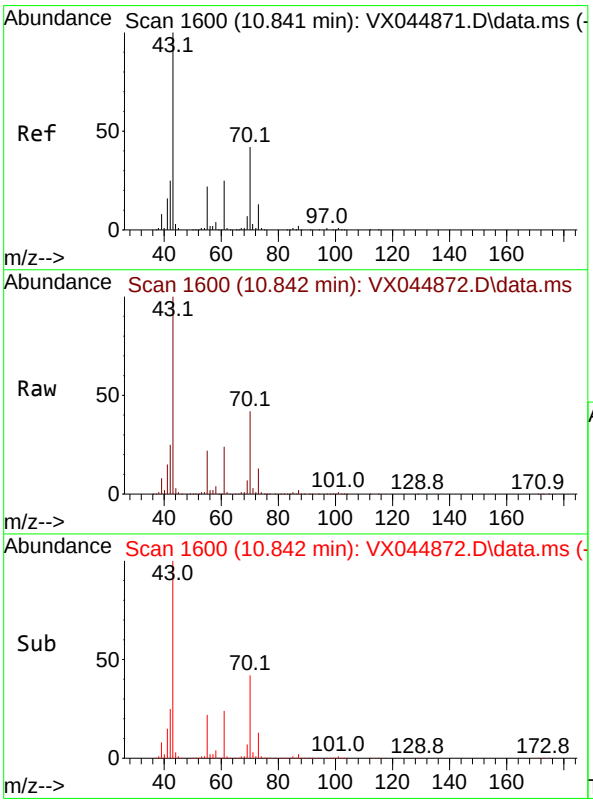
#73
Isopropylbenzene
Concen: 97.854 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 719923

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

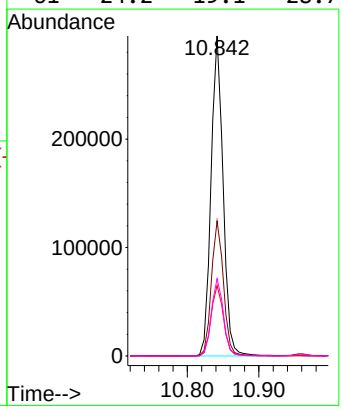


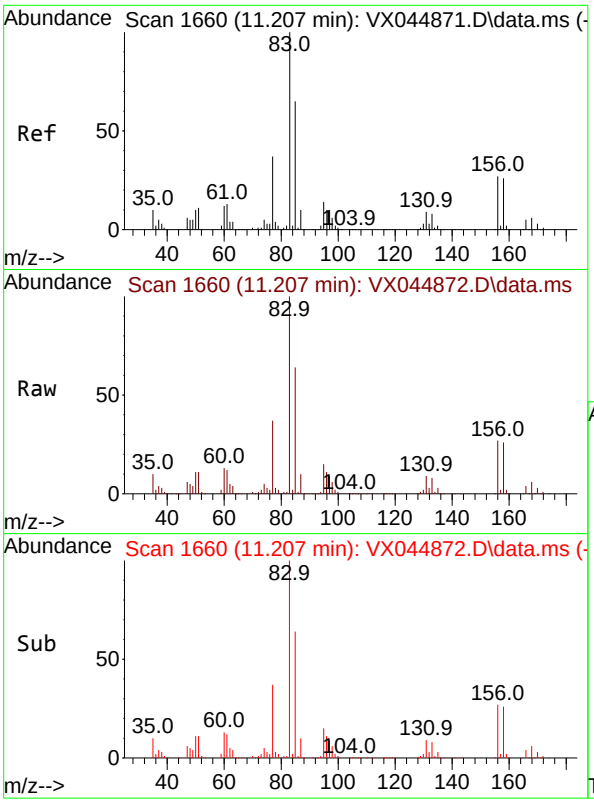


#74
N-amyl acetate
Concen: 103.687 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 345193

Ion	Ratio	Lower	Upper
43	100		
70	42.4	33.7	50.5
55	22.6	18.6	27.8
61	24.2	19.1	28.7



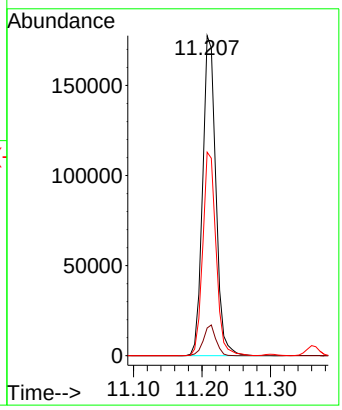


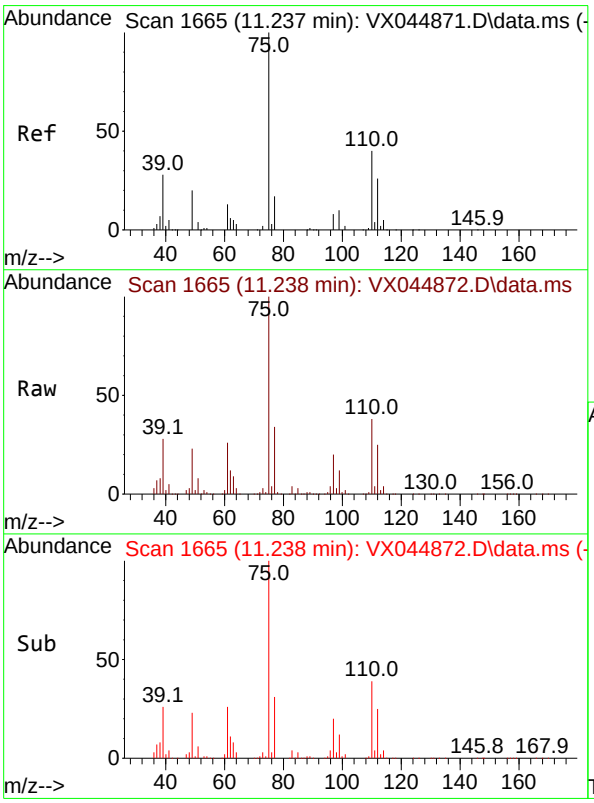
#75
1,1,2,2-Tetrachloroethane
Concen: 94.351 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 238529

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	63.9	32.3	96.8

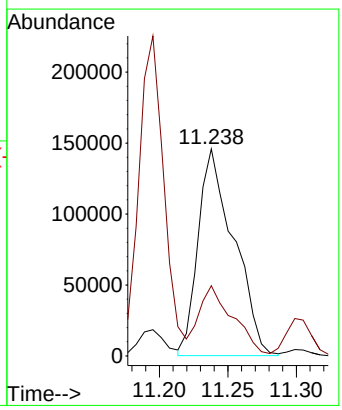


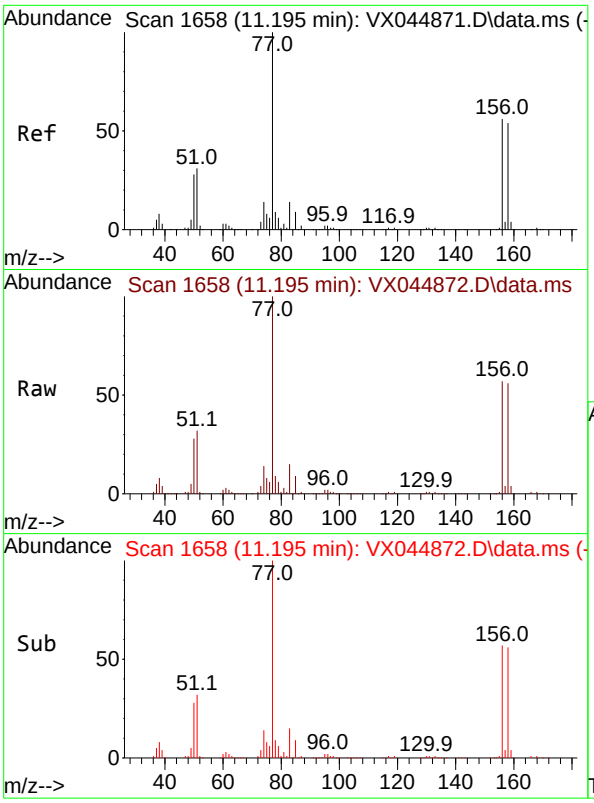


#76
1,2,3-Trichloropropane
Concen: 130.869 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 265118

Ion	Ratio	Lower	Upper
75	100		
77	32.5	21.9	65.7



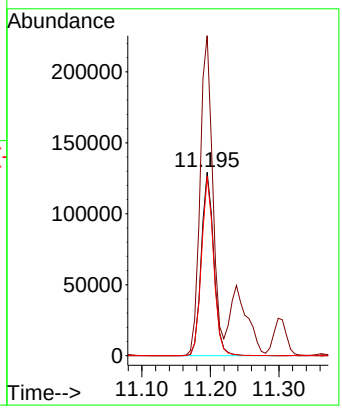


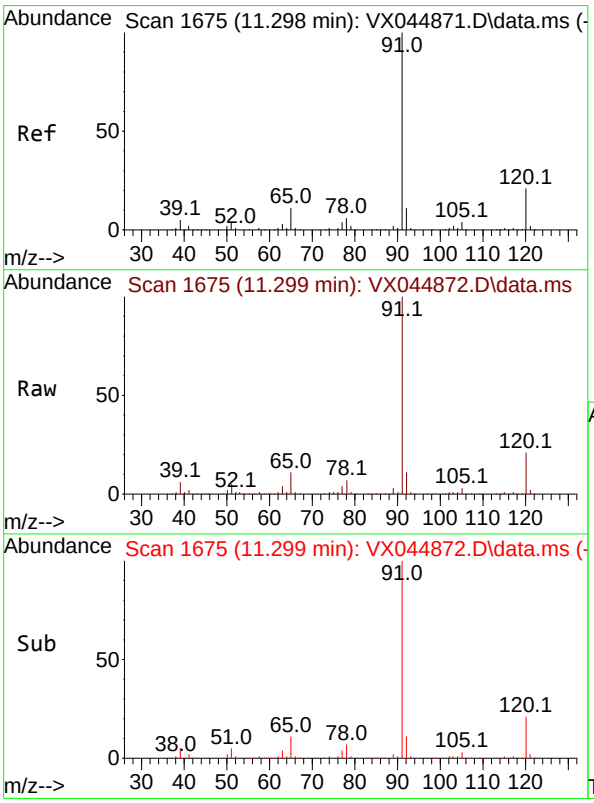
#77
Bromobenzene
Concen: 98.230 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 163845

Ion	Ratio	Lower	Upper
156	100		
77	176.7	88.4	265.3
158	95.7	48.4	145.2

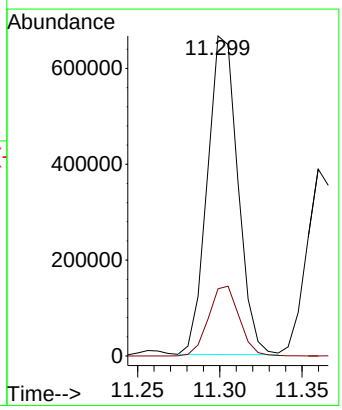


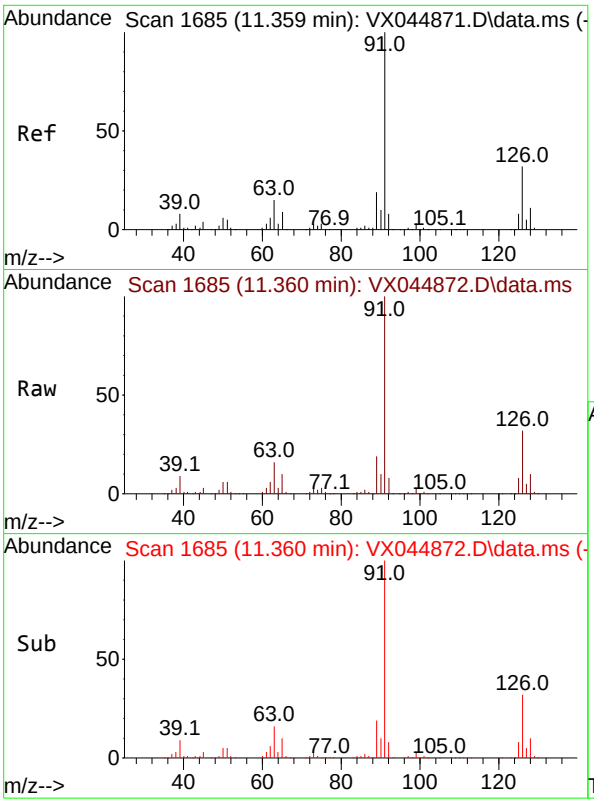


#78
n-propylbenzene
Concen: 101.132 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 858793

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3



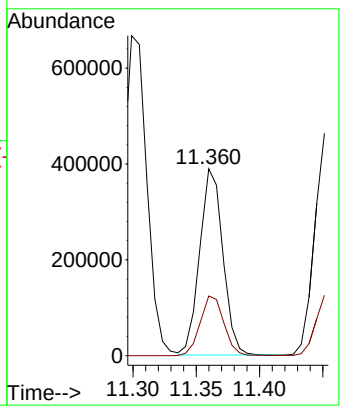


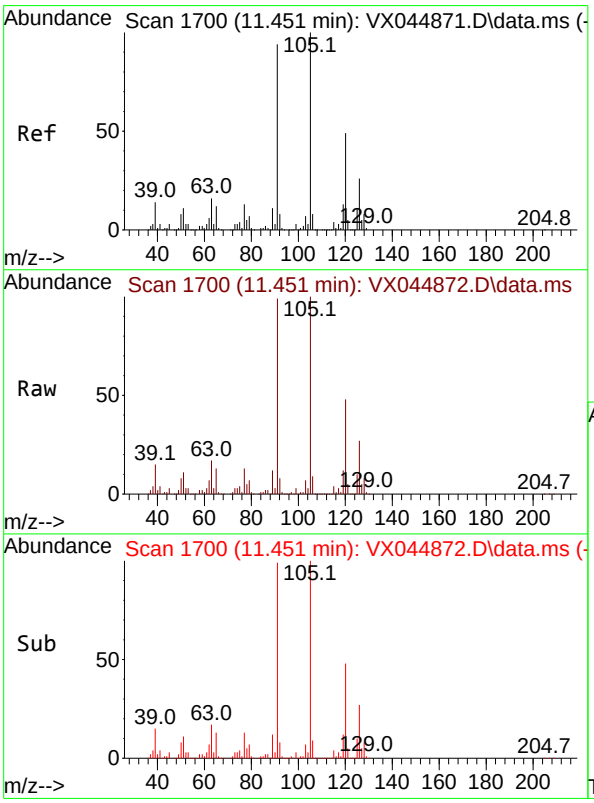
#79
2-Chlorotoluene
Concen: 95.257 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 497149

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.6

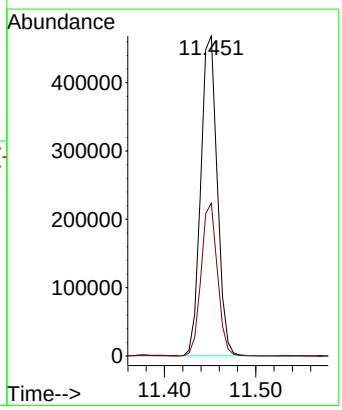


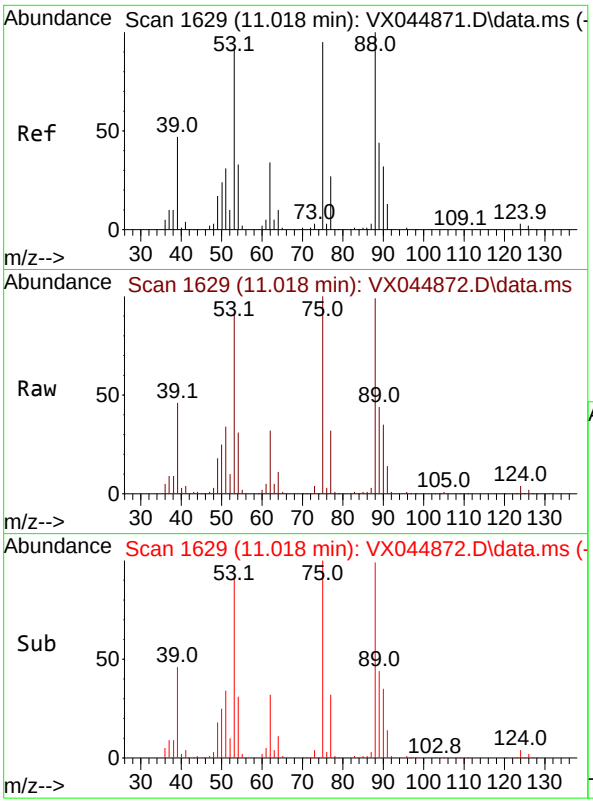


#80
1,3,5-Trimethylbenzene
Concen: 97.966 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 584885

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.0	72.0



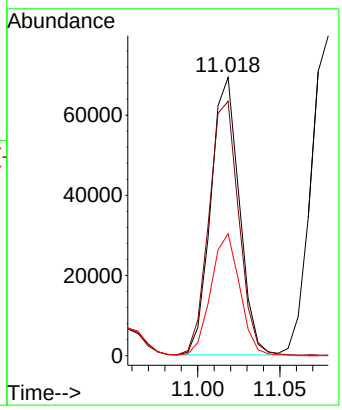


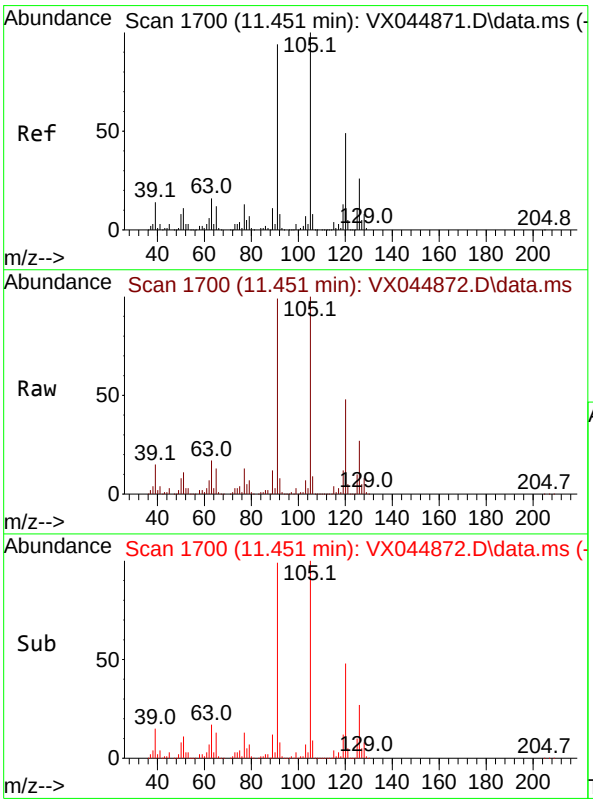
#81
trans-1,4-Dichloro-2-butene
Concen: 106.006 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 83483

Ion	Ratio	Lower	Upper
75	100		
53	95.9	78.0	117.0
89	44.6	36.6	54.8

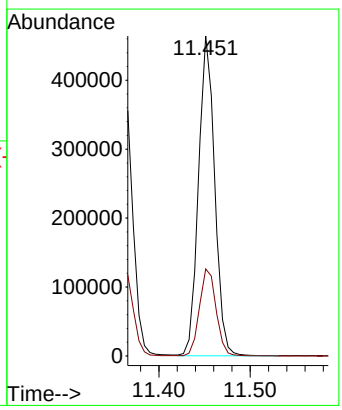


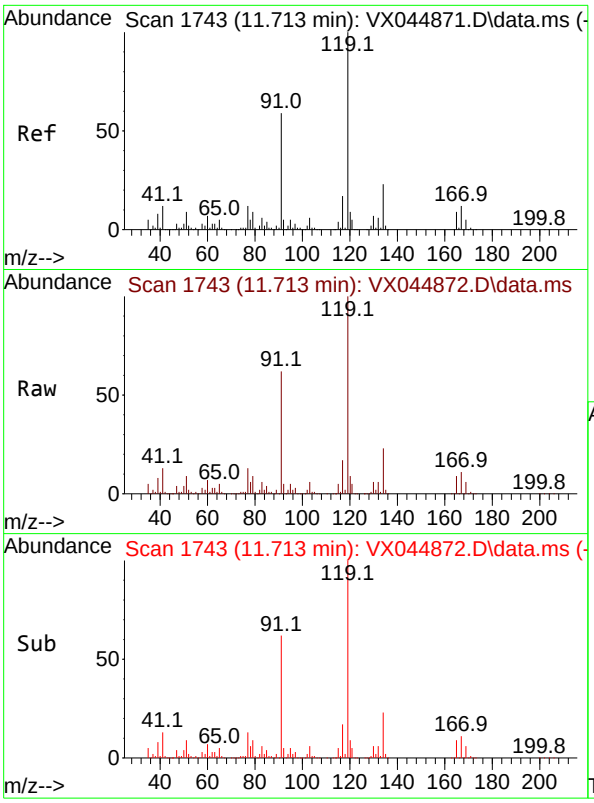


#82
4-Chlorotoluene
Concen: 98.634 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 569510

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.2	42.6



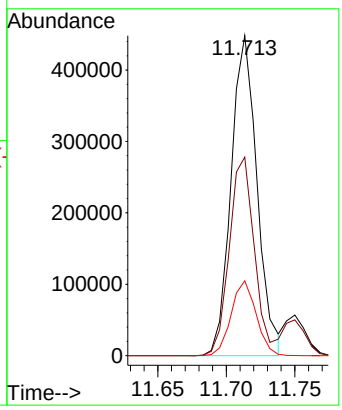


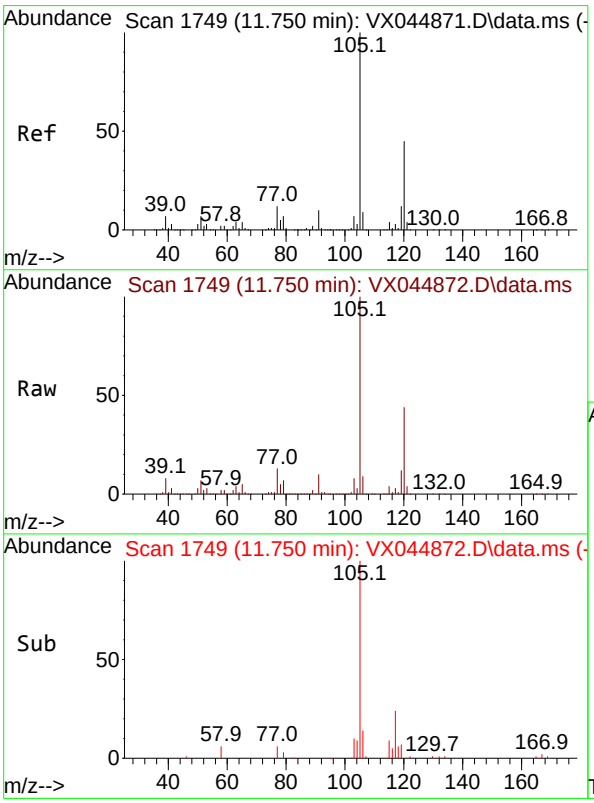
#83
tert-Butylbenzene
Concen: 97.917 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 591396

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.1	87.4
134	22.6	11.5	34.5

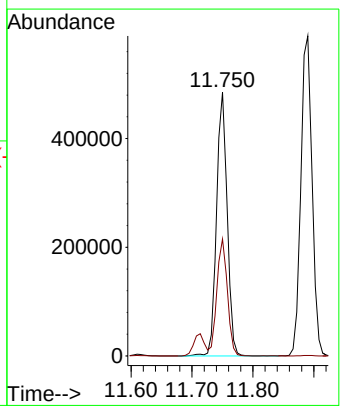


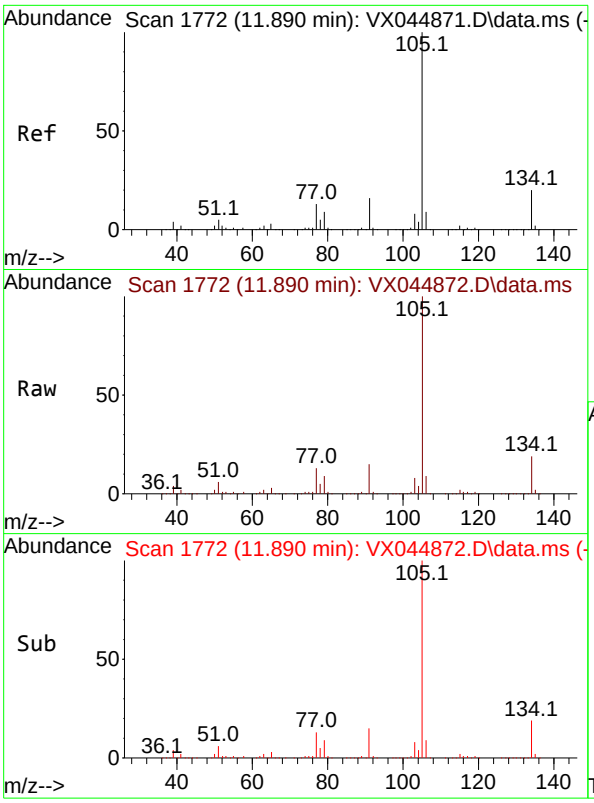


#84
1,2,4-Trimethylbenzene
Concen: 99.851 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 588385

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.0



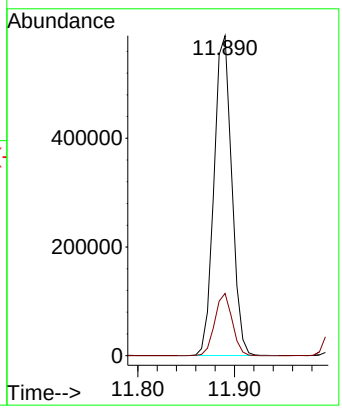


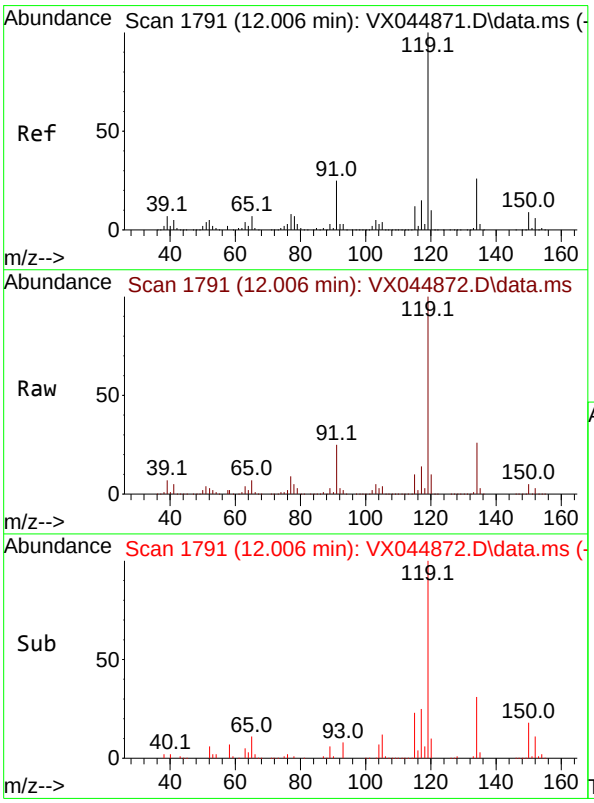
#85
sec-Butylbenzene
Concen: 100.219 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 749534

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.3

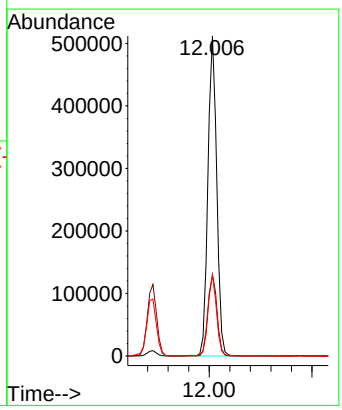


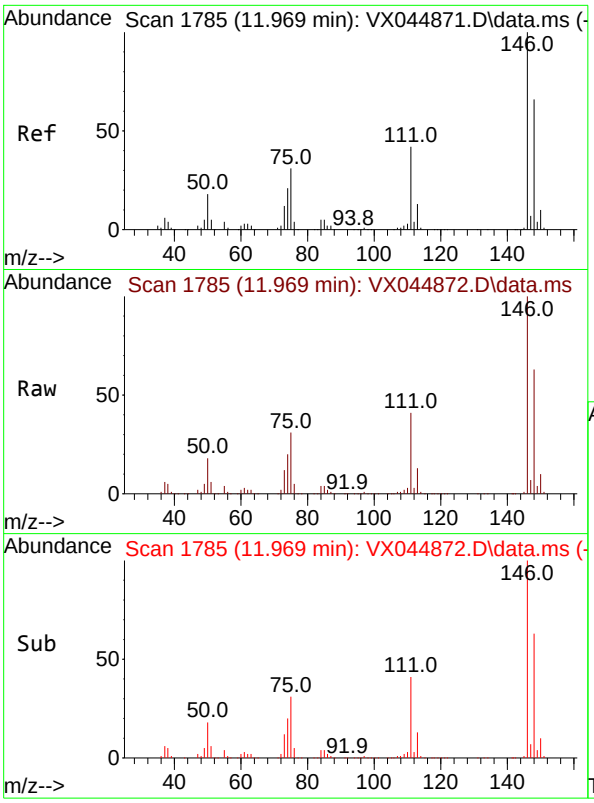


#86
p-Isopropyltoluene
Concen: 101.019 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:119 Resp: 607577

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	38.9
91	25.0	12.1	36.3



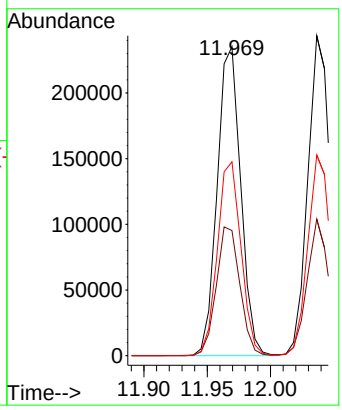


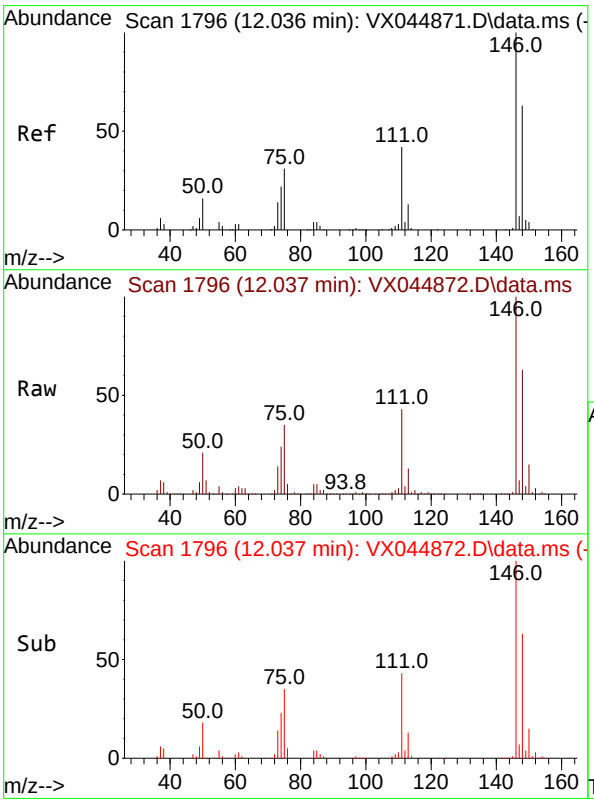
#87
1,3-Dichlorobenzene
Concen: 99.061 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 303851

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	63.1	32.5	97.5

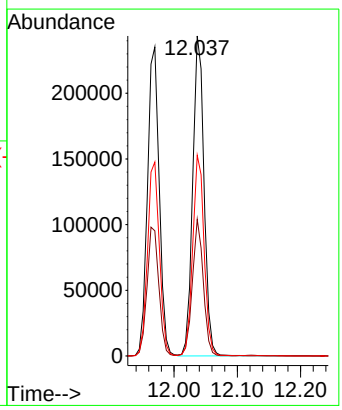


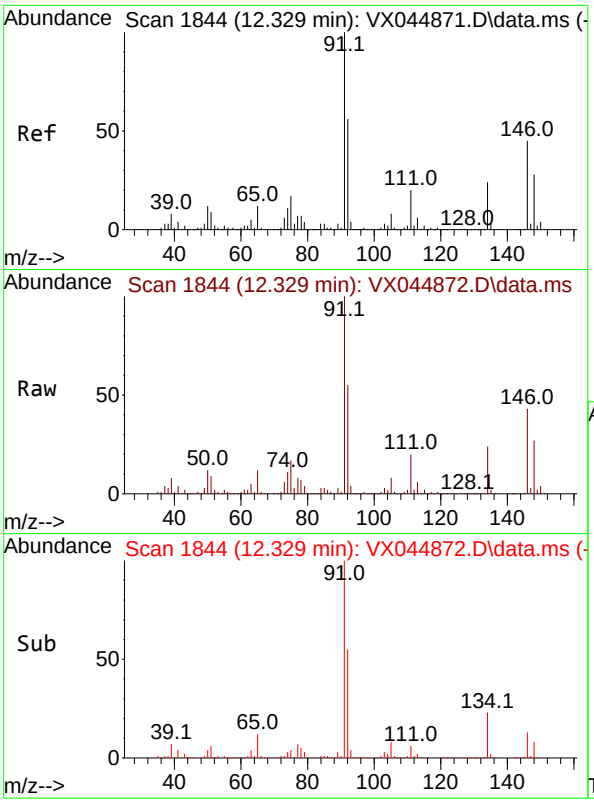


#88
1,4-Dichlorobenzene
Concen: 97.830 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:146 Resp: 303417

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.4	61.3
148	63.0	32.0	96.0



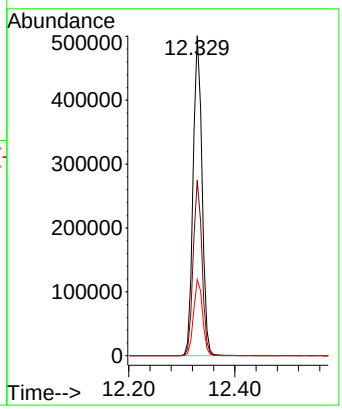


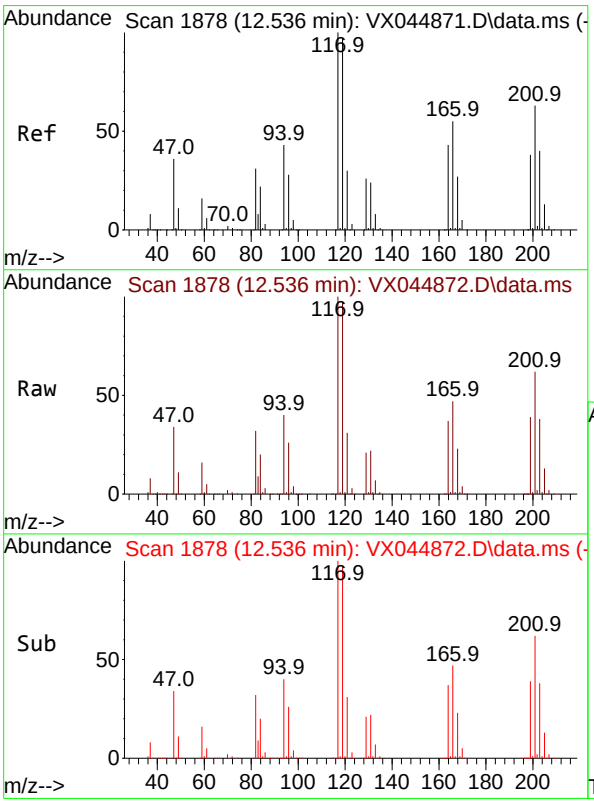
#89
n-Butylbenzene
Concen: 109.686 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 583634

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.0	12.1	36.3

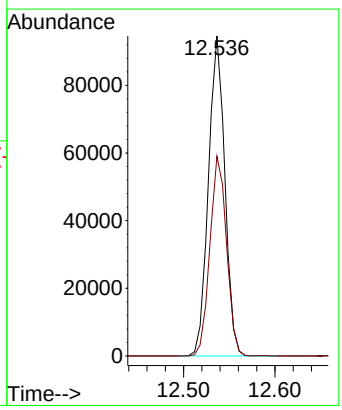


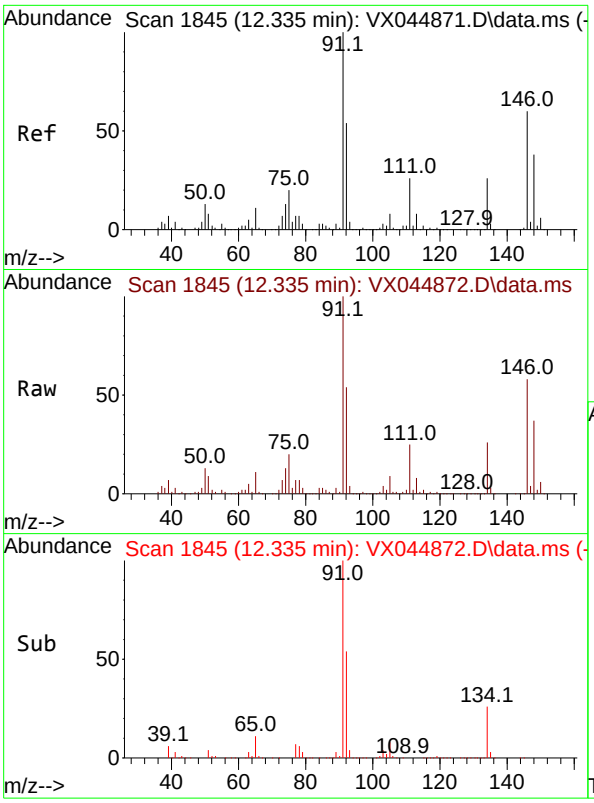


#90
Hexachloroethane
Concen: 104.365 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 117533

Ion	Ratio	Lower	Upper
117	100		
201	63.4	32.5	97.5



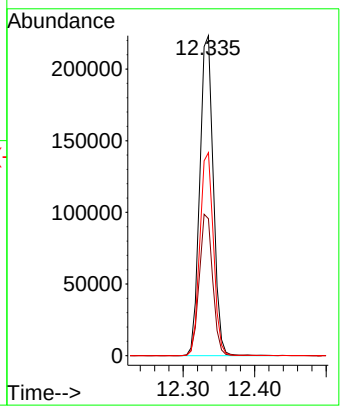


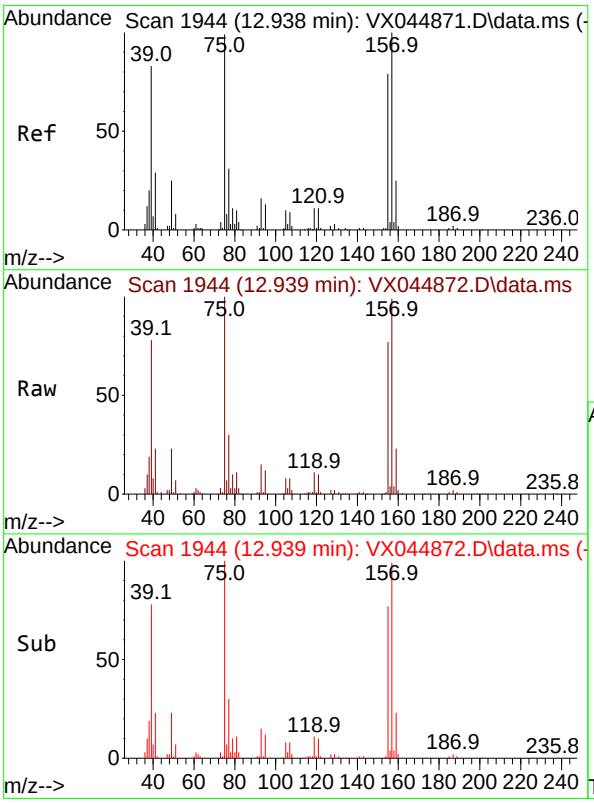
#91
1,2-Dichlorobenzene
Concen: 97.244 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 293151

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.8	65.4
148	63.9	31.9	95.9

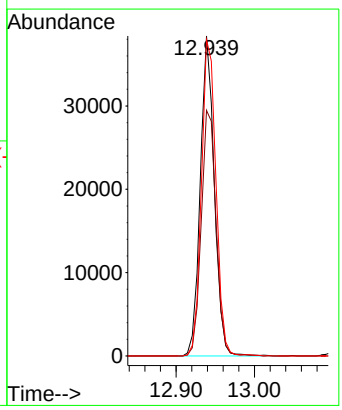


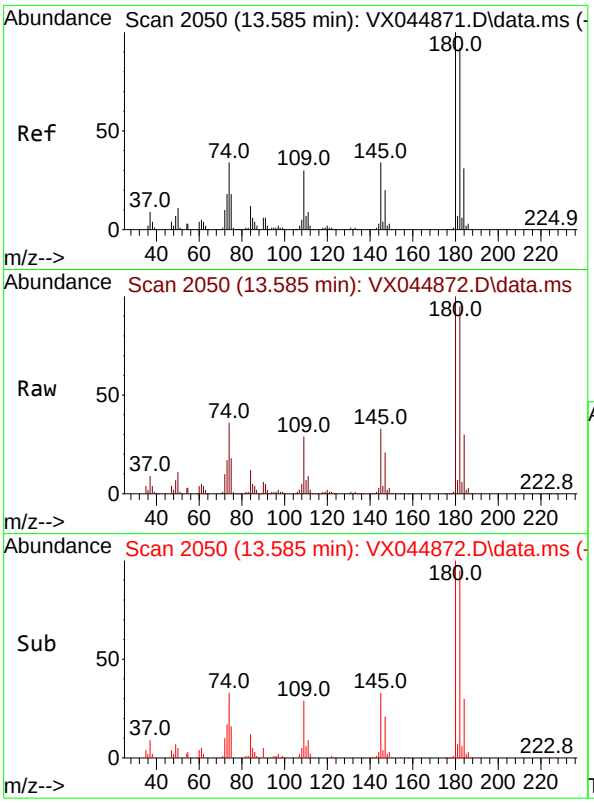


#92
1,2-Dibromo-3-Chloropropane
Concen: 103.477 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 47745

Ion	Ratio	Lower	Upper
75	100		
155	81.0	40.5	121.4
157	102.3	51.4	154.3



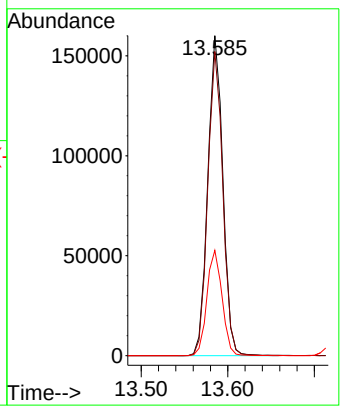


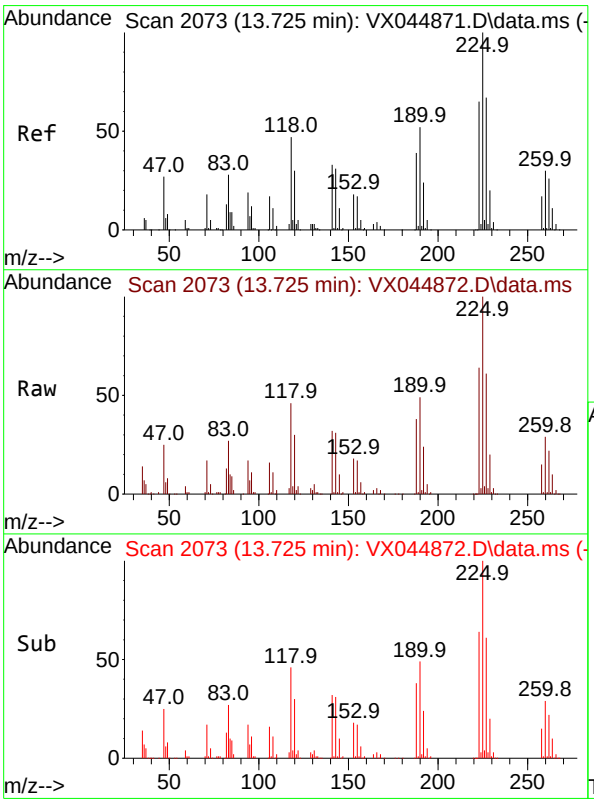
#93
1,2,4-Trichlorobenzene
Concen: 105.921 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 193214

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.6	142.8
145	33.2	16.4	49.1

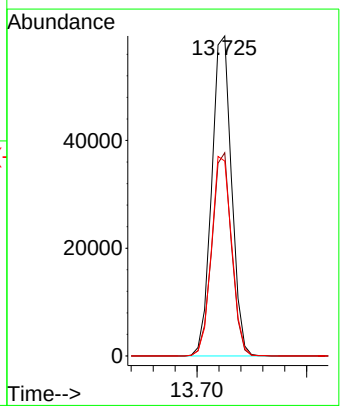


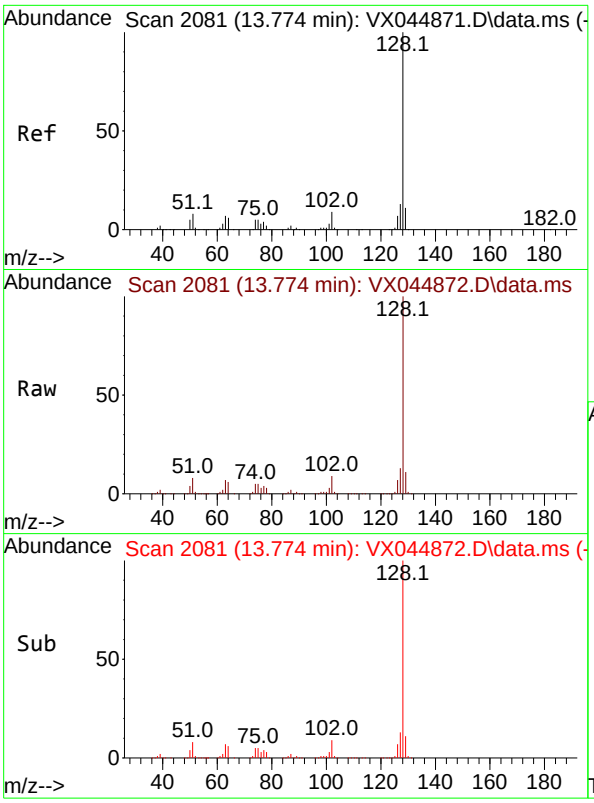


#94
Hexachlorobutadiene
Concen: 103.024 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:225 Resp: 74605

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.2
227	63.5	32.3	96.8



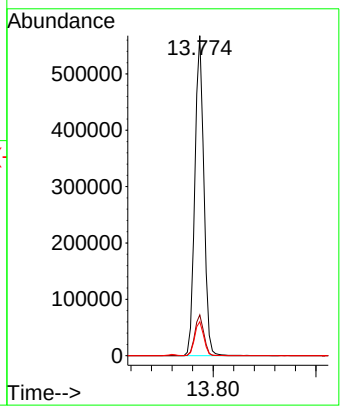


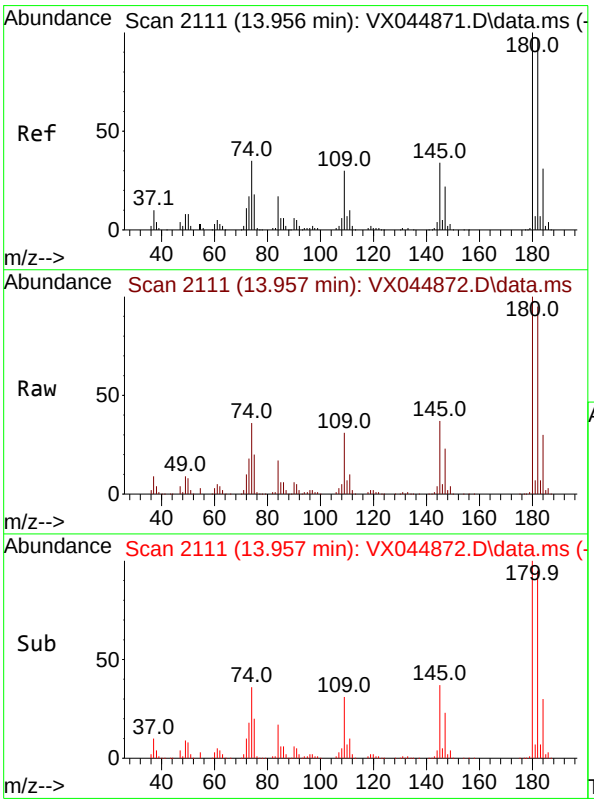
#95
Naphthalene
Concen: 104.505 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 689104

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.7	8.9	13.3

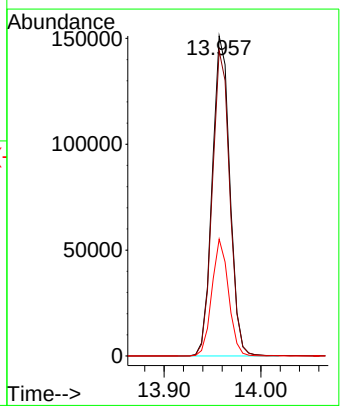




#96
1,2,3-Trichlorobenzene
Concen: 103.659 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:180 Resp: 190534

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.6
145	34.6	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	125253	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	232597	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	196663	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84836	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	280853	153.180	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 306.360%#			
35) Dibromofluoromethane	5.379	113	229218	151.572	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 303.140%#			
50) Toluene-d8	8.647	98	845632	147.877	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 295.760%#			
62) 4-Bromofluorobenzene	11.079	95	287486	149.124	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 298.240%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	260576	148.330	ug/l	96
3) Chloromethane	1.307	50	297968	139.361	ug/l	100
4) Vinyl Chloride	1.374	62	305986	147.723	ug/l	99
5) Bromomethane	1.593	94	92399	149.071	ug/l	96
6) Chloroethane	1.660	64	67889	130.289	ug/l	97
7) Trichlorofluoromethane	1.867	101	378664	144.558	ug/l	99
8) Diethyl Ether	2.136	74	140428	147.822	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	239215	151.147	ug/l	100
10) Methyl Iodide	2.441	142	305390	148.887	ug/l	100
11) Tert butyl alcohol	3.020	59	242430	712.734	ug/l	100
12) 1,1-Dichloroethene	2.306	96	246987	152.989	ug/l	99
13) Acrolein	2.239	56	273178	778.418	ug/l	100
14) Allyl chloride	2.654	41	438493	150.289	ug/l	97
15) Acrylonitrile	3.068	53	684234	753.423	ug/l	99
16) Acetone	2.386	43	547939	743.398	ug/l	99
17) Carbon Disulfide	2.502	76	693558	156.665	ug/l	100
18) Methyl Acetate	2.703	43	373877	160.743	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	792810	154.347	ug/l	100
20) Methylene Chloride	2.782	84	270575	149.871	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	242082	152.356	ug/l	93
22) Diisopropyl ether	3.757	45	839126	152.020	ug/l	98
23) Vinyl Acetate	3.721	43	3555031	789.993	ug/l	100
24) 1,1-Dichloroethane	3.605	63	472424	152.959	ug/l	99
25) 2-Butanone	4.556	43	914741	764.276	ug/l	98
26) 2,2-Dichloropropane	4.471	77	382167	156.029	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	292864	153.446	ug/l	99
28) Bromochloromethane	4.891	49	217387	146.458	ug/l	98
29) Tetrahydrofuran	5.001	42	596045	749.977	ug/l	99
30) Chloroform	5.086	83	453809	151.509	ug/l	99
31) Cyclohexane	5.458	56	423464	148.722	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	386162	151.996	ug/l	99
36) 1,1-Dichloropropene	5.684	75	324182	148.585	ug/l	100
37) Ethyl Acetate	4.715	43	368763	151.956	ug/l	99
38) Carbon Tetrachloride	5.672	117	320536	149.921	ug/l	98
39) Methylcyclohexane	7.373	83	443218	157.130	ug/l	99
40) Benzene	6.031	78	1014129	148.856	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	206155	158.707	ug/l		100
42) 1,2-Dichloroethane	6.080	62	336520	154.984	ug/l		99
43) Isopropyl Acetate	6.336	43	617516	157.575	ug/l		99
44) Trichloroethene	7.117	130	239030	153.496	ug/l		99
45) 1,2-Dichloropropane	7.427	63	259454	153.076	ug/l		100
46) Dibromomethane	7.574	93	179689	152.870	ug/l		99
47) Bromodichloromethane	7.818	83	357623	157.128	ug/l		98
48) Methyl methacrylate	7.690	41	297931	161.236	ug/l		99
49) 1,4-Dioxane	7.665	88	106175	2678.192	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	1736538	728.887	ug/l		100
52) Toluene	8.714	92	603113	148.645	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	378639	164.398	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	417724	162.667	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	229548	147.172	ug/l		98
56) Ethyl methacrylate	9.116	69	398535	158.205	ug/l		99
57) 1,3-Dichloropropane	9.305	76	403665	147.915	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	982120	794.010	ug/l		100
59) 2-Hexanone	9.433	43	1264470	736.622	ug/l		99
60) Dibromochloromethane	9.519	129	258320	154.862	ug/l		99
61) 1,2-Dibromoethane	9.604	107	240539	152.157	ug/l		99
64) Tetrachloroethene	9.269	164	184990	149.155	ug/l		96
65) Chlorobenzene	10.073	112	634550	150.224	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	212441	156.255	ug/l		99
67) Ethyl Benzene	10.189	91	1137842	152.647	ug/l		100
68) m/p-Xylenes	10.299	106	818971	297.841	ug/l		98
69) o-Xylene	10.640	106	401928	145.674	ug/l		99
70) Styrene	10.653	104	671843	151.140	ug/l		98
71) Bromoform	10.799	173	169481	167.033	ug/l	#	98
73) Isopropylbenzene	10.957	105	1037402	151.869	ug/l		99
74) N-amyl acetate	10.841	43	521962	168.861	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	346013	147.409	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	392008	208.411	ug/l		82
77) Bromobenzene	11.195	156	234957	151.715	ug/l		99
78) n-propylbenzene	11.305	91	1231079	156.140	ug/l		99
79) 2-Chlorotoluene	11.360	91	717766	148.123	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	822707	148.415	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	126660	173.221	ug/l		98
82) 4-Chlorotoluene	11.451	91	818099	152.602	ug/l		99
83) tert-Butylbenzene	11.713	119	838979	149.610	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	838584	153.274	ug/l		99
85) sec-Butylbenzene	11.890	105	1061101	152.806	ug/l		100
86) p-Isopropyltoluene	12.006	119	865491	154.987	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	433384	152.175	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	432987	150.362	ug/l		100
89) n-Butylbenzene	12.329	91	827359	167.469	ug/l		100
90) Hexachloroethane	12.536	117	175414	167.760	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	417167	149.042	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	73593	171.783	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	283004	167.095	ug/l		98
94) Hexachlorobutadiene	13.725	225	104674	155.682	ug/l		97
95) Naphthalene	13.774	128	1015801	165.916	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	282289	165.408	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

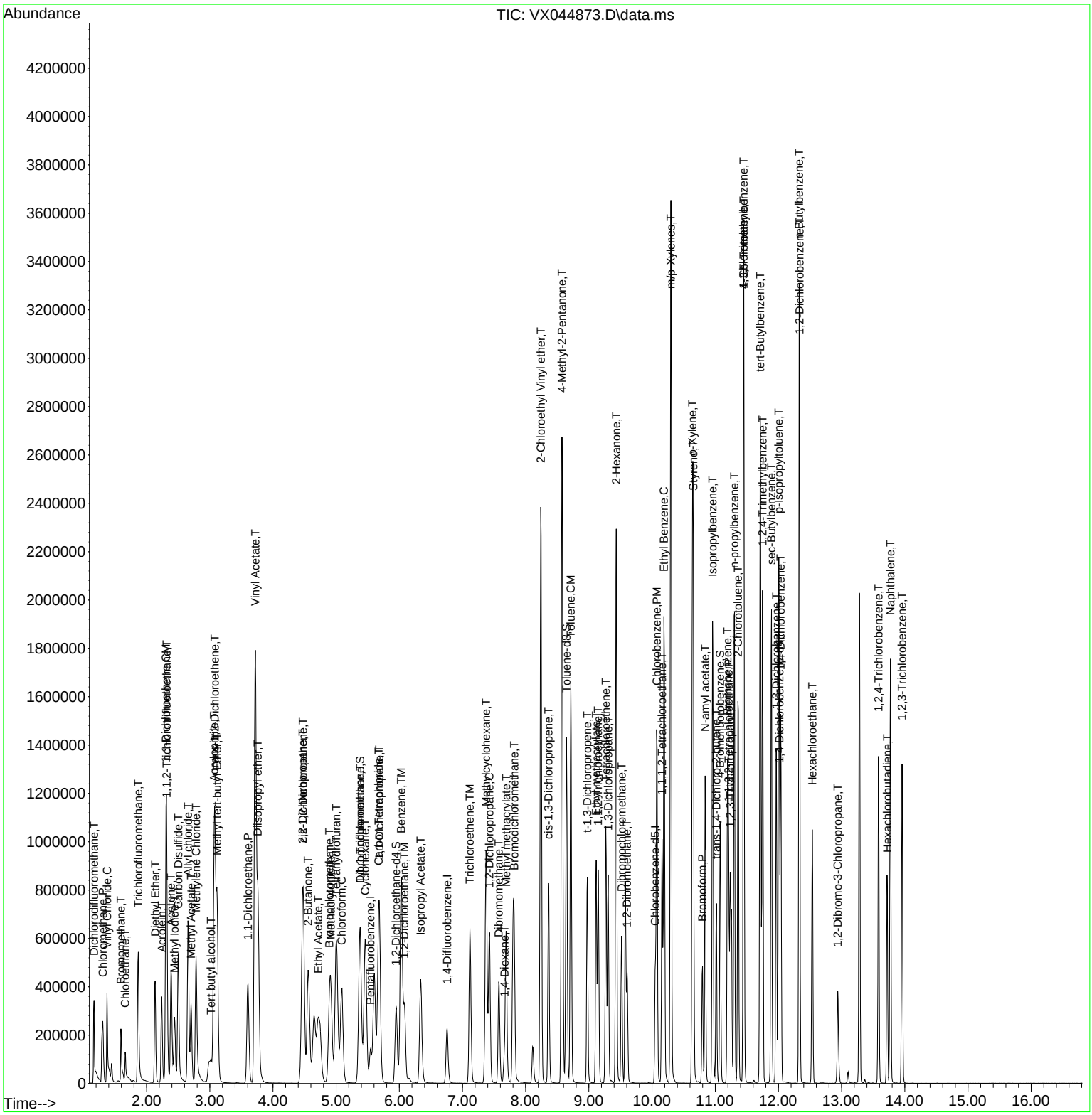
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

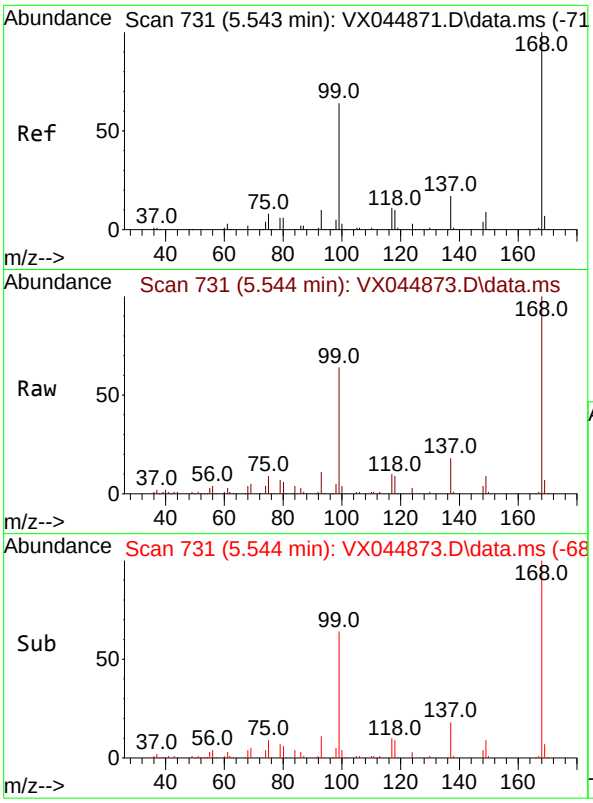
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



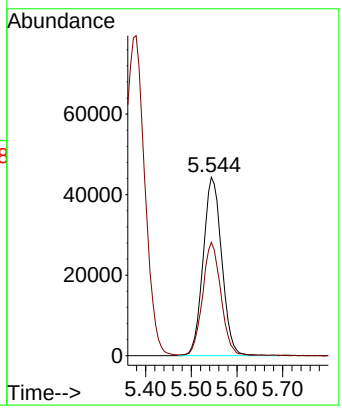


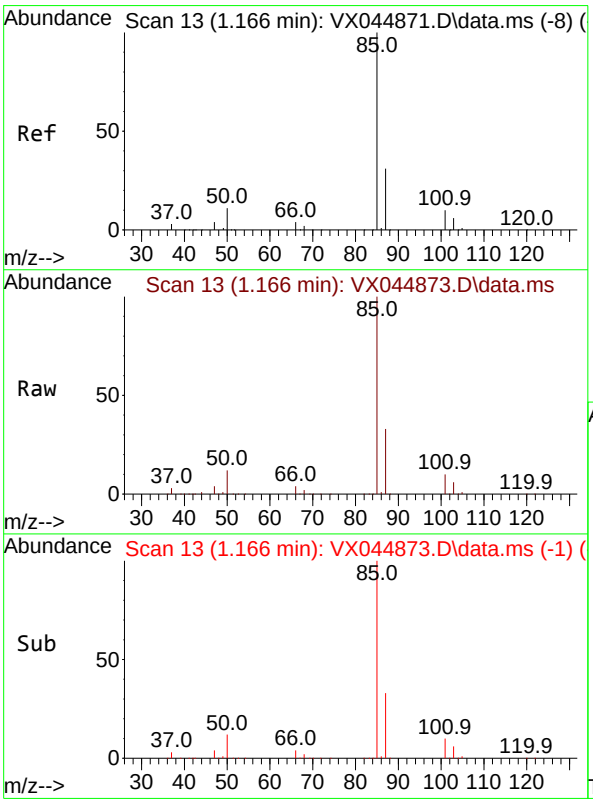
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 125253

Ion	Ratio	Lower	Upper
168	100		
99	63.2	51.2	76.8

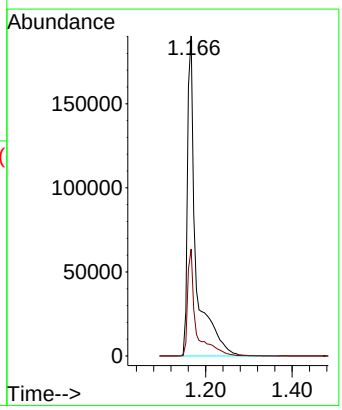


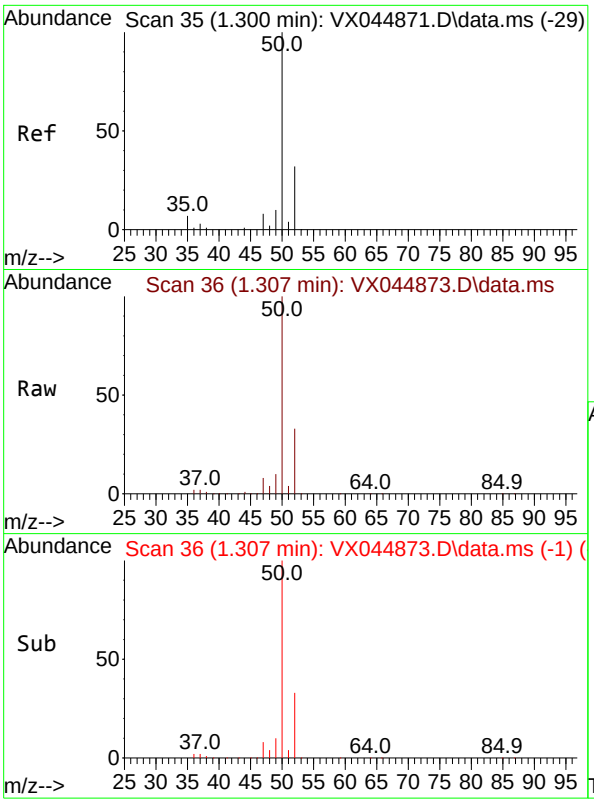


#2
Dichlorodifluoromethane
Concen: 148.330 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 85 Resp: 260576

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.8	47.3



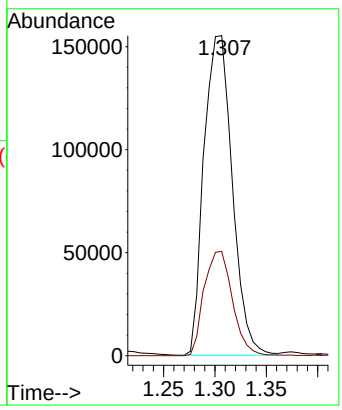


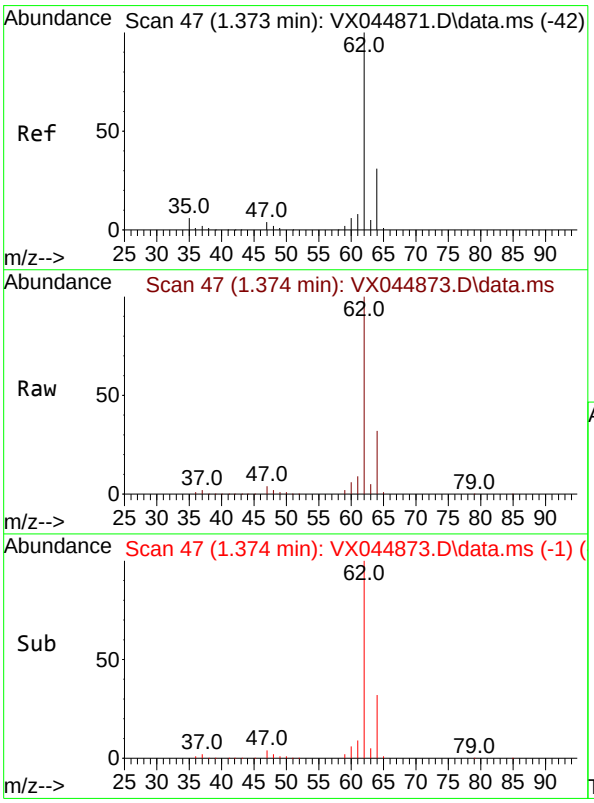
#3
Chloromethane
Concen: 139.361 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 297968

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.9	38.9

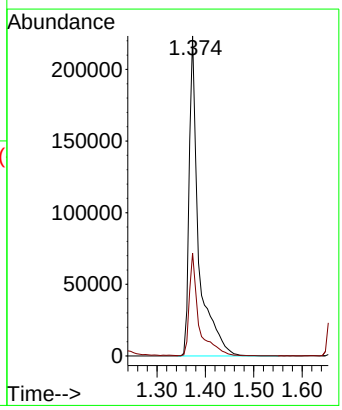


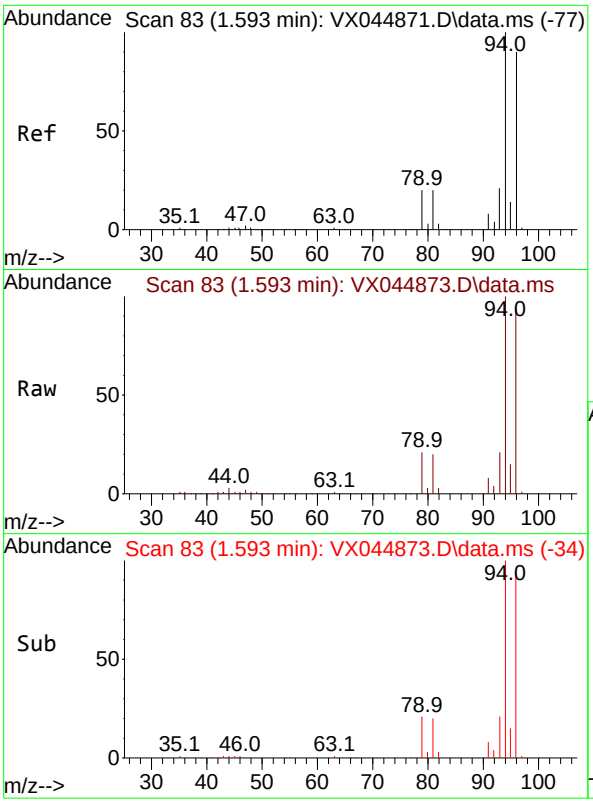


#4
Vinyl Chloride
Concen: 147.723 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 305986

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0



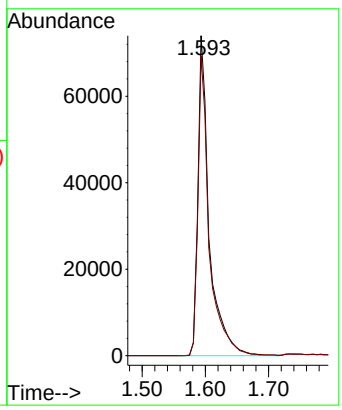


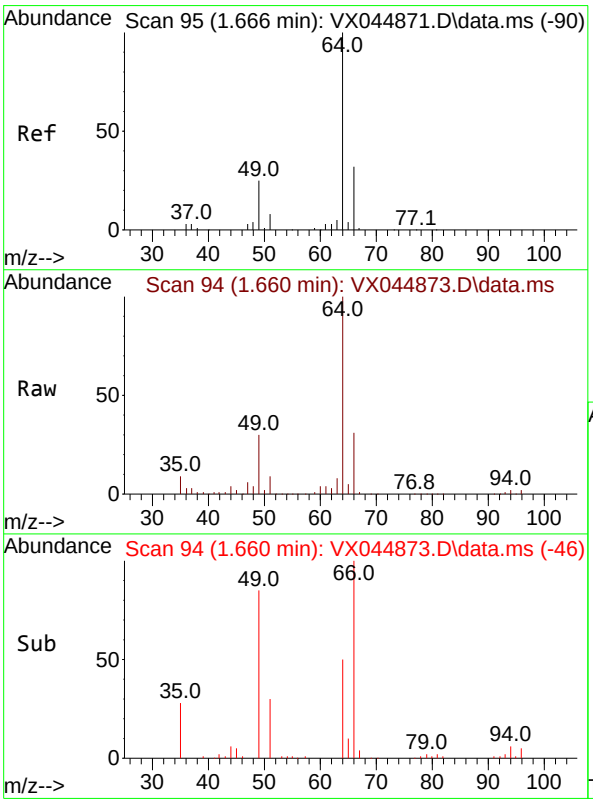
#5
Bromomethane
Concen: 149.071 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 92399

Ion	Ratio	Lower	Upper
94	100		
96	93.6	71.6	107.4

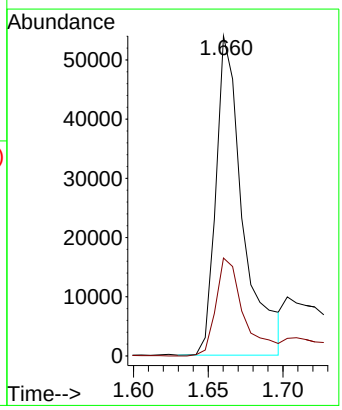


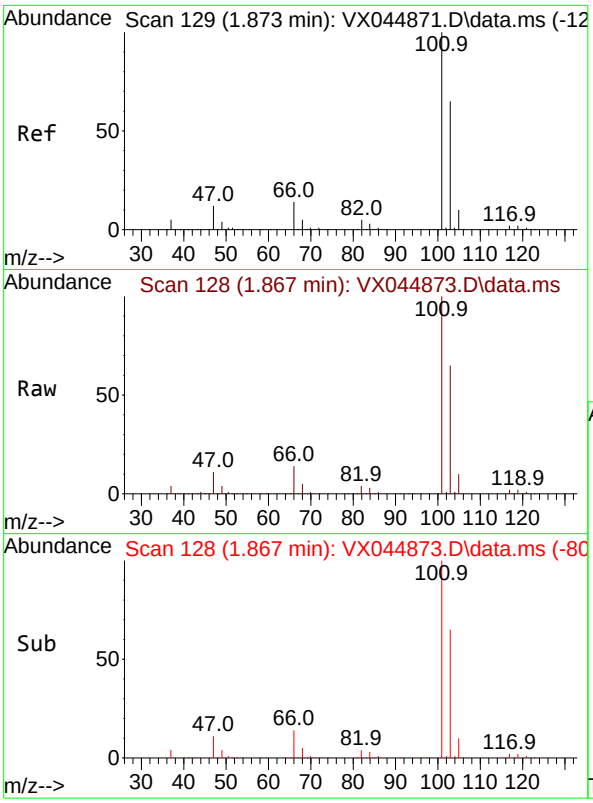


#6
Chloroethane
Concen: 130.289 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 64 Resp: 67889

Ion	Ratio	Lower	Upper
64	100		
66	30.7	25.9	38.9



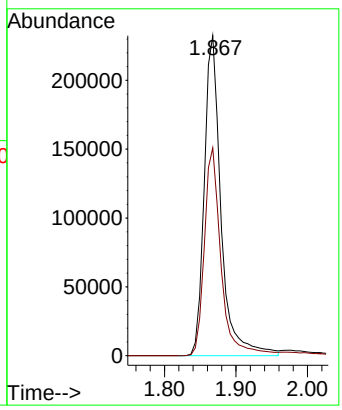


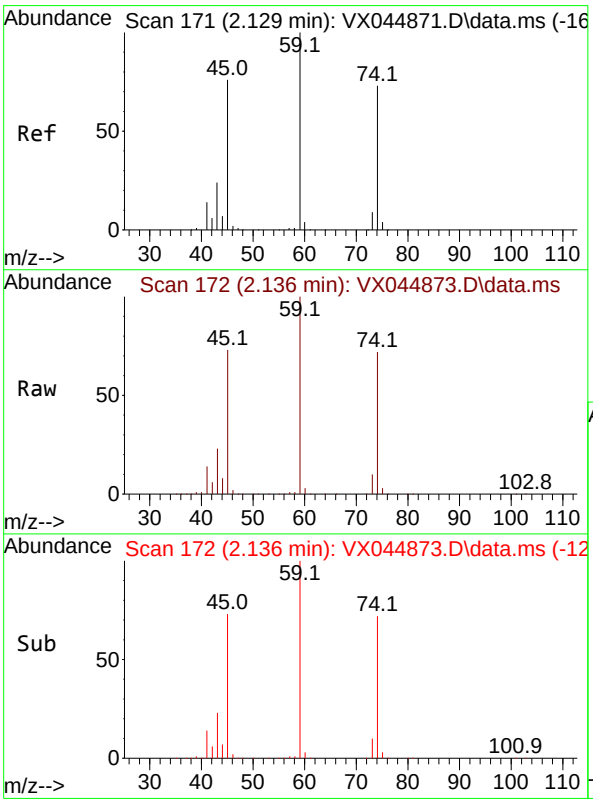
#7
Trichlorofluoromethane
Concen: 144.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 378664

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.4	78.6

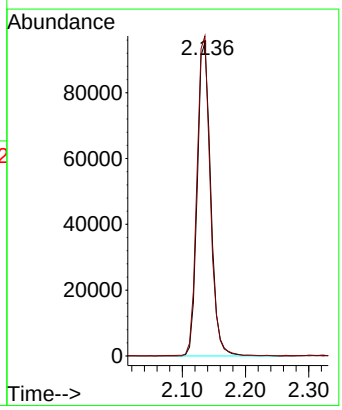


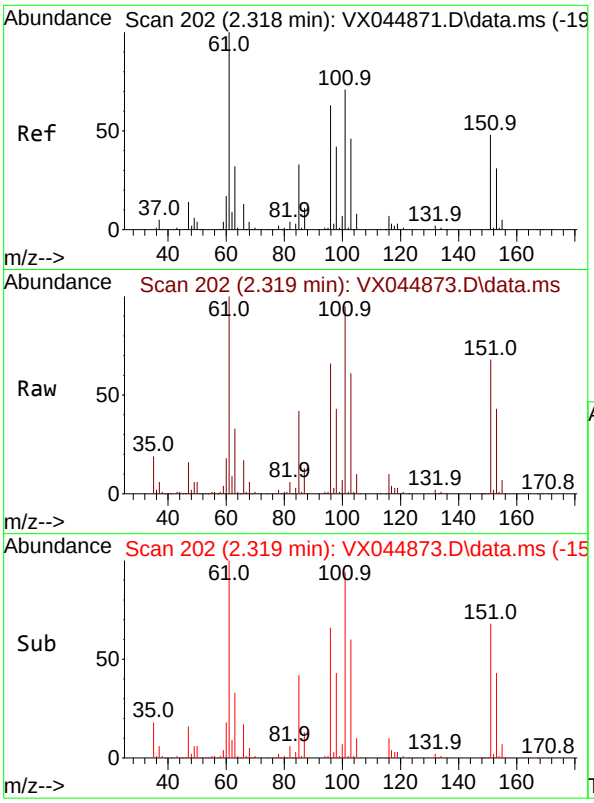


#8
Diethyl Ether
Concen: 147.822 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 74 Resp: 140428

Ion	Ratio	Lower	Upper
74	100		
45	102.1	51.1	153.4



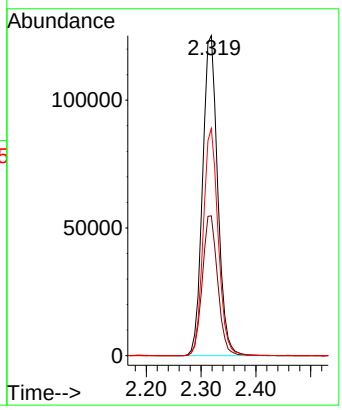


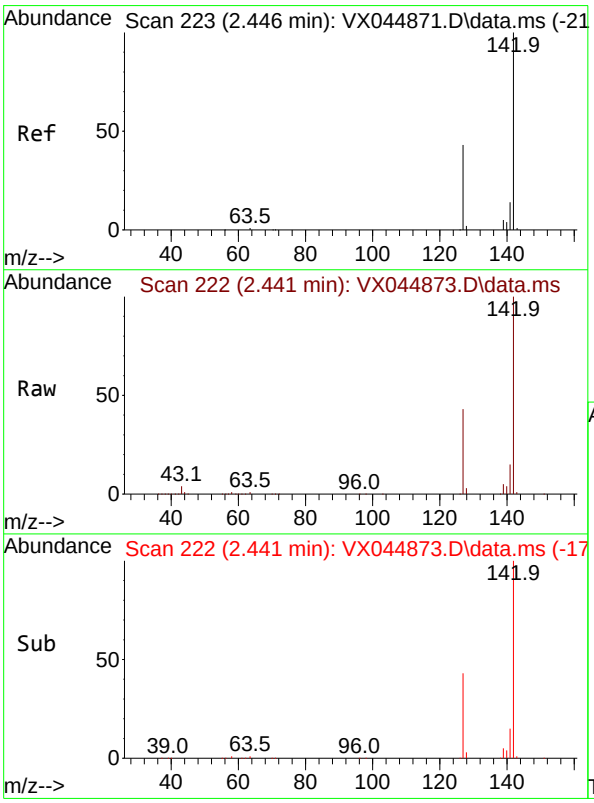
#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.147 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 239215

Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.7	53.5
151	70.2	56.0	84.0

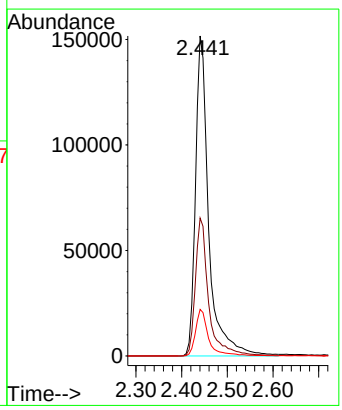


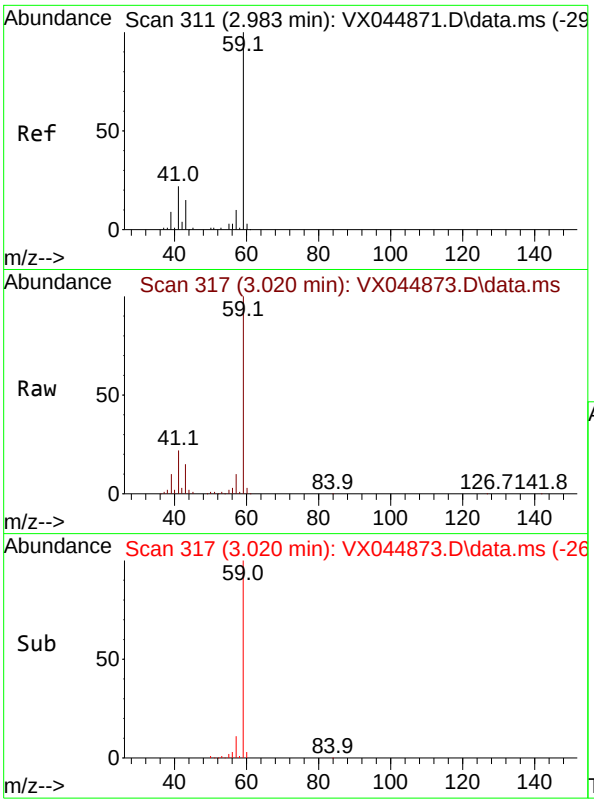


#10
Methyl Iodide
Concen: 148.887 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:142 Resp: 305390

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.4	11.4	17.2



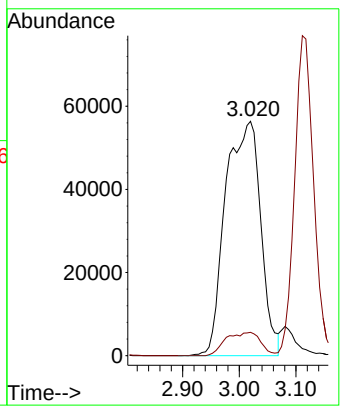


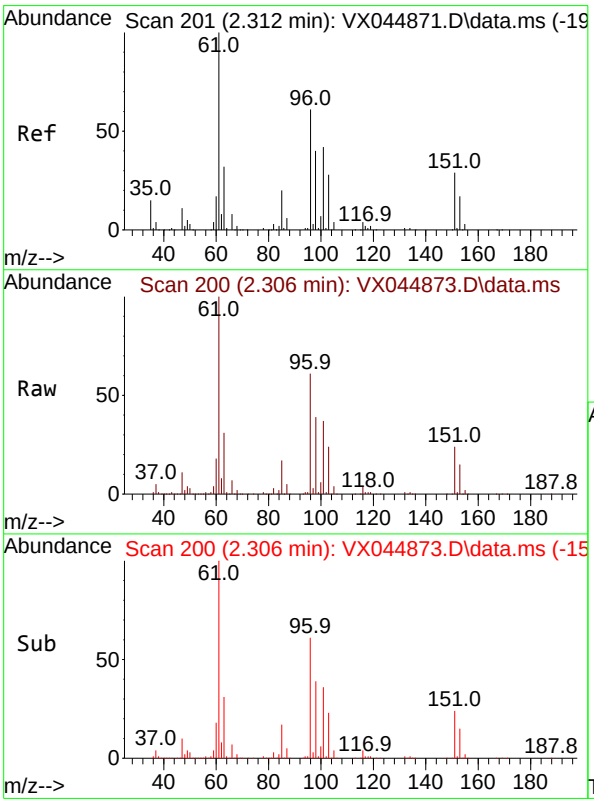
#11
Tert butyl alcohol
Concen: 712.734 ug/l
RT: 3.020 min Scan# 3
Delta R.T. 0.037 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 242430

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1

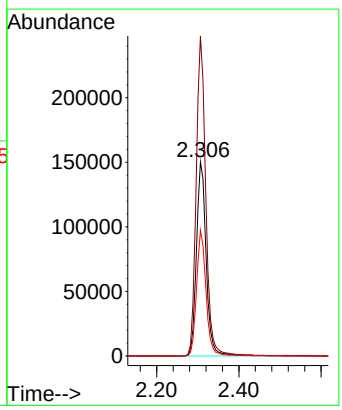


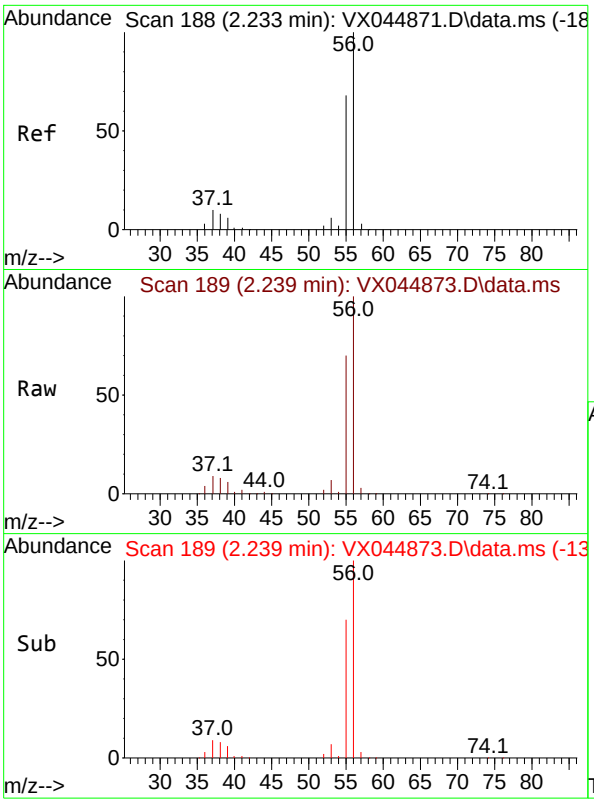


#12
1,1-Dichloroethene
Concen: 152.989 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 96 Resp: 246987

Ion	Ratio	Lower	Upper
96	100		
61	164.9	130.2	195.4
98	64.8	52.2	78.4



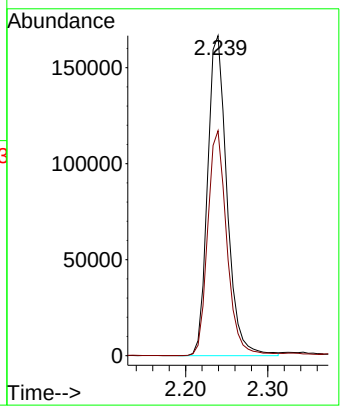


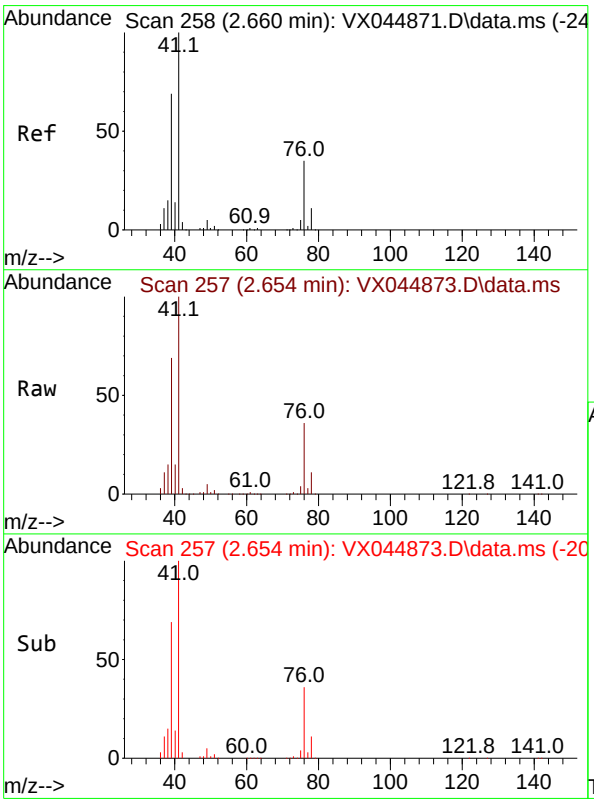
#13
Acrolein
Concen: 778.418 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 273178

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5

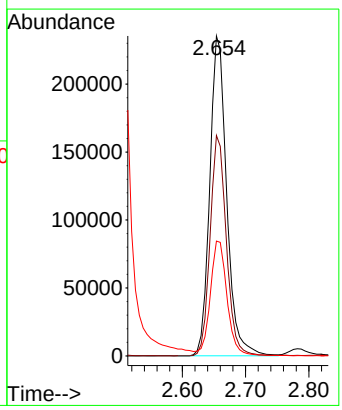


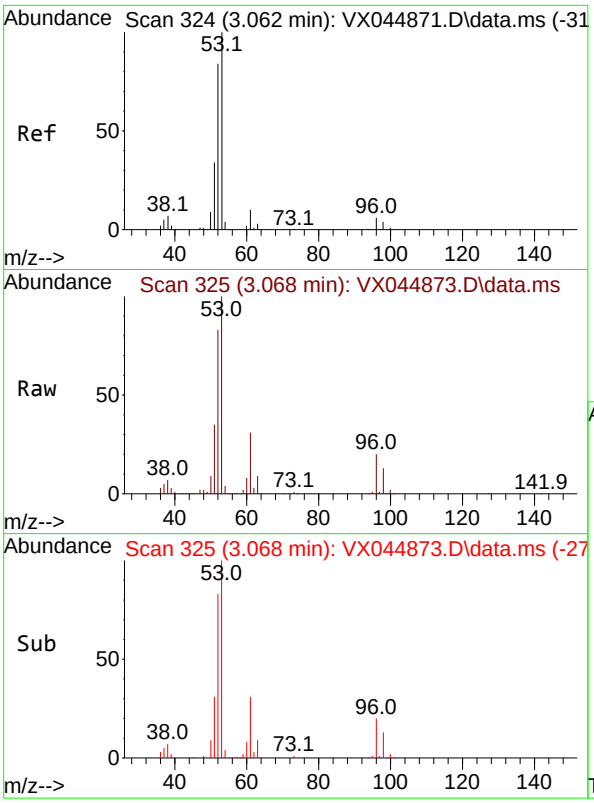


#14
Allyl chloride
Concen: 150.289 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 438493

Ion	Ratio	Lower	Upper
41	100		
39	66.1	51.4	77.2
76	35.7	27.0	40.4



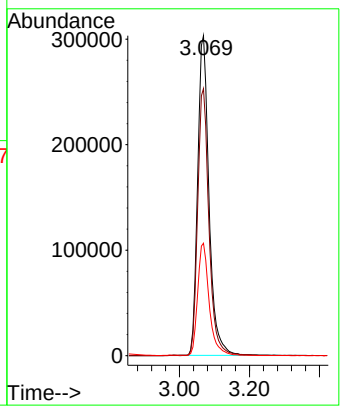


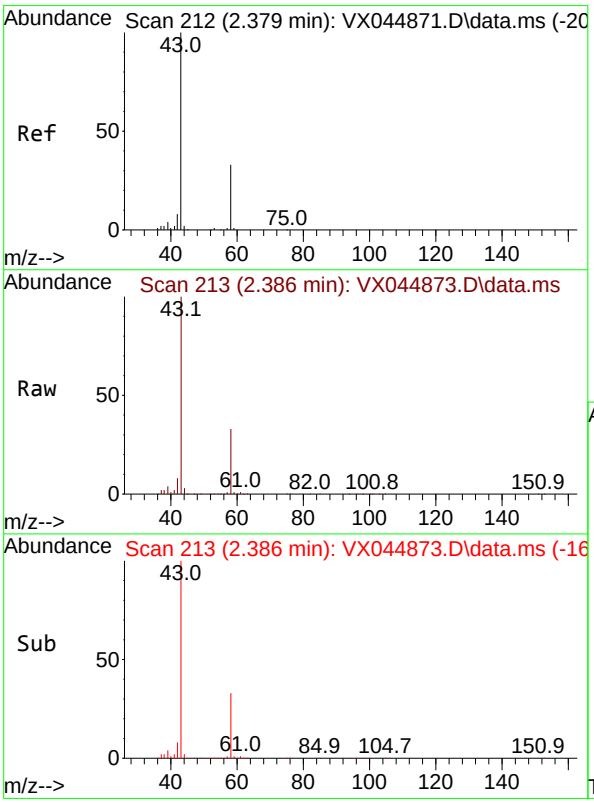
#15
Acrylonitrile
Concen: 753.423 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 684234

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.0	97.6
51	35.2	28.0	42.0

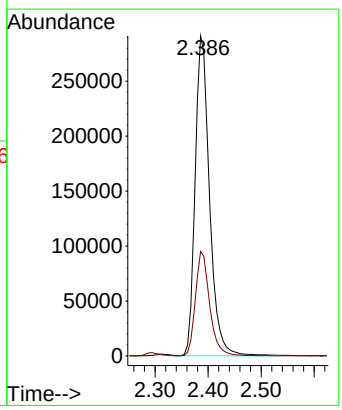


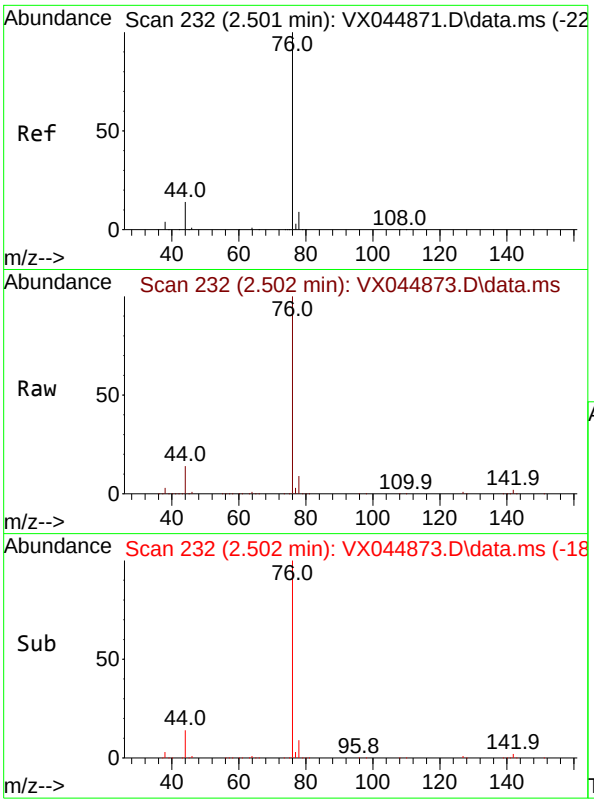


#16
Acetone
Concen: 743.398 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 547939

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7



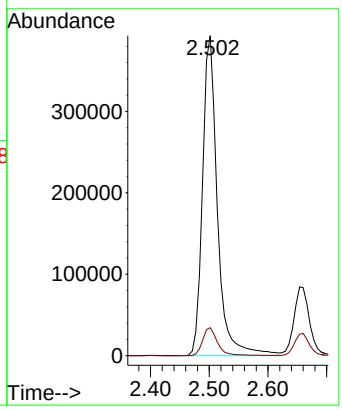


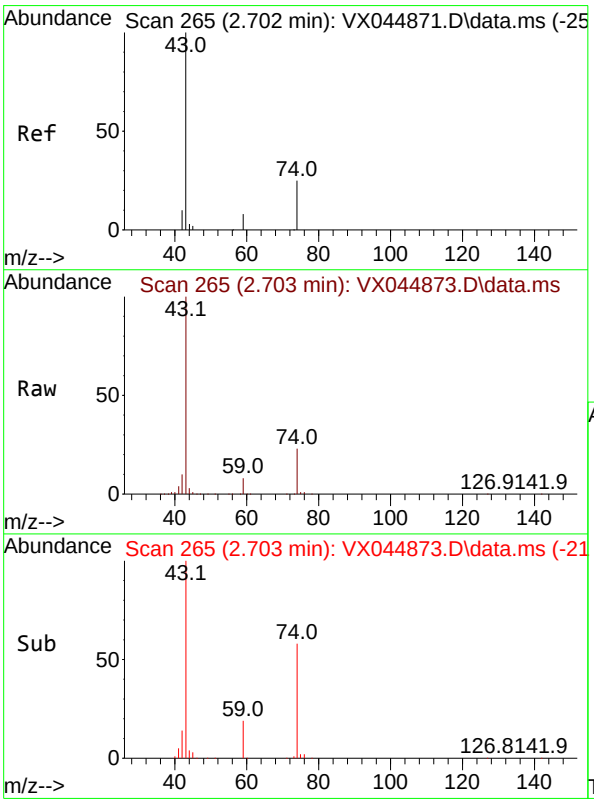
#17
Carbon Disulfide
Concen: 156.665 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 693558

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4

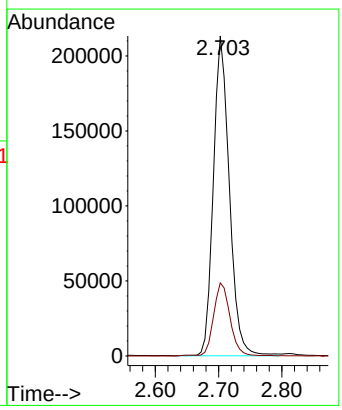


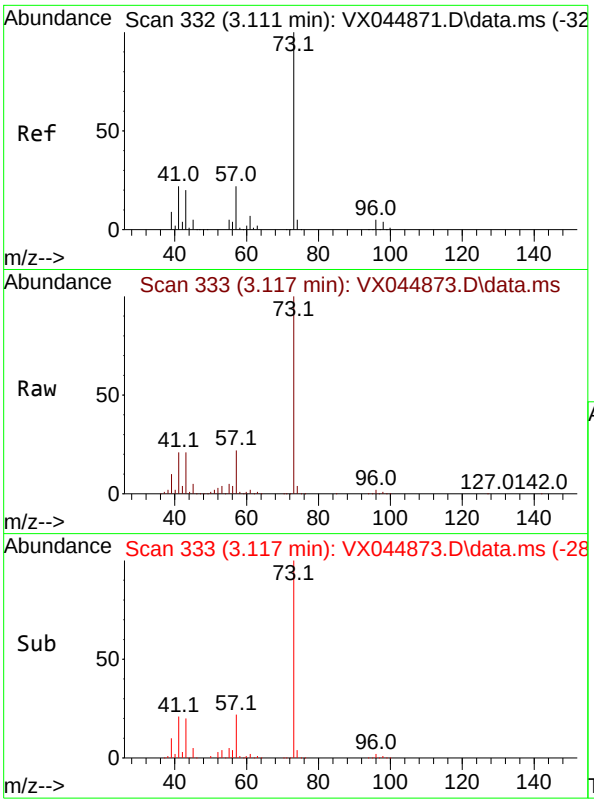


#18
Methyl Acetate
Concen: 160.743 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 373877

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.9	28.3



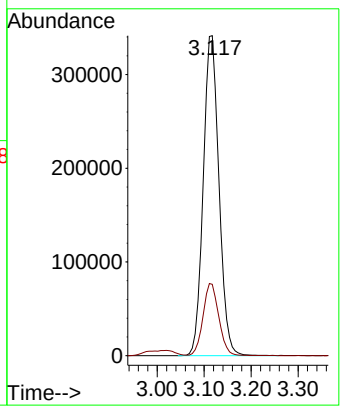


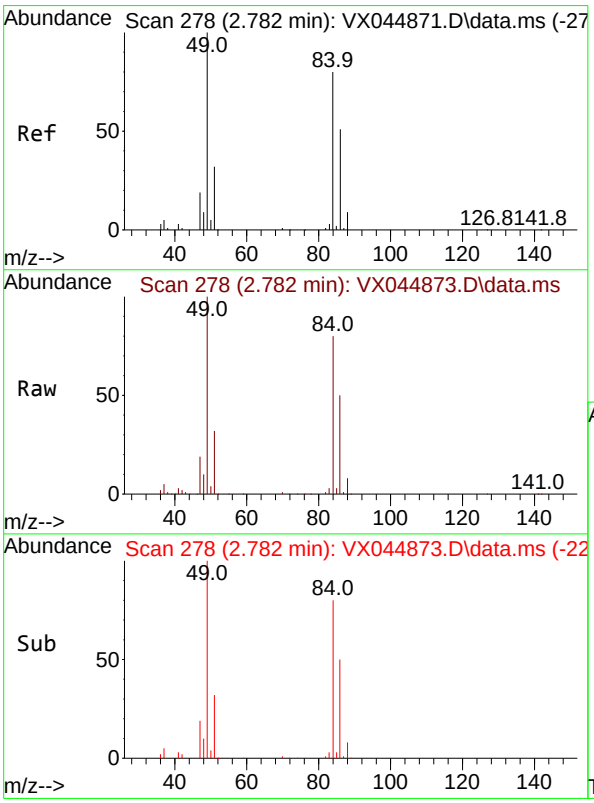
#19
Methyl tert-butyl Ether
Concen: 154.347 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 792810

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9

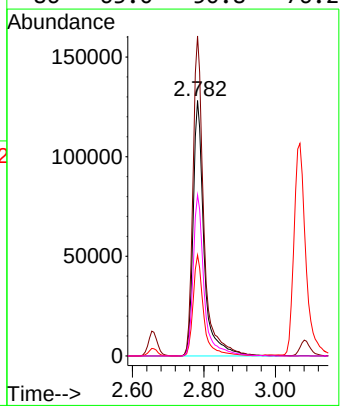


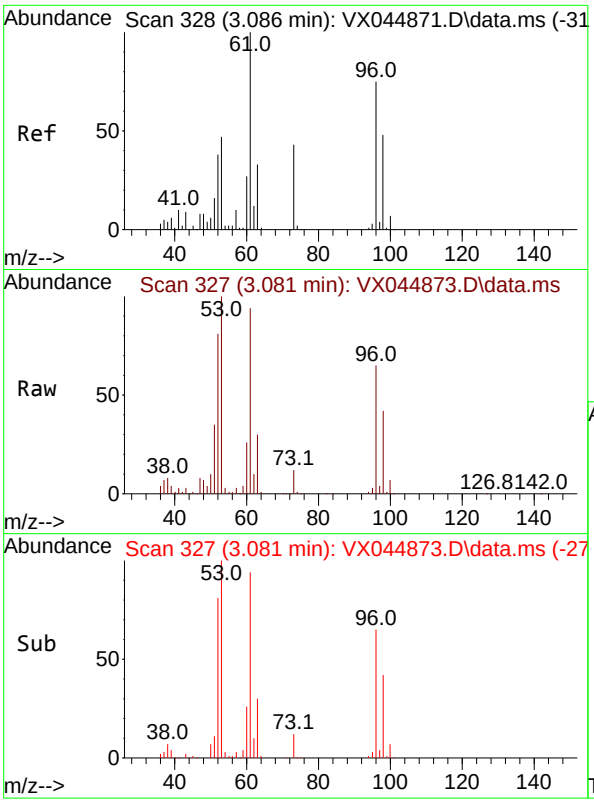


#20
Methylene Chloride
Concen: 149.871 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 84 Resp: 270575

Ion	Ratio	Lower	Upper
84	100		
49	125.2	100.1	150.1
51	39.5	31.7	47.5
86	63.0	50.8	76.2



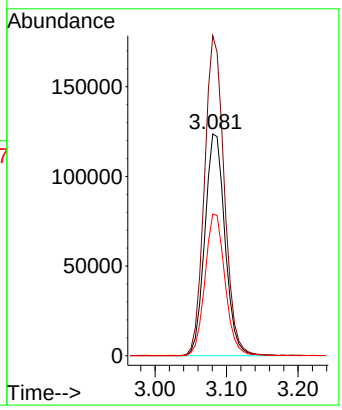


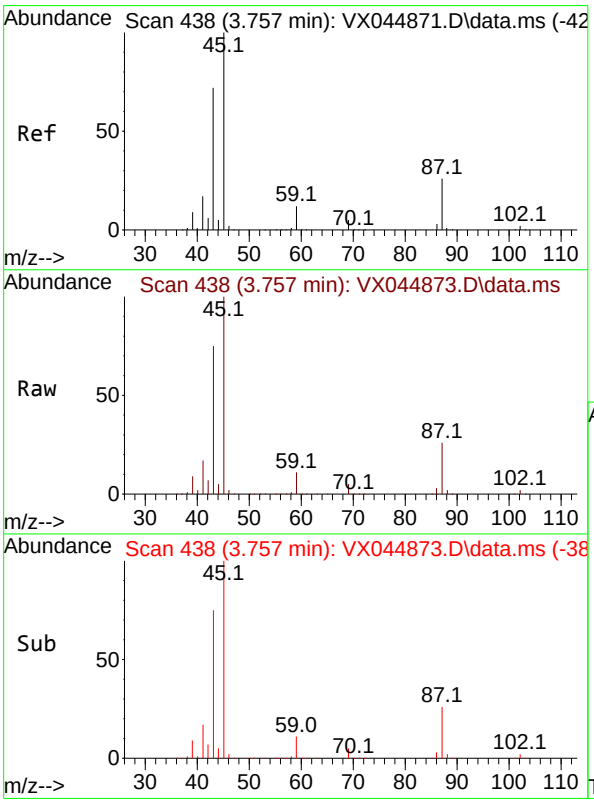
#21
trans-1,2-Dichloroethene
Concen: 152.356 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 242082

Ion	Ratio	Lower	Upper
96	100		
61	144.2	106.0	159.0
98	63.9	50.6	76.0

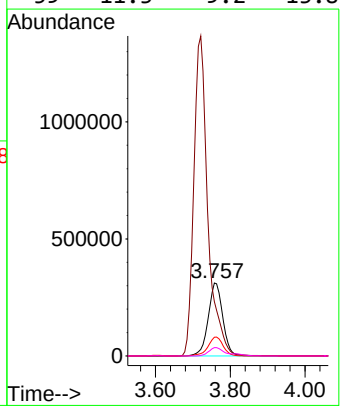


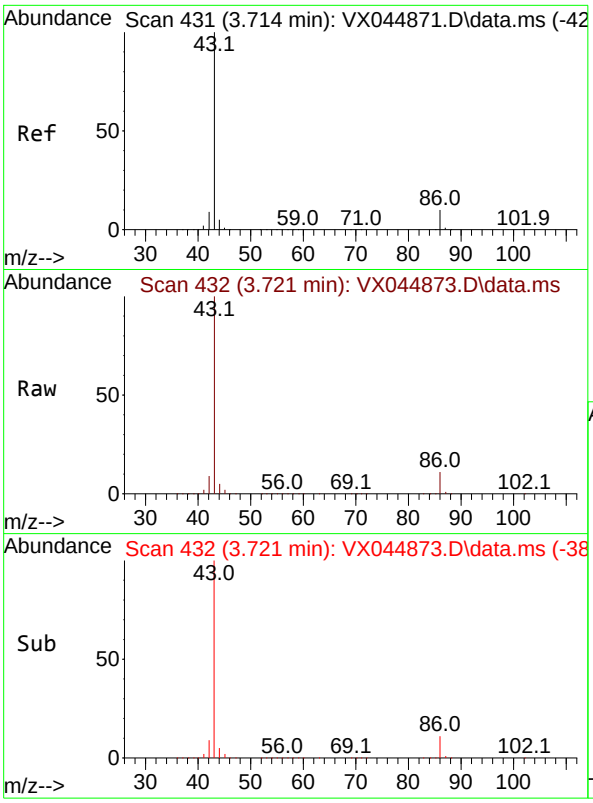


#22
Diisopropyl ether
Concen: 152.020 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 45 Resp: 839126

Ion	Ratio	Lower	Upper
45	100		
43	74.6	58.0	87.0
87	25.8	20.7	31.1
59	11.3	9.2	13.8



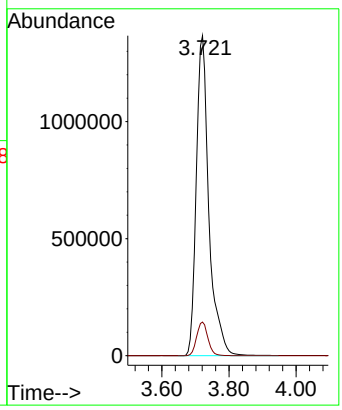


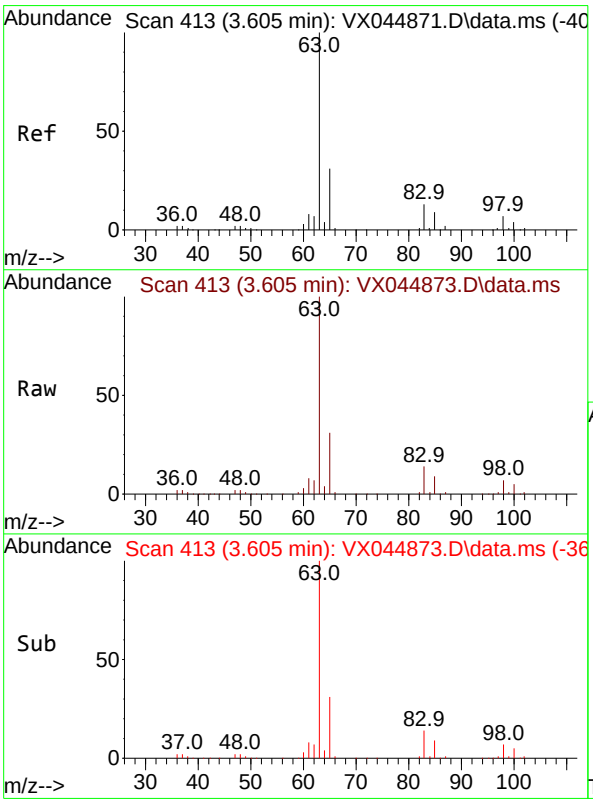
#23
Vinyl Acetate
Concen: 789.993 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 3555031

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.3	12.5

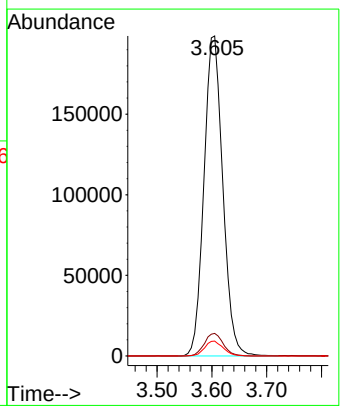


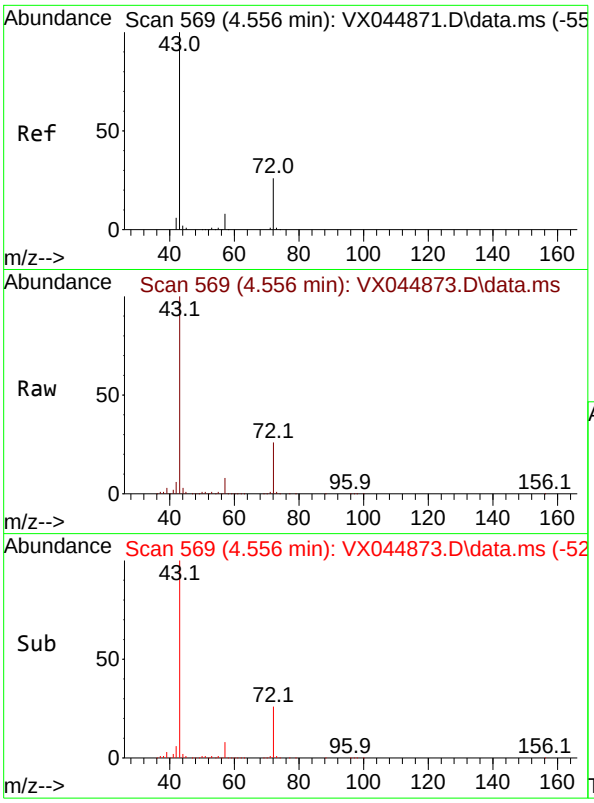


#24
1,1-Dichloroethane
Concen: 152.959 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 472424

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.3	9.9
100	4.6	2.1	6.5



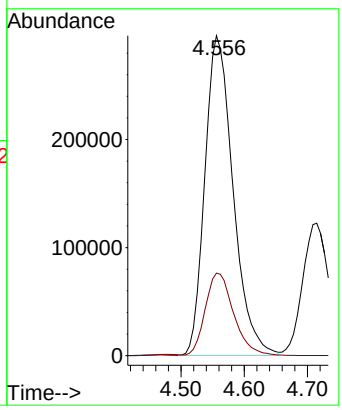


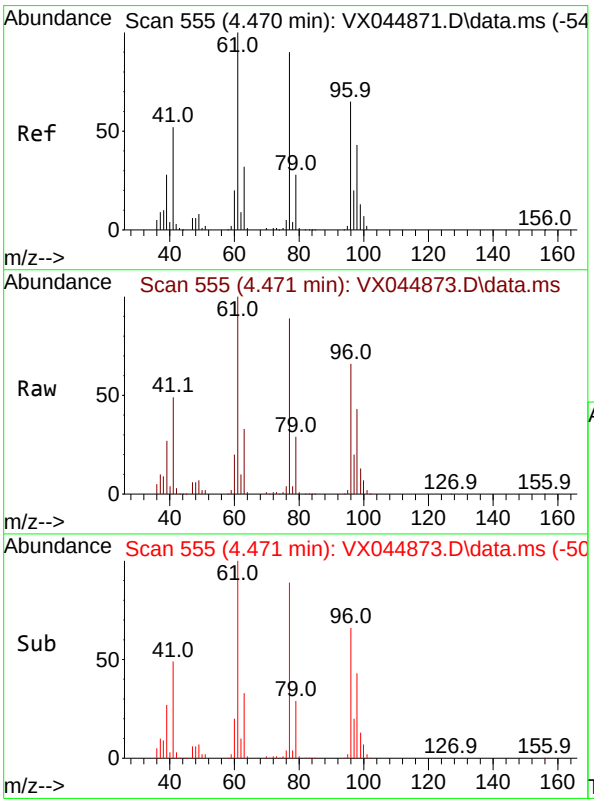
#25
2-Butanone
Concen: 764.276 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 914741

Ion	Ratio	Lower	Upper
43	100		
72	25.6	21.2	31.8

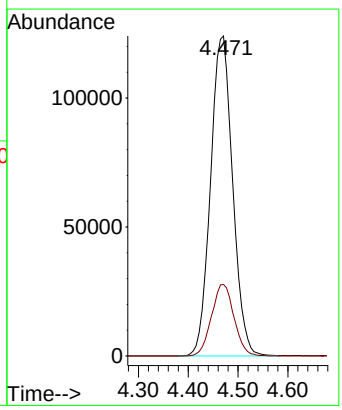


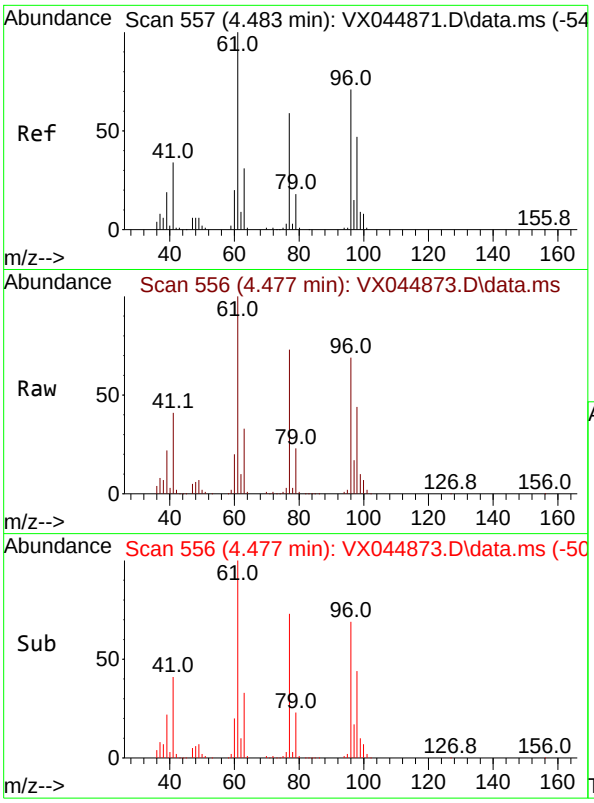


#26
2,2-Dichloropropane
Concen: 156.029 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 77 Resp: 382167

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.8	35.3



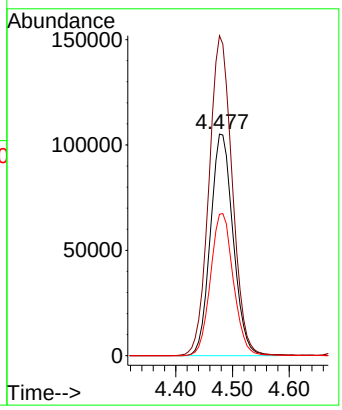


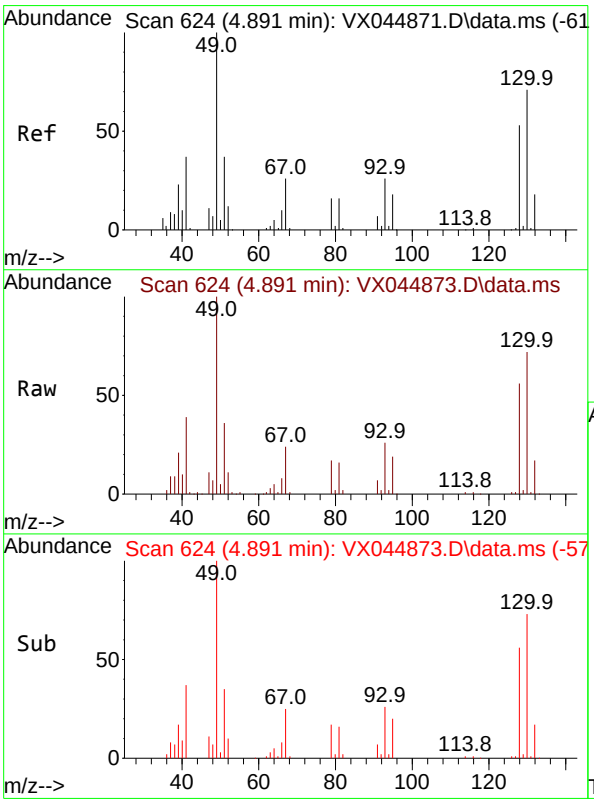
#27
cis-1,2-Dichloroethene
Concen: 153.446 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 292864

Ion	Ratio	Lower	Upper
96	100		
61	148.1	0.0	294.0
98	64.6	0.0	131.2

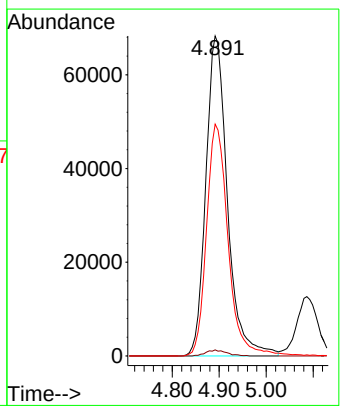


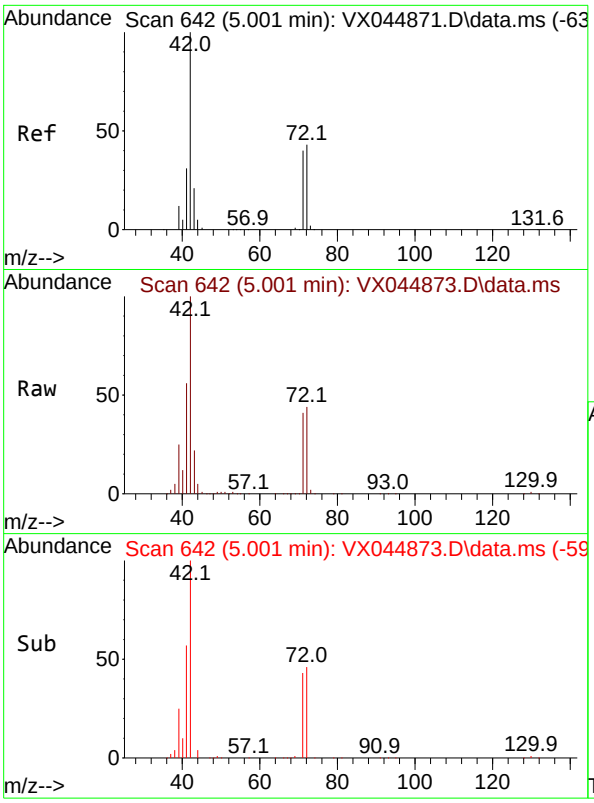


#28
Bromochloromethane
Concen: 146.458 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 49 Resp: 217387

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	72.6	56.7	85.1



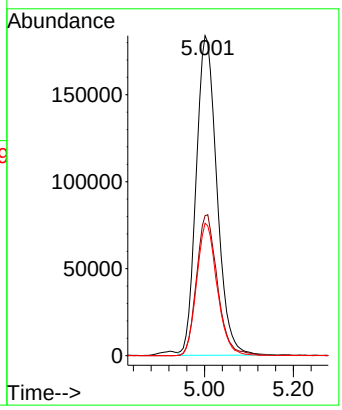


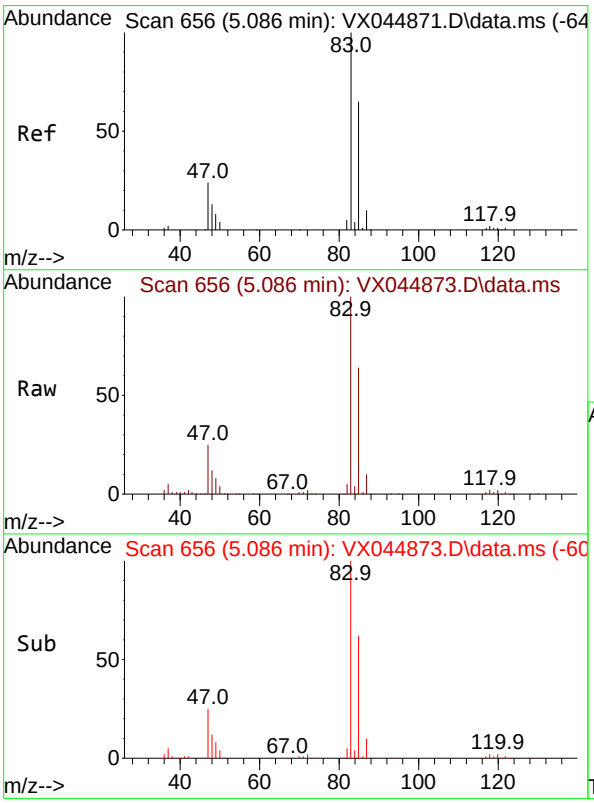
#29
Tetrahydrofuran
Concen: 749.977 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 596045

Ion	Ratio	Lower	Upper
42	100		
72	44.5	35.0	52.4
71	41.0	32.6	48.8

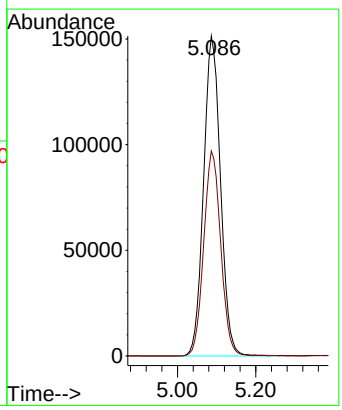


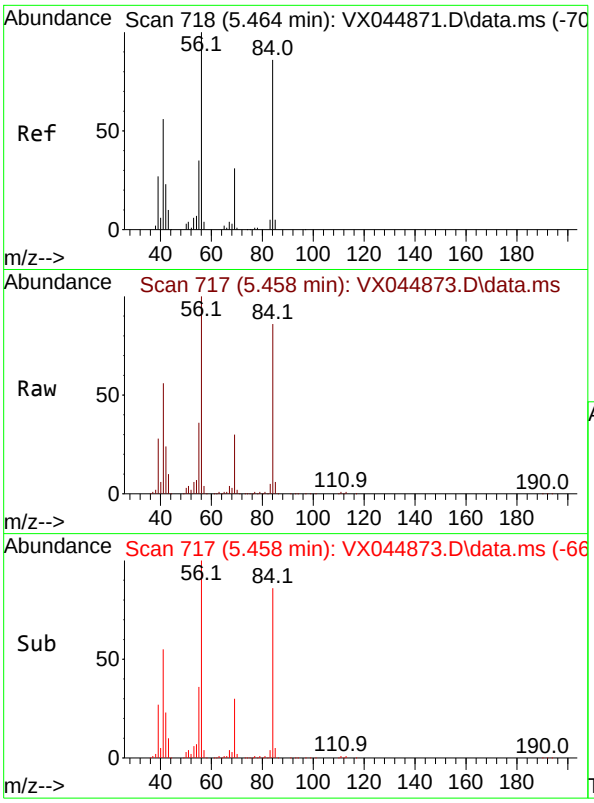


#30
Chloroform
Concen: 151.509 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 453809

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.1	78.1



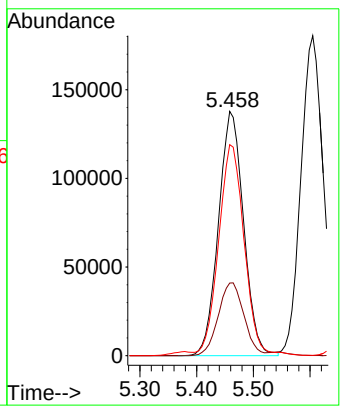


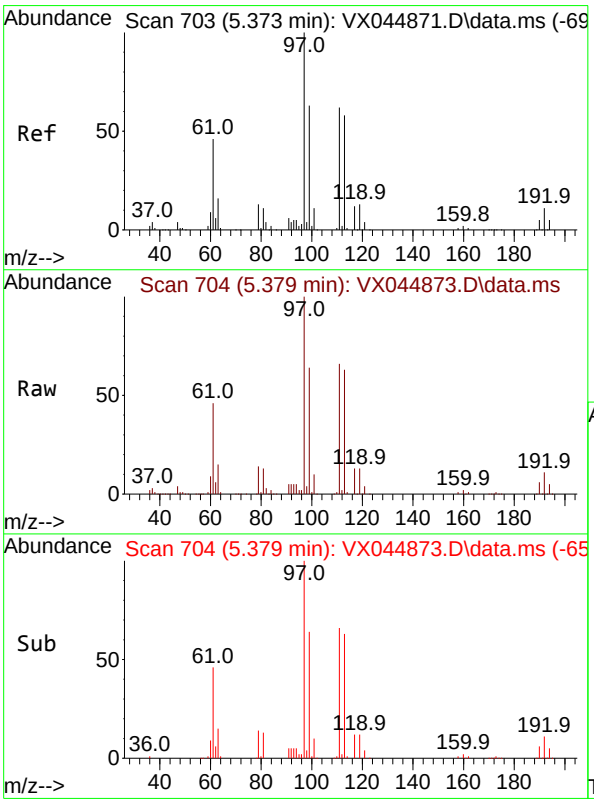
#31
Cyclohexane
Concen: 148.722 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 423464

Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.4	36.6
84	85.0	69.0	103.6

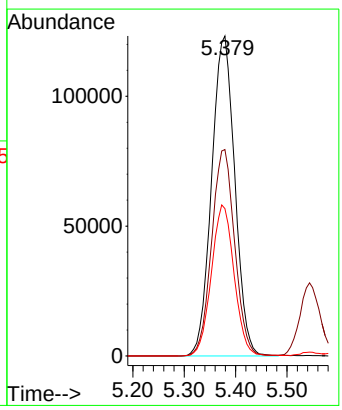


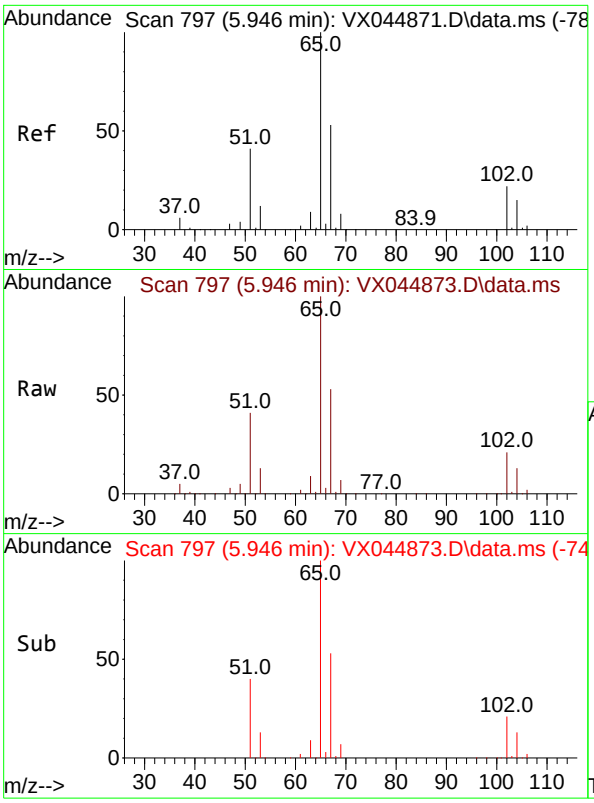


#32
1,1,1-Trichloroethane
Concen: 151.996 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 97 Resp: 386162

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.0	76.6
61	46.4	36.6	55.0



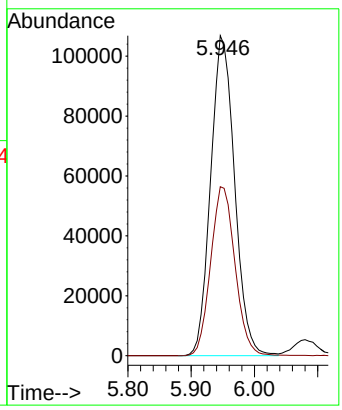


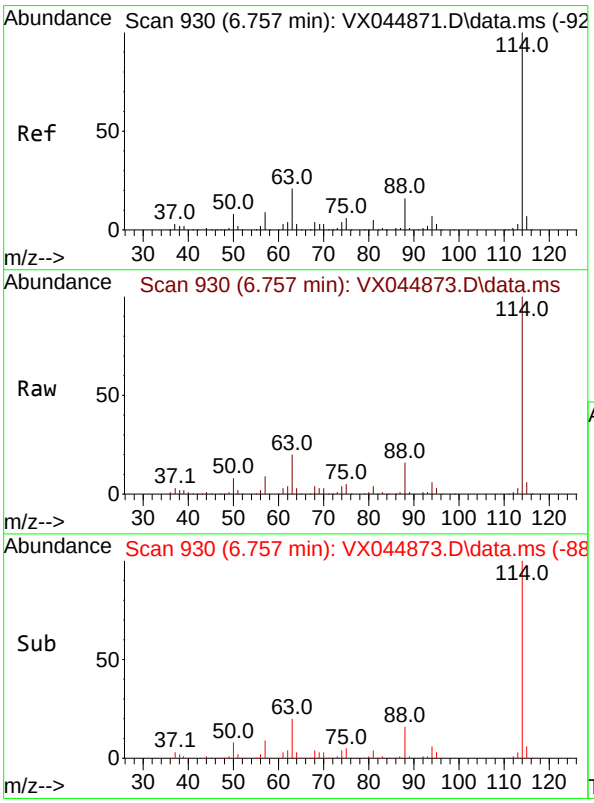
#33
1,2-Dichloroethane-d4
Concen: 153.180 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 280853

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	108.2

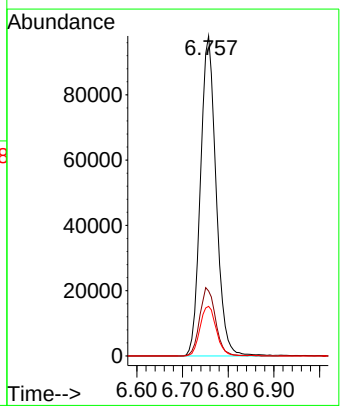


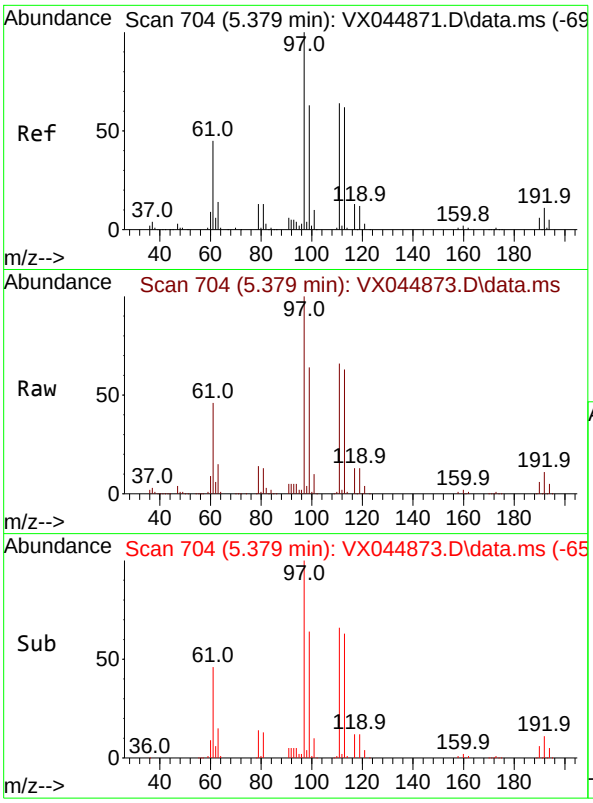


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:114 Resp: 232597

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.4
88	15.5	0.0	31.4



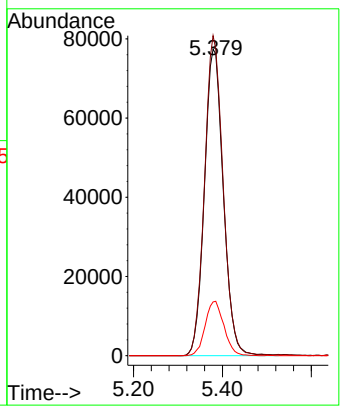


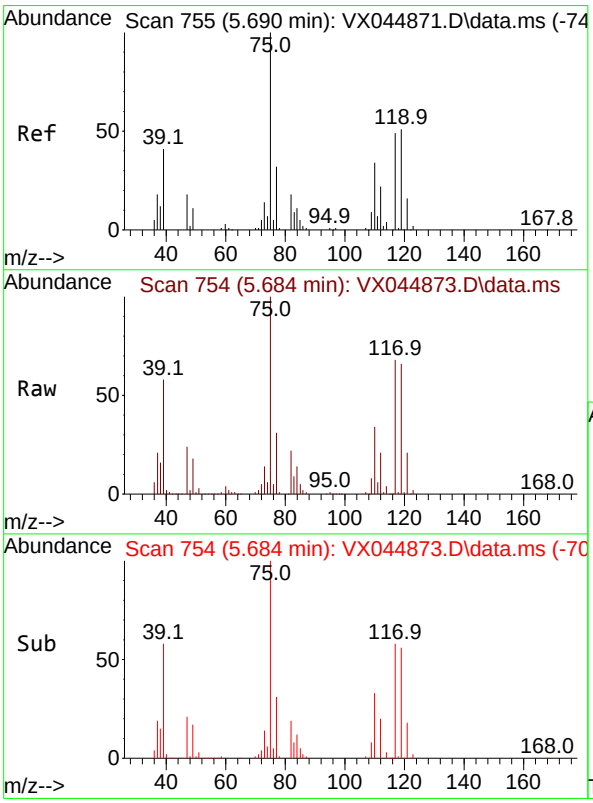
#35
Dibromofluoromethane
Concen: 151.572 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 229218

Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.5	125.3
192	17.6	14.4	21.6

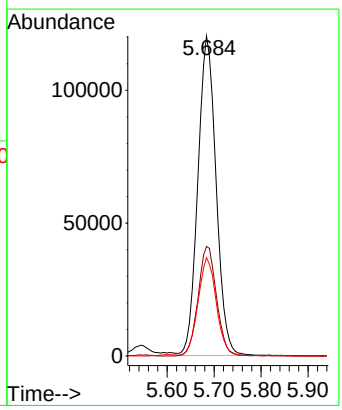


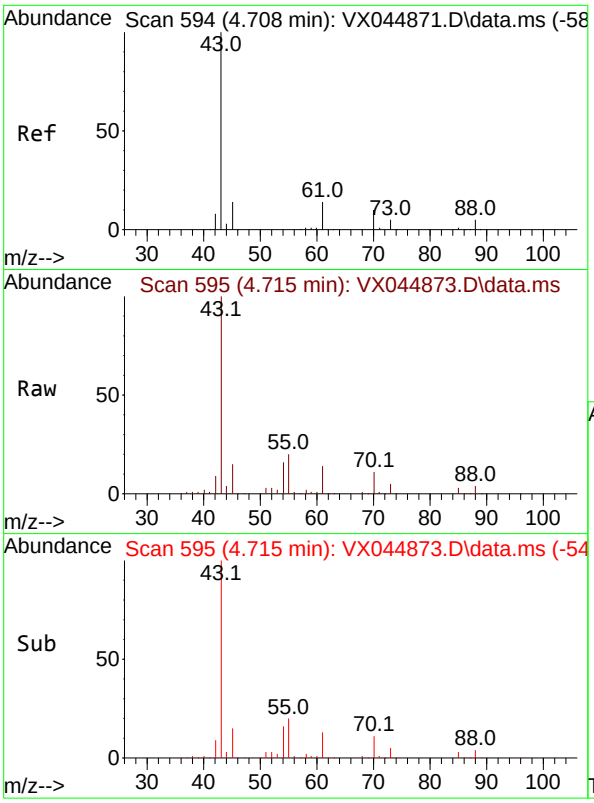


#36
1,1-Dichloropropene
Concen: 148.585 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 324182

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.2	51.6
77	30.9	24.6	37.0



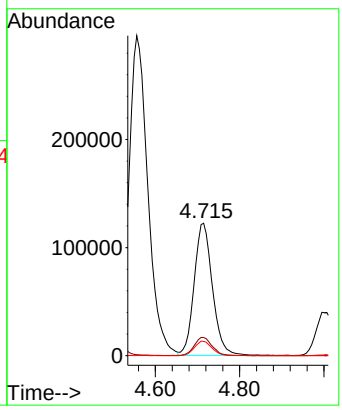


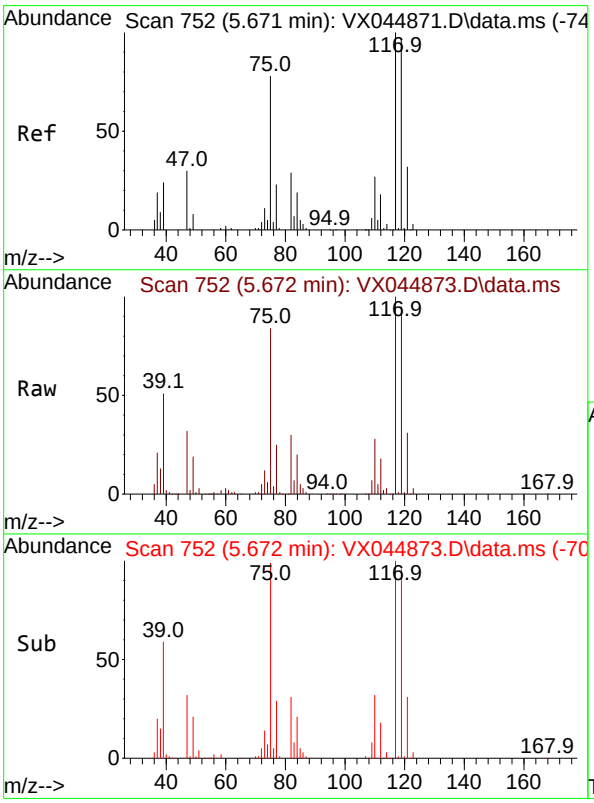
#37
Ethyl Acetate
Concen: 151.956 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 368763

Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.0	16.4
70	10.6	8.2	12.2

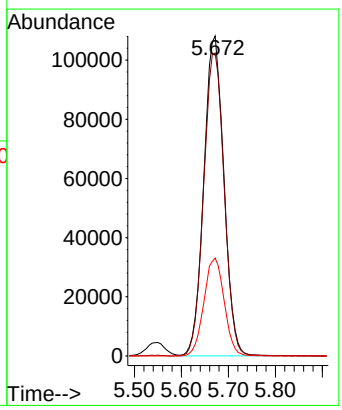


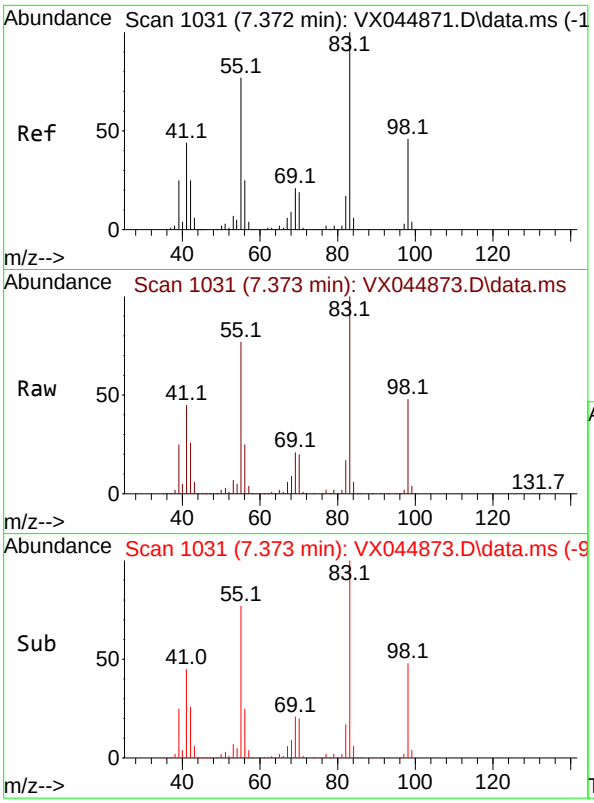


#38
Carbon Tetrachloride
Concen: 149.921 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 320536

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.5	116.3
121	30.6	25.6	38.4



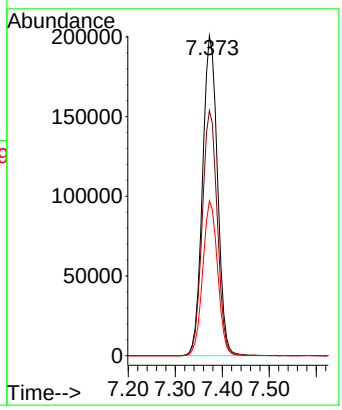


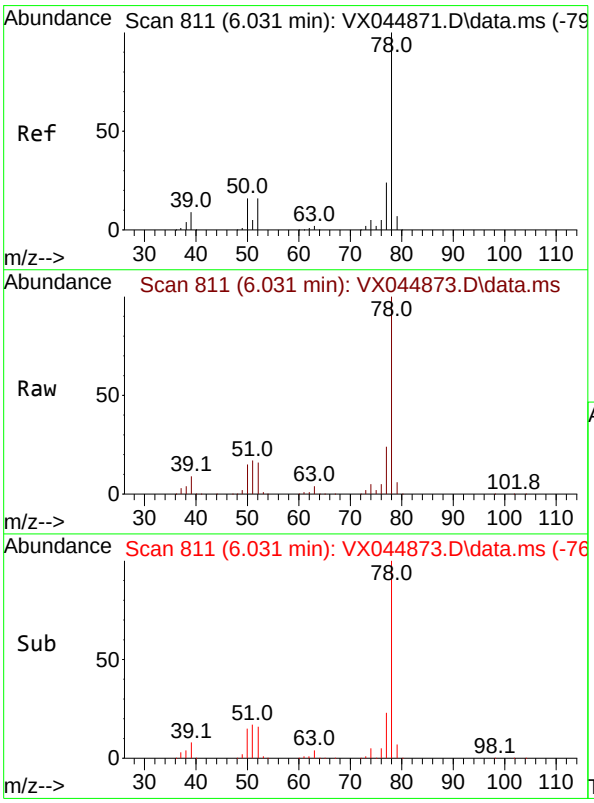
#39
Methylcyclohexane
Concen: 157.130 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 443218

Ion	Ratio	Lower	Upper
83	100		
55	76.5	61.3	91.9
98	48.4	37.0	55.6

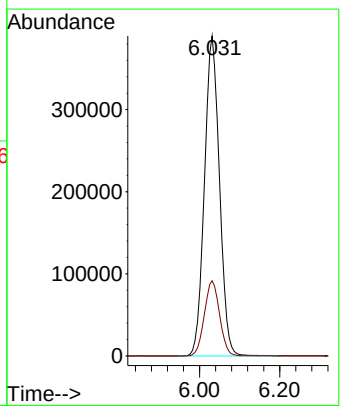


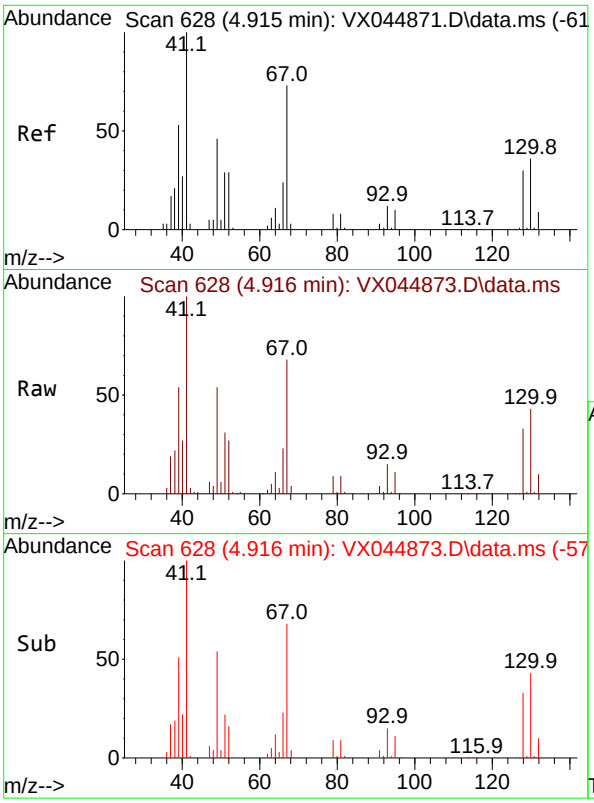


#40
Benzene
Concen: 148.856 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 78 Resp: 1014129

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6



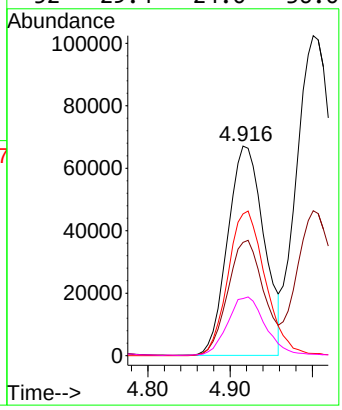


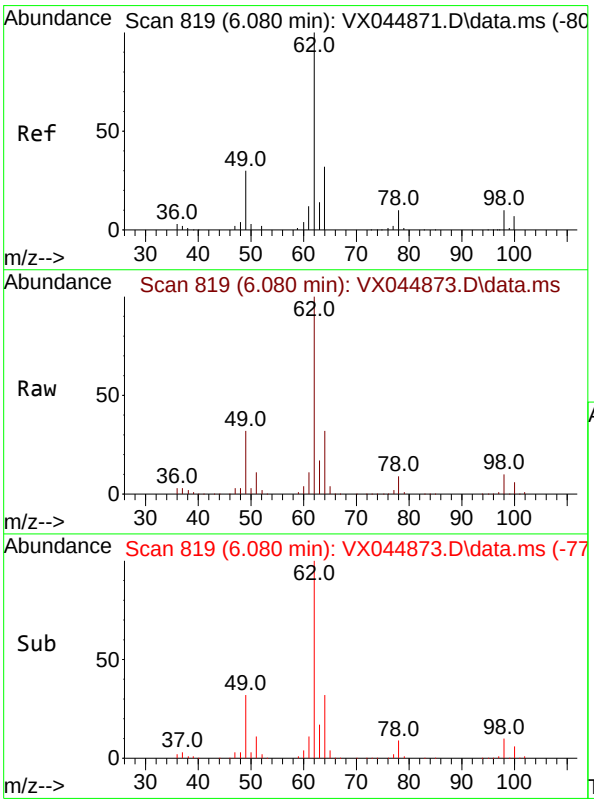
#41
Methacrylonitrile
Concen: 158.707 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 206155

Ion	Ratio	Lower	Upper
41	100		
39	54.2	43.1	64.7
67	71.4	57.0	85.6
52	29.4	24.0	36.0

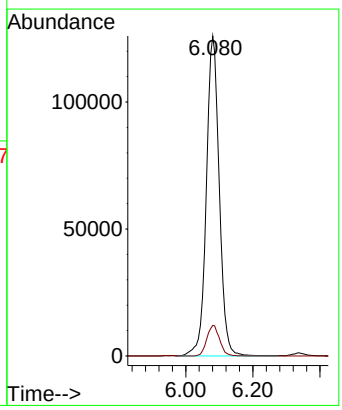


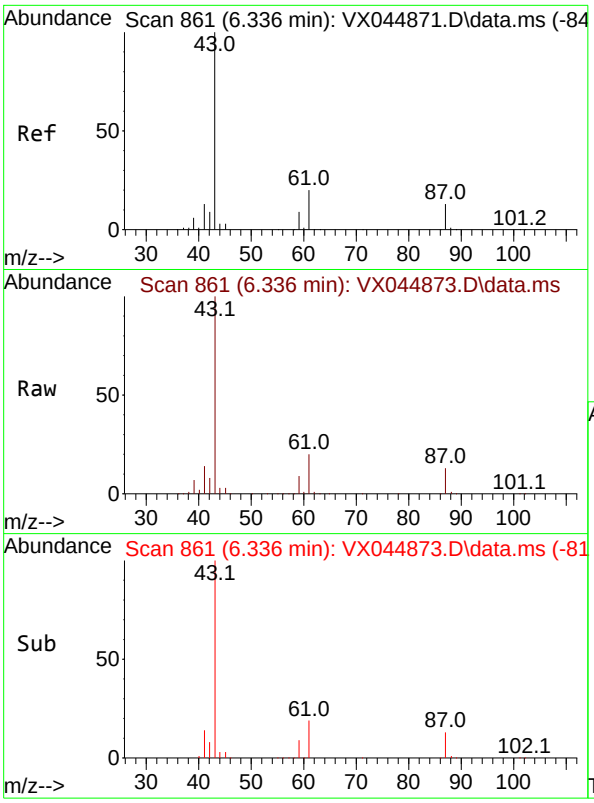


#42
1,2-Dichloroethane
Concen: 154.984 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 336520

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.4



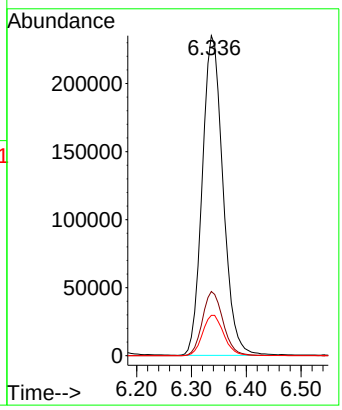


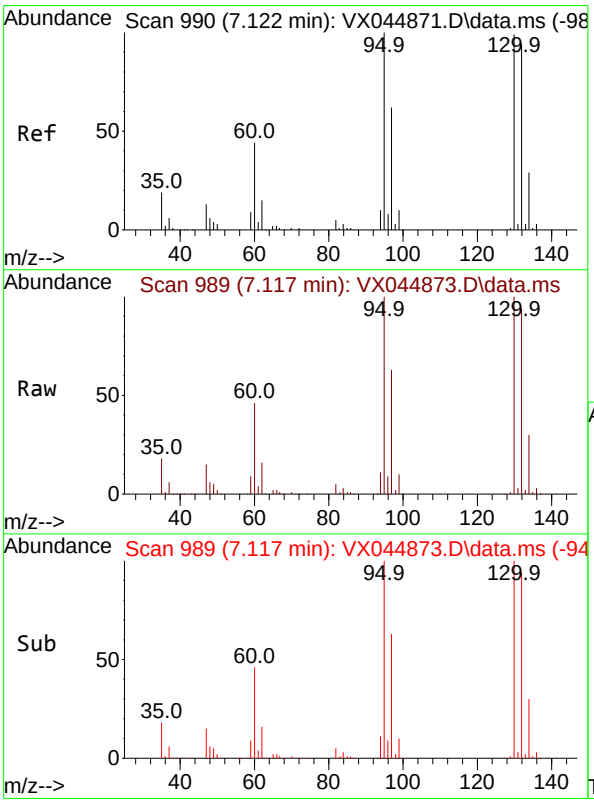
#43
Isopropyl Acetate
Concen: 157.575 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 617516

Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.8	23.8
87	12.9	10.0	15.0

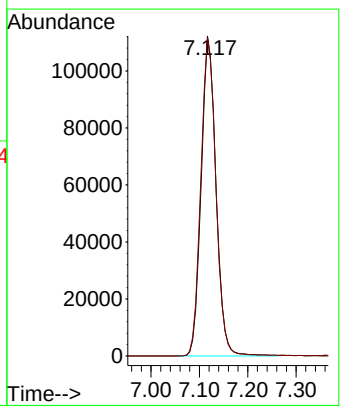


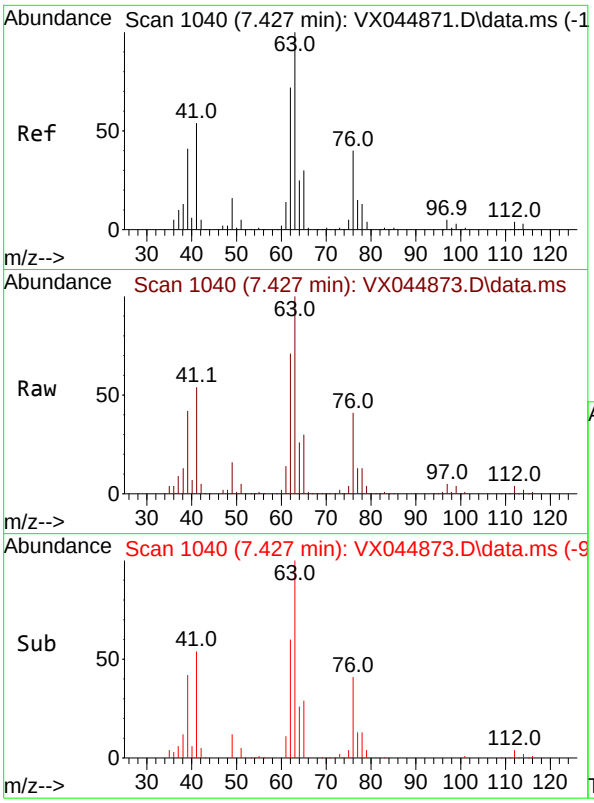


#44
Trichloroethene
Concen: 153.496 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:130 Resp: 239030

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	202.4



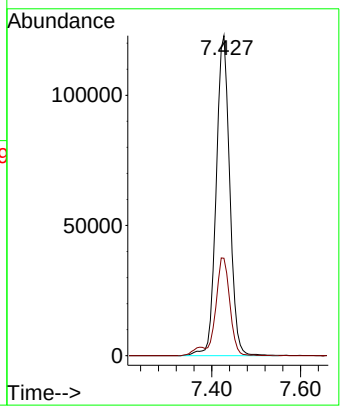


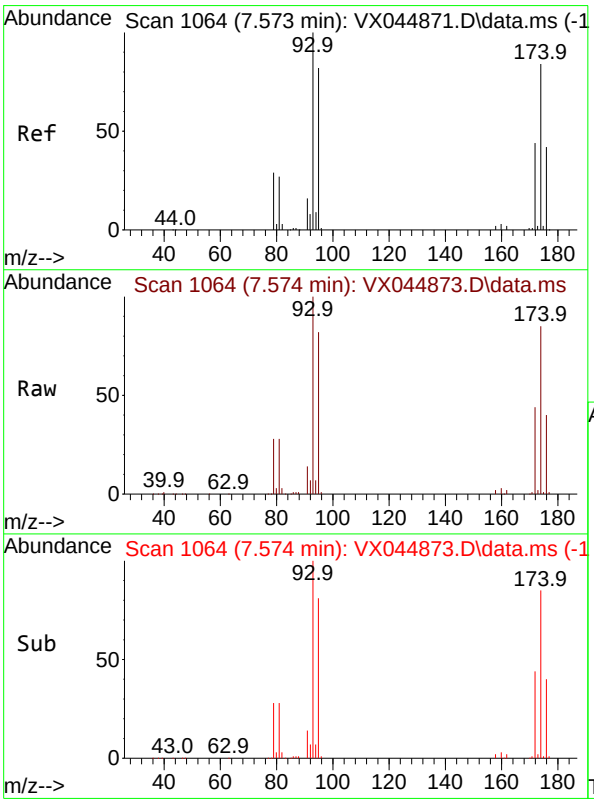
#45
1,2-Dichloropropane
Concen: 153.076 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 259454

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.2	36.4

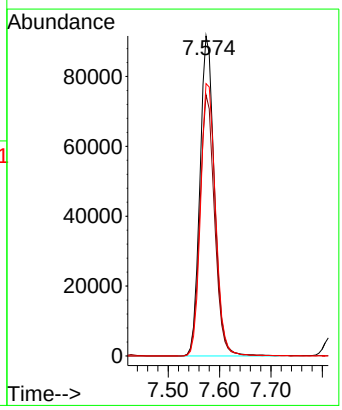


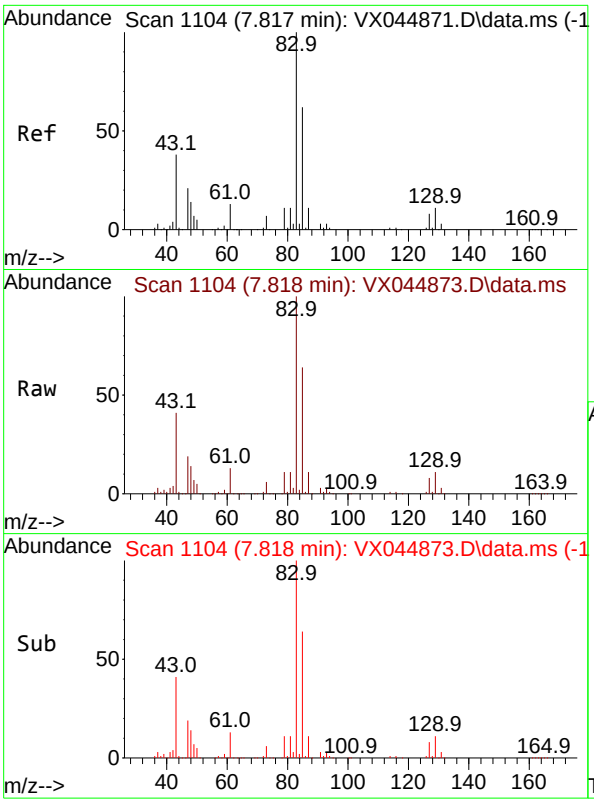


#46
Dibromomethane
Concen: 152.870 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 93 Resp: 179689

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.2	99.4
174	87.9	69.9	104.9



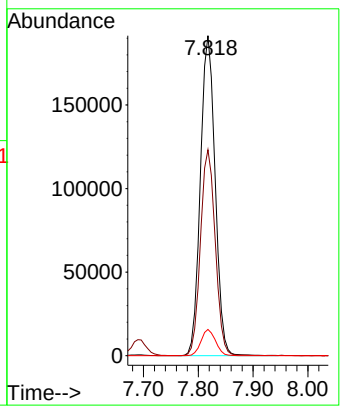


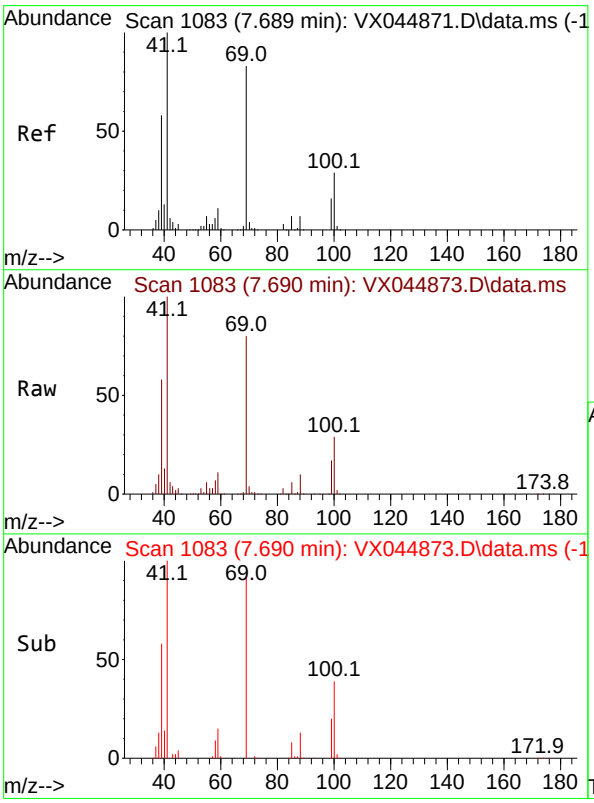
#47
Bromodichloromethane
Concen: 157.128 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 357623

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0
127	8.2	6.4	9.6

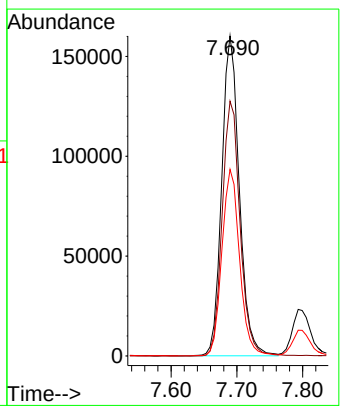


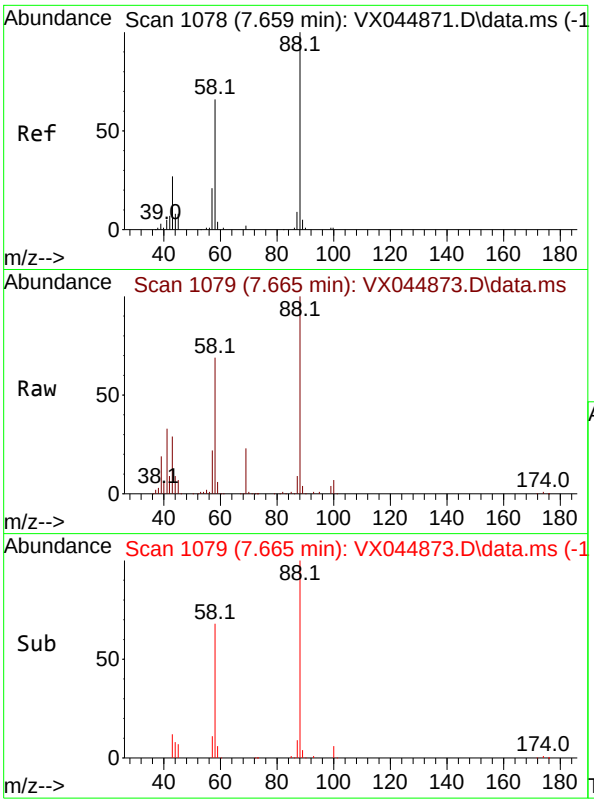


#48
Methyl methacrylate
Concen: 161.236 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 297931

Ion	Ratio	Lower	Upper
41	100		
69	81.4	65.8	98.8
39	58.7	46.4	69.6



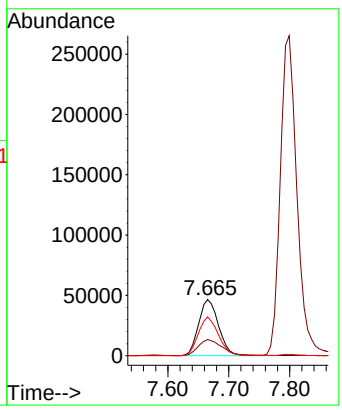


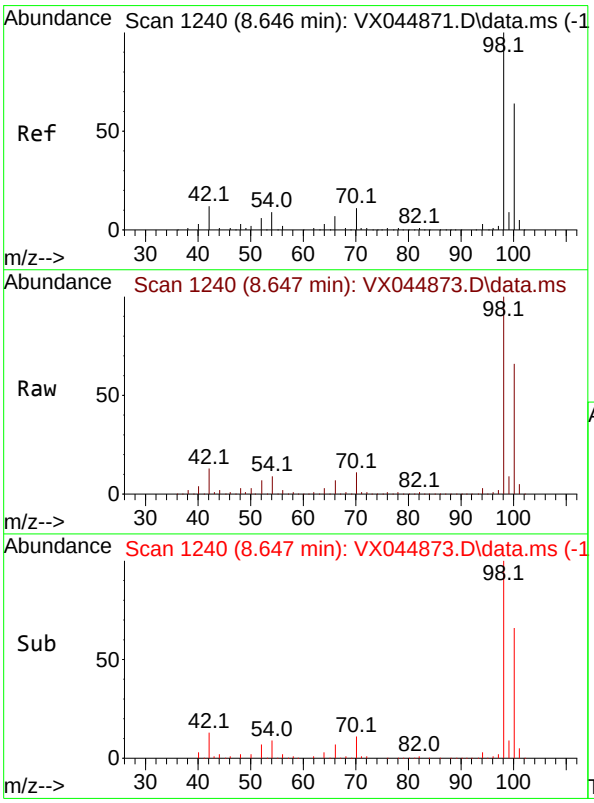
#49
1,4-Dioxane
Concen: 2678.192 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 106175

Ion	Ratio	Lower	Upper
88	100		
43	33.0	26.6	39.8
58	69.4	55.9	83.9

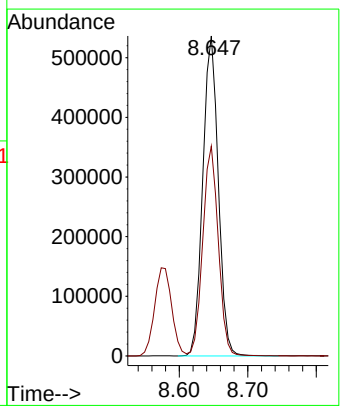


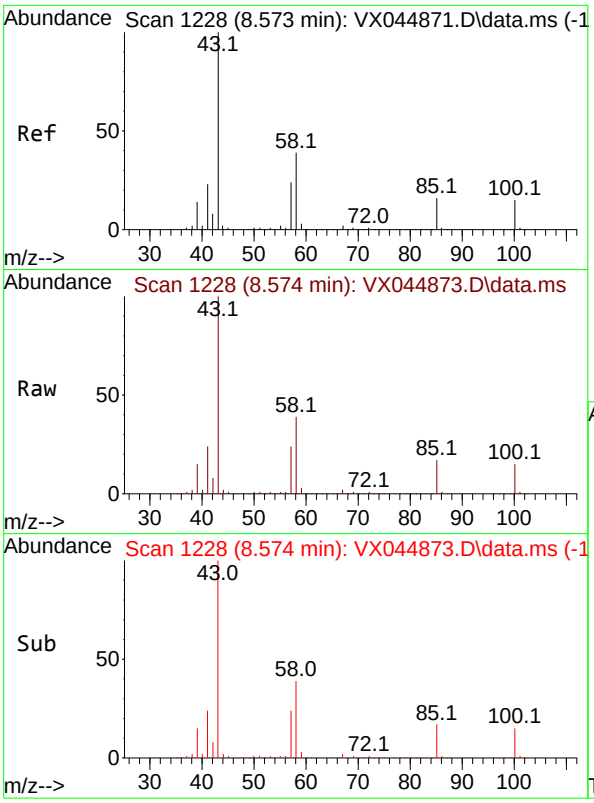


#50
Toluene-d8
Concen: 147.877 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 98 Resp: 845632

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.7	79.1



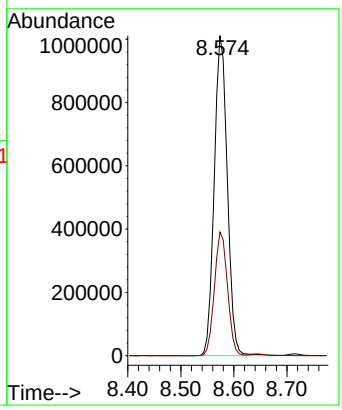


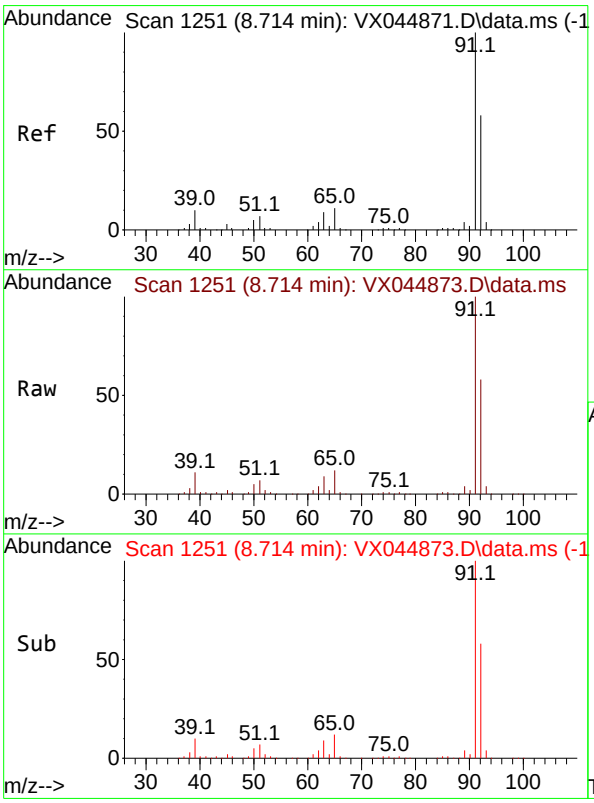
#51
4-Methyl-2-Pentanone
Concen: 728.887 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1736538

Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.8	46.2

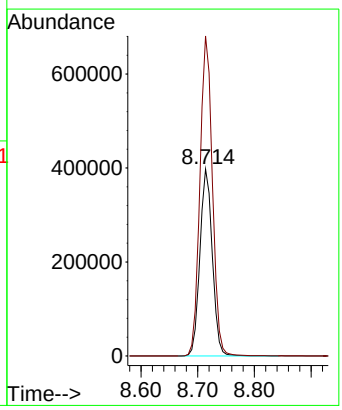


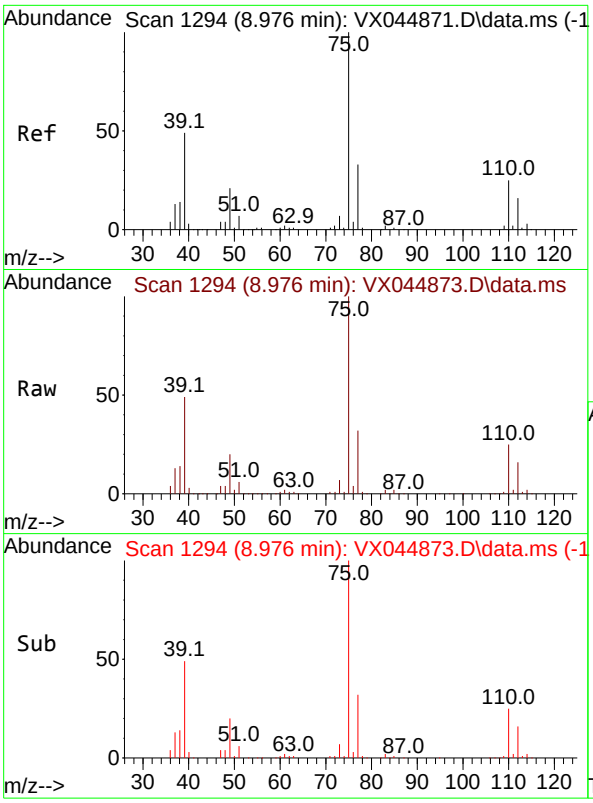


#52
Toluene
Concen: 148.645 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 92 Resp: 603113

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.4	206.2



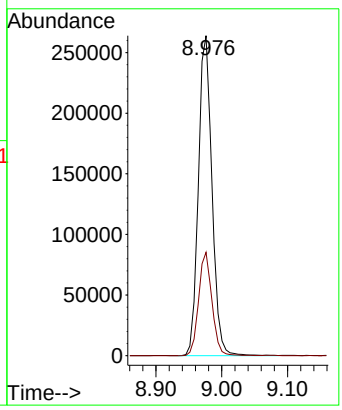


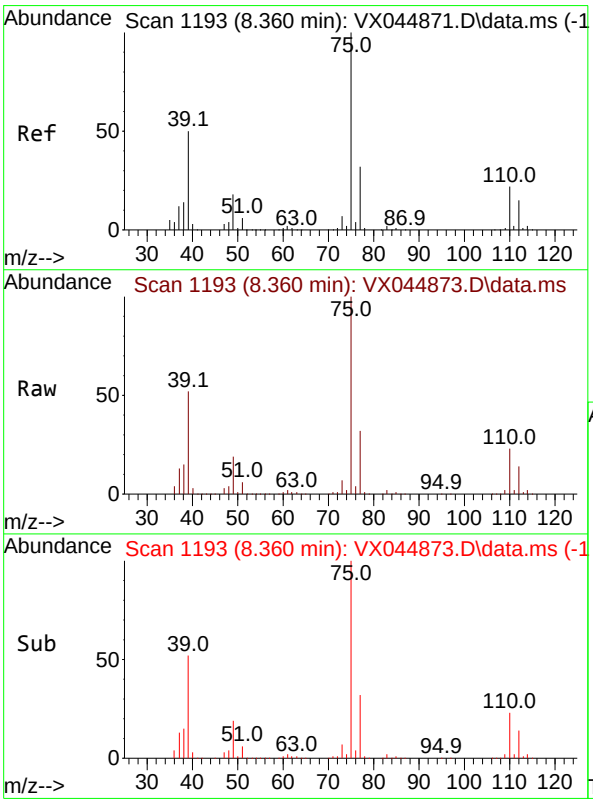
#53
t-1,3-Dichloropropene
Concen: 164.398 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 378639

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.0	39.0

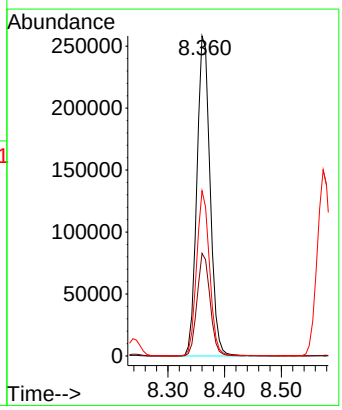


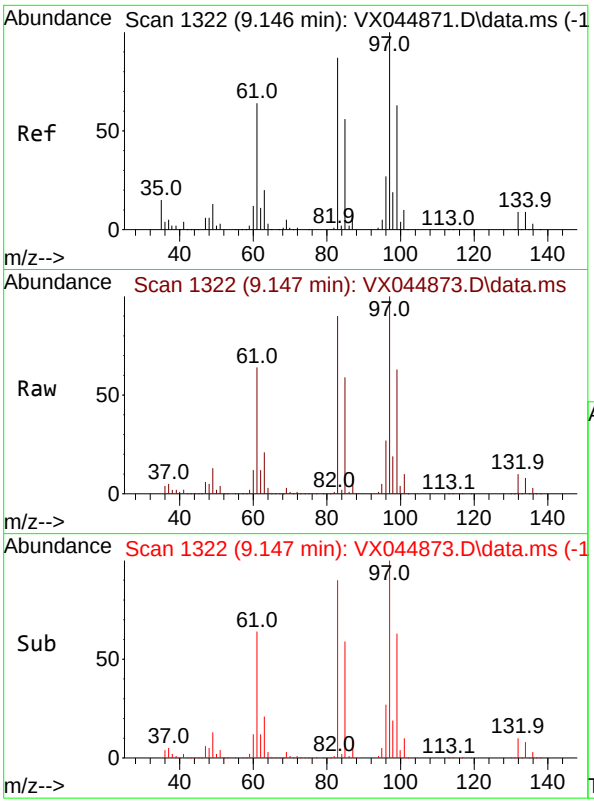


#54
cis-1,3-Dichloropropene
Concen: 162.667 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 417724

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.3	37.9
39	51.5	40.0	60.0



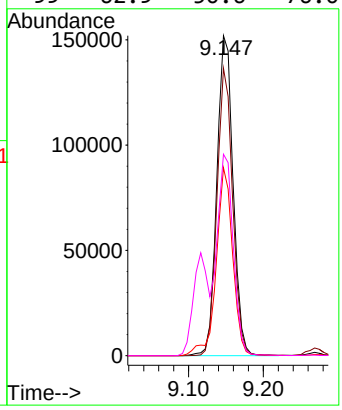


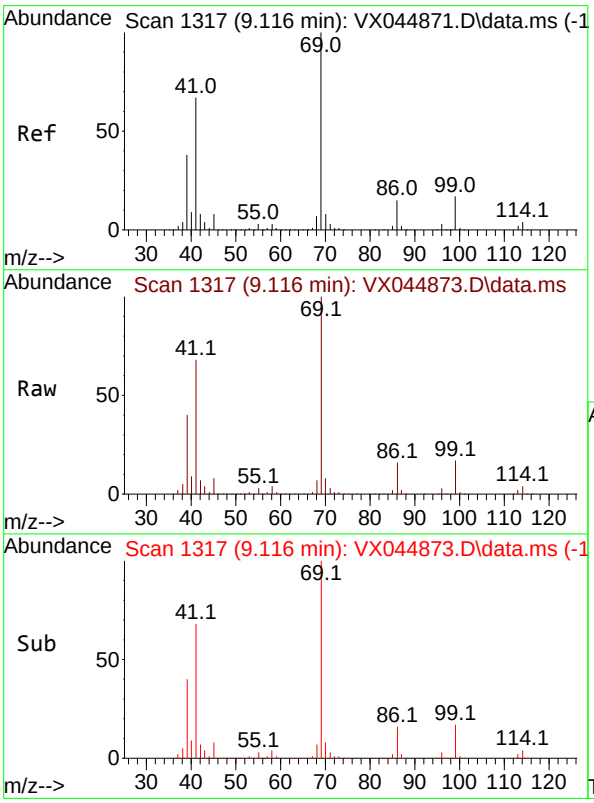
#55
1,1,2-Trichloroethane
Concen: 147.172 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 229548

Ion	Ratio	Lower	Upper
97	100		
83	89.8	69.8	104.6
85	58.7	44.8	67.2
99	62.9	50.6	76.0

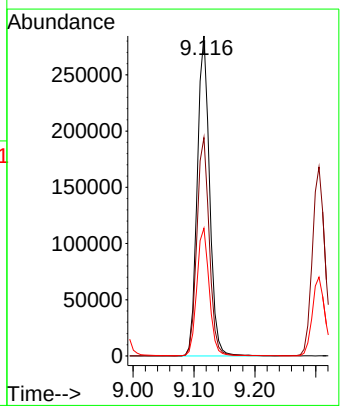


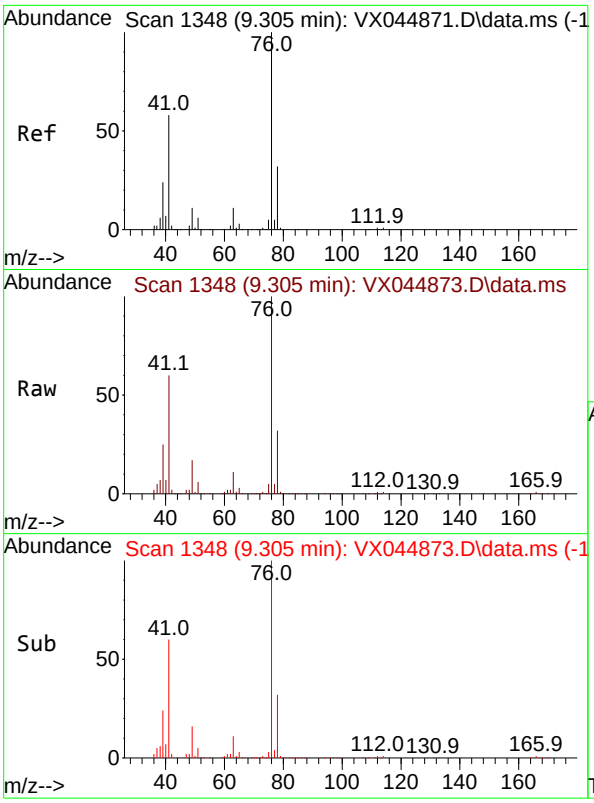


#56
Ethyl methacrylate
Concen: 158.205 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 69 Resp: 398535

Ion	Ratio	Lower	Upper
69	100		
41	68.7	55.2	82.8
39	40.0	30.8	46.2



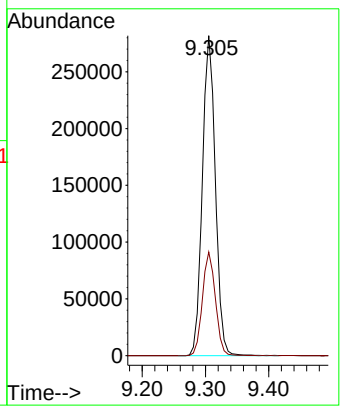


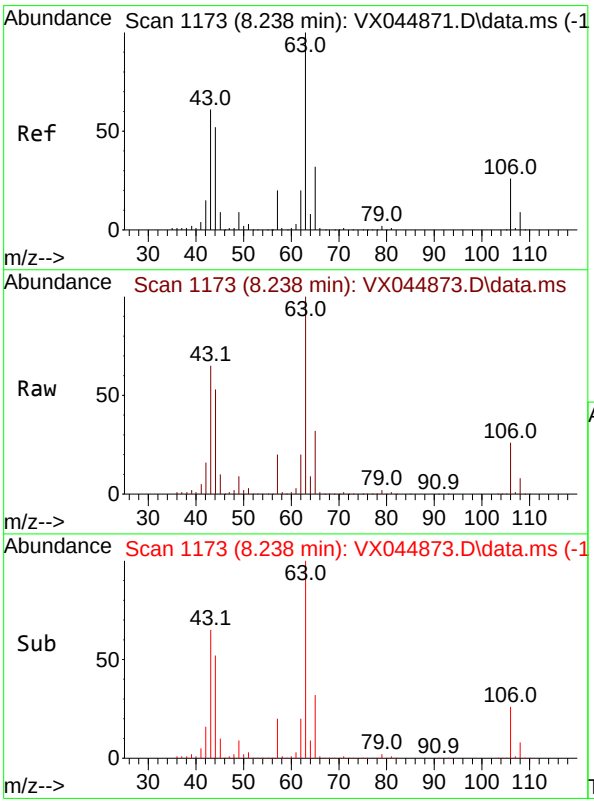
#57
1,3-Dichloropropane
Concen: 147.915 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 403665

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

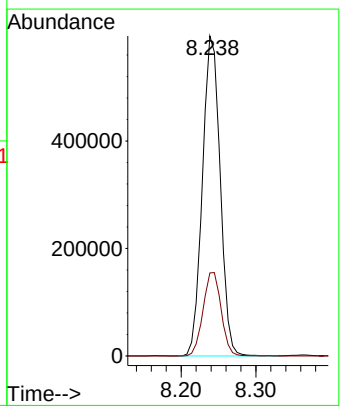


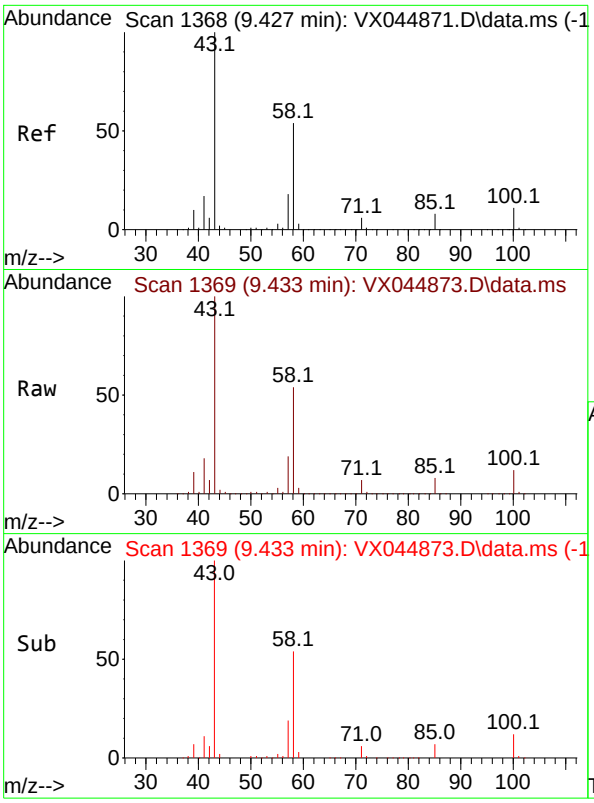


#58
2-Chloroethyl Vinyl ether
Concen: 794.010 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 982120

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9



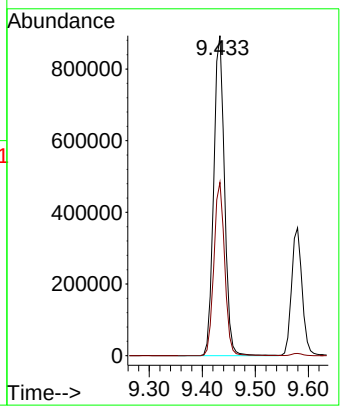


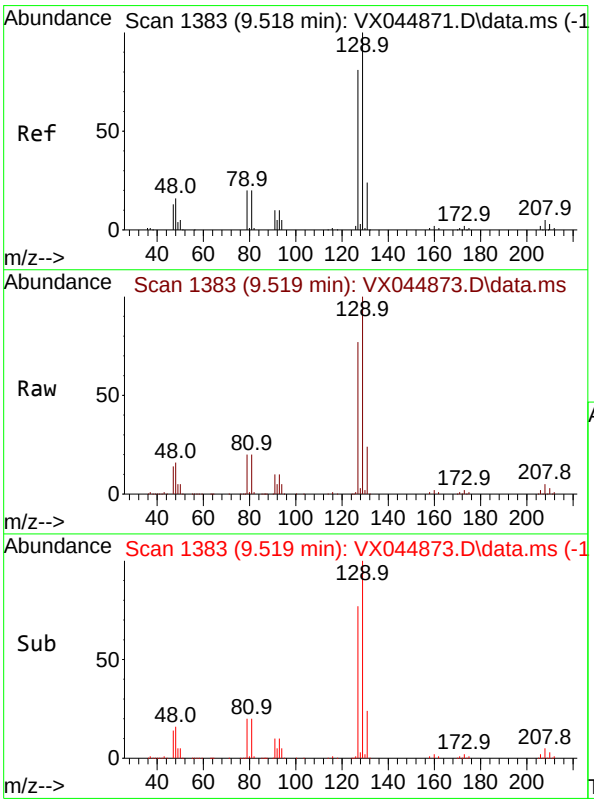
#59
2-Hexanone
Concen: 736.622 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1264470

Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.5	82.4

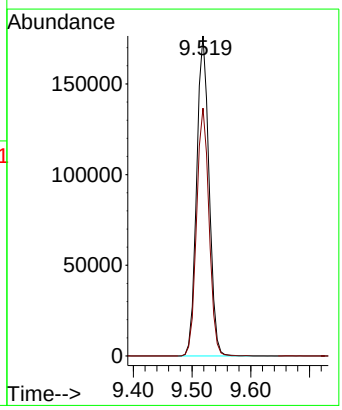


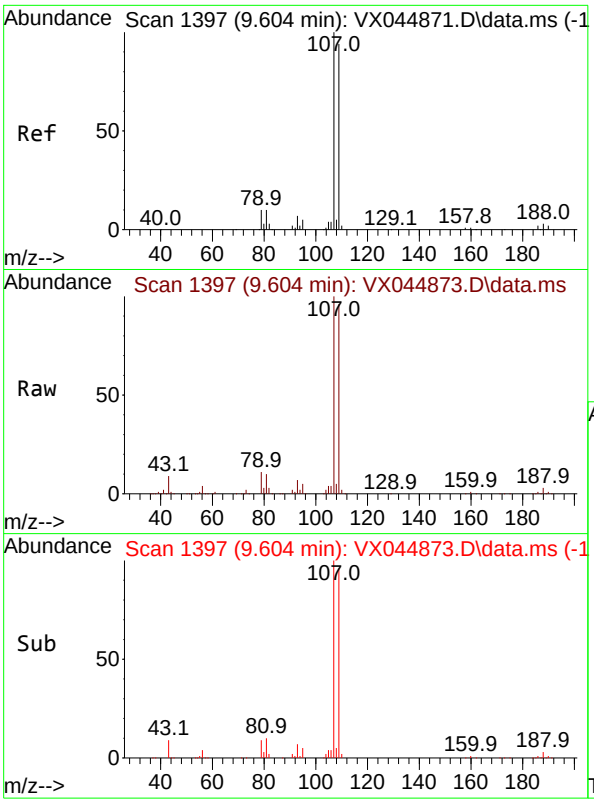


#60
Dibromochloromethane
Concen: 154.862 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:129 Resp: 258320

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.1	117.3



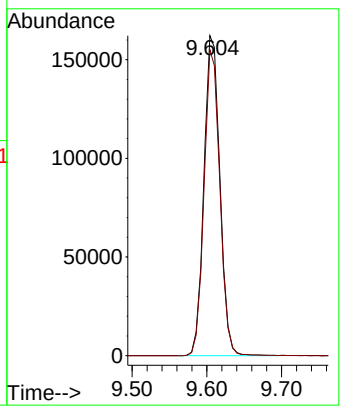


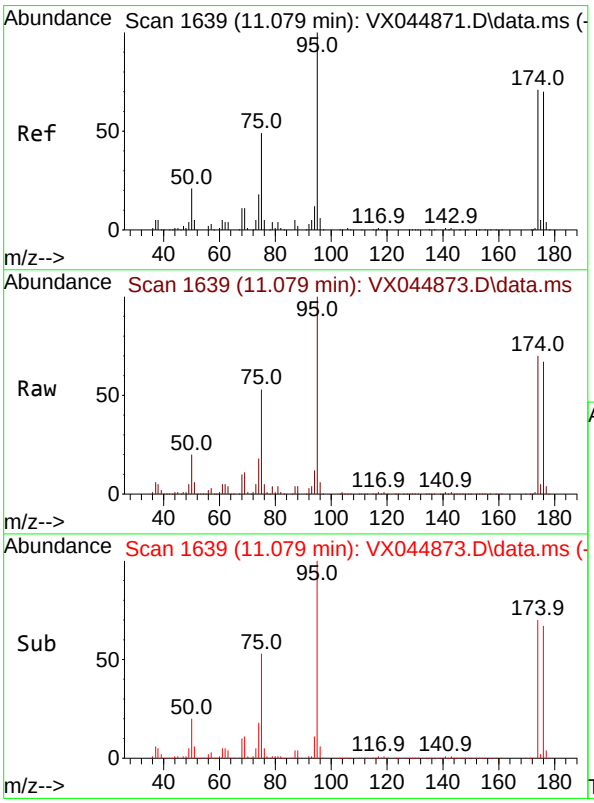
#61
1,2-Dibromoethane
Concen: 152.157 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 240539

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.9	113.9

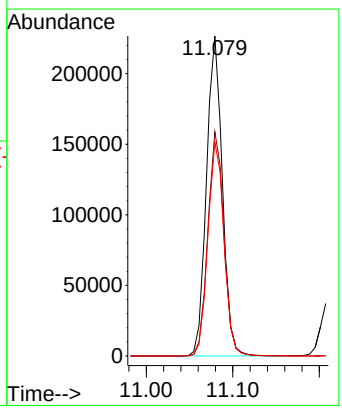


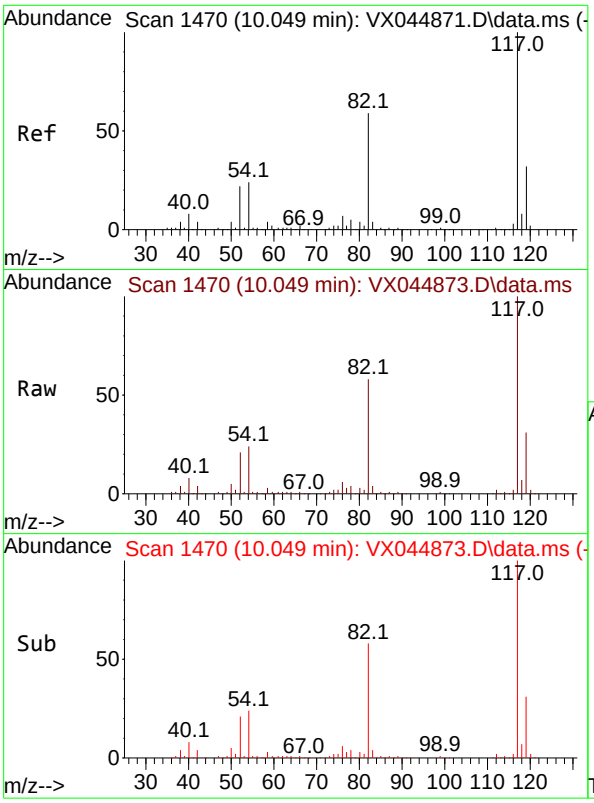


#62
4-Bromofluorobenzene
Concen: 149.124 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 95 Resp: 287486

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	142.6
176	68.0	0.0	141.6



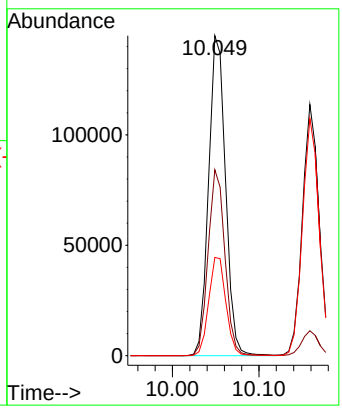


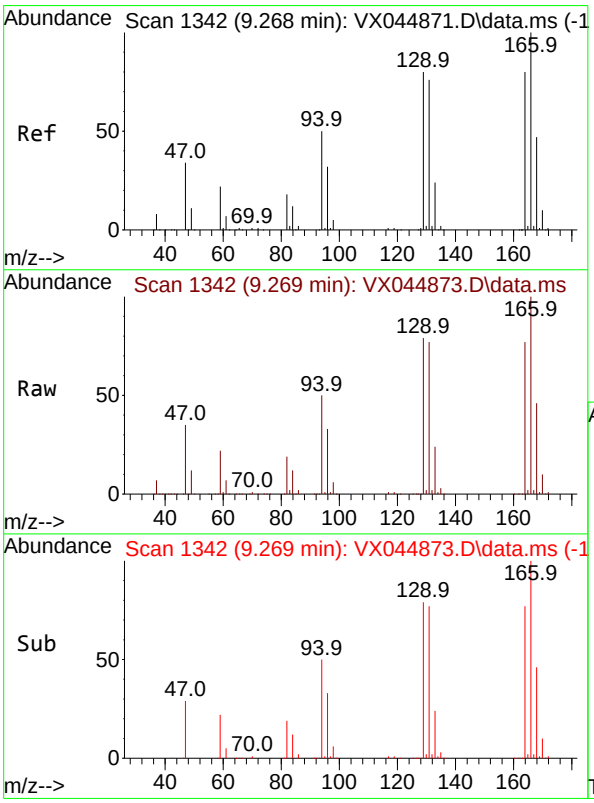
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 196663

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.5	71.3
119	30.7	25.4	38.0

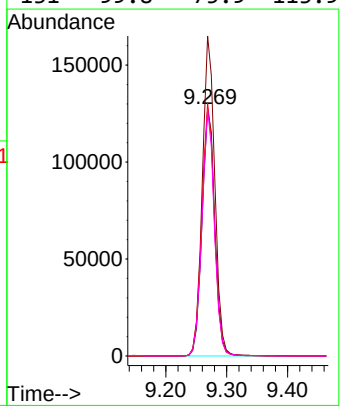


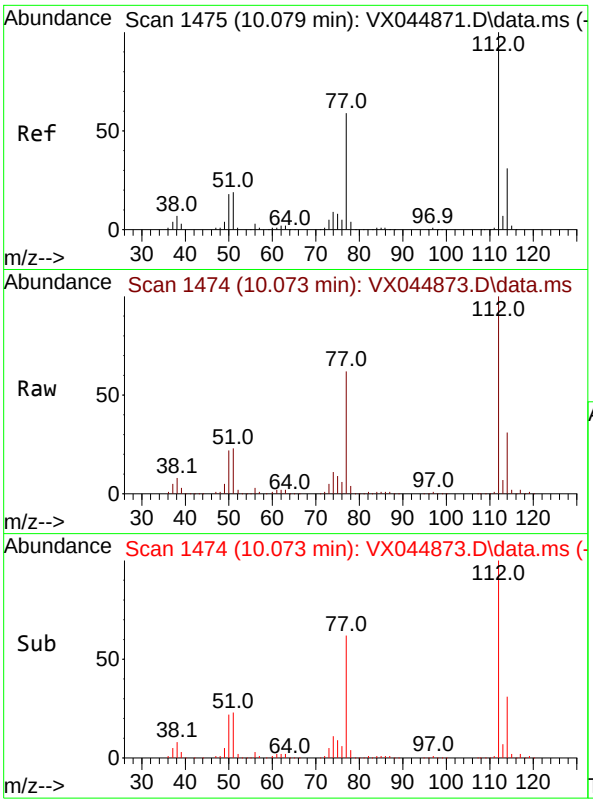


#64
Tetrachloroethene
Concen: 149.155 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:164 Resp: 184990

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.4	150.6
129	102.3	79.9	119.9
131	99.8	75.9	113.9



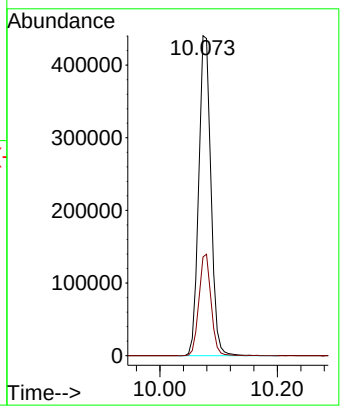


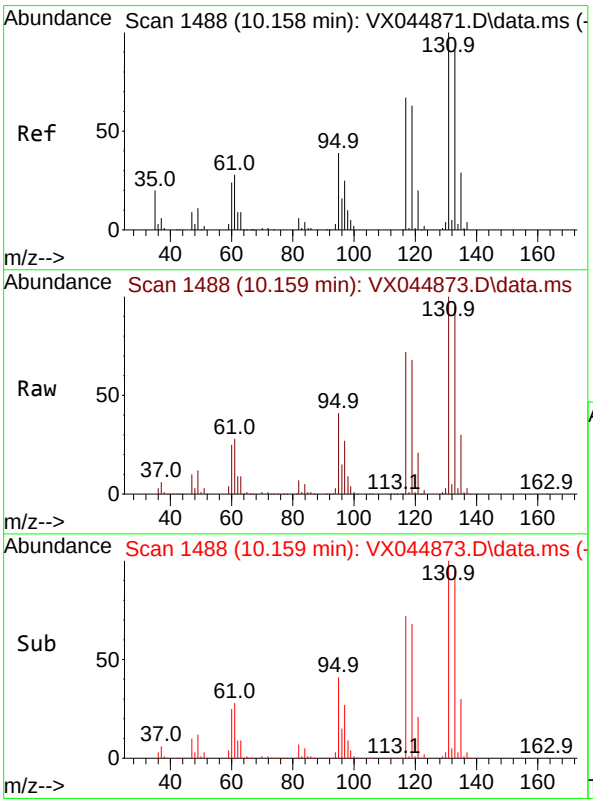
#65
Chlorobenzene
Concen: 150.224 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 634550

Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.0	37.6

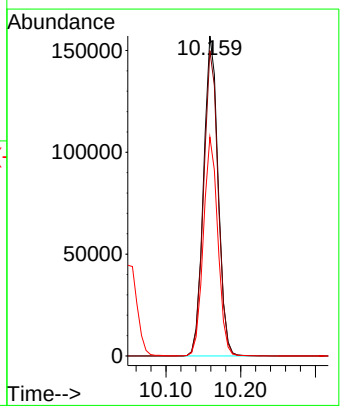


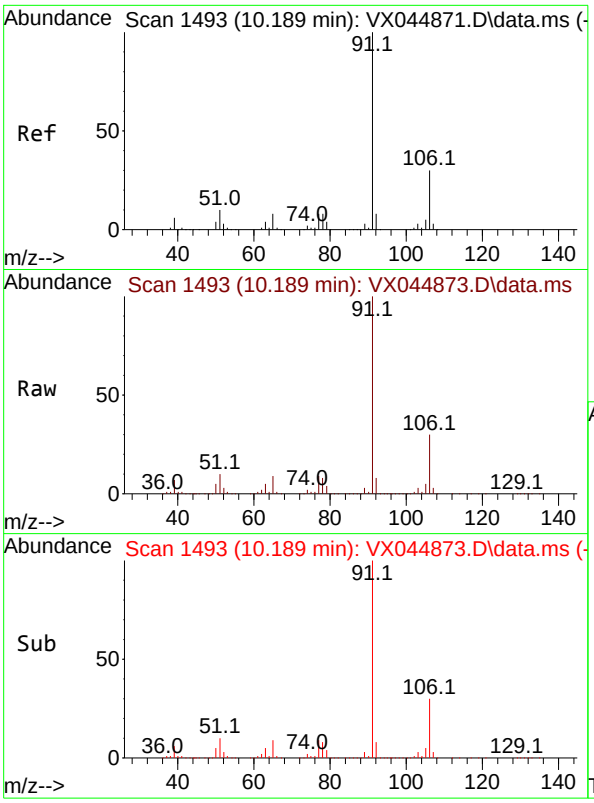


#66
1,1,1,2-Tetrachloroethane
Concen: 156.255 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:131 Resp: 212441

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.1	141.3
119	67.9	33.6	100.6



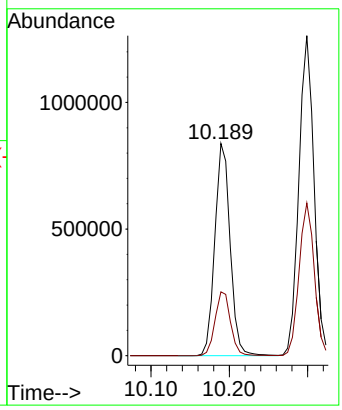


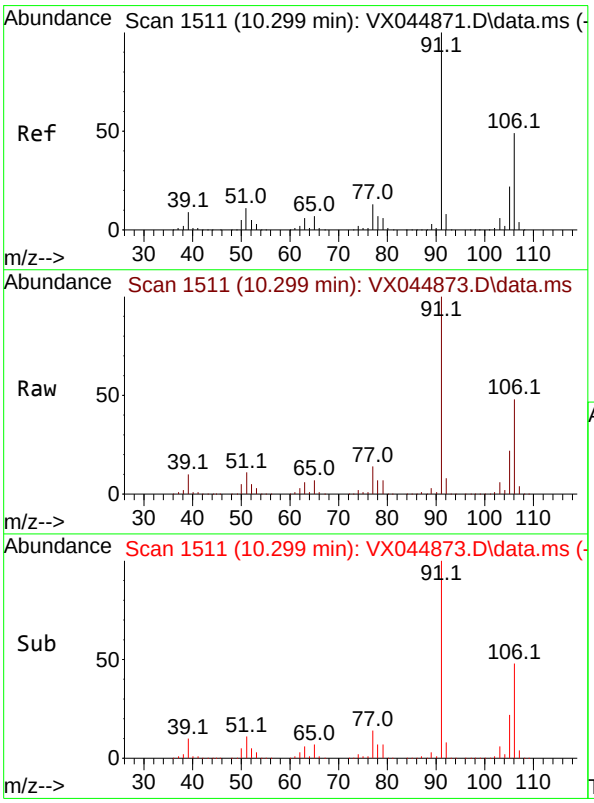
#67
Ethyl Benzene
Concen: 152.647 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1137842

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.9	35.9

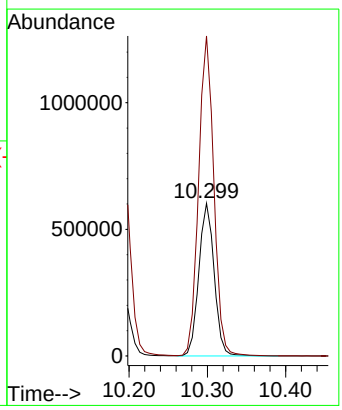


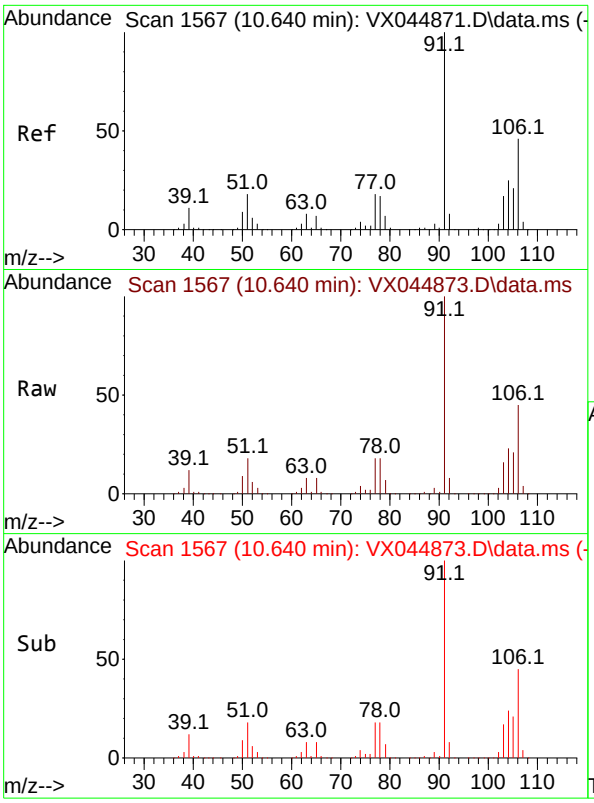


#68
m/p-Xylenes
Concen: 297.841 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:106 Resp: 818971

Ion	Ratio	Lower	Upper
106	100		
91	208.6	164.3	246.5



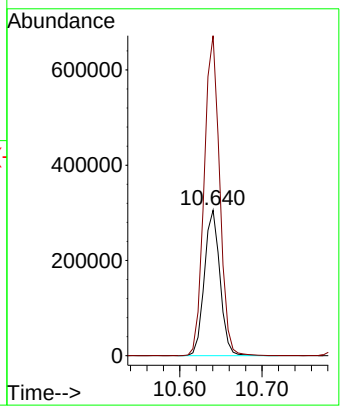


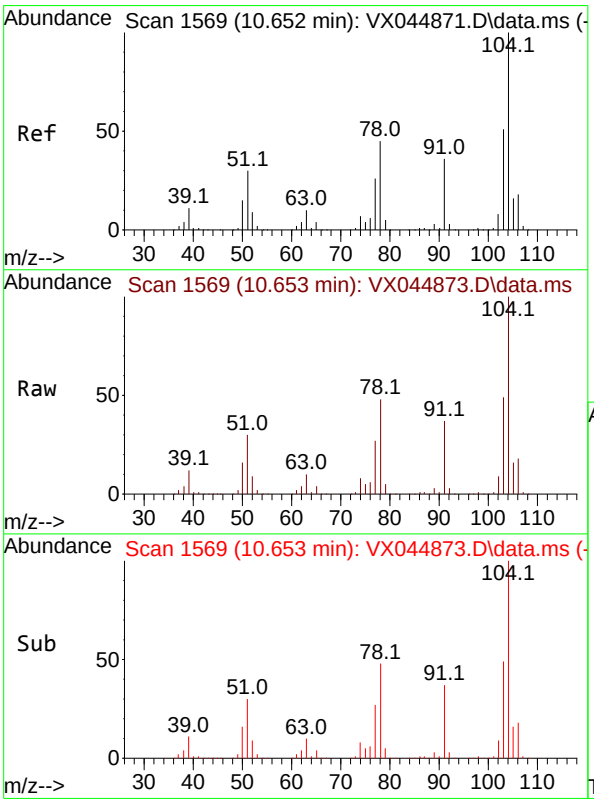
#69
o-Xylene
Concen: 145.674 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 401928

Ion	Ratio	Lower	Upper
106	100		
91	218.9	108.5	325.5

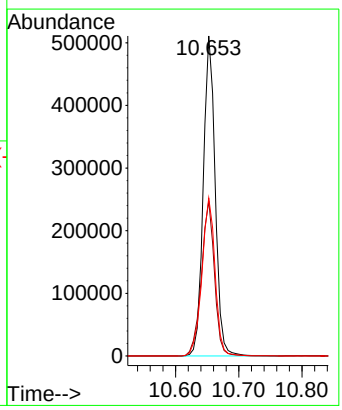


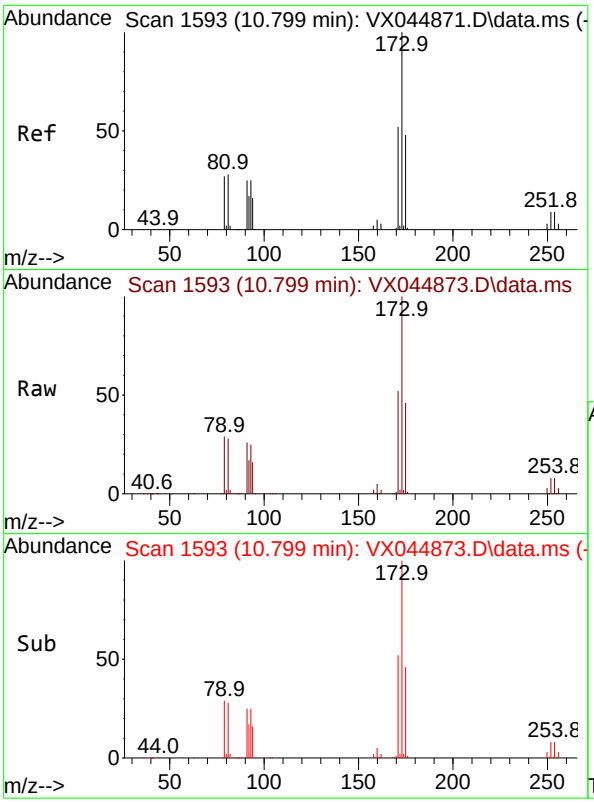


#70
Styrene
Concen: 151.140 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:104 Resp: 671843

Ion	Ratio	Lower	Upper
104	100		
78	53.0	40.5	60.7
103	54.5	43.6	65.4



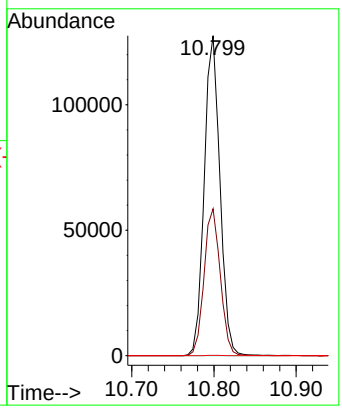


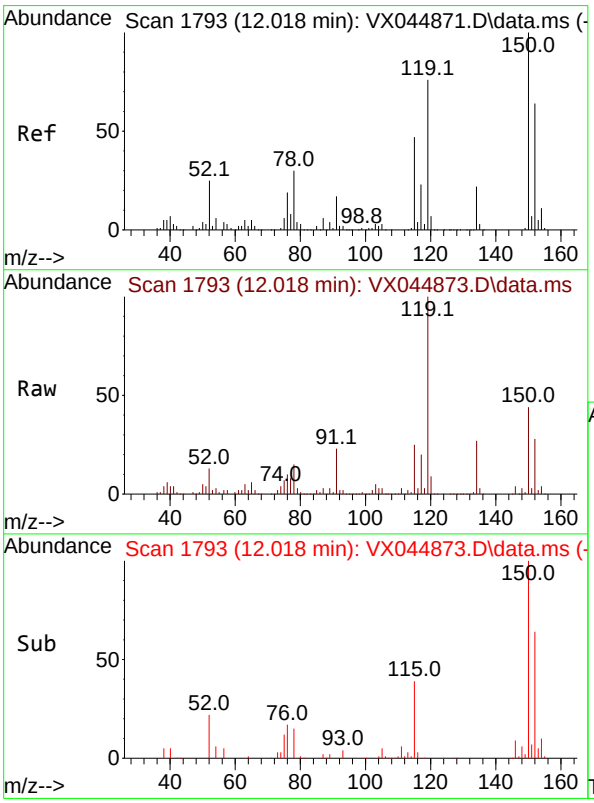
#71
Bromoform
Concen: 167.033 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 169481

Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	72.8
254	0.1	0.0	0.0#

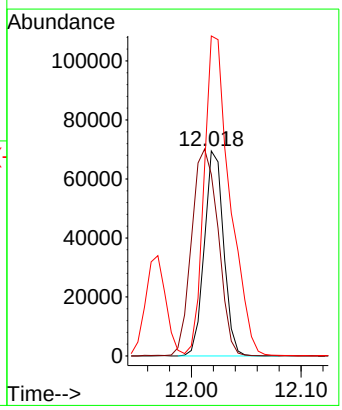


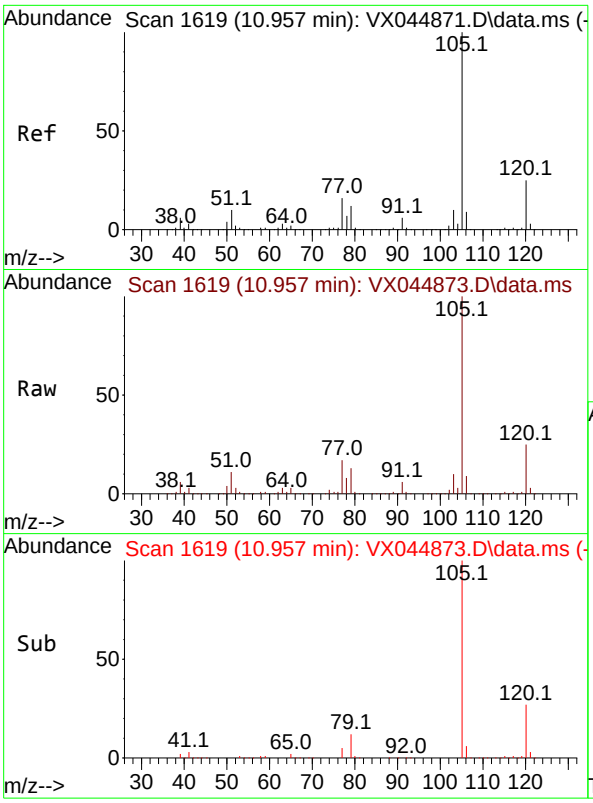


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:152 Resp: 84836

Ion	Ratio	Lower	Upper
152	100		
115	139.2	43.4	130.1#
150	209.6	0.0	350.4



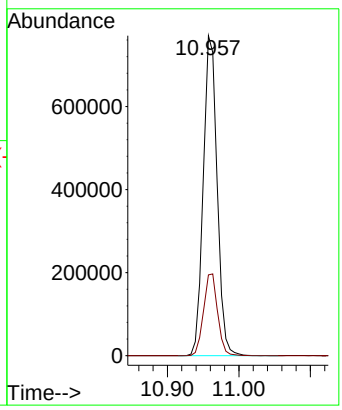


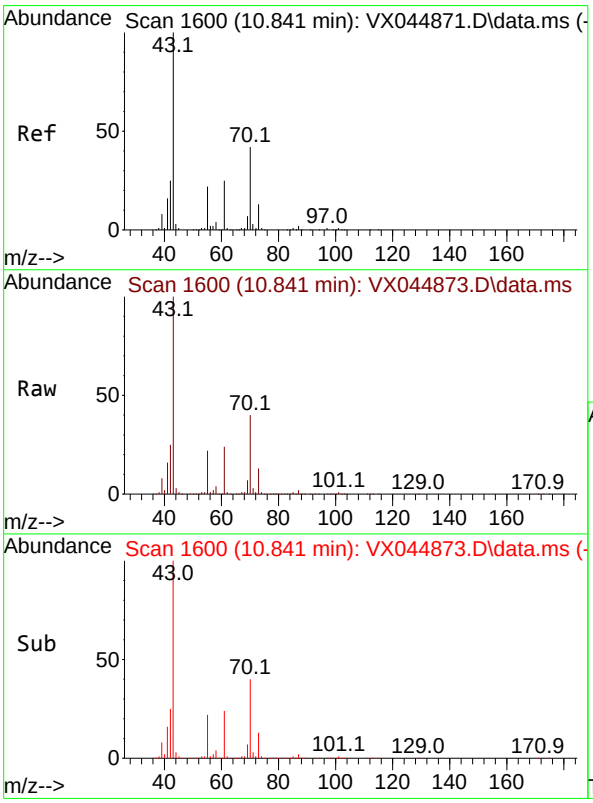
#73
Isopropylbenzene
Concen: 151.869 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1037402

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.5

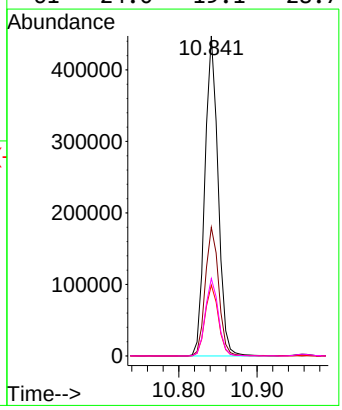


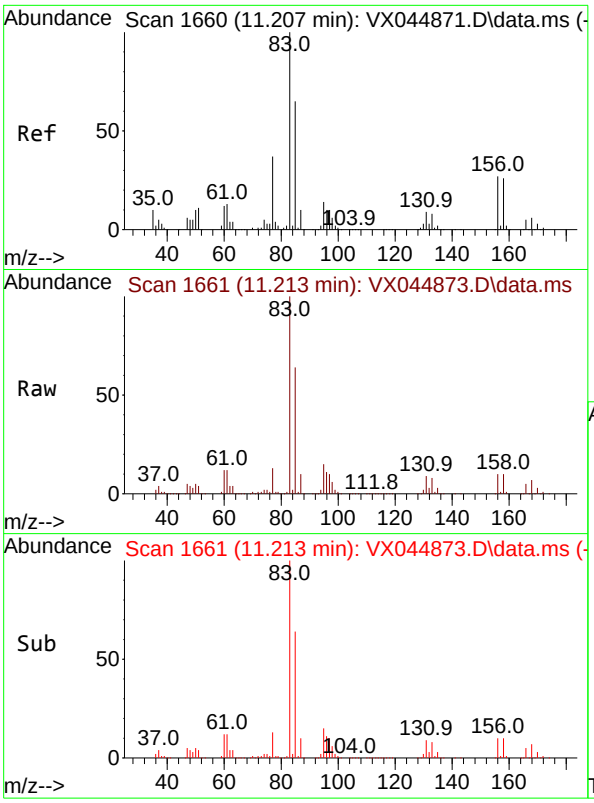


#74
N-amyl acetate
Concen: 168.861 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 521962

Ion	Ratio	Lower	Upper
43	100		
70	41.0	33.7	50.5
55	22.3	18.6	27.8
61	24.0	19.1	28.7



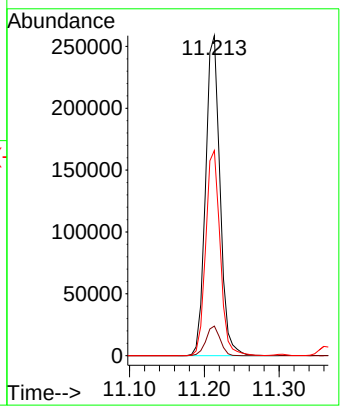


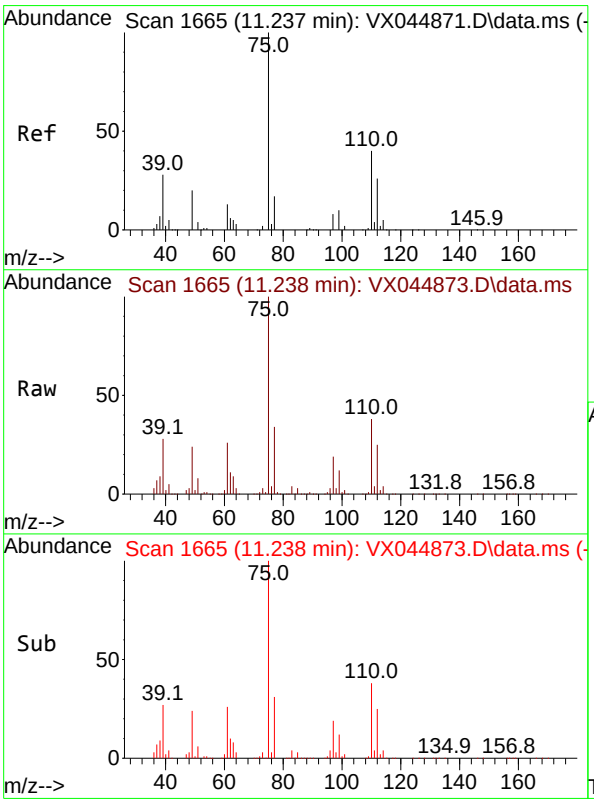
#75
1,1,2,2-Tetrachloroethane
Concen: 147.409 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 346013

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	64.3	32.3	96.8

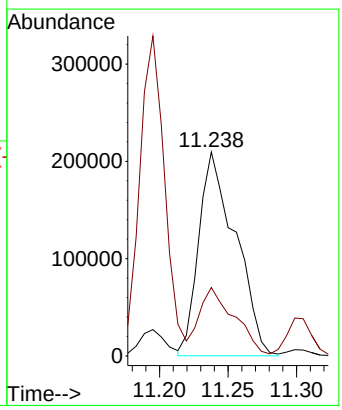


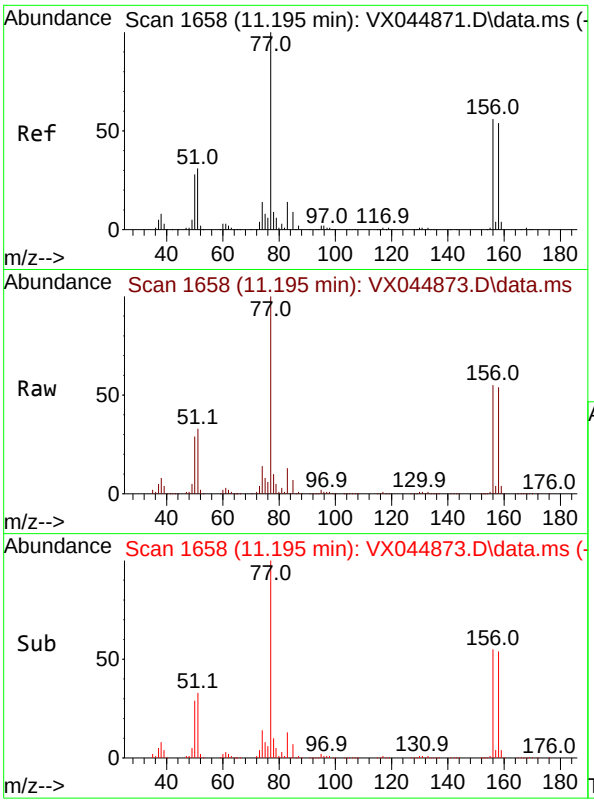


#76
1,2,3-Trichloropropane
Concen: 208.411 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 392008

Ion	Ratio	Lower	Upper
75	100		
77	32.2	21.9	65.7



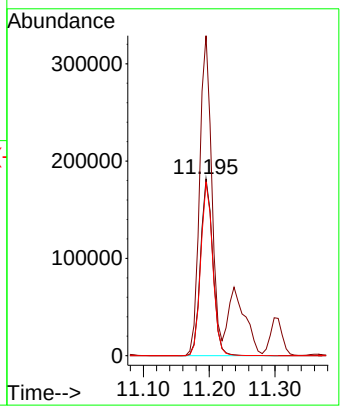


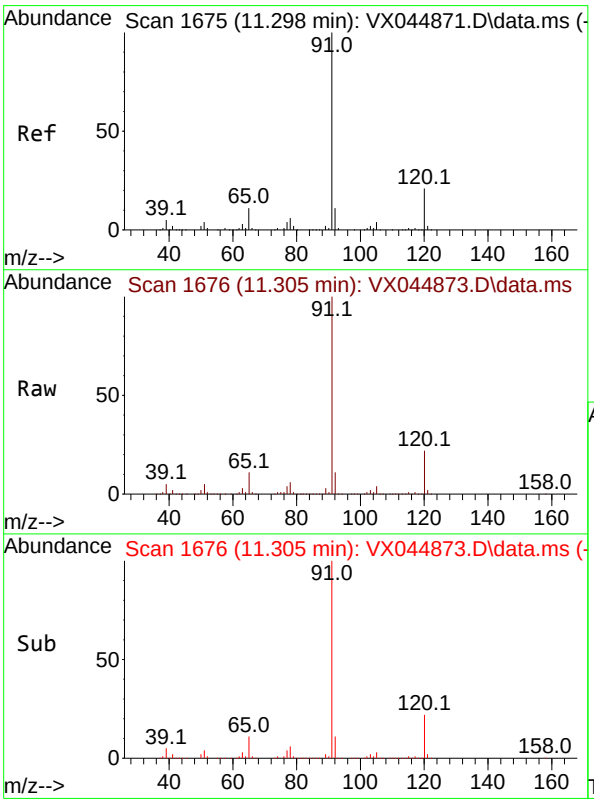
#77
Bromobenzene
Concen: 151.715 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 234957

Ion	Ratio	Lower	Upper
156	100		
77	179.2	88.4	265.3
158	97.1	48.4	145.2

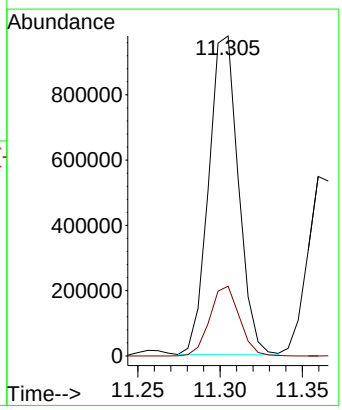


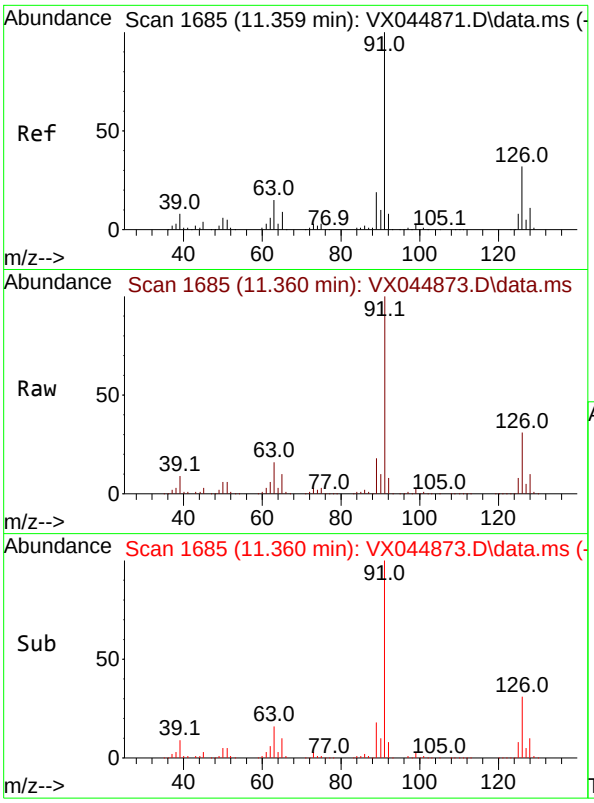


#78
n-propylbenzene
Concen: 156.140 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 1231079

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.1	33.3



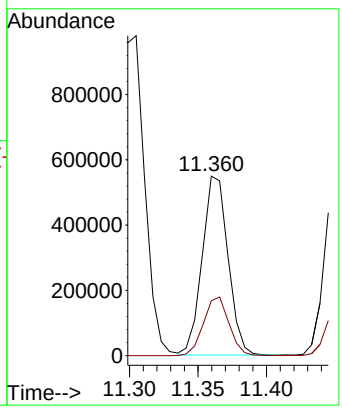


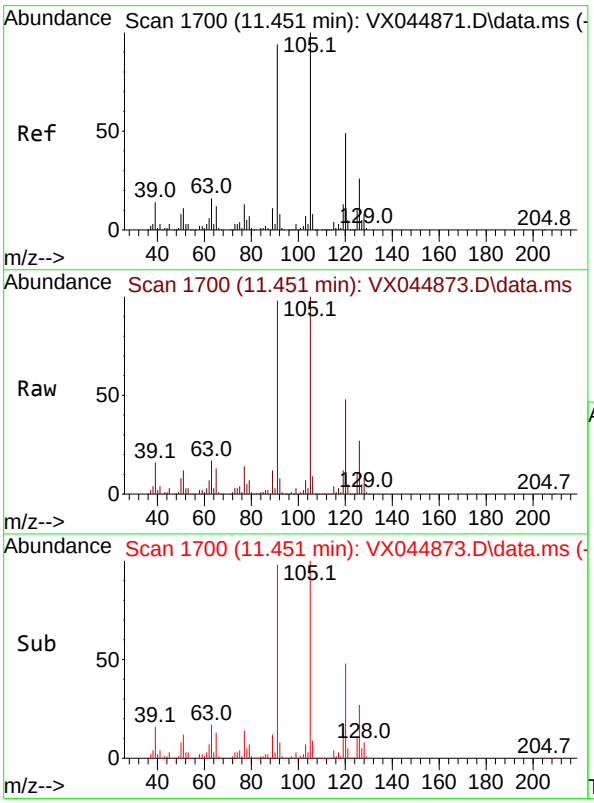
#79
2-Chlorotoluene
Concen: 148.123 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 717766

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.2	48.6

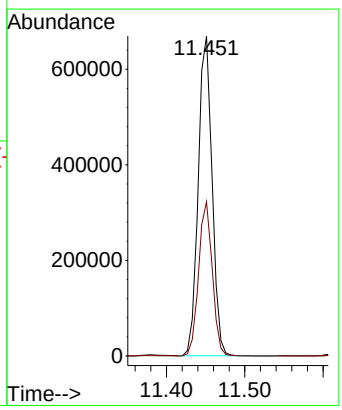


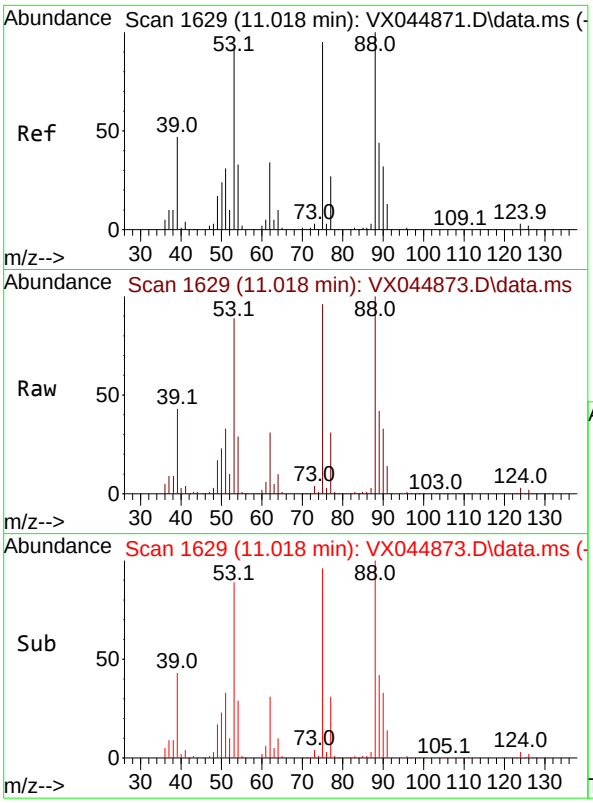


#80
1,3,5-Trimethylbenzene
Concen: 148.415 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 822707

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.0	72.0



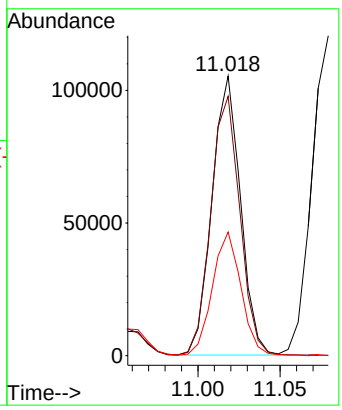


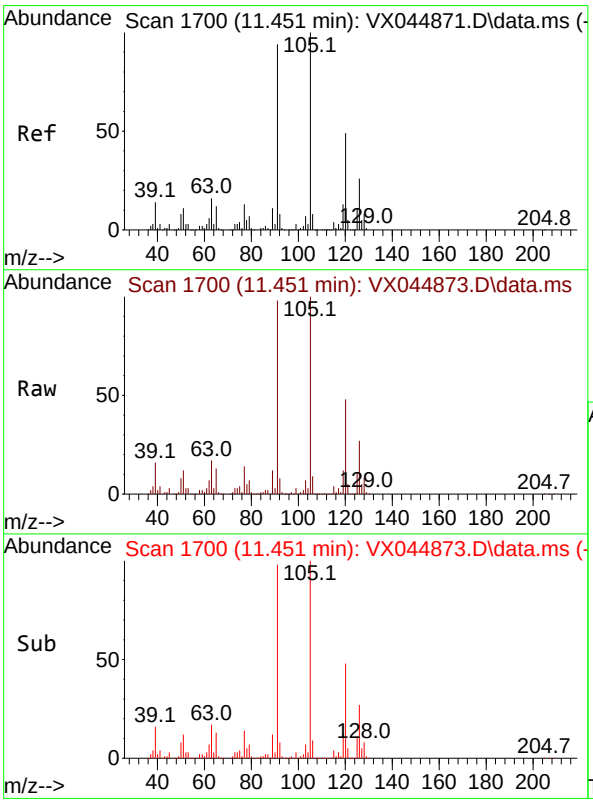
#81
trans-1,4-Dichloro-2-butene
Concen: 173.221 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 126660

Ion	Ratio	Lower	Upper
75	100		
53	95.2	78.0	117.0
89	44.7	36.6	54.8

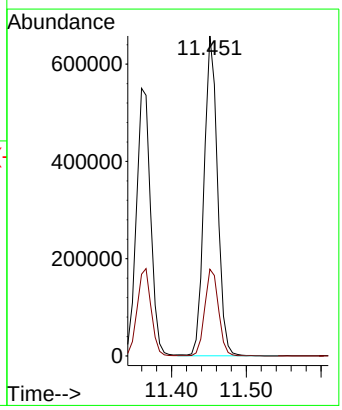


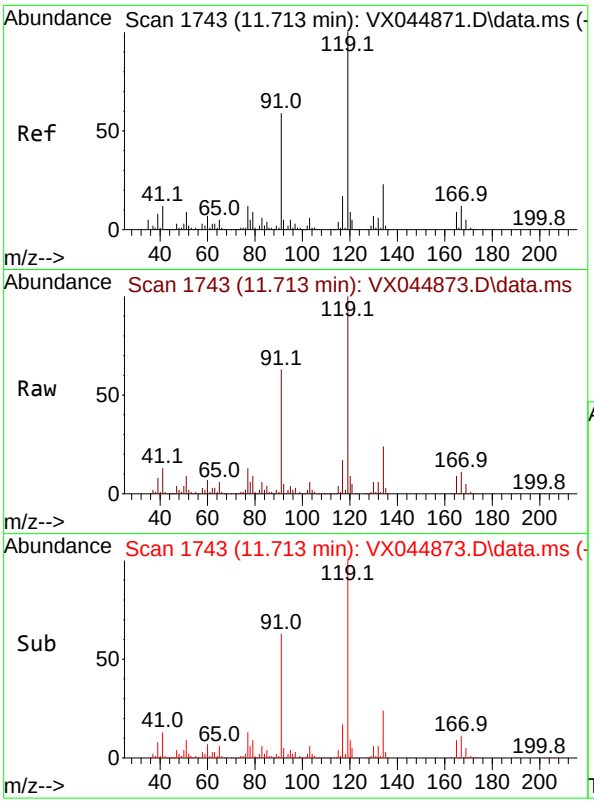


#82
4-Chlorotoluene
Concen: 152.602 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 818099

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.2	42.6



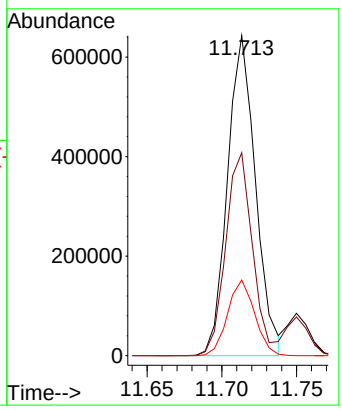


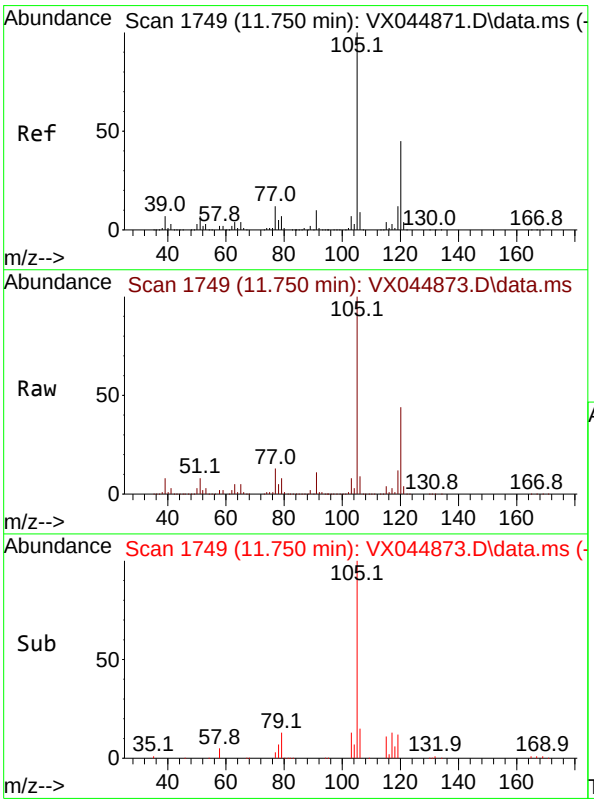
#83
tert-Butylbenzene
Concen: 149.610 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 838979

Ion	Ratio	Lower	Upper
119	100		
91	61.1	29.1	87.4
134	22.9	11.5	34.5

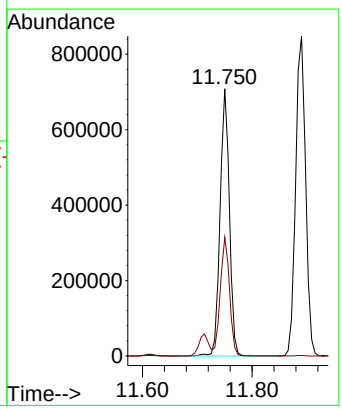


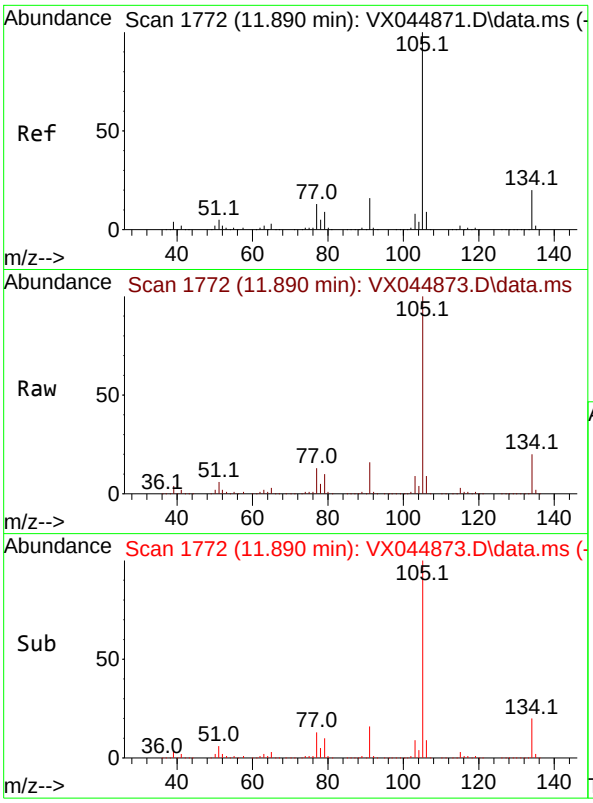


#84
1,2,4-Trimethylbenzene
Concen: 153.274 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 838584

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.0



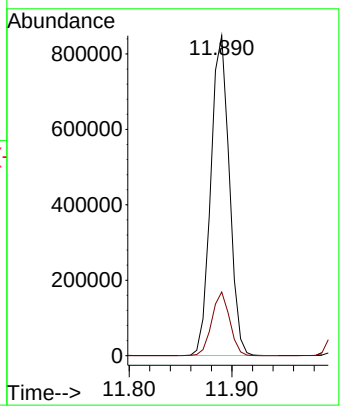


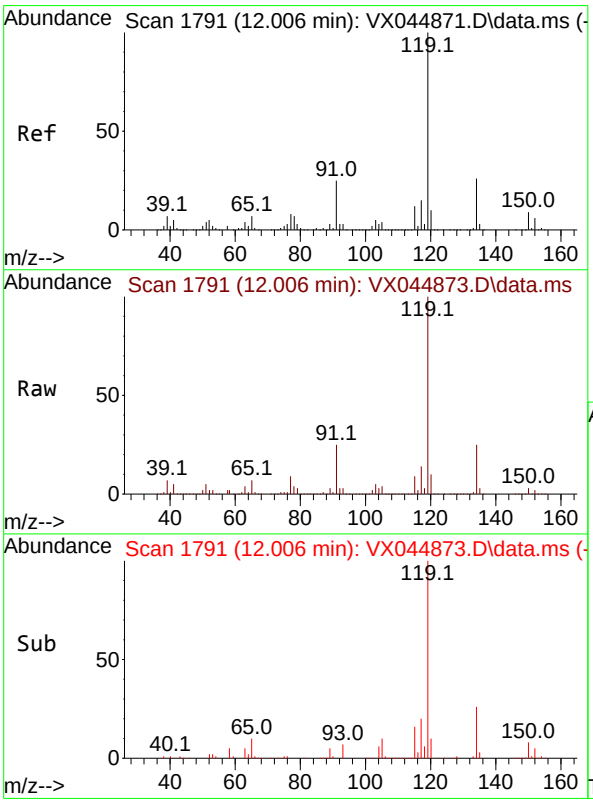
#85
sec-Butylbenzene
Concen: 152.806 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1061101

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.3

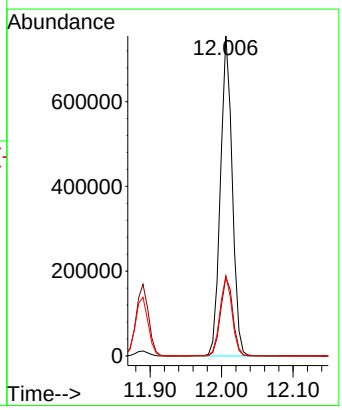


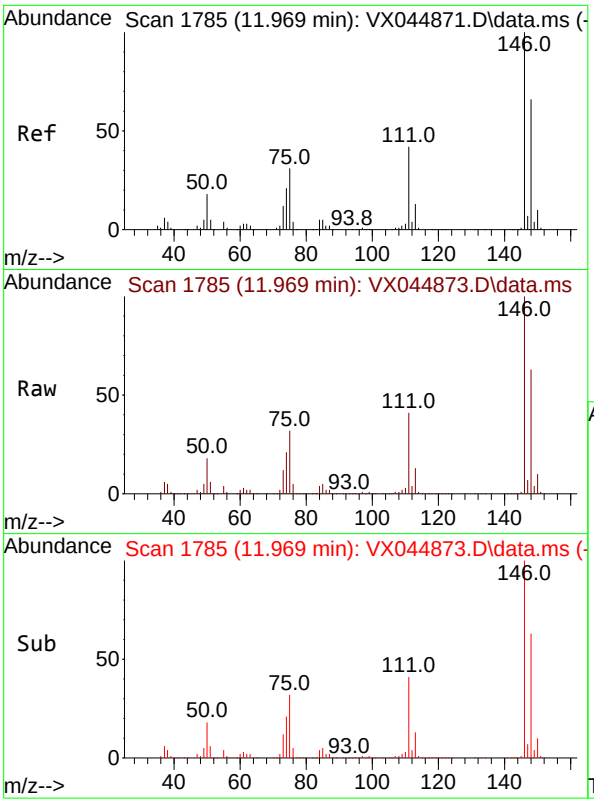


#86
p-Isopropyltoluene
Concen: 154.987 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:119 Resp: 865491

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	38.9
91	25.3	12.1	36.3



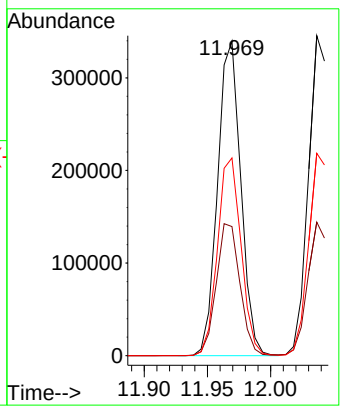


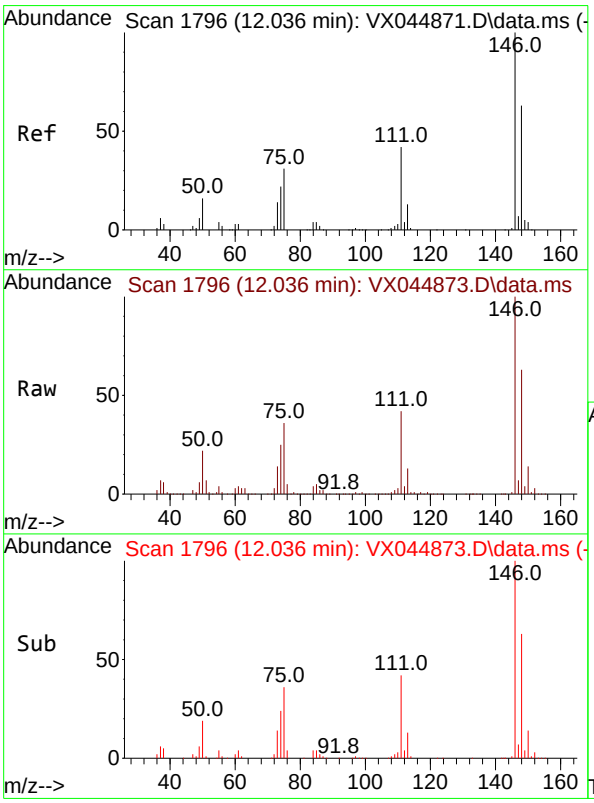
#87
1,3-Dichlorobenzene
Concen: 152.175 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 433384

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.2	63.6
148	63.9	32.5	97.5

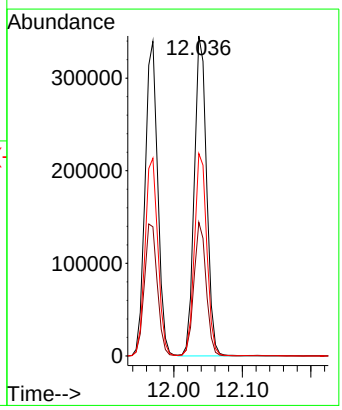


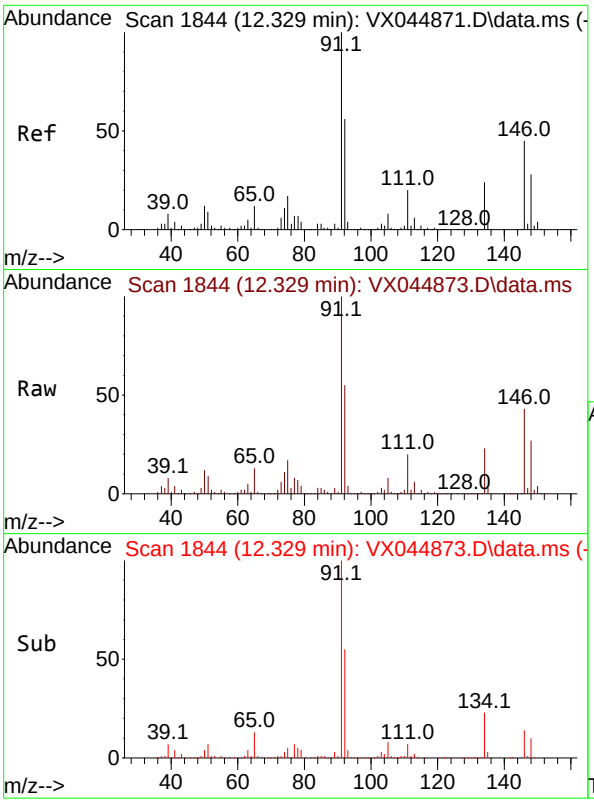


#88
1,4-Dichlorobenzene
Concen: 150.362 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:146 Resp: 432987

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.3
148	63.7	32.0	96.0



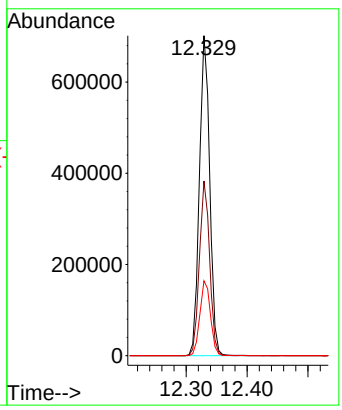


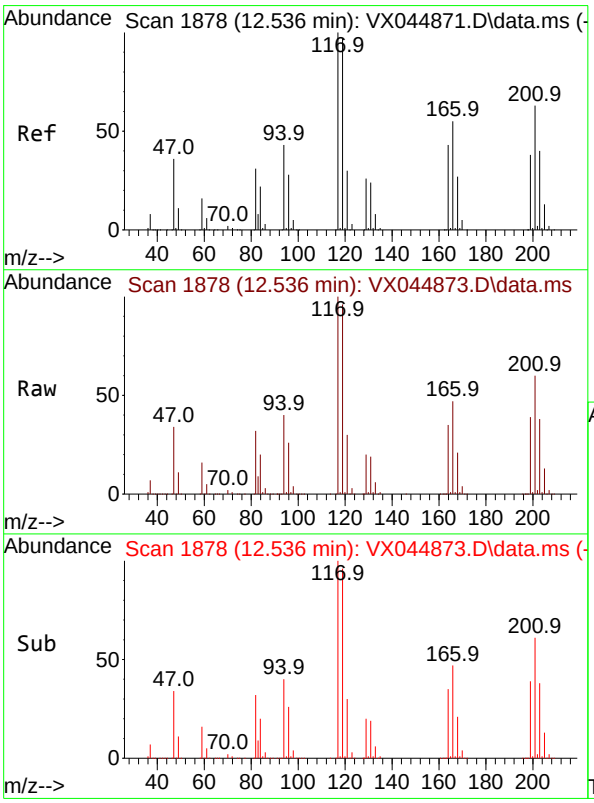
#89
n-Butylbenzene
Concen: 167.469 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 827359

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.0	12.1	36.3

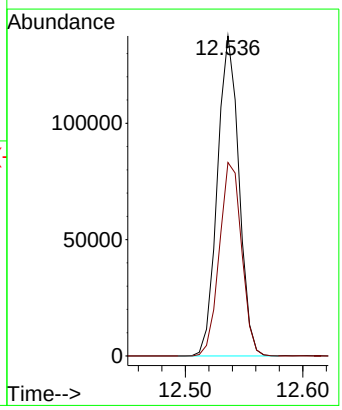


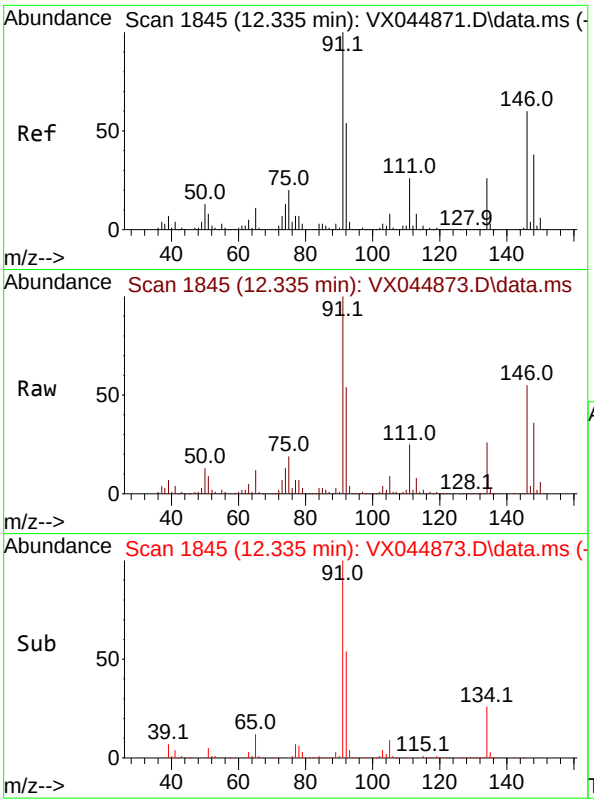


#90
Hexachloroethane
Concen: 167.760 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 175414

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.5	97.5



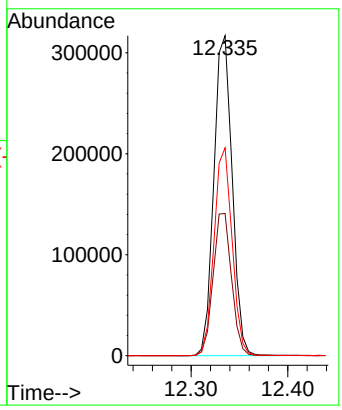


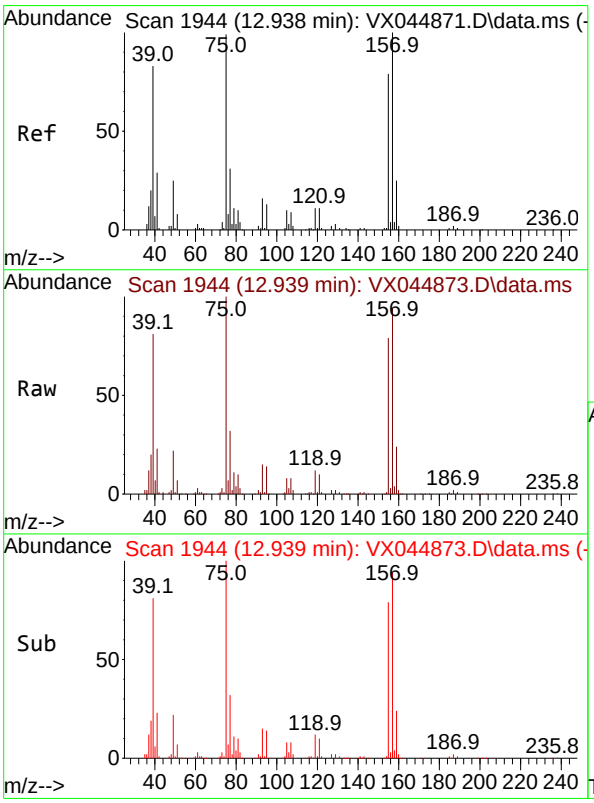
#91
1,2-Dichlorobenzene
Concen: 149.042 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 417167

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.8	65.4
148	64.1	31.9	95.9

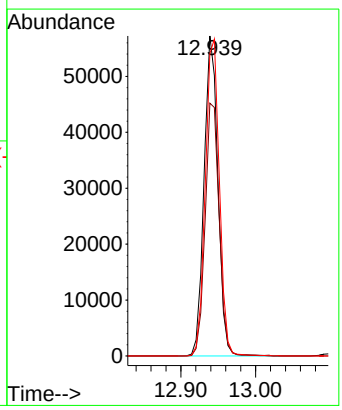


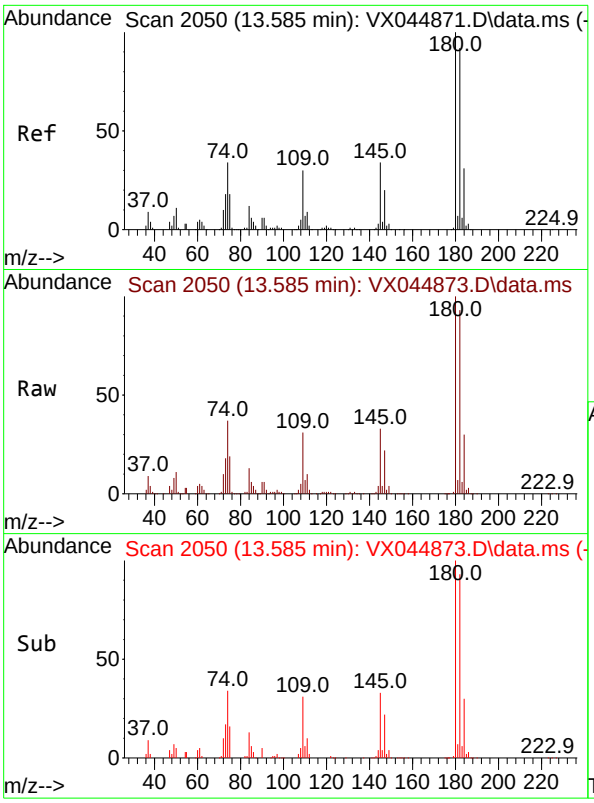


#92
1,2-Dibromo-3-Chloropropane
Concen: 171.783 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 73593

Ion	Ratio	Lower	Upper
75	100		
155	80.1	40.5	121.4
157	100.5	51.4	154.3



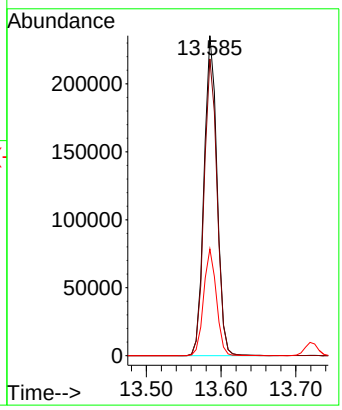


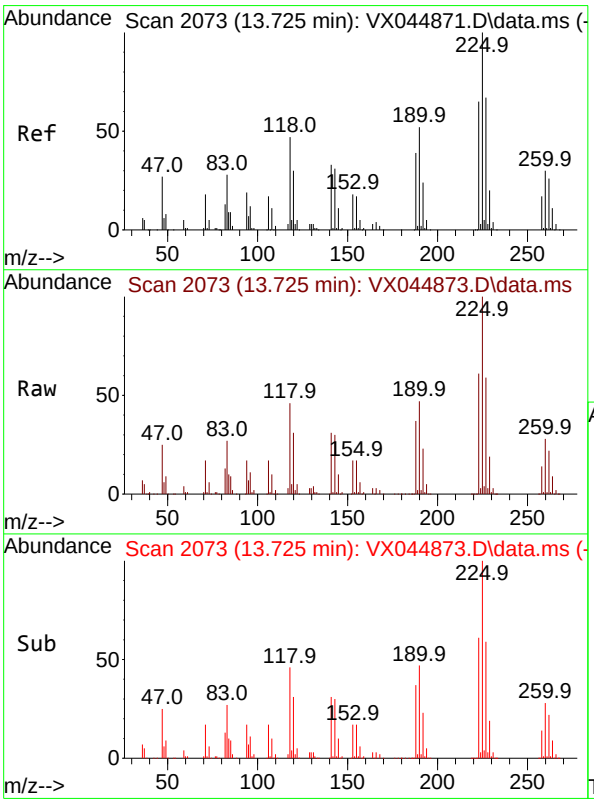
#93
1,2,4-Trichlorobenzene
Concen: 167.095 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 283004

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.6	142.8
145	32.8	16.4	49.1

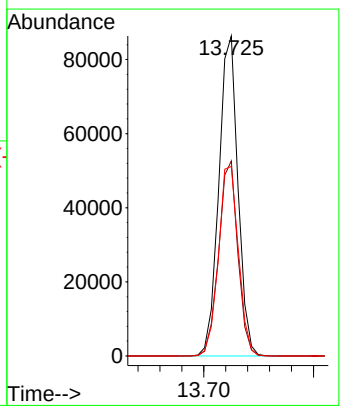


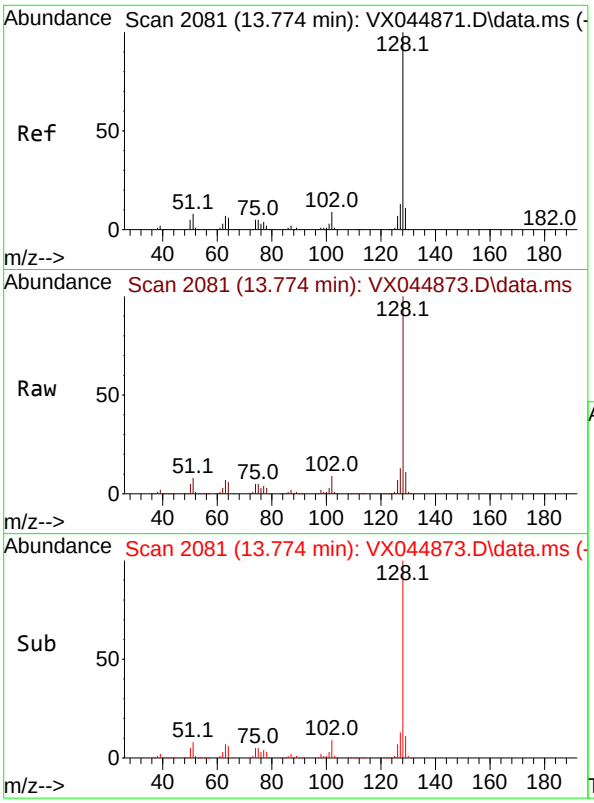


#94
Hexachlorobutadiene
Concen: 155.682 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:225 Resp: 104674

Ion	Ratio	Lower	Upper
225	100		
223	60.9	31.4	94.2
227	61.9	32.3	96.8



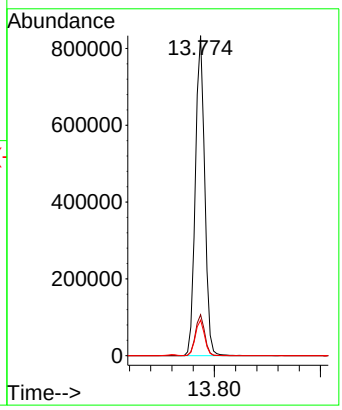


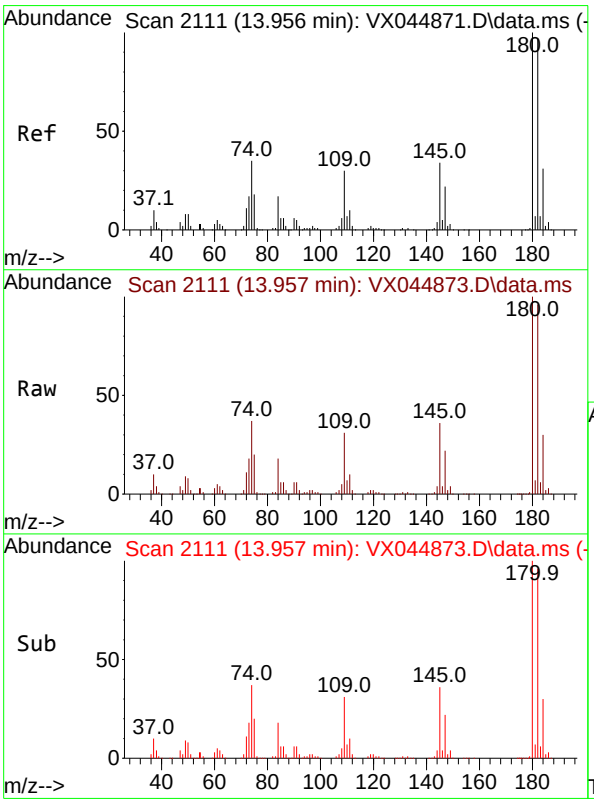
#95
Naphthalene
Concen: 165.916 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1015801

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	11.0	8.9	13.3

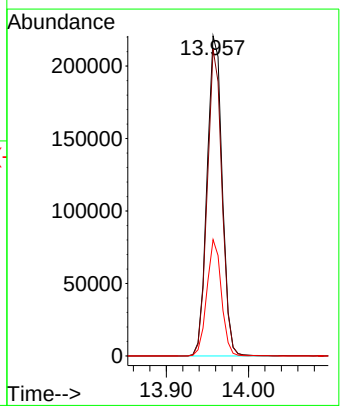




#96
1,2,3-Trichlorobenzene
Concen: 165.408 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:180 Resp: 282289

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.9	143.6
145	34.9	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	135936	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	245098	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213248	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95635	48.061	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.120%			
35) Dibromofluoromethane	5.379	113	78360	49.173	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.340%			
50) Toluene-d8	8.647	98	299178	49.649	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.300%			
62) 4-Bromofluorobenzene	11.079	95	105201	51.786	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	93752	49.173	ug/l	99
3) Chloromethane	1.300	50	110431	47.590	ug/l	98
4) Vinyl Chloride	1.374	62	105730	47.033	ug/l	100
5) Bromomethane	1.593	94	31428	46.719	ug/l	97
6) Chloroethane	1.660	64	37913	42.198	ug/l	99
7) Trichlorofluoromethane	1.867	101	138044	48.558	ug/l	97
8) Diethyl Ether	2.130	74	49018	47.544	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	86892	50.588	ug/l	98
10) Methyl Iodide	2.447	142	111488	50.082	ug/l	100
11) Tert butyl alcohol	2.983	59	92949	251.791	ug/l	100
12) 1,1-Dichloroethene	2.306	96	83987	47.935	ug/l	95
13) Acrolein	2.233	56	91744	240.879	ug/l	98
14) Allyl chloride	2.654	41	155084	48.976	ug/l	99
15) Acrylonitrile	3.062	53	247921	251.537	ug/l	99
16) Acetone	2.379	43	205743	257.198	ug/l	98
17) Carbon Disulfide	2.501	76	237694	49.472	ug/l	100
18) Methyl Acetate	2.703	43	126015	49.920	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	275685	49.453	ug/l	99
20) Methylene Chloride	2.782	84	94006	47.978	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	84720	49.129	ug/l	98
22) Diisopropyl ether	3.757	45	300357	50.138	ug/l	98
23) Vinyl Acetate	3.715	43	1257431	257.465	ug/l	100
24) 1,1-Dichloroethane	3.599	63	165351	49.329	ug/l	99
25) 2-Butanone	4.556	43	335358	258.175	ug/l	97
26) 2,2-Dichloropropane	4.464	77	133670	50.285	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	102518	49.493	ug/l	99
28) Bromochloromethane	4.891	49	72893	45.250	ug/l	99
29) Tetrahydrofuran	5.001	42	218496	253.318	ug/l	100
30) Chloroform	5.086	83	157312	48.393	ug/l	98
31) Cyclohexane	5.458	56	152073	49.211	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	134626	48.825	ug/l	100
36) 1,1-Dichloropropene	5.684	75	111968	48.702	ug/l	99
37) Ethyl Acetate	4.708	43	126071	49.300	ug/l	99
38) Carbon Tetrachloride	5.672	117	110581	49.083	ug/l	97
39) Methylcyclohexane	7.372	83	158289	53.254	ug/l	98
40) Benzene	6.031	78	358365	49.919	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	73559	53.741	ug/l		99
42) 1,2-Dichloroethane	6.080	62	115339	50.410	ug/l		100
43) Isopropyl Acetate	6.336	43	213901	51.798	ug/l		100
44) Trichloroethene	7.116	130	81911	49.917	ug/l		99
45) 1,2-Dichloropropane	7.427	63	89992	50.387	ug/l		98
46) Dibromomethane	7.580	93	61360	49.540	ug/l		99
47) Bromodichloromethane	7.818	83	122265	50.980	ug/l		99
48) Methyl methacrylate	7.690	41	102900	52.848	ug/l		99
49) 1,4-Dioxane	7.659	88	42658	1021.138	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	665564	265.112	ug/l		100
52) Toluene	8.714	92	216682	50.680	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	130405	53.731	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	143379	52.986	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	83510	50.811	ug/l		100
56) Ethyl methacrylate	9.116	69	143524	54.068	ug/l		99
57) 1,3-Dichloropropane	9.305	76	146236	50.852	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	370622	284.352	ug/l		99
59) 2-Hexanone	9.427	43	488298	269.951	ug/l		99
60) Dibromochloromethane	9.518	129	90826	51.673	ug/l		99
61) 1,2-Dibromoethane	9.604	107	85683	51.436	ug/l		100
64) Tetrachloroethene	9.268	164	66468	49.424	ug/l		98
65) Chlorobenzene	10.079	112	233373	50.952	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	75488	51.205	ug/l		98
67) Ethyl Benzene	10.189	91	415575	51.415	ug/l		99
68) m/p-Xylenes	10.299	106	310925	104.282	ug/l		100
69) o-Xylene	10.640	106	151995	50.804	ug/l		100
70) Styrene	10.652	104	257972	53.521	ug/l		100
71) Bromoform	10.799	173	59409	53.997	ug/l	#	100
73) Isopropylbenzene	10.957	105	390246	49.921	ug/l		100
74) N-amyl acetate	10.841	43	186145	52.621	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	129829	48.331	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	143167	66.510	ug/l		83
77) Bromobenzene	11.195	156	88129	49.725	ug/l		100
78) n-propylbenzene	11.299	91	463655	51.386	ug/l		99
79) 2-Chlorotoluene	11.360	91	272091	49.065	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	323251	50.956	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	44070	52.665	ug/l		99
82) 4-Chlorotoluene	11.451	91	312112	50.872	ug/l		100
83) tert-Butylbenzene	11.713	119	321772	50.139	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	323035	51.593	ug/l		100
85) sec-Butylbenzene	11.890	105	410197	51.617	ug/l		100
86) p-Isopropyltoluene	12.006	119	336027	52.581	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	164508	50.475	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	163203	49.526	ug/l		100
89) n-Butylbenzene	12.329	91	311764	55.142	ug/l		100
90) Hexachloroethane	12.536	117	61016	50.990	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	161590	50.447	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	25339	51.684	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	102197	52.726	ug/l		99
94) Hexachlorobutadiene	13.719	225	38998	50.683	ug/l		98
95) Naphthalene	13.774	128	371576	53.033	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	100730	51.575	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

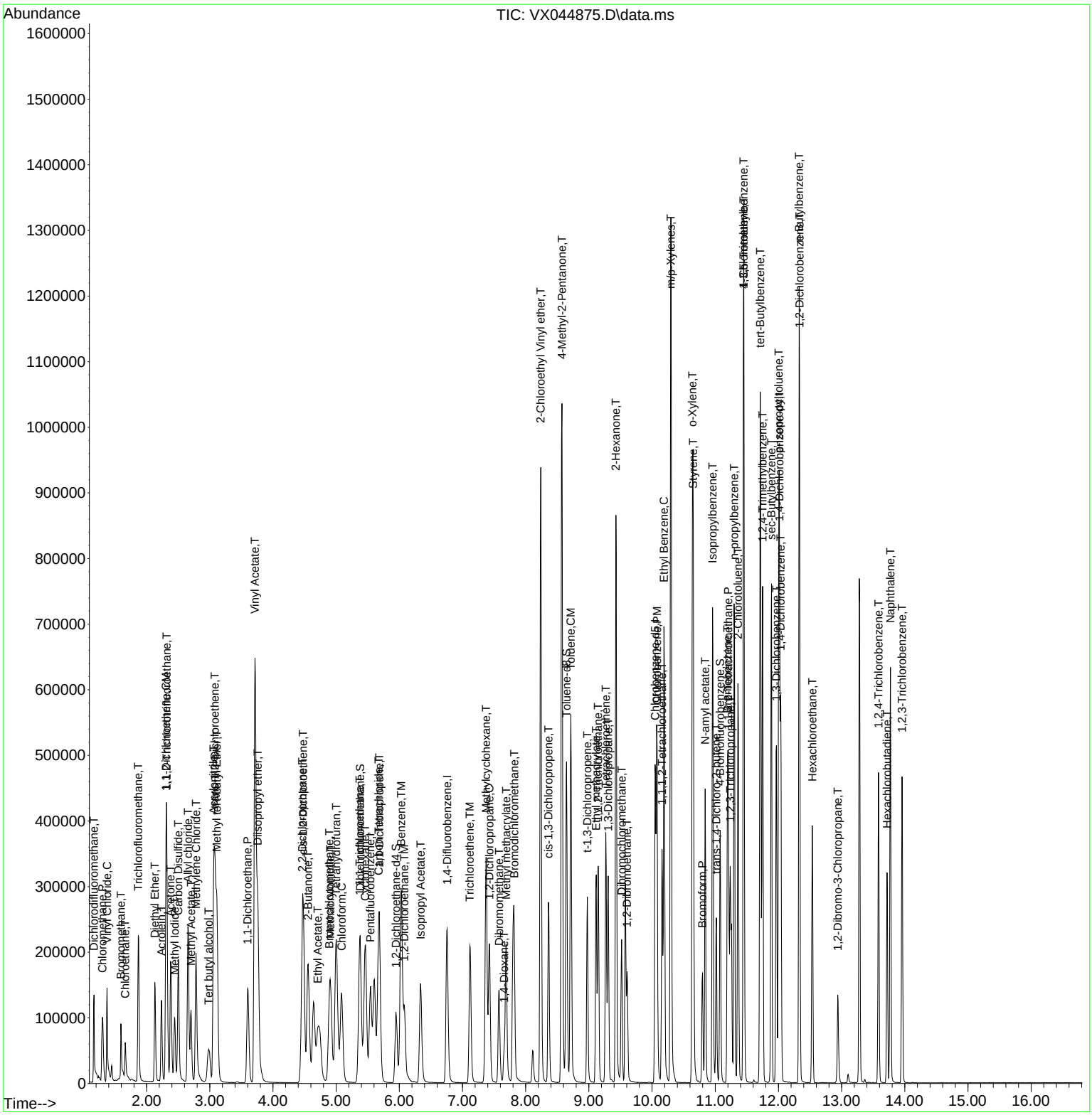
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

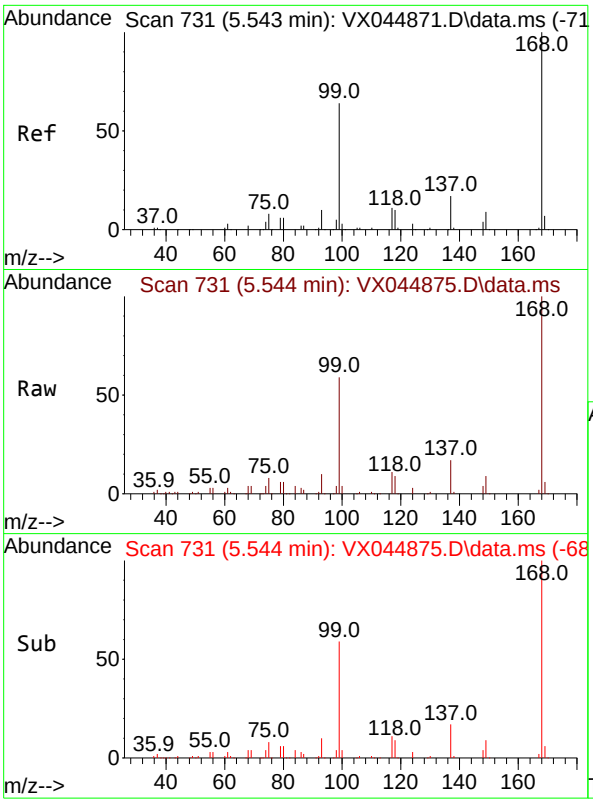
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



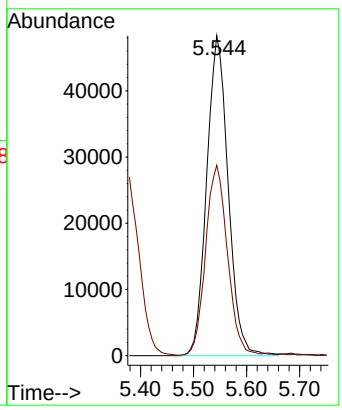


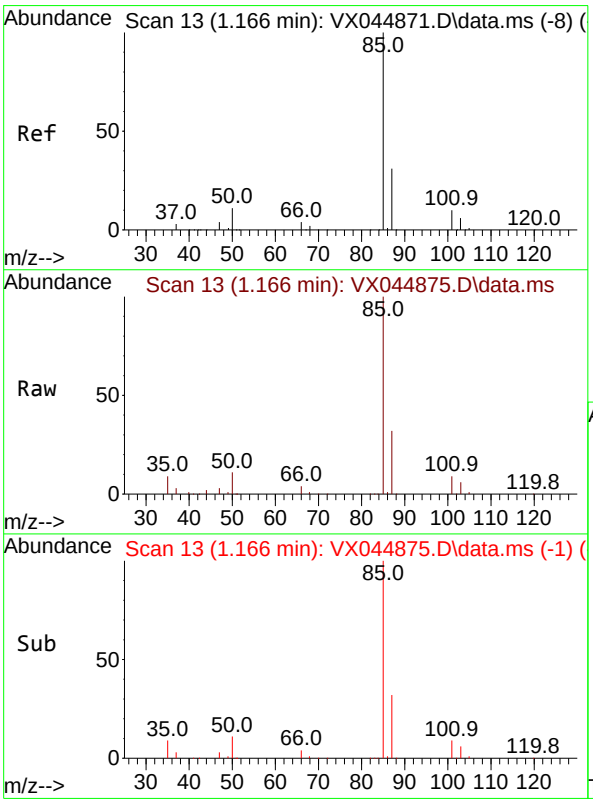
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:168 Resp: 135936

Ion	Ratio	Lower	Upper
168	100		
99	59.3	51.2	76.8

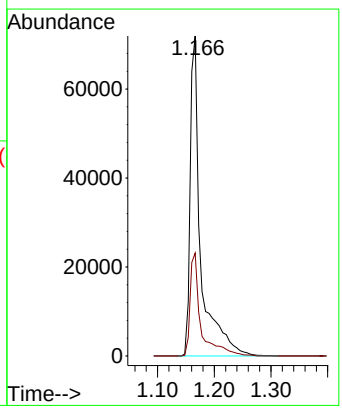


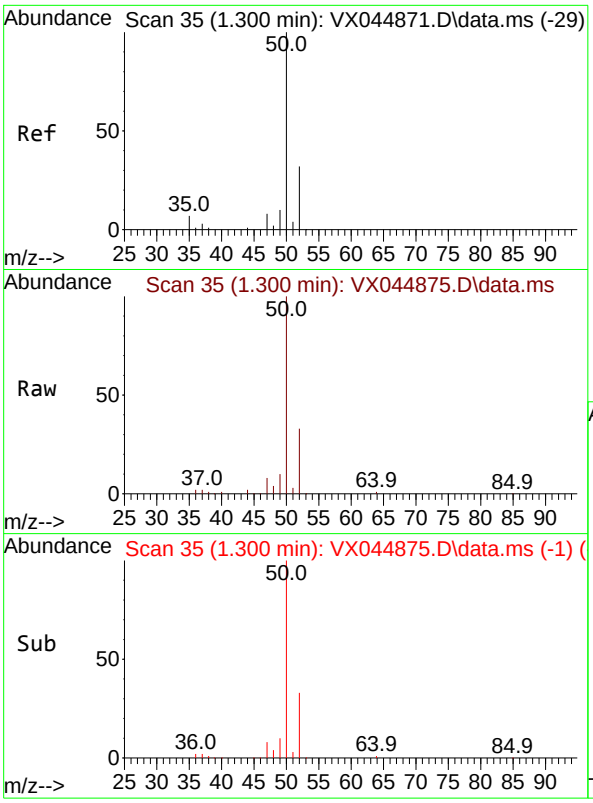


#2
Dichlorodifluoromethane
Concen: 49.173 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 85 Resp: 93752

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.8	47.3



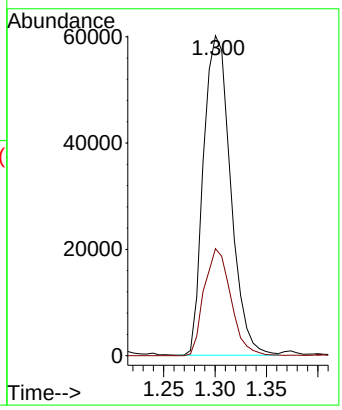


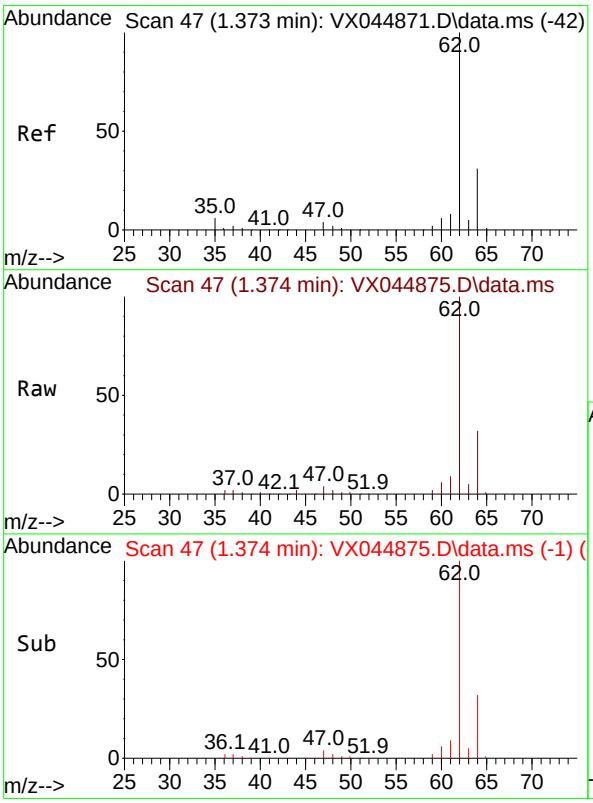
#3
Chloromethane
Concen: 47.590 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 50 Resp: 110431

Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.9	38.9

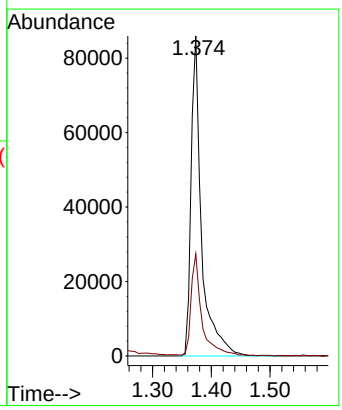


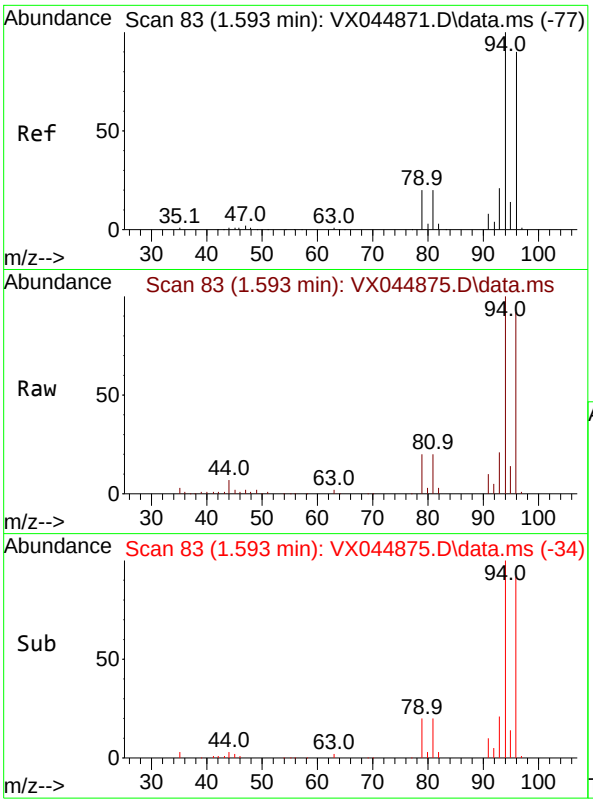


#4
Vinyl Chloride
Concen: 47.033 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 105730

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0



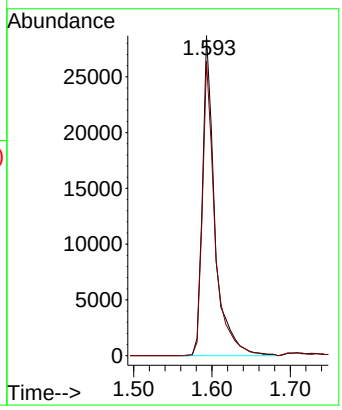


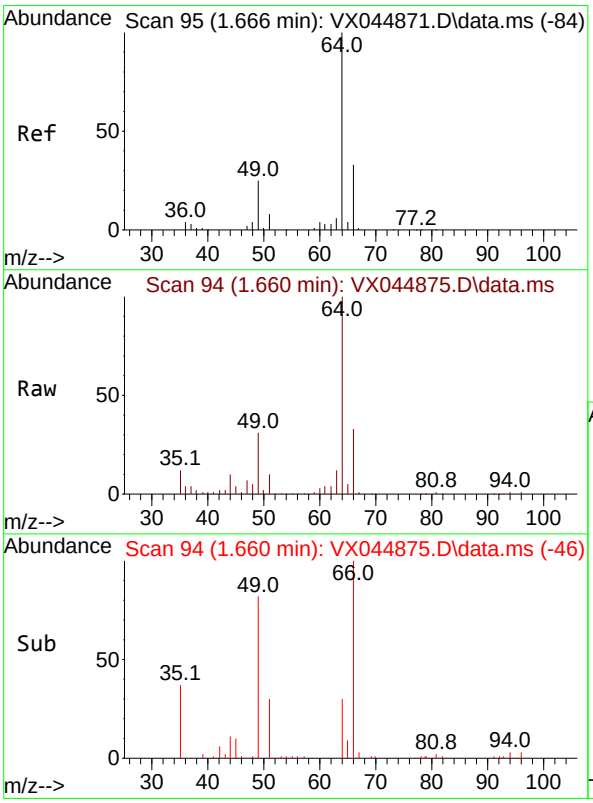
#5
Bromomethane
Concen: 46.719 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 94 Resp: 31428

Ion	Ratio	Lower	Upper
94	100		
96	92.0	71.6	107.4

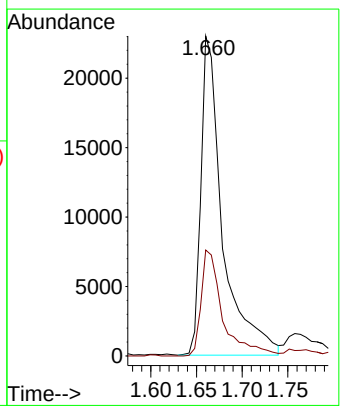


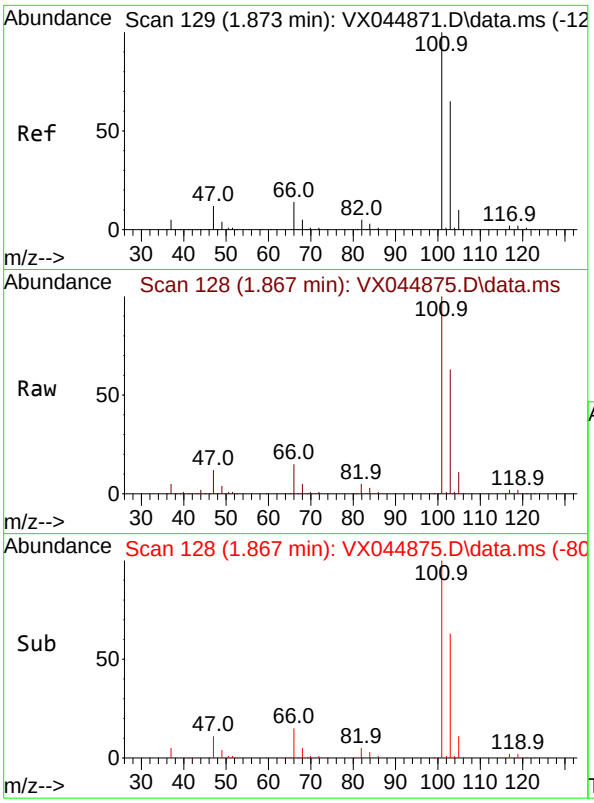


#6
Chloroethane
Concen: 42.198 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 64 Resp: 37913

Ion	Ratio	Lower	Upper
64	100		
66	33.2	25.9	38.9



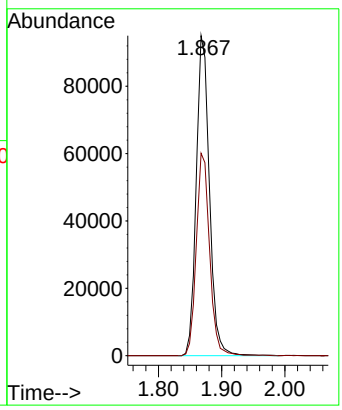


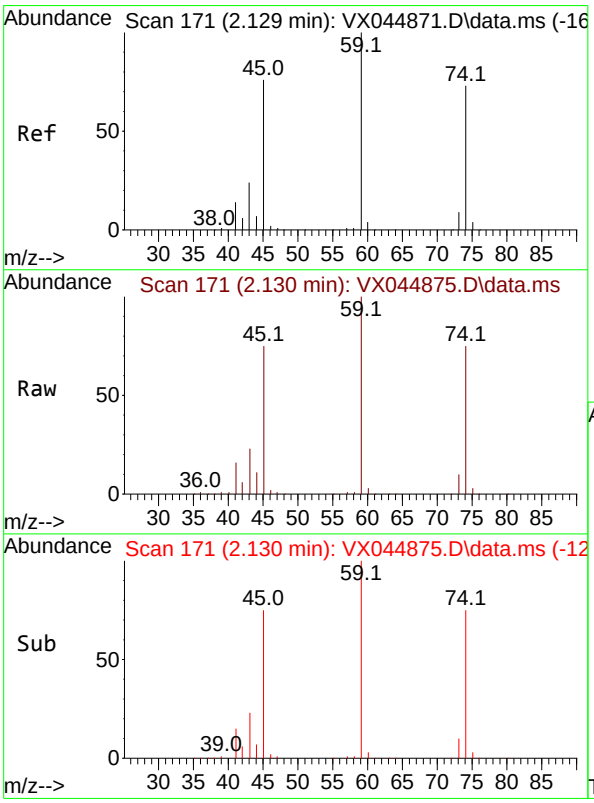
#7
Trichlorofluoromethane
Concen: 48.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:101 Resp: 138044

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.4	78.6

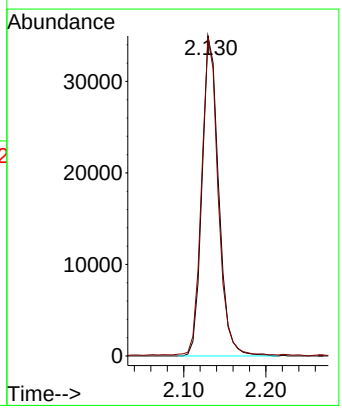


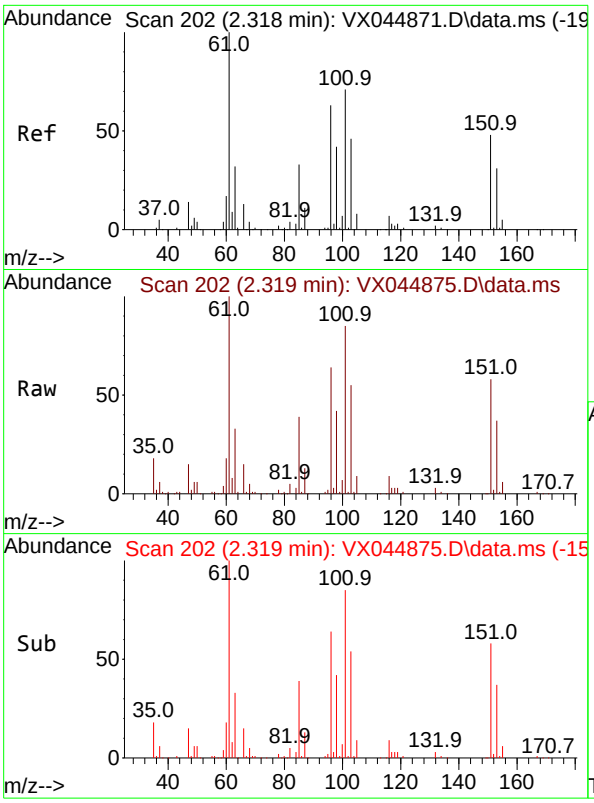


#8
Diethyl Ether
Concen: 47.544 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 74 Resp: 49018

Ion	Ratio	Lower	Upper
74	100		
45	98.9	51.1	153.4



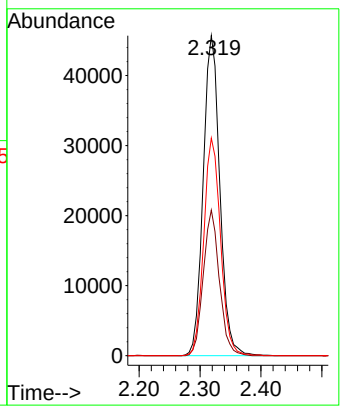


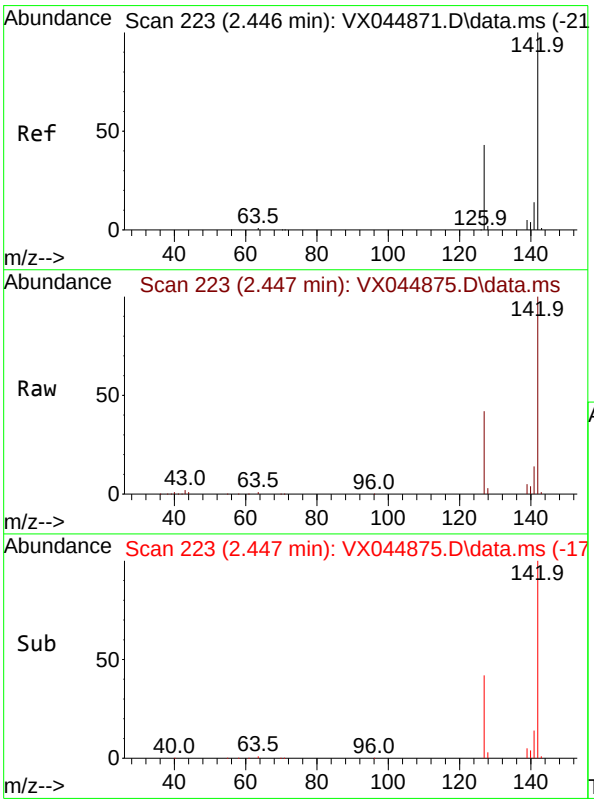
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.588 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:101 Resp: 86892

Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.7	53.5
151	68.4	56.0	84.0

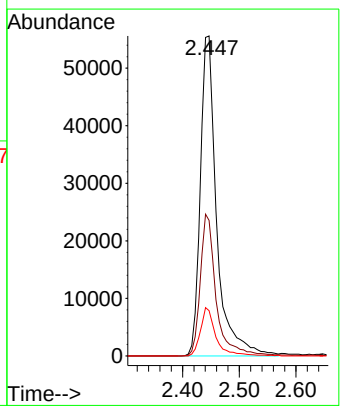


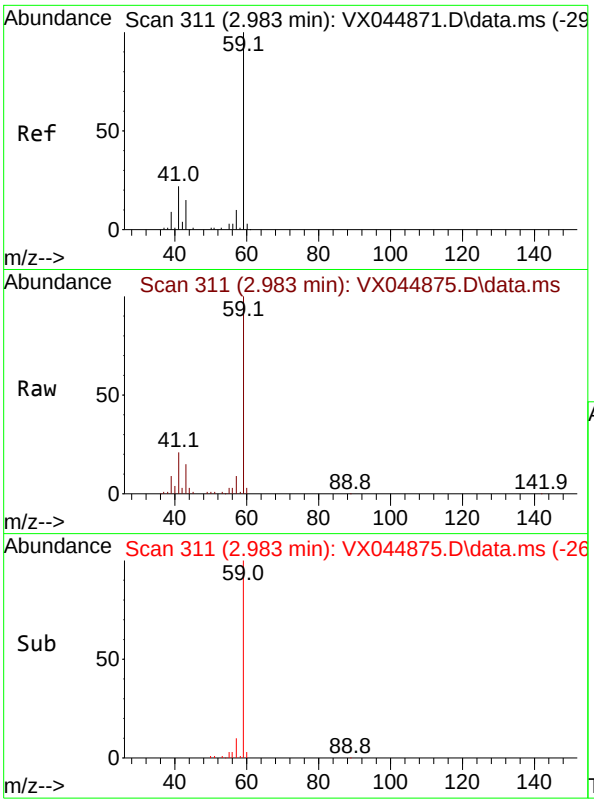


#10
Methyl Iodide
Concen: 50.082 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:142 Resp: 111488

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.3	11.4	17.2



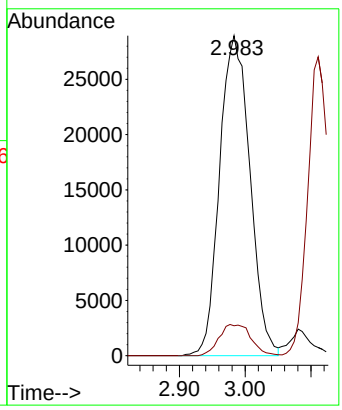


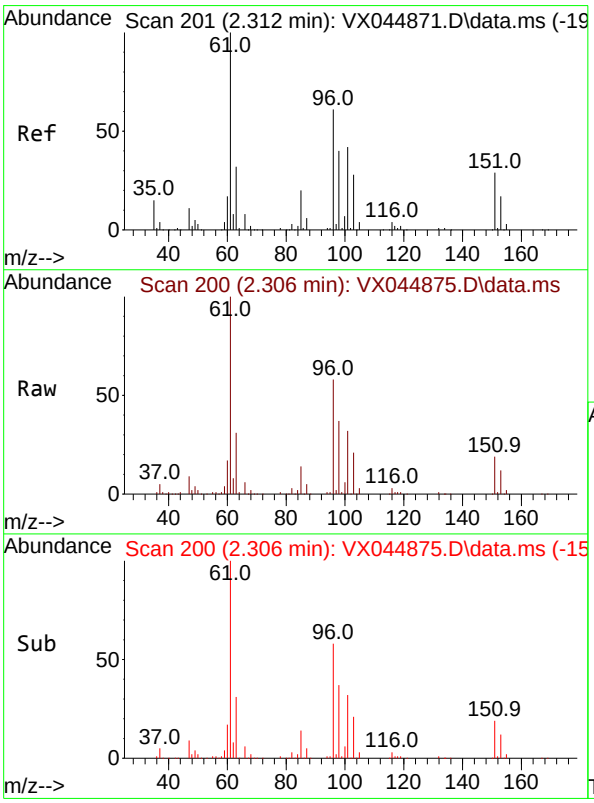
#11
Tert butyl alcohol
Concen: 251.791 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 59 Resp: 92949

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.1	12.1

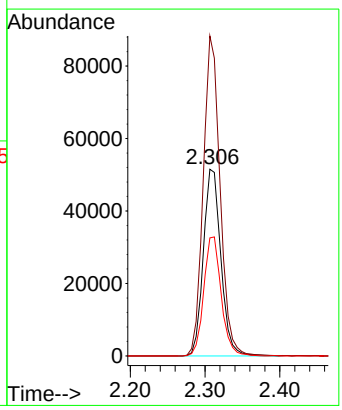


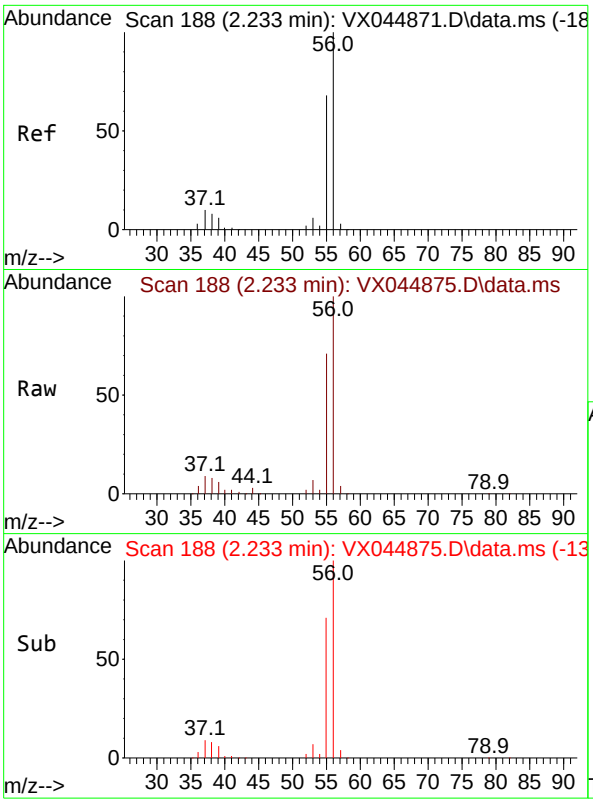


#12
1,1-Dichloroethene
Concen: 47.935 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 96 Resp: 83987

Ion	Ratio	Lower	Upper
96	100		
61	171.4	130.2	195.4
98	63.3	52.2	78.4



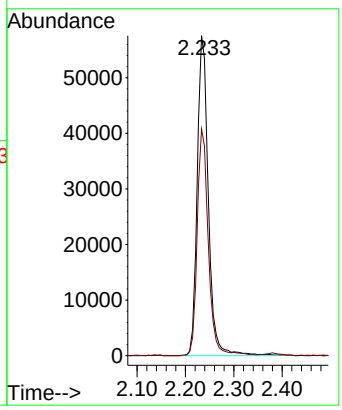


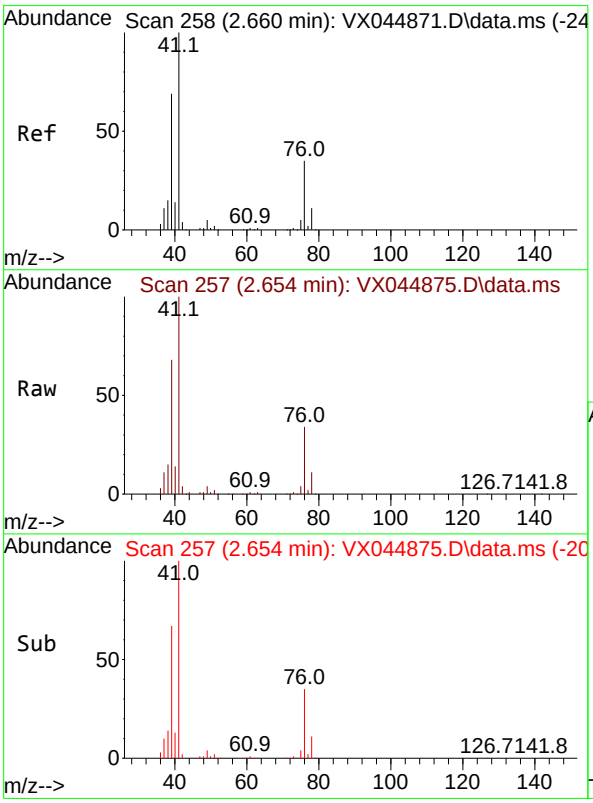
#13
Acrolein
Concen: 240.879 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 56 Resp: 91744

Ion	Ratio	Lower	Upper
56	100		
55	71.0	55.7	83.5

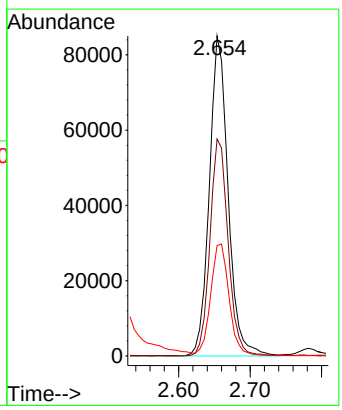


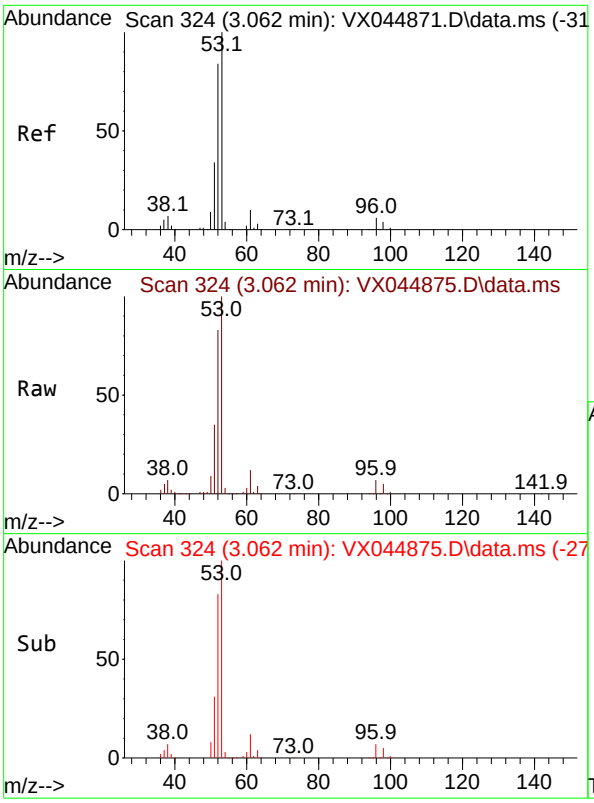


#14
Allyl chloride
Concen: 48.976 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 155084

Ion	Ratio	Lower	Upper
41	100		
39	65.4	51.4	77.2
76	34.2	27.0	40.4



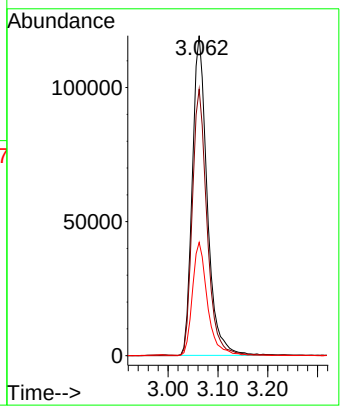


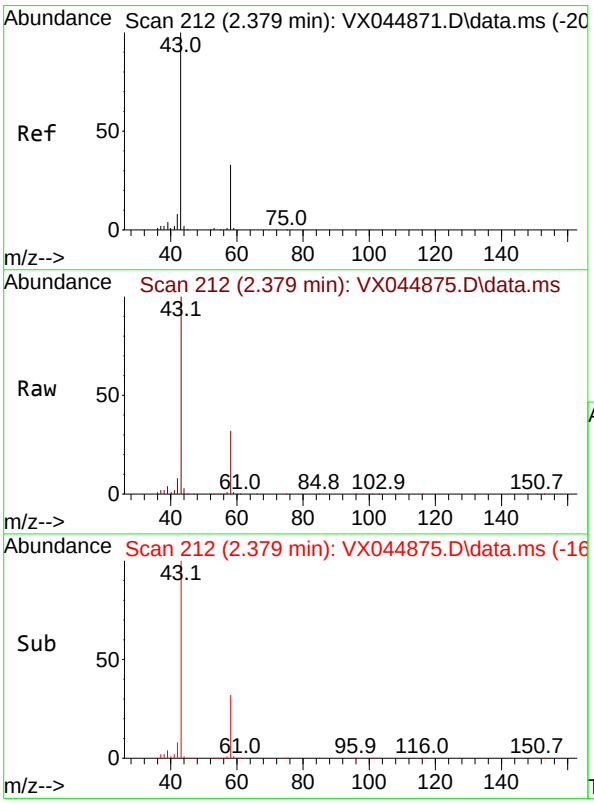
#15
Acrylonitrile
Concen: 251.537 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 53 Resp: 247921

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.0	97.6
51	35.7	28.0	42.0

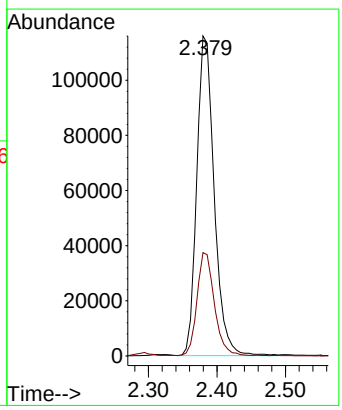


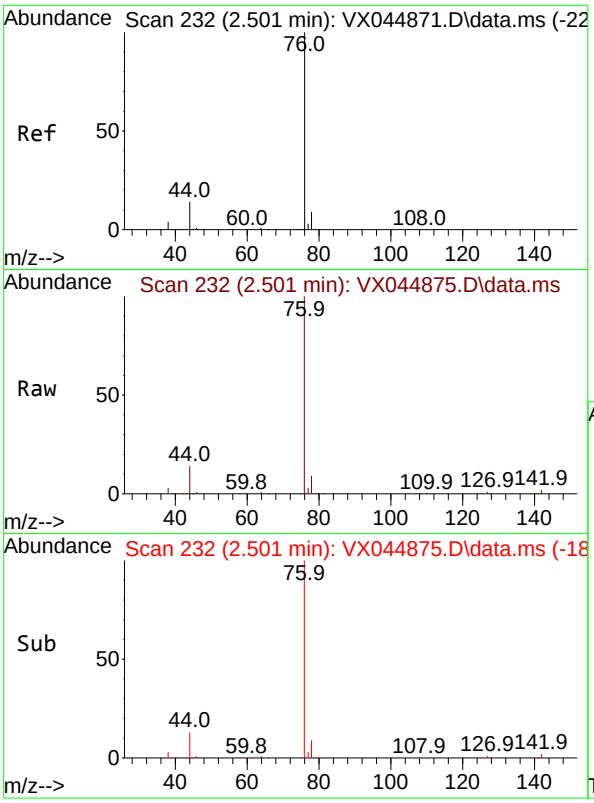


#16
Acetone
Concen: 257.198 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 205743

Ion	Ratio	Lower	Upper
43	100		
58	32.2	26.5	39.7



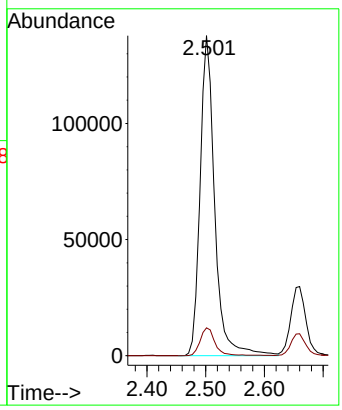


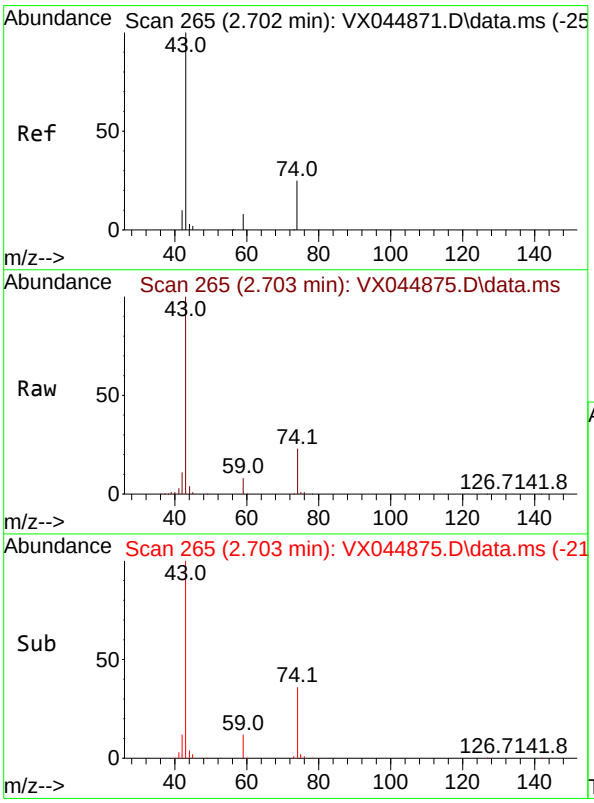
#17
Carbon Disulfide
Concen: 49.472 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 76 Resp: 237694

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

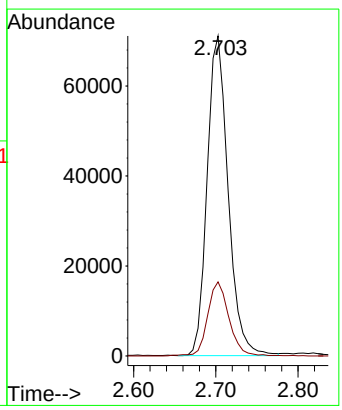


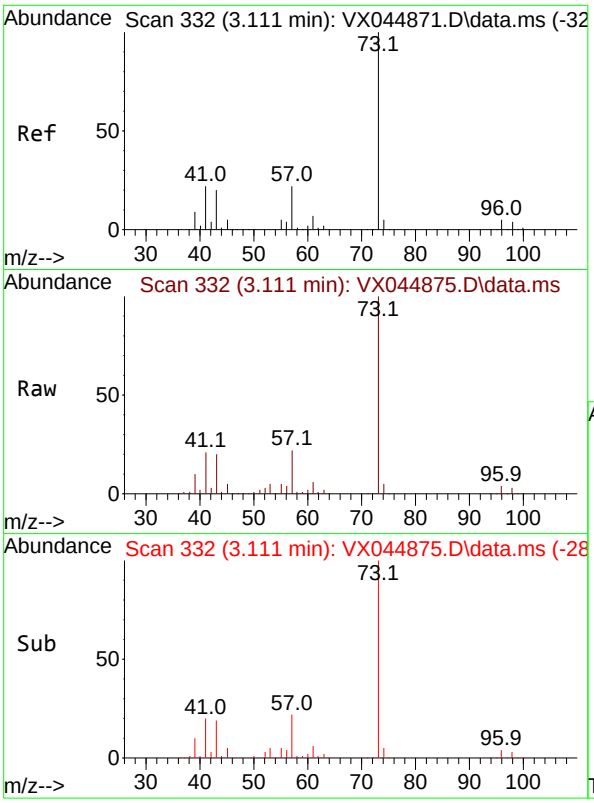


#18
Methyl Acetate
Concen: 49.920 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 126015

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.9	28.3



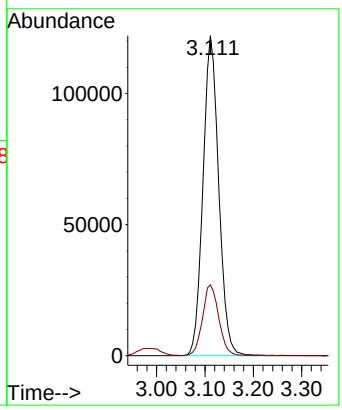


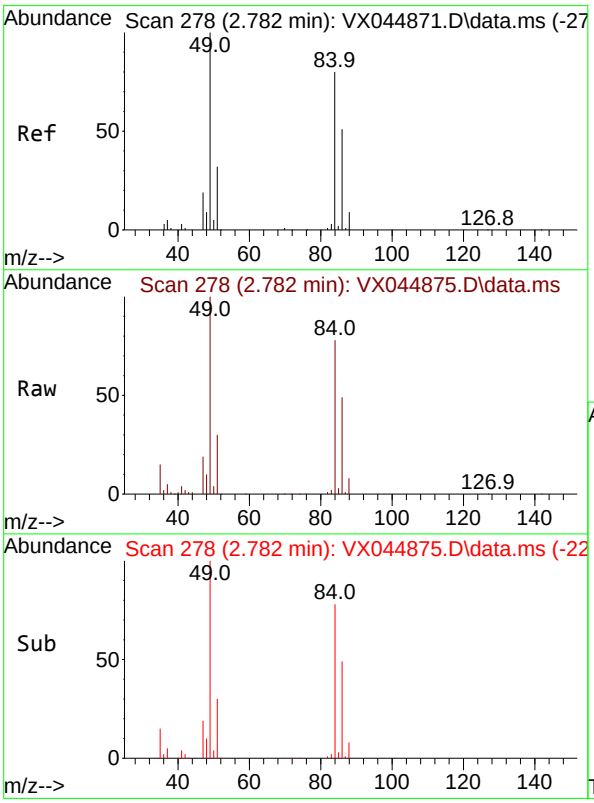
#19
Methyl tert-butyl Ether
Concen: 49.453 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 73 Resp: 275685

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.9	26.9

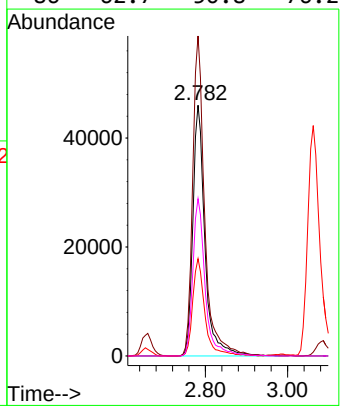


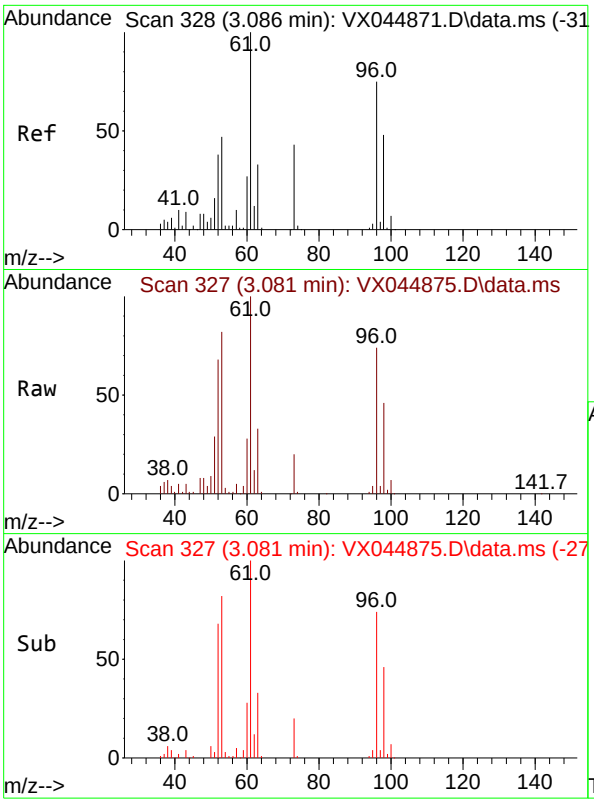


#20
Methylene Chloride
Concen: 47.978 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 84 Resp: 94006

Ion	Ratio	Lower	Upper
84	100		
49	127.6	100.1	150.1
51	38.8	31.7	47.5
86	62.7	50.8	76.2



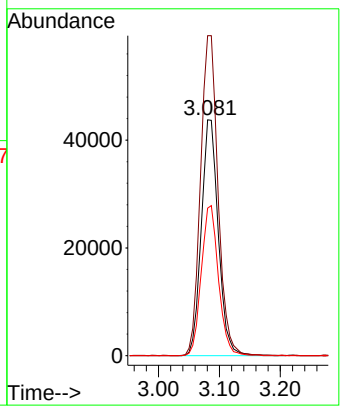


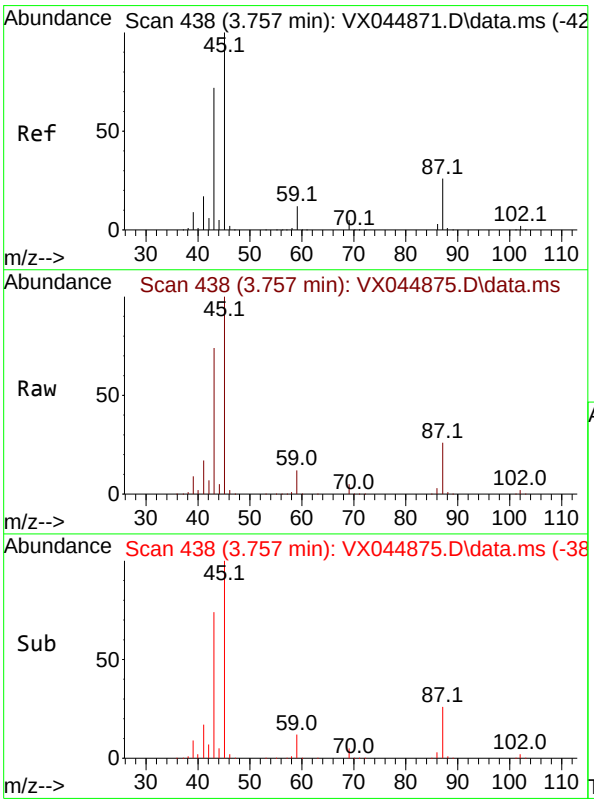
#21
trans-1,2-Dichloroethene
Concen: 49.129 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 96 Resp: 84720

Ion	Ratio	Lower	Upper
96	100		
61	135.7	106.0	159.0
98	62.5	50.6	76.0

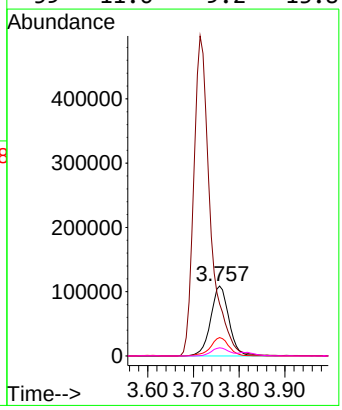


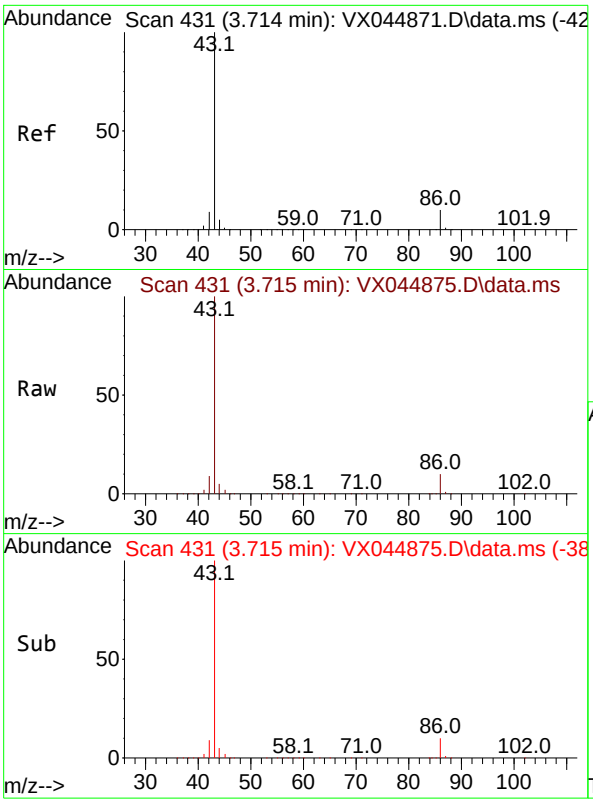


#22
Diisopropyl ether
Concen: 50.138 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 45 Resp: 300357

Ion	Ratio	Lower	Upper
45	100		
43	74.3	58.0	87.0
87	26.4	20.7	31.1
59	11.6	9.2	13.8



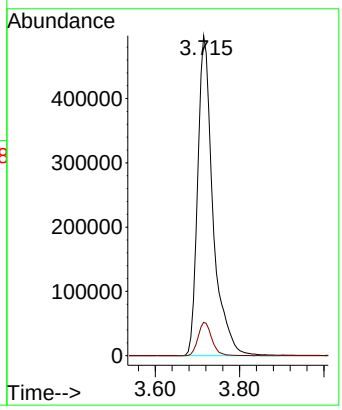


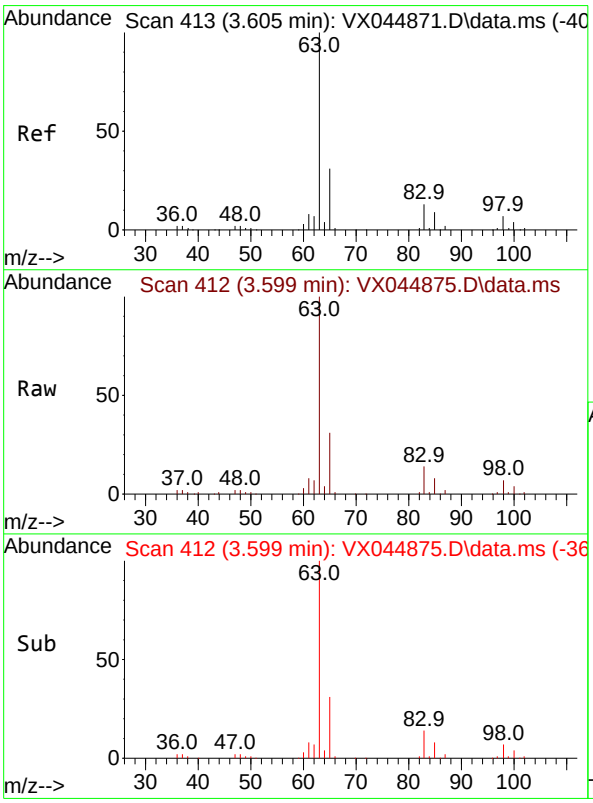
#23
Vinyl Acetate
Concen: 257.465 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 1257431

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5

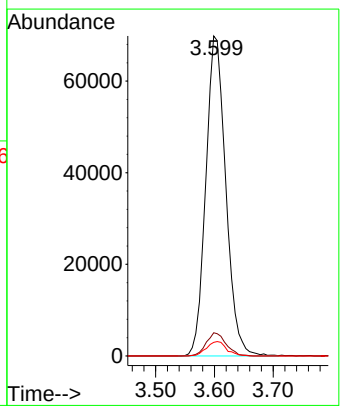


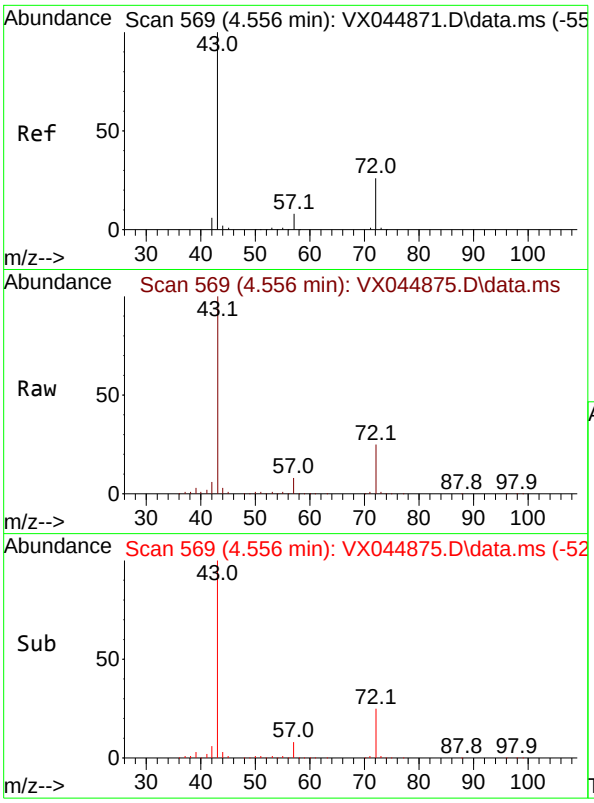


#24
1,1-Dichloroethane
Concen: 49.329 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 165351

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.3	9.9
100	4.2	2.1	6.5



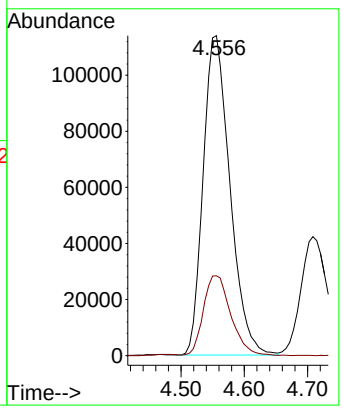


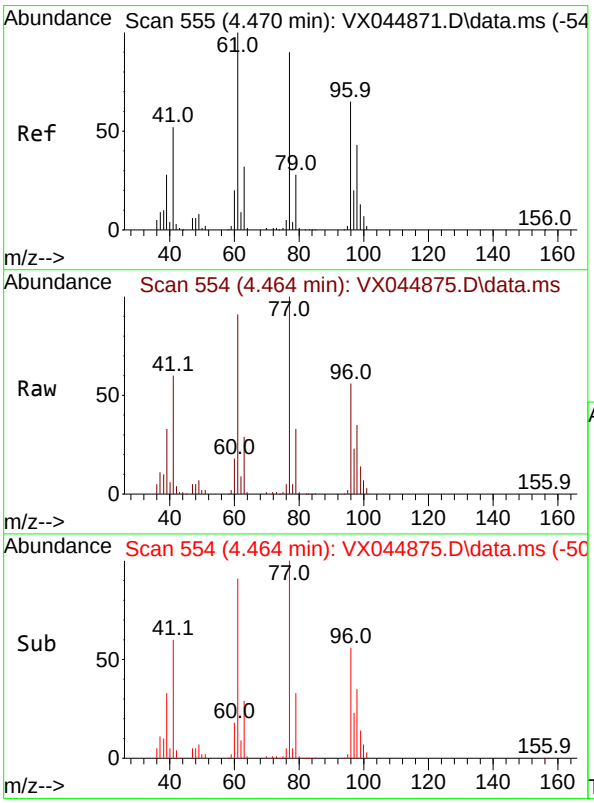
#25
2-Butanone
Concen: 258.175 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 335358

Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.2	31.8

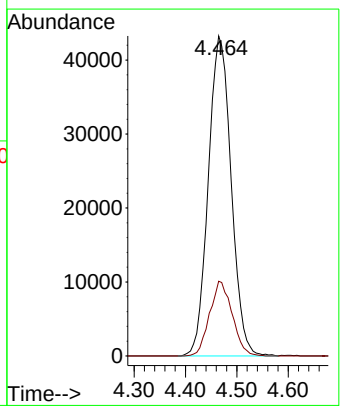


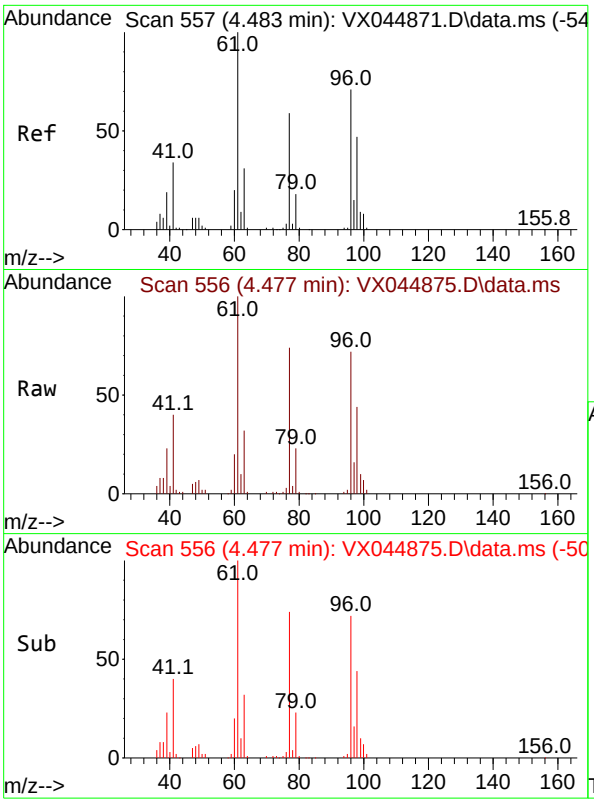


#26
2,2-Dichloropropane
Concen: 50.285 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 77 Resp: 133670

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.8	35.3



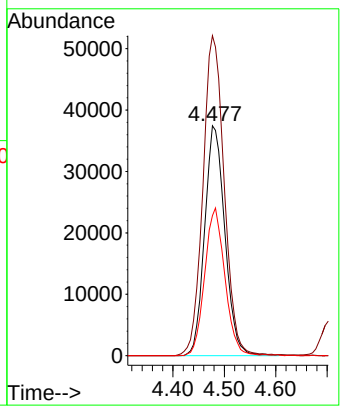


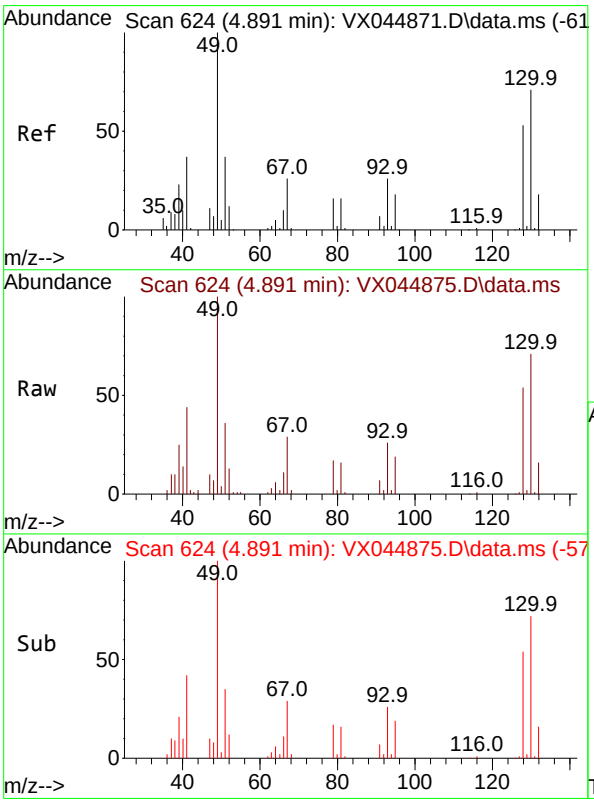
#27
cis-1,2-Dichloroethene
Concen: 49.493 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 96 Resp: 102518

Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	294.0
98	63.9	0.0	131.2

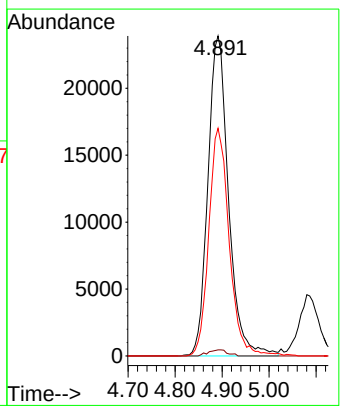


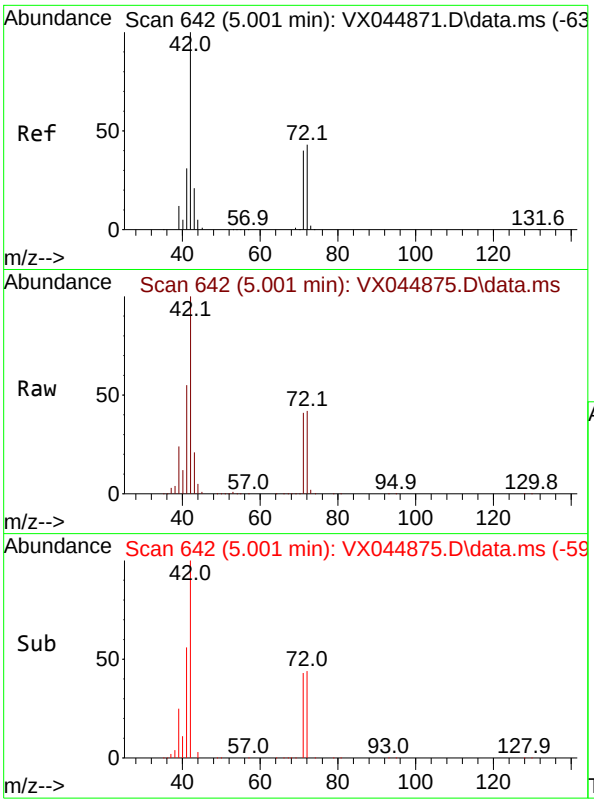


#28
Bromochloromethane
Concen: 45.250 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 49 Resp: 72893

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	70.3	56.7	85.1



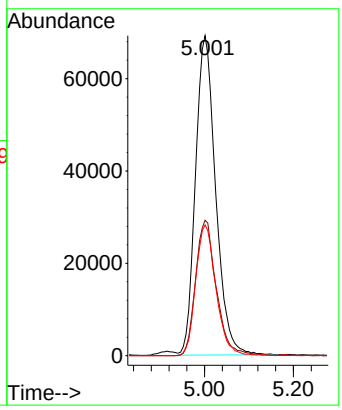


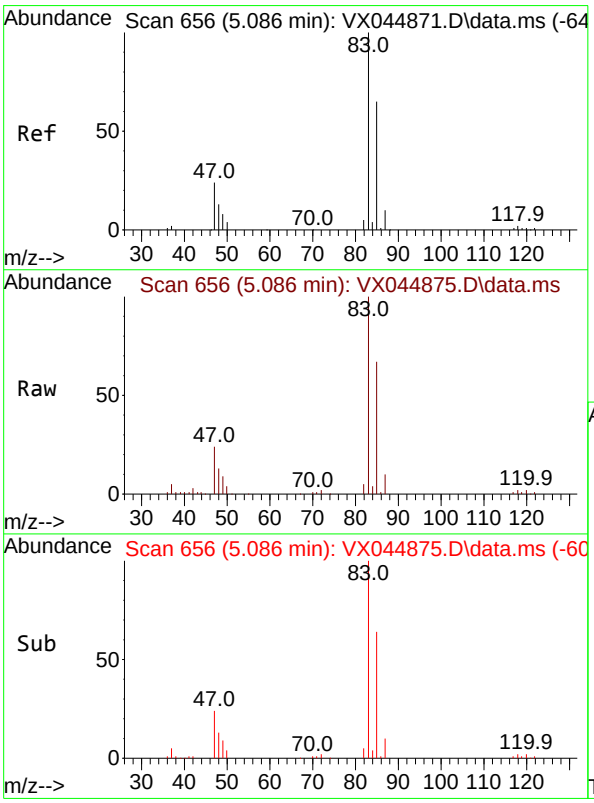
#29
Tetrahydrofuran
Concen: 253.318 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 42 Resp: 218496

Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.0	52.4
71	41.1	32.6	48.8

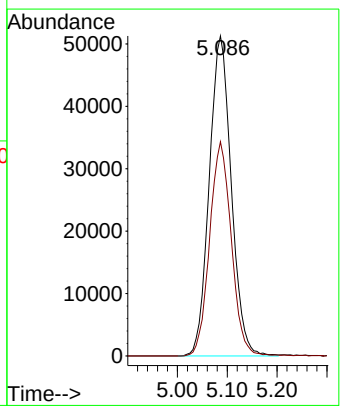


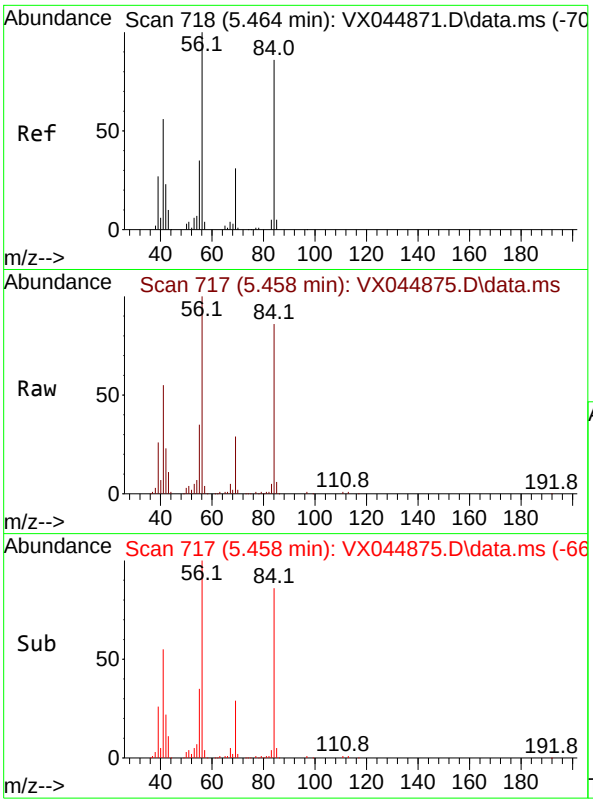


#30
Chloroform
Concen: 48.393 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 157312

Ion	Ratio	Lower	Upper
83	100		
85	66.9	52.1	78.1



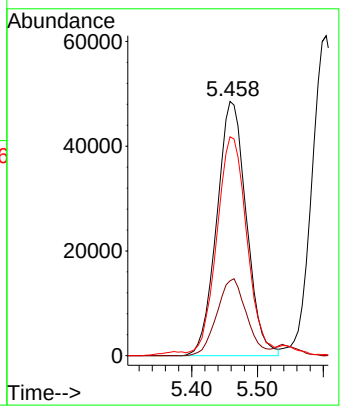


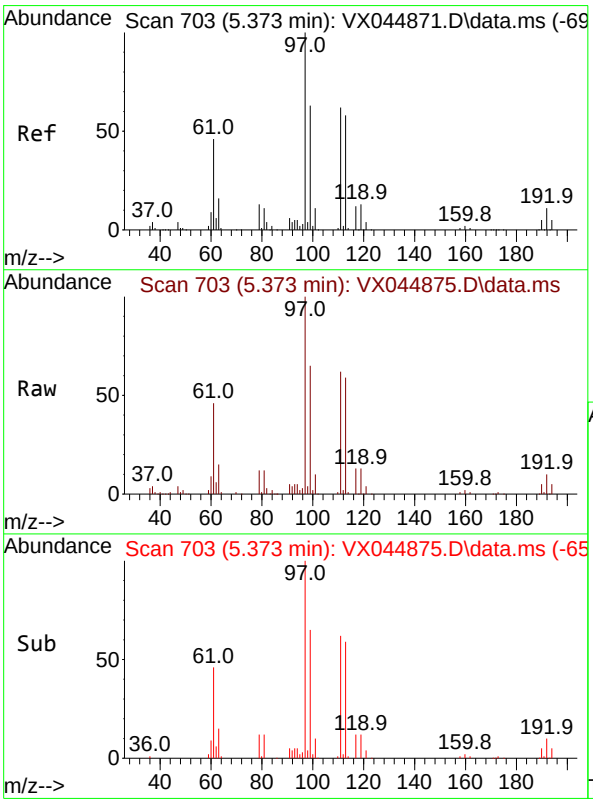
#31
Cyclohexane
Concen: 49.211 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 56 Resp: 152073

Ion	Ratio	Lower	Upper
56	100		
69	29.4	24.4	36.6
84	84.6	69.0	103.6

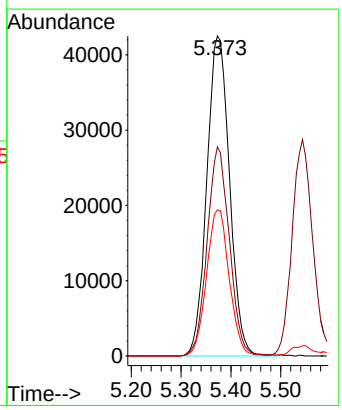


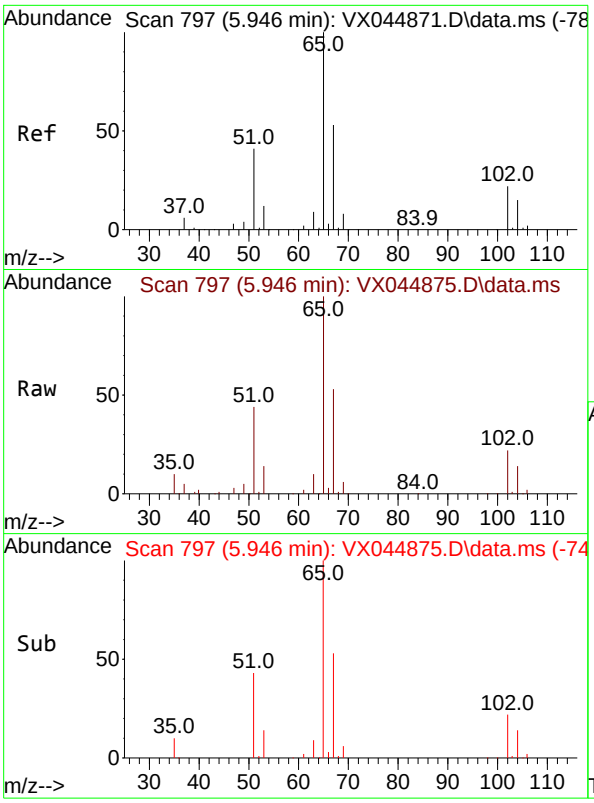


#32
1,1,1-Trichloroethane
Concen: 48.825 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 97 Resp: 134626

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.7	36.6	55.0



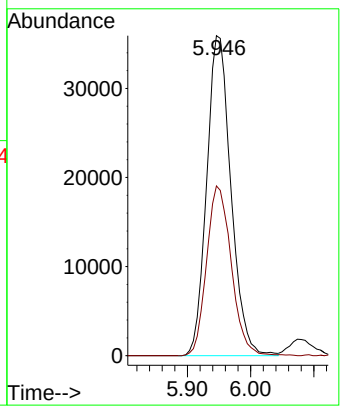


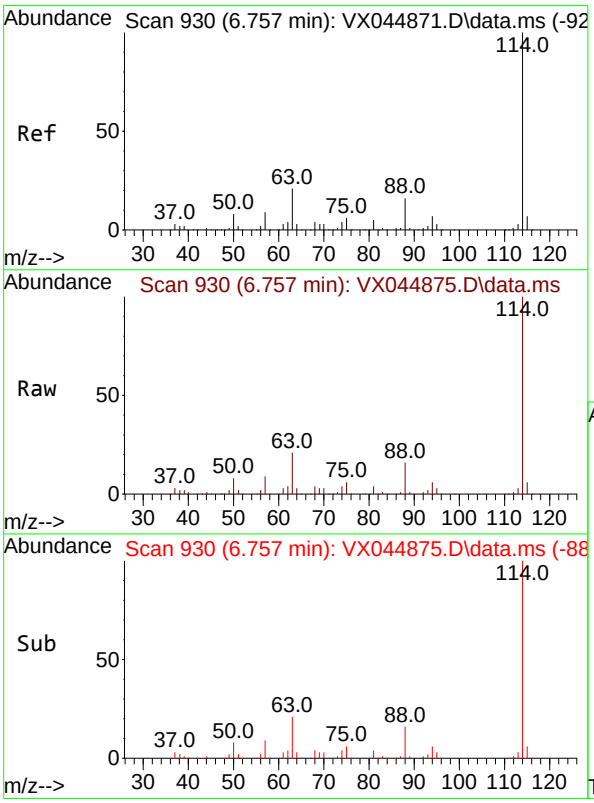
#33
1,2-Dichloroethane-d4
Concen: 48.061 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 65 Resp: 95635

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	108.2

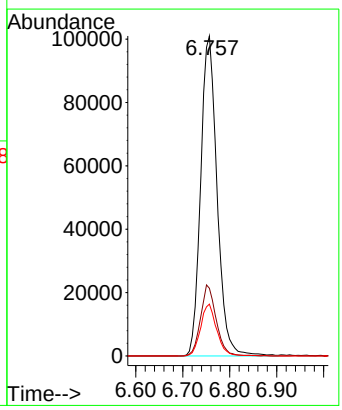


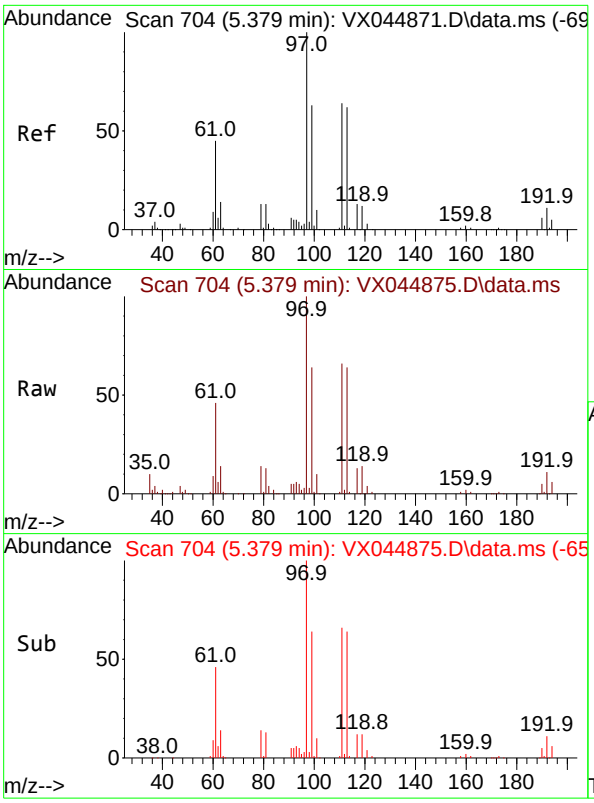


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:114 Resp: 245098

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.2	0.0	31.4



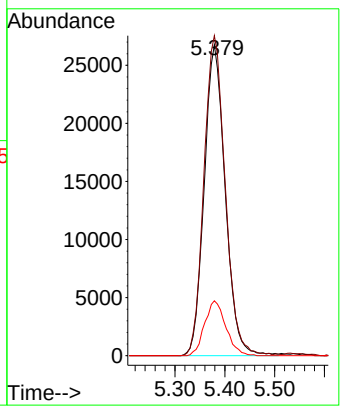


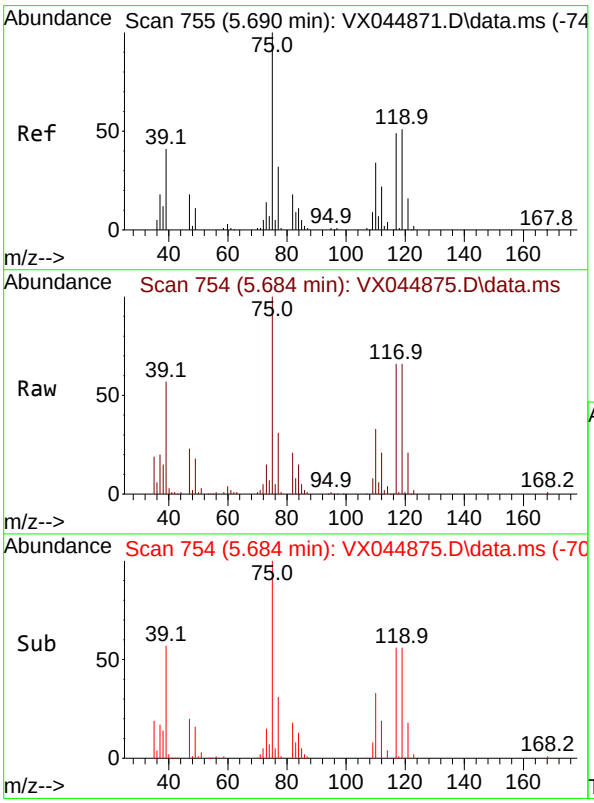
#35
Dibromofluoromethane
Concen: 49.173 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:113 Resp: 78360

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	17.9	14.4	21.6

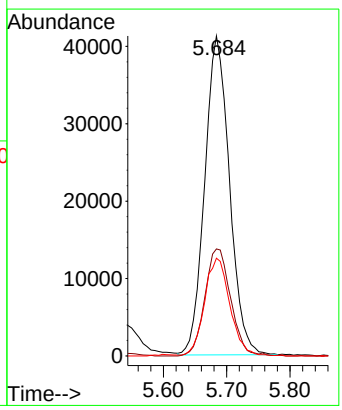


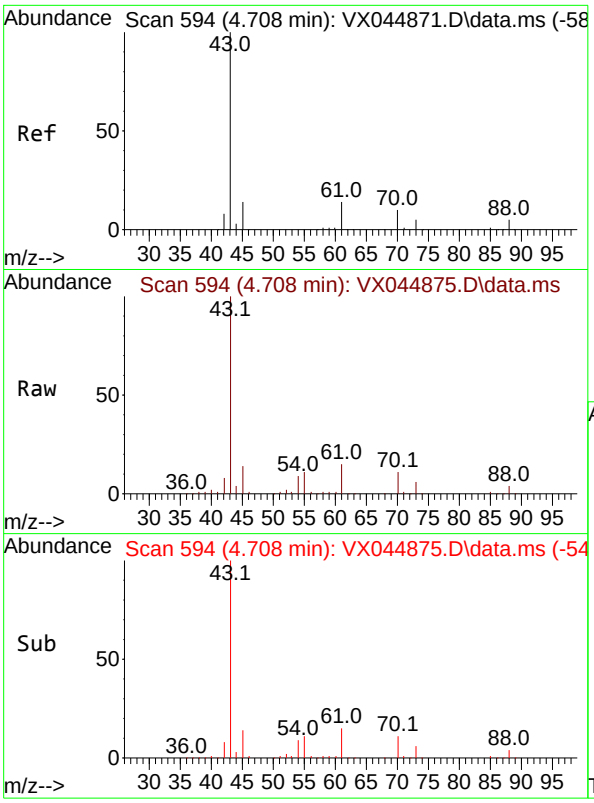


#36
1,1-Dichloropropene
Concen: 48.702 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 111968

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.2	51.6
77	31.6	24.6	37.0



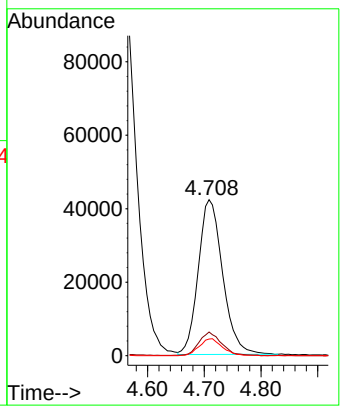


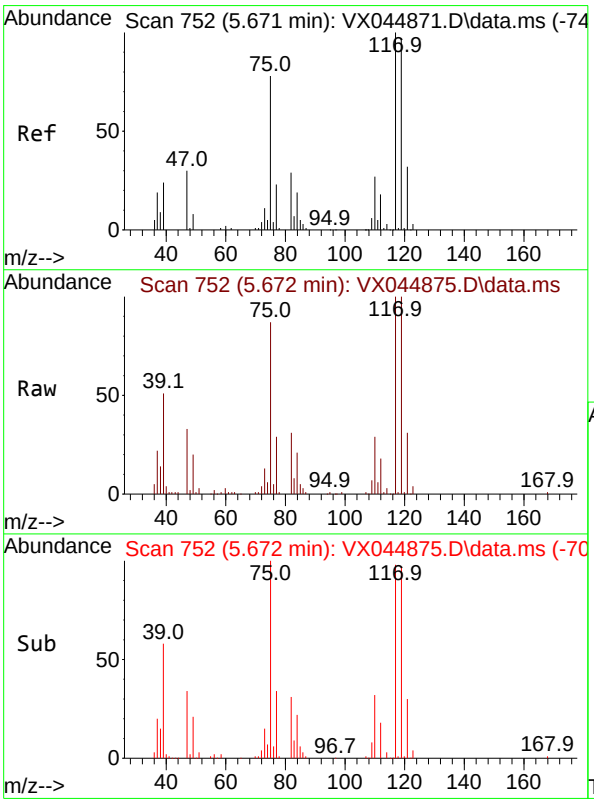
#37
Ethyl Acetate
Concen: 49.300 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 126071

Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.0	16.4
70	10.4	8.2	12.2

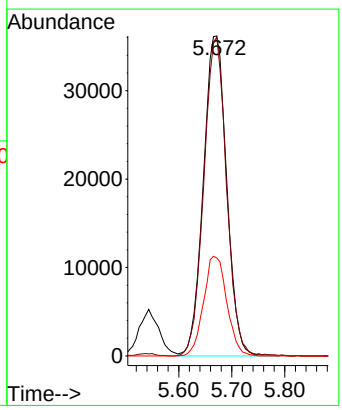


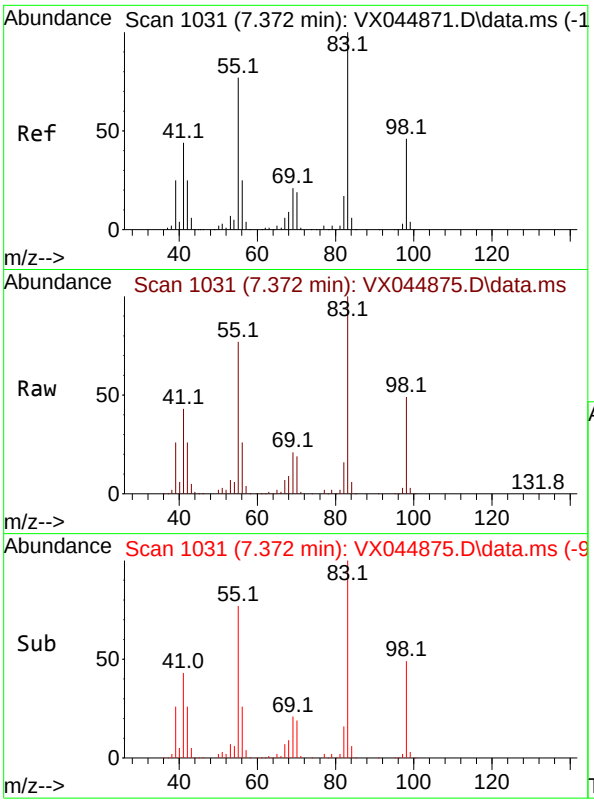


#38
Carbon Tetrachloride
Concen: 49.083 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 110581

Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.5	116.3
121	30.6	25.6	38.4



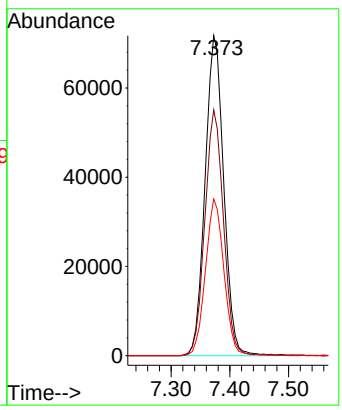


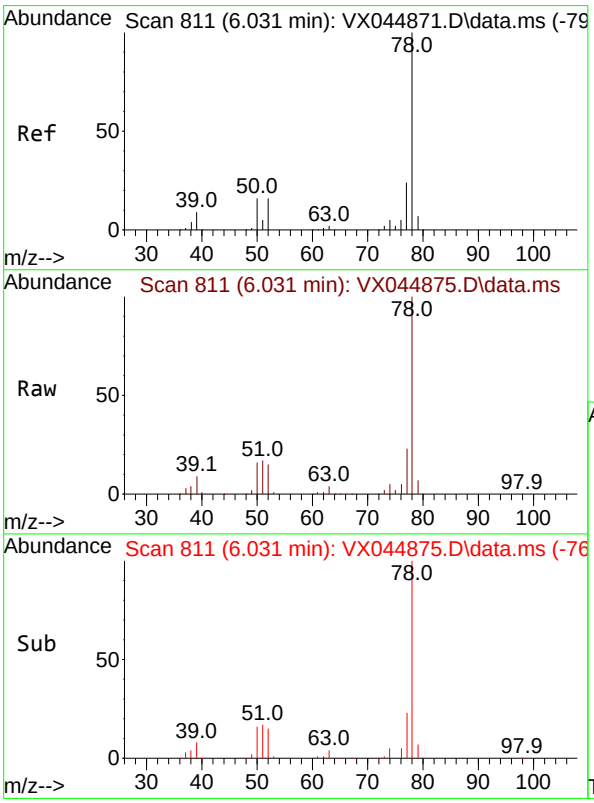
#39
Methylcyclohexane
Concen: 53.254 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 83 Resp: 158289

Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.3	91.9
98	49.0	37.0	55.6

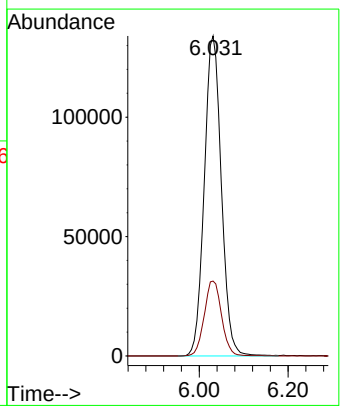


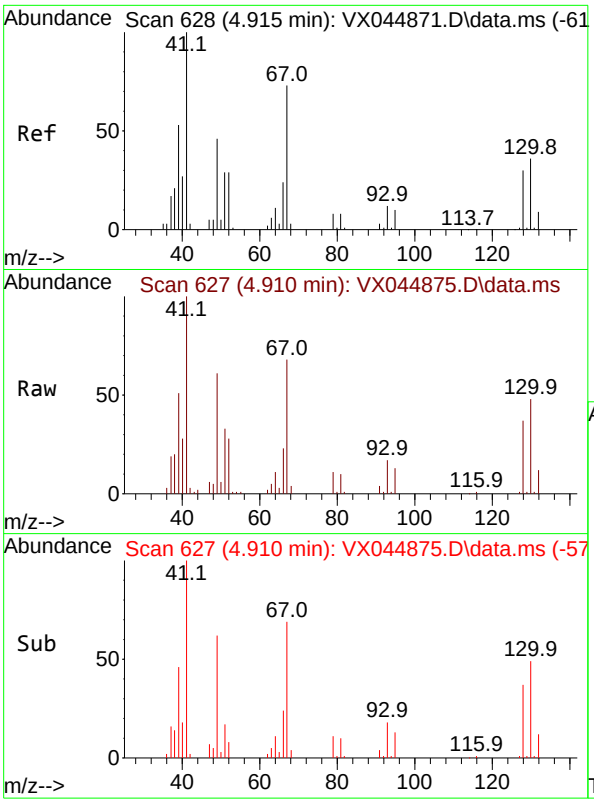


#40
Benzene
Concen: 49.919 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 78 Resp: 358365

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6



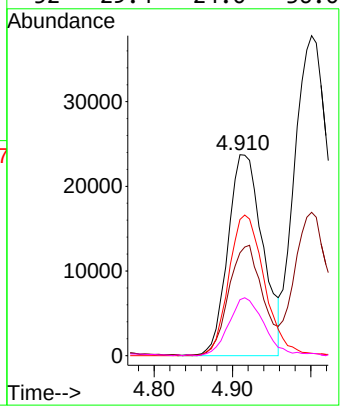


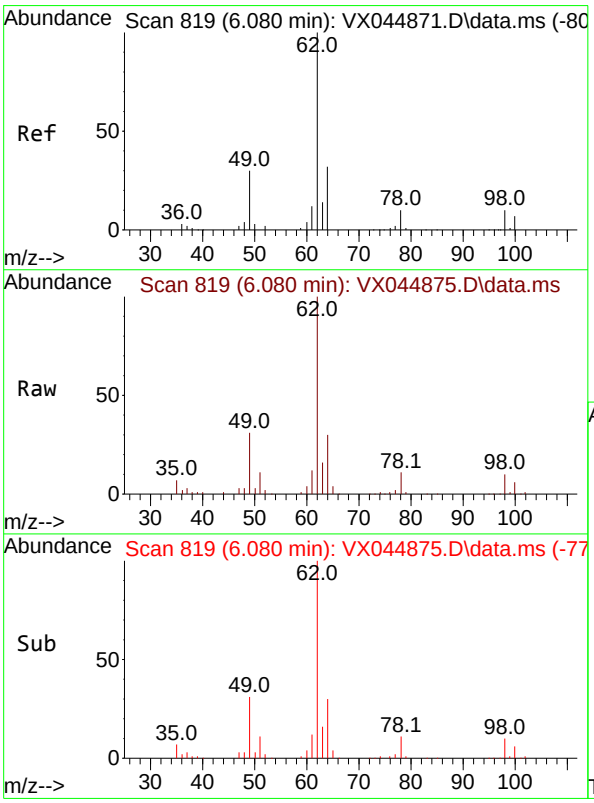
#41
Methacrylonitrile
Concen: 53.741 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 41 Resp: 73559

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.1	64.7
67	71.9	57.0	85.6
52	29.4	24.0	36.0

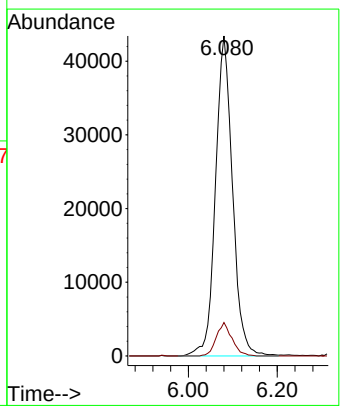


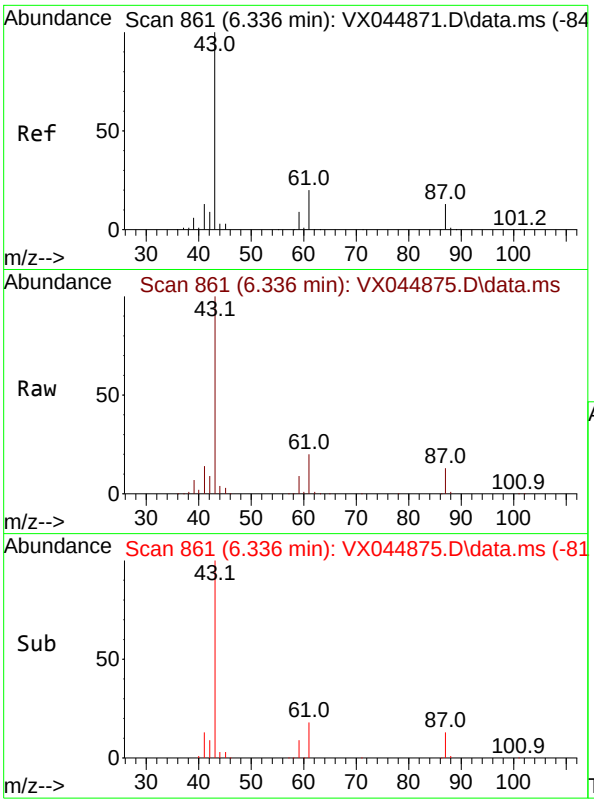


#42
1,2-Dichloroethane
Concen: 50.410 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 115339

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4



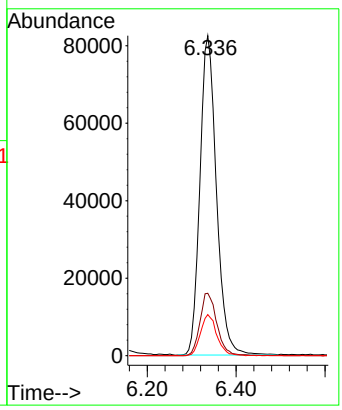


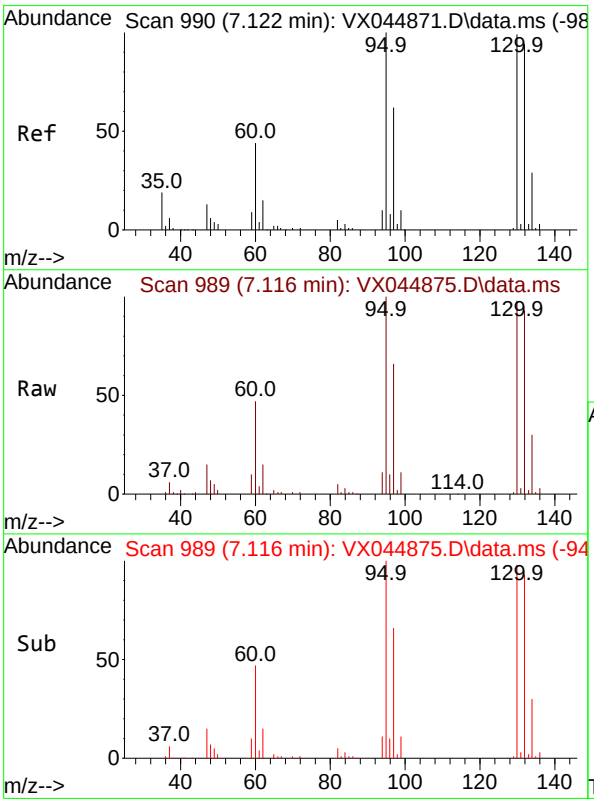
#43
Isopropyl Acetate
Concen: 51.798 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 213901

Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.8
87	12.6	10.0	15.0

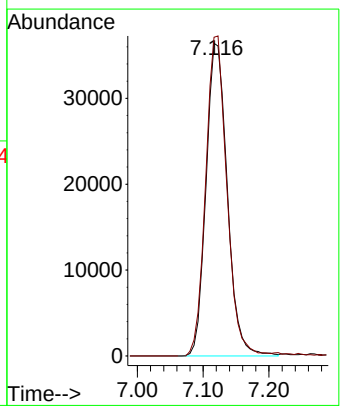


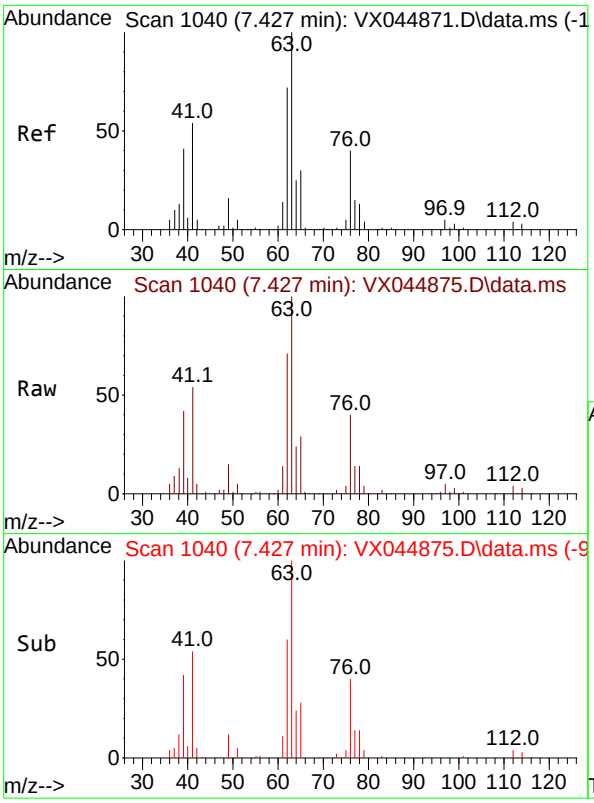


#44
Trichloroethene
Concen: 49.917 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:130 Resp: 81911

Ion	Ratio	Lower	Upper
130	100		
95	102.0	0.0	202.4



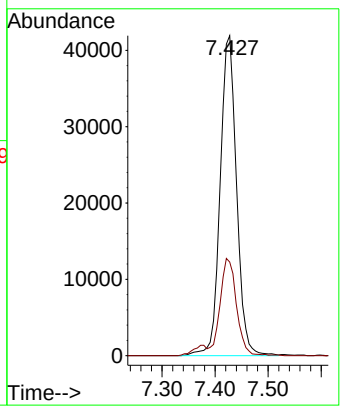


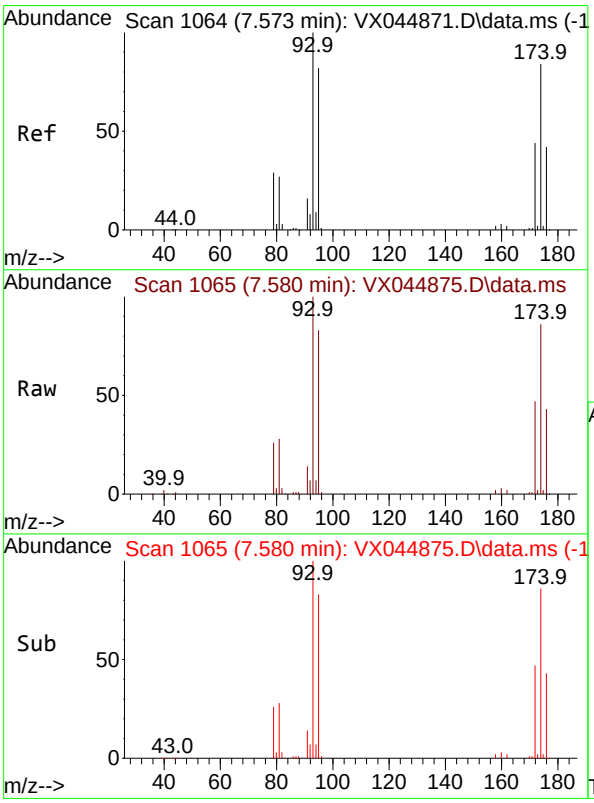
#45
1,2-Dichloropropane
Concen: 50.387 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 63 Resp: 89992

Ion	Ratio	Lower	Upper
63	100		
65	29.3	24.2	36.4

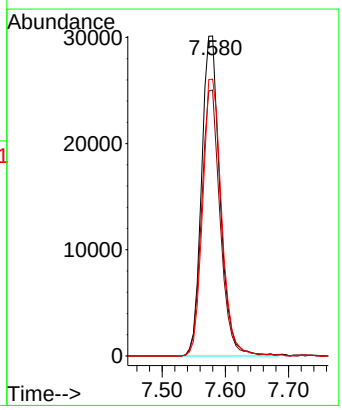


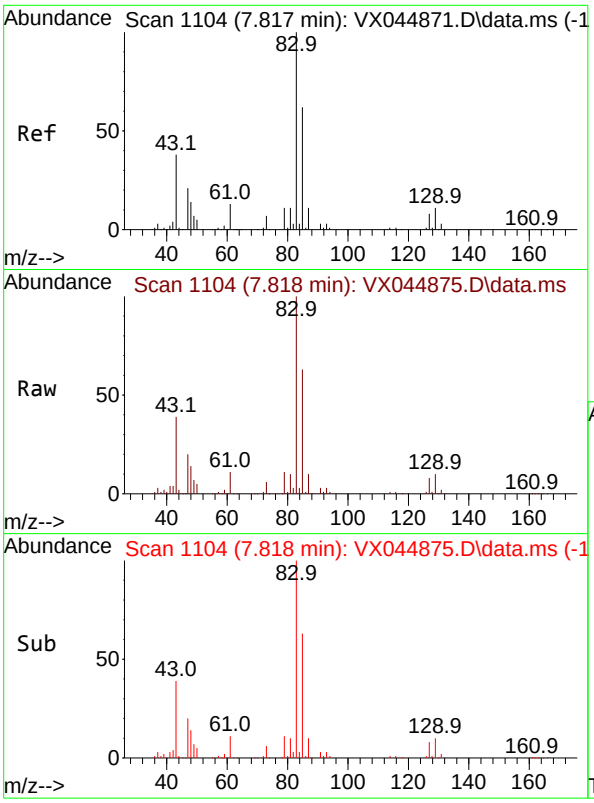


#46
Dibromomethane
Concen: 49.540 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 93 Resp: 61360

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.2	99.4
174	88.6	69.9	104.9



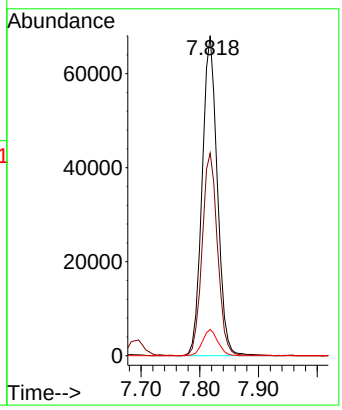


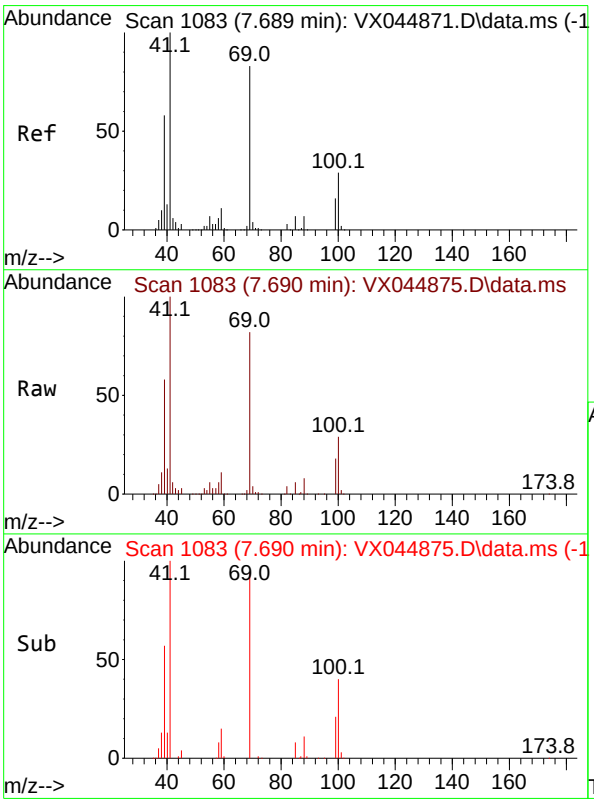
#47
Bromodichloromethane
Concen: 50.980 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 83 Resp: 122265

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.0	75.0
127	8.2	6.4	9.6

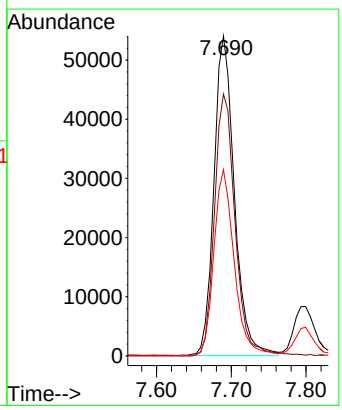


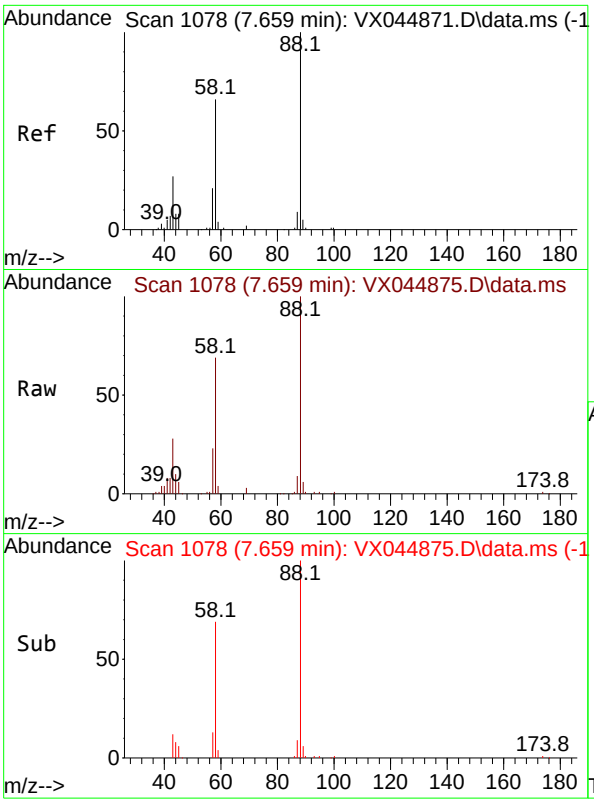


#48
Methyl methacrylate
Concen: 52.848 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 102900

Ion	Ratio	Lower	Upper
41	100		
69	83.2	65.8	98.8
39	57.8	46.4	69.6



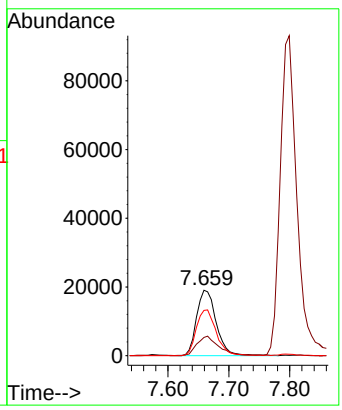


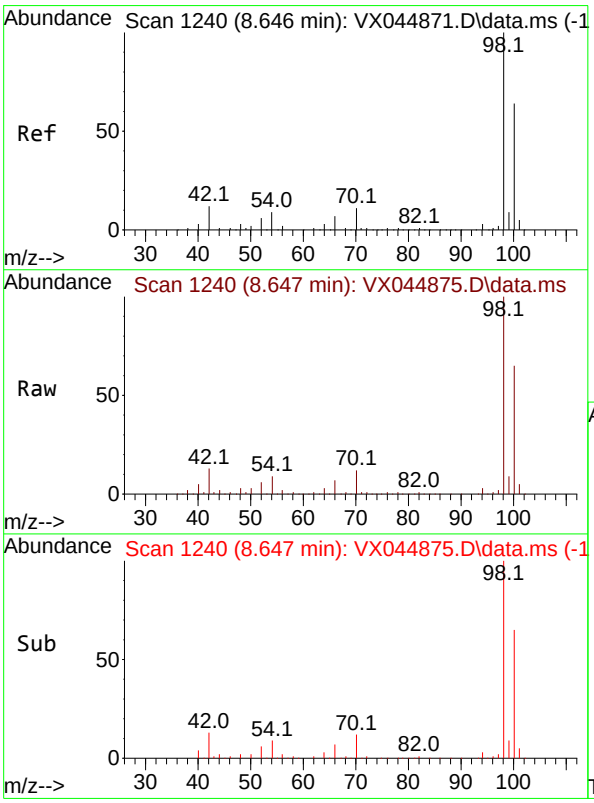
#49
1,4-Dioxane
Concen: 1021.138 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 88 Resp: 42658

Ion	Ratio	Lower	Upper
88	100		
43	32.2	26.6	39.8
58	71.2	55.9	83.9

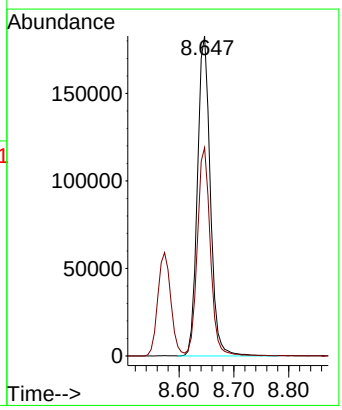


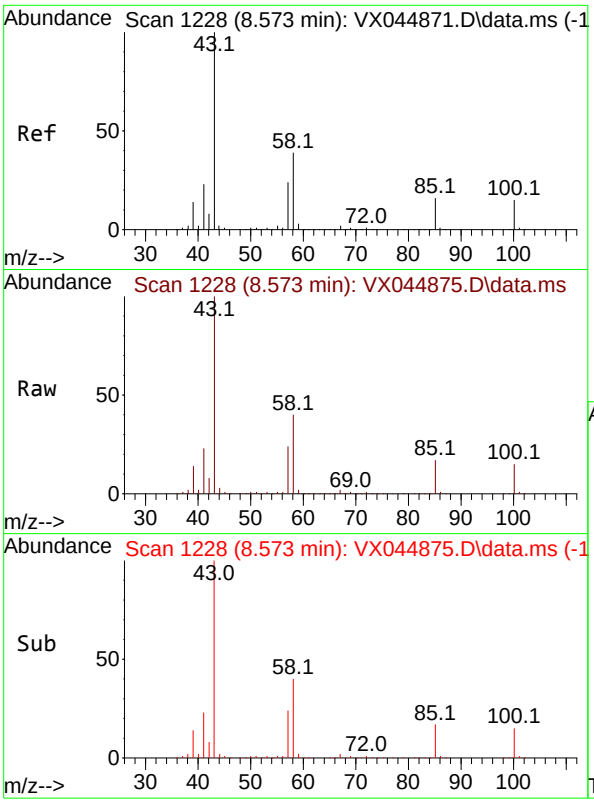


#50
Toluene-d8
Concen: 49.649 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 98 Resp: 299178

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1



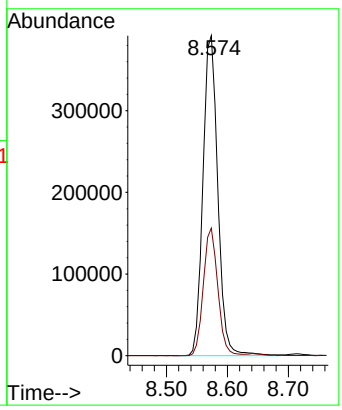


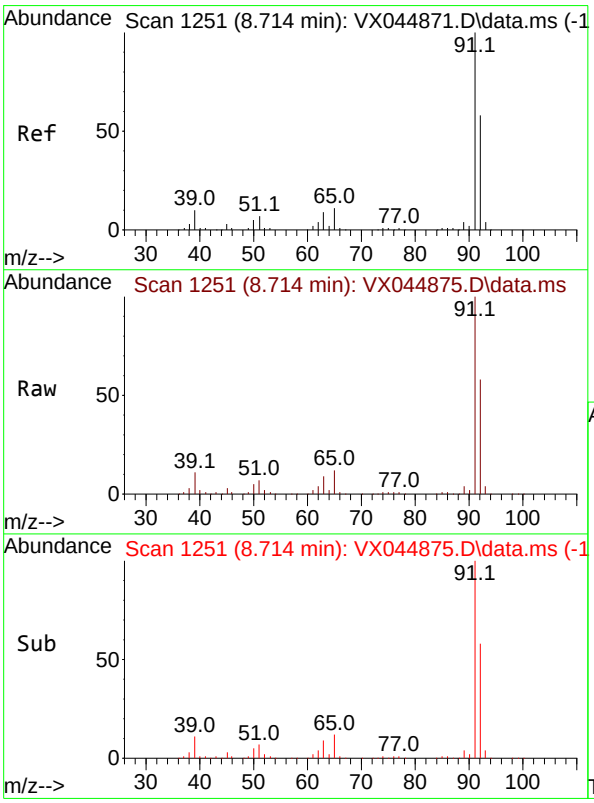
#51
4-Methyl-2-Pentanone
Concen: 265.112 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 665564

Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.8	46.2

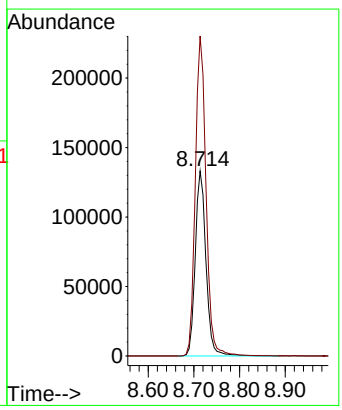


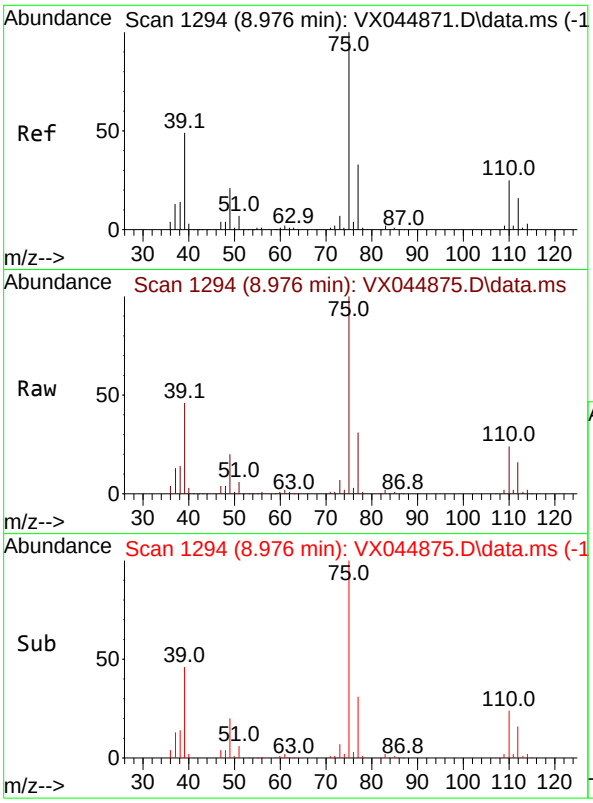


#52
Toluene
Concen: 50.680 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 92 Resp: 216682

Ion	Ratio	Lower	Upper
92	100		
91	173.4	137.4	206.2



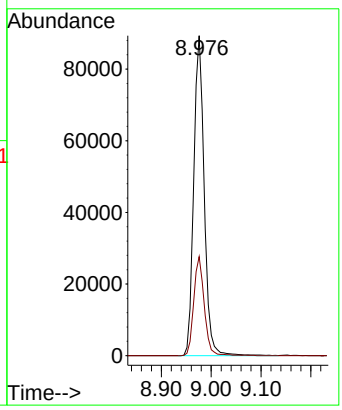


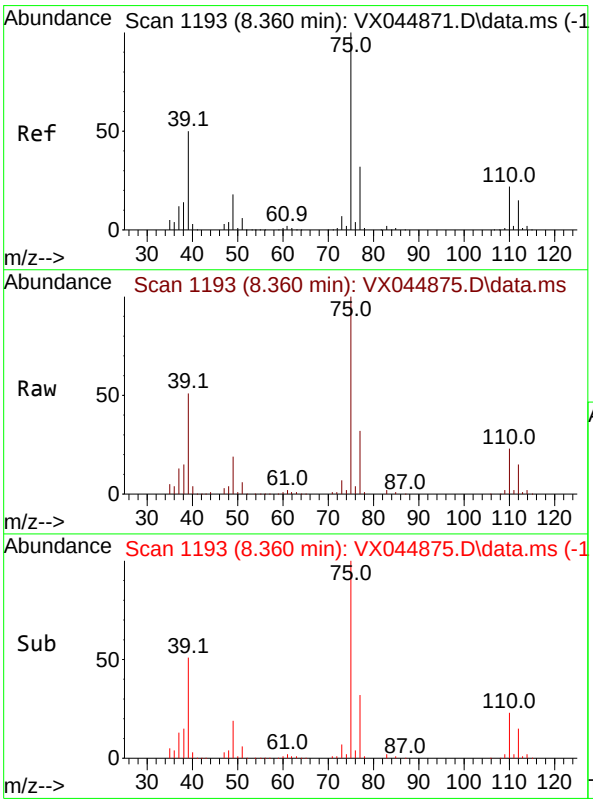
#53
t-1,3-Dichloropropene
Concen: 53.731 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 75 Resp: 130405

Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.0	39.0

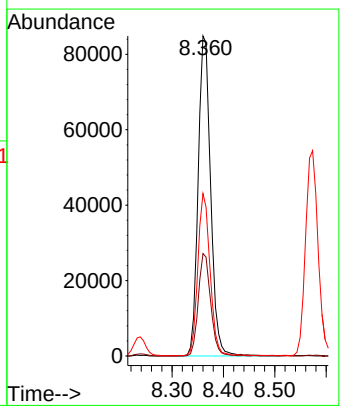


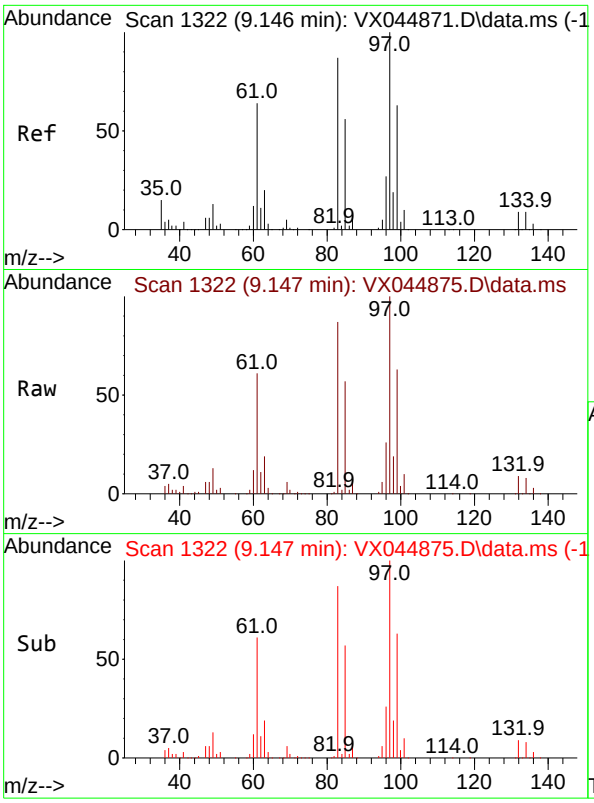


#54
cis-1,3-Dichloropropene
Concen: 52.986 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 143379

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.3	37.9
39	50.6	40.0	60.0



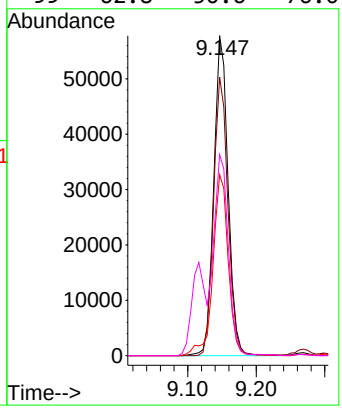


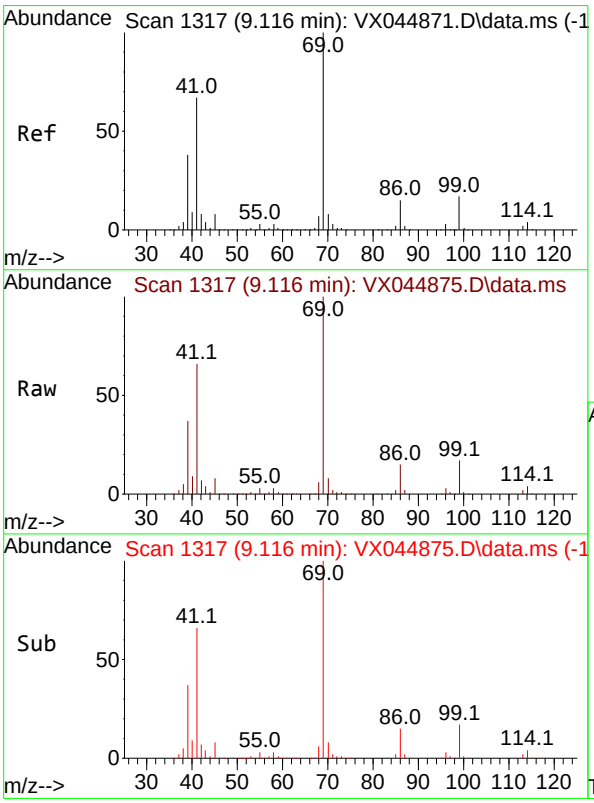
#55
1,1,2-Trichloroethane
Concen: 50.811 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 97 Resp: 83510

Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.8	104.6
85	56.6	44.8	67.2
99	62.8	50.6	76.0

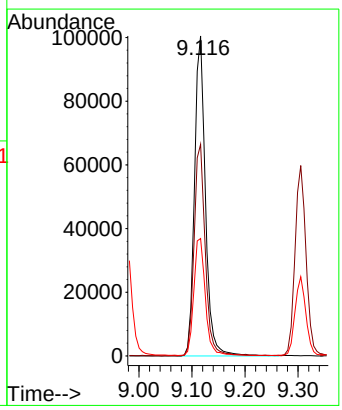


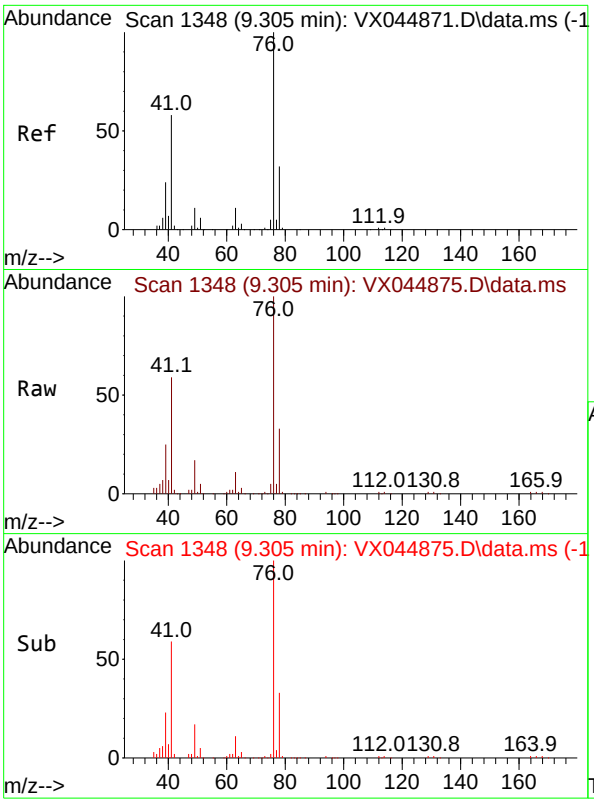


#56
Ethyl methacrylate
Concen: 54.068 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 69 Resp: 143524

Ion	Ratio	Lower	Upper
69	100		
41	67.8	55.2	82.8
39	38.4	30.8	46.2



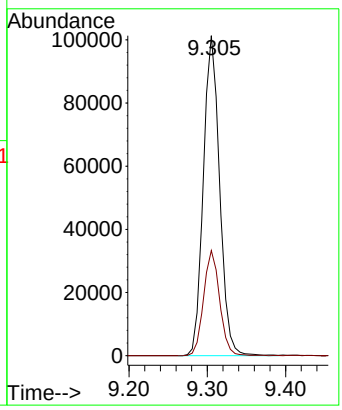


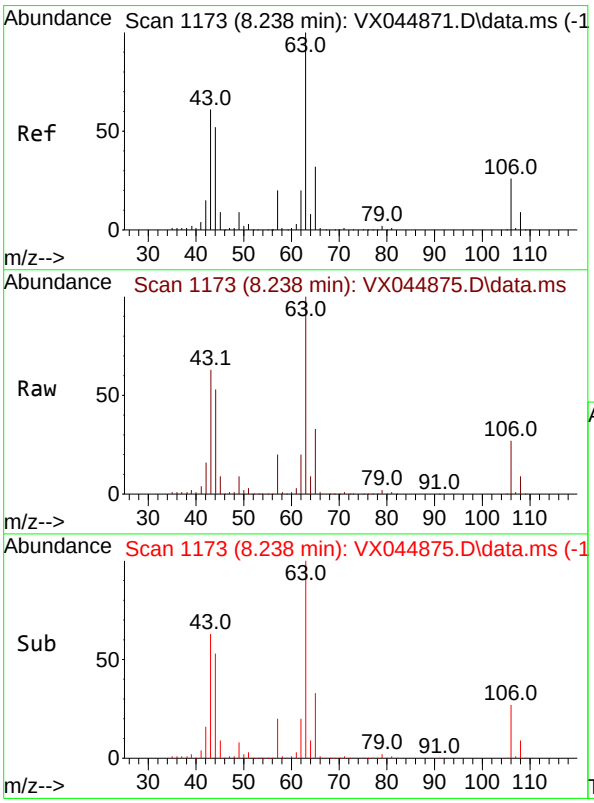
#57
1,3-Dichloropropane
Concen: 50.852 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 76 Resp: 146236

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

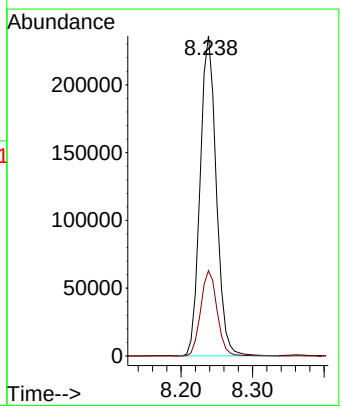


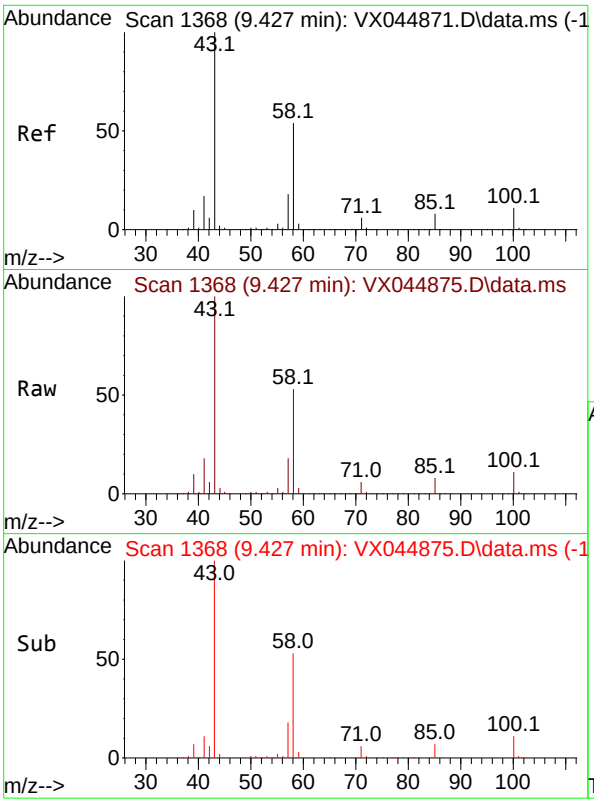


#58
2-Chloroethyl Vinyl ether
Concen: 284.352 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 370622

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.3	31.9



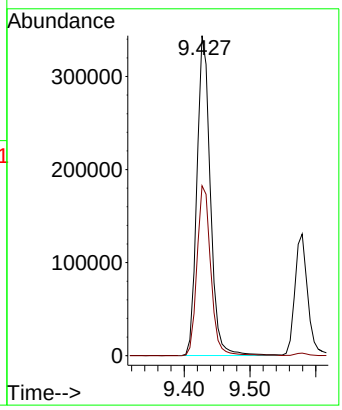


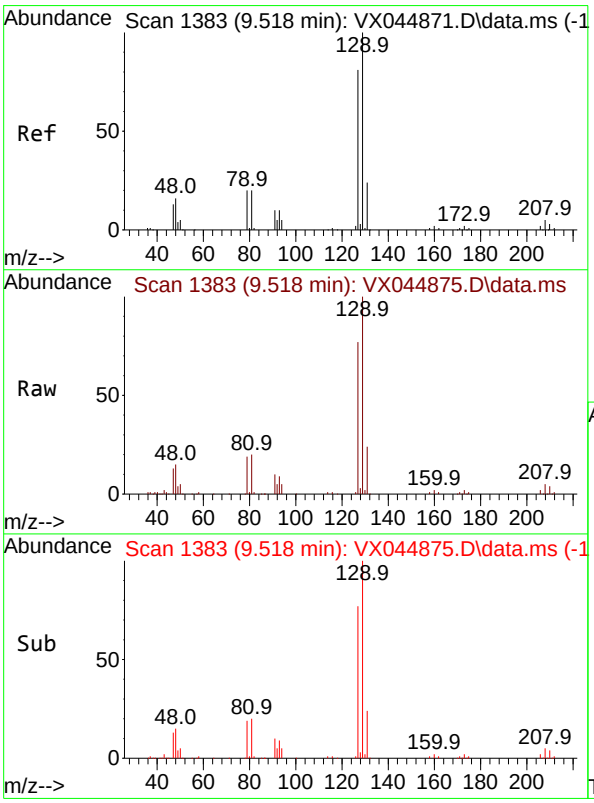
#59
2-Hexanone
Concen: 269.951 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 488298

Ion	Ratio	Lower	Upper
43	100		
58	54.5	27.5	82.4

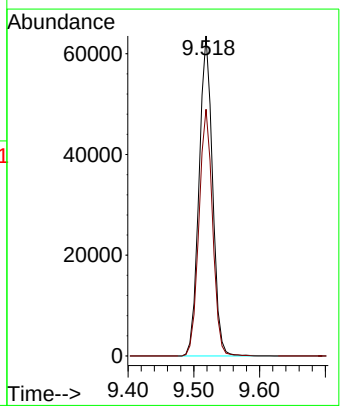


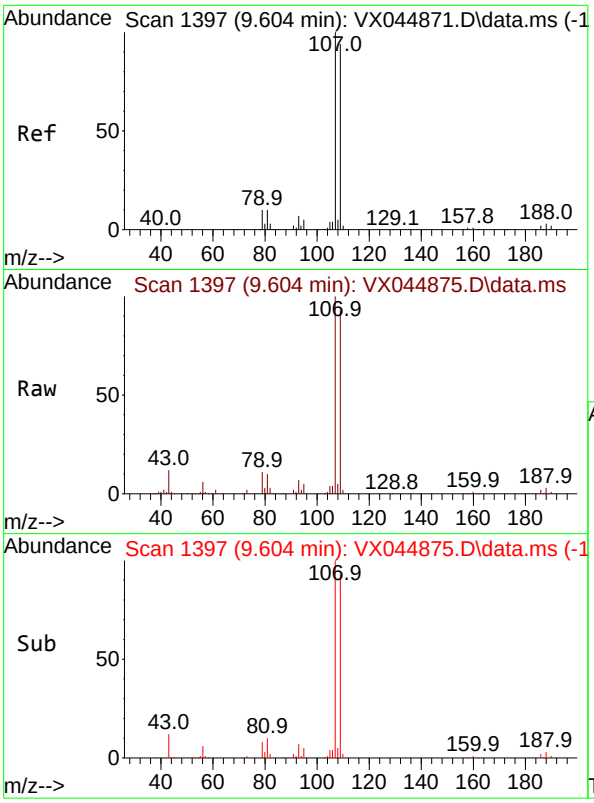


#60
Dibromochloromethane
Concen: 51.673 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:129 Resp: 90826

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.3



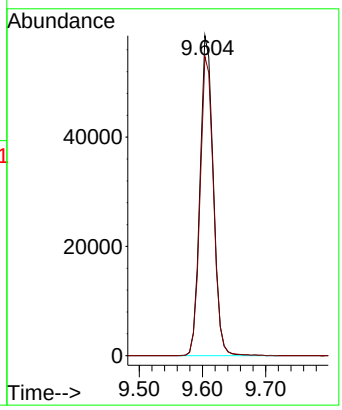


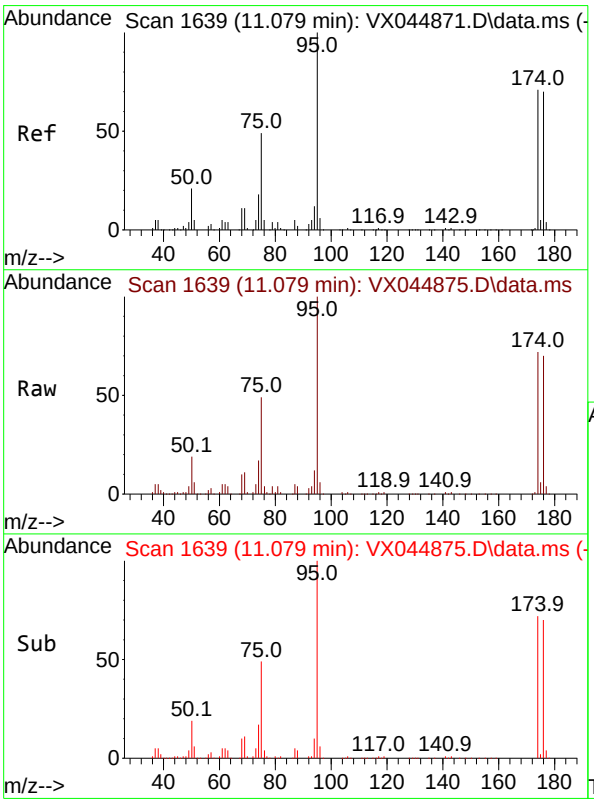
#61
1,2-Dibromoethane
Concen: 51.436 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:107 Resp: 85683

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9

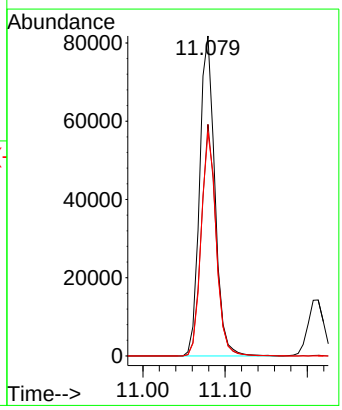


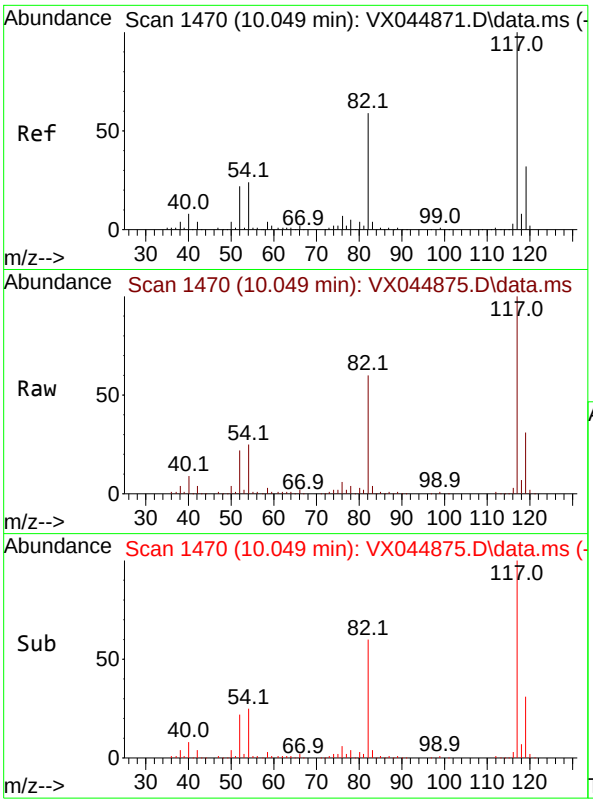


#62
4-Bromofluorobenzene
Concen: 51.786 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 95 Resp: 105201

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	142.6
176	68.9	0.0	141.6



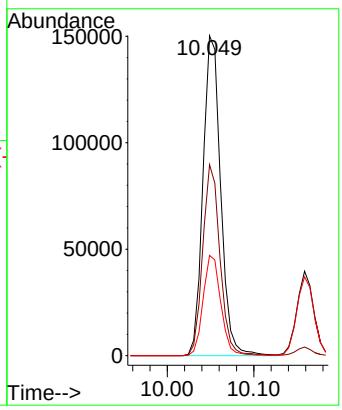


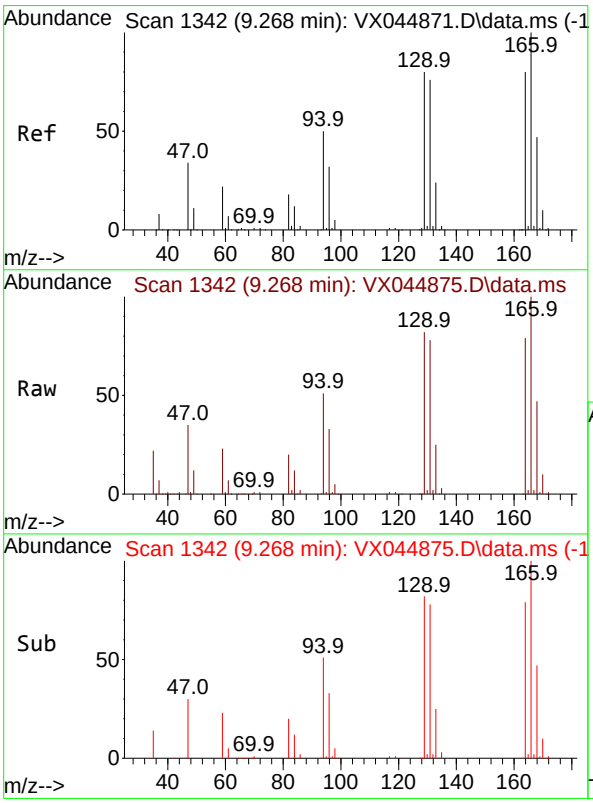
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:117 Resp: 213248

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.5	71.3
119	31.3	25.4	38.0

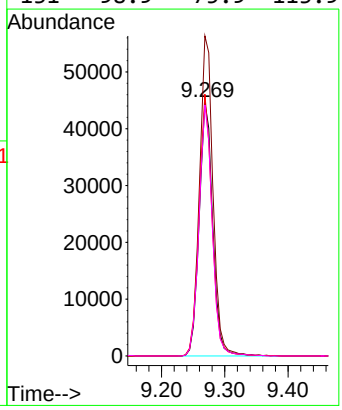


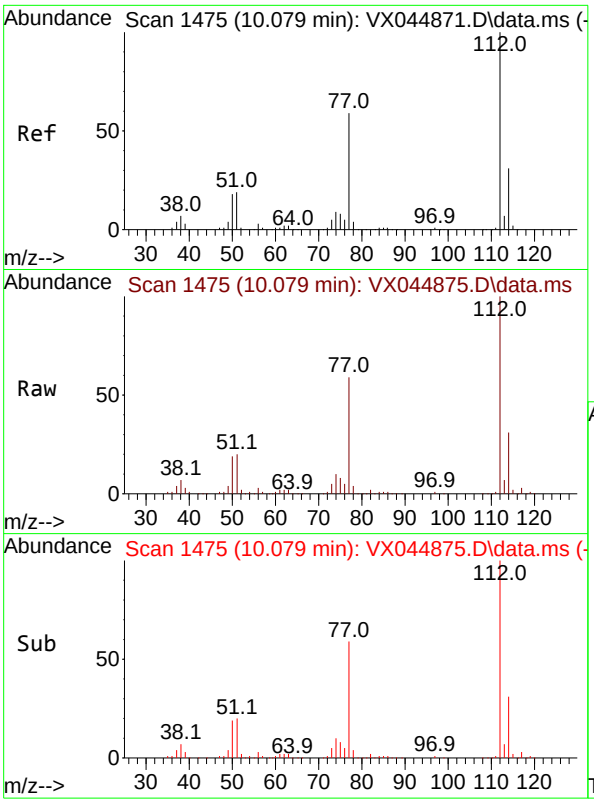


#64
Tetrachloroethene
Concen: 49.424 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:164 Resp: 66468

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.4	150.6
129	103.1	79.9	119.9
131	98.9	75.9	113.9



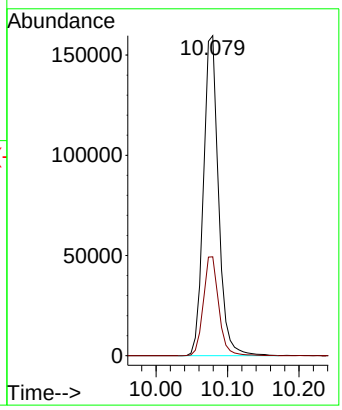


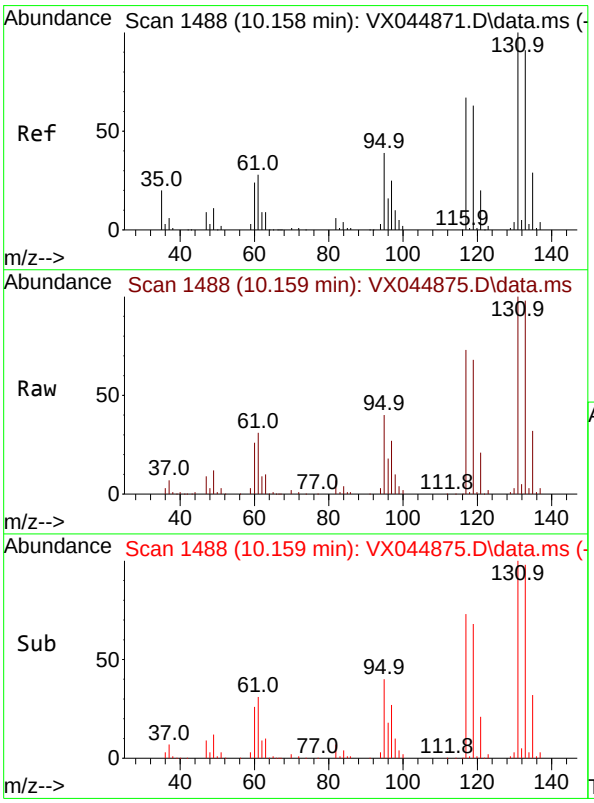
#65
Chlorobenzene
Concen: 50.952 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:112 Resp: 233373

Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.0	37.6

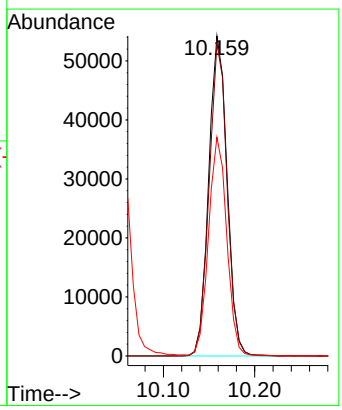


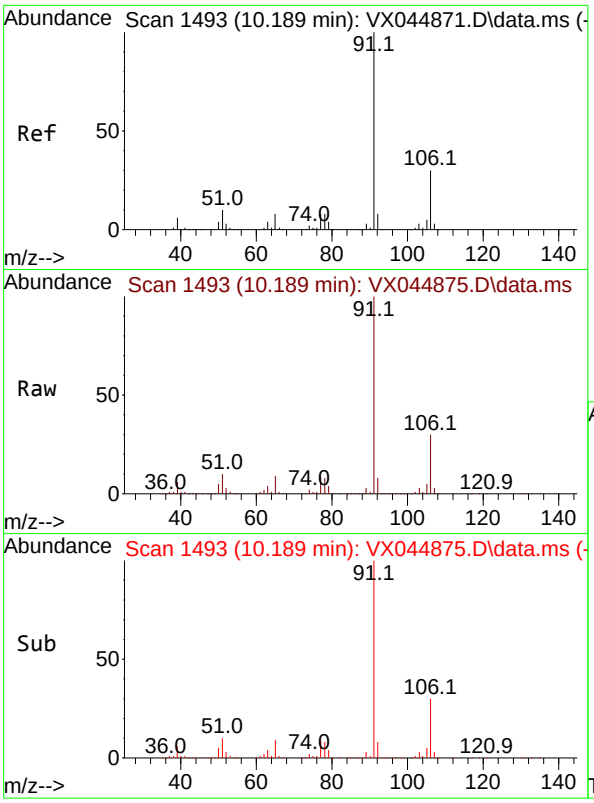


#66
1,1,1,2-Tetrachloroethane
Concen: 51.205 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:131 Resp: 75488

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.1	141.3
119	68.2	33.6	100.6



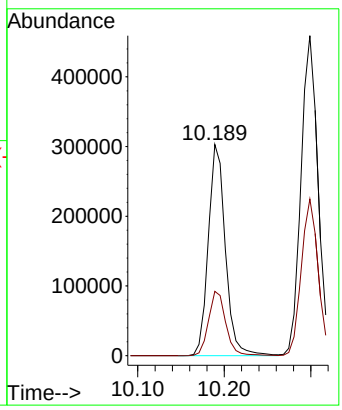


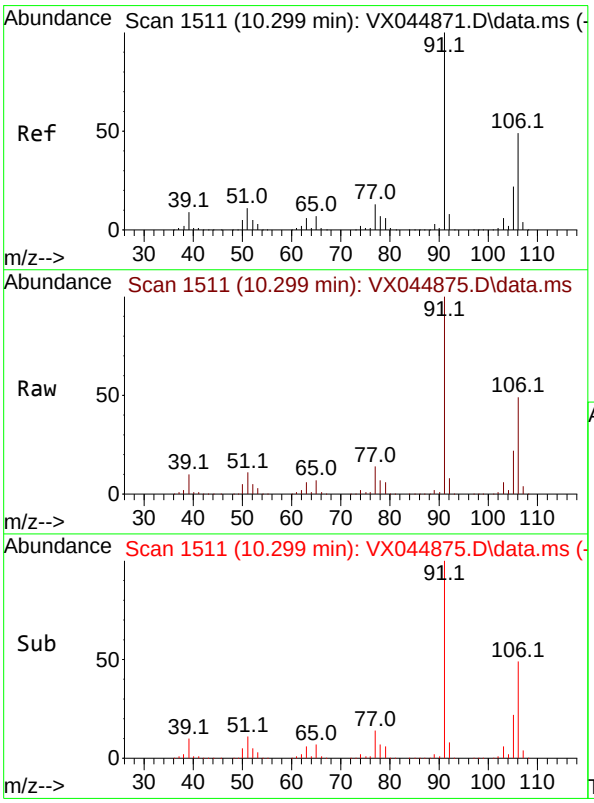
#67
Ethyl Benzene
Concen: 51.415 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 91 Resp: 415575

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.9	35.9

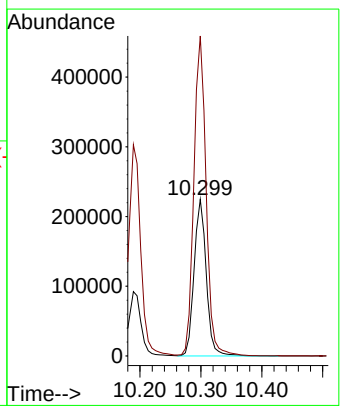


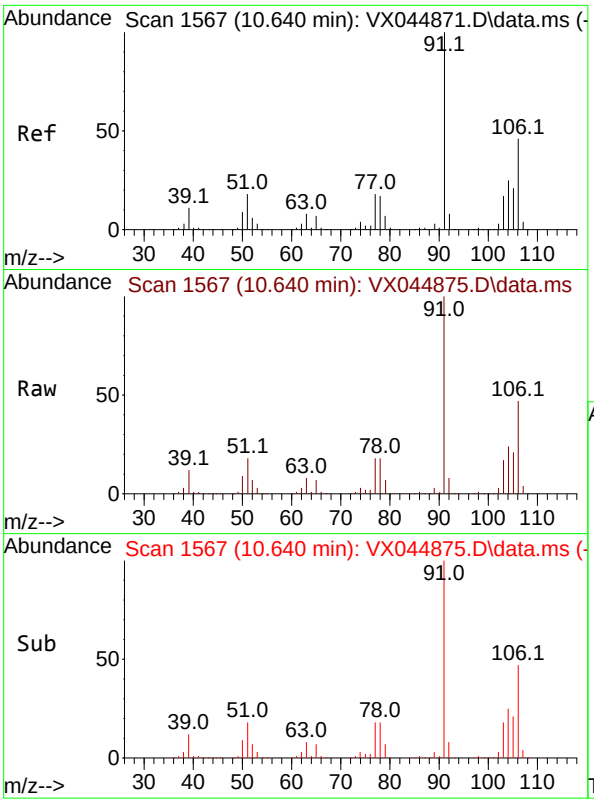


#68
m/p-Xylenes
Concen: 104.282 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:106 Resp: 310925

Ion	Ratio	Lower	Upper
106	100		
91	205.2	164.3	246.5



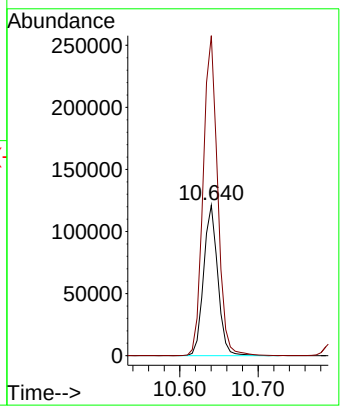


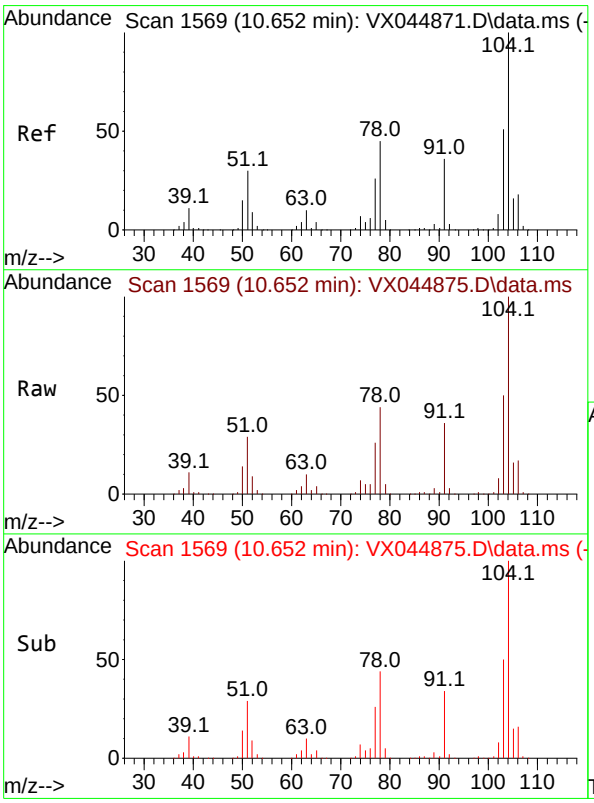
#69
o-Xylene
Concen: 50.804 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:106 Resp: 151995

Ion	Ratio	Lower	Upper
106	100		
91	217.1	108.5	325.5

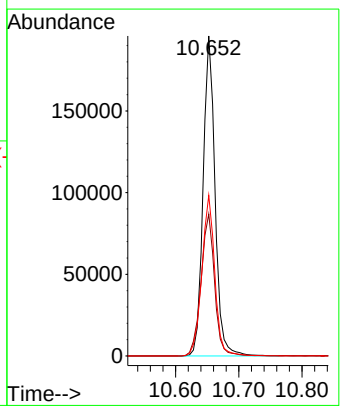


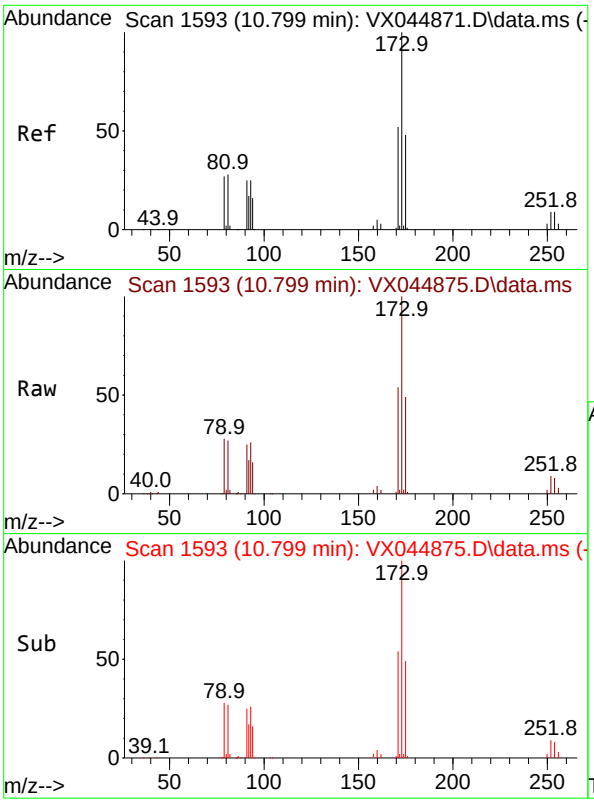


#70
Styrene
Concen: 53.521 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:104 Resp: 257972

Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.5	60.7
103	54.5	43.6	65.4



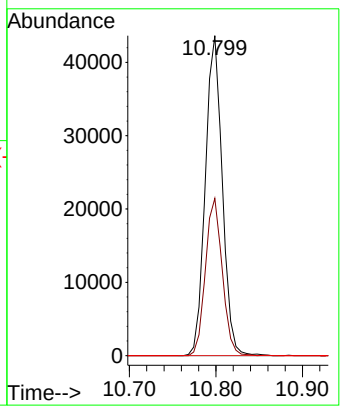


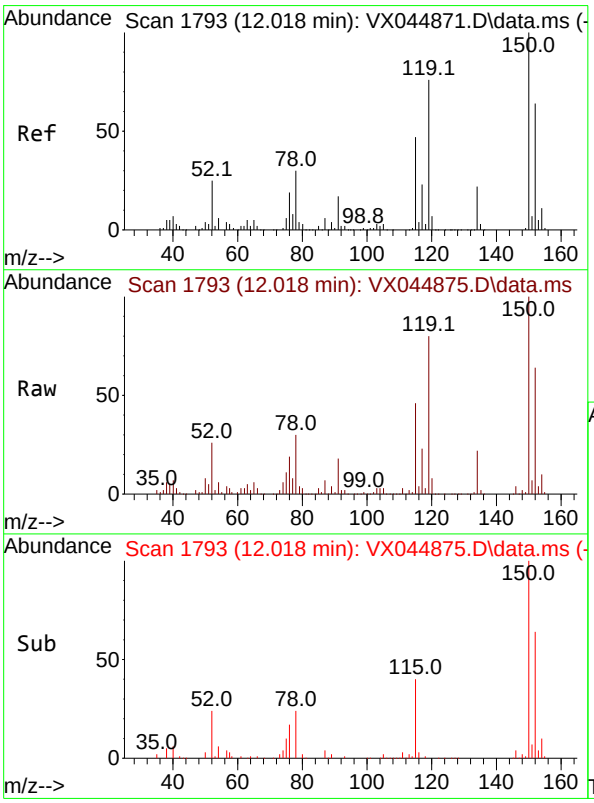
#71
Bromoform
Concen: 53.997 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:173 Resp: 59409

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	72.8
254	0.0	0.0	0.0

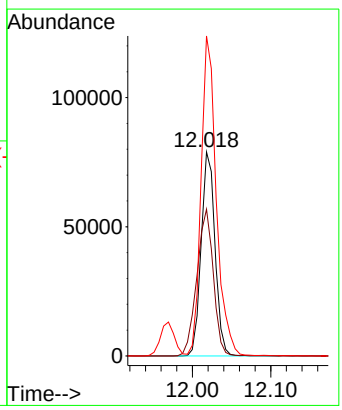


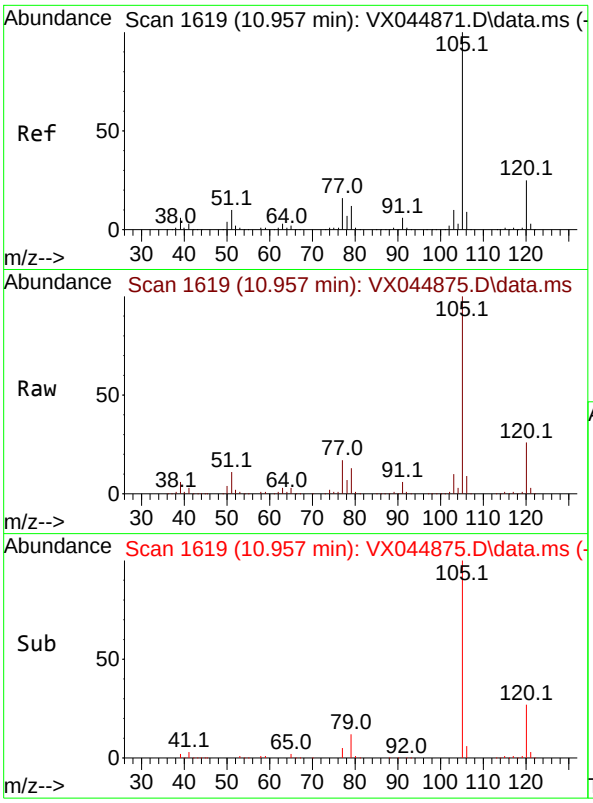


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:152 Resp: 97087

Ion	Ratio	Lower	Upper
152	100		
115	85.5	43.4	130.1
150	171.8	0.0	350.4



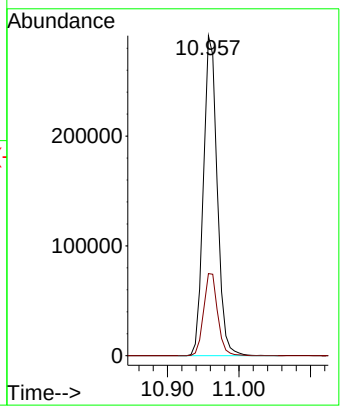


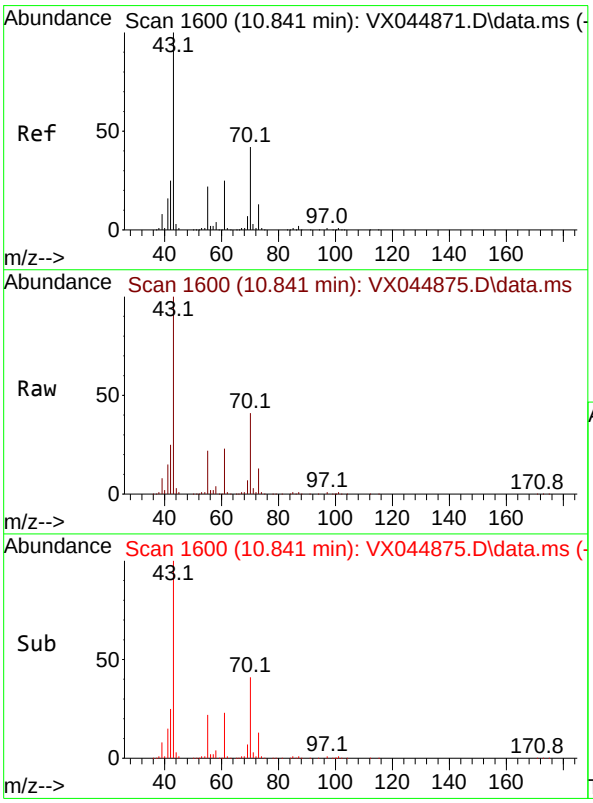
#73
Isopropylbenzene
Concen: 49.921 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:105 Resp: 390246

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.5

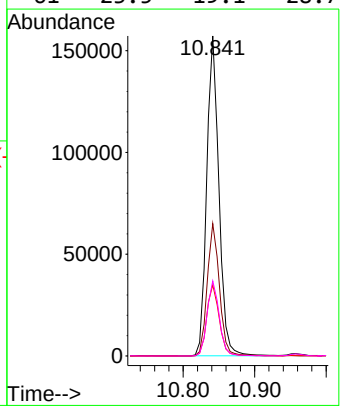


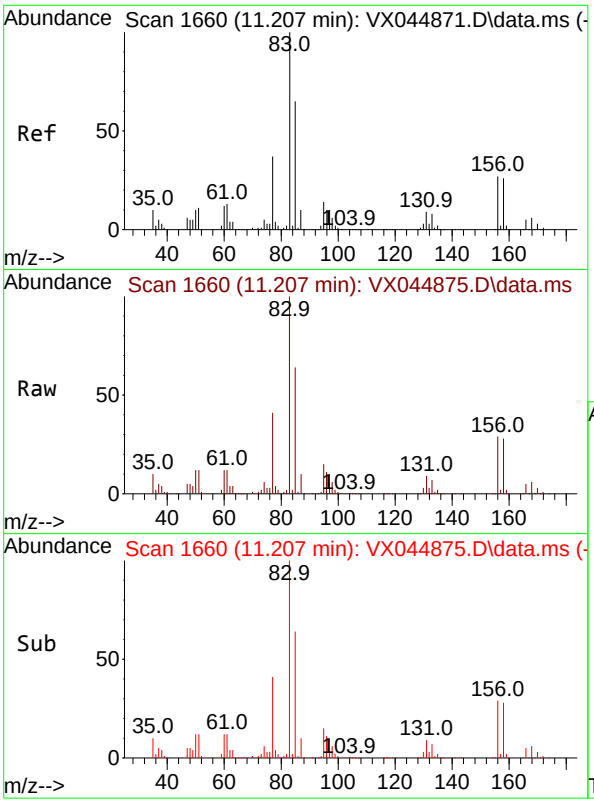


#74
N-amyl acetate
Concen: 52.621 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 186145

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.7	50.5
55	22.8	18.6	27.8
61	23.5	19.1	28.7



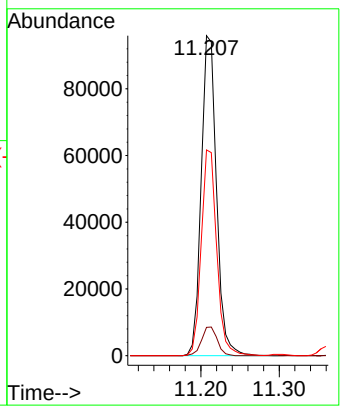


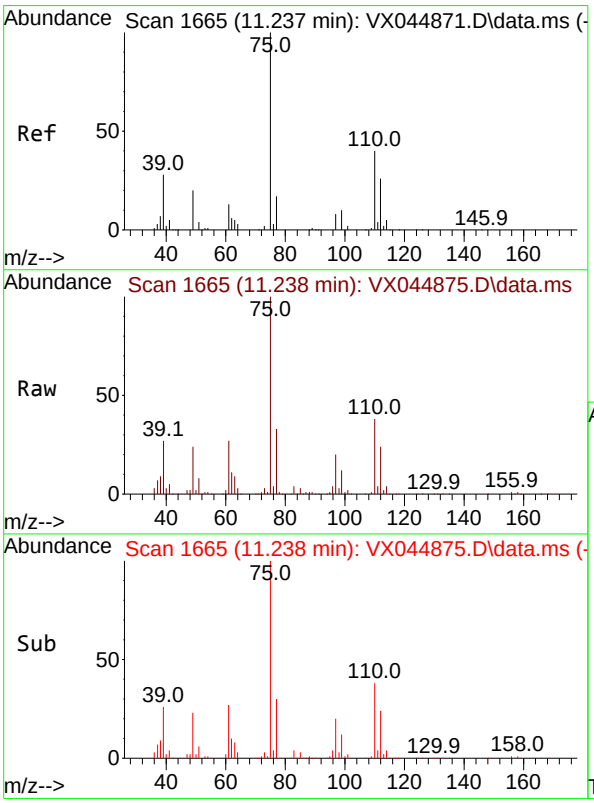
#75
1,1,2,2-Tetrachloroethane
Concen: 48.331 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 83 Resp: 129829

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.5
85	65.1	32.3	96.8

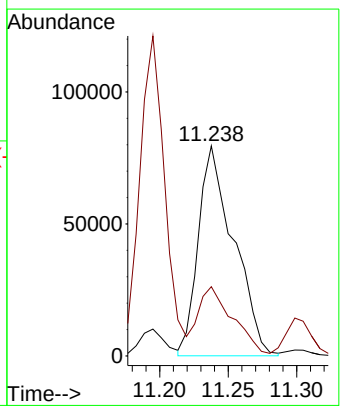


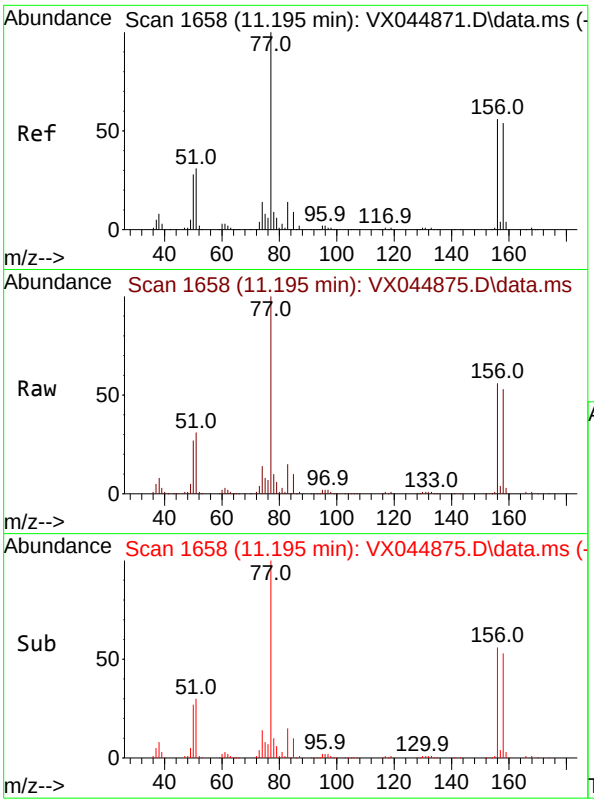


#76
1,2,3-Trichloropropane
Concen: 66.510 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 143167

Ion	Ratio	Lower	Upper
75	100		
77	32.6	21.9	65.7



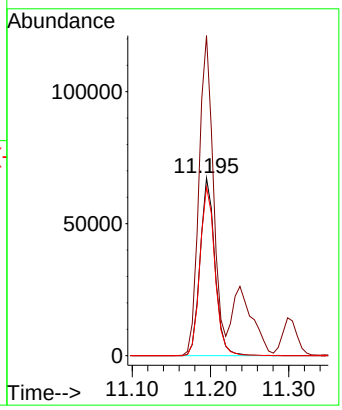


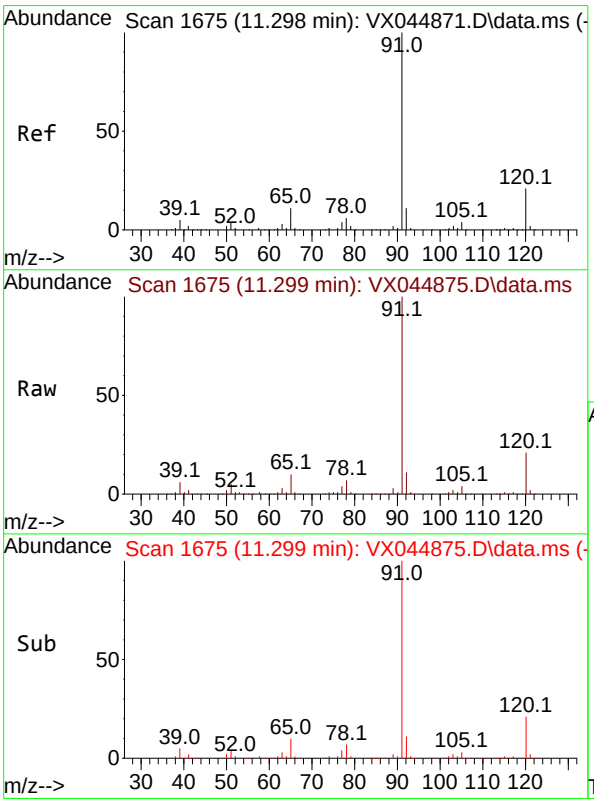
#77
Bromobenzene
Concen: 49.725 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:156 Resp: 88129

Ion	Ratio	Lower	Upper
156	100		
77	176.3	88.4	265.3
158	96.7	48.4	145.2

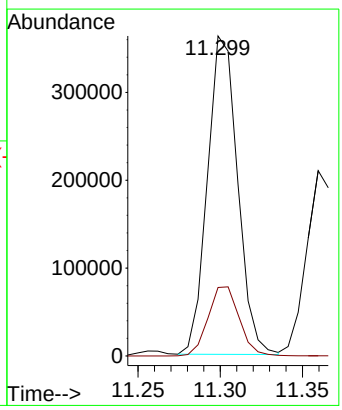


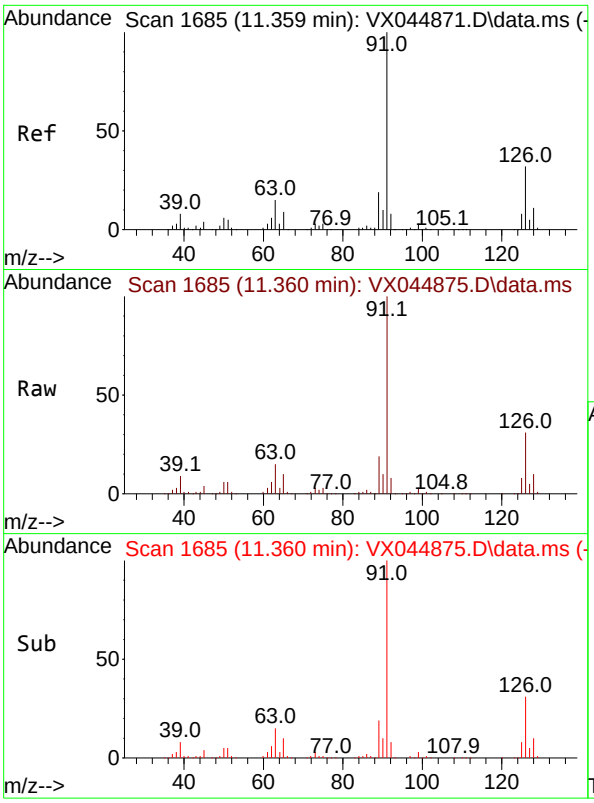


#78
n-propylbenzene
Concen: 51.386 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 463655

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3



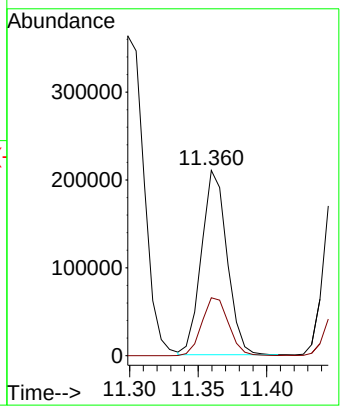


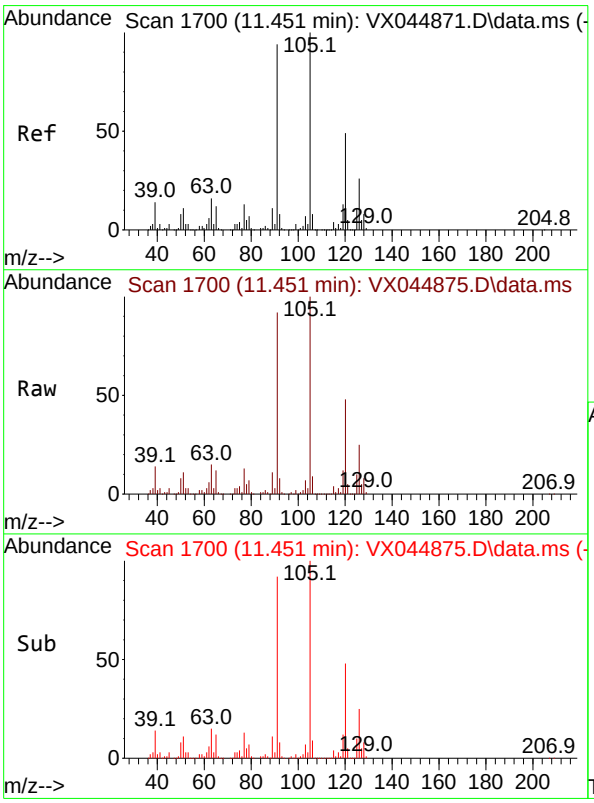
#79
2-Chlorotoluene
Concen: 49.065 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 91 Resp: 272091

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.2	48.6

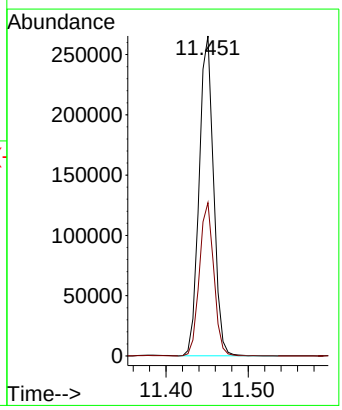


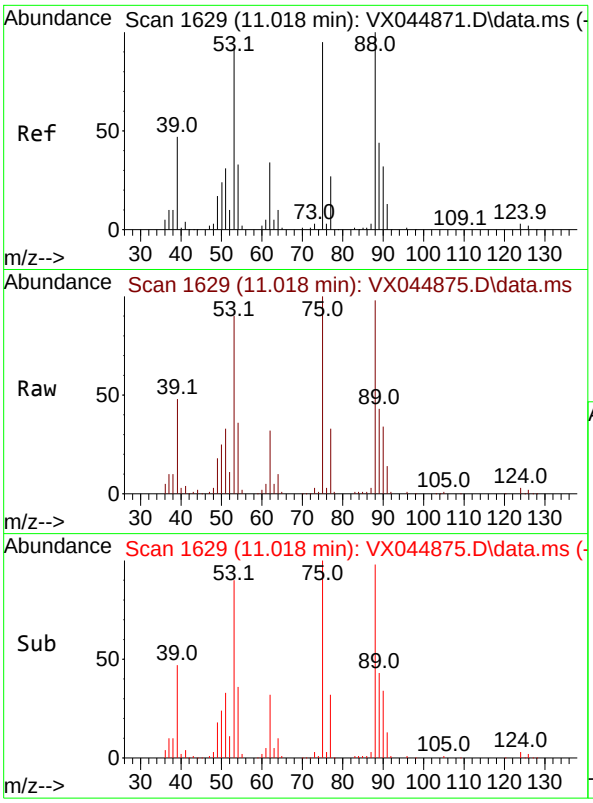


#80
1,3,5-Trimethylbenzene
Concen: 50.956 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 323251

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0



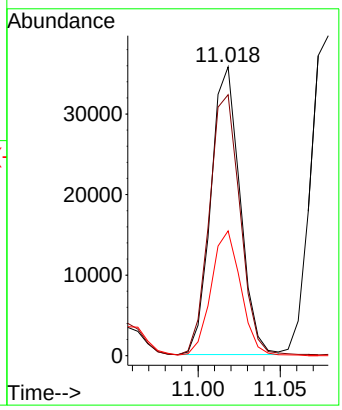


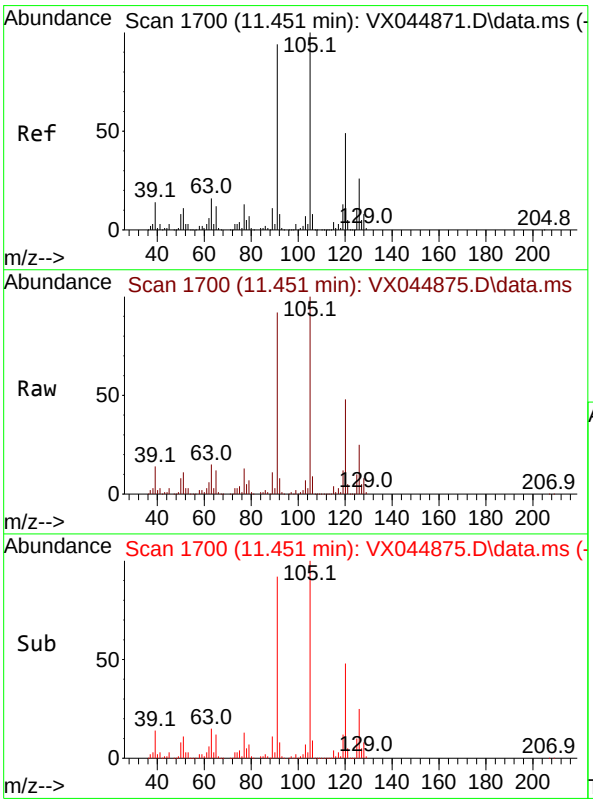
#81
trans-1,4-Dichloro-2-butene
Concen: 52.665 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 75 Resp: 44070

Ion	Ratio	Lower	Upper
75	100		
53	96.9	78.0	117.0
89	44.3	36.6	54.8

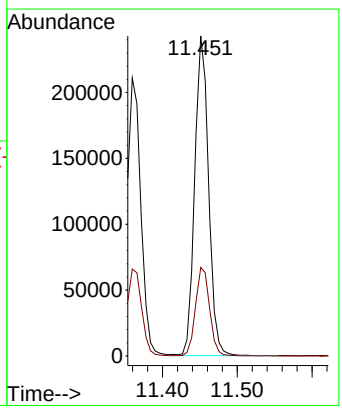


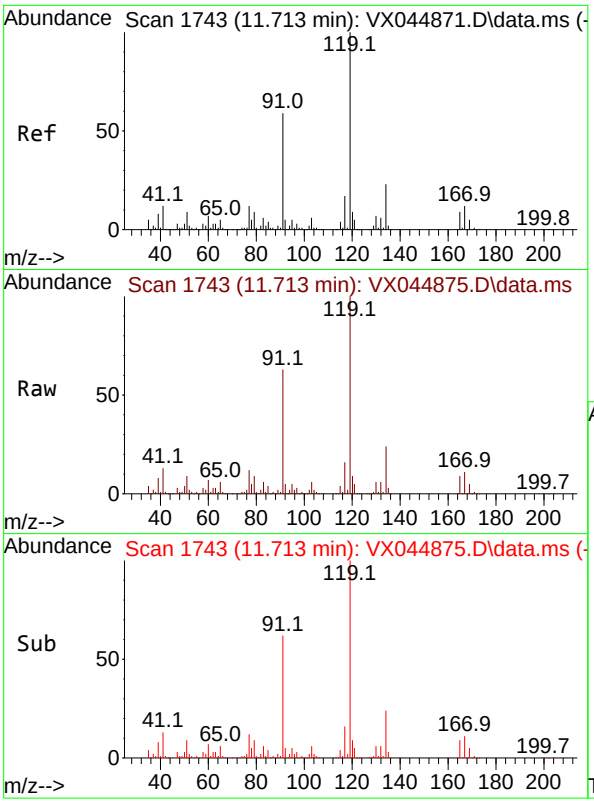


#82
4-Chlorotoluene
Concen: 50.872 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 312112

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.2	42.6



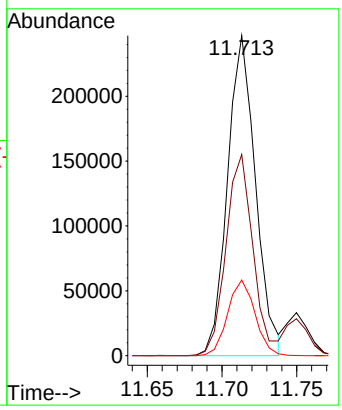


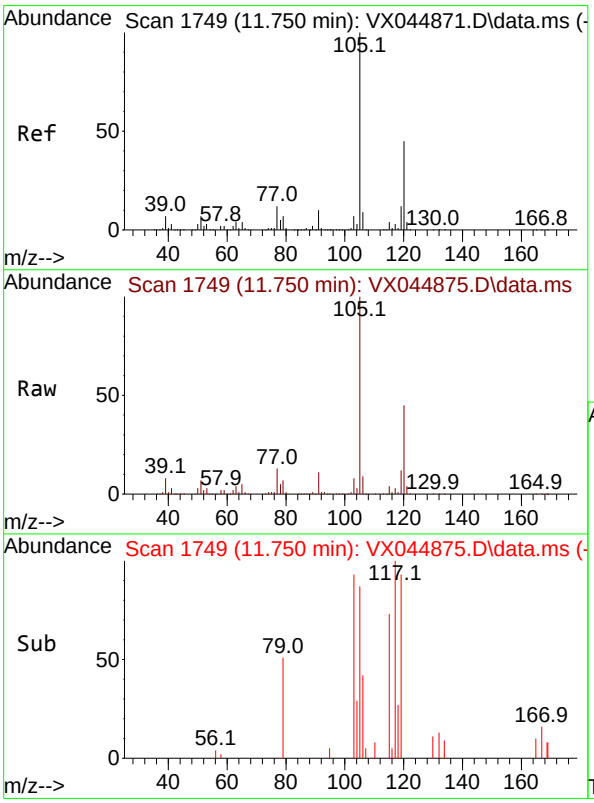
#83
tert-Butylbenzene
Concen: 50.139 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:119 Resp: 321772

Ion	Ratio	Lower	Upper
119	100		
91	60.7	29.1	87.4
134	23.0	11.5	34.5

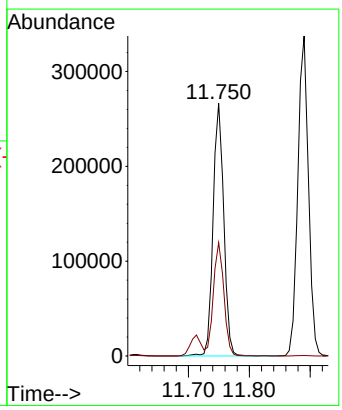


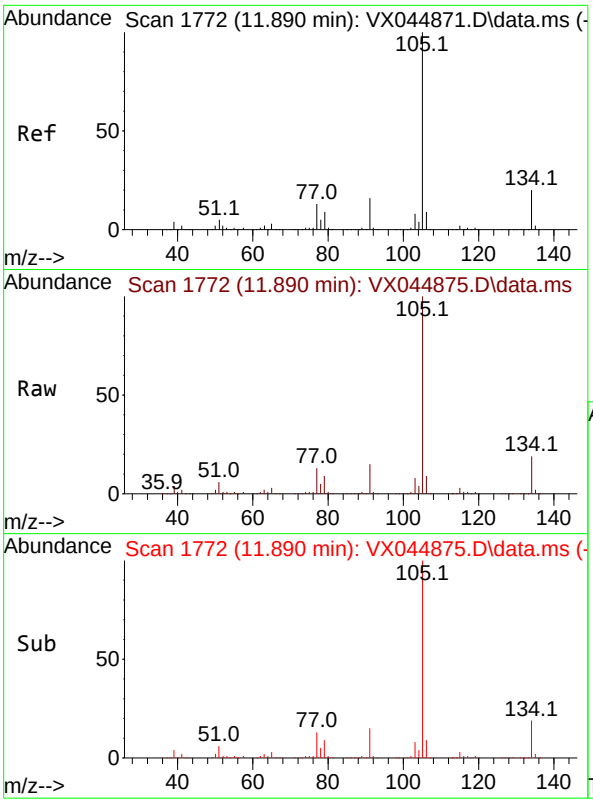


#84
1,2,4-Trimethylbenzene
Concen: 51.593 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 323035

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.4	67.0



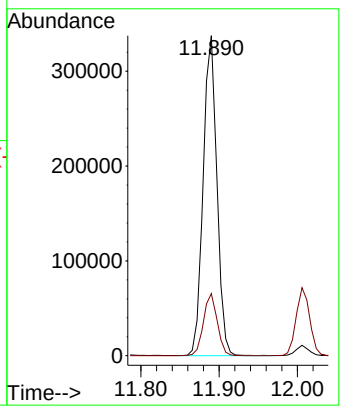


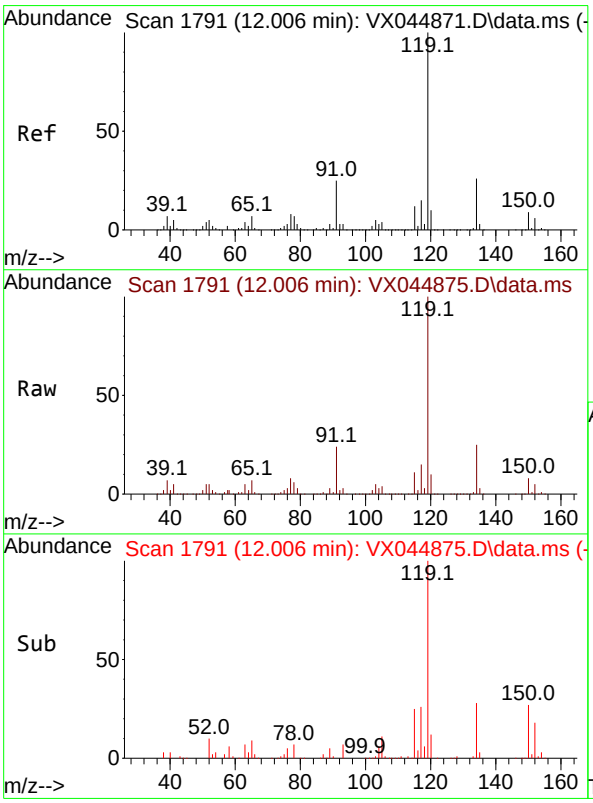
#85
sec-Butylbenzene
Concen: 51.617 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:105 Resp: 410197

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3

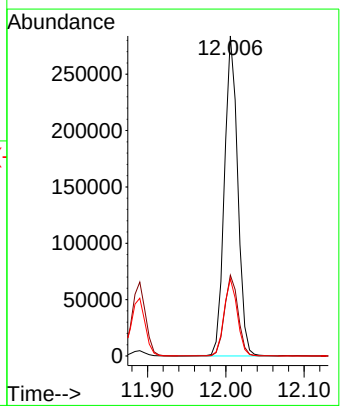


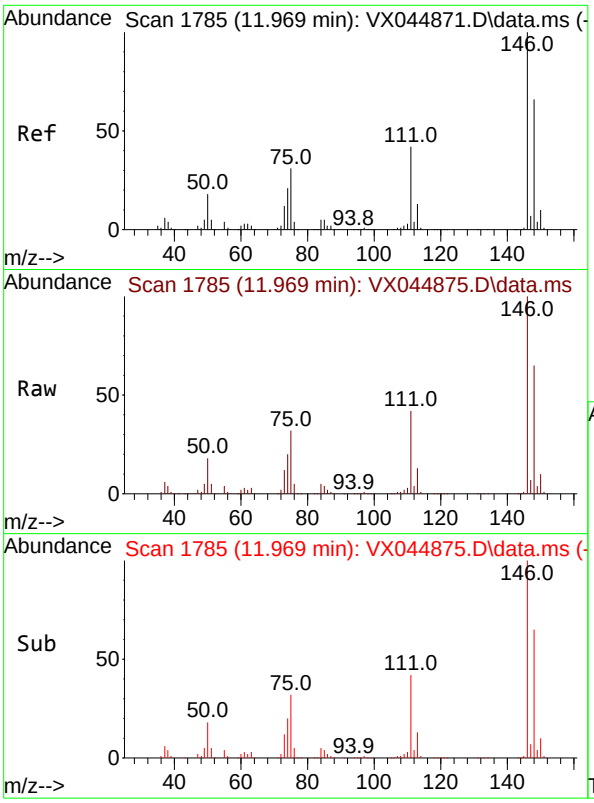


#86
p-Isopropyltoluene
Concen: 52.581 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:119 Resp: 336027

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.0	38.9
91	24.0	12.1	36.3



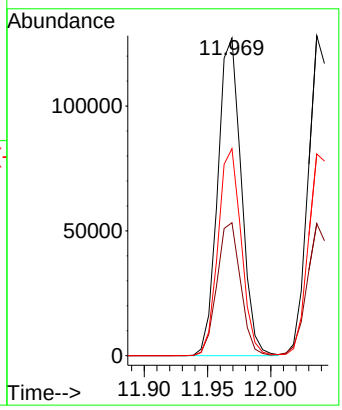


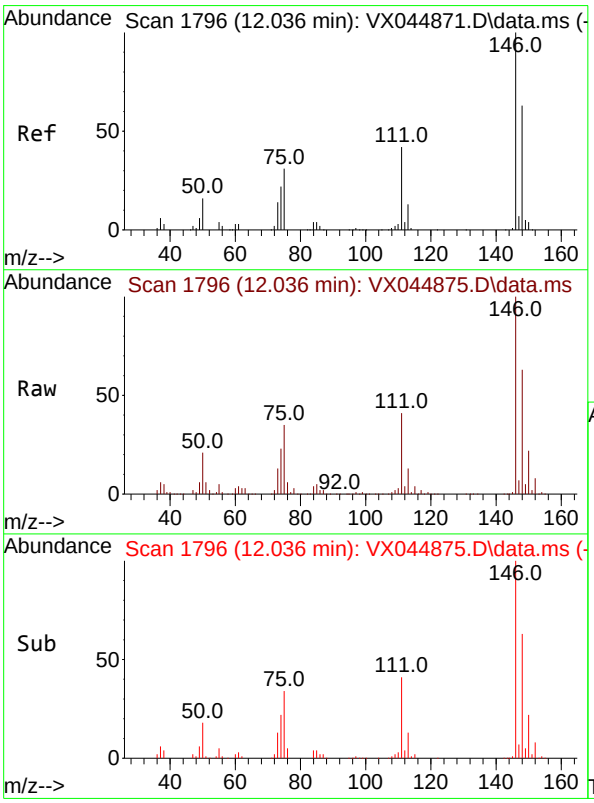
#87
1,3-Dichlorobenzene
Concen: 50.475 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:146 Resp: 164508

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	64.3	32.5	97.5

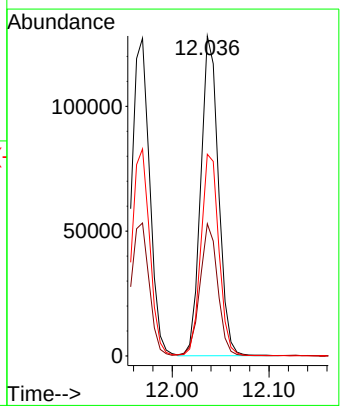


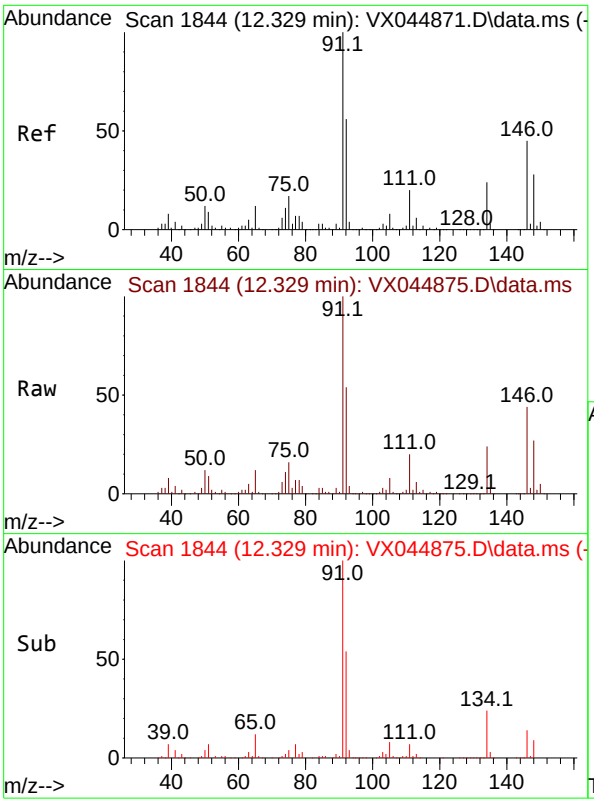


#88
1,4-Dichlorobenzene
Concen: 49.526 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:146 Resp: 163203

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.4	61.3
148	64.2	32.0	96.0



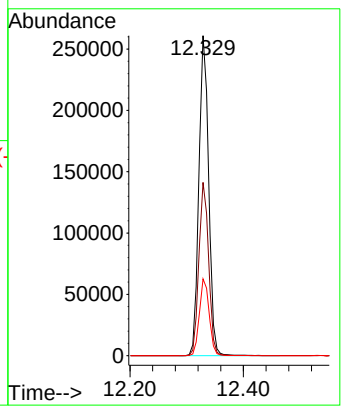


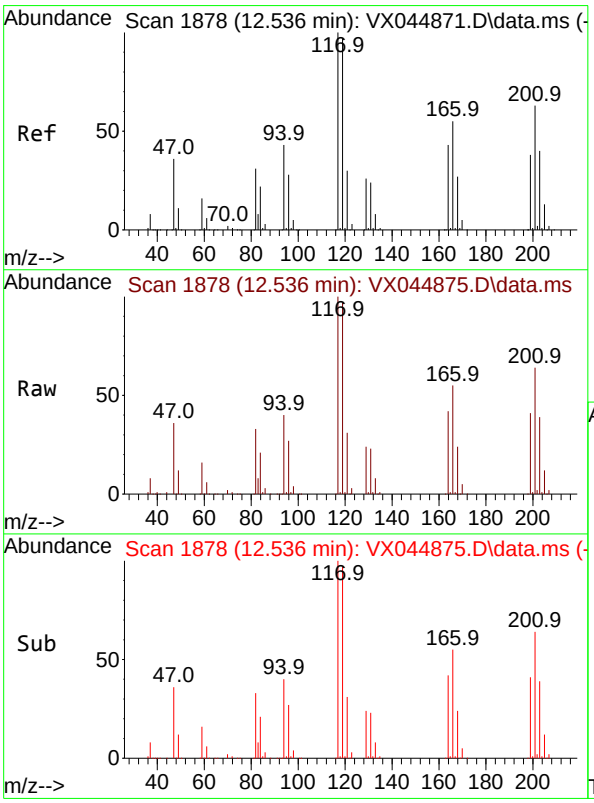
#89
n-Butylbenzene
Concen: 55.142 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 91 Resp: 311764

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.6
134	24.1	12.1	36.3

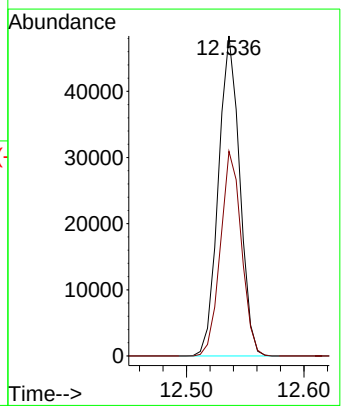


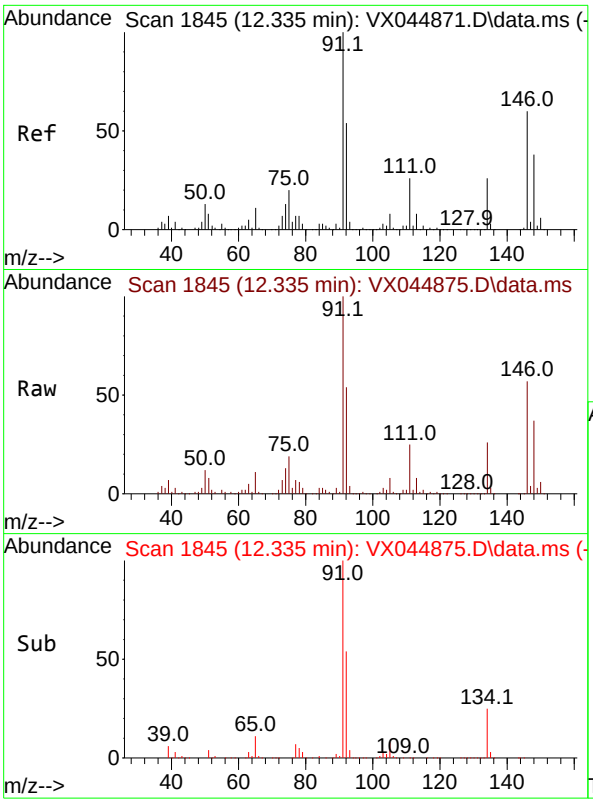


#90
Hexachloroethane
Concen: 50.990 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 61016

Ion	Ratio	Lower	Upper
117	100		
201	63.1	32.5	97.5



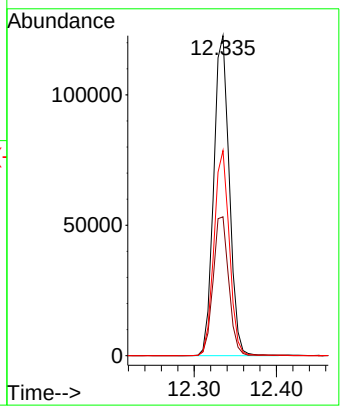


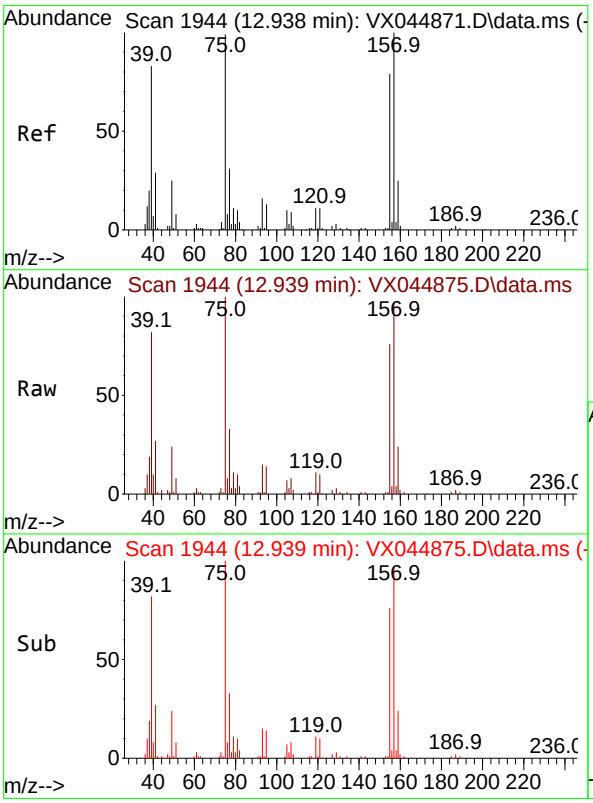
#91
1,2-Dichlorobenzene
Concen: 50.447 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:146 Resp: 161590

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.8	65.4
148	63.3	31.9	95.9

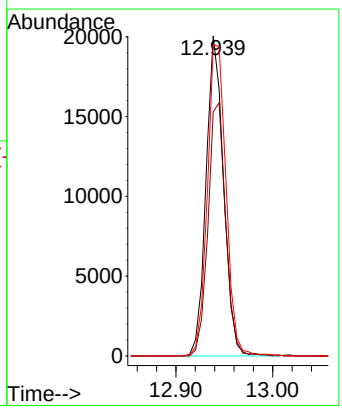


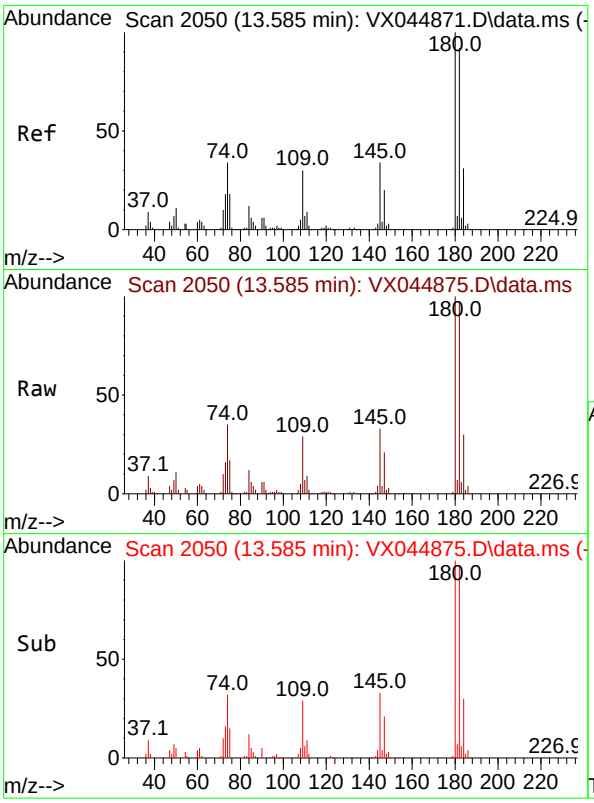


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.684 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 25339

Ion	Ratio	Lower	Upper
75	100		
155	79.5	40.5	121.4
157	103.5	51.4	154.3



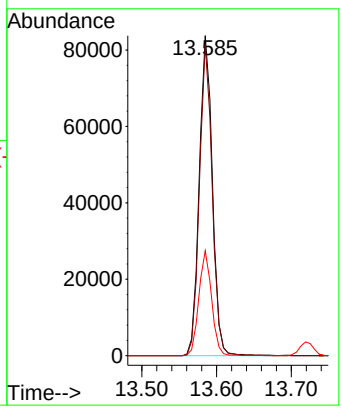


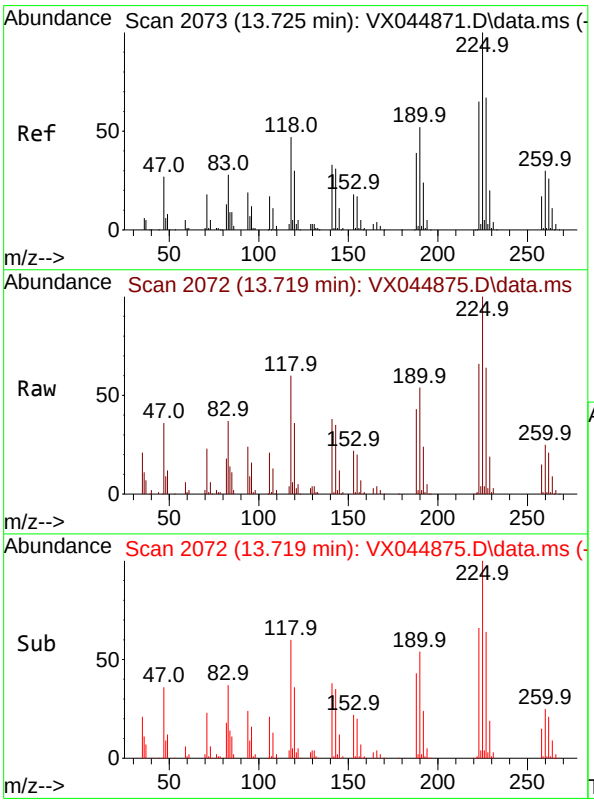
#93
1,2,4-Trichlorobenzene
Concen: 52.726 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:180 Resp: 102197

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.6	142.8
145	31.9	16.4	49.1

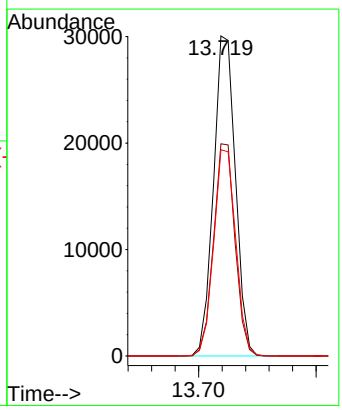


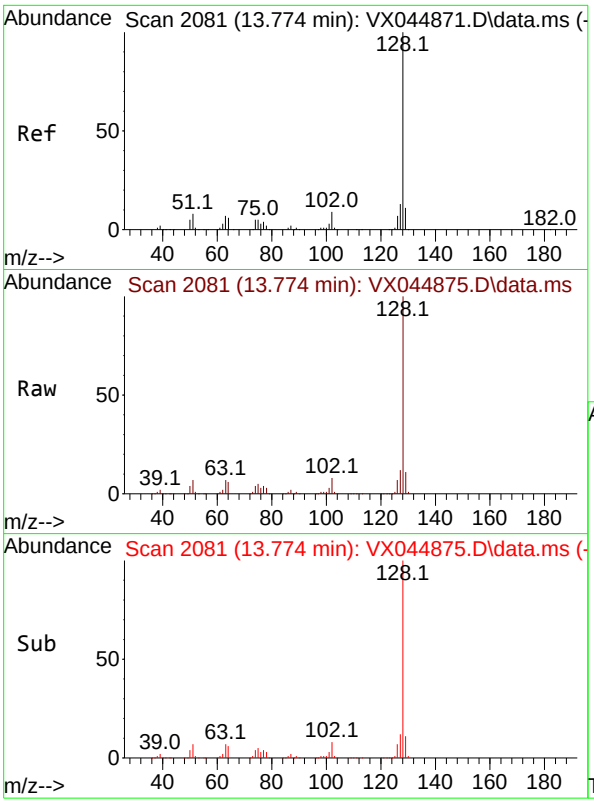


#94
Hexachlorobutadiene
Concen: 50.683 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:225 Resp: 38998

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.4	94.2
227	64.8	32.3	96.8



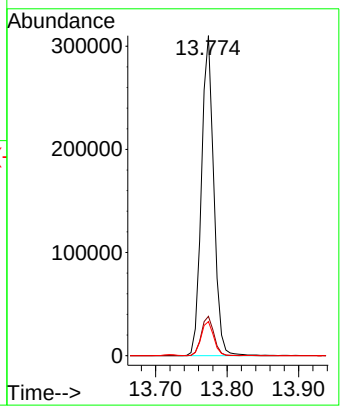


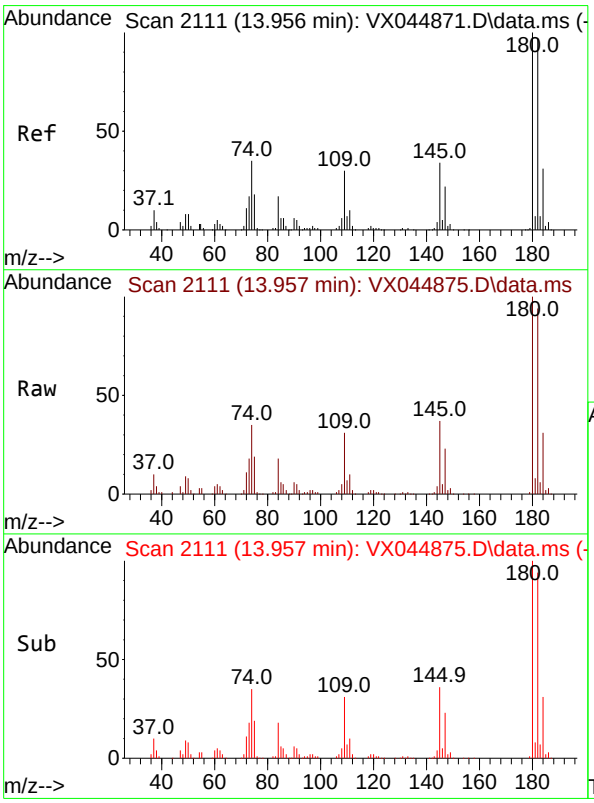
#95
Naphthalene
Concen: 53.033 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:128 Resp: 371576

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.9	8.9	13.3

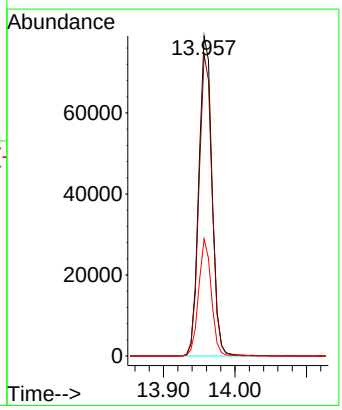




#96
1,2,3-Trichlorobenzene
Concen: 51.575 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:180 Resp: 100730

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.6
145	35.2	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	120105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	211946	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	185163	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84033	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	91954	52.302	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.600%			
35) Dibromofluoromethane	5.373	113	74881	54.340	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.680%			
50) Toluene-d8	8.641	98	278211	53.391	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.780%			
62) 4-Bromofluorobenzene	11.079	95	95016	54.089	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.180%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	86249	51.201	ug/l	100
3) Chloromethane	1.300	50	98529	48.058	ug/l	97
4) Vinyl Chloride	1.374	62	95759	48.212	ug/l	100
5) Bromomethane	1.593	94	30797	51.816	ug/l	98
6) Chloroethane	1.666	64	46742	64.424	ug/l	98
7) Trichlorofluoromethane	1.873	101	126873	50.511	ug/l	99
8) Diethyl Ether	2.130	74	45317	49.748	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	77108	50.809	ug/l	100
10) Methyl Iodide	2.447	142	100548	51.121	ug/l	99
11) Tert butyl alcohol	2.983	59	71926	220.523	ug/l	99
12) 1,1-Dichloroethene	2.312	96	73660	47.582	ug/l	97
13) Acrolein	2.233	56	82049	243.819	ug/l	97
14) Allyl chloride	2.654	41	134496	48.073	ug/l	97
15) Acrylonitrile	3.062	53	213802	245.512	ug/l	99
16) Acetone	2.379	43	175667	248.546	ug/l	98
17) Carbon Disulfide	2.501	76	196175	46.213	ug/l	100
18) Methyl Acetate	2.696	43	107526	48.211	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	239250	48.574	ug/l	98
20) Methylene Chloride	2.782	84	82539	47.678	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	72134	47.344	ug/l	89
22) Diisopropyl ether	3.751	45	261816	49.465	ug/l	90
23) Vinyl Acetate	3.715	43	1071727	248.365	ug/l	100
24) 1,1-Dichloroethane	3.599	63	144325	48.732	ug/l	99
25) 2-Butanone	4.550	43	279933	243.912	ug/l	97
26) 2,2-Dichloropropane	4.464	77	113866	48.481	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	87985	48.076	ug/l	99
28) Bromochloromethane	4.885	49	72142	50.687	ug/l	99
29) Tetrahydrofuran	4.995	42	183038	240.180	ug/l	99
30) Chloroform	5.080	83	139181	48.459	ug/l	97
31) Cyclohexane	5.458	56	129630	47.478	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	118700	48.724	ug/l	99
36) 1,1-Dichloropropene	5.684	75	98671	49.631	ug/l	99
37) Ethyl Acetate	4.708	43	106523	48.172	ug/l	99
38) Carbon Tetrachloride	5.665	117	98102	50.355	ug/l	99
39) Methylcyclohexane	7.372	83	134748	52.425	ug/l	98
40) Benzene	6.025	78	309040	49.781	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	62387	52.708	ug/l		99
42) 1,2-Dichloroethane	6.074	62	102405	51.758	ug/l		99
43) Isopropyl Acetate	6.330	43	181205	50.744	ug/l		99
44) Trichloroethene	7.116	130	69974	49.313	ug/l		98
45) 1,2-Dichloropropane	7.421	63	77497	50.178	ug/l		99
46) Dibromomethane	7.574	93	53707	50.143	ug/l		99
47) Bromodichloromethane	7.811	83	106971	51.579	ug/l		96
48) Methyl methacrylate	7.683	41	86305	51.258	ug/l		98
49) 1,4-Dioxane	7.659	88	35447	981.246	ug/l		99
51) 4-Methyl-2-Pentanone	8.567	43	562757	259.224	ug/l		99
52) Toluene	8.714	92	188063	50.867	ug/l		99
53) t-1,3-Dichloropropene	8.970	75	108842	51.862	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	120059	51.308	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	70772	49.796	ug/l		97
56) Ethyl methacrylate	9.110	69	117608	51.235	ug/l		98
57) 1,3-Dichloropropane	9.305	76	125770	50.576	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.232	63	298625	264.951	ug/l		99
59) 2-Hexanone	9.427	43	404473	258.586	ug/l		98
60) Dibromochloromethane	9.518	129	77715	51.129	ug/l		99
61) 1,2-Dibromoethane	9.604	107	72757	50.508	ug/l		98
64) Tetrachloroethene	9.268	164	59146	50.651	ug/l		98
65) Chlorobenzene	10.073	112	200858	50.505	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	64502	50.389	ug/l		99
67) Ethyl Benzene	10.189	91	358077	51.021	ug/l		99
68) m/p-Xylenes	10.299	106	264855	102.304	ug/l		99
69) o-Xylene	10.640	106	131657	50.681	ug/l		100
70) Styrene	10.652	104	220619	52.714	ug/l		99
71) Bromoform	10.793	173	49868	52.200	ug/l	#	99
73) Isopropylbenzene	10.957	105	336153	49.681	ug/l		99
74) N-amyl acetate	10.841	43	151720	49.552	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	108321	46.588	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	117510	63.071	ug/l		82
77) Bromobenzene	11.195	156	76664	49.976	ug/l		98
78) n-propylbenzene	11.299	91	397362	50.880	ug/l		100
79) 2-Chlorotoluene	11.360	91	233123	48.568	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	276841	50.419	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	34230	47.260	ug/l		98
82) 4-Chlorotoluene	11.451	91	268620	50.585	ug/l		99
83) tert-Butylbenzene	11.713	119	275866	49.664	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	275526	50.841	ug/l		99
85) sec-Butylbenzene	11.884	105	352655	51.270	ug/l		100
86) p-Isopropyltoluene	12.006	119	285566	51.626	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	139339	49.394	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	138443	48.539	ug/l		99
89) n-Butylbenzene	12.329	91	263985	53.945	ug/l		100
90) Hexachloroethane	12.536	117	50761	49.010	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	135345	48.817	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20298	47.833	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	85318	50.856	ug/l		99
94) Hexachlorobutadiene	13.719	225	34467	51.753	ug/l		98
95) Naphthalene	13.774	128	299724	49.423	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	85892	50.809	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

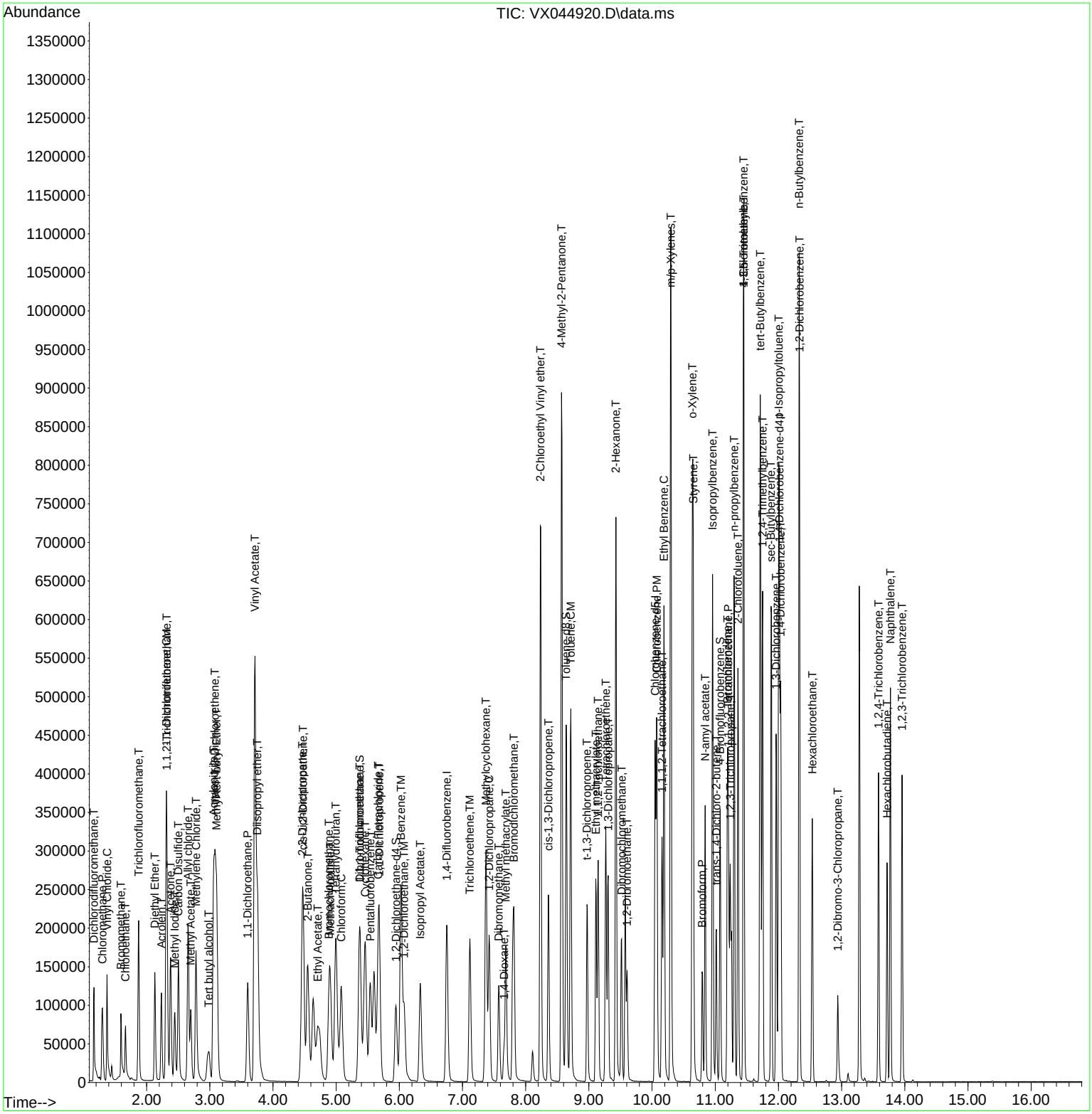
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

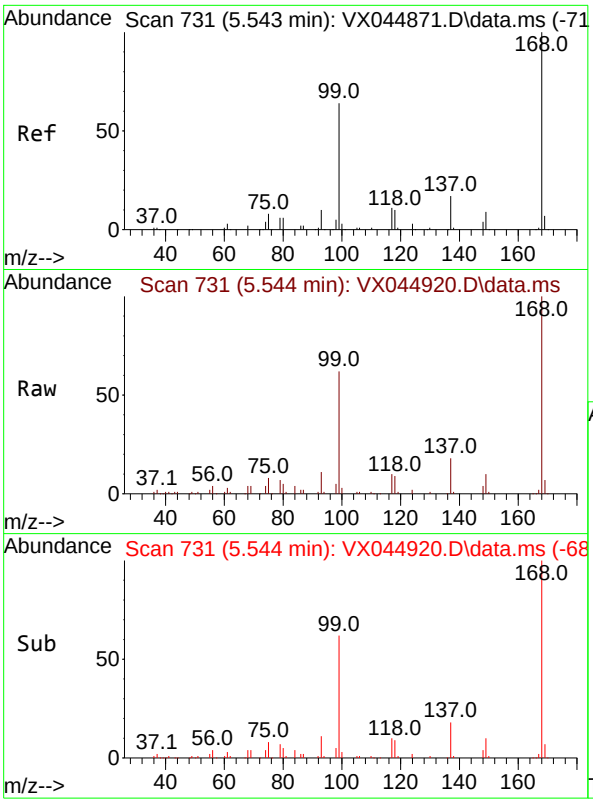
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044920.D
Acq On : 12 Feb 2025 10:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Feb 13 00:46:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



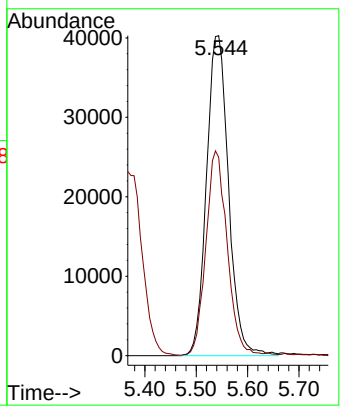


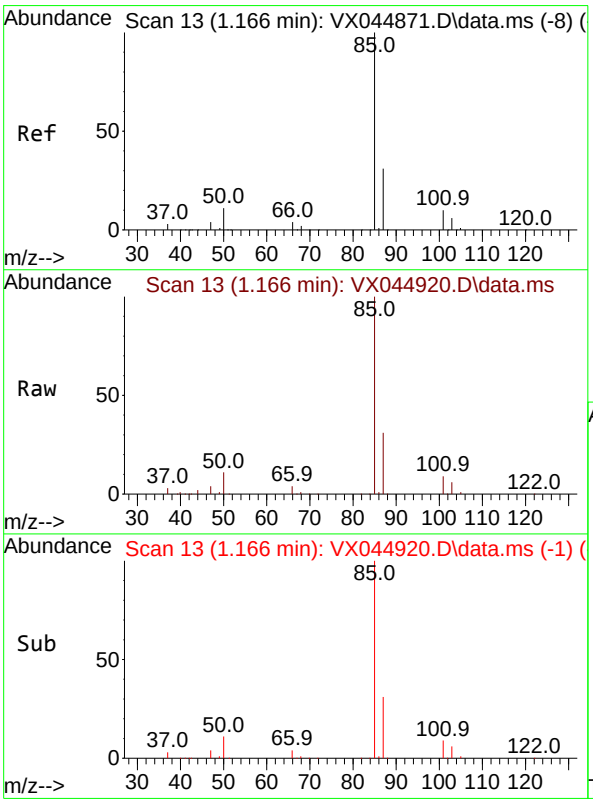
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 120105

Ion	Ratio	Lower	Upper
168	100		
99	61.8	51.2	76.8

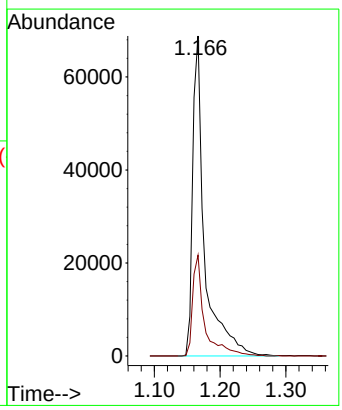


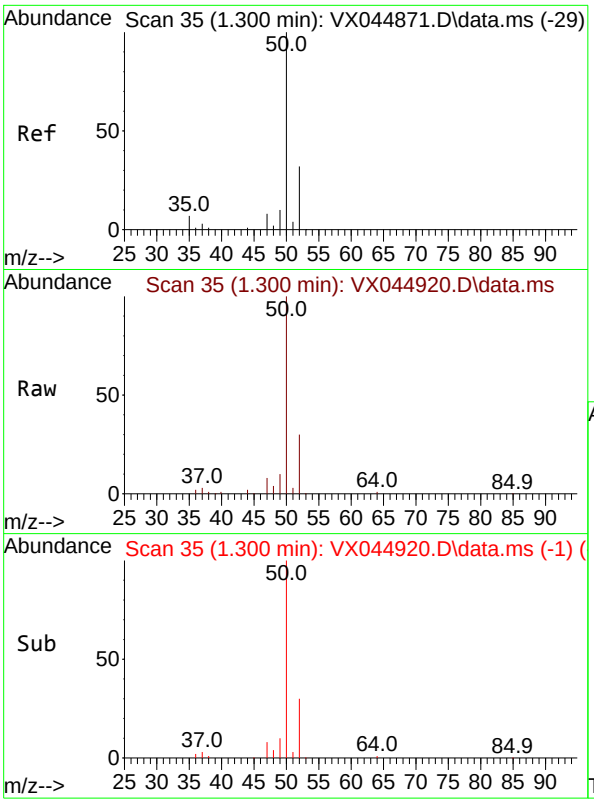


#2
Dichlorodifluoromethane
Concen: 51.201 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 85 Resp: 86249

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3



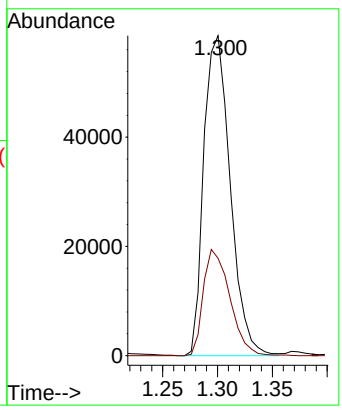


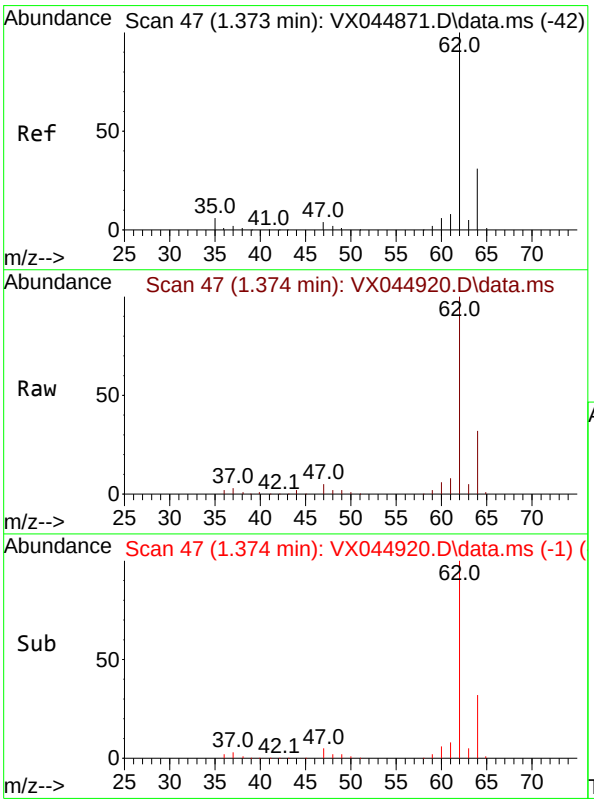
#3
Chloromethane
Concen: 48.058 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 98529

Ion	Ratio	Lower	Upper
50	100		
52	30.5	25.9	38.9

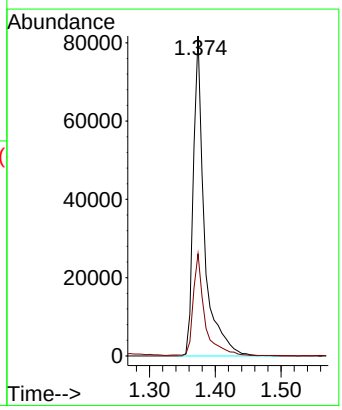


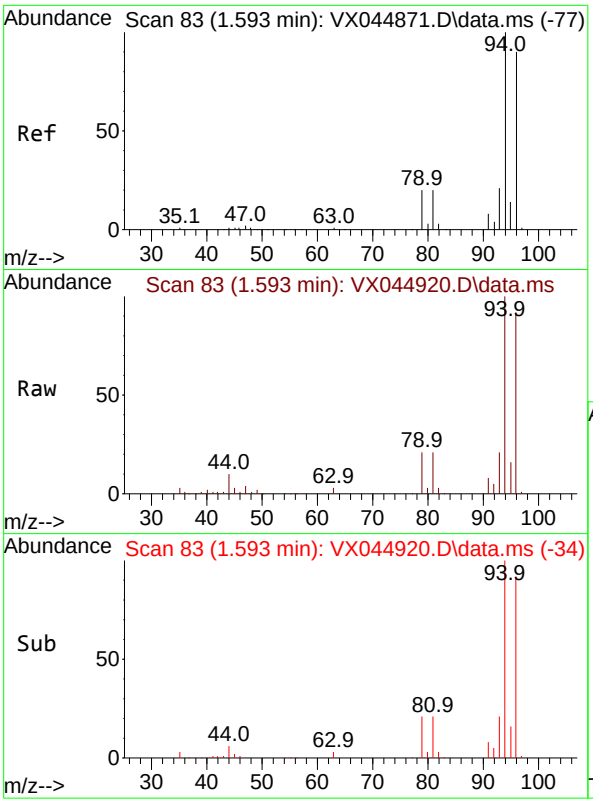


#4
Vinyl Chloride
Concen: 48.212 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 62 Resp: 95759

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0



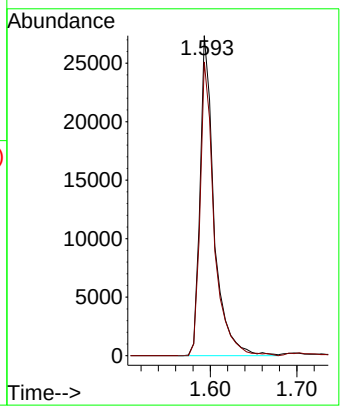


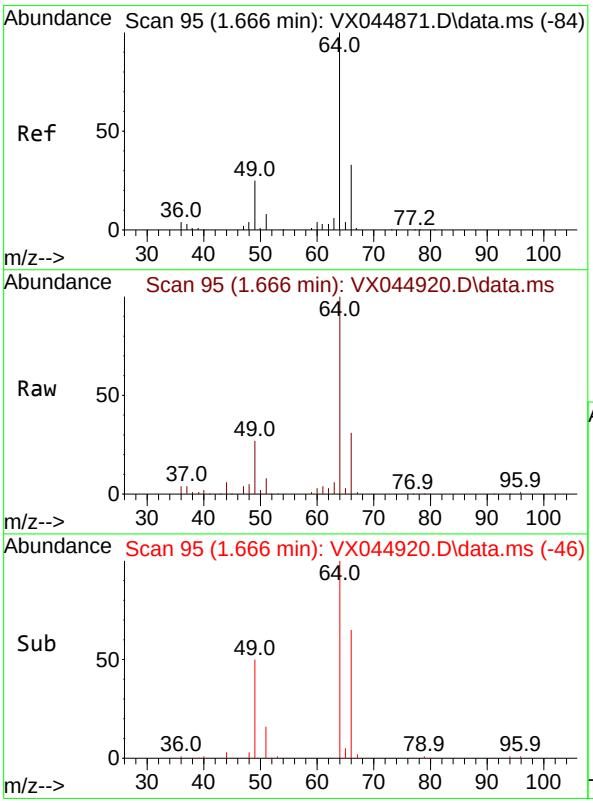
#5
Bromomethane
Concen: 51.816 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 30797

Ion	Ratio	Lower	Upper
94	100		
96	91.8	71.6	107.4

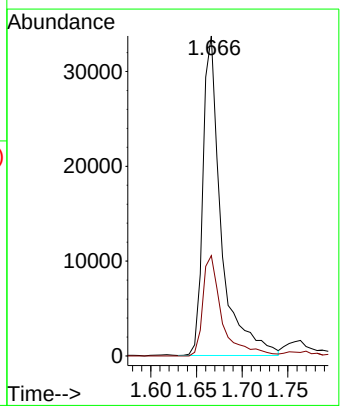


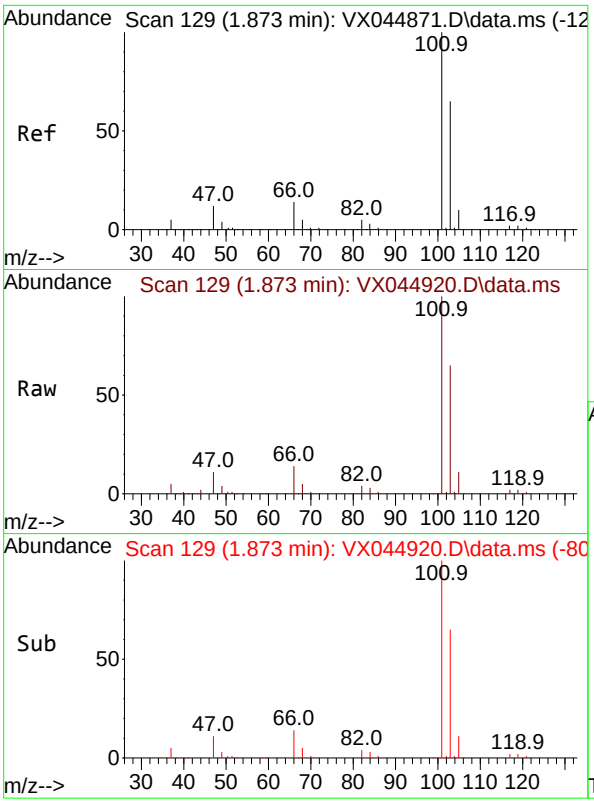


#6
Chloroethane
Concen: 64.424 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 64 Resp: 46742

Ion	Ratio	Lower	Upper
64	100		
66	31.4	25.9	38.9



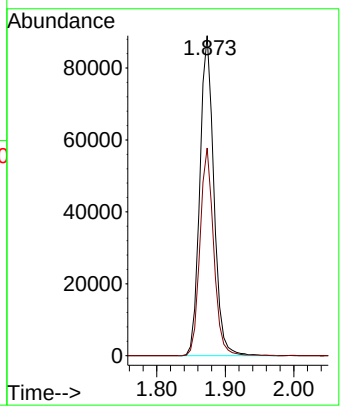


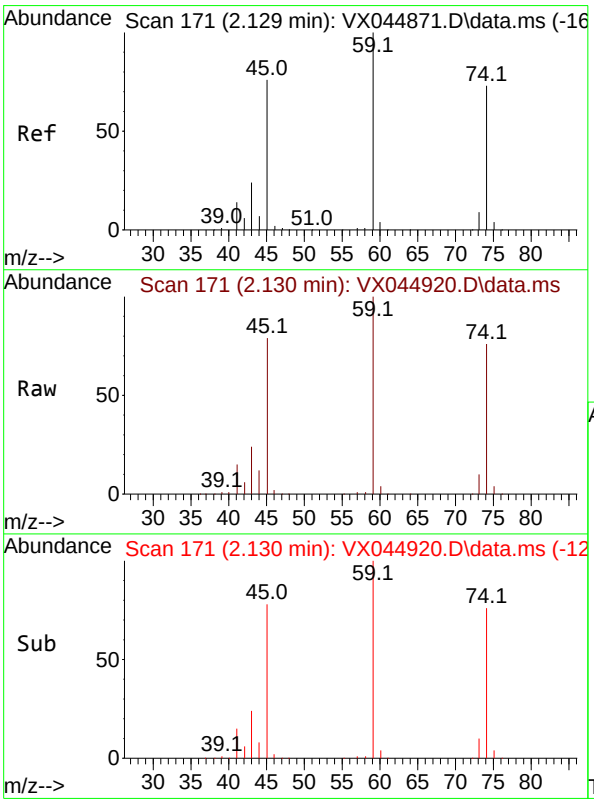
#7
Trichlorofluoromethane
Concen: 50.511 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 126873

Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.4	78.6

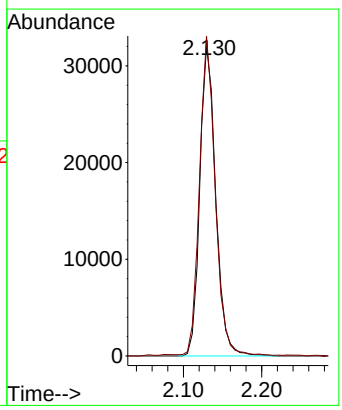


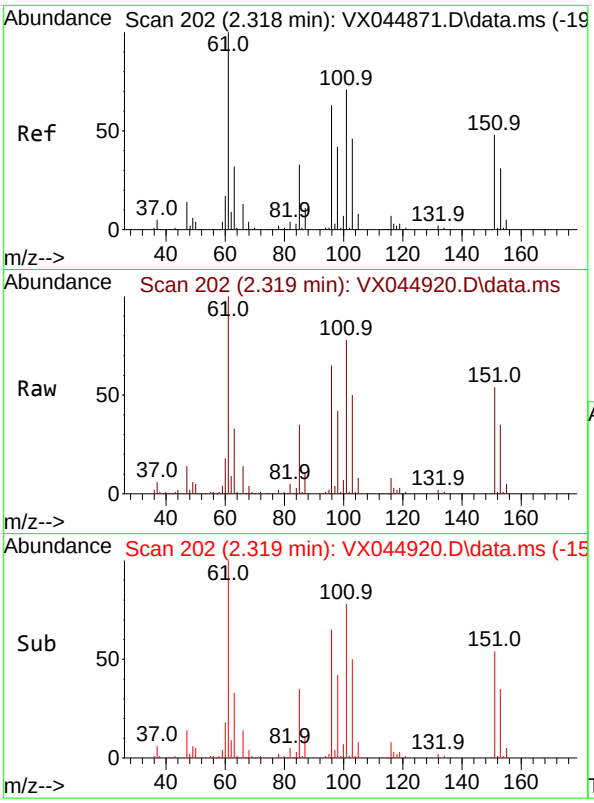


#8
Diethyl Ether
Concen: 49.748 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 74 Resp: 45317

Ion	Ratio	Lower	Upper
74	100		
45	101.1	51.1	153.4



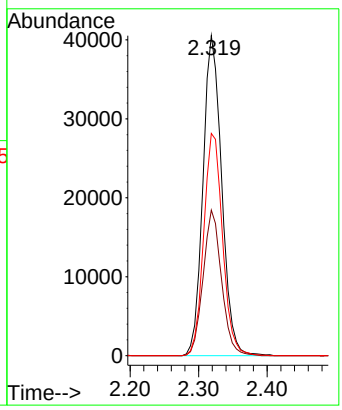


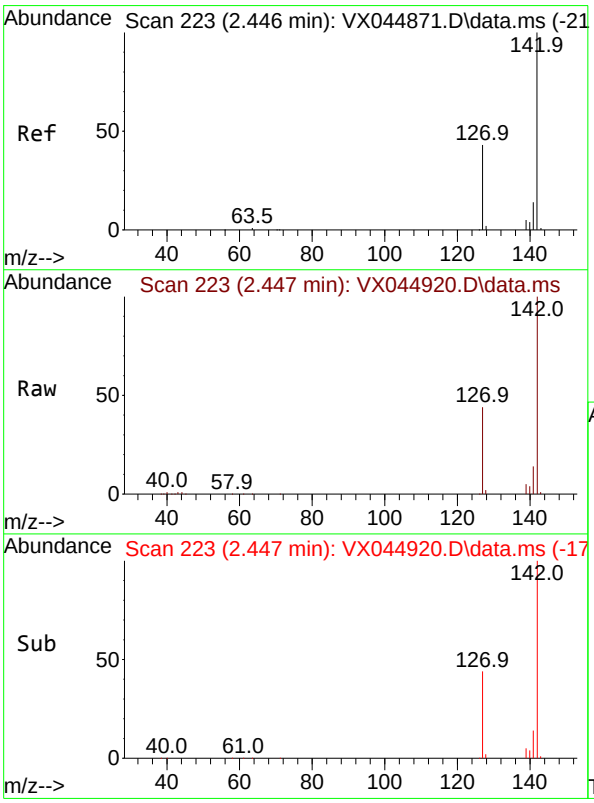
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.809 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 77108

Ion	Ratio	Lower	Upper
101	100		
85	44.6	35.7	53.5
151	69.9	56.0	84.0

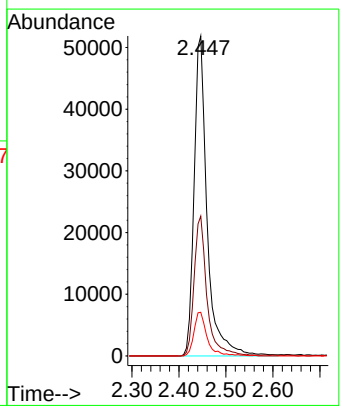


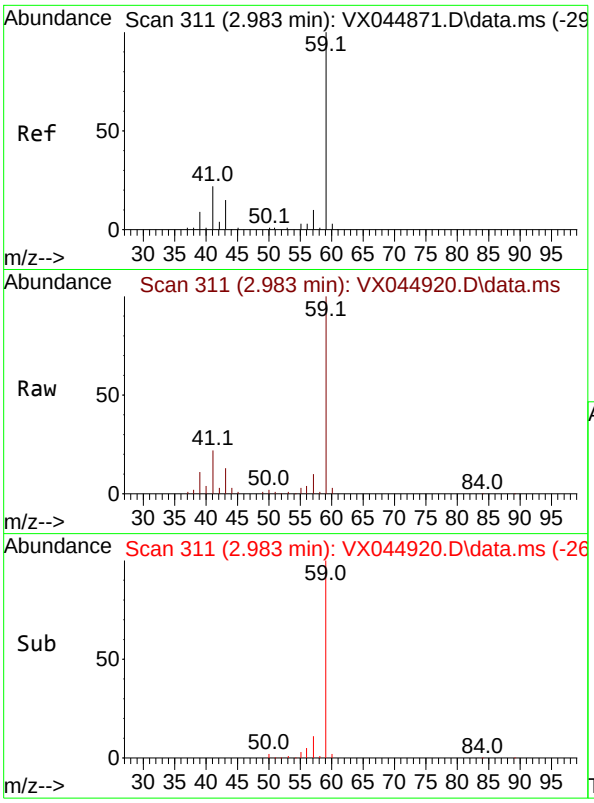


#10
Methyl Iodide
Concen: 51.121 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:142 Resp: 100548

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	13.9	11.4	17.2



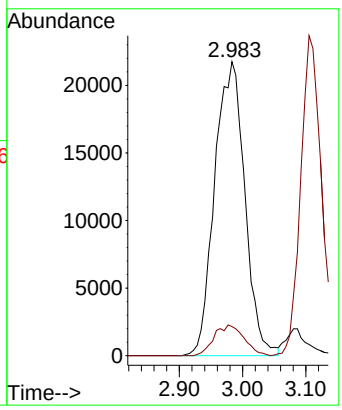


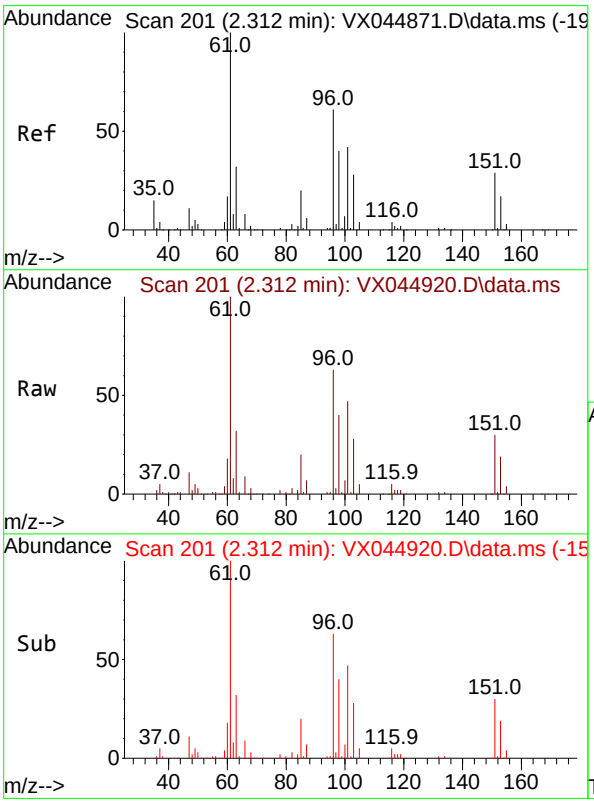
#11
Tert butyl alcohol
Concen: 220.523 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 71926

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.1	12.1

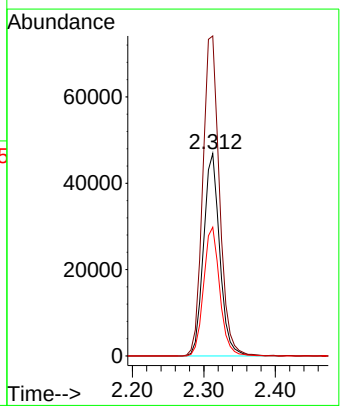


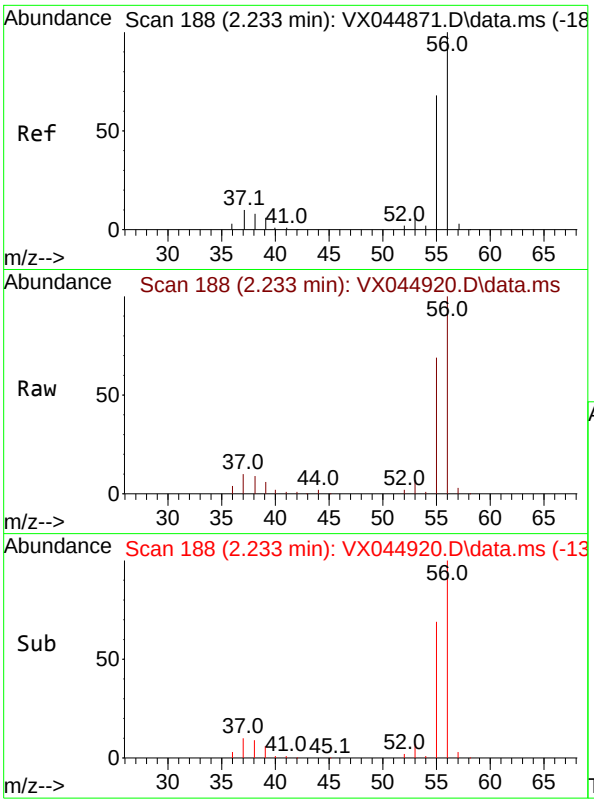


#12
1,1-Dichloroethene
Concen: 47.582 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 96 Resp: 73660

Ion	Ratio	Lower	Upper
96	100		
61	158.1	130.2	195.4
98	63.6	52.2	78.4



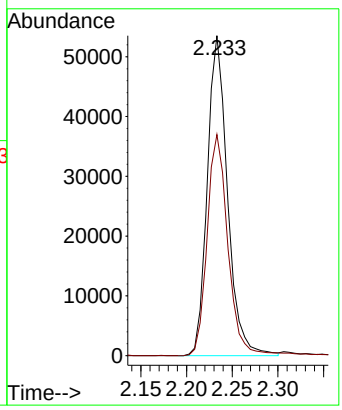


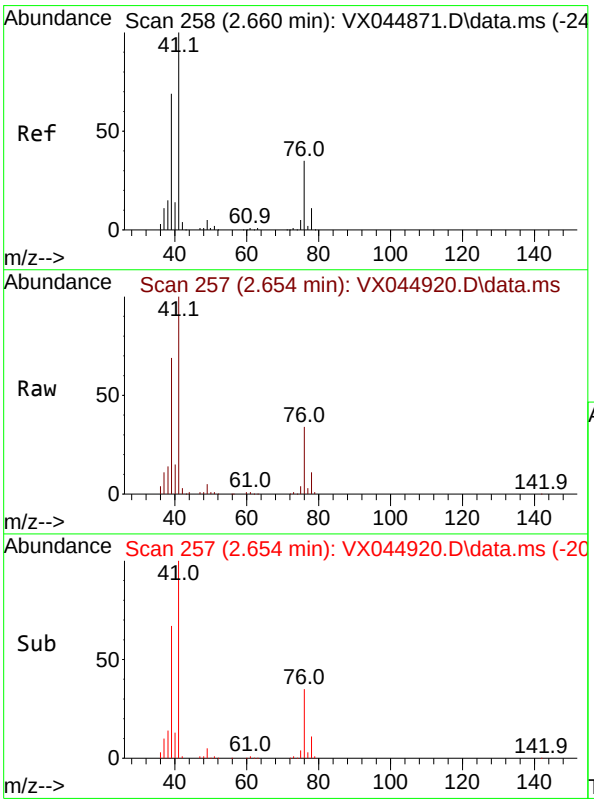
#13
Acrolein
Concen: 243.819 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 82049

Ion	Ratio	Lower	Upper
56	100		
55	71.8	55.7	83.5

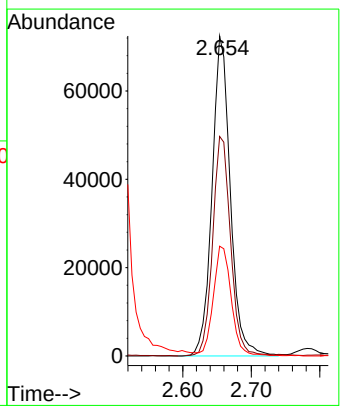


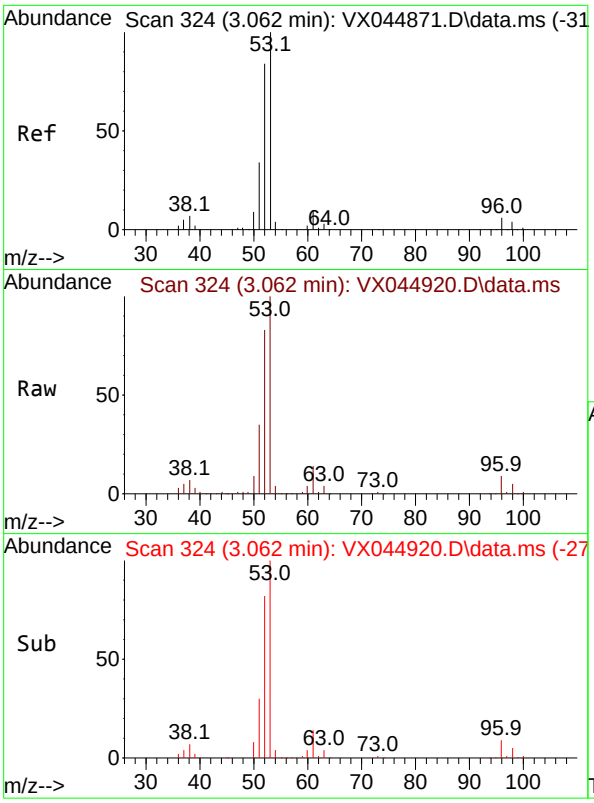


#14
Allyl chloride
Concen: 48.073 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 41 Resp: 134496

Ion	Ratio	Lower	Upper
41	100		
39	67.2	51.4	77.2
76	33.4	27.0	40.4



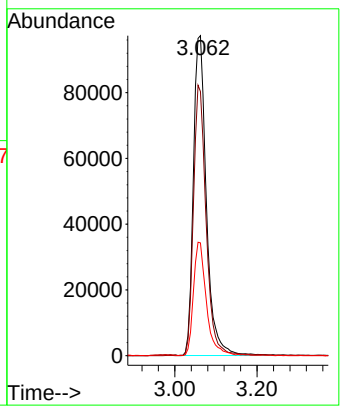


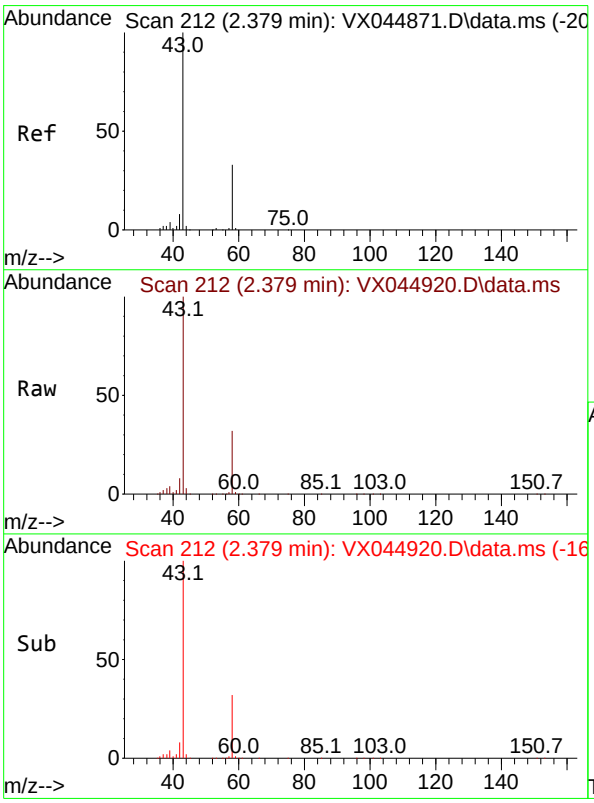
#15
Acrylonitrile
Concen: 245.512 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 213802

Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.0	97.6
51	35.2	28.0	42.0

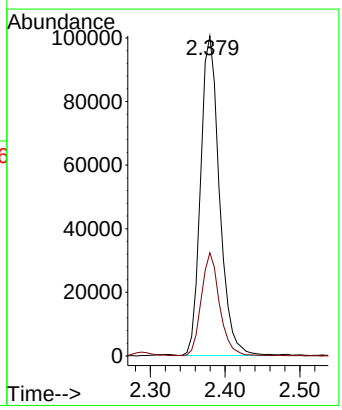


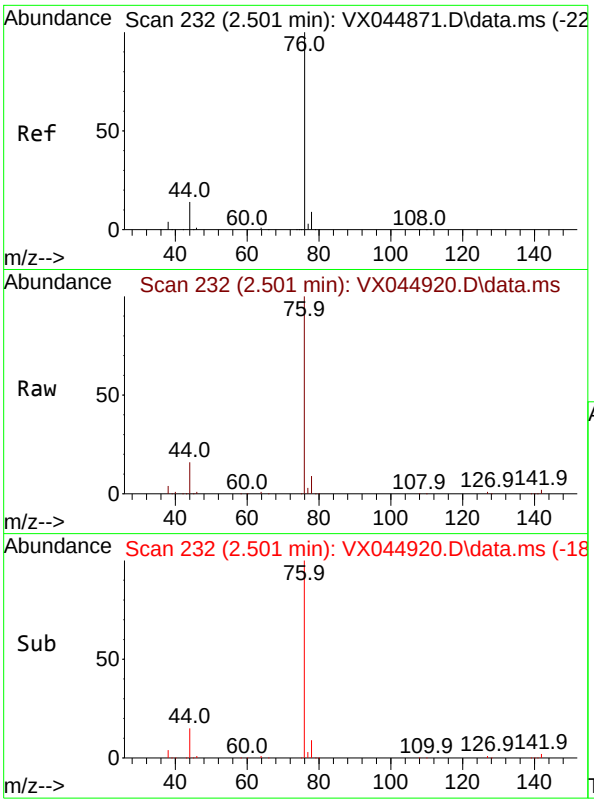


#16
Acetone
Concen: 248.546 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 175667

Ion	Ratio	Lower	Upper
43	100		
58	32.2	26.5	39.7



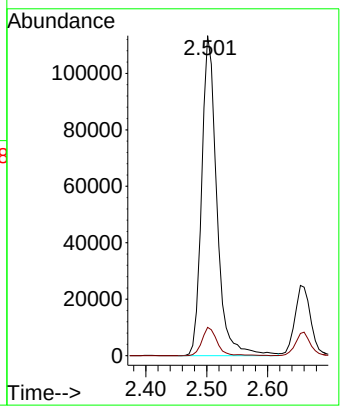


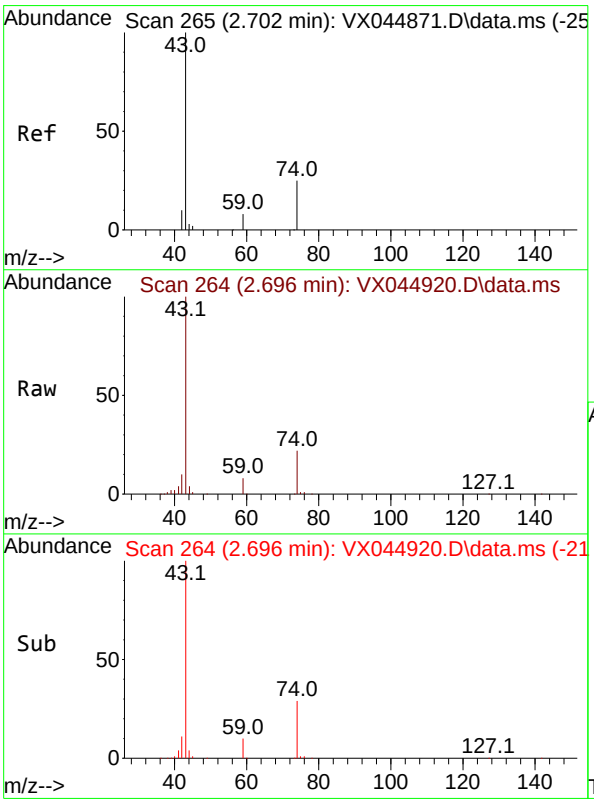
#17
Carbon Disulfide
Concen: 46.213 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 196175

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4

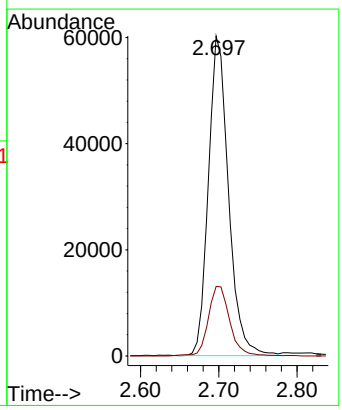


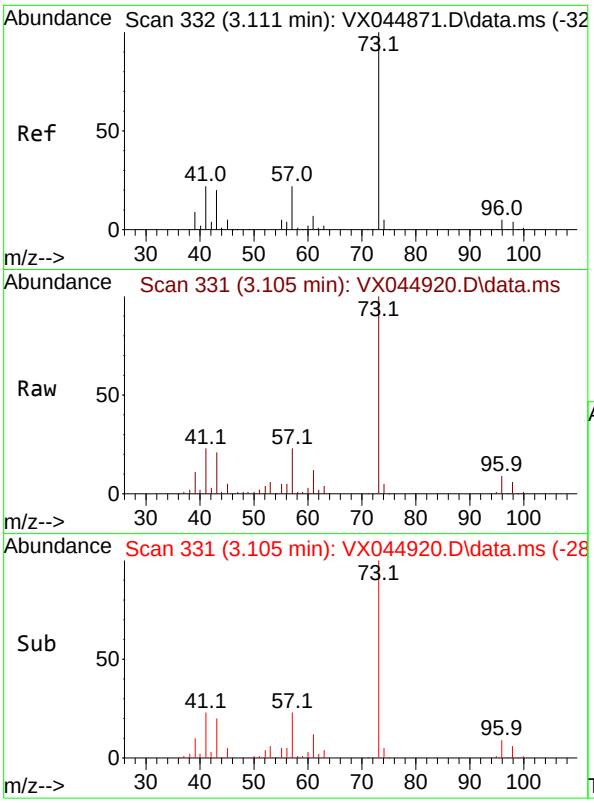


#18
Methyl Acetate
Concen: 48.211 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 107526

Ion	Ratio	Lower	Upper
43	100		
74	23.1	18.9	28.3



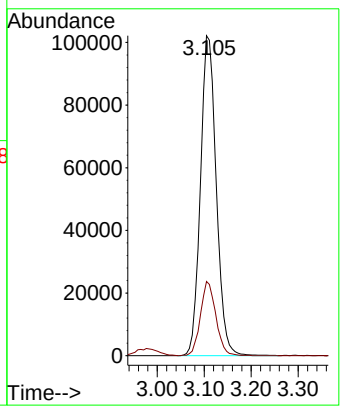


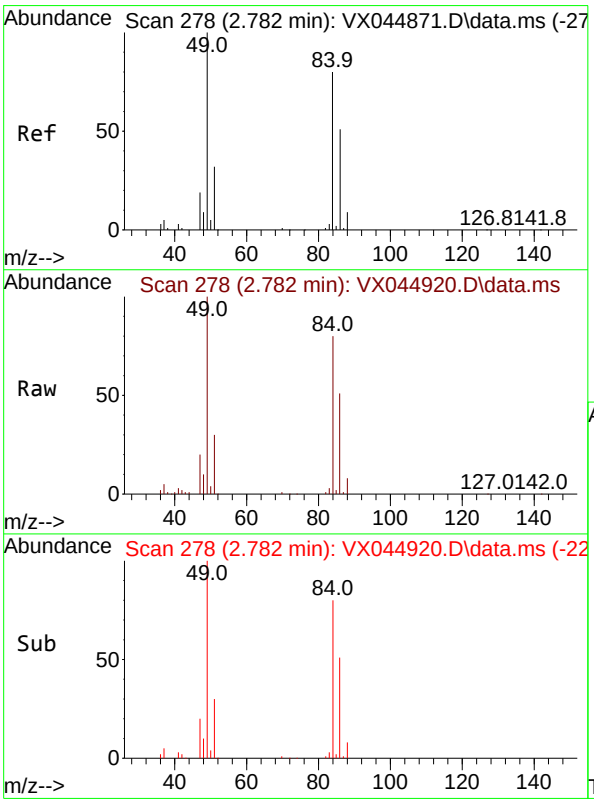
#19
Methyl tert-butyl Ether
Concen: 48.574 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 239250

Ion	Ratio	Lower	Upper
73	100		
57	23.2	17.9	26.9

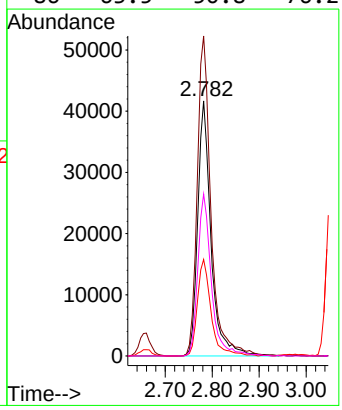


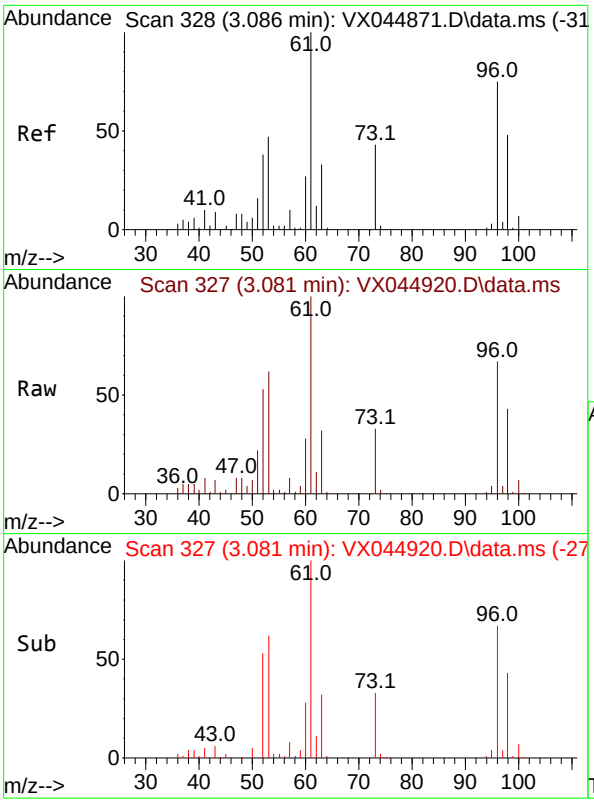


#20
Methylene Chloride
Concen: 47.678 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 84 Resp: 82539

Ion	Ratio	Lower	Upper
84	100		
49	125.5	100.1	150.1
51	37.8	31.7	47.5
86	63.5	50.8	76.2



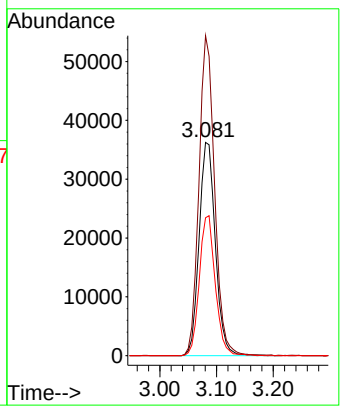


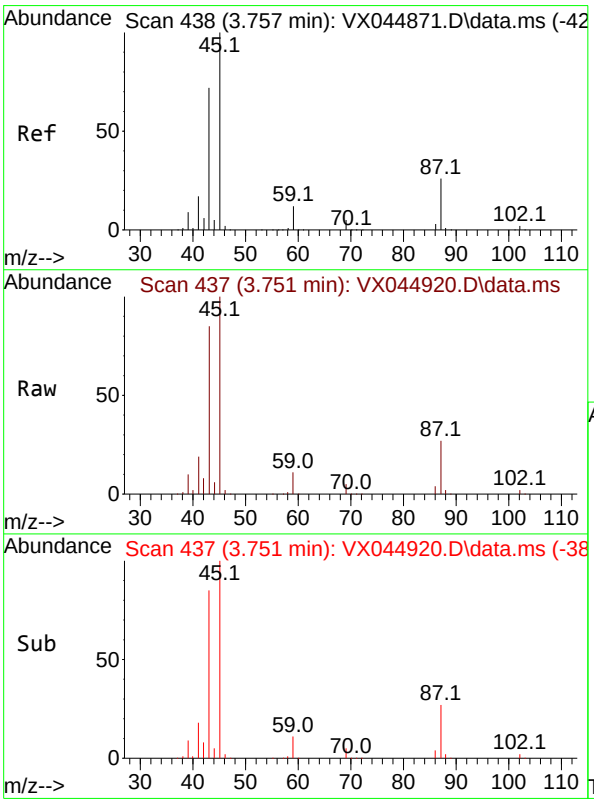
#21
trans-1,2-Dichloroethene
Concen: 47.344 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 72134

Ion	Ratio	Lower	Upper
96	100		
61	150.0	106.0	159.0
98	64.6	50.6	76.0

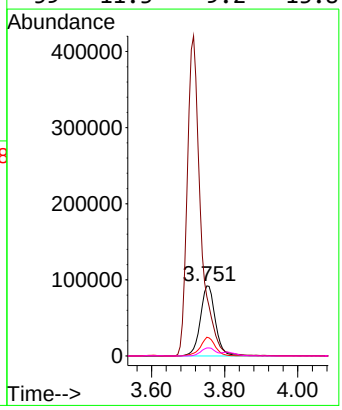


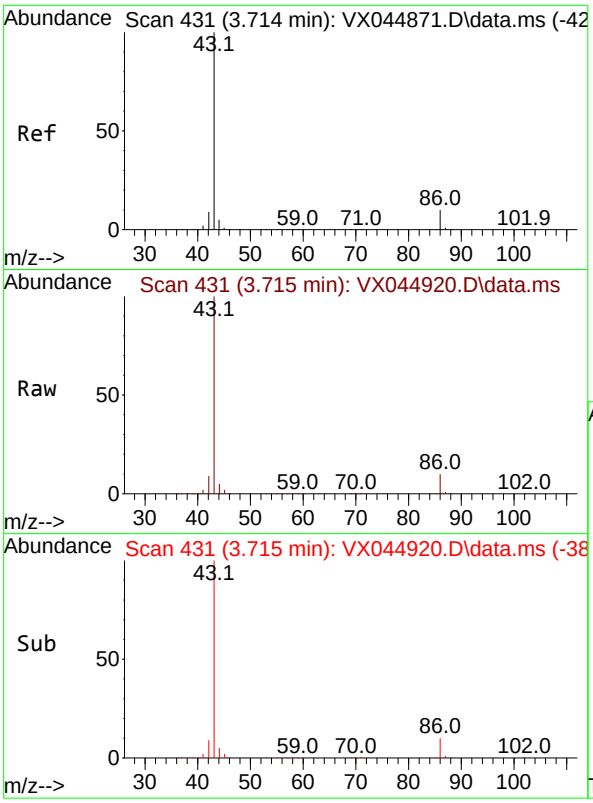


#22
Diisopropyl ether
Concen: 49.465 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 45 Resp: 261816

Ion	Ratio	Lower	Upper
45	100		
43	84.1	58.0	87.0
87	26.6	20.7	31.1
59	11.3	9.2	13.8



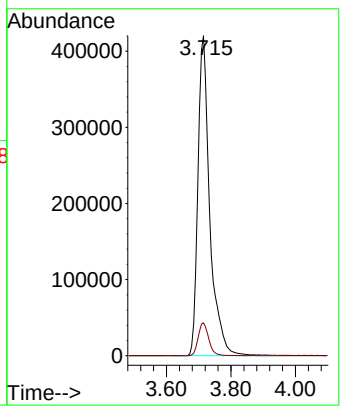


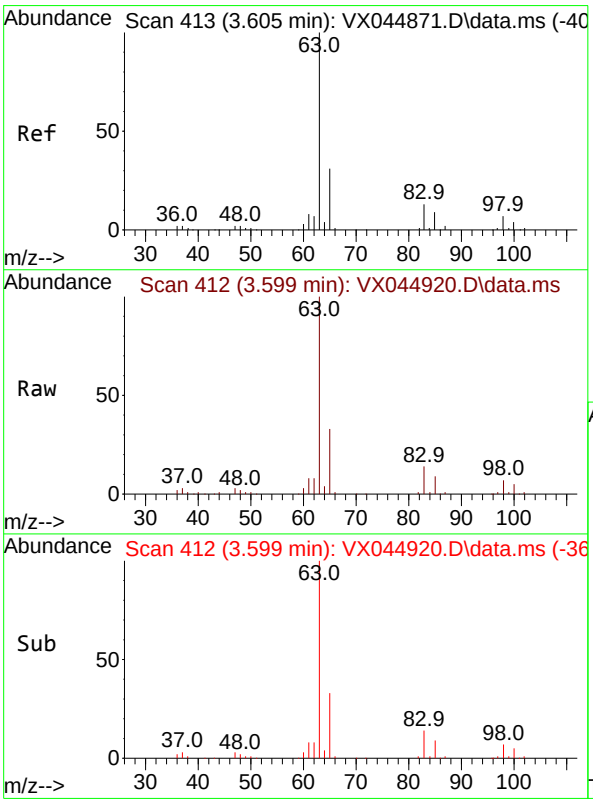
#23
Vinyl Acetate
Concen: 248.365 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1071727

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.3	12.5

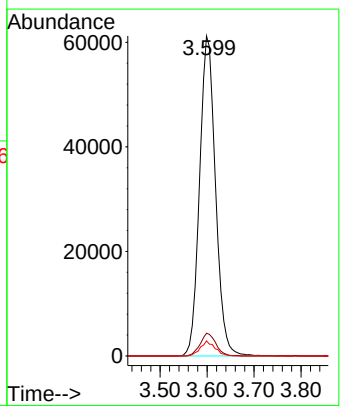


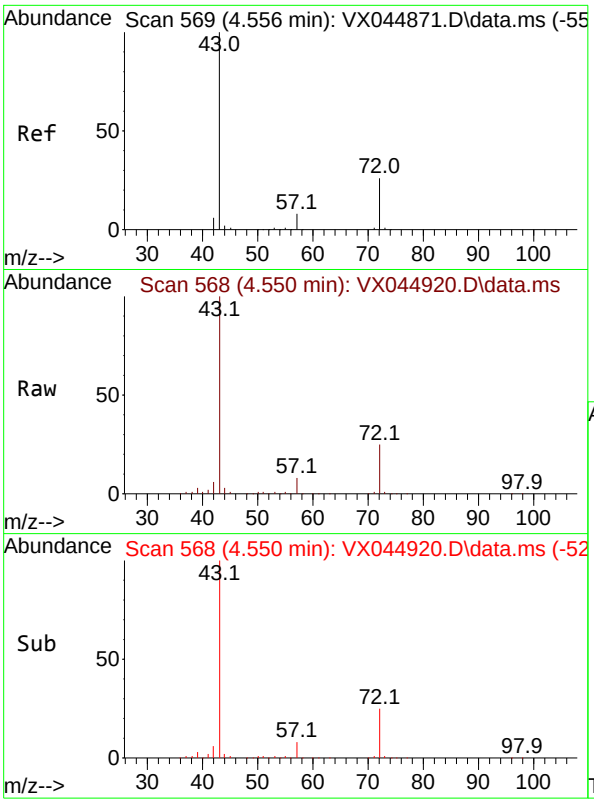


#24
1,1-Dichloroethane
Concen: 48.732 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 63 Resp: 144325

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.3	9.9
100	4.7	2.1	6.5



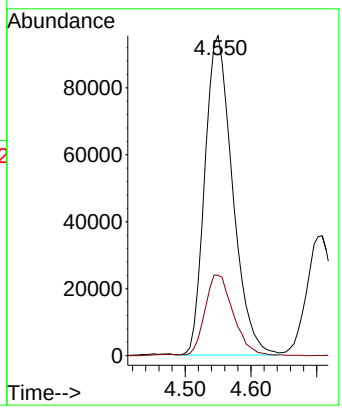


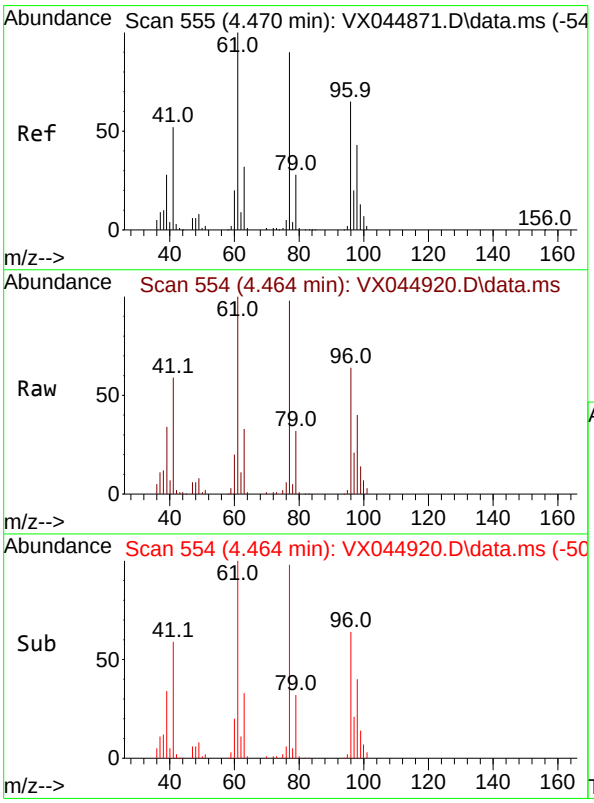
#25
2-Butanone
Concen: 243.912 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 279933

Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.2	31.8

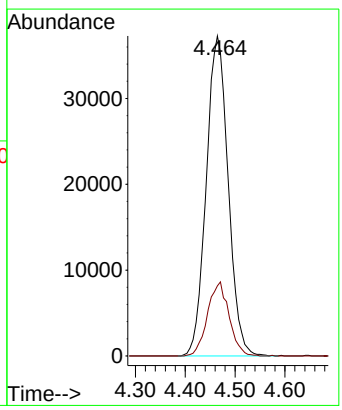


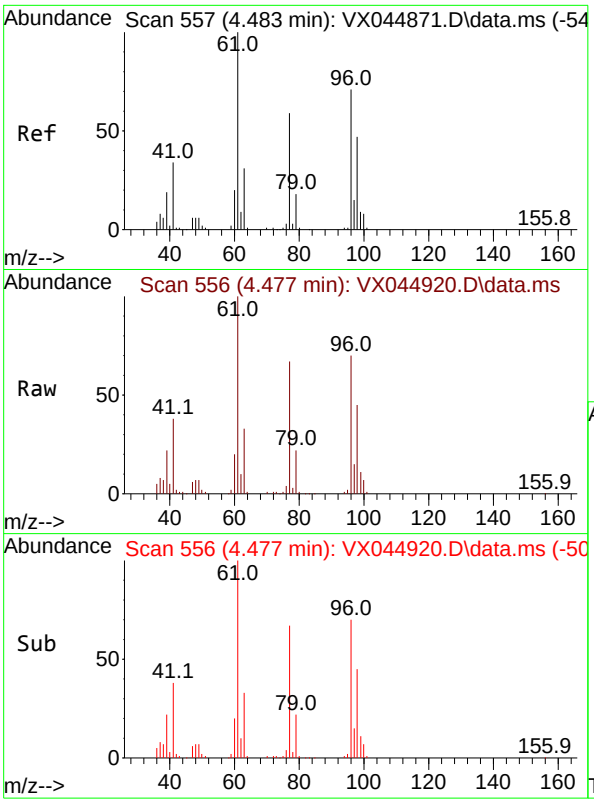


#26
2,2-Dichloropropane
Concen: 48.481 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 77 Resp: 113866

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.8	35.3



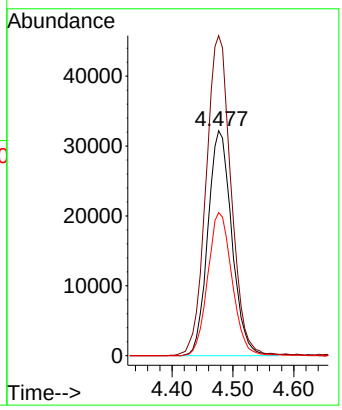


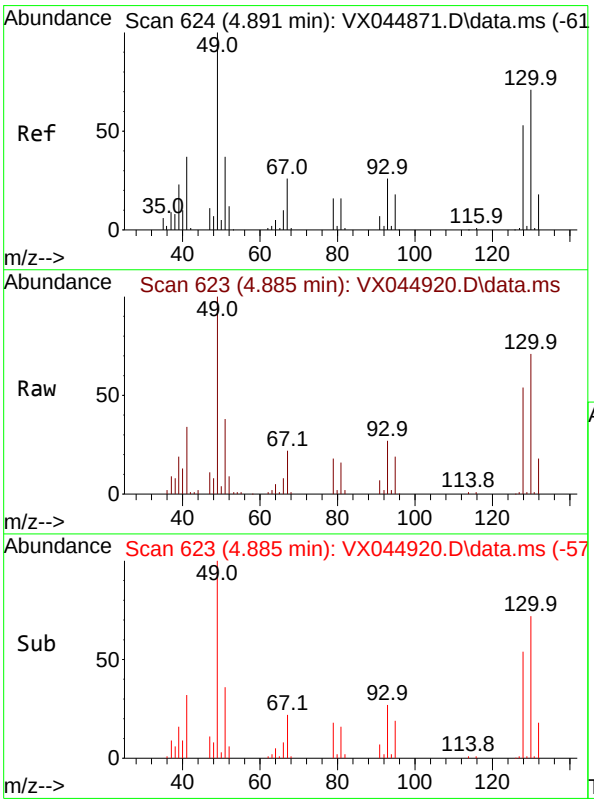
#27
cis-1,2-Dichloroethene
Concen: 48.076 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 87985

Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	294.0
98	64.4	0.0	131.2

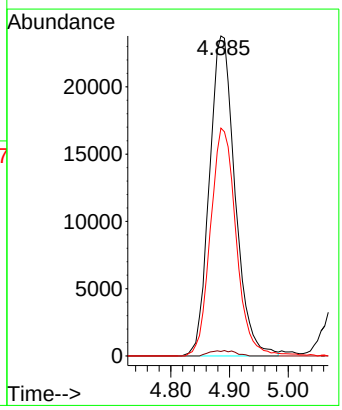


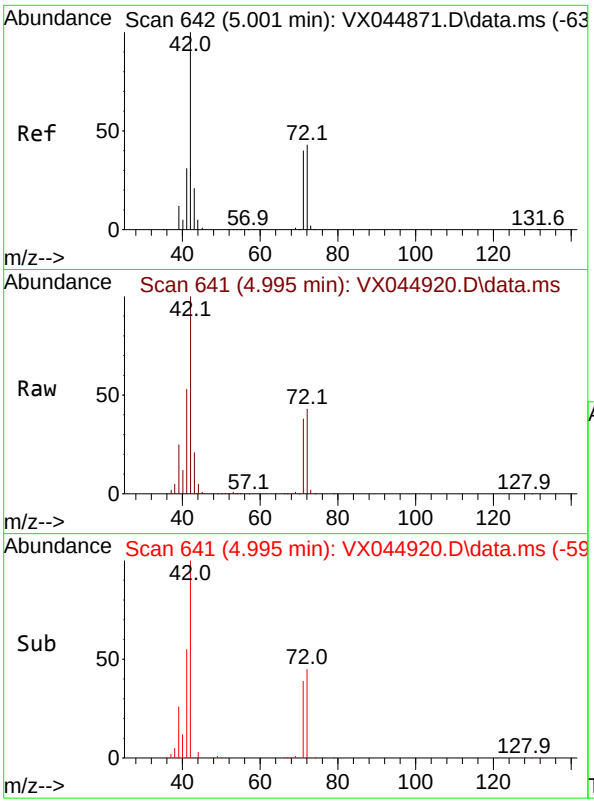


#28
Bromochloromethane
Concen: 50.687 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 49 Resp: 72142

Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	3.6
130	71.4	56.7	85.1



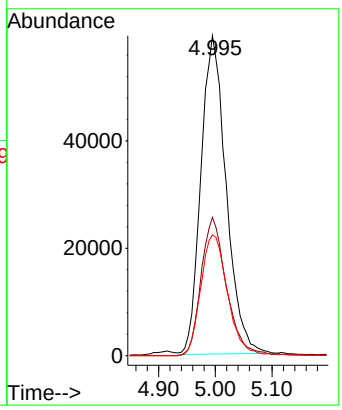


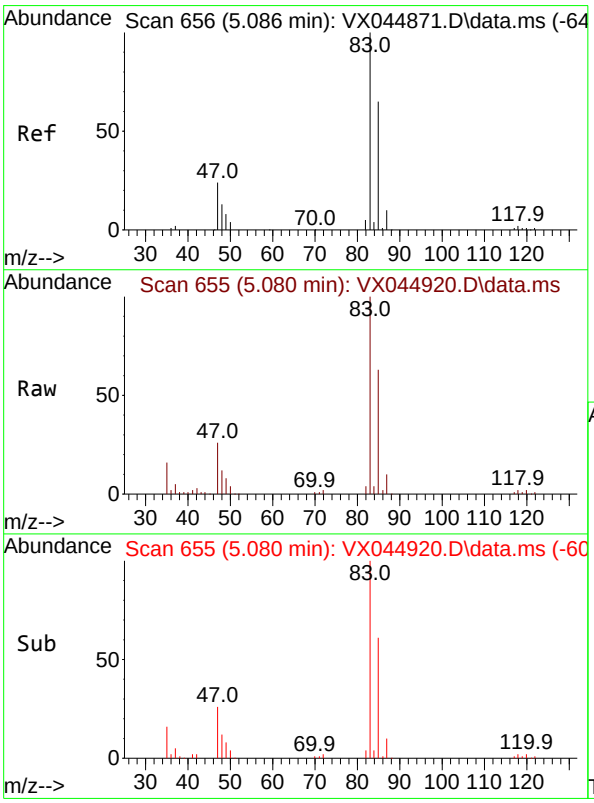
#29
Tetrahydrofuran
Concen: 240.180 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 183038

Ion	Ratio	Lower	Upper
42	100		
72	44.0	35.0	52.4
71	40.2	32.6	48.8

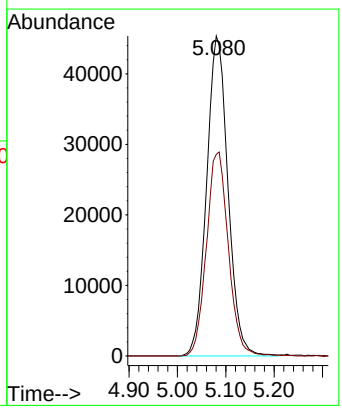


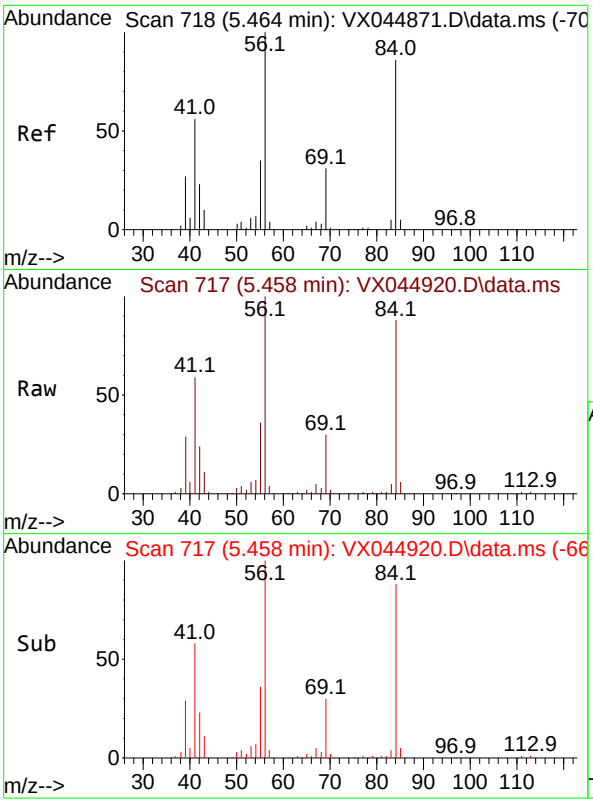


#30
Chloroform
Concen: 48.459 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 83 Resp: 139181

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.1	78.1



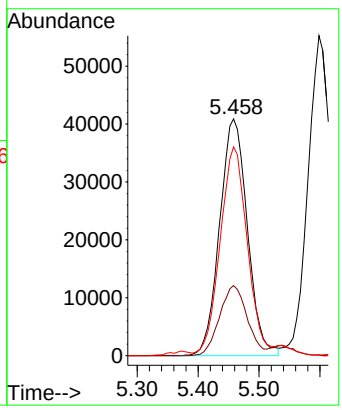


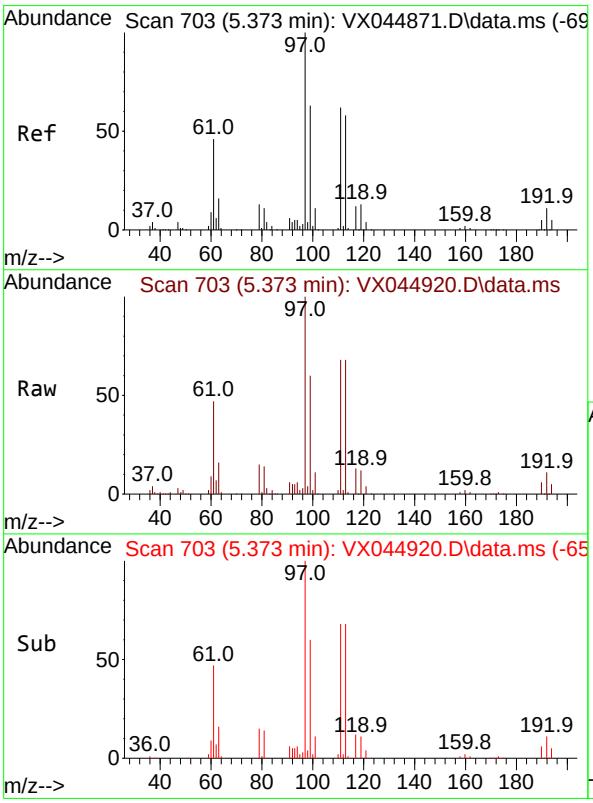
#31
Cyclohexane
Concen: 47.478 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 129630

Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.4	36.6
84	86.6	69.0	103.6

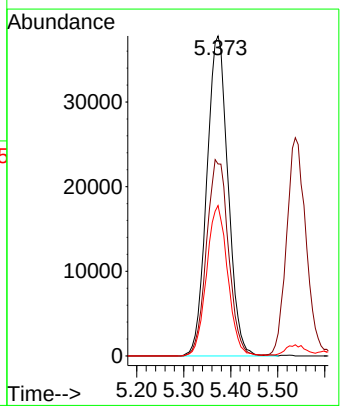


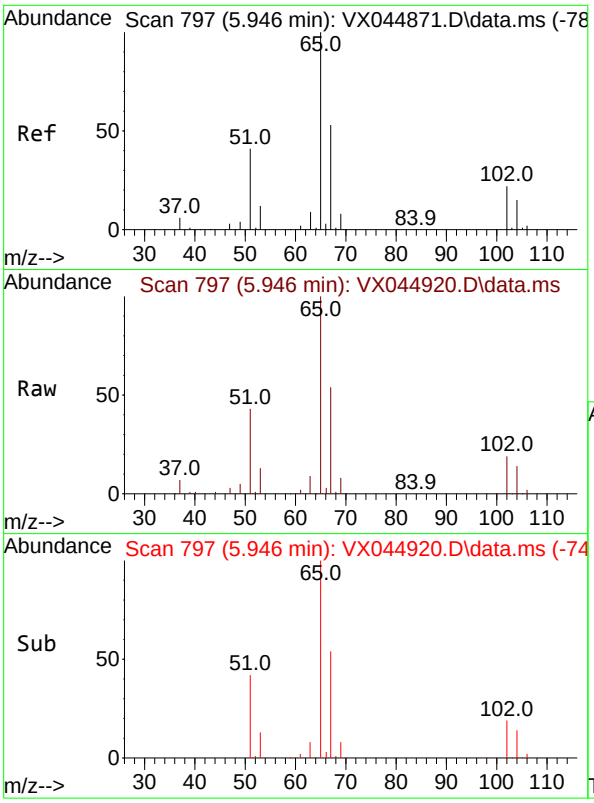


#32
1,1,1-Trichloroethane
Concen: 48.724 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 97 Resp: 118700

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.0	76.6
61	47.0	36.6	55.0



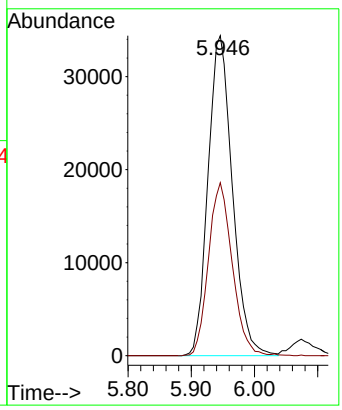


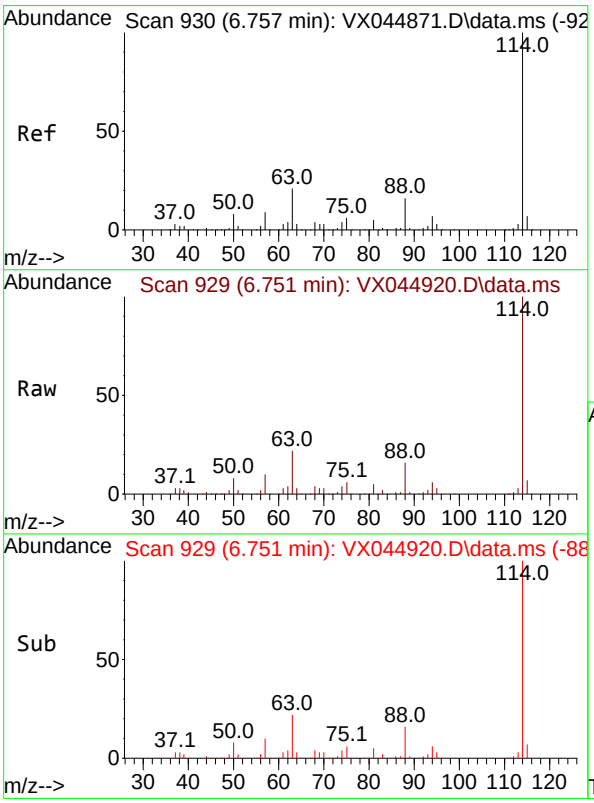
#33
1,2-Dichloroethane-d4
Concen: 52.302 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 91954

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	108.2

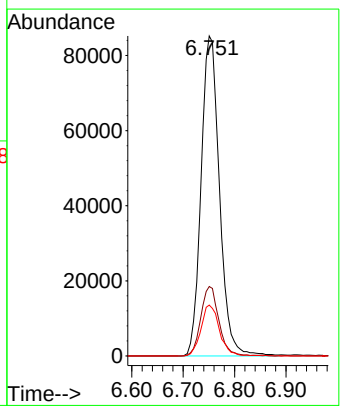


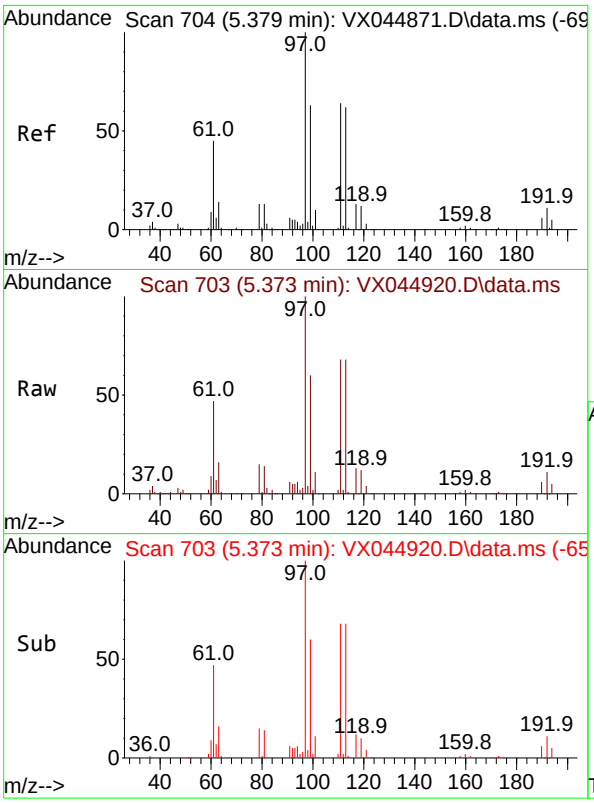


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:114 Resp: 211946

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	42.4
88	15.9	0.0	31.4



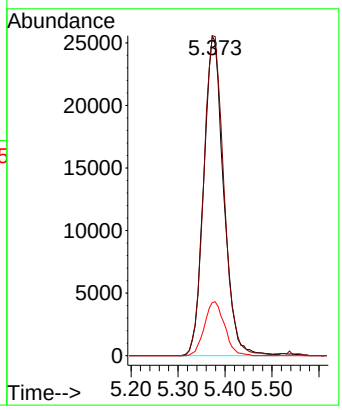


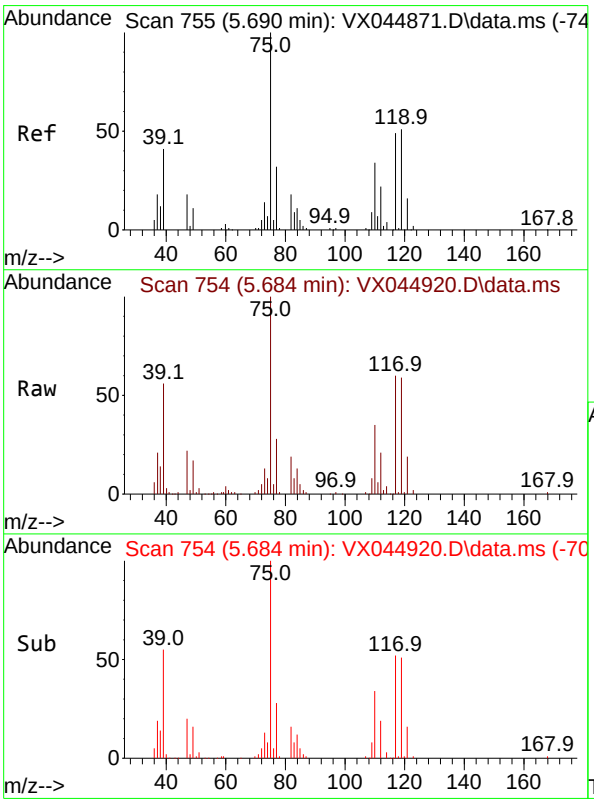
#35
Dibromofluoromethane
Concen: 54.340 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 74881

Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.5	125.3
192	17.2	14.4	21.6

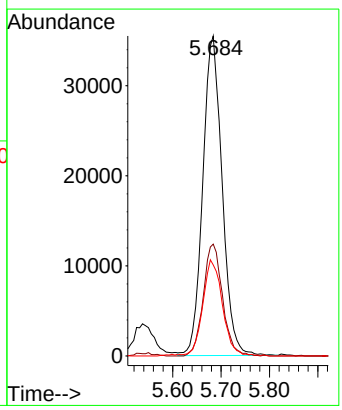


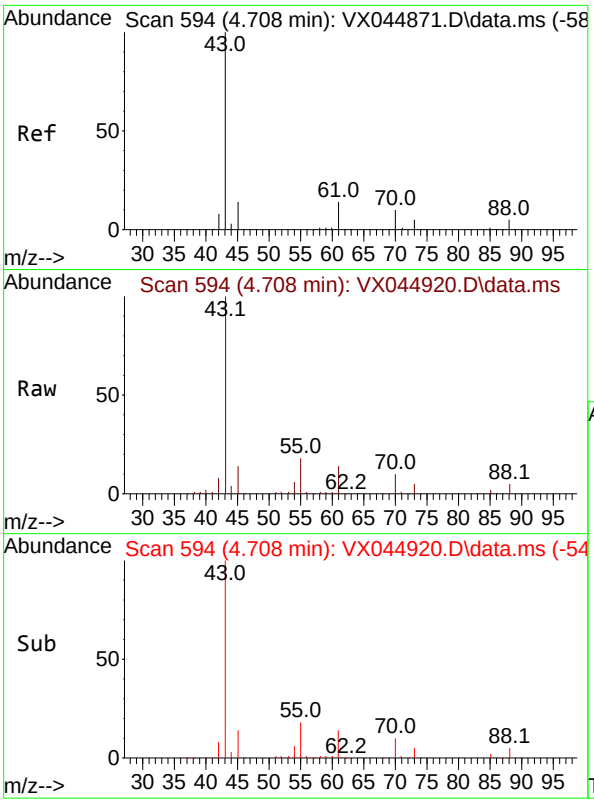


#36
1,1-Dichloropropene
Concen: 49.631 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 98671

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.2	51.6
77	30.5	24.6	37.0



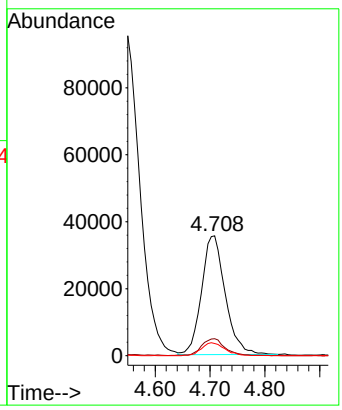


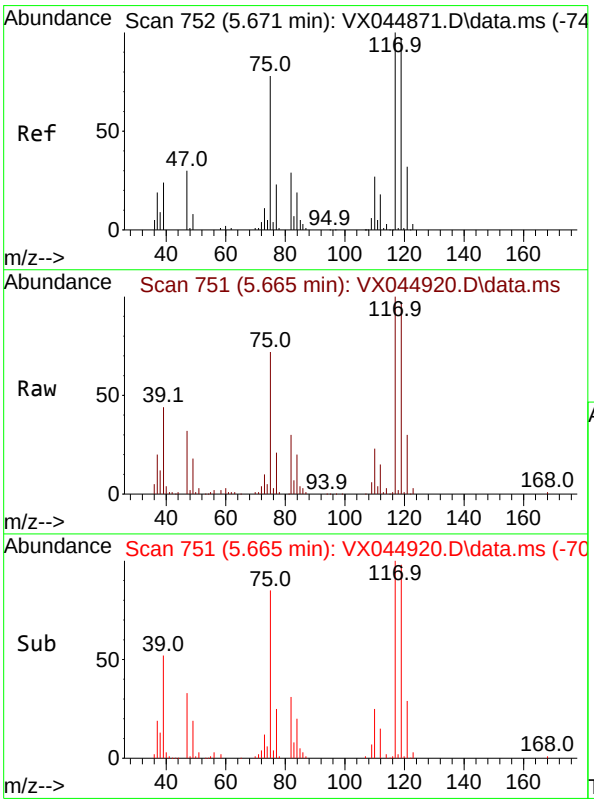
#37
Ethyl Acetate
Concen: 48.172 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 106523

Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.0	16.4
70	10.7	8.2	12.2

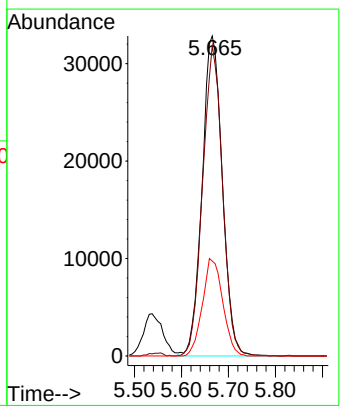


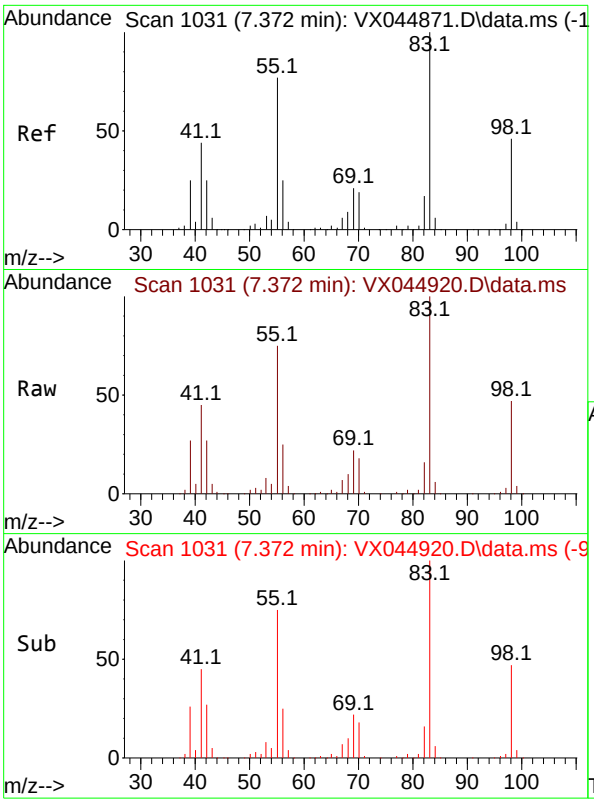


#38
Carbon Tetrachloride
Concen: 50.355 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:117 Resp: 98102

Ion	Ratio	Lower	Upper
117	100		
119	97.1	77.5	116.3
121	29.7	25.6	38.4



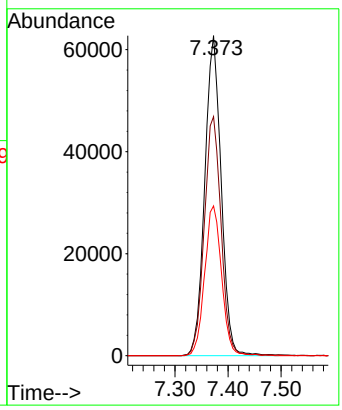


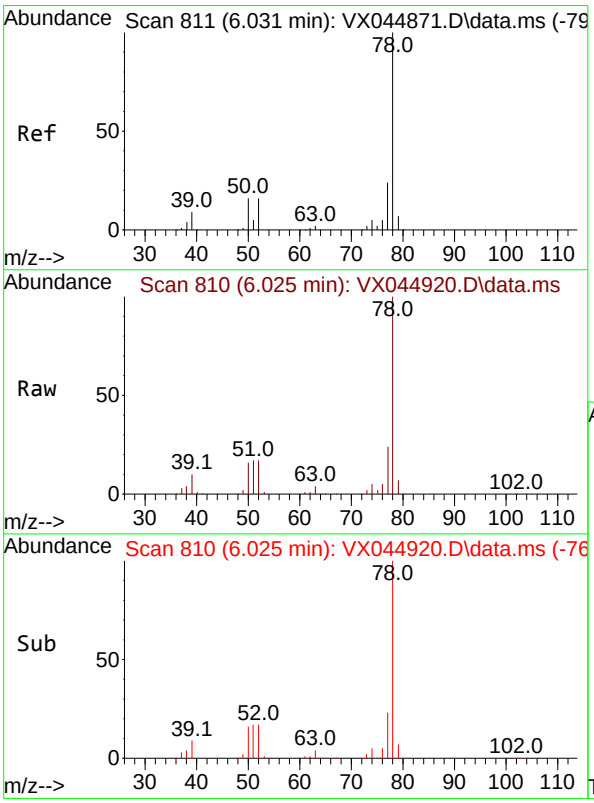
#39
Methylcyclohexane
Concen: 52.425 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 134748

Ion	Ratio	Lower	Upper
83	100		
55	74.7	61.3	91.9
98	46.8	37.0	55.6

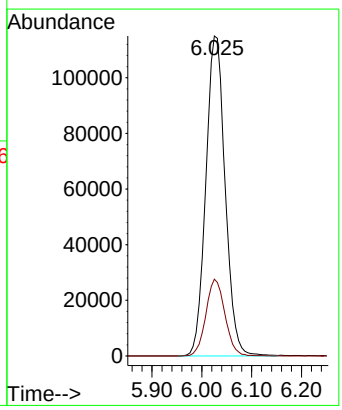


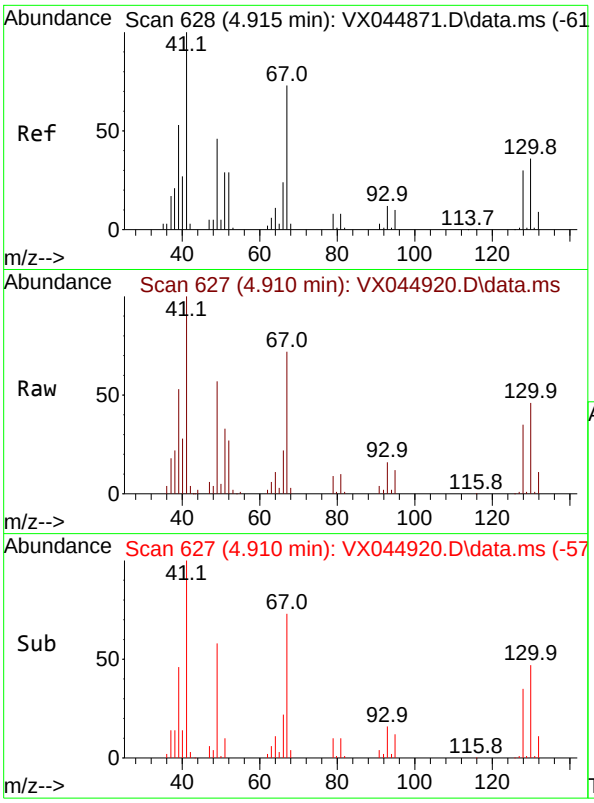


#40
Benzene
Concen: 49.781 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 78 Resp: 309040

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6



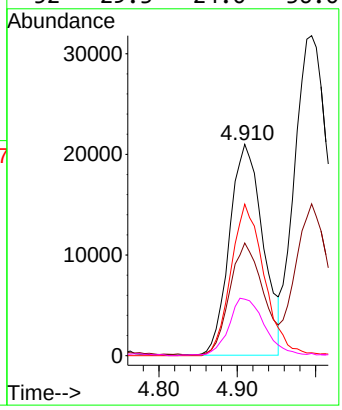


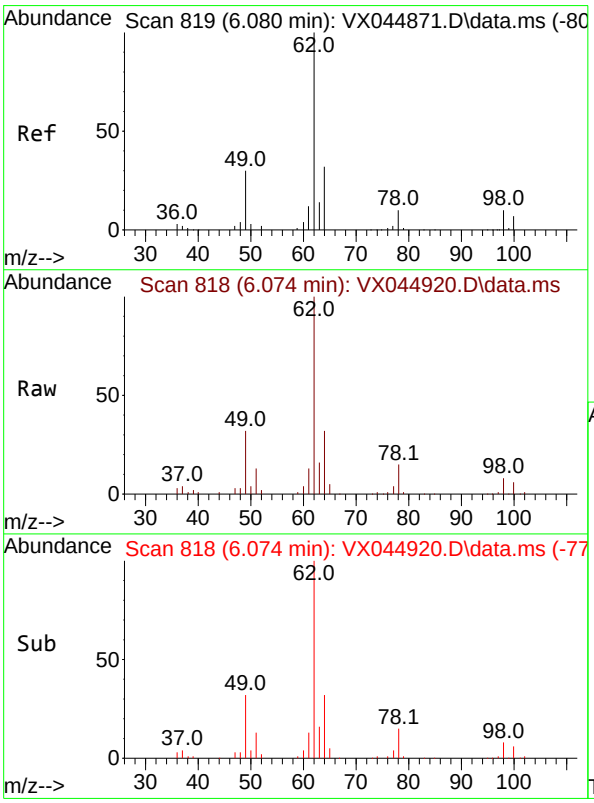
#41
Methacrylonitrile
Concen: 52.708 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 62387

Ion	Ratio	Lower	Upper
41	100		
39	53.1	43.1	64.7
67	72.3	57.0	85.6
52	29.3	24.0	36.0

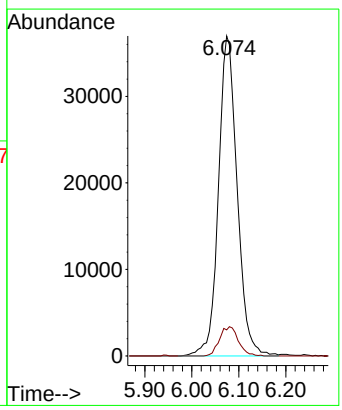


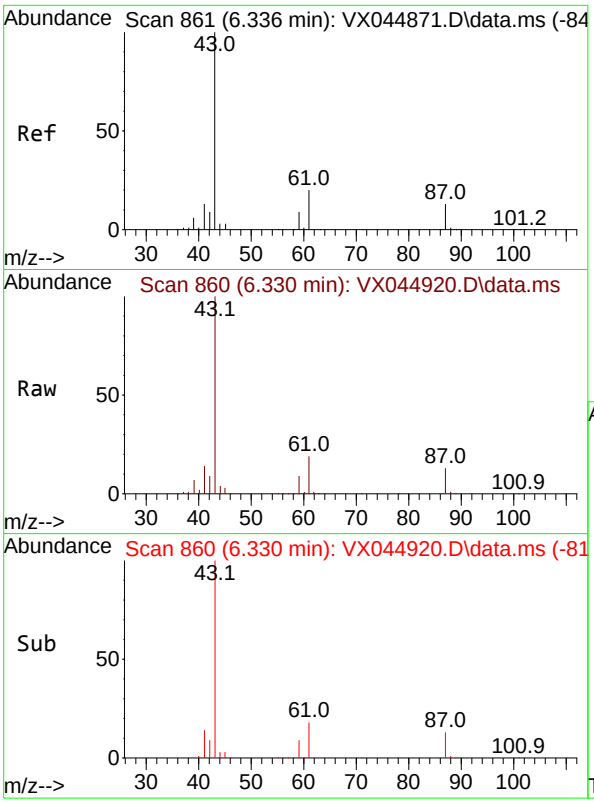


#42
1,2-Dichloroethane
Concen: 51.758 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 62 Resp: 102405

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.4



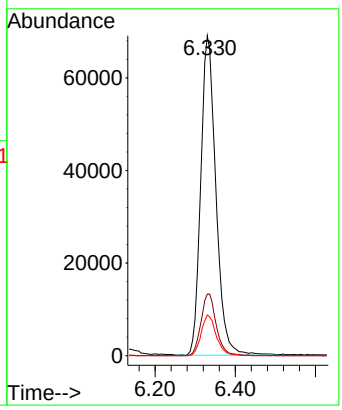


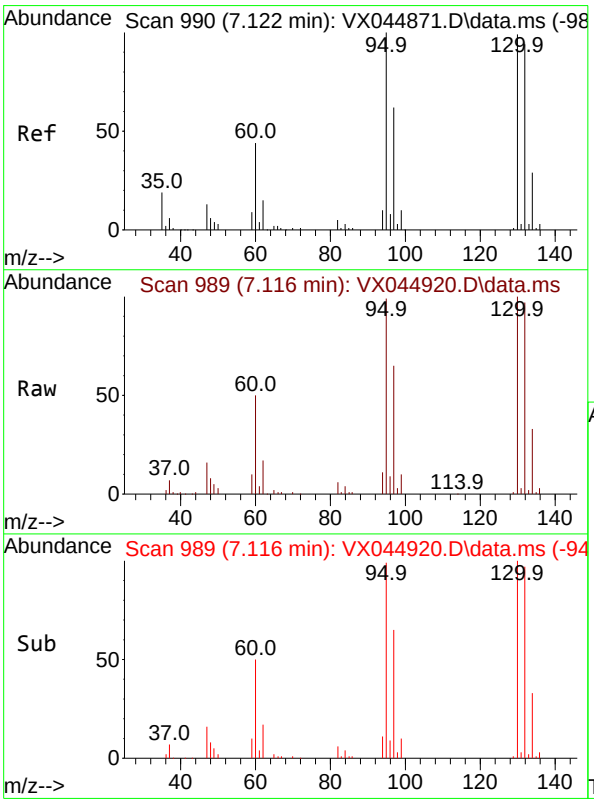
#43
Isopropyl Acetate
Concen: 50.744 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 181205

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.8	23.8
87	12.6	10.0	15.0

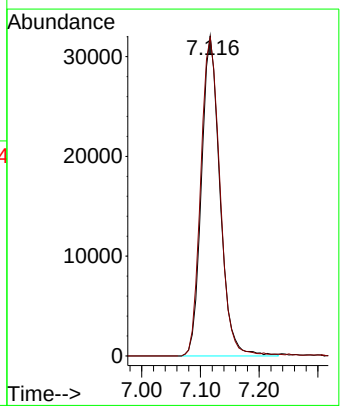


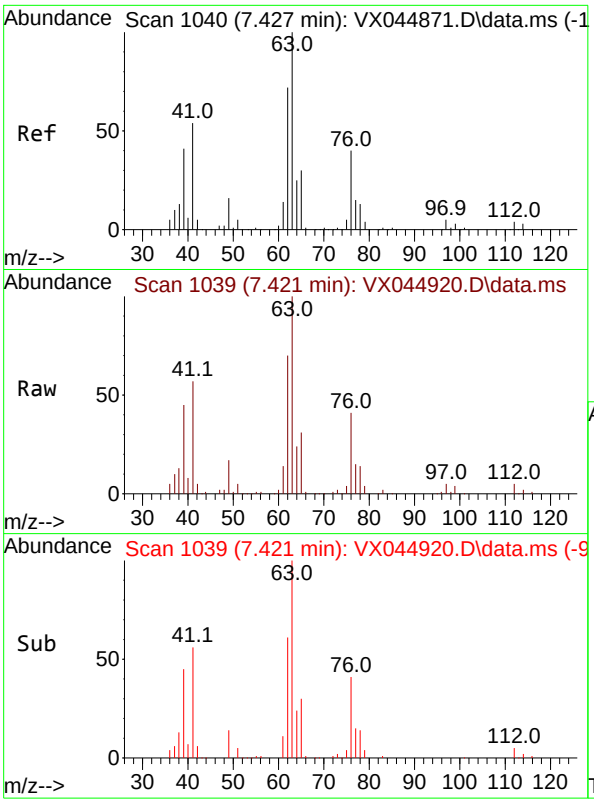


#44
Trichloroethene
Concen: 49.313 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:130 Resp: 69974

Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	202.4



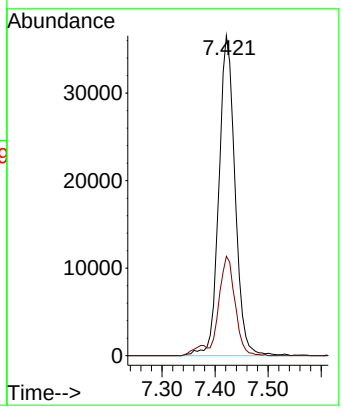


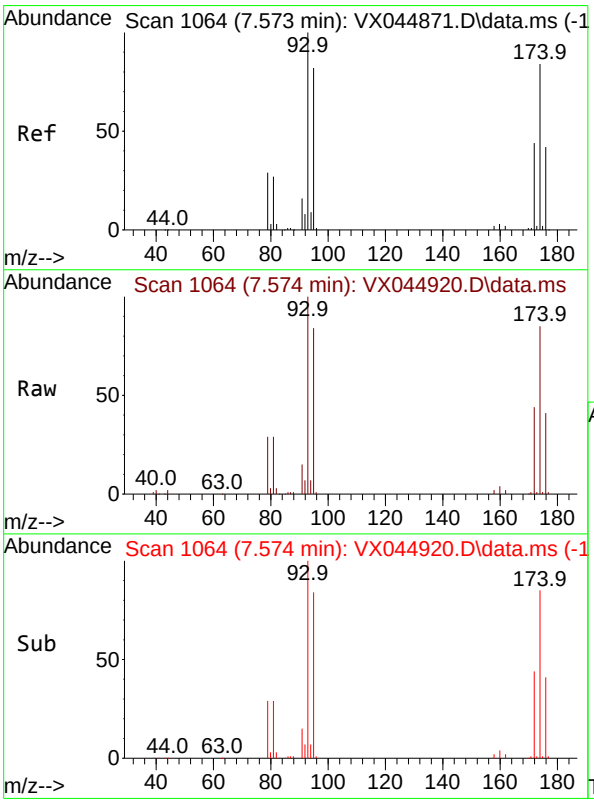
#45
1,2-Dichloropropane
Concen: 50.178 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 77497

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.2	36.4

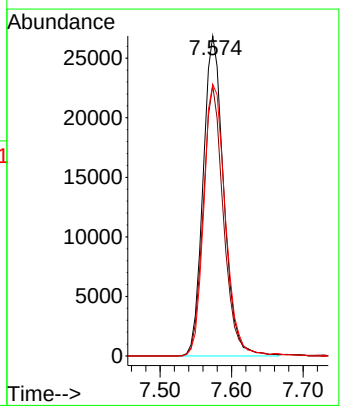


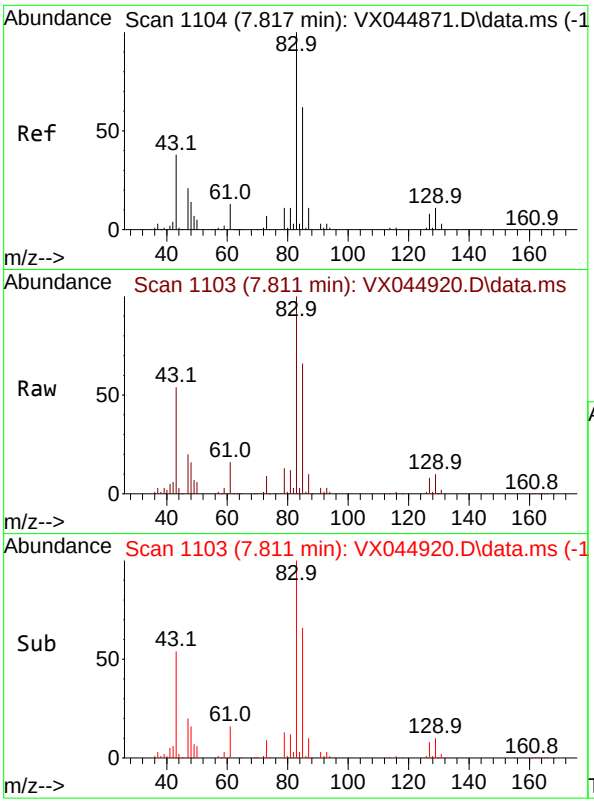


#46
Dibromomethane
Concen: 50.143 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 93 Resp: 53707

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.2	99.4
174	88.4	69.9	104.9



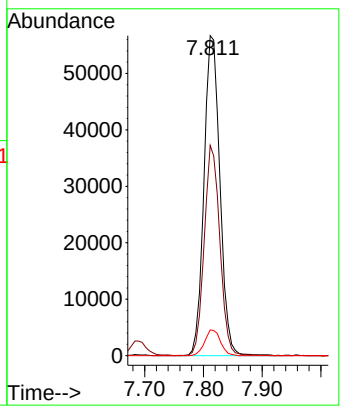


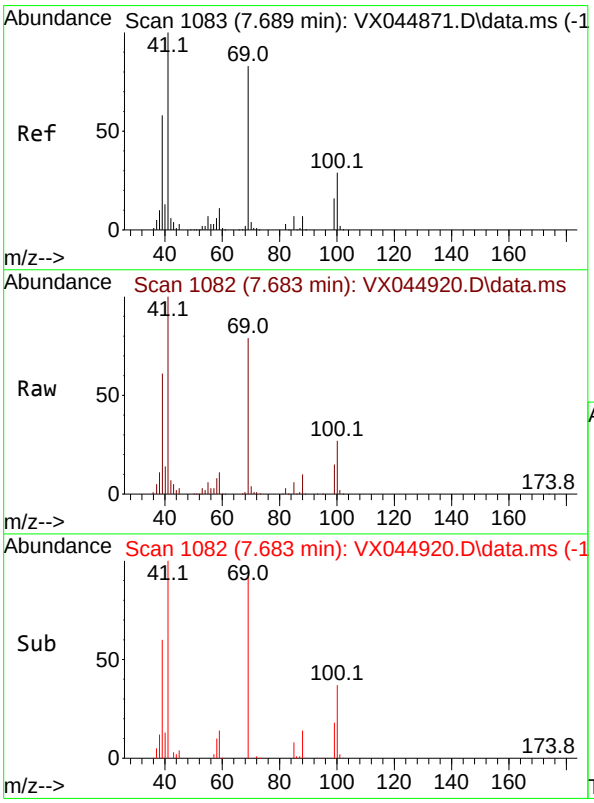
#47
Bromodichloromethane
Concen: 51.579 ug/l
RT: 7.811 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 106971

Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.0	75.0
127	8.1	6.4	9.6

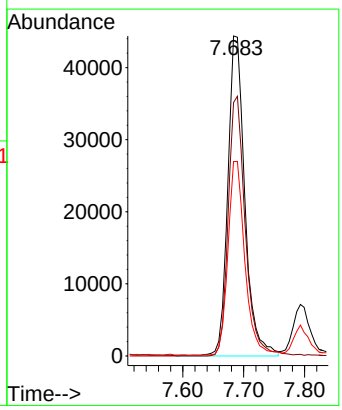


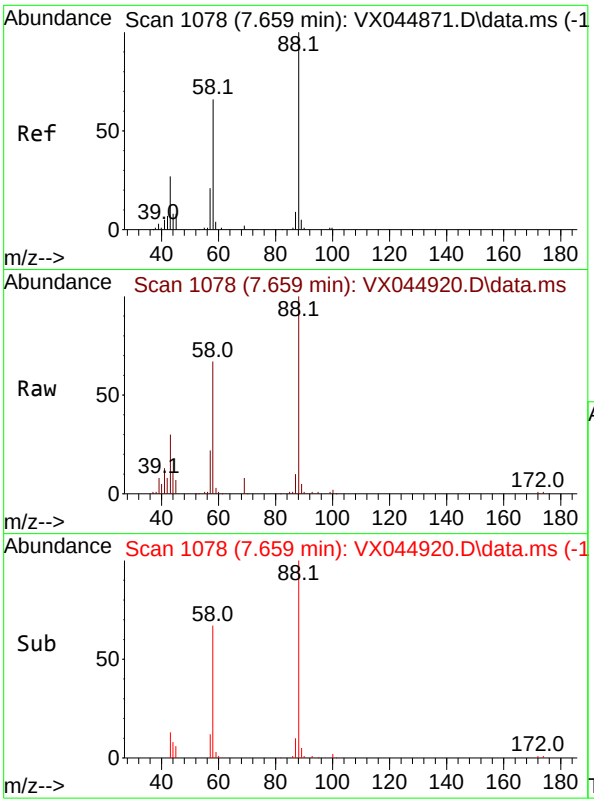


#48
Methyl methacrylate
Concen: 51.258 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 41 Resp: 86305

Ion	Ratio	Lower	Upper
41	100		
69	81.4	65.8	98.8
39	60.2	46.4	69.6



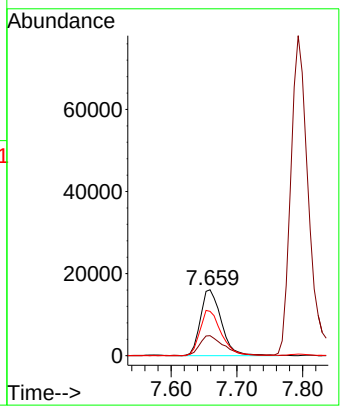


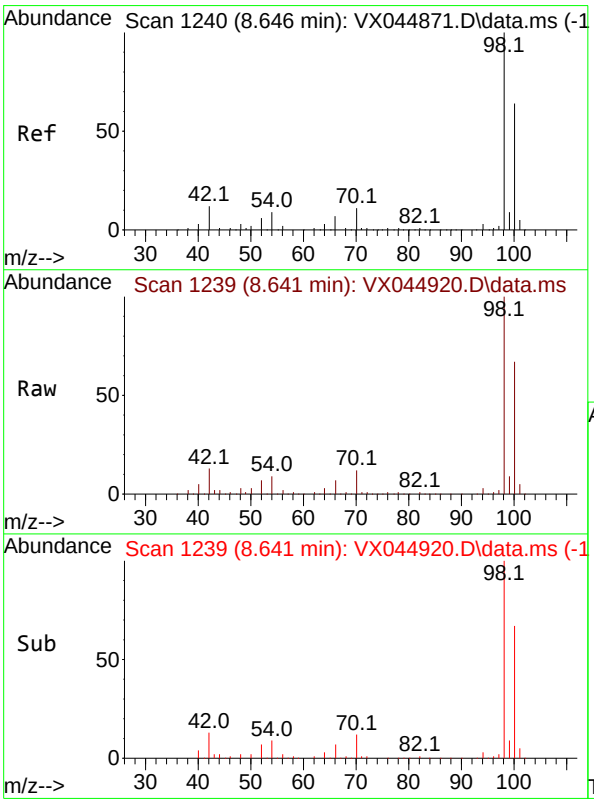
#49
1,4-Dioxane
Concen: 981.246 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 35447

Ion	Ratio	Lower	Upper
88	100		
43	35.6	26.6	39.8
58	69.8	55.9	83.9

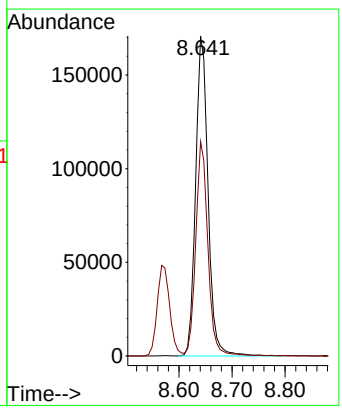


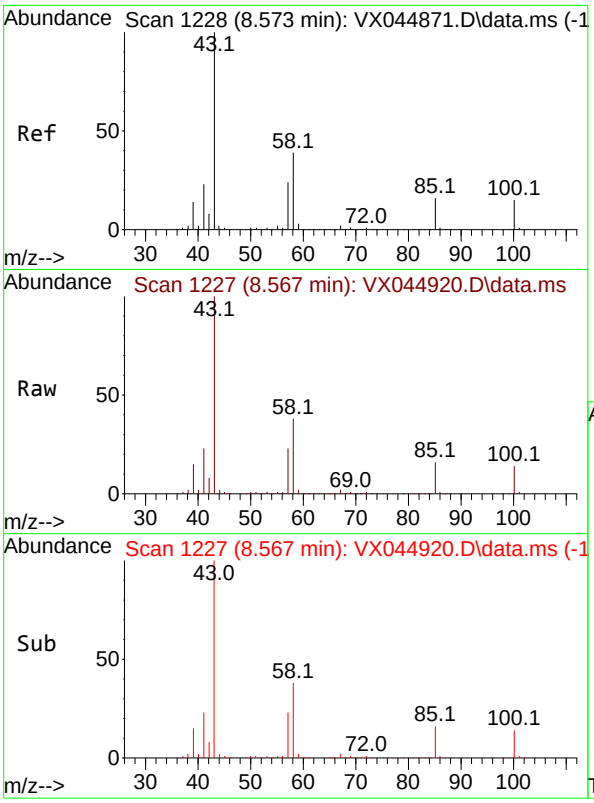


#50
Toluene-d8
Concen: 53.391 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 98 Resp: 278211

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.7	79.1



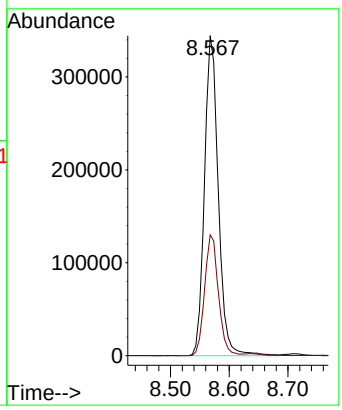


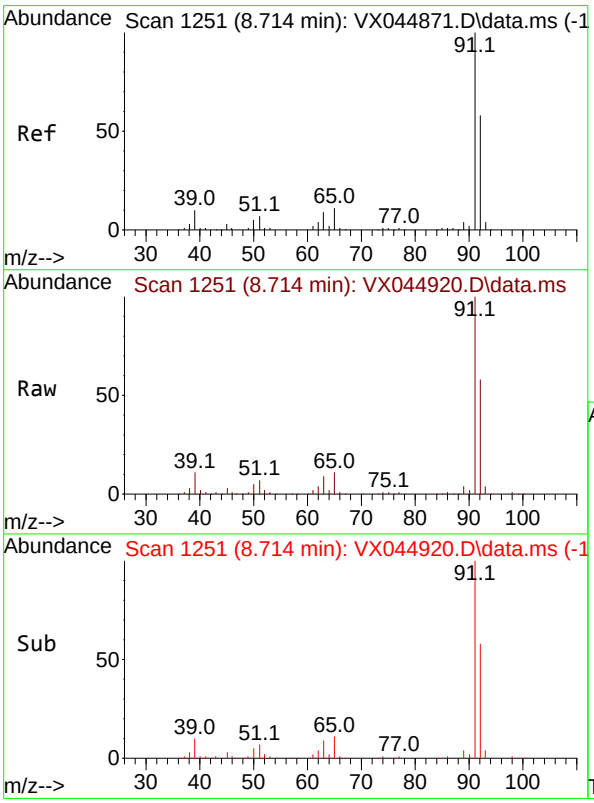
#51
4-Methyl-2-Pentanone
Concen: 259.224 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 562757

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.8	46.2

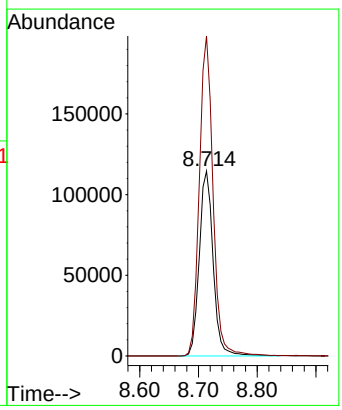


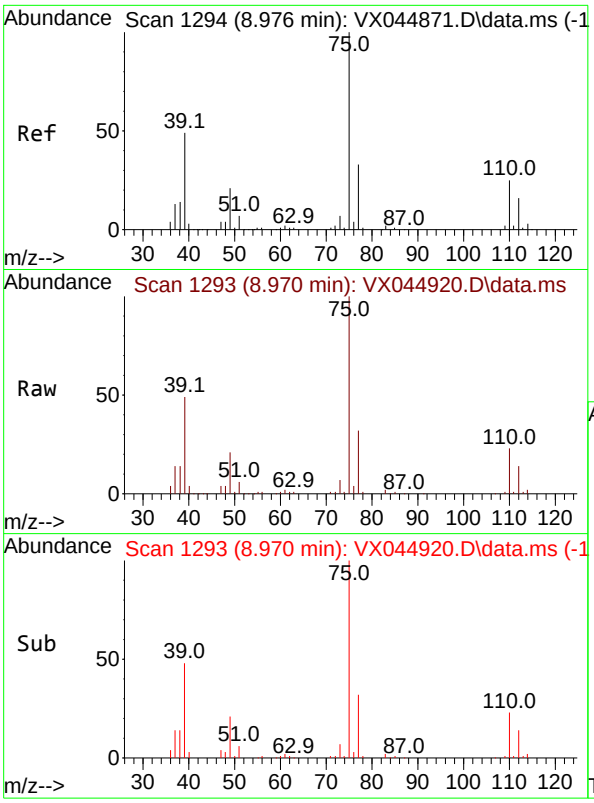


#52
Toluene
Concen: 50.867 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 92 Resp: 188063

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.4	206.2



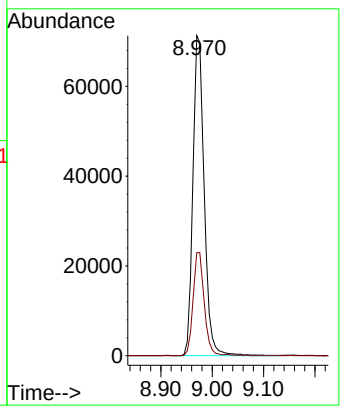


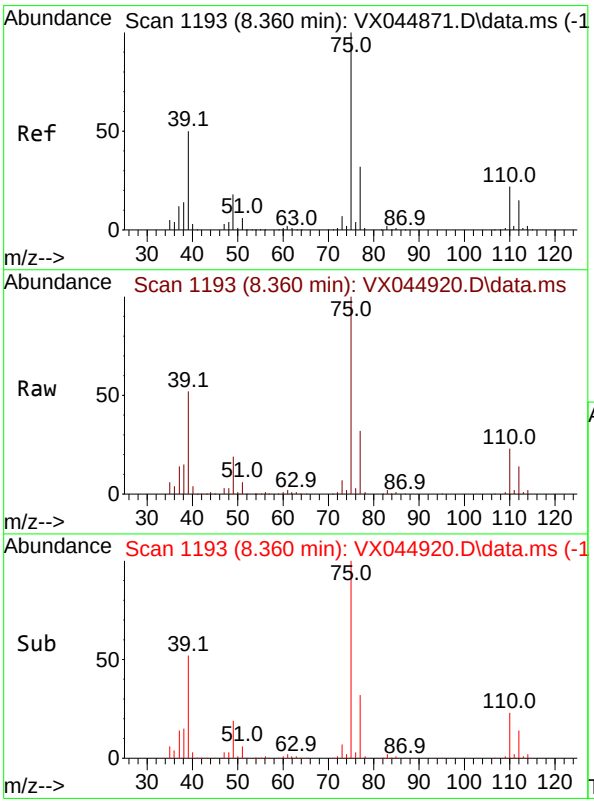
#53
t-1,3-Dichloropropene
Concen: 51.862 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 108842

Ion	Ratio	Lower	Upper
75	100		
77	32.2	26.0	39.0

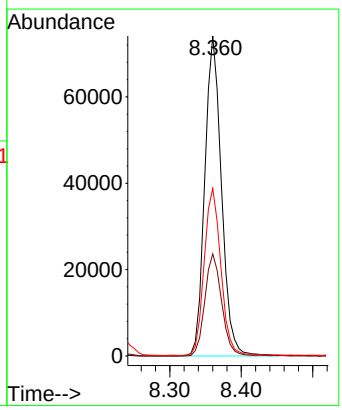


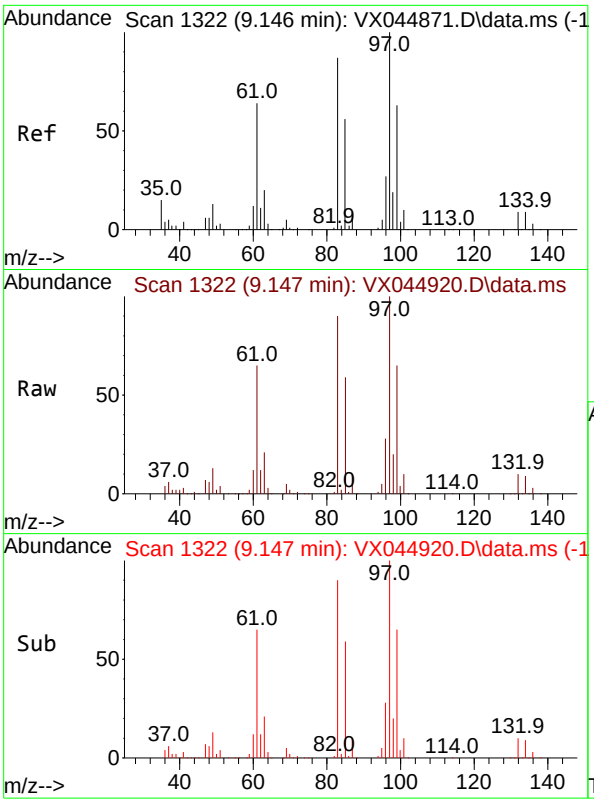


#54
cis-1,3-Dichloropropene
Concen: 51.308 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 120059

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.3	37.9
39	52.2	40.0	60.0



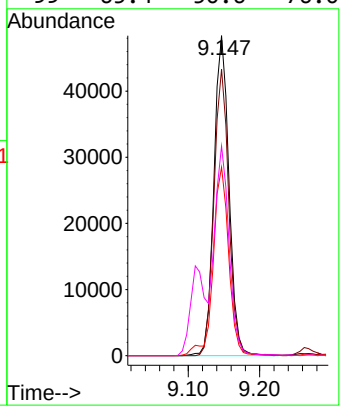


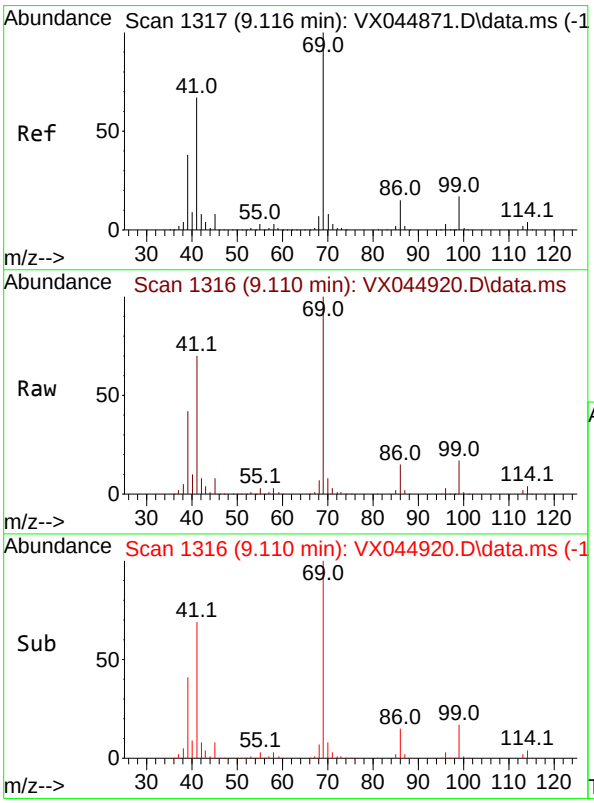
#55
1,1,2-Trichloroethane
Concen: 49.796 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 70772

Ion	Ratio	Lower	Upper
97	100		
83	89.5	69.8	104.6
85	58.9	44.8	67.2
99	65.4	50.6	76.0

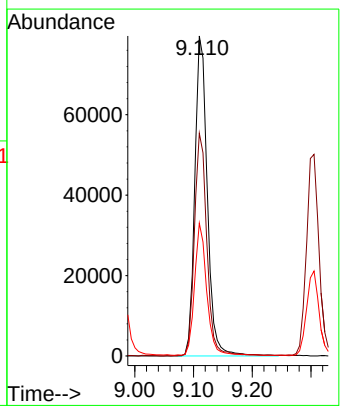


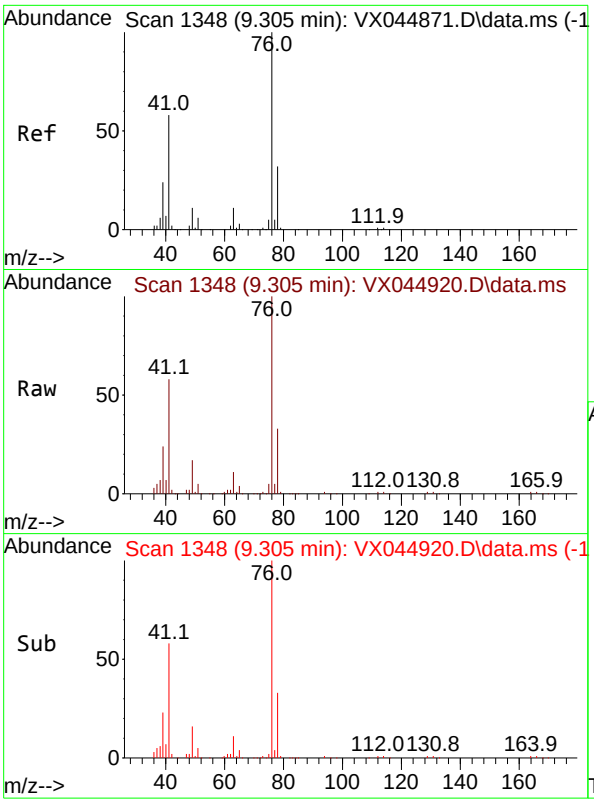


#56
Ethyl methacrylate
Concen: 51.235 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 69 Resp: 117608

Ion	Ratio	Lower	Upper
69	100		
41	69.9	55.2	82.8
39	40.1	30.8	46.2



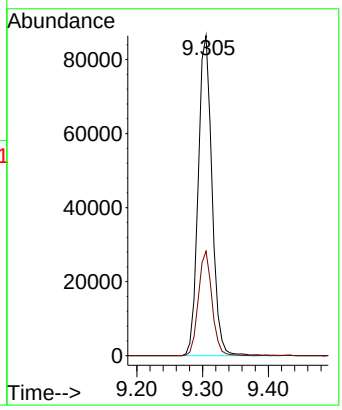


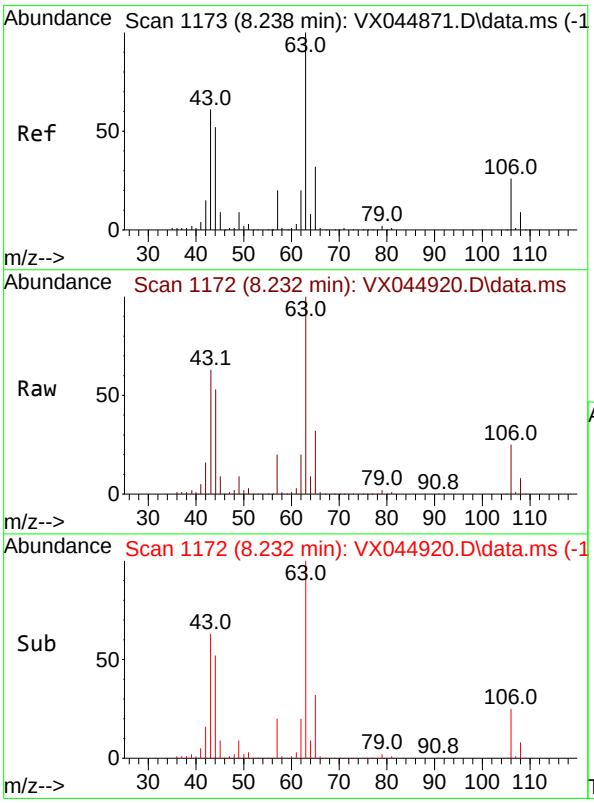
#57
1,3-Dichloropropane
Concen: 50.576 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 125770

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

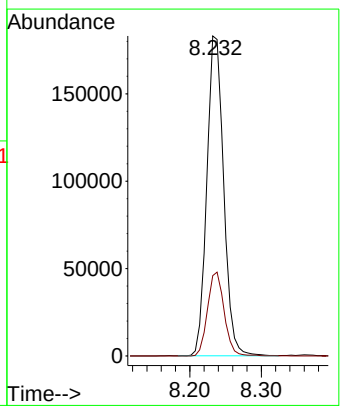


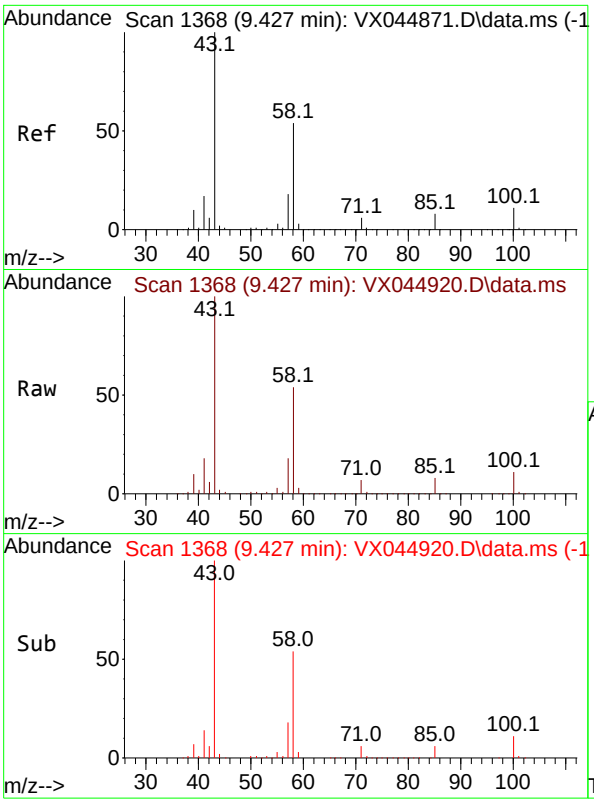


#58
2-Chloroethyl Vinyl ether
Concen: 264.951 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 63 Resp: 298625

Ion	Ratio	Lower	Upper
63	100		
106	25.9	21.3	31.9



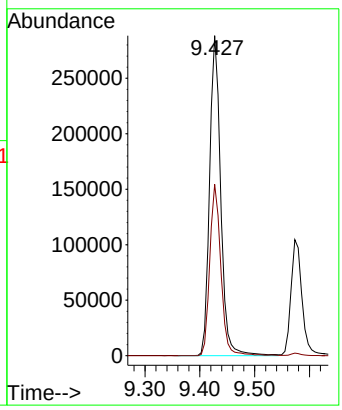


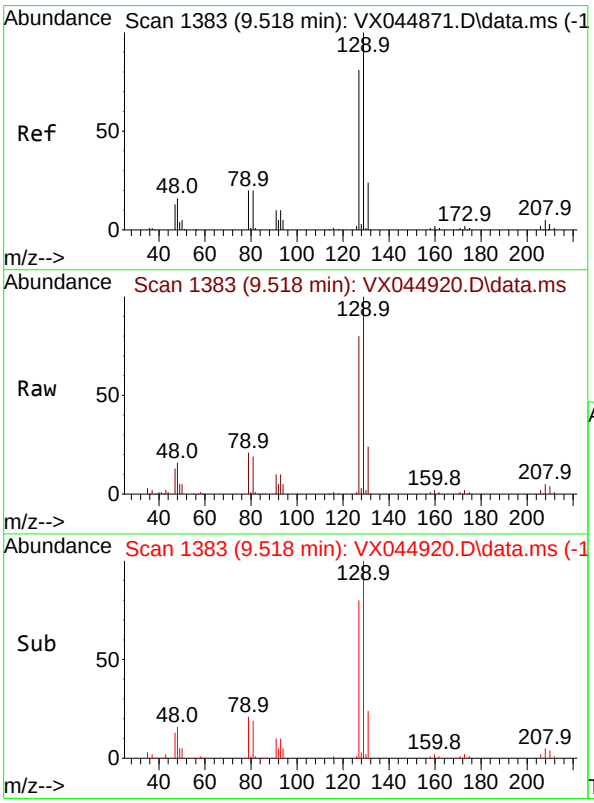
#59
2-Hexanone
Concen: 258.586 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 404473

Ion	Ratio	Lower	Upper
43	100		
58	53.6	27.5	82.4

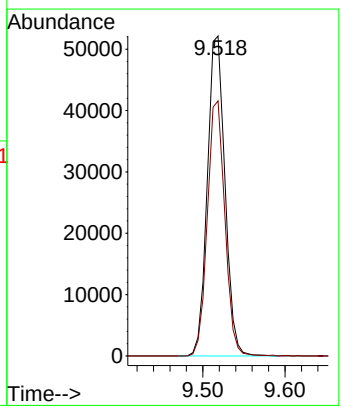


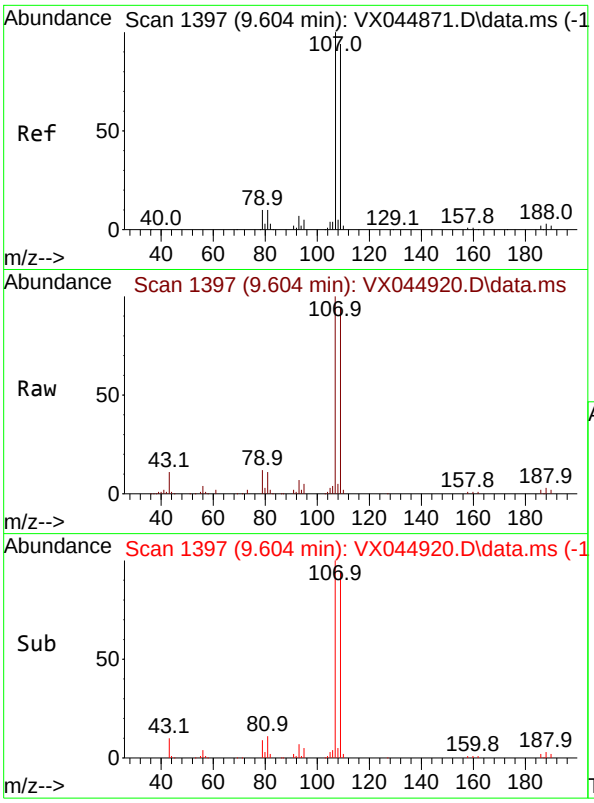


#60
Dibromochloromethane
Concen: 51.129 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:129 Resp: 77715

Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.1	117.3



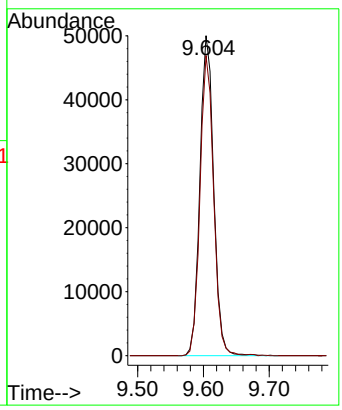


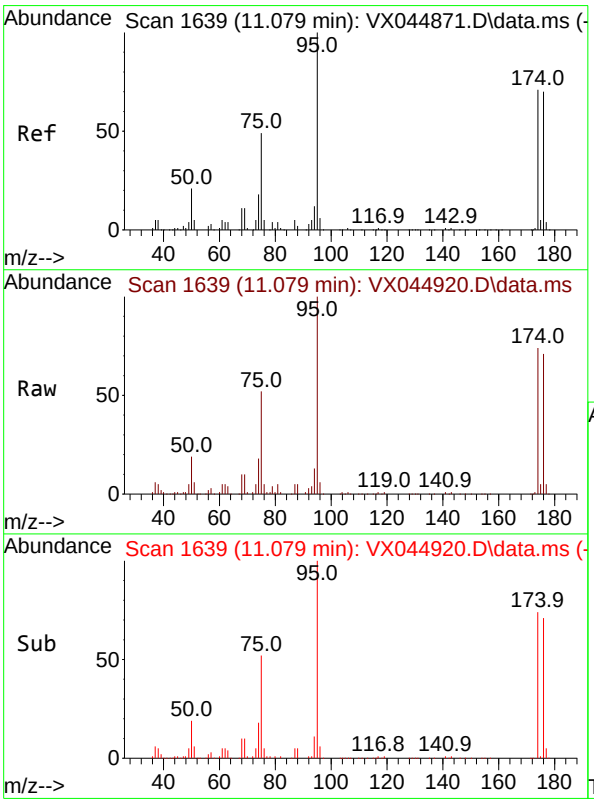
#61
1,2-Dibromoethane
Concen: 50.508 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 72757

Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.9	113.9

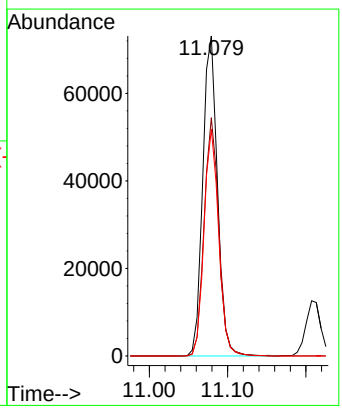


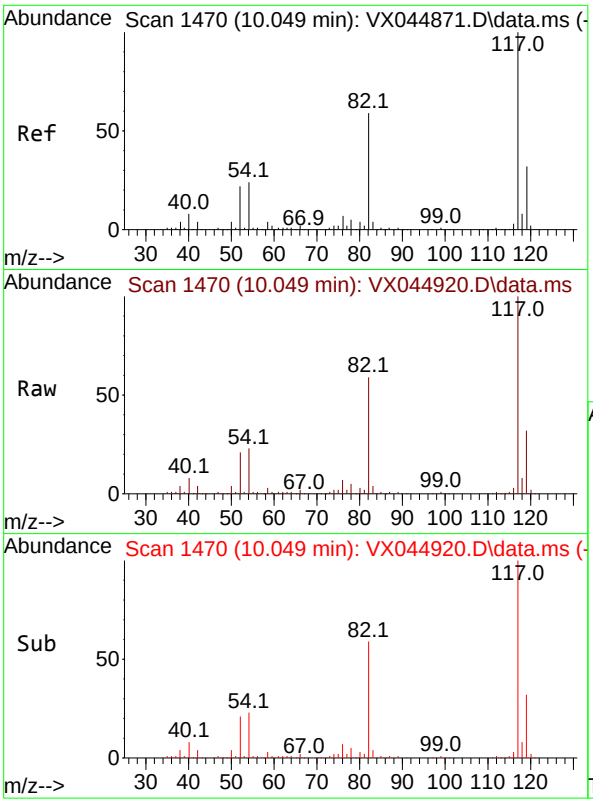


#62
4-Bromofluorobenzene
Concen: 54.089 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 95 Resp: 95016

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	142.6
176	70.7	0.0	141.6



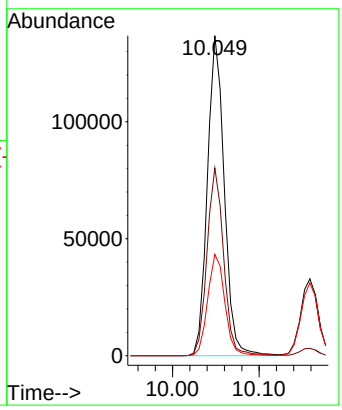


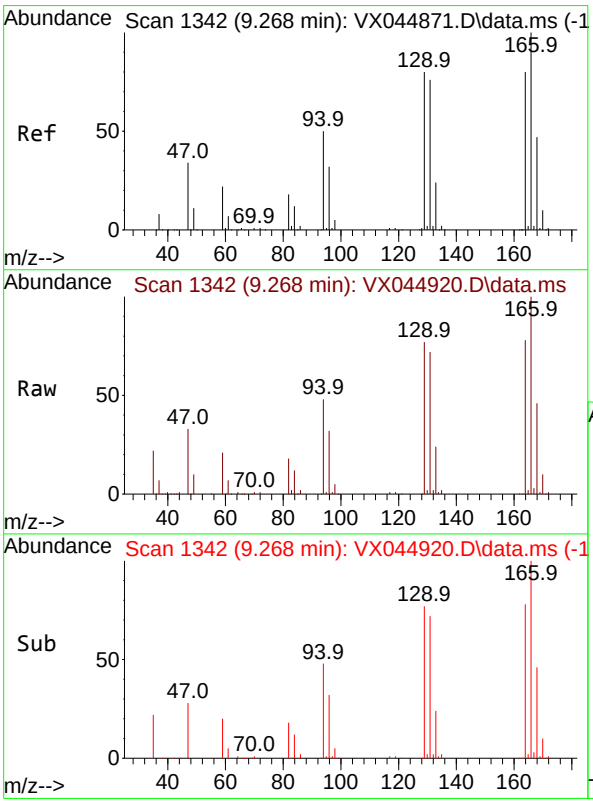
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 185163

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.5	71.3
119	31.6	25.4	38.0

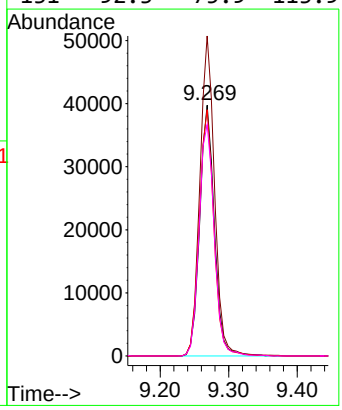


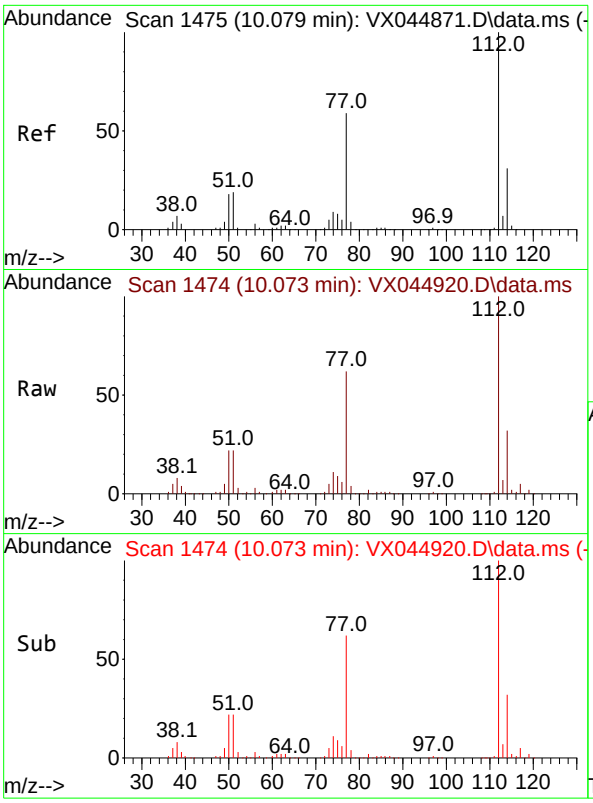


#64
Tetrachloroethene
Concen: 50.651 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:164 Resp: 59146

Ion	Ratio	Lower	Upper
164	100		
166	127.6	100.4	150.6
129	98.2	79.9	119.9
131	92.3	75.9	113.9



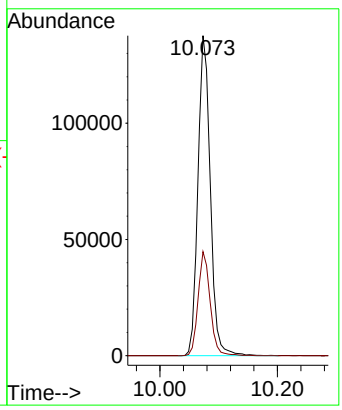


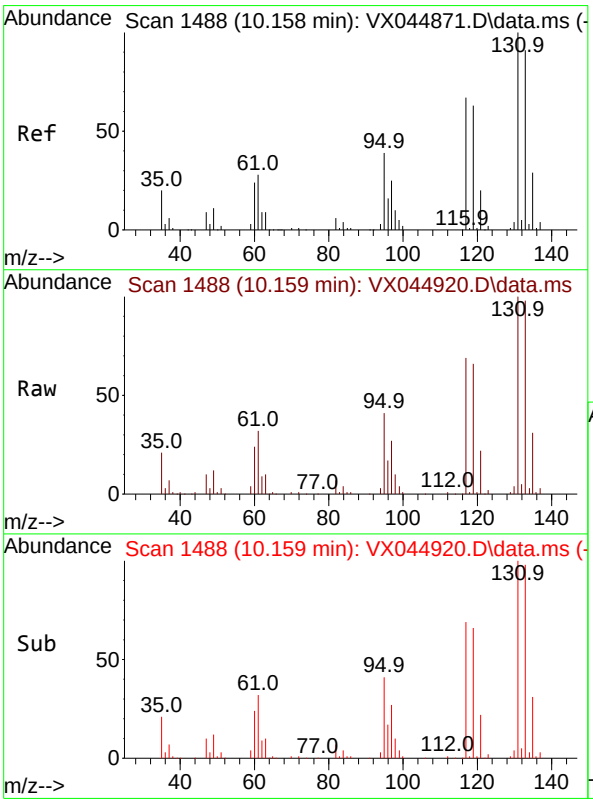
#65
Chlorobenzene
Concen: 50.505 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 200858

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.0	37.6

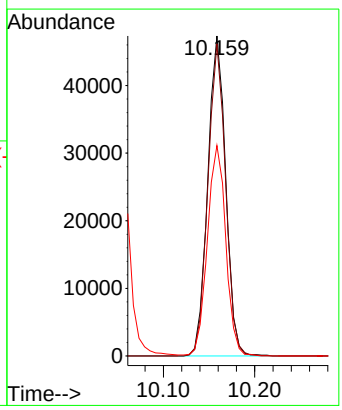


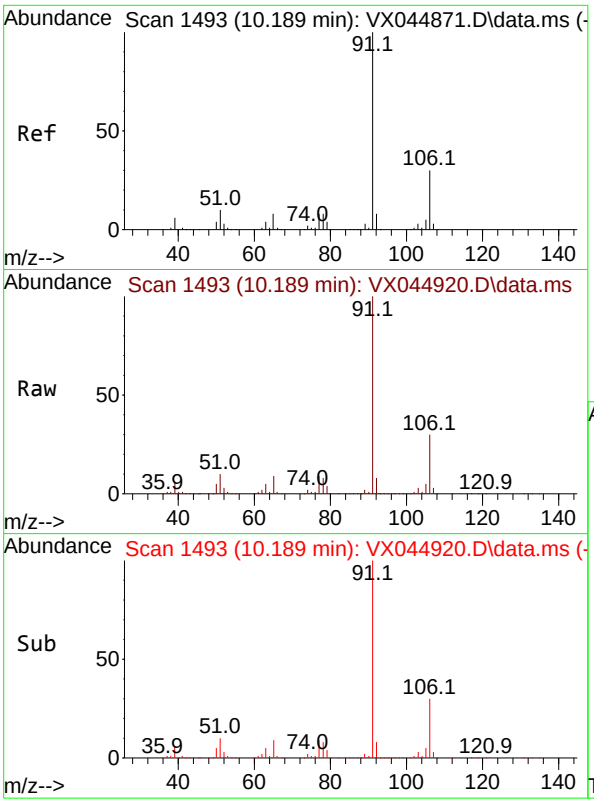


#66
1,1,1,2-Tetrachloroethane
Concen: 50.389 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:131 Resp: 64502

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.1	141.3
119	67.5	33.6	100.6



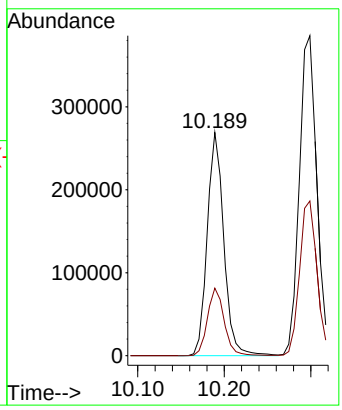


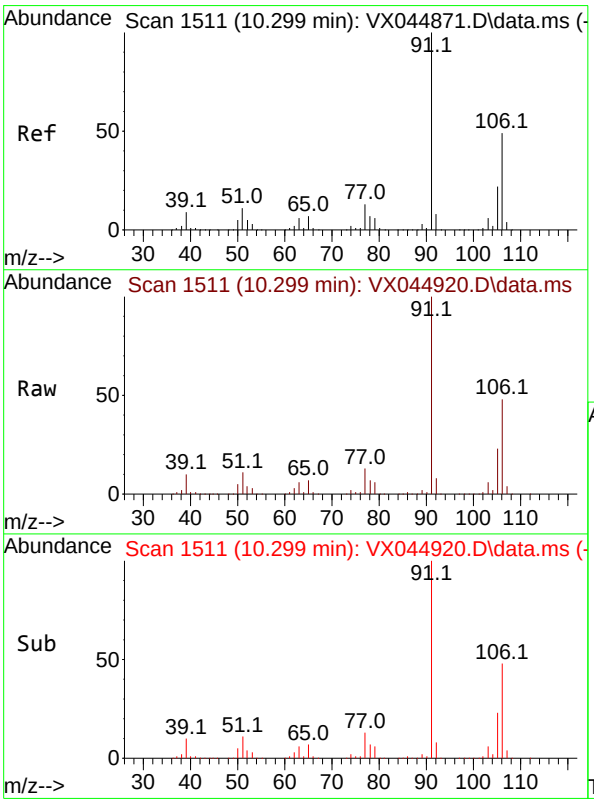
#67
Ethyl Benzene
Concen: 51.021 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 358077

Ion	Ratio	Lower	Upper
91	100		
106	30.2	23.9	35.9

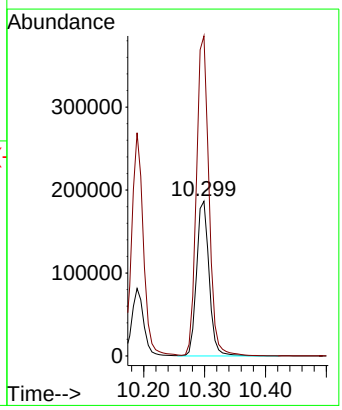


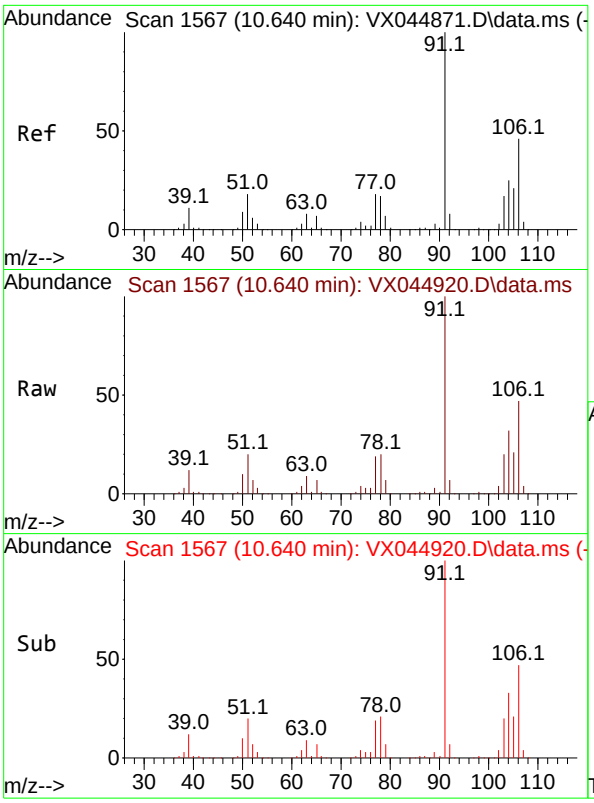


#68
m/p-Xylenes
Concen: 102.304 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:106 Resp: 264855

Ion	Ratio	Lower	Upper
106	100		
91	207.5	164.3	246.5



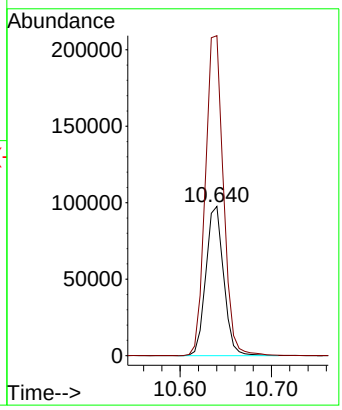


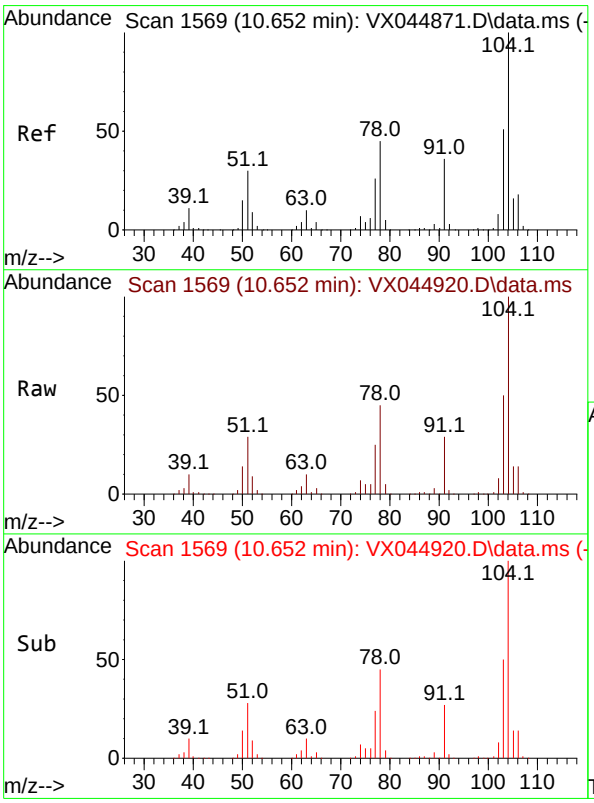
#69
o-Xylene
Concen: 50.681 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 131657

Ion	Ratio	Lower	Upper
106	100		
91	217.4	108.5	325.5

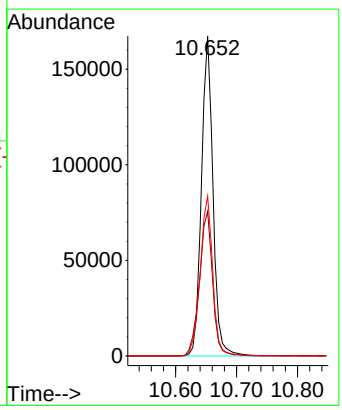


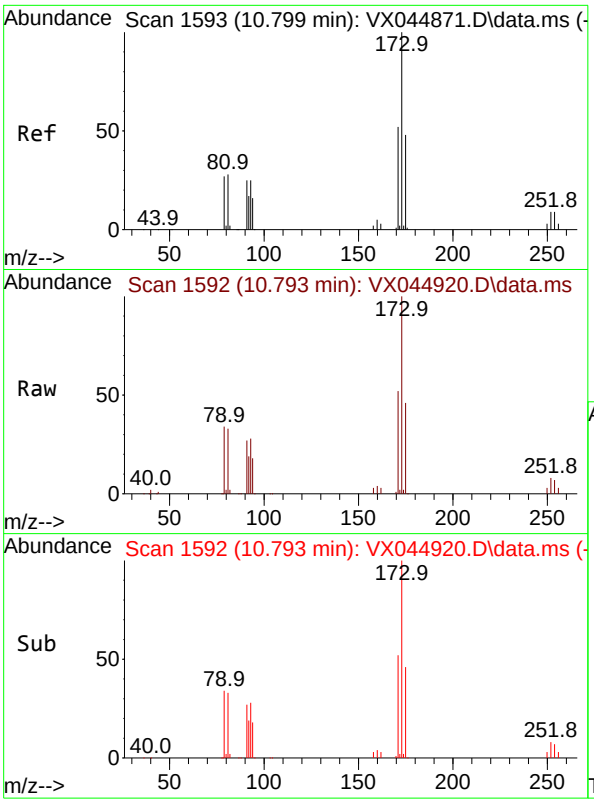


#70
Styrene
Concen: 52.714 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:104 Resp: 220619

Ion	Ratio	Lower	Upper
104	100		
78	51.4	40.5	60.7
103	54.6	43.6	65.4



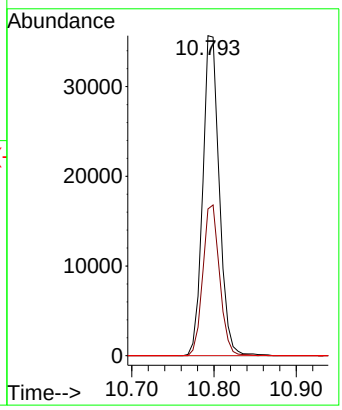


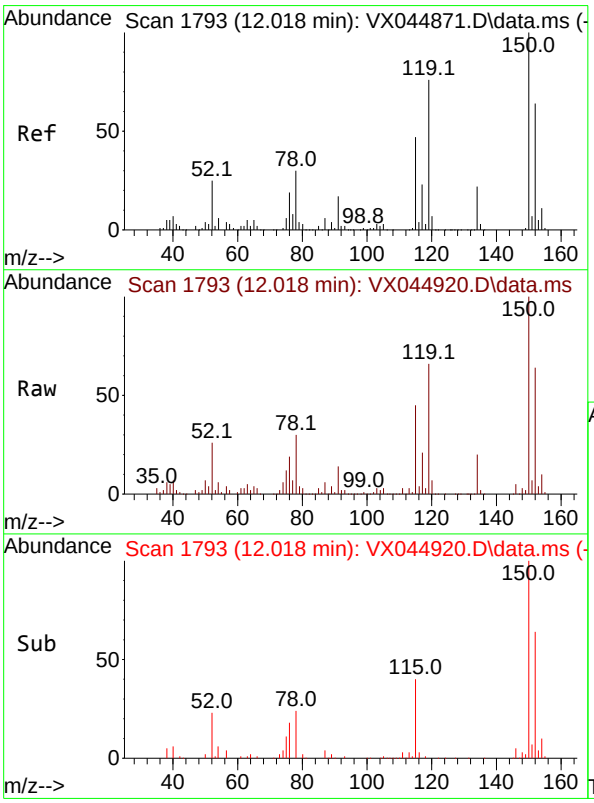
#71
Bromoform
Concen: 52.200 ug/l
RT: 10.793 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 49868

Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.3	72.8
254	0.0	0.0	0.0

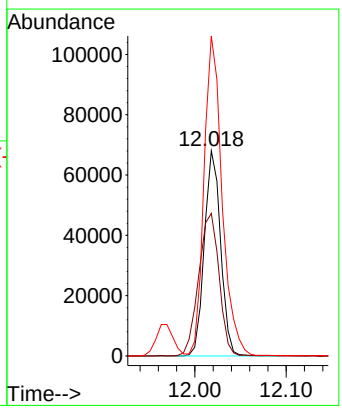


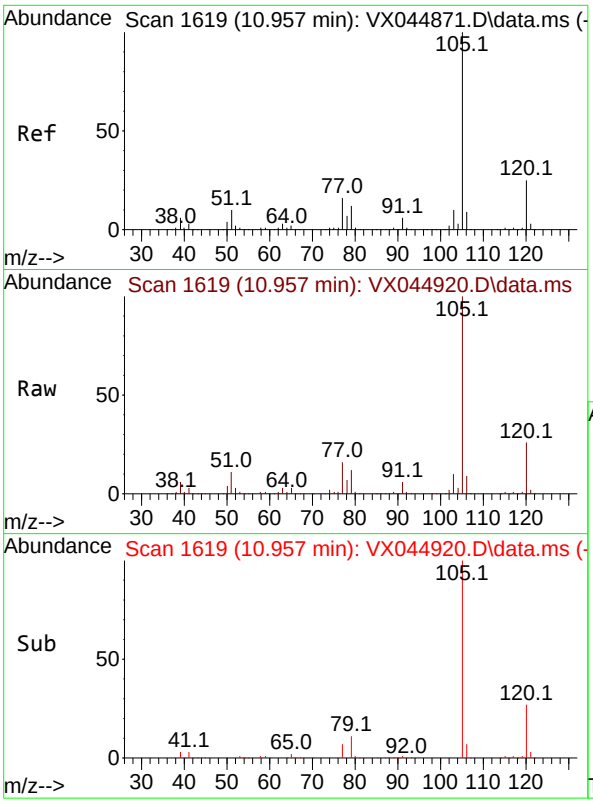


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:152 Resp: 84033

Ion	Ratio	Lower	Upper
152	100		
115	87.6	43.4	130.1
150	173.5	0.0	350.4



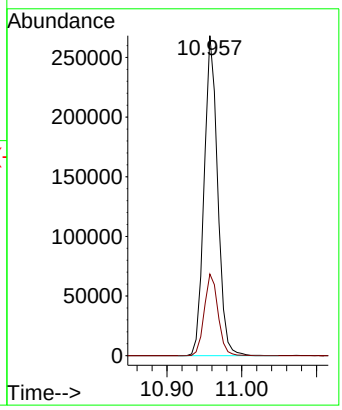


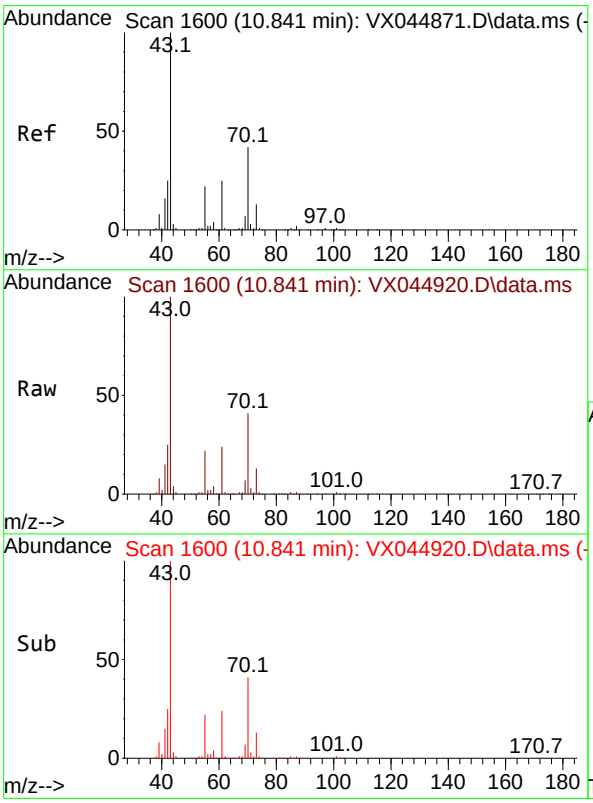
#73
Isopropylbenzene
Concen: 49.681 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 336153

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

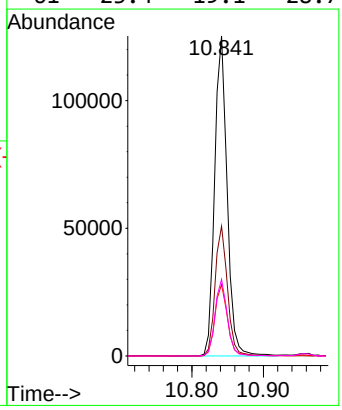


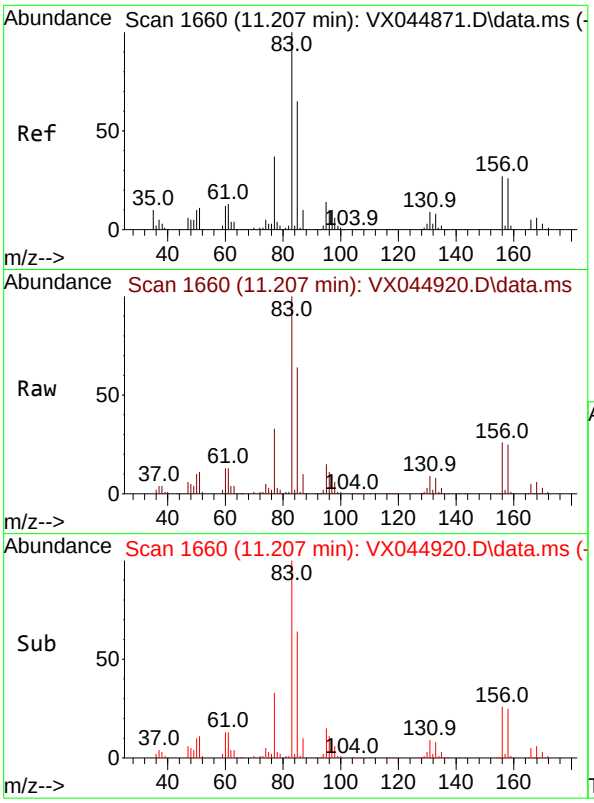


#74
N-amyl acetate
Concen: 49.552 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 43 Resp: 151720

Ion	Ratio	Lower	Upper
43	100		
70	40.3	33.7	50.5
55	22.5	18.6	27.8
61	23.4	19.1	28.7



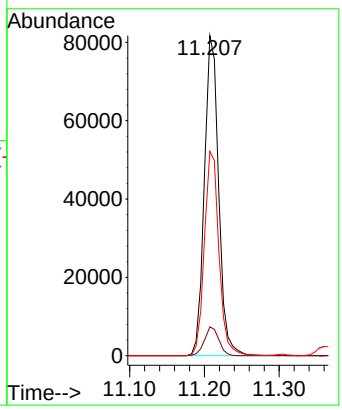


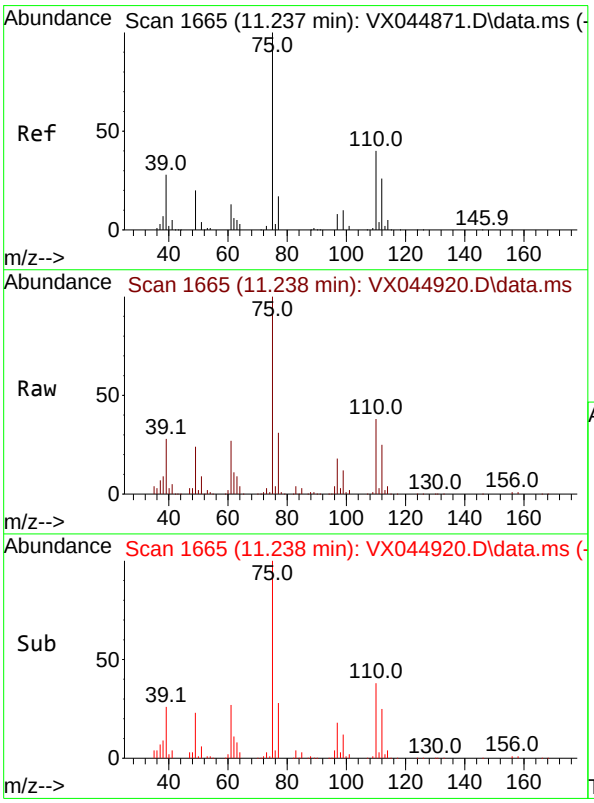
#75
1,1,2,2-Tetrachloroethane
Concen: 46.588 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 108321

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	65.3	32.3	96.8

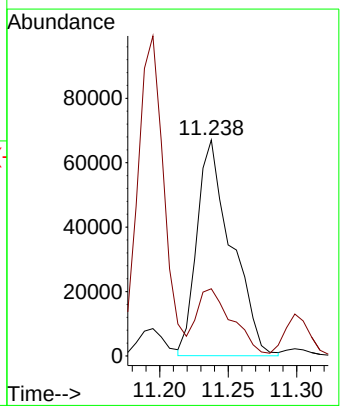


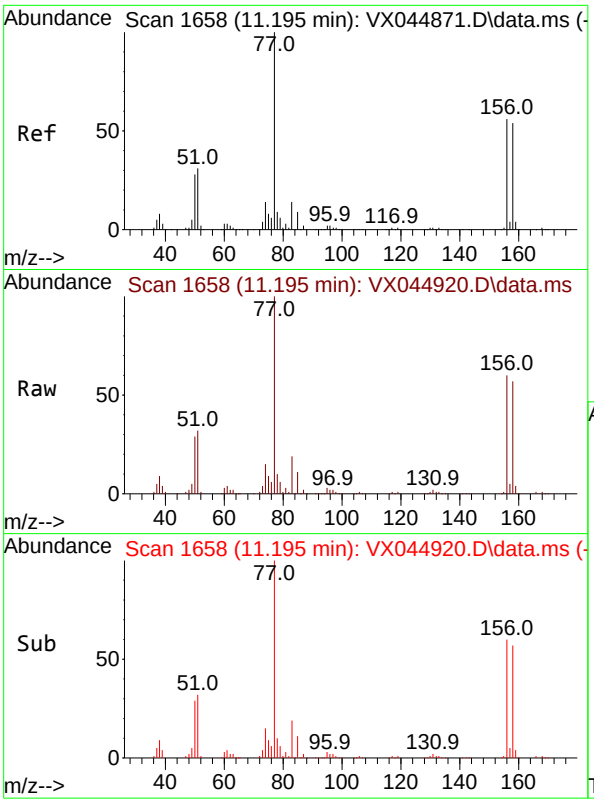


#76
1,2,3-Trichloropropane
Concen: 63.071 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 117510

Ion	Ratio	Lower	Upper
75	100		
77	32.1	21.9	65.7



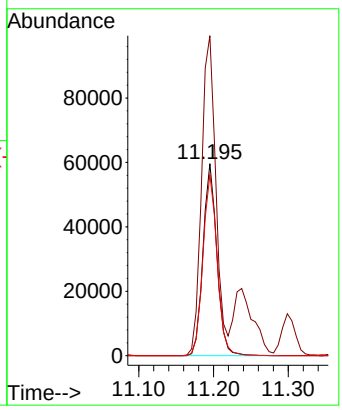


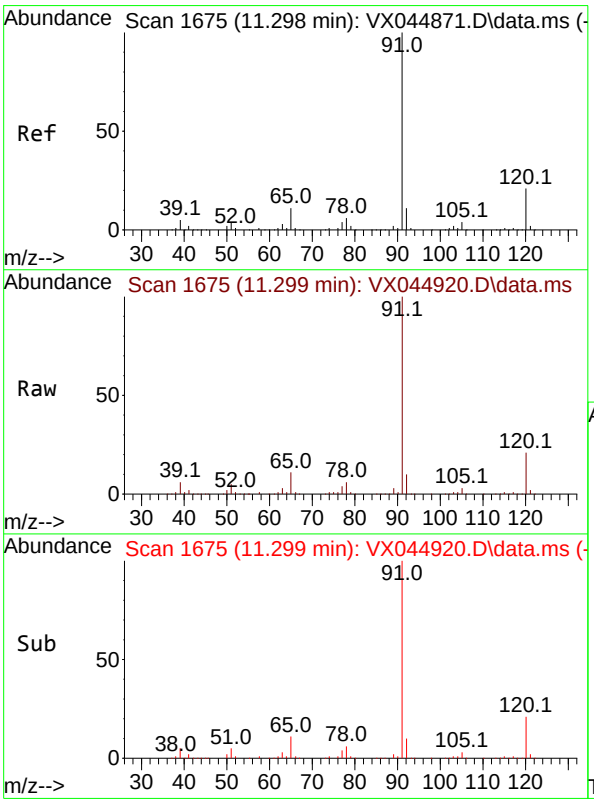
#77
Bromobenzene
Concen: 49.976 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 76664

Ion	Ratio	Lower	Upper
156	100		
77	172.4	88.4	265.3
158	96.3	48.4	145.2

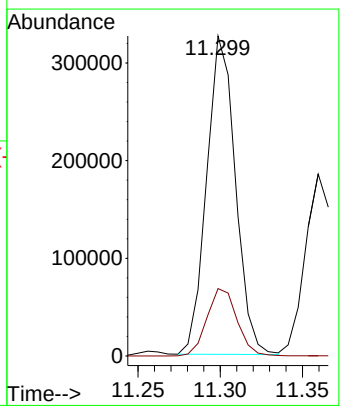


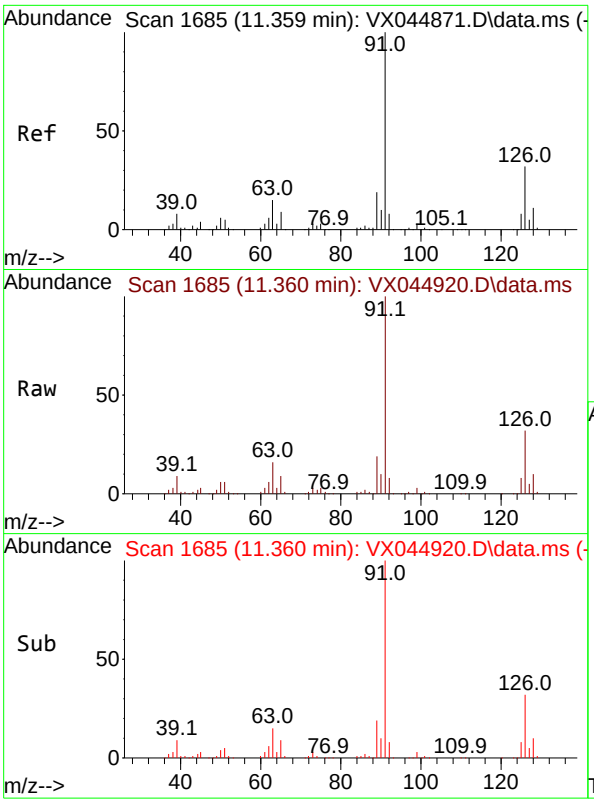


#78
n-propylbenzene
Concen: 50.880 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 91 Resp: 397362

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



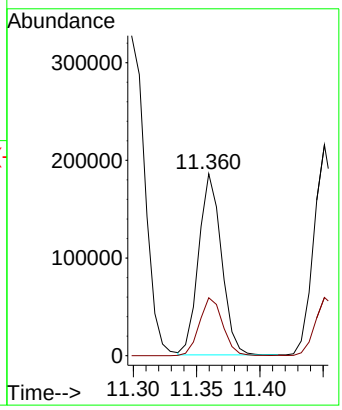


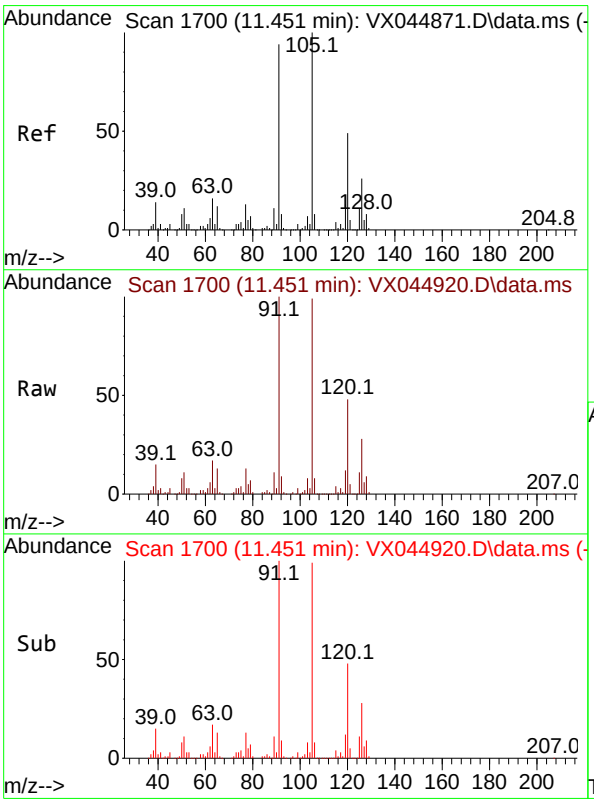
#79
2-Chlorotoluene
Concen: 48.568 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 233123

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.2	48.6

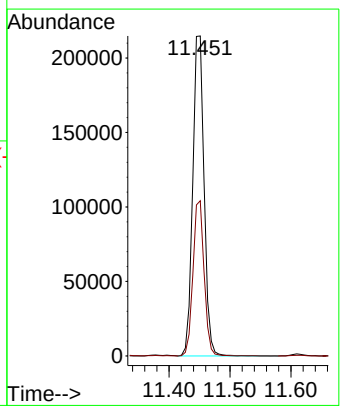


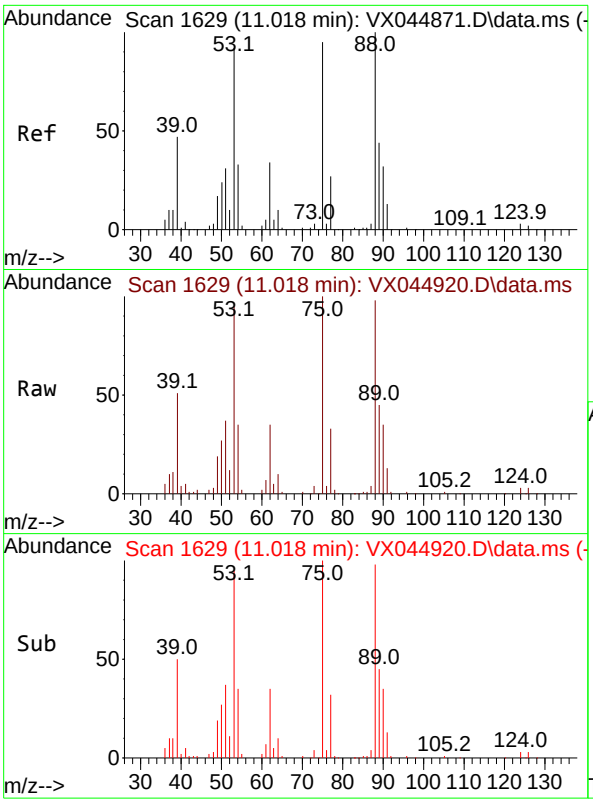


#80
1,3,5-Trimethylbenzene
Concen: 50.419 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:105 Resp: 276841

Ion	Ratio	Lower	Upper
105	100		
120	47.8	24.0	72.0



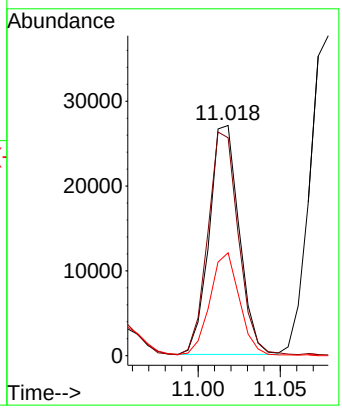


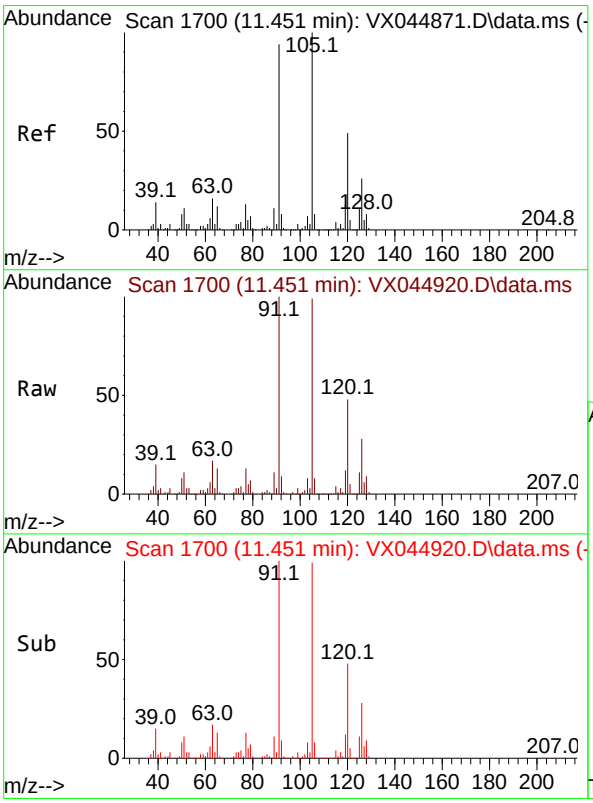
#81
trans-1,4-Dichloro-2-butene
Concen: 47.260 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 34230

Ion	Ratio	Lower	Upper
75	100		
53	99.5	78.0	117.0
89	44.8	36.6	54.8

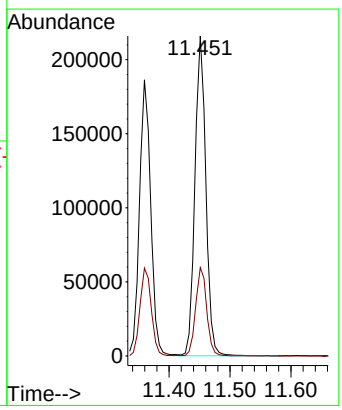


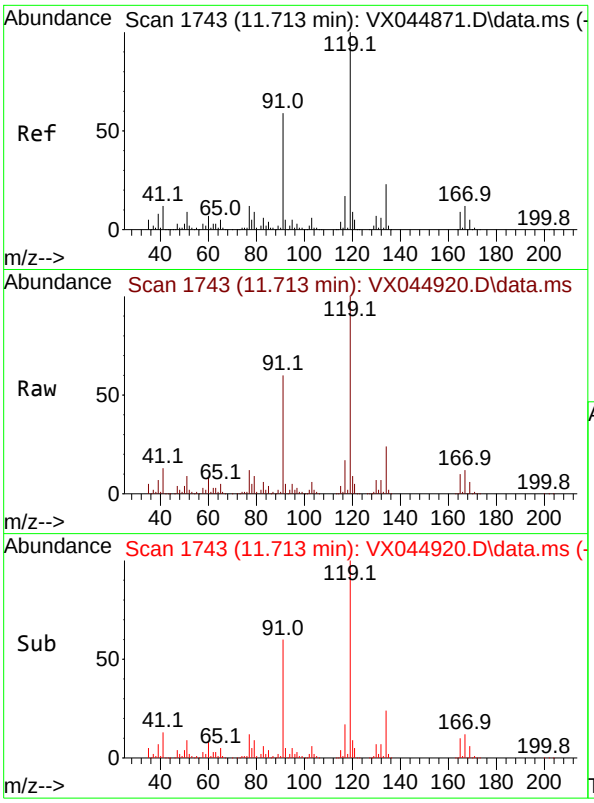


#82
4-Chlorotoluene
Concen: 50.585 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 91 Resp: 268620

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.2	42.6



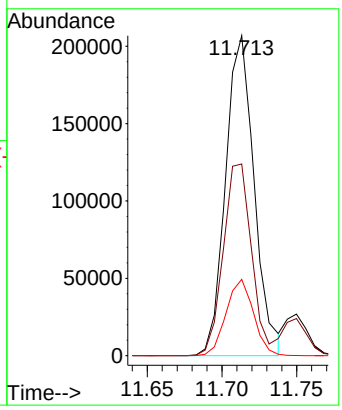


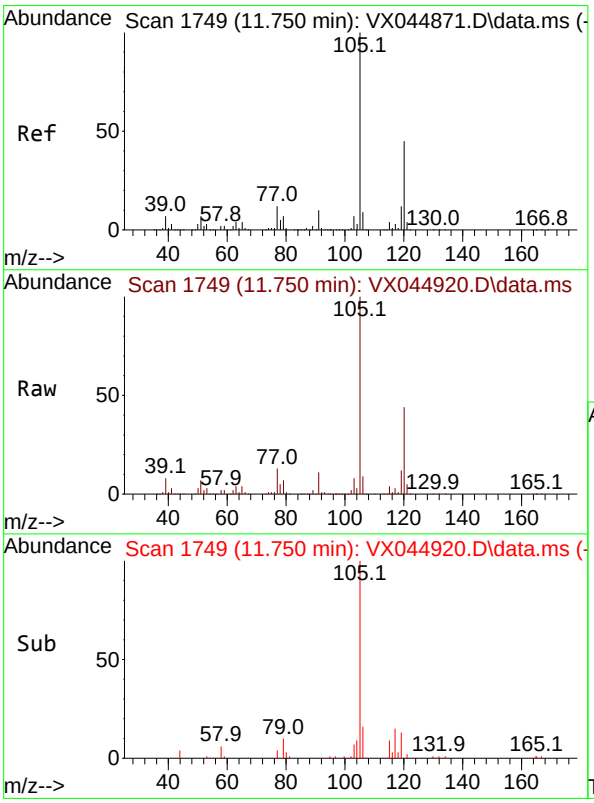
#83
tert-Butylbenzene
Concen: 49.664 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 275866

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.1	87.4
134	22.8	11.5	34.5

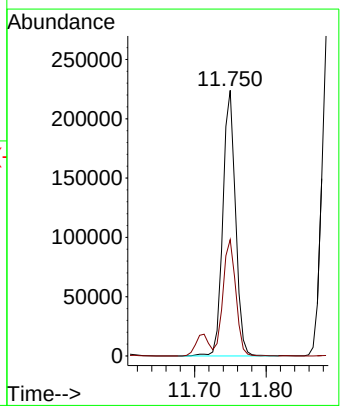


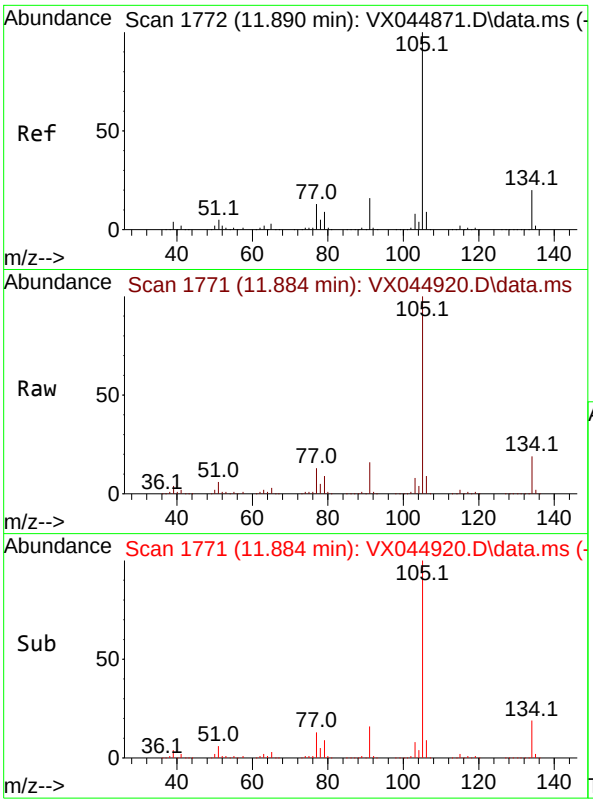


#84
1,2,4-Trimethylbenzene
Concen: 50.841 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:105 Resp: 275526

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.4	67.0



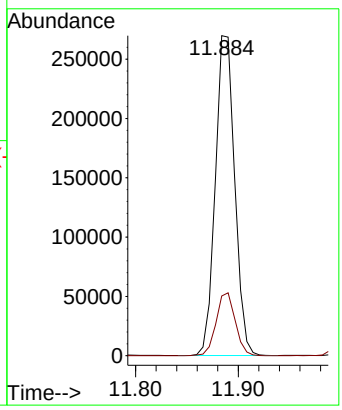


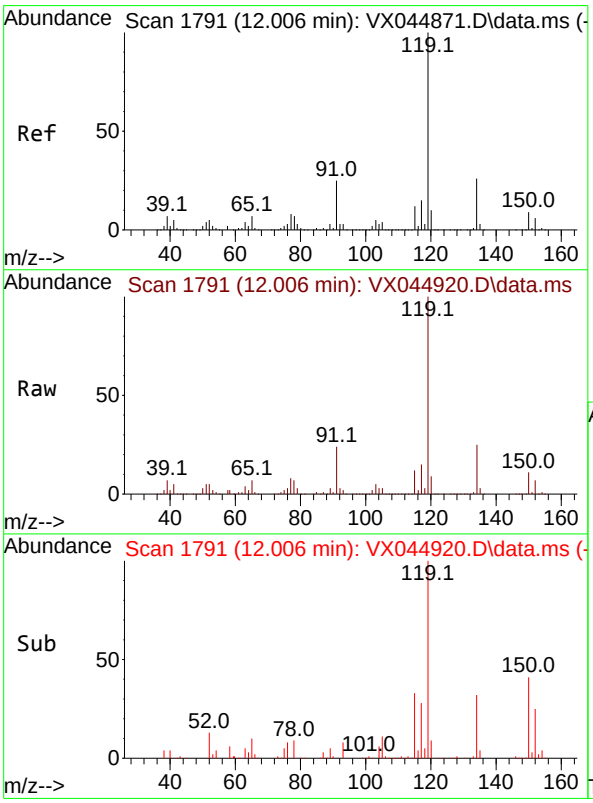
#85
sec-Butylbenzene
Concen: 51.270 ug/l
RT: 11.884 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 352655

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.3

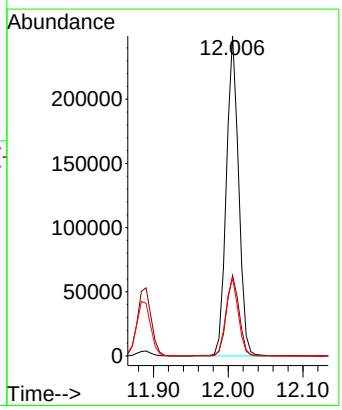


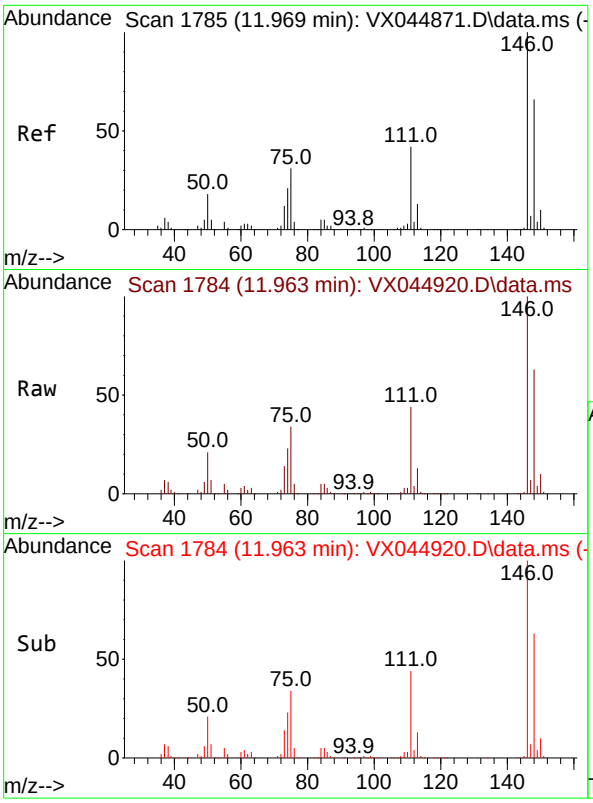


#86
p-Isopropyltoluene
Concen: 51.626 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:119 Resp: 285566

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	24.8	12.1	36.3



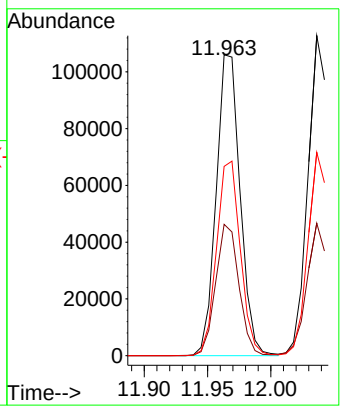


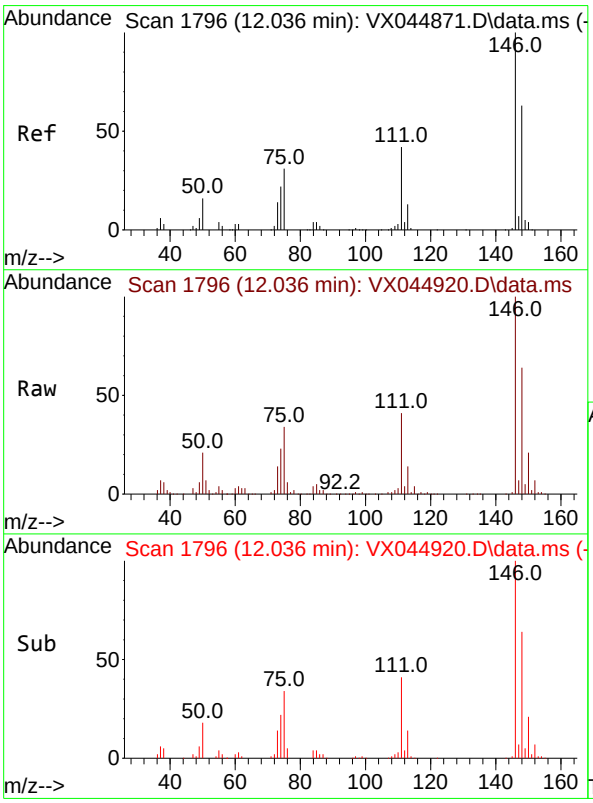
#87
1,3-Dichlorobenzene
Concen: 49.394 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 139339

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	64.4	32.5	97.5

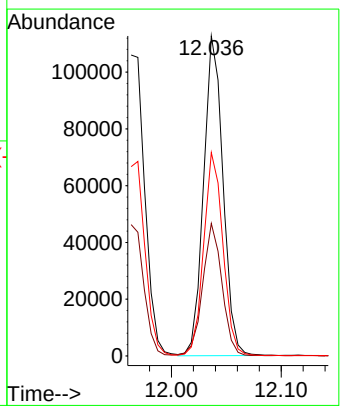


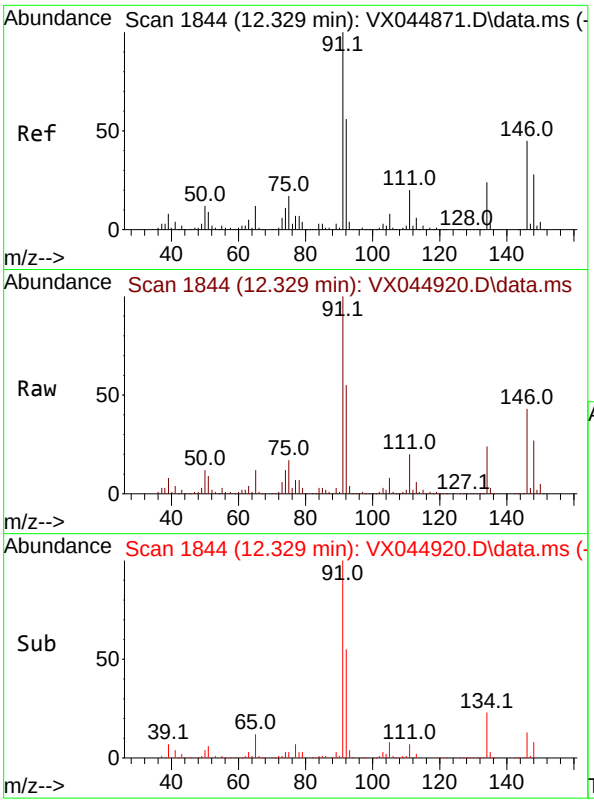


#88
1,4-Dichlorobenzene
Concen: 48.539 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:146 Resp: 138443

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.4	61.3
148	63.3	32.0	96.0



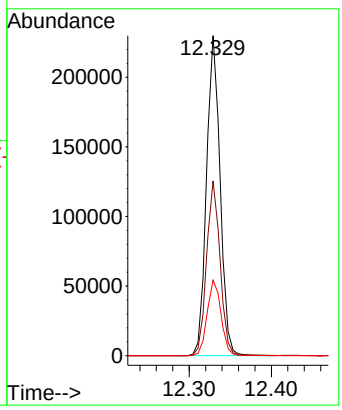


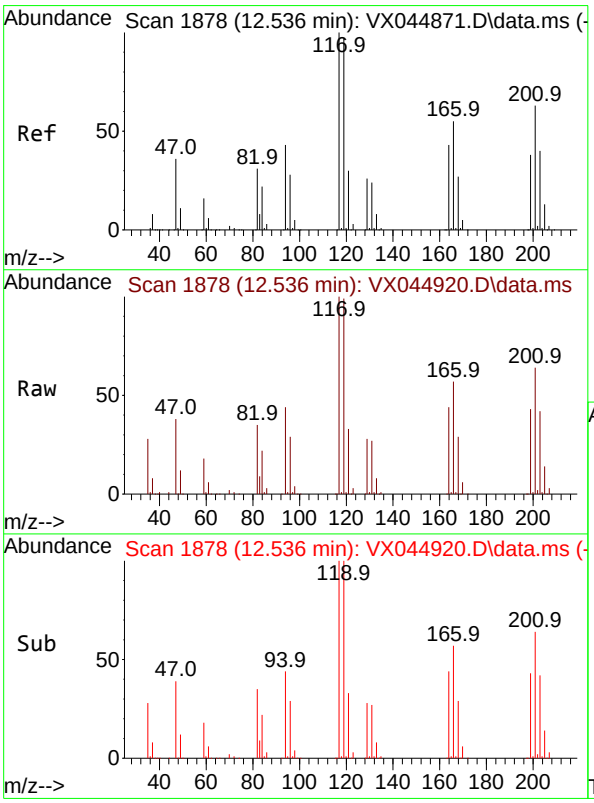
#89
n-Butylbenzene
Concen: 53.945 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 263985

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.1	12.1	36.3

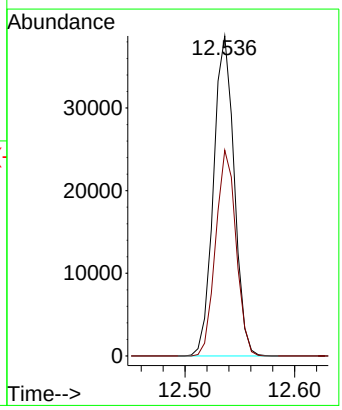


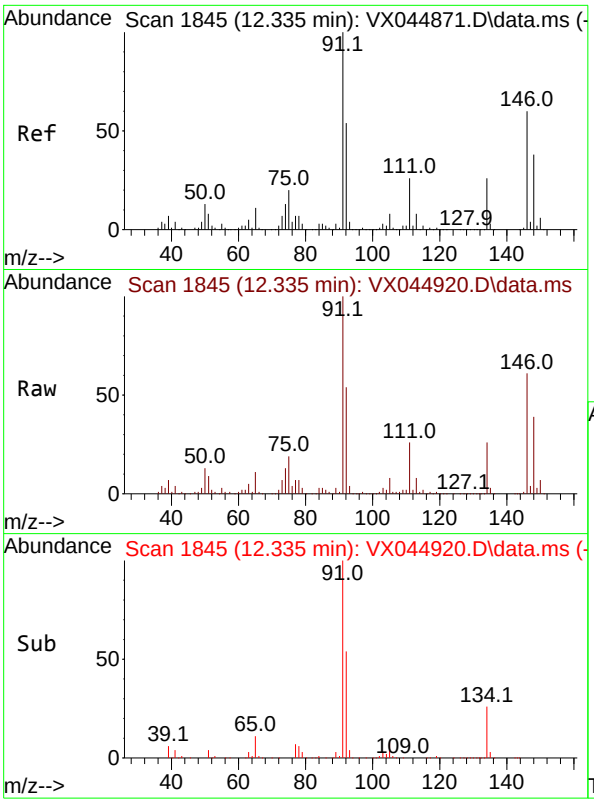


#90
Hexachloroethane
Concen: 49.010 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:117 Resp: 50761

Ion	Ratio	Lower	Upper
117	100		
201	63.5	32.5	97.5



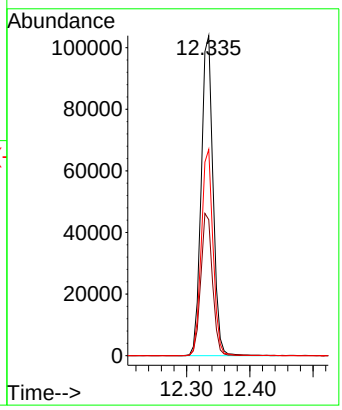


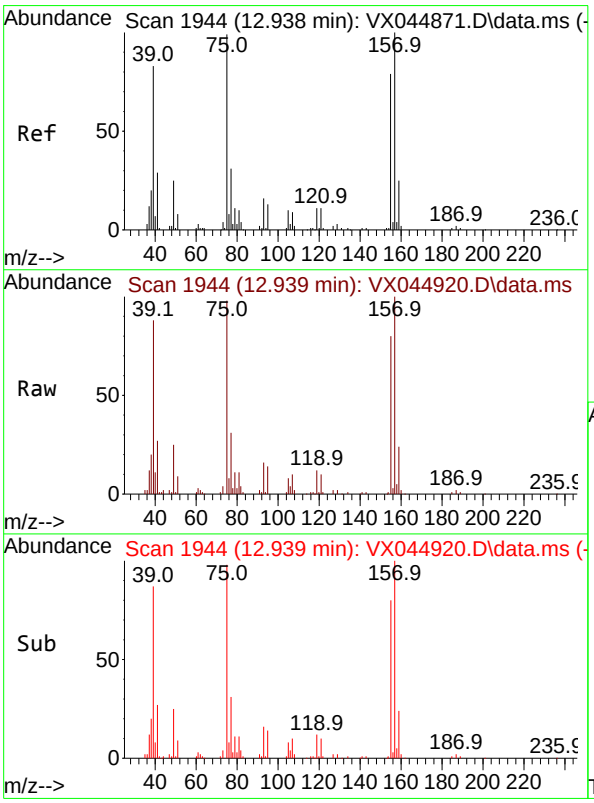
#91
1,2-Dichlorobenzene
Concen: 48.817 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 135345

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.8	65.4
148	64.0	31.9	95.9

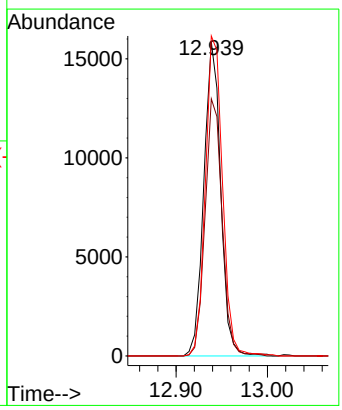


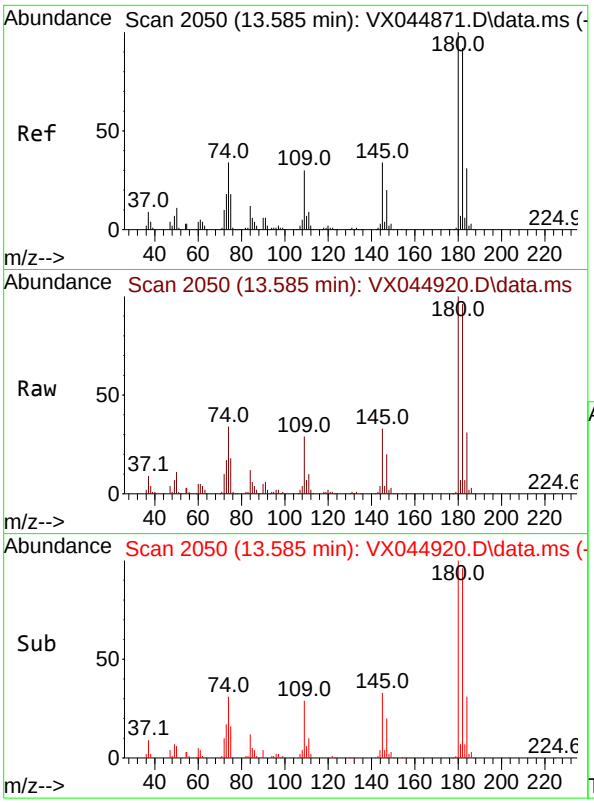


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.833 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion: 75 Resp: 20298

Ion	Ratio	Lower	Upper
75	100		
155	82.9	40.5	121.4
157	103.9	51.4	154.3



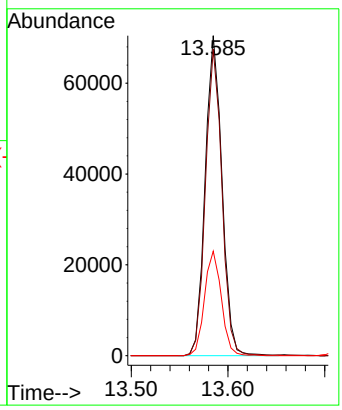


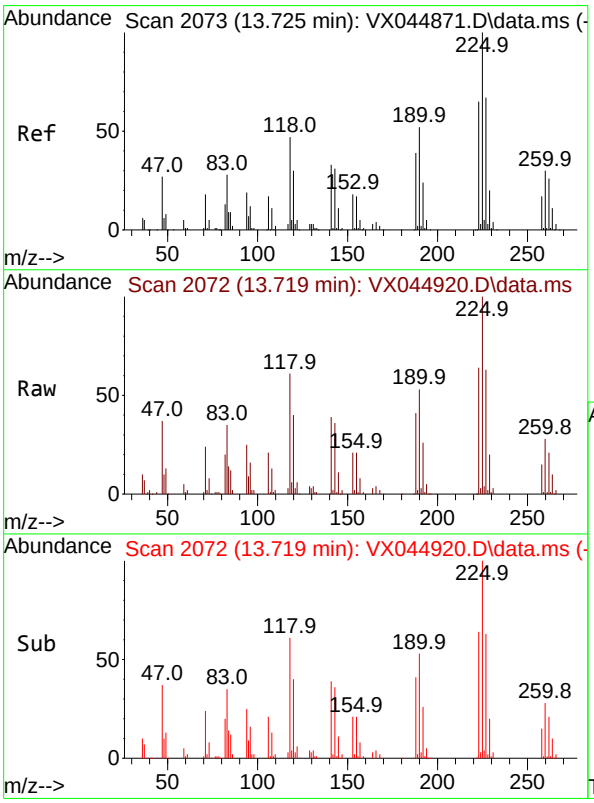
#93
1,2,4-Trichlorobenzene
Concen: 50.856 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 85318

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.6	142.8
145	32.7	16.4	49.1

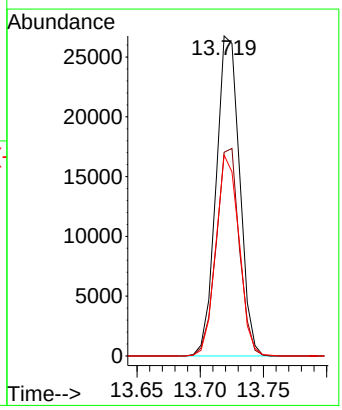


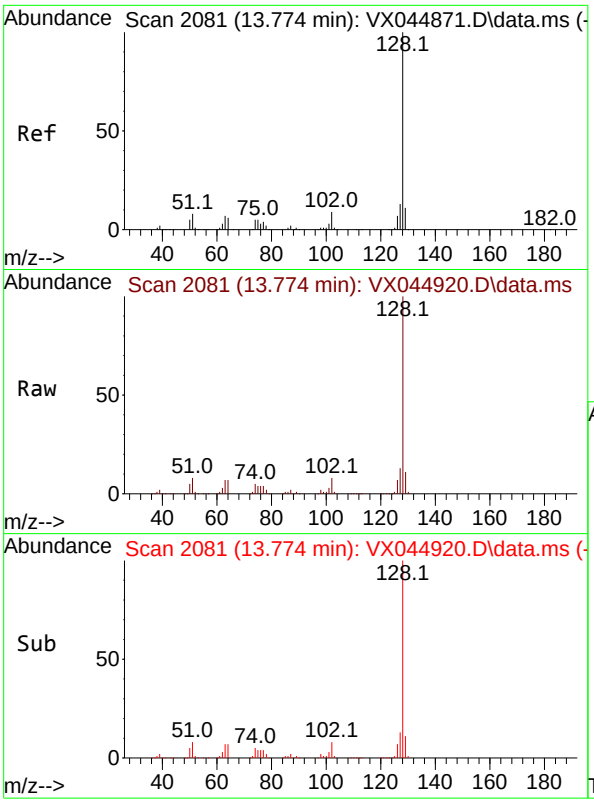


#94
Hexachlorobutadiene
Concen: 51.753 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:225 Resp: 34467

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.4	94.2
227	61.9	32.3	96.8



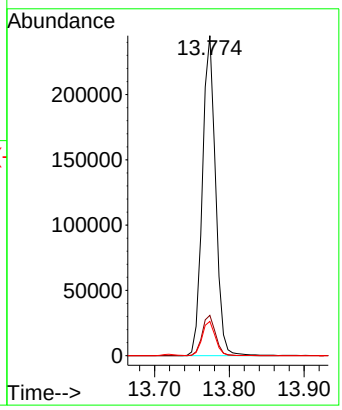


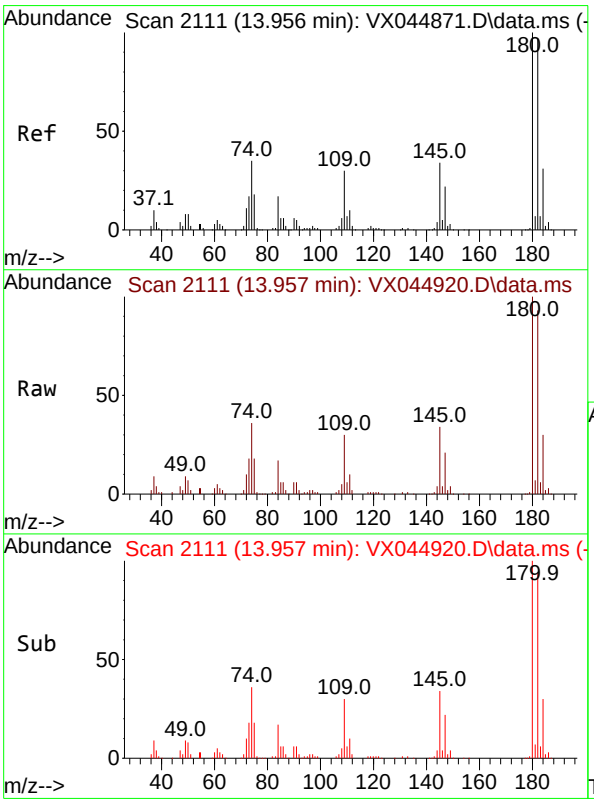
#95
Naphthalene
Concen: 49.423 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 299724

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.8	8.9	13.3

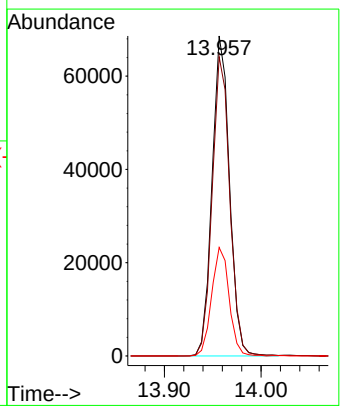




#96
1,2,3-Trichlorobenzene
Concen: 50.809 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044920.D
Acq: 12 Feb 2025 10:07

Tgt Ion:180 Resp: 85892

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.9	143.6
145	33.9	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044923.D
Acq On : 12 Feb 2025 11:20
Operator : JC/MD
Sample : VX0212WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Quant Time: Feb 13 00:47:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	111261	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	204350	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	179478	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	82301	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81774	50.209	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.420%			
35) Dibromofluoromethane	5.379	113	65583	49.362	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.720%			
50) Toluene-d8	8.647	98	247053	49.174	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.340%			
62) 4-Bromofluorobenzene	11.079	95	85651	50.570	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29797	19.095	ug/l	98
3) Chloromethane	1.300	50	34997	18.427	ug/l	100
4) Vinyl Chloride	1.373	62	32596	17.716	ug/l	98
5) Bromomethane	1.593	94	11098	20.156	ug/l	96
6) Chloroethane	1.666	64	16921	21.813	ug/l	93
7) Trichlorofluoromethane	1.873	101	44002	18.911	ug/l	98
8) Diethyl Ether	2.129	74	16393	19.426	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.324	101	26558	18.891	ug/l	99
10) Methyl Iodide	2.446	142	35166	19.301	ug/l	98
11) Tert butyl alcohol	2.977	59	27915	92.390	ug/l	100
12) 1,1-Dichloroethene	2.312	96	26286	18.330	ug/l	93
13) Acrolein	2.233	56	33487	107.421	ug/l	99
14) Allyl chloride	2.660	41	47738	18.419	ug/l	98
15) Acrylonitrile	3.062	53	77467	96.028	ug/l	99
16) Acetone	2.379	43	62338	95.211	ug/l	97
17) Carbon Disulfide	2.507	76	66564	16.927	ug/l	99
18) Methyl Acetate	2.696	43	40821	19.757	ug/l	95
19) Methyl tert-butyl Ether	3.111	73	84907	18.609	ug/l	97
20) Methylene Chloride	2.782	84	29468	18.375	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	25735	18.233	ug/l	94
22) Diisopropyl ether	3.757	45	92775	18.921	ug/l	94
23) Vinyl Acetate	3.714	43	367002	91.811	ug/l	98
24) 1,1-Dichloroethane	3.605	63	50977	18.581	ug/l	98
25) 2-Butanone	4.556	43	103185	97.054	ug/l	95
26) 2,2-Dichloropropane	4.464	77	38585	17.734	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	32165	18.972	ug/l	99
28) Bromochloromethane	4.885	49	23788	18.042	ug/l	99
29) Tetrahydrofuran	5.001	42	67521	95.643	ug/l	99
30) Chloroform	5.086	83	50826	19.103	ug/l	99
31) Cyclohexane	5.464	56	45845	18.126	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	42322	18.753	ug/l	99
36) 1,1-Dichloropropene	5.684	75	35178	18.352	ug/l	100
37) Ethyl Acetate	4.714	43	39995	18.759	ug/l	100
38) Carbon Tetrachloride	5.671	117	34481	18.357	ug/l	99
39) Methylcyclohexane	7.372	83	46566	18.791	ug/l	96
40) Benzene	6.031	78	113256	18.922	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044923.D
Acq On : 12 Feb 2025 11:20
Operator : JC/MD
Sample : VX0212WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Quant Time: Feb 13 00:47:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	22027	19.301	ug/l		97
42) 1,2-Dichloroethane	6.086	62	37792	19.811	ug/l		98
43) Isopropyl Acetate	6.336	43	63554	18.459	ug/l		98
44) Trichloroethene	7.122	130	24953	18.239	ug/l		100
45) 1,2-Dichloropropane	7.427	63	27612	18.543	ug/l		94
46) Dibromomethane	7.580	93	19672	19.049	ug/l		98
47) Bromodichloromethane	7.817	83	38240	19.124	ug/l		98
48) Methyl methacrylate	7.689	41	31017	19.106	ug/l		97
49) 1,4-Dioxane	7.659	88	13925	399.801	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	211899	101.236	ug/l		97
52) Toluene	8.714	92	67935	19.058	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	36346	17.962	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	40844	18.104	ug/l		99
55) 1,1,2-Trichloroethane	9.146	97	26296	19.190	ug/l		98
56) Ethyl methacrylate	9.116	69	40980	18.516	ug/l		97
57) 1,3-Dichloropropane	9.305	76	46604	19.438	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	104955	96.581	ug/l		100
59) 2-Hexanone	9.427	43	154657	102.550	ug/l		98
60) Dibromochloromethane	9.518	129	27533	18.788	ug/l		99
61) 1,2-Dibromoethane	9.604	107	26548	19.115	ug/l		96
64) Tetrachloroethene	9.268	164	21396	18.903	ug/l		98
65) Chlorobenzene	10.073	112	72694	18.857	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	22294	17.968	ug/l		96
67) Ethyl Benzene	10.189	91	128430	18.879	ug/l		99
68) m/p-Xylenes	10.299	106	96088	38.291	ug/l		99
69) o-Xylene	10.640	106	47534	18.878	ug/l		100
70) Styrene	10.652	104	78288	19.298	ug/l		99
71) Bromoform	10.799	173	17535	18.936	ug/l	#	98
73) Isopropylbenzene	10.957	105	120952	18.252	ug/l		100
74) N-amyl acetate	10.841	43	55519	18.514	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	42256	18.556	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	43314	23.737	ug/l		84
77) Bromobenzene	11.195	156	28158	18.742	ug/l		97
78) n-propylbenzene	11.298	91	140438	18.361	ug/l		99
79) 2-Chlorotoluene	11.359	91	86613	18.425	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	100686	18.723	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	11525	16.247	ug/l		91
82) 4-Chlorotoluene	11.451	91	97212	18.692	ug/l		99
83) tert-Butylbenzene	11.713	119	100970	18.560	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	102485	19.309	ug/l		99
85) sec-Butylbenzene	11.890	105	126144	18.725	ug/l		100
86) p-Isopropyltoluene	12.006	119	102245	18.873	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	51423	18.612	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	52003	18.616	ug/l		99
89) n-Butylbenzene	12.329	91	89228	18.617	ug/l		99
90) Hexachloroethane	12.536	117	17270	17.025	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	52467	19.322	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7371	17.736	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	29489	17.948	ug/l		99
94) Hexachlorobutadiene	13.725	225	12394	19.001	ug/l		98
95) Naphthalene	13.774	128	110501	18.605	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	30930	18.682	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044923.D
Acq On : 12 Feb 2025 11:20
Operator : JC/MD
Sample : VX0212WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Quant Time: Feb 13 00:47:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

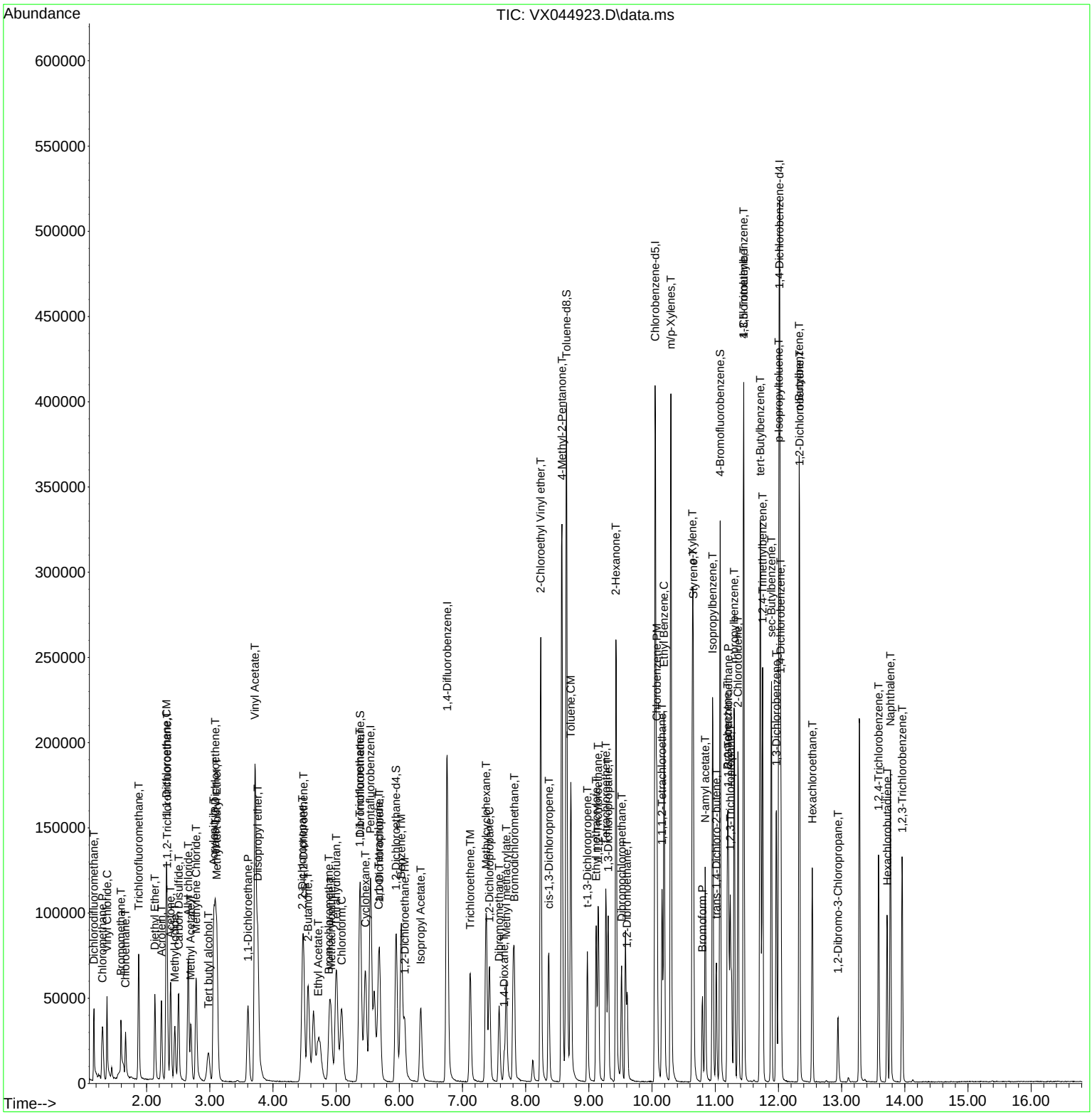
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

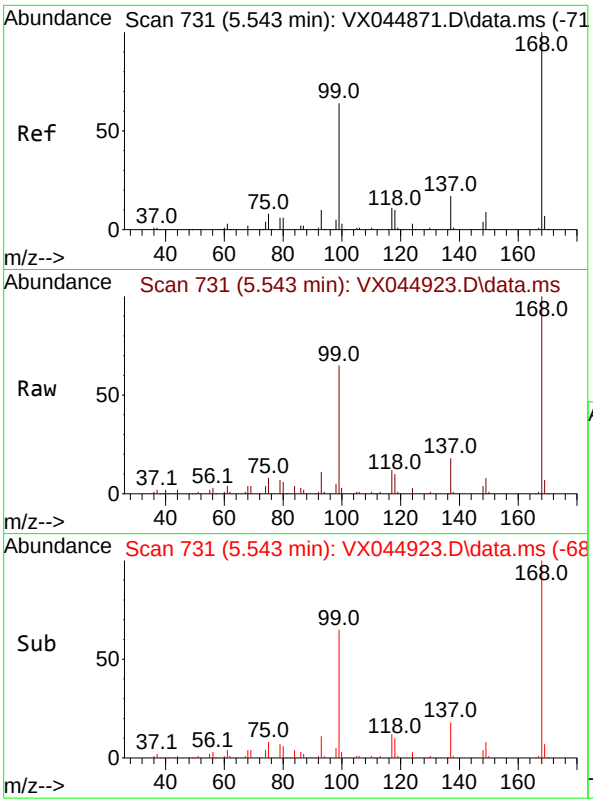
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044923.D
Acq On : 12 Feb 2025 11:20
Operator : JC/MD
Sample : VX0212WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Quant Time: Feb 13 00:47:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



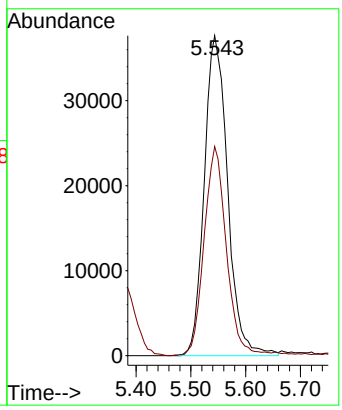


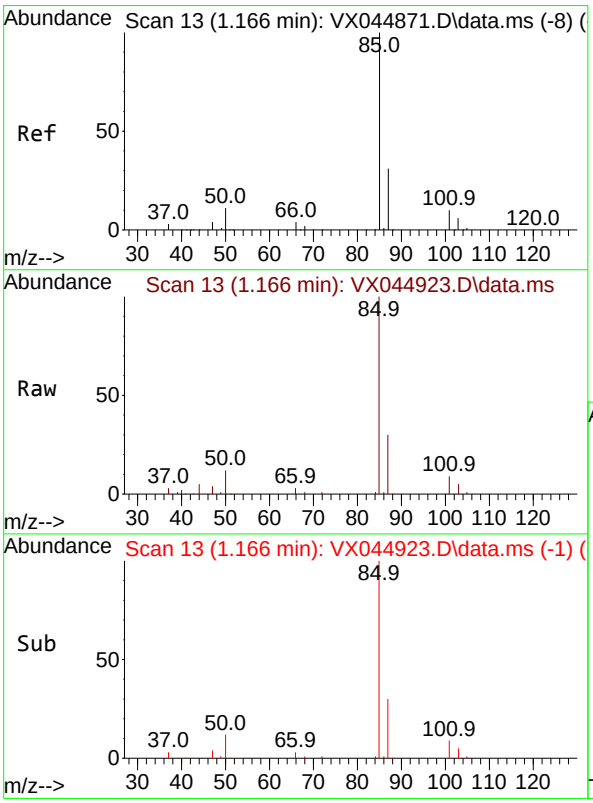
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:168 Resp: 111261

Ion	Ratio	Lower	Upper
168	100		
99	65.1	51.2	76.8

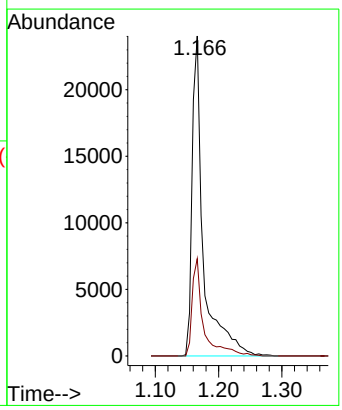


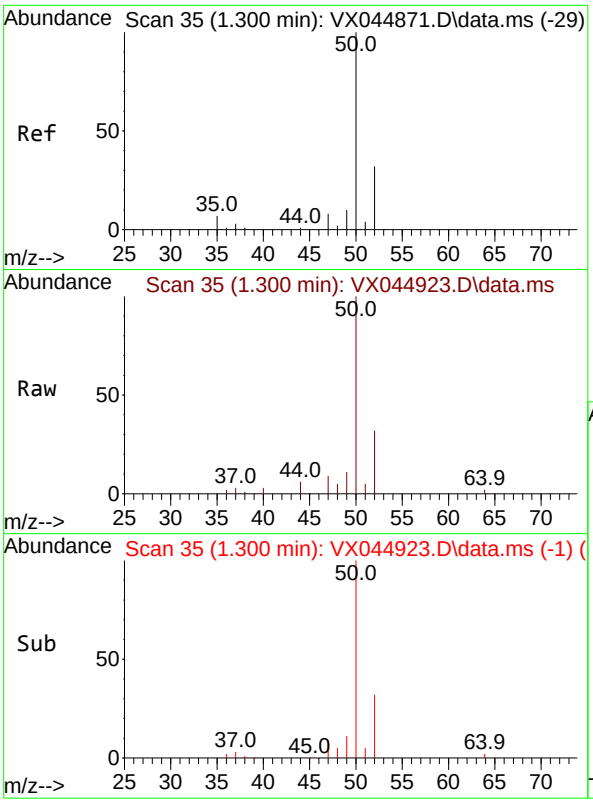


#2
Dichlorodifluoromethane
Concen: 19.095 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 85 Resp: 29797

Ion	Ratio	Lower	Upper
85	100		
87	30.4	15.8	47.3



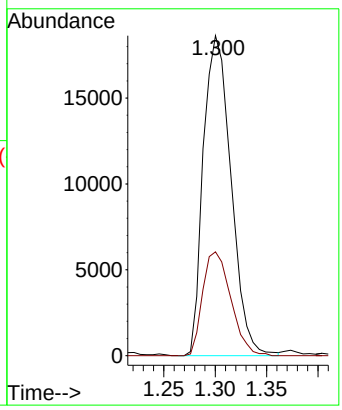


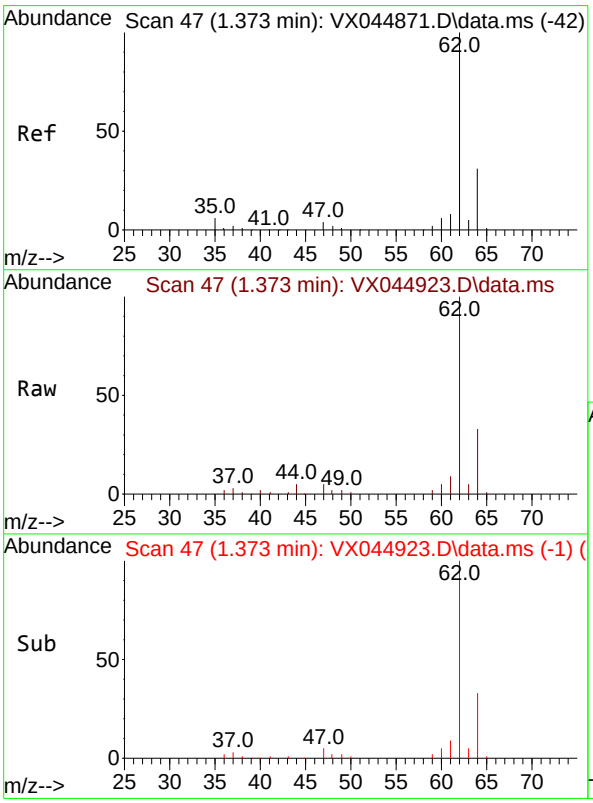
#3
Chloromethane
Concen: 18.427 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 50 Resp: 34997

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9

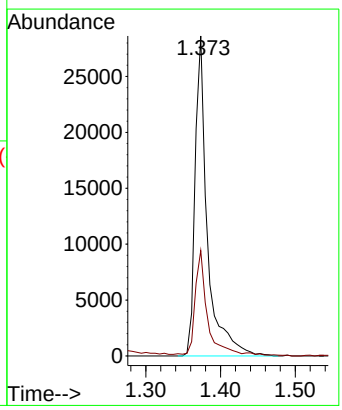


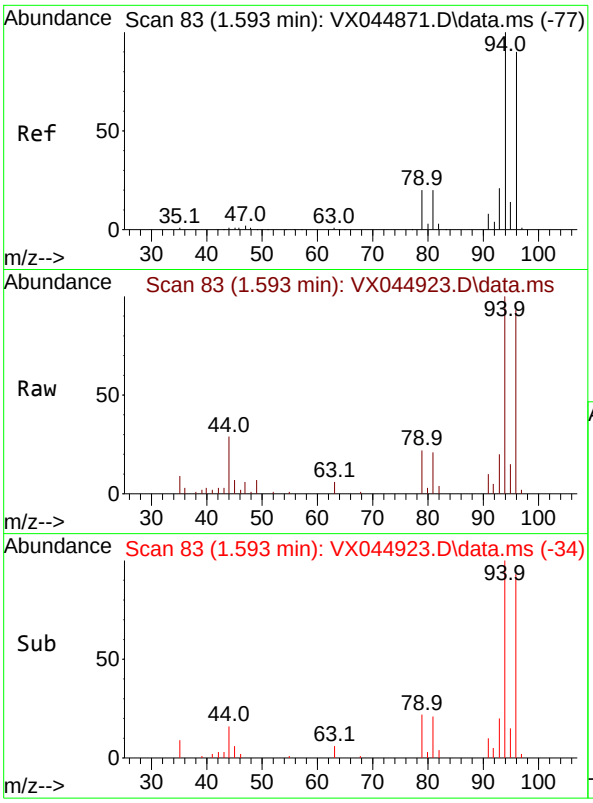


#4
Vinyl Chloride
Concen: 17.716 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 62 Resp: 32596

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.4	38.0



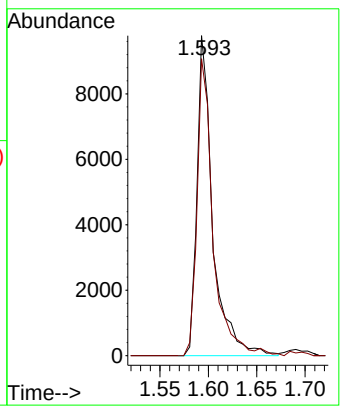


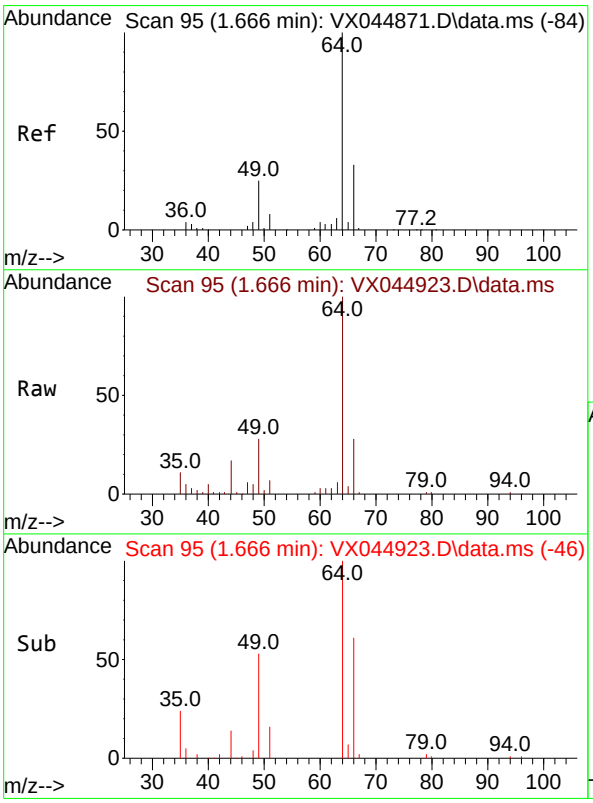
#5
Bromomethane
Concen: 20.156 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 94 Resp: 11098

Ion	Ratio	Lower	Upper
94	100		
96	92.8	71.6	107.4

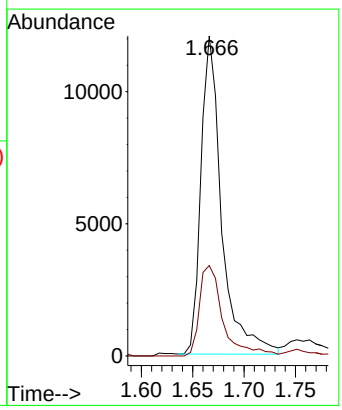


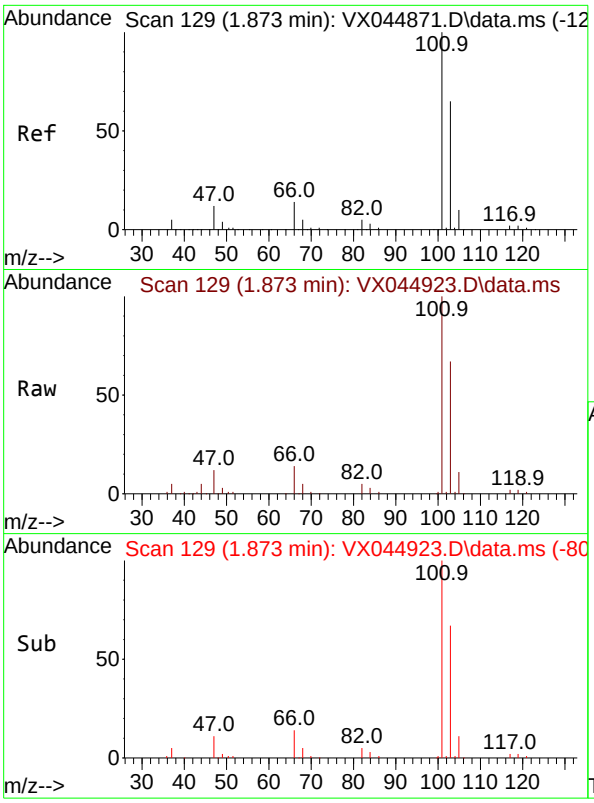


#6
Chloroethane
Concen: 21.813 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 64 Resp: 16921

Ion	Ratio	Lower	Upper
64	100		
66	28.4	25.9	38.9



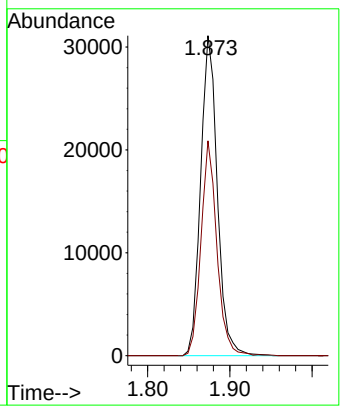


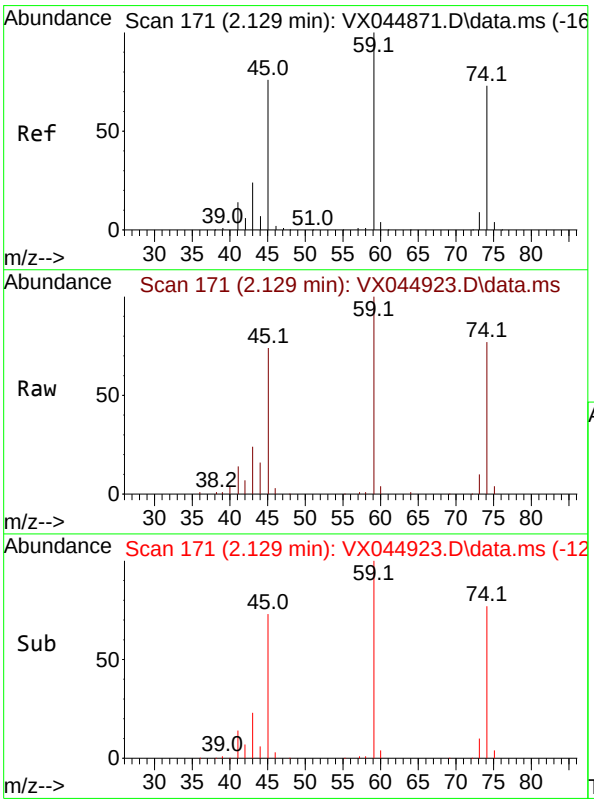
#7
Trichlorofluoromethane
Concen: 18.911 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:101 Resp: 44002

Ion	Ratio	Lower	Upper
101	100		
103	67.2	52.4	78.6

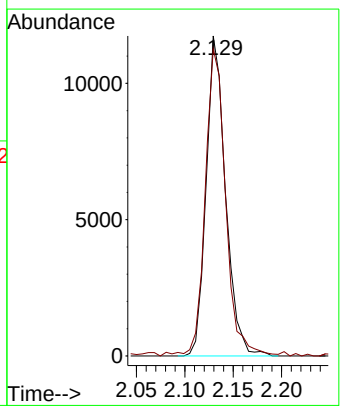


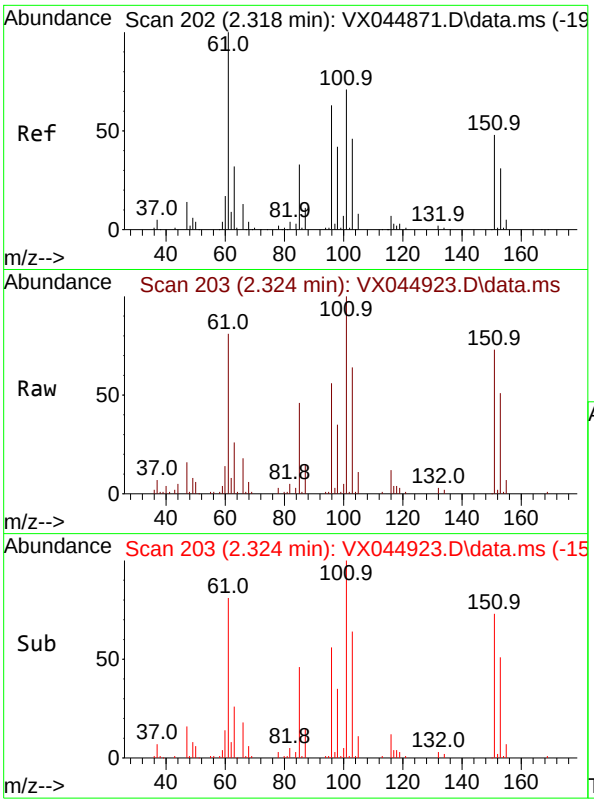


#8
Diethyl Ether
Concen: 19.426 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 74 Resp: 16393

Ion	Ratio	Lower	Upper
74	100		
45	101.4	51.1	153.4



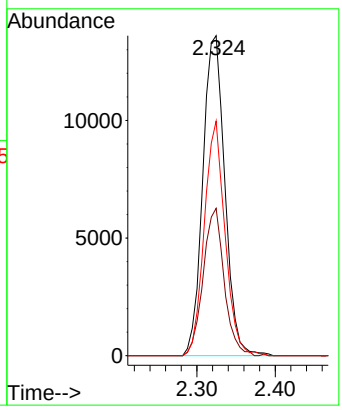


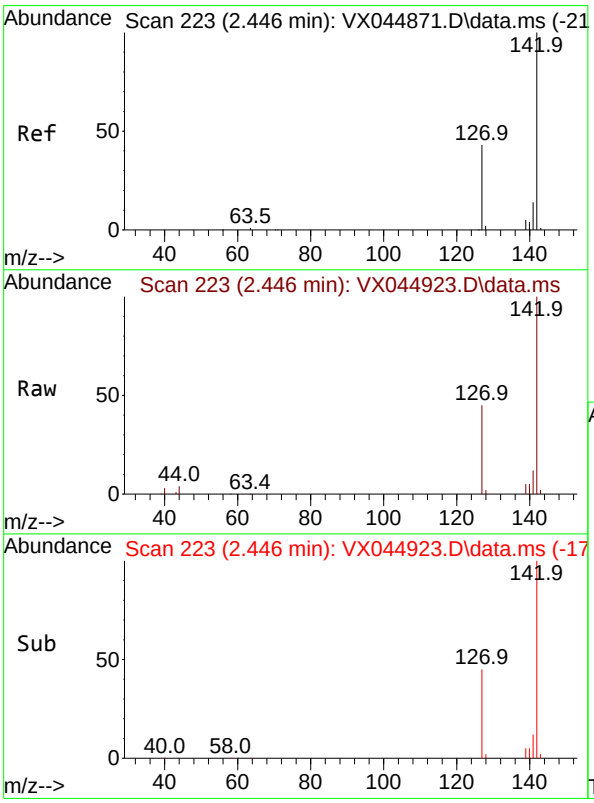
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.891 ug/l
RT: 2.324 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:101 Resp: 26558

Ion	Ratio	Lower	Upper
101	100		
85	43.8	35.7	53.5
151	69.0	56.0	84.0

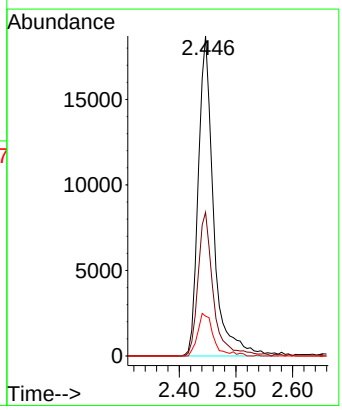


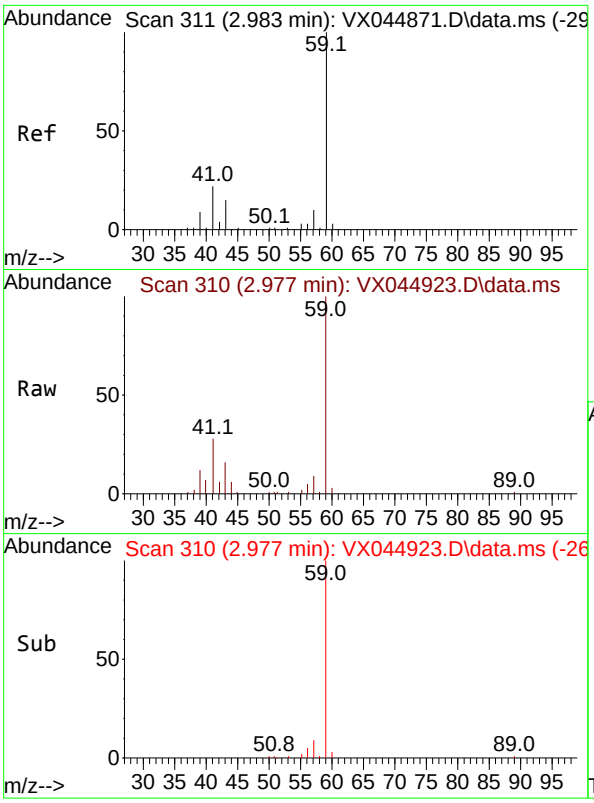


#10
Methyl Iodide
Concen: 19.301 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:142 Resp: 35166

Ion	Ratio	Lower	Upper
142	100		
127	44.7	34.3	51.5
141	13.9	11.4	17.2



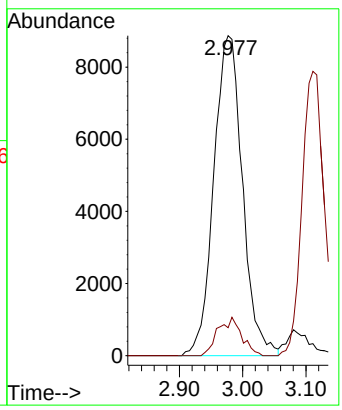


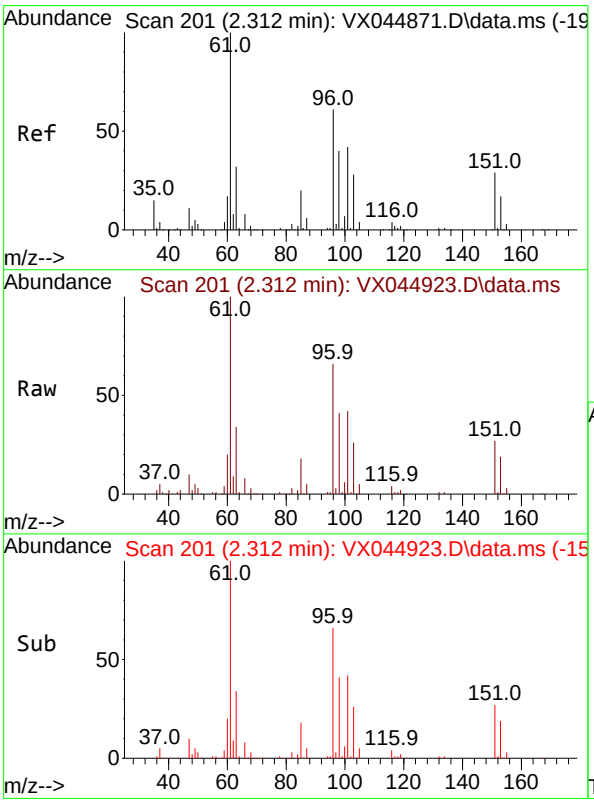
#11
Tert butyl alcohol
Concen: 92.390 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 59 Resp: 27915

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1

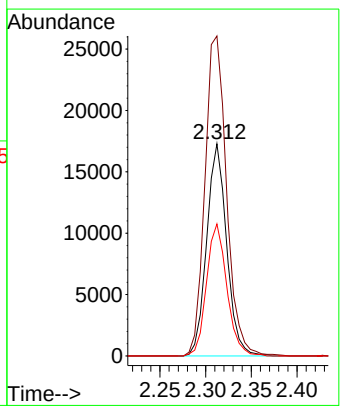


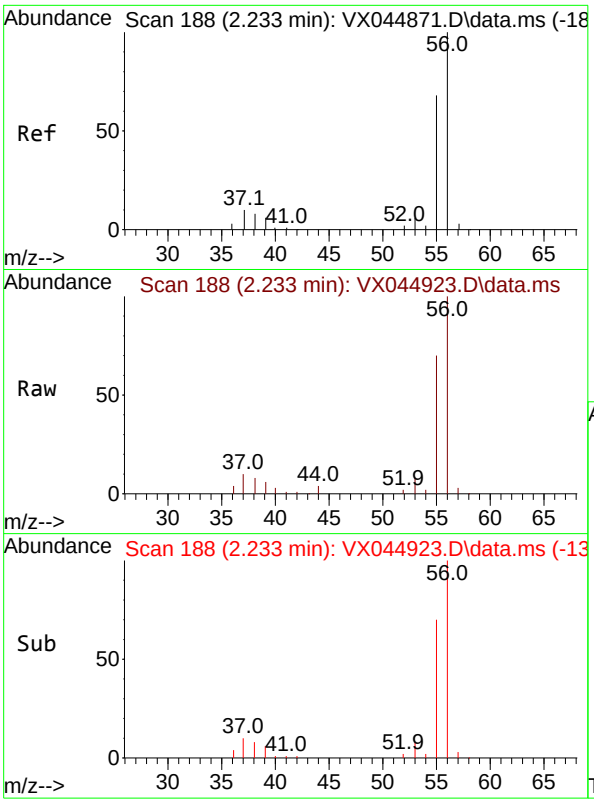


#12
1,1-Dichloroethene
Concen: 18.330 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 96 Resp: 26286

Ion	Ratio	Lower	Upper
96	100		
61	150.9	130.2	195.4
98	62.2	52.2	78.4



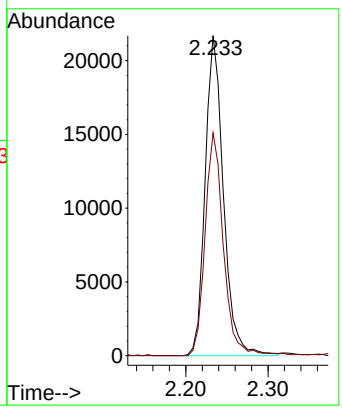


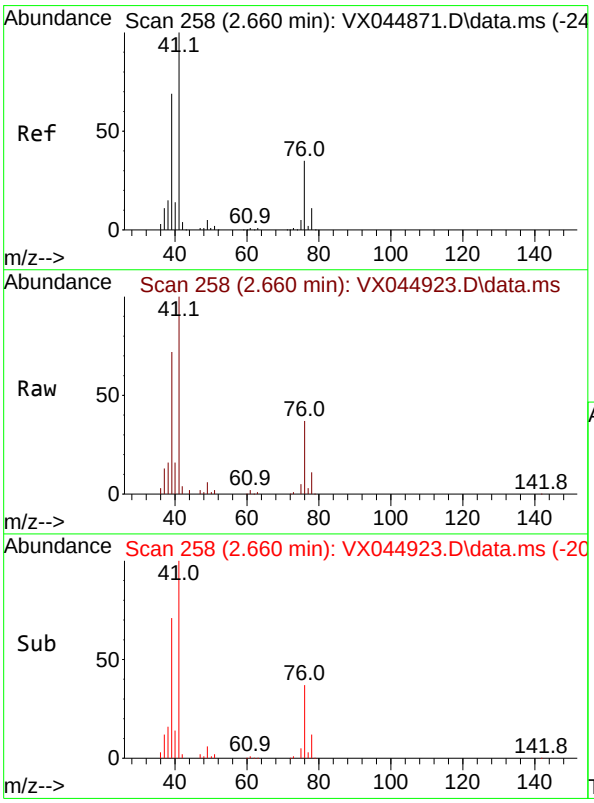
#13
Acrolein
Concen: 107.421 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 56 Resp: 33487

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5

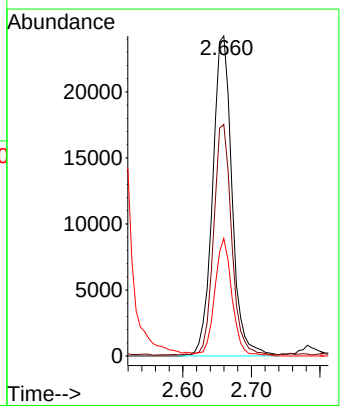


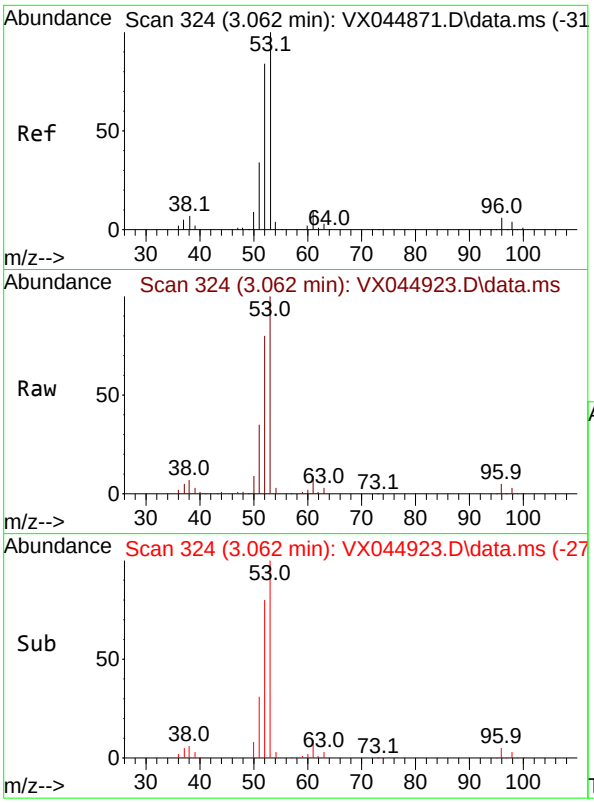


#14
Allyl chloride
Concen: 18.419 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 41 Resp: 47738

Ion	Ratio	Lower	Upper
41	100		
39	66.1	51.4	77.2
76	32.6	27.0	40.4



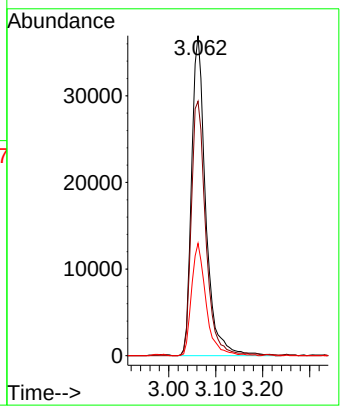


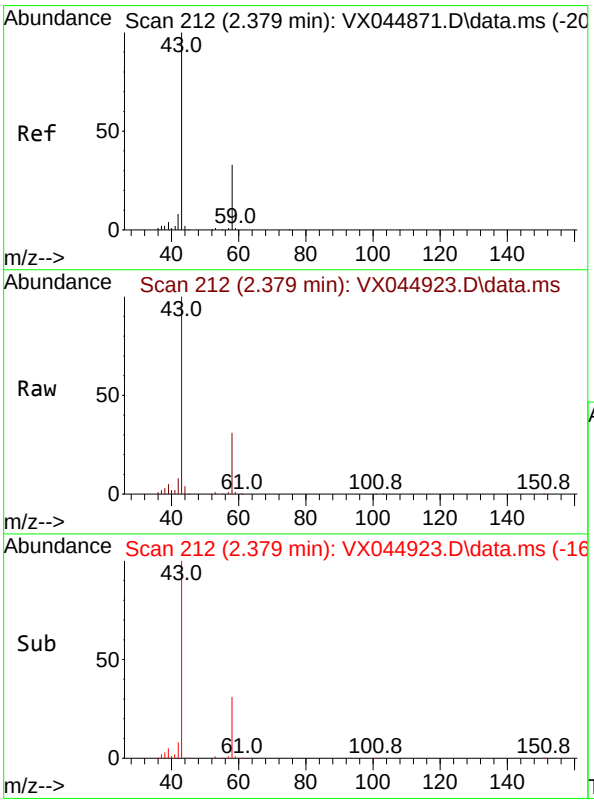
#15
Acrylonitrile
Concen: 96.028 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 53 Resp: 77467

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.0	97.6
51	36.1	28.0	42.0

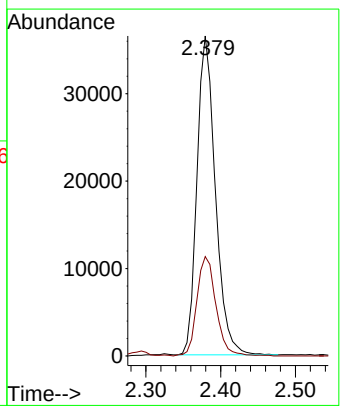


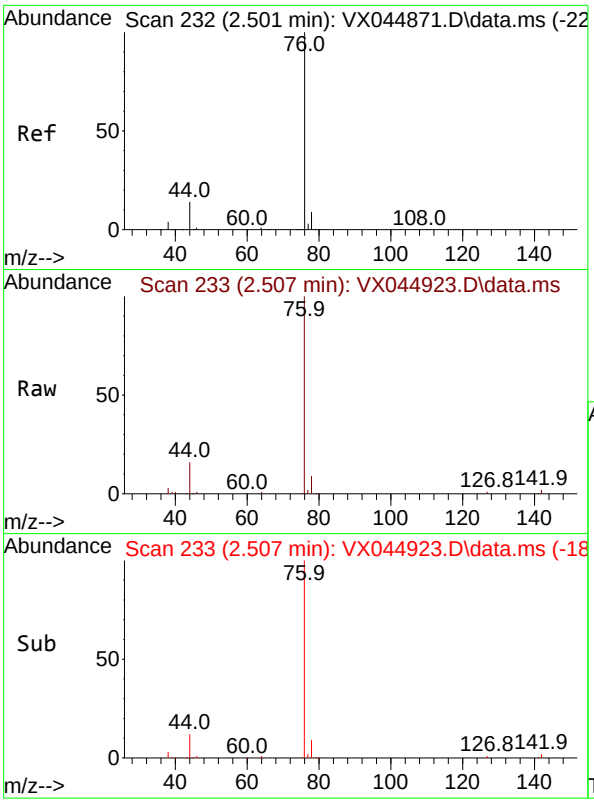


#16
Acetone
Concen: 95.211 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 62338

Ion	Ratio	Lower	Upper
43	100		
58	31.2	26.5	39.7



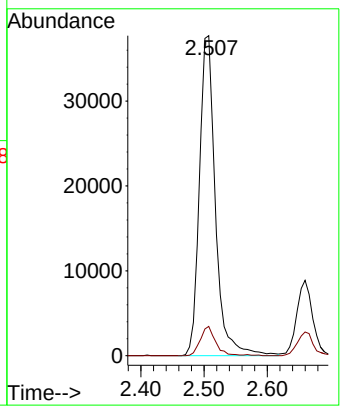


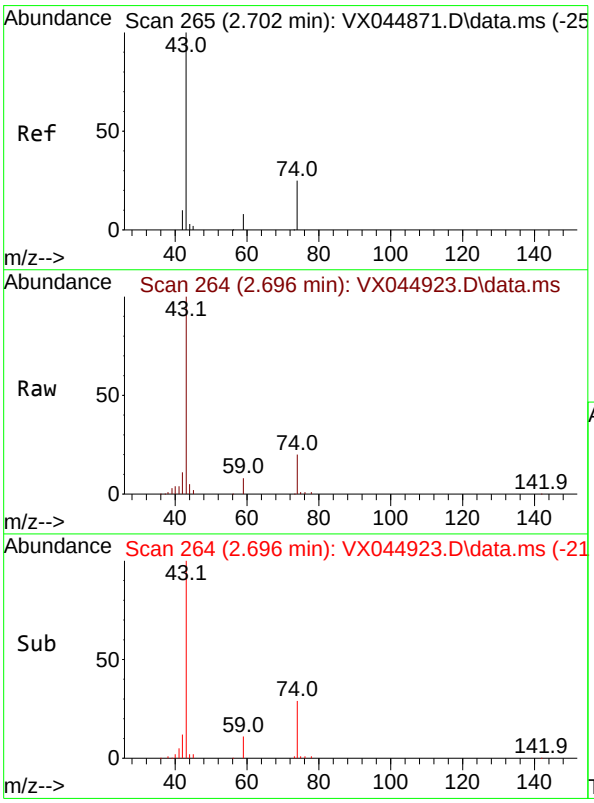
#17
Carbon Disulfide
Concen: 16.927 ug/l
RT: 2.507 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 76 Resp: 66564

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.4

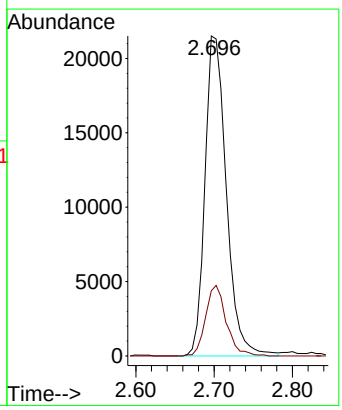


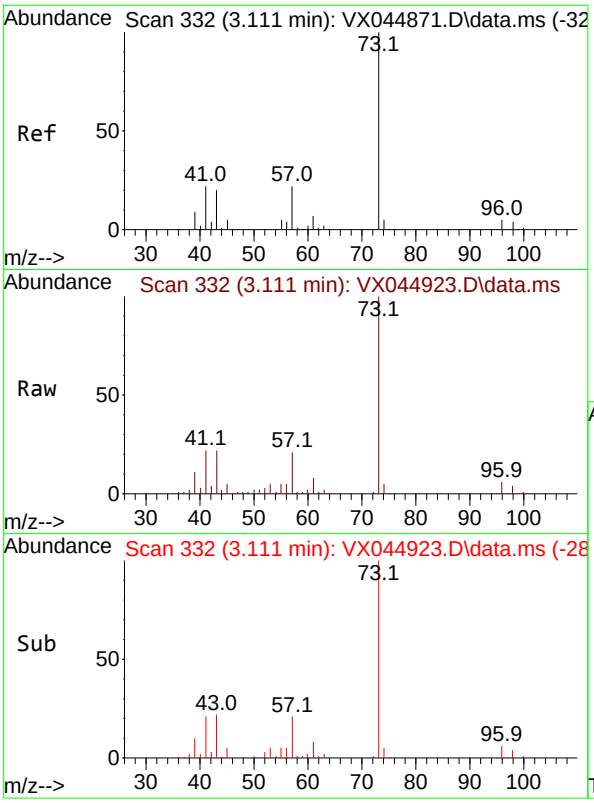


#18
Methyl Acetate
Concen: 19.757 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 40821

Ion	Ratio	Lower	Upper
43	100		
74	21.3	18.9	28.3



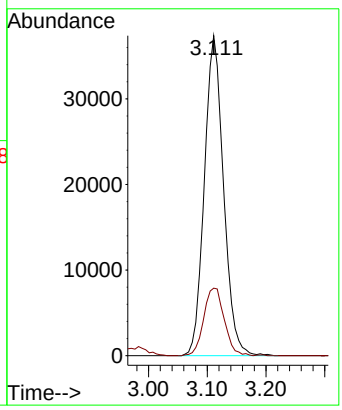


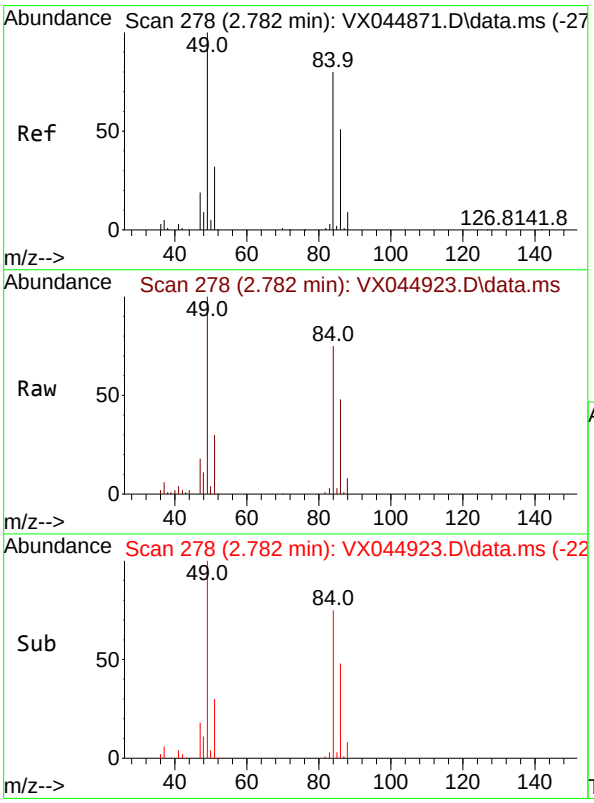
#19
Methyl tert-butyl Ether
Concen: 18.609 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 73 Resp: 84907

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.9	26.9

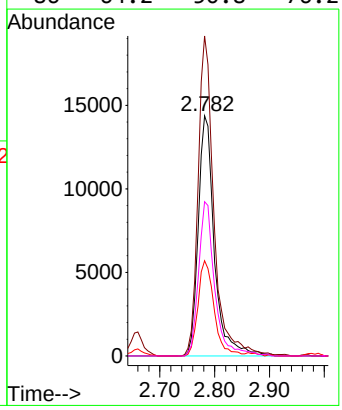


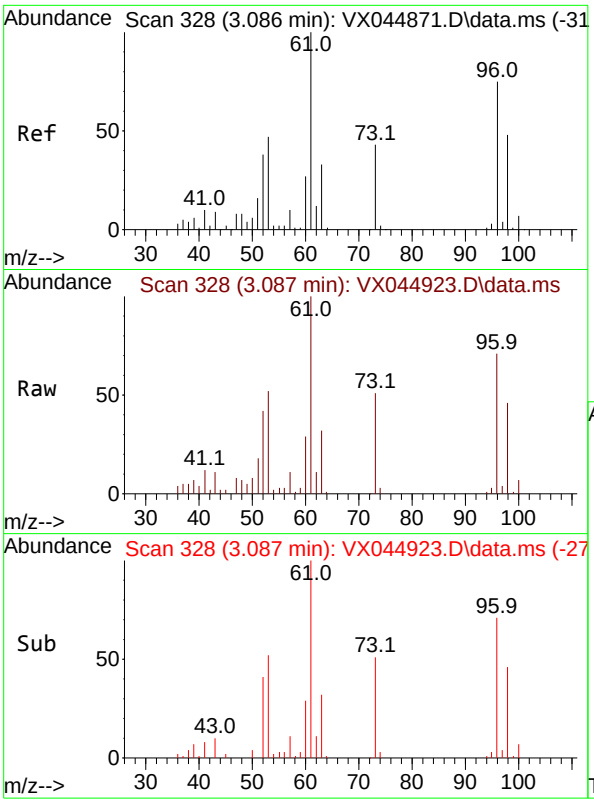


#20
Methylene Chloride
Concen: 18.375 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 84 Resp: 29468

Ion	Ratio	Lower	Upper
84	100		
49	133.2	100.1	150.1
51	39.6	31.7	47.5
86	64.2	50.8	76.2



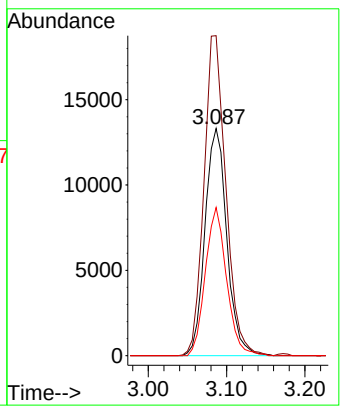


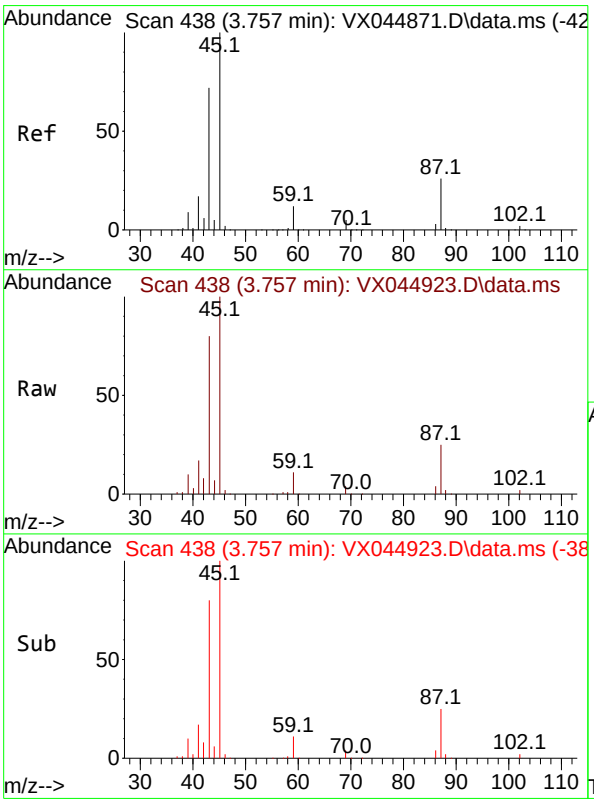
#21
trans-1,2-Dichloroethene
Concen: 18.233 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 96 Resp: 25735

Ion	Ratio	Lower	Upper
96	100		
61	140.8	106.0	159.0
98	65.2	50.6	76.0

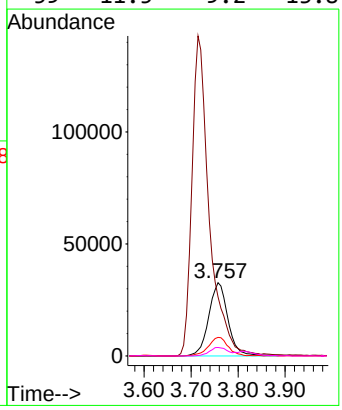


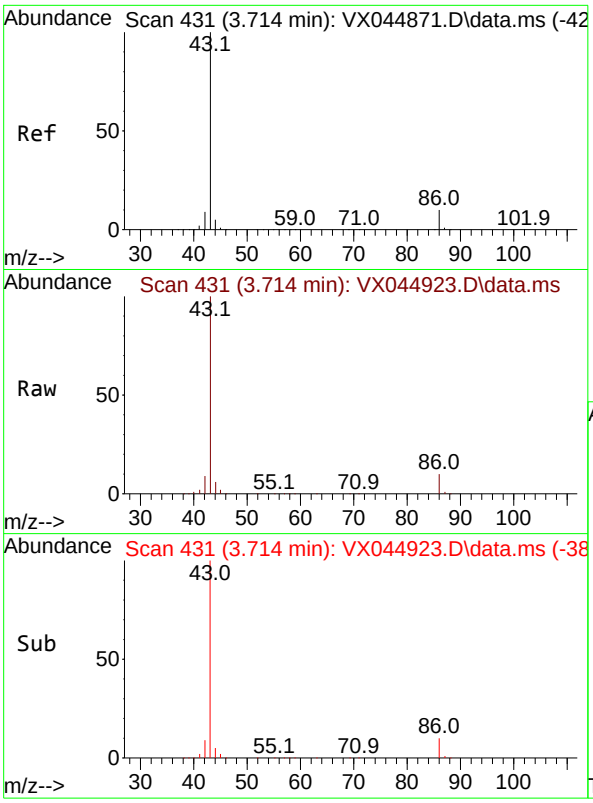


#22
Diisopropyl ether
Concen: 18.921 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 45 Resp: 92775

Ion	Ratio	Lower	Upper
45	100		
43	80.1	58.0	87.0
87	25.3	20.7	31.1
59	11.5	9.2	13.8



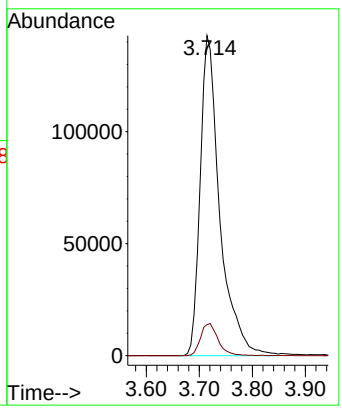


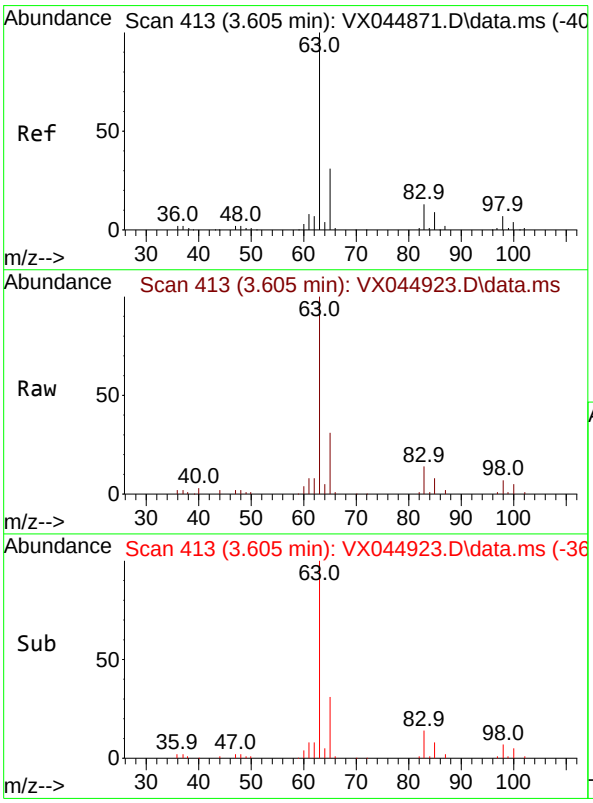
#23
Vinyl Acetate
Concen: 91.811 ug/l
RT: 3.714 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 43 Resp: 367002

Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.3	12.5

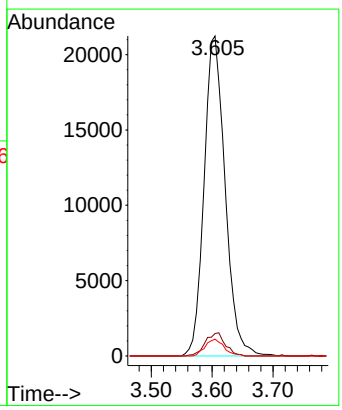


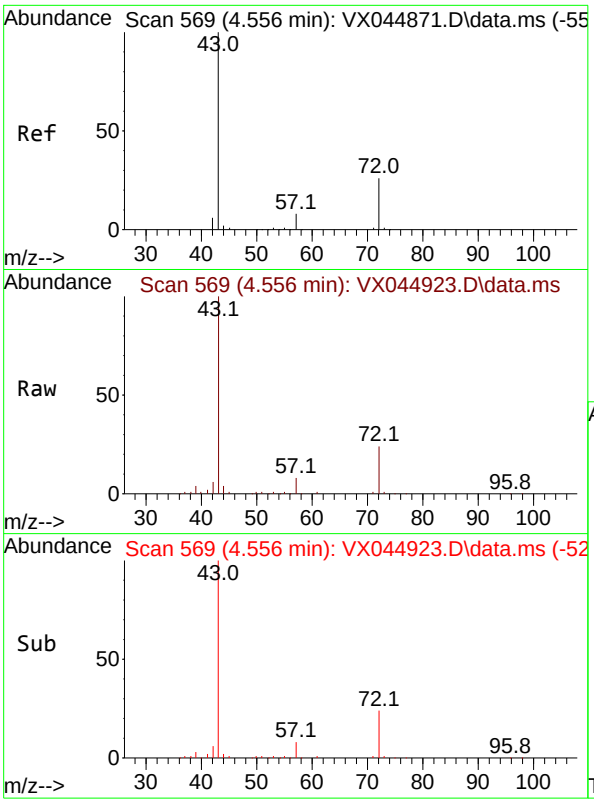


#24
1,1-Dichloroethane
Concen: 18.581 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 63 Resp: 50977

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	5.3	2.1	6.5



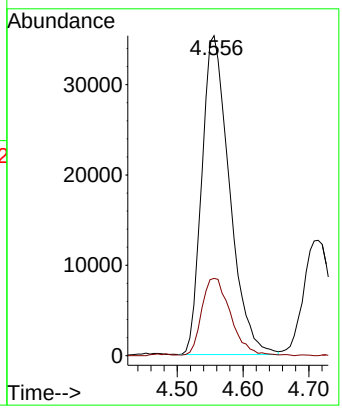


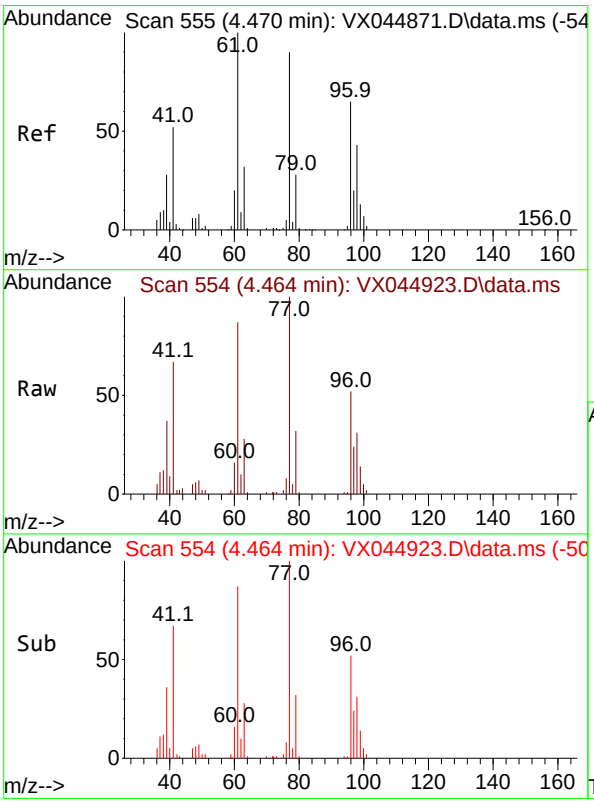
#25
2-Butanone
Concen: 97.054 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 43 Resp: 103185

Ion	Ratio	Lower	Upper
43	100		
72	24.0	21.2	31.8

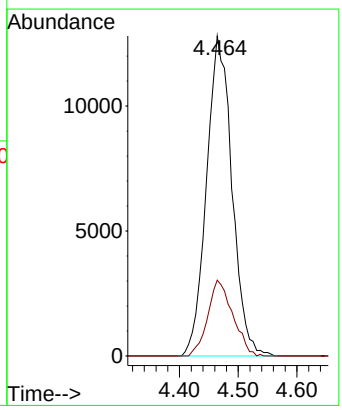


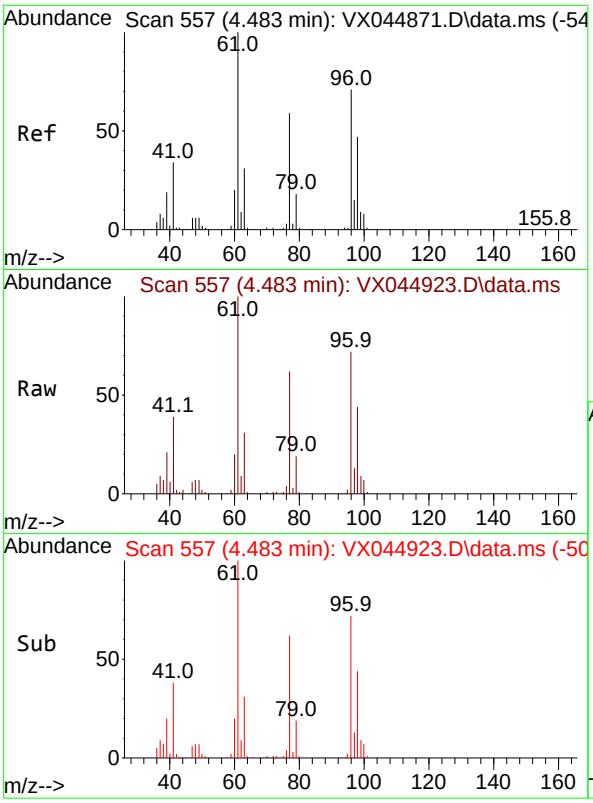


#26
2,2-Dichloropropane
Concen: 17.734 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 77 Resp: 38585

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.8	35.3



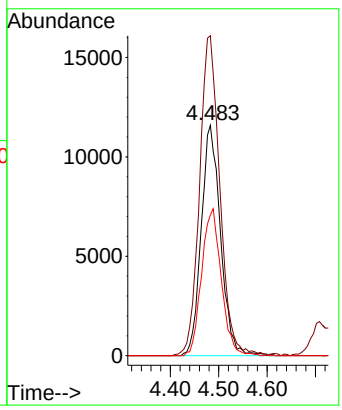


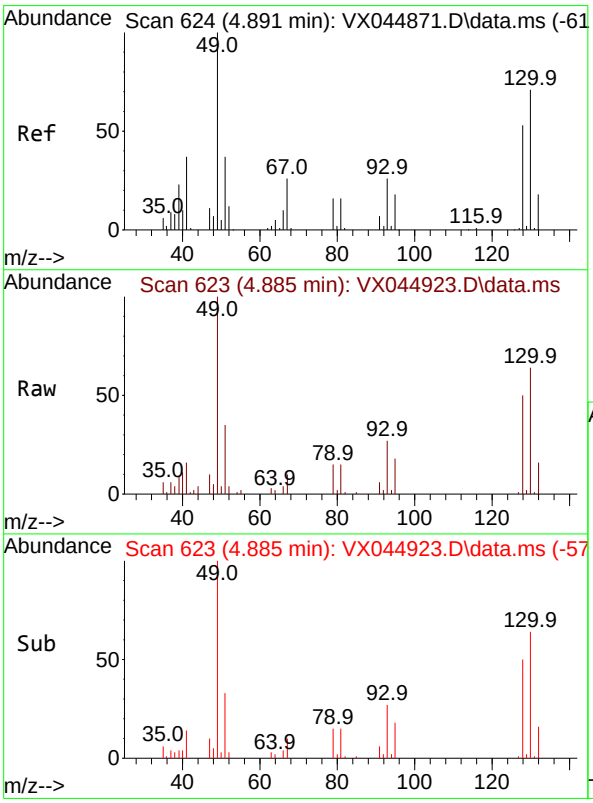
#27
cis-1,2-Dichloroethene
Concen: 18.972 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 96 Resp: 32165

Ion	Ratio	Lower	Upper
96	100		
61	145.7	0.0	294.0
98	64.8	0.0	131.2

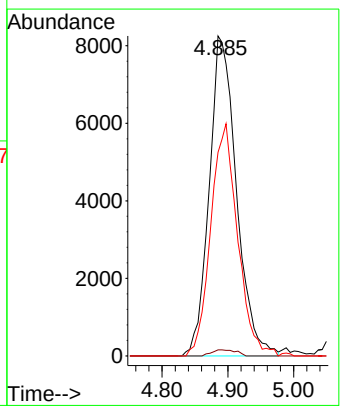


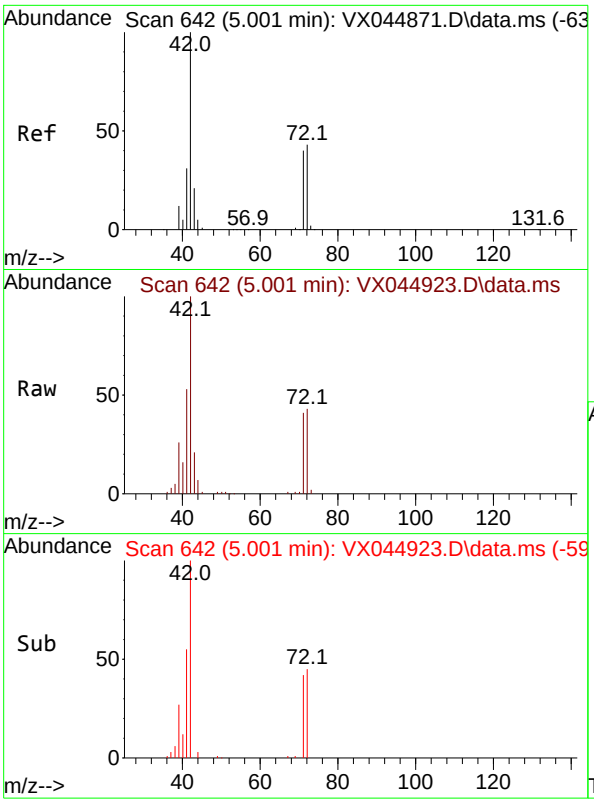


#28
Bromochloromethane
Concen: 18.042 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 49 Resp: 23788

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	71.6	56.7	85.1



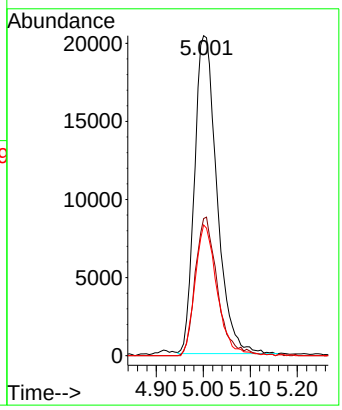


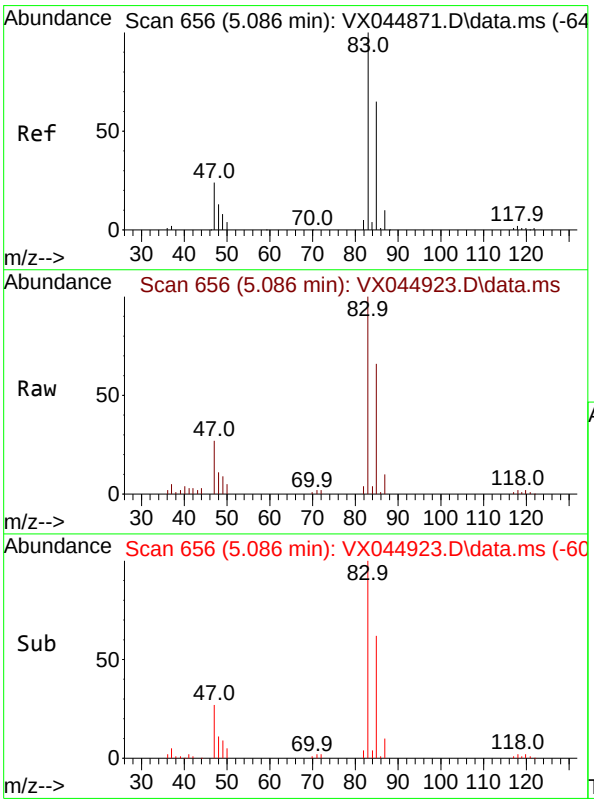
#29
Tetrahydrofuran
Concen: 95.643 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 42 Resp: 67521

Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.0	52.4
71	40.5	32.6	48.8

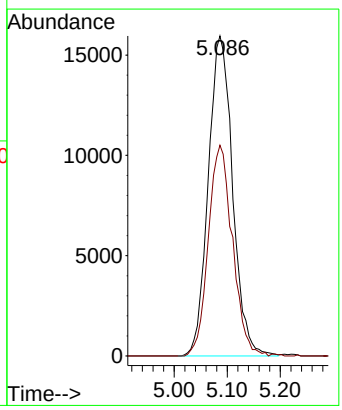


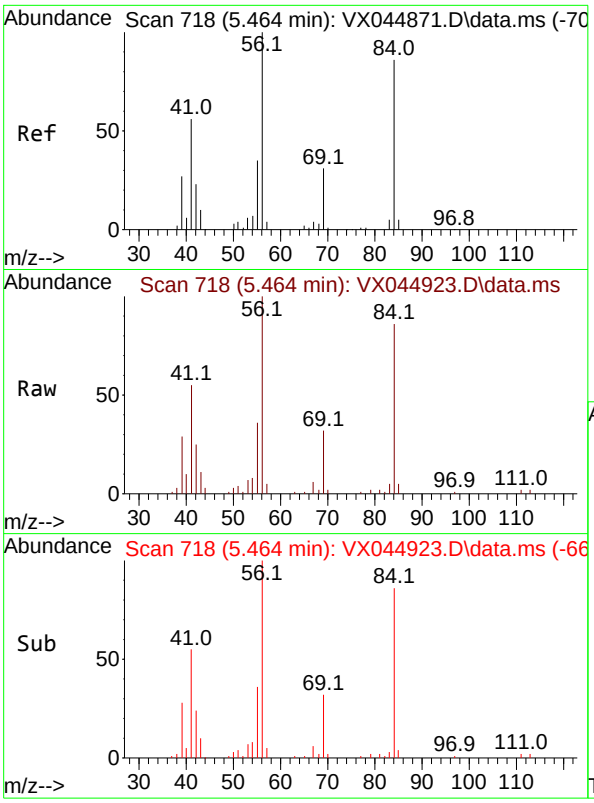


#30
Chloroform
Concen: 19.103 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 83 Resp: 50826

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.1	78.1



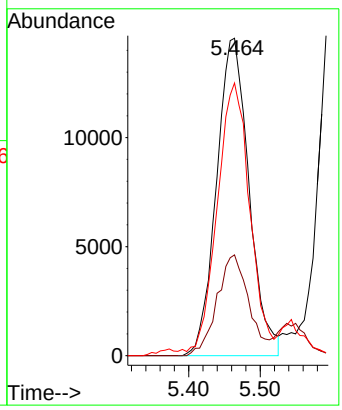


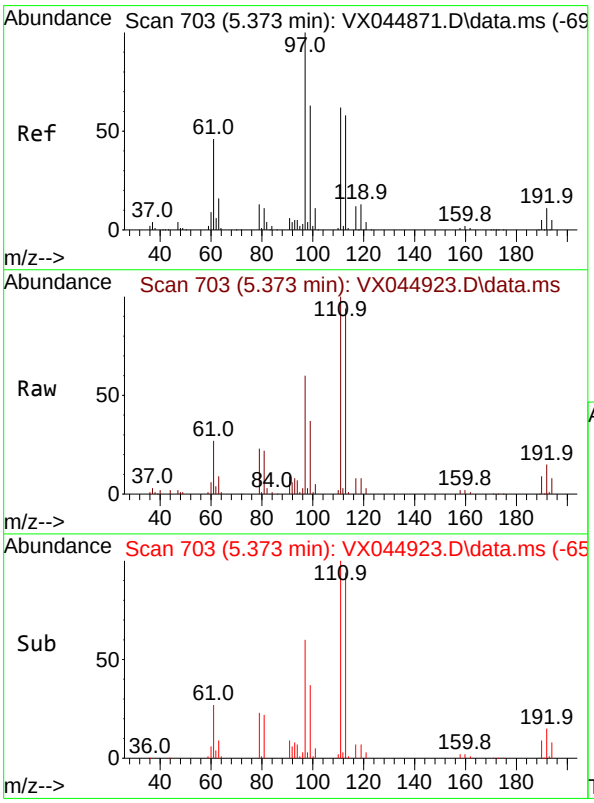
#31
Cyclohexane
Concen: 18.126 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 56 Resp: 45845

Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.4	36.6
84	84.5	69.0	103.6

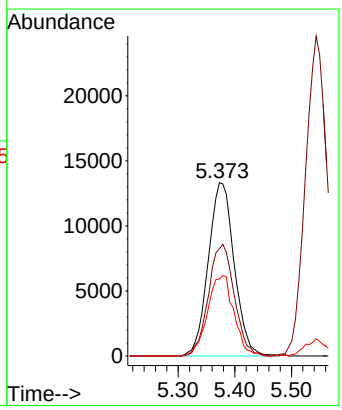


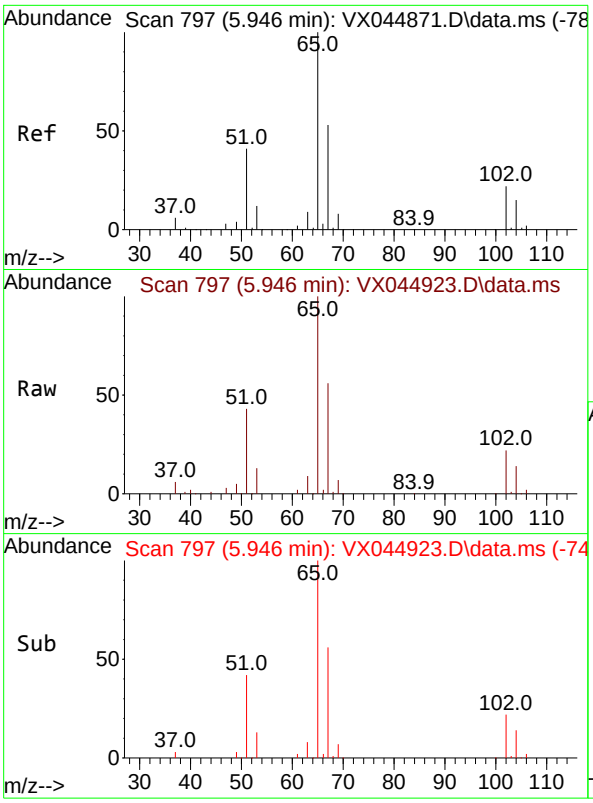


#32
1,1,1-Trichloroethane
Concen: 18.753 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 97 Resp: 42322

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	46.7	36.6	55.0



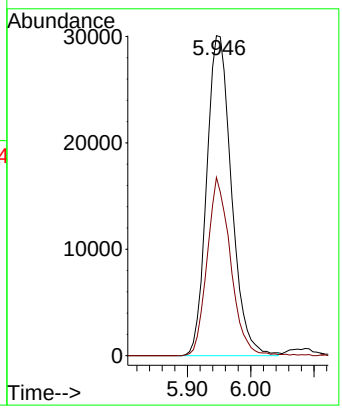


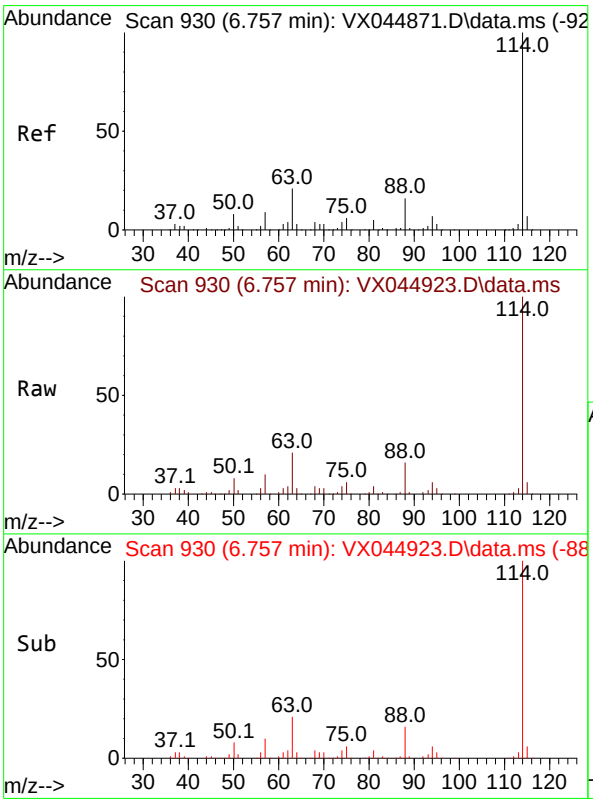
#33
1,2-Dichloroethane-d4
Concen: 50.209 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 65 Resp: 81774

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	108.2

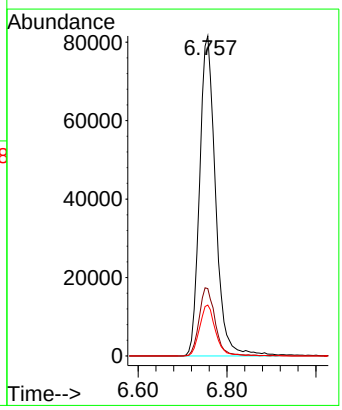


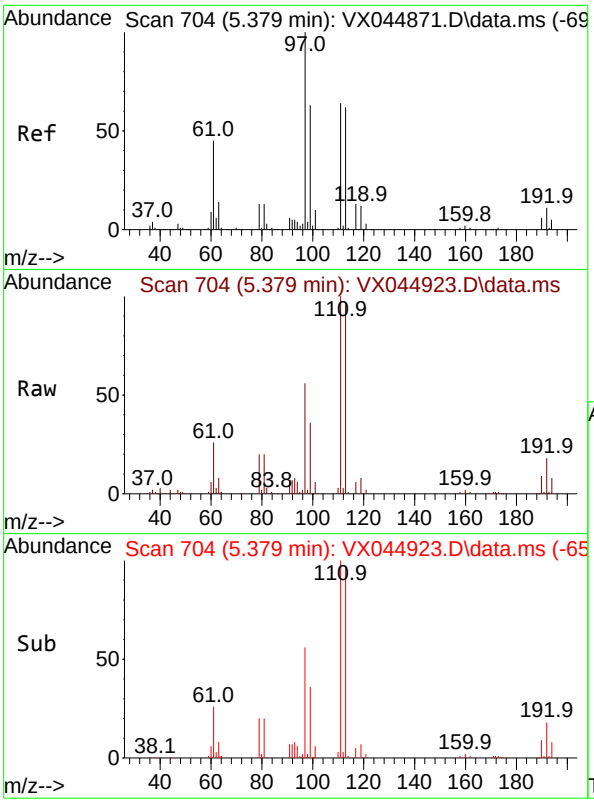


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:114 Resp: 204350

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.4
88	15.9	0.0	31.4



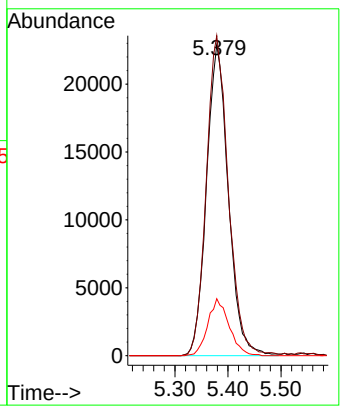


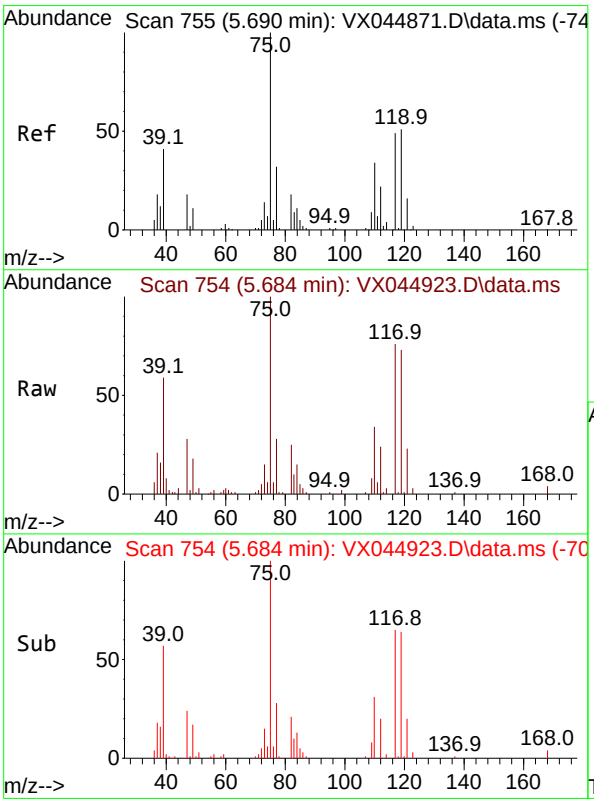
#35
Dibromofluoromethane
Concen: 49.362 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:113 Resp: 65583

Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.5	125.3
192	17.8	14.4	21.6

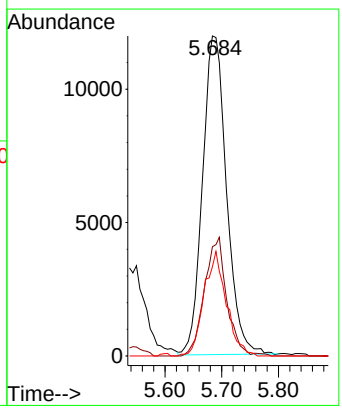


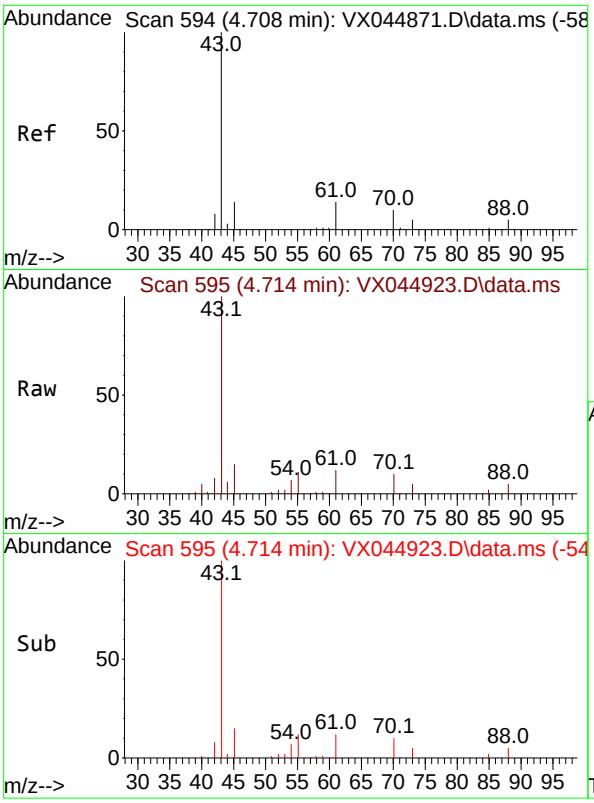


#36
1,1-Dichloropropene
Concen: 18.352 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 35178

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.5	24.6	37.0



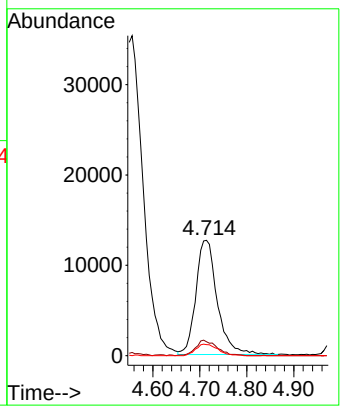


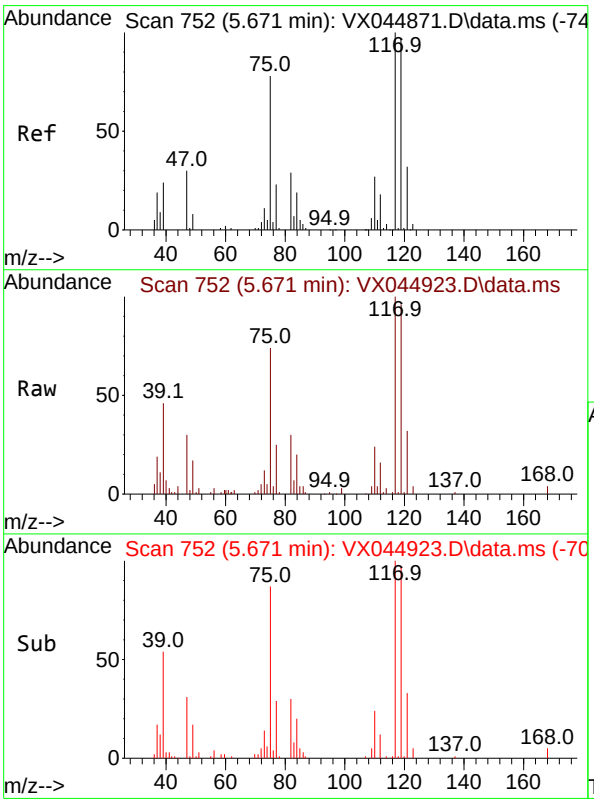
#37
Ethyl Acetate
Concen: 18.759 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 43 Resp: 39995

Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.0	16.4
70	10.4	8.2	12.2

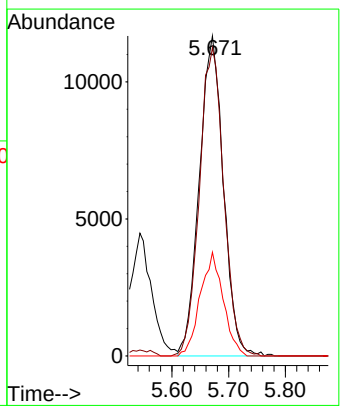


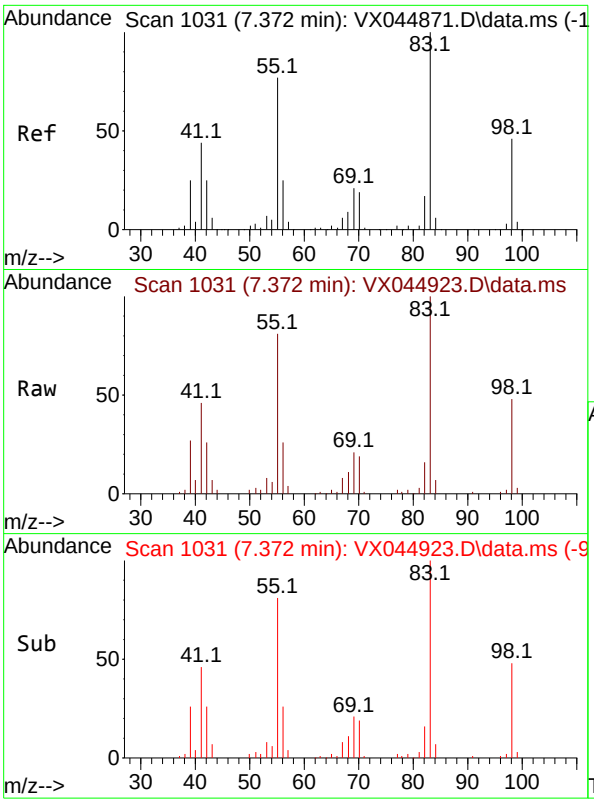


#38
Carbon Tetrachloride
Concen: 18.357 ug/l
RT: 5.671 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:117 Resp: 34481

Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.5	116.3
121	32.4	25.6	38.4



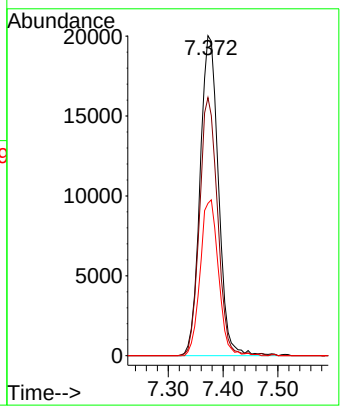


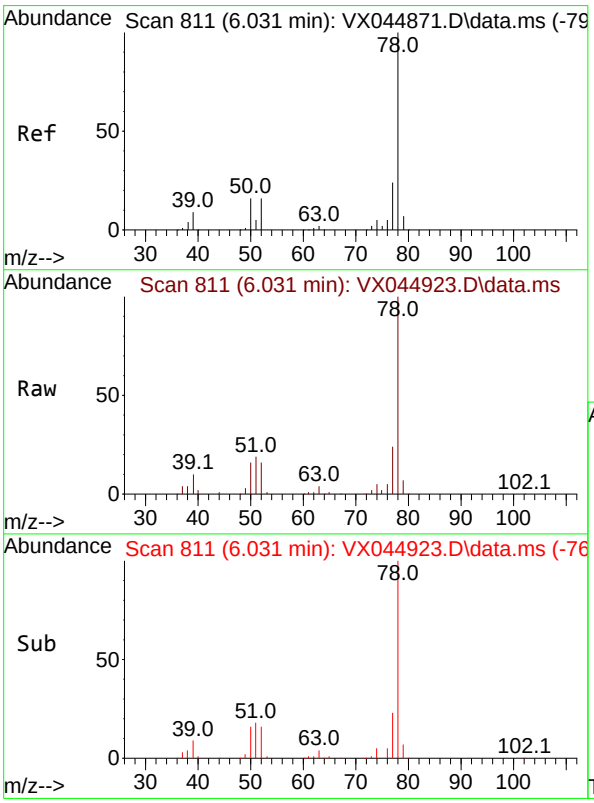
#39
Methylcyclohexane
Concen: 18.791 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 83 Resp: 46566

Ion	Ratio	Lower	Upper
83	100		
55	80.7	61.3	91.9
98	47.6	37.0	55.6

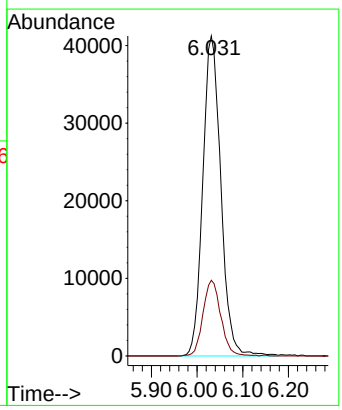


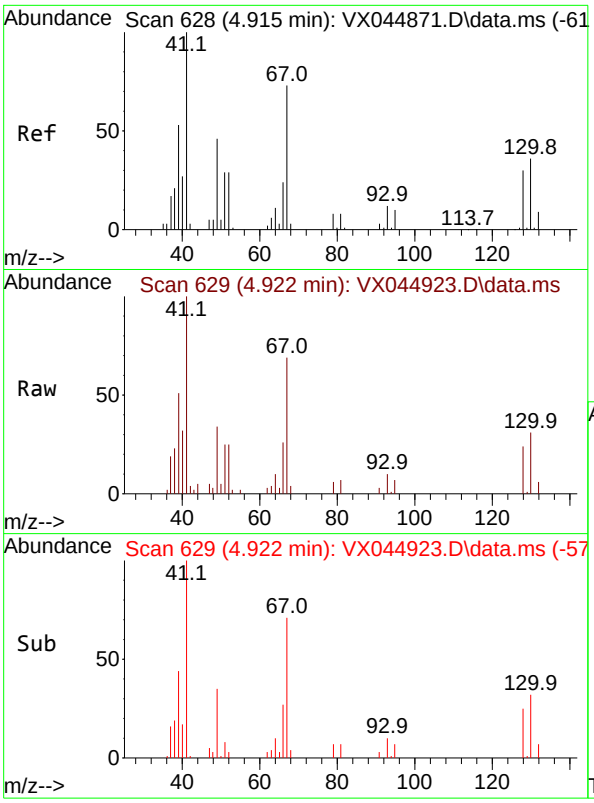


#40
Benzene
Concen: 18.922 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 78 Resp: 113256

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6



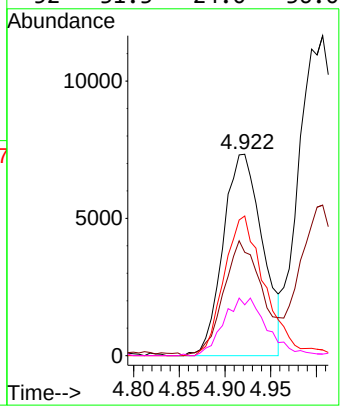


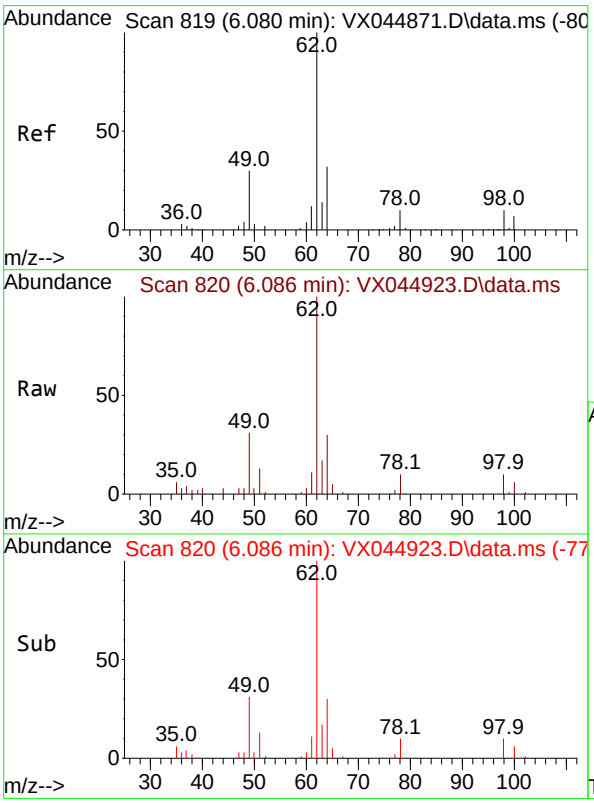
#41
Methacrylonitrile
Concen: 19.301 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 41 Resp: 22027

Ion	Ratio	Lower	Upper
41	100		
39	57.9	43.1	64.7
67	72.5	57.0	85.6
52	31.3	24.0	36.0

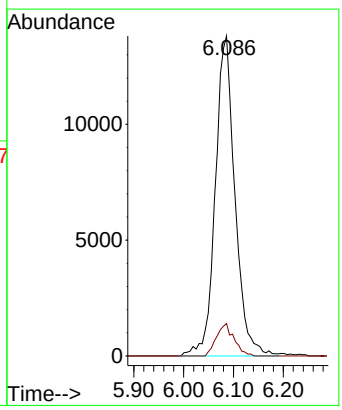


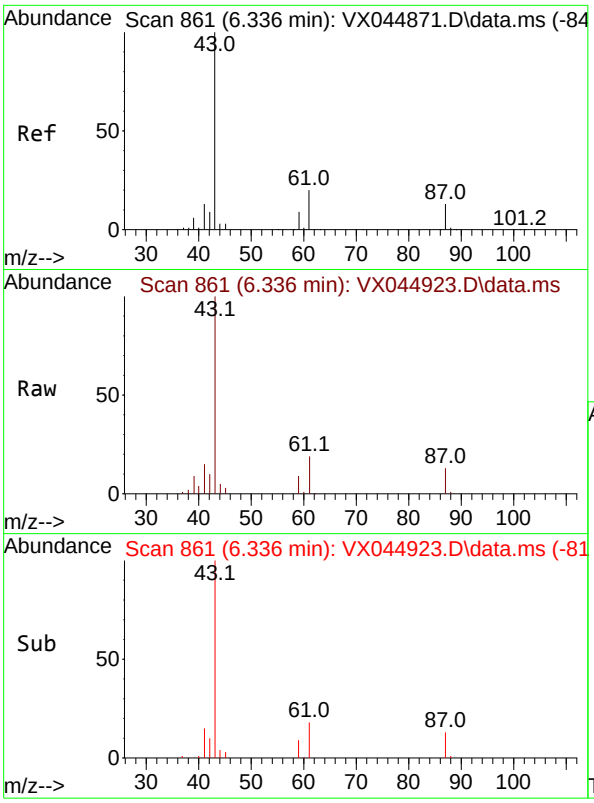


#42
1,2-Dichloroethane
Concen: 19.811 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 62 Resp: 37792

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	19.4



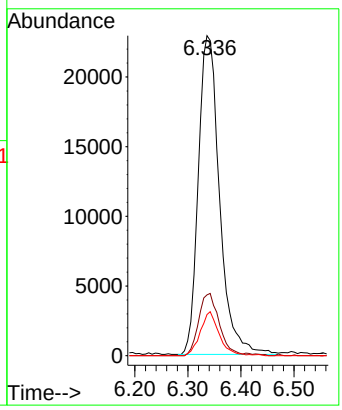


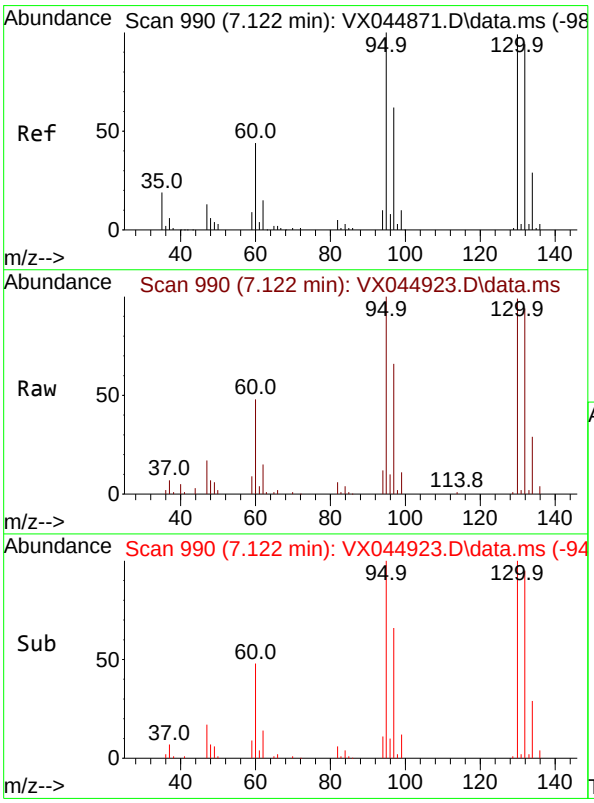
#43
Isopropyl Acetate
Concen: 18.459 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 43 Resp: 63554

Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.8	23.8
87	12.3	10.0	15.0

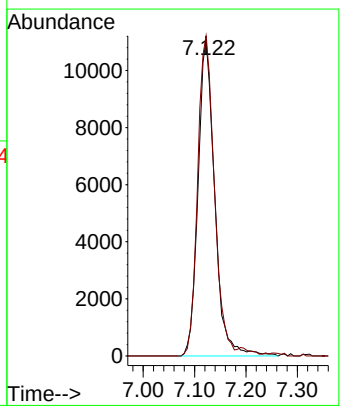


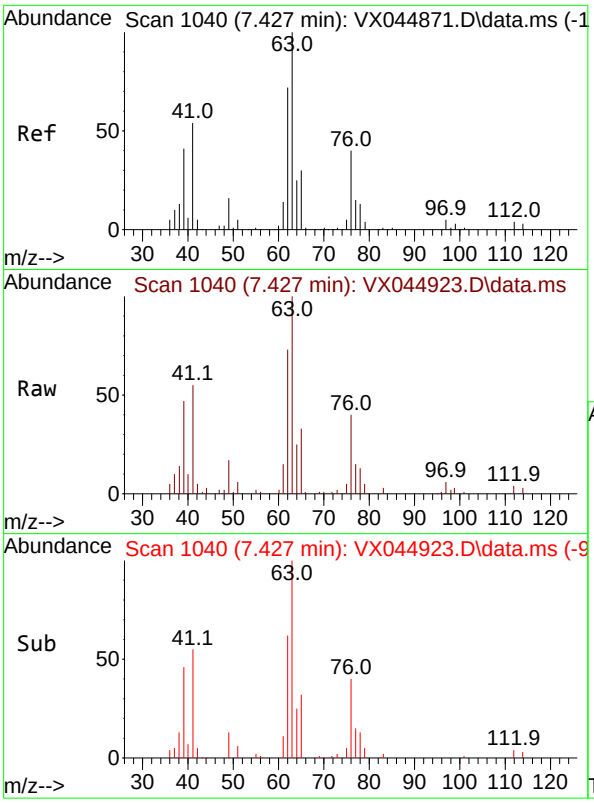


#44
Trichloroethene
Concen: 18.239 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:130 Resp: 24953

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	202.4



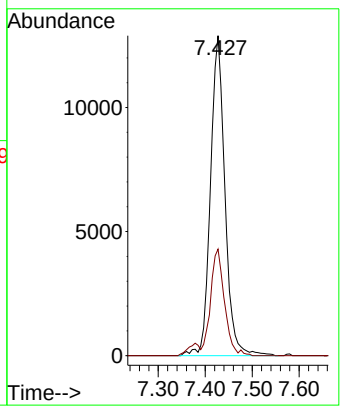


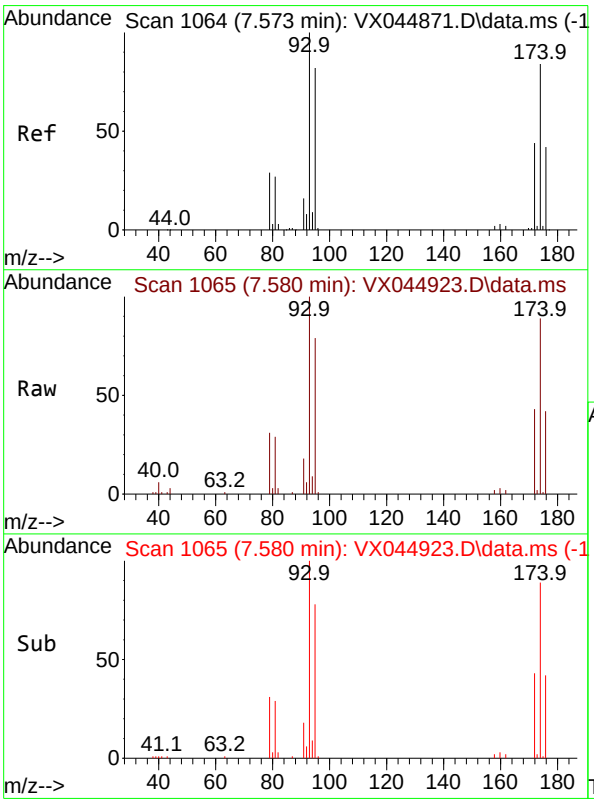
#45
1,2-Dichloropropane
Concen: 18.543 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 63 Resp: 27612

Ion	Ratio	Lower	Upper
63	100		
65	33.3	24.2	36.4

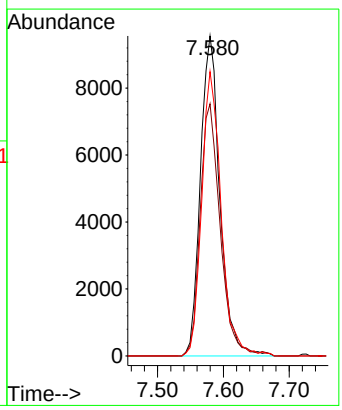


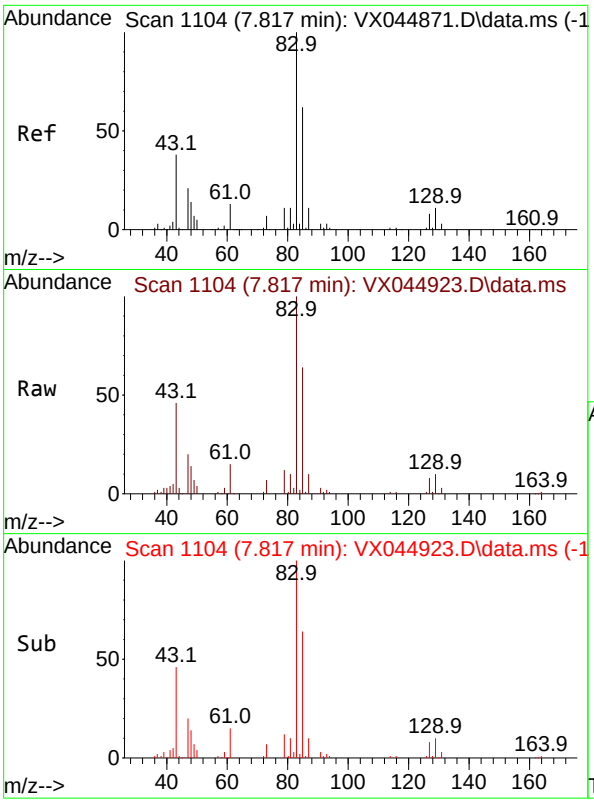


#46
Dibromomethane
Concen: 19.049 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 93 Resp: 19672

Ion	Ratio	Lower	Upper
93	100		
95	80.6	66.2	99.4
174	88.7	69.9	104.9



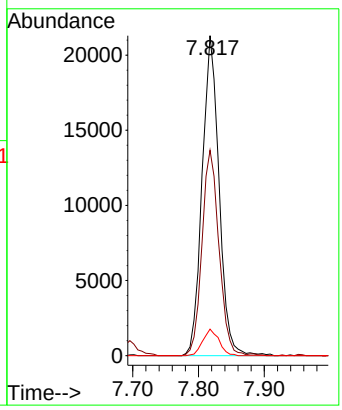


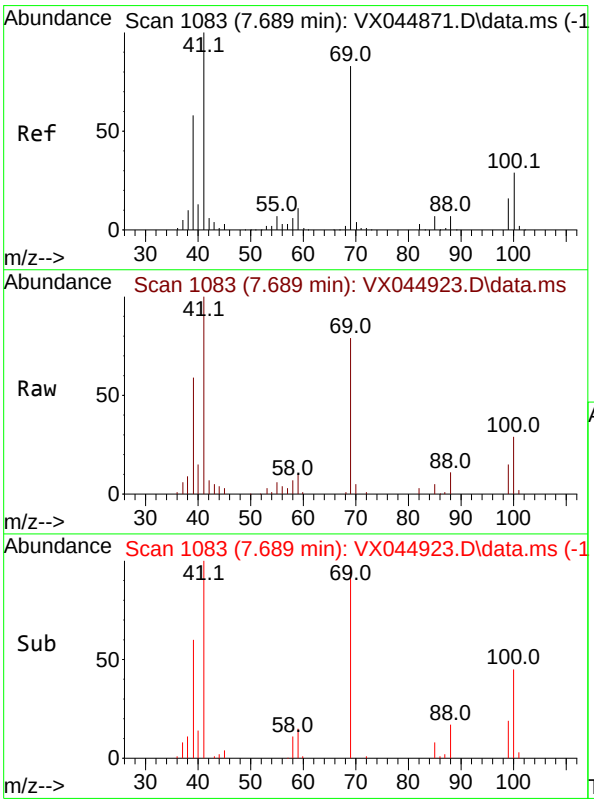
#47
Bromodichloromethane
Concen: 19.124 ug/l
RT: 7.817 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 83 Resp: 38240

Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.0	75.0
127	8.3	6.4	9.6

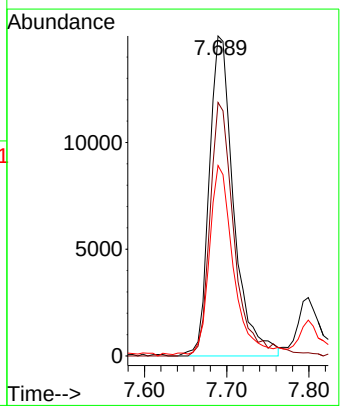


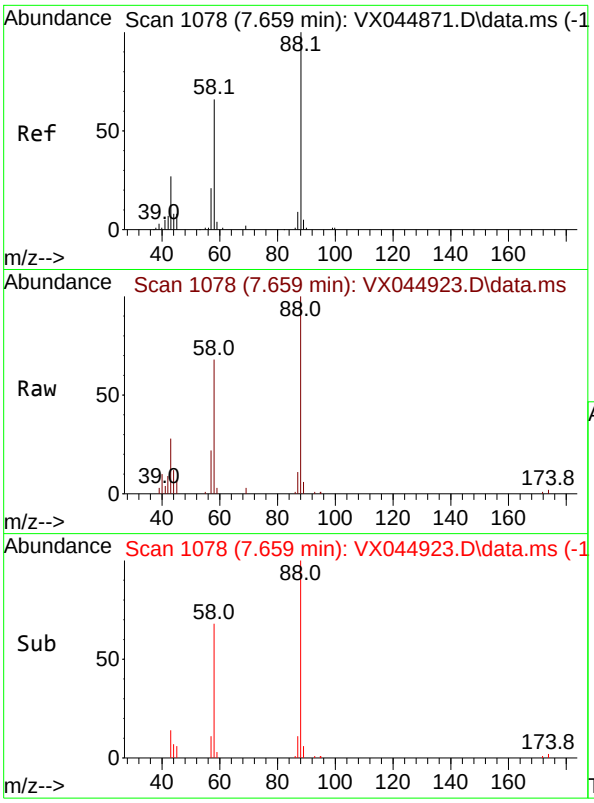


#48
Methyl methacrylate
Concen: 19.106 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 41 Resp: 31017

Ion	Ratio	Lower	Upper
41	100		
69	79.0	65.8	98.8
39	59.8	46.4	69.6



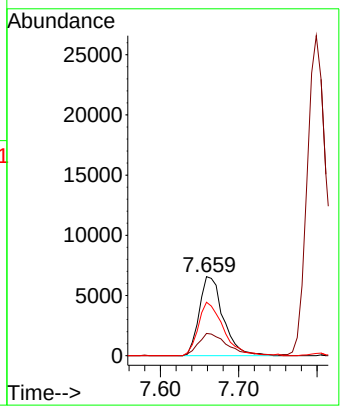


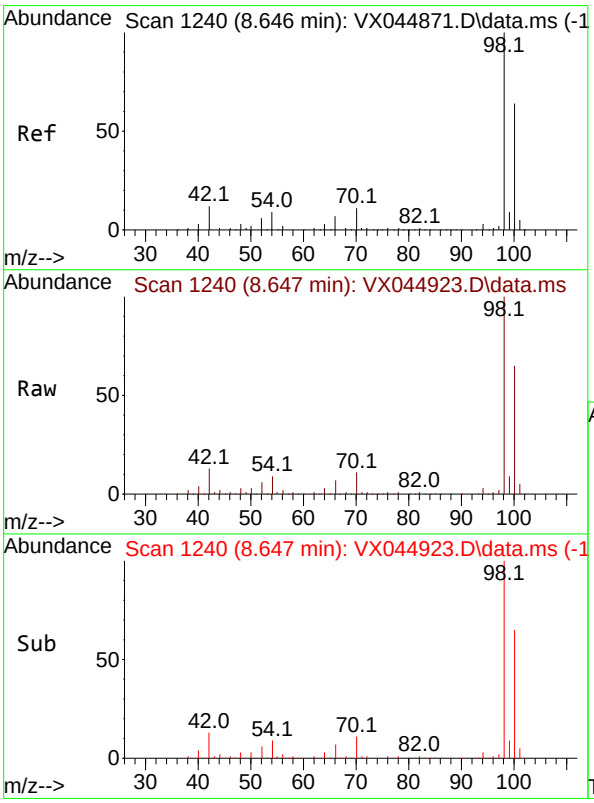
#49
1,4-Dioxane
Concen: 399.801 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 88 Resp: 13925

Ion	Ratio	Lower	Upper
88	100		
43	34.8	26.6	39.8
58	70.8	55.9	83.9

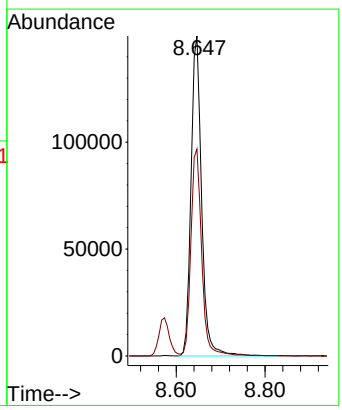


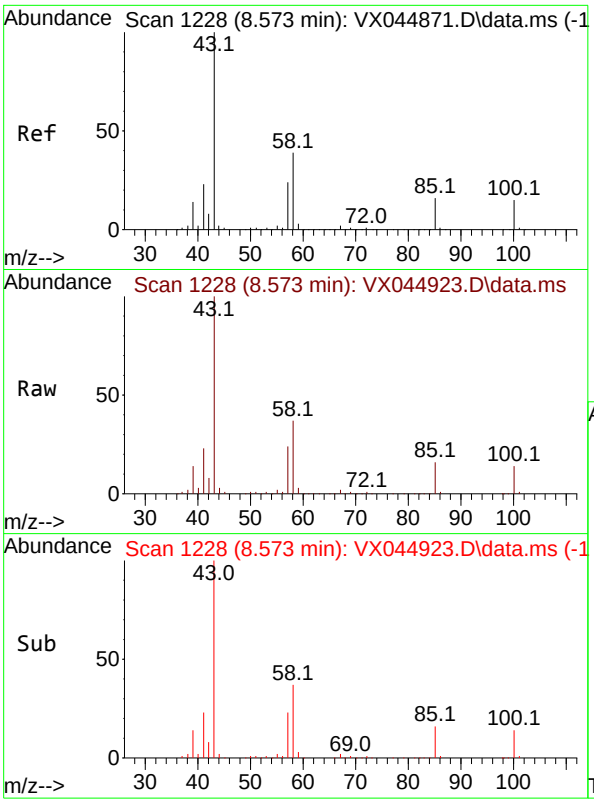


#50
Toluene-d8
Concen: 49.174 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 98 Resp: 247053

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.7	79.1



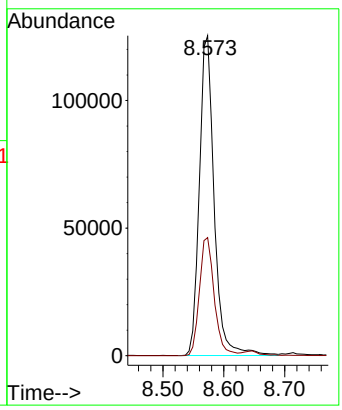


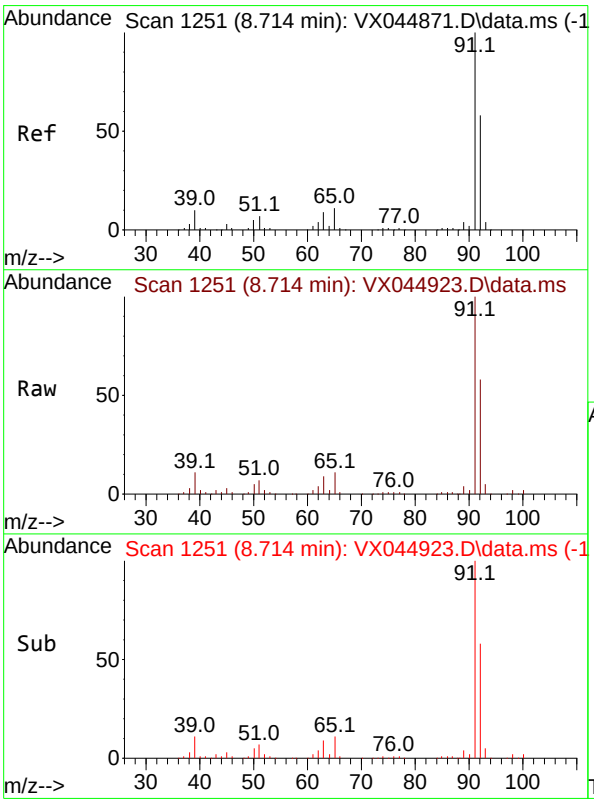
#51
4-Methyl-2-Pentanone
Concen: 101.236 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 43 Resp: 211899

Ion	Ratio	Lower	Upper
43	100		
58	37.0	30.8	46.2

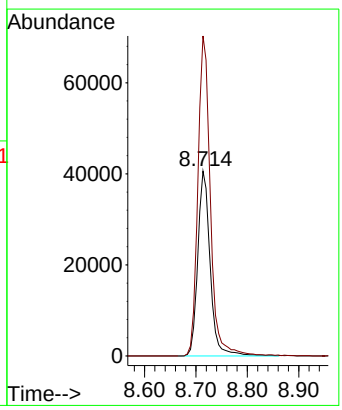


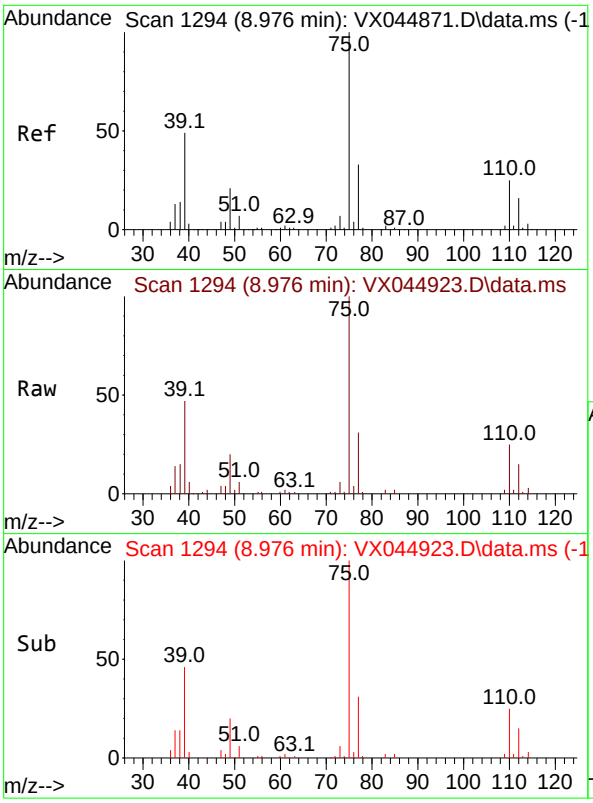


#52
Toluene
Concen: 19.058 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 92 Resp: 67935

Ion	Ratio	Lower	Upper
92	100		
91	173.9	137.4	206.2



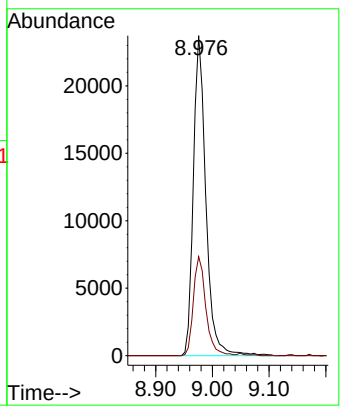


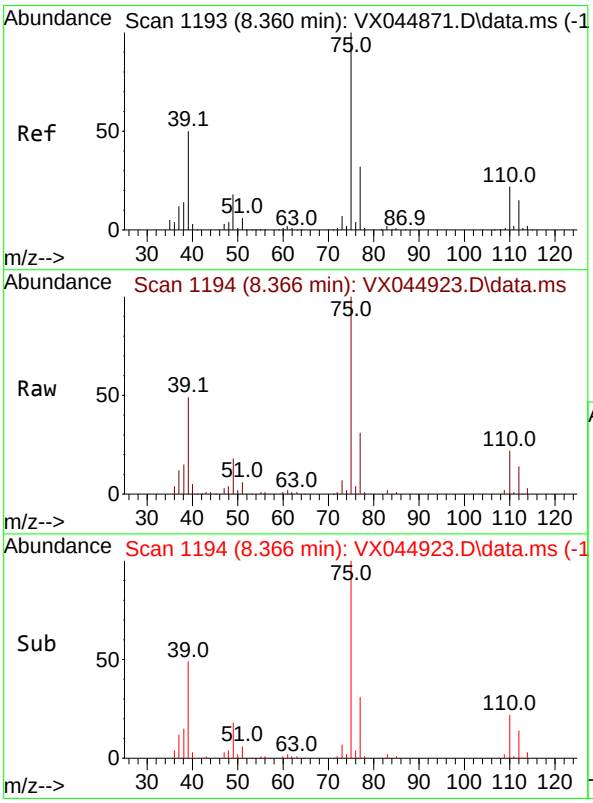
#53
t-1,3-Dichloropropene
Concen: 17.962 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 75 Resp: 36346

Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.0	39.0

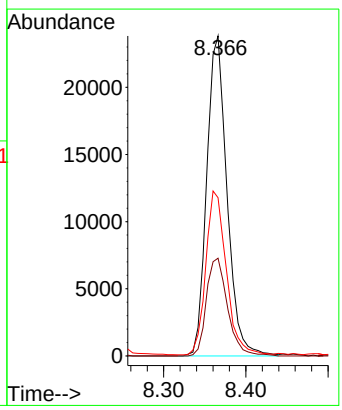


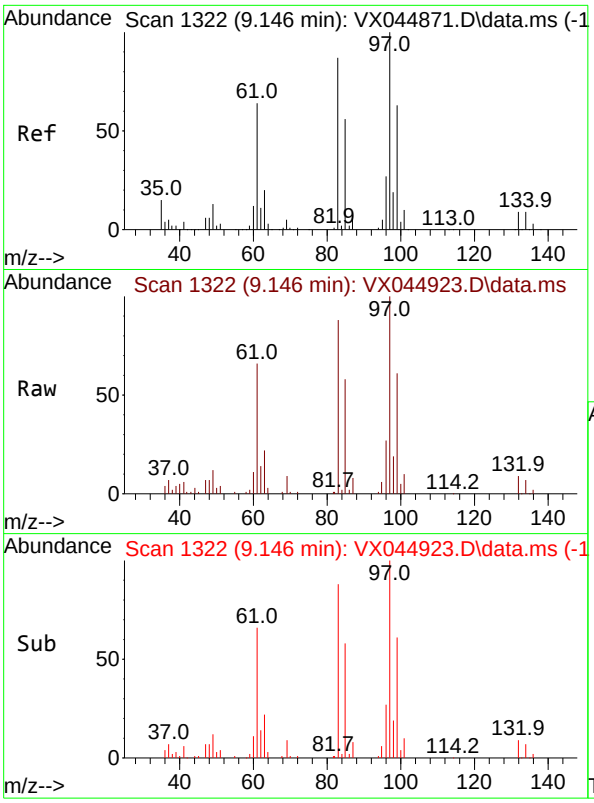


#54
cis-1,3-Dichloropropene
Concen: 18.104 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 40844

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.3	37.9
39	49.1	40.0	60.0



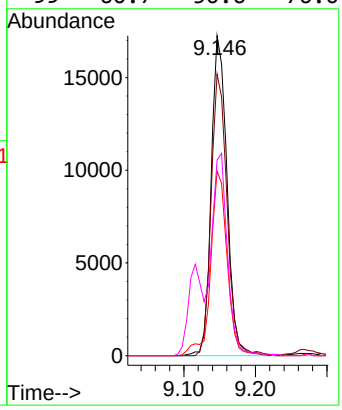


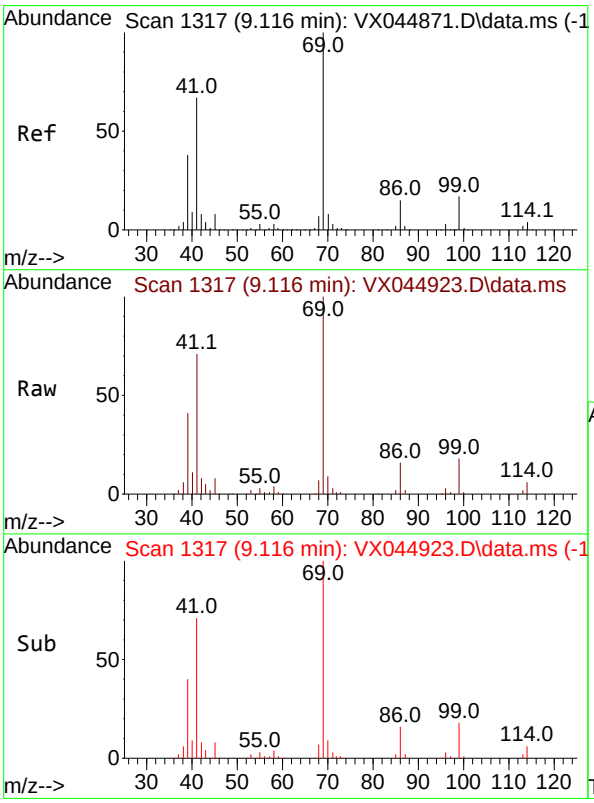
#55
1,1,2-Trichloroethane
Concen: 19.190 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 97 Resp: 26296

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.8	104.6
85	57.7	44.8	67.2
99	60.7	50.6	76.0

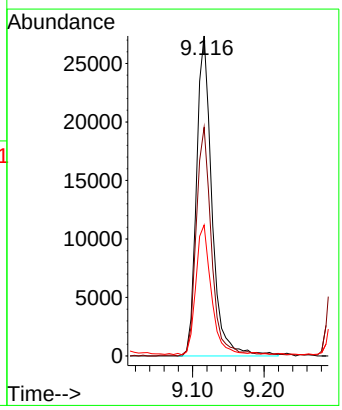


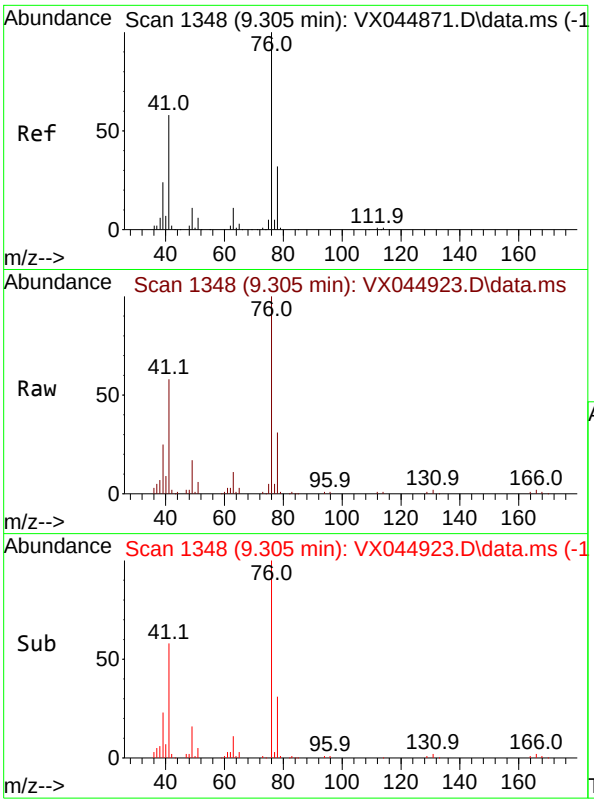


#56
Ethyl methacrylate
Concen: 18.516 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 69 Resp: 40980

Ion	Ratio	Lower	Upper
69	100		
41	71.0	55.2	82.8
39	40.4	30.8	46.2



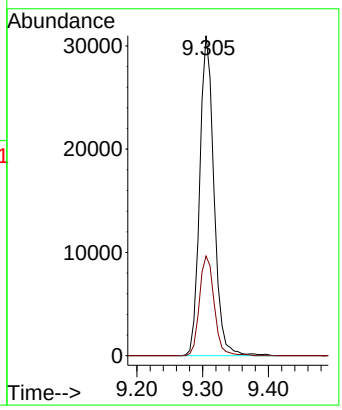


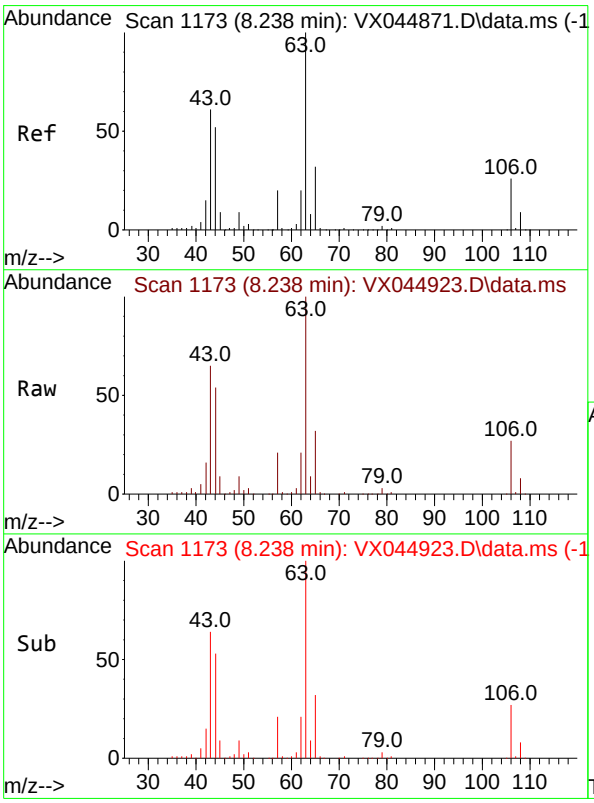
#57
1,3-Dichloropropane
Concen: 19.438 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 76 Resp: 46604

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8

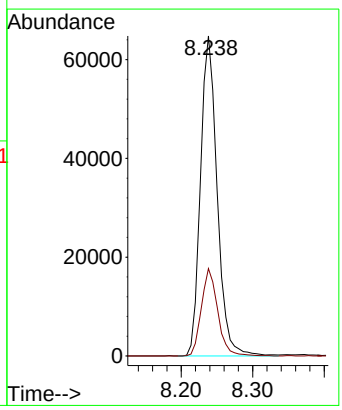


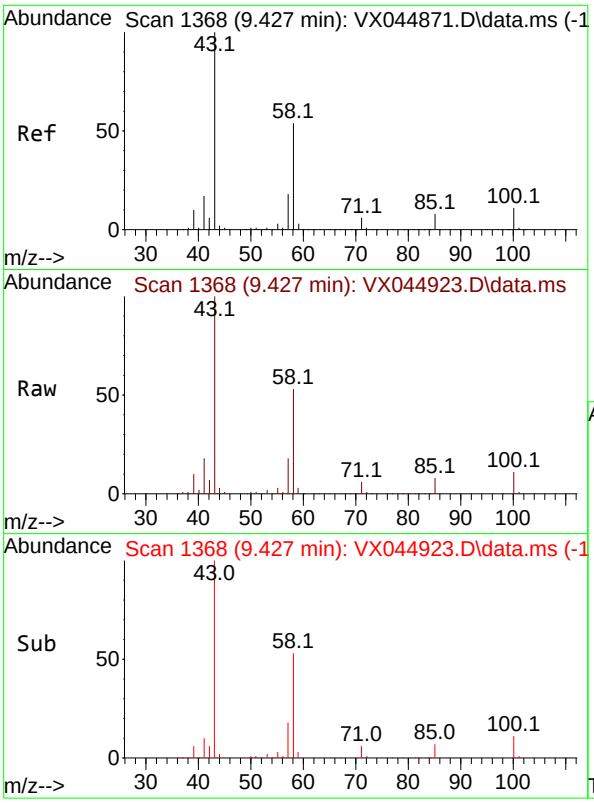


#58
2-Chloroethyl Vinyl ether
Concen: 96.581 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 63 Resp: 104955

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.3	31.9



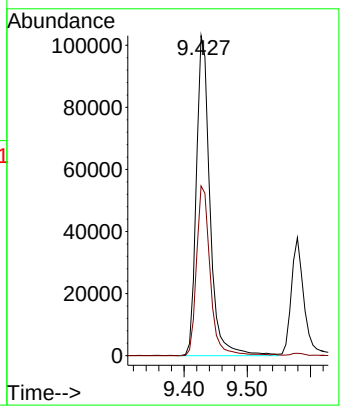


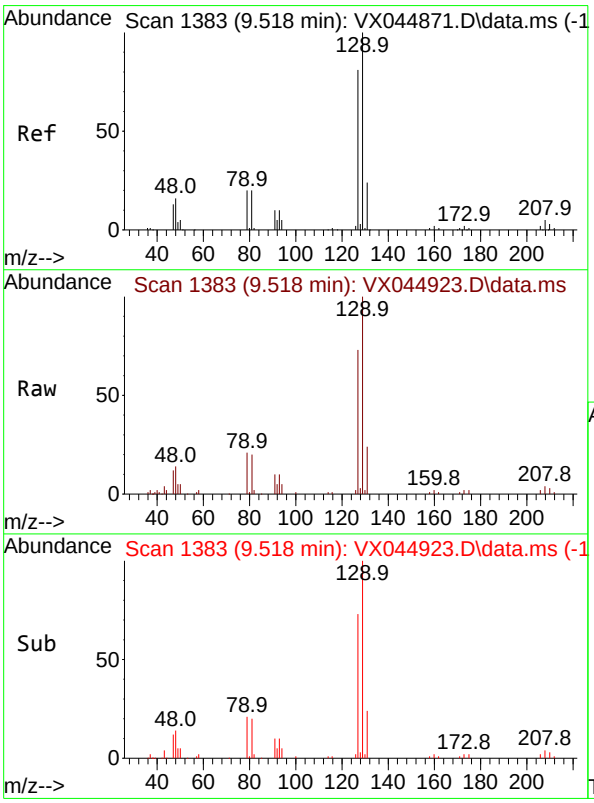
#59
2-Hexanone
Concen: 102.550 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 43 Resp: 154657

Ion	Ratio	Lower	Upper
43	100		
58	53.5	27.5	82.4

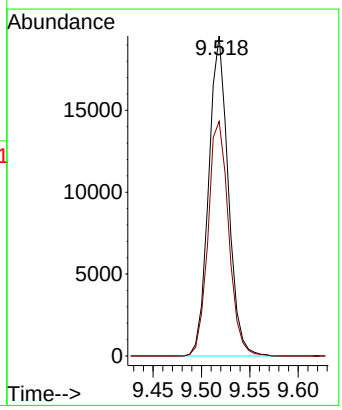


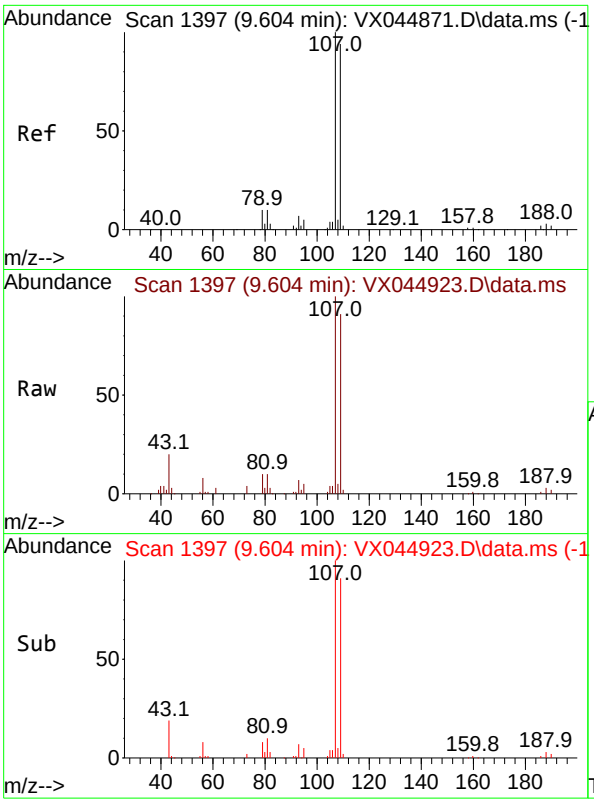


#60
Dibromochloromethane
Concen: 18.788 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:129 Resp: 27533

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.1	117.3



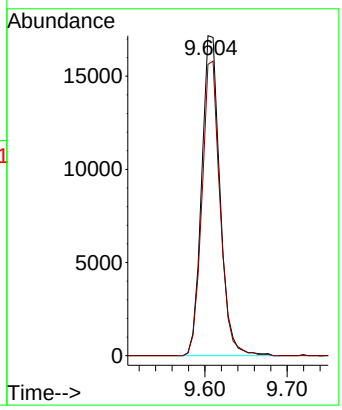


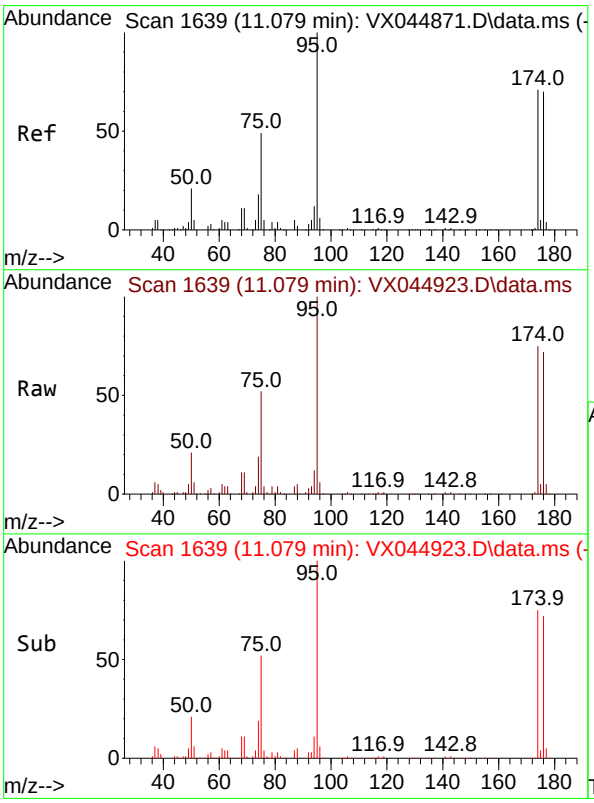
#61
1,2-Dibromoethane
Concen: 19.115 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:107 Resp: 26548

Ion	Ratio	Lower	Upper
107	100		
109	91.3	75.9	113.9

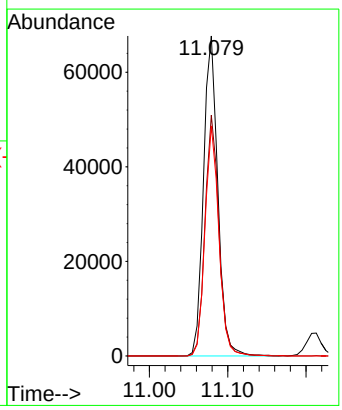


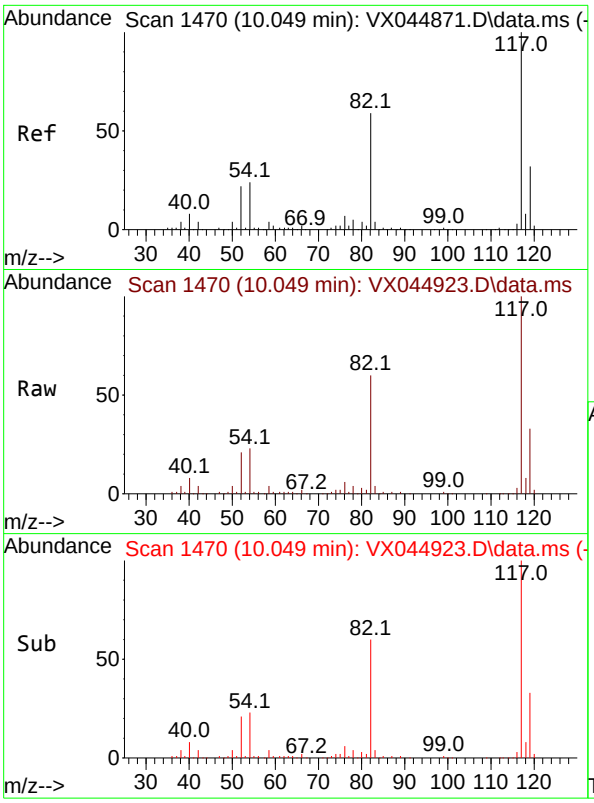


#62
4-Bromofluorobenzene
Concen: 50.570 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 95 Resp: 85651

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	142.6
176	69.9	0.0	141.6



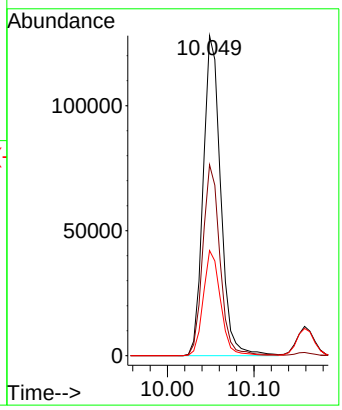


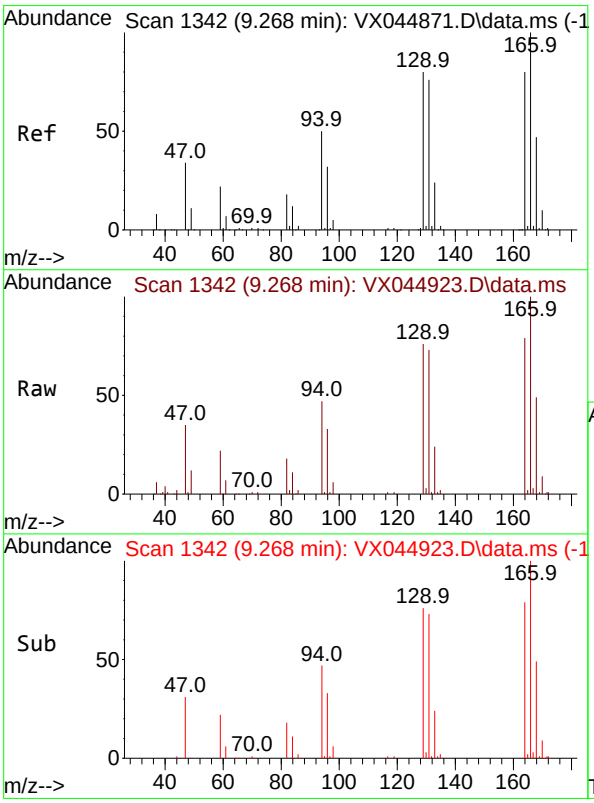
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:117 Resp: 179478

Ion	Ratio	Lower	Upper
117	100		
82	59.6	47.5	71.3
119	32.9	25.4	38.0

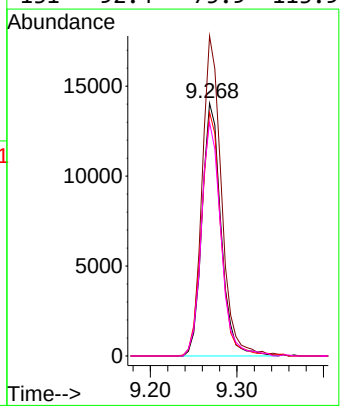


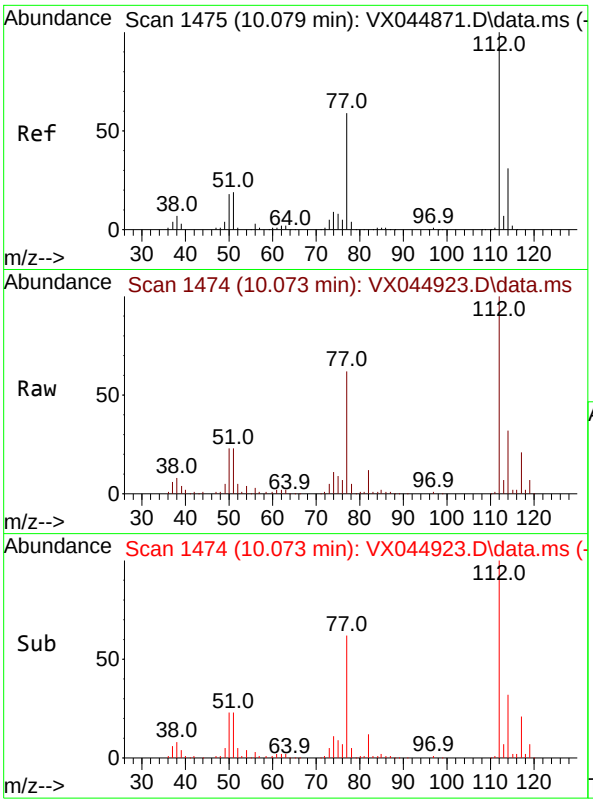


#64
Tetrachloroethene
Concen: 18.903 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:164 Resp: 21396

Ion	Ratio	Lower	Upper
164	100		
166	126.6	100.4	150.6
129	96.4	79.9	119.9
131	92.4	75.9	113.9



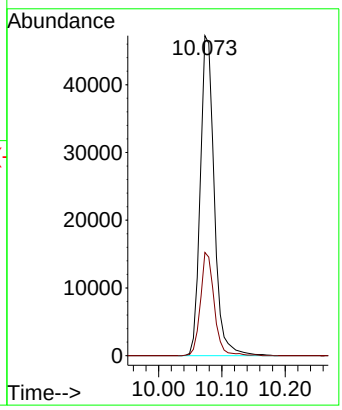


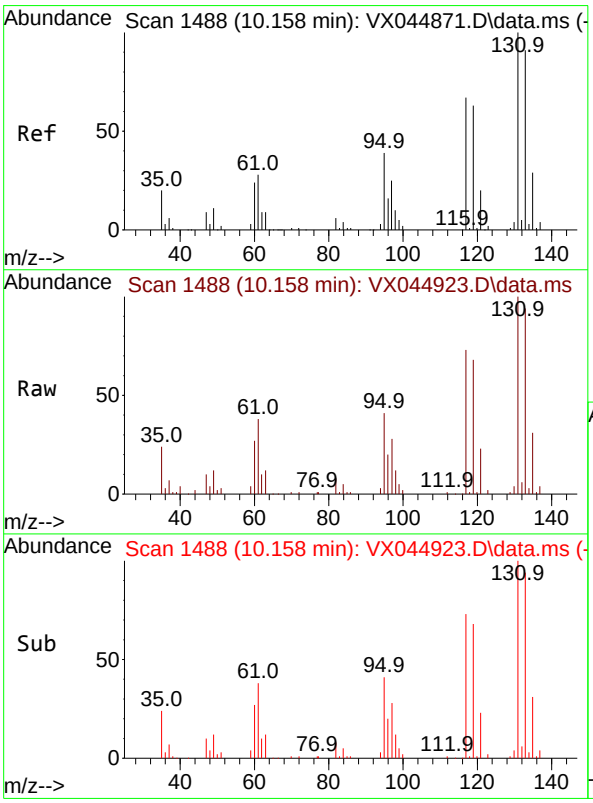
#65
Chlorobenzene
Concen: 18.857 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:112 Resp: 72694

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.6

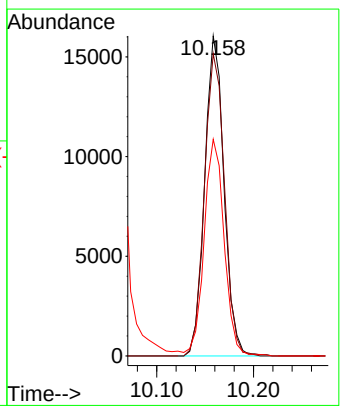


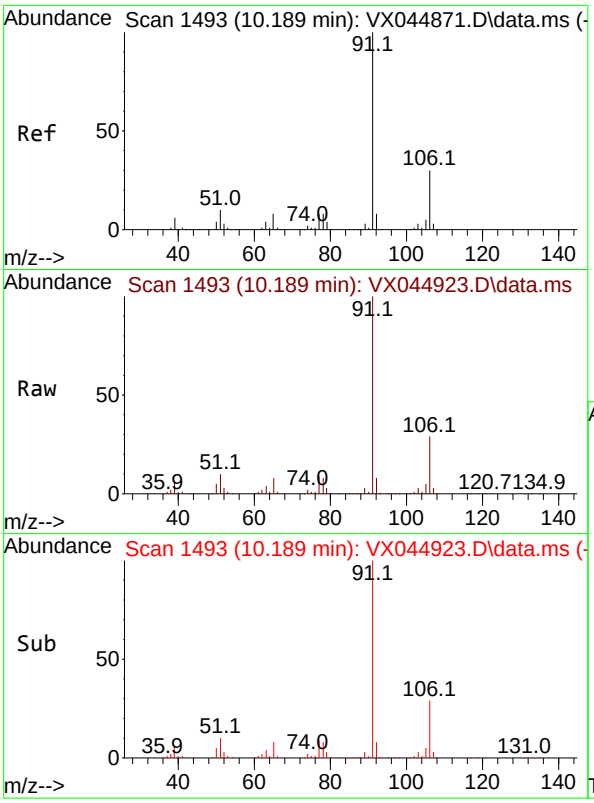


#66
1,1,1,2-Tetrachloroethane
Concen: 17.968 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:131 Resp: 22294

Ion	Ratio	Lower	Upper
131	100		
133	98.2	47.1	141.3
119	70.1	33.6	100.6



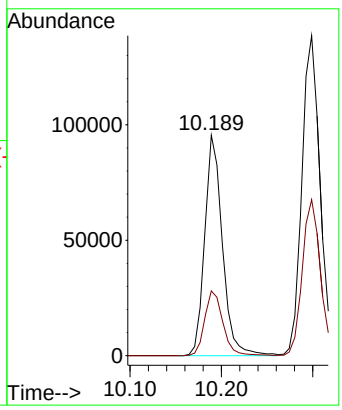


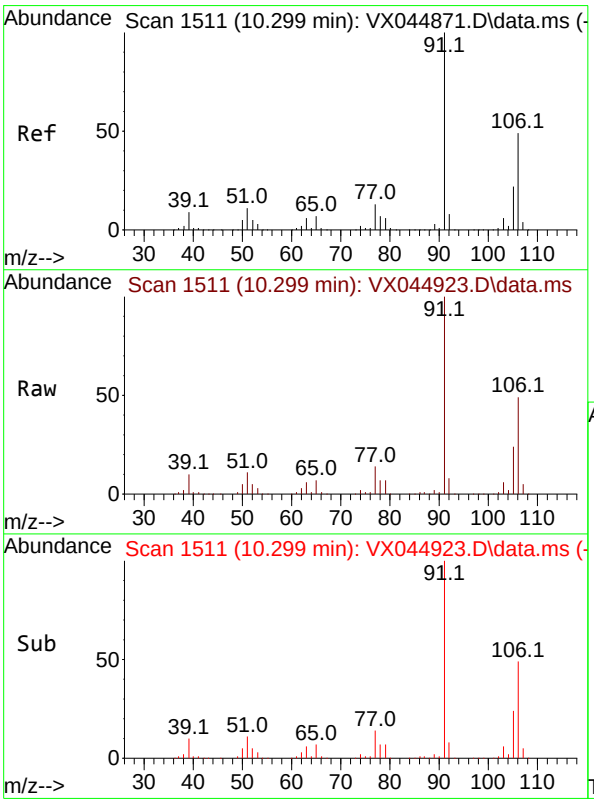
#67
Ethyl Benzene
Concen: 18.879 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 91 Resp: 128430

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.9	35.9

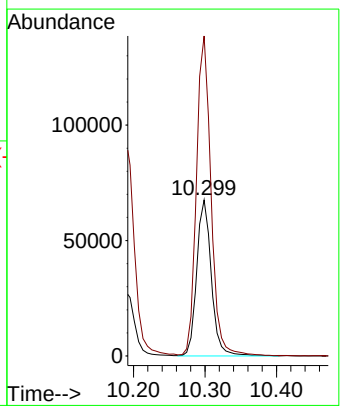


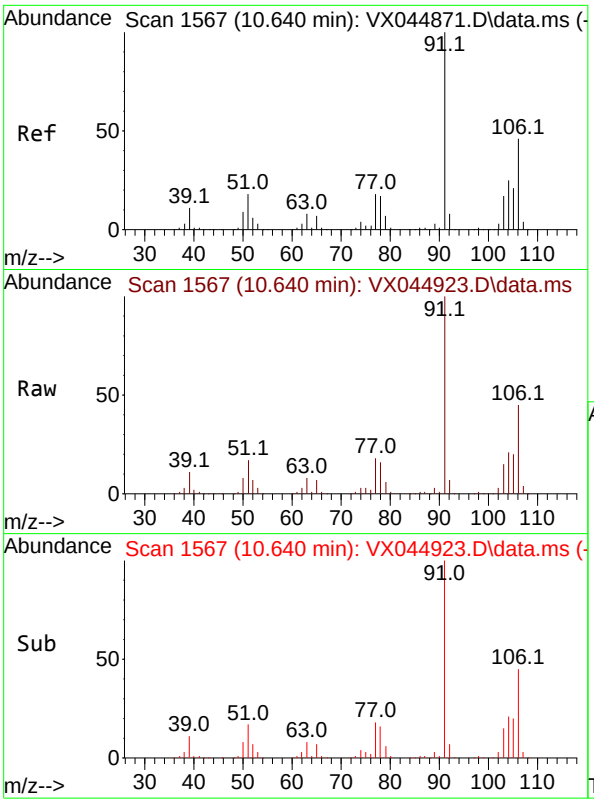


#68
m/p-Xylenes
Concen: 38.291 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:106 Resp: 96088

Ion	Ratio	Lower	Upper
106	100		
91	203.7	164.3	246.5



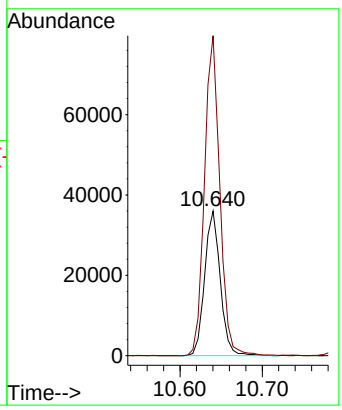


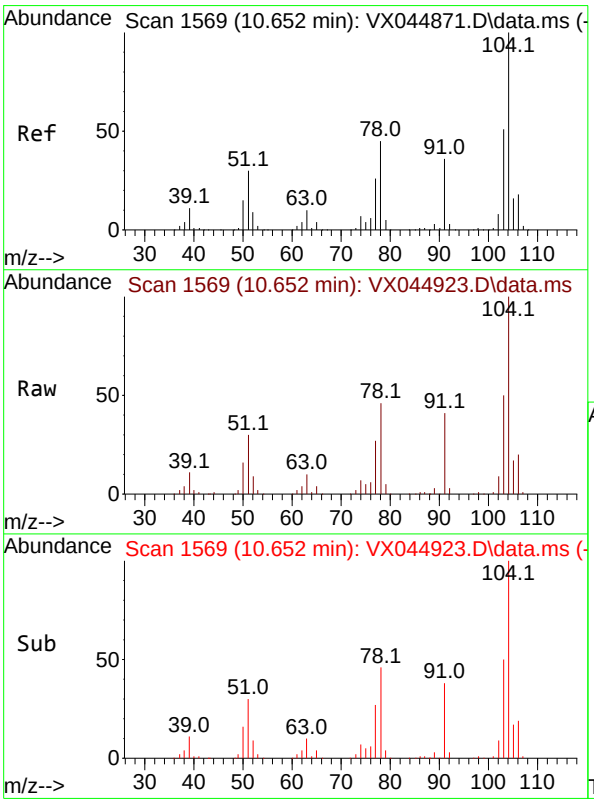
#69
o-Xylene
Concen: 18.878 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:106 Resp: 47534

Ion	Ratio	Lower	Upper
106	100		
91	217.4	108.5	325.5

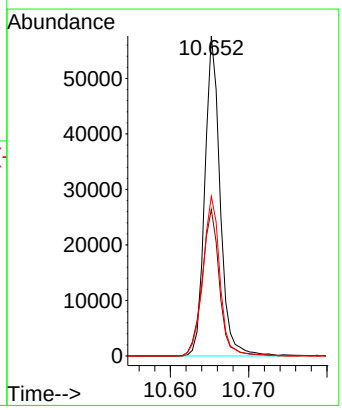


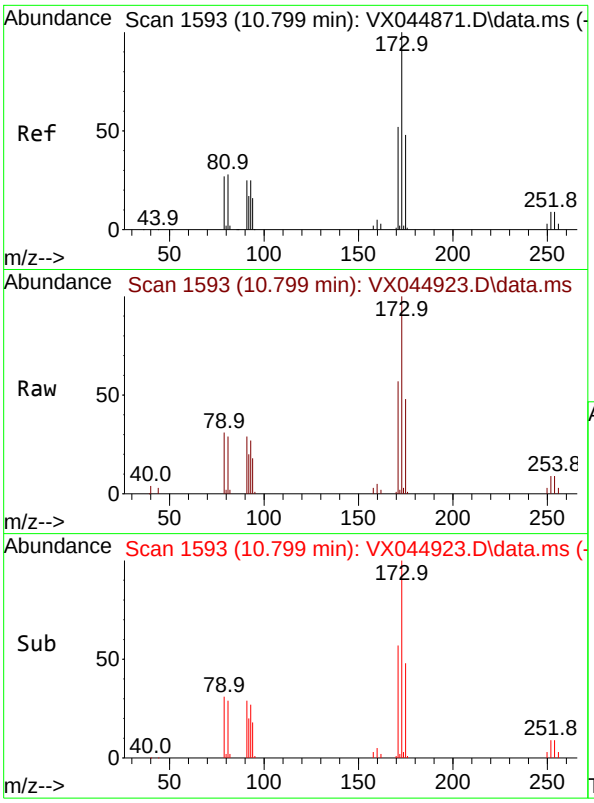


#70
Styrene
Concen: 19.298 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:104 Resp: 78288

Ion	Ratio	Lower	Upper
104	100		
78	51.6	40.5	60.7
103	55.1	43.6	65.4



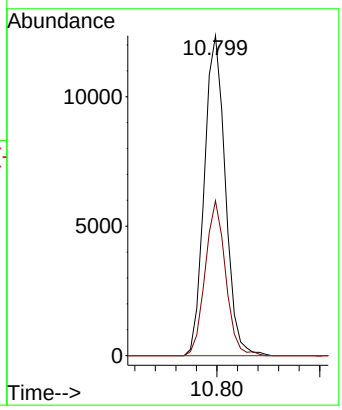


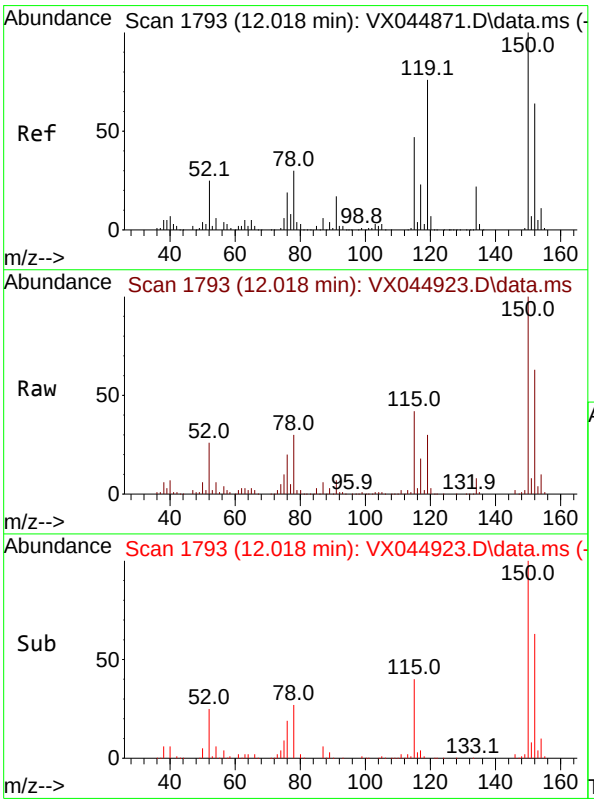
#71
Bromoform
Concen: 18.936 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:173 Resp: 17535

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.3	72.8
254	0.0	0.0	0.0

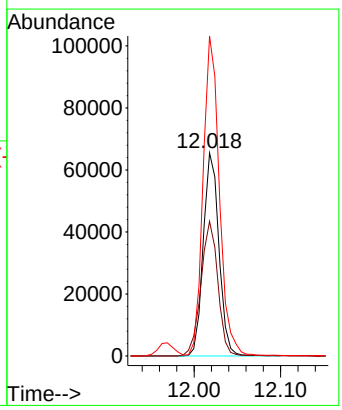


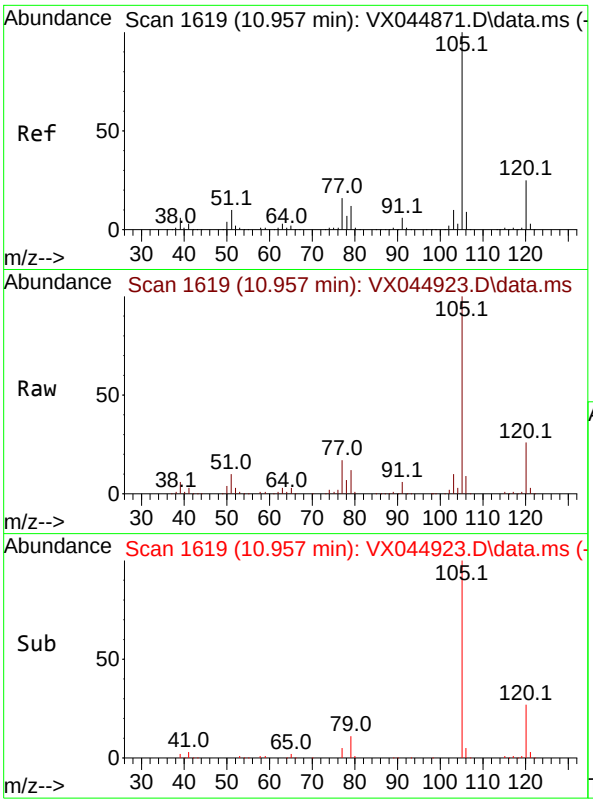


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:152 Resp: 82301

Ion	Ratio	Lower	Upper
152	100		
115	71.3	43.4	130.1
150	162.8	0.0	350.4



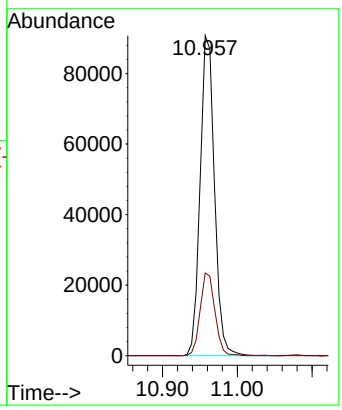


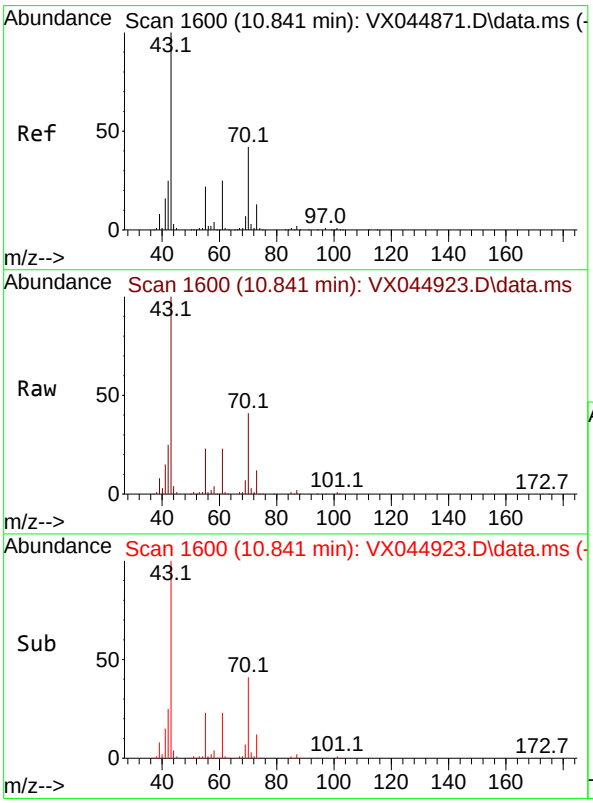
#73
Isopropylbenzene
Concen: 18.252 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:105 Resp: 120952

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5

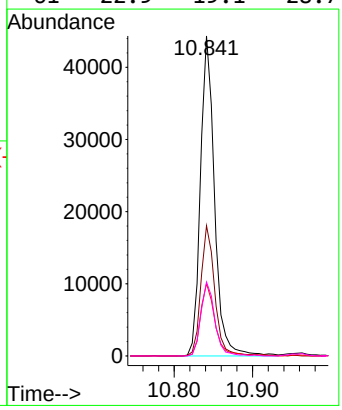


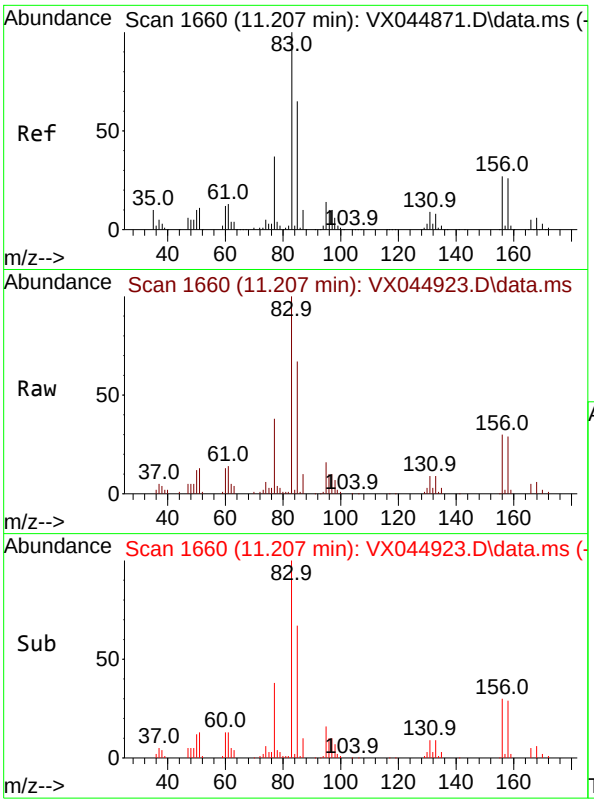


#74
N-amyl acetate
Concen: 18.514 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 43 Resp: 55519

Ion	Ratio	Lower	Upper
43	100		
70	40.3	33.7	50.5
55	23.3	18.6	27.8
61	22.9	19.1	28.7



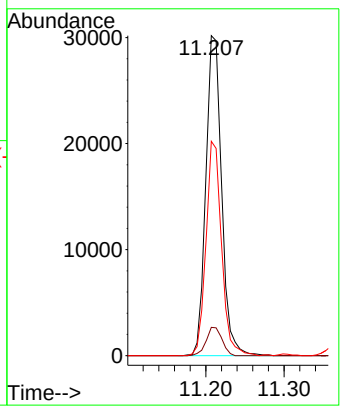


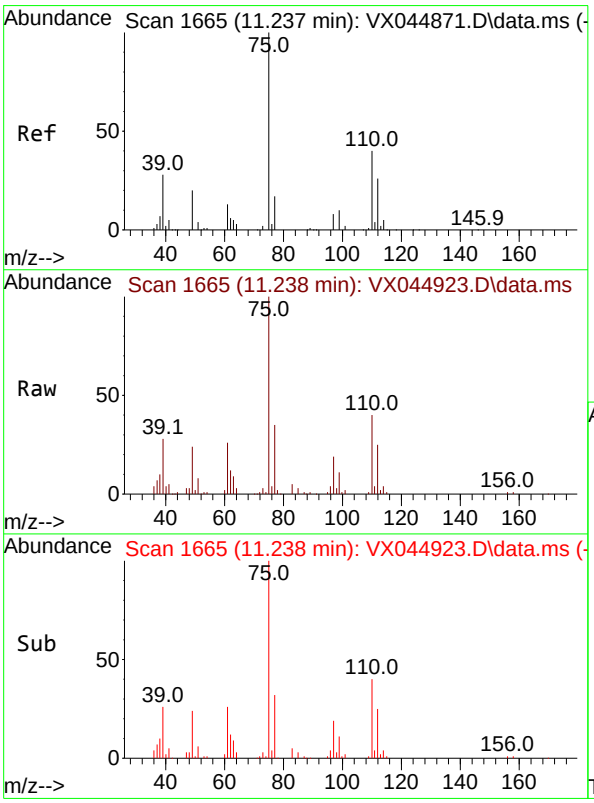
#75
1,1,2,2-Tetrachloroethane
Concen: 18.556 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 83 Resp: 42256

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.5
85	65.8	32.3	96.8

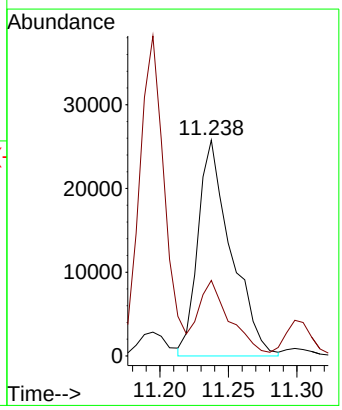


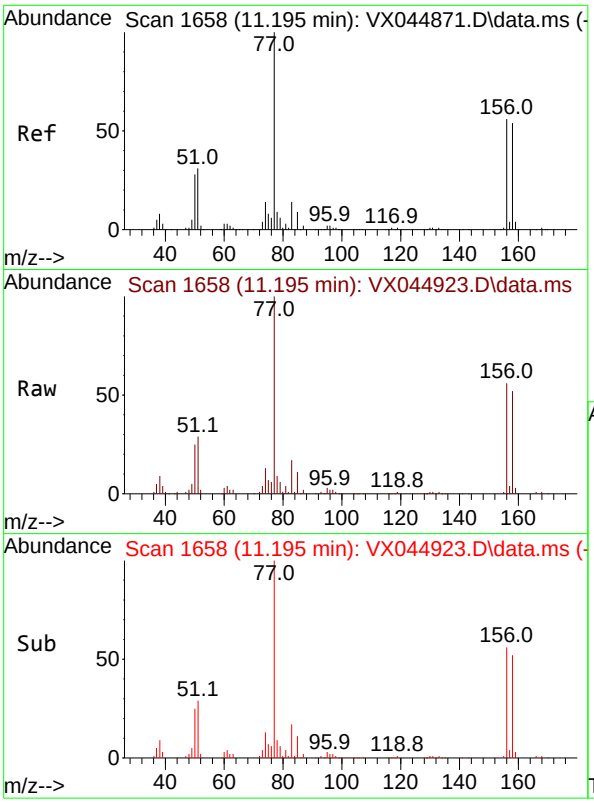


#76
1,2,3-Trichloropropane
Concen: 23.737 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 43314

Ion	Ratio	Lower	Upper
75	100		
77	33.5	21.9	65.7



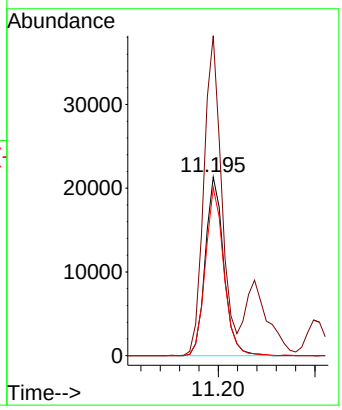


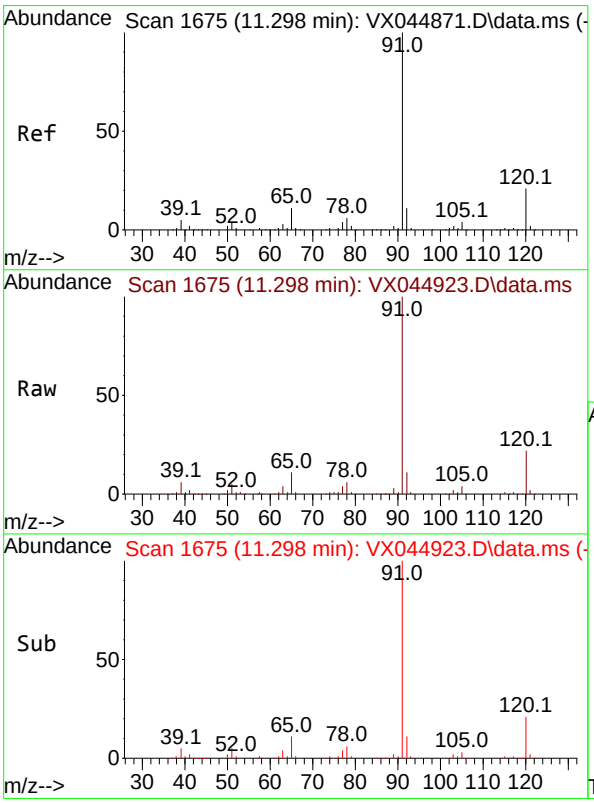
#77
Bromobenzene
Concen: 18.742 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:156 Resp: 28158

Ion	Ratio	Lower	Upper
156	100		
77	172.7	88.4	265.3
158	94.6	48.4	145.2

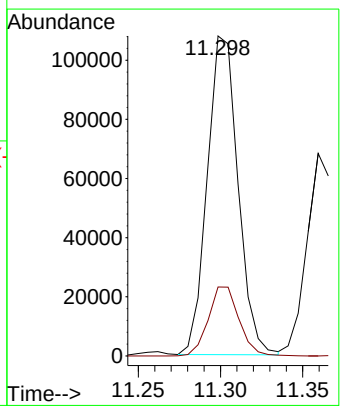


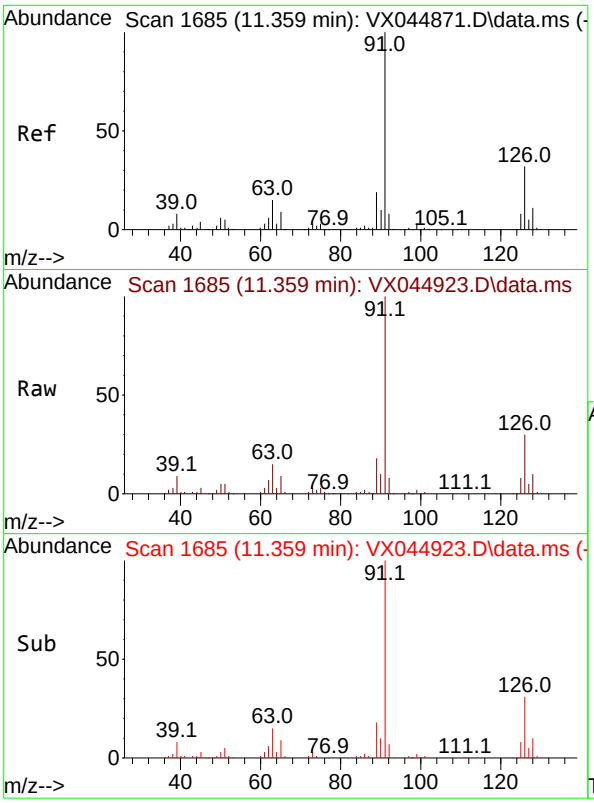


#78
n-propylbenzene
Concen: 18.361 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 91 Resp: 140438

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.1	33.3



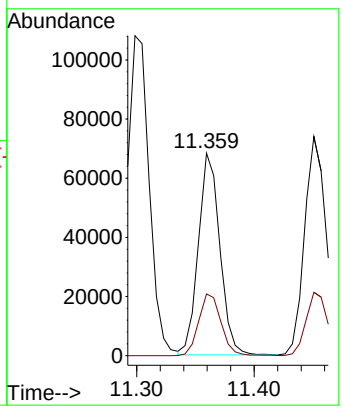


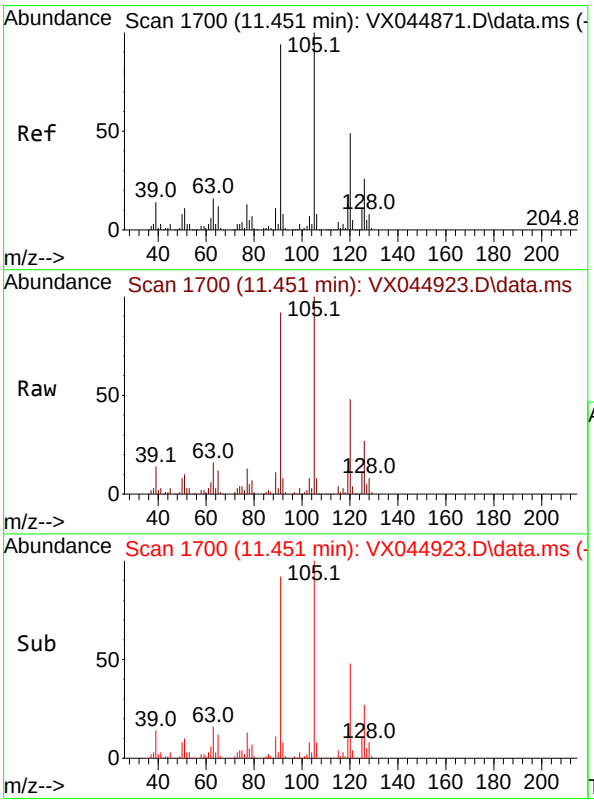
#79
2-Chlorotoluene
Concen: 18.425 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 91 Resp: 86613

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.2	48.6

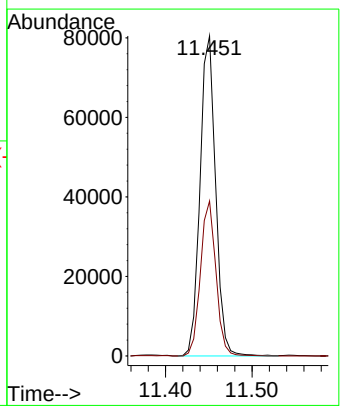


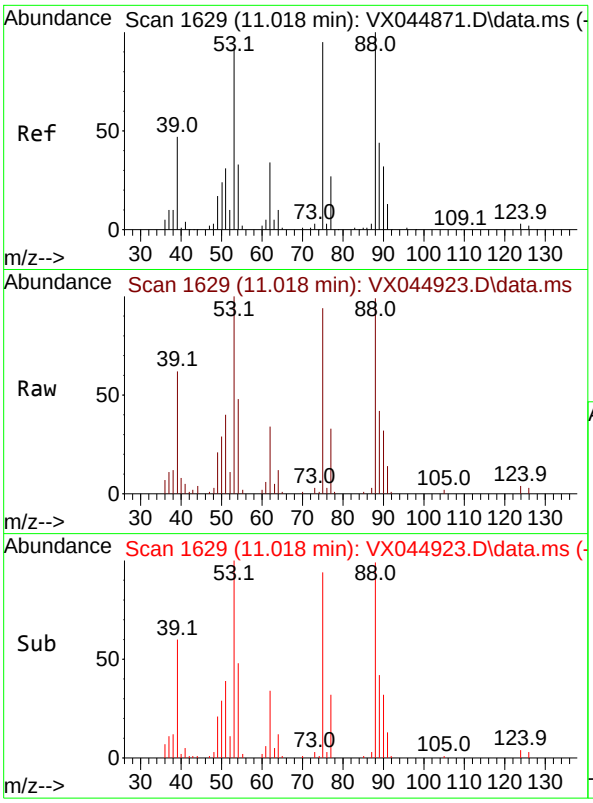


#80
1,3,5-Trimethylbenzene
Concen: 18.723 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:105 Resp: 100686

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0



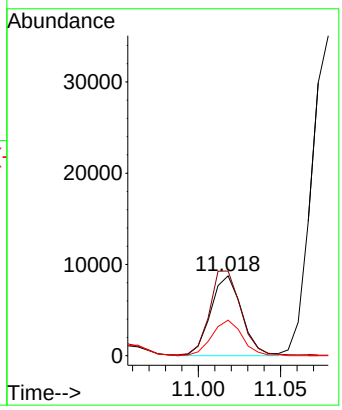


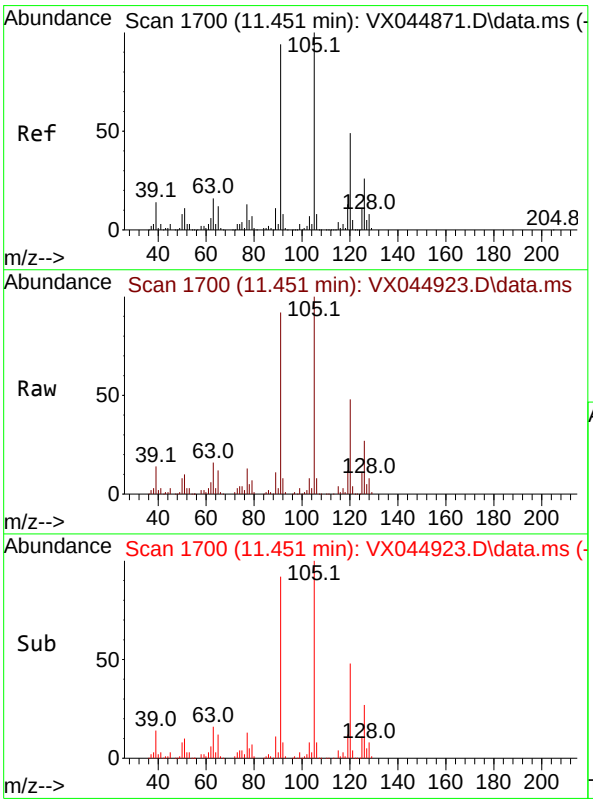
#81
trans-1,4-Dichloro-2-butene
Concen: 16.247 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 75 Resp: 11525

Ion	Ratio	Lower	Upper
75	100		
53	108.3	78.0	117.0
89	43.4	36.6	54.8

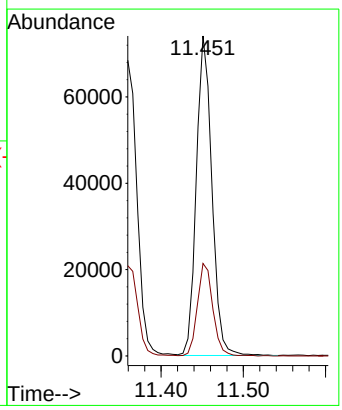


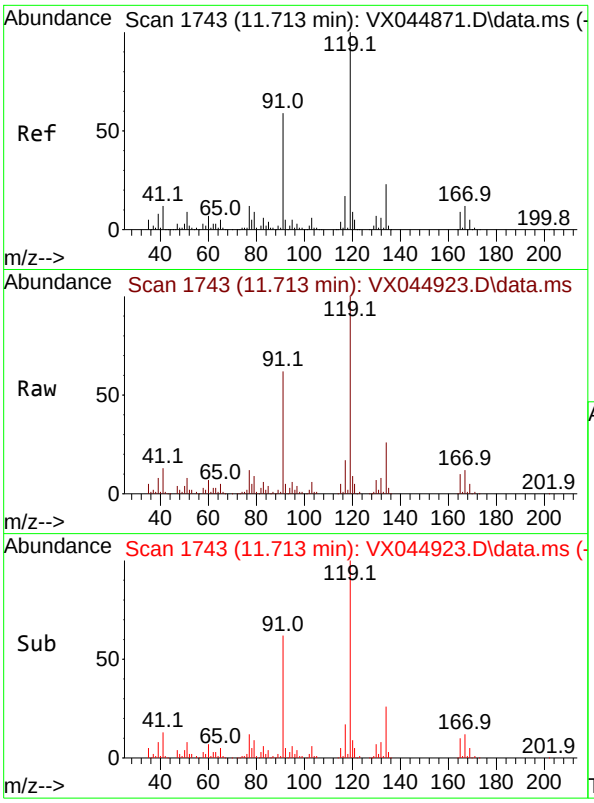


#82
4-Chlorotoluene
Concen: 18.692 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 91 Resp: 97212

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6



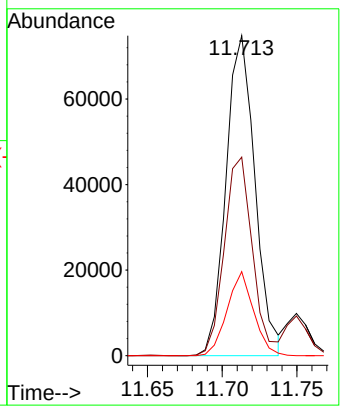


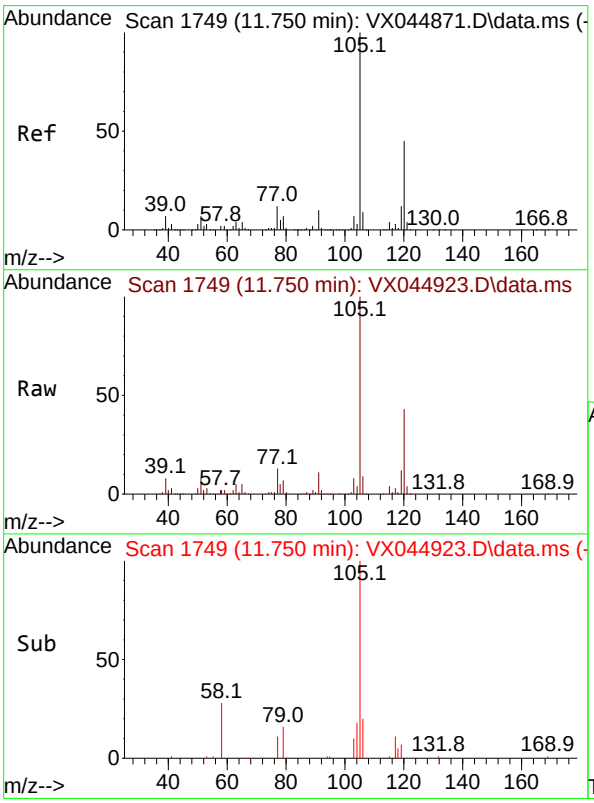
#83
tert-Butylbenzene
Concen: 18.560 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:119 Resp: 100970

Ion	Ratio	Lower	Upper
119	100		
91	60.6	29.1	87.4
134	24.0	11.5	34.5

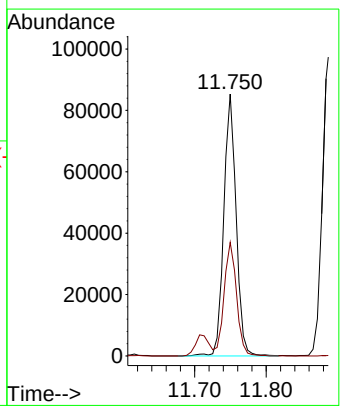


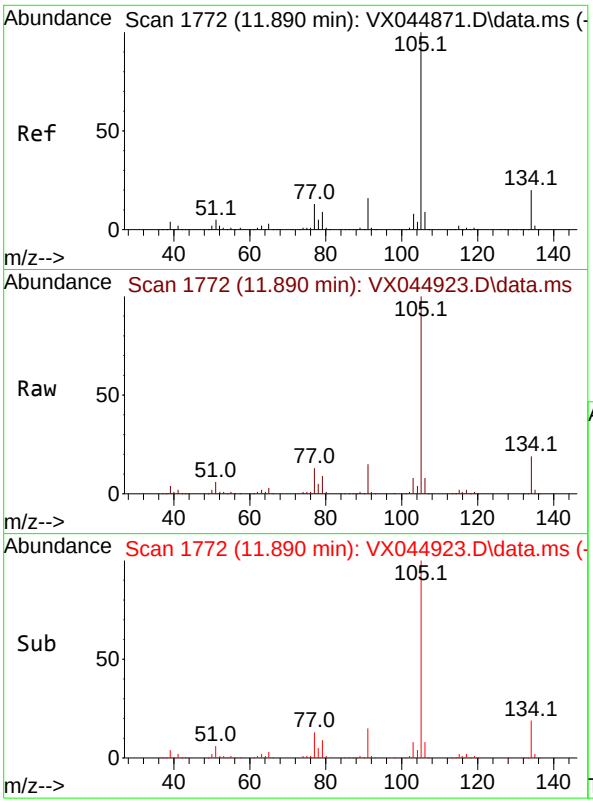


#84
1,2,4-Trimethylbenzene
Concen: 19.309 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:105 Resp: 102485

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.4	67.0



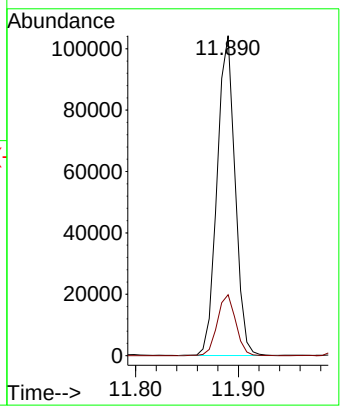


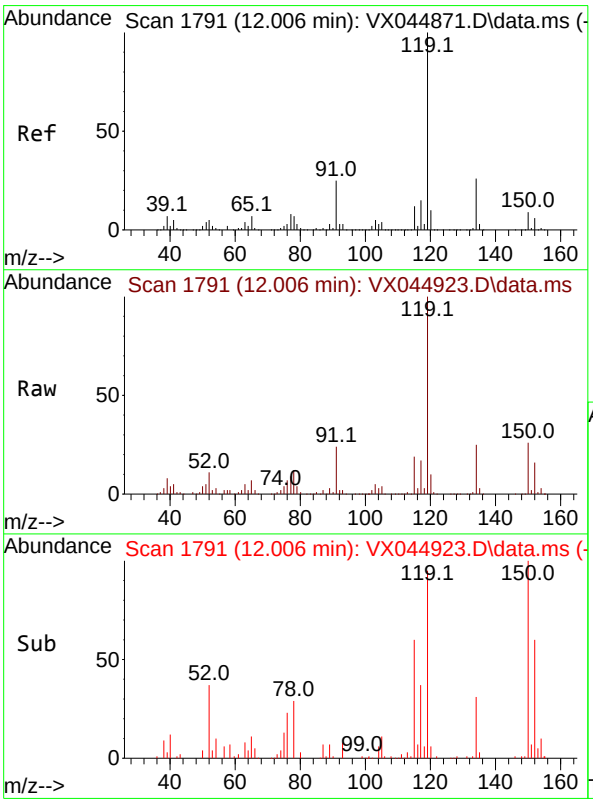
#85
sec-Butylbenzene
Concen: 18.725 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:105 Resp: 126144

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3

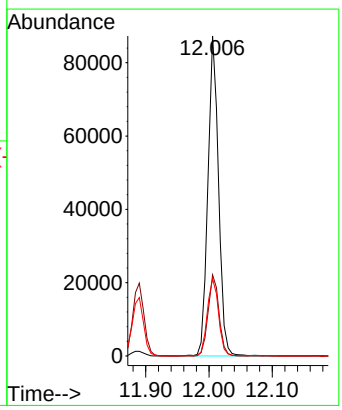


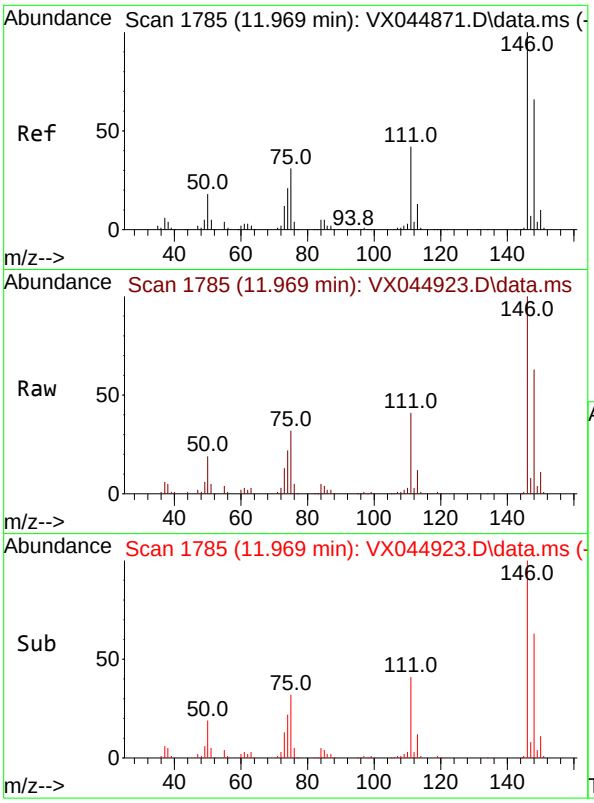


#86
p-Isopropyltoluene
Concen: 18.873 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:119 Resp: 102245

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	38.9
91	25.5	12.1	36.3



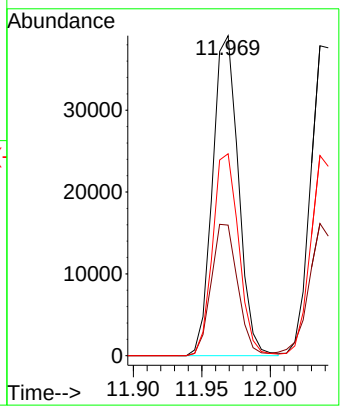


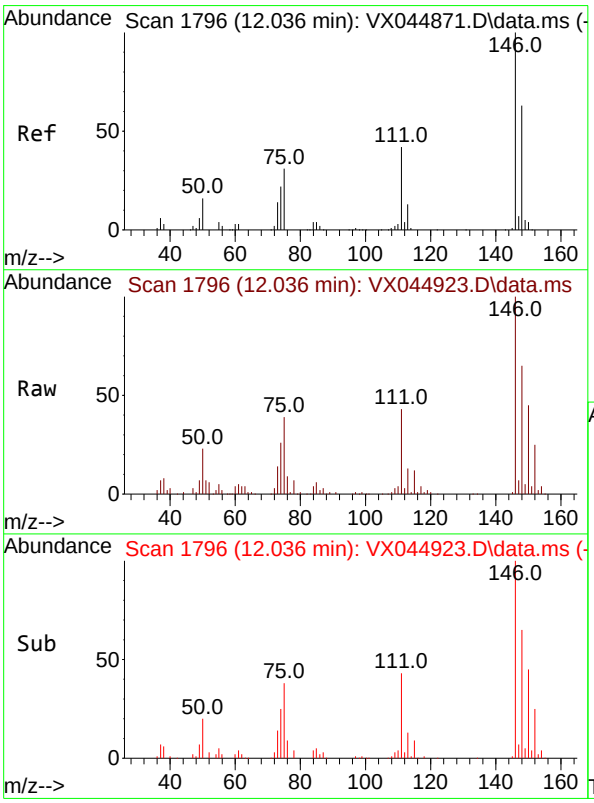
#87
1,3-Dichlorobenzene
Concen: 18.612 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:146 Resp: 51423

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.2	63.6
148	63.7	32.5	97.5

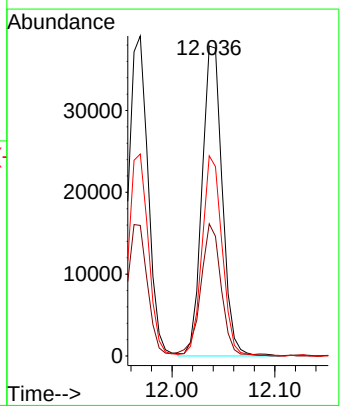


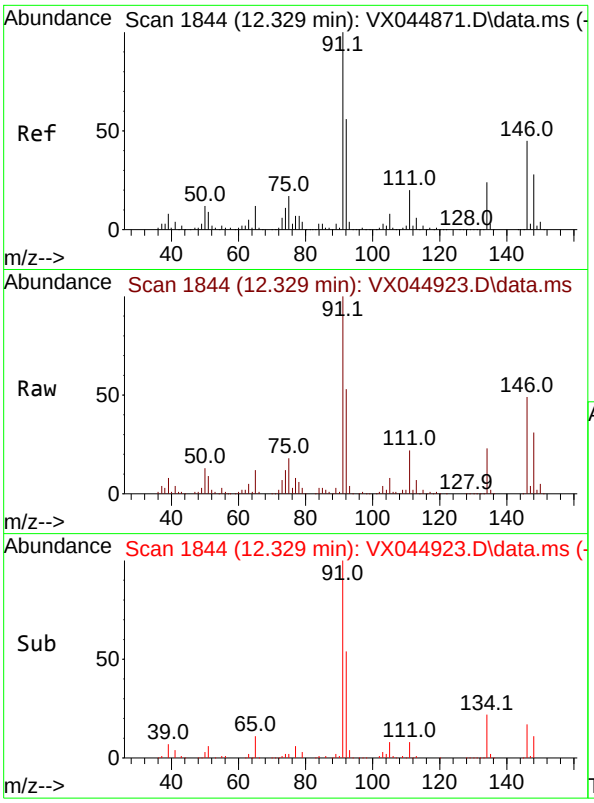


#88
1,4-Dichlorobenzene
Concen: 18.616 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:146 Resp: 52003

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.4	61.3
148	64.0	32.0	96.0



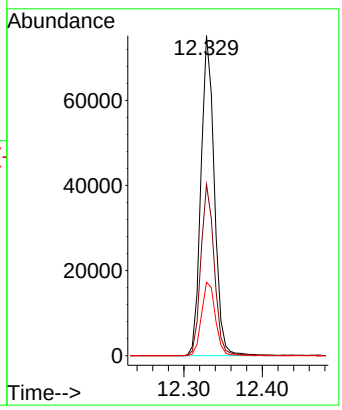


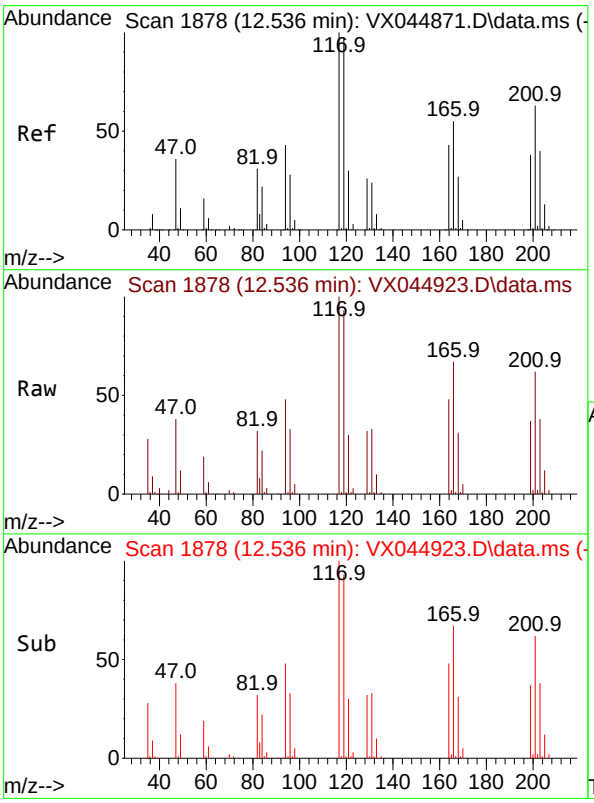
#89
n-Butylbenzene
Concen: 18.617 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion: 91 Resp: 89228

Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.2	81.6
134	23.9	12.1	36.3

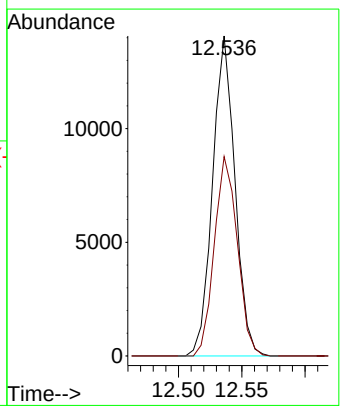


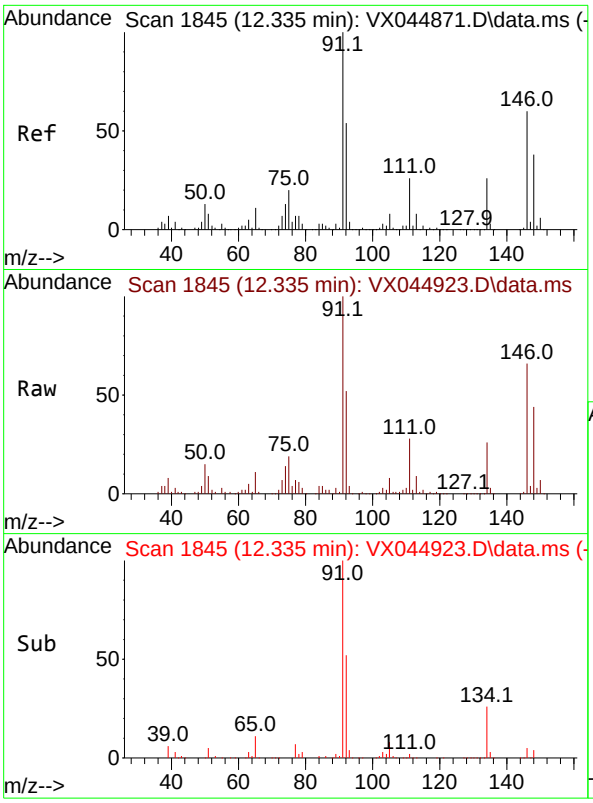


#90
Hexachloroethane
Concen: 17.025 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:117 Resp: 17270

Ion	Ratio	Lower	Upper
117	100		
201	64.3	32.5	97.5



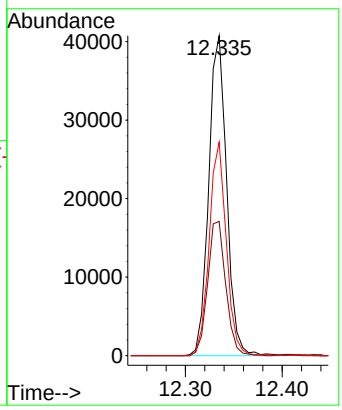


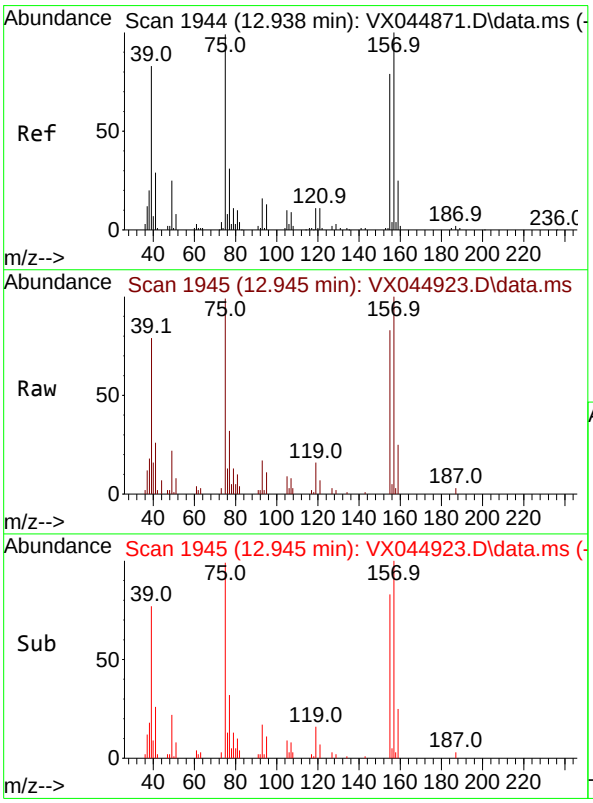
#91
1,2-Dichlorobenzene
Concen: 19.322 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:146 Resp: 52467

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.8	65.4
148	64.0	31.9	95.9

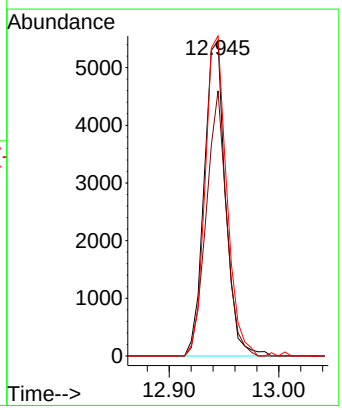


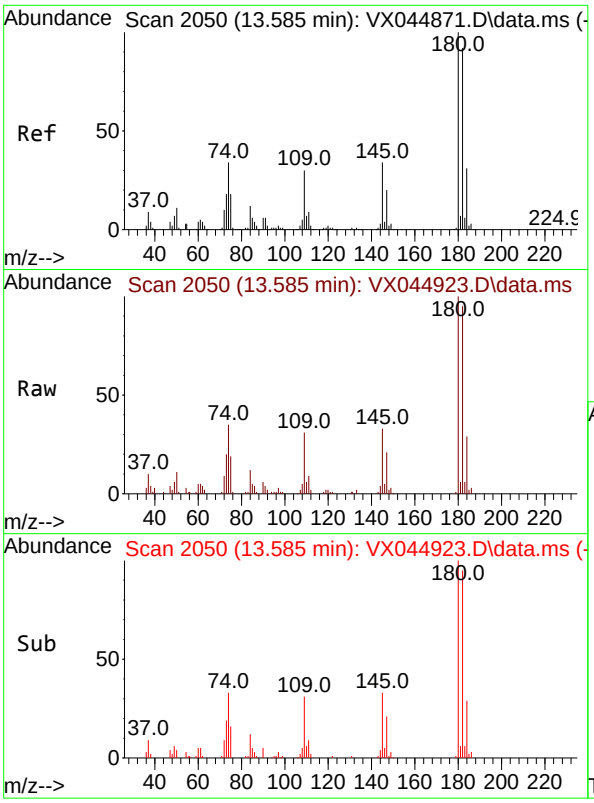


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.736 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion: 75 Resp: 7371

Ion	Ratio	Lower	Upper
75	100		
155	80.3	40.5	121.4
157	102.9	51.4	154.3



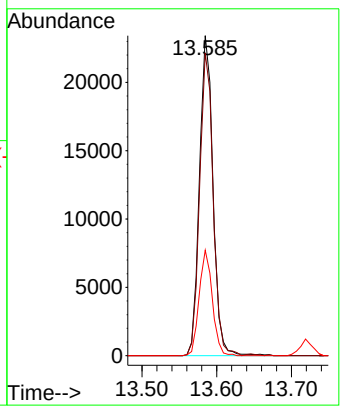


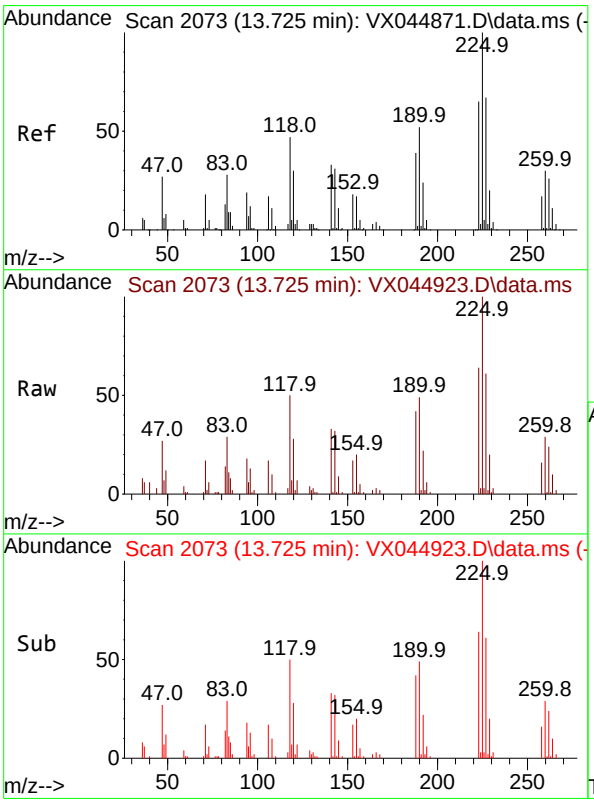
#93
1,2,4-Trichlorobenzene
Concen: 17.948 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:180 Resp: 29489

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.6	142.8
145	32.1	16.4	49.1

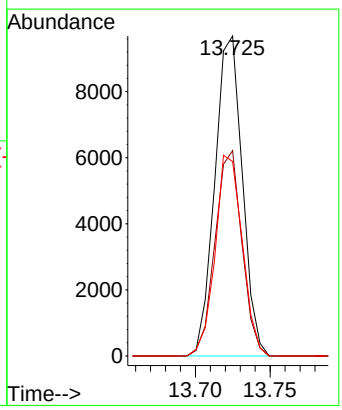


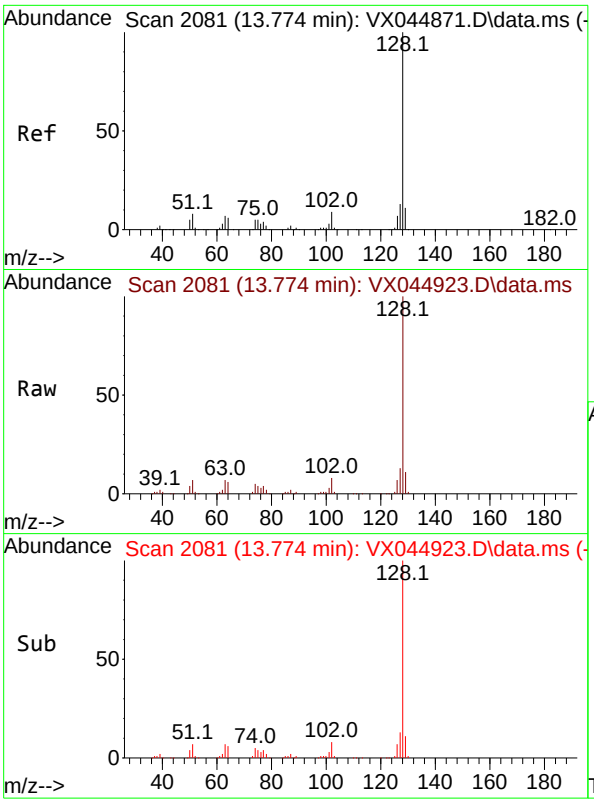


#94
Hexachlorobutadiene
Concen: 19.001 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:225 Resp: 12394

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.4	94.2
227	61.9	32.3	96.8



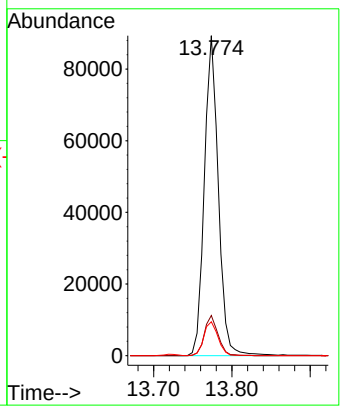


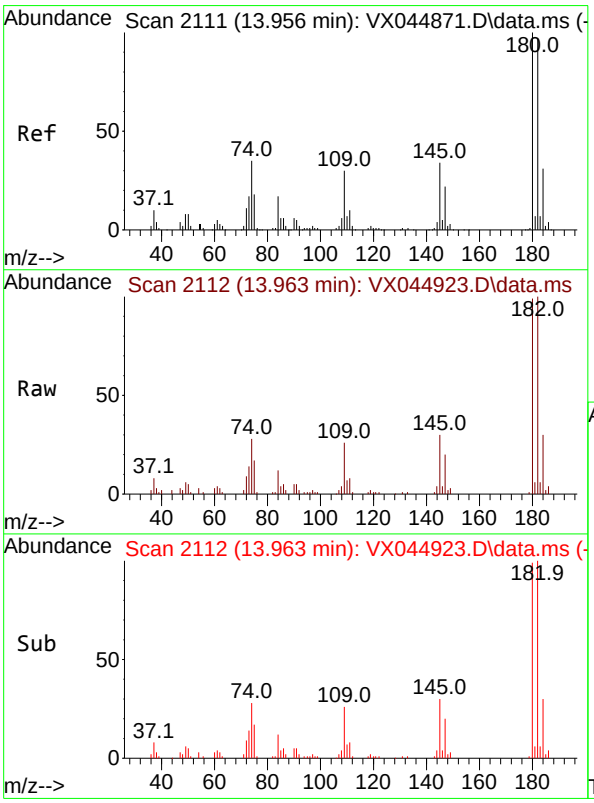
#95
Naphthalene
Concen: 18.605 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBS01

Tgt Ion:128 Resp: 110501

Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.1	15.1
129	10.9	8.9	13.3

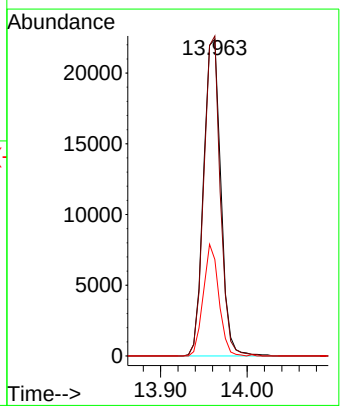




#96
1,2,3-Trichlorobenzene
Concen: 18.682 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044923.D
Acq: 12 Feb 2025 11:20

Tgt Ion:180 Resp: 30930

Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.9	143.6
145	31.9	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044924.D
Acq On : 12 Feb 2025 11:46
Operator : JC/MD
Sample : VX0212WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Quant Time: Feb 13 00:48:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	109124	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	195530	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	172961	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	79611	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	80512	50.403	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.800%			
35) Dibromofluoromethane	5.379	113	62877	49.460	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.920%			
50) Toluene-d8	8.647	98	237599	49.426	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.860%			
62) 4-Bromofluorobenzene	11.079	95	82362	50.822	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28368	18.535	ug/l	98
3) Chloromethane	1.300	50	32731	17.571	ug/l	97
4) Vinyl Chloride	1.374	62	30493	16.897	ug/l	99
5) Bromomethane	1.593	94	10500	19.444	ug/l	96
6) Chloroethane	1.666	64	16764	22.039	ug/l	96
7) Trichlorofluoromethane	1.874	101	42415	18.586	ug/l	98
8) Diethyl Ether	2.130	74	15579	18.823	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	25639	18.594	ug/l	98
10) Methyl Iodide	2.447	142	33551	18.775	ug/l	98
11) Tert butyl alcohol	2.977	59	28954	97.705	ug/l	100
12) 1,1-Dichloroethene	2.312	96	24602	17.491	ug/l	98
13) Acrolein	2.233	56	33787	110.506	ug/l	99
14) Allyl chloride	2.654	41	45724	17.988	ug/l	96
15) Acrylonitrile	3.062	53	78273	98.927	ug/l	100
16) Acetone	2.380	43	63063	98.205	ug/l	100
17) Carbon Disulfide	2.501	76	64096	16.618	ug/l	100
18) Methyl Acetate	2.703	43	40286	19.880	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	83480	18.654	ug/l	99
20) Methylene Chloride	2.782	84	29005	18.440	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	24931	18.010	ug/l	99
22) Diisopropyl ether	3.757	45	90509	18.821	ug/l	92
23) Vinyl Acetate	3.715	43	368403	93.966	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50302	18.694	ug/l	99
25) 2-Butanone	4.556	43	103530	99.286	ug/l	96
26) 2,2-Dichloropropane	4.465	77	37530	17.587	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	30826	18.539	ug/l	100
28) Bromochloromethane	4.891	49	23310	18.026	ug/l	100
29) Tetrahydrofuran	5.001	42	68341	98.700	ug/l	99
30) Chloroform	5.086	83	48606	18.626	ug/l	94
31) Cyclohexane	5.458	56	44168	17.805	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	40279	18.197	ug/l	99
36) 1,1-Dichloropropene	5.684	75	33377	18.198	ug/l	100
37) Ethyl Acetate	4.708	43	39407	19.317	ug/l	100
38) Carbon Tetrachloride	5.672	117	33581	18.684	ug/l	97
39) Methylcyclohexane	7.373	83	46041	19.417	ug/l	99
40) Benzene	6.031	78	108219	18.896	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044924.D
Acq On : 12 Feb 2025 11:46
Operator : JC/MD
Sample : VX0212WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Quant Time: Feb 13 00:48:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	22151	20.286	ug/l		97
42) 1,2-Dichloroethane	6.080	62	36480	19.986	ug/l		98
43) Isopropyl Acetate	6.336	43	63766	19.356	ug/l		99
44) Trichloroethene	7.123	130	24516	18.728	ug/l		97
45) 1,2-Dichloropropane	7.421	63	27915	19.592	ug/l		96
46) Dibromomethane	7.580	93	19165	19.396	ug/l		98
47) Bromodichloromethane	7.818	83	36997	19.337	ug/l		98
48) Methyl methacrylate	7.690	41	31202	20.087	ug/l		97
49) 1,4-Dioxane	7.665	88	14026	420.866	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	212510	106.108	ug/l		97
52) Toluene	8.714	92	66094	19.378	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	34442	17.789	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	41592	19.267	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	26607	20.293	ug/l		97
56) Ethyl methacrylate	9.116	69	40596	19.170	ug/l		98
57) 1,3-Dichloropropane	9.305	76	46702	20.357	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	103937	99.959	ug/l		100
59) 2-Hexanone	9.427	43	153073	106.078	ug/l		97
60) Dibromochloromethane	9.518	129	26674	19.022	ug/l		99
61) 1,2-Dibromoethane	9.610	107	26006	19.569	ug/l		98
64) Tetrachloroethene	9.269	164	20728	19.003	ug/l		97
65) Chlorobenzene	10.073	112	70760	19.047	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	22330	18.675	ug/l		97
67) Ethyl Benzene	10.189	91	124767	19.032	ug/l		99
68) m/p-Xylenes	10.299	106	93995	38.868	ug/l		99
69) o-Xylene	10.640	106	47375	19.524	ug/l		99
70) Styrene	10.652	104	77185	19.743	ug/l		99
71) Bromoform	10.799	173	17281	19.365	ug/l	#	99
73) Isopropylbenzene	10.957	105	119685	18.671	ug/l		100
74) N-amyl acetate	10.841	43	53361	18.396	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	40067	18.190	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	40821	23.127	ug/l		85
77) Bromobenzene	11.195	156	27635	19.015	ug/l		96
78) n-propylbenzene	11.299	91	138789	18.758	ug/l		99
79) 2-Chlorotoluene	11.360	91	85355	18.770	ug/l		99
80) 1,3,5-Trimethylbenzene	11.445	105	100422	19.305	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	10934	15.935	ug/l		90
82) 4-Chlorotoluene	11.451	91	94450	18.774	ug/l		99
83) tert-Butylbenzene	11.713	119	99375	18.884	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	98836	19.251	ug/l		100
85) sec-Butylbenzene	11.890	105	123683	18.980	ug/l		100
86) p-Isopropyltoluene	12.006	119	101272	19.325	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	51486	19.265	ug/l		97
88) 1,4-Dichlorobenzene	12.036	146	49926	18.476	ug/l		98
89) n-Butylbenzene	12.329	91	88204	19.025	ug/l		99
90) Hexachloroethane	12.536	117	16680	16.999	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	50206	19.114	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7523	18.713	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	28292	17.801	ug/l		99
94) Hexachlorobutadiene	13.719	225	11686	18.521	ug/l		98
95) Naphthalene	13.774	128	107107	18.642	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	29556	18.455	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044924.D
Acq On : 12 Feb 2025 11:46
Operator : JC/MD
Sample : VX0212WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Quant Time: Feb 13 00:48:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

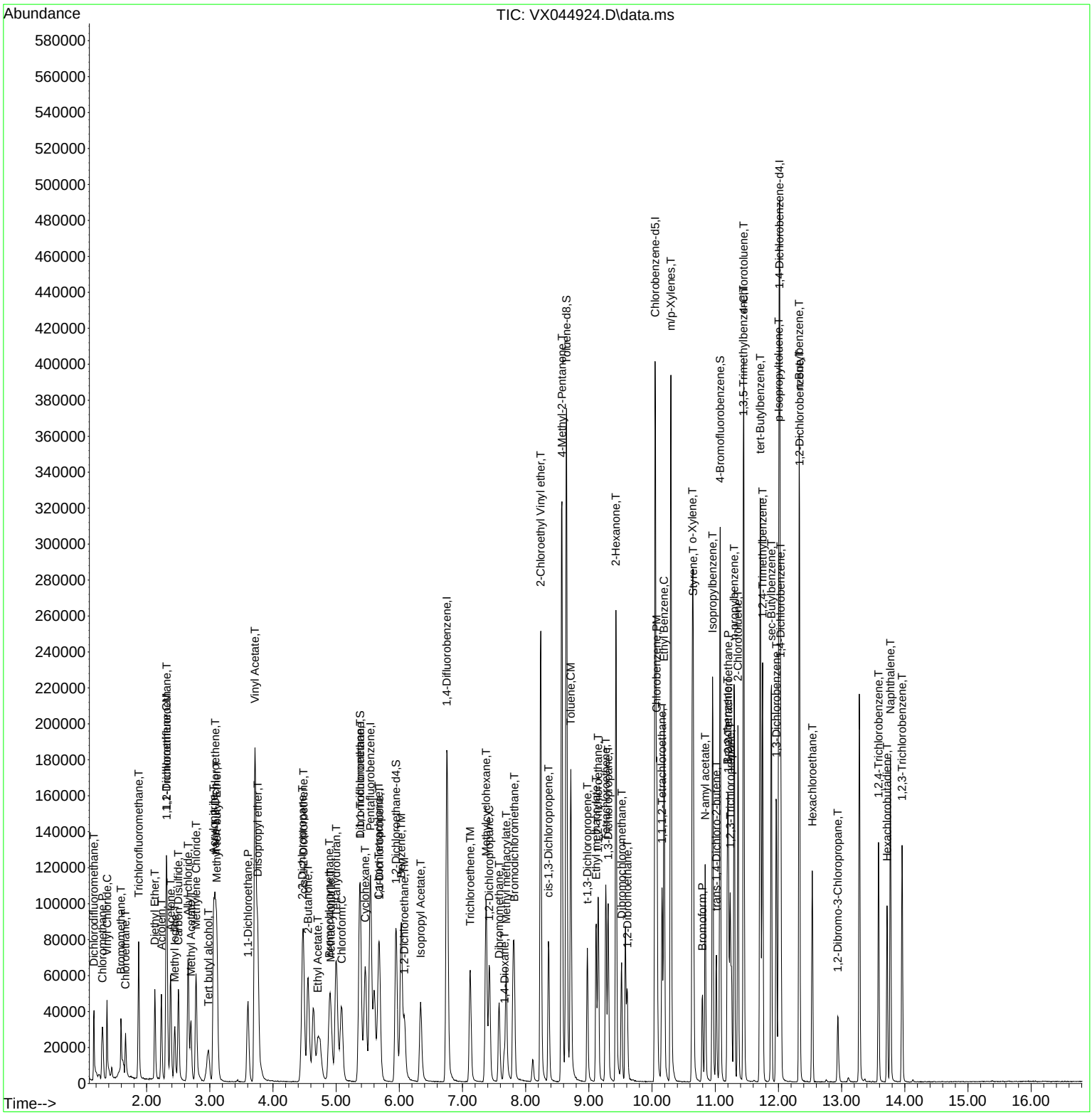
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

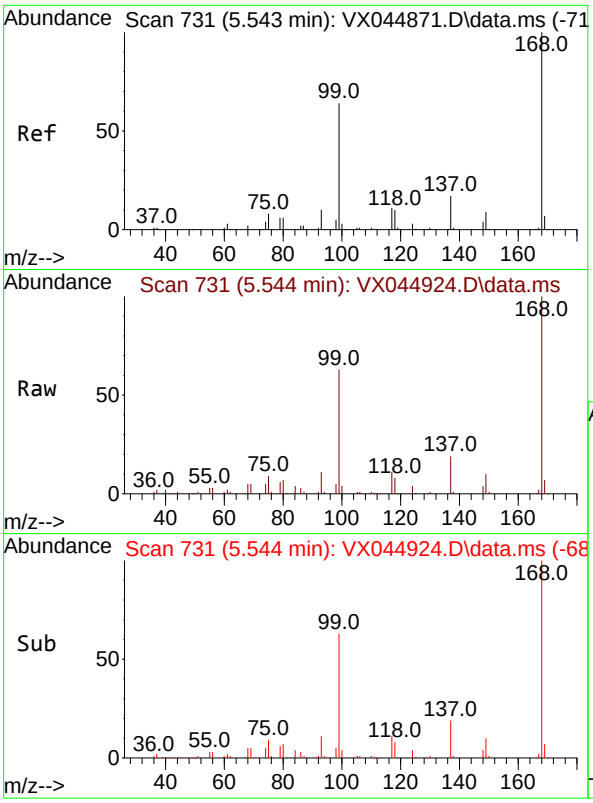
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044924.D
Acq On : 12 Feb 2025 11:46
Operator : JC/MD
Sample : VX0212WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Quant Time: Feb 13 00:48:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



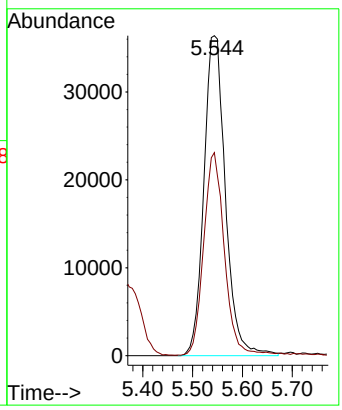


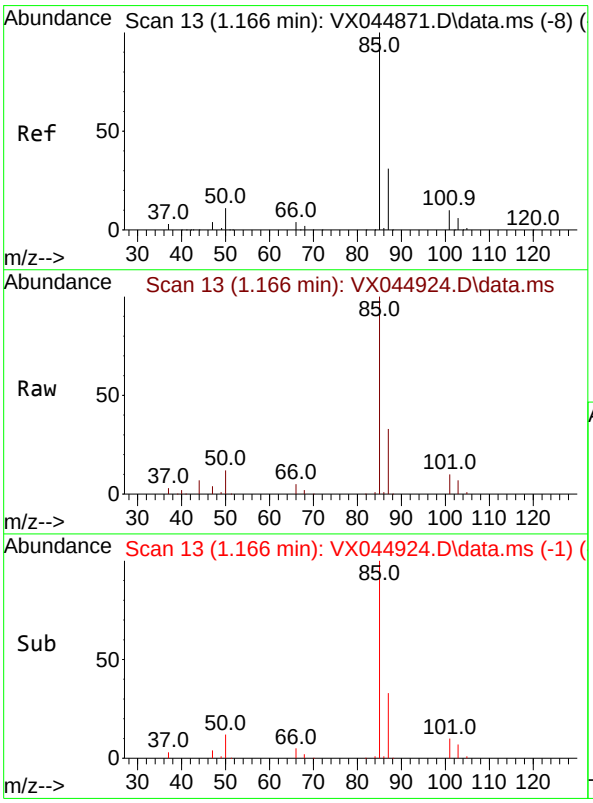
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:168 Resp: 109124

Ion	Ratio	Lower	Upper
168	100		
99	63.2	51.2	76.8

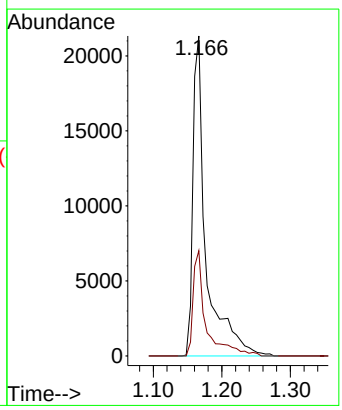


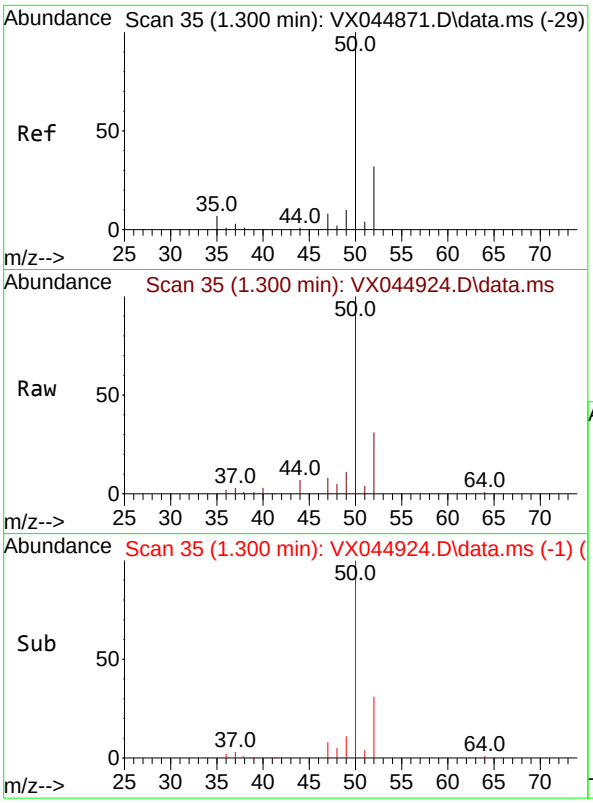


#2
Dichlorodifluoromethane
Concen: 18.535 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 85 Resp: 28368

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3



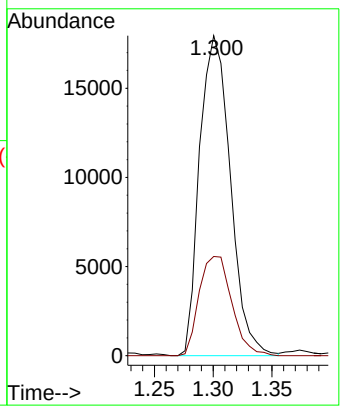


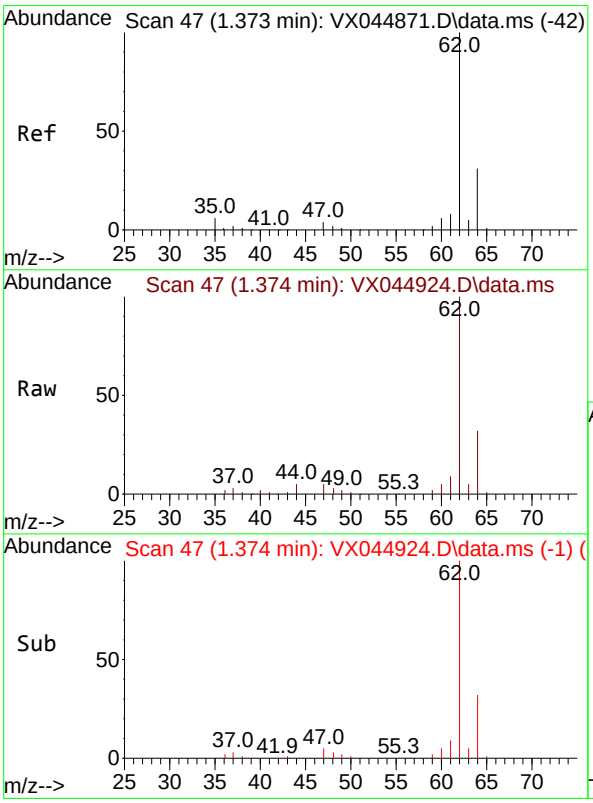
#3
Chloromethane
Concen: 17.571 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 50 Resp: 32731

Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.9	38.9

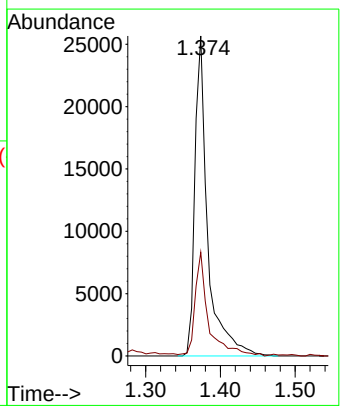


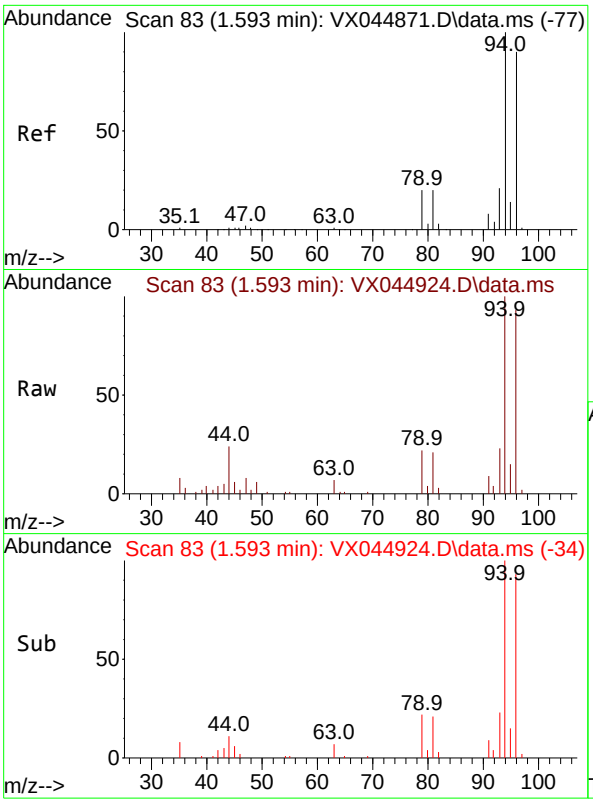


#4
Vinyl Chloride
Concen: 16.897 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 62 Resp: 30493

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0



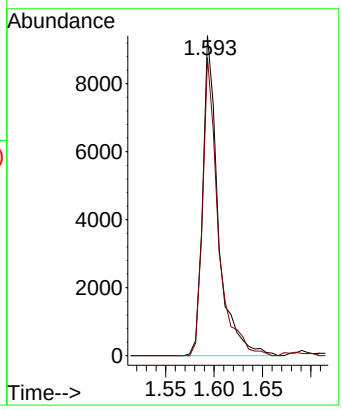


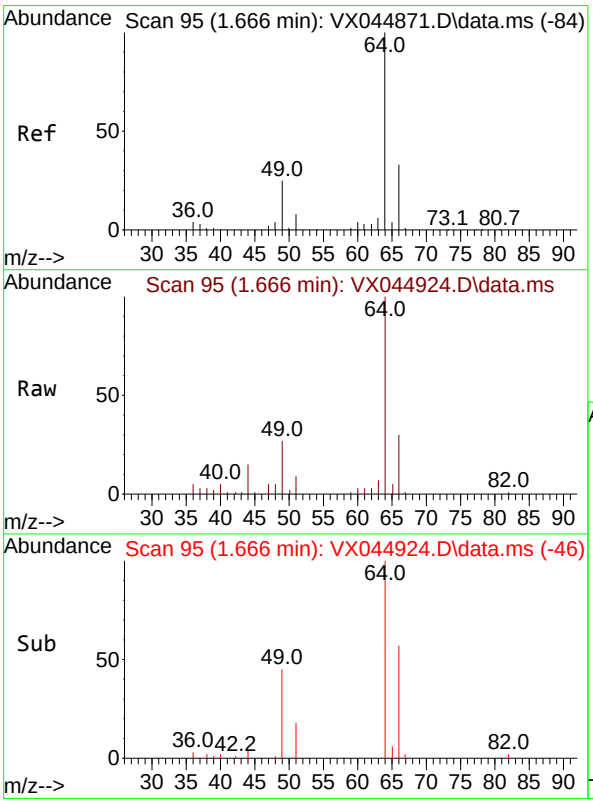
#5
Bromomethane
Concen: 19.444 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 94 Resp: 10500

Ion	Ratio	Lower	Upper
94	100		
96	93.2	71.6	107.4

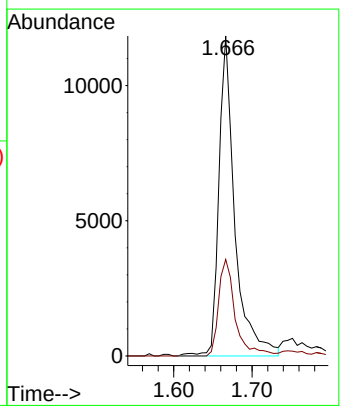


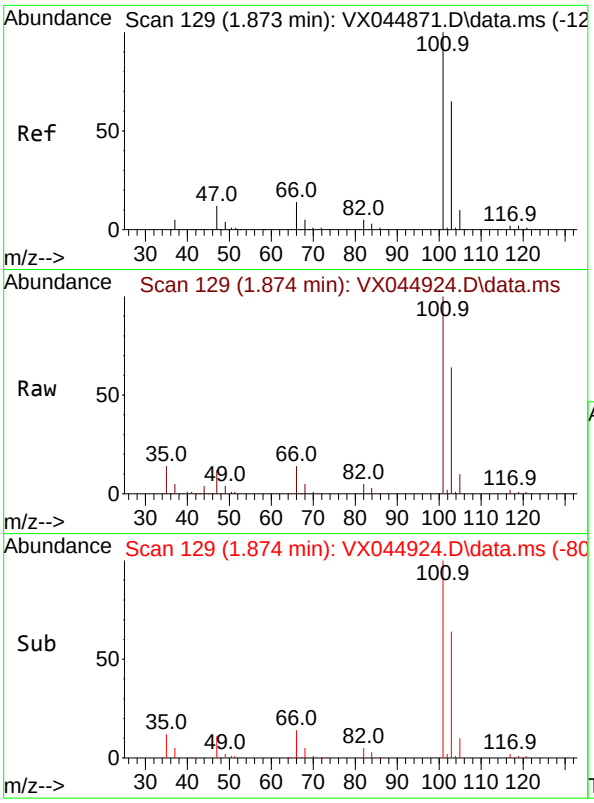


#6
Chloroethane
Concen: 22.039 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 64 Resp: 16764

Ion	Ratio	Lower	Upper
64	100		
66	30.2	25.9	38.9



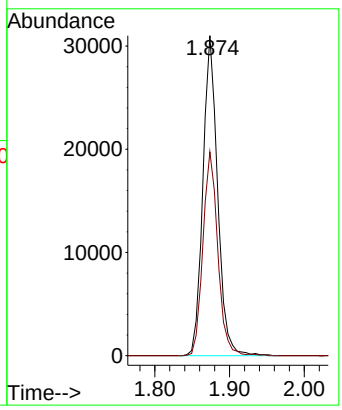


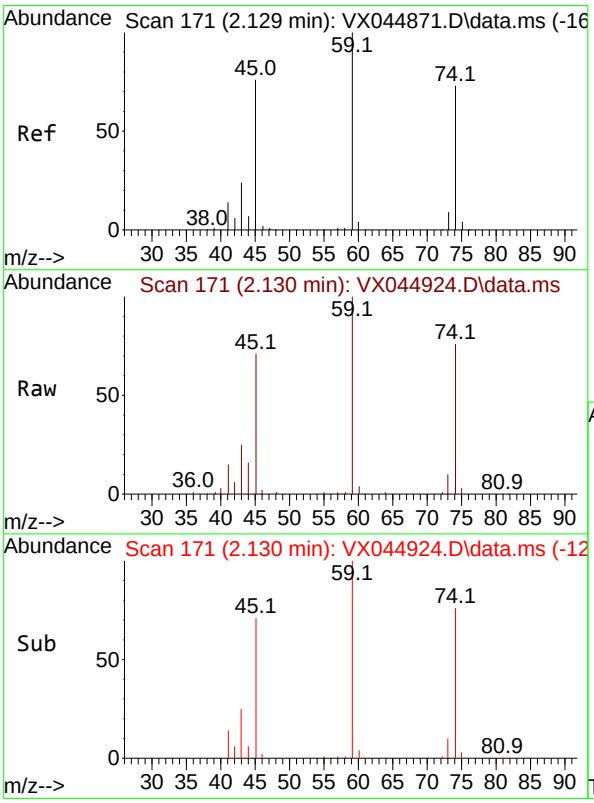
#7
Trichlorofluoromethane
Concen: 18.586 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:101 Resp: 42415

Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.4	78.6

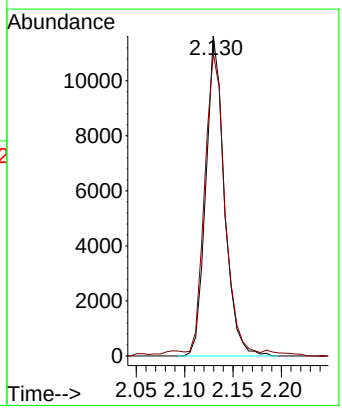


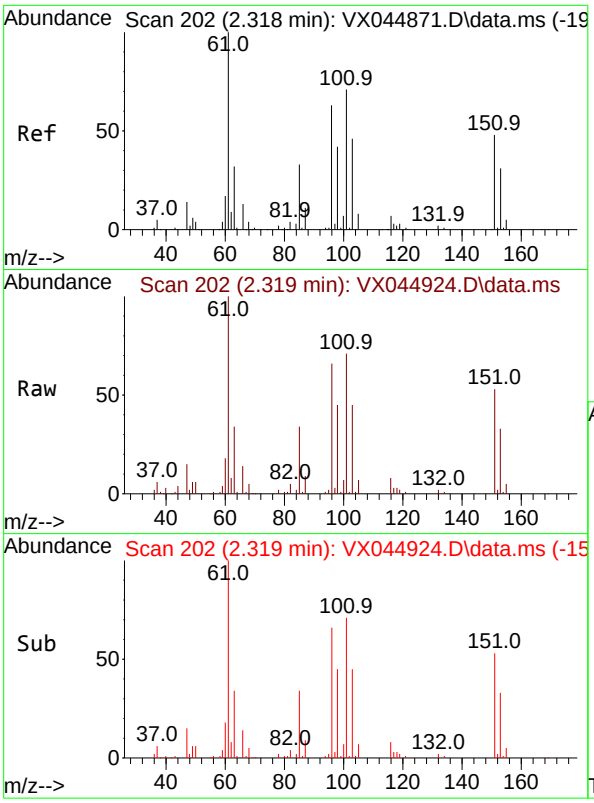


#8
Diethyl Ether
Concen: 18.823 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 74 Resp: 15579

Ion	Ratio	Lower	Upper
74	100		
45	99.5	51.1	153.4



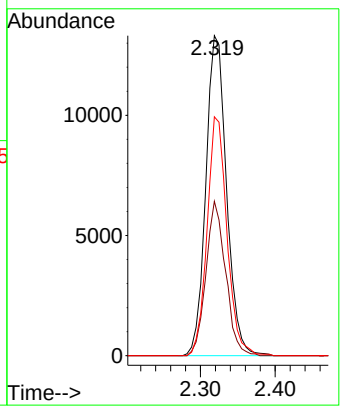


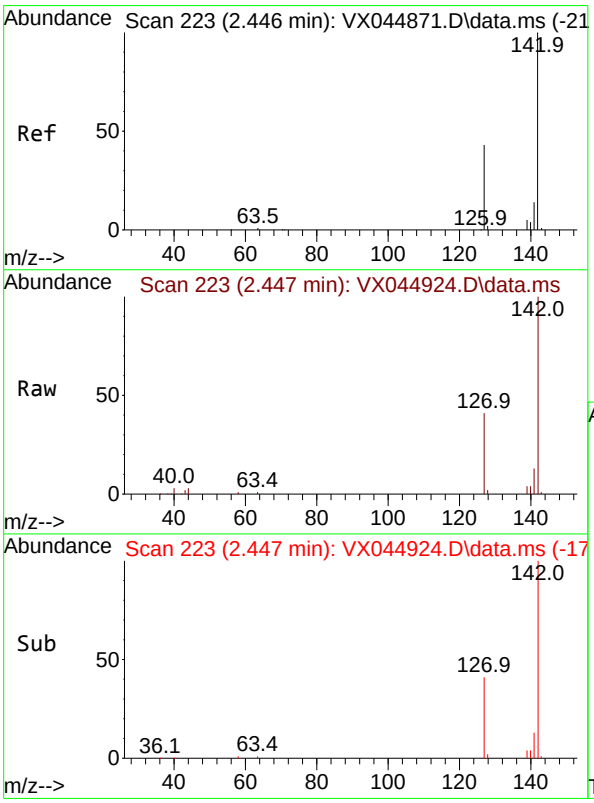
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.594 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:101 Resp: 25639

Ion	Ratio	Lower	Upper
101	100		
85	45.7	35.7	53.5
151	71.7	56.0	84.0

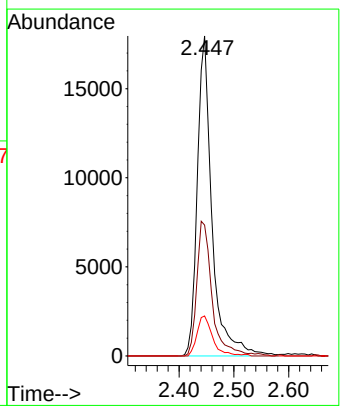


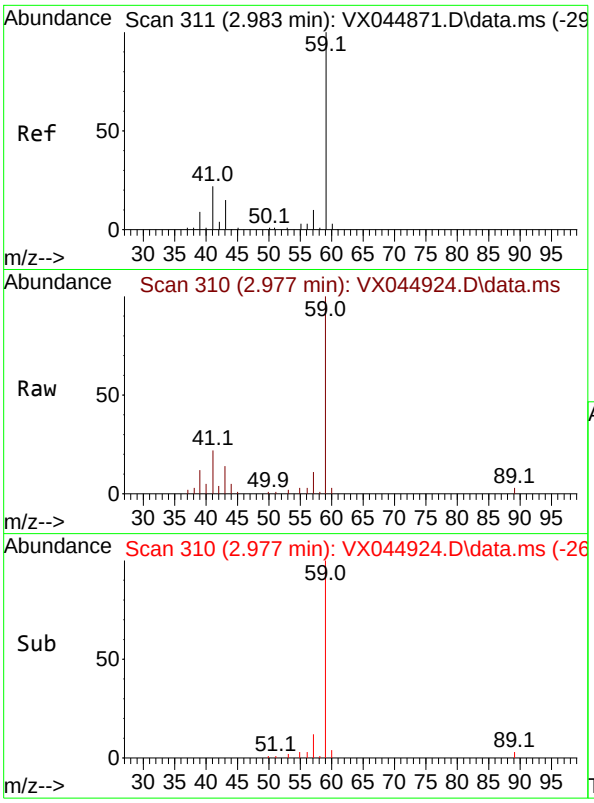


#10
Methyl Iodide
Concen: 18.775 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:142 Resp: 33551

Ion	Ratio	Lower	Upper
142	100		
127	43.9	34.3	51.5
141	13.4	11.4	17.2



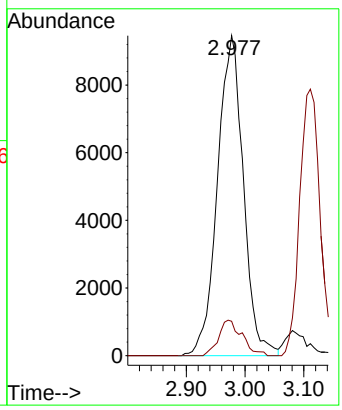


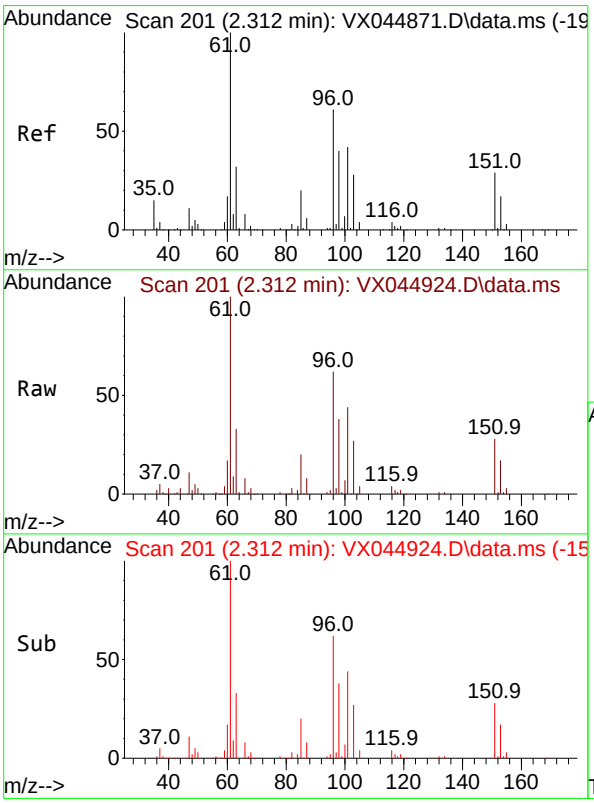
#11
Tert butyl alcohol
Concen: 97.705 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 59 Resp: 28954

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1

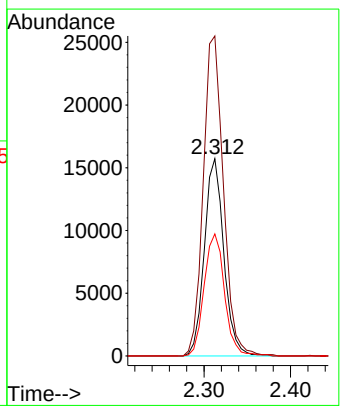


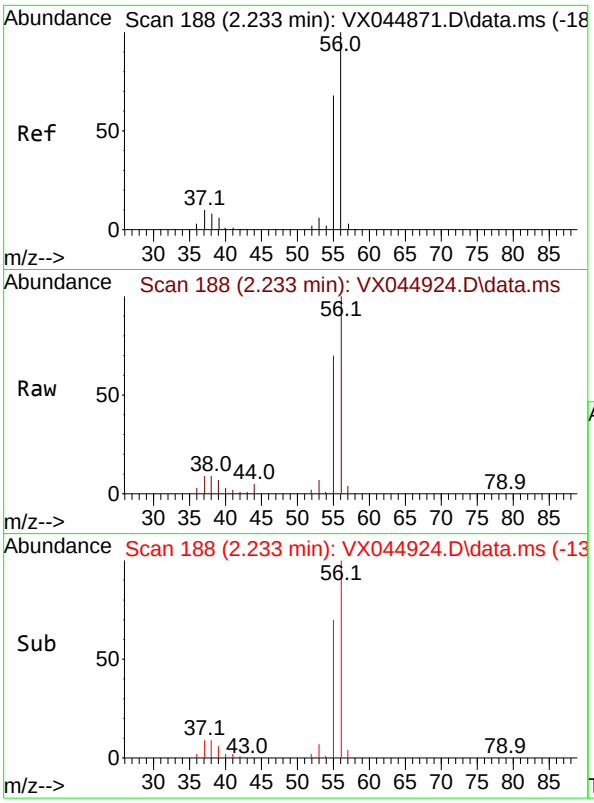


#12
1,1-Dichloroethene
Concen: 17.491 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 96 Resp: 24602

Ion	Ratio	Lower	Upper
96	100		
61	162.1	130.2	195.4
98	61.9	52.2	78.4



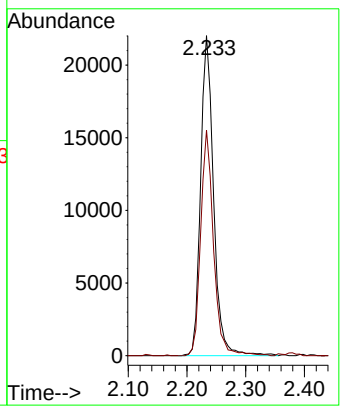


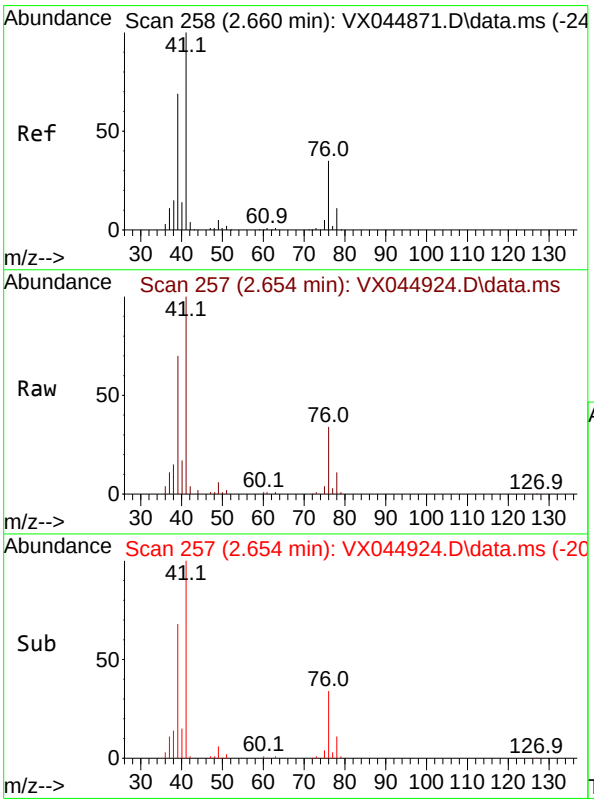
#13
Acrolein
Concen: 110.506 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 56 Resp: 33787

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.7	83.5

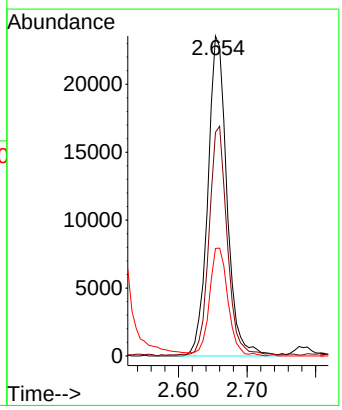


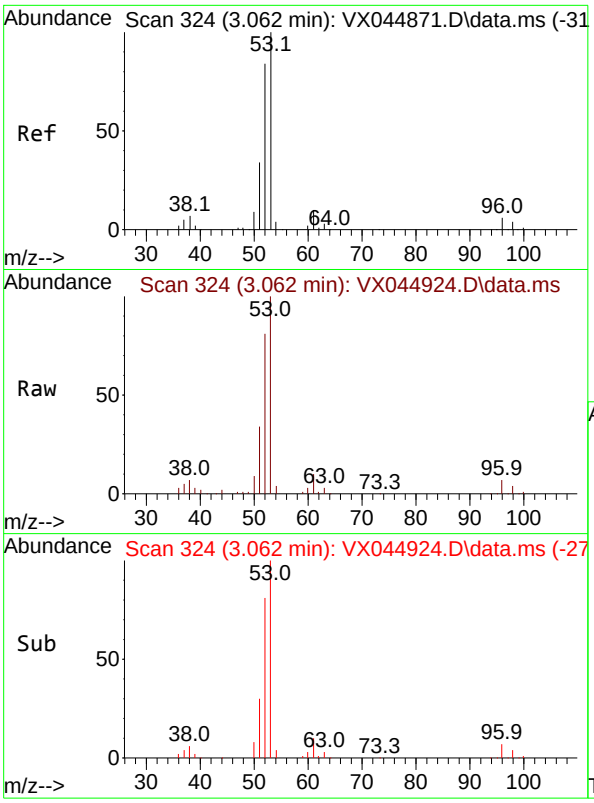


#14
Allyl chloride
Concen: 17.988 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 41 Resp: 45724

Ion	Ratio	Lower	Upper
41	100		
39	68.9	51.4	77.2
76	32.7	27.0	40.4



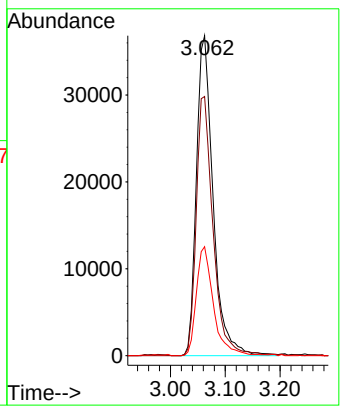


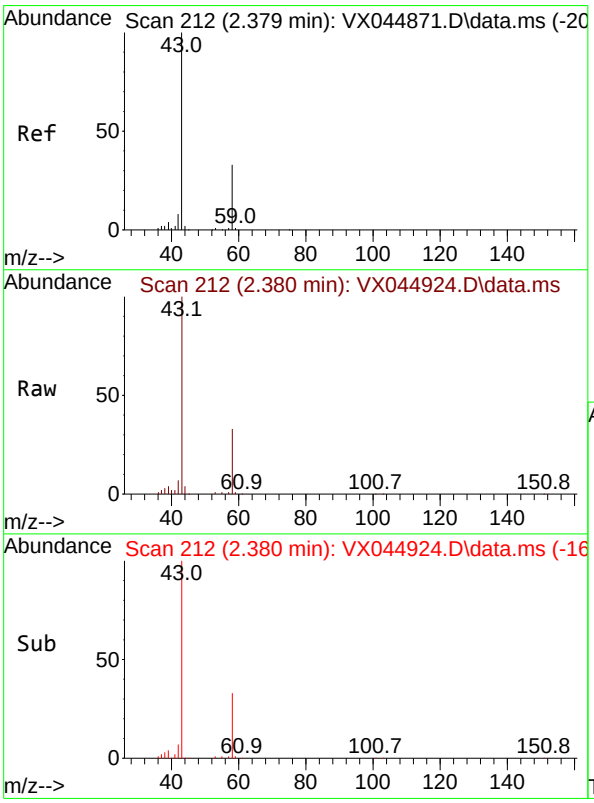
#15
Acrylonitrile
Concen: 98.927 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 53 Resp: 78273

Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.0	97.6
51	35.1	28.0	42.0

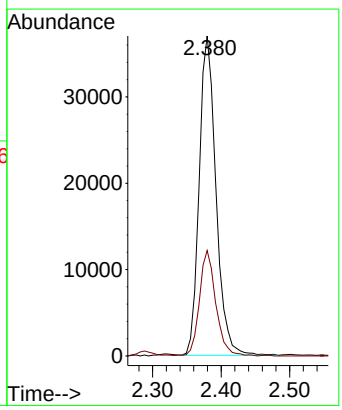


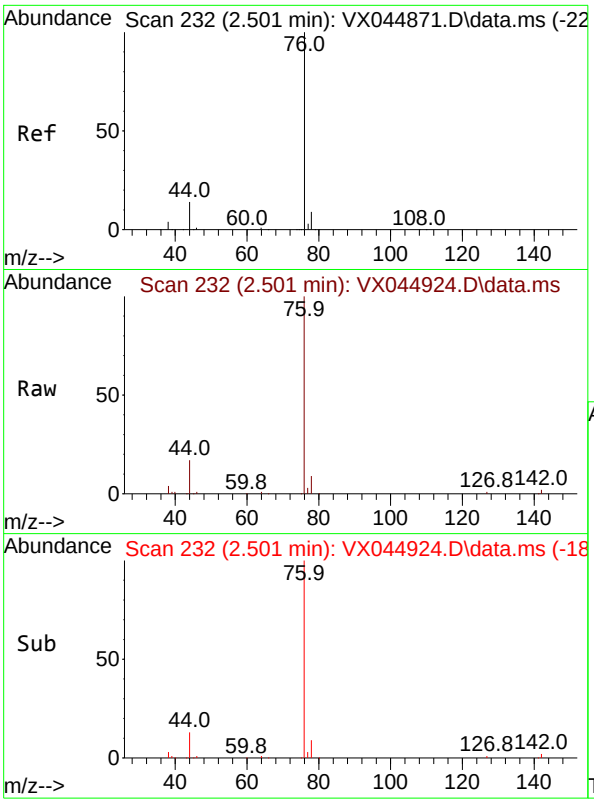


#16
Acetone
Concen: 98.205 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 63063

Ion	Ratio	Lower	Upper
43	100		
58	33.0	26.5	39.7



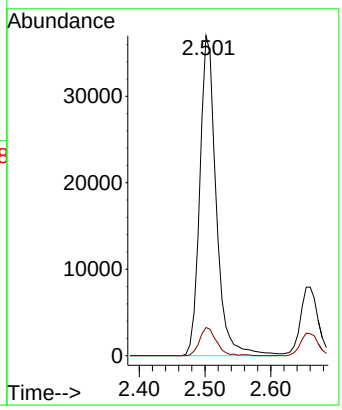


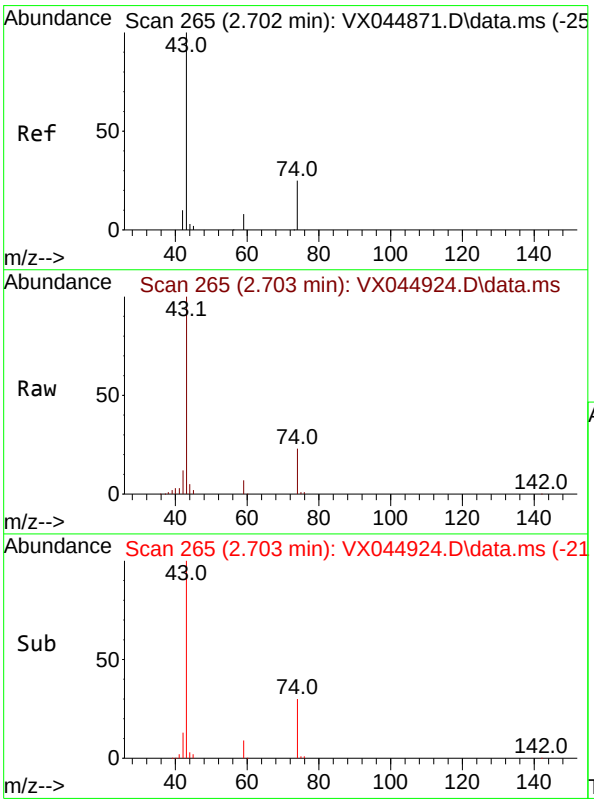
#17
Carbon Disulfide
Concen: 16.618 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 76 Resp: 64096

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4

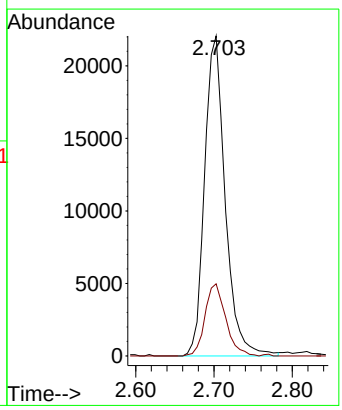


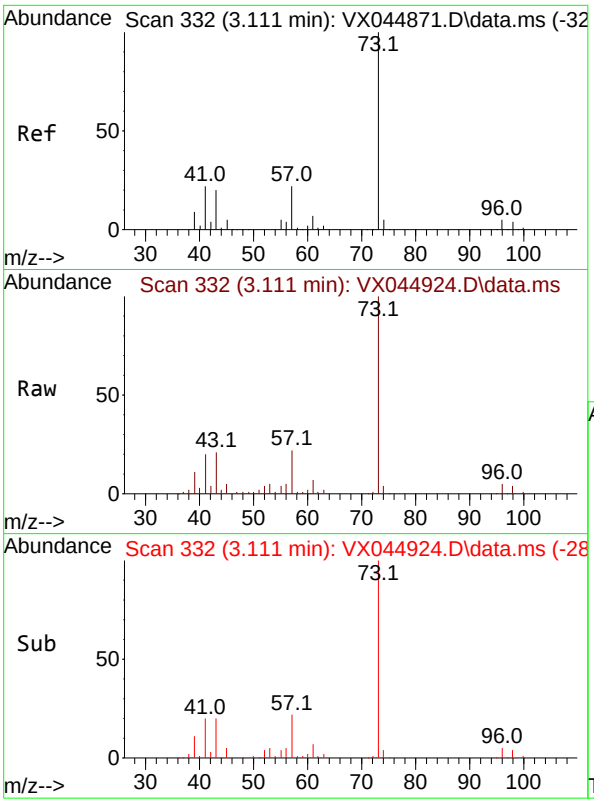


#18
Methyl Acetate
Concen: 19.880 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 40286

Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.9	28.3



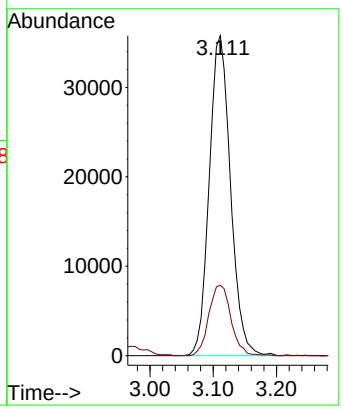


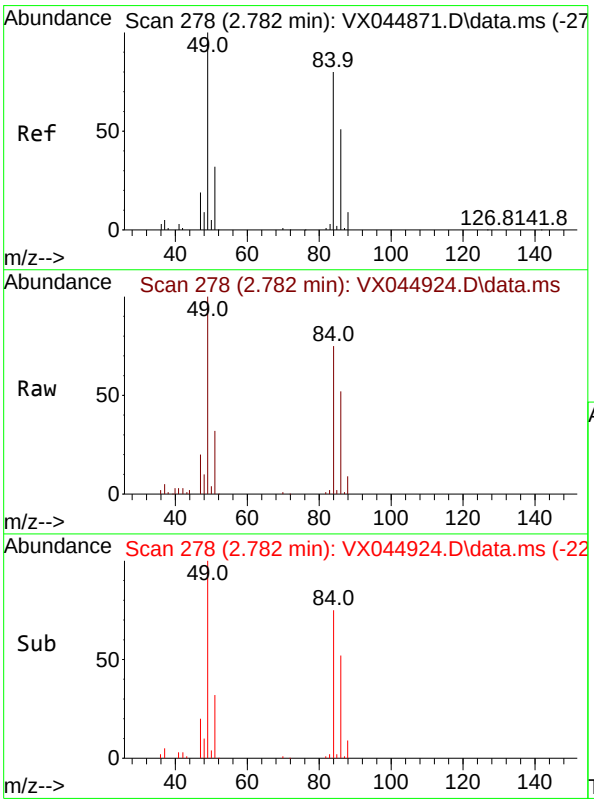
#19
Methyl tert-butyl Ether
Concen: 18.654 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 73 Resp: 83480

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.9	26.9

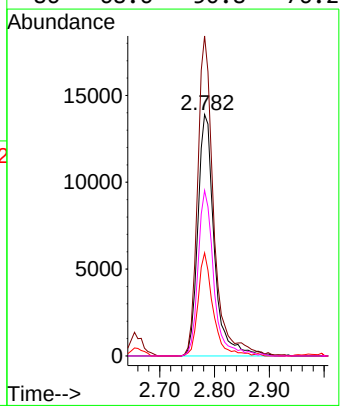


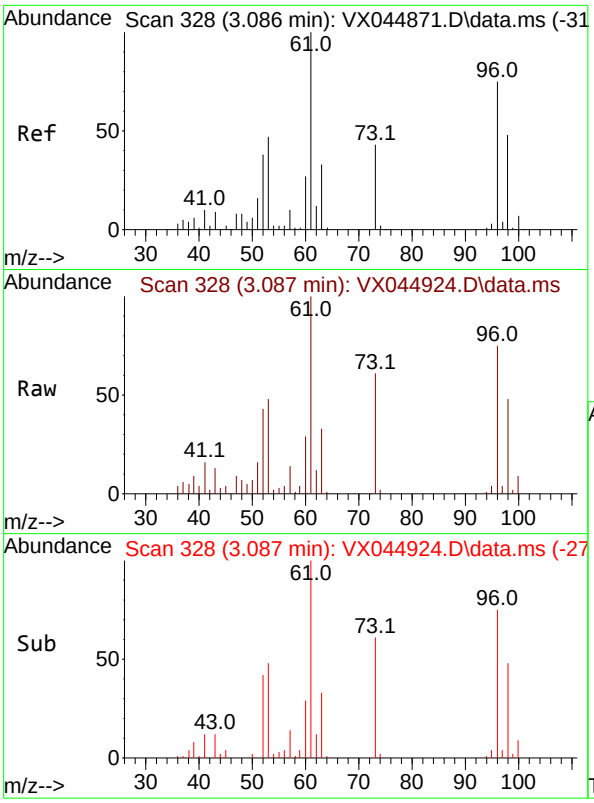


#20
Methylene Chloride
Concen: 18.440 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 84 Resp: 29005

Ion	Ratio	Lower	Upper
84	100		
49	132.6	100.1	150.1
51	42.7	31.7	47.5
86	68.6	50.8	76.2



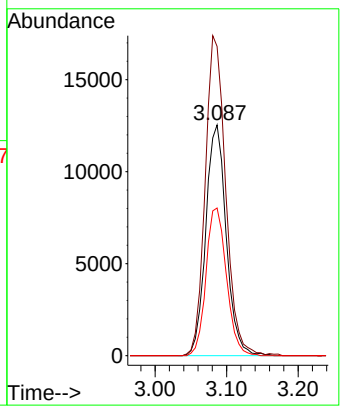


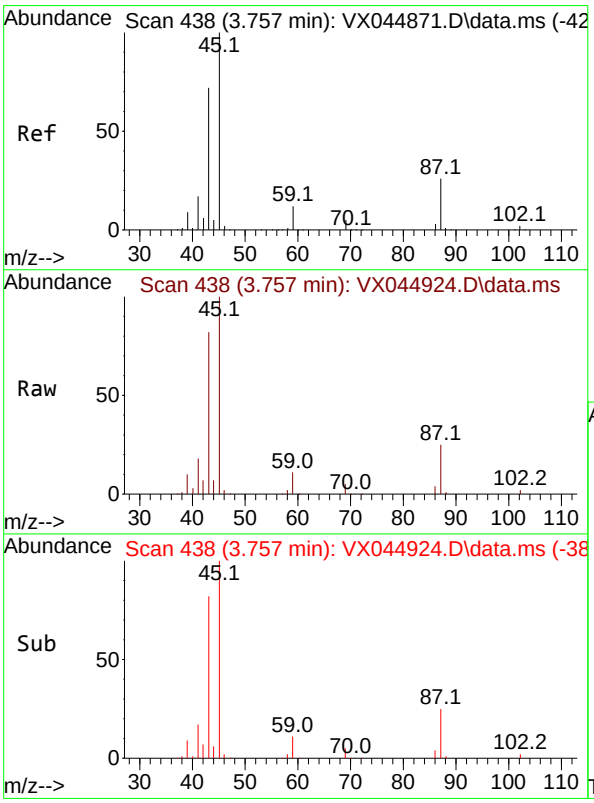
#21
trans-1,2-Dichloroethene
Concen: 18.010 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 96 Resp: 24931

Ion	Ratio	Lower	Upper
96	100		
61	134.1	106.0	159.0
98	64.0	50.6	76.0

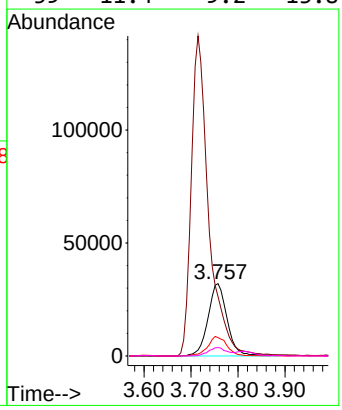


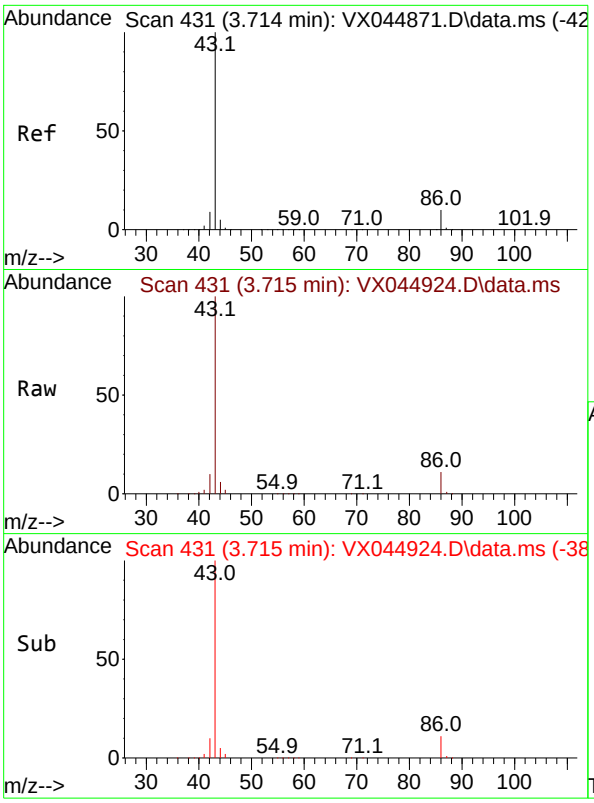


#22
Diisopropyl ether
Concen: 18.821 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 45 Resp: 90509

Ion	Ratio	Lower	Upper
45	100		
43	81.8	58.0	87.0
87	25.5	20.7	31.1
59	11.4	9.2	13.8



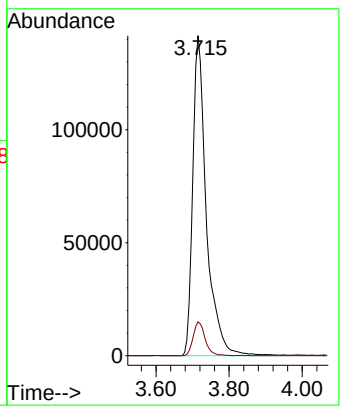


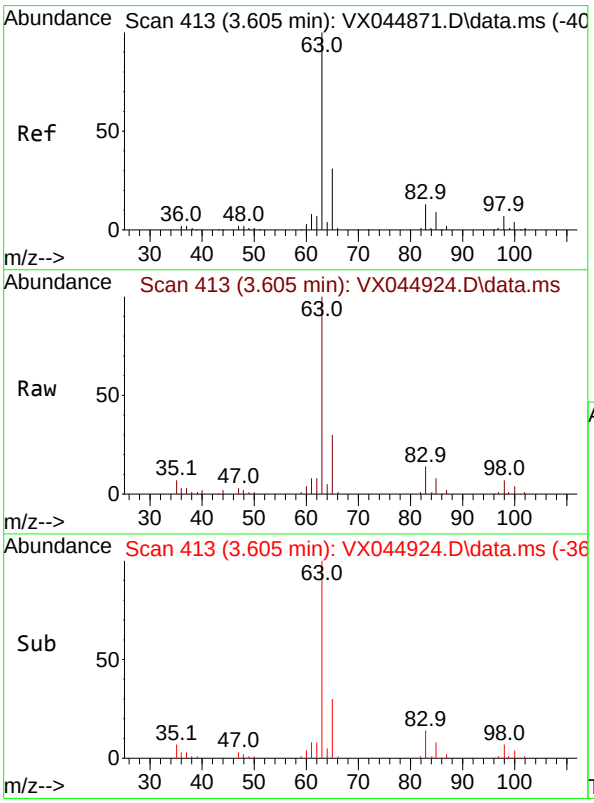
#23
Vinyl Acetate
Concen: 93.966 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 43 Resp: 368403

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.3	12.5

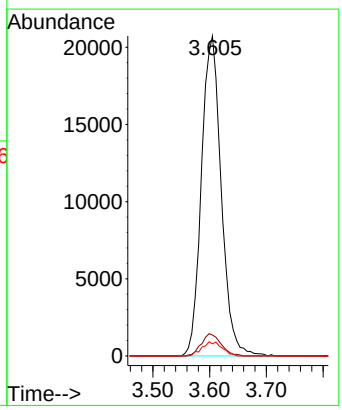


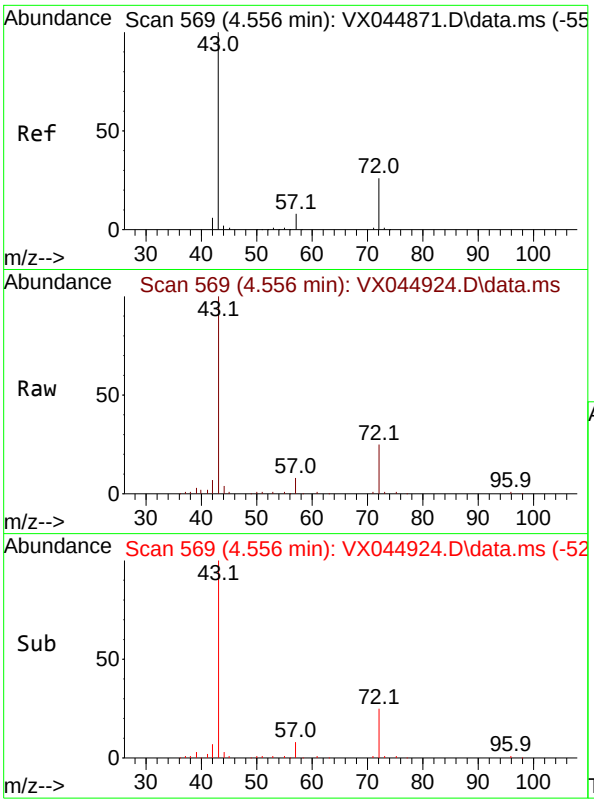


#24
1,1-Dichloroethane
Concen: 18.694 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 63 Resp: 50302

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.9
100	3.8	2.1	6.5



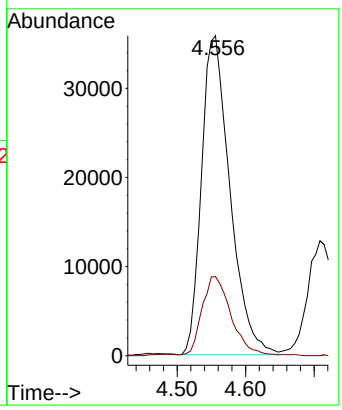


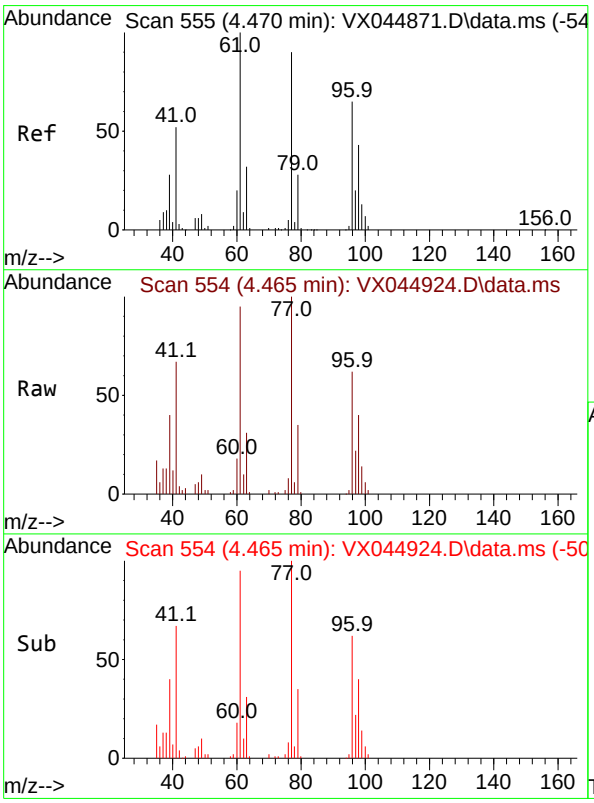
#25
2-Butanone
Concen: 99.286 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 43 Resp: 103530

Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.2	31.8

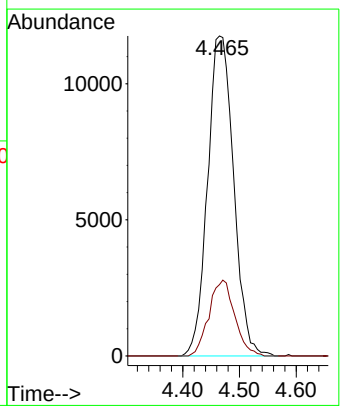


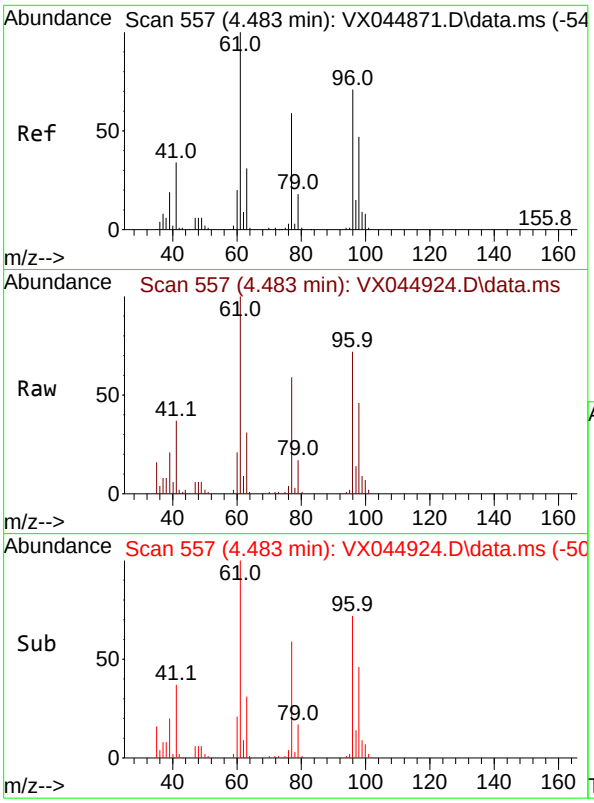


#26
2,2-Dichloropropane
Concen: 17.587 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 77 Resp: 37530

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.8	35.3



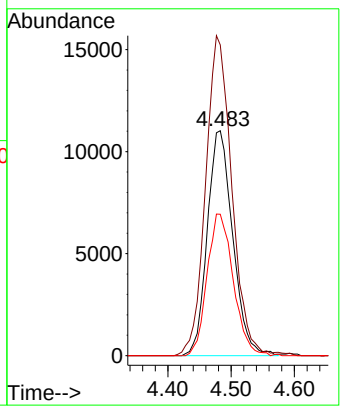


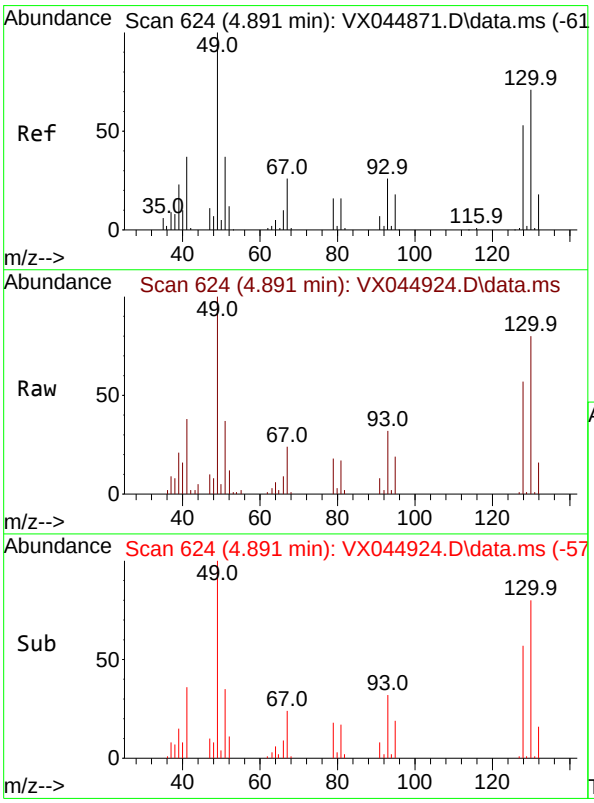
#27
cis-1,2-Dichloroethene
Concen: 18.539 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 96 Resp: 30826

Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	294.0
98	64.7	0.0	131.2

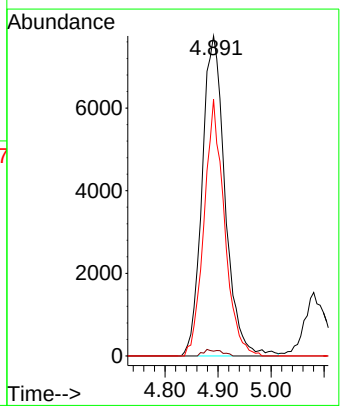


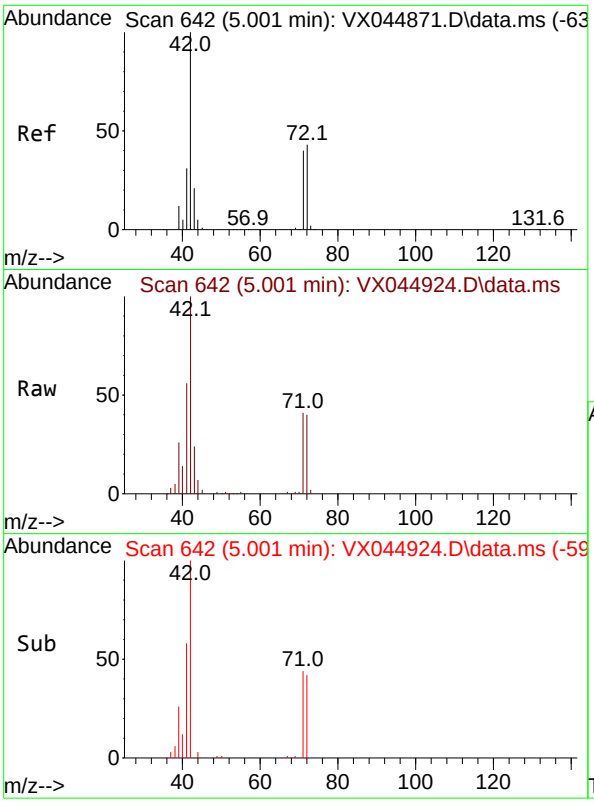


#28
Bromochloromethane
Concen: 18.026 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 49 Resp: 23310

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.6
130	70.8	56.7	85.1



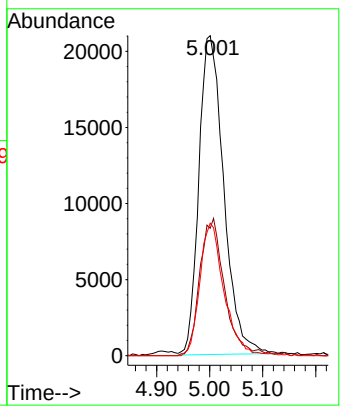


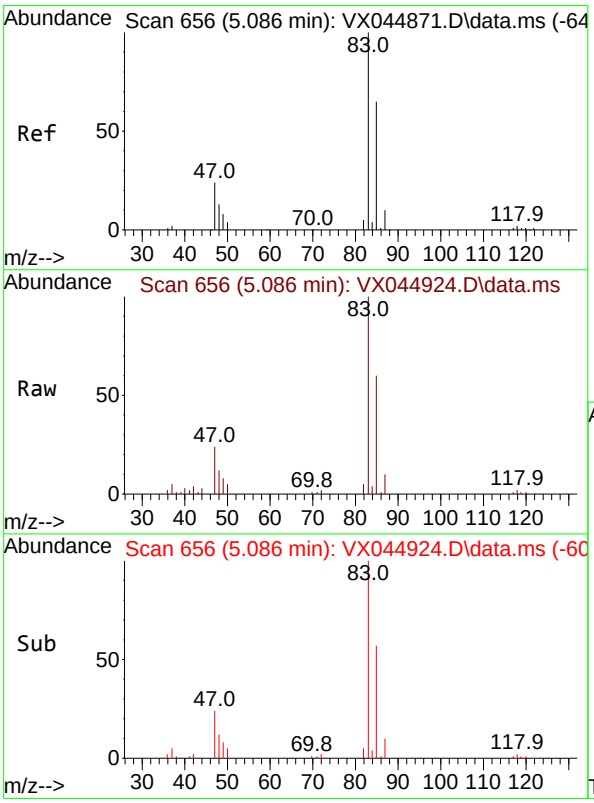
#29
Tetrahydrofuran
Concen: 98.700 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 42 Resp: 68341

Ion	Ratio	Lower	Upper
42	100		
72	42.9	35.0	52.4
71	40.7	32.6	48.8

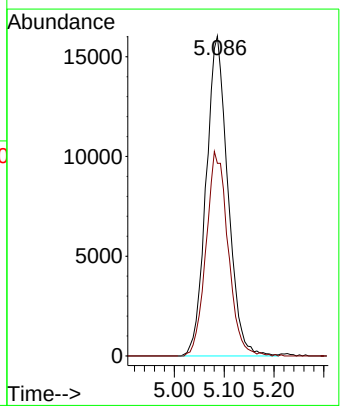


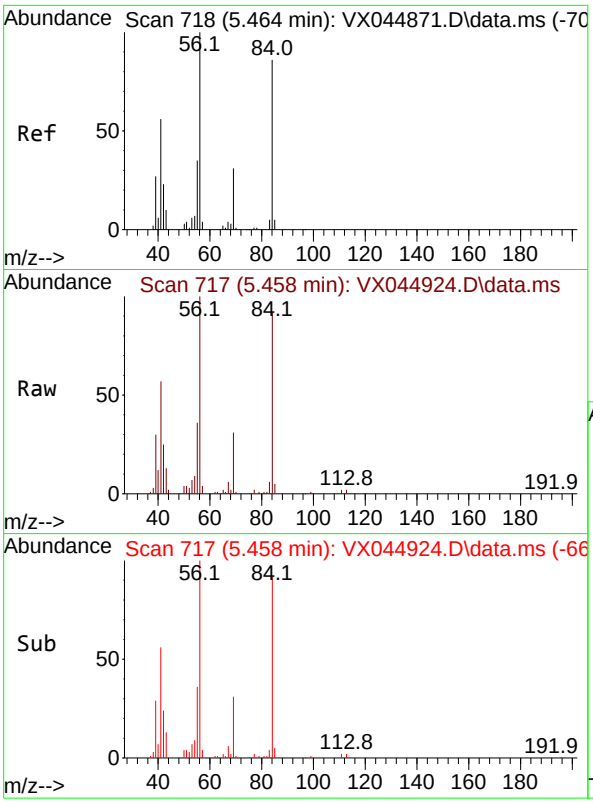


#30
Chloroform
Concen: 18.626 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 83 Resp: 48606

Ion	Ratio	Lower	Upper
83	100		
85	60.2	52.1	78.1



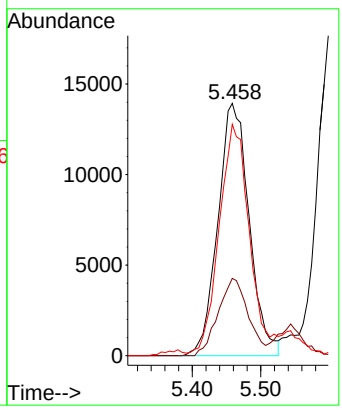


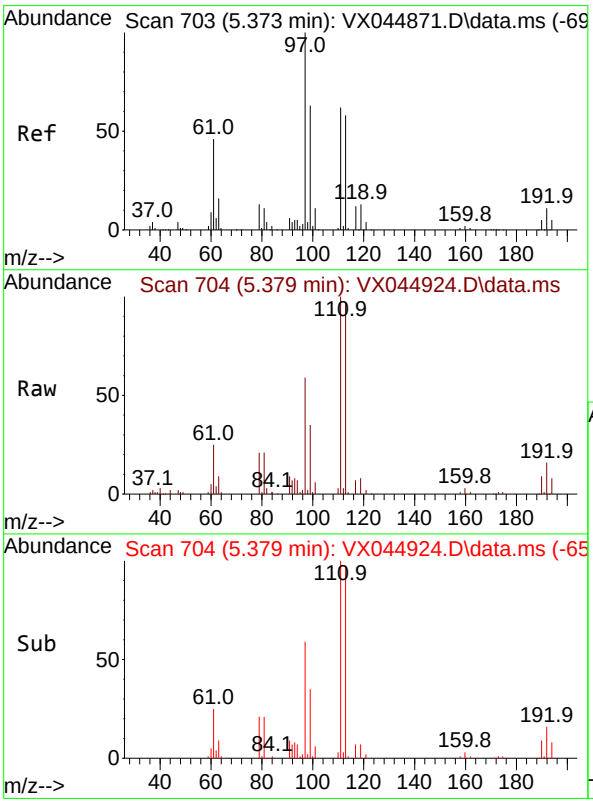
#31
Cyclohexane
Concen: 17.805 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 56 Resp: 44168

Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.4	36.6
84	89.4	69.0	103.6

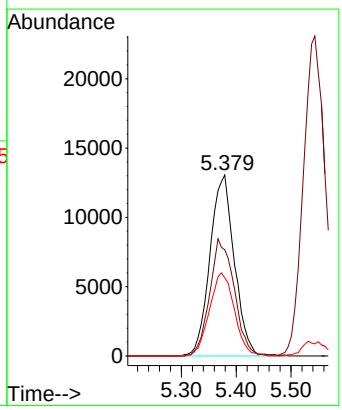


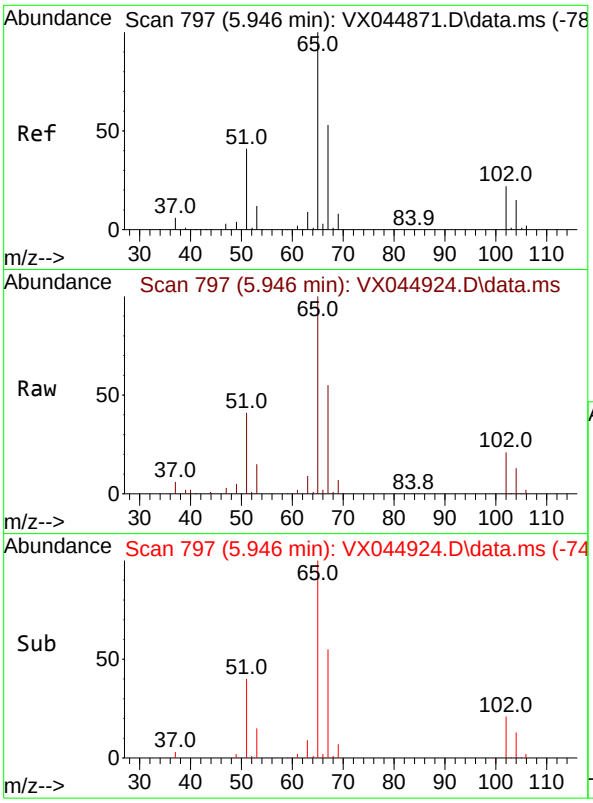


#32
1,1,1-Trichloroethane
Concen: 18.197 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 97 Resp: 40279

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.0	76.6
61	47.0	36.6	55.0



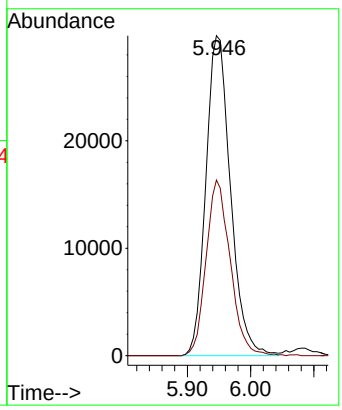


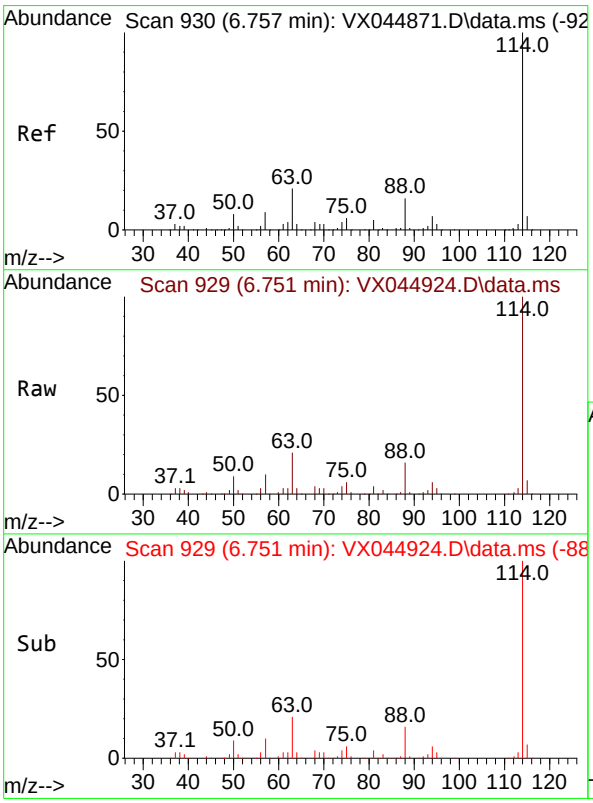
#33
1,2-Dichloroethane-d4
Concen: 50.403 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 65 Resp: 80512

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	108.2

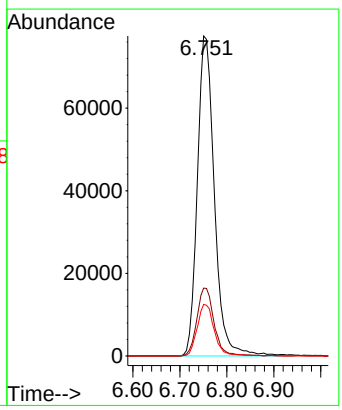


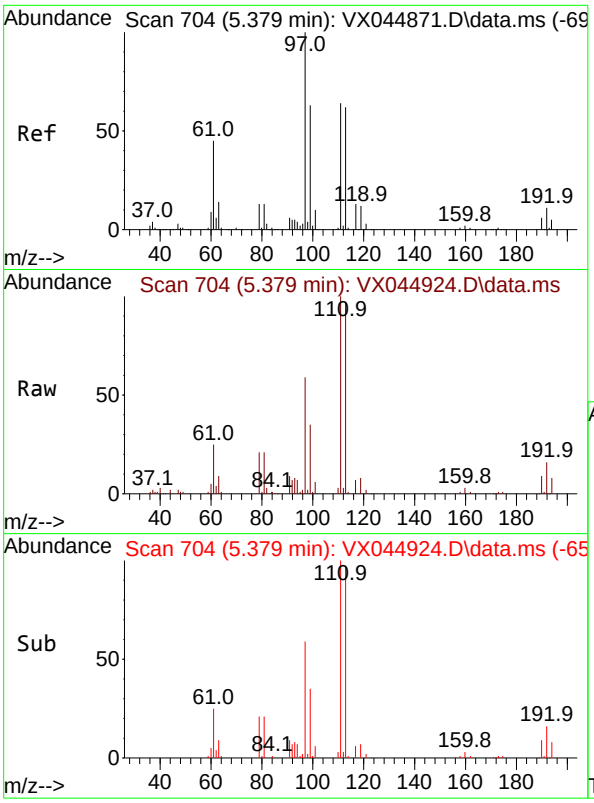


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:114 Resp: 195530

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.1	0.0	31.4



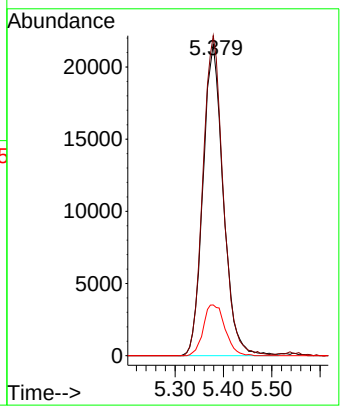


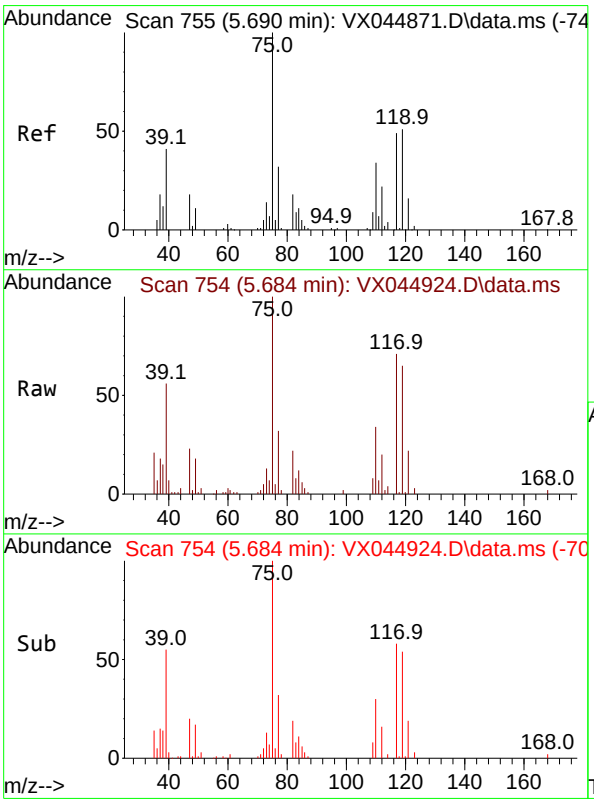
#35
Dibromofluoromethane
Concen: 49.460 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:113 Resp: 62877

Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.5	125.3
192	17.4	14.4	21.6

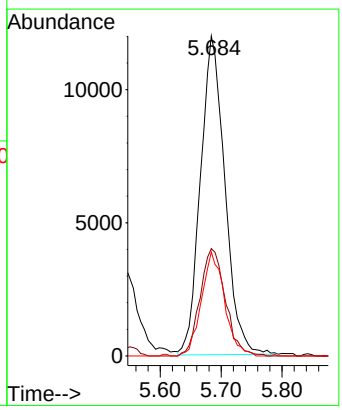


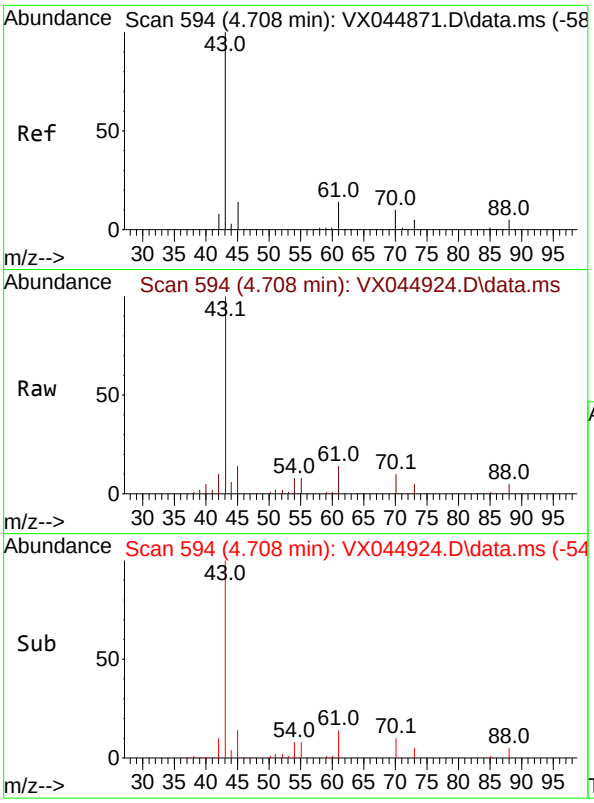


#36
1,1-Dichloropropene
Concen: 18.198 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 33377

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.2	51.6
77	30.8	24.6	37.0



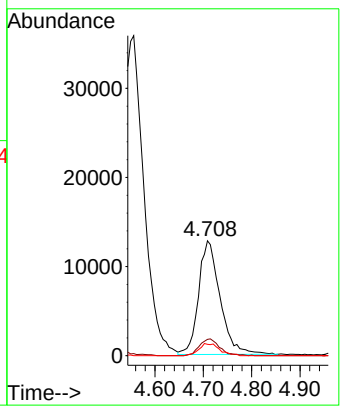


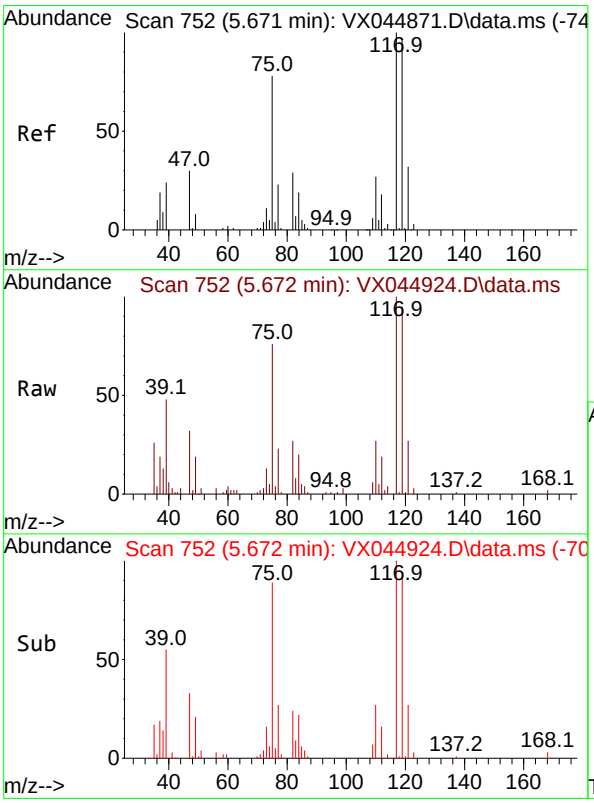
#37
Ethyl Acetate
Concen: 19.317 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 43 Resp: 39407

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.4
70	10.3	8.2	12.2

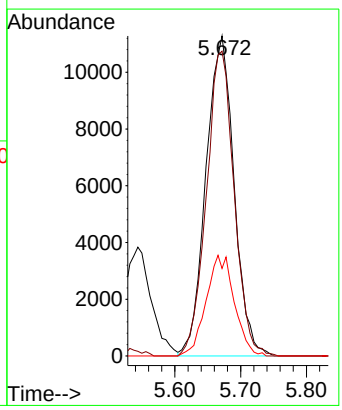


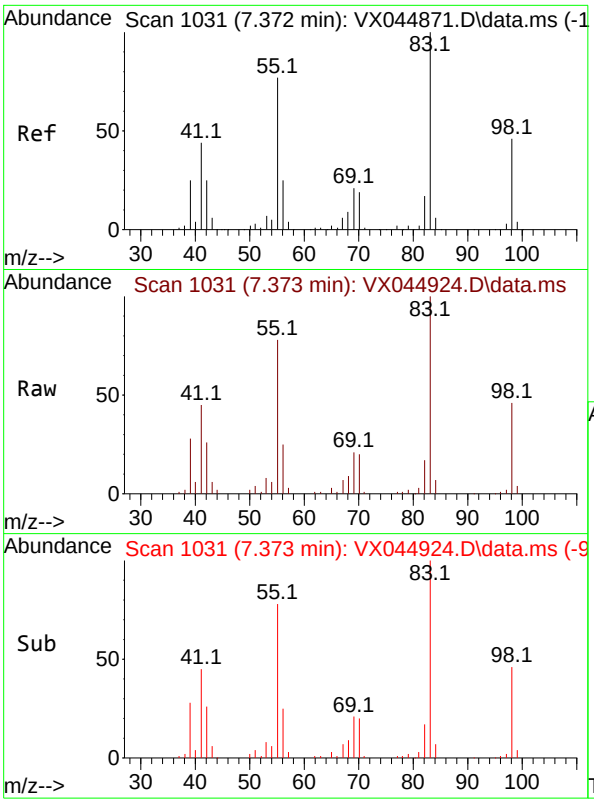


#38
Carbon Tetrachloride
Concen: 18.684 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:117 Resp: 33581

Ion	Ratio	Lower	Upper
117	100		
119	95.3	77.5	116.3
121	27.3	25.6	38.4



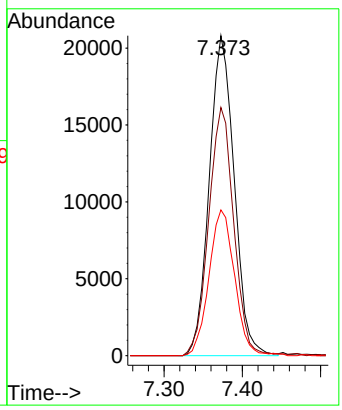


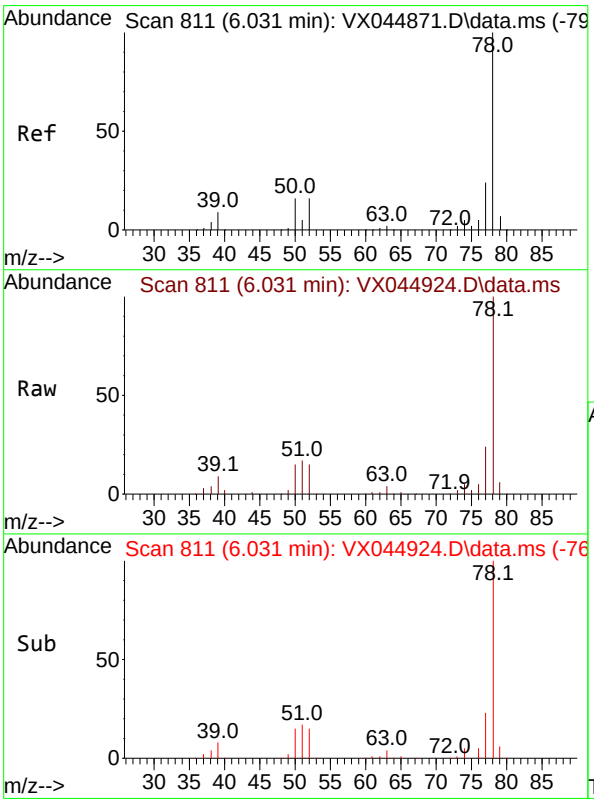
#39
Methylcyclohexane
Concen: 19.417 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 83 Resp: 46041

Ion	Ratio	Lower	Upper
83	100		
55	77.5	61.3	91.9
98	45.5	37.0	55.6

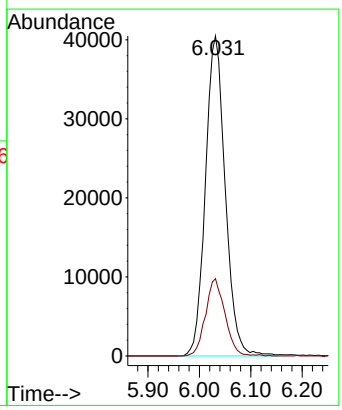


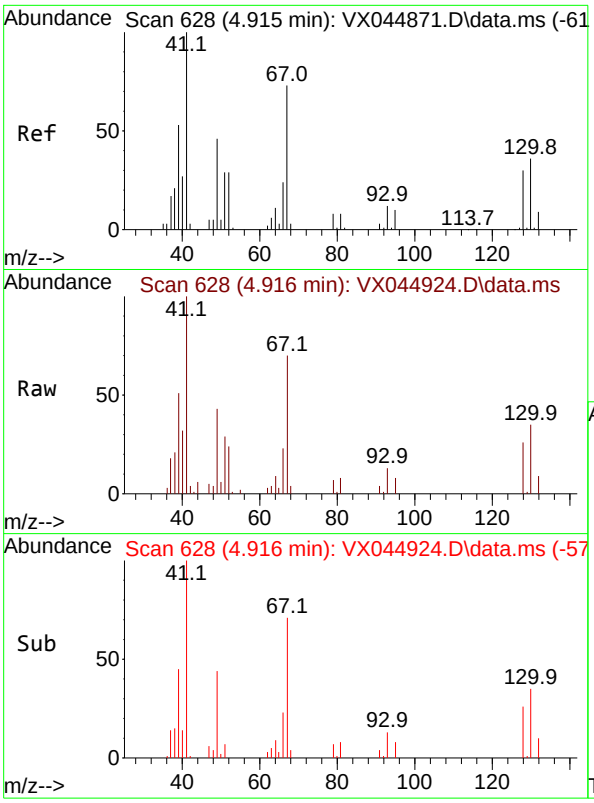


#40
Benzene
Concen: 18.896 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 78 Resp: 108219

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6



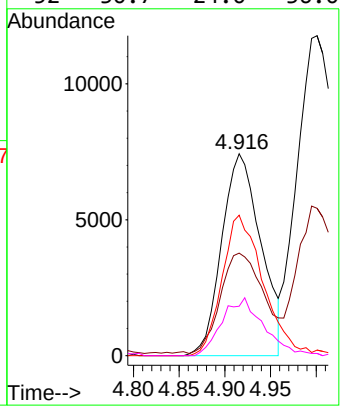


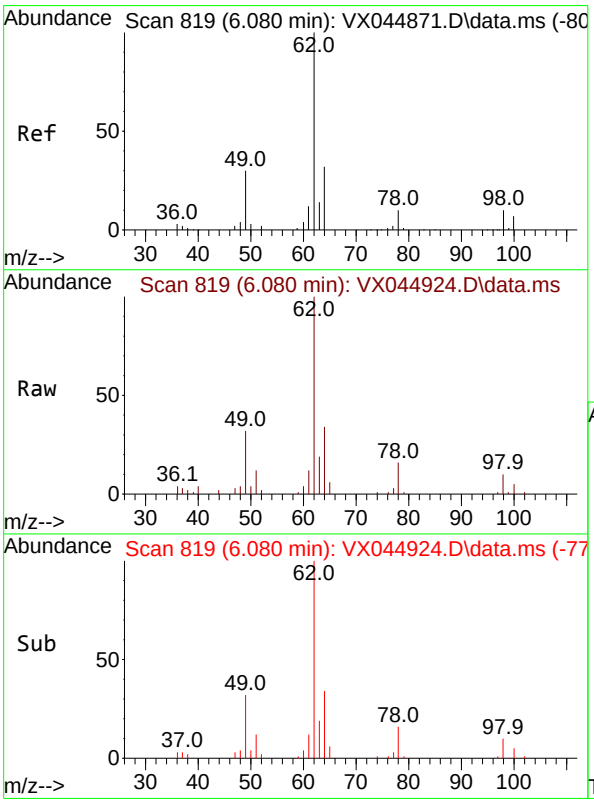
#41
Methacrylonitrile
Concen: 20.286 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 41 Resp: 22151

Ion	Ratio	Lower	Upper
41	100		
39	56.3	43.1	64.7
67	73.8	57.0	85.6
52	30.7	24.0	36.0

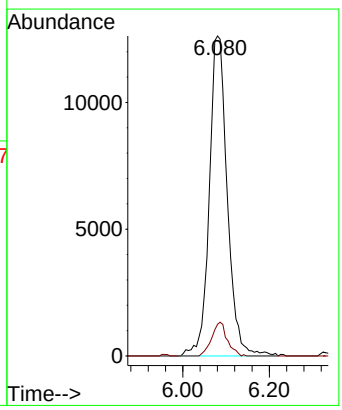


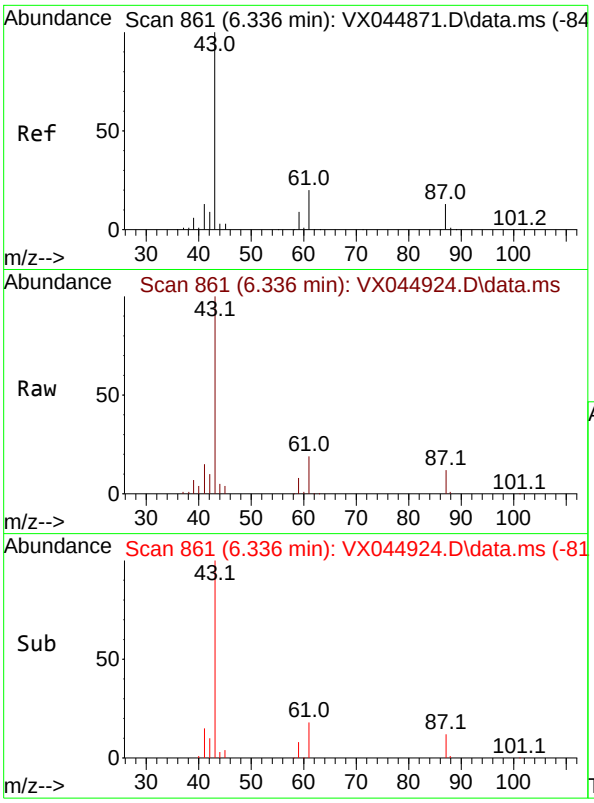


#42
1,2-Dichloroethane
Concen: 19.986 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 62 Resp: 36480

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	19.4



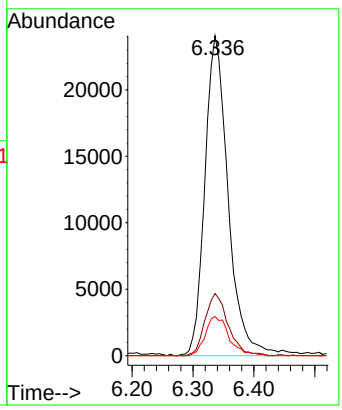


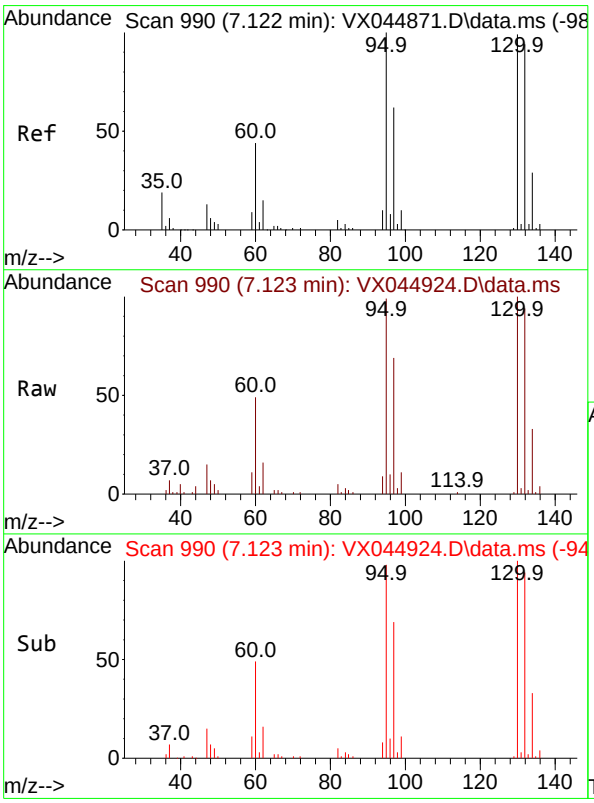
#43
Isopropyl Acetate
Concen: 19.356 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 43 Resp: 63766

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.8	23.8
87	12.5	10.0	15.0

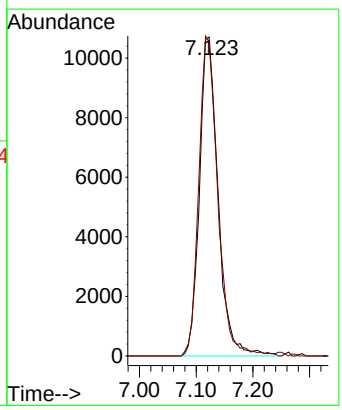


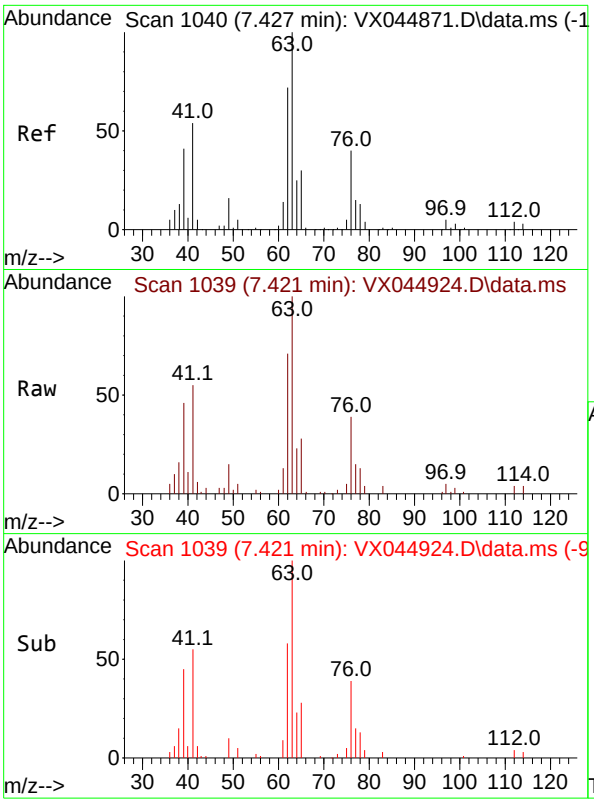


#44
Trichloroethene
Concen: 18.728 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:130 Resp: 24516

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	202.4



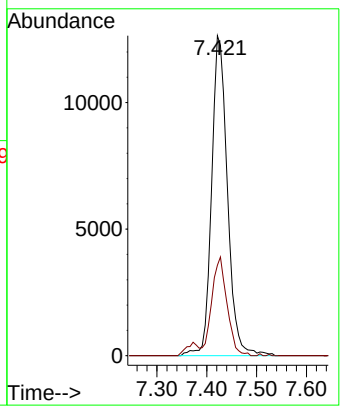


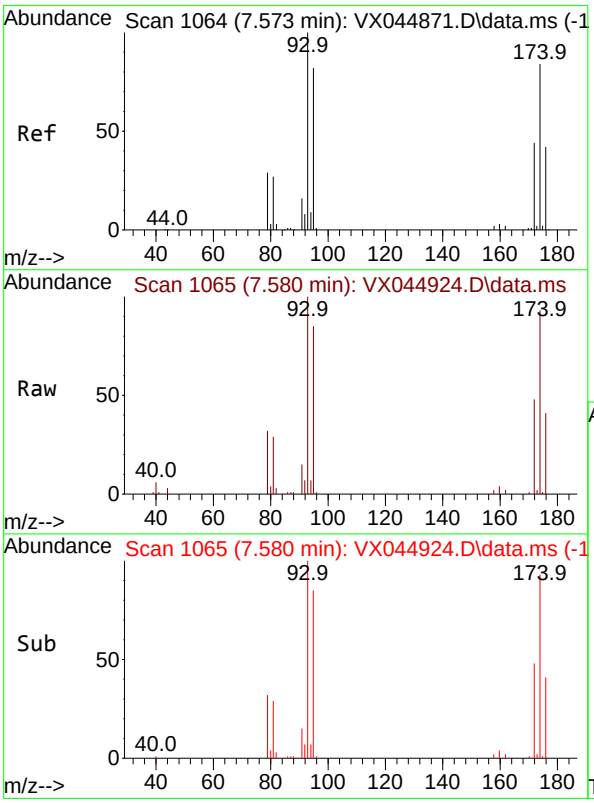
#45
1,2-Dichloropropane
Concen: 19.592 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 63 Resp: 27915

Ion	Ratio	Lower	Upper
63	100		
65	28.2	24.2	36.4

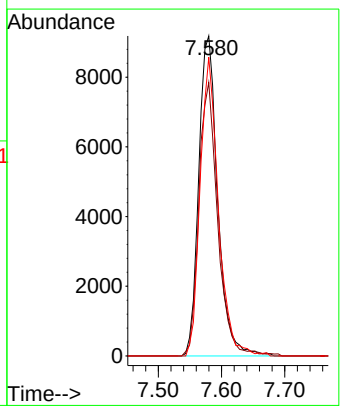


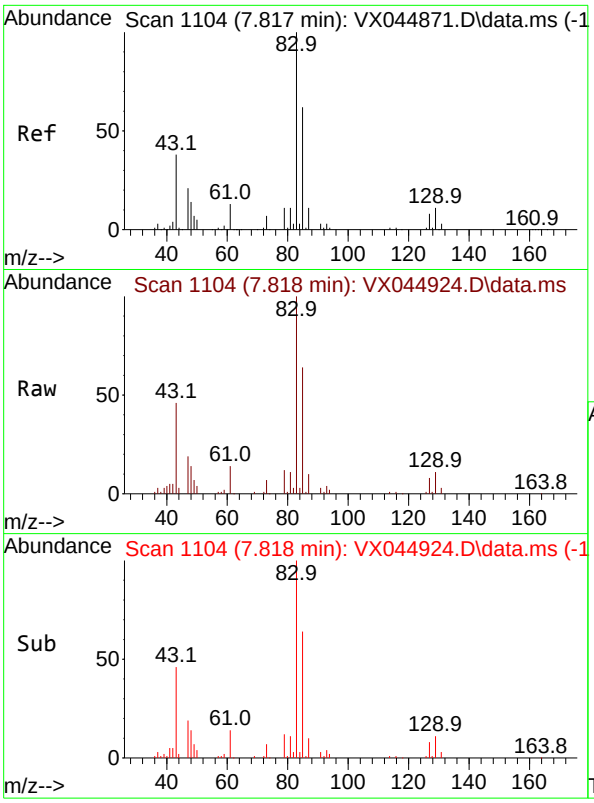


#46
Dibromomethane
Concen: 19.396 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 93 Resp: 19165

Ion	Ratio	Lower	Upper
93	100		
95	84.6	66.2	99.4
174	89.8	69.9	104.9



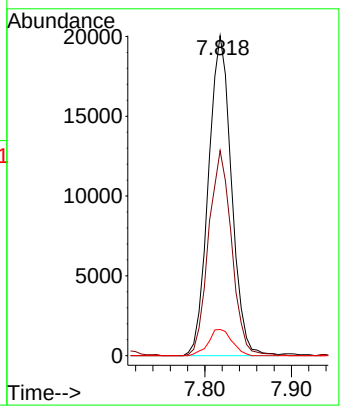


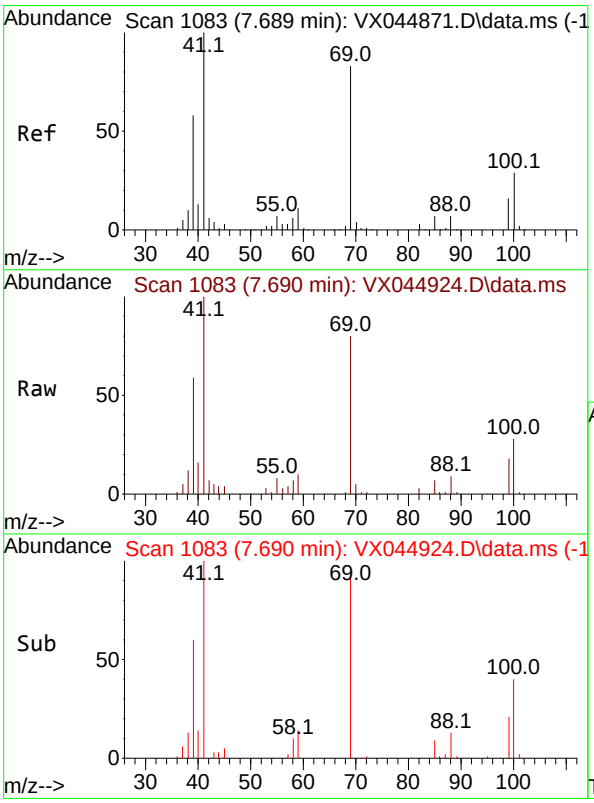
#47
Bromodichloromethane
Concen: 19.337 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 83 Resp: 36997

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.0	75.0
127	8.2	6.4	9.6

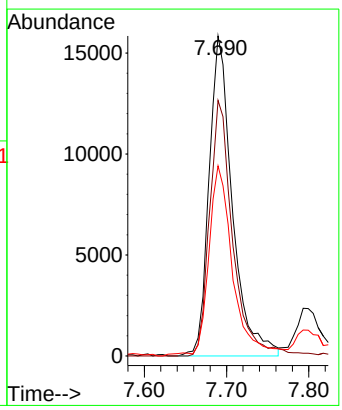


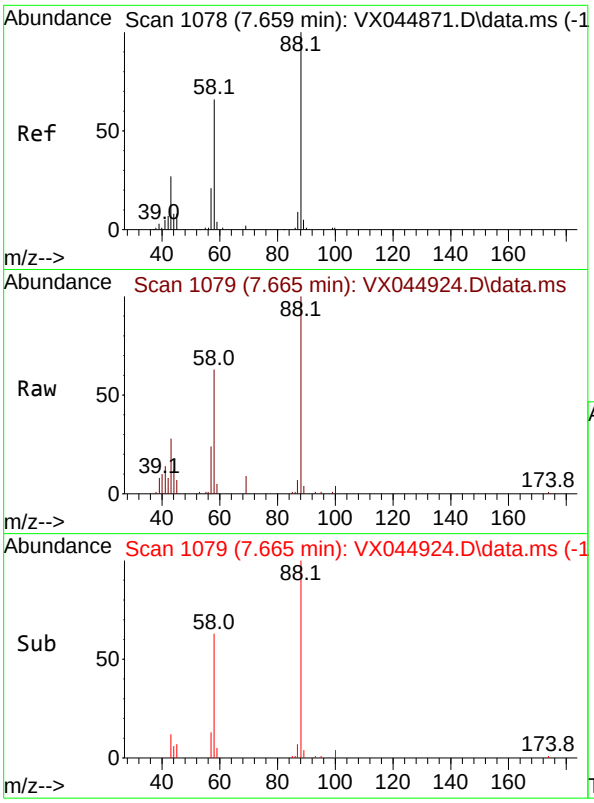


#48
Methyl methacrylate
Concen: 20.087 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 41 Resp: 31202

Ion	Ratio	Lower	Upper
41	100		
69	79.8	65.8	98.8
39	60.9	46.4	69.6



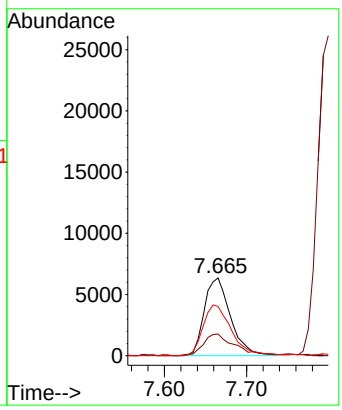


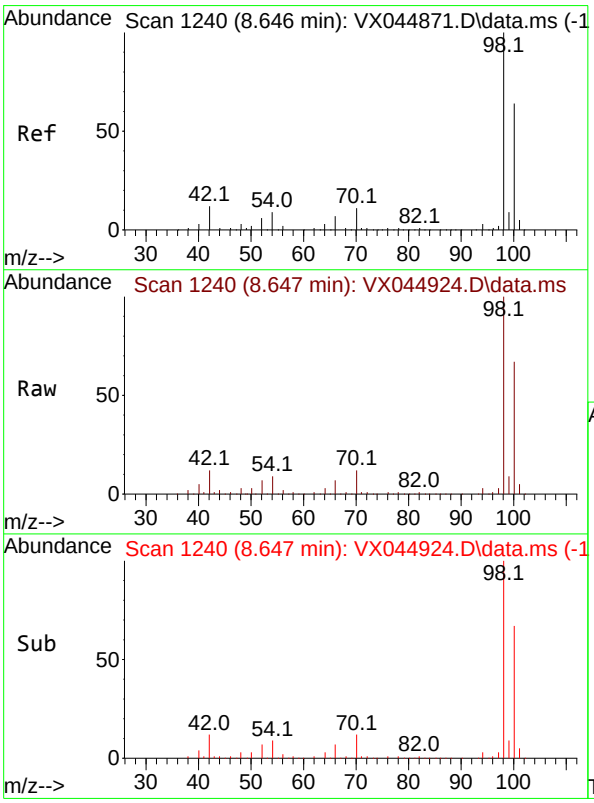
#49
1,4-Dioxane
Concen: 420.866 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 88 Resp: 14026

Ion	Ratio	Lower	Upper
88	100		
43	33.5	26.6	39.8
58	70.7	55.9	83.9

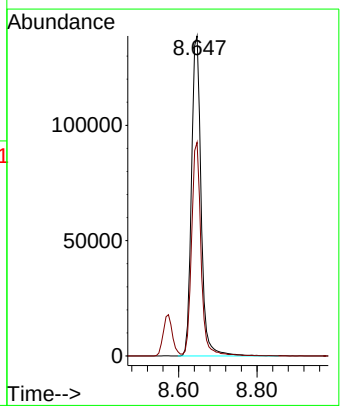


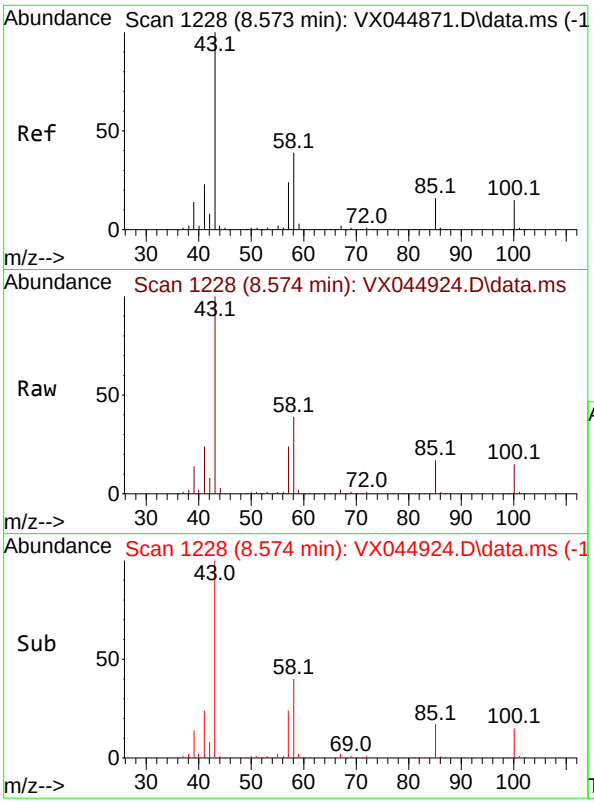


#50
Toluene-d8
Concen: 49.426 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 98 Resp: 237599

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1



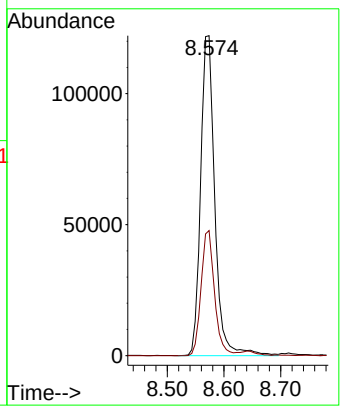


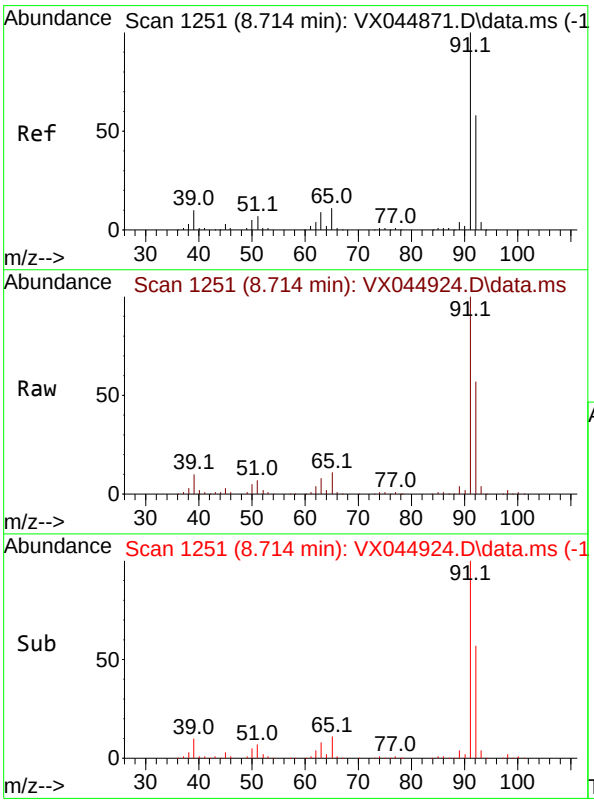
#51
4-Methyl-2-Pentanone
Concen: 106.108 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 43 Resp: 212510

Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.8	46.2

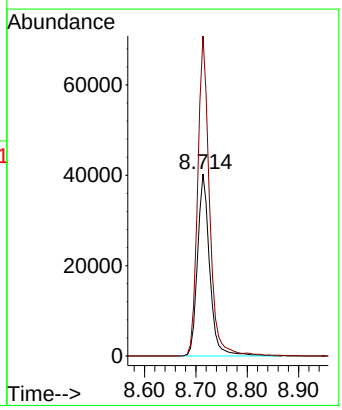


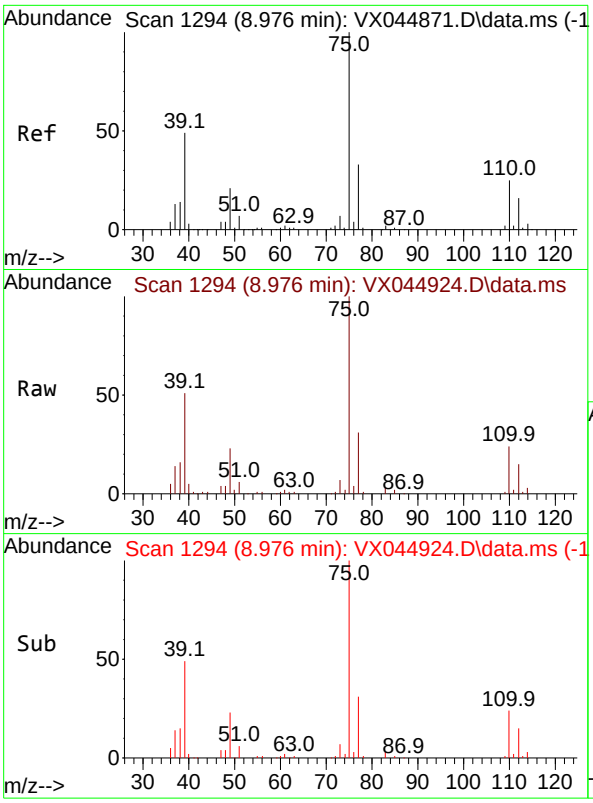


#52
Toluene
Concen: 19.378 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 92 Resp: 66094

Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.4	206.2



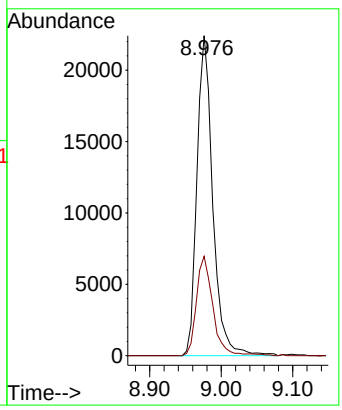


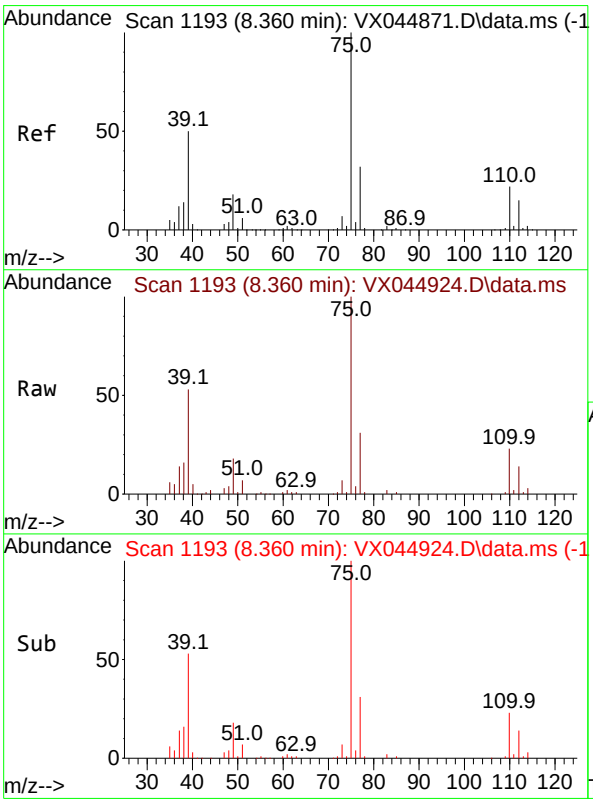
#53
t-1,3-Dichloropropene
Concen: 17.789 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 75 Resp: 34442

Ion	Ratio	Lower	Upper
75	100		
77	31.1	26.0	39.0

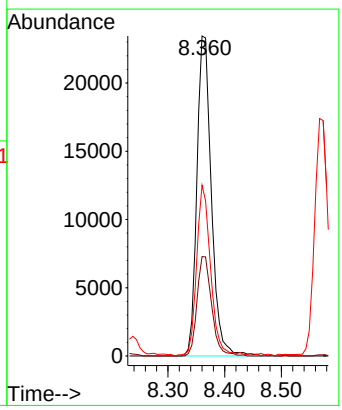


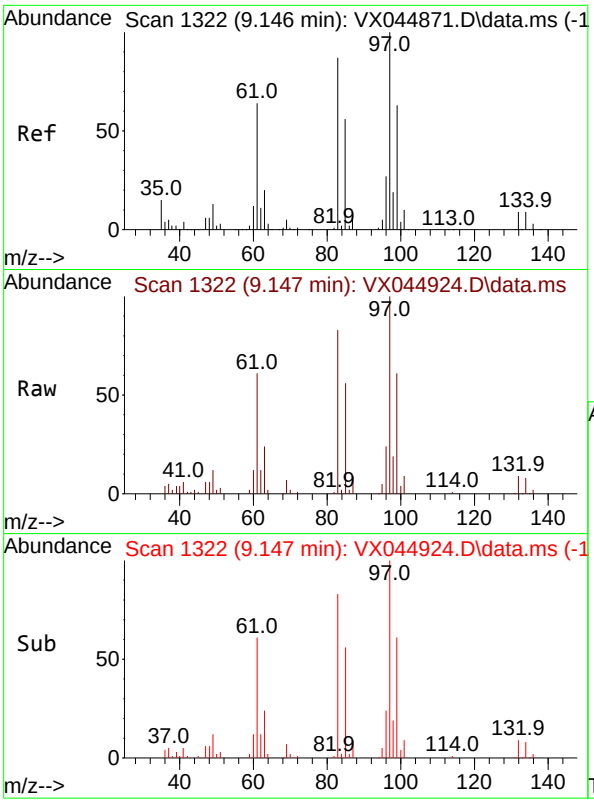


#54
cis-1,3-Dichloropropene
Concen: 19.267 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 41592

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.3	37.9
39	53.0	40.0	60.0



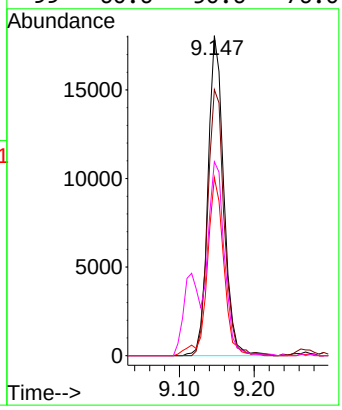


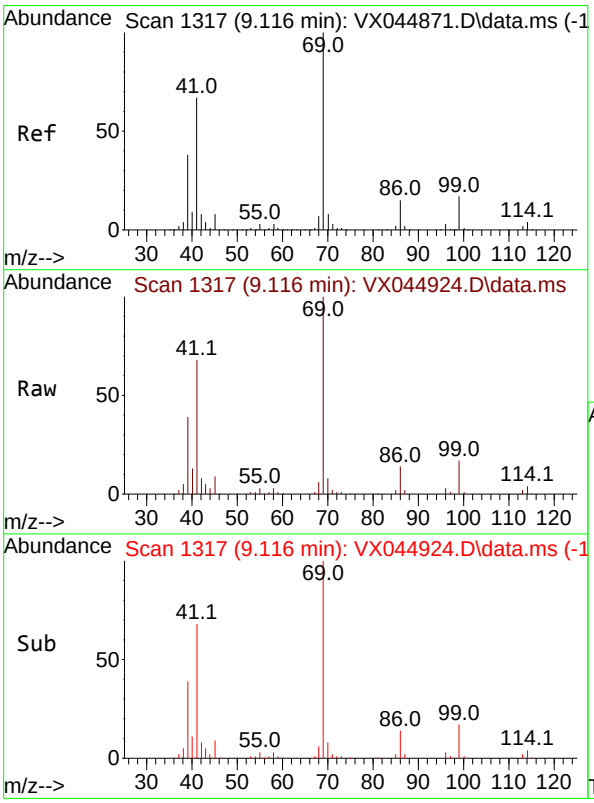
#55
1,1,2-Trichloroethane
Concen: 20.293 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 97 Resp: 26607

Ion	Ratio	Lower	Upper
97	100		
83	83.2	69.8	104.6
85	55.6	44.8	67.2
99	60.6	50.6	76.0

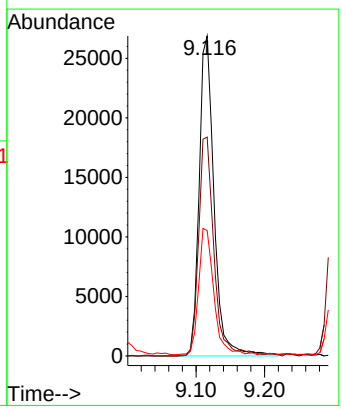


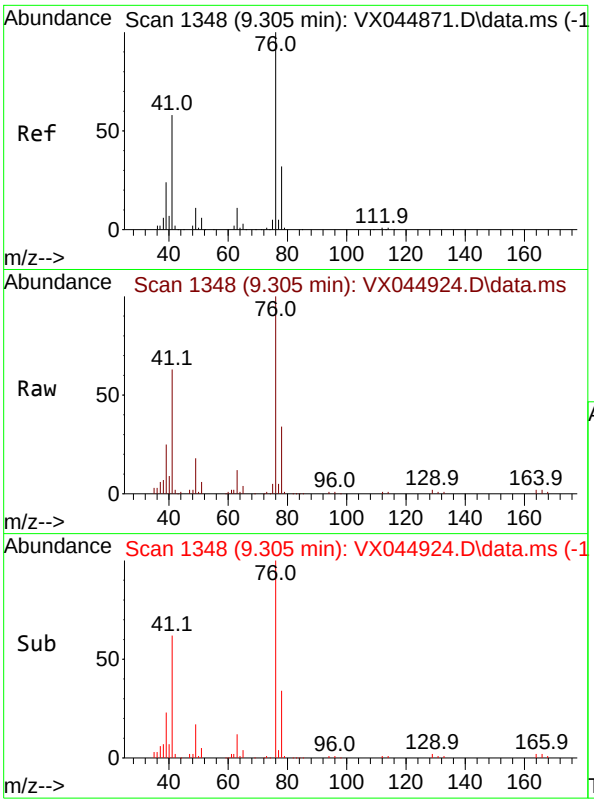


#56
Ethyl methacrylate
Concen: 19.170 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 69 Resp: 40596

Ion	Ratio	Lower	Upper
69	100		
41	70.6	55.2	82.8
39	40.4	30.8	46.2



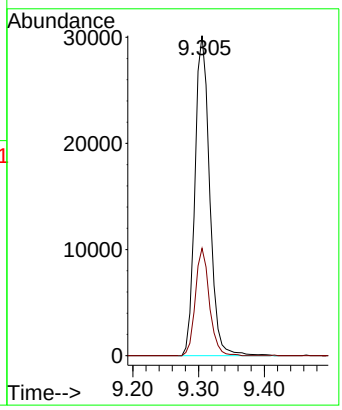


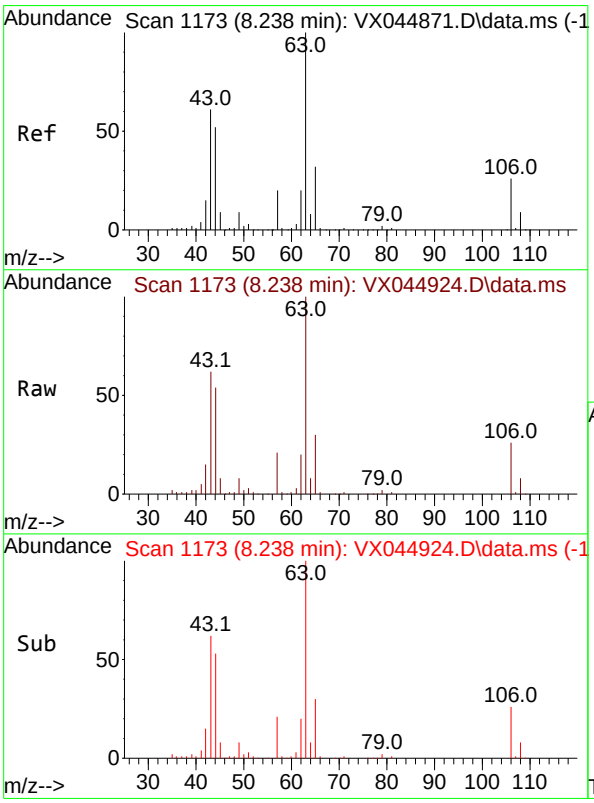
#57
1,3-Dichloropropane
Concen: 20.357 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 76 Resp: 46702

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8

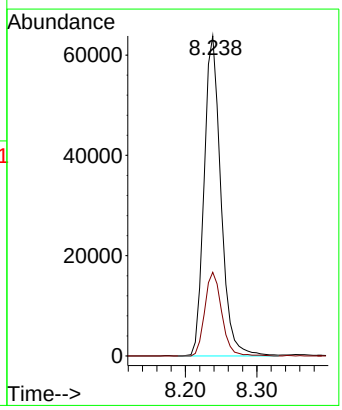


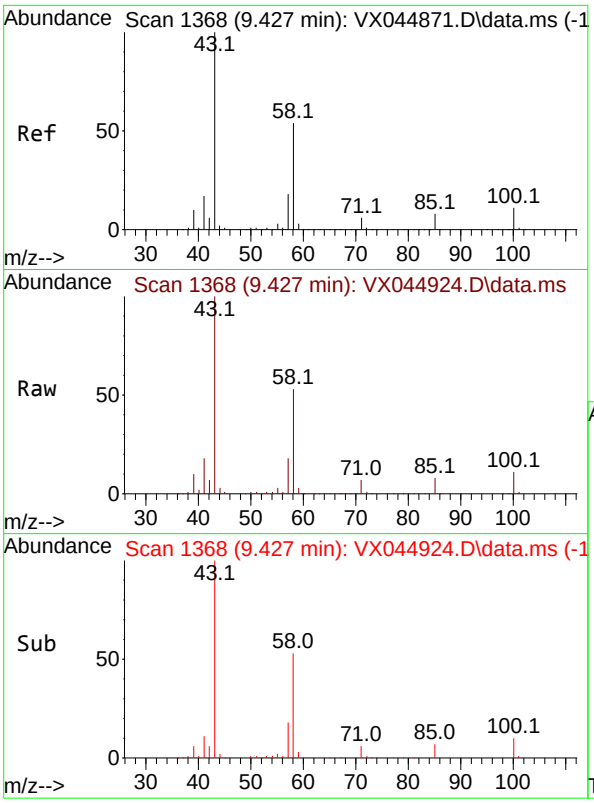


#58
2-Chloroethyl Vinyl ether
Concen: 99.959 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 63 Resp: 103937

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.3	31.9



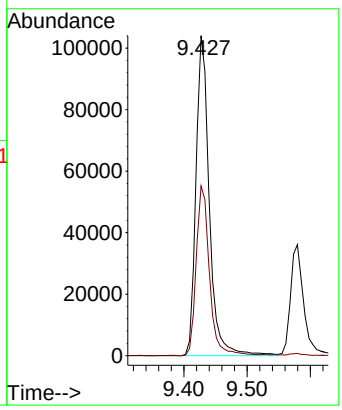


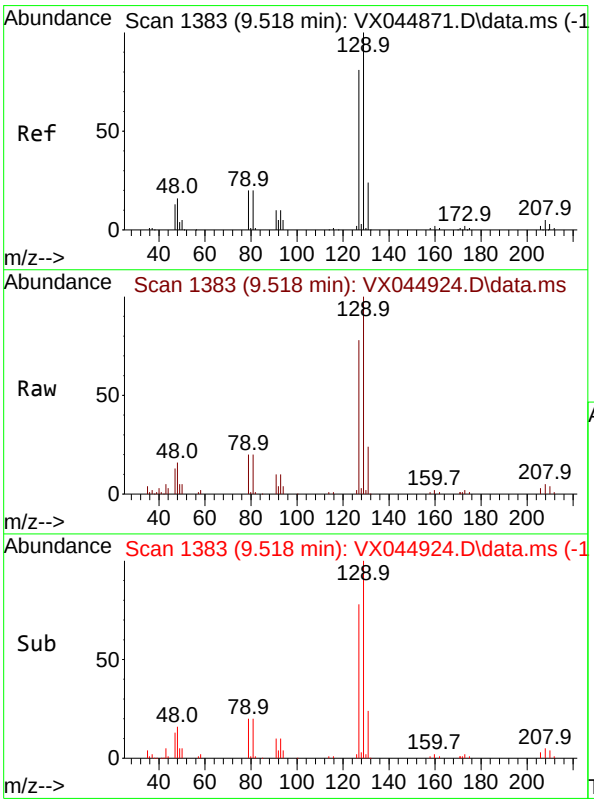
#59
2-Hexanone
Concen: 106.078 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 43 Resp: 153073

Ion	Ratio	Lower	Upper
43	100		
58	52.9	27.5	82.4

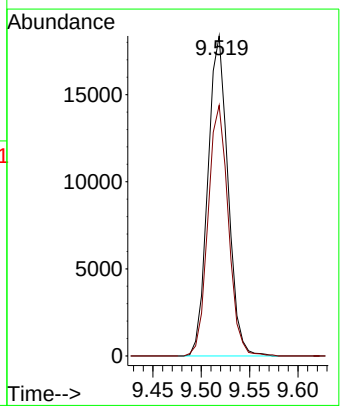


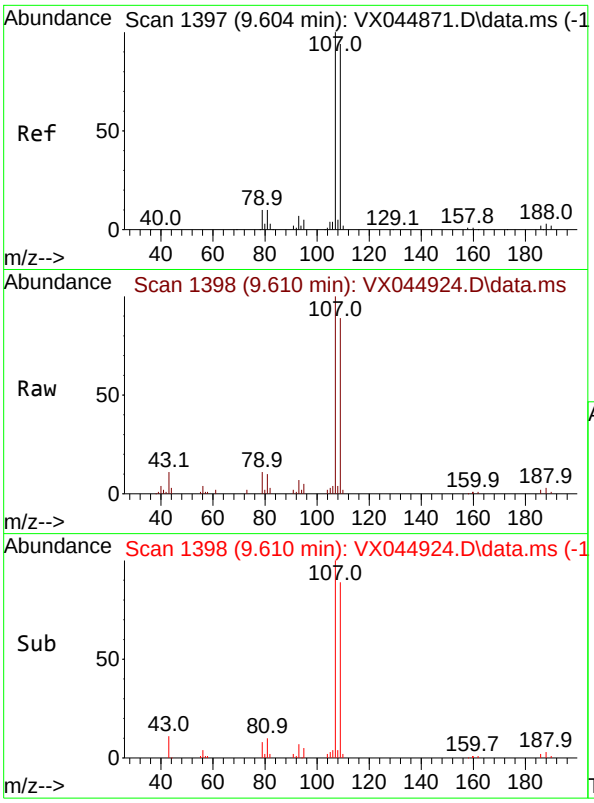


#60
Dibromochloromethane
Concen: 19.022 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:129 Resp: 26674

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.1	117.3



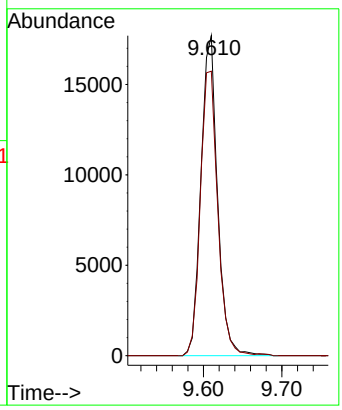


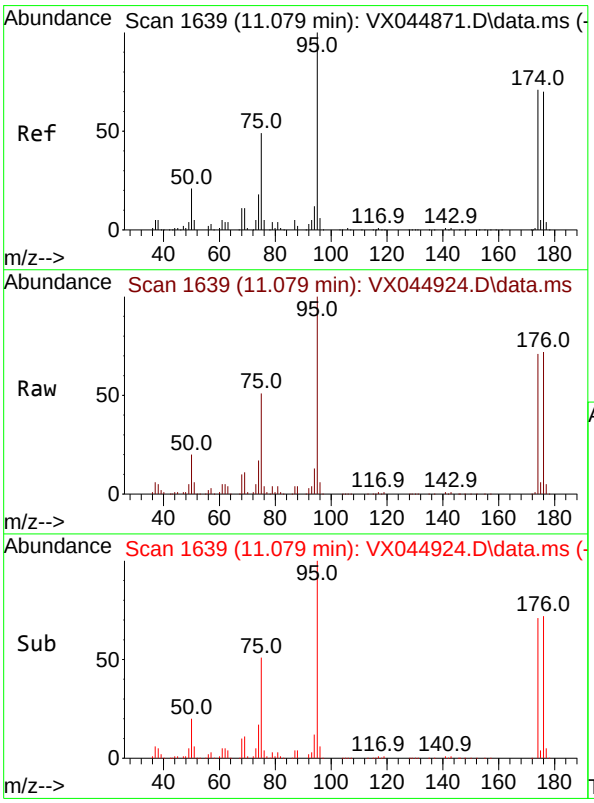
#61
1,2-Dibromoethane
Concen: 19.569 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:107 Resp: 26006

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.9	113.9

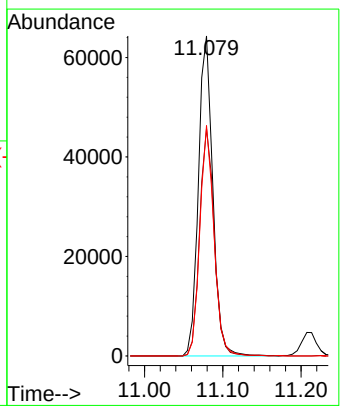


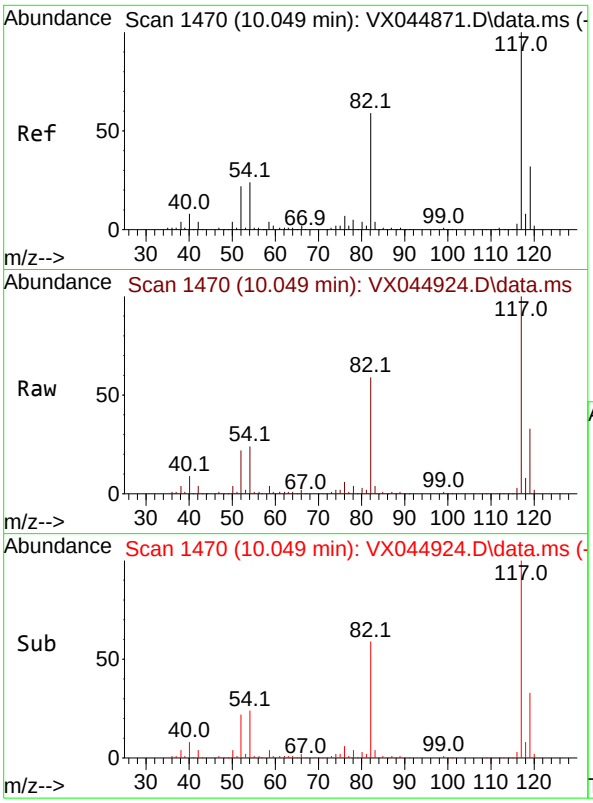


#62
4-Bromofluorobenzene
Concen: 50.822 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 95 Resp: 82362

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	142.6
176	70.3	0.0	141.6



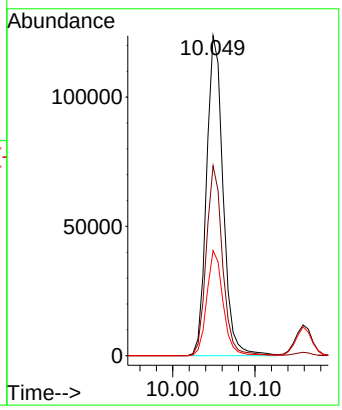


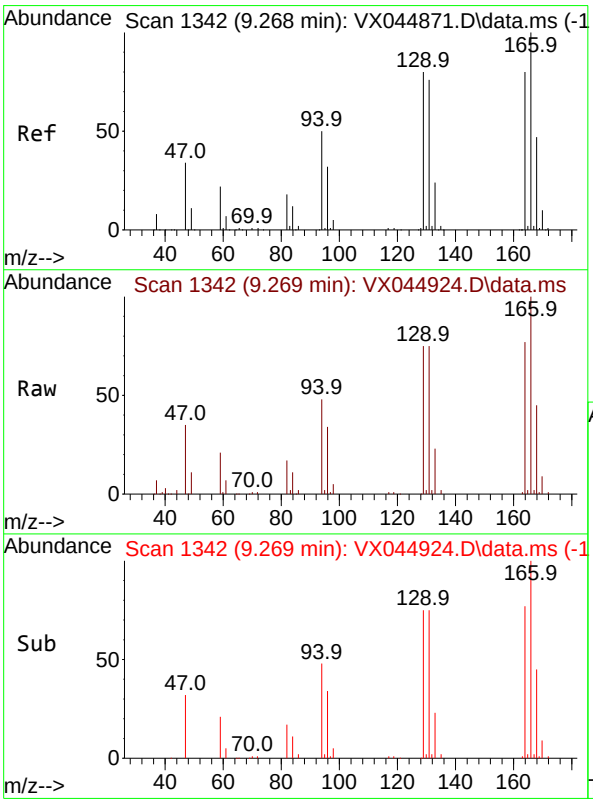
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:117 Resp: 172961

Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	32.9	25.4	38.0

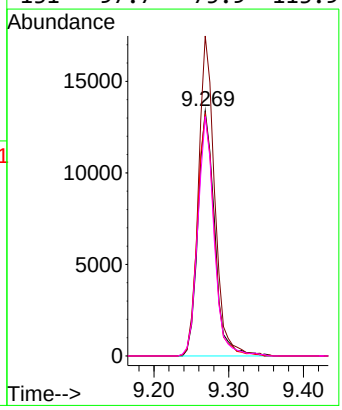


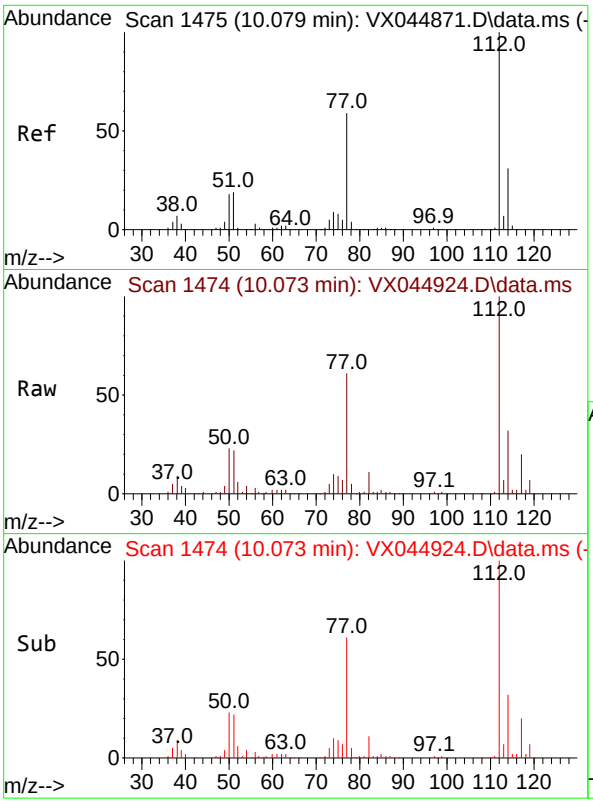


#64
Tetrachloroethene
Concen: 19.003 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:164 Resp: 20728

Ion	Ratio	Lower	Upper
164	100		
166	130.6	100.4	150.6
129	98.4	79.9	119.9
131	97.7	75.9	113.9



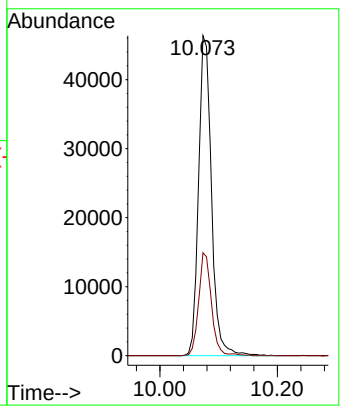


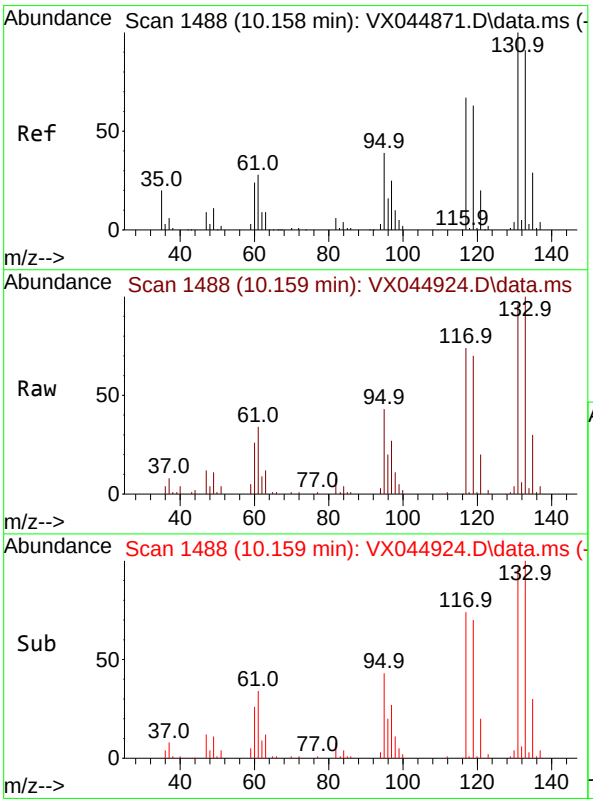
#65
Chlorobenzene
Concen: 19.047 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:112 Resp: 70760

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.0	37.6

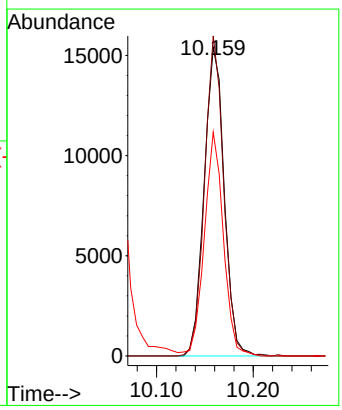


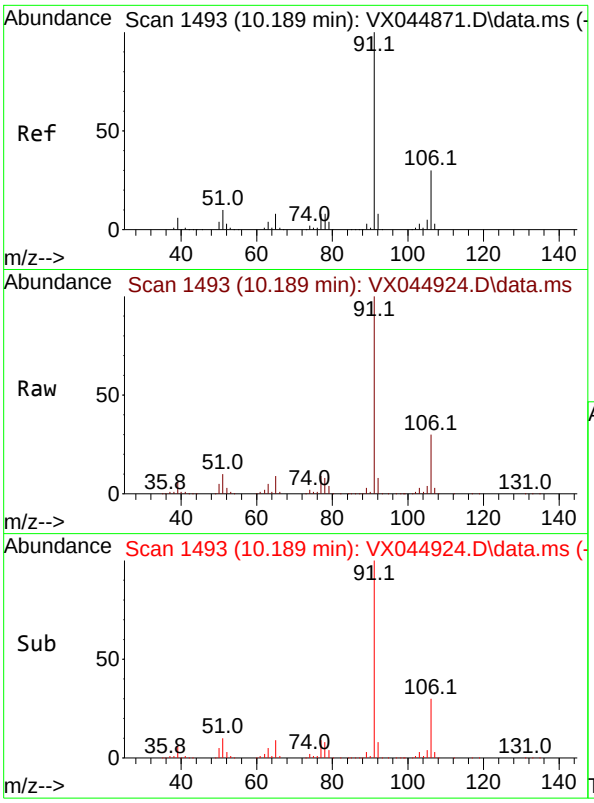


#66
1,1,1,2-Tetrachloroethane
Concen: 18.675 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:131 Resp: 22330

Ion	Ratio	Lower	Upper
131	100		
133	98.4	47.1	141.3
119	68.7	33.6	100.6



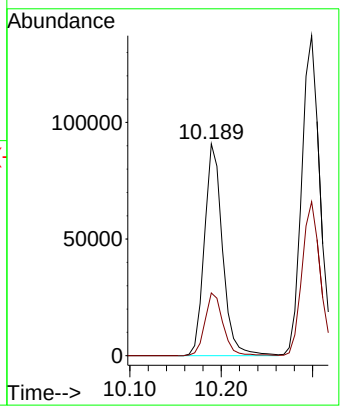


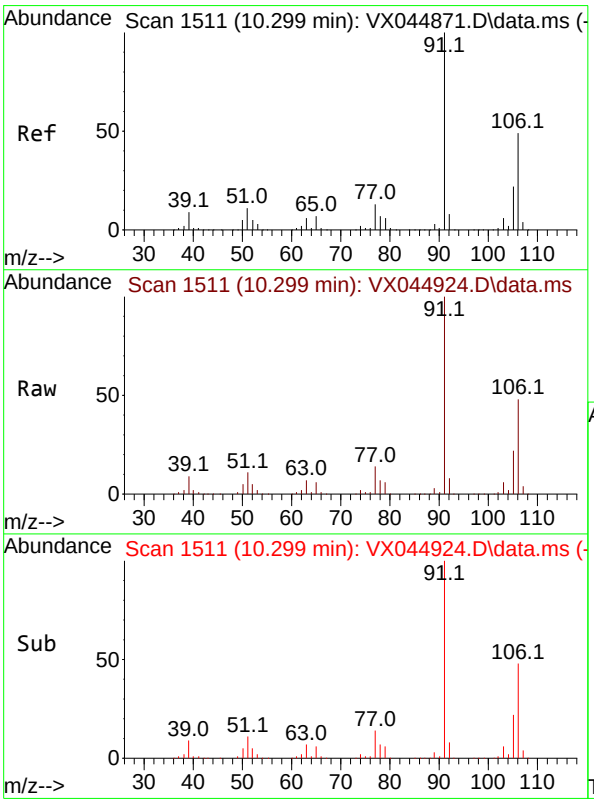
#67
Ethyl Benzene
Concen: 19.032 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 91 Resp: 124767

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.9	35.9

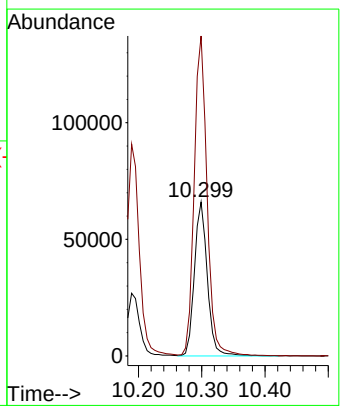


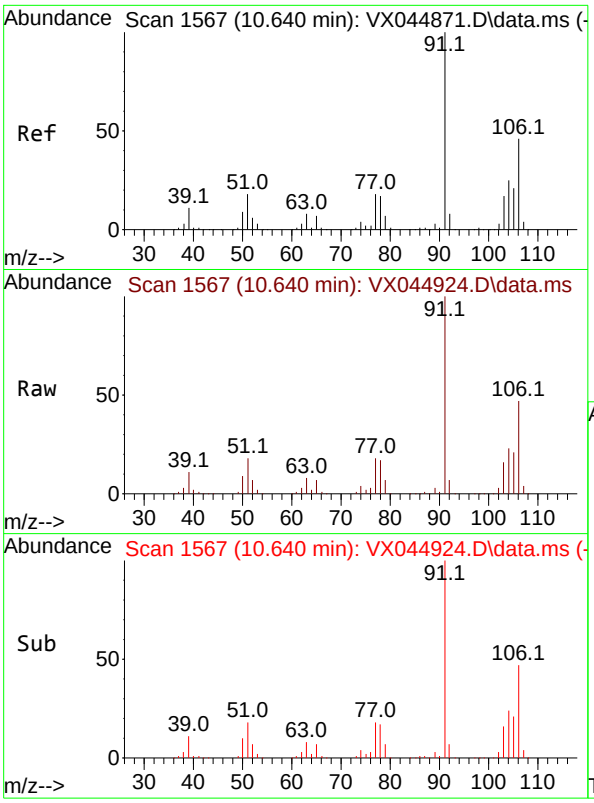


#68
m/p-Xylenes
Concen: 38.868 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:106 Resp: 93995

Ion	Ratio	Lower	Upper
106	100		
91	206.9	164.3	246.5



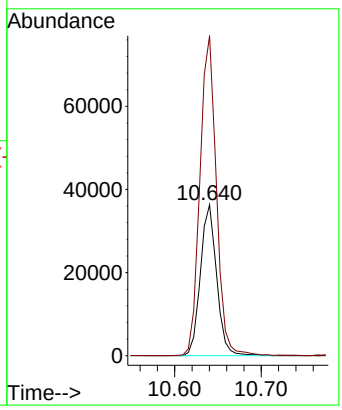


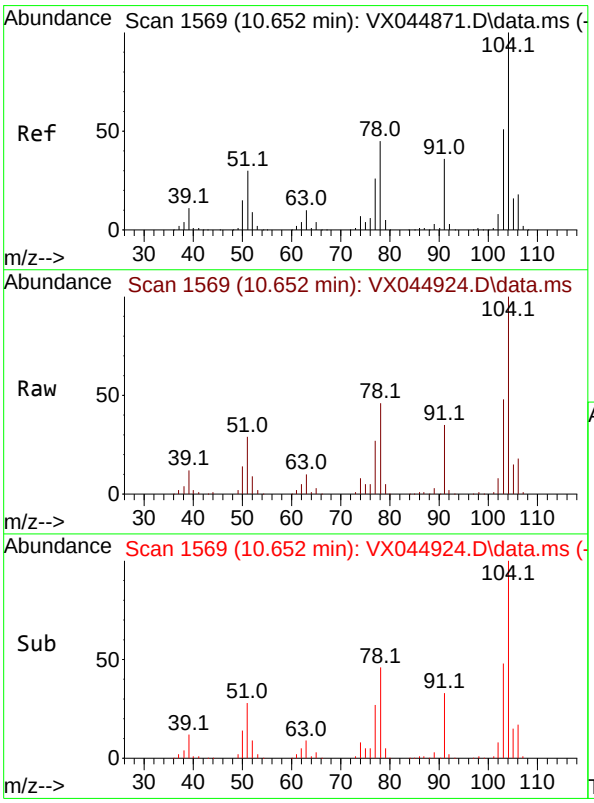
#69
o-Xylene
Concen: 19.524 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:106 Resp: 47375

Ion	Ratio	Lower	Upper
106	100		
91	214.9	108.5	325.5

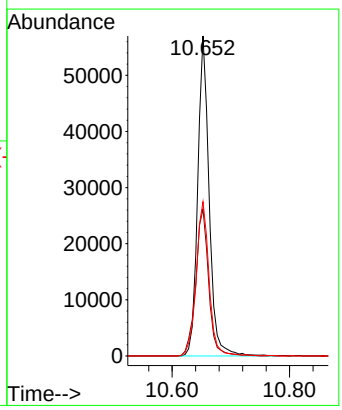


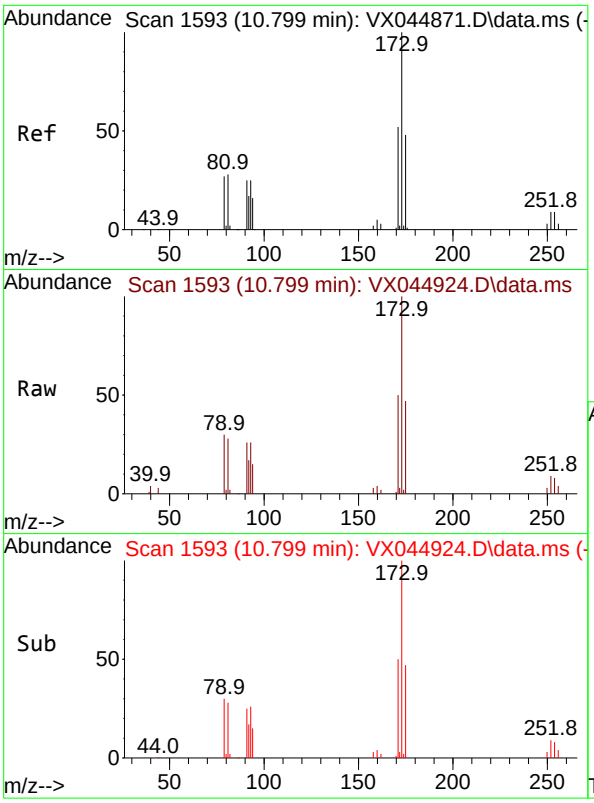


#70
Styrene
Concen: 19.743 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:104 Resp: 77185

Ion	Ratio	Lower	Upper
104	100		
78	51.9	40.5	60.7
103	53.8	43.6	65.4



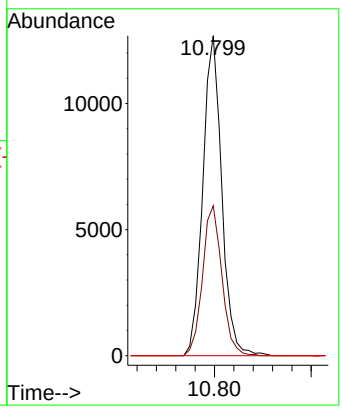


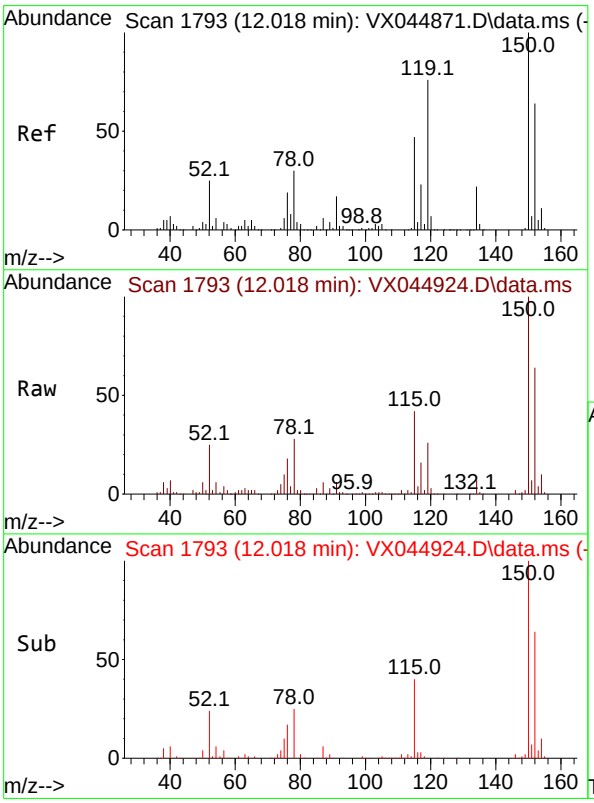
#71
Bromoform
Concen: 19.365 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:173 Resp: 17281

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.3	72.8
254	0.0	0.0	0.0

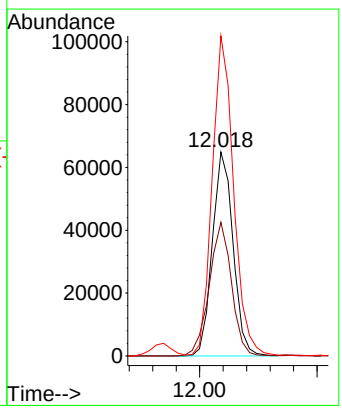


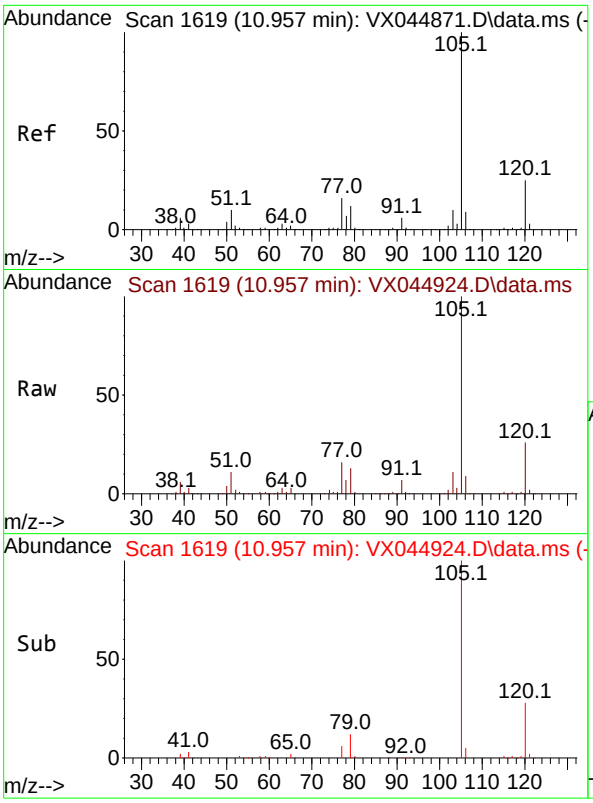


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:152 Resp: 79611

Ion	Ratio	Lower	Upper
152	100		
115	70.2	43.4	130.1
150	161.8	0.0	350.4



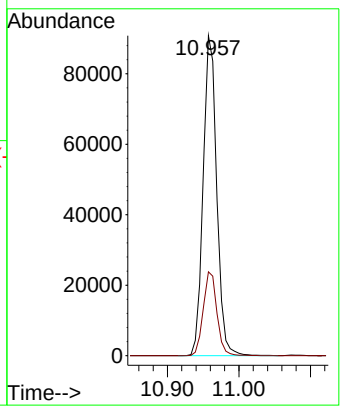


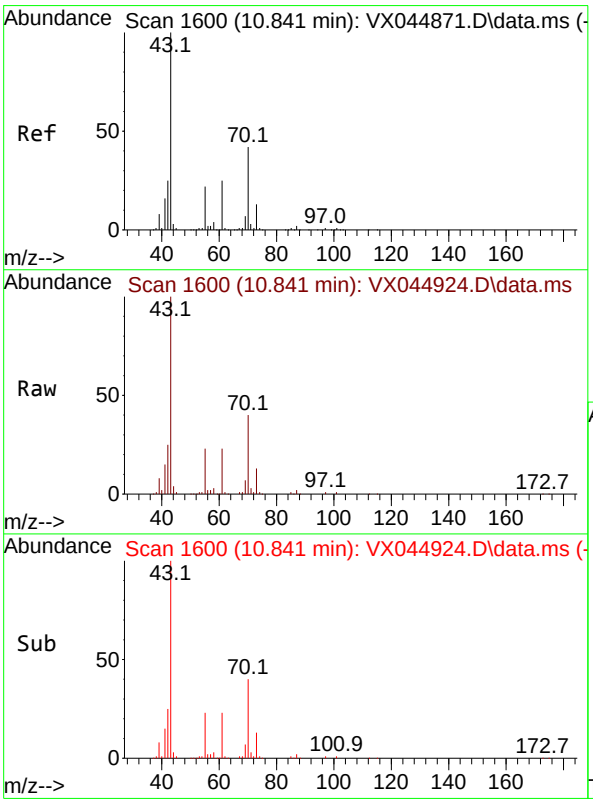
#73
Isopropylbenzene
Concen: 18.671 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:105 Resp: 119685

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.5

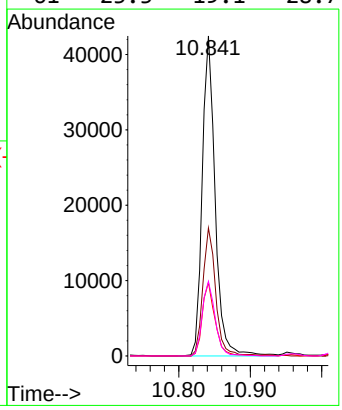


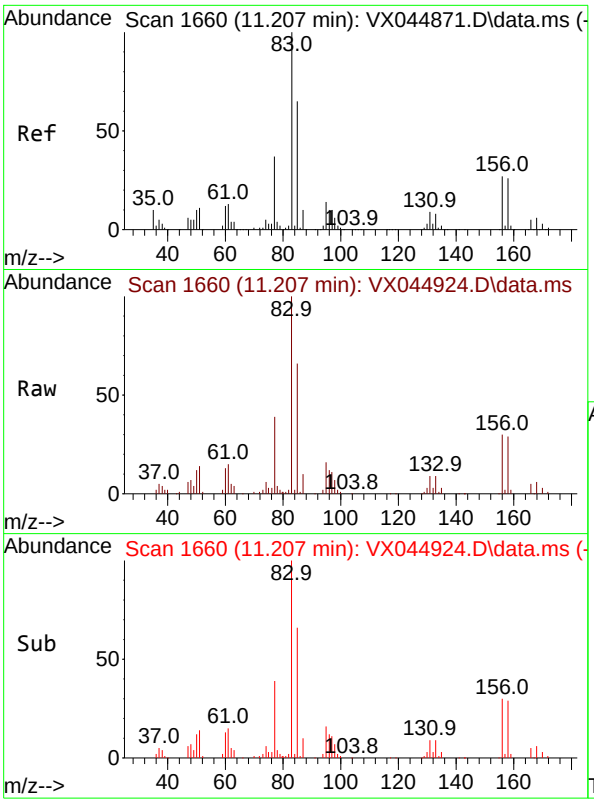


#74
N-amyl acetate
Concen: 18.396 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 43 Resp: 53361

Ion	Ratio	Lower	Upper
43	100		
70	40.2	33.7	50.5
55	22.7	18.6	27.8
61	23.3	19.1	28.7



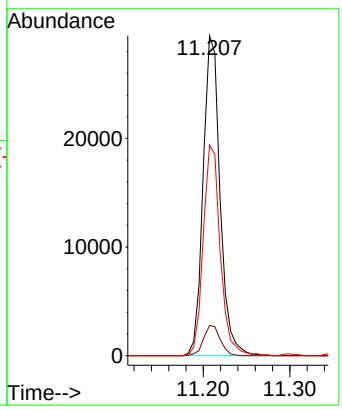


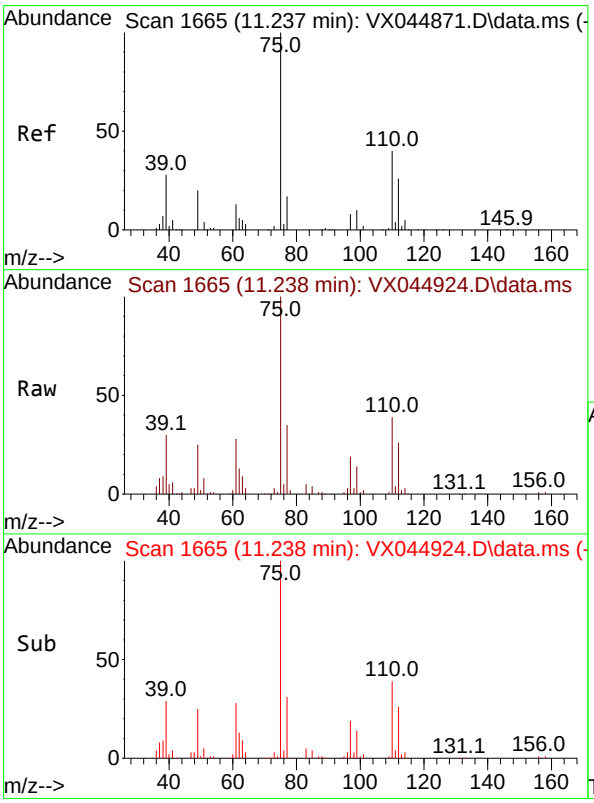
#75
1,1,2,2-Tetrachloroethane
Concen: 18.190 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 83 Resp: 40067

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.5
85	66.2	32.3	96.8

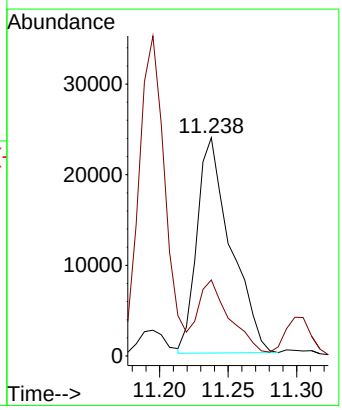


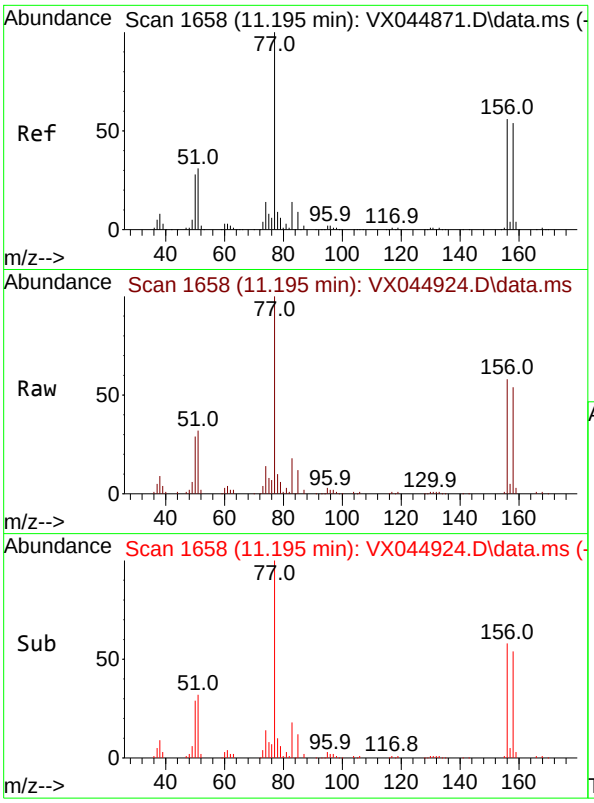


#76
1,2,3-Trichloropropane
Concen: 23.127 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 40821

Ion	Ratio	Lower	Upper
75	100		
77	34.1	21.9	65.7



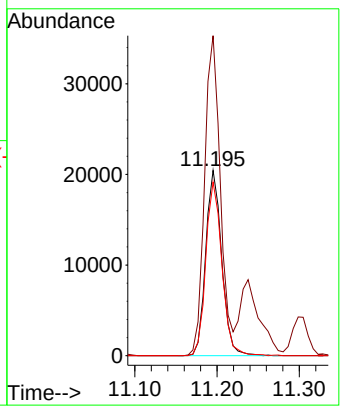


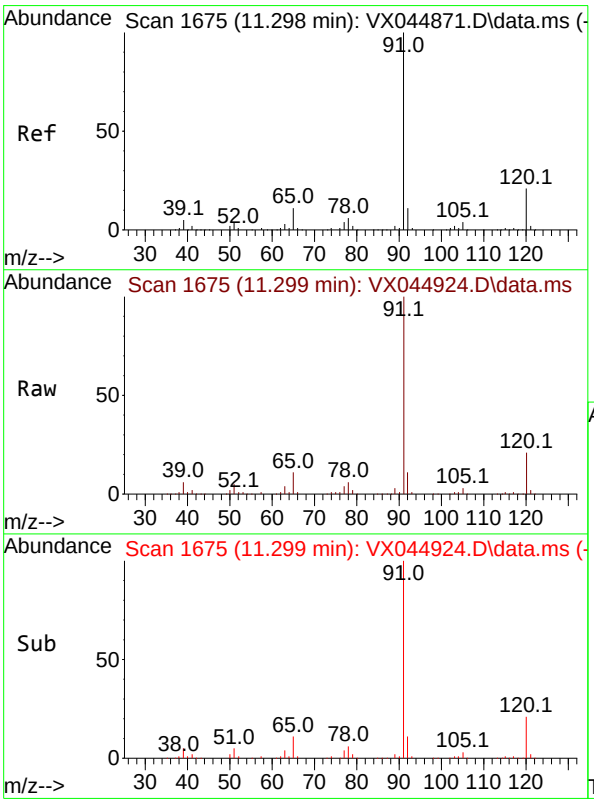
#77
Bromobenzene
Concen: 19.015 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:156 Resp: 27635

Ion	Ratio	Lower	Upper
156	100		
77	170.3	88.4	265.3
158	94.5	48.4	145.2

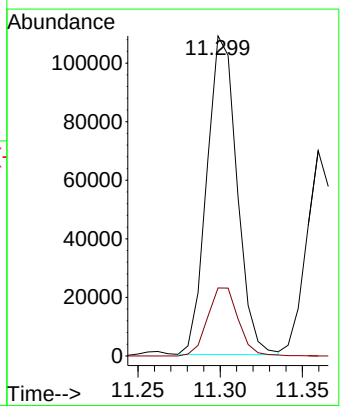


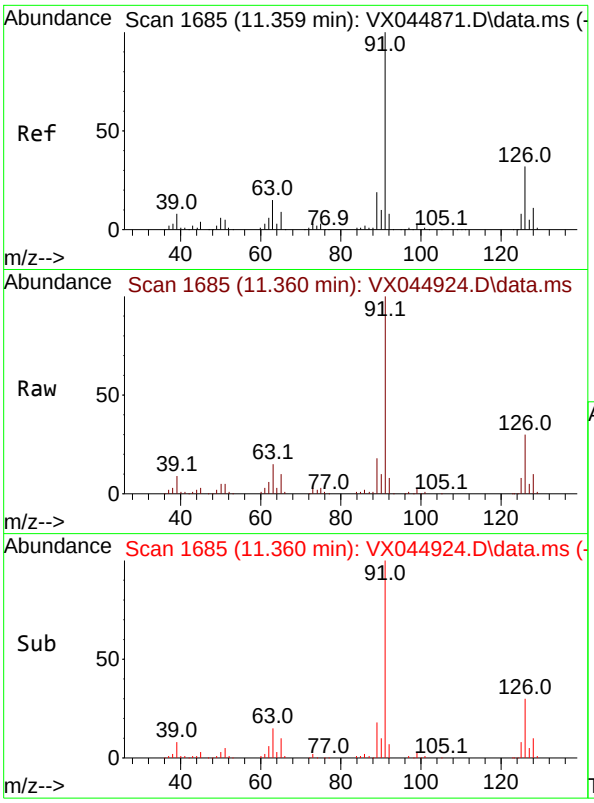


#78
n-propylbenzene
Concen: 18.758 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 91 Resp: 138789

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3



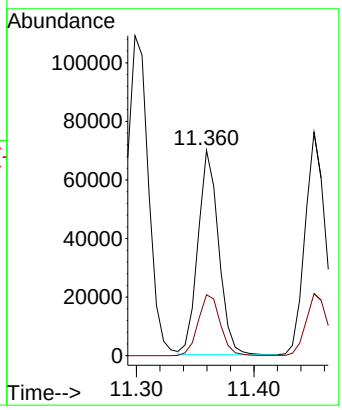


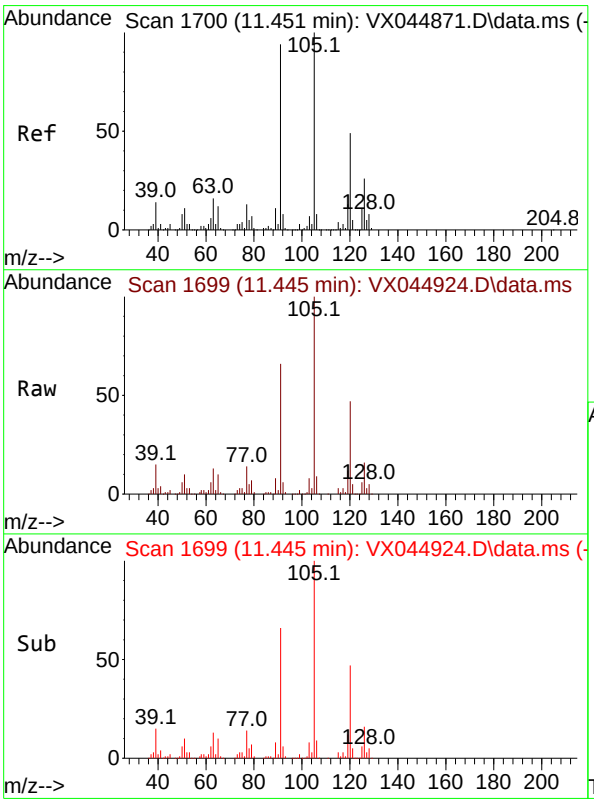
#79
2-Chlorotoluene
Concen: 18.770 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 91 Resp: 85355

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.2	48.6

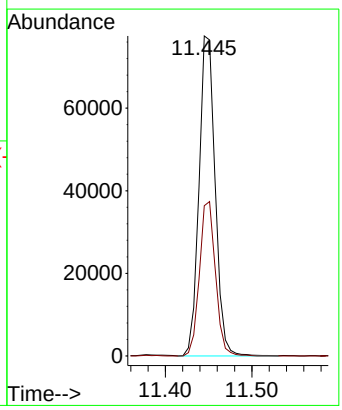


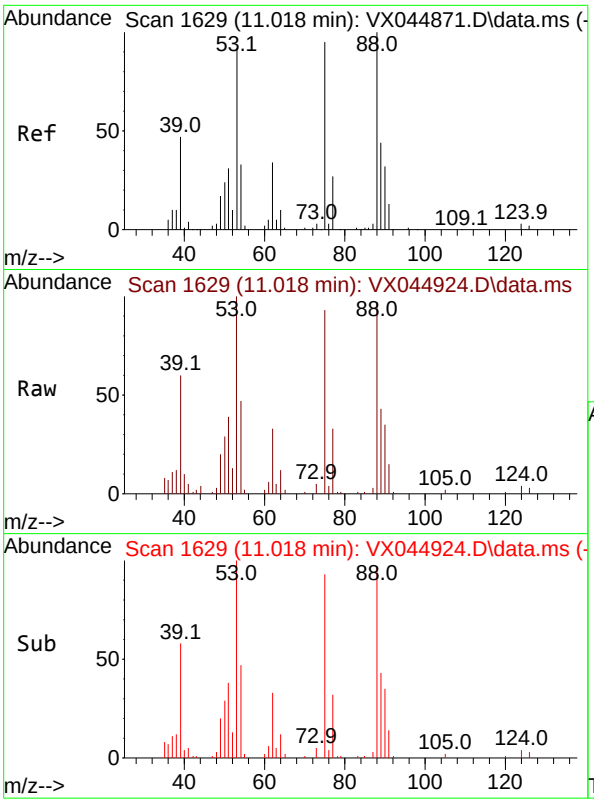


#80
1,3,5-Trimethylbenzene
Concen: 19.305 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:105 Resp: 100422

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.0	72.0



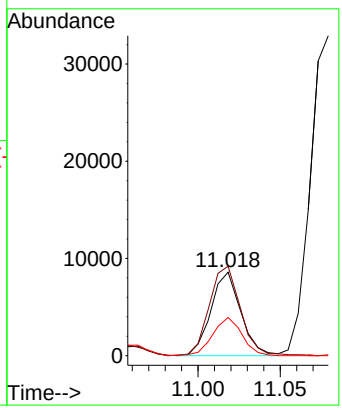


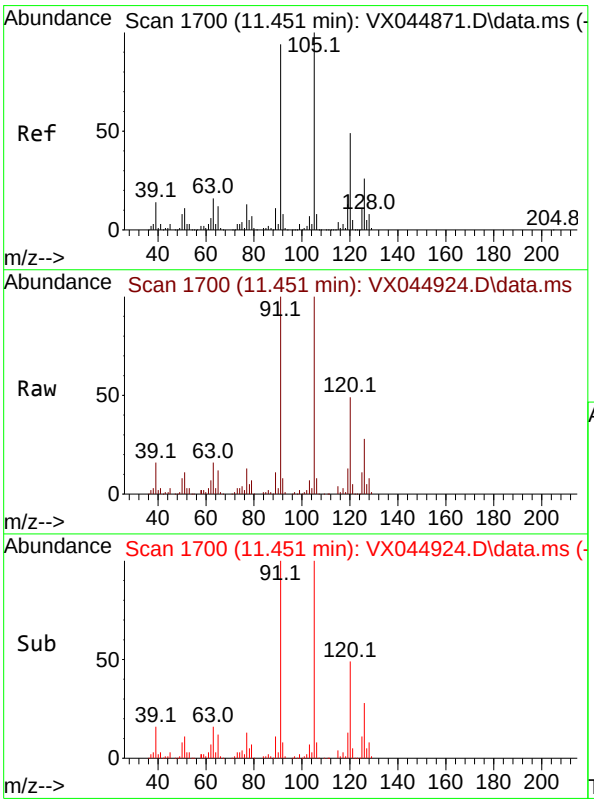
#81
trans-1,4-Dichloro-2-butene
Concen: 15.935 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 75 Resp: 10934

Ion	Ratio	Lower	Upper
75	100		
53	111.0	78.0	117.0
89	44.5	36.6	54.8

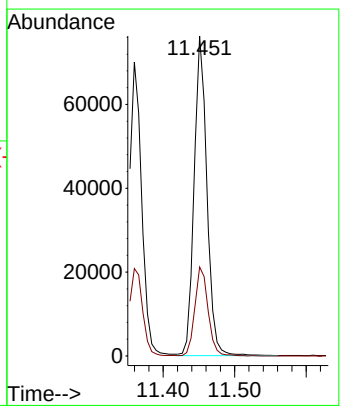


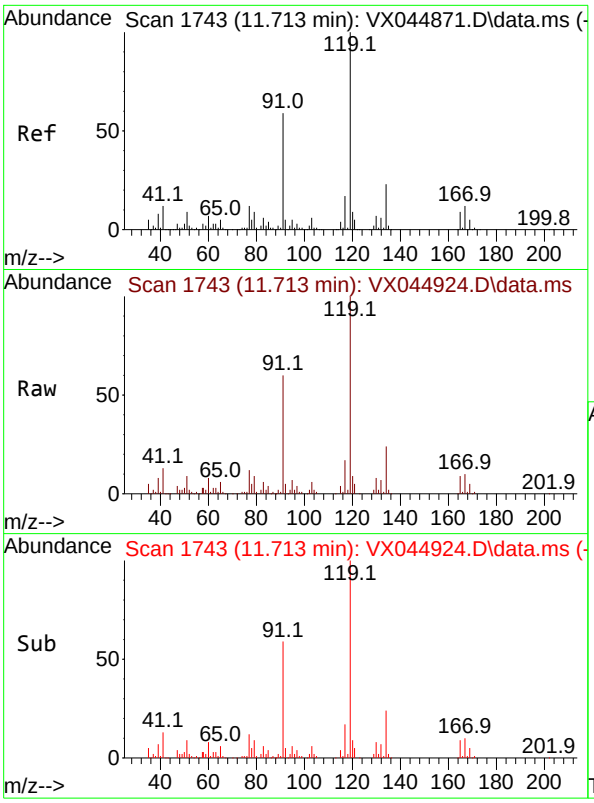


#82
4-Chlorotoluene
Concen: 18.774 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 91 Resp: 94450

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.2	42.6



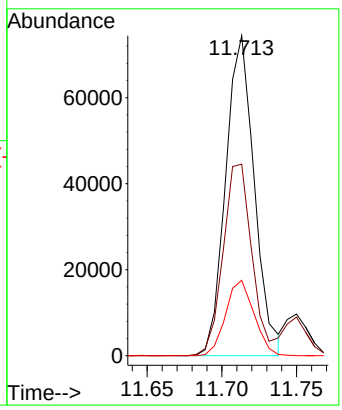


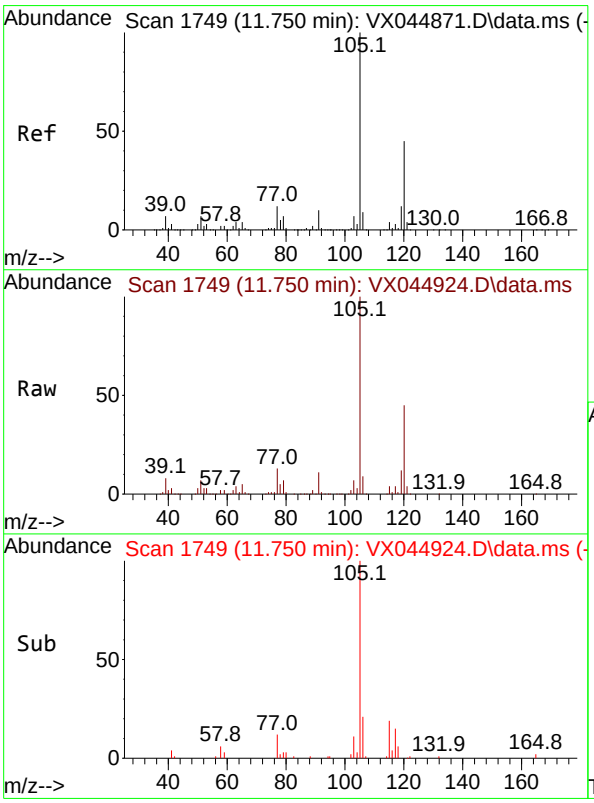
#83
tert-Butylbenzene
Concen: 18.884 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:119 Resp: 99375

Ion	Ratio	Lower	Upper
119	100		
91	59.7	29.1	87.4
134	23.3	11.5	34.5

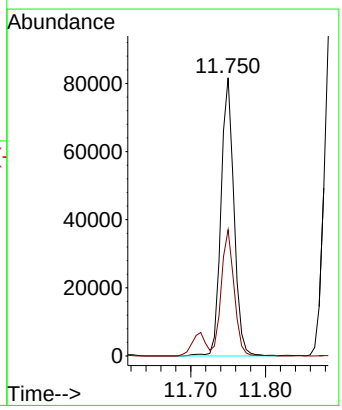


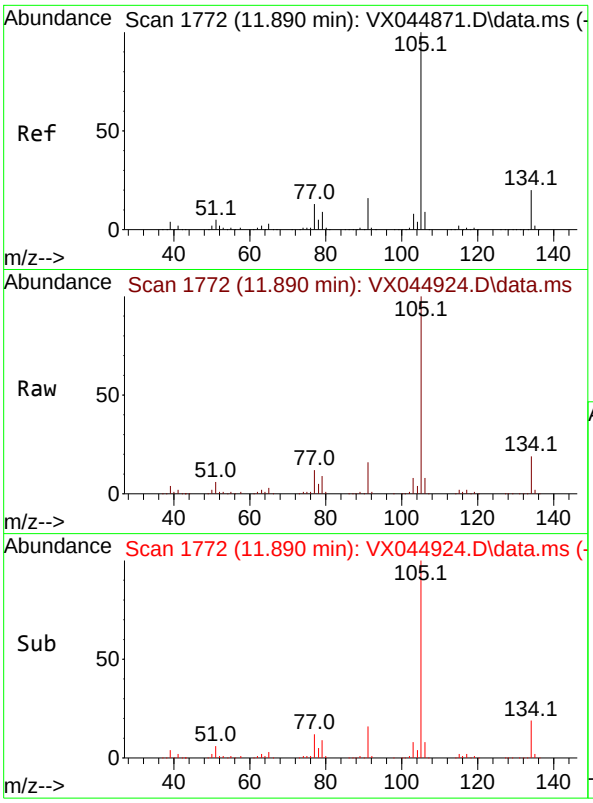


#84
1,2,4-Trimethylbenzene
Concen: 19.251 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:105 Resp: 98836

Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.4	67.0



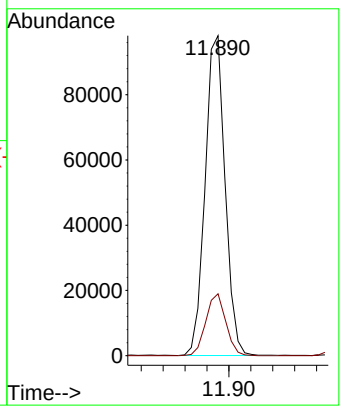


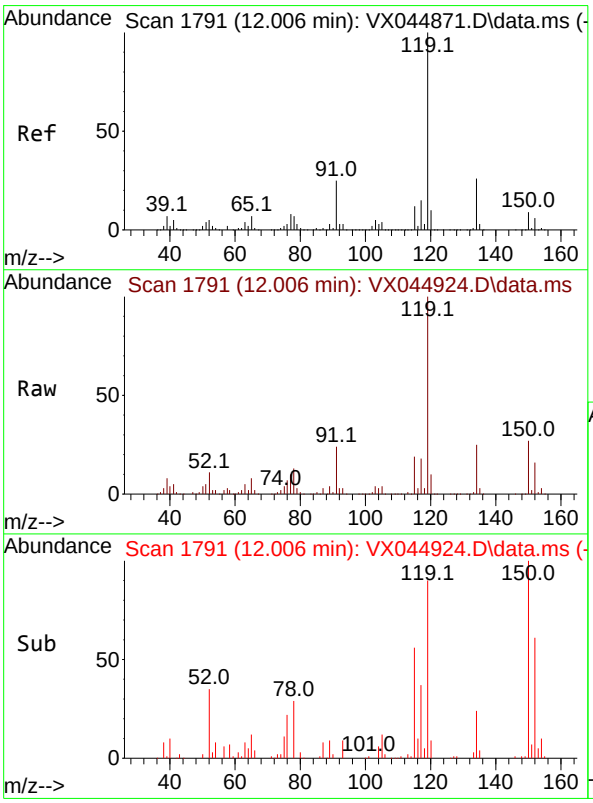
#85
sec-Butylbenzene
Concen: 18.980 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:105 Resp: 123683

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.3

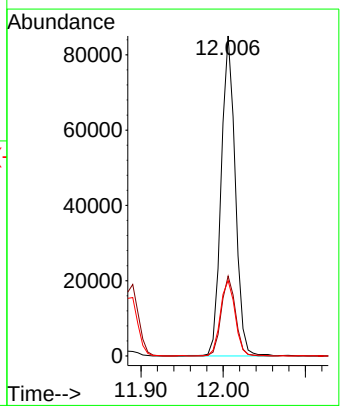


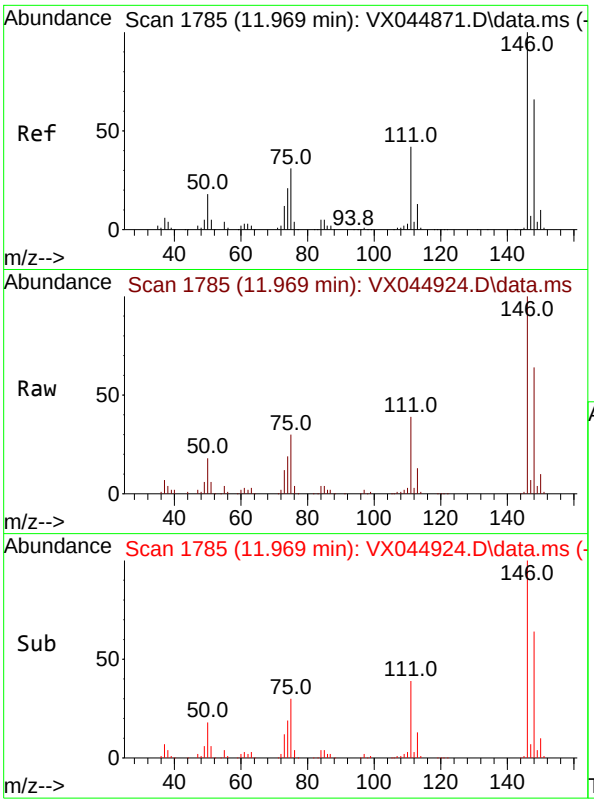


#86
p-Isopropyltoluene
Concen: 19.325 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:119 Resp: 101272

Ion	Ratio	Lower	Upper
119	100		
134	25.0	13.0	38.9
91	24.8	12.1	36.3



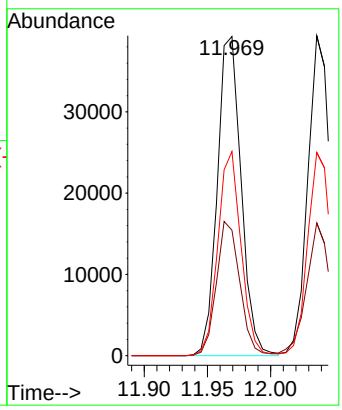


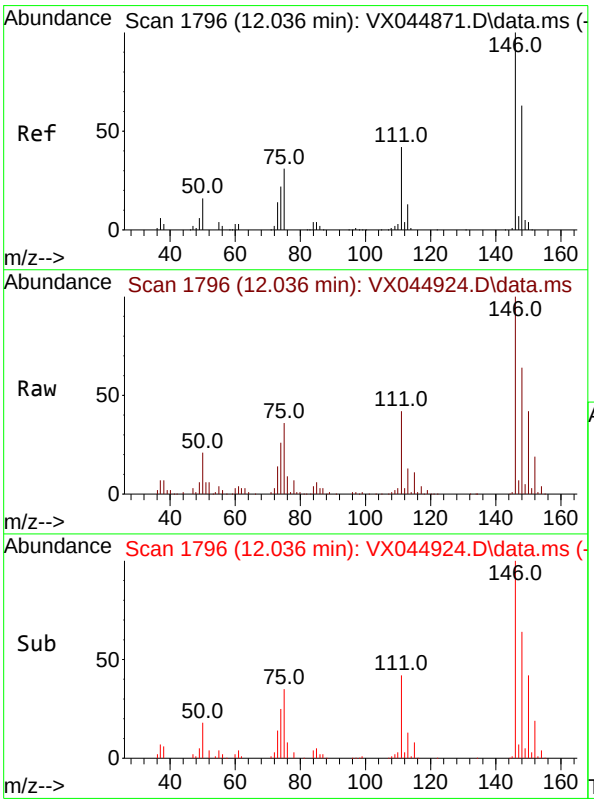
#87
1,3-Dichlorobenzene
Concen: 19.265 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:146 Resp: 51486

Ion	Ratio	Lower	Upper
146	100		
111	41.3	21.2	63.6
148	62.3	32.5	97.5

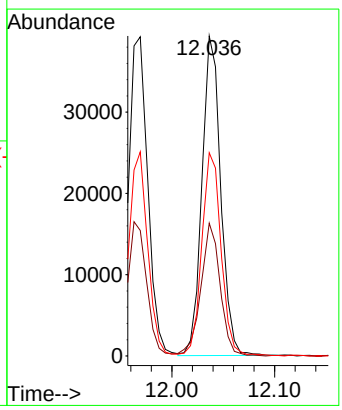


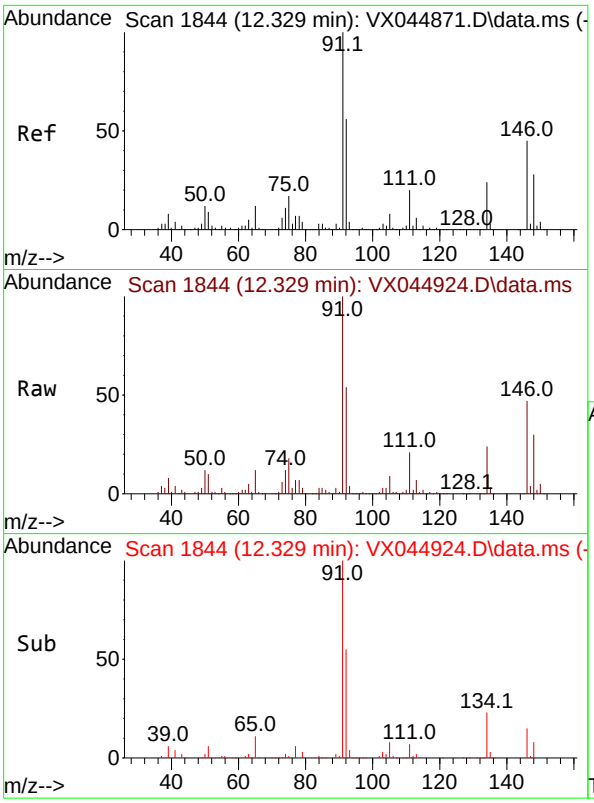


#88
1,4-Dichlorobenzene
Concen: 18.476 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:146 Resp: 49926

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.4	61.3
148	65.6	32.0	96.0



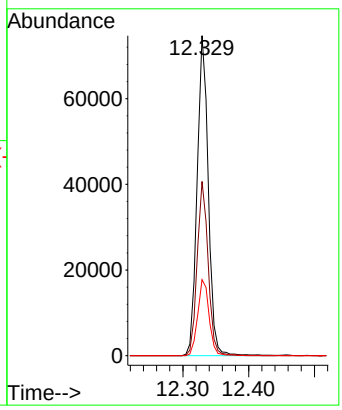


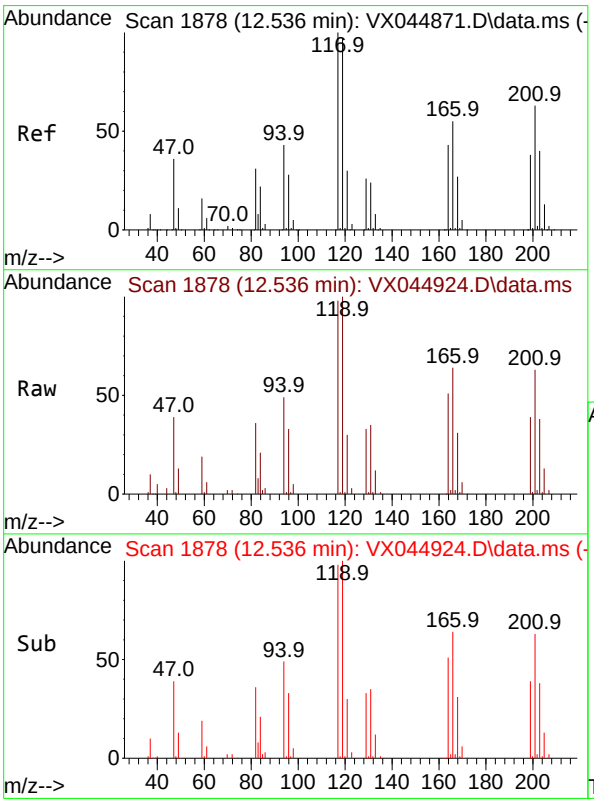
#89
n-Butylbenzene
Concen: 19.025 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion: 91 Resp: 88204

Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.2	81.6
134	24.4	12.1	36.3

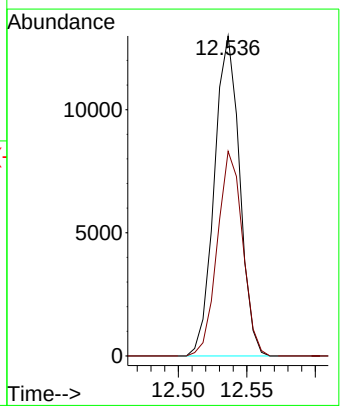


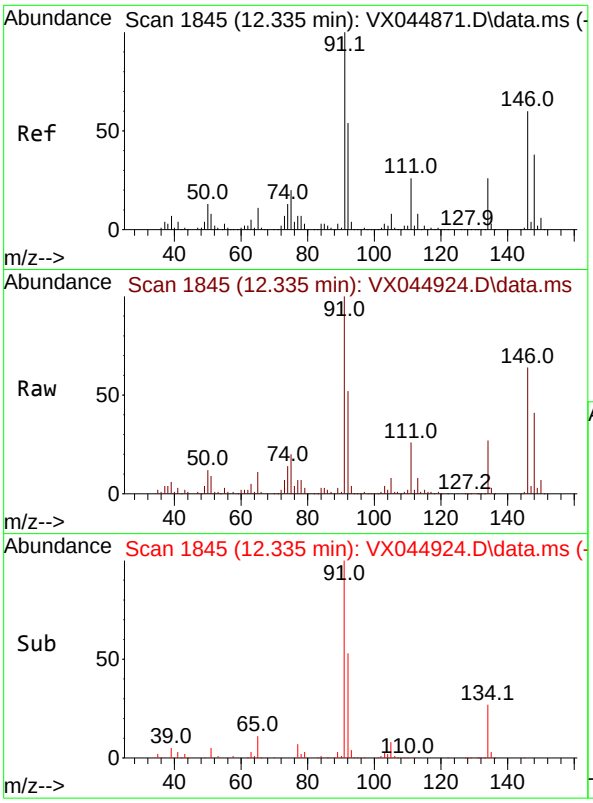


#90
Hexachloroethane
Concen: 16.999 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:117 Resp: 16680

Ion	Ratio	Lower	Upper
117	100		
201	64.0	32.5	97.5



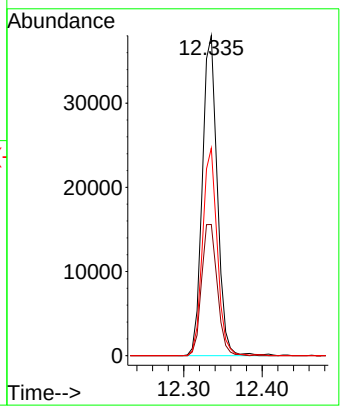


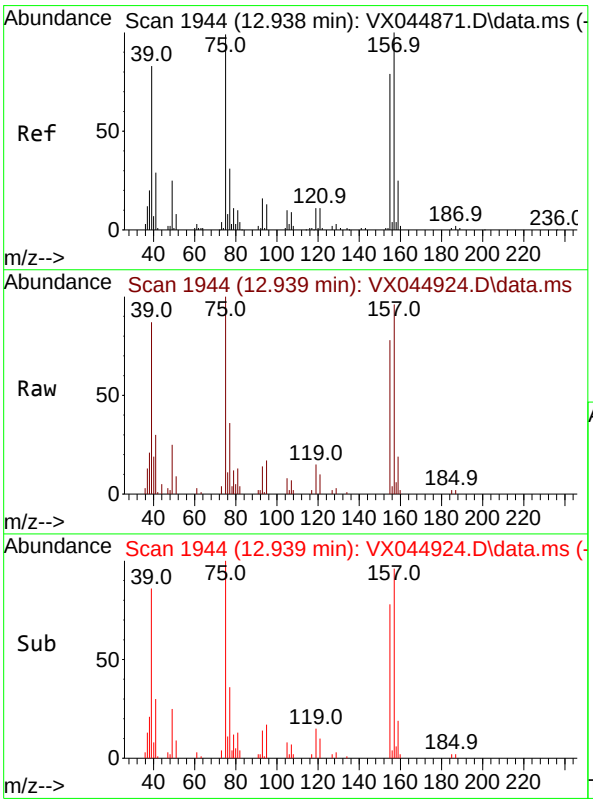
#91
1,2-Dichlorobenzene
Concen: 19.114 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:146 Resp: 50206

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.8	65.4
148	63.7	31.9	95.9

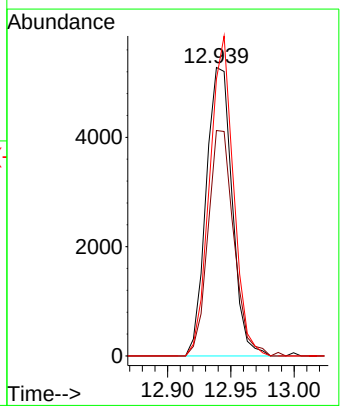


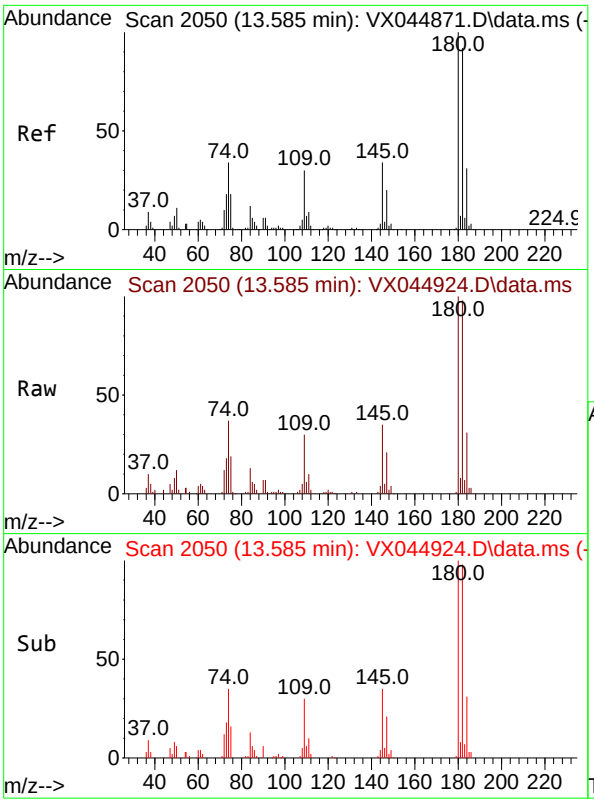


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.713 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion: 75 Resp: 7523

Ion	Ratio	Lower	Upper
75	100		
155	78.1	40.5	121.4
157	101.7	51.4	154.3



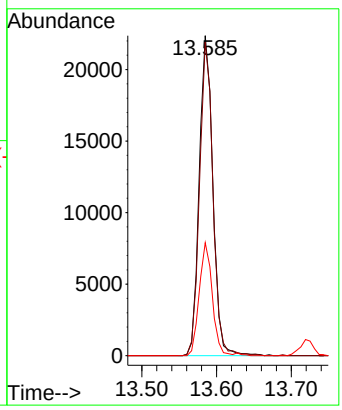


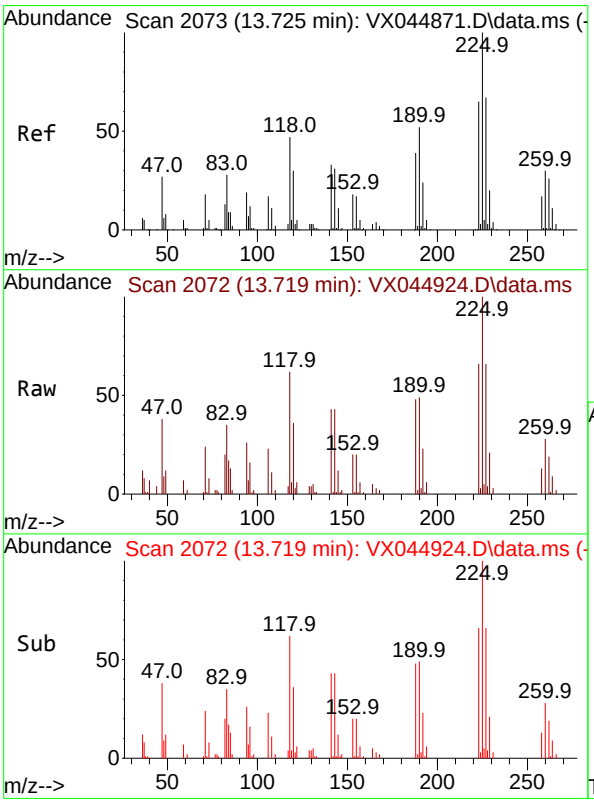
#93
1,2,4-Trichlorobenzene
Concen: 17.801 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:180 Resp: 28292

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.6	142.8
145	33.8	16.4	49.1

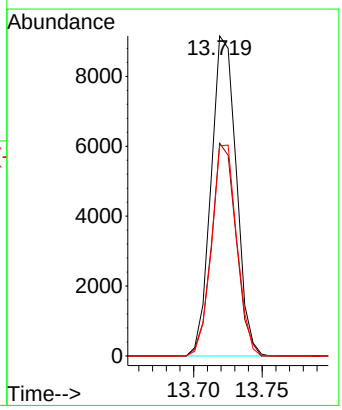


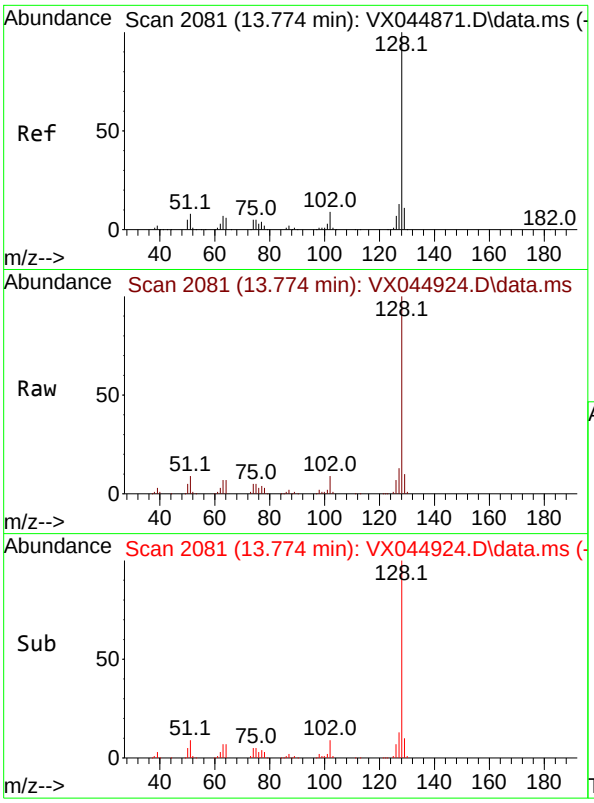


#94
Hexachlorobutadiene
Concen: 18.521 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:225 Resp: 11686

Ion	Ratio	Lower	Upper
225	100		
223	65.2	31.4	94.2
227	65.7	32.3	96.8



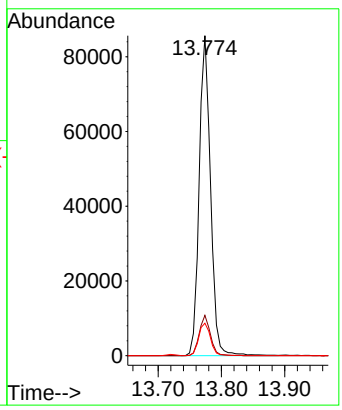


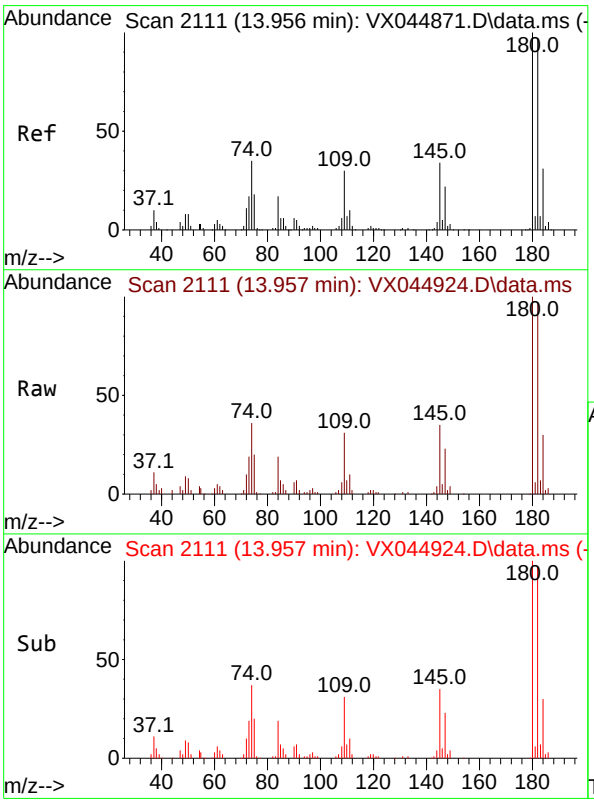
#95
Naphthalene
Concen: 18.642 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Instrument :
MSVOA_X
ClientSampleId :
VX0212WBSD01

Tgt Ion:128 Resp: 107107

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.6	8.9	13.3

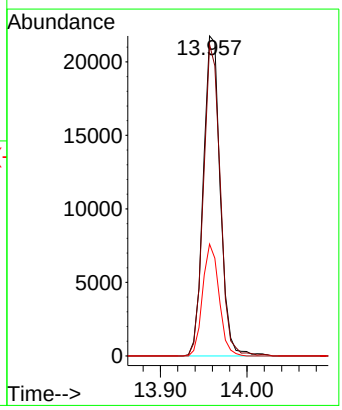




#96
1,2,3-Trichlorobenzene
Concen: 18.455 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044924.D
Acq: 12 Feb 2025 11:46

Tgt Ion:180 Resp: 29556

Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.9	143.6
145	33.8	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	108522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	198728	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	178828	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	80774	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	77052	48.504	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.000%			
35) Dibromofluoromethane	5.379	113	60687	46.969	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.940%			
50) Toluene-d8	8.647	98	223161	45.675	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.360%			
62) 4-Bromofluorobenzene	11.079	95	79430	48.224	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	72084	47.359	ug/l	98
3) Chloromethane	1.300	50	87475	47.220	ug/l	98
4) Vinyl Chloride	1.374	62	81080	45.178	ug/l	99
5) Bromomethane	1.593	94	27426	51.069	ug/l	96
6) Chloroethane	1.666	64	44034	68.385	ug/l	98
7) Trichlorofluoromethane	1.874	101	109884	48.416	ug/l	99
8) Diethyl Ether	2.130	74	39489	47.977	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	63924	46.617	ug/l	99
10) Methyl Iodide	2.447	142	87583	49.282	ug/l	97
11) Tert butyl alcohol	2.977	59	68514	232.483	ug/l	99
12) 1,1-Dichloroethene	2.312	96	65314	46.694	ug/l	97
13) Acrolein	2.233	56	78133	256.964	ug/l	100
14) Allyl chloride	2.654	41	118054	46.700	ug/l	97
15) Acrylonitrile	3.062	53	202302	257.102	ug/l	99
16) Acetone	2.380	43	164755	257.987	ug/l	97
17) Carbon Disulfide	2.501	76	164956	43.006	ug/l	99
18) Methyl Acetate	2.703	43	106621	52.907	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	214786	48.262	ug/l	100
20) Methylene Chloride	2.782	84	74373	47.546	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	65906	47.873	ug/l	93
22) Diisopropyl ether	3.757	45	238141	49.794	ug/l	99
23) Vinyl Acetate	3.715	43	961245	246.538	ug/l	99
24) 1,1-Dichloroethane	3.605	63	129256	48.302	ug/l	98
25) 2-Butanone	4.556	43	271094	261.422	ug/l	97
26) 2,2-Dichloropropane	4.471	77	88768	41.829	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	80240	48.523	ug/l	98
28) Bromochloromethane	4.891	49	58978	45.861	ug/l	99
29) Tetrahydrofuran	5.001	42	179030	259.995	ug/l	99
30) Chloroform	5.086	83	127059	48.960	ug/l	100
31) Cyclohexane	5.458	56	113766	46.115	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	105575	47.962	ug/l	99
36) 1,1-Dichloropropene	5.684	75	87398	46.885	ug/l	100
37) Ethyl Acetate	4.708	43	103482	49.909	ug/l	99
38) Carbon Tetrachloride	5.666	117	86813	47.524	ug/l	98
39) Methylcyclohexane	7.373	83	112061	46.499	ug/l	95
40) Benzene	6.031	78	280015	48.106	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	59722	53.812	ug/l		98
42) 1,2-Dichloroethane	6.080	62	94923	51.167	ug/l		99
43) Isopropyl Acetate	6.336	43	169437	50.605	ug/l		99
44) Trichloroethene	7.117	130	61715	46.385	ug/l		98
45) 1,2-Dichloropropane	7.427	63	70100	48.407	ug/l		97
46) Dibromomethane	7.580	93	49903	49.691	ug/l		98
47) Bromodichloromethane	7.818	83	96846	49.803	ug/l		97
48) Methyl methacrylate	7.690	41	82133	52.025	ug/l		99
49) 1,4-Dioxane	7.659	88	32859	970.105	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	548124	269.277	ug/l		99
52) Toluene	8.714	92	169085	48.775	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	92960	47.240	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	105250	47.971	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	66760	50.097	ug/l		98
56) Ethyl methacrylate	9.116	69	110282	51.239	ug/l		98
57) 1,3-Dichloropropane	9.305	76	114977	49.311	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	274468	259.716	ug/l		100
59) 2-Hexanone	9.427	43	407121	277.591	ug/l		97
60) Dibromochloromethane	9.519	129	70163	49.231	ug/l		99
61) 1,2-Dibromoethane	9.604	107	67019	49.619	ug/l		99
64) Tetrachloroethene	9.269	164	52500	46.552	ug/l		95
65) Chlorobenzene	10.073	112	182243	47.447	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	58380	47.222	ug/l		99
67) Ethyl Benzene	10.189	91	321600	47.447	ug/l		99
68) m/p-Xylenes	10.299	106	239927	95.958	ug/l		99
69) o-Xylene	10.640	106	119184	47.505	ug/l		100
70) Styrene	10.652	104	200646	49.640	ug/l		98
71) Bromoform	10.799	173	44310	48.025	ug/l	#	100
73) Isopropylbenzene	10.957	105	307260	47.243	ug/l		99
74) N-amyl acetate	10.841	43	146530	49.788	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	104911	46.942	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	110562	61.736	ug/l		83
77) Bromobenzene	11.195	156	69858	47.377	ug/l		99
78) n-propylbenzene	11.299	91	359442	47.881	ug/l		100
79) 2-Chlorotoluene	11.360	91	213977	46.378	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	252288	47.801	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	29523	42.406	ug/l		91
82) 4-Chlorotoluene	11.451	91	244793	47.958	ug/l		99
83) tert-Butylbenzene	11.713	119	253035	47.391	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	256030	49.150	ug/l		99
85) sec-Butylbenzene	11.890	105	320813	48.523	ug/l		99
86) p-Isopropyltoluene	12.006	119	258941	48.701	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	126325	46.587	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	126465	46.128	ug/l		100
89) n-Butylbenzene	12.329	91	231584	49.233	ug/l		100
90) Hexachloroethane	12.536	117	45316	45.518	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	126735	47.556	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20041	49.133	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	75475	46.804	ug/l		100
94) Hexachlorobutadiene	13.719	225	28958	45.235	ug/l		99
95) Naphthalene	13.774	128	284275	48.767	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	76278	46.943	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

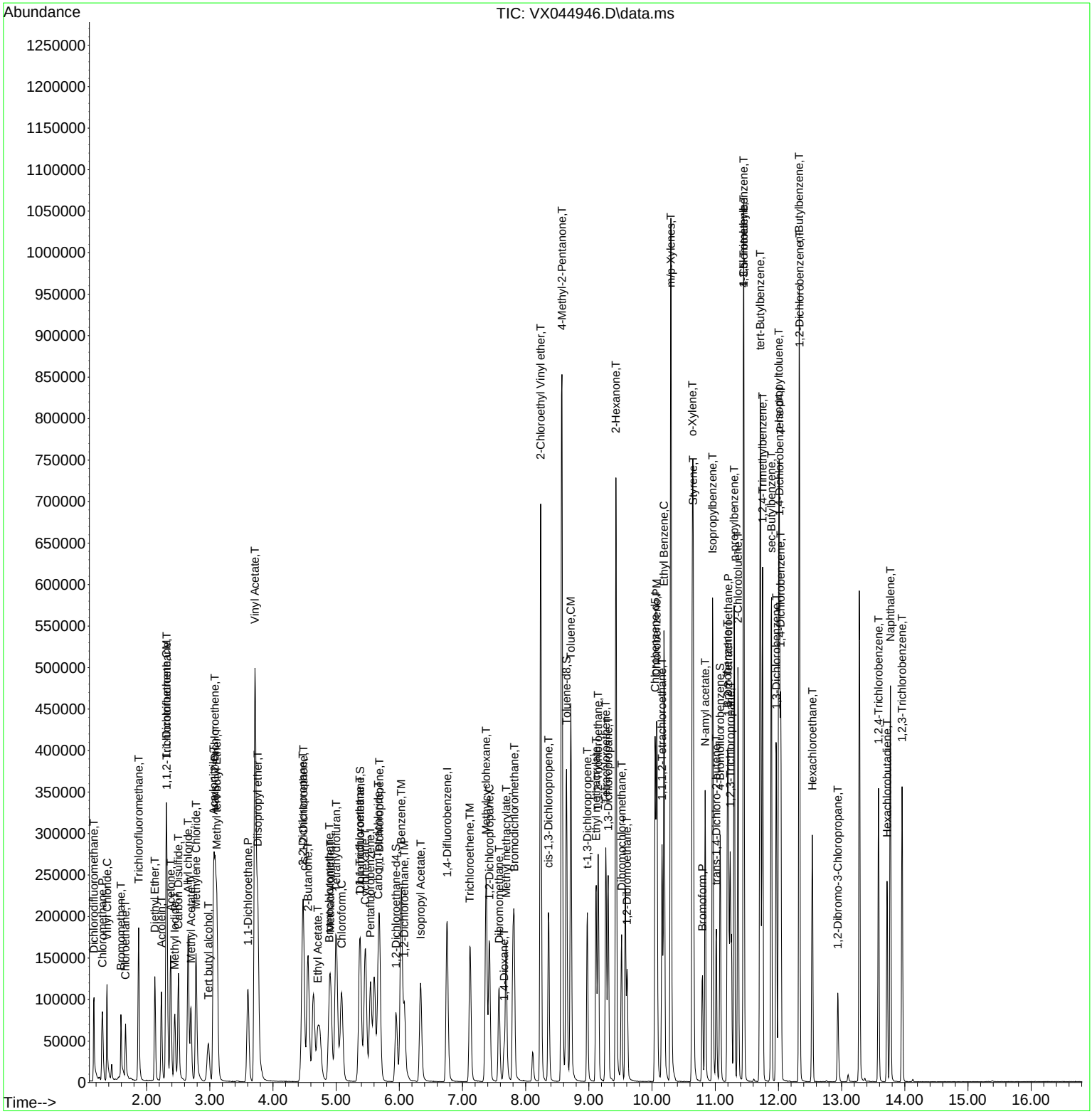
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

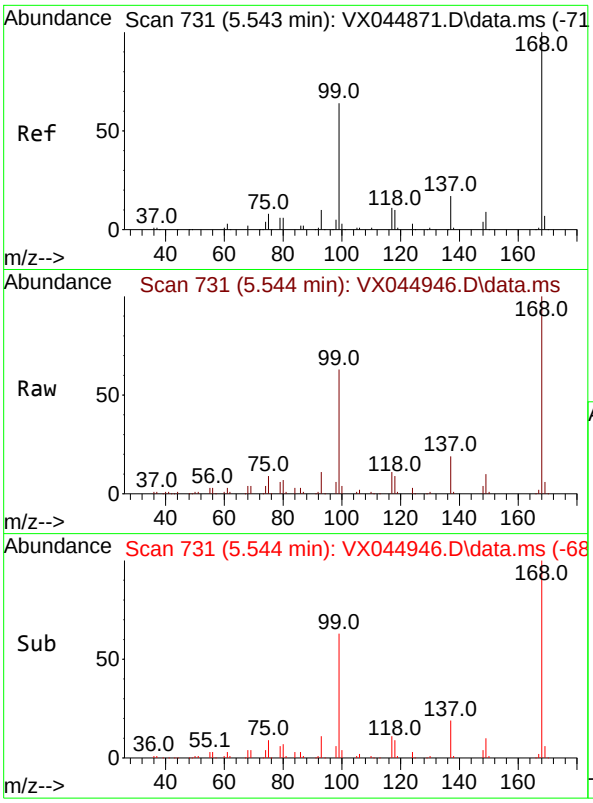
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021225\
Data File : VX044946.D
Acq On : 12 Feb 2025 20:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 13 00:55:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



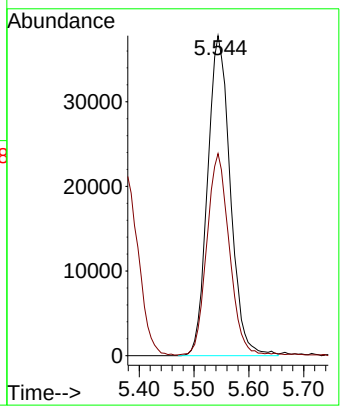


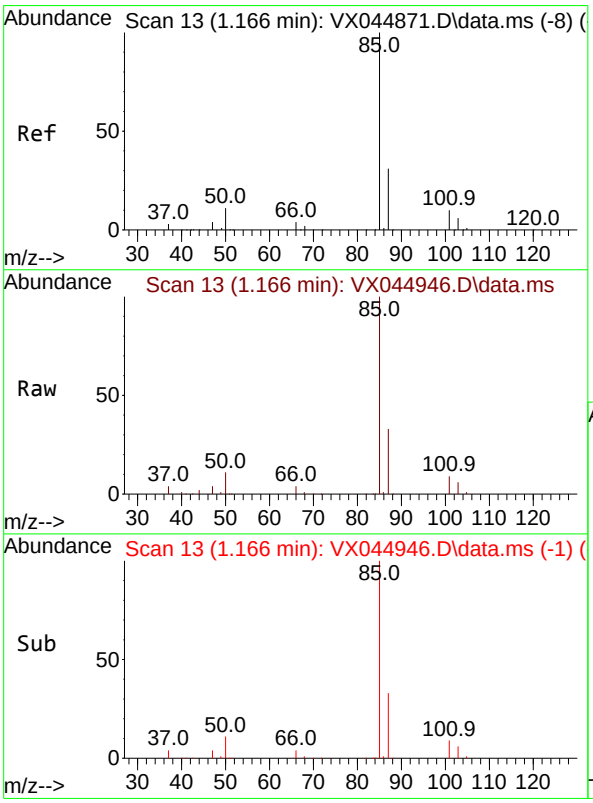
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 108522

Ion	Ratio	Lower	Upper
168	100		
99	62.9	51.2	76.8

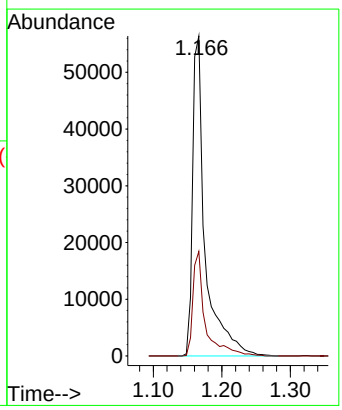


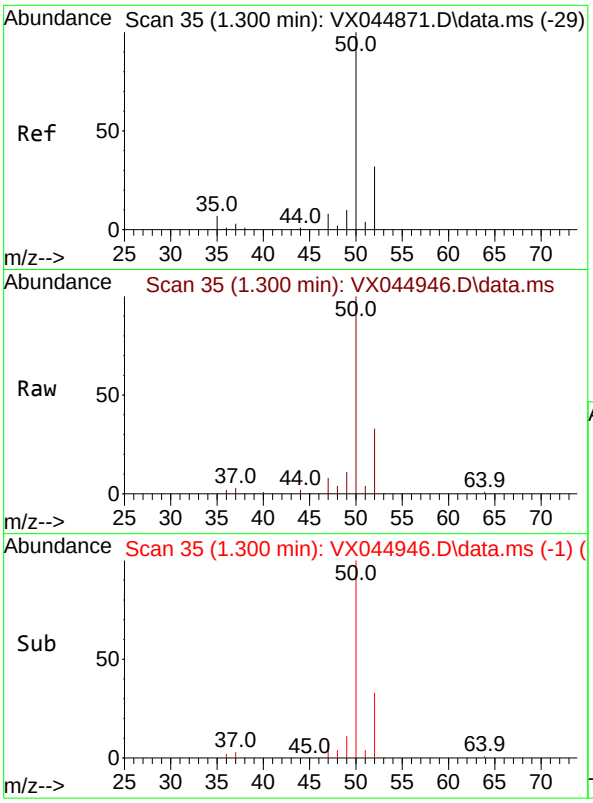


#2
Dichlorodifluoromethane
Concen: 47.359 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 85 Resp: 72084

Ion	Ratio	Lower	Upper
85	100		
87	32.7	15.8	47.3



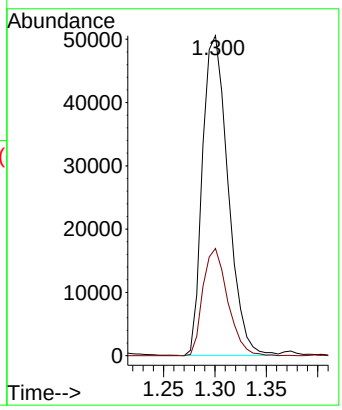


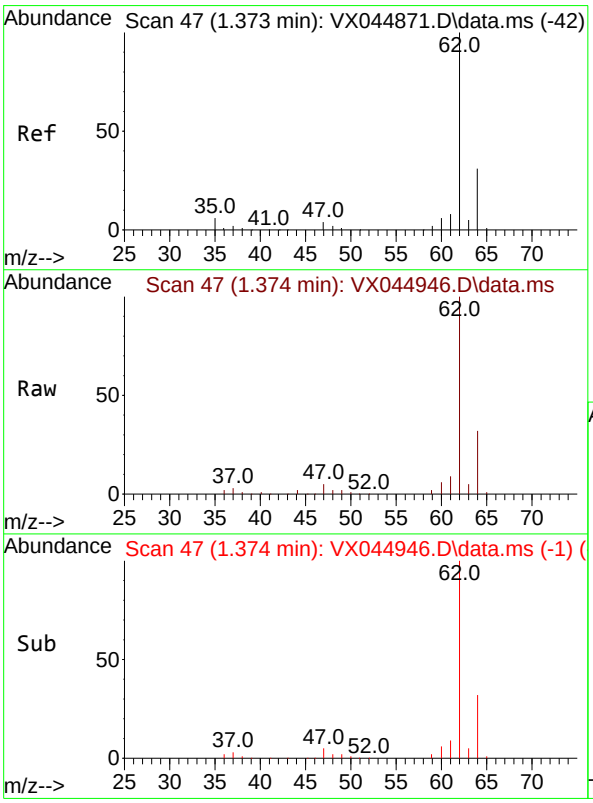
#3
Chloromethane
Concen: 47.220 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 87475

Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.9	38.9

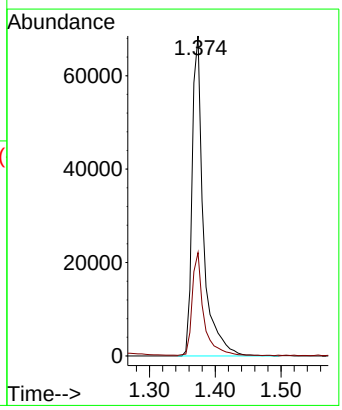


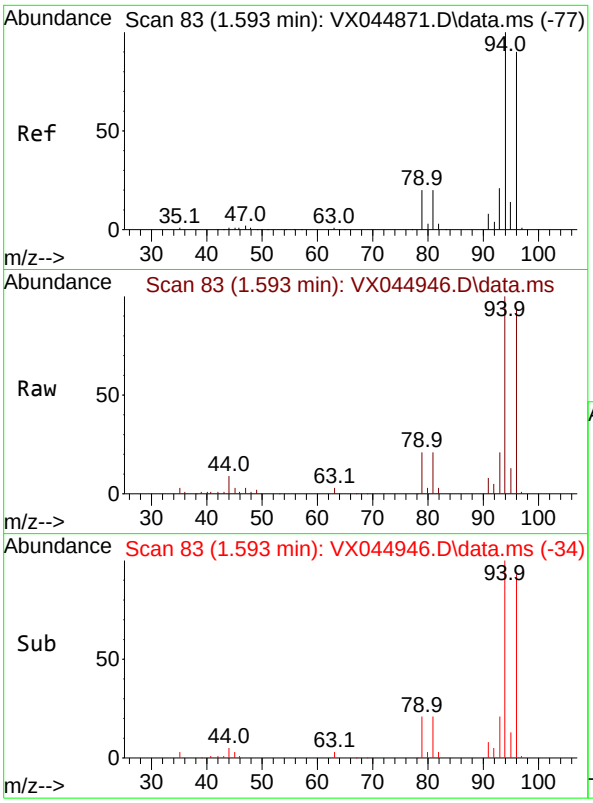


#4
Vinyl Chloride
Concen: 45.178 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 62 Resp: 81080

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0



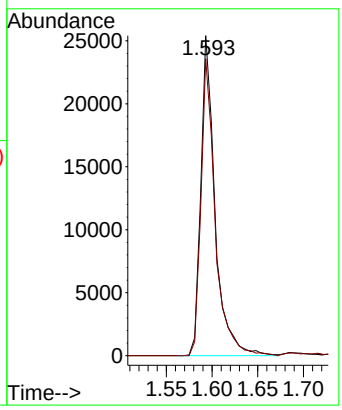


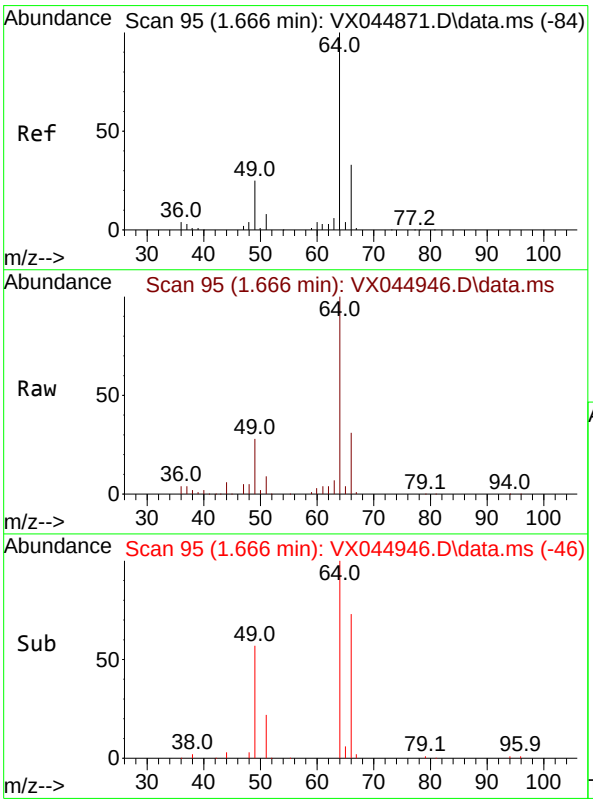
#5
Bromomethane
Concen: 51.069 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 27426

Ion	Ratio	Lower	Upper
94	100		
96	92.8	71.6	107.4

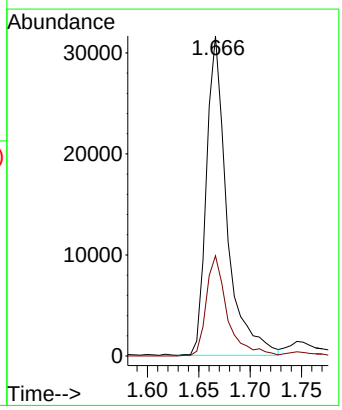


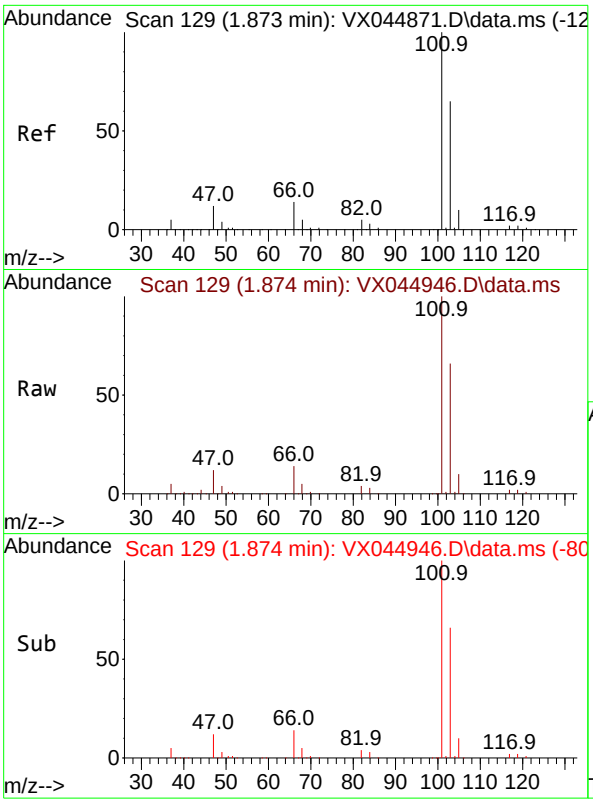


#6
Chloroethane
Concen: 68.385 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 64 Resp: 44034

Ion	Ratio	Lower	Upper
64	100		
66	31.3	25.9	38.9



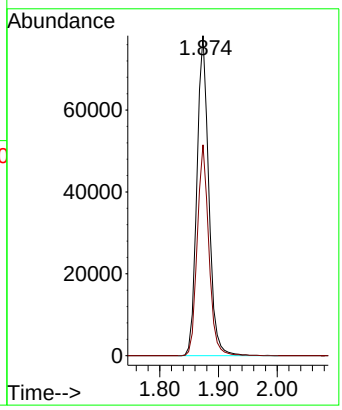


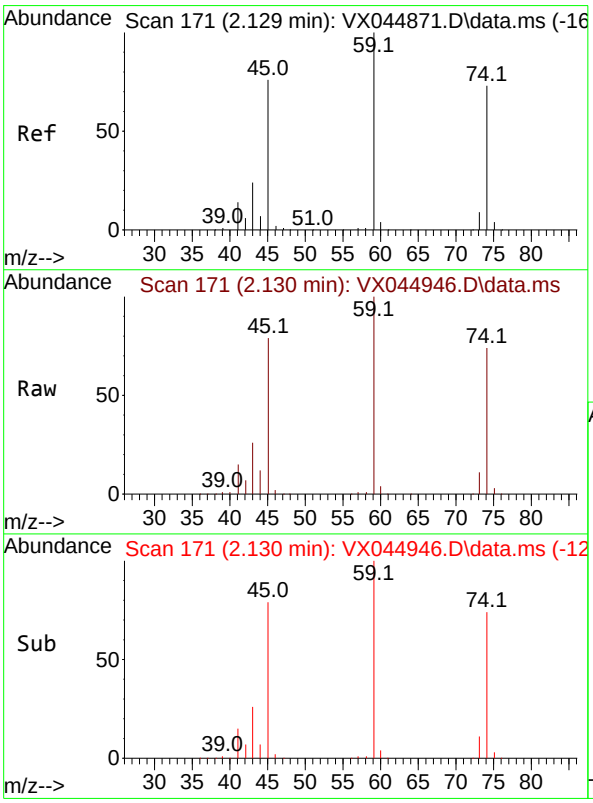
#7
Trichlorofluoromethane
Concen: 48.416 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 109884

Ion	Ratio	Lower	Upper
101	100		
103	65.9	52.4	78.6

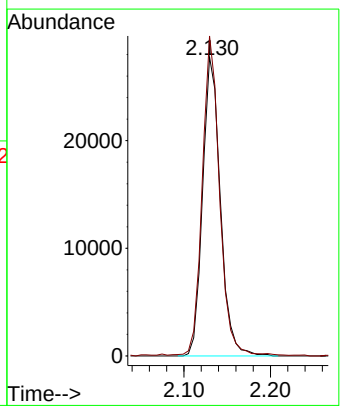


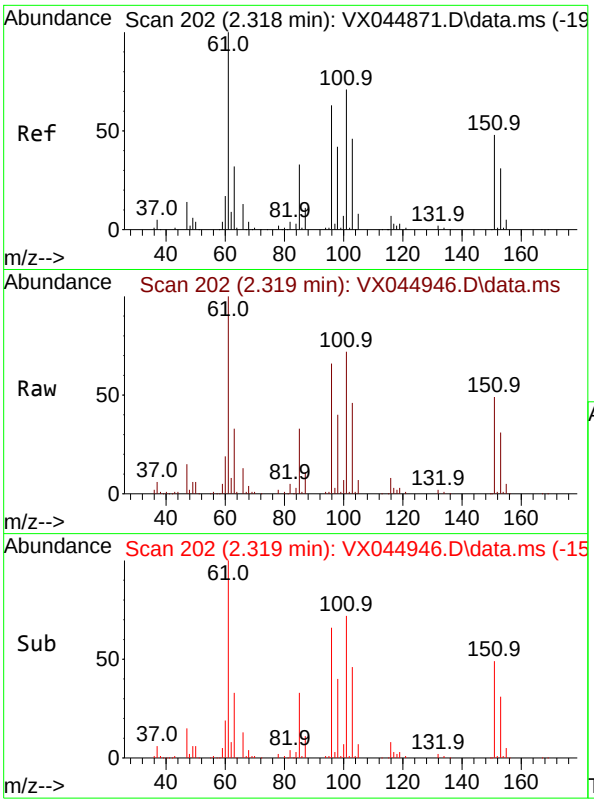


#8
Diethyl Ether
Concen: 47.977 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 74 Resp: 39489

Ion	Ratio	Lower	Upper
74	100		
45	103.7	51.1	153.4



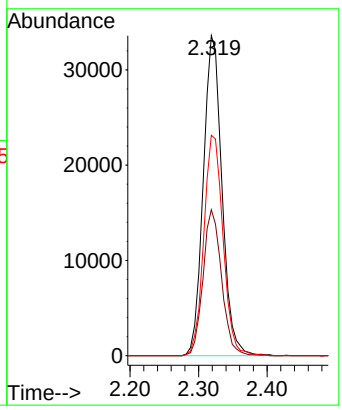


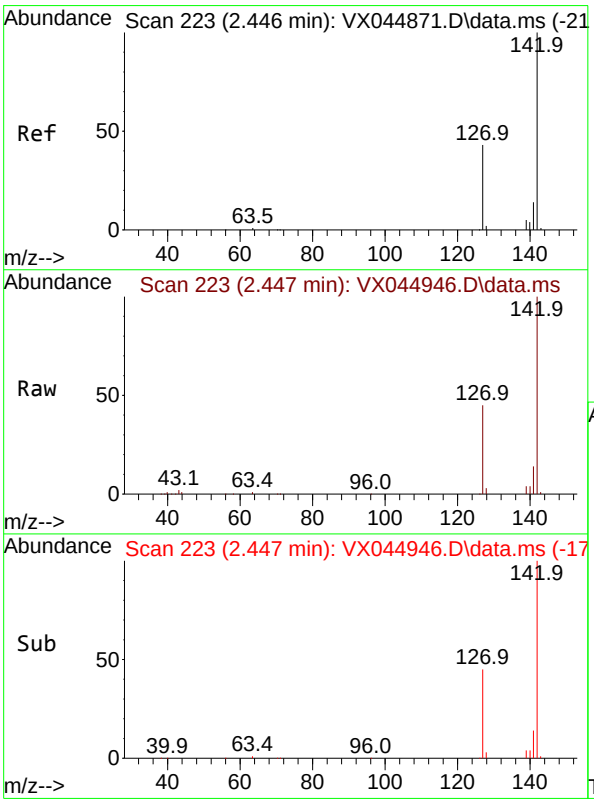
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.617 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 63924

Ion	Ratio	Lower	Upper
101	100		
85	45.2	35.7	53.5
151	70.7	56.0	84.0

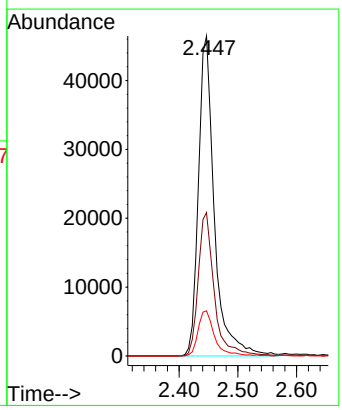


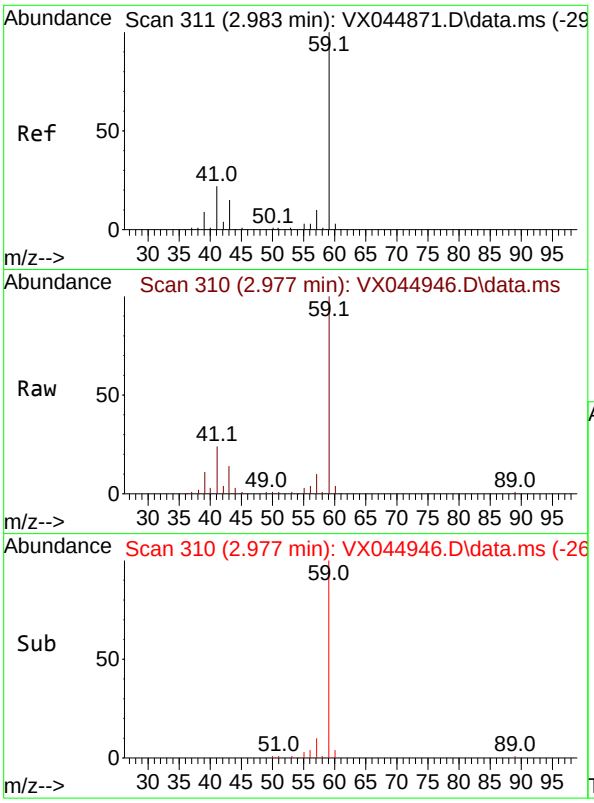


#10
Methyl Iodide
Concen: 49.282 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:142 Resp: 87583

Ion	Ratio	Lower	Upper
142	100		
127	45.0	34.3	51.5
141	14.7	11.4	17.2



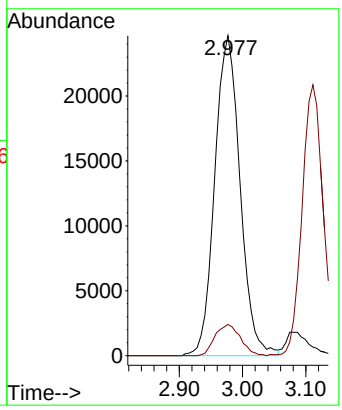


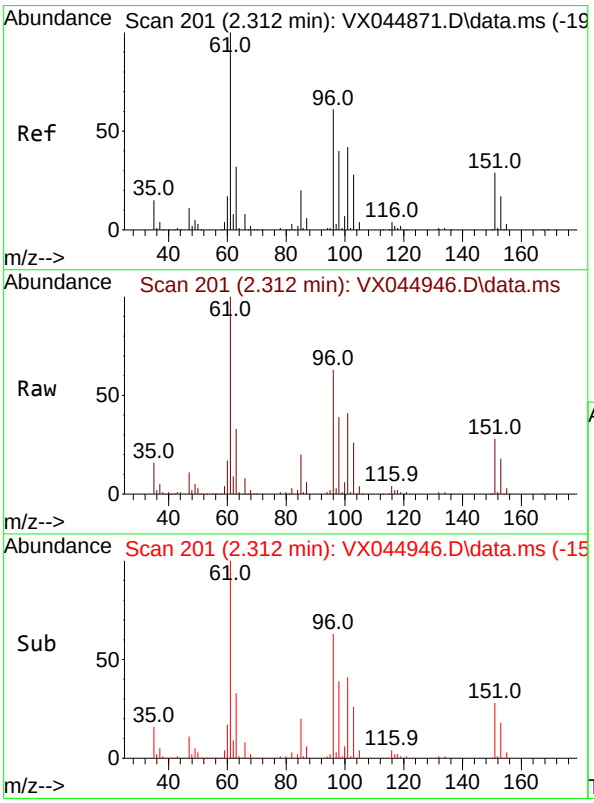
#11
Tert butyl alcohol
Concen: 232.483 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 68514

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1

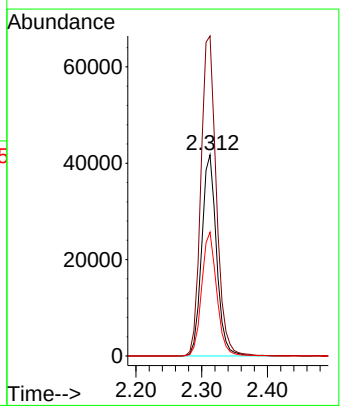


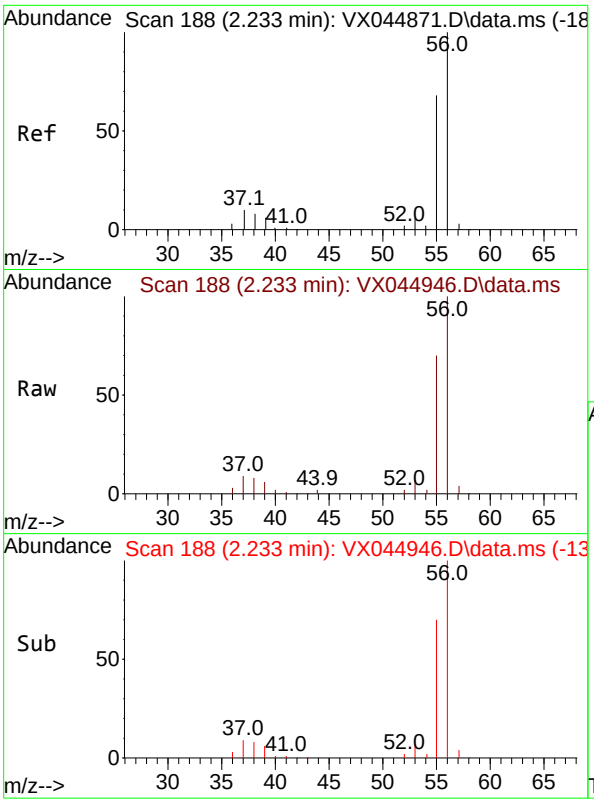


#12
1,1-Dichloroethene
Concen: 46.694 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 96 Resp: 65314

Ion	Ratio	Lower	Upper
96	100		
61	159.2	130.2	195.4
98	61.6	52.2	78.4



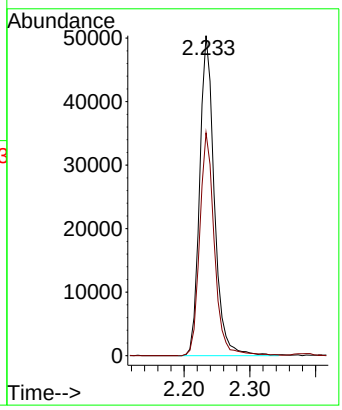


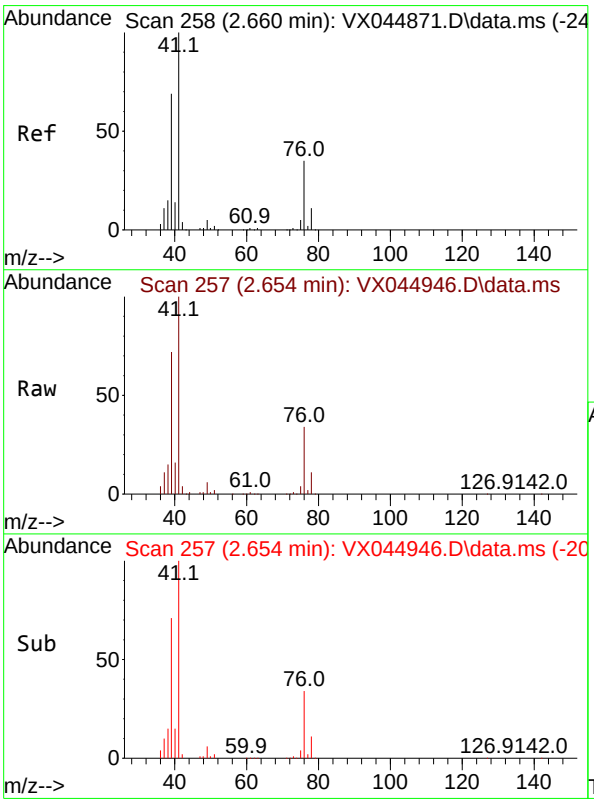
#13
Acrolein
Concen: 256.964 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 78133

Ion	Ratio	Lower	Upper
56	100		
55	69.9	55.7	83.5

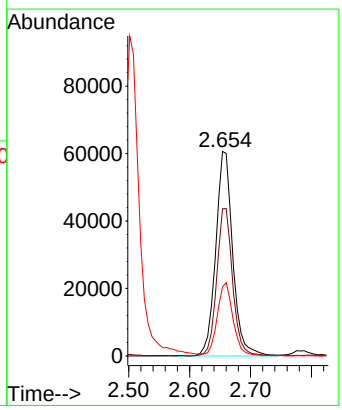


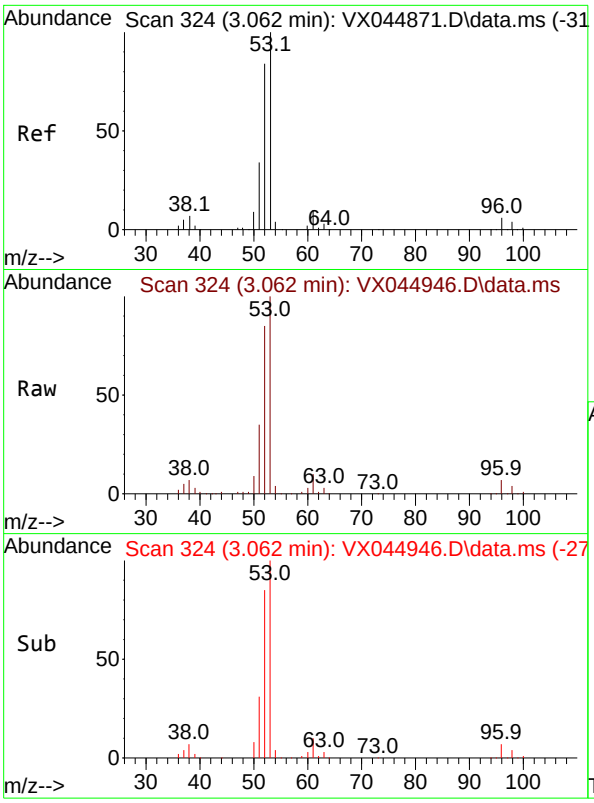


#14
Allyl chloride
Concen: 46.700 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 41 Resp: 118054

Ion	Ratio	Lower	Upper
41	100		
39	67.4	51.4	77.2
76	33.1	27.0	40.4



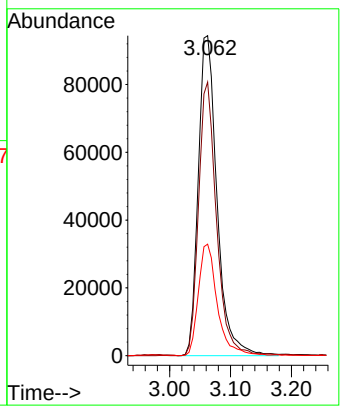


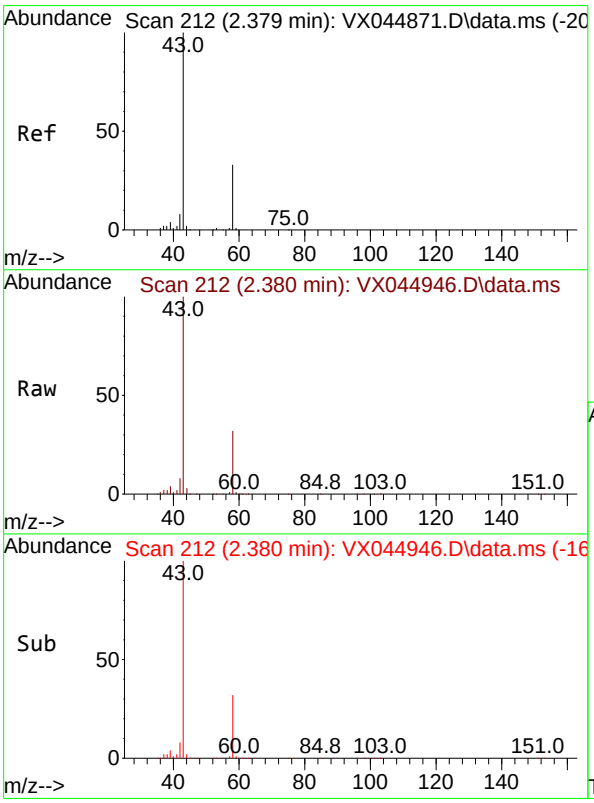
#15
Acrylonitrile
Concen: 257.102 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 202302

Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.0	97.6
51	35.3	28.0	42.0

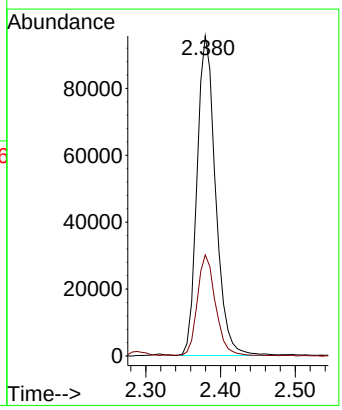


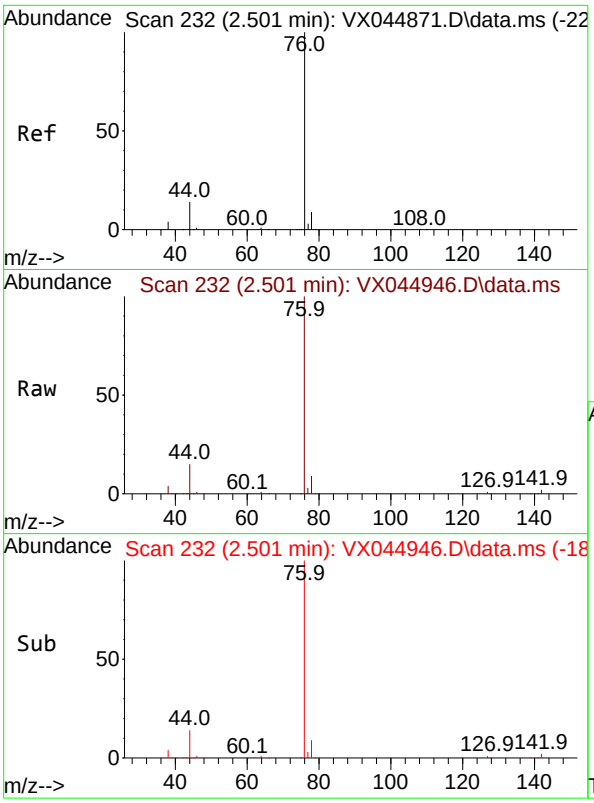


#16
Acetone
Concen: 257.987 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 164755

Ion	Ratio	Lower	Upper
43	100		
58	31.6	26.5	39.7



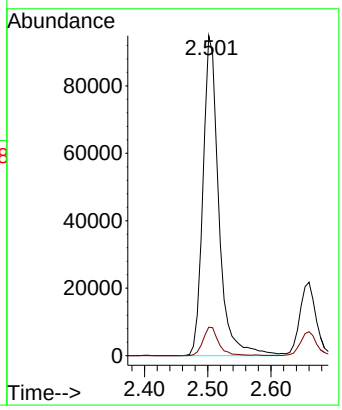


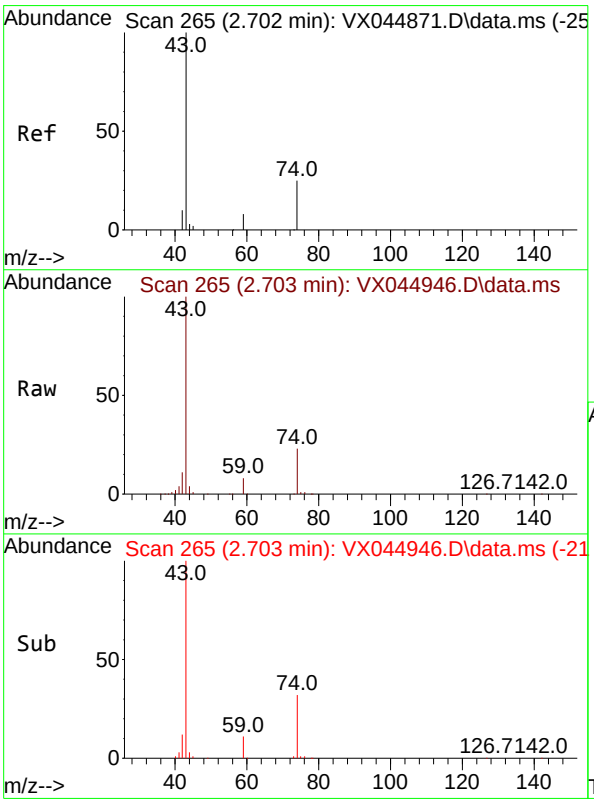
#17
Carbon Disulfide
Concen: 43.006 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 164956

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4

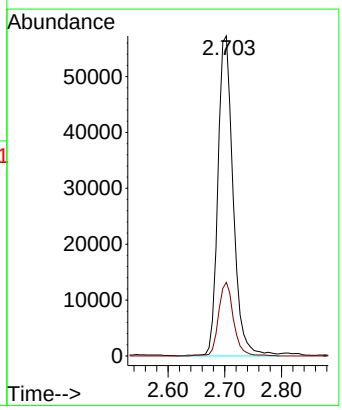


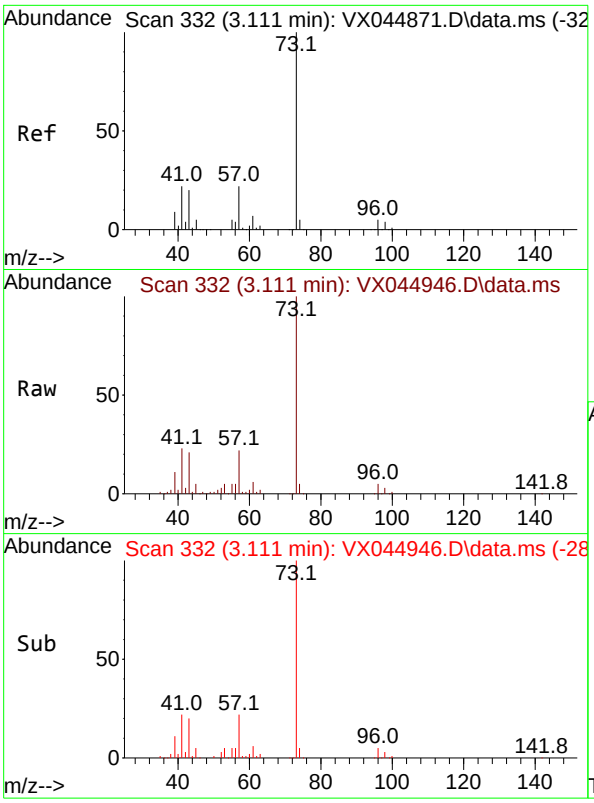


#18
Methyl Acetate
Concen: 52.907 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 106621

Ion	Ratio	Lower	Upper
43	100		
74	22.7	18.9	28.3



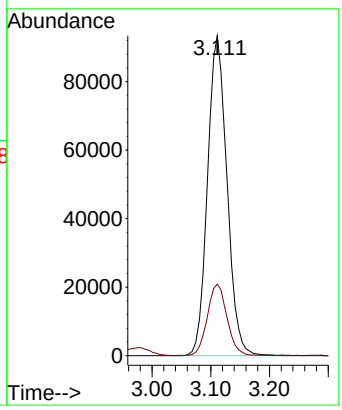


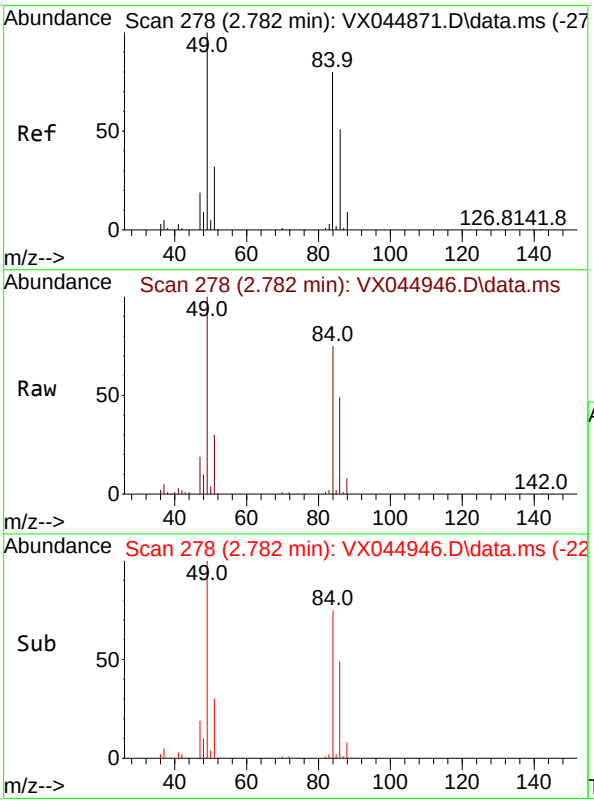
#19
Methyl tert-butyl Ether
Concen: 48.262 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 214786

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9

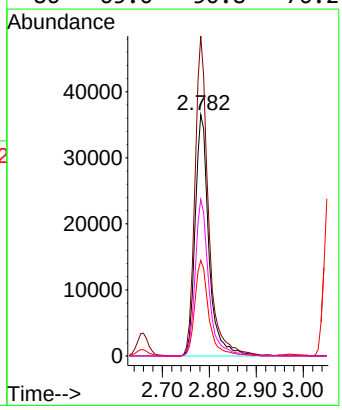


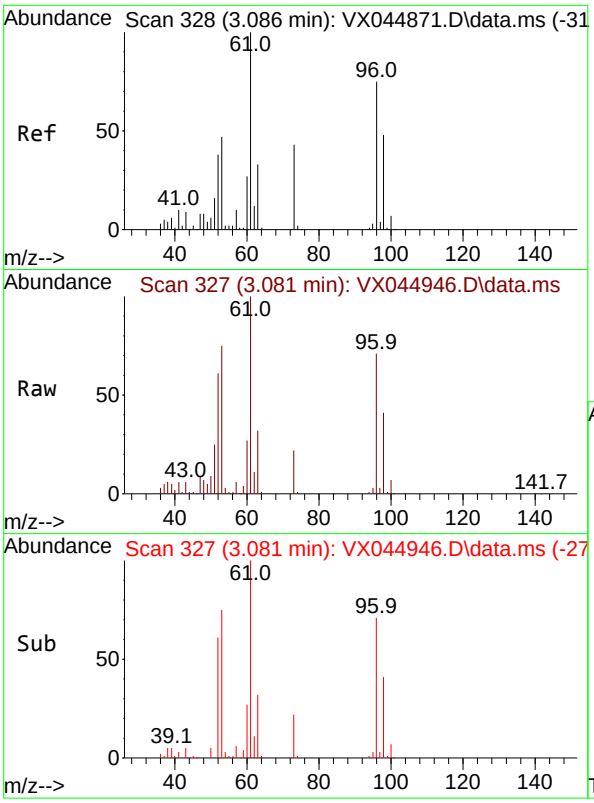


#20
Methylene Chloride
Concen: 47.546 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 84 Resp: 74373

Ion	Ratio	Lower	Upper
84	100		
49	132.7	100.1	150.1
51	39.6	31.7	47.5
86	65.0	50.8	76.2



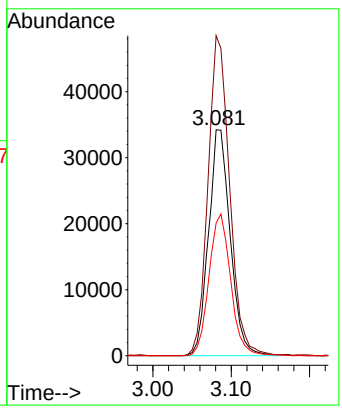


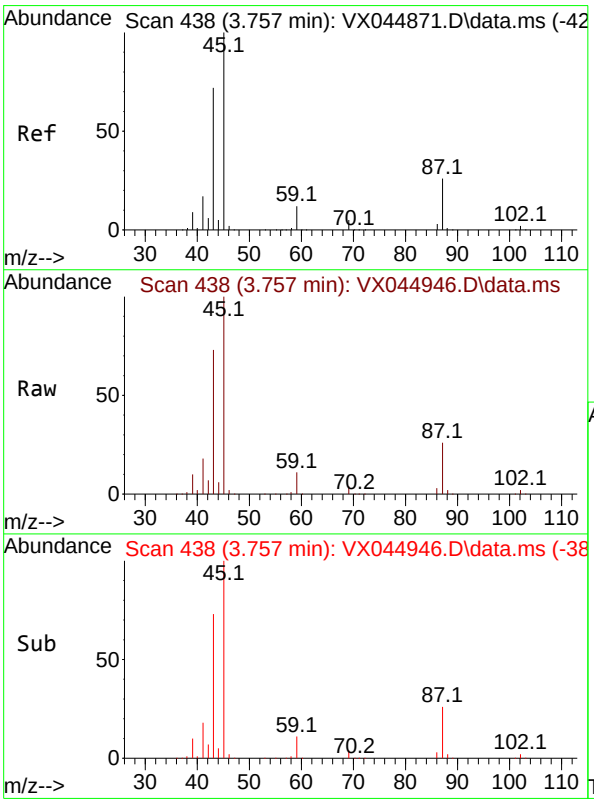
#21
trans-1,2-Dichloroethene
Concen: 47.873 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 65906

Ion	Ratio	Lower	Upper
96	100		
61	141.7	106.0	159.0
98	58.7	50.6	76.0

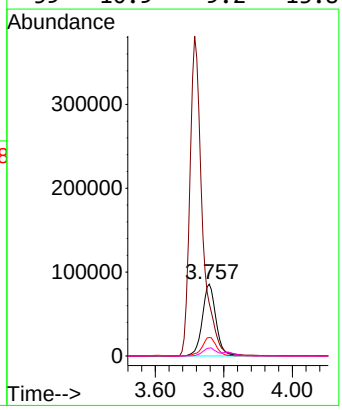


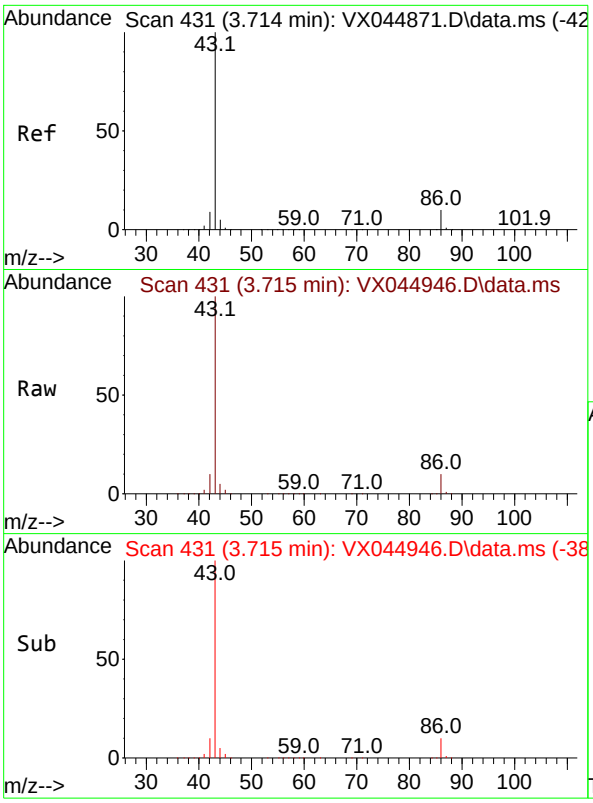


#22
Diisopropyl ether
Concen: 49.794 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 45 Resp: 238141

Ion	Ratio	Lower	Upper
45	100		
43	73.1	58.0	87.0
87	25.6	20.7	31.1
59	10.9	9.2	13.8



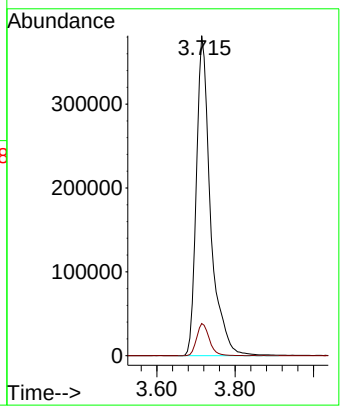


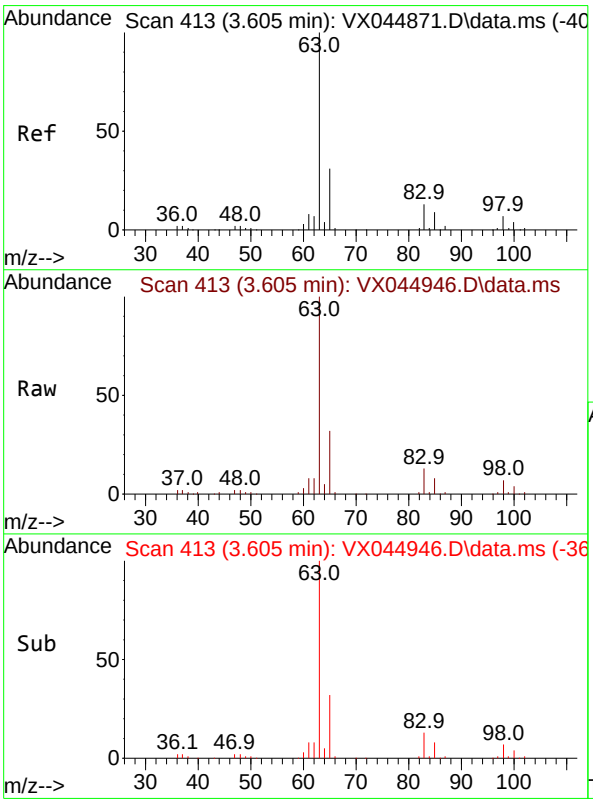
#23
Vinyl Acetate
Concen: 246.538 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 961245

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.3	12.5

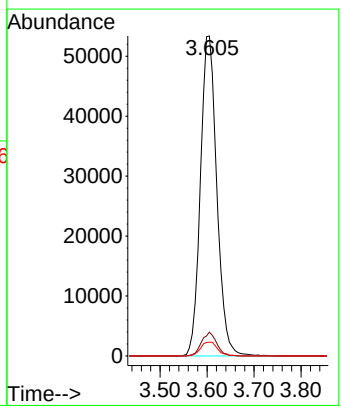


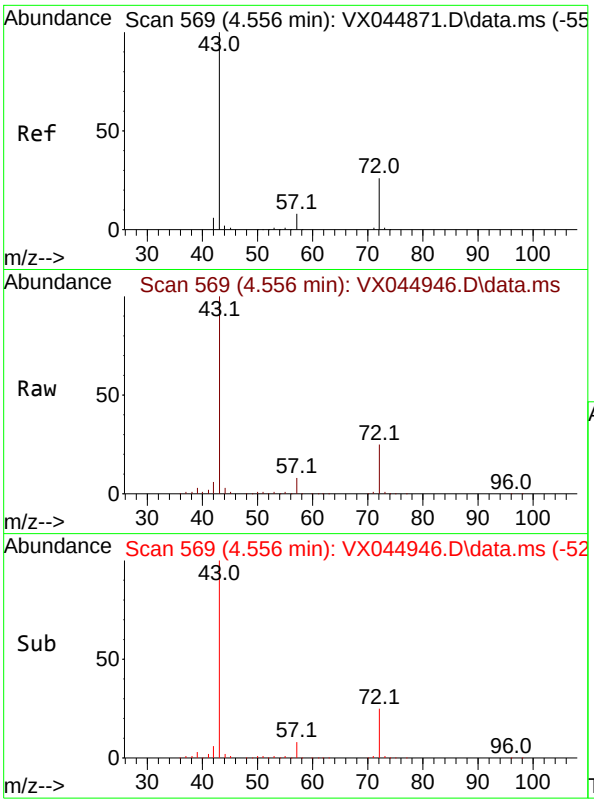


#24
1,1-Dichloroethane
Concen: 48.302 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 63 Resp: 129256

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.3	9.9
100	4.3	2.1	6.5



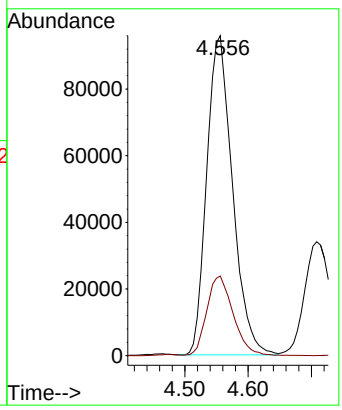


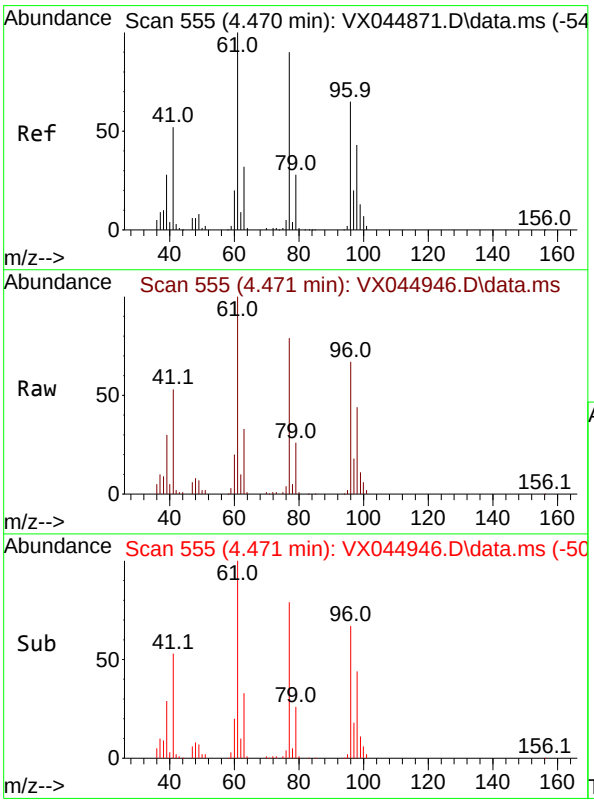
#25
2-Butanone
Concen: 261.422 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 271094

Ion	Ratio	Lower	Upper
43	100		
72	24.7	21.2	31.8

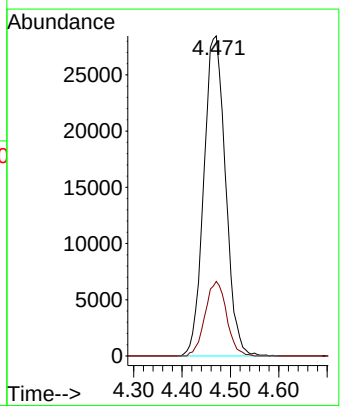


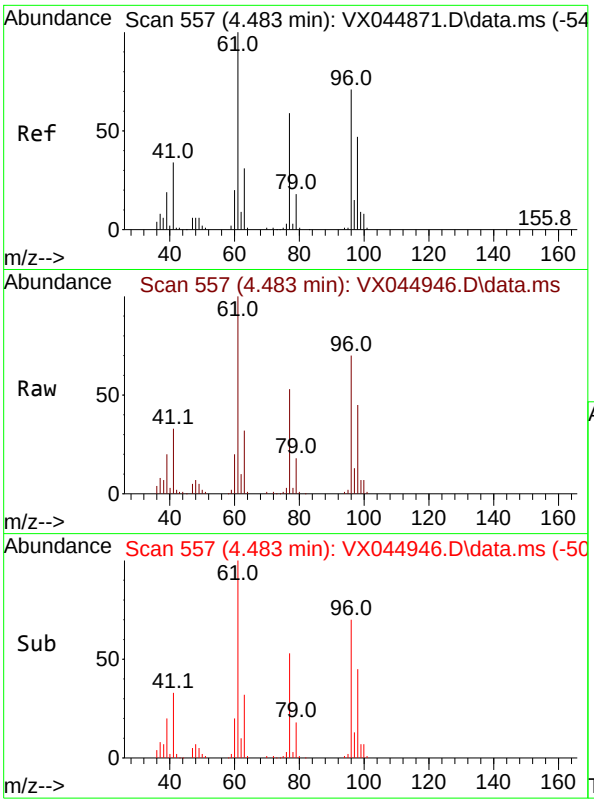


#26
2,2-Dichloropropane
Concen: 41.829 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 77 Resp: 88768

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.8	35.3



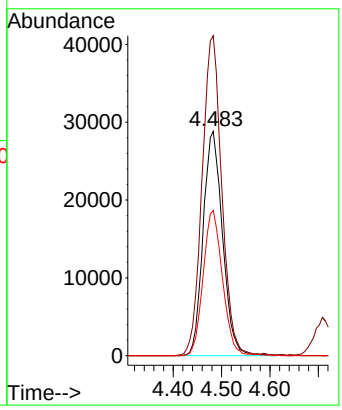


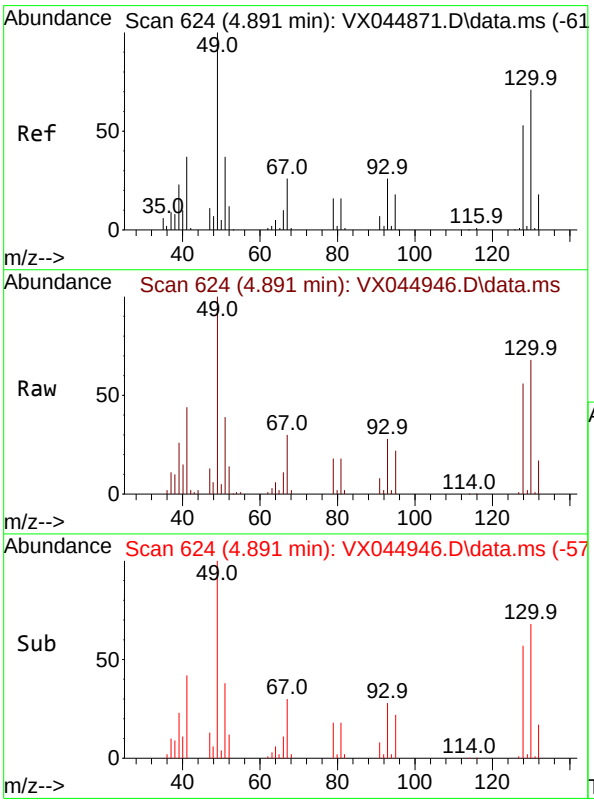
#27
cis-1,2-Dichloroethene
Concen: 48.523 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 80240

Ion	Ratio	Lower	Upper
96	100		
61	144.9	0.0	294.0
98	64.6	0.0	131.2

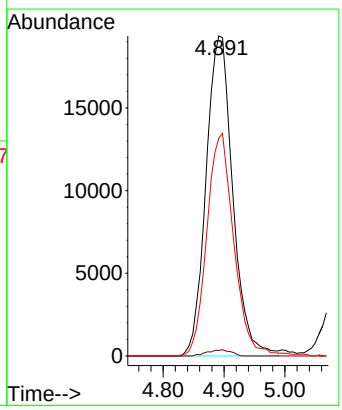


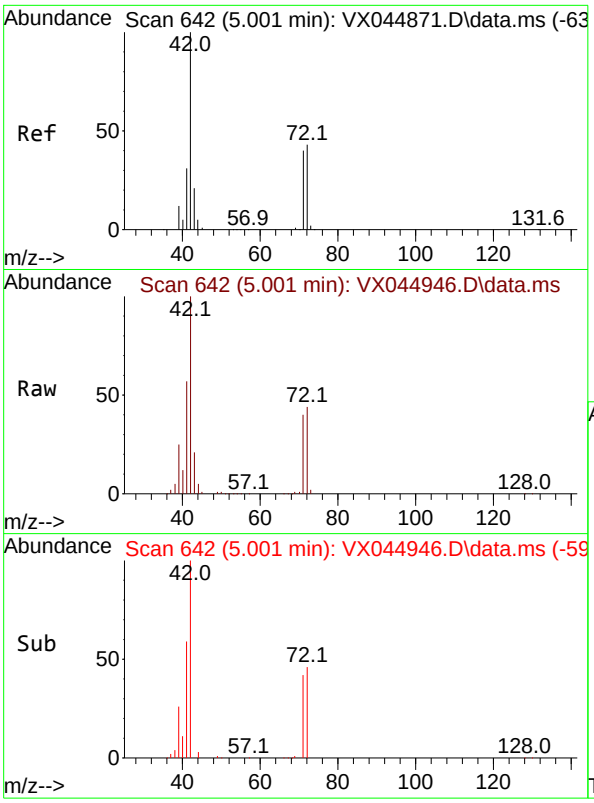


#28
Bromochloromethane
Concen: 45.861 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 49 Resp: 58978

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	70.4	56.7	85.1



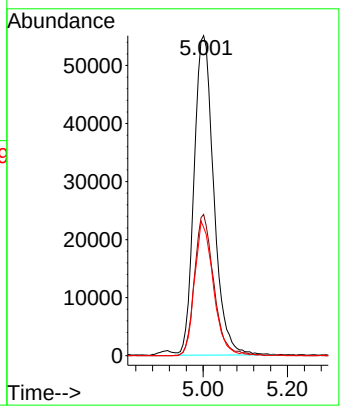


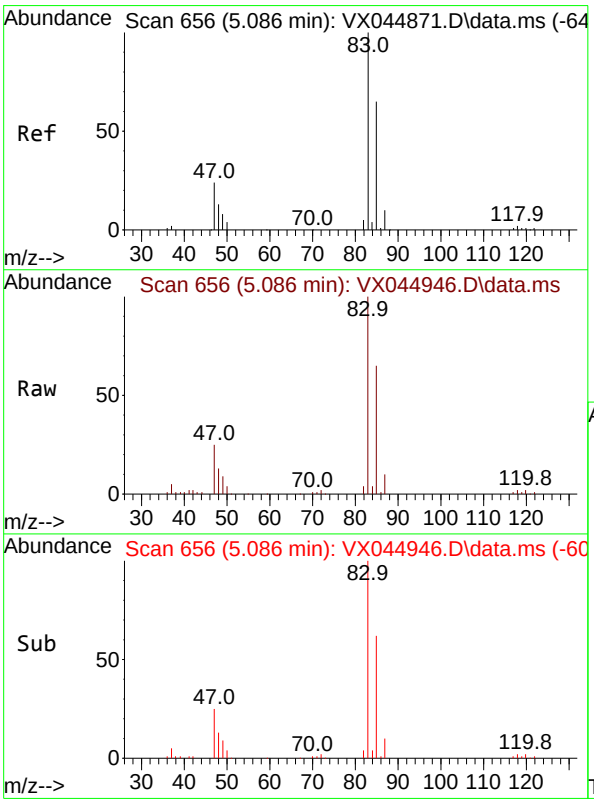
#29
Tetrahydrofuran
Concen: 259.995 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 179030

Ion	Ratio	Lower	Upper
42	100		
72	43.4	35.0	52.4
71	40.3	32.6	48.8

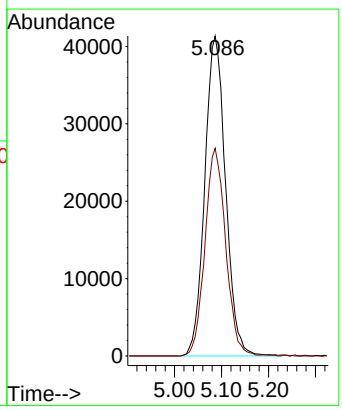


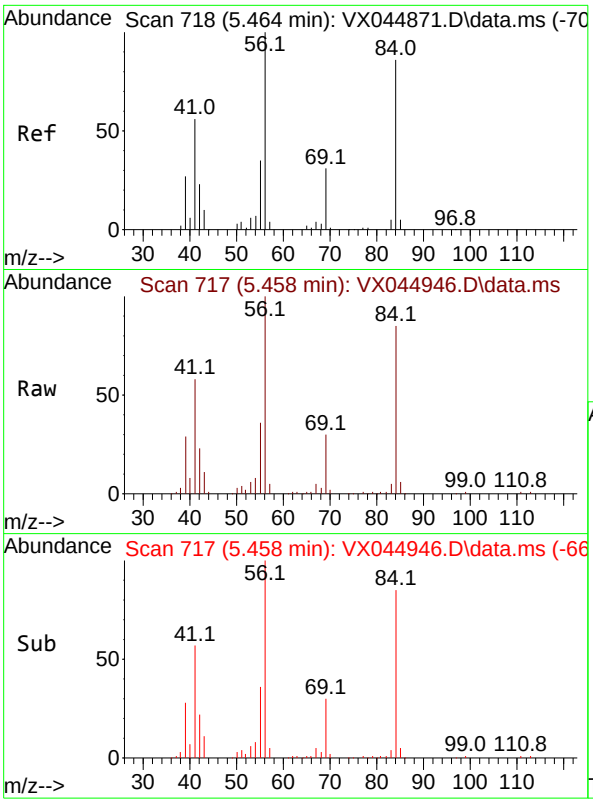


#30
Chloroform
Concen: 48.960 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 83 Resp: 127059

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.1	78.1



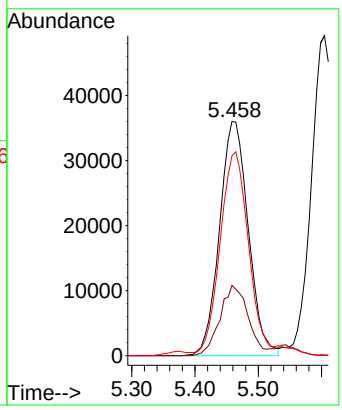


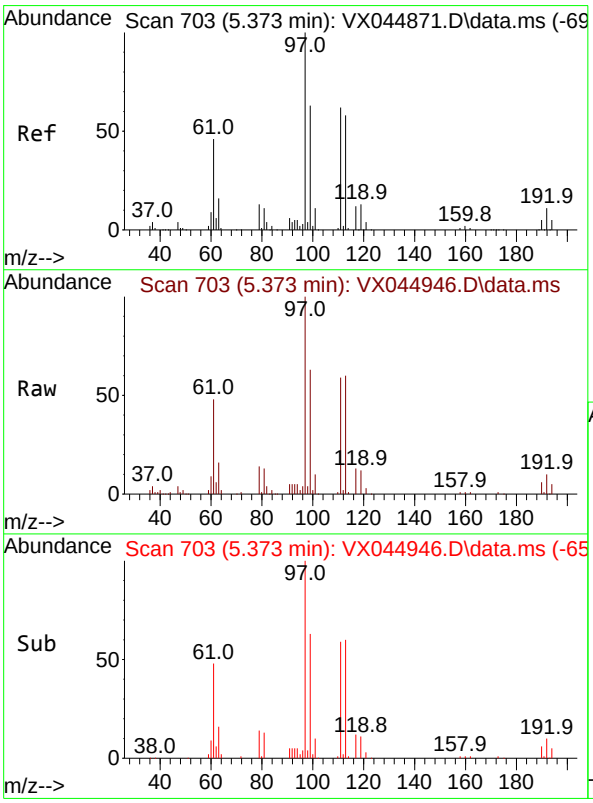
#31
Cyclohexane
Concen: 46.115 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 113766

Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	83.4	69.0	103.6

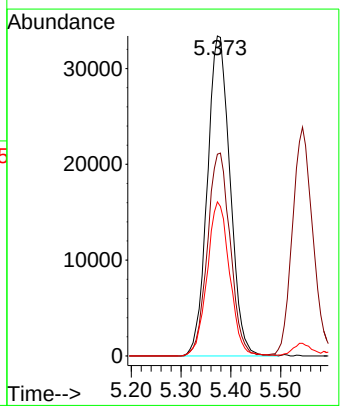


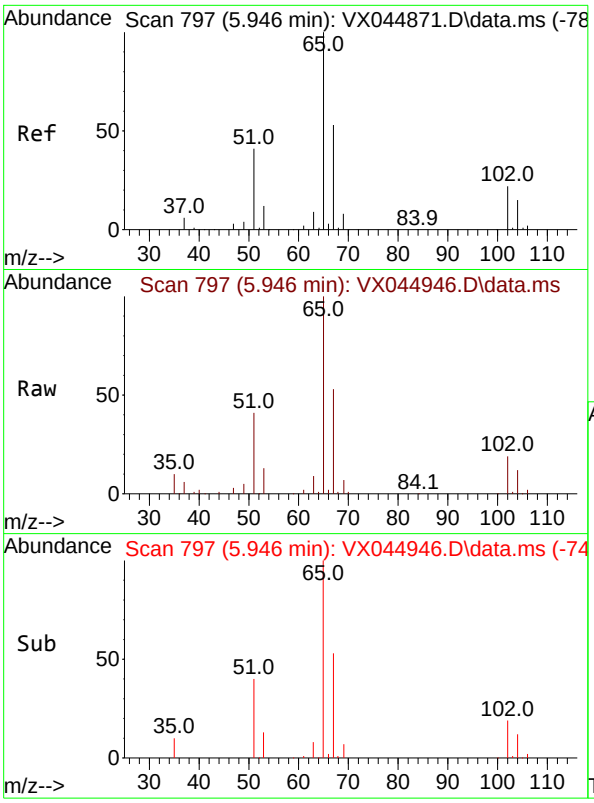


#32
1,1,1-Trichloroethane
Concen: 47.962 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 97 Resp: 105575

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.0	76.6
61	47.9	36.6	55.0



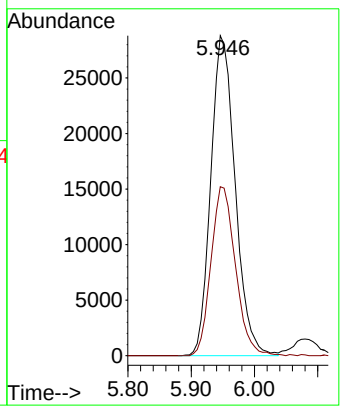


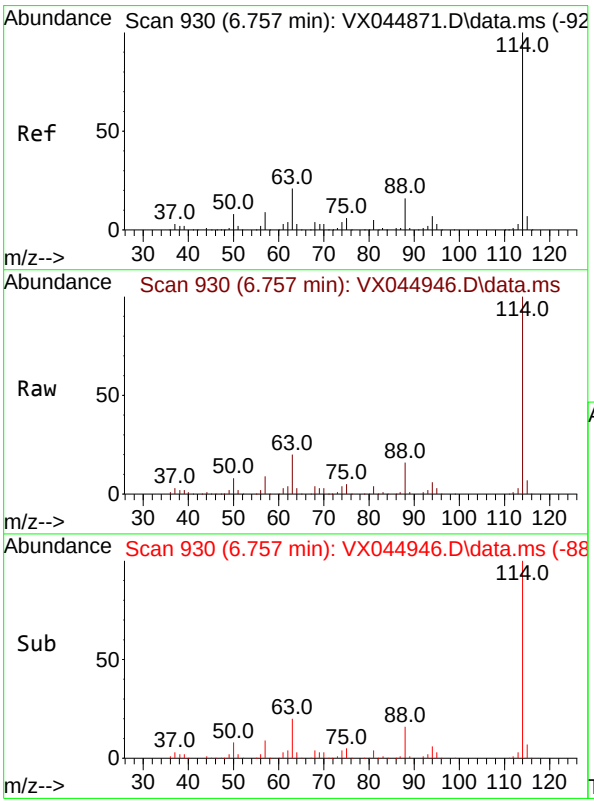
#33
1,2-Dichloroethane-d4
Concen: 48.504 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 77052

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	108.2

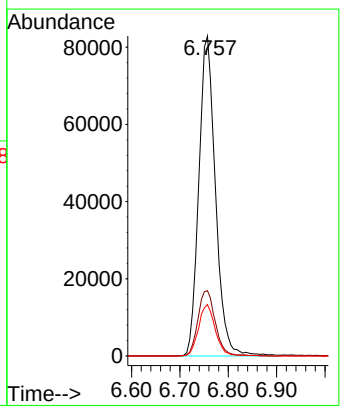


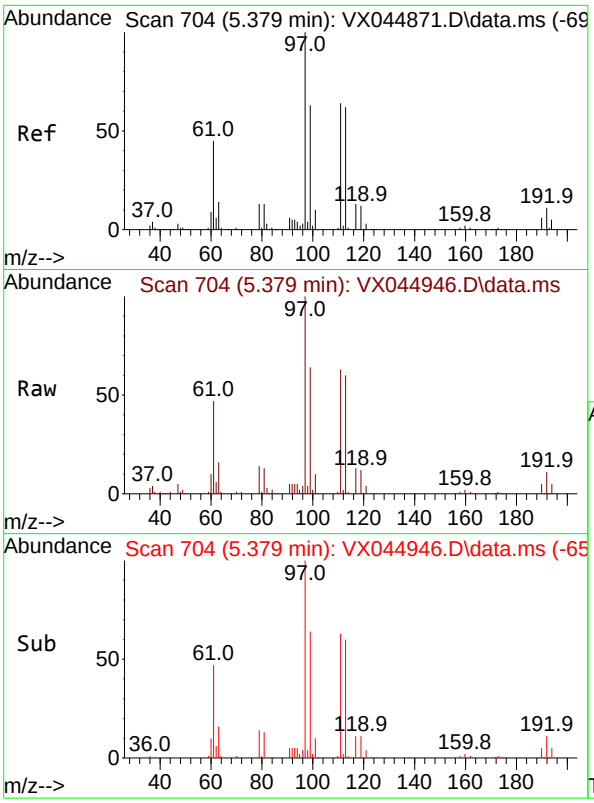


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:114 Resp: 198728

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.4
88	16.0	0.0	31.4



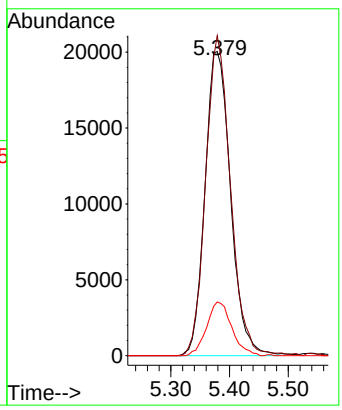


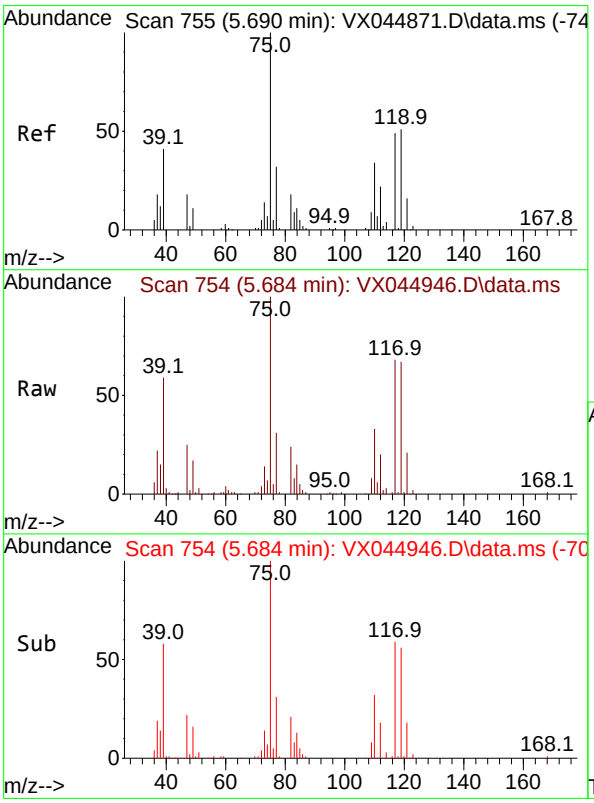
#35
Dibromofluoromethane
Concen: 46.969 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 60687

Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.5	125.3
192	17.3	14.4	21.6

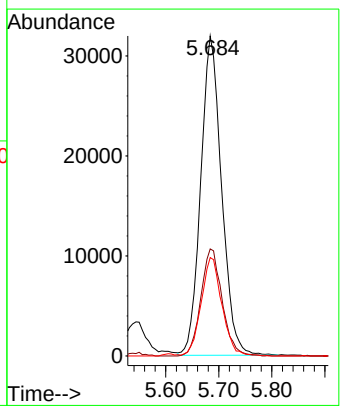


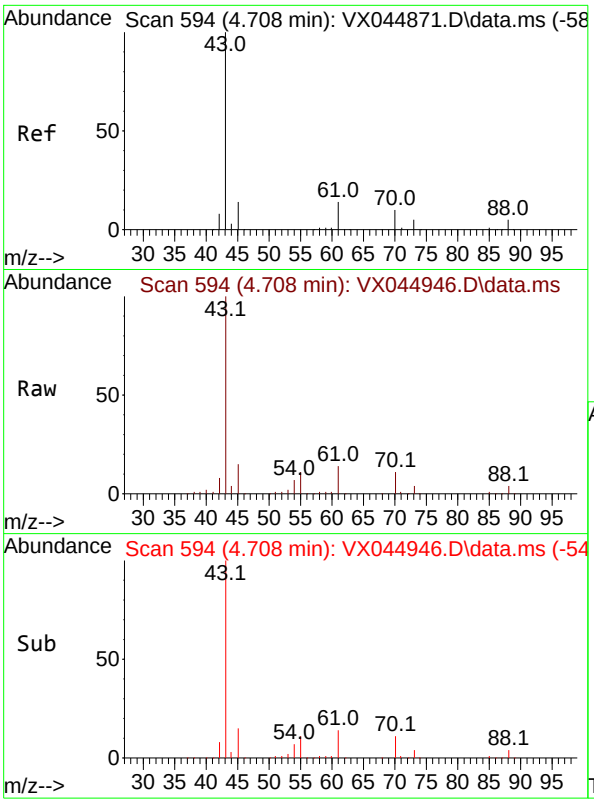


#36
1,1-Dichloropropene
Concen: 46.885 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 87398

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.2	51.6
77	30.7	24.6	37.0



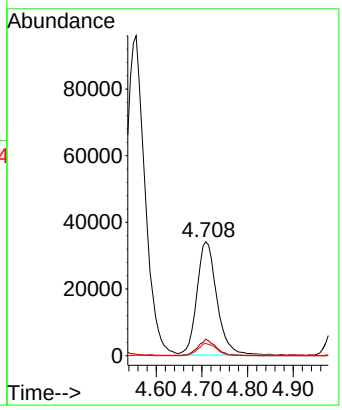


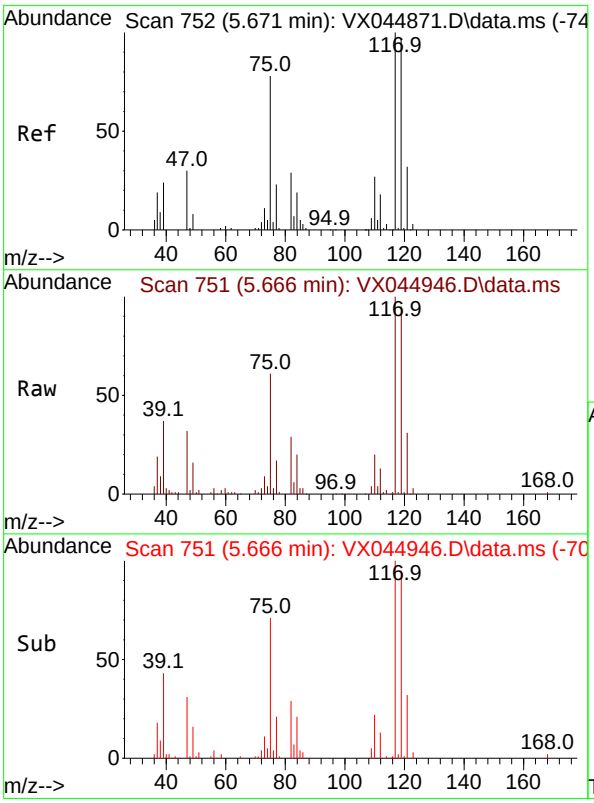
#37
Ethyl Acetate
Concen: 49.909 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 103482

Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.0	16.4
70	10.3	8.2	12.2

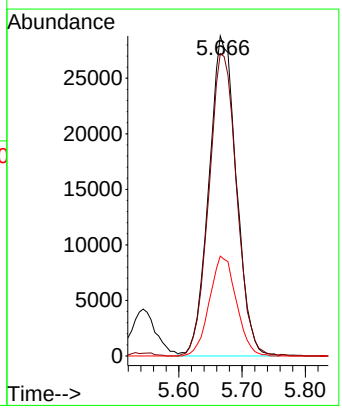


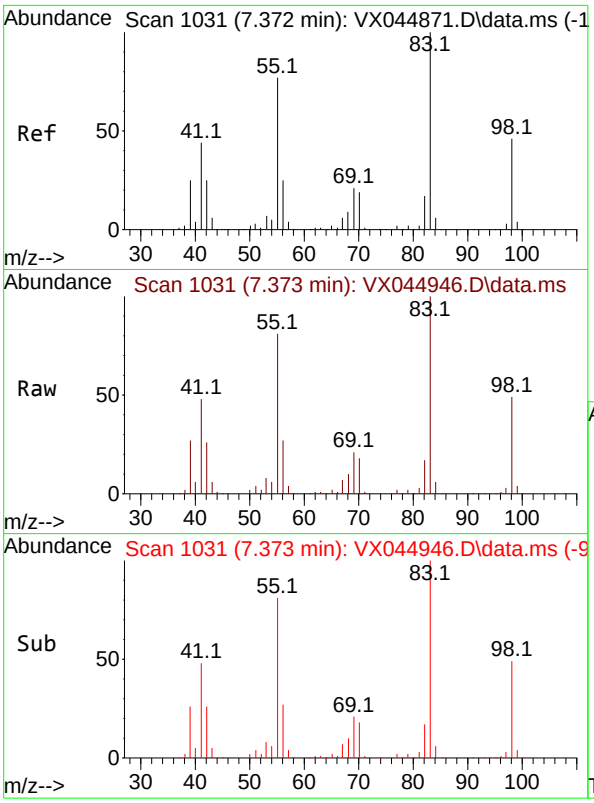


#38
Carbon Tetrachloride
Concen: 47.524 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:117 Resp: 86813

Ion	Ratio	Lower	Upper
117	100		
119	94.5	77.5	116.3
121	31.2	25.6	38.4



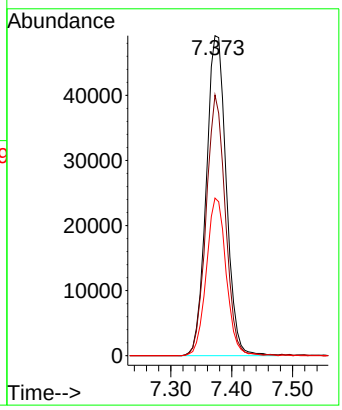


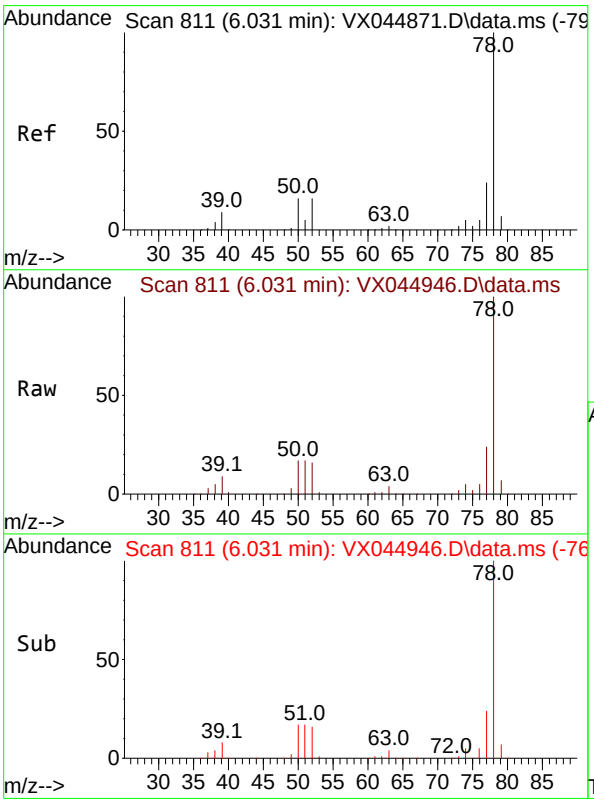
#39
Methylcyclohexane
Concen: 46.499 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 112061

Ion	Ratio	Lower	Upper
83	100		
55	81.5	61.3	91.9
98	49.2	37.0	55.6

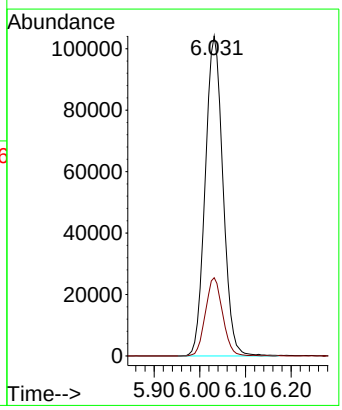


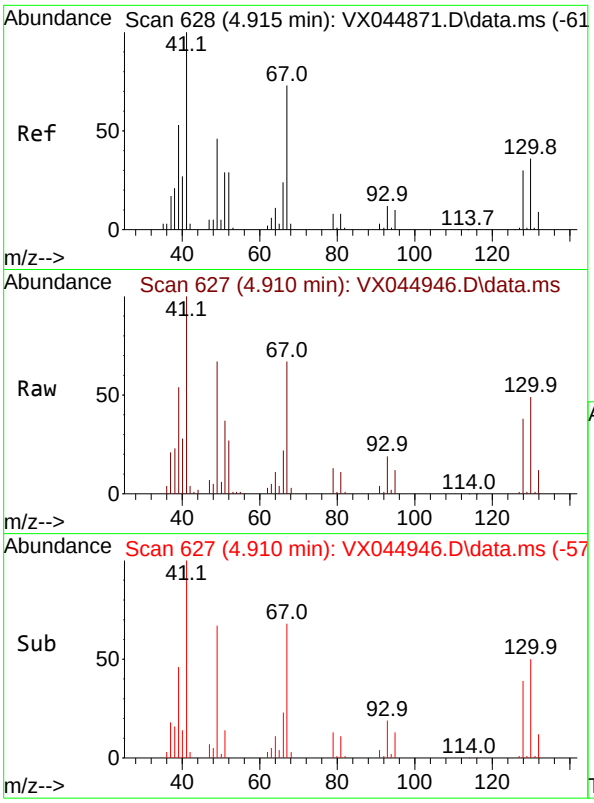


#40
Benzene
Concen: 48.106 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 78 Resp: 280015

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6



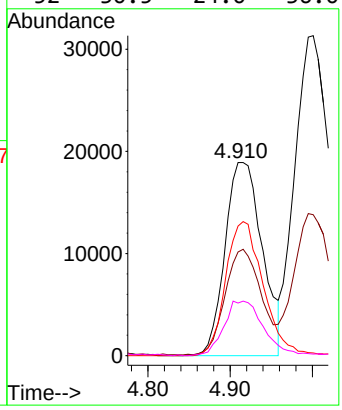


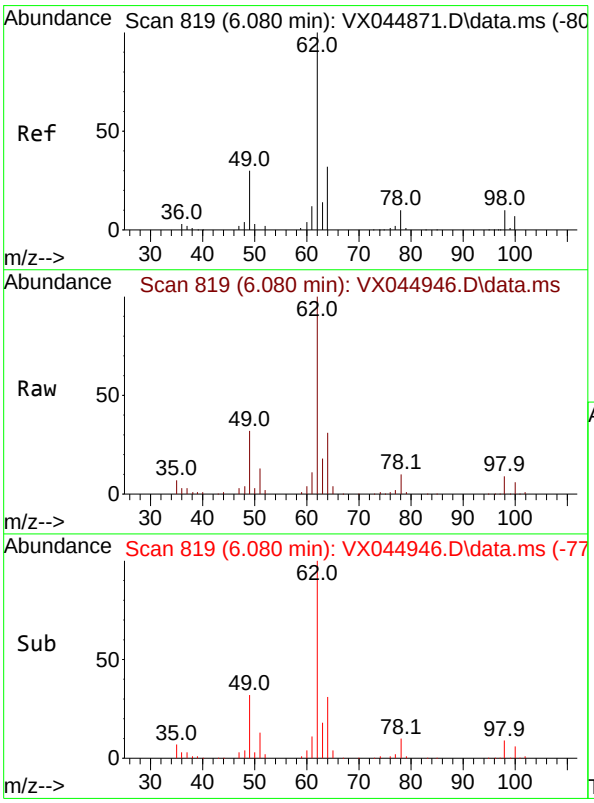
#41
Methacrylonitrile
Concen: 53.812 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 59722

Ion	Ratio	Lower	Upper
41	100		
39	51.8	43.1	64.7
67	70.0	57.0	85.6
52	30.5	24.0	36.0

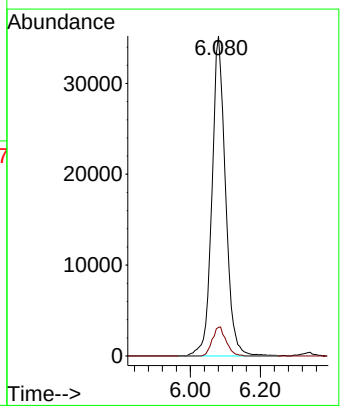


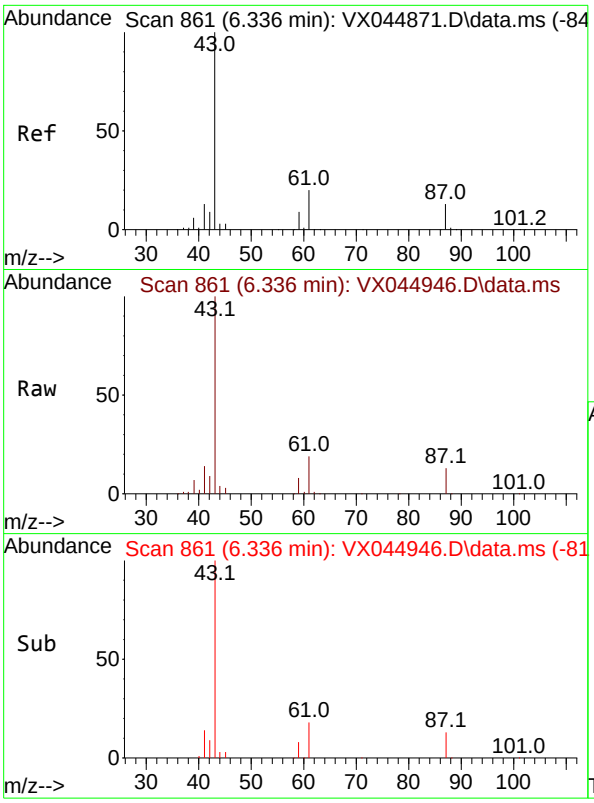


#42
1,2-Dichloroethane
Concen: 51.167 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 62 Resp: 94923

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.4



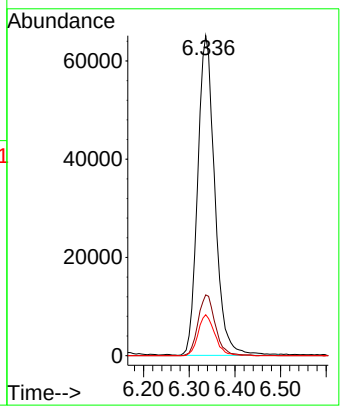


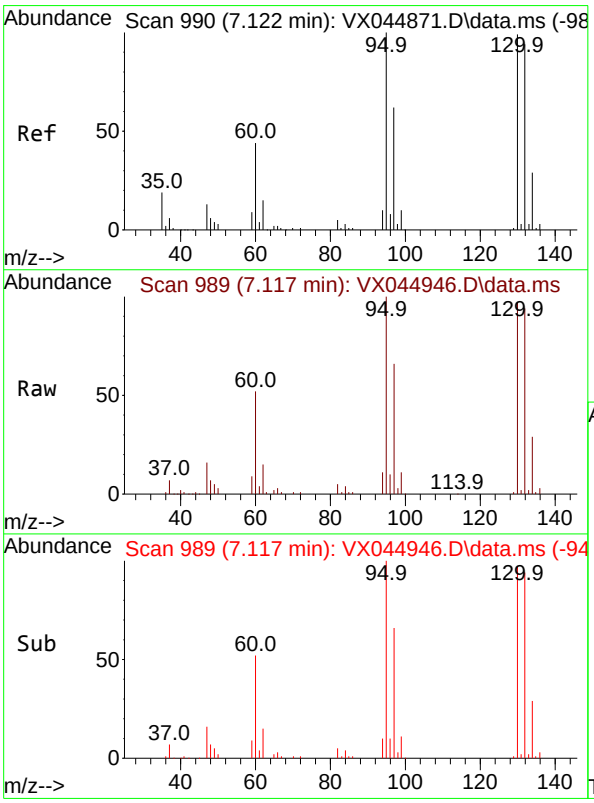
#43
Isopropyl Acetate
Concen: 50.605 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 169437

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.8	23.8
87	12.4	10.0	15.0

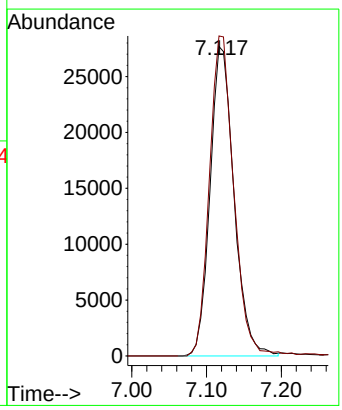


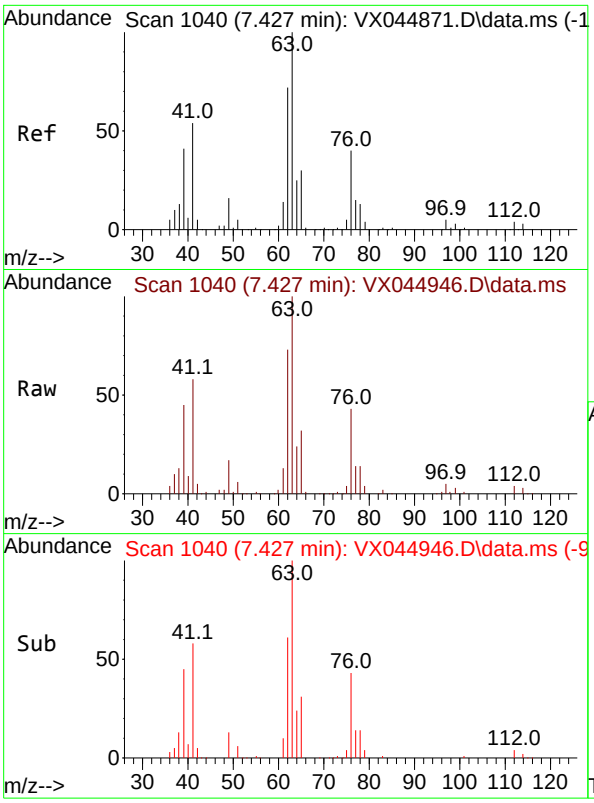


#44
Trichloroethene
Concen: 46.385 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:130 Resp: 61715

Ion	Ratio	Lower	Upper
130	100		
95	103.4	0.0	202.4



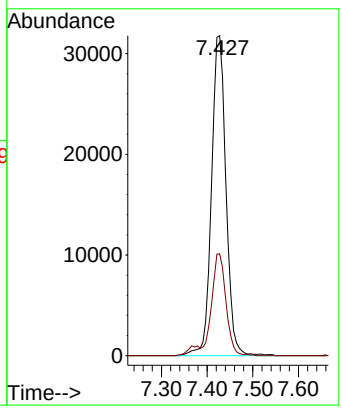


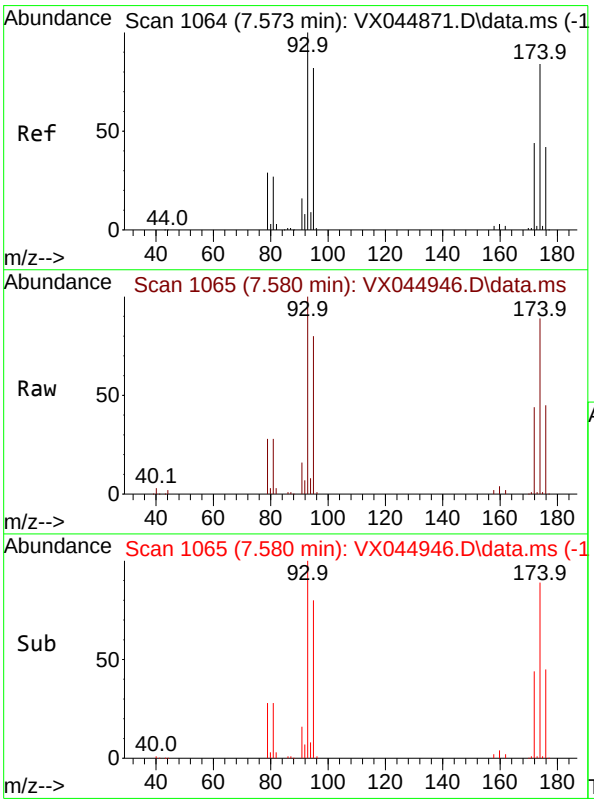
#45
1,2-Dichloropropane
Concen: 48.407 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 70100

Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.2	36.4

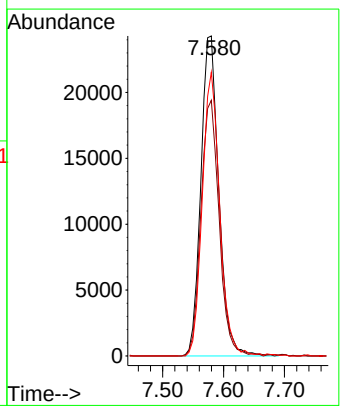


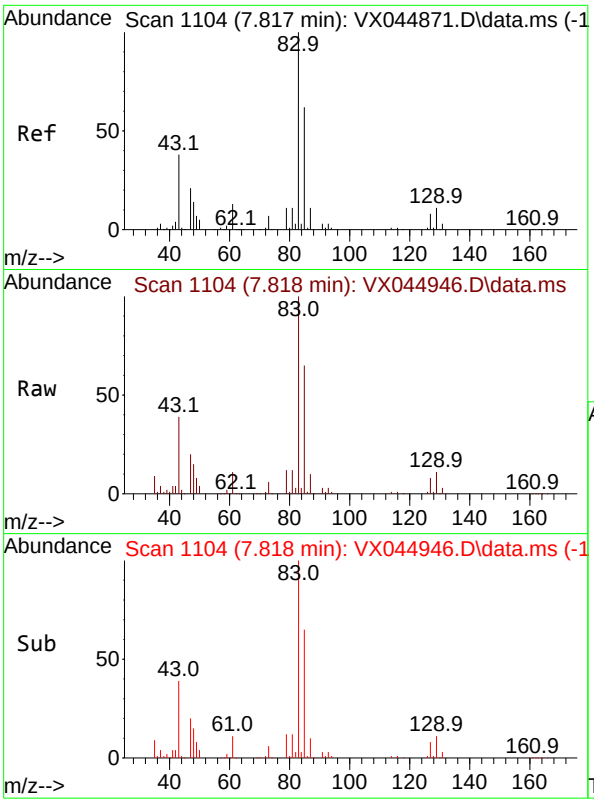


#46
Dibromomethane
Concen: 49.691 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 93 Resp: 49903

Ion	Ratio	Lower	Upper
93	100		
95	80.7	66.2	99.4
174	85.8	69.9	104.9



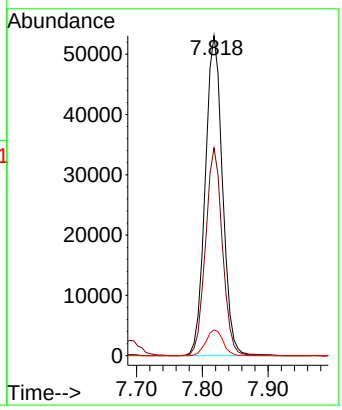


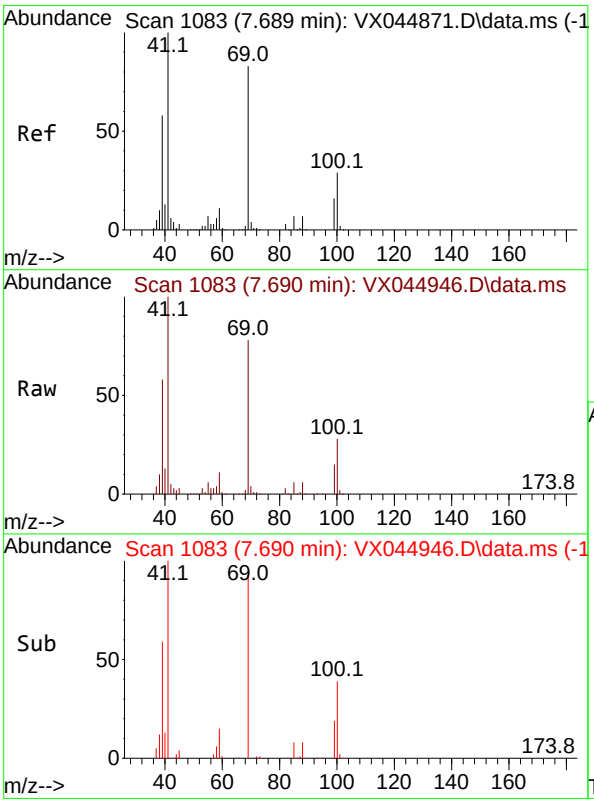
#47
Bromodichloromethane
Concen: 49.803 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 96846

Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.0	75.0
127	8.0	6.4	9.6

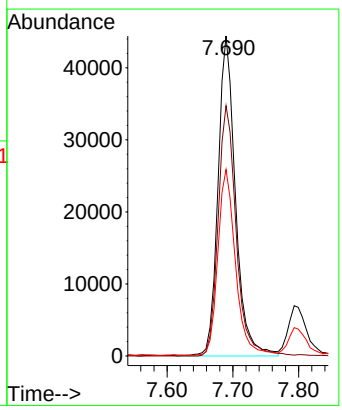


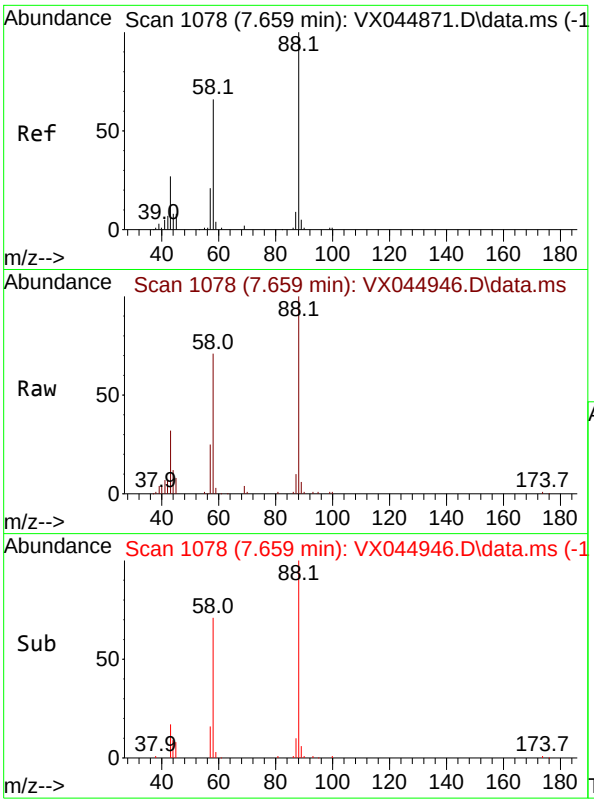


#48
Methyl methacrylate
Concen: 52.025 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 41 Resp: 82133

Ion	Ratio	Lower	Upper
41	100		
69	80.8	65.8	98.8
39	58.5	46.4	69.6



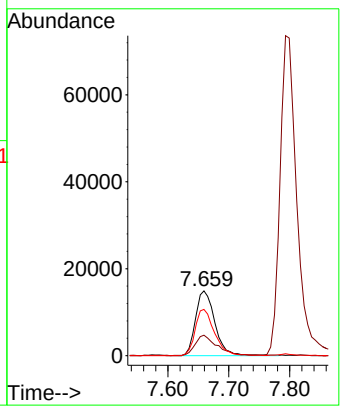


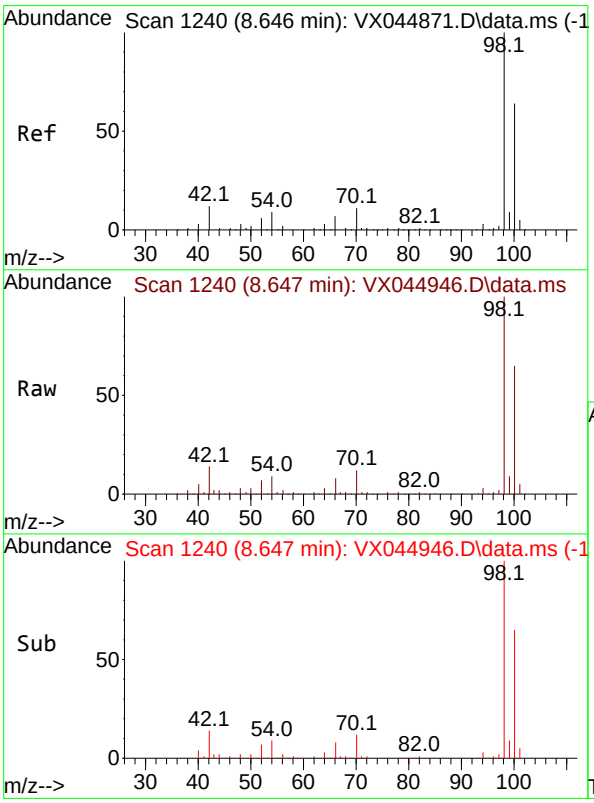
#49
1,4-Dioxane
Concen: 970.105 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 32859

Ion	Ratio	Lower	Upper
88	100		
43	35.9	26.6	39.8
58	71.5	55.9	83.9

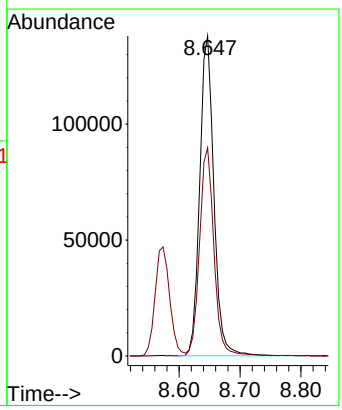


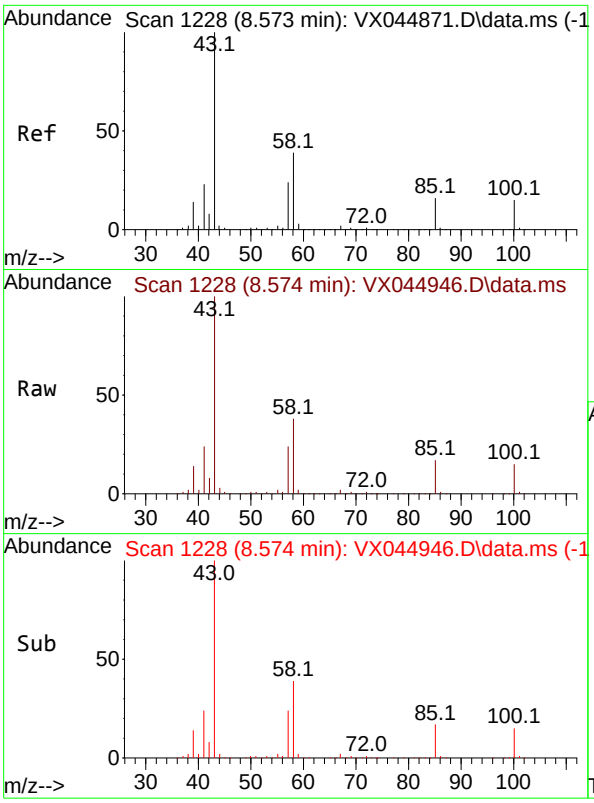


#50
Toluene-d8
Concen: 45.675 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 98 Resp: 223161

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1



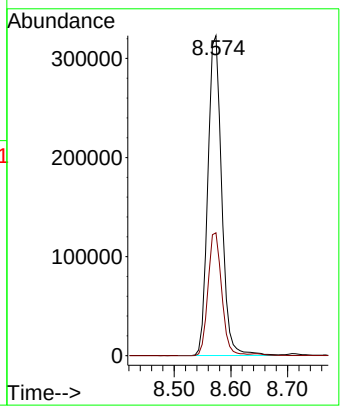


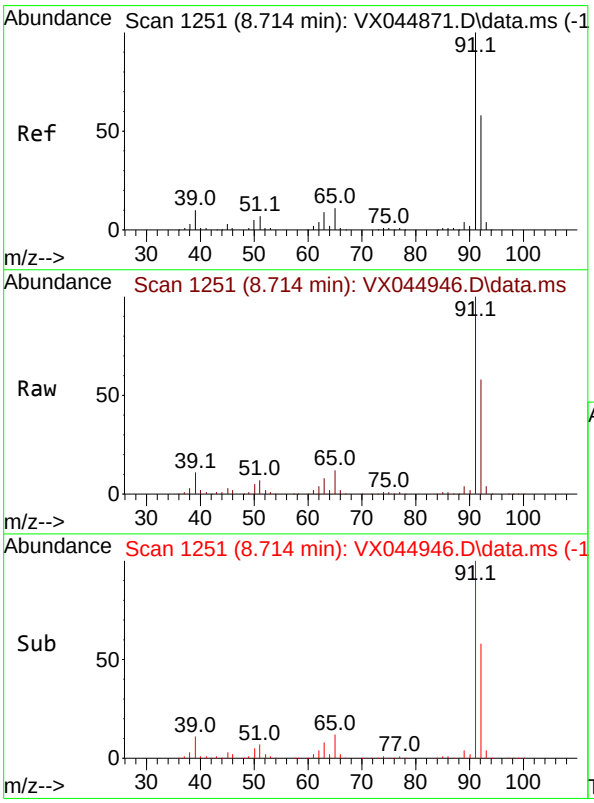
#51
4-Methyl-2-Pentanone
Concen: 269.277 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 548124

Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.8	46.2

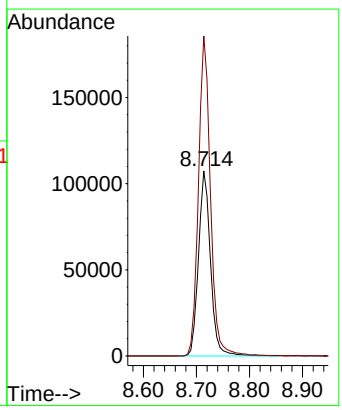


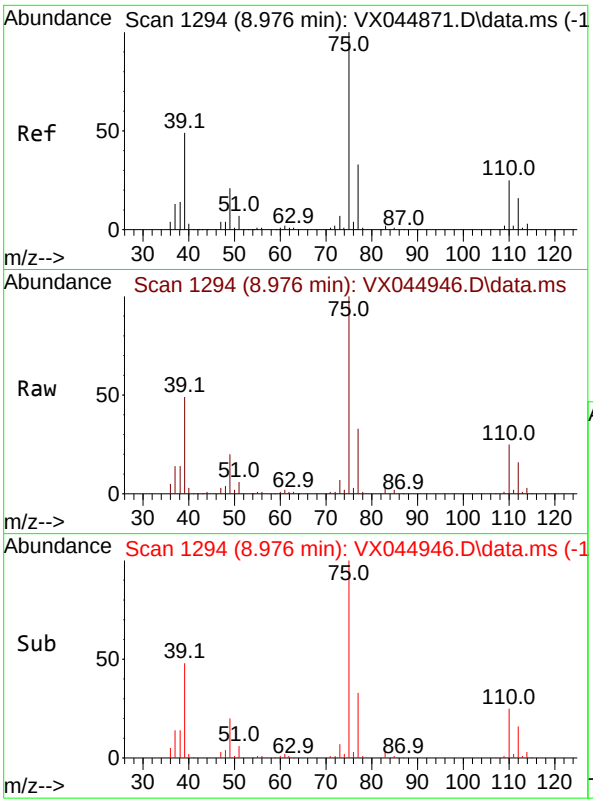


#52
Toluene
Concen: 48.775 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 92 Resp: 169085

Ion	Ratio	Lower	Upper
92	100		
91	173.1	137.4	206.2



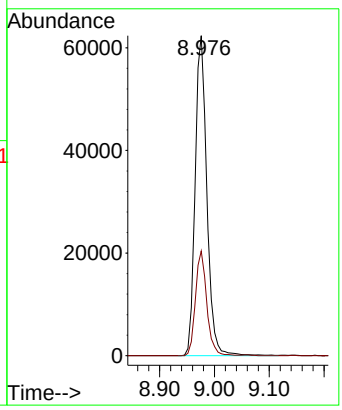


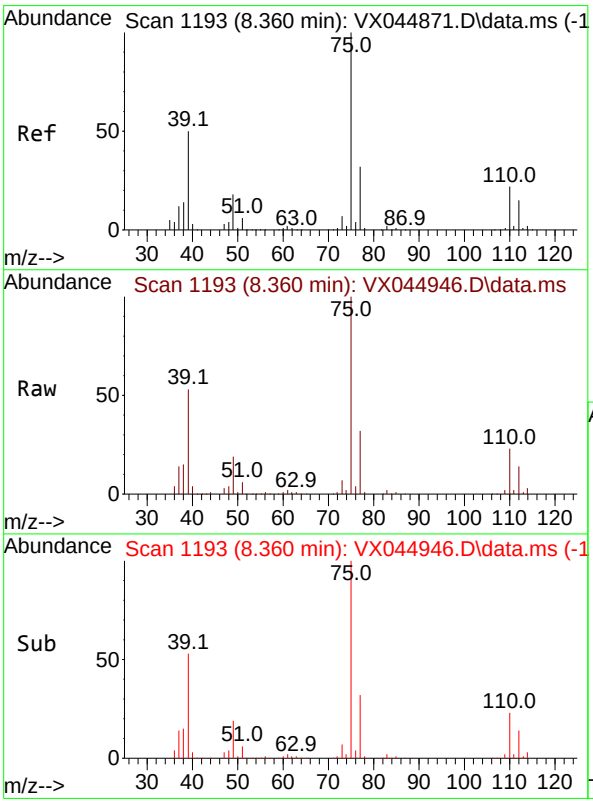
#53
t-1,3-Dichloropropene
Concen: 47.240 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 92960

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.0	39.0

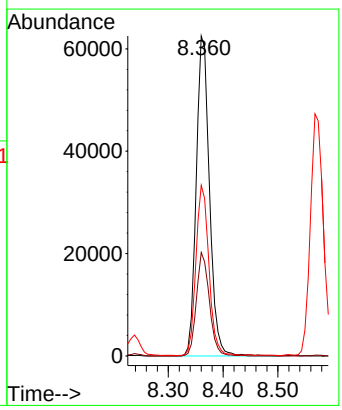


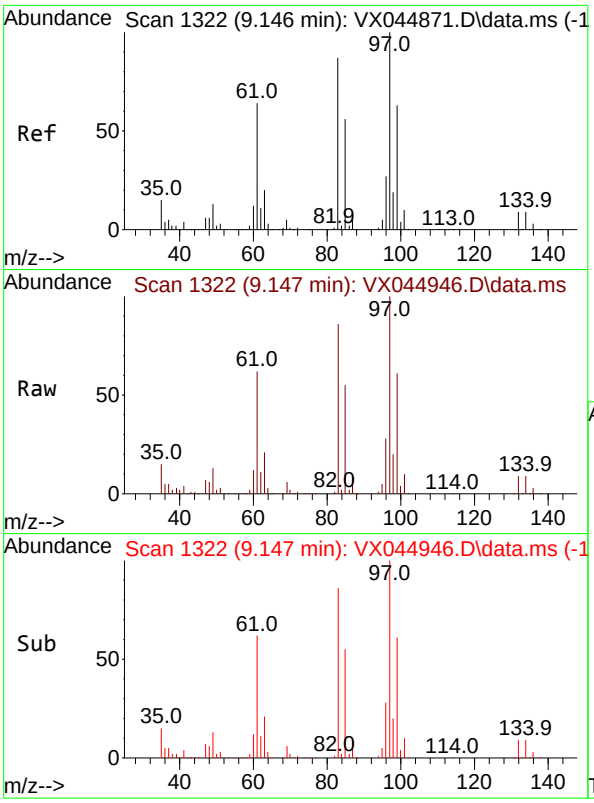


#54
cis-1,3-Dichloropropene
Concen: 47.971 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 105250

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.3	37.9
39	53.2	40.0	60.0



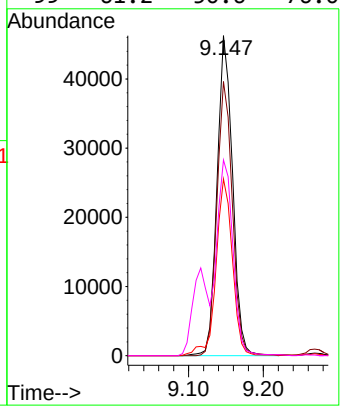


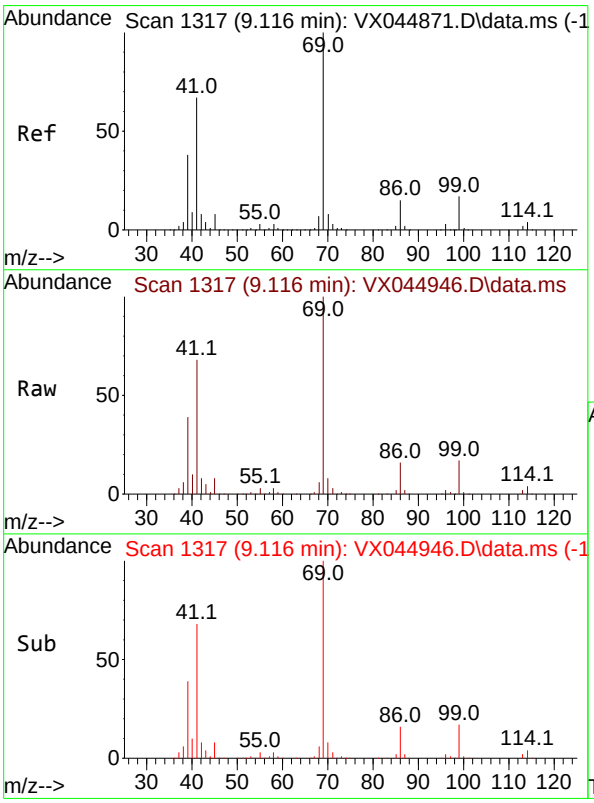
#55
1,1,2-Trichloroethane
Concen: 50.097 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 66760

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.8	104.6
85	55.2	44.8	67.2
99	61.2	50.6	76.0

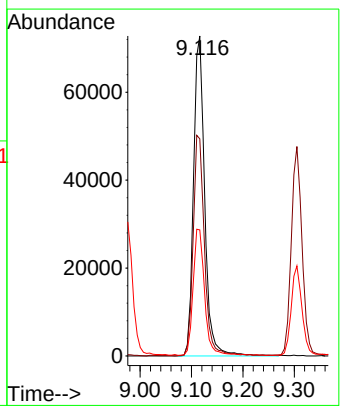


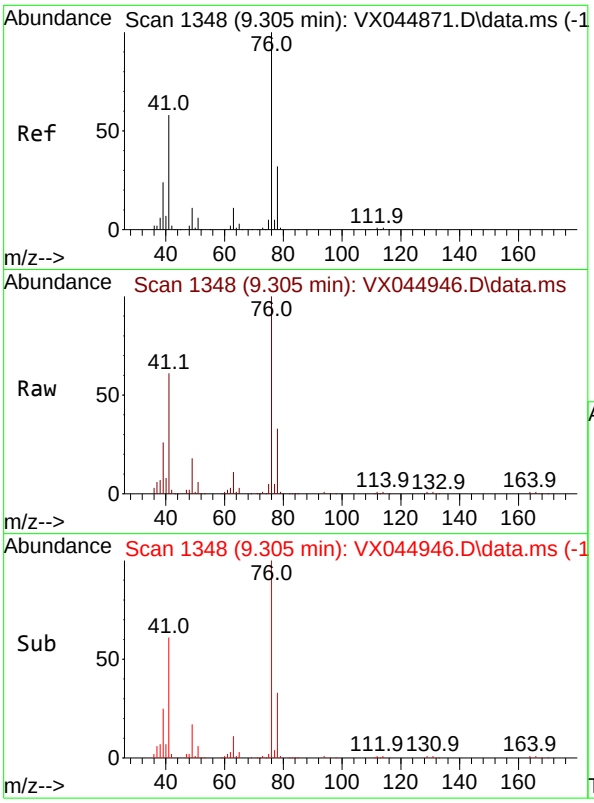


#56
Ethyl methacrylate
Concen: 51.239 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 69 Resp: 110282

Ion	Ratio	Lower	Upper
69	100		
41	70.0	55.2	82.8
39	40.5	30.8	46.2



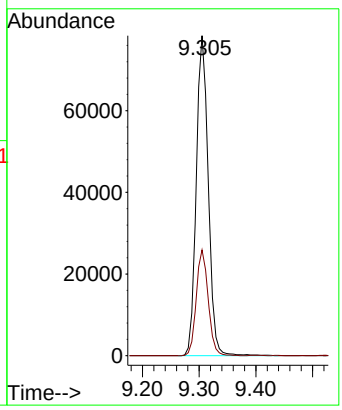


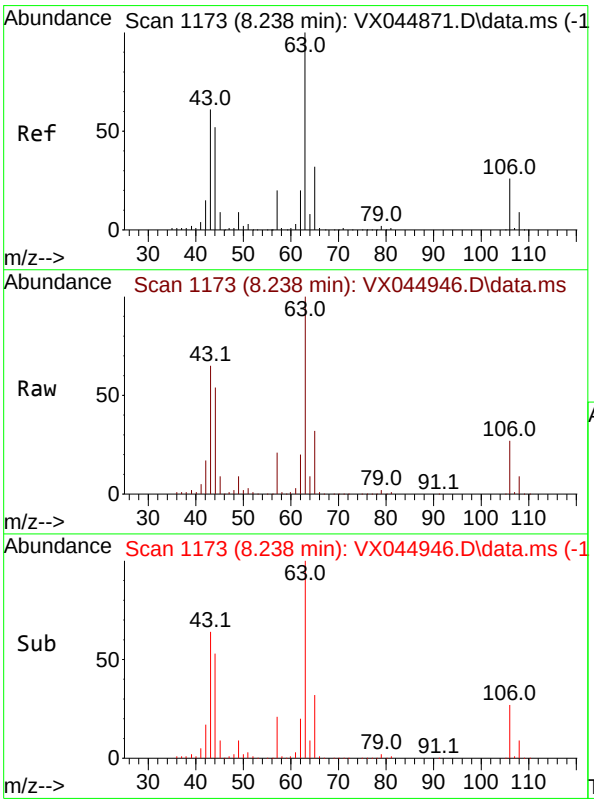
#57
1,3-Dichloropropane
Concen: 49.311 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 114977

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.8

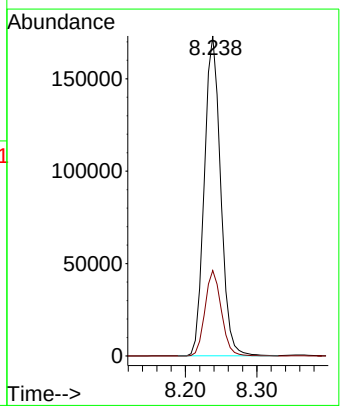


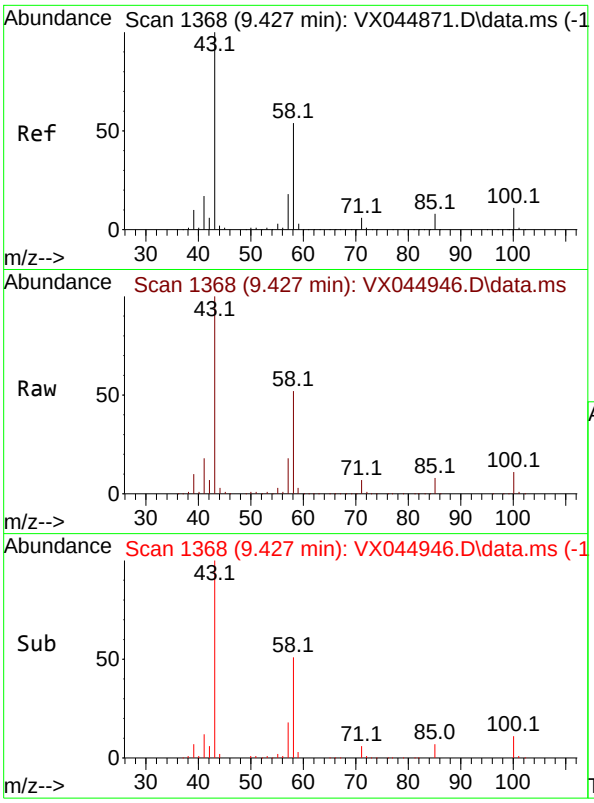


#58
2-Chloroethyl Vinyl ether
Concen: 259.716 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 63 Resp: 274468

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.3	31.9



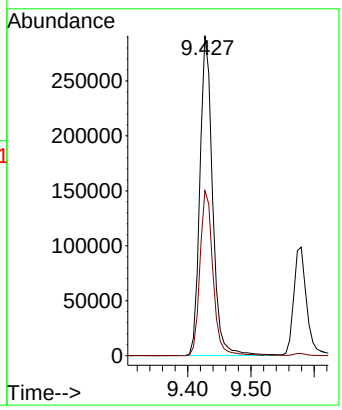


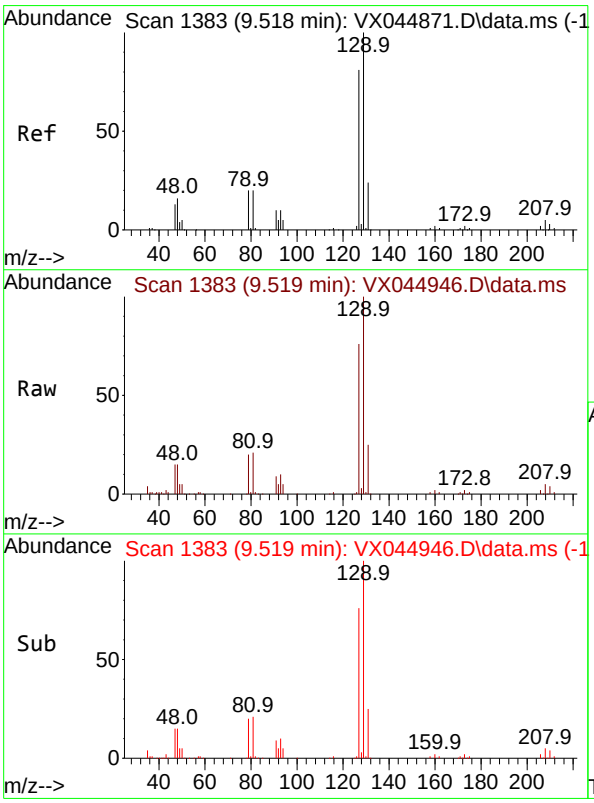
#59
2-Hexanone
Concen: 277.591 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 407121

Ion	Ratio	Lower	Upper
43	100		
58	52.9	27.5	82.4

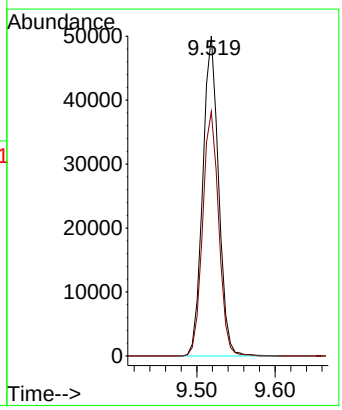


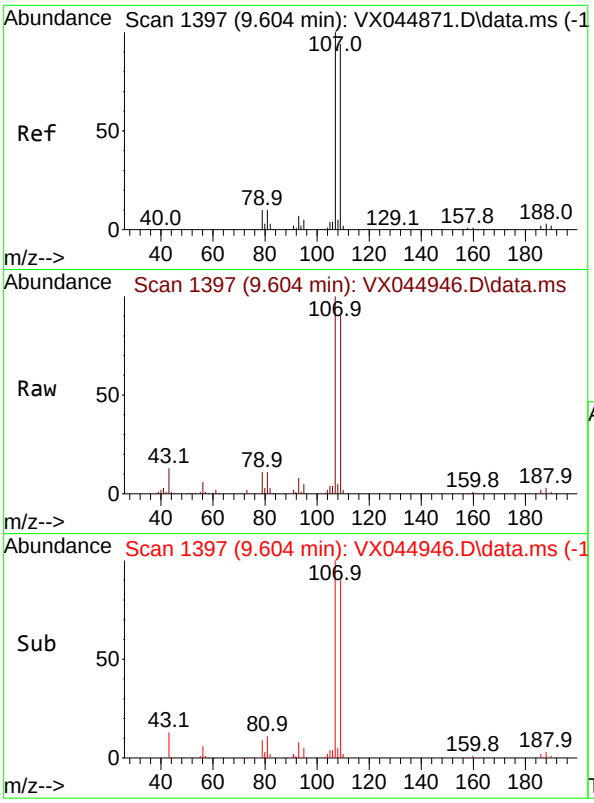


#60
Dibromochloromethane
Concen: 49.231 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:129 Resp: 70163

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3



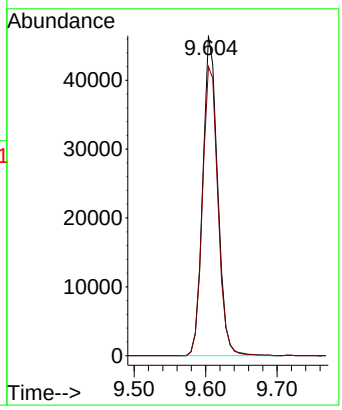


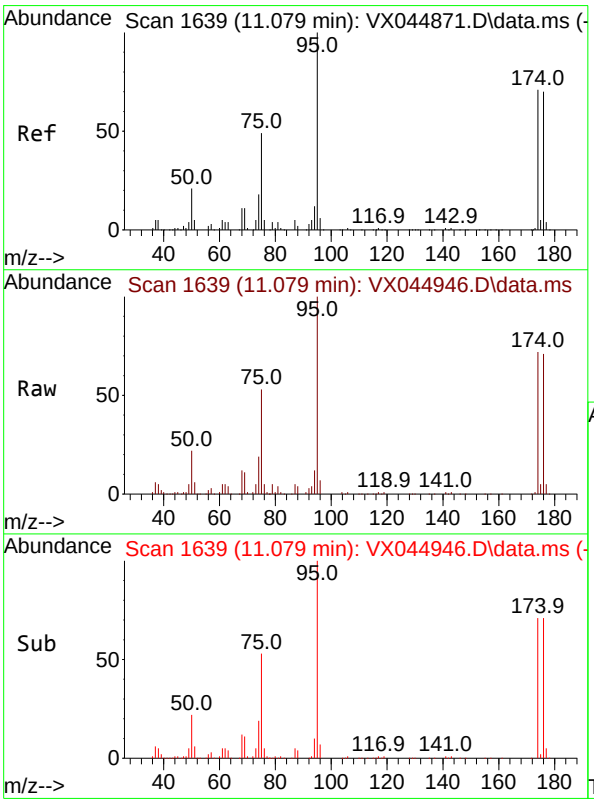
#61
1,2-Dibromoethane
Concen: 49.619 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 67019

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.9	113.9

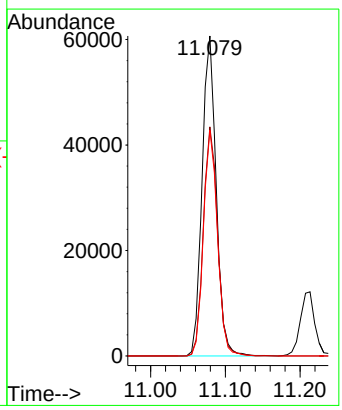


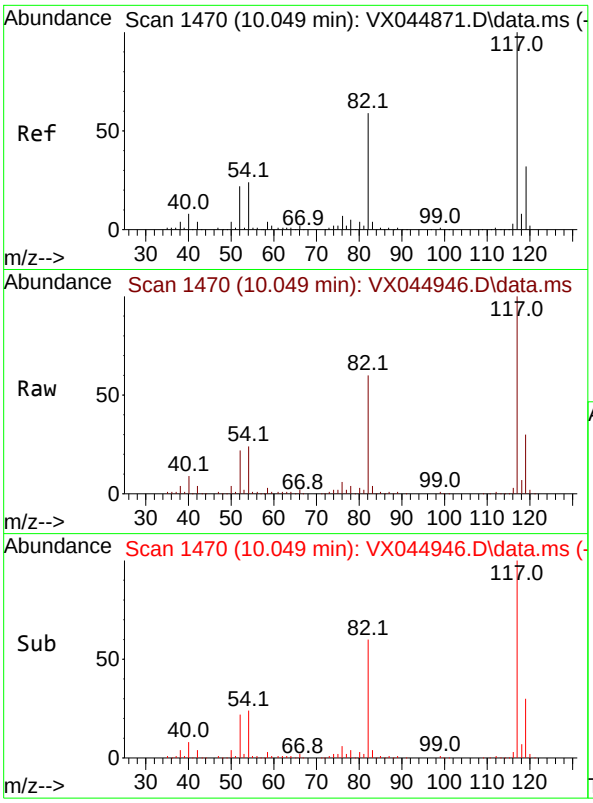


#62
4-Bromofluorobenzene
Concen: 48.224 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 95 Resp: 79430

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	142.6
176	70.0	0.0	141.6



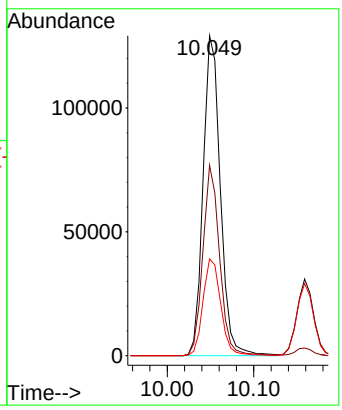


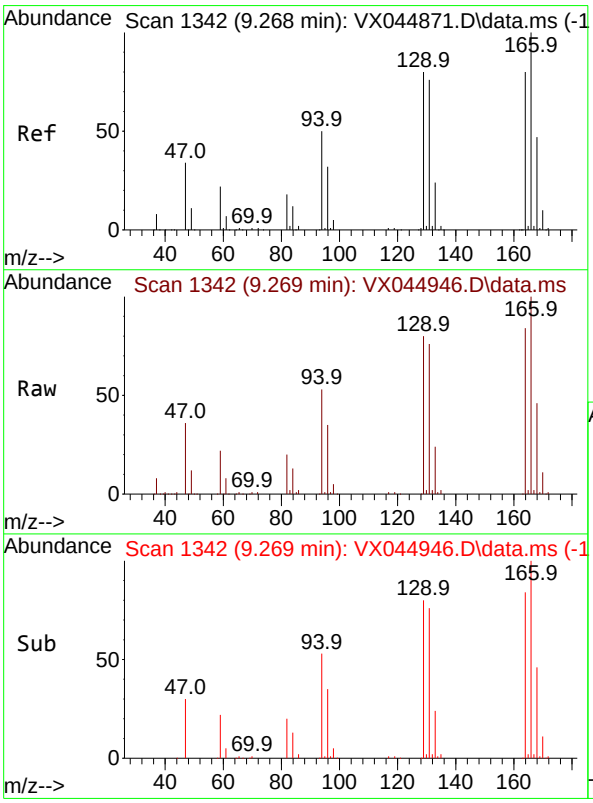
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 178828

Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.5	71.3
119	30.3	25.4	38.0

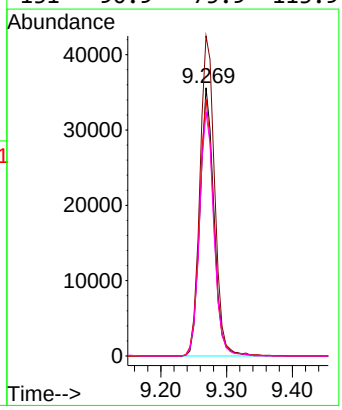


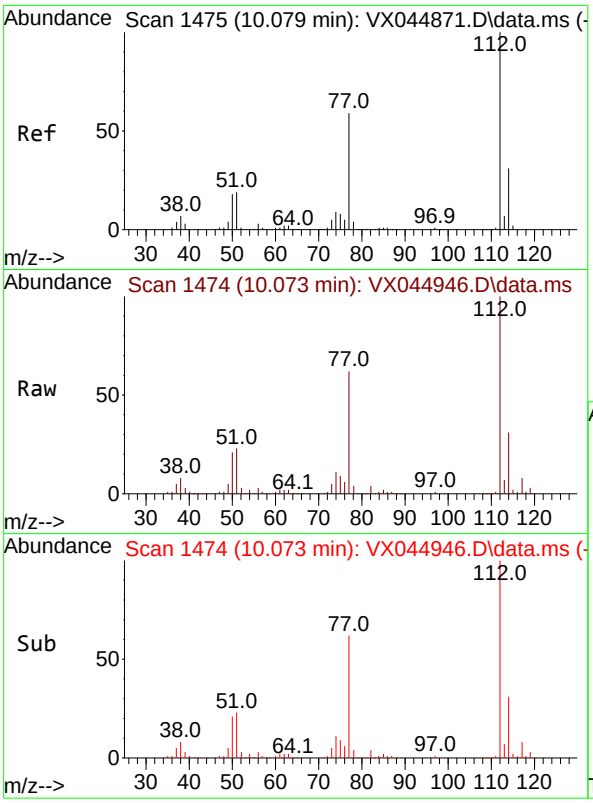


#64
Tetrachloroethene
Concen: 46.552 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:164 Resp: 52500

Ion	Ratio	Lower	Upper
164	100		
166	119.3	100.4	150.6
129	95.8	79.9	119.9
131	90.9	75.9	113.9



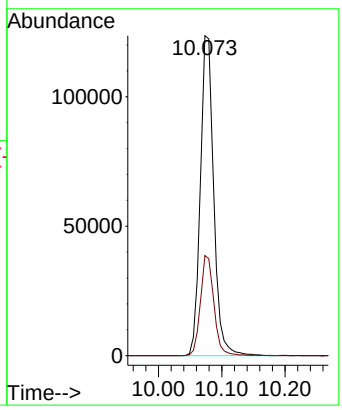


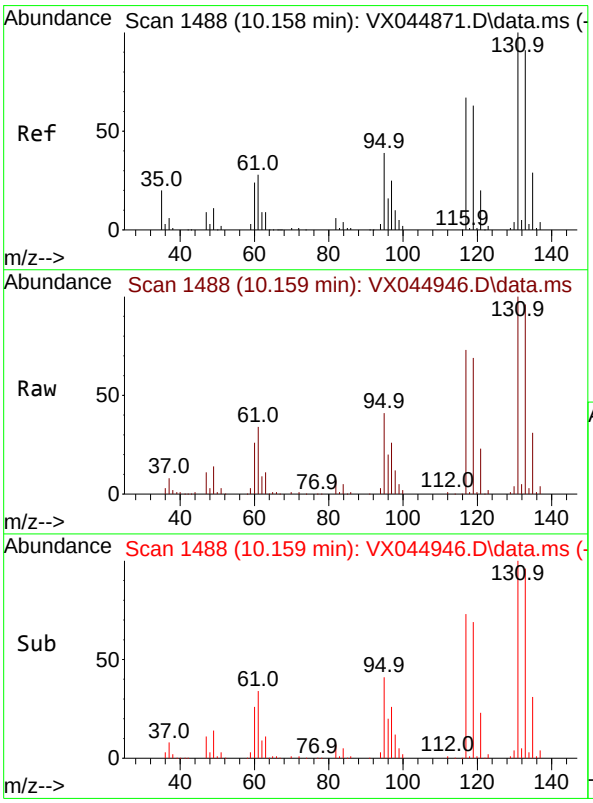
#65
Chlorobenzene
Concen: 47.447 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 182243

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6

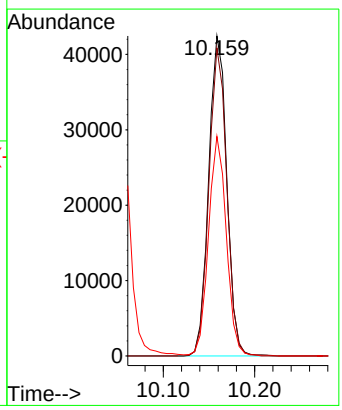


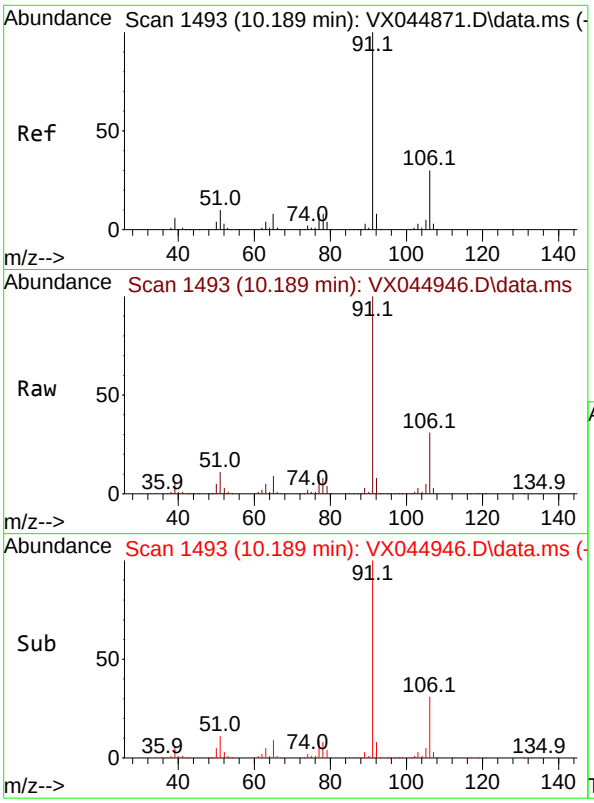


#66
1,1,1,2-Tetrachloroethane
Concen: 47.222 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:131 Resp: 58380

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.1	141.3
119	67.6	33.6	100.6



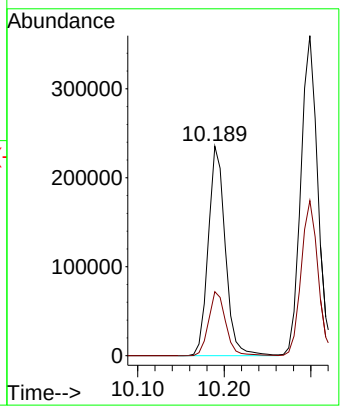


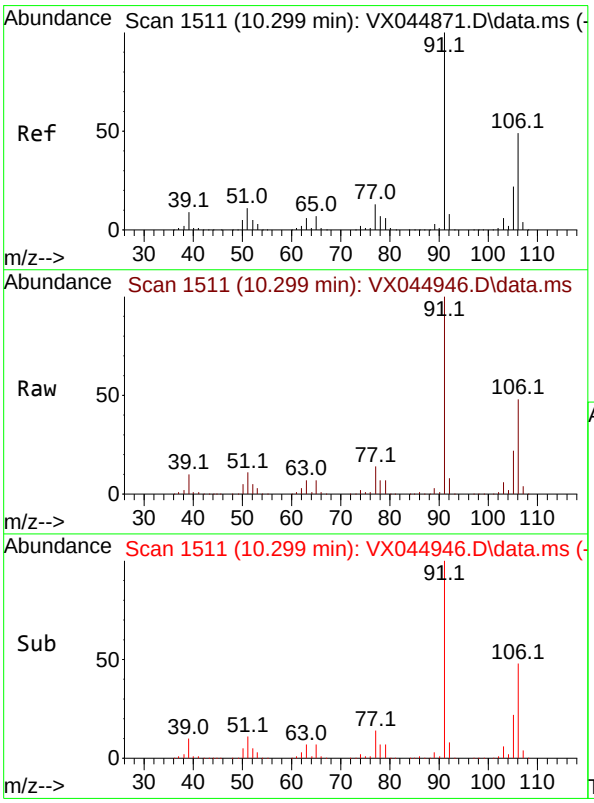
#67
Ethyl Benzene
Concen: 47.447 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 321600

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.9	35.9

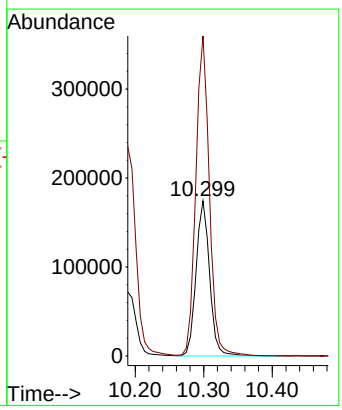


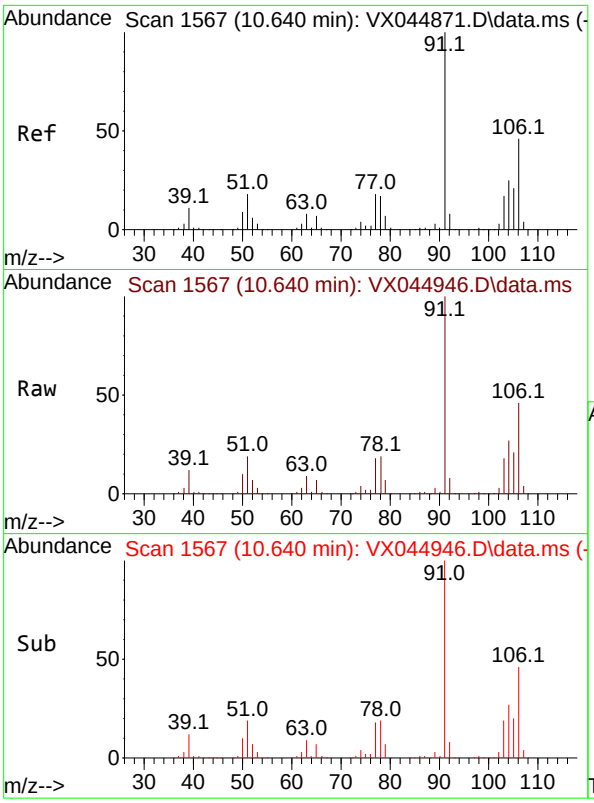


#68
m/p-Xylenes
Concen: 95.958 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:106 Resp: 239927

Ion	Ratio	Lower	Upper
106	100		
91	206.3	164.3	246.5



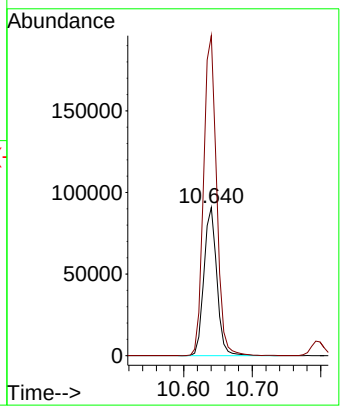


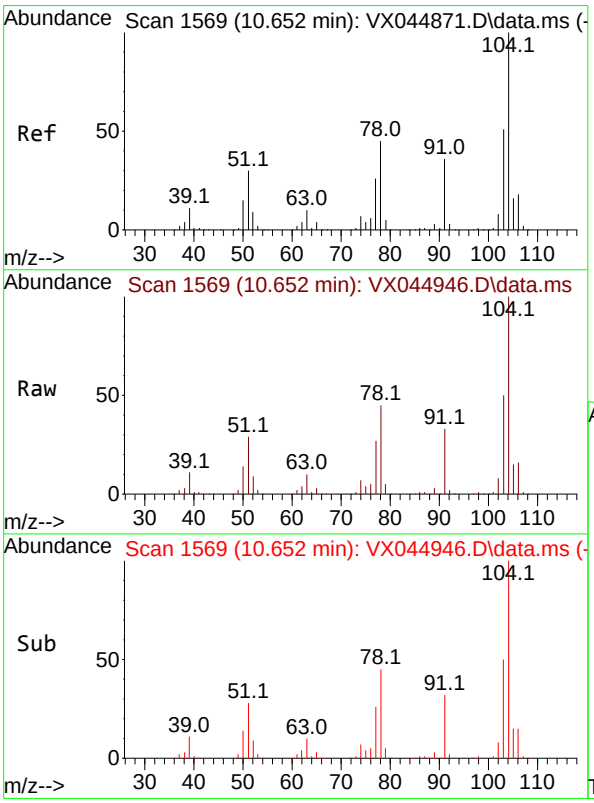
#69
o-Xylene
Concen: 47.505 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 119184

Ion	Ratio	Lower	Upper
106	100		
91	217.8	108.5	325.5

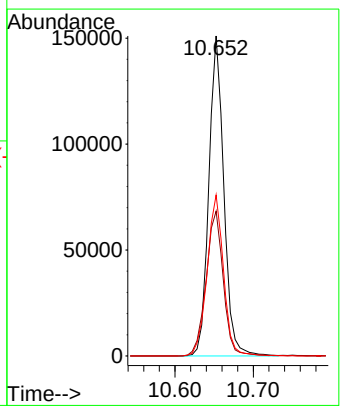


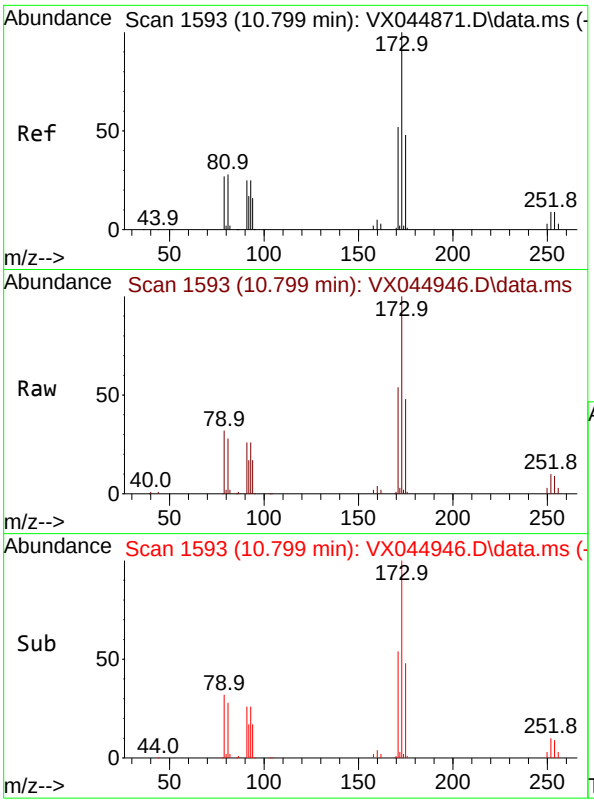


#70
Styrene
Concen: 49.640 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:104 Resp: 200646

Ion	Ratio	Lower	Upper
104	100		
78	52.0	40.5	60.7
103	55.2	43.6	65.4



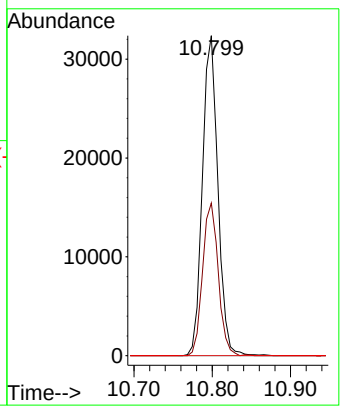


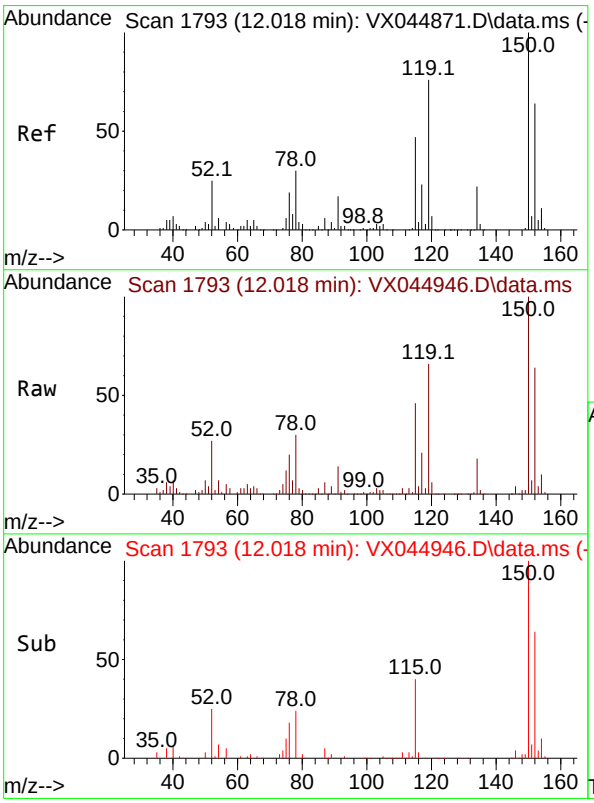
#71
Bromoform
Concen: 48.025 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 44310

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.8
254	0.0	0.0	0.0

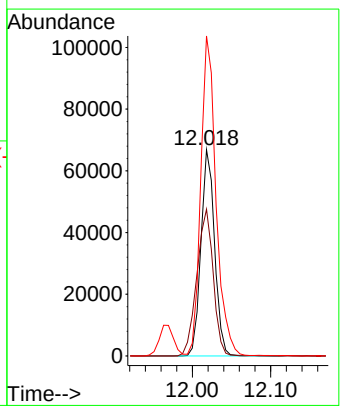


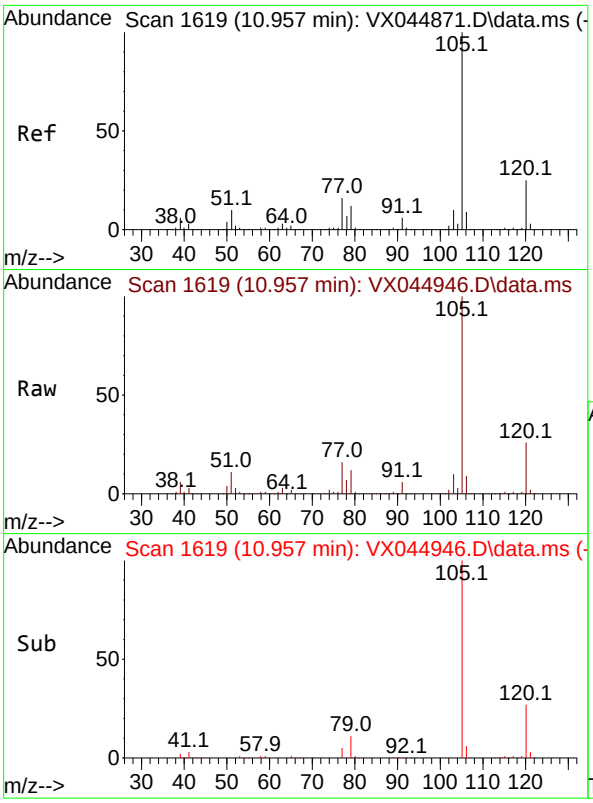


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:152 Resp: 80774

Ion	Ratio	Lower	Upper
152	100		
115	85.4	43.4	130.1
150	172.9	0.0	350.4



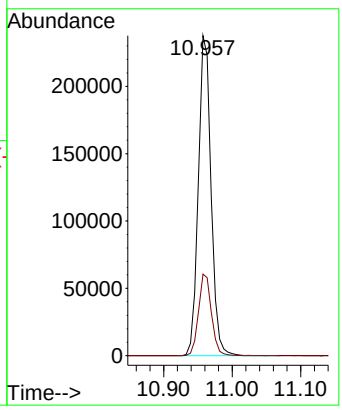


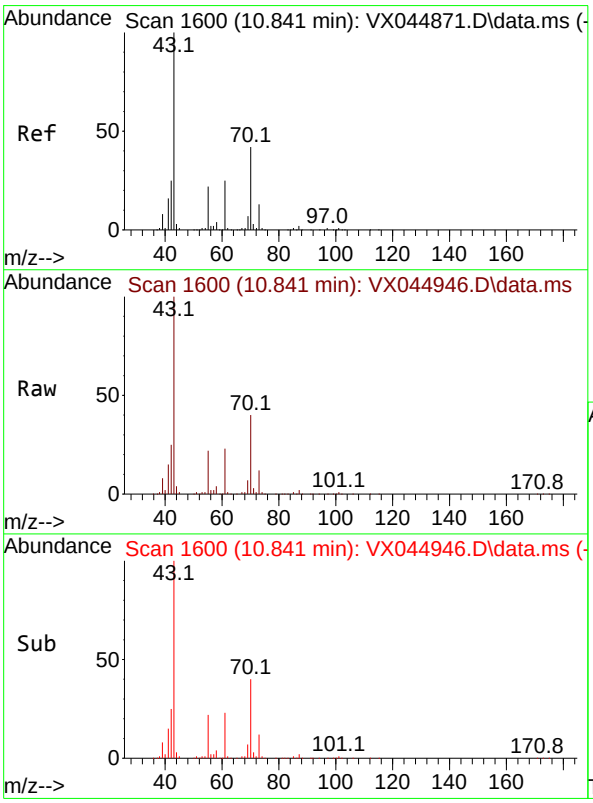
#73
Isopropylbenzene
Concen: 47.243 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 307260

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.2	39.5

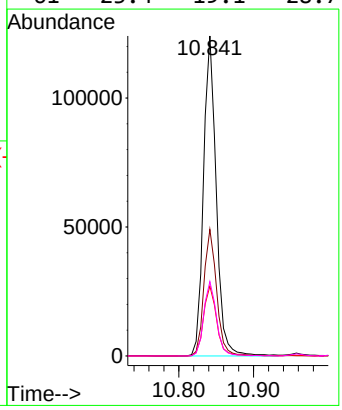


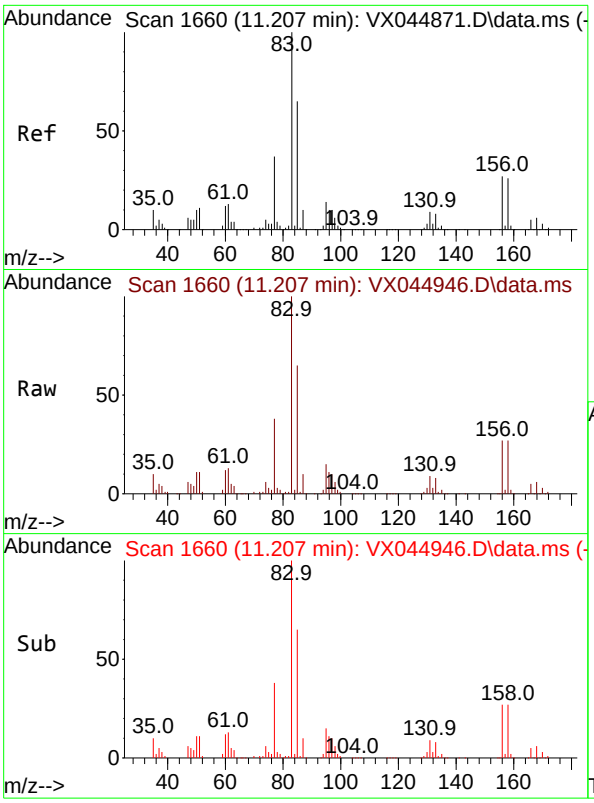


#74
N-amyl acetate
Concen: 49.788 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 43 Resp: 146530

Ion	Ratio	Lower	Upper
43	100		
70	39.9	33.7	50.5
55	22.6	18.6	27.8
61	23.4	19.1	28.7



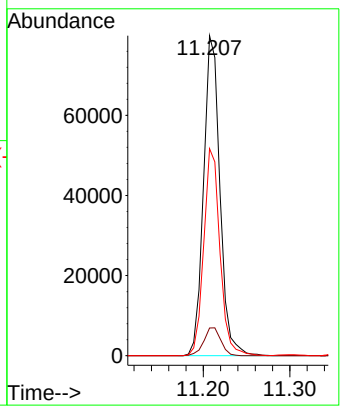


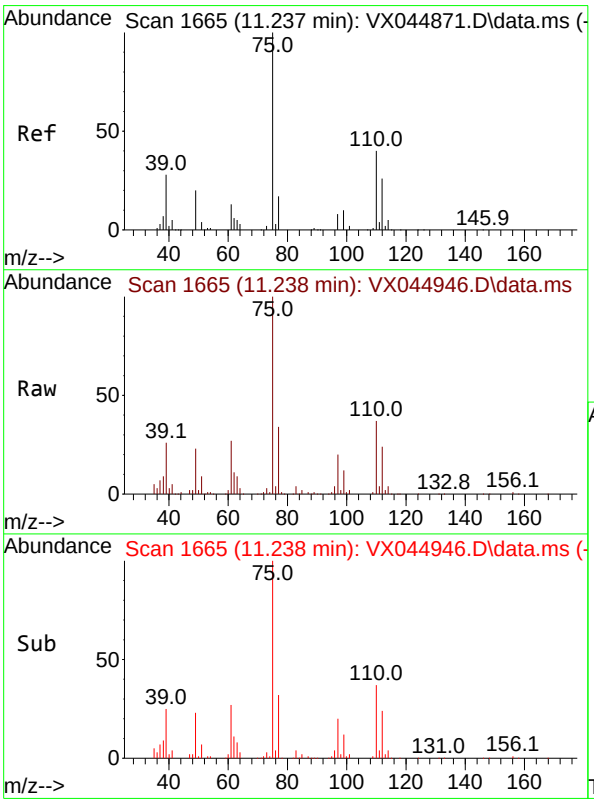
#75
1,1,2,2-Tetrachloroethane
Concen: 46.942 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 104911

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	64.0	32.3	96.8

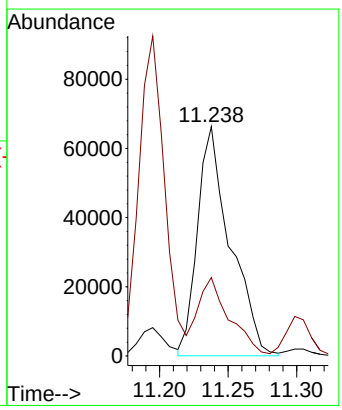


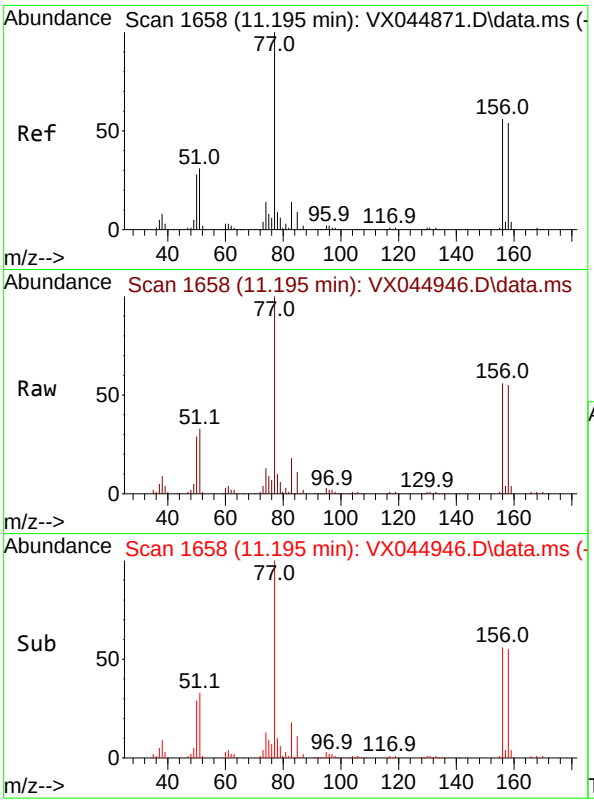


#76
1,2,3-Trichloropropane
Concen: 61.736 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 110562

Ion	Ratio	Lower	Upper
75	100		
77	32.9	21.9	65.7



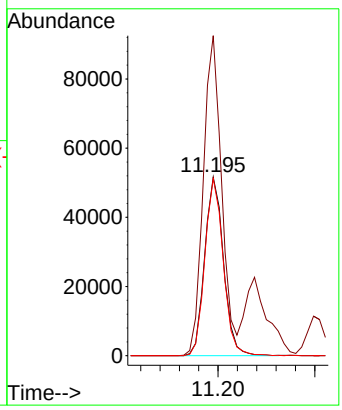


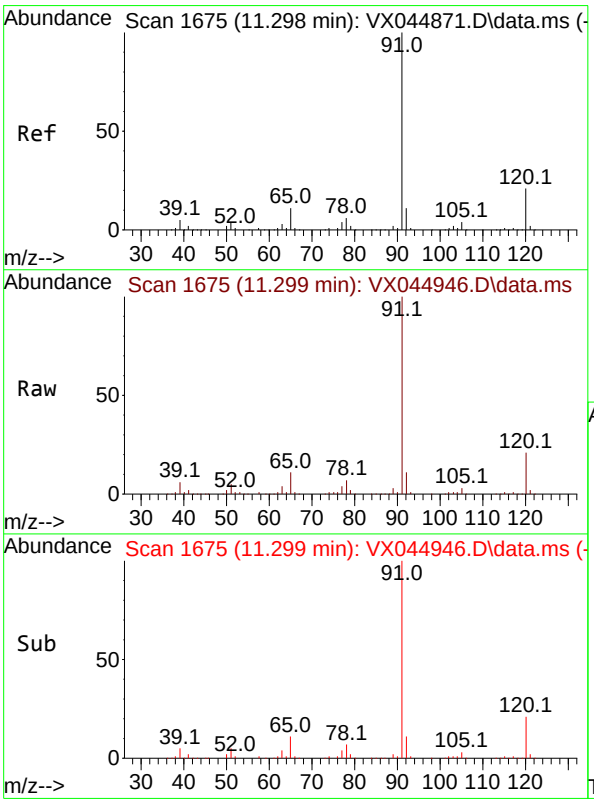
#77
Bromobenzene
Concen: 47.377 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 69858

Ion	Ratio	Lower	Upper
156	100		
77	174.7	88.4	265.3
158	97.3	48.4	145.2

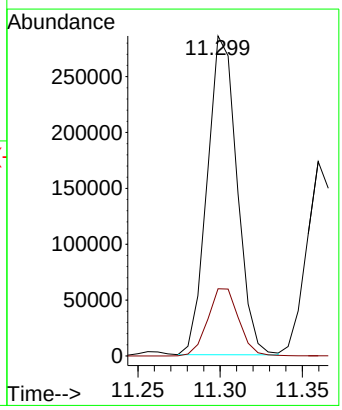


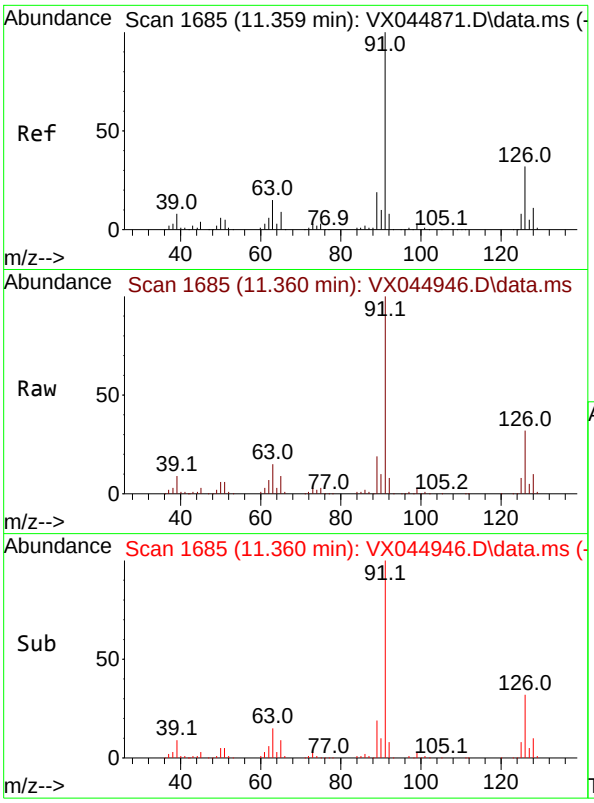


#78
n-propylbenzene
Concen: 47.881 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 91 Resp: 359442

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3



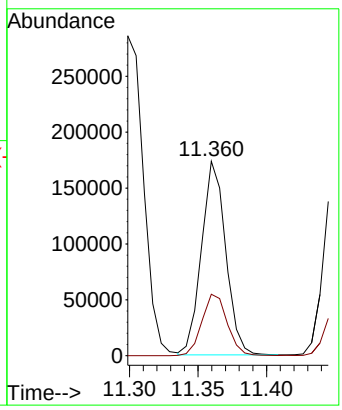


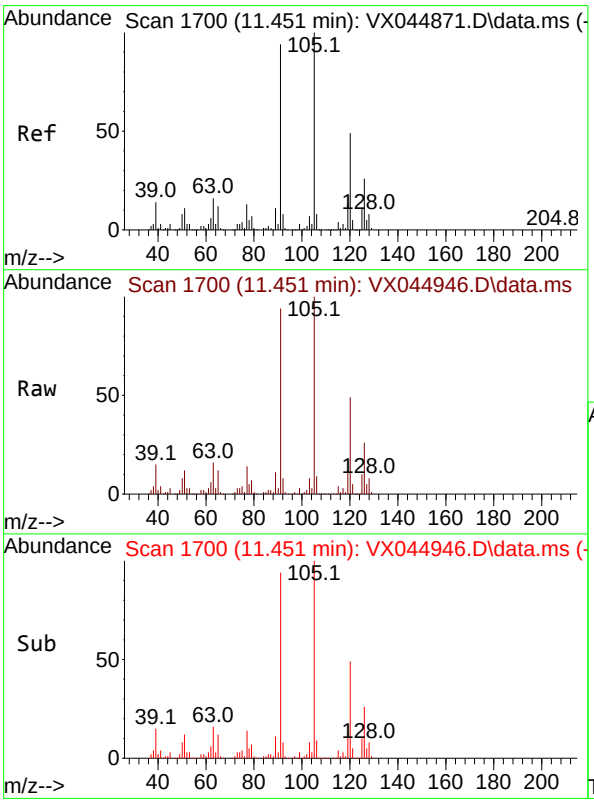
#79
2-Chlorotoluene
Concen: 46.378 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 213977

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.2	48.6

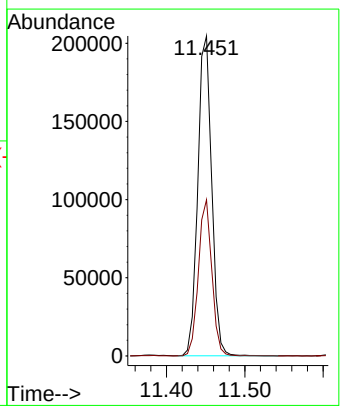


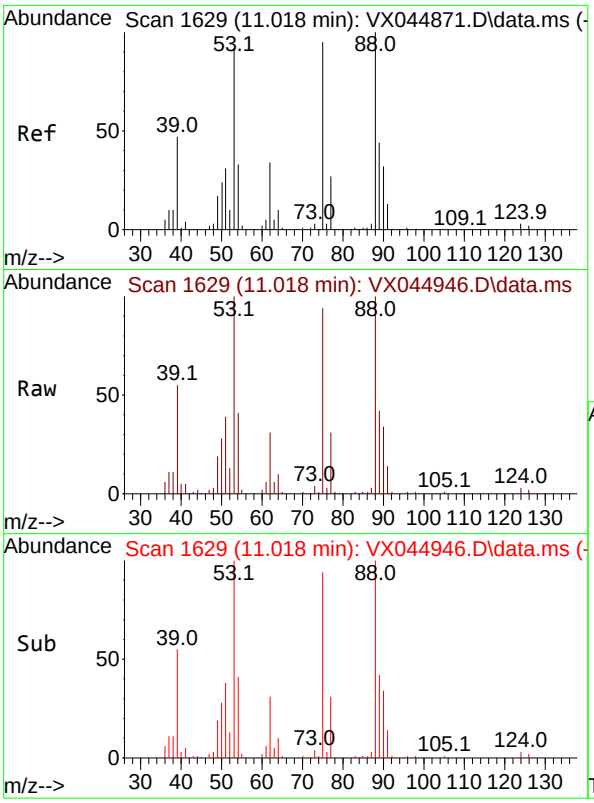


#80
1,3,5-Trimethylbenzene
Concen: 47.801 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:105 Resp: 252288

Ion	Ratio	Lower	Upper
105	100		
120	47.3	24.0	72.0



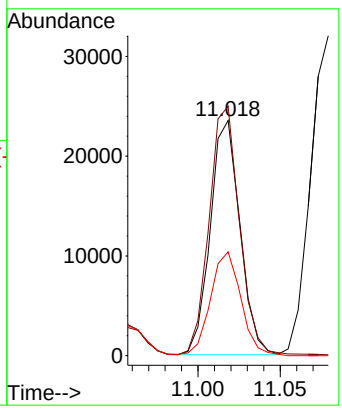


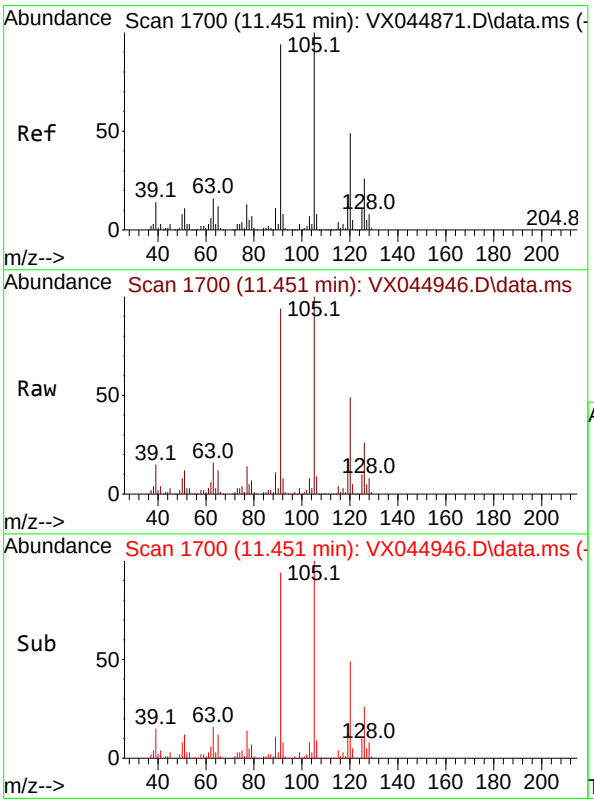
#81
trans-1,4-Dichloro-2-butene
Concen: 42.406 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 29523

Ion	Ratio	Lower	Upper
75	100		
53	109.9	78.0	117.0
89	45.4	36.6	54.8

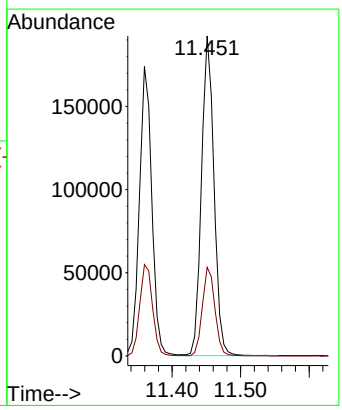


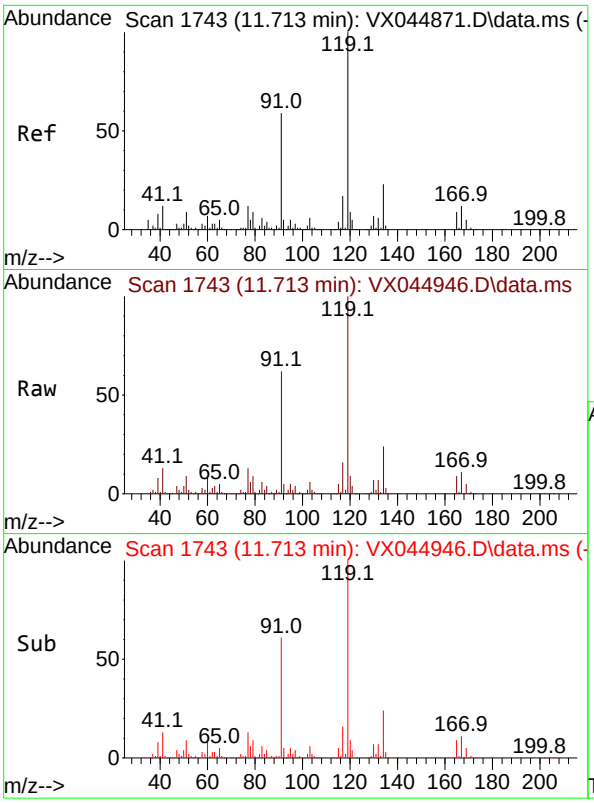


#82
4-Chlorotoluene
Concen: 47.958 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 91 Resp: 244793

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.2	42.6



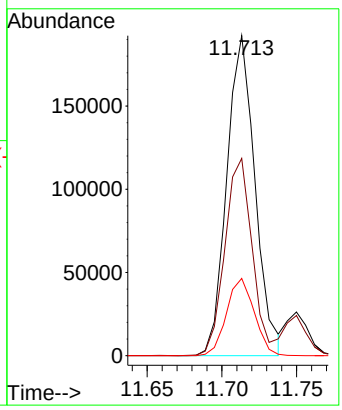


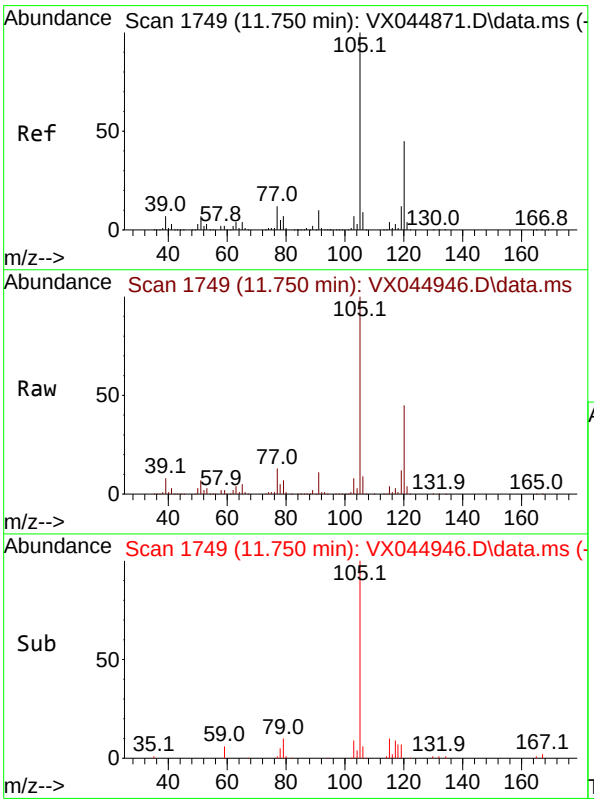
#83
tert-Butylbenzene
Concen: 47.391 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 253035

Ion	Ratio	Lower	Upper
119	100		
91	59.1	29.1	87.4
134	23.7	11.5	34.5

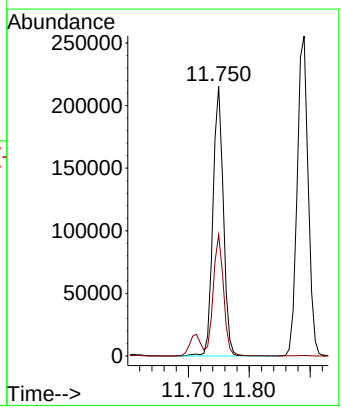


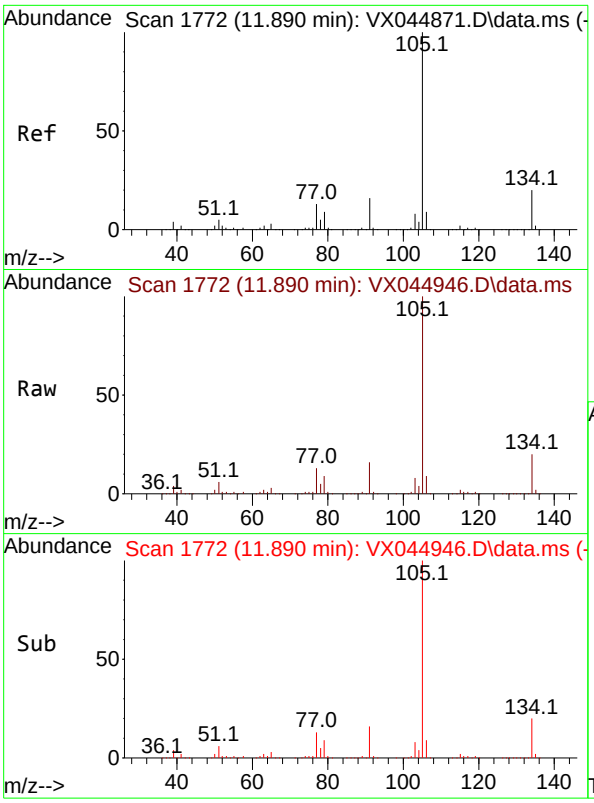


#84
1,2,4-Trimethylbenzene
Concen: 49.150 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:105 Resp: 256030

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.0



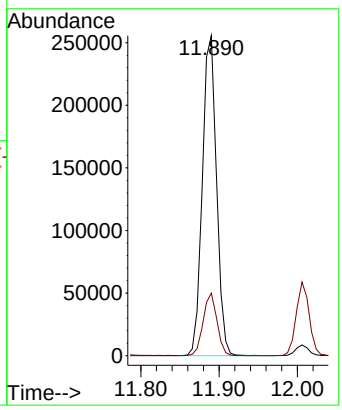


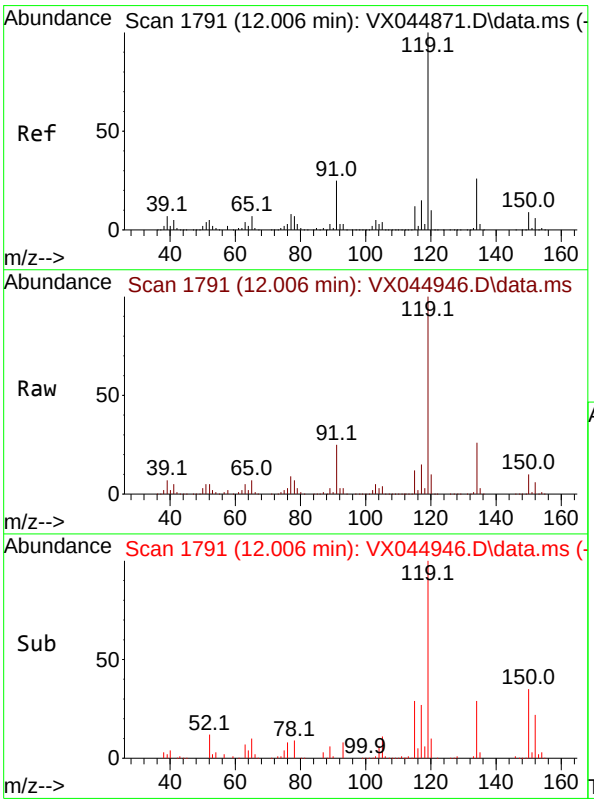
#85
sec-Butylbenzene
Concen: 48.523 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 320813

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.3

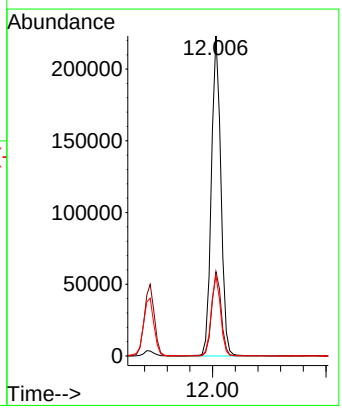


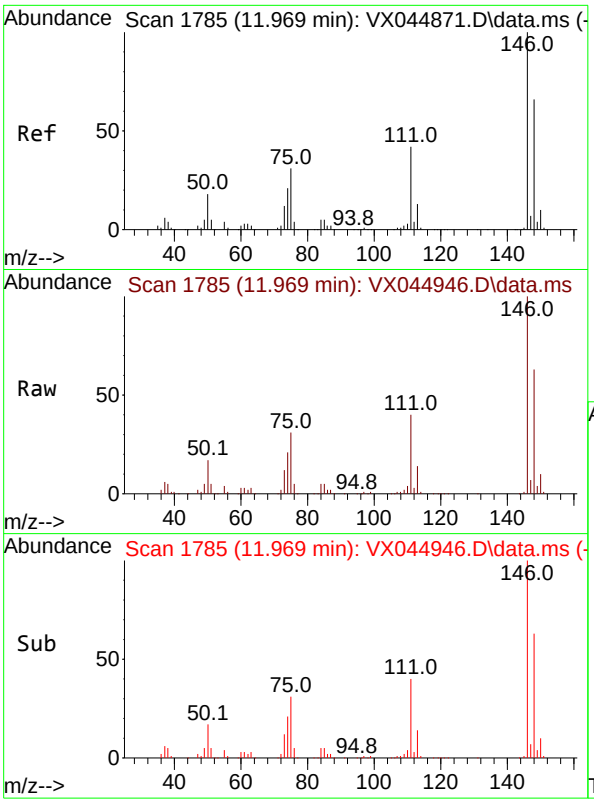


#86
p-Isopropyltoluene
Concen: 48.701 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:119 Resp: 258941

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.0	38.9
91	24.6	12.1	36.3



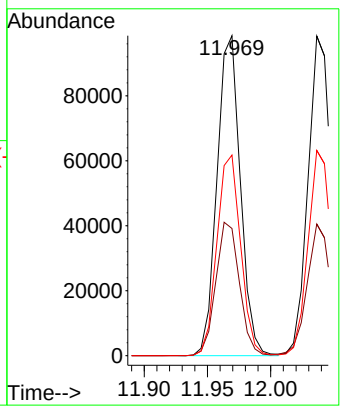


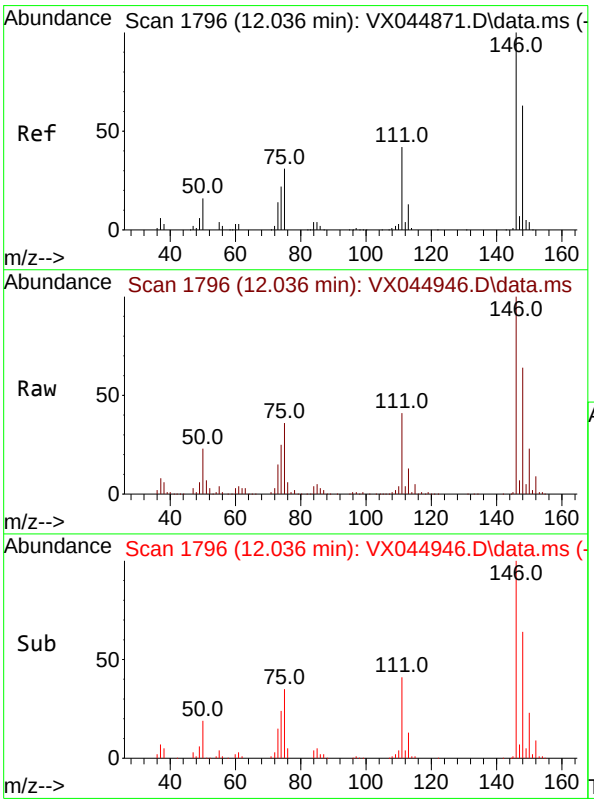
#87
1,3-Dichlorobenzene
Concen: 46.587 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 126325

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.2	63.6
148	63.8	32.5	97.5

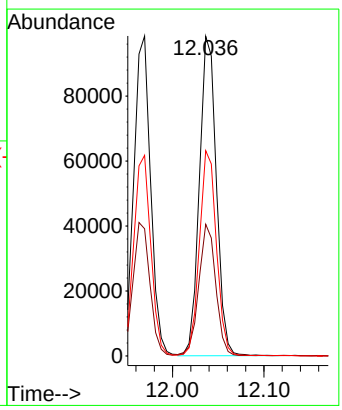


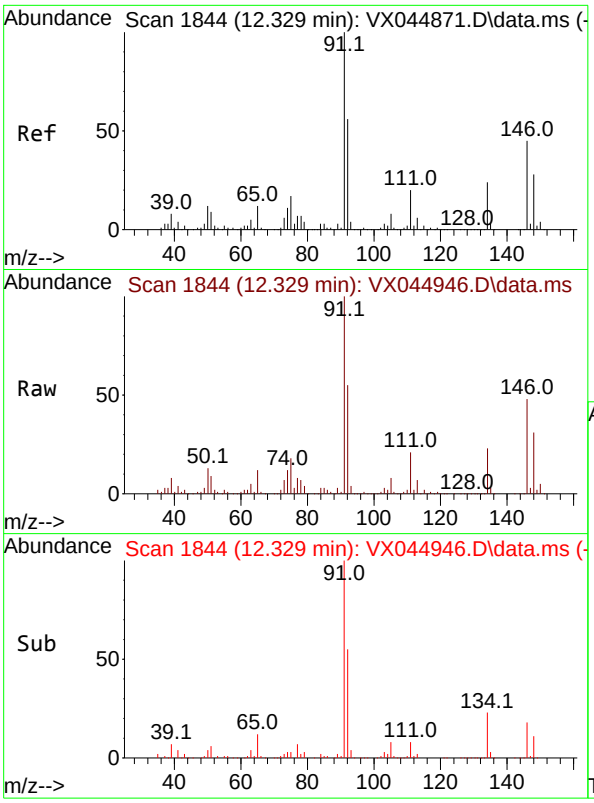


#88
1,4-Dichlorobenzene
Concen: 46.128 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:146 Resp: 126465

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.3
148	64.4	32.0	96.0



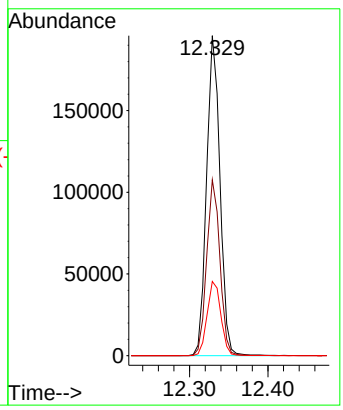


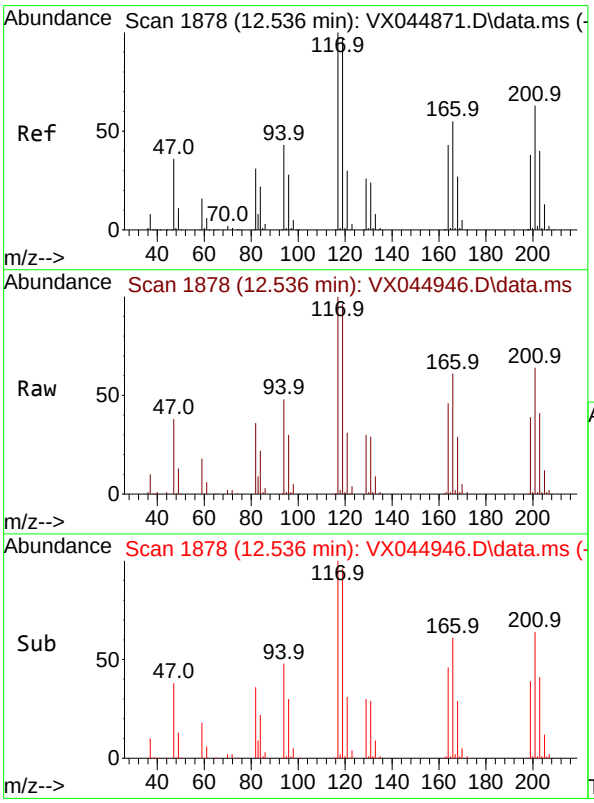
#89
n-Butylbenzene
Concen: 49.233 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 231584

Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.2	81.6
134	24.0	12.1	36.3

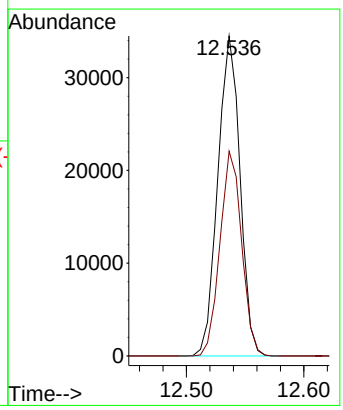


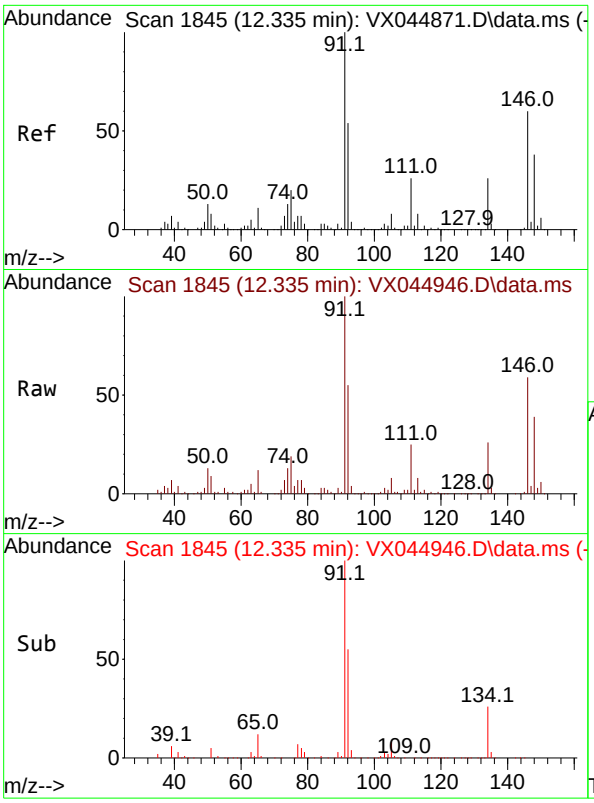


#90
Hexachloroethane
Concen: 45.518 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:117 Resp: 45316

Ion	Ratio	Lower	Upper
117	100		
201	62.6	32.5	97.5



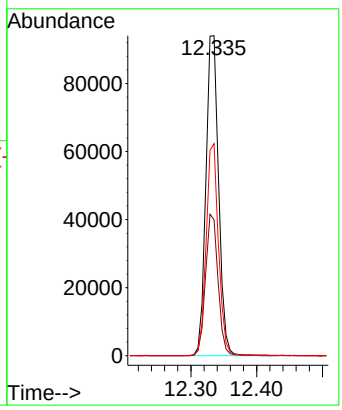


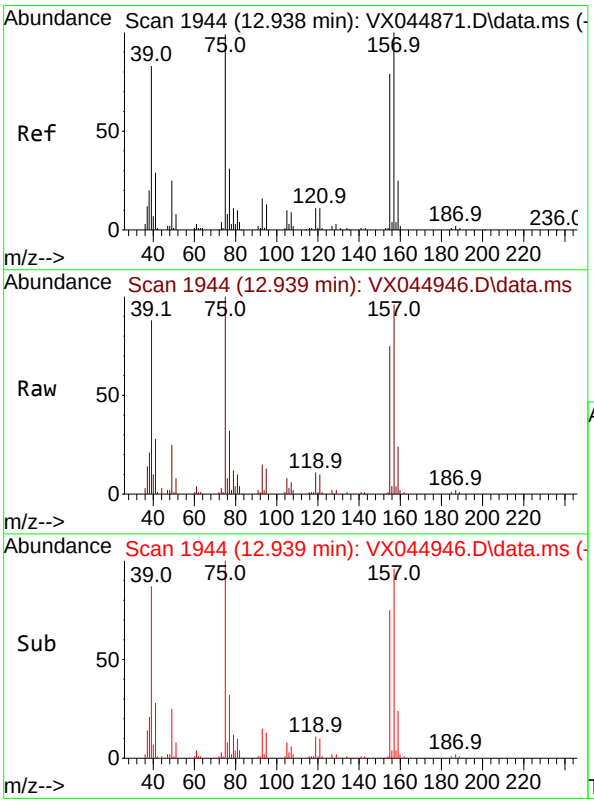
#91
1,2-Dichlorobenzene
Concen: 47.556 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 126735

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.8	65.4
148	64.1	31.9	95.9

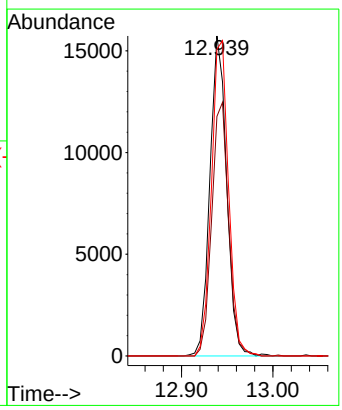


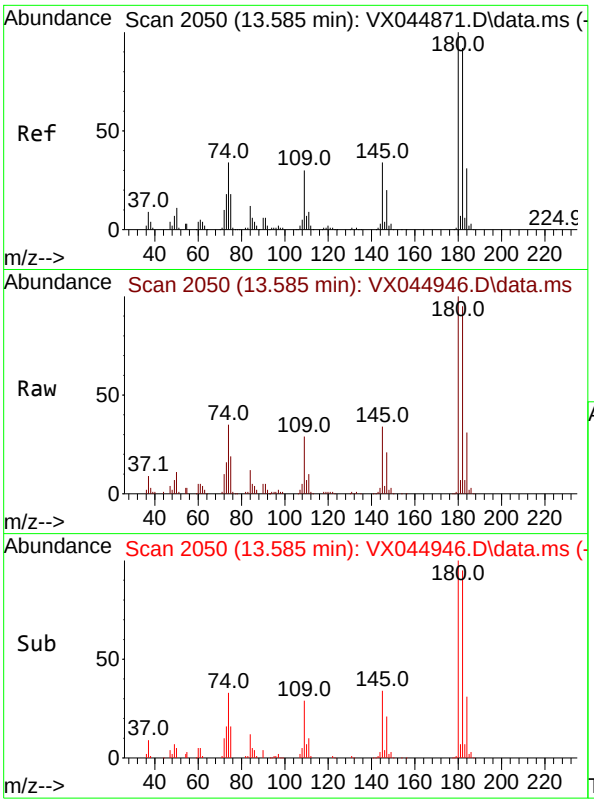


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.133 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion: 75 Resp: 20041

Ion	Ratio	Lower	Upper
75	100		
155	79.6	40.5	121.4
157	100.6	51.4	154.3



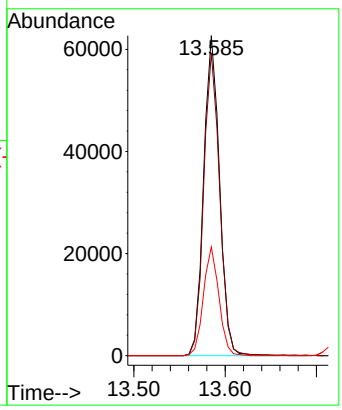


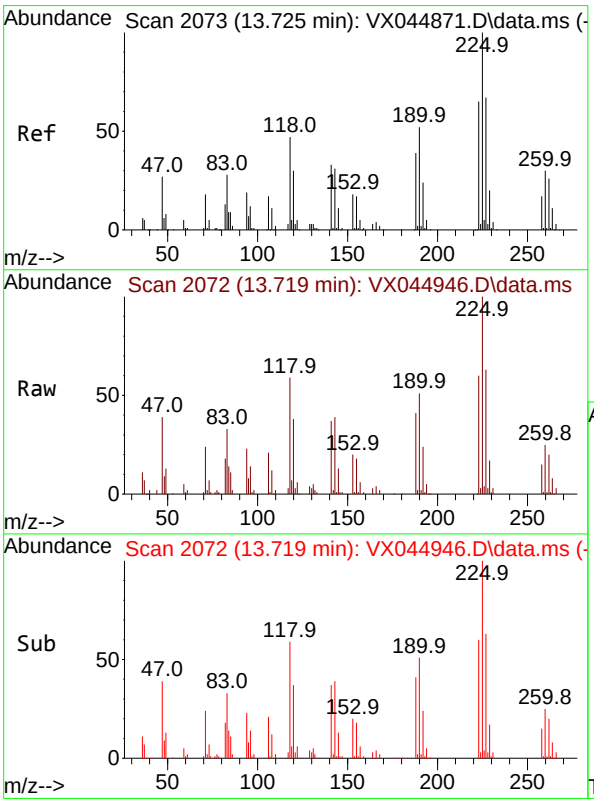
#93
1,2,4-Trichlorobenzene
Concen: 46.804 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 75475

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.6	142.8
145	33.0	16.4	49.1

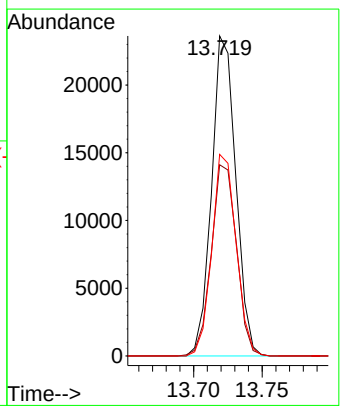


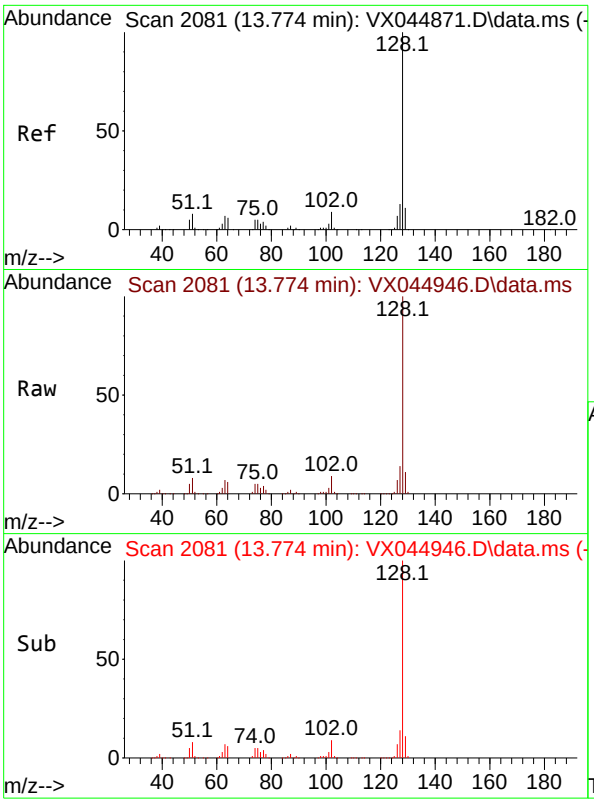


#94
Hexachlorobutadiene
Concen: 45.235 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:225 Resp: 28958

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.4	94.2
227	63.4	32.3	96.8



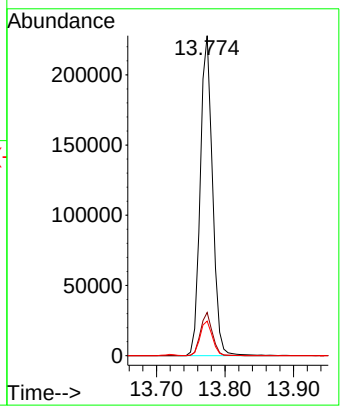


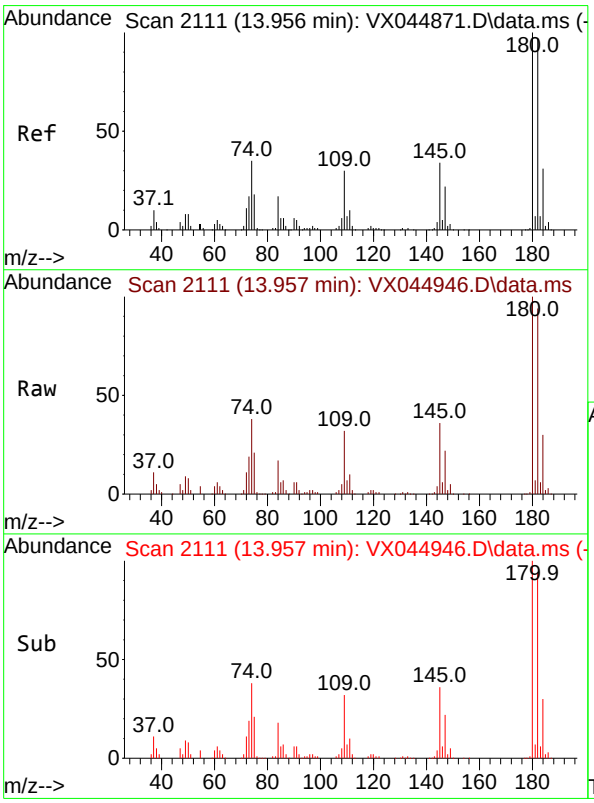
#95
Naphthalene
Concen: 48.767 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 284275

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.1	15.1
129	10.9	8.9	13.3





#96
1,2,3-Trichlorobenzene
Concen: 46.943 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044946.D
Acq: 12 Feb 2025 20:11

Tgt Ion:180 Resp: 76278

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.6
145	34.8	17.1	51.3