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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : P5281

ATTENTION : Eleanor Vivadou

Laboratory Certification ID # 20012

Table Of Contents for P5281

1) VOLATILES DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 7
5) Conformance/Non Conformance 8
6) QA Checklist 10
7) Chronicle 11
8) Hit Summary 12
9) QC Data Summary For VOCMS Group1 15
9.1) Deuterated Monitoring Compound Summary 16
9.2) LCS/LCSD Summary 18
9.3) Method Blank Summary 24
9.4) GS/MS Tune Summary 26
9.5) Internal Standard Area and RT Summary 29
10) Sample Data 33
10.1) RE114D1-20241212 34
10.2) RE114D1-20241212DL 50
10.3) BPOW1-7-20241212 61
10.4) BPOW1-8-20241212 71
10.5) TT101D2-20241212 81
10.6) RE117D1-20241213 92
10.7) RE115D1-20241213 106
10.8) RE115D1-20241213DL 121
10.9) TT189D2-20241213 132
10.10) FB02-20241213 147
10.11) TB 158
11) Calibration Data Summary 169
11.1) Initial Calibration Data 170
11.1.1) VX121124 170
11.2) Continued Calibration Data 543
11.2.1) VX044375.D 543
11.2.2) VX044395.D 603
11.2.3) VX044438.D 663
11.2.4) VX044464.D 723
12) QC Sample Data 783

12.1) Tune Raw Data 784
12.2) Method Blank Data 787
12.3) LCS Data 805
12.4) LCSD Data 915
13) Manual Integration 970
14) Analytical Runlogs 974
15) Standard Prep Logs 987
16) Shipping Document 1087
16.1) Chain Of Custody 1088
16.2) Lab Certificate 1089
16.3) Internal COC 1090
17) Not Reviewed Data 1092

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : P5281

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
P5281-01	RE114D1-20241212
P5281-02	BPOW1-7-20241212
P5281-03	BPOW1-8-20241212
P5281-04	TT101D2-20241212
P5281-05	RE117D1-20241213
P5281-06	RE115D1-20241213
P5281-07	TT189D2-20241213
P5281-08	FB02-20241213
P5281-09	TB

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

Signature : _____

Date: 12/26/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

AECOM Technical Services, Inc.
Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Project # N/A
Chemtech Project # P5281
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
9 Water samples were received on 12/13/2024.

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 performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 was based on method 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 (82X121124W.M) for t-1,3-Dichloropropene, Dibromochloromethane, Bromoform These compounds are passing on Quadratic Regression.

The Continuous Calibration File ID VX044438.D met the requirements except for Methylcyclohexane failing high but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.
Samples TT101D2-20241212 was analyzed with straight 40X dilution due to samples past history of high concentration of Trichloroethene.
Samples RE114D1-20241212, RE115D1-20241213 were diluted due to high concentrations.

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E. Additional Comments:
The Sample #RE114D1-20241212, BPOW1-8-20241212, TT101D2-20241212, RE117D1-20241213, RE115D1-20241213, RE115D1-20241213DL, TT189D2-20241213 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

Signature_____

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

QA Control # A3040960

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5281 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 (82X121124W.M) for t-1,3-Dichloropropene, Dibromochloromethane, Bromoform These compounds are passing on Quadratic Regression. The Continuous Calibration File ID VX044438.D met the requirements except for Methylcyclohexane failing high but no positive hit in associated samples therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

Samples TT101D2-20241212 was analyzed with straight 40X dilution due to samples past history of high concentration of Trichloroethene.

Samples RE114D1-20241212, RE115D1-20241213 were diluted due to high concentrations.

The Sample #RE114D1-20241212, BPOW1-8-20241212, TT101D2-20241212, RE117D1-20241213, RE115D1-20241213, RE115D1-20241213DL, TT189D2-20241213 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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.

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5281

	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:** 12/26/2024

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LAB CHRONICLE

OrderID:	P5281	**OrderDate:**	12/13/2024 1:05:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5281-01	**RE114D1-20241212**	**Water**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/18/24	
P5281-01DL	**RE114D1-20241212DL**	**Water**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/20/24	
P5281-02	**BPOW1-7-20241212**	**Water**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/20/24	
P5281-03	**BPOW1-8-20241212**	**Water**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/18/24	
P5281-04	**TT101D2-20241212**	**Water**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/18/24	
P5281-05	**RE117D1-20241213**	**Water**			**12/13/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/18/24	
P5281-06	**RE115D1-20241213**	**Water**			**12/13/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/18/24	
P5281-06DL	**RE115D1-20241213DL**	**Water**			**12/13/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/20/24	
P5281-07	**TT189D2-20241213**	**Water**			**12/13/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/18/24	
P5281-08	**FB02-20241213**	**Water**			**12/13/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/18/24	
P5281-09	**TB**	**Water**			**12/13/24**			**12/13/24**
			VOCMS Group1	8260-Low			12/18/24	

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Hit Summary Sheet
SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**RE114D1-20241212**								
P5281-01	RE114D1-20241212	Water	Dichlorodifluoromethane	1.00		0.21	0.50	1.00	ug/L
P5281-01	RE114D1-20241212	Water	1,1,2-Trichlorotrifluoroethane	21.7		0.25	0.50	1.00	ug/L
P5281-01	RE114D1-20241212	Water	1,1-Dichloroethene	3.50		0.26	0.75	1.00	ug/L
P5281-01	RE114D1-20241212	Water	1,1-Dichloroethane	0.97	J	0.23	0.50	1.00	ug/L
P5281-01	RE114D1-20241212	Water	Carbon Tetrachloride	1.80		0.25	0.50	1.00	ug/L
P5281-01	RE114D1-20241212	Water	cis-1,2-Dichloroethene	3.60		0.25	0.75	1.00	ug/L
P5281-01	RE114D1-20241212	Water	Chloroform	1.90		0.26	0.50	1.00	ug/L
P5281-01	RE114D1-20241212	Water	Trichloroethene	390	E	0.32	0.75	1.00	ug/L
P5281-01	RE114D1-20241212	Water	1,1,2-Trichloroethane	1.40		0.21	0.50	1.00	ug/L
P5281-01	RE114D1-20241212	Water	m/p-Xylenes	0.34	J	0.31	1.00	2.00	ug/L
			Total Voc :	426					
			Total Concentration:	426					
Client ID:	**RE114D1-20241212DL**								
P5281-01DL	RE114D1-20241212	Water	1,1,2-Trichlorotrifluoroethane	23.0	D	2.50	5.00	10.0	ug/L
P5281-01DL	RE114D1-20241212	Water	1,1-Dichloroethene	3.80	JD	2.60	7.50	10.0	ug/L
P5281-01DL	RE114D1-20241212	Water	cis-1,2-Dichloroethene	3.40	JD	2.50	7.50	10.0	ug/L
P5281-01DL	RE114D1-20241212	Water	Trichloroethene	410	D	3.20	7.50	10.0	ug/L
			Total Voc :	440					
			Total Concentration:	440					
Client ID:	**BPOW1-7-20241212**								
P5281-02	BPOW1-7-2024121	Water	Trichloroethene	0.61	J	0.32	0.75	1.00	ug/L
			Total Voc :	0.61					
			Total Concentration:	0.61					
Client ID:	**BPOW1-8-20241212**								
P5281-03	BPOW1-8-2024121	Water	Trichloroethene	0.59	J	0.32	0.75	1.00	ug/L
			Total Voc :	0.59					
			Total Concentration:	0.59					
Client ID:	**TT101D2-20241212**								
P5281-04	TT101D2-20241212	Water	1,1,2-Trichlorotrifluoroethane	32.4	J	10.0	20.0	40.0	ug/L
P5281-04	TT101D2-20241212	Water	1,1-Dichloroethene	13.2	J	10.4	30.0	40.0	ug/L
P5281-04	TT101D2-20241212	Water	Trichloroethene	1600		12.8	30.0	40.0	ug/L
			Total Voc :	1650					
			Total Concentration:	1650					
Client ID:	**RE117D1-20241213**								
P5281-05	RE117D1-20241213	Water	1,1,2-Trichlorotrifluoroethane	0.89	J	0.25	0.50	1.00	ug/L
P5281-05	RE117D1-20241213	Water	1,1-Dichloroethene	1.30		0.26	0.75	1.00	ug/L
P5281-05	RE117D1-20241213	Water	Carbon Tetrachloride	1.60		0.25	0.50	1.00	ug/L
P5281-05	RE117D1-20241213	Water	cis-1,2-Dichloroethene	1.20		0.25	0.75	1.00	ug/L

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P5281-05	RE117D1-20241213	Water	Chloroform	0.44	J	0.26	0.50	1.00	ug/L
P5281-05	RE117D1-20241213	Water	Trichloroethene	130		0.32	0.75	1.00	ug/L
P5281-05	RE117D1-20241213	Water	1,1,2-Trichloroethane	0.61	J	0.21	0.50	1.00	ug/L
			Total Voc :	136					
			Total Concentration:	136					
Client ID:	**RE115D1-20241213**								
P5281-06	RE115D1-20241213	Water	Dichlorodifluoromethane	1.30		0.21	0.50	1.00	ug/L
P5281-06	RE115D1-20241213	Water	1,1,2-Trichlorotrifluoroethane	23.4		0.25	0.50	1.00	ug/L
P5281-06	RE115D1-20241213	Water	1,1-Dichloroethene	10.1		0.26	0.75	1.00	ug/L
P5281-06	RE115D1-20241213	Water	Methylene Chloride	0.41	J	0.32	0.50	1.00	ug/L
P5281-06	RE115D1-20241213	Water	1,1-Dichloroethane	1.30		0.23	0.50	1.00	ug/L
P5281-06	RE115D1-20241213	Water	Carbon Tetrachloride	2.90		0.25	0.50	1.00	ug/L
P5281-06	RE115D1-20241213	Water	cis-1,2-Dichloroethene	2.70		0.25	0.75	1.00	ug/L
P5281-06	RE115D1-20241213	Water	Chloroform	1.70		0.26	0.50	1.00	ug/L
P5281-06	RE115D1-20241213	Water	Trichloroethene	540	E	0.32	0.75	1.00	ug/L
P5281-06	RE115D1-20241213	Water	1,1,2-Trichloroethane	1.10		0.21	0.50	1.00	ug/L
P5281-06	RE115D1-20241213	Water	Tetrachloroethene	0.45	J	0.25	0.50	1.00	ug/L
			Total Voc :	585					
			Total Concentration:	585					
Client ID:	**RE115D1-20241213DL**								
P5281-06DL	RE115D1-20241213	Water	1,1,2-Trichlorotrifluoroethane	32.6	D	5.00	10.0	20.0	ug/L
P5281-06DL	RE115D1-20241213	Water	1,1-Dichloroethene	11.9	JD	5.20	15.0	20.0	ug/L
P5281-06DL	RE115D1-20241213	Water	Trichloroethene	670	D	6.40	15.0	20.0	ug/L
			Total Voc :	715					
			Total Concentration:	715					
Client ID:	**TT189D2-20241213**								
P5281-07	TT189D2-20241213	Water	Dichlorodifluoromethane	0.54	J	0.21	0.50	1.00	ug/L
P5281-07	TT189D2-20241213	Water	Chloromethane	0.54	J	0.35	0.50	1.00	ug/L
P5281-07	TT189D2-20241213	Water	1,1,2-Trichlorotrifluoroethane	21.4		0.25	0.50	1.00	ug/L
P5281-07	TT189D2-20241213	Water	1,1-Dichloroethene	1.20		0.26	0.75	1.00	ug/L
P5281-07	TT189D2-20241213	Water	Acetone	1.90	J	1.40	3.80	5.00	ug/L
P5281-07	TT189D2-20241213	Water	Carbon Tetrachloride	0.50	J	0.25	0.50	1.00	ug/L
P5281-07	TT189D2-20241213	Water	cis-1,2-Dichloroethene	2.80		0.25	0.75	1.00	ug/L
P5281-07	TT189D2-20241213	Water	Chloroform	0.42	J	0.26	0.50	1.00	ug/L
P5281-07	TT189D2-20241213	Water	Trichloroethene	94.8		0.32	0.75	1.00	ug/L
P5281-07	TT189D2-20241213	Water	Tetrachloroethene	0.39	J	0.25	0.50	1.00	ug/L
			Total Voc :	124					
			Total Concentration:	124					

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Hit Summary Sheet
SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**FB02-20241213**								
P5281-08	FB02-20241213	Water	Acetone	2.60	J	1.40	3.80	5.00	ug/L
P5281-08	FB02-20241213	Water	Methylene Chloride	0.33	J	0.32	0.50	1.00	ug/L
P5281-08	FB02-20241213	Water	2-Butanone	2.20	J	1.30	2.50	5.00	ug/L
P5281-08	FB02-20241213	Water	Trichloroethene	0.40	J	0.32	0.75	1.00	ug/L
			Total Voc :	5.53					
			Total Concentration:	5.53					
Client ID:	**TB**								
P5281-09	TB	Water	Chloromethane	0.58	J	0.35	0.50	1.00	ug/L
P5281-09	TB	Water	Acetone	1.50	J	1.40	3.80	5.00	ug/L
P5281-09	TB	Water	Methylene Chloride	0.45	J	0.32	0.50	1.00	ug/L
			Total Voc :	2.53					
			Total Concentration:	2.53					

QC SUMMARY

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Surrogate Summary

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5281-01	RE114D1-20241212	1,2-Dichloroethane-d4	50	45.2	90	81	118
		Dibromofluoromethane	50	47.8	96	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	48.8	98	85	114
P5281-01DL	RE114D1-20241212DL	1,2-Dichloroethane-d4	50	42.9	86	81	118
		Dibromofluoromethane	50	48.3	97	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
P5281-02	BPOW1-7-20241212	1,2-Dichloroethane-d4	50	42.4	85	81	118
		Dibromofluoromethane	50	47.4	95	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	43.8	88	85	114
P5281-03	BPOW1-8-20241212	1,2-Dichloroethane-d4	50	44.5	89	81	118
		Dibromofluoromethane	50	47.0	94	80	119
		Toluene-d8	50	51.6	103	89	112
		4-Bromofluorobenzene	50	47.8	96	85	114
P5281-04	TT101D2-20241212	1,2-Dichloroethane-d4	50	43.6	87	81	118
		Dibromofluoromethane	50	47.1	94	80	119
		Toluene-d8	50	52.2	104	89	112
		4-Bromofluorobenzene	50	47.4	95	85	114
P5281-05	RE117D1-20241213	1,2-Dichloroethane-d4	50	44.9	90	81	118
		Dibromofluoromethane	50	47.0	94	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	45.8	92	85	114
P5281-06	RE115D1-20241213	1,2-Dichloroethane-d4	50	43.0	86	81	118
		Dibromofluoromethane	50	46.9	94	80	119
		Toluene-d8	50	50.6	101	89	112
		4-Bromofluorobenzene	50	46.0	92	85	114
P5281-06DL	RE115D1-20241213DL	1,2-Dichloroethane-d4	50	42.6	85	81	118
		Dibromofluoromethane	50	46.1	92	80	119
		Toluene-d8	50	50.3	101	89	112
		4-Bromofluorobenzene	50	45.6	91	85	114
P5281-07	TT189D2-20241213	1,2-Dichloroethane-d4	50	44.0	88	81	118
		Dibromofluoromethane	50	46.0	92	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	46.8	94	85	114
P5281-08	FB02-20241213	1,2-Dichloroethane-d4	50	44.8	90	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	46.2	92	85	114
P5281-09	TB	1,2-Dichloroethane-d4	50	43.7	87	81	118
		Dibromofluoromethane	50	46.4	93	80	119
		Toluene-d8	50	51.8	104	89	112
		4-Bromofluorobenzene	50	45.3	91	85	114
VX1218WBL01	VX1218WBL01	1,2-Dichloroethane-d4	50	45.6	91	81	118
		Dibromofluoromethane	50	47.1	94	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	47.2	94	85	114
VX1218WBS01	VX1218WBS01	1,2-Dichloroethane-d4	50	47.2	94	81	118
		Dibromofluoromethane	50	50.5	101	80	119

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Surrogate Summary

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX1218WBS01	VX1218WBS01	Toluene-d8	50	50.8	102	89	112
		4-Bromofluorobenzene	50	48.2	96	85	114
VX1218WBSD0	VX1218WBSD01	1,2-Dichloroethane-d4	50	46.8	94	81	118
		Dibromofluoromethane	50	49.7	99	80	119
		Toluene-d8	50	50.6	101	89	112
		4-Bromofluorobenzene	50	50.6	101	85	114
VX1220WBL01	VX1220WBL01	1,2-Dichloroethane-d4	50	44.1	88	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	52.0	104	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
VX1220WBS01	VX1220WBS01	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	48.5	97	80	119
		Toluene-d8	50	48.7	97	89	112
		4-Bromofluorobenzene	50	46.4	93	85	114

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044378.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1218WBS01	Dichlorodifluoromethane	20	19.9	ug/L	100			32	152	
	Chloromethane	20	19.9	ug/L	100			50	139	
	Vinyl chloride	20	19.5	ug/L	98			58	137	
	Bromomethane	20	17.2	ug/L	86			53	141	
	Chloroethane	20	21.1	ug/L	106			60	138	
	Trichlorofluoromethane	20	15.8	ug/L	79			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.8	ug/L	94			70	136	
	1,1-Dichloroethene	20	19.7	ug/L	99			71	131	
	Acetone	100	80.4	ug/L	80			39	160	
	Carbon disulfide	20	19.1	ug/L	96			64	133	
	Methyl tert-butyl Ether	20	18.4	ug/L	92			71	124	
	Methyl Acetate	20	18.5	ug/L	93			56	136	
	Methylene Chloride	20	19.7	ug/L	99			74	124	
	trans-1,2-Dichloroethene	20	19.2	ug/L	96			75	124	
	1,1-Dichloroethane	20	19.6	ug/L	98			77	125	
	Cyclohexane	20	19.2	ug/L	96			71	130	
	2-Butanone	100	89.3	ug/L	89			56	143	
	Carbon Tetrachloride	20	18.4	ug/L	92			72	136	
	cis-1,2-Dichloroethene	20	18.9	ug/L	95			78	123	
	Bromochloromethane	20	17.5	ug/L	88			78	123	
	Chloroform	20	18.7	ug/L	94			79	124	
	1,1,1-Trichloroethane	20	18.7	ug/L	94			74	131	
	Methylcyclohexane	20	19.4	ug/L	97			72	132	
	Benzene	20	20.1	ug/L	101			79	120	
	1,2-Dichloroethane	20	18.9	ug/L	95			73	128	
	Trichloroethene	20	19.1	ug/L	96			79	123	
	1,2-Dichloropropane	20	19.3	ug/L	97			78	122	
	Bromodichloromethane	20	18.8	ug/L	94			79	125	
	4-Methyl-2-Pentanone	100	94.8	ug/L	95			67	130	
	Toluene	20	19.4	ug/L	97			80	121	
	t-1,3-Dichloropropene	20	18.8	ug/L	94			73	127	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			75	124	
	1,1,2-Trichloroethane	20	19.3	ug/L	97			80	119	
	2-Hexanone	100	93.3	ug/L	93			57	139	
	Dibromochloromethane	20	18.3	ug/L	92			74	126	
	1,2-Dibromoethane	20	19.9	ug/L	100			77	121	
	Tetrachloroethene	20	19.6	ug/L	98			74	129	
	Chlorobenzene	20	19.5	ug/L	98			82	118	
	Ethyl Benzene	20	19.3	ug/L	97			79	121	
	m/p-Xylenes	40	39.3	ug/L	98			80	121	
	o-Xylene	20	19.2	ug/L	96			78	122	
	Styrene	20	19.4	ug/L	97			78	123	
	Bromoform	20	18.7	ug/L	94			66	130	
	Isopropylbenzene	20	20.4	ug/L	102			72	131	
	1,1,2,2-Tetrachloroethane	20	19.9	ug/L	100			71	121	
	1,3-Dichlorobenzene	20	19.8	ug/L	99			80	119	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			79	118	
	1,2-Dichlorobenzene	20	19.0	ug/L	95			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044378.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1218WBS01	1,2-Dibromo-3-Chloropropane	20	17.5	ug/L	88			62	128	
	1,2,4-Trichlorobenzene	20	19.2	ug/L	96			69	130	
	1,2,3-Trichlorobenzene	20	19.7	ug/L	99			69	129	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044379.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1218WBSD01	Dichlorodifluoromethane	20	19.8	ug/L	99	1		32	152	20
	Chloromethane	20	19.1	ug/L	96	4		50	139	20
	Vinyl chloride	20	18.8	ug/L	94	4		58	137	20
	Bromomethane	20	17.1	ug/L	86	0		53	141	20
	Chloroethane	20	21.6	ug/L	108	2		60	138	20
	Trichlorofluoromethane	20	15.8	ug/L	79	0		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.2	ug/L	96	2		70	136	20
	1,1-Dichloroethene	20	19.6	ug/L	98	1		71	131	20
	Acetone	100	79.6	ug/L	80	0		39	160	20
	Carbon disulfide	20	18.8	ug/L	94	2		64	133	20
	Methyl tert-butyl Ether	20	18.9	ug/L	95	3		71	124	20
	Methyl Acetate	20	18.7	ug/L	94	1		56	136	20
	Methylene Chloride	20	18.8	ug/L	94	5		74	124	20
	trans-1,2-Dichloroethene	20	18.5	ug/L	93	3		75	124	20
	1,1-Dichloroethane	20	18.7	ug/L	94	4		77	125	20
	Cyclohexane	20	19.0	ug/L	95	1		71	130	20
	2-Butanone	100	90.9	ug/L	91	2		56	143	20
	Carbon Tetrachloride	20	18.7	ug/L	94	2		72	136	20
	cis-1,2-Dichloroethene	20	18.2	ug/L	91	4		78	123	20
	Bromochloromethane	20	17.4	ug/L	87	1		78	123	20
	Chloroform	20	18.2	ug/L	91	3		79	124	20
	1,1,1-Trichloroethane	20	18.0	ug/L	90	4		74	131	20
	Methylcyclohexane	20	21.5	ug/L	108	11		72	132	20
	Benzene	20	20.2	ug/L	101	0		79	120	20
	1,2-Dichloroethane	20	19.8	ug/L	99	4		73	128	20
	Trichloroethene	20	19.4	ug/L	97	1		79	123	20
	1,2-Dichloropropane	20	19.3	ug/L	97	0		78	122	20
	Bromodichloromethane	20	19.6	ug/L	98	4		79	125	20
	4-Methyl-2-Pentanone	100	97.7	ug/L	98	3		67	130	20
	Toluene	20	19.8	ug/L	99	2		80	121	20
	t-1,3-Dichloropropene	20	19.8	ug/L	99	5		73	127	20
	cis-1,3-Dichloropropene	20	20.4	ug/L	102	4		75	124	20
	1,1,2-Trichloroethane	20	20.2	ug/L	101	4		80	119	20
	2-Hexanone	100	98.6	ug/L	99	6		57	139	20
	Dibromochloromethane	20	18.9	ug/L	95	3		74	126	20
	1,2-Dibromoethane	20	20.5	ug/L	103	3		77	121	20
	Tetrachloroethene	20	19.2	ug/L	96	2		74	129	20
	Chlorobenzene	20	19.6	ug/L	98	0		82	118	20
	Ethyl Benzene	20	19.2	ug/L	96	1		79	121	20
	m/p-Xylenes	40	39.5	ug/L	99	1		80	121	20
	o-Xylene	20	19.3	ug/L	97	1		78	122	20
	Styrene	20	19.7	ug/L	99	2		78	123	20
	Bromoform	20	18.9	ug/L	95	1		66	130	20
	Isopropylbenzene	20	19.8	ug/L	99	3		72	131	20
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98	2		71	121	20
	1,3-Dichlorobenzene	20	19.9	ug/L	100	1		80	119	20
	1,4-Dichlorobenzene	20	19.1	ug/L	96	2		79	118	20
	1,2-Dichlorobenzene	20	19.1	ug/L	96	1		80	119	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044379.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1218WBSD01	1,2-Dibromo-3-Chloropropane	20	16.4	ug/L	82	7		62	128	20
	1,2,4-Trichlorobenzene	20	19.3	ug/L	97	1		69	130	20
	1,2,3-Trichlorobenzene	20	20.4	ug/L	102	3		69	129	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1220WBS01	Dichlorodifluoromethane	20	18.5	ug/L	93			32	152	
	Chloromethane	20	18.7	ug/L	94			50	139	
	Vinyl chloride	20	17.9	ug/L	90			58	137	
	Bromomethane	20	18.8	ug/L	94			53	141	
	Chloroethane	20	19.8	ug/L	99			60	138	
	Trichlorofluoromethane	20	15.3	ug/L	77			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70	136	
	1,1-Dichloroethene	20	18.9	ug/L	95			71	131	
	Acetone	100	75.7	ug/L	76			39	160	
	Carbon disulfide	20	16.4	ug/L	82			64	133	
	Methyl tert-butyl Ether	20	17.6	ug/L	88			71	124	
	Methyl Acetate	20	17.7	ug/L	89			56	136	
	Methylene Chloride	20	19.1	ug/L	96			74	124	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	124	
	1,1-Dichloroethane	20	18.9	ug/L	95			77	125	
	Cyclohexane	20	17.6	ug/L	88			71	130	
	2-Butanone	100	83.3	ug/L	83			56	143	
	Carbon Tetrachloride	20	18.9	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			78	123	
	Bromochloromethane	20	15.8	ug/L	79			78	123	
	Chloroform	20	17.7	ug/L	89			79	124	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	131	
	Methylcyclohexane	20	19.3	ug/L	97			72	132	
	Benzene	20	20.4	ug/L	102			79	120	
	1,2-Dichloroethane	20	19.2	ug/L	96			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	19.1	ug/L	96			78	122	
	Bromodichloromethane	20	19.1	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	92.4	ug/L	92			67	130	
	Toluene	20	19.5	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	17.9	ug/L	90			73	127	
	cis-1,3-Dichloropropene	20	19.2	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			80	119	
	2-Hexanone	100	90.4	ug/L	90			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	1,2-Dibromoethane	20	20.2	ug/L	101			77	121	
	Tetrachloroethene	20	20.8	ug/L	104			74	129	
	Chlorobenzene	20	19.9	ug/L	100			82	118	
	Ethyl Benzene	20	19.2	ug/L	96			79	121	
	m/p-Xylenes	40	39.8	ug/L	100			80	121	
	o-Xylene	20	19.8	ug/L	99			78	122	
	Styrene	20	19.8	ug/L	99			78	123	
	Bromoform	20	19.3	ug/L	97			66	130	
	Isopropylbenzene	20	19.9	ug/L	100			72	131	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			80	119	
	1,4-Dichlorobenzene	20	20.0	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	19.8	ug/L	99			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5281

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VX044441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1220WBS01	1,2-Dibromo-3-Chloropropane	20	16.5	ug/L	83			62	128	
	1,2,4-Trichlorobenzene	20	19.5	ug/L	98			69	130	
	1,2,3-Trichlorobenzene	20	19.4	ug/L	97			69	129	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1218WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044377.D Lab Sample ID: VX1218WBL01

Date Analyzed: 12/18/2024 Time Analyzed: 12:48

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
VX1218WBS01	VX1218WBS01	VX044378.D	12/18/2024
VX1218WBSD01	VX1218WBSD01	VX044379.D	12/18/2024
TT101D2-20241212	P5281-04	VX044381.D	12/18/2024
FB02-20241213	P5281-08	VX044382.D	12/18/2024
TB	P5281-09	VX044383.D	12/18/2024
RE114D1-20241212	P5281-01	VX044388.D	12/18/2024
BPOW1-8-20241212	P5281-03	VX044390.D	12/18/2024
RE117D1-20241213	P5281-05	VX044391.D	12/18/2024
RE115D1-20241213	P5281-06	VX044392.D	12/18/2024
TT189D2-20241213	P5281-07	VX044393.D	12/18/2024

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1220WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044440.D Lab Sample ID: VX1220WBL01

Date Analyzed: 12/20/2024 Time Analyzed: 10:23

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
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024
RE114D1-20241212DL	P5281-01DL	VX044444.D	12/20/2024
BPOW1-7-20241212	P5281-02	VX044451.D	12/20/2024
RE115D1-20241213DL	P5281-06DL	VX044455.D	12/20/2024

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044218.D BFB Injection Date: 12/11/2024

Instrument ID: MSVOA_X BFB Injection Time: 10:13

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.2 (7.3) 1
176	95.0 - 101.0% of mass 174	68.7 (96.6) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX044219.D	12/11/2024	10:41
VSTDICC005	VSTDICC005	VX044220.D	12/11/2024	11:27
VSTDICC020	VSTDICC020	VX044221.D	12/11/2024	11:50
VSTDICCC050	VSTDICCC050	VX044222.D	12/11/2024	12:14
VSTDICC100	VSTDICC100	VX044223.D	12/11/2024	12:37
VSTDICC150	VSTDICC150	VX044224.D	12/11/2024	13:00

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044374.D BFB Injection Date: 12/18/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:15

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	55.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	79.8
175	5.0 - 9.0% of mass 174	5.7 (7.1) 1
176	95.0 - 101.0% of mass 174	76.6 (96) 1
177	5.0 - 9.0% of mass 176	4.6 (6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044375.D	12/18/2024	11:57
VX1218WBL01	VX1218WBL01	VX044377.D	12/18/2024	12:48
VX1218WBS01	VX1218WBS01	VX044378.D	12/18/2024	13:11
VX1218WBSD01	VX1218WBSD01	VX044379.D	12/18/2024	13:38
TT101D2-20241212	P5281-04	VX044381.D	12/18/2024	14:24
FB02-20241213	P5281-08	VX044382.D	12/18/2024	14:48
TB	P5281-09	VX044383.D	12/18/2024	15:11
RE114D1-20241212	P5281-01	VX044388.D	12/18/2024	17:08
BPOW1-8-20241212	P5281-03	VX044390.D	12/18/2024	17:55
RE117D1-20241213	P5281-05	VX044391.D	12/18/2024	18:18
RE115D1-20241213	P5281-06	VX044392.D	12/18/2024	18:42
TT189D2-20241213	P5281-07	VX044393.D	12/18/2024	19:05
VSTDCCC050EC	VSTDCCC050	VX044395.D	12/18/2024	19:52

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044437.D BFB Injection Date: 12/20/2024

Instrument ID: MSVOA_X BFB Injection Time: 08:49

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	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	5.6 (7.2) 1
176	95.0 - 101.0% of mass 174	76.6 (98.5) 1
177	5.0 - 9.0% of mass 176	4.7 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044438.D	12/20/2024	09:16
VX1220WBL01	VX1220WBL01	VX044440.D	12/20/2024	10:23
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024	10:46
RE114D1-20241212DL	P5281-01DL	VX044444.D	12/20/2024	12:03
BPOW1-7-20241212	P5281-02	VX044451.D	12/20/2024	14:46
RE115D1-20241213DL	P5281-06DL	VX044455.D	12/20/2024	16:19
VSTDCCC050EC	VSTDCCC050	VX044464.D	12/20/2024	19:49

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044375.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_X Time Analyzed: 11:57

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	145222	5.54	244425	6.75	212426	10.05
UPPER LIMIT	290444	6.044	488850	7.251	424852	10.549
LOWER LIMIT	72611	5.044	122213	6.251	106213	9.549
EPA SAMPLE NO.						
RE114D1-20241212	115604	5.54	209270	6.76	182535	10.06
BPOW1-8-20241212	114414	5.54	208386	6.76	184180	10.06
TT101D2-20241212	120810	5.55	214177	6.76	186747	10.06
RE117D1-20241213	111808	5.55	202274	6.76	172810	10.06
RE115D1-20241213	115938	5.55	206968	6.76	178386	10.06
TT189D2-20241213	120659	5.55	218055	6.76	189518	10.06
FB02-20241213	120337	5.55	217882	6.76	185612	10.06
TB	116899	5.54	209253	6.76	182054	10.06
VX1218WBL01	123193	5.55	230004	6.76	201476	10.06
VX1218WBS01	152020	5.54	272118	6.76	233700	10.06
VX1218WBSD01	147797	5.54	256001	6.76	224705	10.06

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044375.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_X Time Analyzed: 11:57

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

	IS4 AREA #	RT #				
12 HOUR STD	100489	12.018				
UPPER LIMIT	200978	12.518				
LOWER LIMIT	50244.5	11.518				
EPA SAMPLE NO.						
RE114D1-20241212	75803	12.02				
BPOW1-8-20241212	77822	12.02				
TT101D2-20241212	76850	12.02				
RE117D1-20241213	67944	12.02				
RE115D1-20241213	70750	12.02				
TT189D2-20241213	76670	12.02				
FB02-20241213	75075	12.02				
TB	70980	12.02				
VX1218WBL01	82810	12.02				
VX1218WBS01	101950	12.02				
VX1218WBSD01	101474	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044438.D Date Analyzed: 12/20/2024

Instrument ID: MSVOA_X Time Analyzed: 09:16

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	136445	5.54	226018	6.76	197543	10.06
UPPER LIMIT	272890	6.044	452036	7.257	395086	10.555
LOWER LIMIT	68222.5	5.044	113009	6.257	98771.5	9.555
EPA SAMPLE NO.						
RE114D1-20241212DL	118538	5.55	211612	6.76	184574	10.06
BPOW1-7-20241212	117082	5.55	205938	6.76	173219	10.06
RE115D1-20241213DL	121258	5.55	216230	6.76	191670	10.06
VX1220WBL01	120864	5.55	218417	6.76	193836	10.05
VX1220WBS01	146515	5.55	249173	6.76	212384	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG NO.: P5281

Lab File ID: VX044438.D Date Analyzed: 12/20/2024

Instrument ID: MSVOA_X Time Analyzed: 09:16

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

	IS4 AREA #	RT #				
12 HOUR STD	95339	12.018				
UPPER LIMIT	190678	12.518				
LOWER LIMIT	47669.5	11.518				
EPA SAMPLE NO.						
RE114D1-20241212DL	74955	12.02				
BPOW1-7-20241212	66450	12.02				
RE115D1-20241213DL	80370	12.02				
VX1220WBL01	81005	12.02				
VX1220WBS01	96885	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:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE114D1-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-01	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
VX044388.D	1		12/18/24 17:08	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.00		0.21	0.50	1.00	ug/L
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	21.7		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	3.50		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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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	0.97	J	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.80		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	3.60		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	1.90		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	390	E	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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE114D1-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-01	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
VX044388.D	1		12/18/24 17:08	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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	1.40		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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	0.34	J	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.2		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	116000	5.544				
540-36-3	1,4-Difluorobenzene	209000	6.757				
3114-55-4	Chlorobenzene-d5	183000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	75800	12.024				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE114D1-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-01	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
VX044388.D	1		12/18/24 17:08	VX121824

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\VX121824\
Data File : VX044388.D
Acq On : 18 Dec 2024 17:08
Operator : JC/MD
Sample : P5281-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Quant Time: Dec 19 00:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

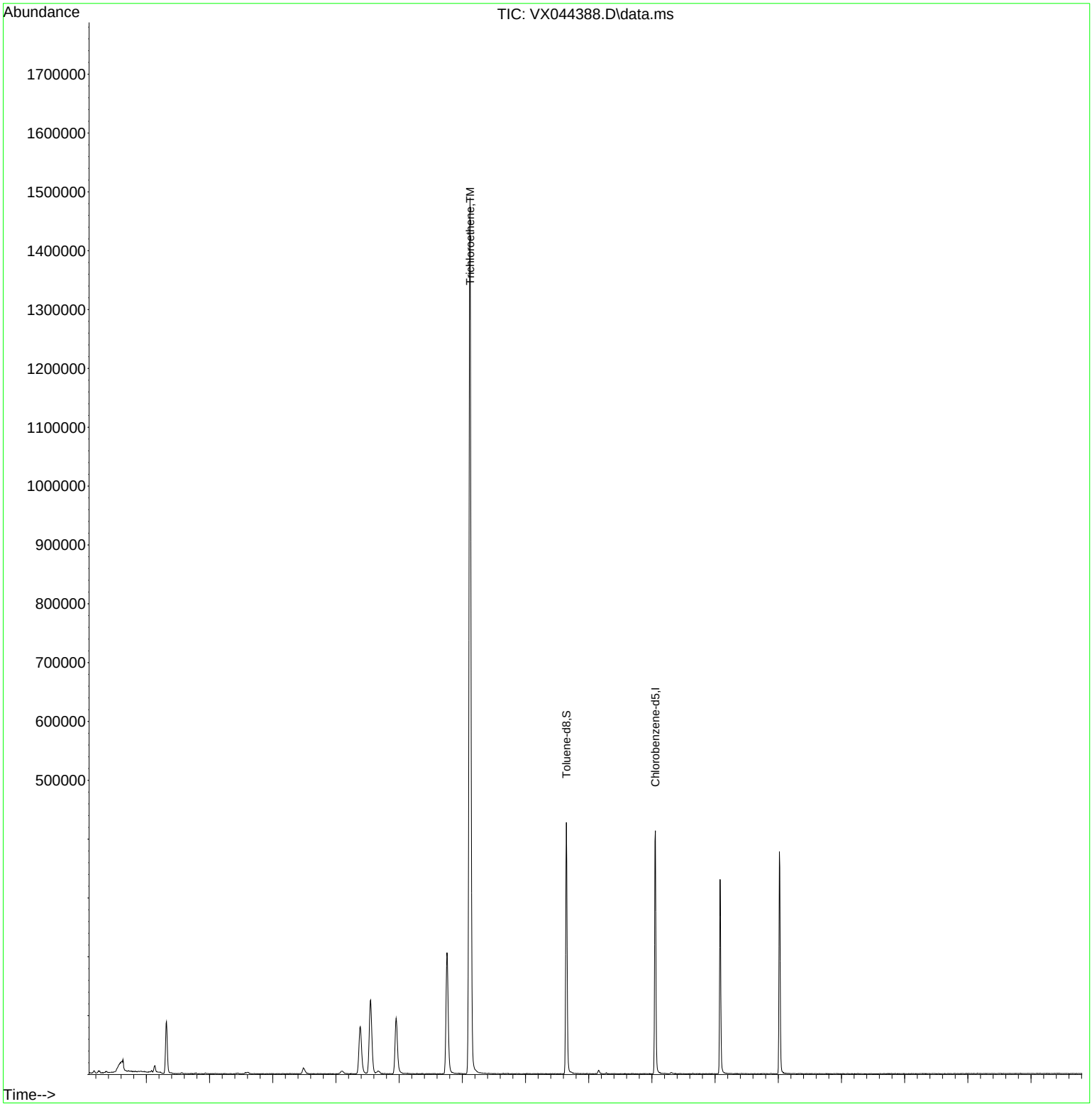
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	115604	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	209270	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	182535	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	75803	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.952	65	91590	45.187	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.380%				
35) Dibromofluoromethane	5.379	113	69318	47.826	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.660%				
50) Toluene-d8	8.647	98	250157	51.159	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.320%				
62) 4-Bromofluorobenzene	11.079	95	83299	48.752	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	1801	1.008	ug/l		86
3) Chloromethane	1.301	50	424	0.248	ug/l	#	71
9) 1,1,2-Trichlorotrifluo...	2.319	101	30675	21.744	ug/l		98
12) 1,1-Dichloroethene	2.306	96	4525	3.492	ug/l		97
16) Acetone	2.380	43	970	1.174	ug/l	#	70
20) Methylene Chloride	2.782	84	447	0.288	ug/l	#	78
24) 1,1-Dichloroethane	3.599	63	2633	0.972	ug/l	#	92
27) cis-1,2-Dichloroethene	4.483	96	6250	3.573	ug/l		87
30) Chloroform	5.093	83	5719	1.879	ug/l		89
38) Carbon Tetrachloride	5.672	117	3650	1.810	ug/l	#	84
44) Trichloroethene	7.123	130	554580	390.956	ug/l		99
55) 1,1,2-Trichloroethane	9.159	97	2042	1.439	ug/l	#	79
68) m/p-Xylenes	10.311	106	846	0.341	ug/l		80

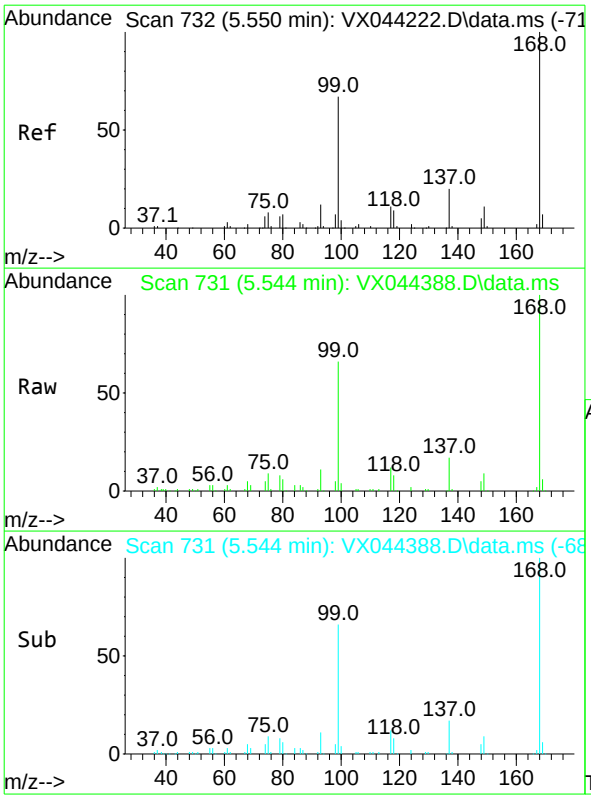
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044388.D
Acq On : 18 Dec 2024 17:08
Operator : JC/MD
Sample : P5281-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Quant Time: Dec 19 00:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



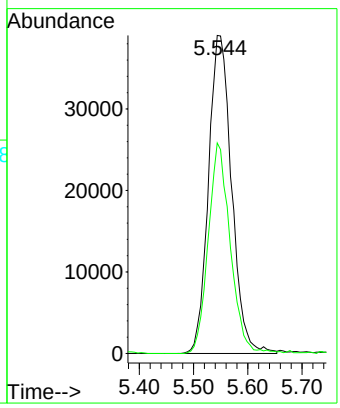


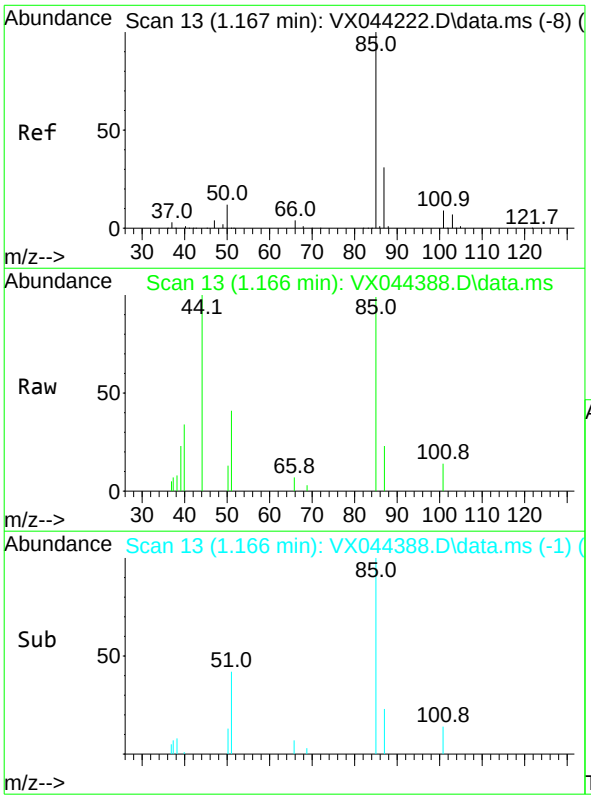
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion:168 Resp: 115604

Ion	Ratio	Lower	Upper
168	100		
99	66.2	53.4	80.0

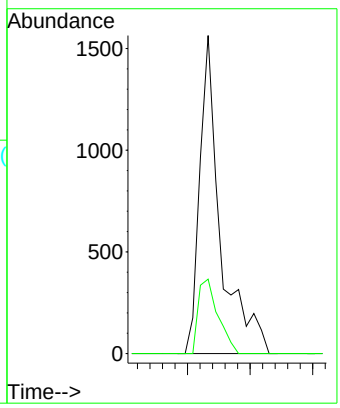


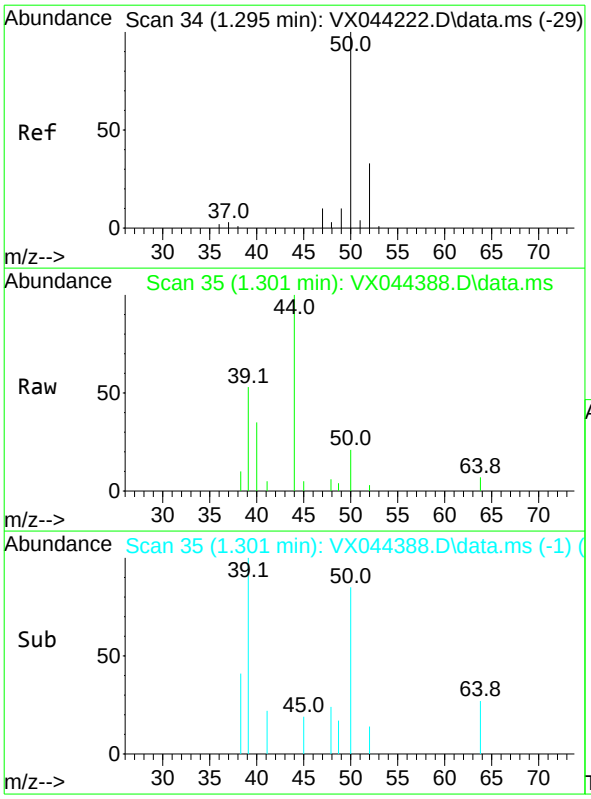


#2
Dichlorodifluoromethane
Concen: 1.008 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 85 Resp: 1801

Ion	Ratio	Lower	Upper
85	100		
87	23.4	15.4	46.4



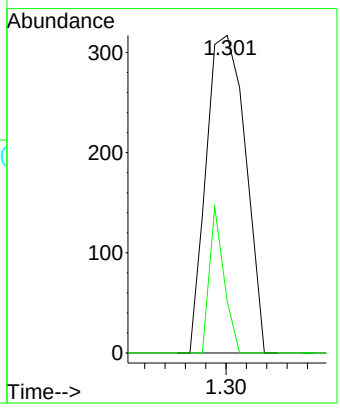


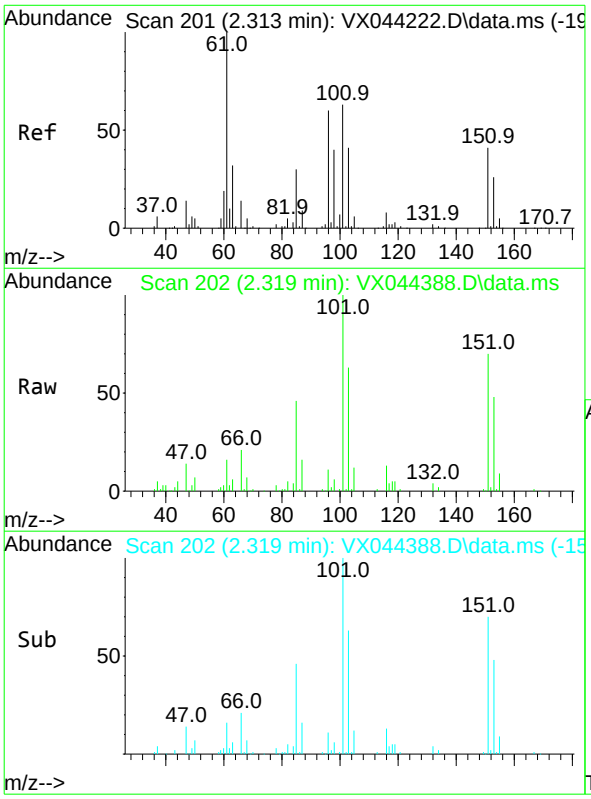
#3
Chloromethane
Concen: 0.248 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion: 50 Resp: 424

Ion	Ratio	Lower	Upper
50	100		
52	16.4	26.5	39.7#

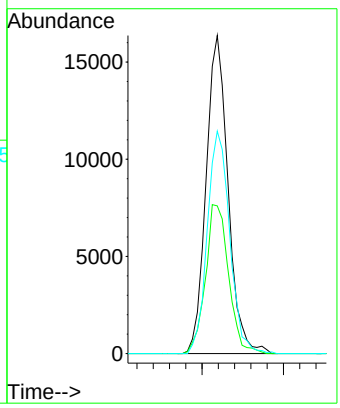


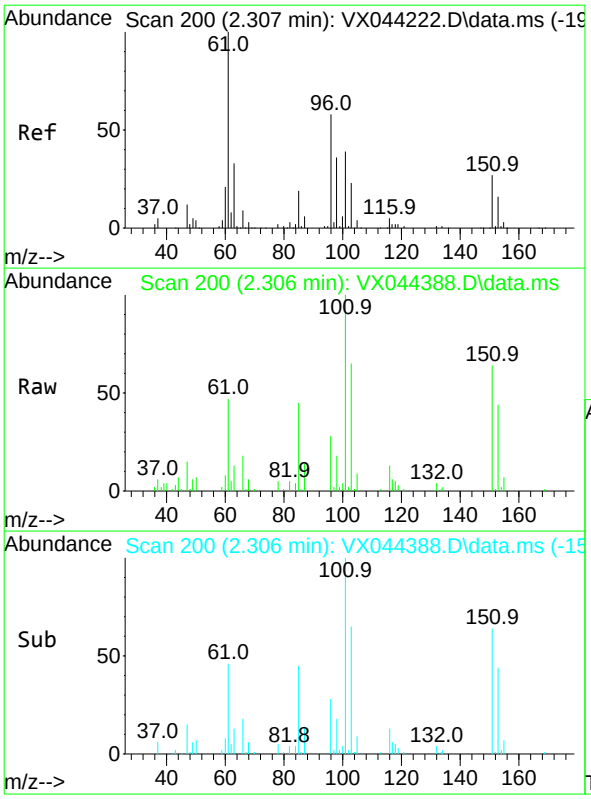


#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.744 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion:101 Resp: 30675

Ion	Ratio	Lower	Upper
101	100		
85	49.3	38.5	57.7
151	71.6	55.8	83.6



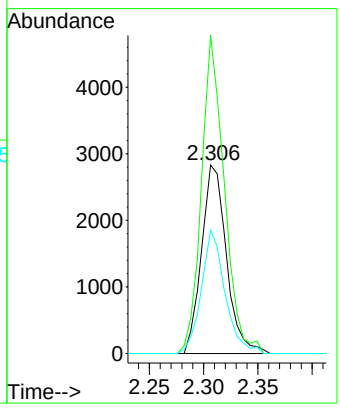


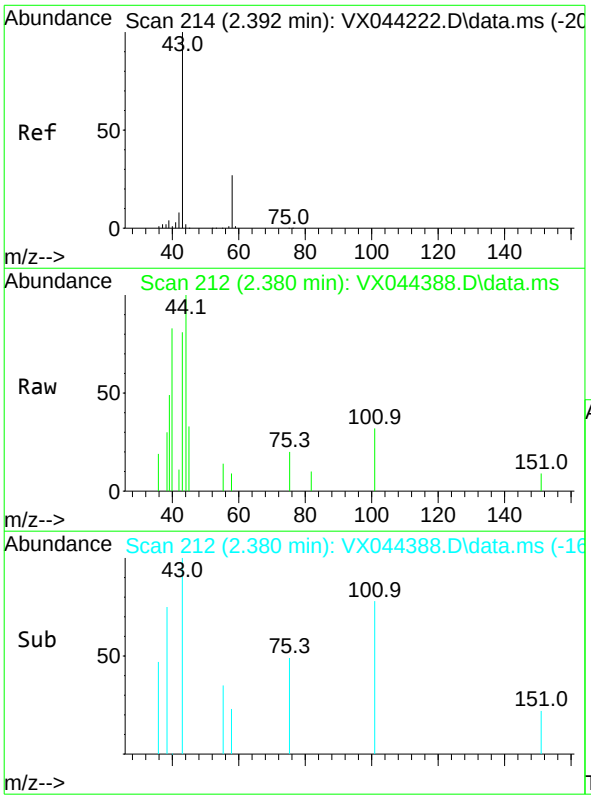
#12
1,1-Dichloroethene
Concen: 3.492 ug/l
RT: 2.306 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion: 96 Resp: 4525

Ion	Ratio	Lower	Upper
96	100		
61	168.7	138.0	207.0
98	65.4	50.0	75.0

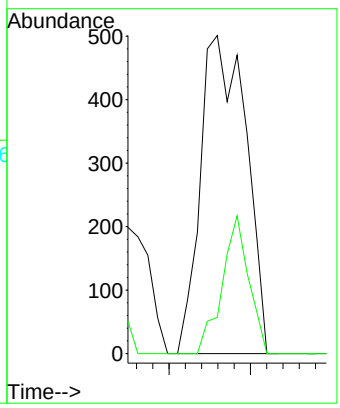


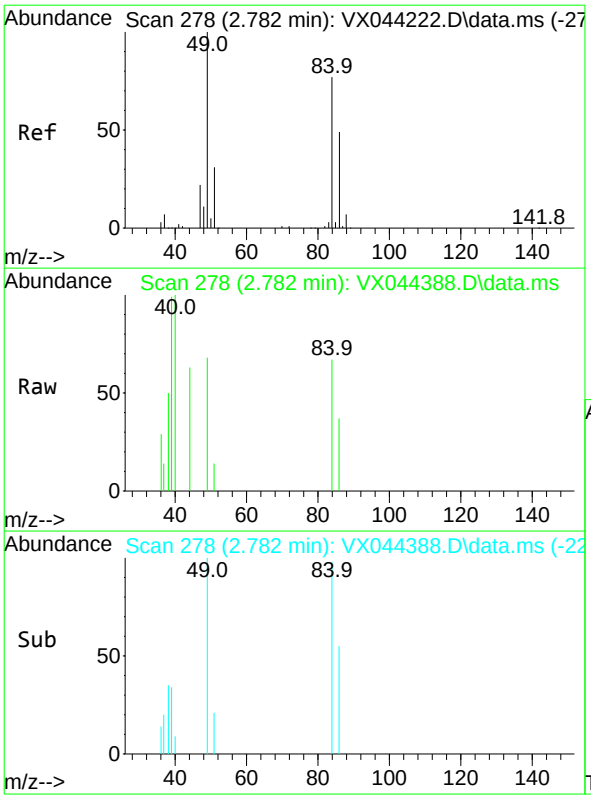


#16
Acetone
Concen: 1.174 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.012 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 43 Resp: 970

Ion	Ratio	Lower	Upper
43	100		
58	11.4	21.6	32.4#



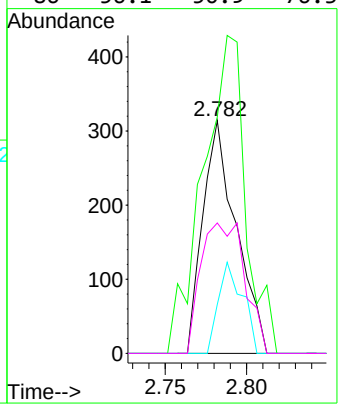


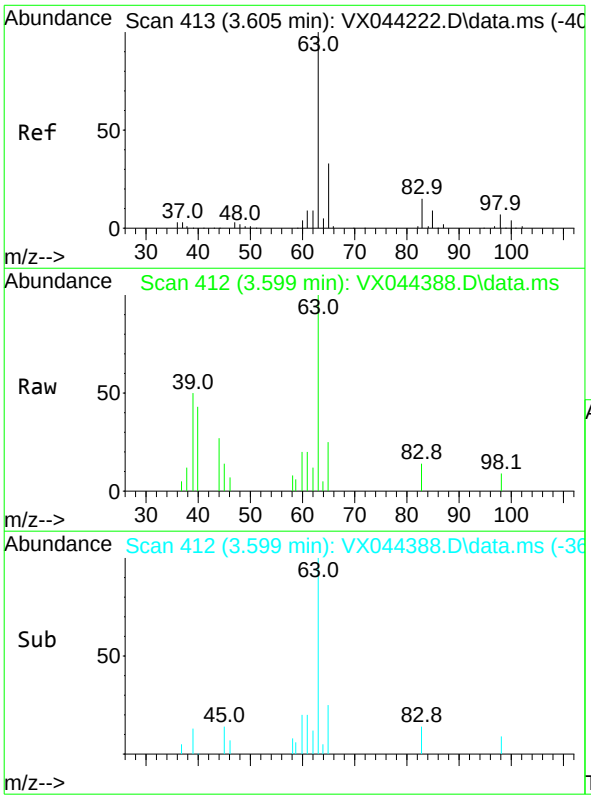
#20
Methylene Chloride
Concen: 0.288 ug/l
RT: 2.782 min Scan# 27
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion: 84 Resp: 447

Ion	Ratio	Lower	Upper
84	100		
49	101.6	104.2	156.4#
51	21.0	32.2	48.4#
86	56.1	50.9	76.3

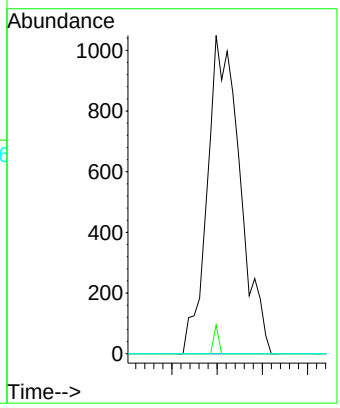


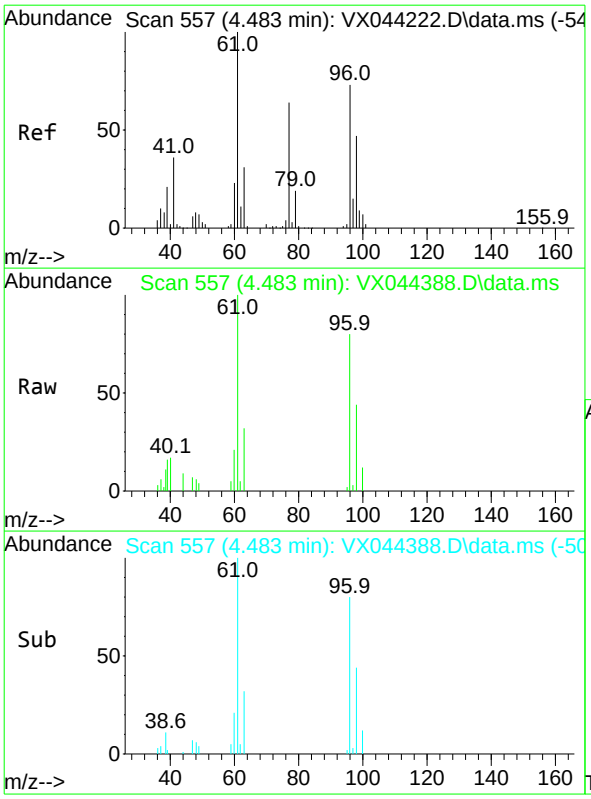


#24
1,1-Dichloroethane
Concen: 0.972 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 63 Resp: 2633

Ion	Ratio	Lower	Upper
63	100		
98	9.1	3.6	10.8
100	0.0	2.1	6.3#



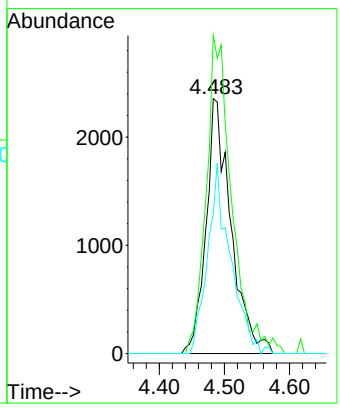


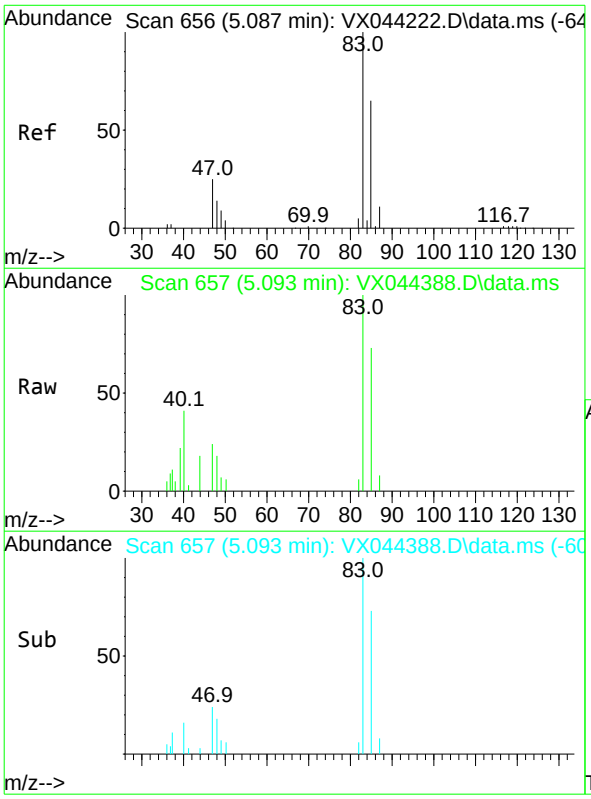
#27
cis-1,2-Dichloroethene
Concen: 3.573 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion: 96 Resp: 6250

Ion	Ratio	Lower	Upper
96	100		
61	128.1	0.0	299.0
98	68.4	0.0	129.0

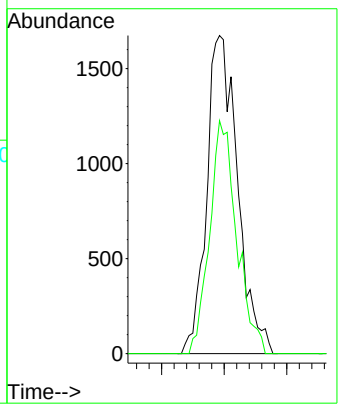


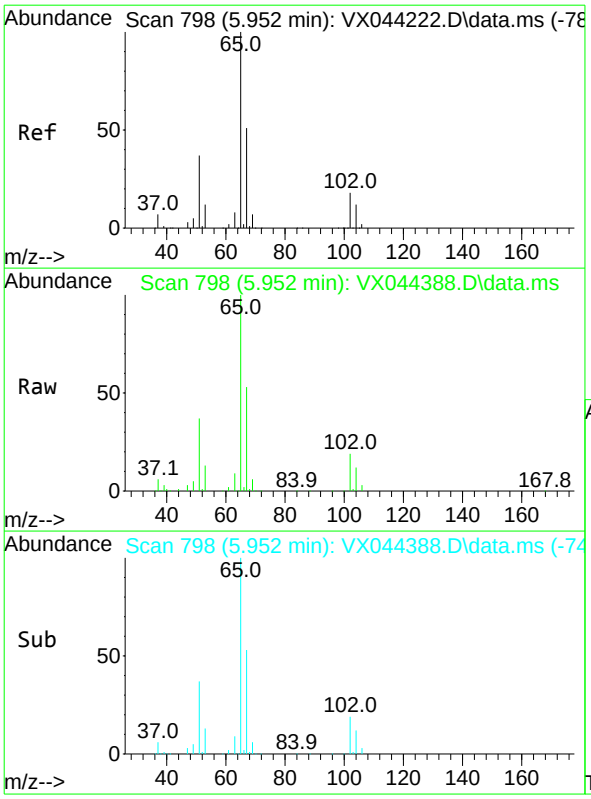


#30
Chloroform
Concen: 1.879 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 83 Resp: 5719

Ion	Ratio	Lower	Upper
83	100		
85	73.2	51.6	77.4



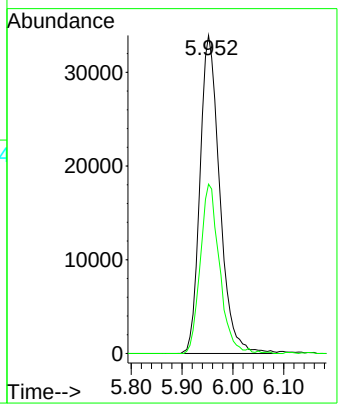


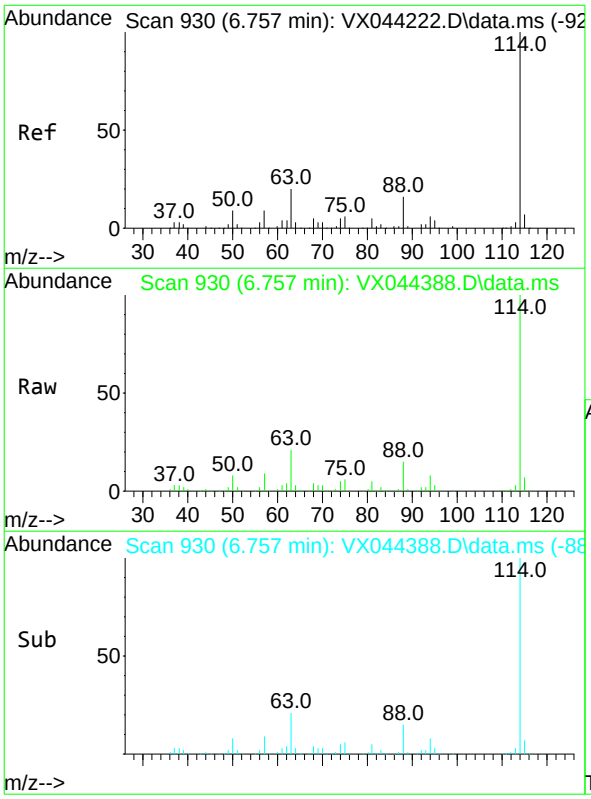
#33
1,2-Dichloroethane-d4
Concen: 45.187 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion: 65 Resp: 91590

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	101.6

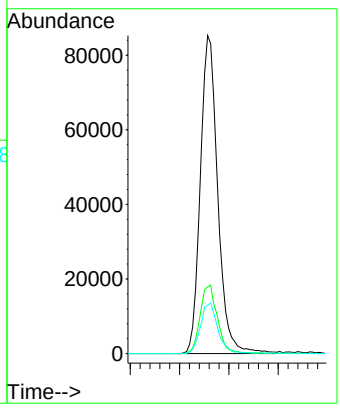


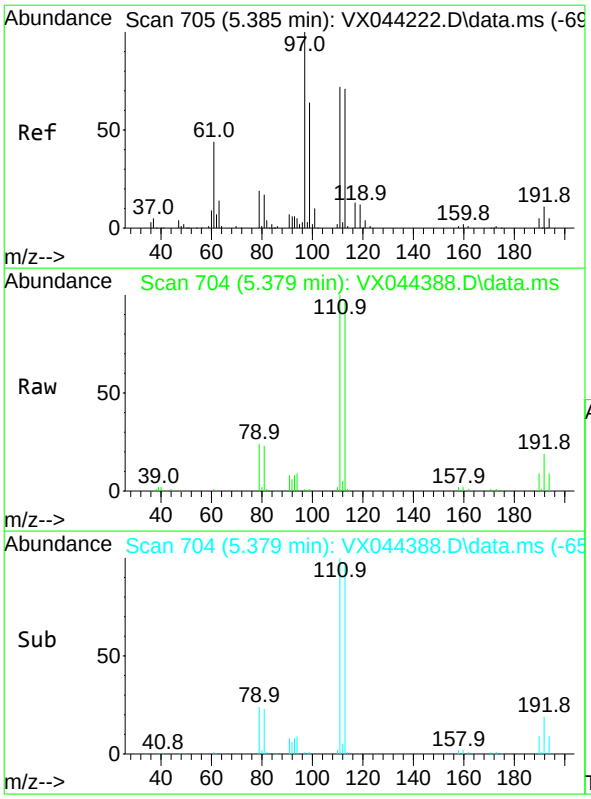


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion:114 Resp: 209270

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.6
88	15.2	0.0	31.8



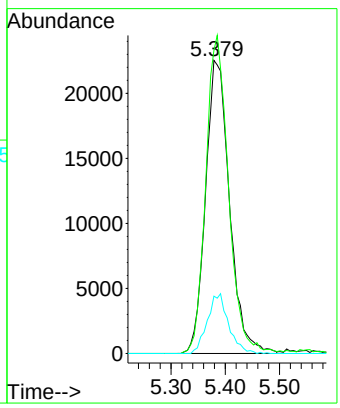


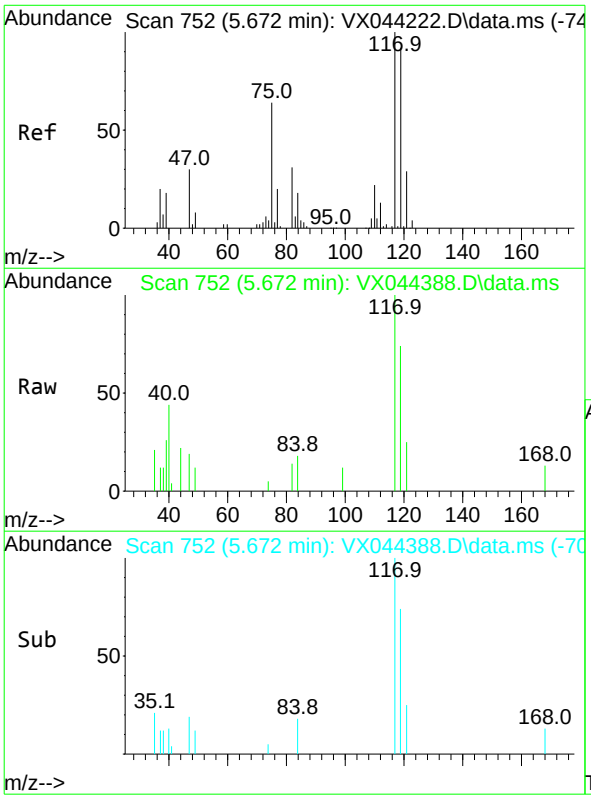
#35
Dibromofluoromethane
Concen: 47.826 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion:113 Resp: 69318

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.4	120.6
192	18.0	13.3	19.9

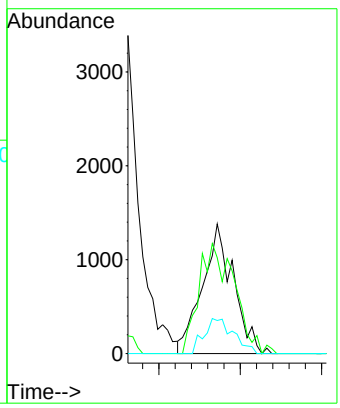


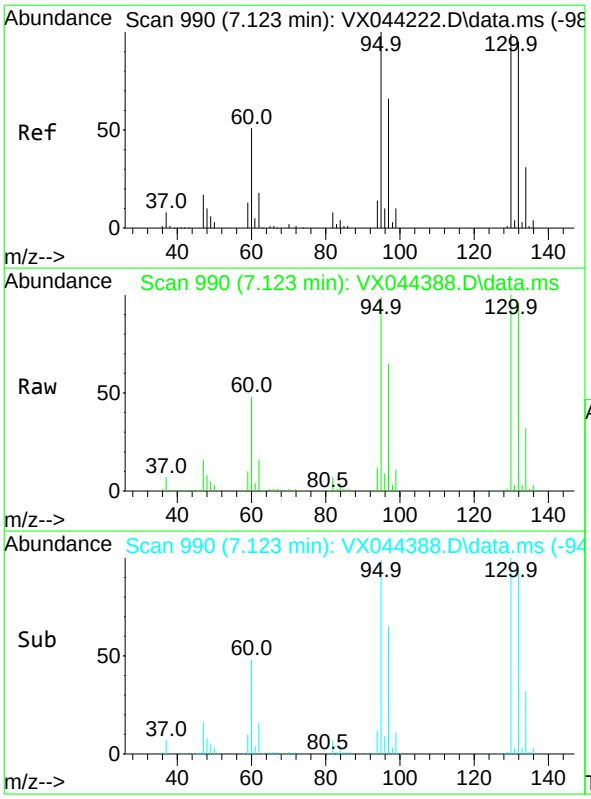


#38
Carbon Tetrachloride
Concen: 1.810 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion:117 Resp: 3650

Ion	Ratio	Lower	Upper
117	100		
119	73.9	74.2	111.4#
121	25.5	23.0	34.6



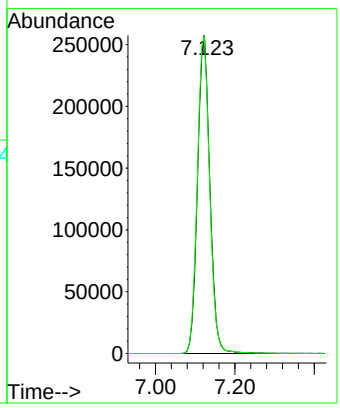


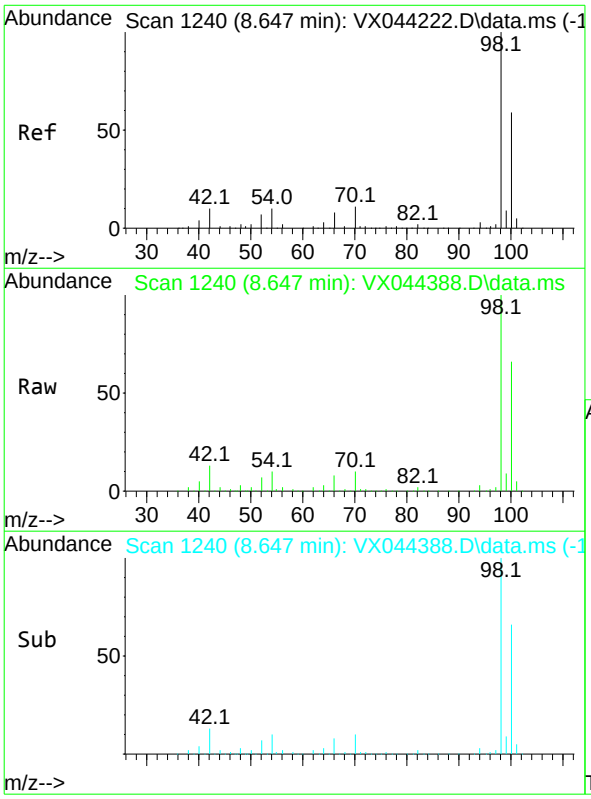
#44
Trichloroethene
Concen: 390.956 ug/l
RT: 7.123 min Scan# 99
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion:130 Resp: 554580

Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	201.4

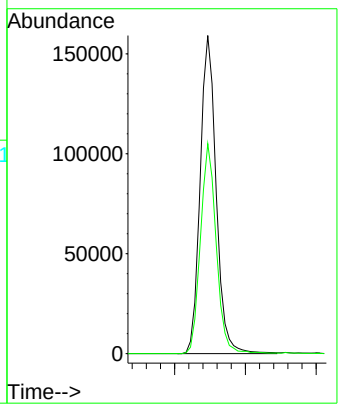


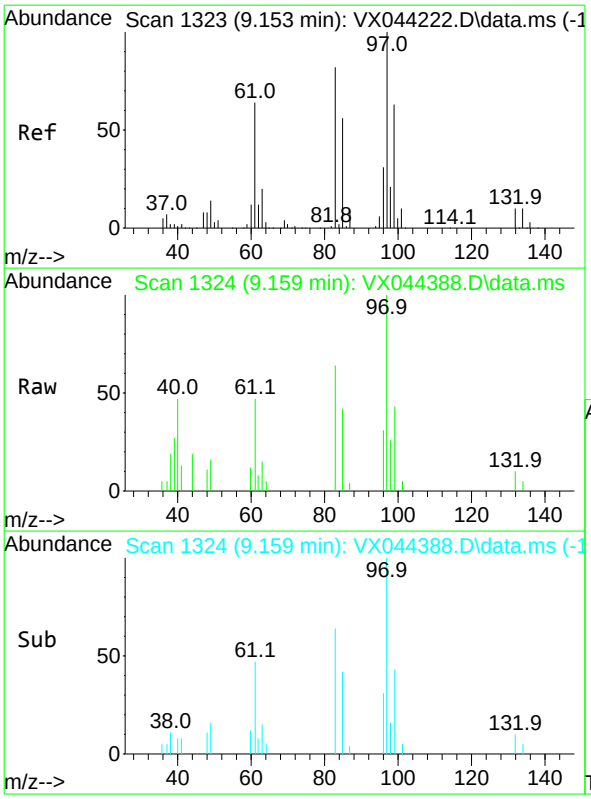


#50
Toluene-d8
Concen: 51.159 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 98 Resp: 250157

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3



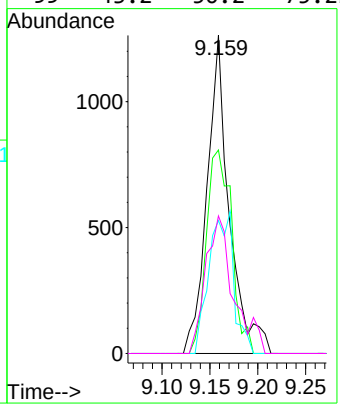


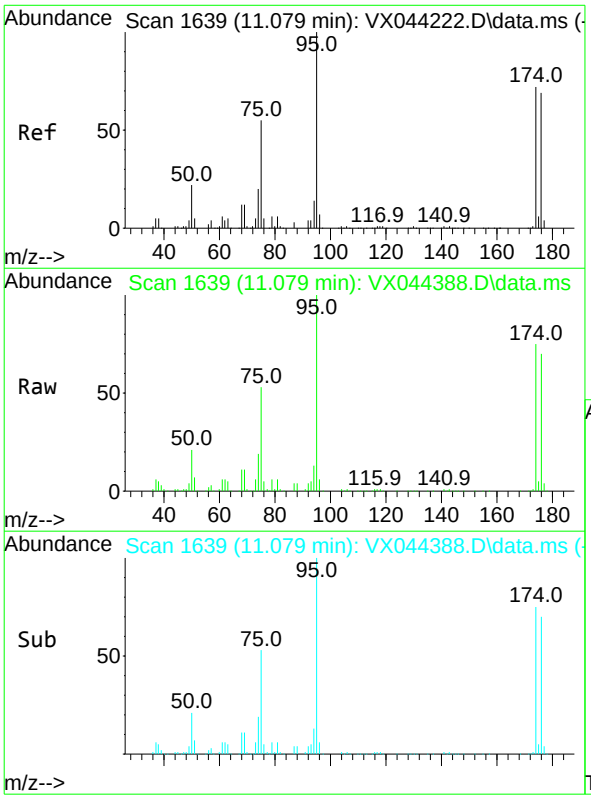
#55
1,1,2-Trichloroethane
Concen: 1.439 ug/l
RT: 9.159 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion: 97 Resp: 2042

Ion	Ratio	Lower	Upper
97	100		
83	64.0	65.3	97.9#
85	41.8	44.6	67.0#
99	43.2	50.2	75.2#

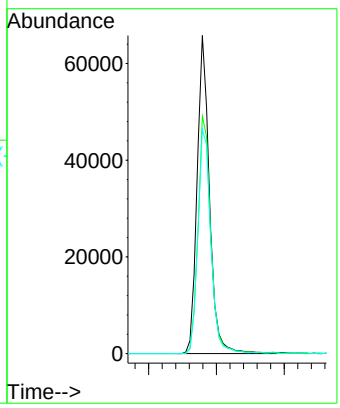


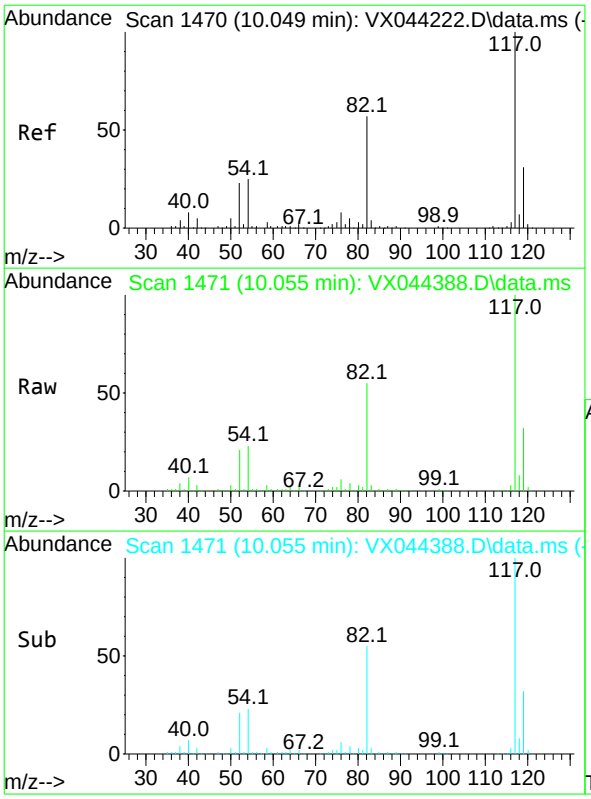


#62
4-Bromofluorobenzene
Concen: 48.752 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion: 95 Resp: 83299

Ion	Ratio	Lower	Upper
95	100		
174	76.6	0.0	145.8
176	74.0	0.0	137.8



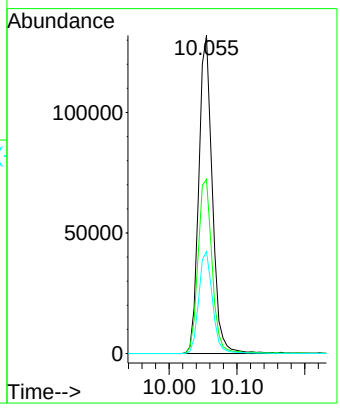


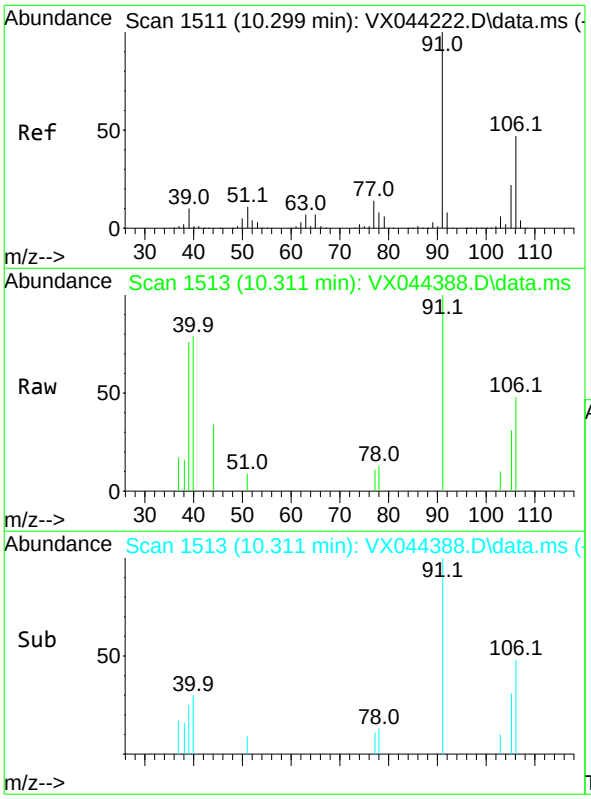
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion:117 Resp: 182535

Ion	Ratio	Lower	Upper
117	100		
82	54.8	45.8	68.8
119	32.0	25.0	37.4

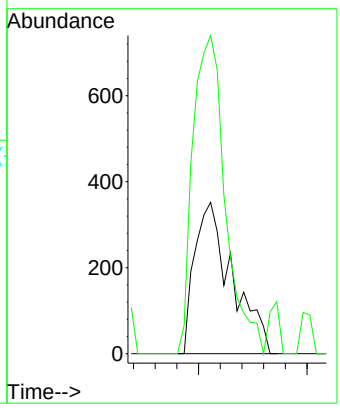


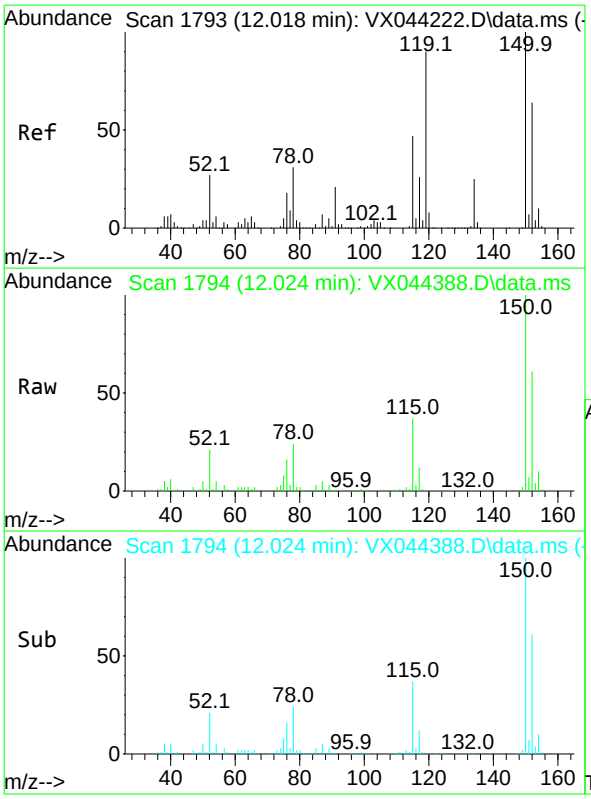


#68
m/p-Xylenes
Concen: 0.341 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.012 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Tgt Ion:106 Resp: 846

Ion	Ratio	Lower	Upper
106	100		
91	181.8	170.2	255.2



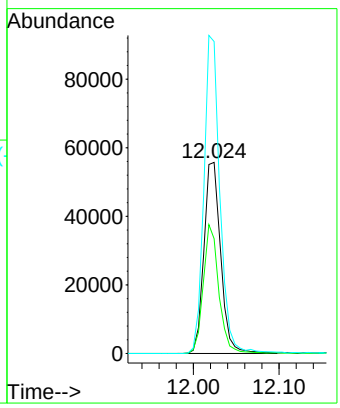


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044388.D
Acq: 18 Dec 2024 17:08

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212

Tgt Ion:152 Resp: 75803

Ion	Ratio	Lower	Upper
152	100		
115	62.3	44.5	133.3
150	159.6	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE114D1-20241212DL	SDG No.:	P5281
Lab Sample ID:	P5281-01DL	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
VX044444.D	10		12/20/24 12:03	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	5.00	UD	2.10	5.00	10.0	ug/L
74-87-3	Chloromethane	5.00	UD	3.50	5.00	10.0	ug/L
75-01-4	Vinyl Chloride	7.50	UD	3.40	7.50	10.0	ug/L
74-83-9	Bromomethane	37.5	UD	13.6	37.5	50.0	ug/L
75-00-3	Chloroethane	7.50	UD	5.60	7.50	10.0	ug/L
75-69-4	Trichlorofluoromethane	5.00	UD	3.40	5.00	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	23.0	D	2.50	5.00	10.0	ug/L
75-35-4	1,1-Dichloroethene	3.80	JD	2.60	7.50	10.0	ug/L
67-64-1	Acetone	37.5	UD	13.9	37.5	50.0	ug/L
75-15-0	Carbon Disulfide	7.50	UD	3.20	7.50	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	5.00	UD	1.60	5.00	10.0	ug/L
79-20-9	Methyl Acetate	7.50	UD	6.00	7.50	10.0	ug/L
75-09-2	Methylene Chloride	5.00	UD	3.20	5.00	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	5.00	UD	2.50	5.00	10.0	ug/L
75-34-3	1,1-Dichloroethane	5.00	UD	2.30	5.00	10.0	ug/L
110-82-7	Cyclohexane	25.0	UD	16.2	25.0	50.0	ug/L
78-93-3	2-Butanone	25.0	UD	13.0	25.0	50.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	2.50	5.00	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.40	JD	2.50	7.50	10.0	ug/L
74-97-5	Bromochloromethane	5.00	UD	1.80	5.00	10.0	ug/L
67-66-3	Chloroform	5.00	UD	2.60	5.00	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	5.00	UD	1.90	5.00	10.0	ug/L
108-87-2	Methylcyclohexane	5.00	UD	1.90	5.00	10.0	ug/L
71-43-2	Benzene	5.00	UD	1.60	5.00	10.0	ug/L
107-06-2	1,2-Dichloroethane	5.00	UD	2.40	5.00	10.0	ug/L
79-01-6	Trichloroethene	410	D	3.20	7.50	10.0	ug/L
78-87-5	1,2-Dichloropropane	5.00	UD	1.90	5.00	10.0	ug/L
75-27-4	Bromodichloromethane	5.00	UD	2.40	5.00	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	25.0	UD	7.50	25.0	50.0	ug/L
108-88-3	Toluene	5.00	UD	1.80	5.00	10.0	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE114D1-20241212DL	SDG No.:	P5281
Lab Sample ID:	P5281-01DL	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
VX044444.D	10		12/20/24 12:03	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	5.00	UD	2.10	5.00	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	5.00	UD	1.80	5.00	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	5.00	UD	2.10	5.00	10.0	ug/L
591-78-6	2-Hexanone	25.0	UD	11.3	25.0	50.0	ug/L
124-48-1	Dibromochloromethane	5.00	UD	1.80	5.00	10.0	ug/L
106-93-4	1,2-Dibromoethane	5.00	UD	1.60	5.00	10.0	ug/L
127-18-4	Tetrachloroethene	5.00	UD	2.50	5.00	10.0	ug/L
108-90-7	Chlorobenzene	5.00	UD	1.30	5.00	10.0	ug/L
100-41-4	Ethyl Benzene	5.00	UD	1.60	5.00	10.0	ug/L
179601-23-1	m/p-Xylenes	10.0	UD	3.10	10.0	20.0	ug/L
95-47-6	o-Xylene	5.00	UD	1.40	5.00	10.0	ug/L
100-42-5	Styrene	5.00	UD	1.60	5.00	10.0	ug/L
75-25-2	Bromoform	5.00	UD	2.10	5.00	10.0	ug/L
98-82-8	Isopropylbenzene	5.00	UD	1.30	5.00	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.00	UD	2.70	5.00	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	5.00	UD	2.40	5.00	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	UD	2.70	5.00	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	5.00	UD	1.90	5.00	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	7.50	UD	4.60	7.50	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	5.00	UD	4.20	5.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	7.50	UD	5.10	7.50	10.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.9		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	119000	5.55				
540-36-3	1,4-Difluorobenzene	212000	6.757				
3114-55-4	Chlorobenzene-d5	185000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	75000	12.018				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE114D1-20241212DL	SDG No.:	P5281
Lab Sample ID:	P5281-01DL	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
VX044444.D	10		12/20/24 12:03	VX122024

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\VX122024\
Data File : VX044444.D
Acq On : 20 Dec 2024 12:03
Operator : JC/MD
Sample : P5281-01DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212DL

Quant Time: Dec 20 22:24:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

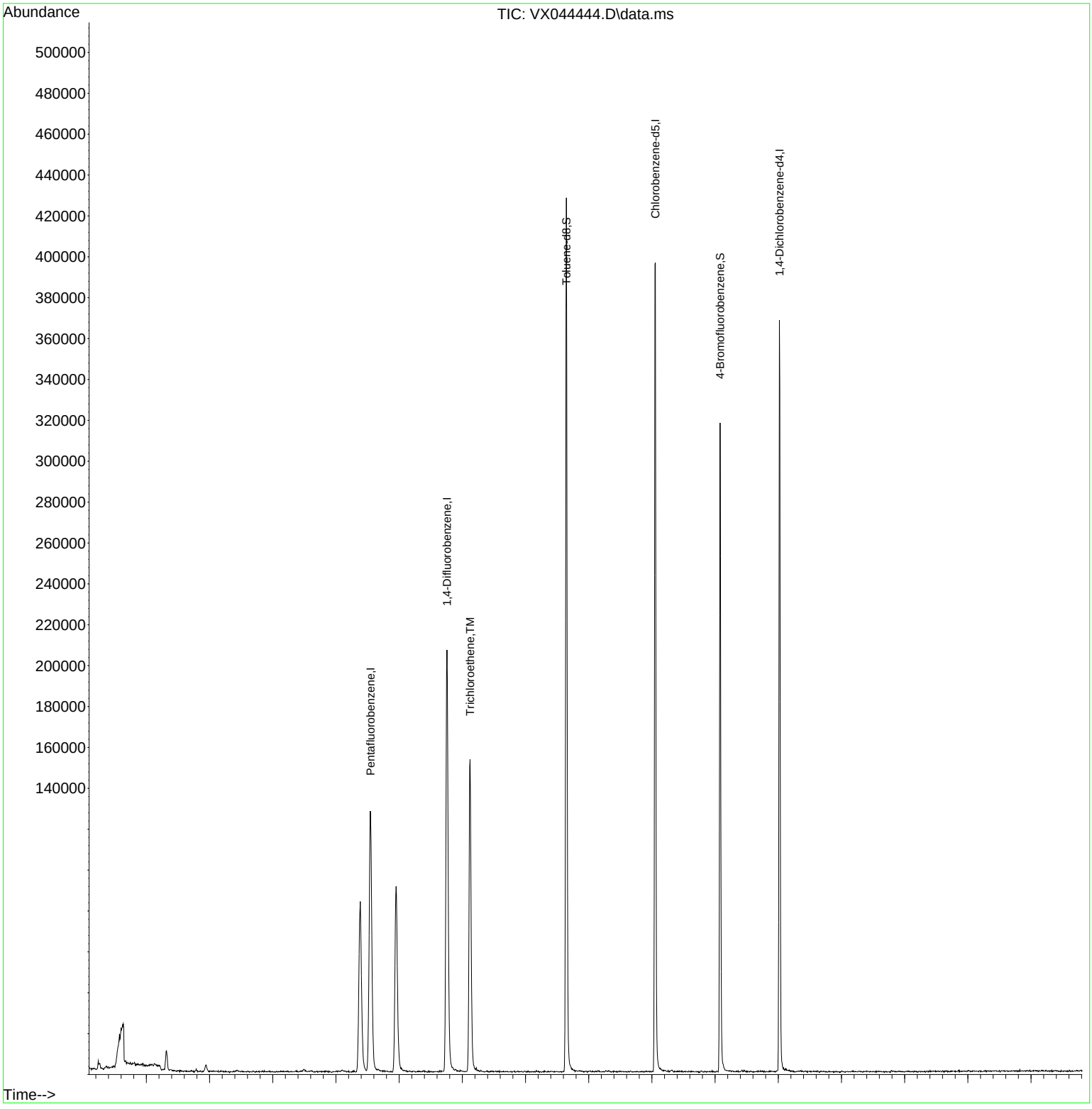
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	118538	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	211612	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	184574	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74955	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	89218	42.927	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.860%			
35) Dibromofluoromethane	5.385	113	70747	48.272	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.540%			
50) Toluene-d8	8.647	98	250889	50.741	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.480%			
62) 4-Bromofluorobenzene	11.079	95	79951	46.275	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.540%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.319	101	3329	2.301	ug/l	98
12) 1,1-Dichloroethene	2.313	96	505	0.380	ug/l #	88
27) cis-1,2-Dichloroethene	4.501	96	609	0.340	ug/l	94
44) Trichloroethene	7.123	130	58695	40.920	ug/l	91

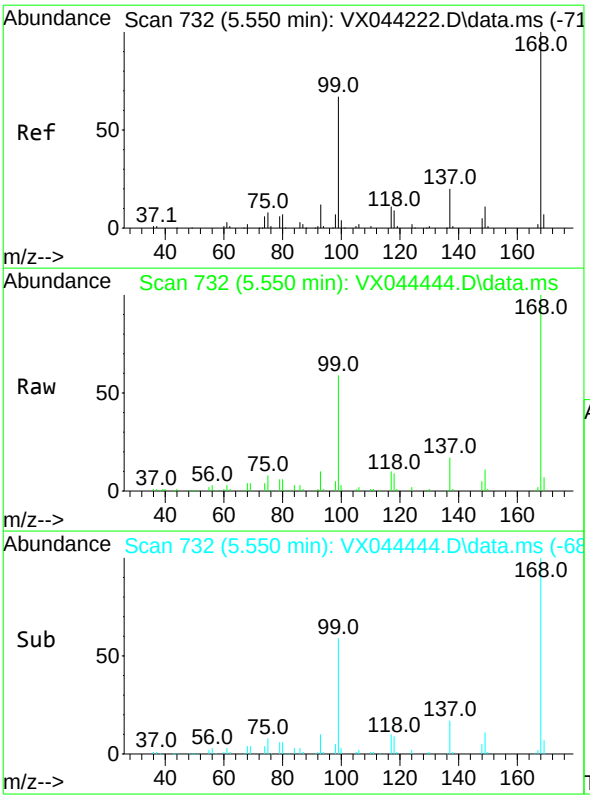
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044444.D
Acq On : 20 Dec 2024 12:03
Operator : JC/MD
Sample : P5281-01DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212DL

Quant Time: Dec 20 22:24:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



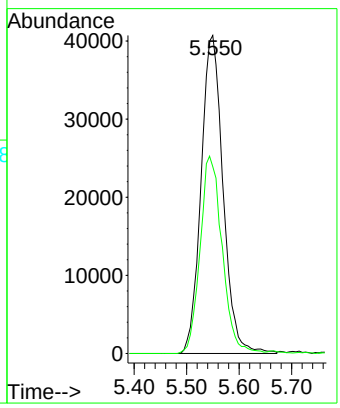


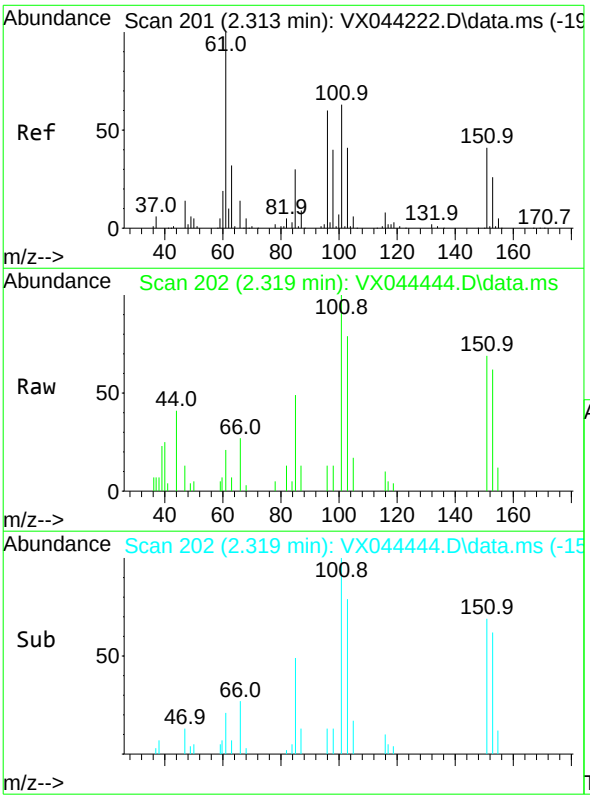
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212DL

Tgt Ion:168 Resp: 118538

Ion	Ratio	Lower	Upper
168	100		
99	58.7	53.4	80.0

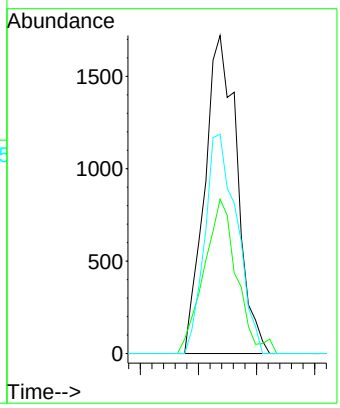


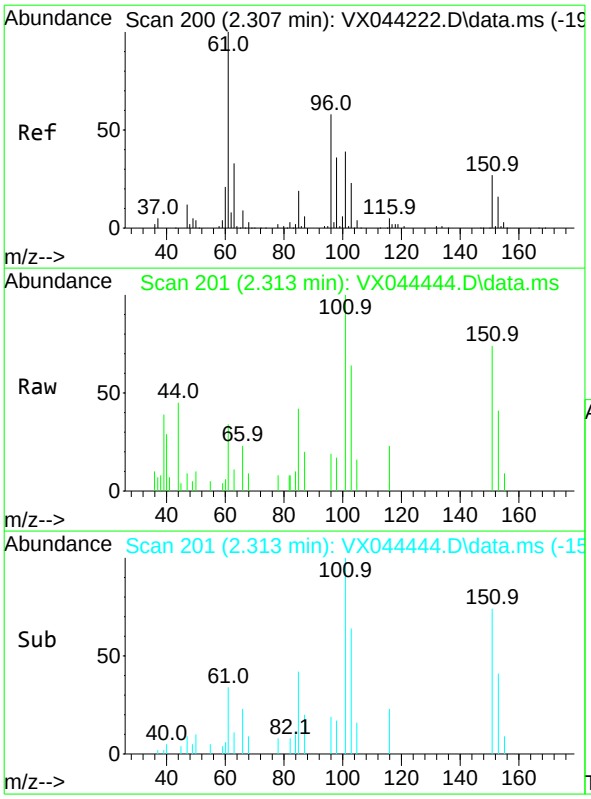


#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.301 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Tgt Ion:101 Resp: 3329

Ion	Ratio	Lower	Upper
101	100		
85	49.1	38.5	57.7
151	68.3	55.8	83.6



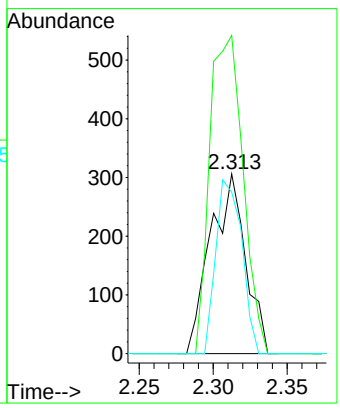


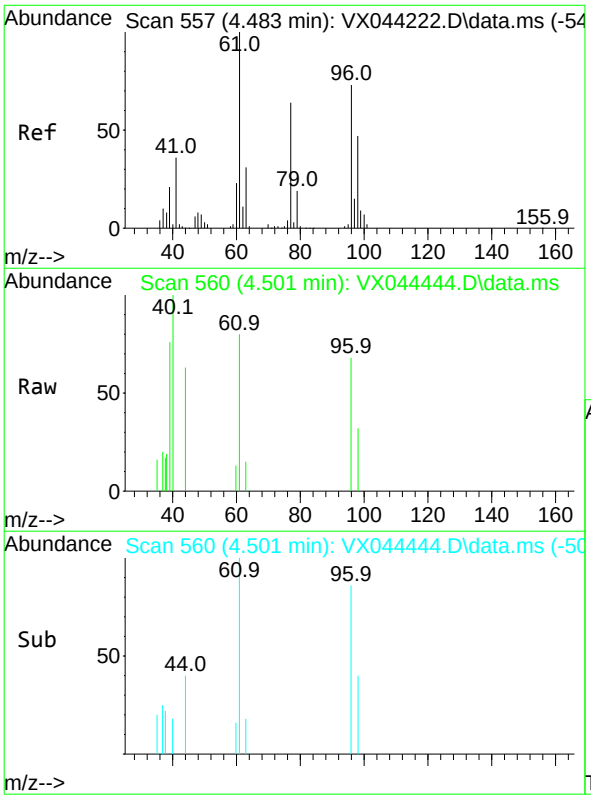
#12
1,1-Dichloroethene
Concen: 0.380 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212DL

Tgt Ion: 96 Resp: 505

Ion	Ratio	Lower	Upper
96	100		
61	177.1	138.0	207.0
98	89.9	50.0	75.0#

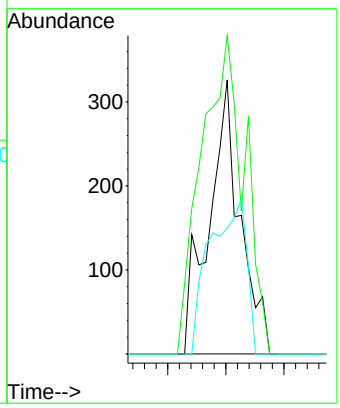


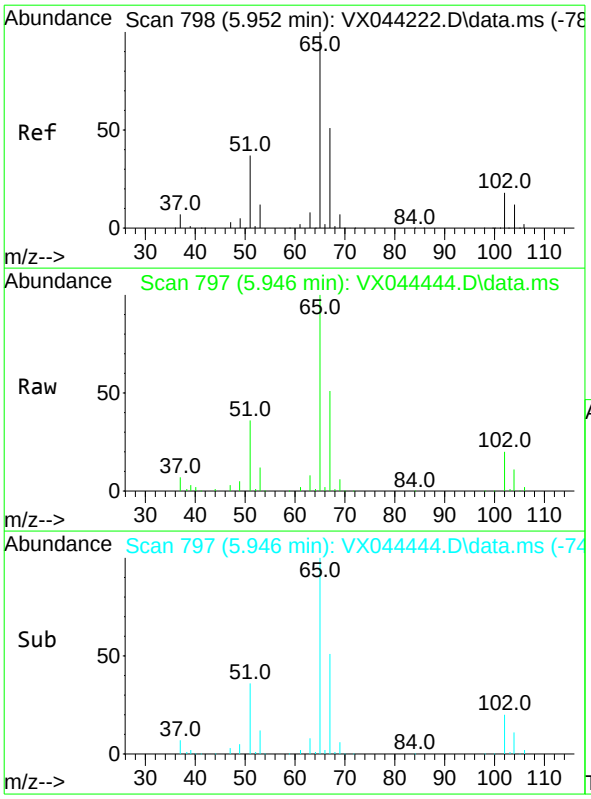


#27
cis-1,2-Dichloroethene
Concen: 0.340 ug/l
RT: 4.501 min Scan# 560
Delta R.T. 0.018 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Tgt Ion: 96 Resp: 609

Ion	Ratio	Lower	Upper
96	100		
61	159.8	0.0	299.0
98	66.2	0.0	129.0



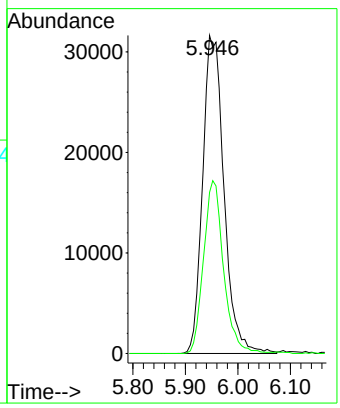


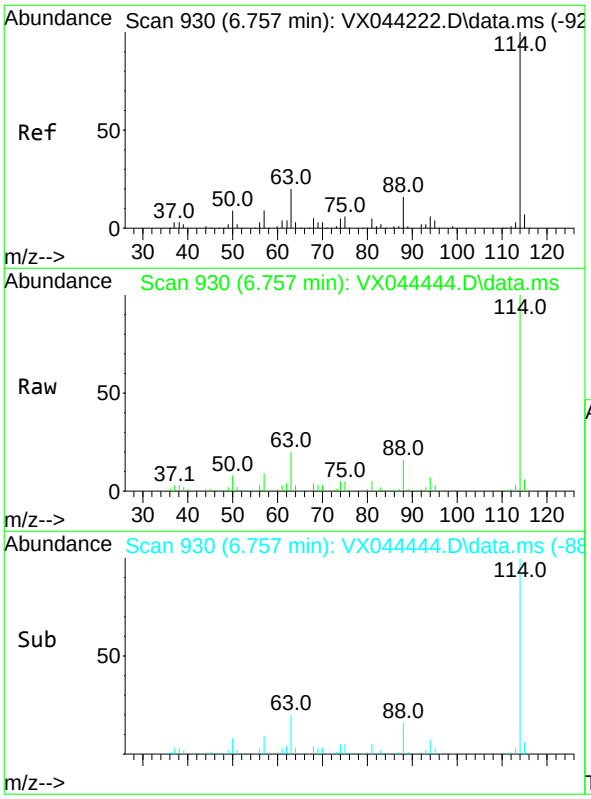
#33
1,2-Dichloroethane-d4
Concen: 42.927 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212DL

Tgt Ion: 65 Resp: 89218

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	101.6

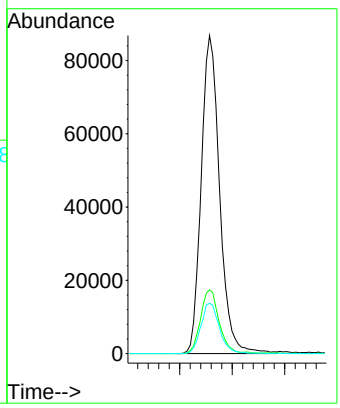


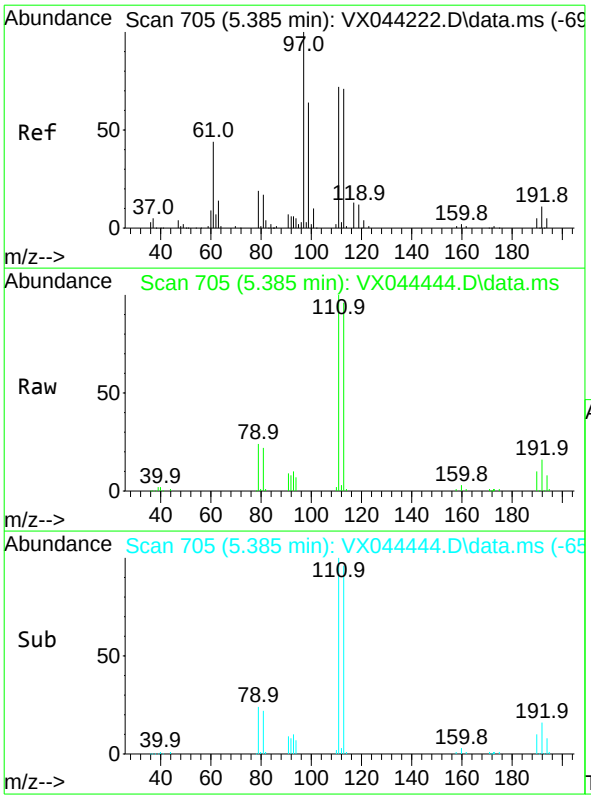


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Tgt Ion:114 Resp: 211612

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.6
88	15.8	0.0	31.8



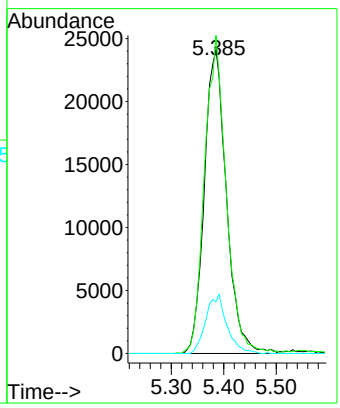


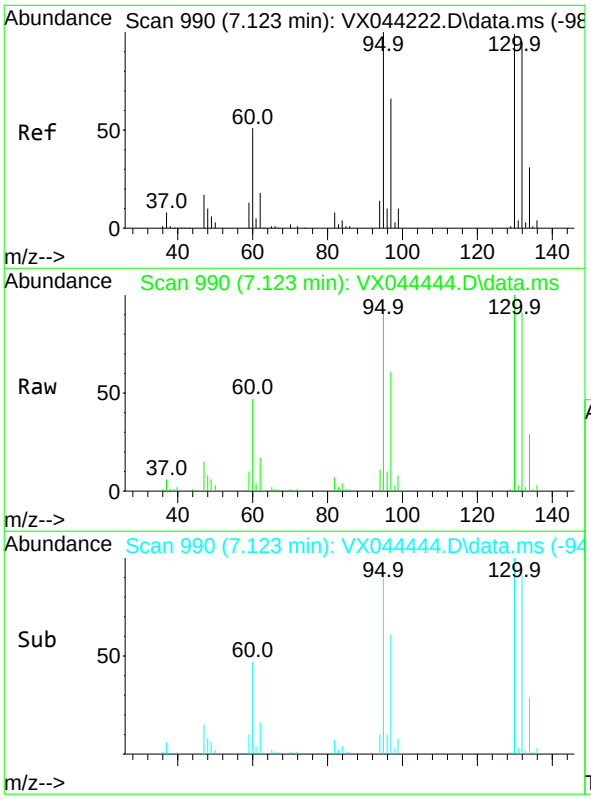
#35
Dibromofluoromethane
Concen: 48.272 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212DL

Tgt Ion:113 Resp: 70747

Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.4	120.6
192	18.4	13.3	19.9

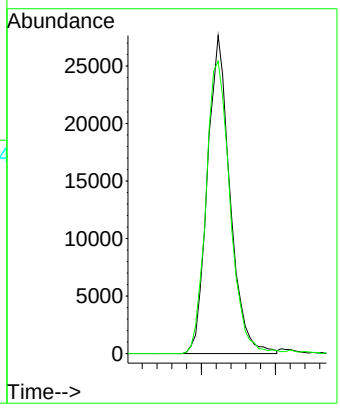


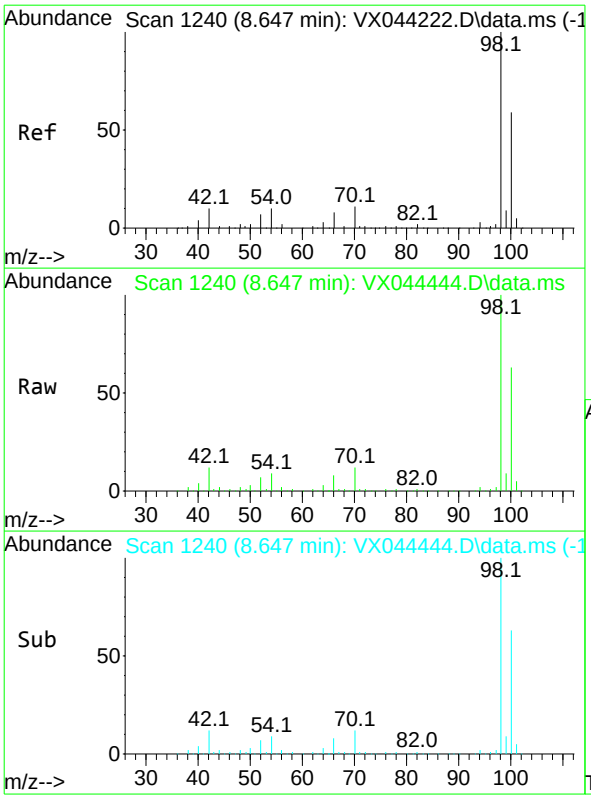


#44
Trichloroethene
Concen: 40.920 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Tgt Ion:130 Resp: 58695

Ion	Ratio	Lower	Upper
130	100		
95	91.9	0.0	201.4



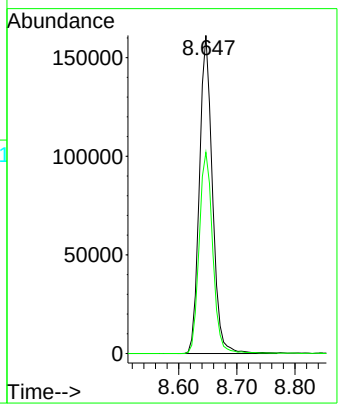


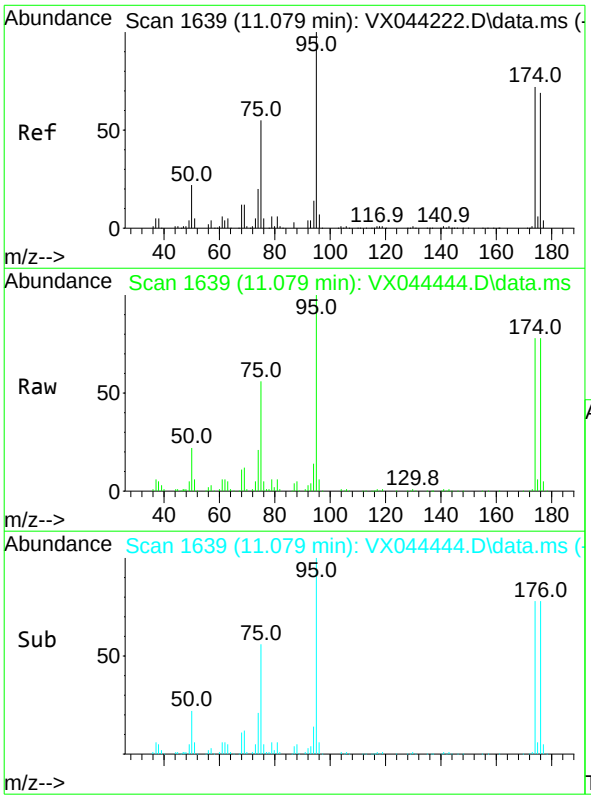
#50
Toluene-d8
Concen: 50.741 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212DL

Tgt Ion: 98 Resp: 250889

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.5	77.3

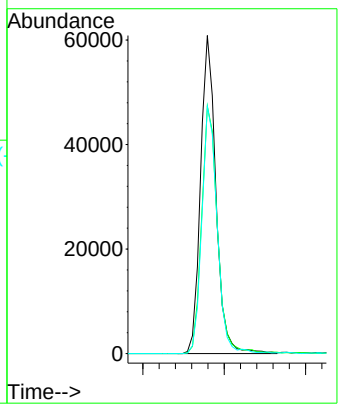


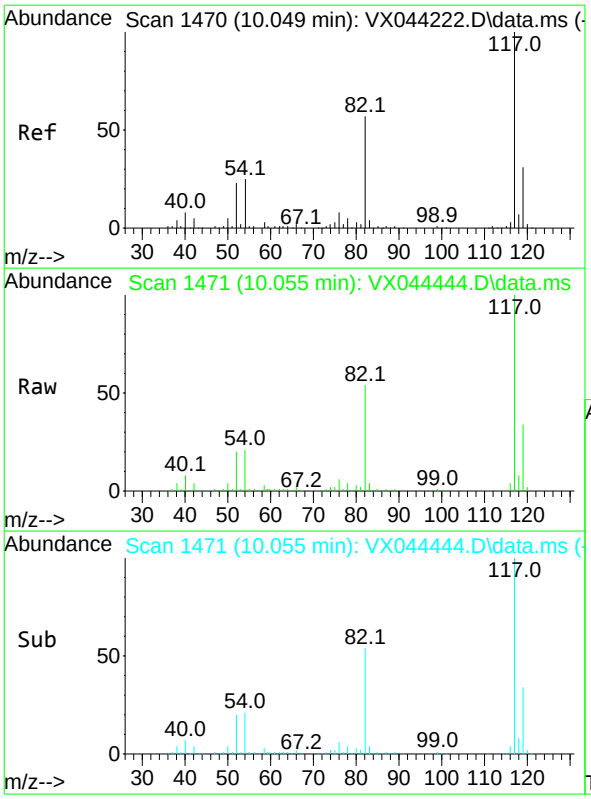


#62
4-Bromofluorobenzene
Concen: 46.275 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Tgt Ion: 95 Resp: 79951

Ion	Ratio	Lower	Upper
95	100		
174	79.9	0.0	145.8
176	77.5	0.0	137.8



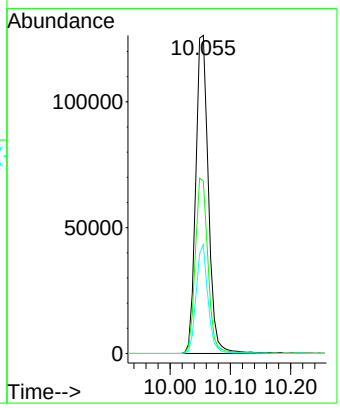


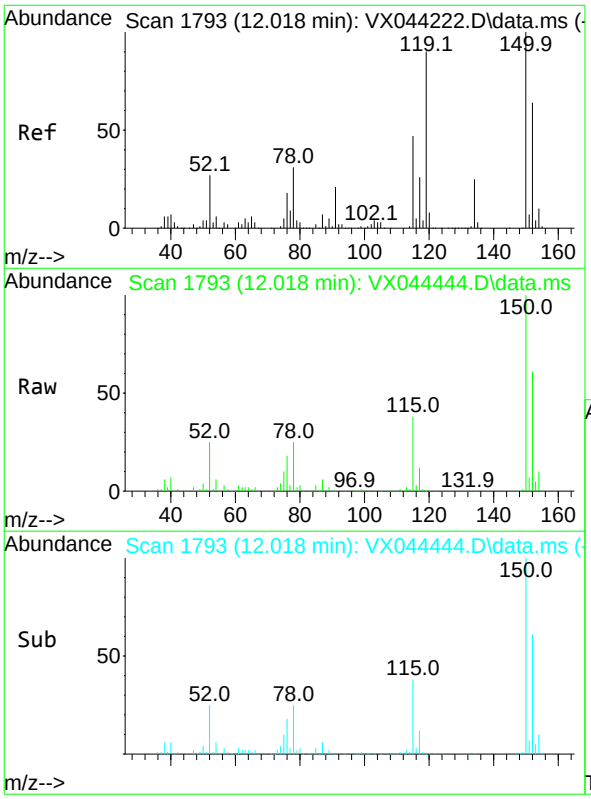
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Instrument :
MSVOA_X
ClientSampleId :
RE114D1-20241212DL

Tgt Ion:117 Resp: 184574

Ion	Ratio	Lower	Upper
117	100		
82	54.2	45.8	68.8
119	34.2	25.0	37.4

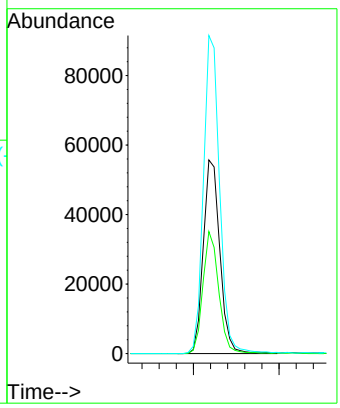




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044444.D
Acq: 20 Dec 2024 12:03

Tgt Ion:152 Resp: 74955

Ion	Ratio	Lower	Upper
152	100		
115	60.1	44.5	133.3
150	160.4	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW1-7-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-02	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
VX044451.D	1		12/20/24 14:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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	0.61	J	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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW1-7-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-02	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
VX044451.D	1		12/20/24 14:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.4		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		85 - 114		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	117000	5.55				
540-36-3	1,4-Difluorobenzene	206000	6.757				
3114-55-4	Chlorobenzene-d5	173000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	66500	12.024				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW1-7-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-02	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
VX044451.D	1		12/20/24 14:46	VX122024

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\VX122024\
Data File : VX044451.D
Acq On : 20 Dec 2024 14:46
Operator : JC/MD
Sample : P5281-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-7-20241212

Quant Time: Dec 20 22:25:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

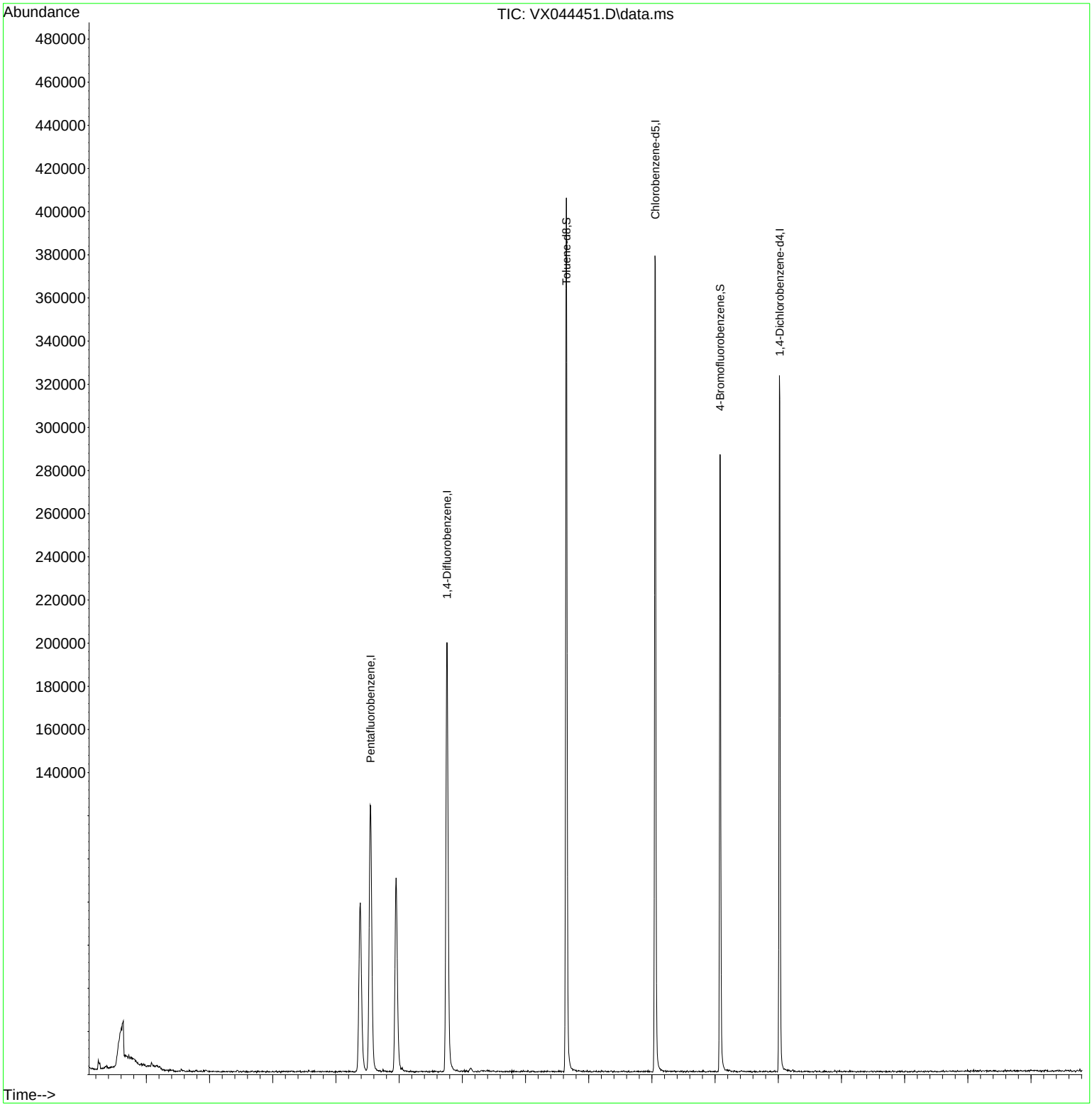
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	117082	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	205938	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	173219	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	66450	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86944	42.353	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 84.700%			
35) Dibromofluoromethane	5.379	113	67575	47.378	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.760%			
50) Toluene-d8	8.647	98	242944	50.488	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.980%			
62) 4-Bromofluorobenzene	11.079	95	73620	43.785	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 87.560%			
Target Compounds						Qvalue
44) Trichloroethene	7.147	130	849	0.608	ug/l	36

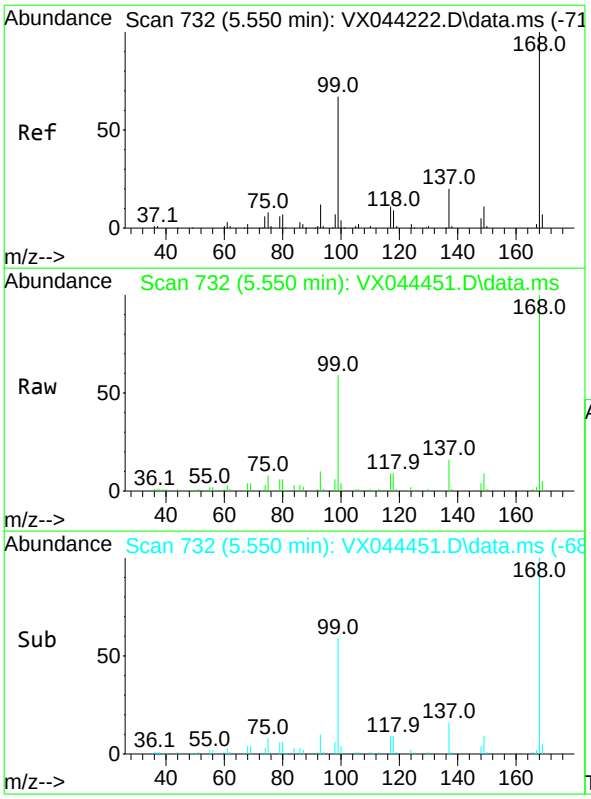
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044451.D
Acq On : 20 Dec 2024 14:46
Operator : JC/MD
Sample : P5281-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-7-20241212

Quant Time: Dec 20 22:25:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



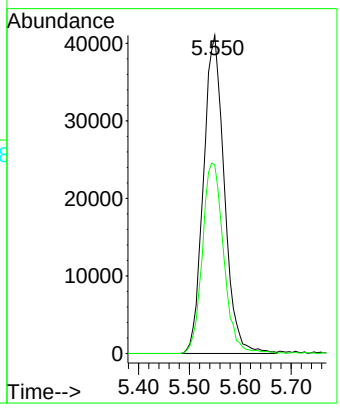


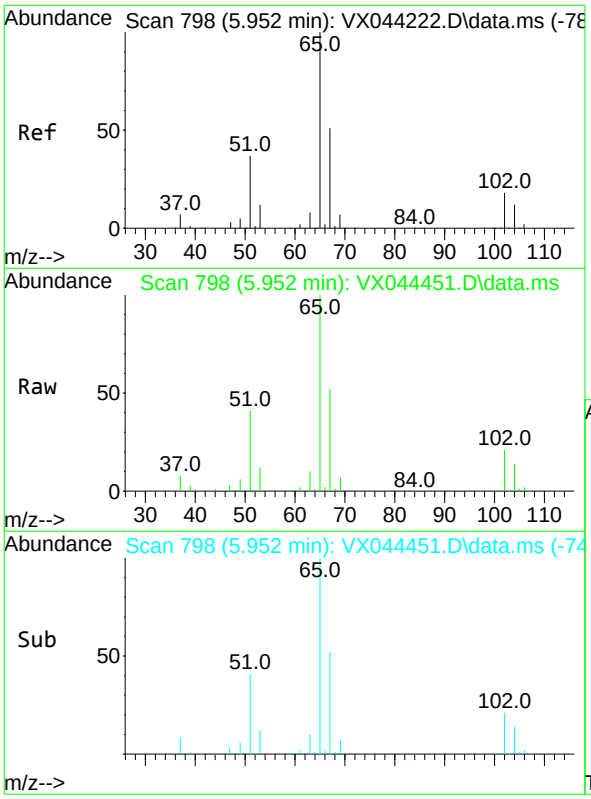
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:168 Resp: 117082

Ion	Ratio	Lower	Upper
168	100		
99	59.3	53.4	80.0

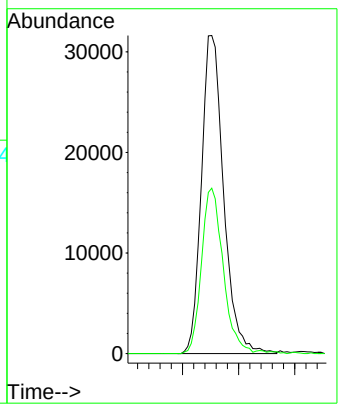


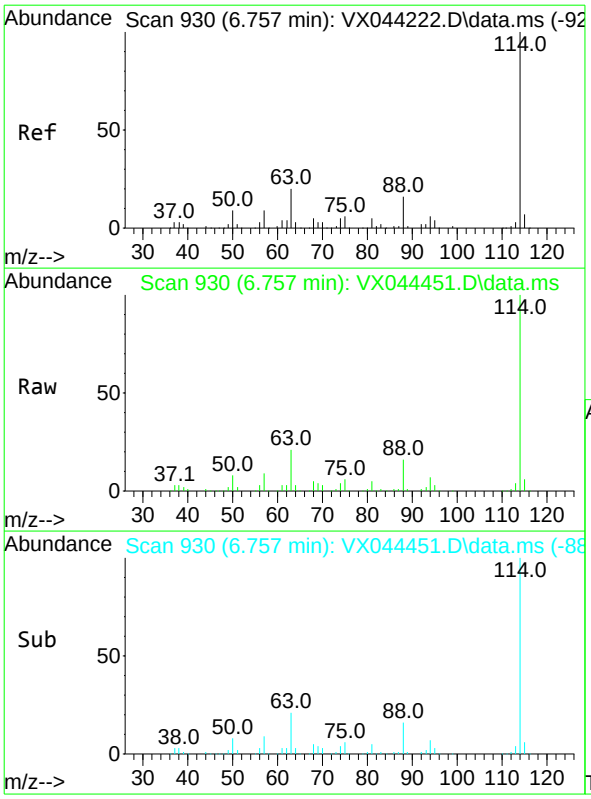


#33
1,2-Dichloroethane-d4
Concen: 42.353 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Tgt Ion: 65 Resp: 86944

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	101.6



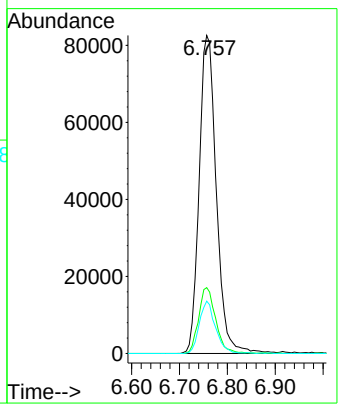


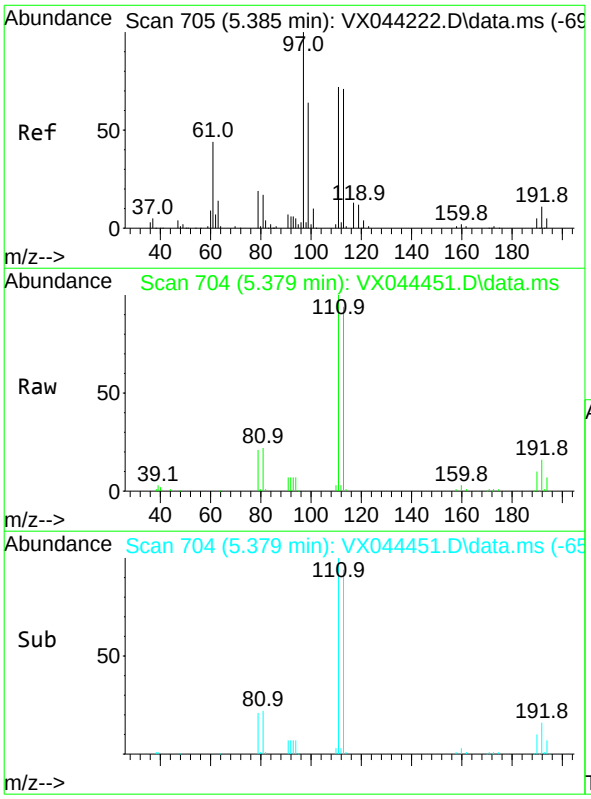
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:114 Resp: 205938

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.6
88	16.5	0.0	31.8

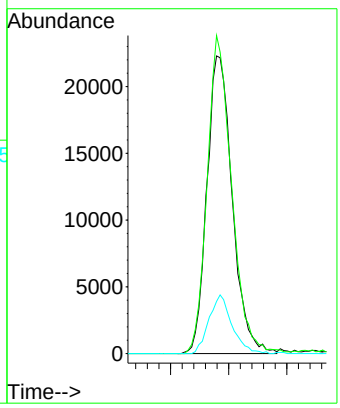


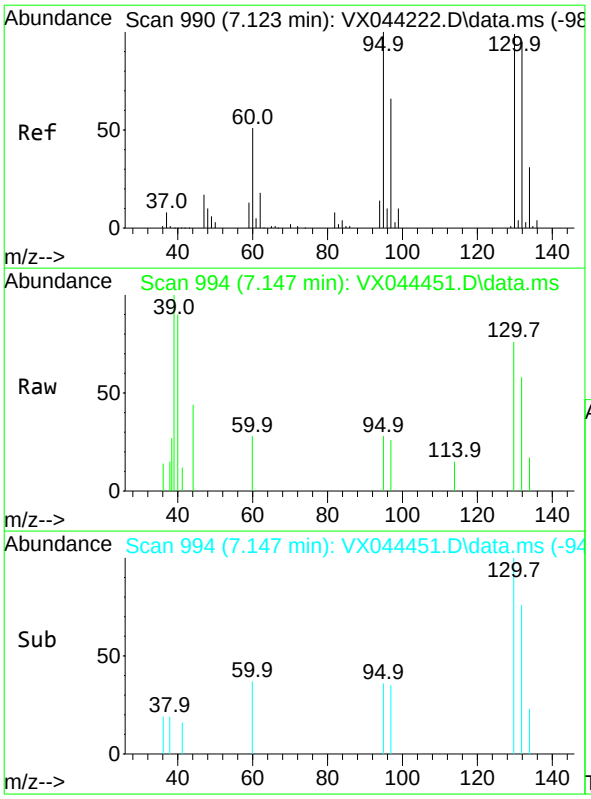


#35
Dibromofluoromethane
Concen: 47.378 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Tgt Ion:113 Resp: 67575

Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.4	120.6
192	17.9	13.3	19.9



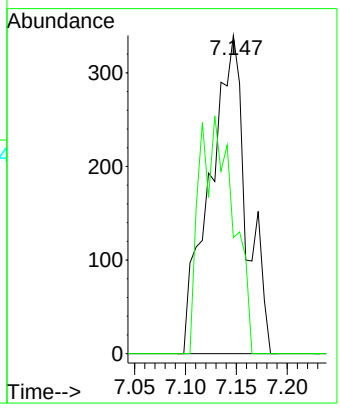


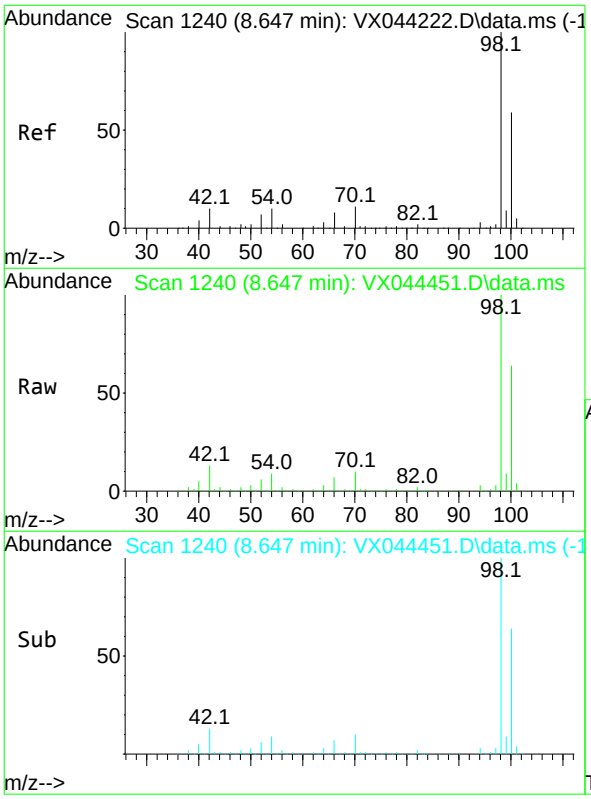
#44
Trichloroethene
Concen: 0.608 ug/l
RT: 7.147 min Scan# 99
Delta R.T. 0.024 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:130 Resp: 849

Ion	Ratio	Lower	Upper
130	100		
95	36.5	0.0	201.4

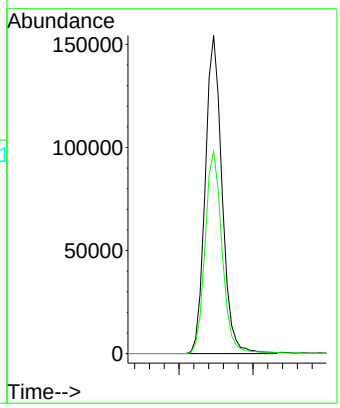


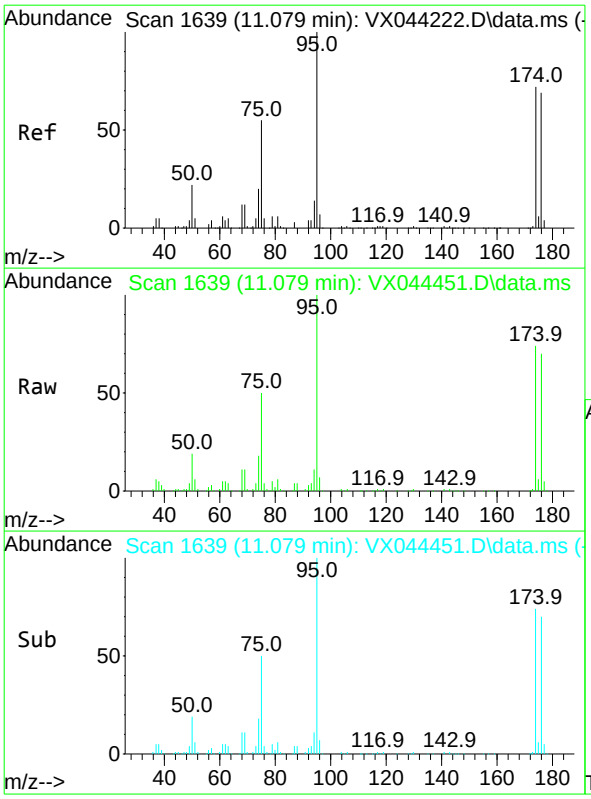


#50
Toluene-d8
Concen: 50.488 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Tgt Ion: 98 Resp: 242944

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3



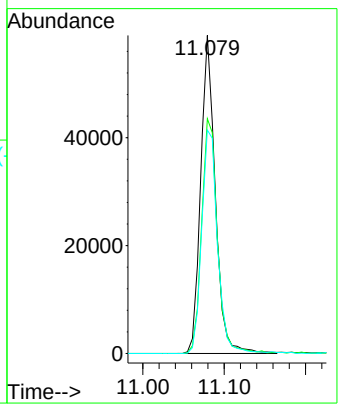


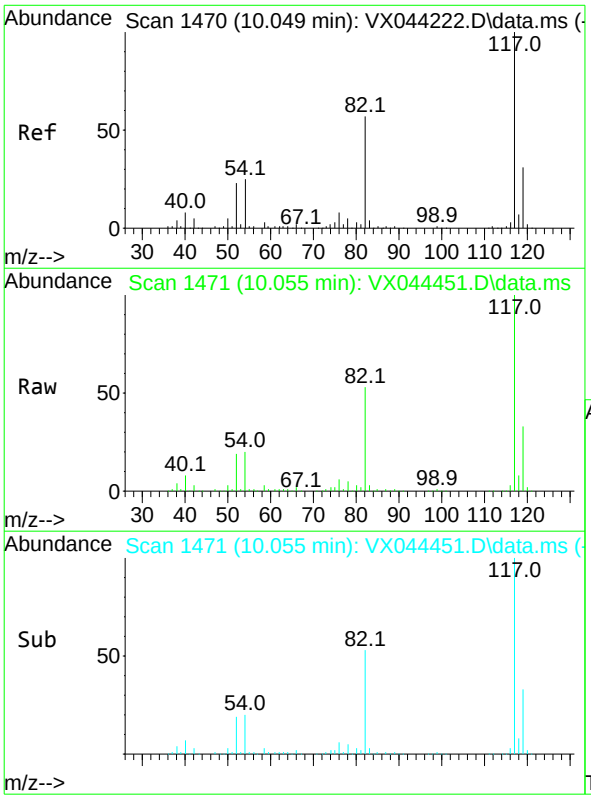
#62
4-Bromofluorobenzene
Concen: 43.785 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-7-20241212

Tgt Ion: 95 Resp: 73620

Ion	Ratio	Lower	Upper
95	100		
174	79.2	0.0	145.8
176	76.0	0.0	137.8

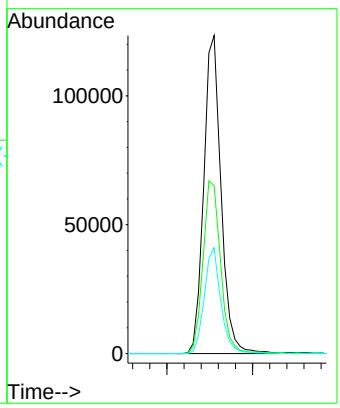


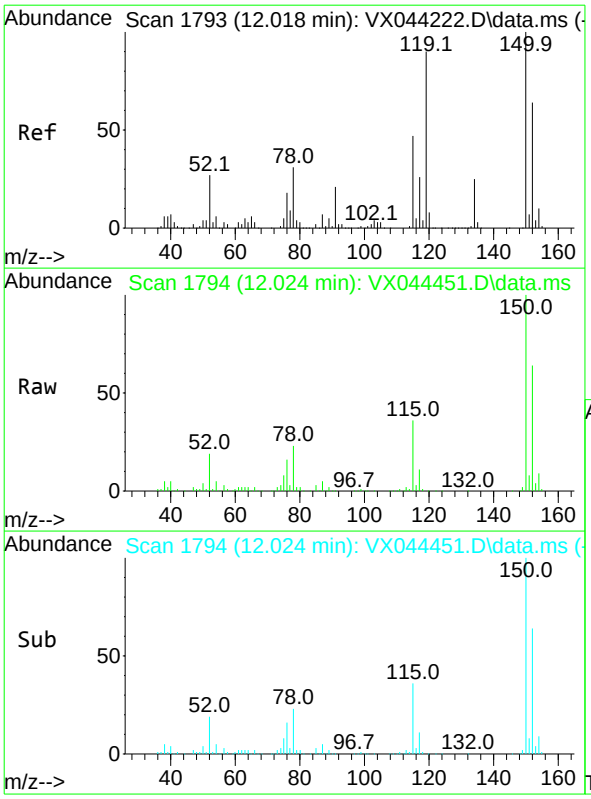


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Tgt Ion:117 Resp: 173219

Ion	Ratio	Lower	Upper
117	100		
82	52.7	45.8	68.8
119	33.3	25.0	37.4



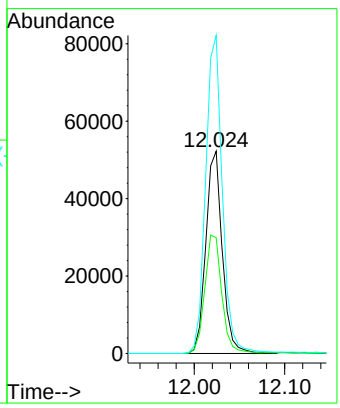


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044451.D
Acq: 20 Dec 2024 14:46

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-7-20241212

Tgt Ion:152 Resp: 66450

Ion	Ratio	Lower	Upper
152	100		
115	60.7	44.5	133.3
150	160.2	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW1-8-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-03	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
VX044390.D	1		12/18/24 17:55	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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	0.59	J	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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW1-8-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-03	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
VX044390.D	1		12/18/24 17:55	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.5		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	51.6		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	114000	5.543				
540-36-3	1,4-Difluorobenzene	208000	6.757				
3114-55-4	Chlorobenzene-d5	184000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	77800	12.018				

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Fax : 908 789 8922

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	BPOW1-8-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-03	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
VX044390.D	1		12/18/24 17:55	VX121824

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\VX121824\
Data File : VX044390.D
Acq On : 18 Dec 2024 17:55
Operator : JC/MD
Sample : P5281-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-8-20241212

Quant Time: Dec 19 00:50:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

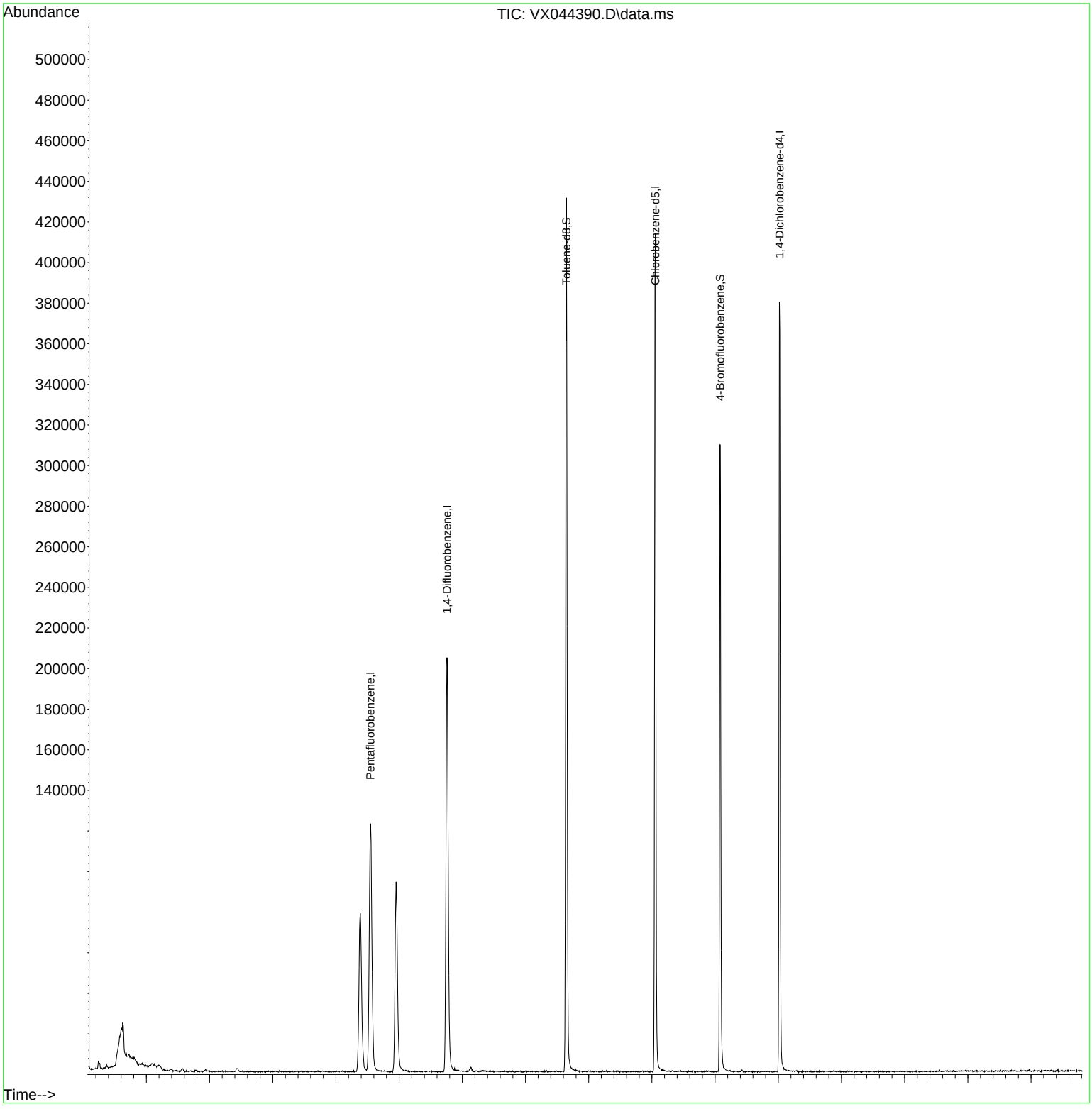
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	114414	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	208386	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	184180	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	77822	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89181	44.456	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.920%			
35) Dibromofluoromethane	5.385	113	67860	47.018	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.040%			
50) Toluene-d8	8.646	98	251206	51.591	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.180%			
62) 4-Bromofluorobenzene	11.079	95	81372	47.826	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.660%			
Target Compounds						Qvalue
16) Acetone	2.379	43	900	1.100	ug/l	99
44) Trichloroethene	7.135	130	837	0.593	ug/l	91

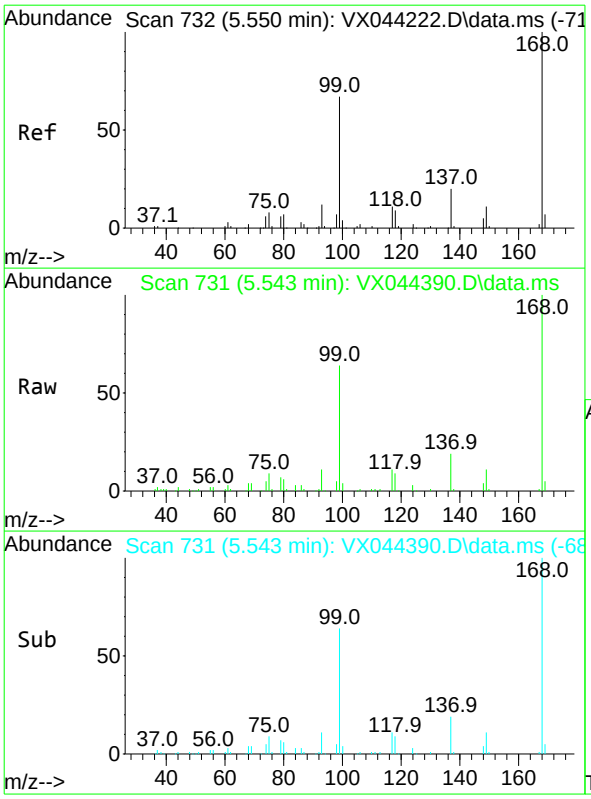
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044390.D
Acq On : 18 Dec 2024 17:55
Operator : JC/MD
Sample : P5281-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-8-20241212

Quant Time: Dec 19 00:50:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



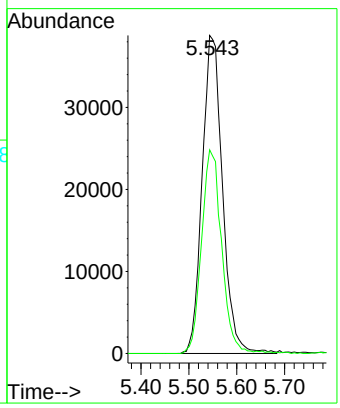


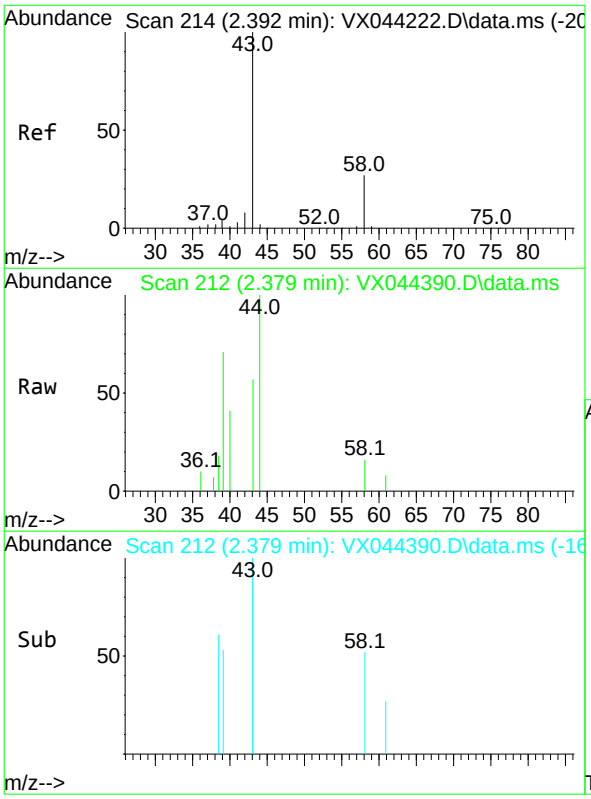
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 73
Delta R.T. -0.007 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:168 Resp: 114414

Ion	Ratio	Lower	Upper
168	100		
99	64.0	53.4	80.0

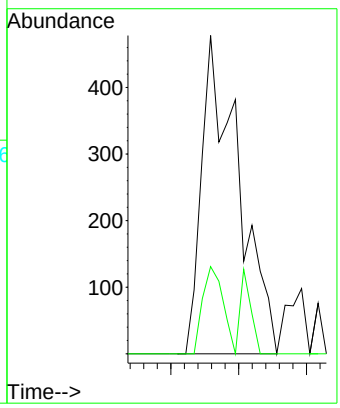


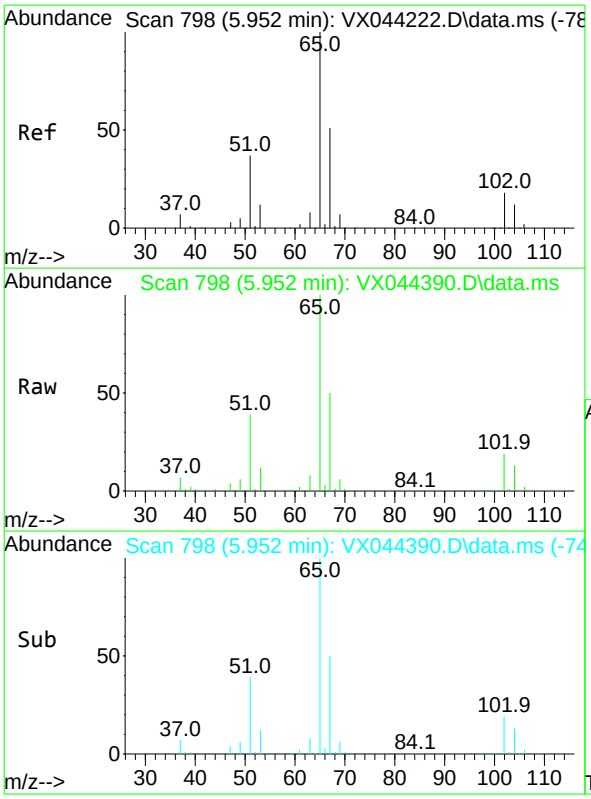


#16
Acetone
Concen: 1.100 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.013 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Tgt Ion: 43 Resp: 900

Ion	Ratio	Lower	Upper
43	100		
58	27.4	21.6	32.4



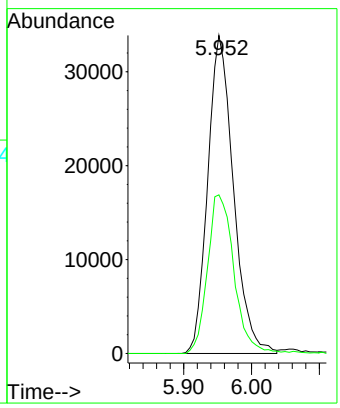


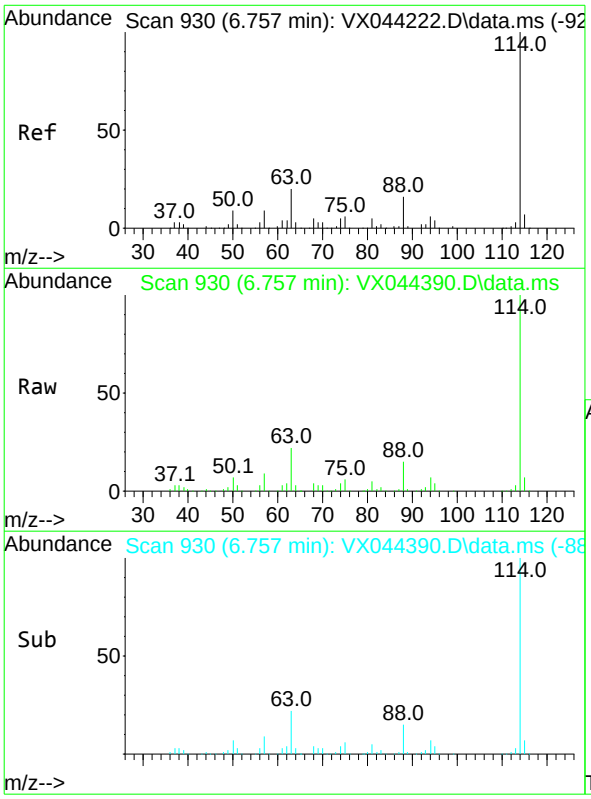
#33
1,2-Dichloroethane-d4
Concen: 44.456 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-8-20241212

Tgt Ion: 65 Resp: 89181

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	101.6

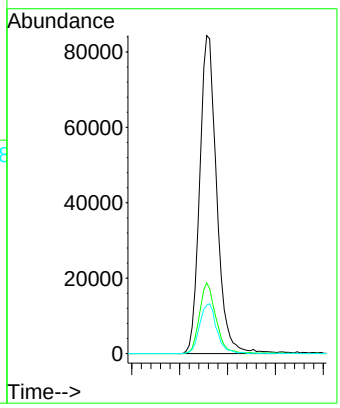


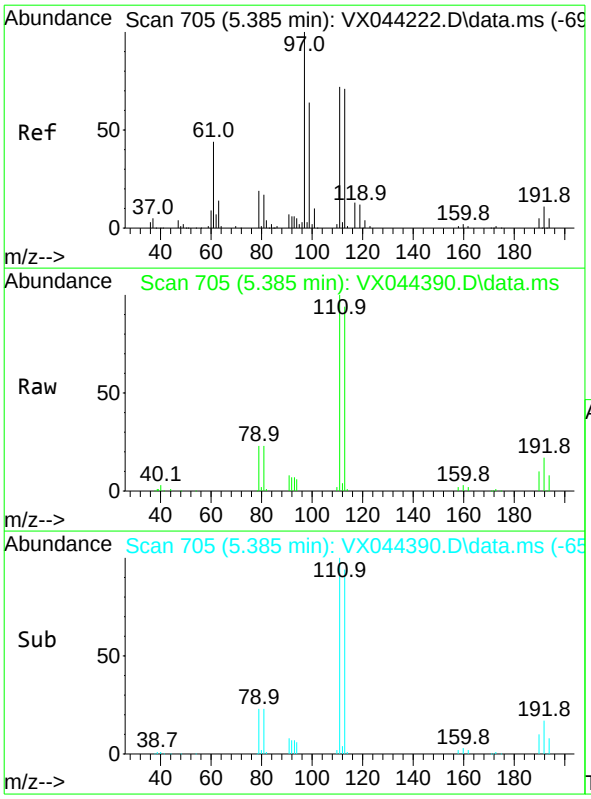


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Tgt Ion:114 Resp: 208386

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	40.6
88	15.2	0.0	31.8



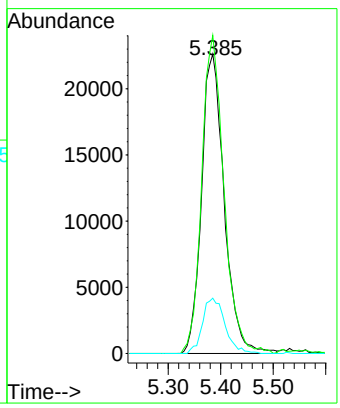


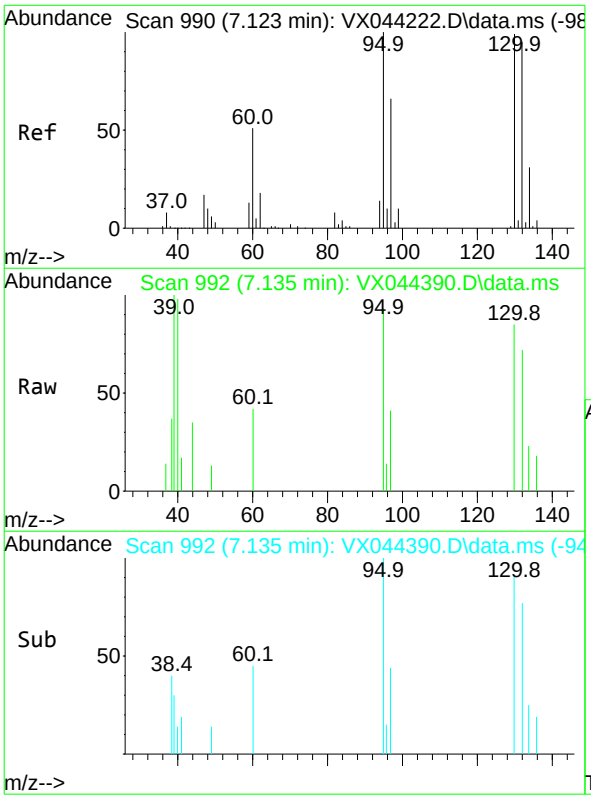
#35
Dibromofluoromethane
Concen: 47.018 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:113 Resp: 67860

Ion	Ratio	Lower	Upper
113	100		
111	104.0	80.4	120.6
192	18.4	13.3	19.9

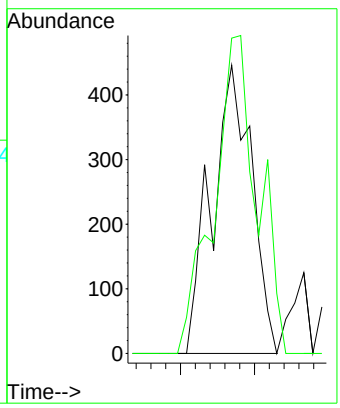


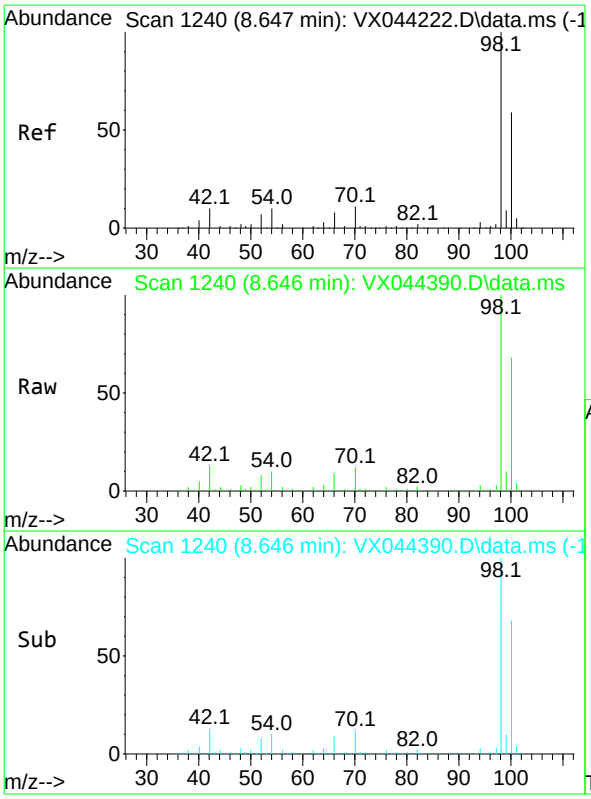


#44
Trichloroethene
Concen: 0.593 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.012 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Tgt Ion:130 Resp: 837

Ion	Ratio	Lower	Upper
130	100		
95	109.4	0.0	201.4



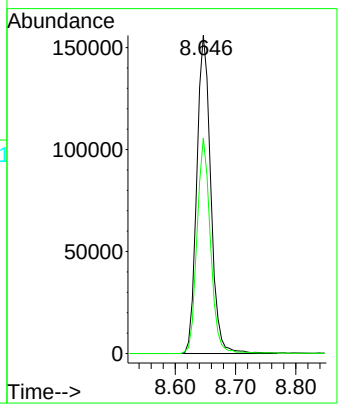


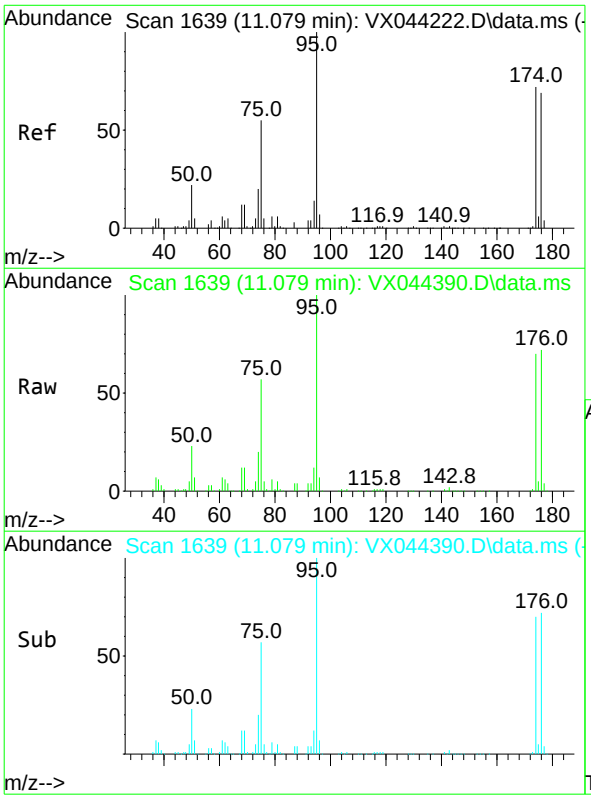
#50
Toluene-d8
Concen: 51.591 ug/l
RT: 8.646 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-8-20241212

Tgt Ion: 98 Resp: 251206

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.5	77.3

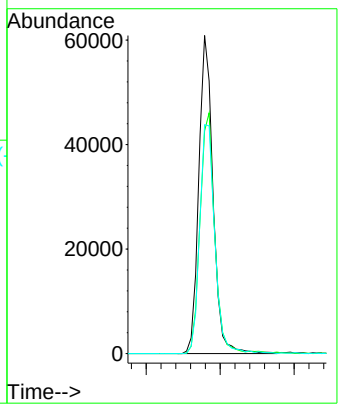


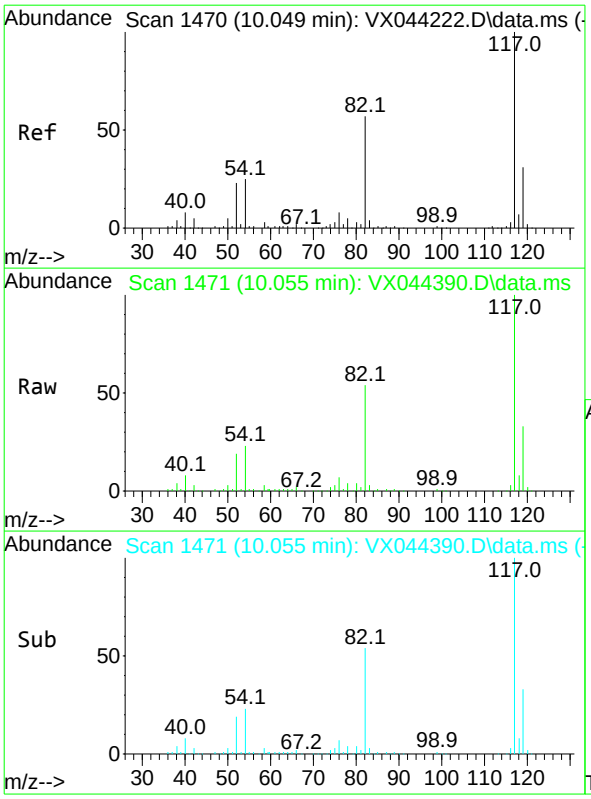


#62
4-Bromofluorobenzene
Concen: 47.826 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Tgt Ion: 95 Resp: 81372

Ion	Ratio	Lower	Upper
95	100		
174	77.0	0.0	145.8
176	76.7	0.0	137.8



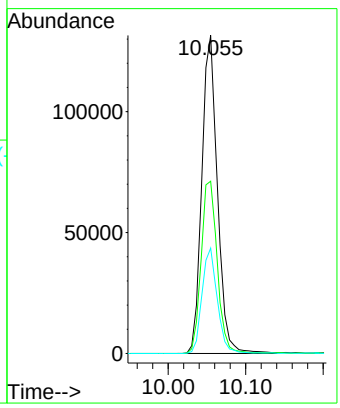


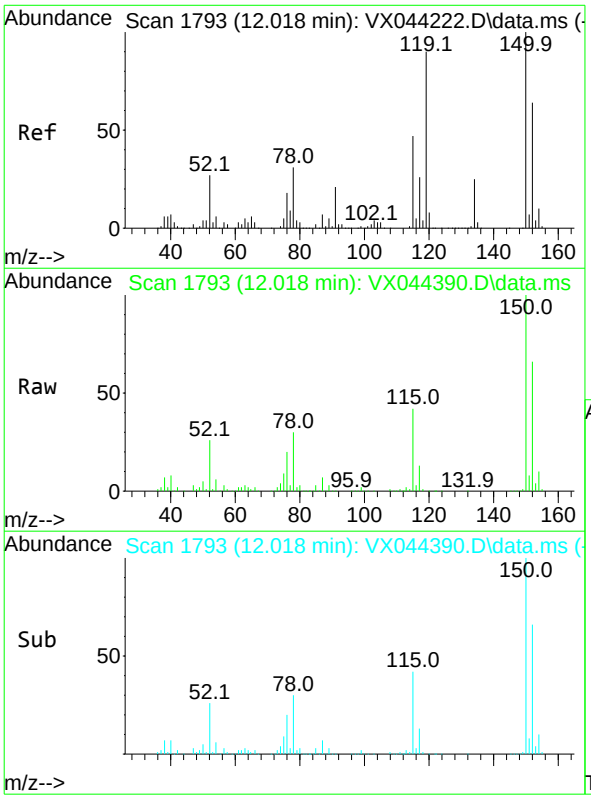
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Instrument :
MSVOA_X
ClientSampleId :
BPOW1-8-20241212

Tgt Ion:117 Resp: 184180

Ion	Ratio	Lower	Upper
117	100		
82	54.2	45.8	68.8
119	33.1	25.0	37.4

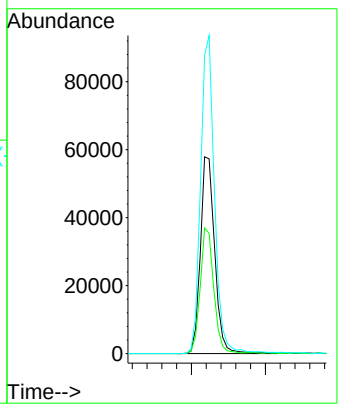




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044390.D
Acq: 18 Dec 2024 17:55

Tgt Ion:152 Resp: 77822

Ion	Ratio	Lower	Upper
152	100		
115	60.4	44.5	133.3
150	157.6	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT101D2-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-04	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
VX044381.D	40		12/18/24 14:24	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.0	U	8.40	20.0	40.0	ug/L
74-87-3	Chloromethane	20.0	U	14.0	20.0	40.0	ug/L
75-01-4	Vinyl Chloride	30.0	U	13.6	30.0	40.0	ug/L
74-83-9	Bromomethane	150	U	54.4	150	200	ug/L
75-00-3	Chloroethane	30.0	U	22.4	30.0	40.0	ug/L
75-69-4	Trichlorofluoromethane	20.0	U	13.6	20.0	40.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	32.4	J	10.0	20.0	40.0	ug/L
75-35-4	1,1-Dichloroethene	13.2	J	10.4	30.0	40.0	ug/L
67-64-1	Acetone	150	U	55.6	150	200	ug/L
75-15-0	Carbon Disulfide	30.0	U	12.8	30.0	40.0	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0	U	6.40	20.0	40.0	ug/L
79-20-9	Methyl Acetate	30.0	U	24.0	30.0	40.0	ug/L
75-09-2	Methylene Chloride	20.0	U	12.8	20.0	40.0	ug/L
156-60-5	trans-1,2-Dichloroethene	20.0	U	10.0	20.0	40.0	ug/L
75-34-3	1,1-Dichloroethane	20.0	U	9.20	20.0	40.0	ug/L
110-82-7	Cyclohexane	100	U	64.8	100	200	ug/L
78-93-3	2-Butanone	100	U	52.0	100	200	ug/L
56-23-5	Carbon Tetrachloride	20.0	U	10.0	20.0	40.0	ug/L
156-59-2	cis-1,2-Dichloroethene	30.0	U	10.0	30.0	40.0	ug/L
74-97-5	Bromochloromethane	20.0	U	7.20	20.0	40.0	ug/L
67-66-3	Chloroform	20.0	U	10.4	20.0	40.0	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	U	7.60	20.0	40.0	ug/L
108-87-2	Methylcyclohexane	20.0	U	7.60	20.0	40.0	ug/L
71-43-2	Benzene	20.0	U	6.40	20.0	40.0	ug/L
107-06-2	1,2-Dichloroethane	20.0	U	9.60	20.0	40.0	ug/L
79-01-6	Trichloroethene	1600		12.8	30.0	40.0	ug/L
78-87-5	1,2-Dichloropropane	20.0	U	7.60	20.0	40.0	ug/L
75-27-4	Bromodichloromethane	20.0	U	9.60	20.0	40.0	ug/L
108-10-1	4-Methyl-2-Pentanone	100	U	30.0	100	200	ug/L
108-88-3	Toluene	20.0	U	7.20	20.0	40.0	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT101D2-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-04	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
VX044381.D	40		12/18/24 14:24	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.0	U	8.40	20.0	40.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0	U	7.20	20.0	40.0	ug/L
79-00-5	1,1,2-Trichloroethane	20.0	U	8.40	20.0	40.0	ug/L
591-78-6	2-Hexanone	100	U	45.2	100	200	ug/L
124-48-1	Dibromochloromethane	20.0	U	7.20	20.0	40.0	ug/L
106-93-4	1,2-Dibromoethane	20.0	U	6.40	20.0	40.0	ug/L
127-18-4	Tetrachloroethene	20.0	U	10.0	20.0	40.0	ug/L
108-90-7	Chlorobenzene	20.0	U	5.20	20.0	40.0	ug/L
100-41-4	Ethyl Benzene	20.0	U	6.40	20.0	40.0	ug/L
179601-23-1	m/p-Xylenes	40.0	U	12.4	40.0	80.0	ug/L
95-47-6	o-Xylene	20.0	U	5.60	20.0	40.0	ug/L
100-42-5	Styrene	20.0	U	6.40	20.0	40.0	ug/L
75-25-2	Bromoform	20.0	U	8.40	20.0	40.0	ug/L
98-82-8	Isopropylbenzene	20.0	U	5.20	20.0	40.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0	U	10.8	20.0	40.0	ug/L
541-73-1	1,3-Dichlorobenzene	20.0	U	9.60	20.0	40.0	ug/L
106-46-7	1,4-Dichlorobenzene	20.0	U	10.8	20.0	40.0	ug/L
95-50-1	1,2-Dichlorobenzene	20.0	U	7.60	20.0	40.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	30.0	U	18.4	30.0	40.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	U	16.8	20.0	40.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	30.0	U	20.4	30.0	40.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.6		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	52.2		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		85 - 114		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	214000	6.757				
3114-55-4	Chlorobenzene-d5	187000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	76900	12.018				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/12/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT101D2-20241212	SDG No.:	P5281
Lab Sample ID:	P5281-04	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
VX044381.D	40		12/18/24 14:24	VX121824

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\VX121824\
Data File : VX044381.D
Acq On : 18 Dec 2024 14:24
Operator : JC/MD
Sample : P5281-04 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20241212

Quant Time: Dec 19 00:45:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

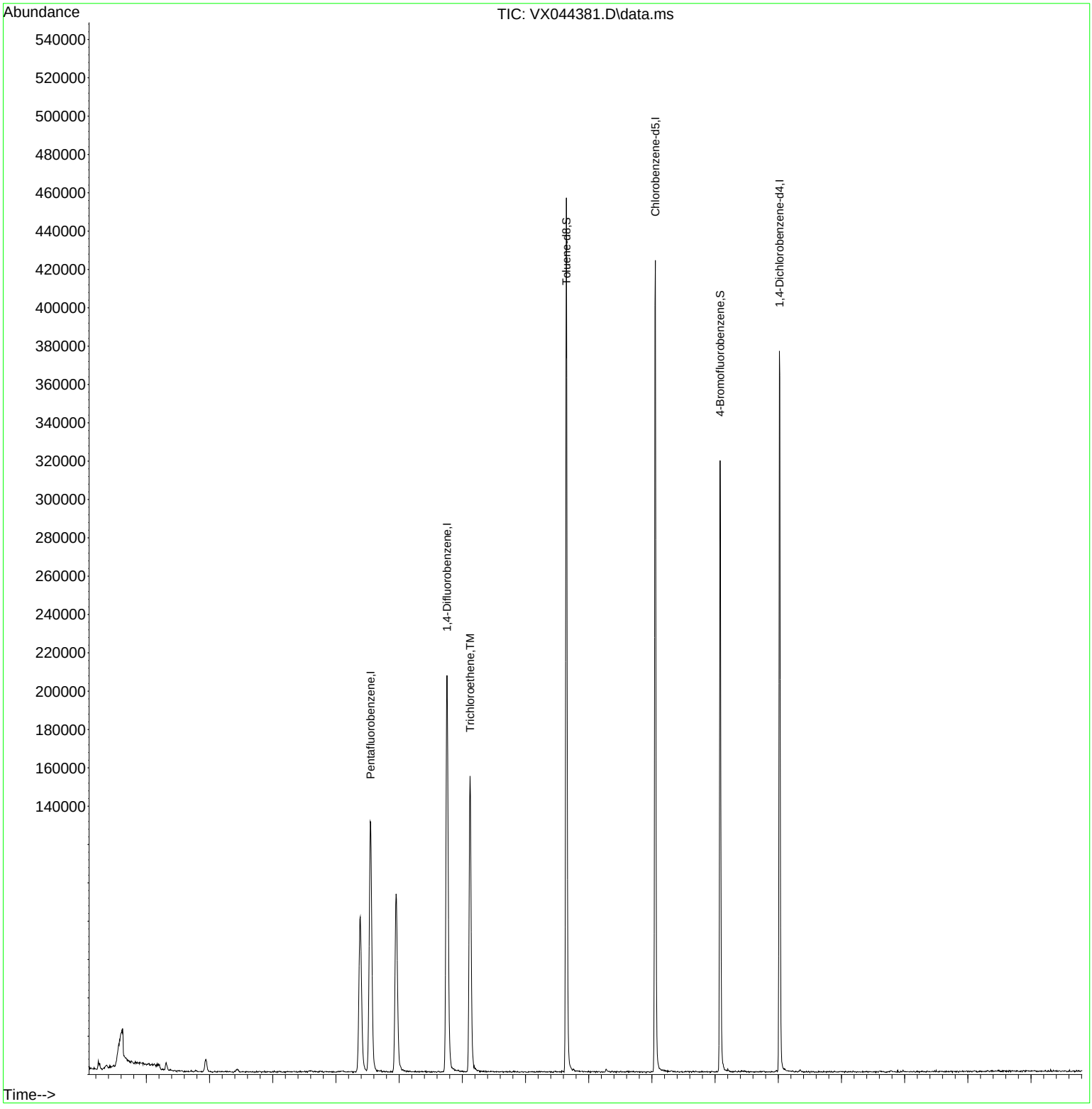
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	120810	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	214177	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	186747	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	92289	43.570	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.140%			
35) Dibromofluoromethane	5.379	113	69824	47.071	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.140%			
50) Toluene-d8	8.647	98	261153	52.184	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.360%			
62) 4-Bromofluorobenzene	11.079	95	82846	47.376	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.760%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.319	101	1194	0.810	ug/l #	88
12) 1,1-Dichloroethene	2.306	96	445	0.329	ug/l #	83
16) Acetone	2.386	43	650	0.753	ug/l #	76
44) Trichloroethene	7.123	130	58572	40.345	ug/l	96

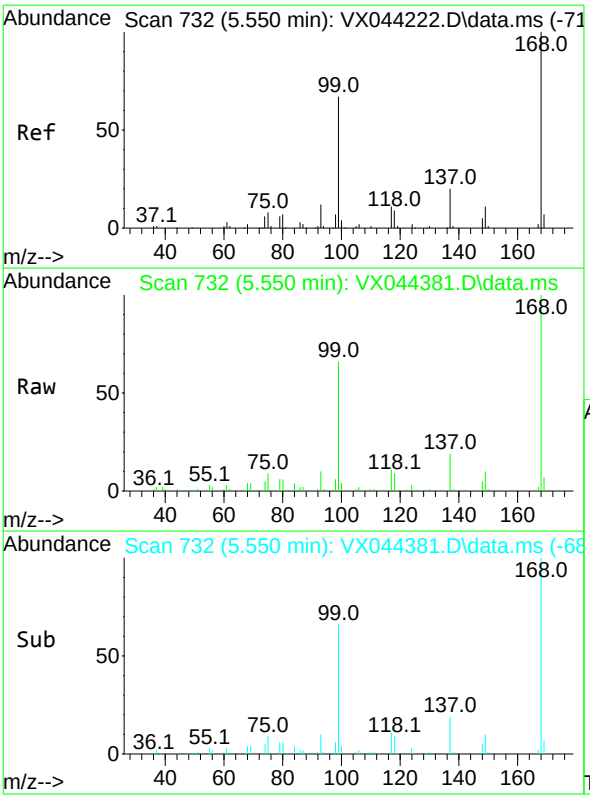
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044381.D
Acq On : 18 Dec 2024 14:24
Operator : JC/MD
Sample : P5281-04 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20241212

Quant Time: Dec 19 00:45:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



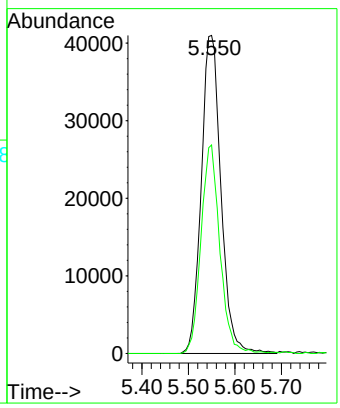


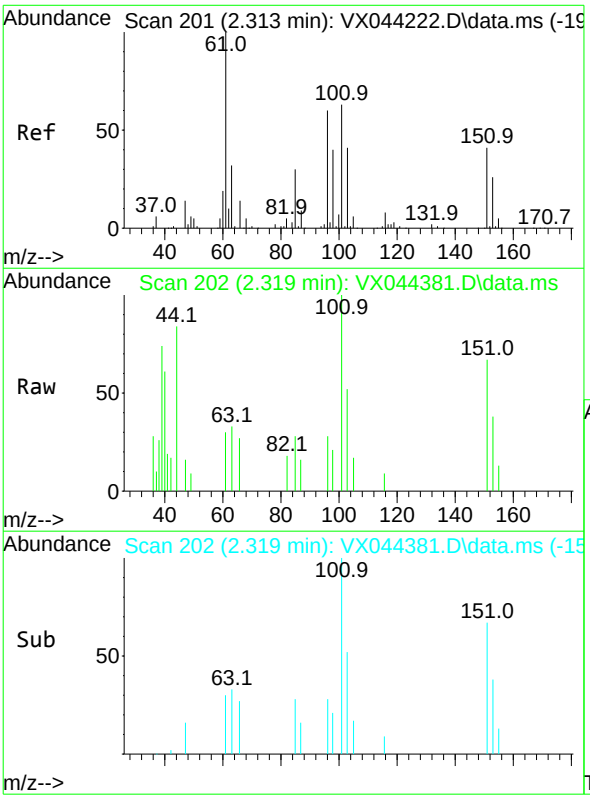
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20241212

Tgt Ion:168 Resp: 120810

Ion	Ratio	Lower	Upper
168	100		
99	65.6	53.4	80.0

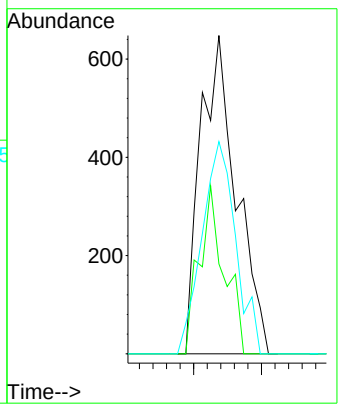


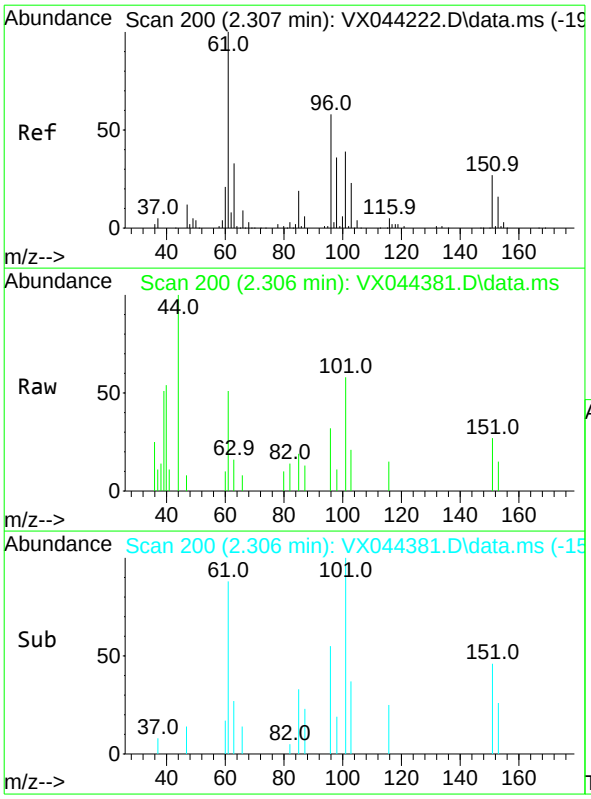


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.810 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Tgt Ion:101 Resp: 1194

Ion	Ratio	Lower	Upper
101	100		
85	36.5	38.5	57.7#
151	62.5	55.8	83.6



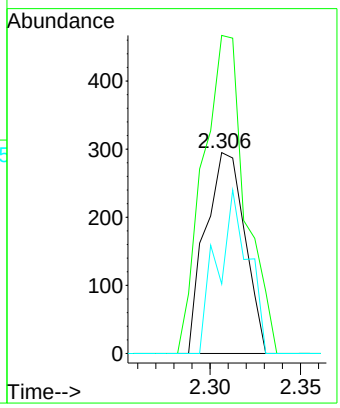


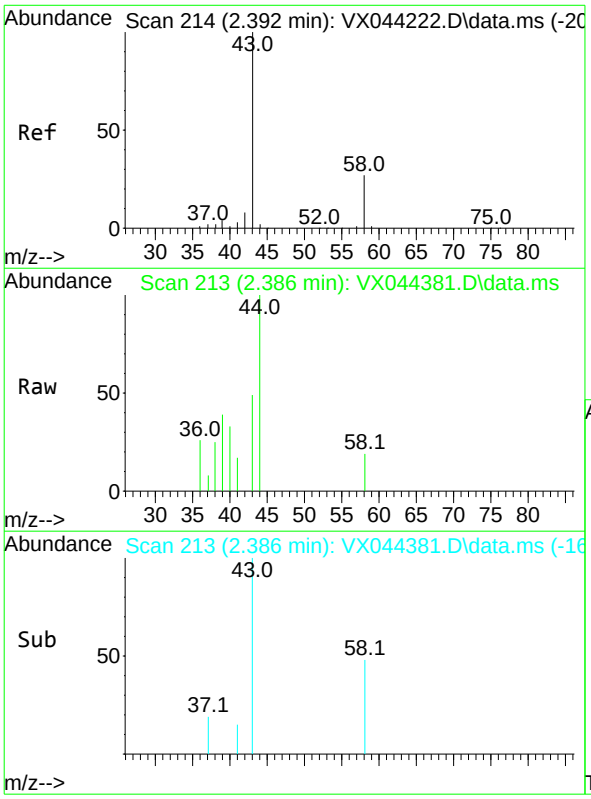
#12
1,1-Dichloroethene
Concen: 0.329 ug/l
RT: 2.306 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20241212

Tgt Ion: 96 Resp: 445

Ion	Ratio	Lower	Upper
96	100		
61	158.3	138.0	207.0
98	34.6	50.0	75.0#

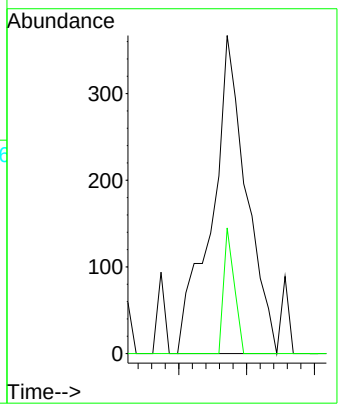


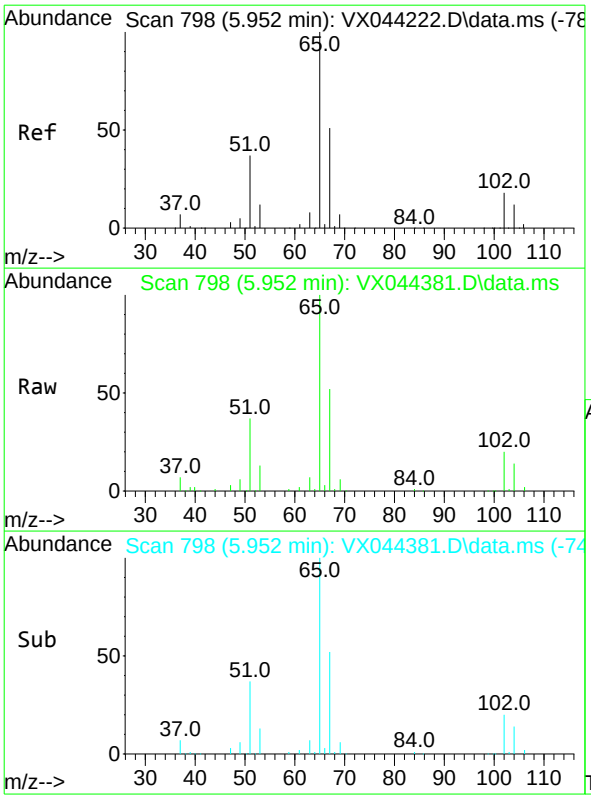


#16
Acetone
Concen: 0.753 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Tgt Ion: 43 Resp: 650

Ion	Ratio	Lower	Upper
43	100		
58	39.5	21.6	32.4#



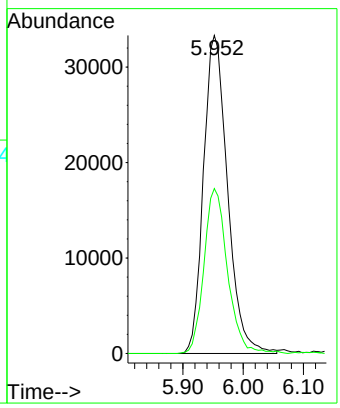


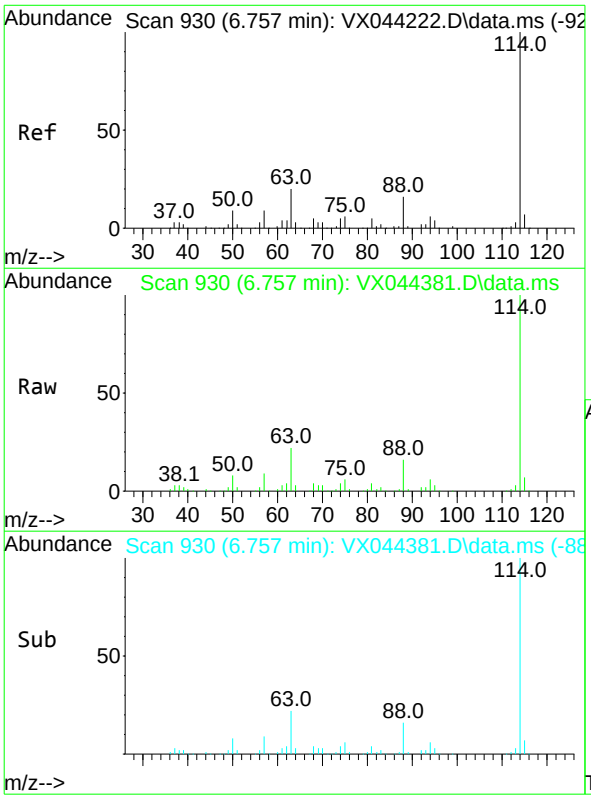
#33
1,2-Dichloroethane-d4
Concen: 43.570 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20241212

Tgt Ion: 65 Resp: 92289

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	101.6

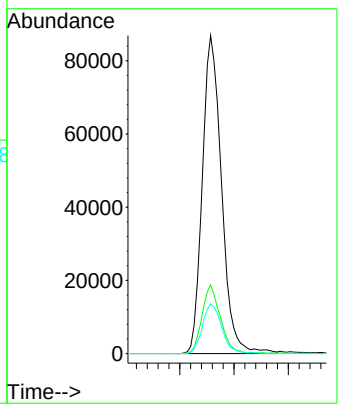


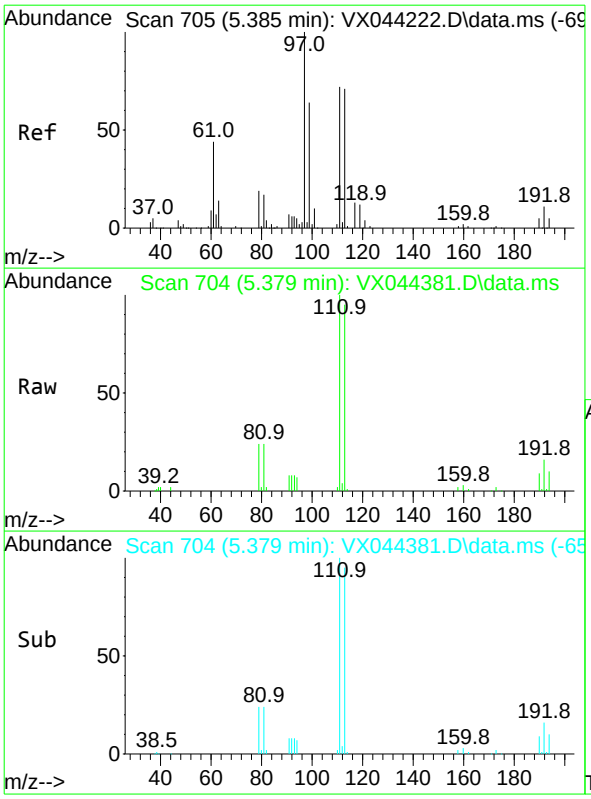


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Tgt Ion:114 Resp: 214177

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	40.6
88	15.7	0.0	31.8



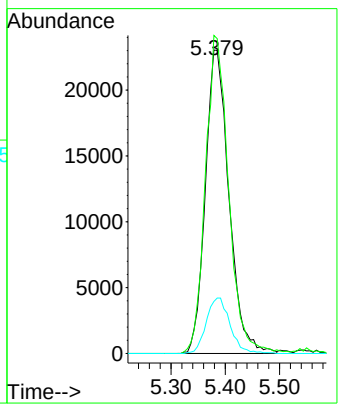


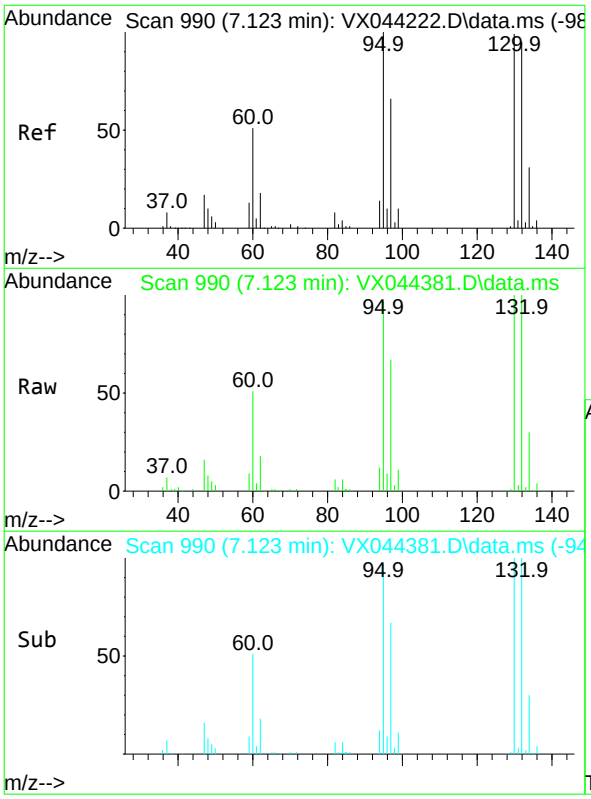
#35
Dibromofluoromethane
Concen: 47.071 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20241212

Tgt Ion:113 Resp: 69824

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.4	120.6
192	18.4	13.3	19.9

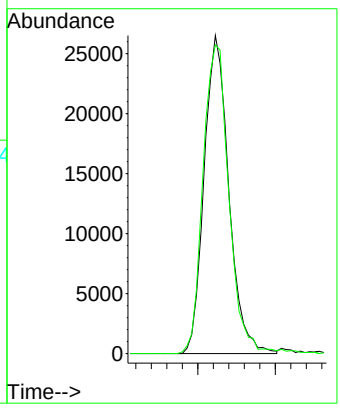


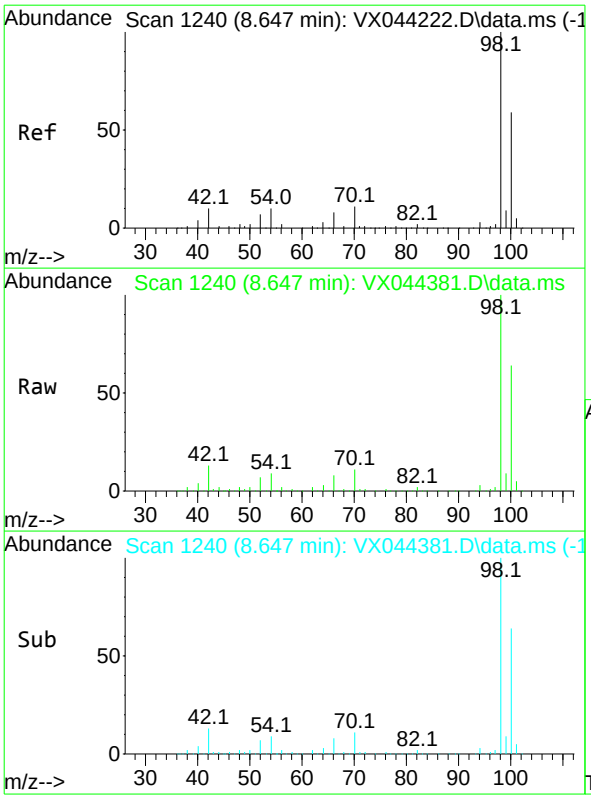


#44
Trichloroethene
Concen: 40.345 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Tgt Ion:130 Resp: 58572

Ion	Ratio	Lower	Upper
130	100		
95	97.0	0.0	201.4



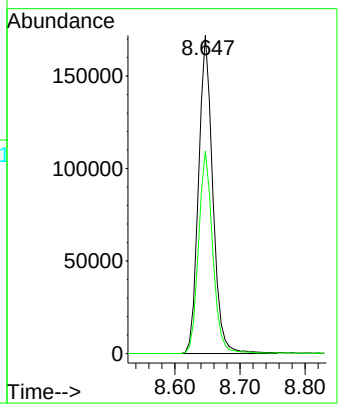


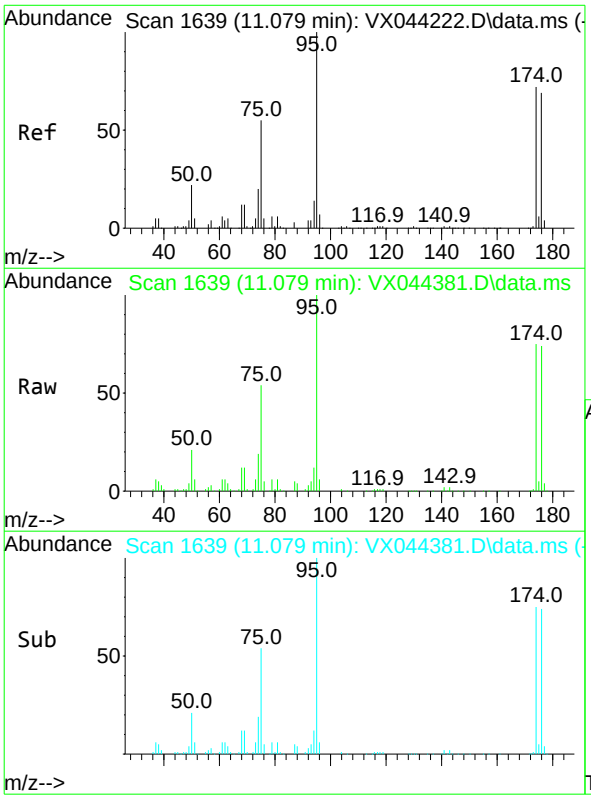
#50
Toluene-d8
Concen: 52.184 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20241212

Tgt Ion: 98 Resp: 261153

Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.5	77.3

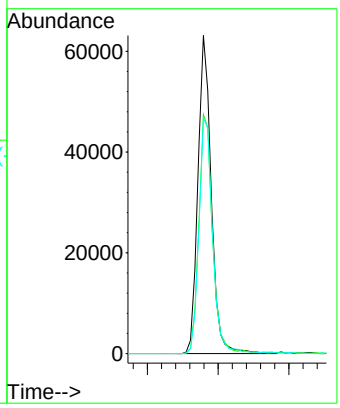


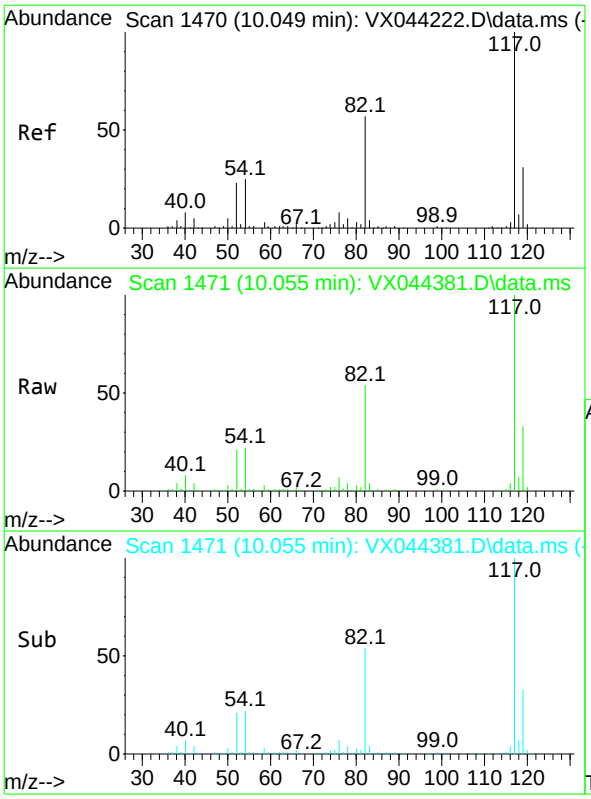


#62
4-Bromofluorobenzene
Concen: 47.376 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Tgt Ion: 95 Resp: 82846

Ion	Ratio	Lower	Upper
95	100		
174	77.5	0.0	145.8
176	75.9	0.0	137.8



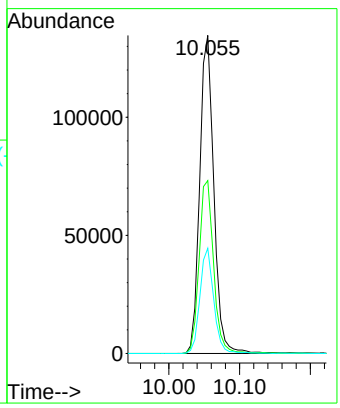


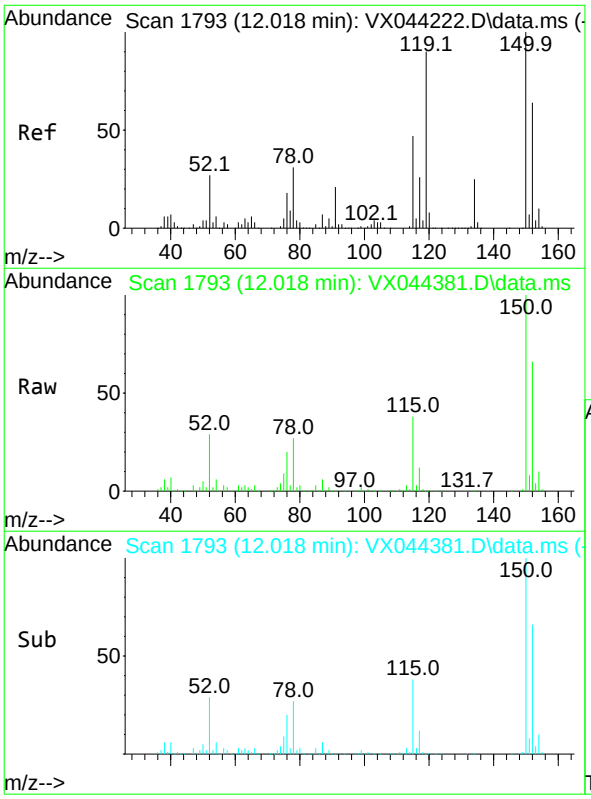
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-20241212

Tgt Ion:117 Resp: 186747

Ion	Ratio	Lower	Upper
117	100		
82	54.3	45.8	68.8
119	33.1	25.0	37.4

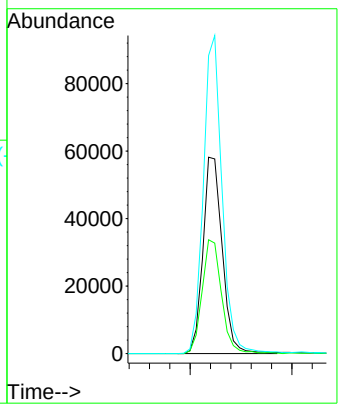




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044381.D
Acq: 18 Dec 2024 14:24

Tgt Ion:152 Resp: 76850

Ion	Ratio	Lower	Upper
152	100		
115	58.3	44.5	133.3
150	156.5	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE117D1-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-05	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
VX044391.D	1		12/18/24 18:18	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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	0.89	J	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.30		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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.60		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.20		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.44	J	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	130		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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE117D1-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-05	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
VX044391.D	1		12/18/24 18:18	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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	0.61	J	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.9		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	112000	5.55				
540-36-3	1,4-Difluorobenzene	202000	6.757				
3114-55-4	Chlorobenzene-d5	173000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	67900	12.024				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE117D1-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-05	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
VX044391.D	1		12/18/24 18:18	VX121824

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\VX121824\
Data File : VX044391.D
Acq On : 18 Dec 2024 18:18
Operator : JC/MD
Sample : P5281-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 19 00:51:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	111808	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	202274	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	172810	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67944	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88101	44.941	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.880%			
35) Dibromofluoromethane	5.385	113	65859	47.011	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.020%			
50) Toluene-d8	8.647	98	241495	51.096	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.200%			
62) 4-Bromofluorobenzene	11.079	95	75633	45.797	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.600%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.313	101	1218	0.893	ug/l #	85
12) 1,1-Dichloroethene	2.313	96	1589	1.268	ug/l #	57
16) Acetone	2.386	43	918	1.149	ug/l #	50
20) Methylene Chloride	2.788	84	459	0.306	ug/l #	61
27) cis-1,2-Dichloroethene	4.483	96	1951	1.153	ug/l	50
30) Chloroform	5.093	83	1299m	0.441	ug/l	
38) Carbon Tetrachloride	5.672	117	3157	1.619	ug/l	93
44) Trichloroethene	7.123	130	175185	127.770	ug/l	98
55) 1,1,2-Trichloroethane	9.165	97	834	0.608	ug/l #	75

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044391.D
Acq On : 18 Dec 2024 18:18
Operator : JC/MD
Sample : P5281-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 19 00:51:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

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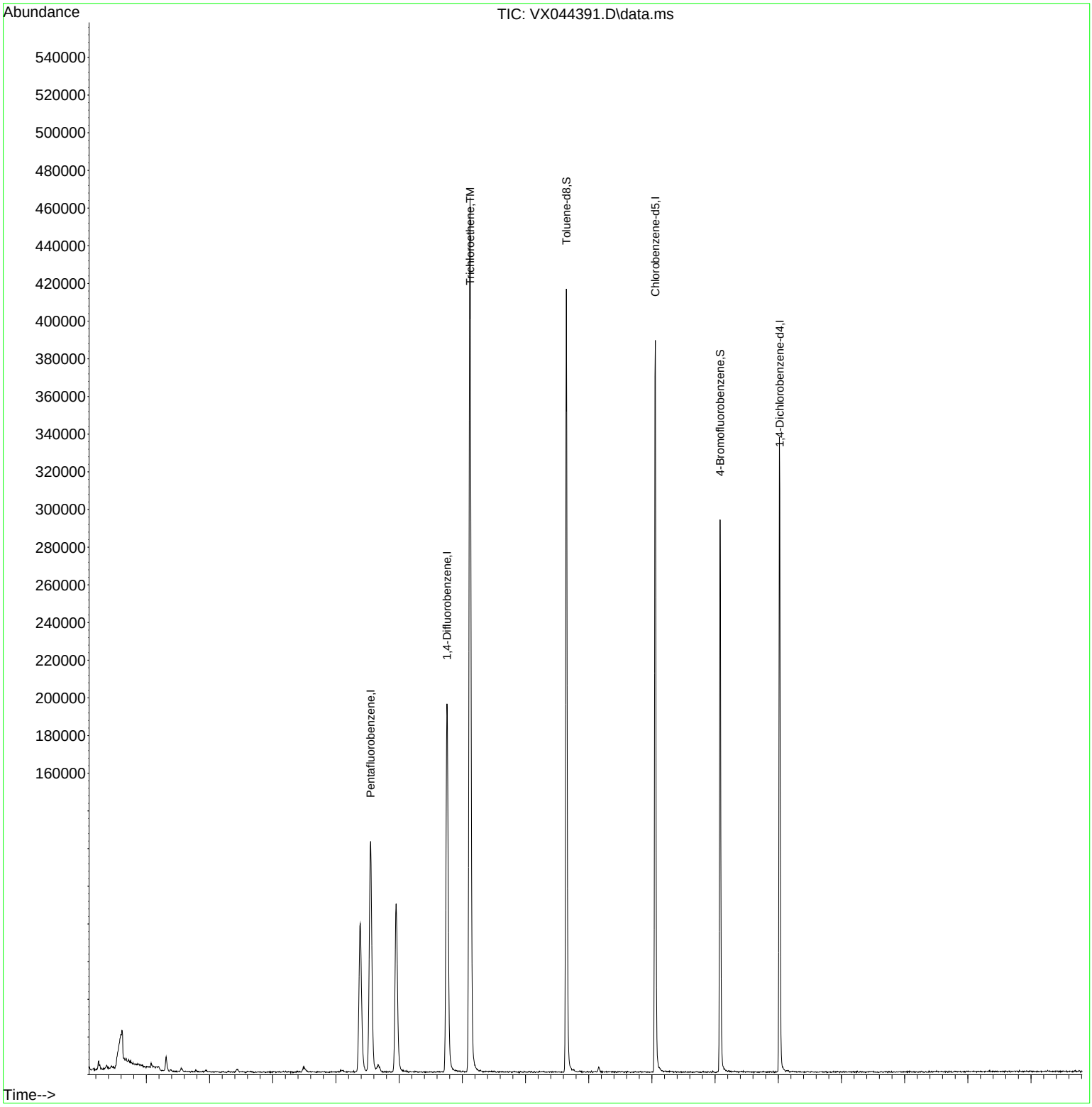

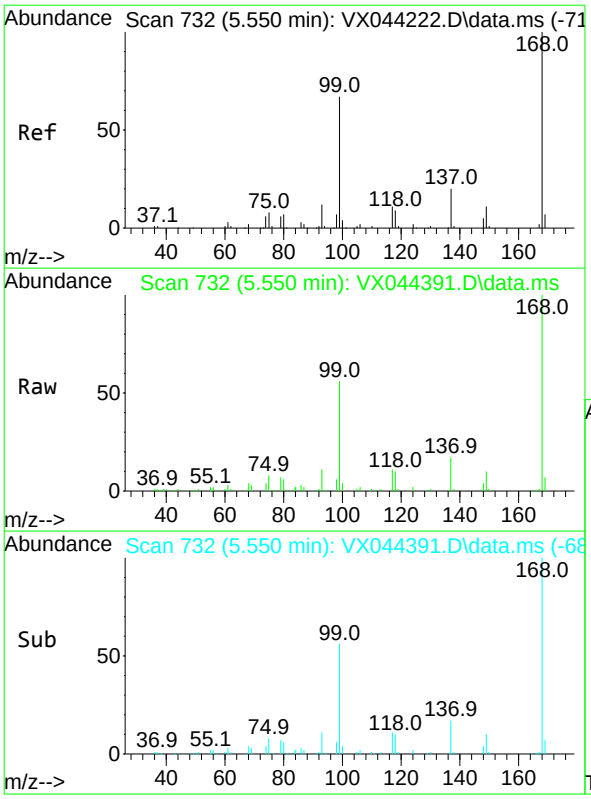

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:168 Resp: 111808

Ion	Ratio	Lower	Upper
168	100		
99	56.4	53.4	80.0

Instrument :
MSVOA_X
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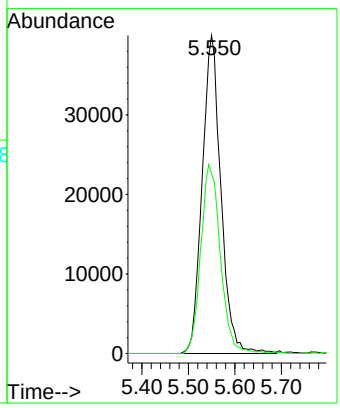
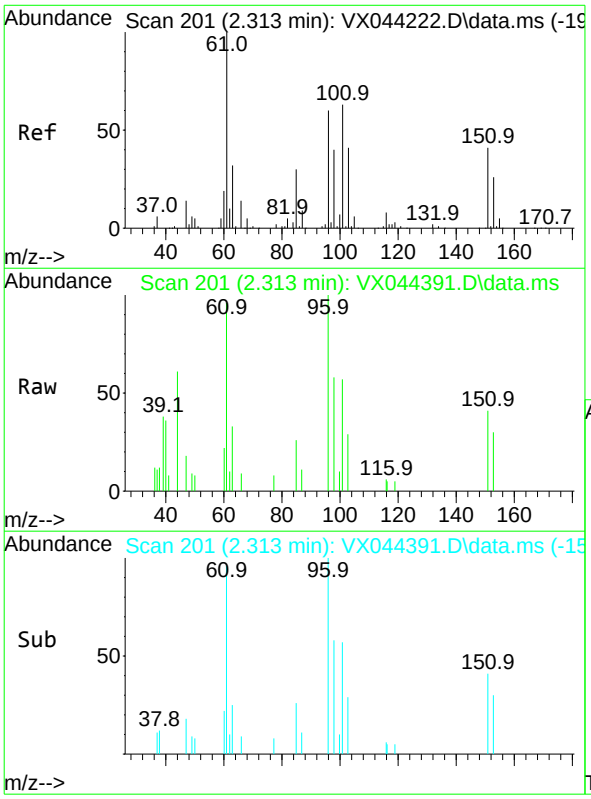
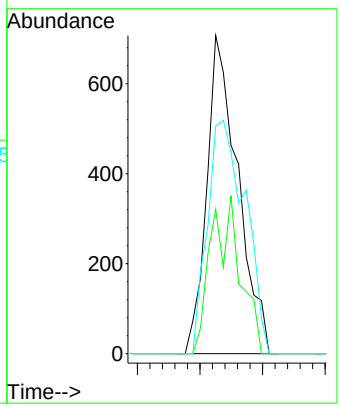


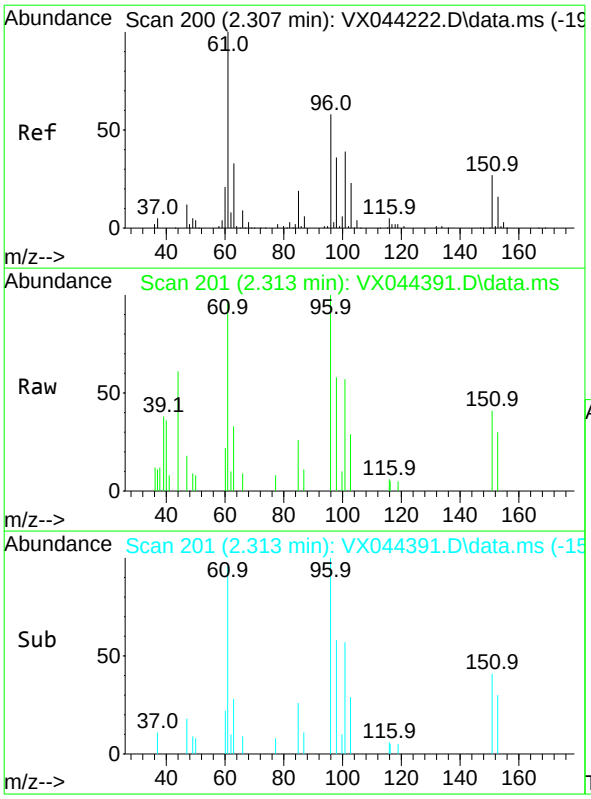


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.893 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:101 Resp: 1218

Ion	Ratio	Lower	Upper
101	100		
85	46.9	38.5	57.7
151	88.9	55.8	83.6#

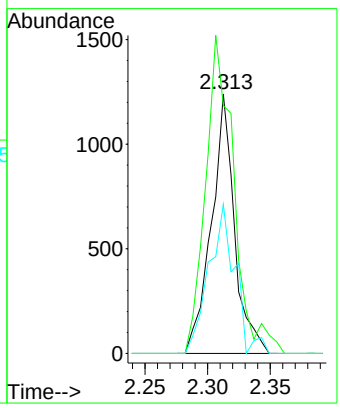




#12
1,1-Dichloroethene
Concen: 1.268 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 96 Resp: 1589

Ion	Ratio	Lower	Upper
96	100		
61	95.6	138.0	207.0#
98	57.5	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
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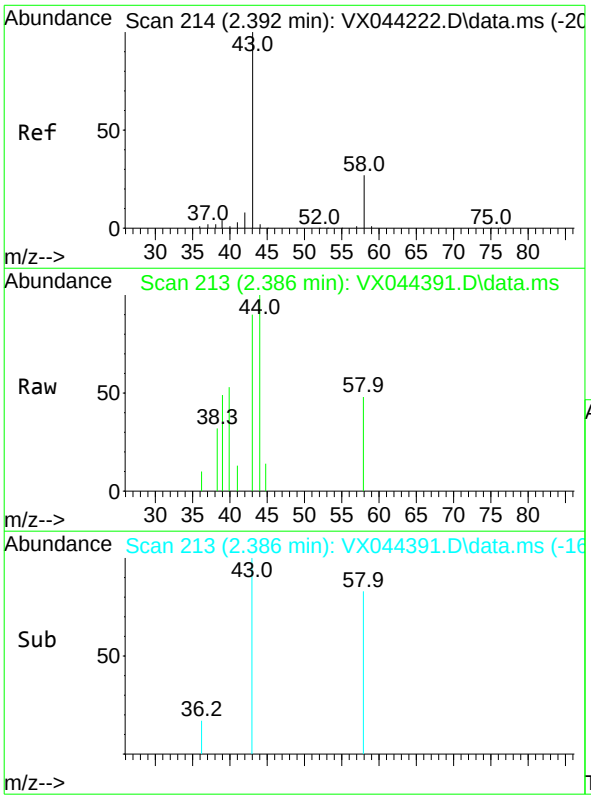
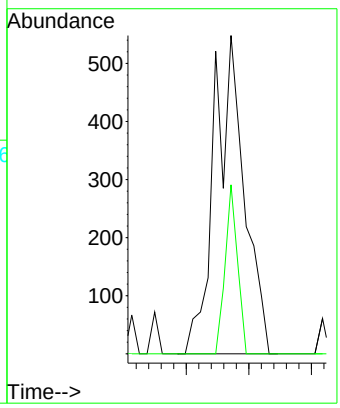
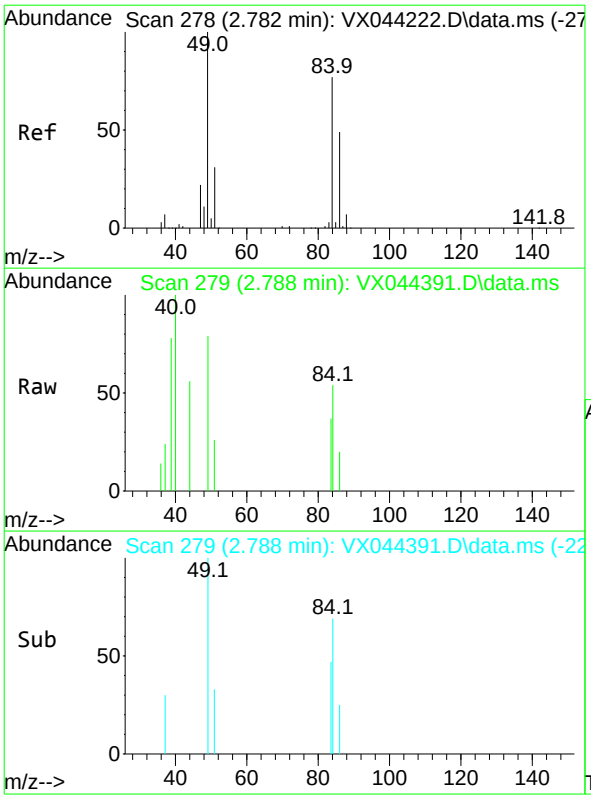


#16
Acetone
Concen: 1.149 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 43 Resp: 918

Ion	Ratio	Lower	Upper
43	100		
58	53.1	21.6	32.4#

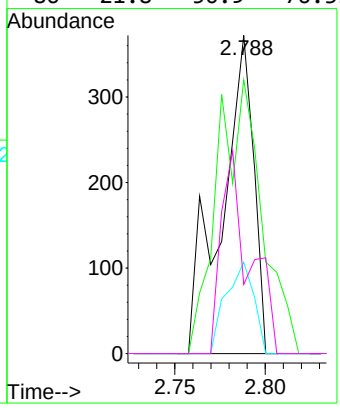




#20
Methylene Chloride
Concen: 0.306 ug/l
RT: 2.788 min Scan# 27
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 84 Resp: 459

Ion	Ratio	Lower	Upper
84	100		
49	86.0	104.2	156.4#
51	28.8	32.2	48.4#
86	21.8	50.9	76.3#



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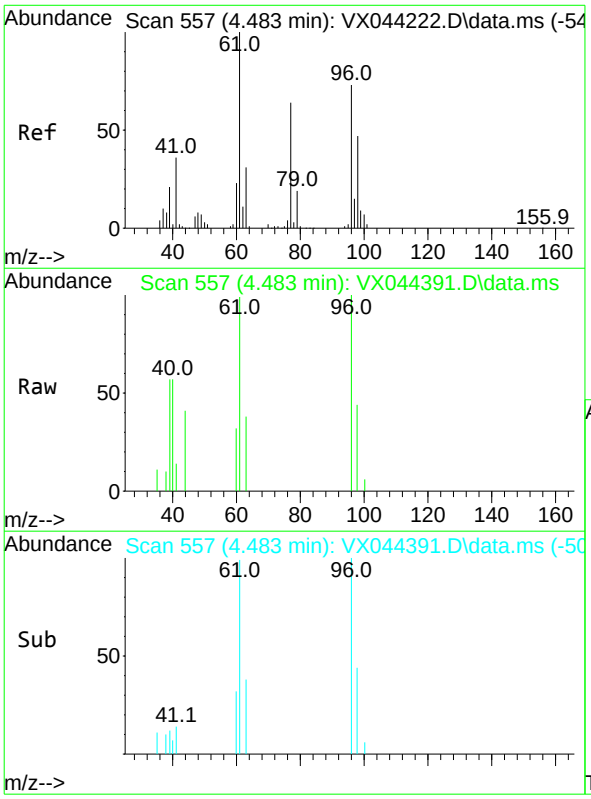
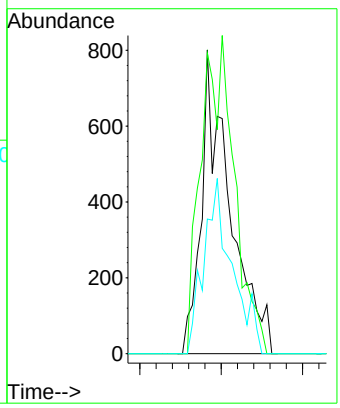
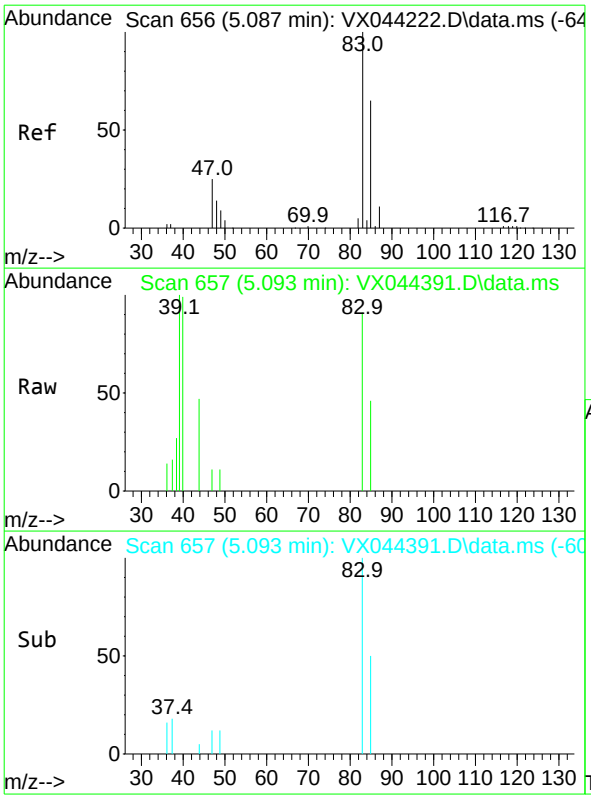


#27
cis-1,2-Dichloroethene
Concen: 1.153 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 96 Resp: 1951

Ion	Ratio	Lower	Upper
96	100		
61	63.6	0.0	299.0
98	56.9	0.0	129.0

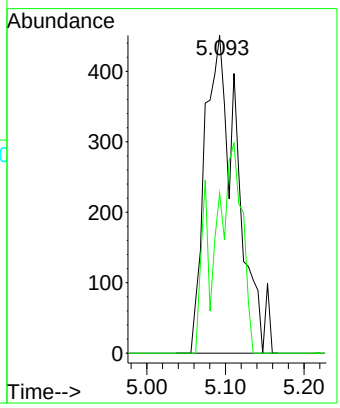




#30
Chloroform
Concen: 0.441 ug/l m
RT: 5.093 min Scan# 65
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 83 Resp: 1299

Ion	Ratio	Lower	Upper
83	100		
85	50.3	51.6	77.4#



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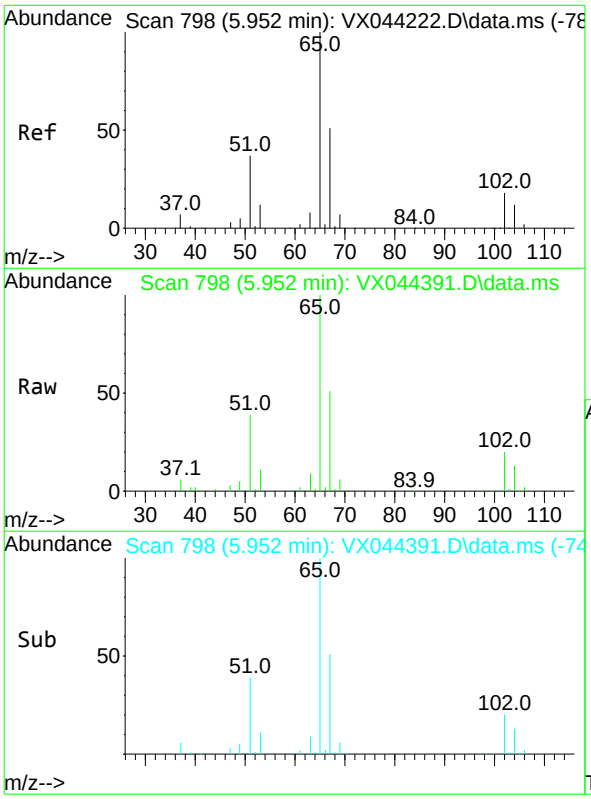
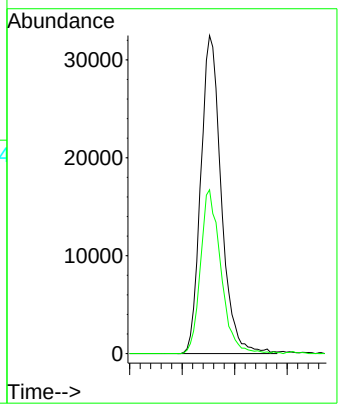
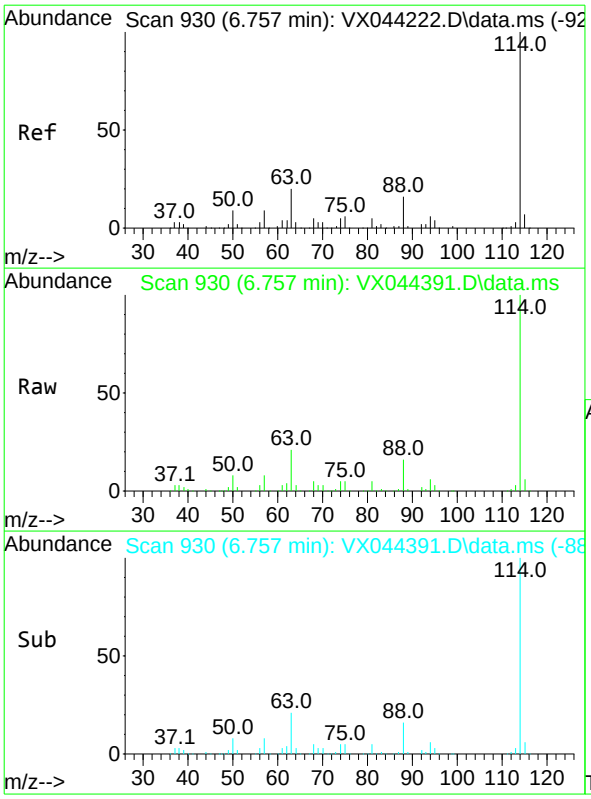


#33
1,2-Dichloroethane-d4
Concen: 44.941 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 65 Resp: 88101

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:114 Resp: 202274

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.6
88	15.7	0.0	31.8

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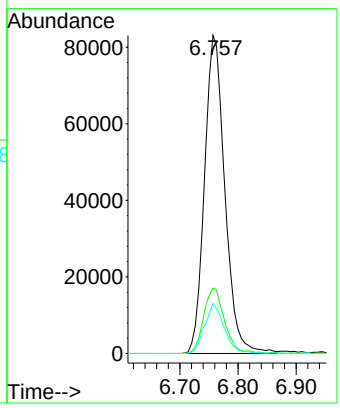
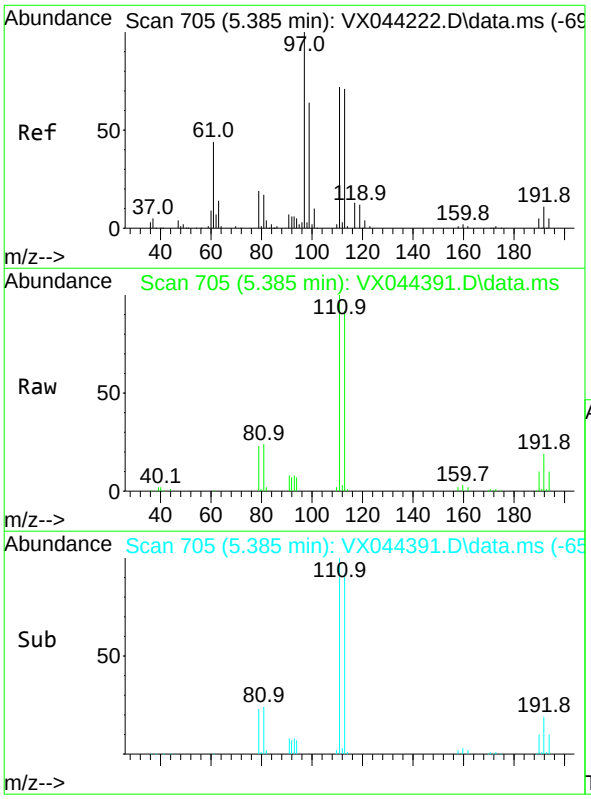
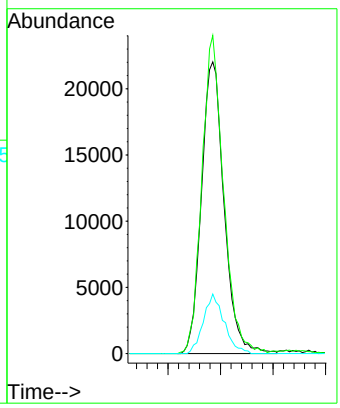


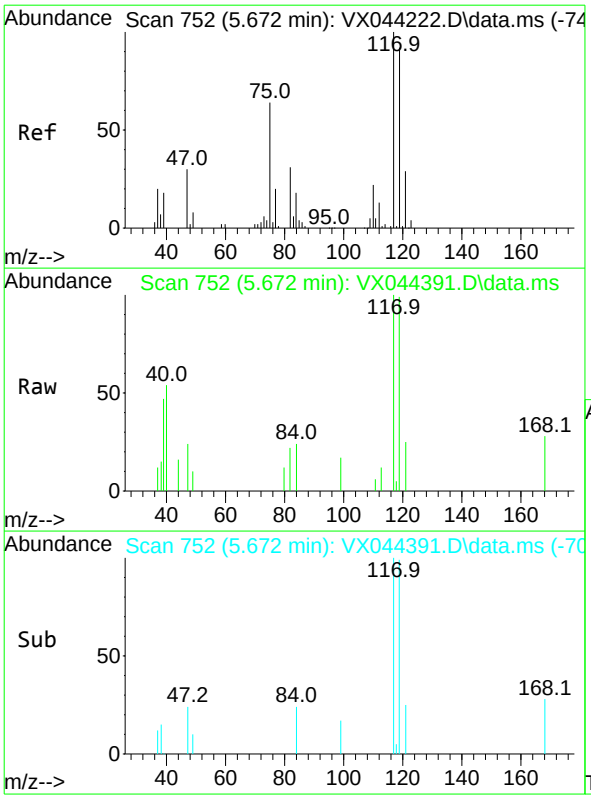


#35
Dibromofluoromethane
Concen: 47.011 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:113 Resp: 65859

Ion	Ratio	Lower	Upper
113	100		
111	104.4	80.4	120.6
192	18.8	13.3	19.9

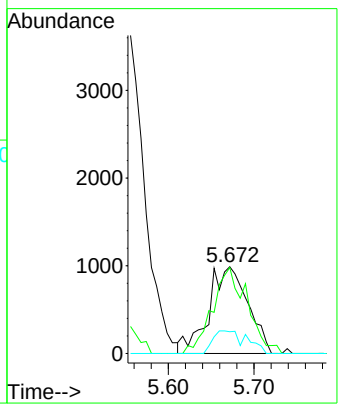




#38
Carbon Tetrachloride
Concen: 1.619 ug/l
RT: 5.672 min Scan# 75
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:117 Resp: 3157

Ion	Ratio	Lower	Upper
117	100		
119	99.1	74.2	111.4
121	25.1	23.0	34.6



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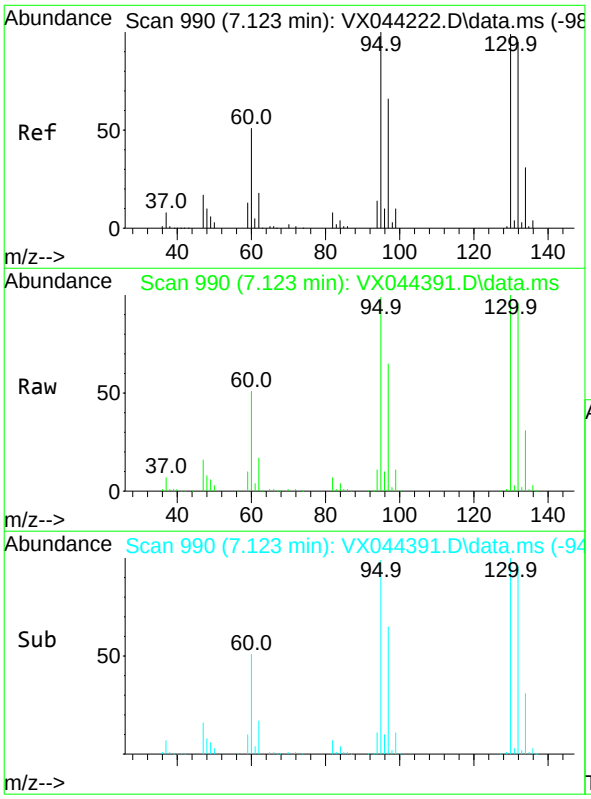
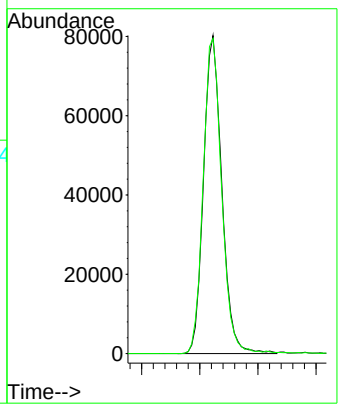
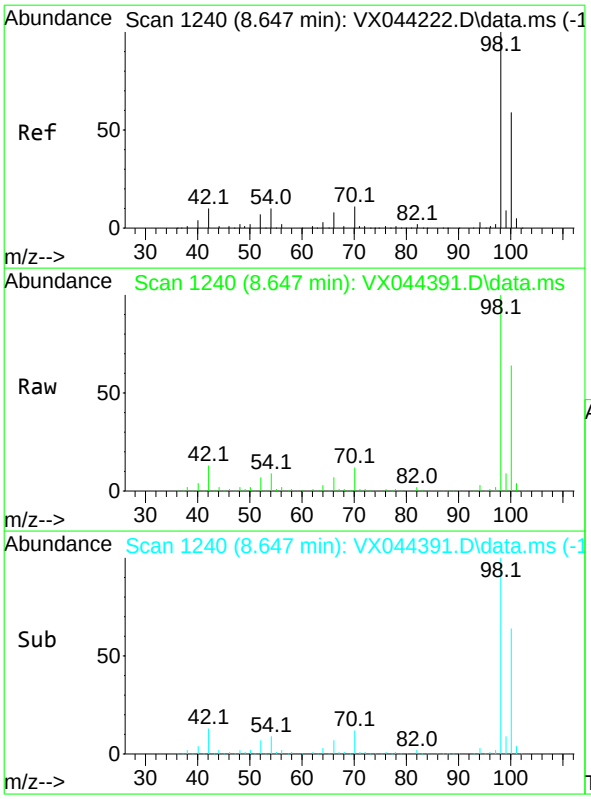


#44
Trichloroethene
Concen: 127.770 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:130 Resp: 175185

Ion	Ratio	Lower	Upper
130	100		
95	99.0	0.0	201.4

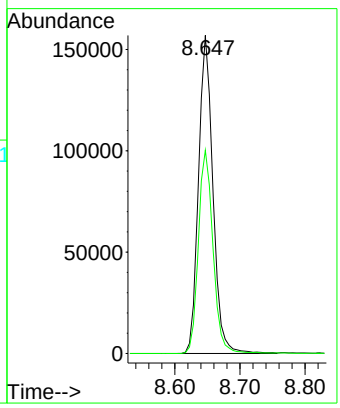




#50
Toluene-d8
Concen: 51.096 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 98 Resp: 241495

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.5	77.3



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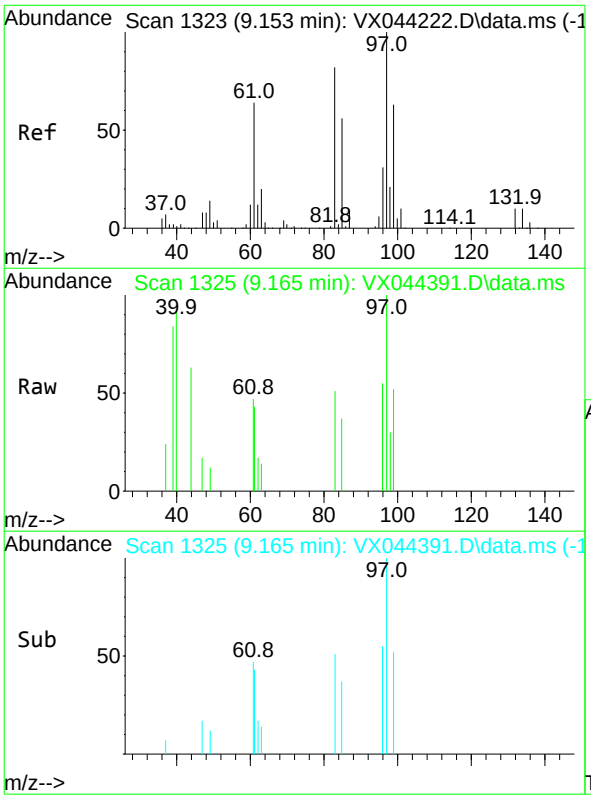
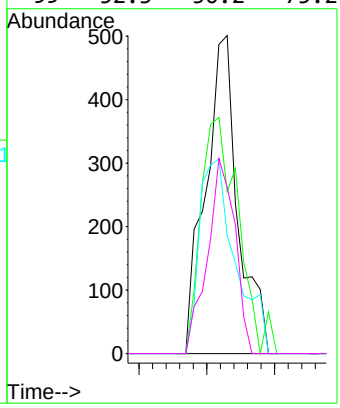
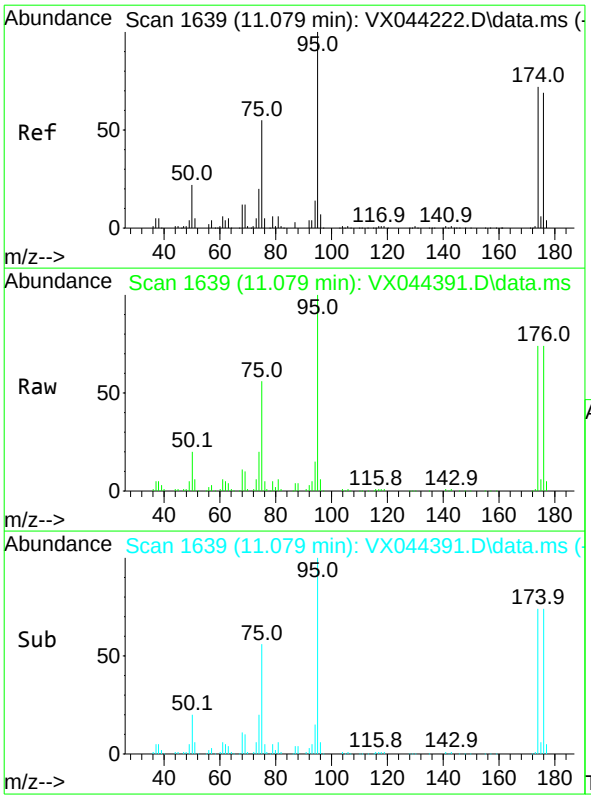


#55
1,1,2-Trichloroethane
Concen: 0.608 ug/l
RT: 9.165 min Scan# 1325
Delta R.T. 0.012 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 97 Resp: 834

Ion	Ratio	Lower	Upper
97	100		
83	50.9	65.3	97.9#
85	37.1	44.6	67.0#
99	52.3	50.2	75.2

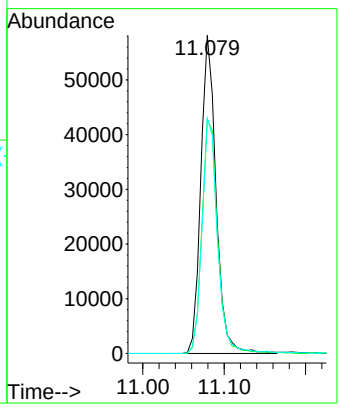




#62
4-Bromofluorobenzene
Concen: 45.797 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 95 Resp: 75633

Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	145.8
176	75.9	0.0	137.8



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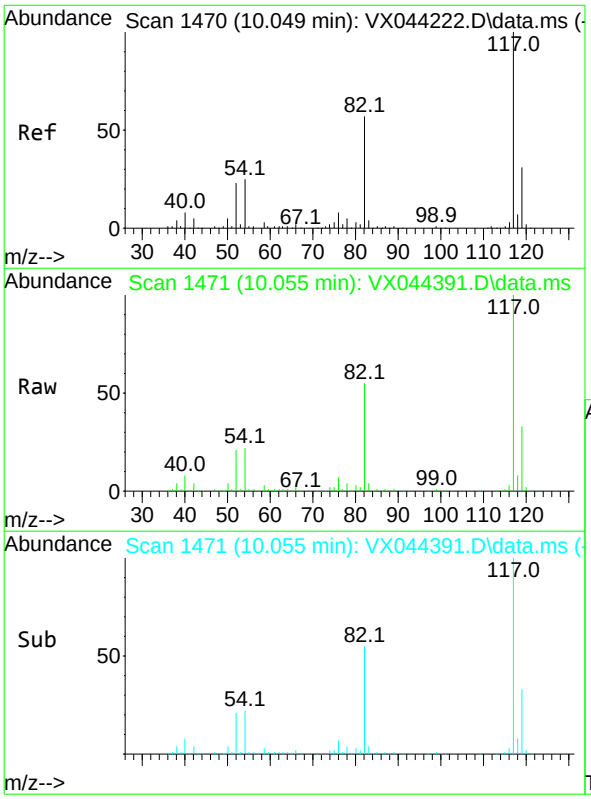
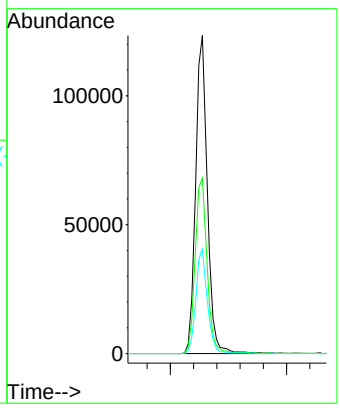
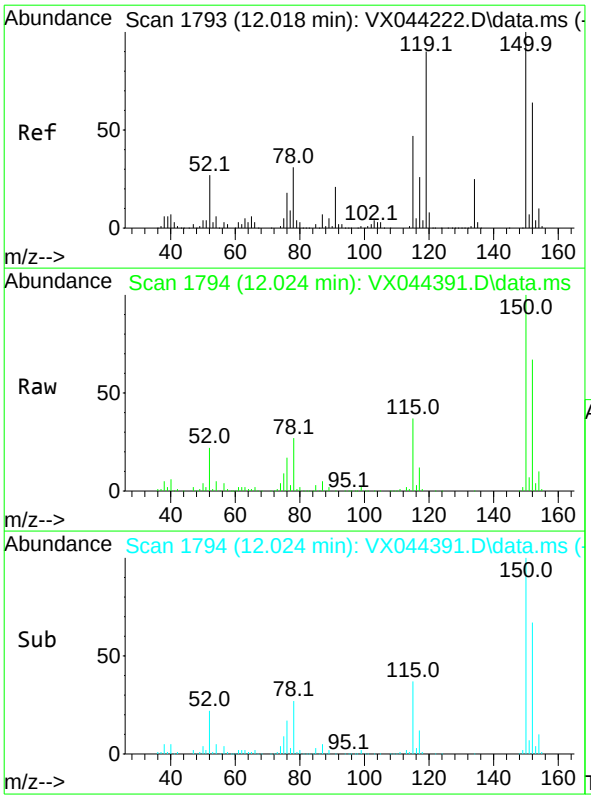


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:117 Resp: 172810

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.8	68.8
119	32.8	25.0	37.4

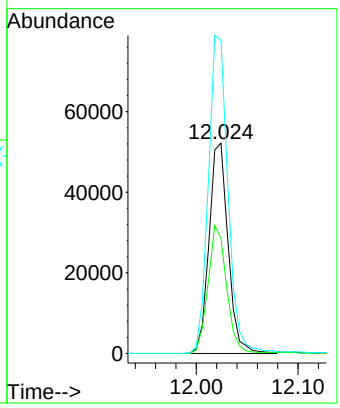




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:152 Resp: 67944

Ion	Ratio	Lower	Upper
152	100		
115	60.0	44.5	133.3
150	156.1	0.0	353.8



Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE115D1-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-06	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
VX044392.D	1		12/18/24 18:42	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	1.30		0.21	0.50	1.00	ug/L
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	23.4		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	10.1		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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.41	J	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	1.30		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	2.90		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	2.70		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	1.70		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	540	E	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

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE115D1-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-06	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
VX044392.D	1		12/18/24 18:42	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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	1.10		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.45	J	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.0		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.0		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	116000	5.55				
540-36-3	1,4-Difluorobenzene	207000	6.757				
3114-55-4	Chlorobenzene-d5	178000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	70800	12.018				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE115D1-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-06	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
VX044392.D	1		12/18/24 18:42	VX121824

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\VX121824\
Data File : VX044392.D
Acq On : 18 Dec 2024 18:42
Operator : JC/MD
Sample : P5281-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Quant Time: Dec 19 00:51:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

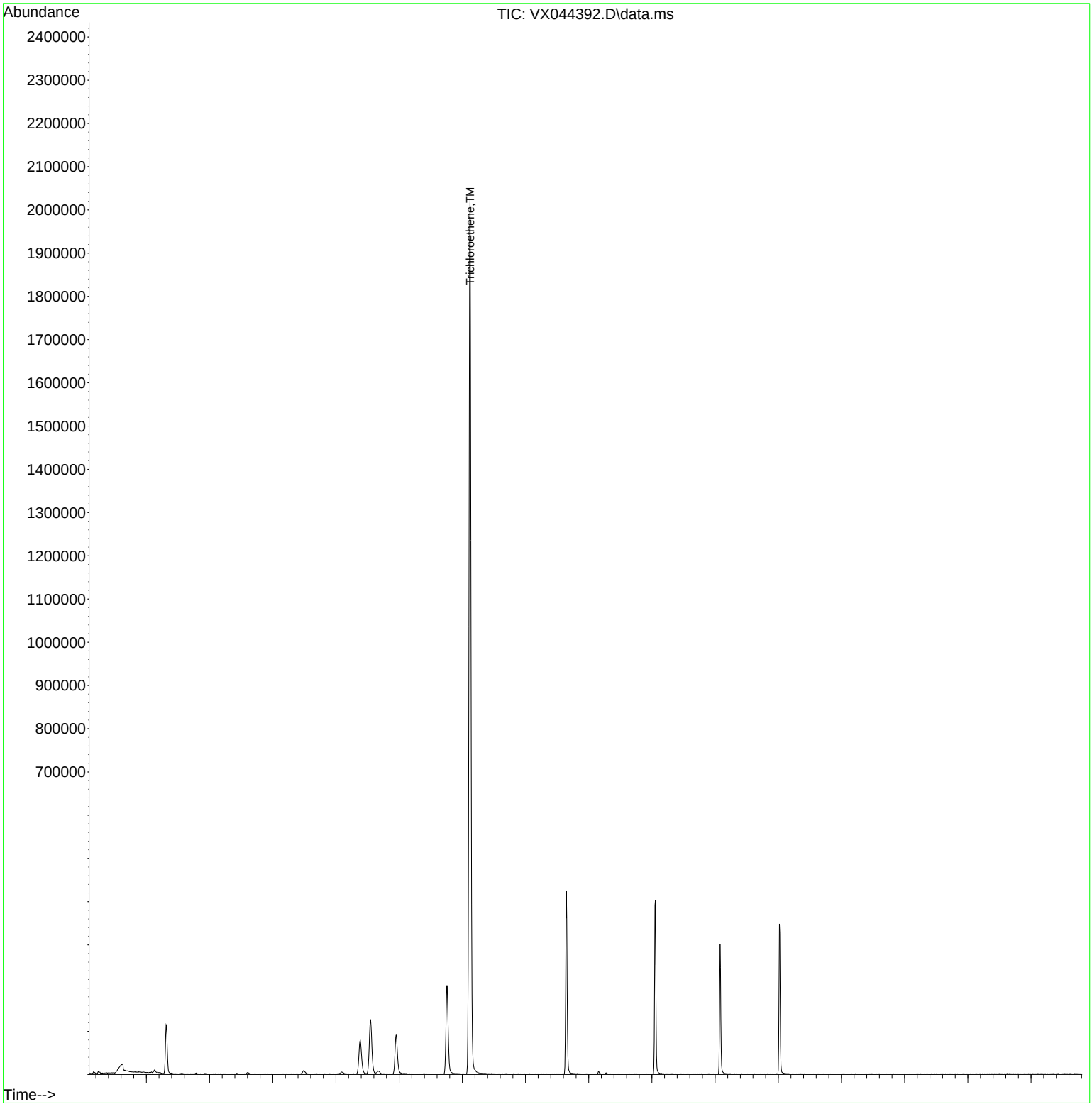
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	115938	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	206968	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	178386	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	70750	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	87364	42.978	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.960%			
35) Dibromofluoromethane	5.385	113	67237	46.906	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.820%			
50) Toluene-d8	8.647	98	244633	50.586	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.180%			
62) 4-Bromofluorobenzene	11.079	95	77794	46.037	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	2308	1.287	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	33134	23.419	ug/l	96
12) 1,1-Dichloroethene	2.313	96	13073	10.060	ug/l	82
16) Acetone	2.392	43	788	0.951	ug/l #	88
20) Methylene Chloride	2.782	84	641	0.412	ug/l #	83
24) 1,1-Dichloroethane	3.605	63	3460	1.273	ug/l #	93
27) cis-1,2-Dichloroethene	4.489	96	4801	2.737	ug/l	92
30) Chloroform	5.093	83	5081	1.664	ug/l	95
38) Carbon Tetrachloride	5.666	117	5756	2.885	ug/l #	83
44) Trichloroethene	7.123	130	757632	540.040	ug/l	99
55) 1,1,2-Trichloroethane	9.159	97	1528	1.089	ug/l #	80
64) Tetrachloroethene	9.281	164	530	0.448	ug/l #	44

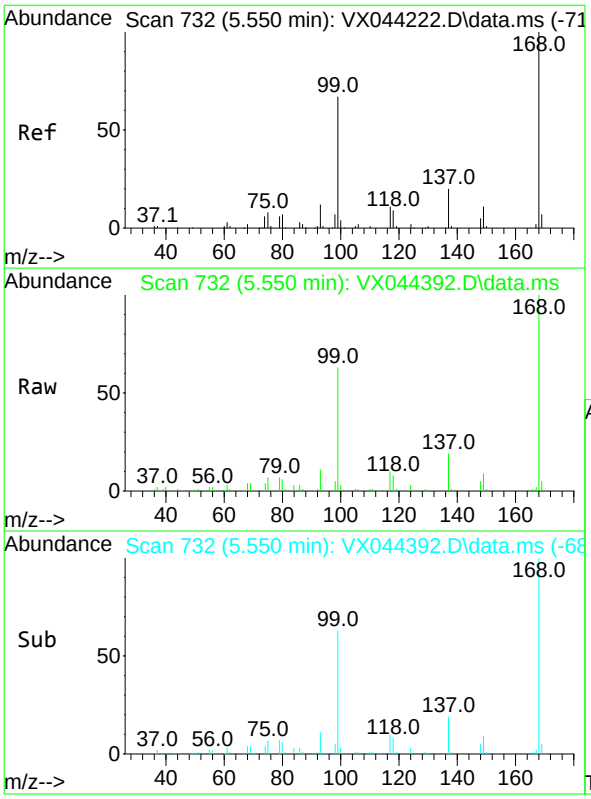
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044392.D
Acq On : 18 Dec 2024 18:42
Operator : JC/MD
Sample : P5281-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Quant Time: Dec 19 00:51:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



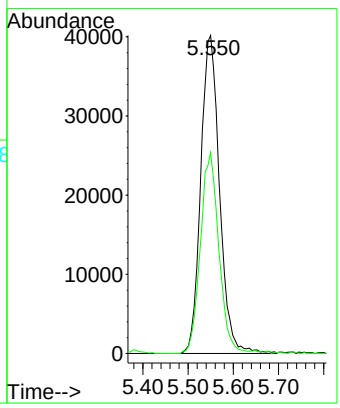


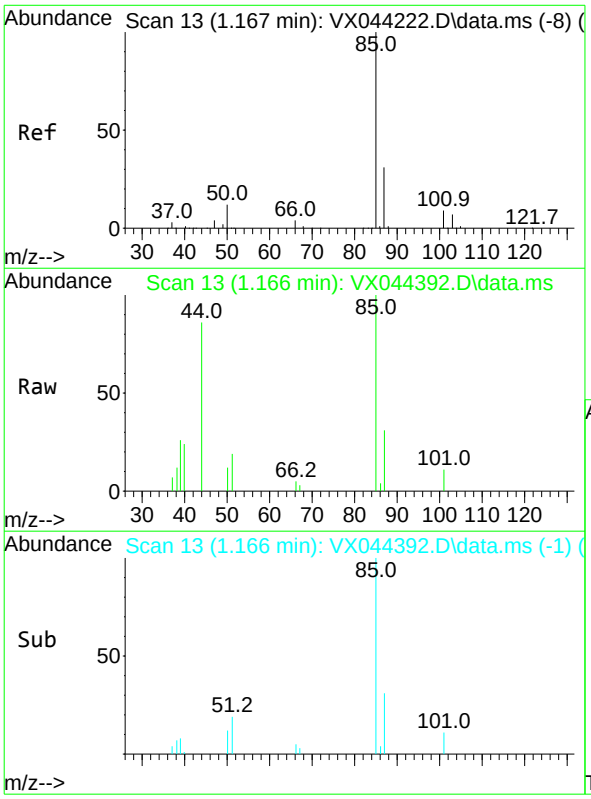
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion:168 Resp: 115938

Ion	Ratio	Lower	Upper
168	100		
99	63.1	53.4	80.0

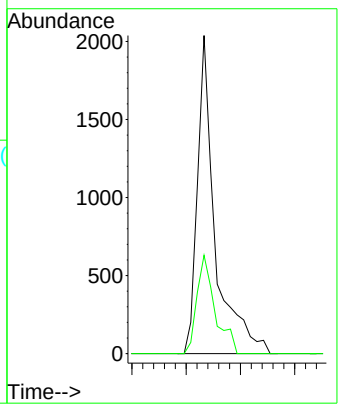


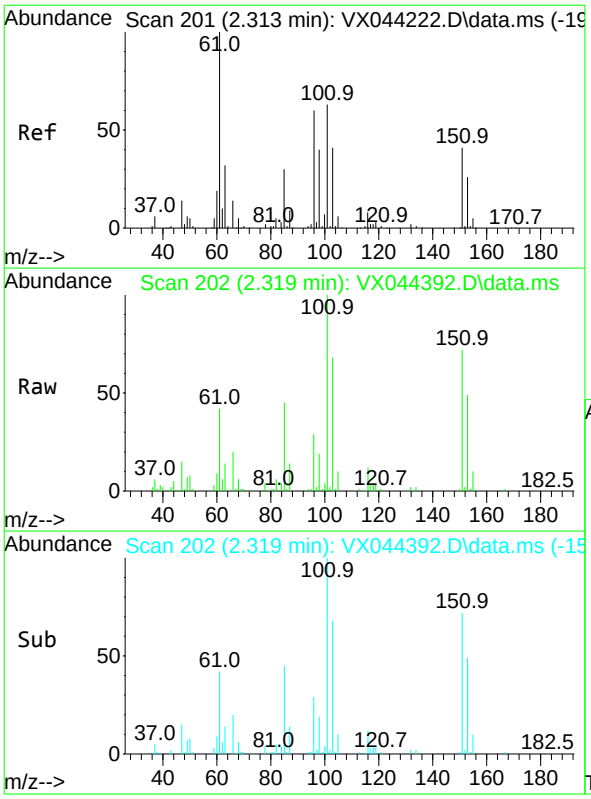


#2
Dichlorodifluoromethane
Concen: 1.287 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion: 85 Resp: 2308

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.4	46.4



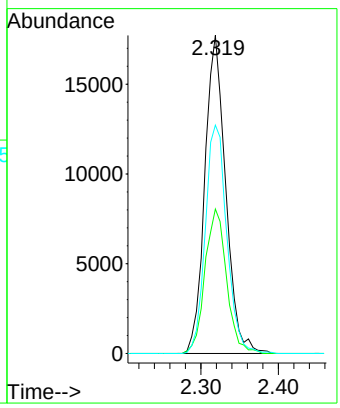


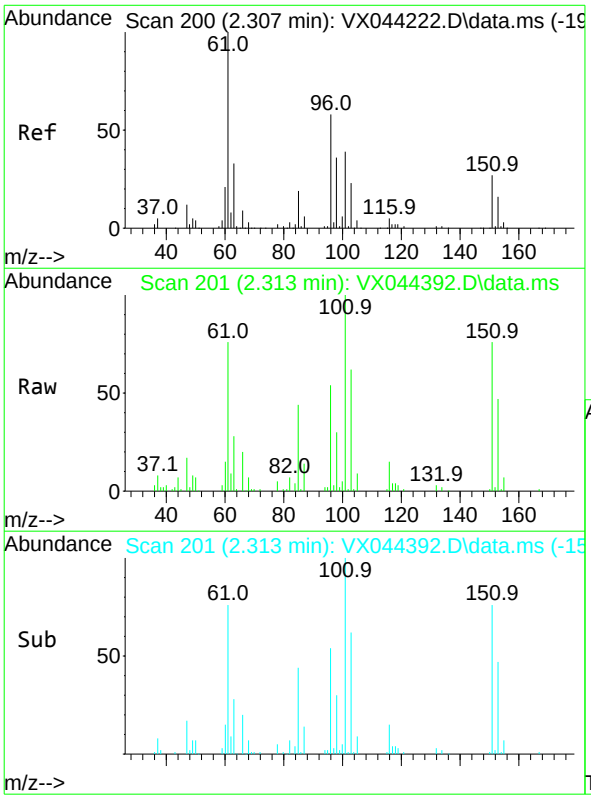
#9
1,1,2-Trichlorotrifluoroethane
Concen: 23.419 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion:101 Resp: 33134

Ion	Ratio	Lower	Upper
101	100		
85	47.0	38.5	57.7
151	74.2	55.8	83.6

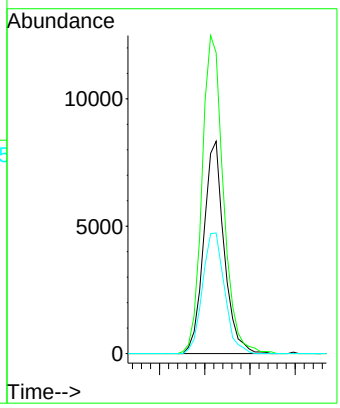


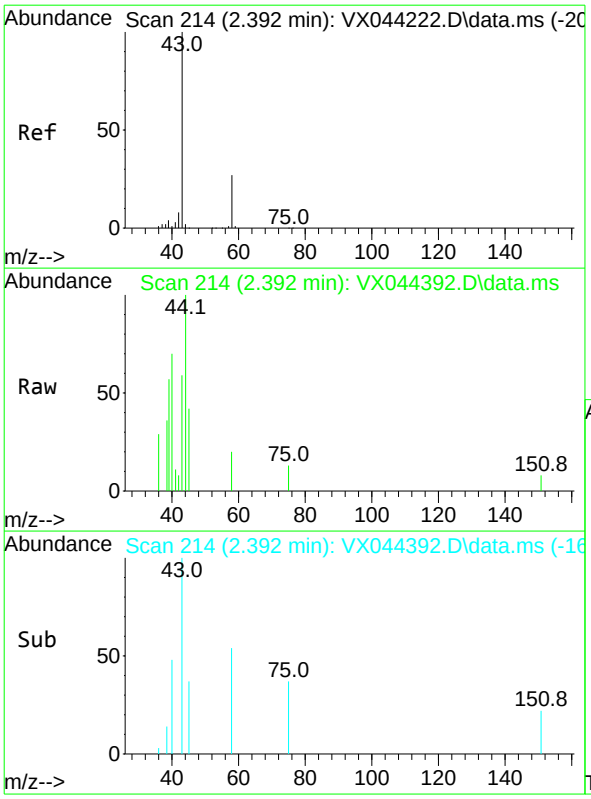


#12
1,1-Dichloroethene
Concen: 10.060 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion: 96 Resp: 13073

Ion	Ratio	Lower	Upper
96	100		
61	141.7	138.0	207.0
98	56.8	50.0	75.0



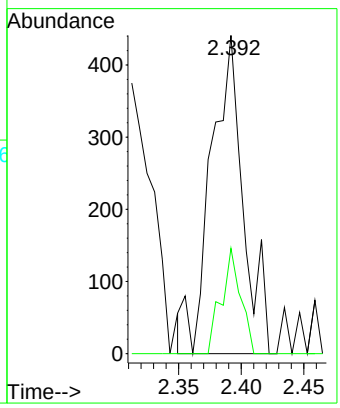


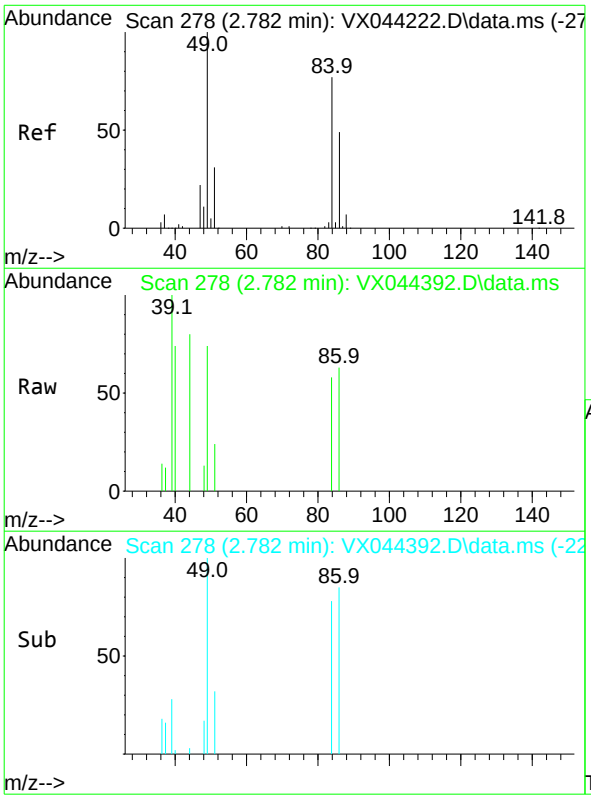
#16
Acetone
Concen: 0.951 ug/l
RT: 2.392 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion: 43 Resp: 788

Ion	Ratio	Lower	Upper
43	100		
58	33.1	21.6	32.4#

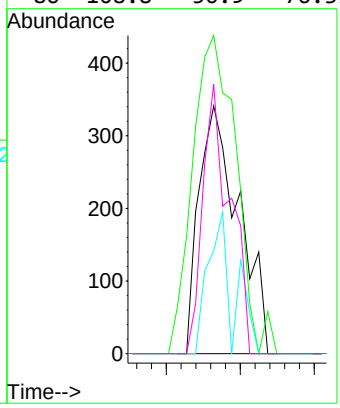


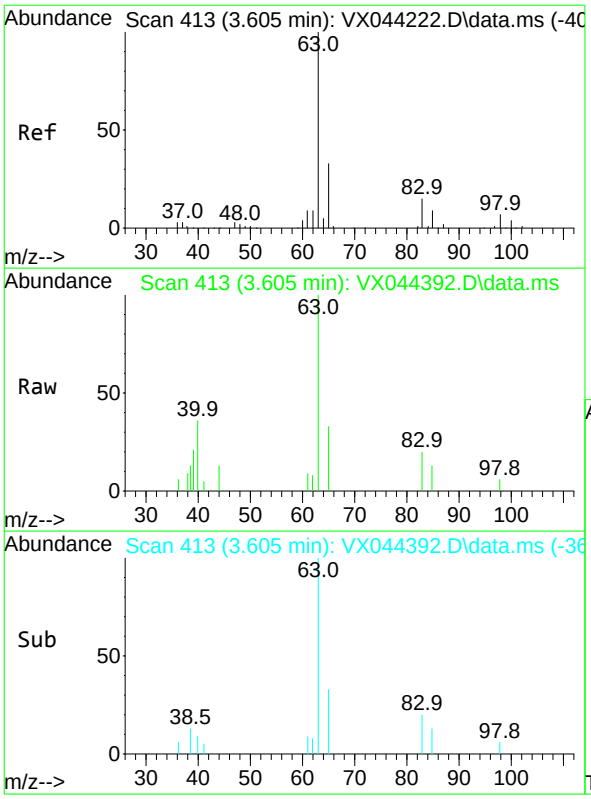


#20
Methylene Chloride
Concen: 0.412 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion: 84 Resp: 641

Ion	Ratio	Lower	Upper
84	100		
49	128.4	104.2	156.4
51	41.3	32.2	48.4
86	108.8	50.9	76.3#



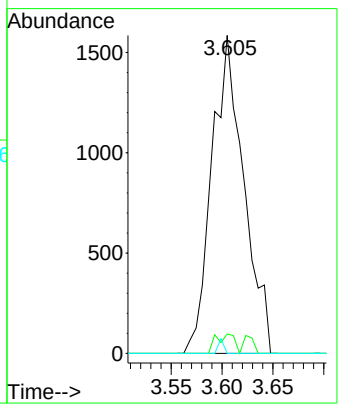


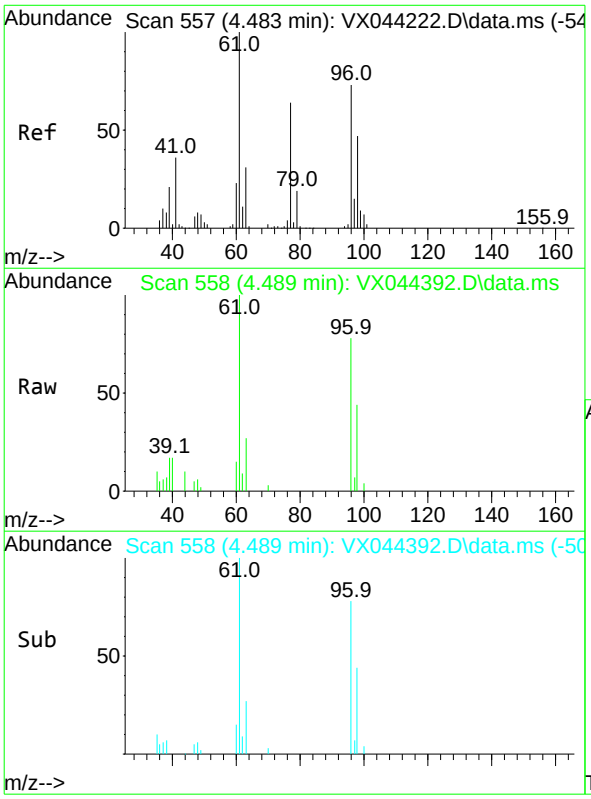
#24
1,1-Dichloroethane
Concen: 1.273 ug/l
RT: 3.605 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion: 63 Resp: 3460

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.6	10.8
100	0.0	2.1	6.3#

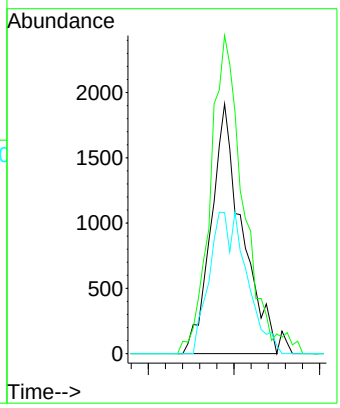


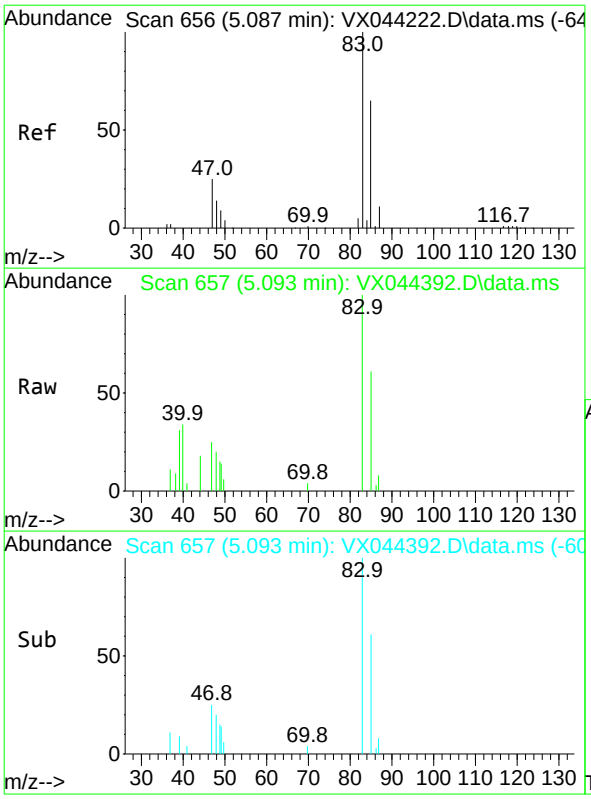


#27
cis-1,2-Dichloroethene
Concen: 2.737 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion: 96 Resp: 4801

Ion	Ratio	Lower	Upper
96	100		
61	137.0	0.0	299.0
98	67.9	0.0	129.0



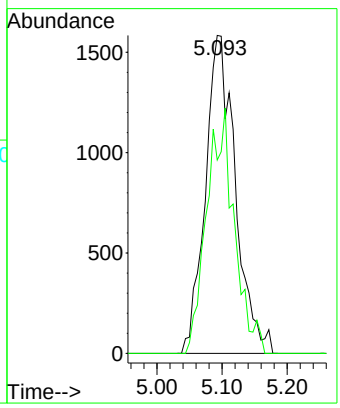


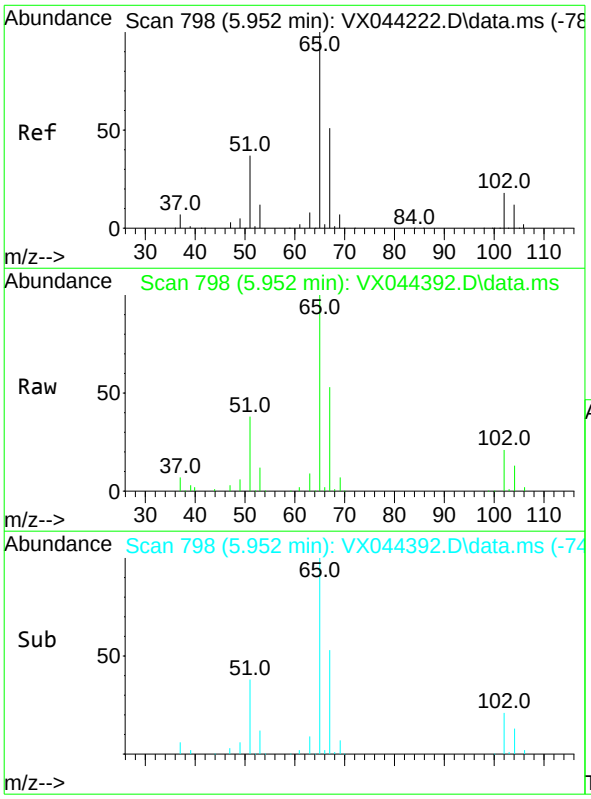
#30
Chloroform
Concen: 1.664 ug/l
RT: 5.093 min Scan# 65
Delta R.T. 0.006 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion: 83 Resp: 5081

Ion	Ratio	Lower	Upper
83	100		
85	60.8	51.6	77.4

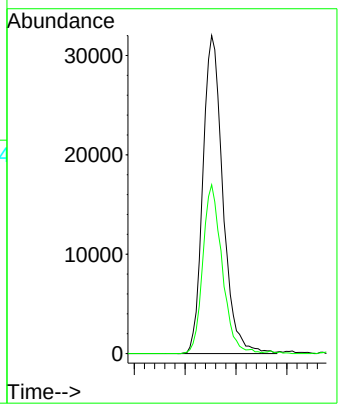


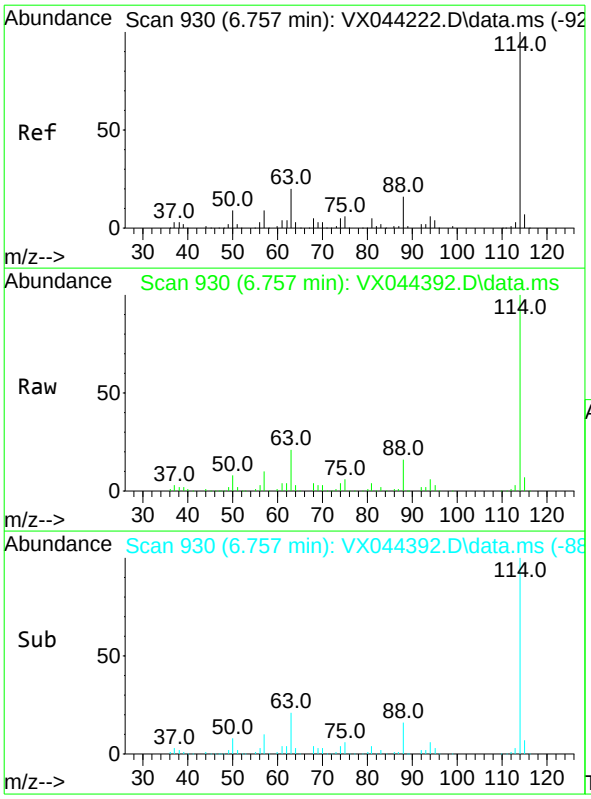


#33
1,2-Dichloroethane-d4
Concen: 42.978 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion: 65 Resp: 87364

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	101.6



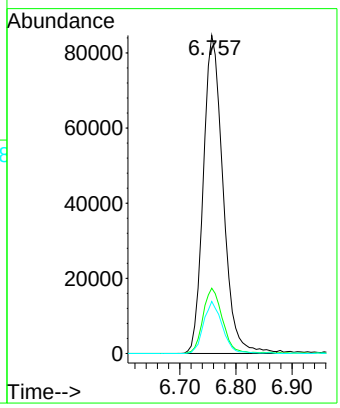


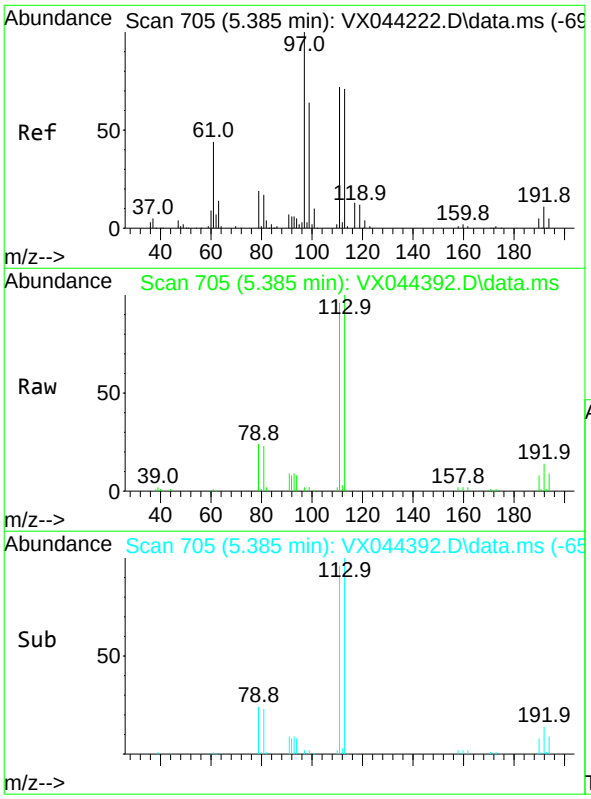
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion:114 Resp: 206968

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	40.6
88	16.4	0.0	31.8

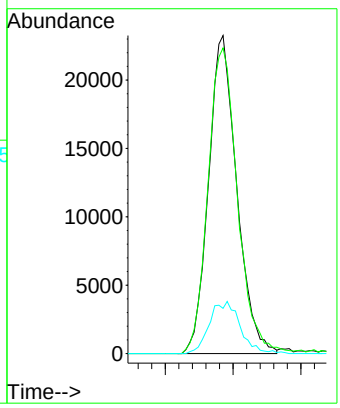


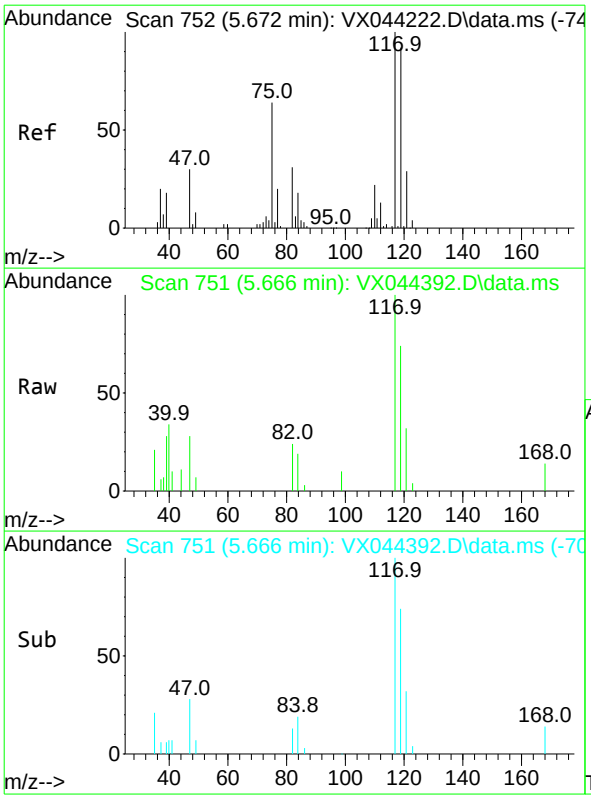


#35
Dibromofluoromethane
Concen: 46.906 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion:113 Resp: 67237

Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.4	120.6
192	8.8	13.3	19.9#



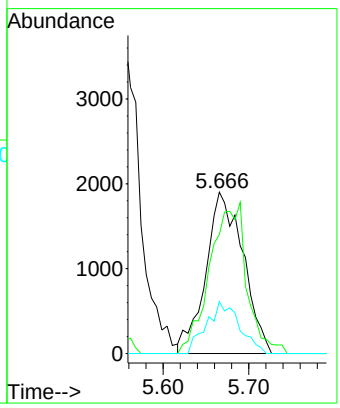


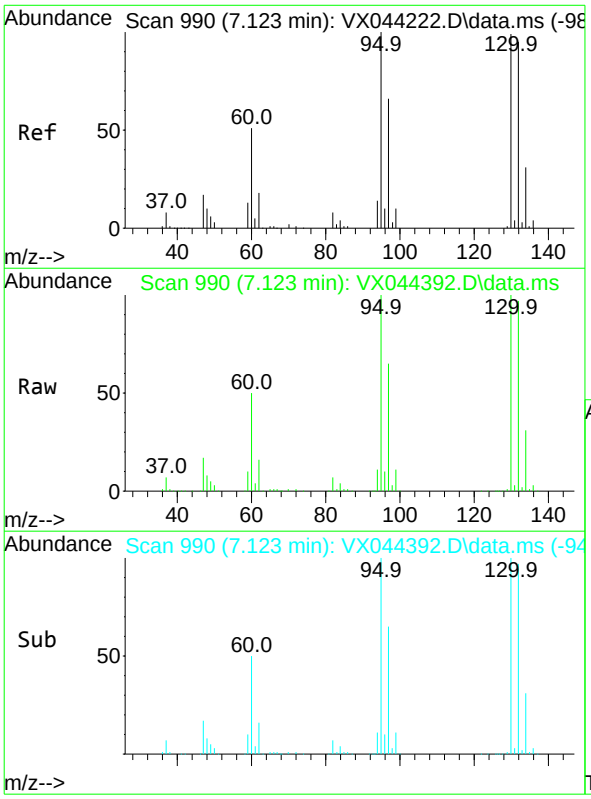
#38
Carbon Tetrachloride
Concen: 2.885 ug/l
RT: 5.666 min Scan# 75
Delta R.T. -0.006 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion:117 Resp: 5756

Ion	Ratio	Lower	Upper
117	100		
119	73.8	74.2	111.4#
121	32.1	23.0	34.6

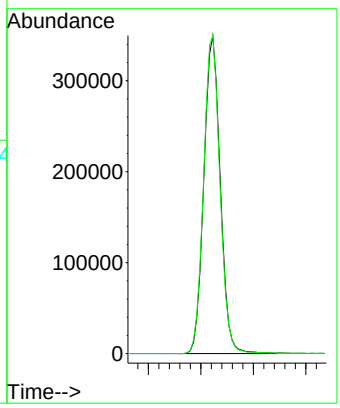


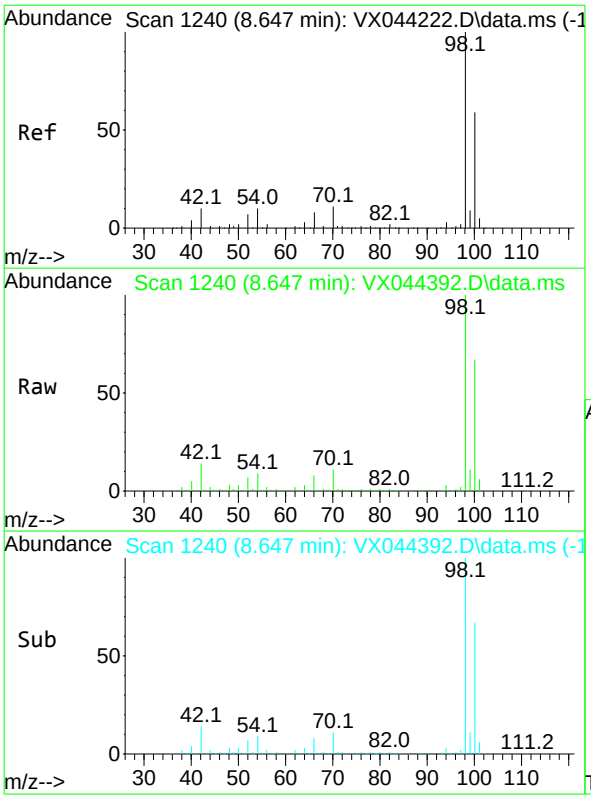


#44
Trichloroethene
Concen: 540.040 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion:130 Resp: 757632

Ion	Ratio	Lower	Upper
130	100		
95	100.1	0.0	201.4



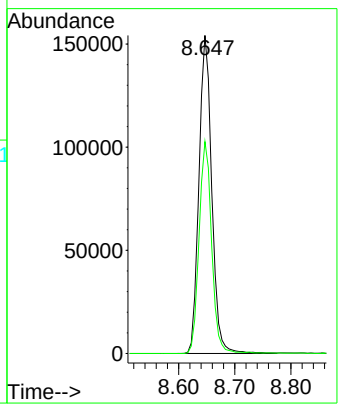


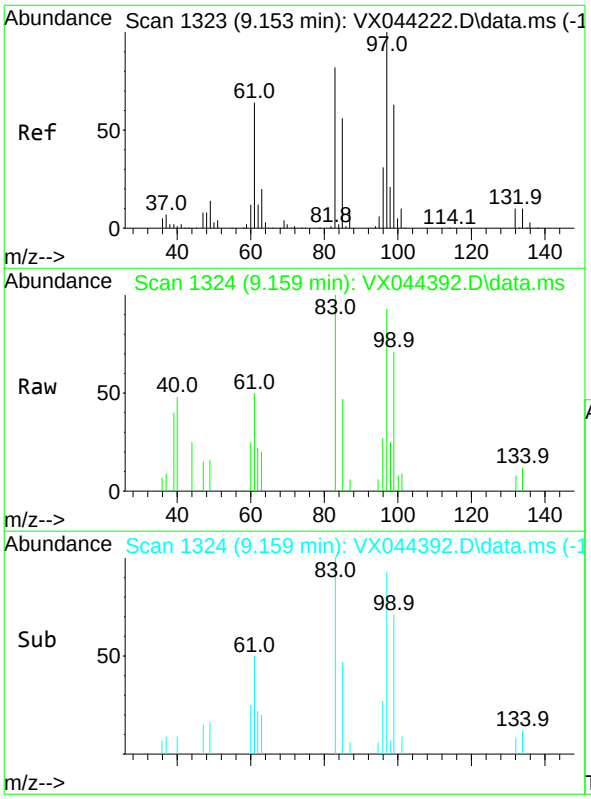
#50
Toluene-d8
Concen: 50.586 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion: 98 Resp: 244633

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.5	77.3

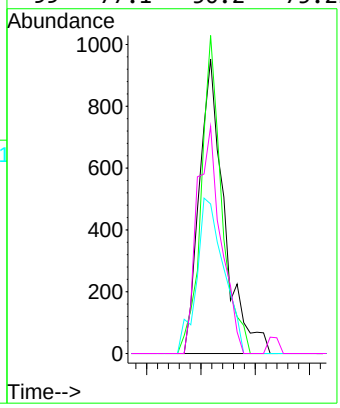


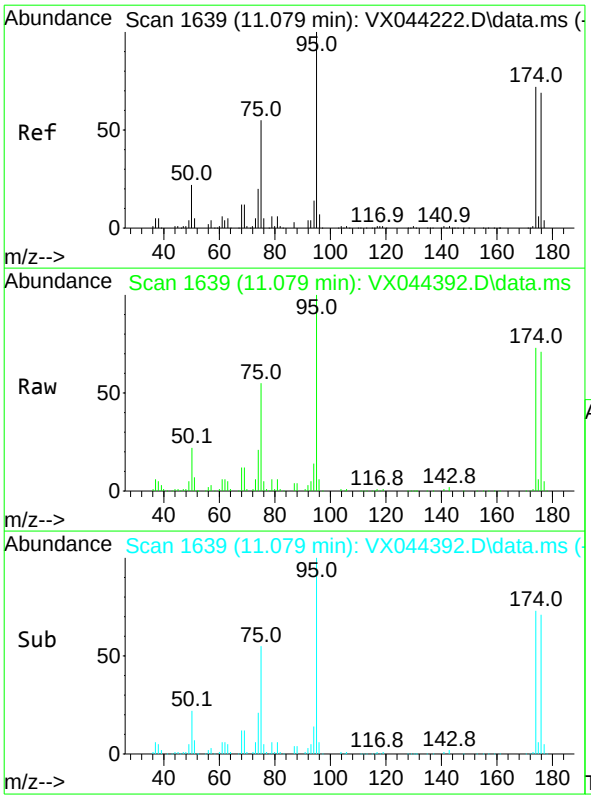


#55
1,1,2-Trichloroethane
Concen: 1.089 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion: 97 Resp: 1528

Ion	Ratio	Lower	Upper
97	100		
83	108.0	65.3	97.9#
85	50.8	44.6	67.0
99	77.1	50.2	75.2#



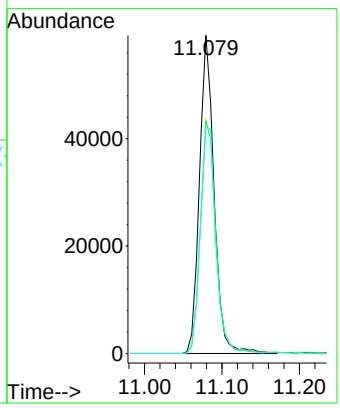


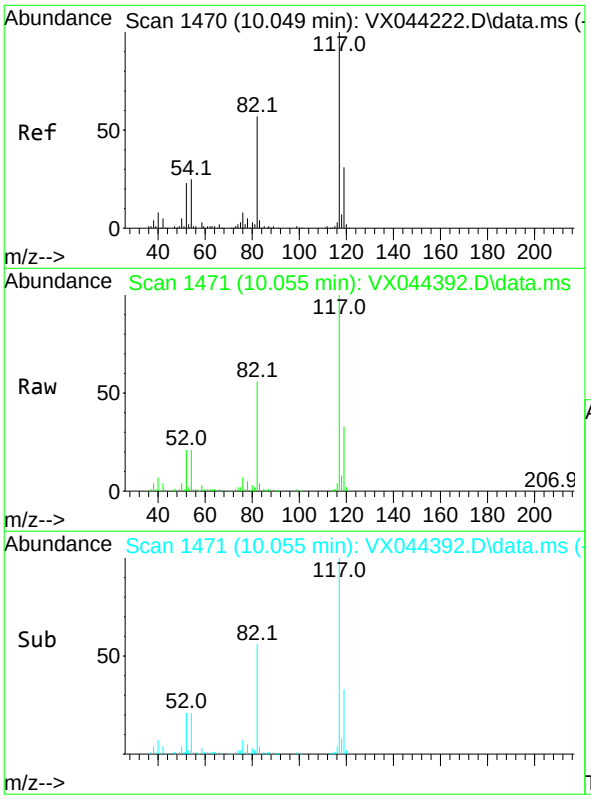
#62
4-Bromofluorobenzene
Concen: 46.037 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion: 95 Resp: 77794

Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	145.8
176	75.6	0.0	137.8

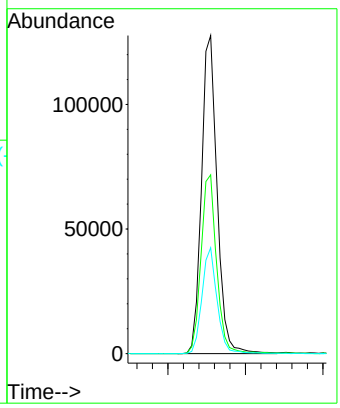


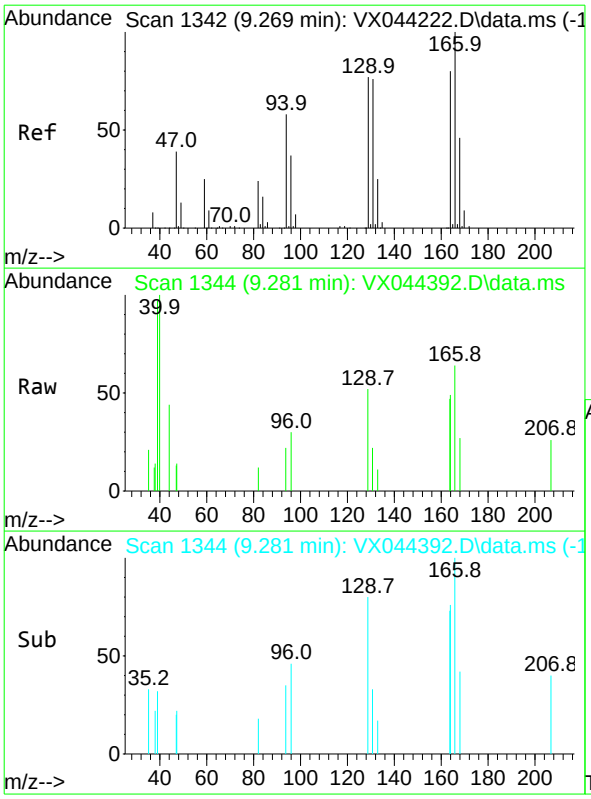


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion:117 Resp: 178386

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.8	68.8
119	33.3	25.0	37.4



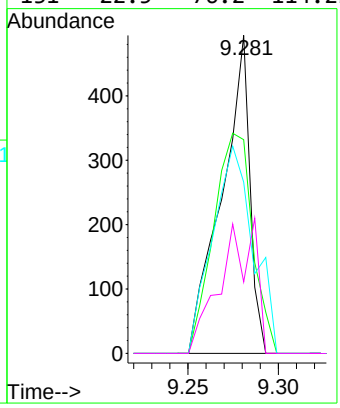


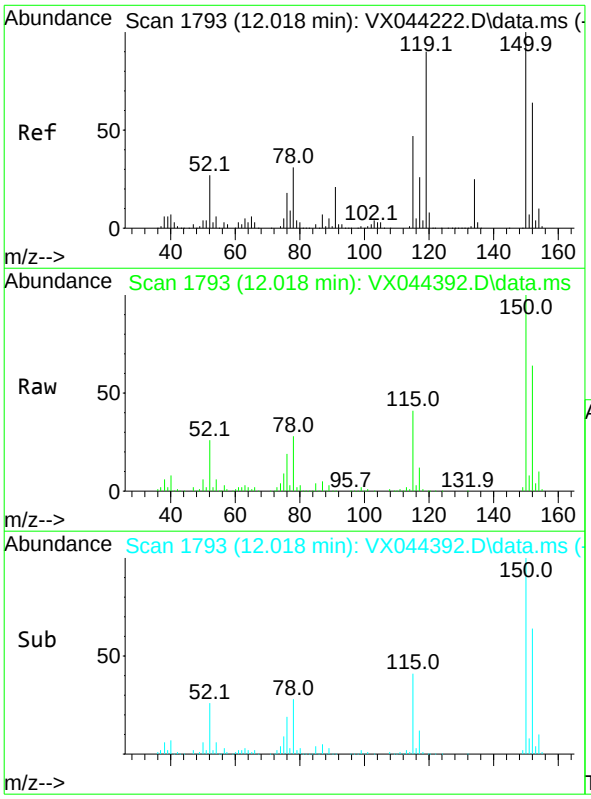
#64
Tetrachloroethene
Concen: 0.448 ug/l
RT: 9.281 min Scan# 13
Delta R.T. 0.012 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213

Tgt Ion:164 Resp: 530

Ion	Ratio	Lower	Upper
164	100		
166	67.2	100.4	150.6#
129	53.8	77.2	115.8#
131	22.5	76.2	114.2#

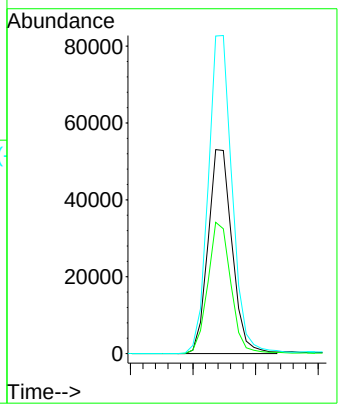




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044392.D
Acq: 18 Dec 2024 18:42

Tgt Ion:152 Resp: 70750

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.5	133.3
150	155.1	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE115D1-20241213DL	SDG No.:	P5281
Lab Sample ID:	P5281-06DL	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
VX044455.D	20		12/20/24 16:19	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.0	UD	4.20	10.0	20.0	ug/L
74-87-3	Chloromethane	10.0	UD	7.00	10.0	20.0	ug/L
75-01-4	Vinyl Chloride	15.0	UD	6.80	15.0	20.0	ug/L
74-83-9	Bromomethane	75.0	UD	27.2	75.0	100	ug/L
75-00-3	Chloroethane	15.0	UD	11.2	15.0	20.0	ug/L
75-69-4	Trichlorofluoromethane	10.0	UD	6.80	10.0	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	32.6	D	5.00	10.0	20.0	ug/L
75-35-4	1,1-Dichloroethene	11.9	JD	5.20	15.0	20.0	ug/L
67-64-1	Acetone	75.0	UD	27.8	75.0	100	ug/L
75-15-0	Carbon Disulfide	15.0	UD	6.40	15.0	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	10.0	UD	3.20	10.0	20.0	ug/L
79-20-9	Methyl Acetate	15.0	UD	12.0	15.0	20.0	ug/L
75-09-2	Methylene Chloride	10.0	UD	6.40	10.0	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	10.0	UD	5.00	10.0	20.0	ug/L
75-34-3	1,1-Dichloroethane	10.0	UD	4.60	10.0	20.0	ug/L
110-82-7	Cyclohexane	50.0	UD	32.4	50.0	100	ug/L
78-93-3	2-Butanone	50.0	UD	26.0	50.0	100	ug/L
56-23-5	Carbon Tetrachloride	10.0	UD	5.00	10.0	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	15.0	UD	5.00	15.0	20.0	ug/L
74-97-5	Bromochloromethane	10.0	UD	3.60	10.0	20.0	ug/L
67-66-3	Chloroform	10.0	UD	5.20	10.0	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	10.0	UD	3.80	10.0	20.0	ug/L
108-87-2	Methylcyclohexane	10.0	UD	3.80	10.0	20.0	ug/L
71-43-2	Benzene	10.0	UD	3.20	10.0	20.0	ug/L
107-06-2	1,2-Dichloroethane	10.0	UD	4.80	10.0	20.0	ug/L
79-01-6	Trichloroethene	670	D	6.40	15.0	20.0	ug/L
78-87-5	1,2-Dichloropropane	10.0	UD	3.80	10.0	20.0	ug/L
75-27-4	Bromodichloromethane	10.0	UD	4.80	10.0	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	50.0	UD	15.0	50.0	100	ug/L
108-88-3	Toluene	10.0	UD	3.60	10.0	20.0	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE115D1-20241213DL	SDG No.:	P5281
Lab Sample ID:	P5281-06DL	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
VX044455.D	20		12/20/24 16:19	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	10.0	UD	4.20	10.0	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	10.0	UD	3.60	10.0	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	10.0	UD	4.20	10.0	20.0	ug/L
591-78-6	2-Hexanone	50.0	UD	22.6	50.0	100	ug/L
124-48-1	Dibromochloromethane	10.0	UD	3.60	10.0	20.0	ug/L
106-93-4	1,2-Dibromoethane	10.0	UD	3.20	10.0	20.0	ug/L
127-18-4	Tetrachloroethene	10.0	UD	5.00	10.0	20.0	ug/L
108-90-7	Chlorobenzene	10.0	UD	2.60	10.0	20.0	ug/L
100-41-4	Ethyl Benzene	10.0	UD	3.20	10.0	20.0	ug/L
179601-23-1	m/p-Xylenes	20.0	UD	6.20	20.0	40.0	ug/L
95-47-6	o-Xylene	10.0	UD	2.80	10.0	20.0	ug/L
100-42-5	Styrene	10.0	UD	3.20	10.0	20.0	ug/L
75-25-2	Bromoform	10.0	UD	4.20	10.0	20.0	ug/L
98-82-8	Isopropylbenzene	10.0	UD	2.60	10.0	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	10.0	UD	5.40	10.0	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	10.0	UD	4.80	10.0	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	10.0	UD	5.40	10.0	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	10.0	UD	3.80	10.0	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	15.0	UD	9.20	15.0	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	10.0	UD	8.40	10.0	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.0	UD	10.2	15.0	20.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.6		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	46.1		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	50.3		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	216000	6.757				
3114-55-4	Chlorobenzene-d5	192000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	80400	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	RE115D1-20241213DL	SDG No.:	P5281
Lab Sample ID:	P5281-06DL	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
VX044455.D	20		12/20/24 16:19	VX122024

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\VX122024\
Data File : VX044455.D
Acq On : 20 Dec 2024 16:19
Operator : JC/MD
Sample : P5281-06DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213DL

Quant Time: Dec 20 22:27:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

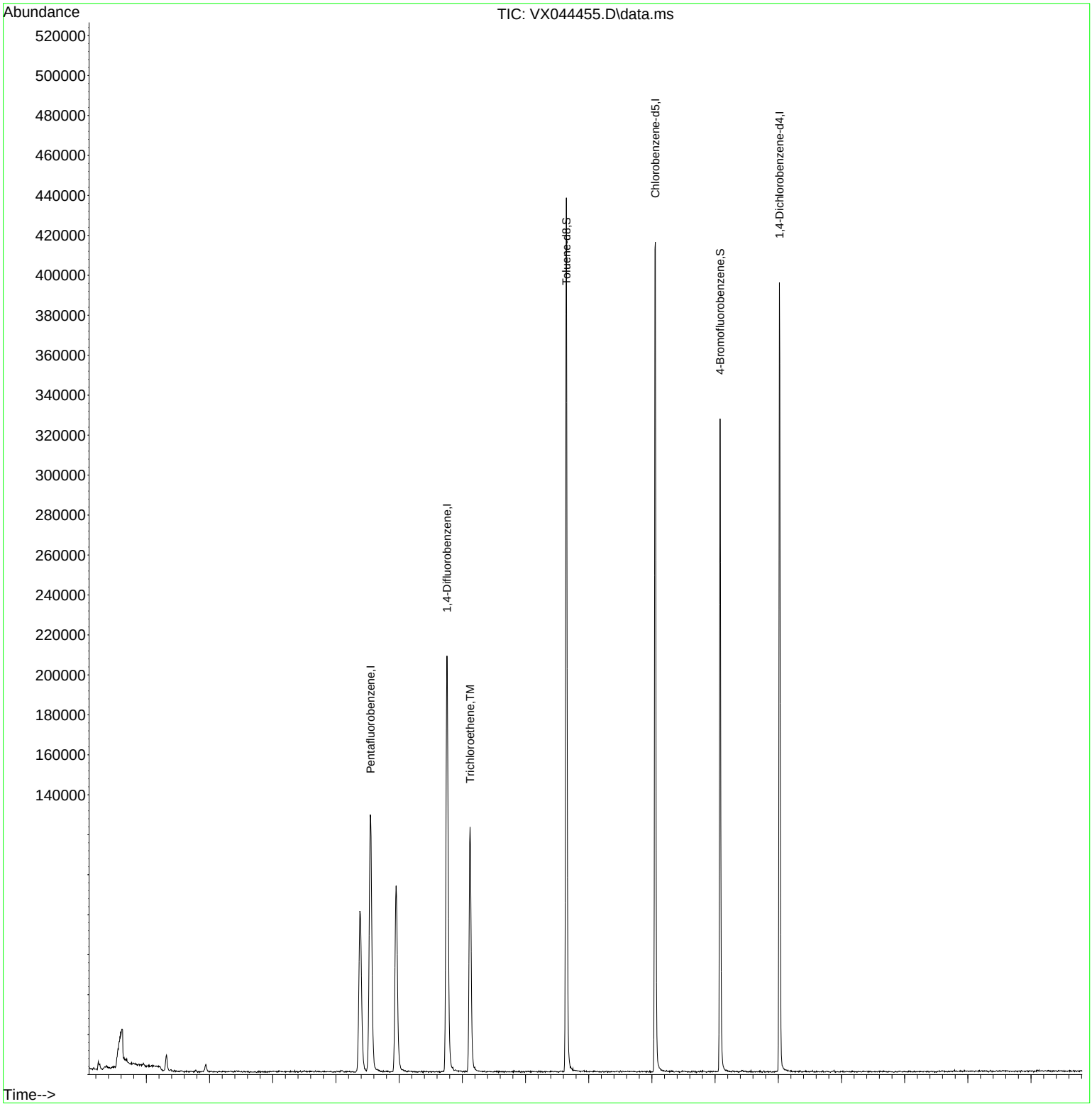
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	121258	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	216230	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	191670	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	80370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	90673	42.649	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.300%			
35) Dibromofluoromethane	5.379	113	69035	46.097	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.200%			
50) Toluene-d8	8.647	98	254320	50.336	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.680%			
62) 4-Bromofluorobenzene	11.079	95	80586	45.646	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.300%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.319	101	2415	1.632	ug/l	98
12) 1,1-Dichloroethene	2.313	96	809	0.595	ug/l	96
16) Acetone	2.386	43	348	0.401	ug/l	97
44) Trichloroethene	7.123	130	49142	33.528	ug/l	95

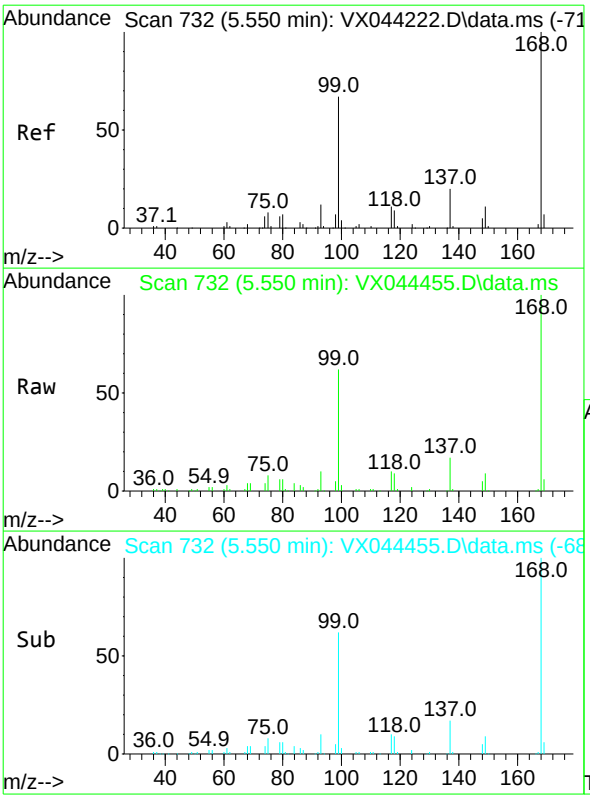
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044455.D
Acq On : 20 Dec 2024 16:19
Operator : JC/MD
Sample : P5281-06DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213DL

Quant Time: Dec 20 22:27:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



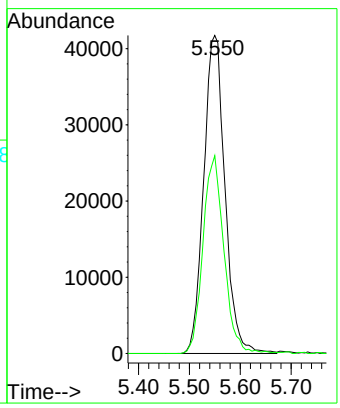


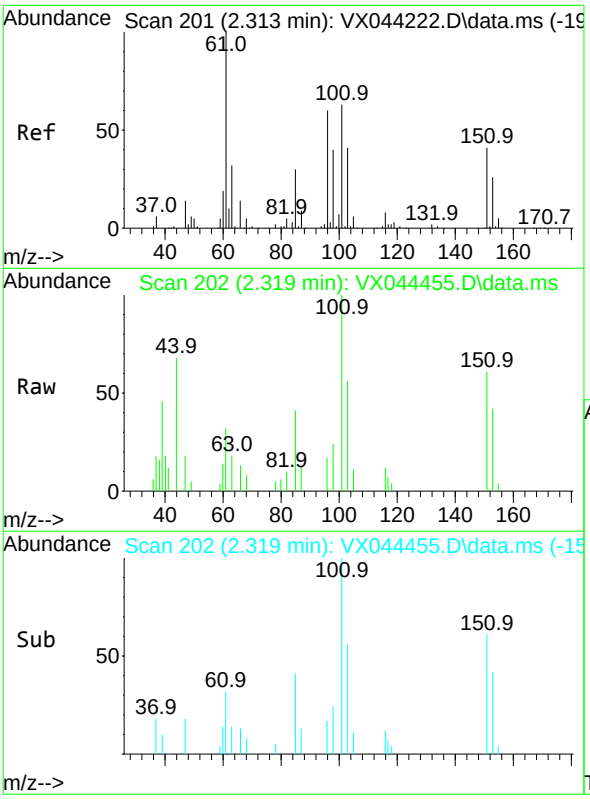
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:168 Resp: 121258

Ion	Ratio	Lower	Upper
168	100		
99	62.2	53.4	80.0

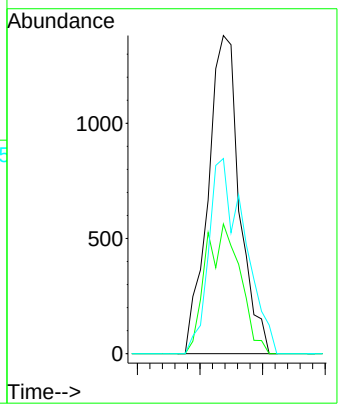


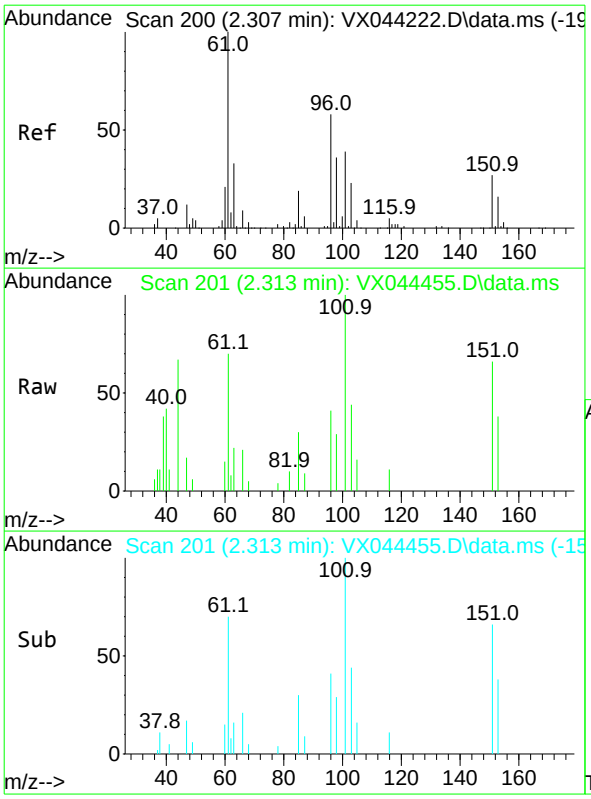


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.632 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Tgt Ion:101 Resp: 2415

Ion	Ratio	Lower	Upper
101	100		
85	44.9	38.5	57.7
151	69.8	55.8	83.6



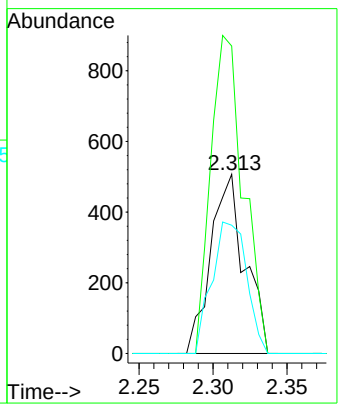


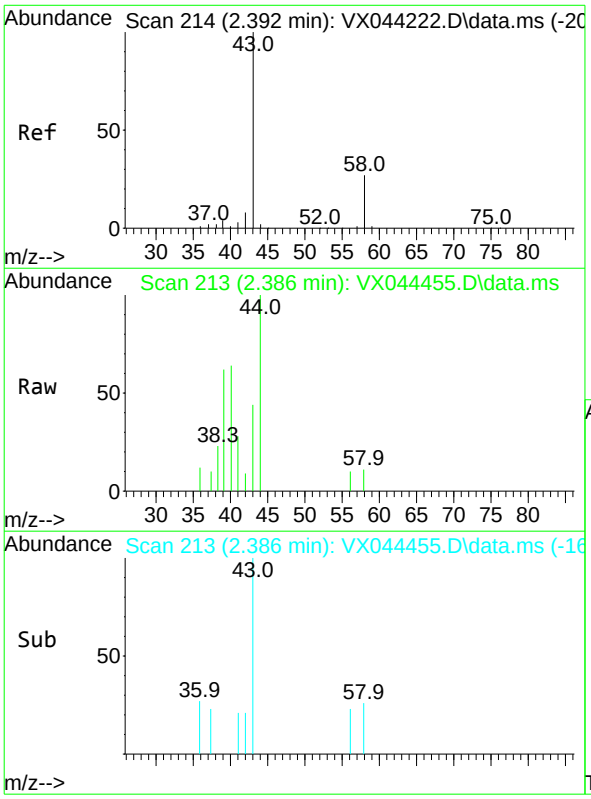
#12
1,1-Dichloroethene
Concen: 0.595 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213DL

Tgt Ion: 96 Resp: 809

Ion	Ratio	Lower	Upper
96	100		
61	171.6	138.0	207.0
98	71.6	50.0	75.0

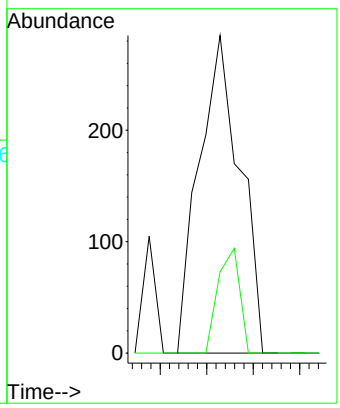


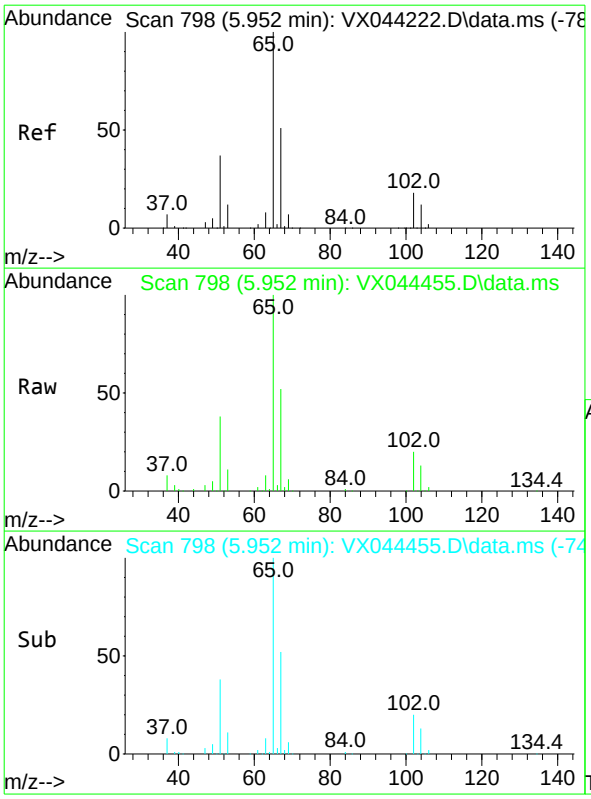


#16
Acetone
Concen: 0.401 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Tgt Ion: 43 Resp: 348

Ion	Ratio	Lower	Upper
43	100		
58	25.6	21.6	32.4



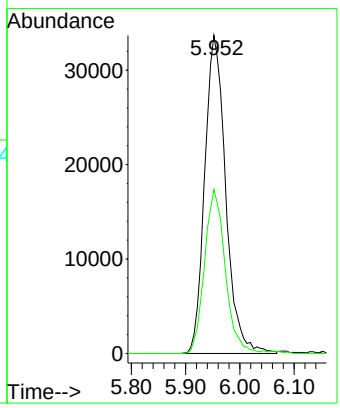


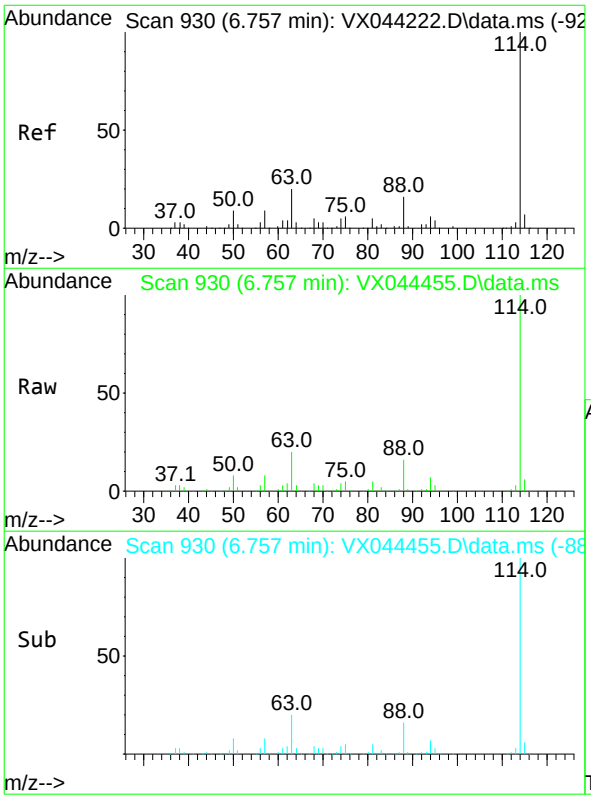
#33
1,2-Dichloroethane-d4
Concen: 42.649 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213DL

Tgt Ion: 65 Resp: 90673

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	101.6

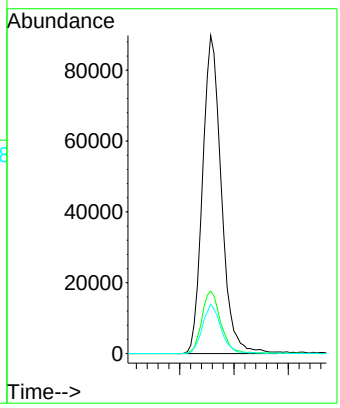


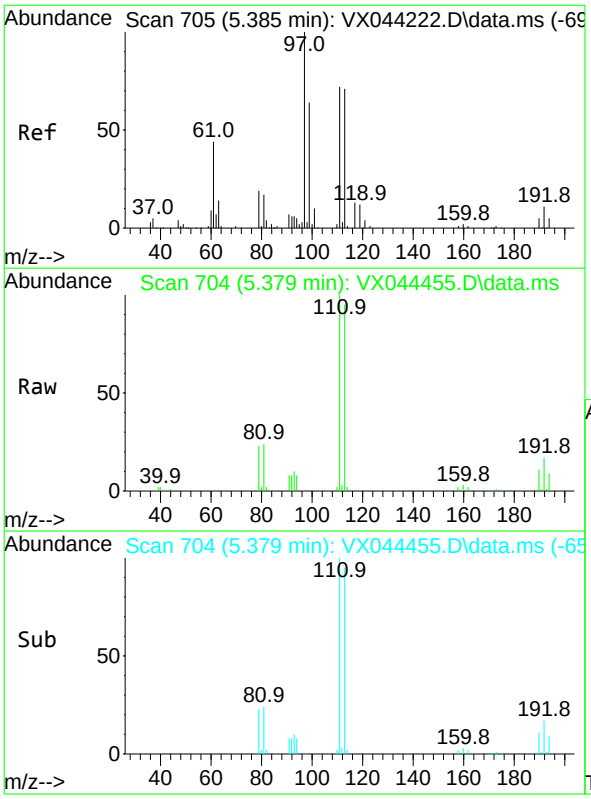


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Tgt Ion:114 Resp: 216230

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	40.6
88	15.5	0.0	31.8



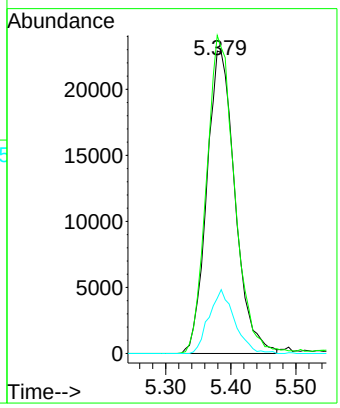


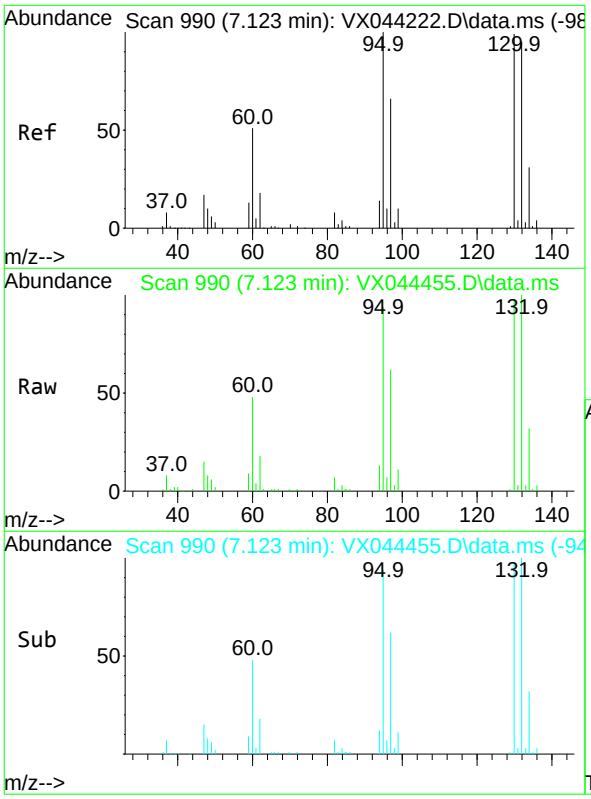
#35
Dibromofluoromethane
Concen: 46.097 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:113 Resp: 69035

Ion	Ratio	Lower	Upper
113	100		
111	104.3	80.4	120.6
192	19.2	13.3	19.9

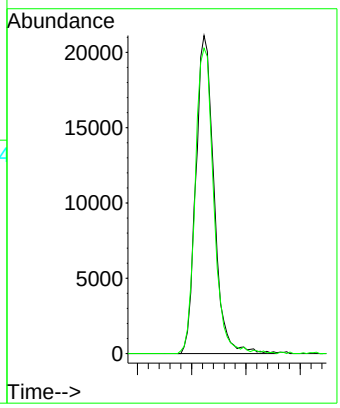


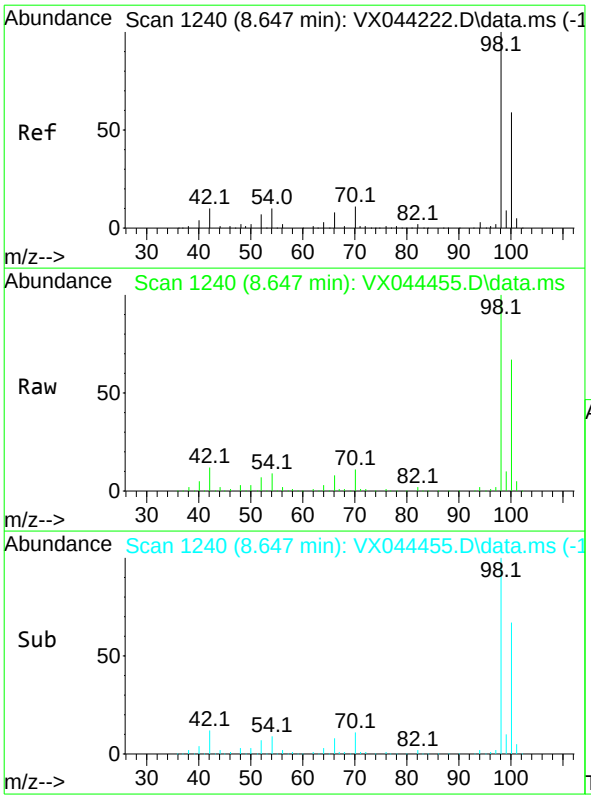


#44
Trichloroethene
Concen: 33.528 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Tgt Ion:130 Resp: 49142

Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	201.4



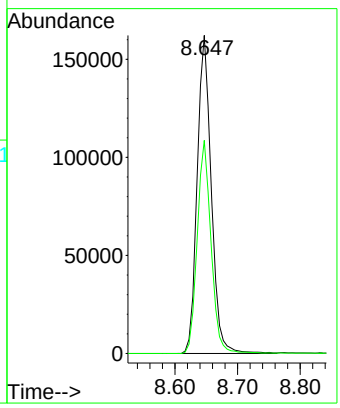


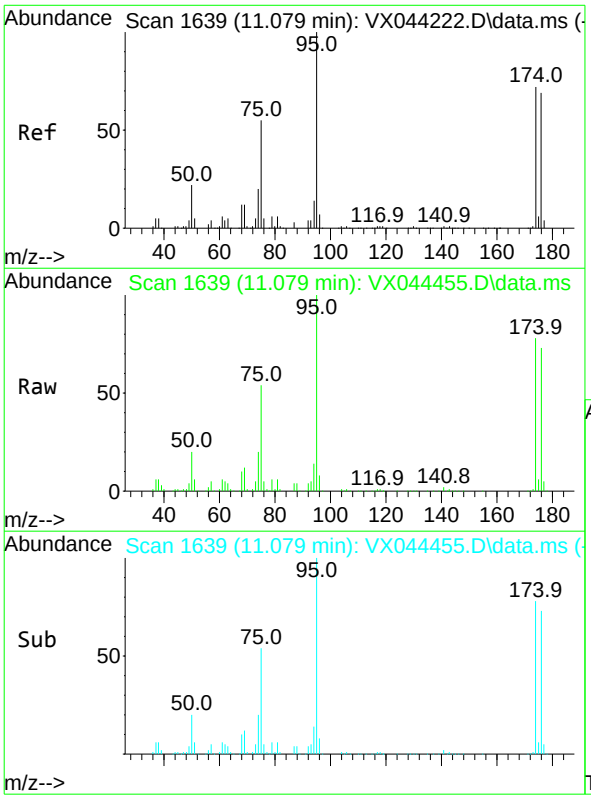
#50
Toluene-d8
Concen: 50.336 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213DL

Tgt Ion: 98 Resp: 254320

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.5	77.3

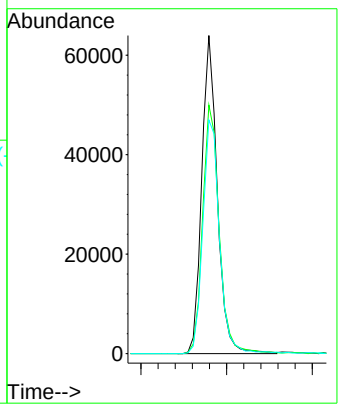


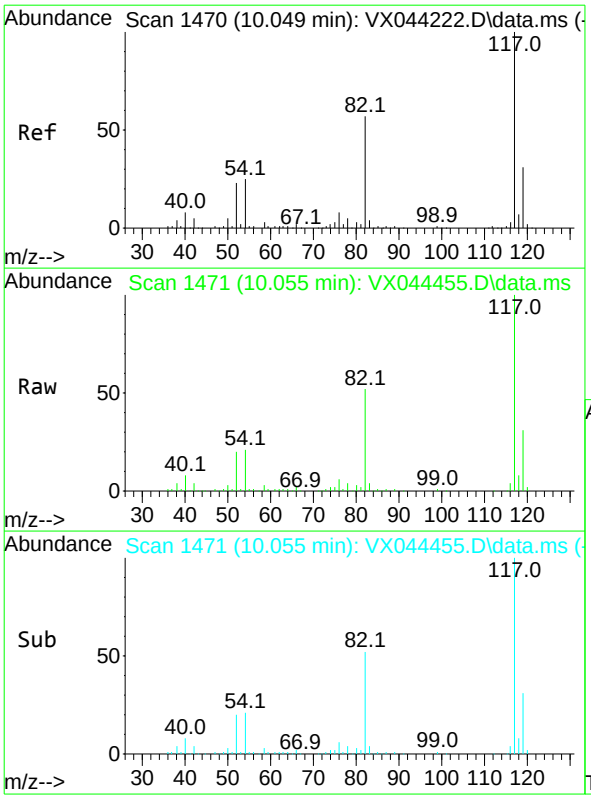


#62
4-Bromofluorobenzene
Concen: 45.646 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Tgt Ion: 95 Resp: 80586

Ion	Ratio	Lower	Upper
95	100		
174	82.9	0.0	145.8
176	78.8	0.0	137.8



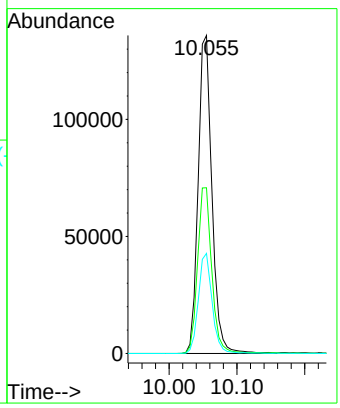


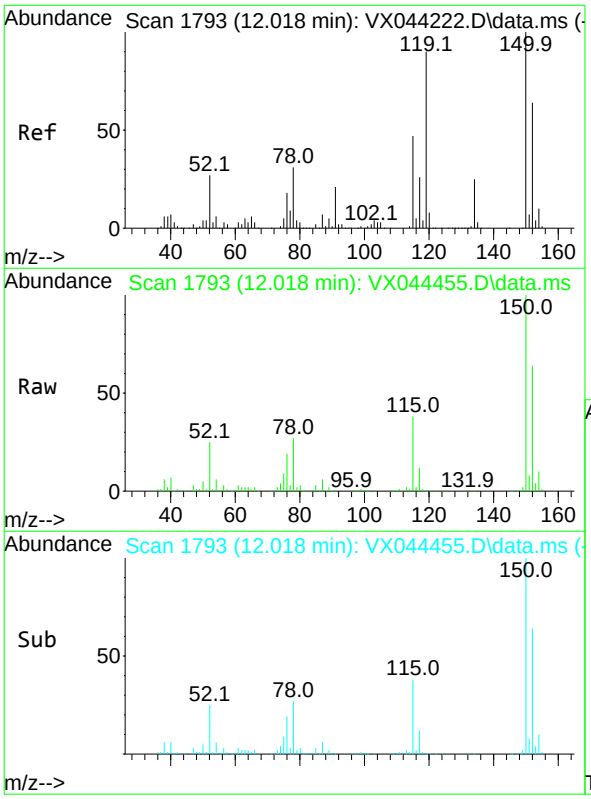
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20241213DL

Tgt Ion:117 Resp: 191670

Ion	Ratio	Lower	Upper
117	100		
82	52.1	45.8	68.8
119	31.5	25.0	37.4

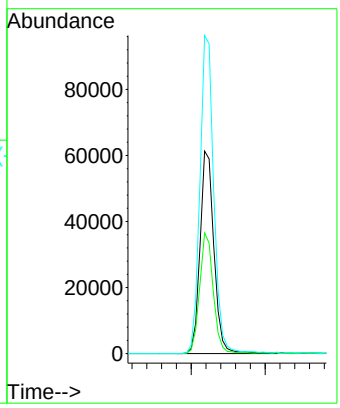




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044455.D
Acq: 20 Dec 2024 16:19

Tgt Ion:152 Resp: 80370

Ion	Ratio	Lower	Upper
152	100		
115	58.4	44.5	133.3
150	156.7	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT189D2-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-07	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
VX044393.D	1		12/18/24 19:05	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.54	J	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.54	J	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	21.4		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.20		0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.90	J	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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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	J	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	2.80		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
67-66-3	Chloroform	0.42	J	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	94.8		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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT189D2-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-07	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
VX044393.D	1		12/18/24 19:05	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.39	J	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.0		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	218000	6.757				
3114-55-4	Chlorobenzene-d5	190000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	76700	12.018				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TT189D2-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-07	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
VX044393.D	1		12/18/24 19:05	VX121824

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\VX121824\
Data File : VX044393.D
Acq On : 18 Dec 2024 19:05
Operator : JC/MD
Sample : P5281-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 19 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	120659	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218055	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	189518	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76670	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	93052	43.985	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.960%			
35) Dibromofluoromethane	5.385	113	69510	46.026	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.060%			
50) Toluene-d8	8.647	98	258473	50.730	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.460%			
62) 4-Bromofluorobenzene	11.079	95	83335	46.808	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1005	0.539	ug/l	98
3) Chloromethane	1.294	50	963	0.540	ug/l #	83
9) 1,1,2-Trichlorotrifluo...	2.319	101	31525	21.410	ug/l	97
12) 1,1-Dichloroethene	2.313	96	1614	1.193	ug/l #	75
16) Acetone	2.392	43	1671	1.937	ug/l #	74
20) Methylene Chloride	2.782	84	452	0.279	ug/l #	62
27) cis-1,2-Dichloroethene	4.489	96	5069	2.777	ug/l	94
30) Chloroform	5.086	83	1318m	0.415	ug/l	
38) Carbon Tetrachloride	5.678	117	1040	0.495	ug/l #	80
44) Trichloroethene	7.123	130	140111	94.793	ug/l	98
64) Tetrachloroethene	9.275	164	489	0.389	ug/l #	82

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044393.D
Acq On : 18 Dec 2024 19:05
Operator : JC/MD
Sample : P5281-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 19 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
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ClientSampleId :
TT189D2-20241213

Manual Integrations APPROVED

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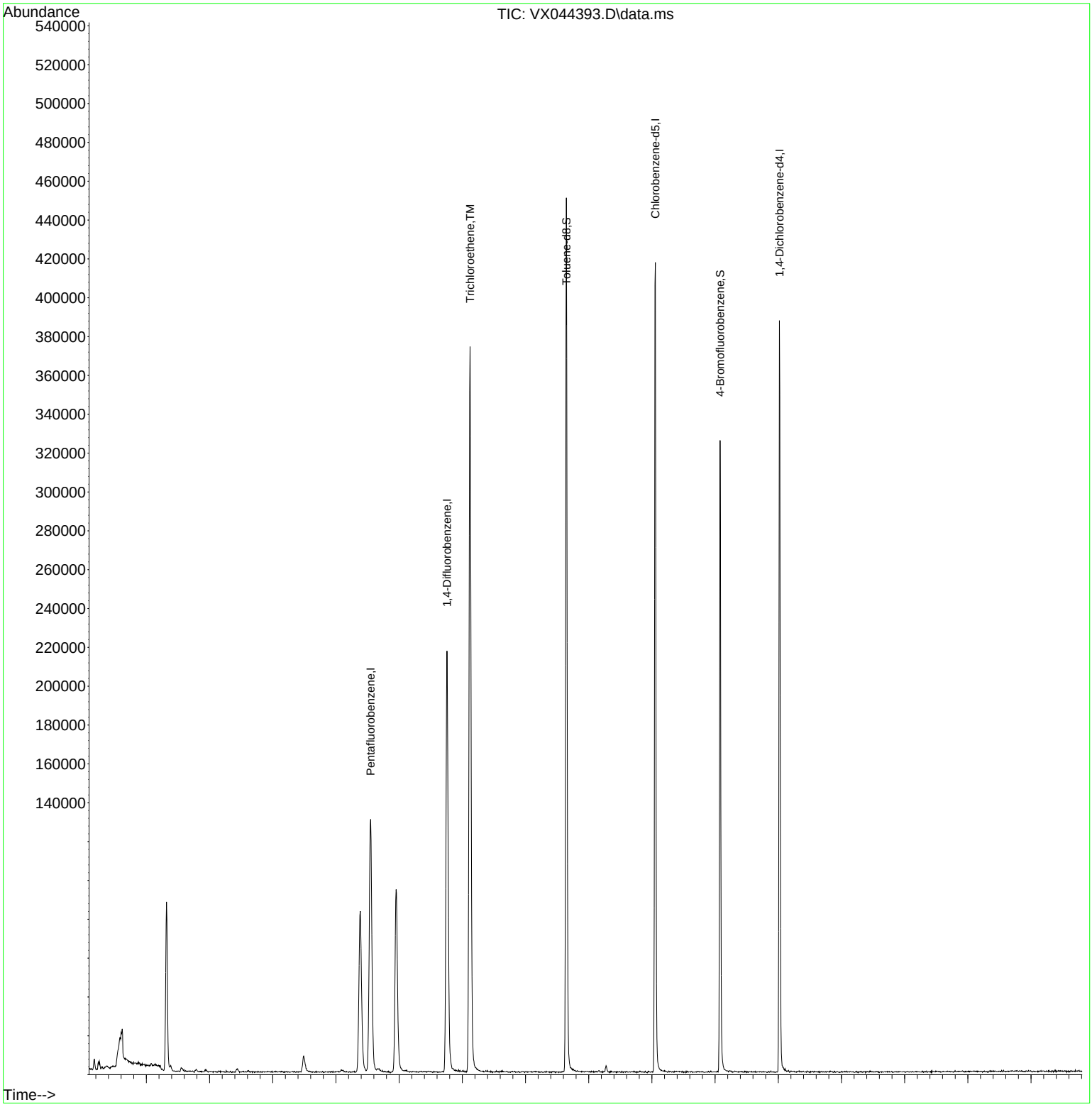
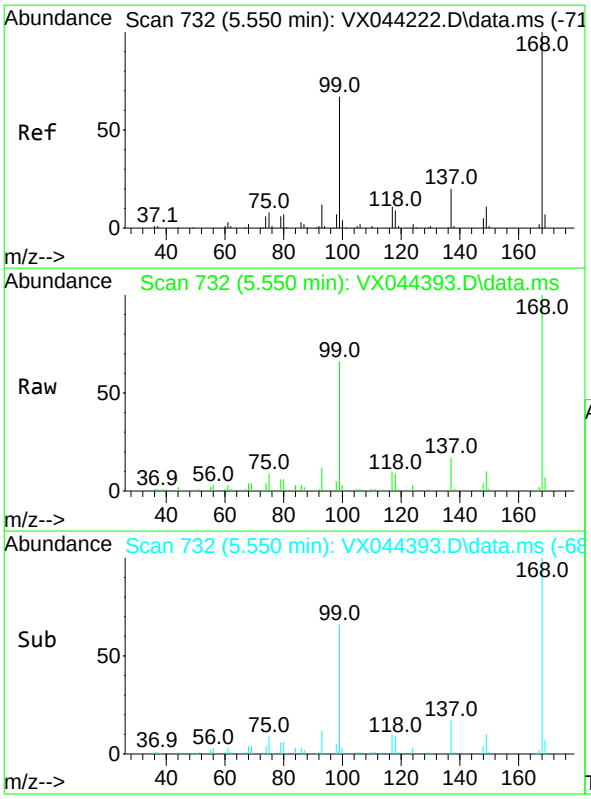
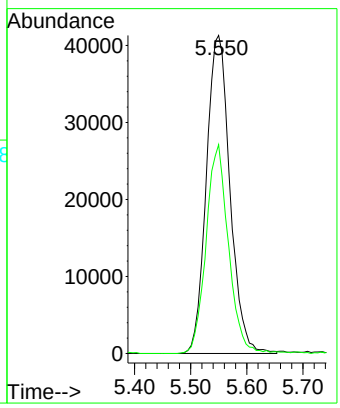




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:168 Resp: 120659

Ion	Ratio	Lower	Upper
168	100		
99	65.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

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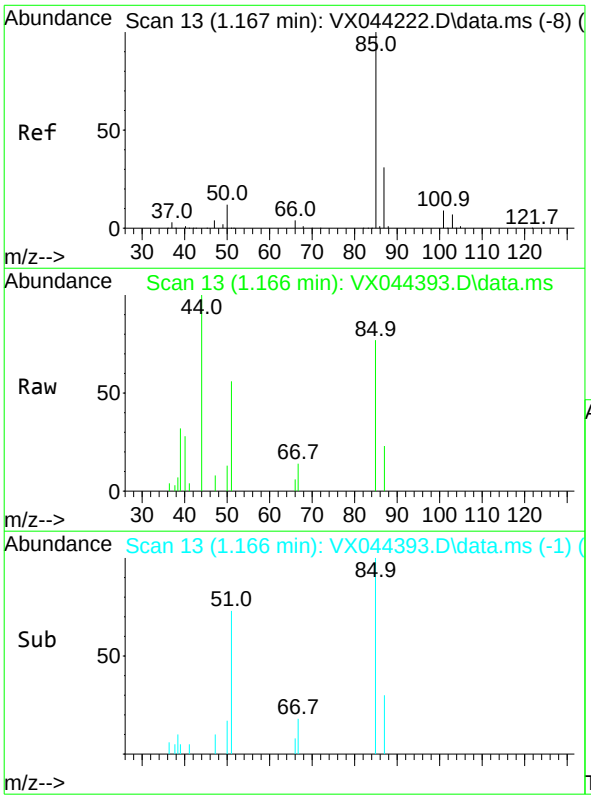
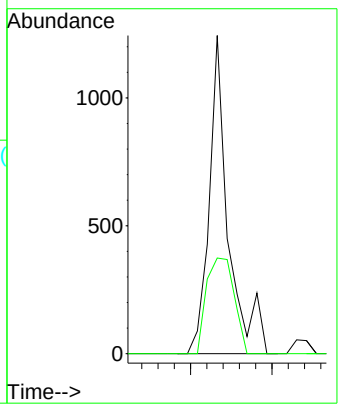
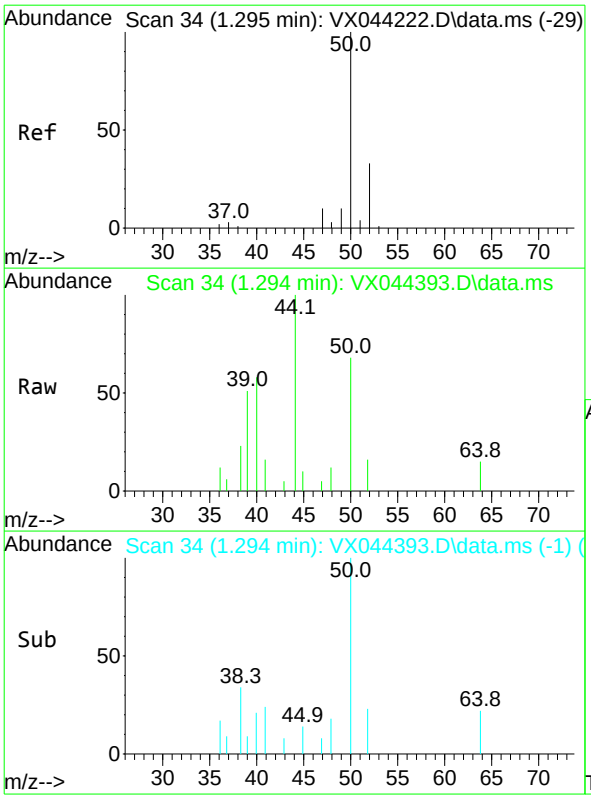


#2
Dichlorodifluoromethane
Concen: 0.539 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 85 Resp: 1005

Ion	Ratio	Lower	Upper
85	100		
87	30.1	15.4	46.4

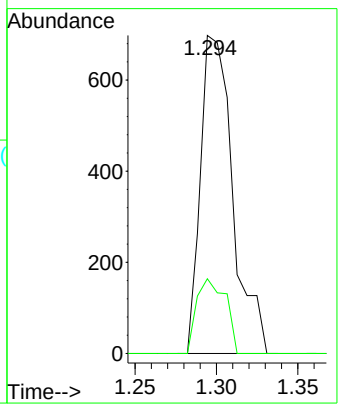




#3
Chloromethane
Concen: 0.540 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 50 Resp: 963

Ion	Ratio	Lower	Upper
50	100		
52	23.5	26.5	39.7#



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations
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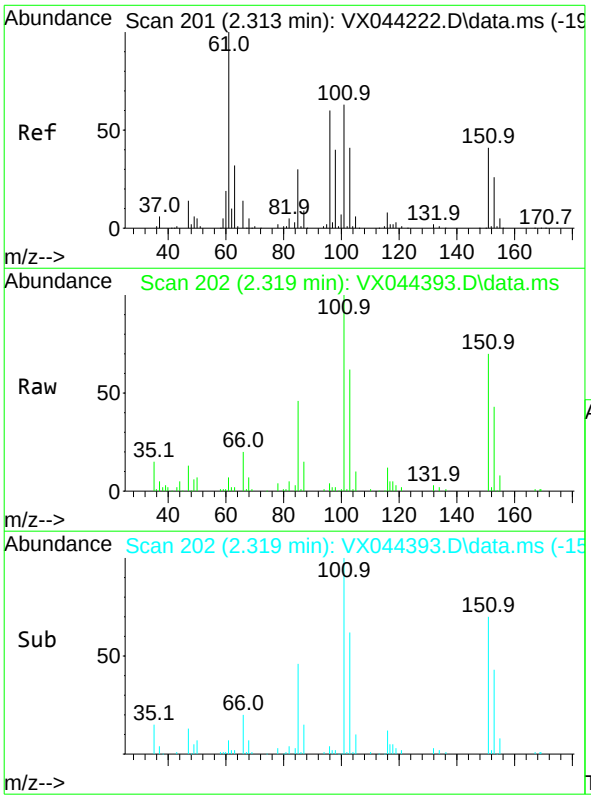
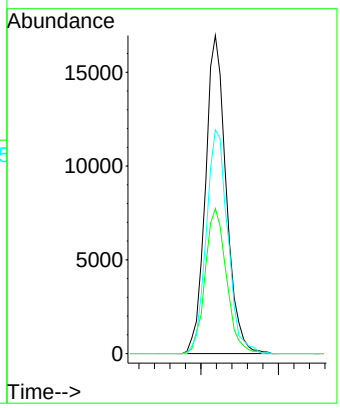
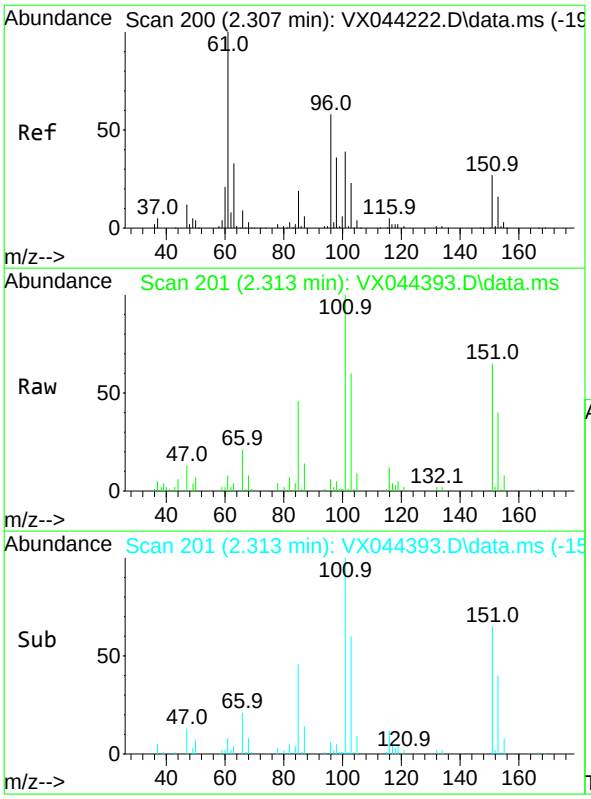


#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.410 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:101 Resp: 31525

Ion	Ratio	Lower	Upper
101	100		
85	46.8	38.5	57.7
151	72.7	55.8	83.6

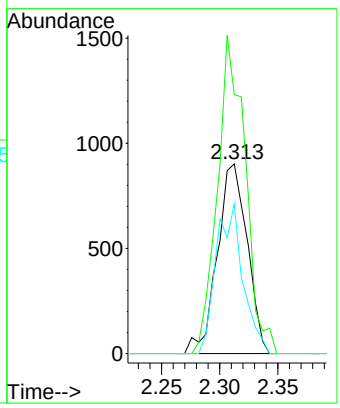




#12
1,1-Dichloroethene
Concen: 1.193 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 96 Resp: 1614

Ion	Ratio	Lower	Upper
96	100		
61	136.5	138.0	207.0#
98	78.8	50.0	75.0#



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
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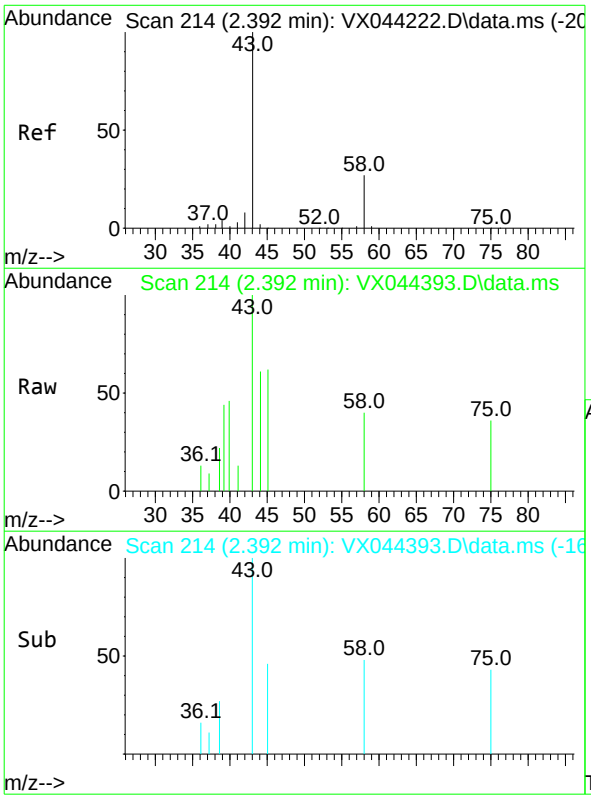
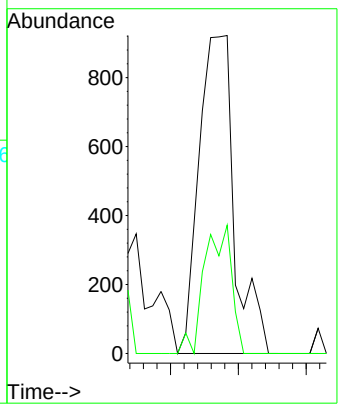
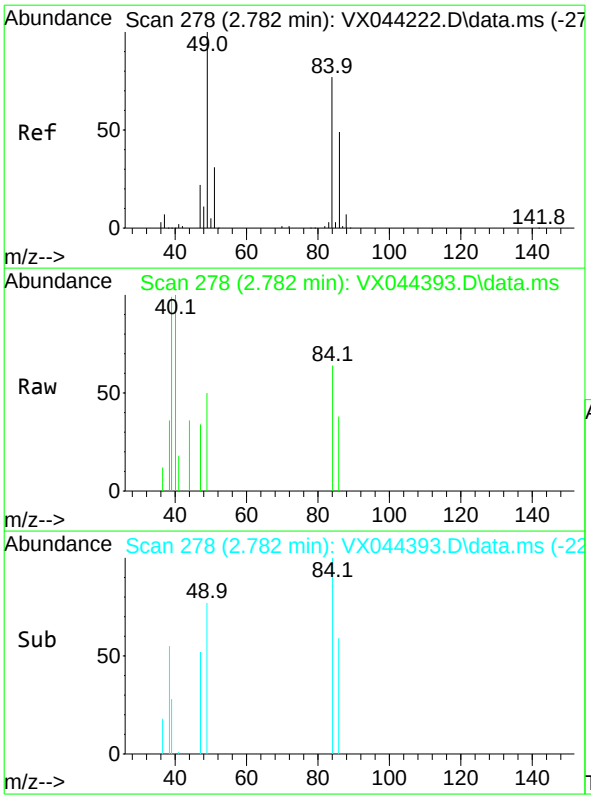


#16
Acetone
Concen: 1.937 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 43 Resp: 1671

Ion	Ratio	Lower	Upper
43	100		
58	40.3	21.6	32.4#

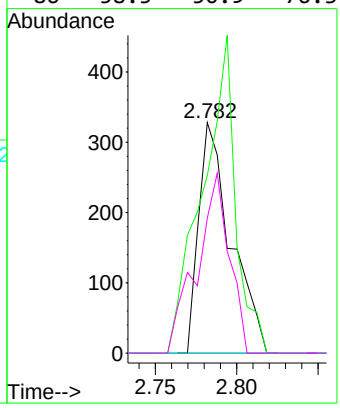




#20
Methylene Chloride
Concen: 0.279 ug/l
RT: 2.782 min Scan# 27
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 84 Resp: 452

Ion	Ratio	Lower	Upper
84	100		
49	77.1	104.2	156.4#
51	0.0	32.2	48.4#
86	58.5	50.9	76.3



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
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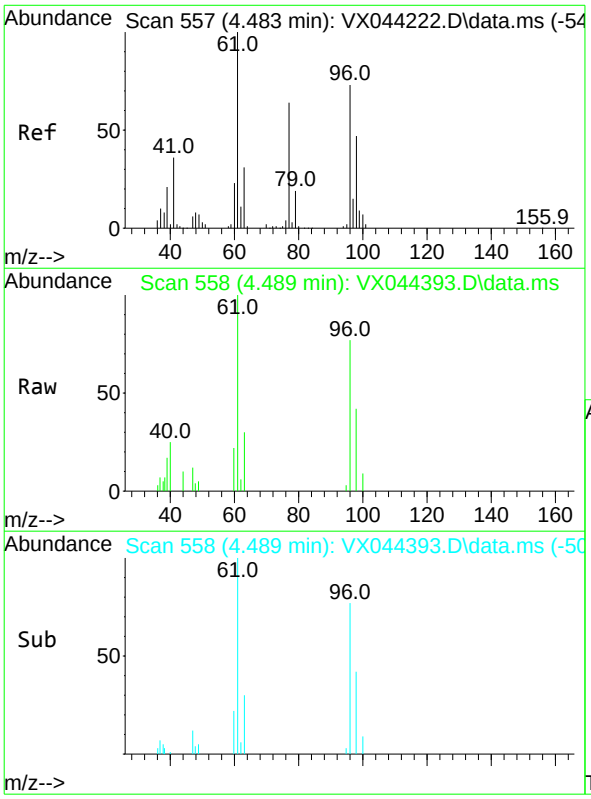
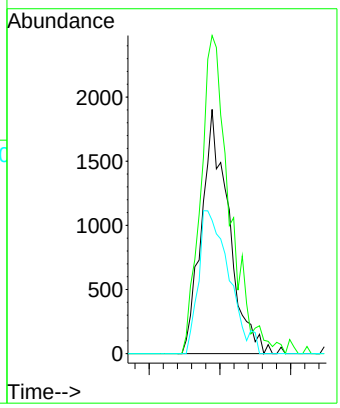
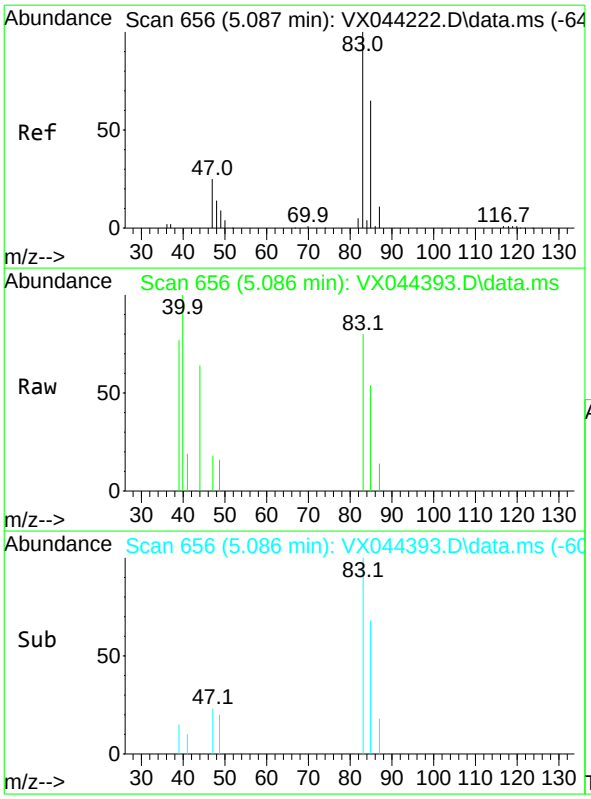


#27
cis-1,2-Dichloroethene
Concen: 2.777 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 96 Resp: 5069

Ion	Ratio	Lower	Upper
96	100		
61	139.2	0.0	299.0
98	65.8	0.0	129.0

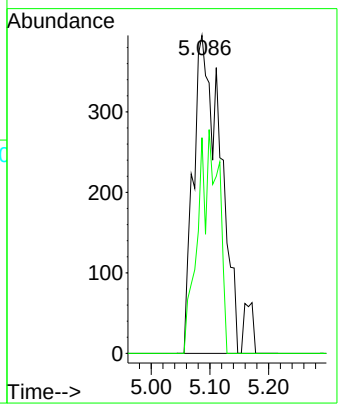




#30
Chloroform
Concen: 0.415 ug/l m
RT: 5.086 min Scan# 65
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 83 Resp: 1318

Ion	Ratio	Lower	Upper
83	100		
85	67.8	51.6	77.4



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

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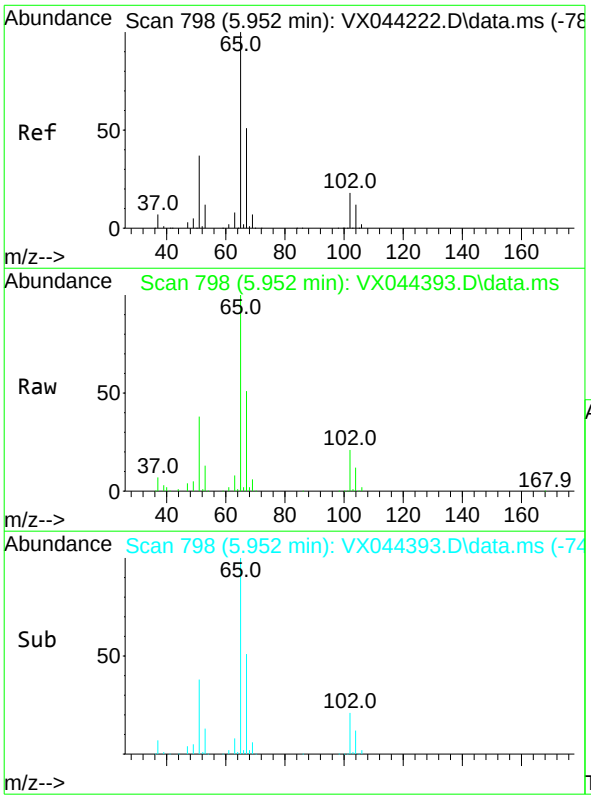
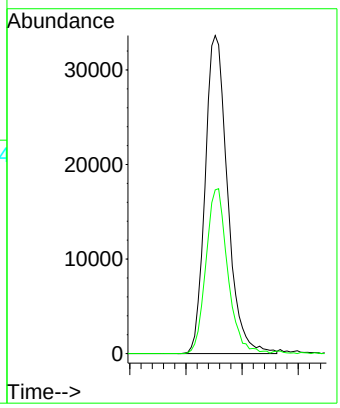
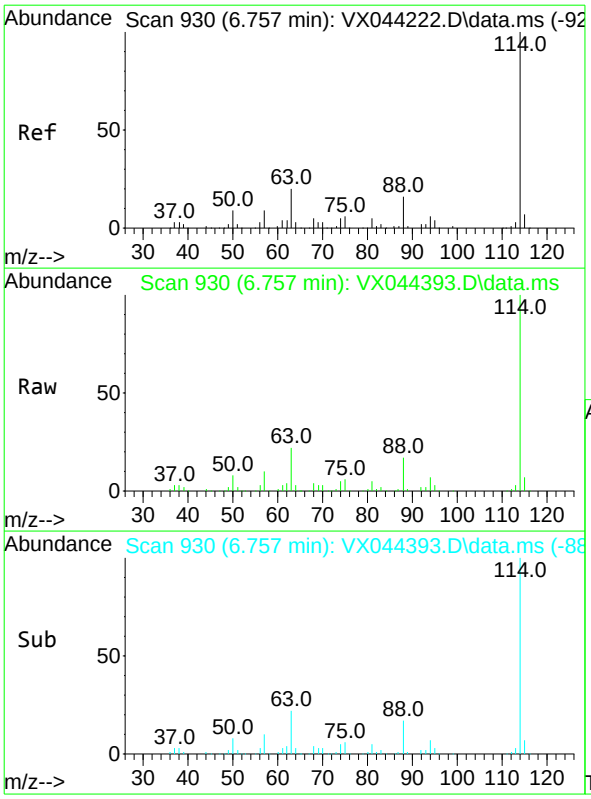


#33
1,2-Dichloroethane-d4
Concen: 43.985 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 65 Resp: 93052

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	101.6





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

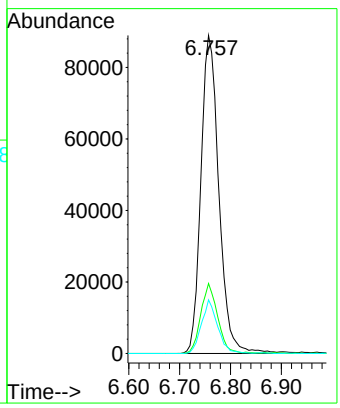
Tgt Ion:114 Resp: 218055

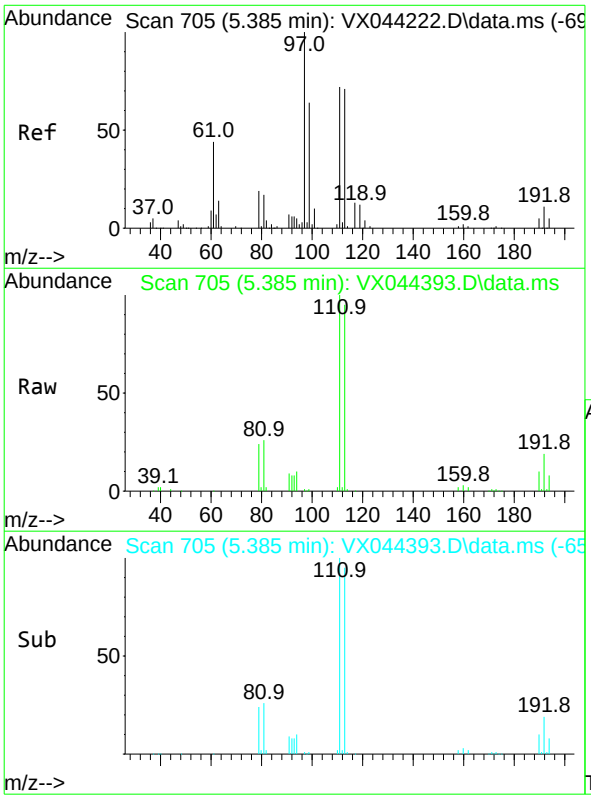
Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.9	0.0	31.8

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

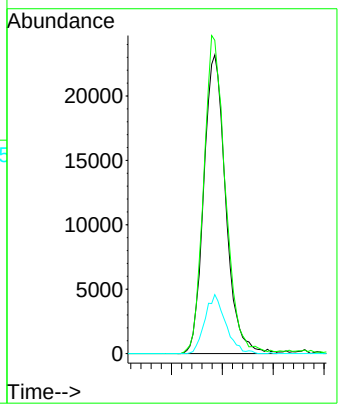


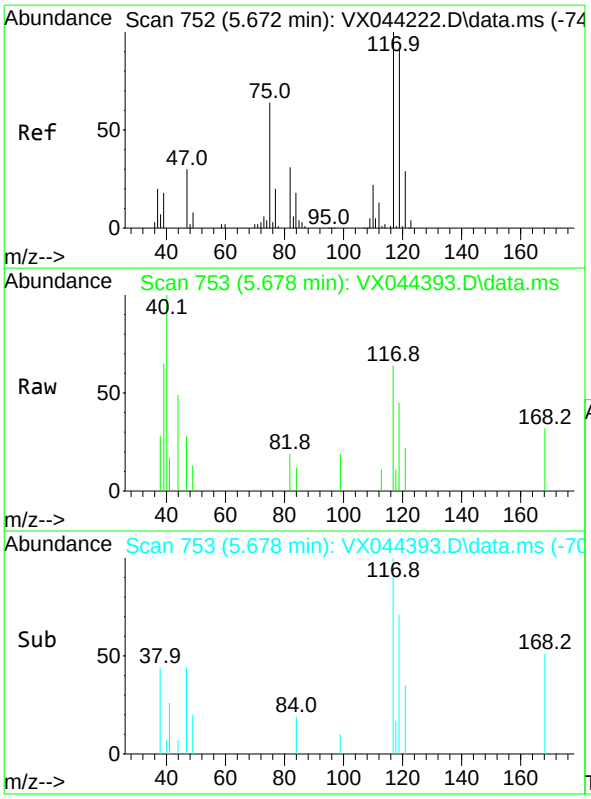


#35
Dibromofluoromethane
Concen: 46.026 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:113 Resp: 69510

Ion	Ratio	Lower	Upper
113	100		
111	105.0	80.4	120.6
192	18.8	13.3	19.9

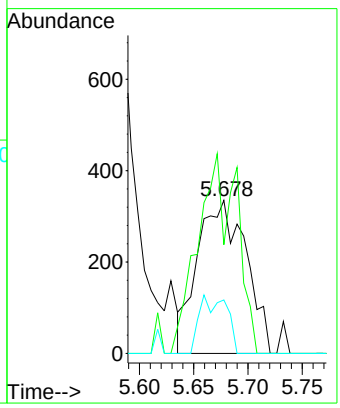




#38
Carbon Tetrachloride
Concen: 0.495 ug/l
RT: 5.678 min Scan# 75
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:117 Resp: 1040

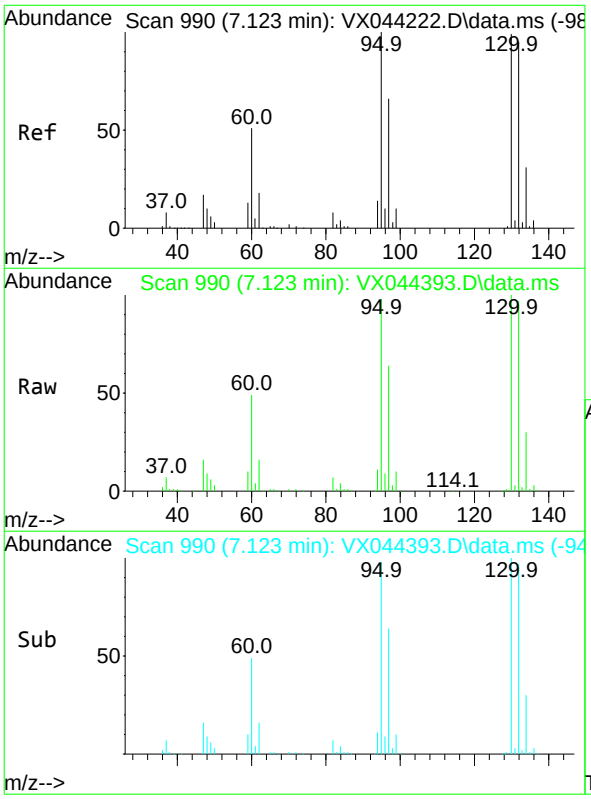
Ion	Ratio	Lower	Upper
117	100		
119	71.0	74.2	111.4#
121	34.9	23.0	34.6#



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

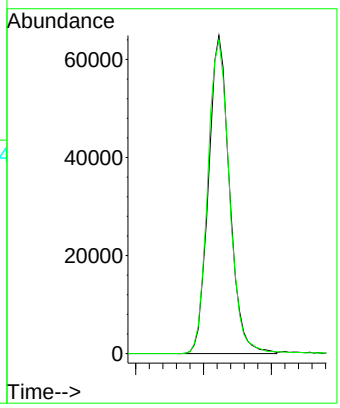
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

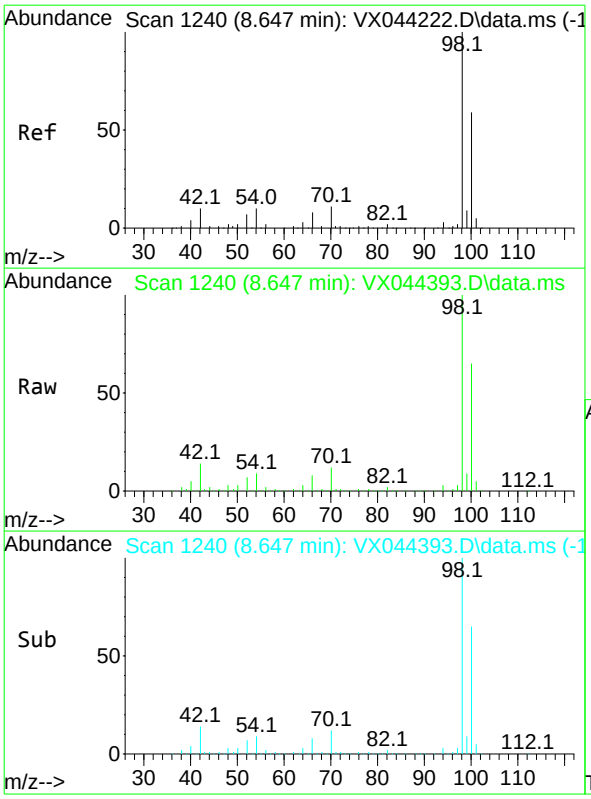


#44
Trichloroethene
Concen: 94.793 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:130 Resp: 140111

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	201.4

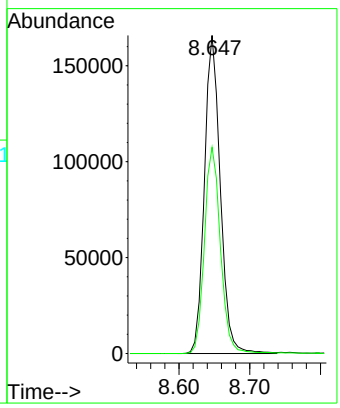




#50
Toluene-d8
Concen: 50.730 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 98 Resp: 258473

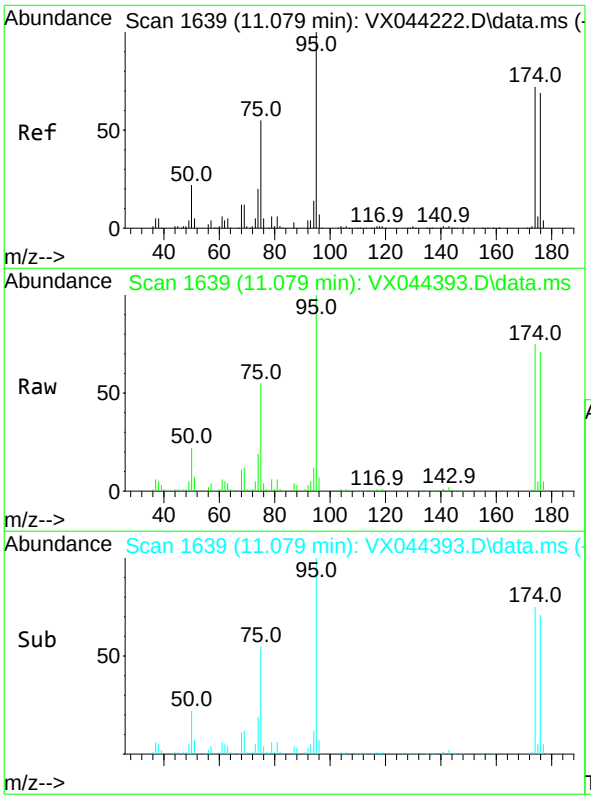
Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

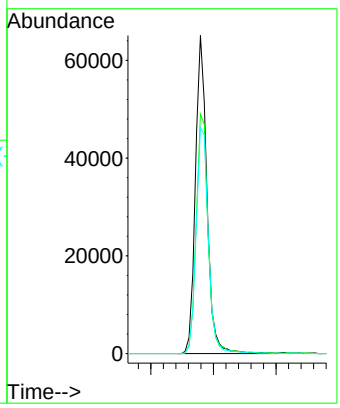
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

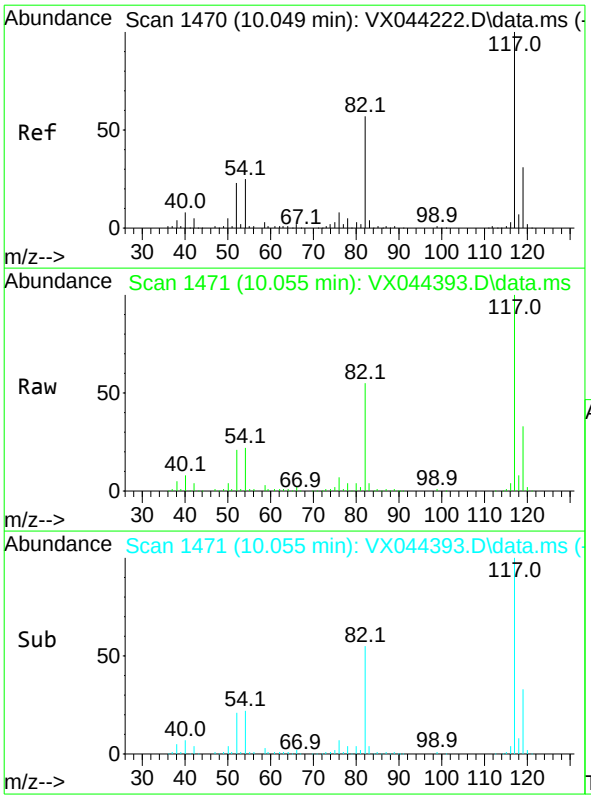


#62
4-Bromofluorobenzene
Concen: 46.808 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 95 Resp: 83335

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	145.8
176	75.5	0.0	137.8

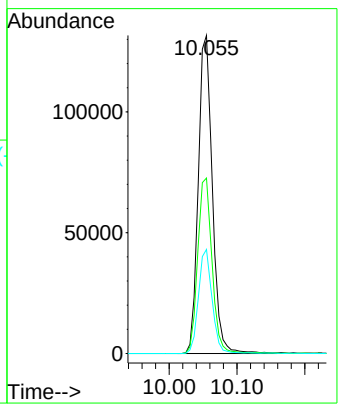




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:117 Resp: 189518

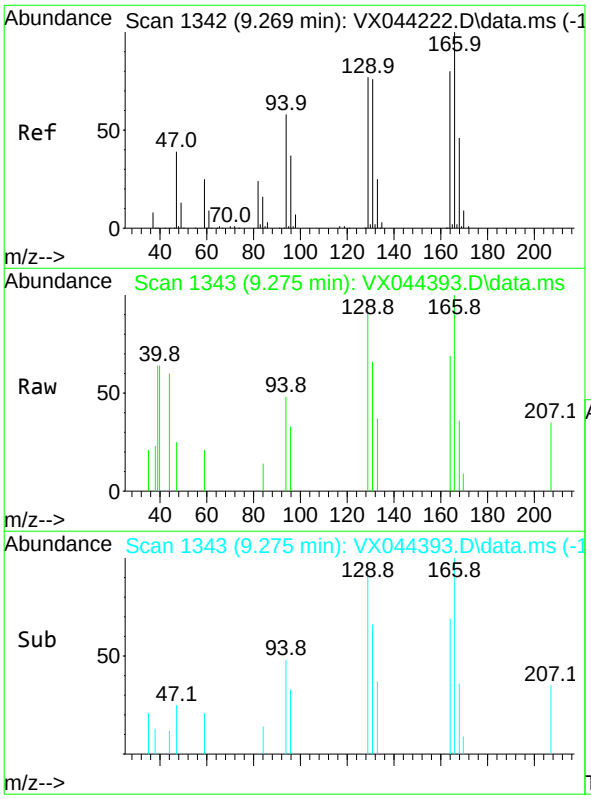
Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.8	68.8
119	32.7	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations APPROVED

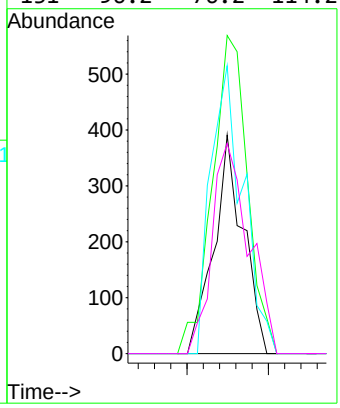
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

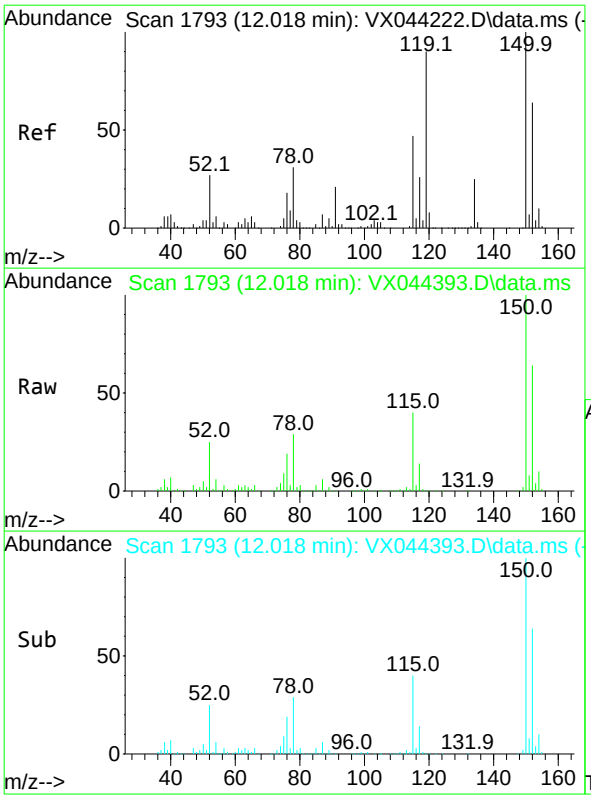


#64
Tetrachloroethene
Concen: 0.389 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:164 Resp: 489

Ion	Ratio	Lower	Upper
164	100		
166	145.5	100.4	150.6
129	131.7	77.2	115.8#
131	96.2	76.2	114.2

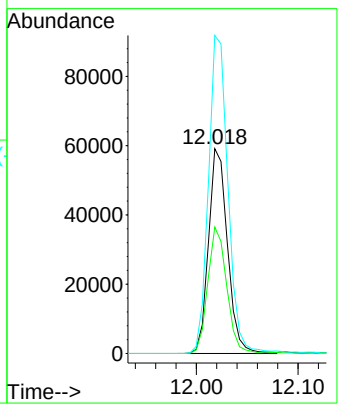




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:152 Resp: 76670

Ion	Ratio	Lower	Upper
152	100		
115	62.0	44.5	133.3
150	160.7	0.0	353.8



Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	FB02-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-08	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
VX044382.D	1		12/18/24 14:48	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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	2.60	J	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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.33	J	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	2.20	J	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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	0.40	J	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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	FB02-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-08	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
VX044382.D	1		12/18/24 14:48	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.8		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	120000	5.55				
540-36-3	1,4-Difluorobenzene	218000	6.757				
3114-55-4	Chlorobenzene-d5	186000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	75100	12.024				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	FB02-20241213	SDG No.:	P5281
Lab Sample ID:	P5281-08	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
VX044382.D	1		12/18/24 14:48	VX121824

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\VX121824\
Data File : VX044382.D
Acq On : 18 Dec 2024 14:48
Operator : JC/MD
Sample : P5281-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 19 00:46:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	120337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	217882	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	185612	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	75075	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	94483	44.781	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.560%			
35) Dibromofluoromethane	5.379	113	71615	47.458	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.920%			
50) Toluene-d8	8.647	98	259965	51.063	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.120%			
62) 4-Bromofluorobenzene	11.079	95	82244	46.232	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.460%			
Target Compounds						Qvalue
16) Acetone	2.380	43	2274	2.644	ug/l #	89
20) Methylene Chloride	2.788	84	534	0.331	ug/l #	82
25) 2-Butanone	4.599	43	2677m	2.189	ug/l	
44) Trichloroethene	7.129	130	584	0.395	ug/l	88

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

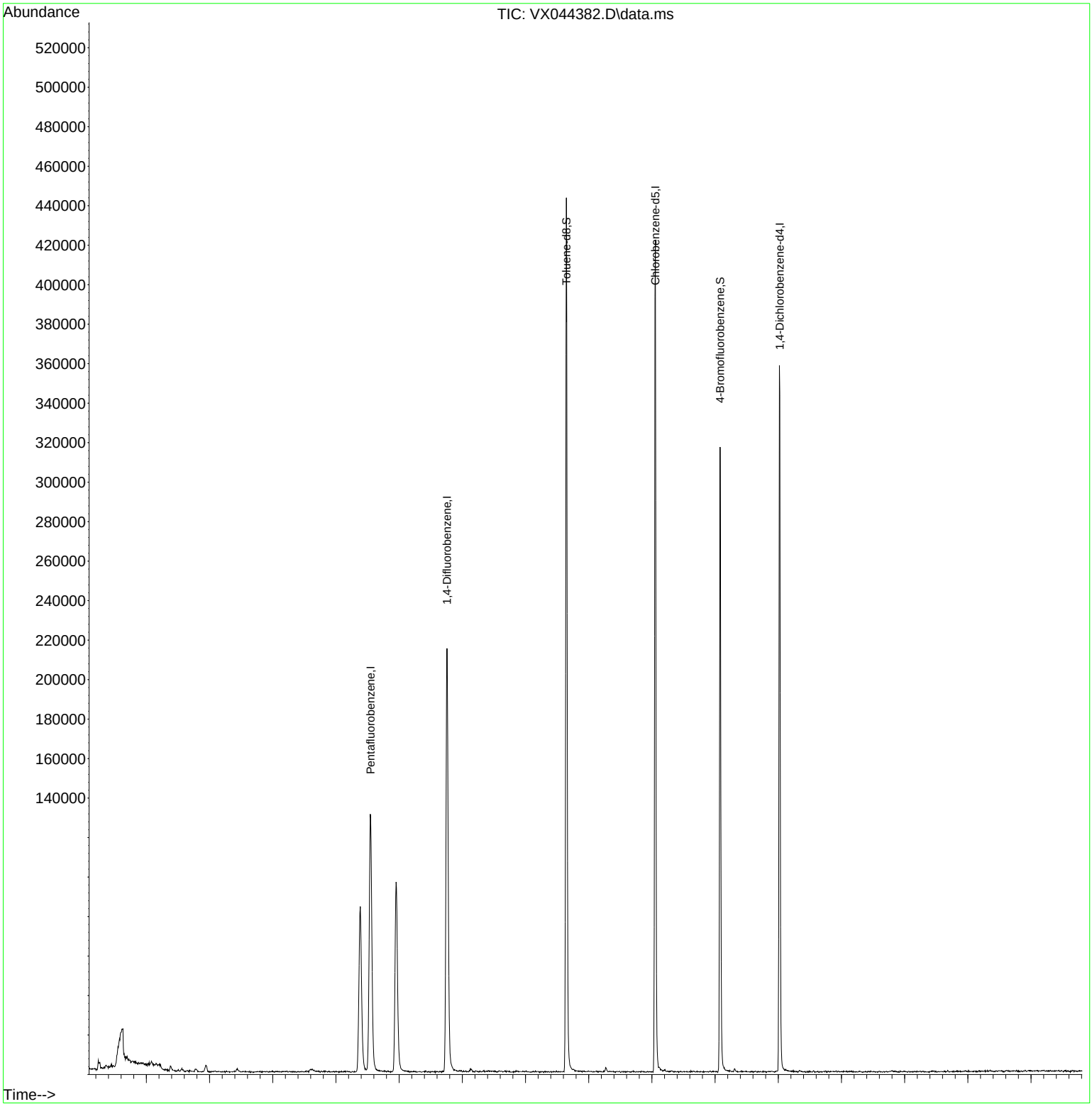
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044382.D
Acq On : 18 Dec 2024 14:48
Operator : JC/MD
Sample : P5281-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

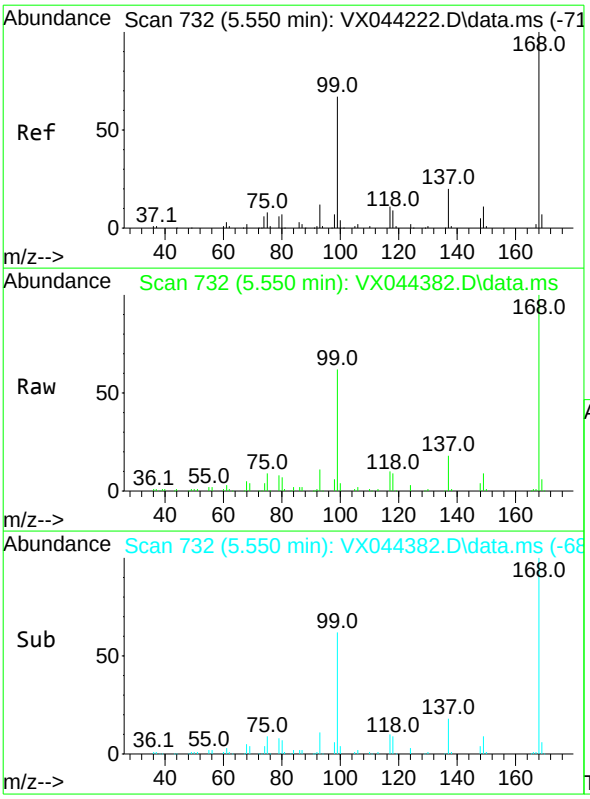
Quant Time: Dec 19 00:46:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

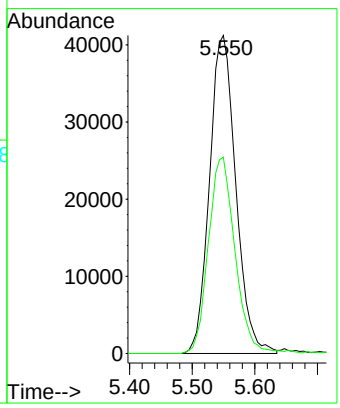




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:168 Resp: 120337

Ion	Ratio	Lower	Upper
168	100		
99	61.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Manual Integrations
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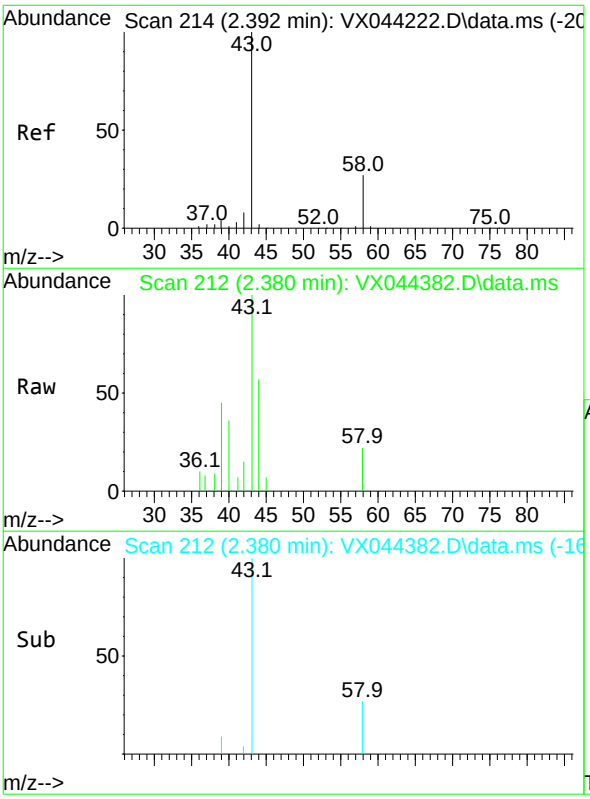
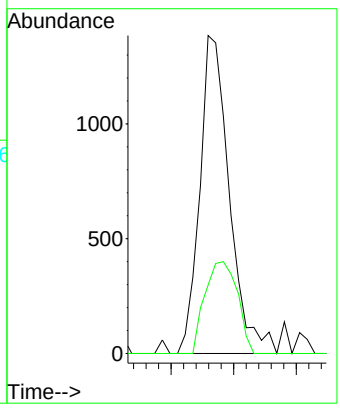
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

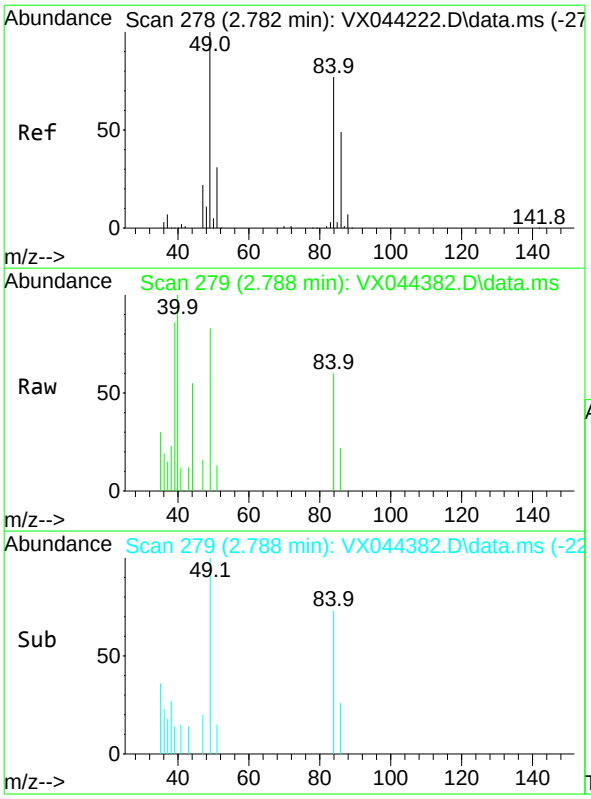


#16
Acetone
Concen: 2.644 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.012 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 43 Resp: 2274

Ion	Ratio	Lower	Upper
43	100		
58	21.5	21.6	32.4#

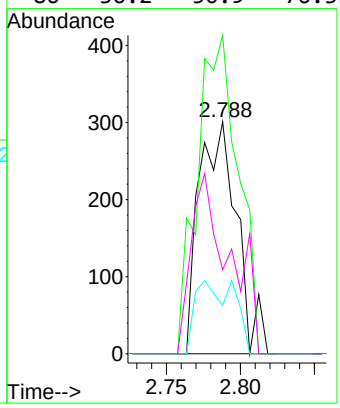




#20
Methylene Chloride
Concen: 0.331 ug/l
RT: 2.788 min Scan# 27
Delta R.T. 0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 84 Resp: 534

Ion	Ratio	Lower	Upper
84	100		
49	137.2	104.2	156.4
51	20.9	32.2	48.4#
86	36.2	50.9	76.3#



Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

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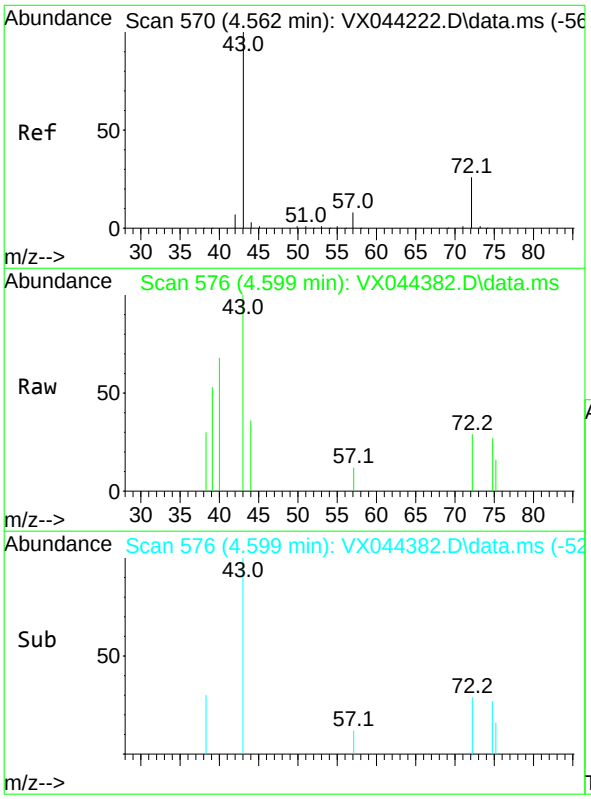
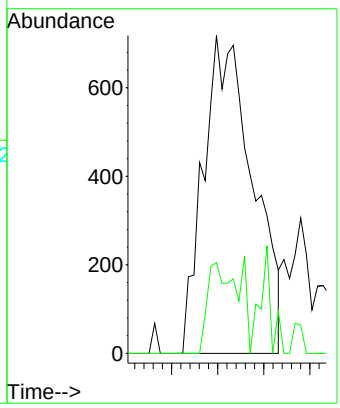
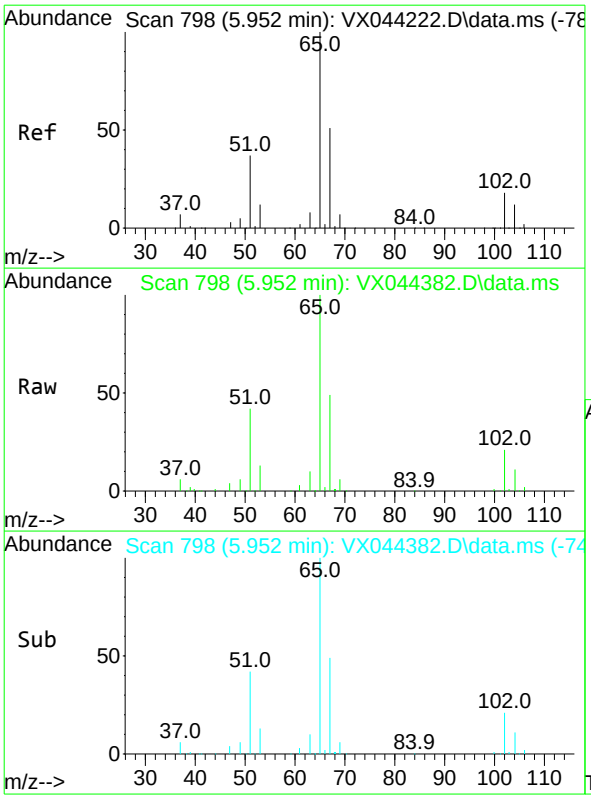


#25
2-Butanone
Concen: 2.189 ug/l m
RT: 4.599 min Scan# 576
Delta R.T. 0.036 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 43 Resp: 2677

Ion	Ratio	Lower	Upper
43	100		
72	28.6	20.2	30.4

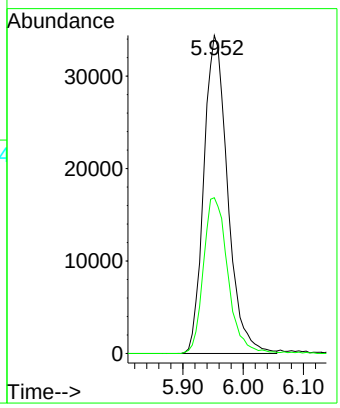




#33
1,2-Dichloroethane-d4
Concen: 44.781 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 65 Resp: 94483

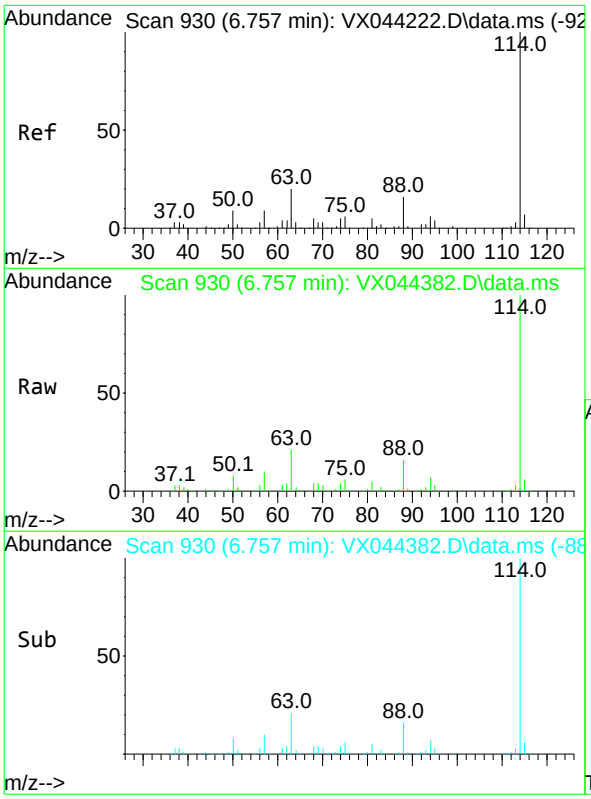
Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Manual Integrations APPROVED

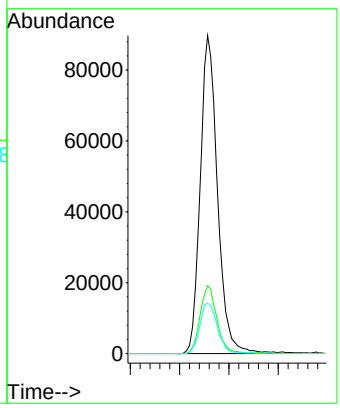
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

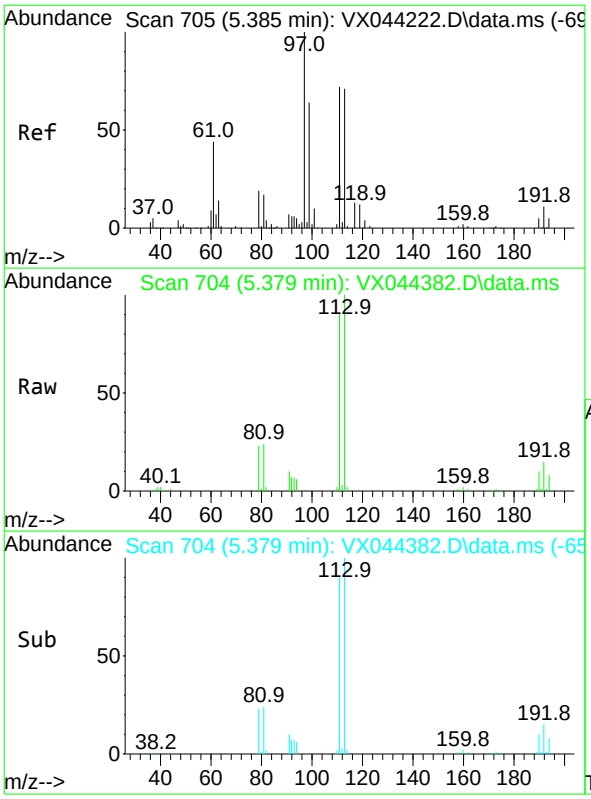


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:114 Resp: 217882

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	40.6
88	15.9	0.0	31.8

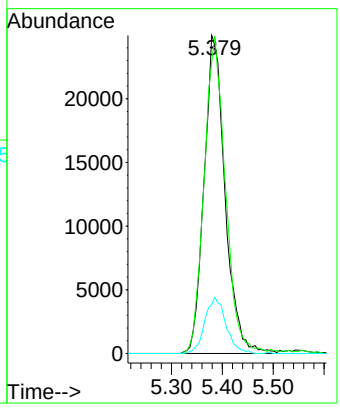




#35
Dibromofluoromethane
Concen: 47.458 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:113 Resp: 71615

Ion	Ratio	Lower	Upper
113	100		
111	101.2	80.4	120.6
192	17.7	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Manual Integrations
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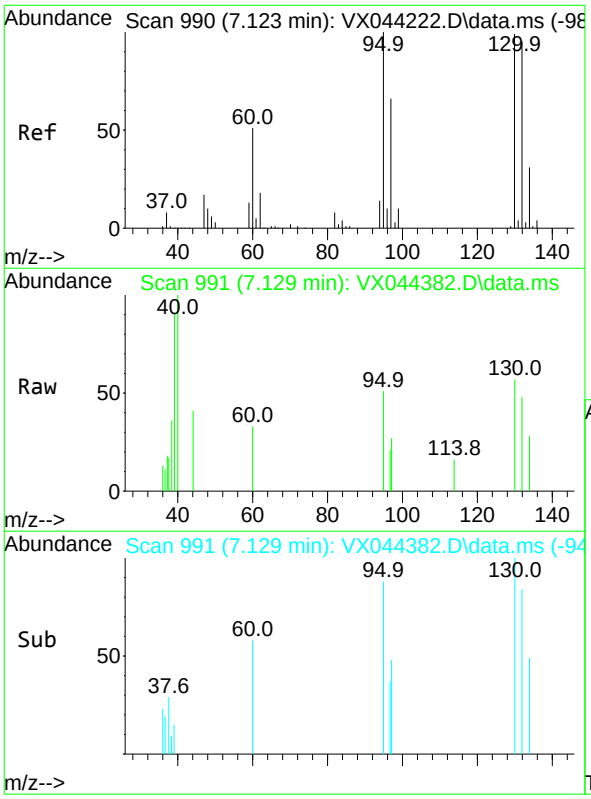
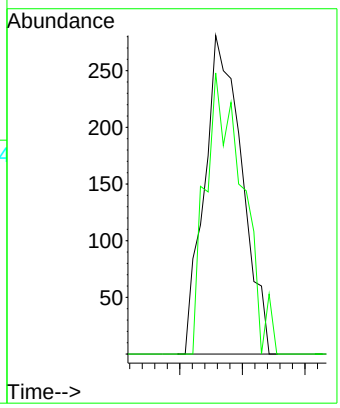
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

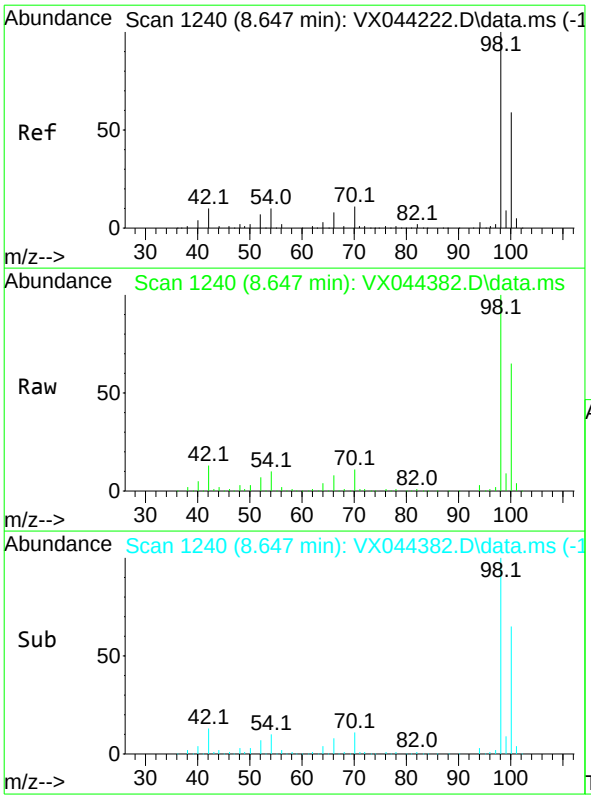


#44
Trichloroethene
Concen: 0.395 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:130 Resp: 584

Ion	Ratio	Lower	Upper
130	100		
95	88.3	0.0	201.4

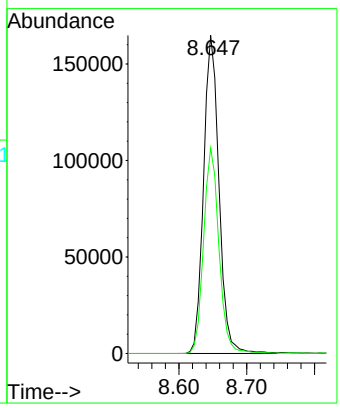




#50
Toluene-d8
Concen: 51.063 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 98 Resp: 259965

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.5	77.3



Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Manual Integrations
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Reviewed By :John Carlone 12/20/2024
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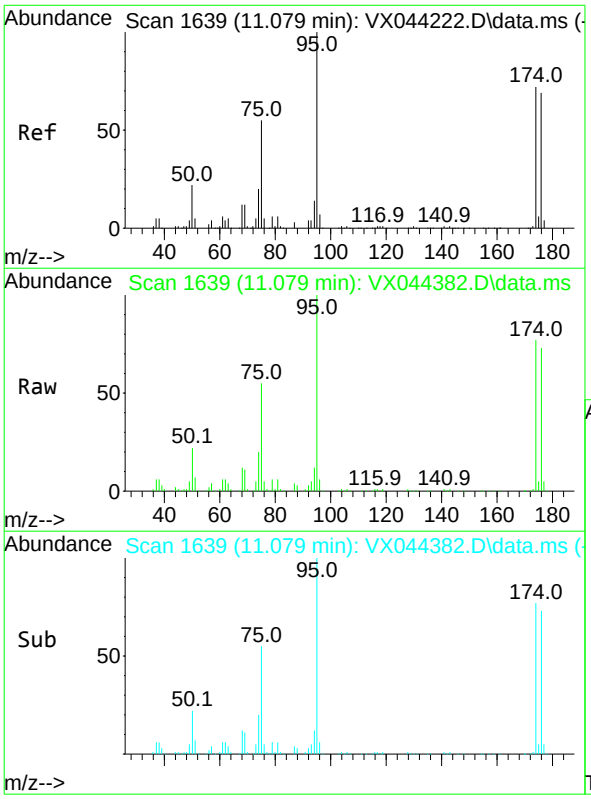
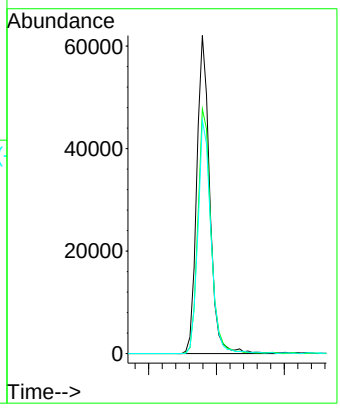
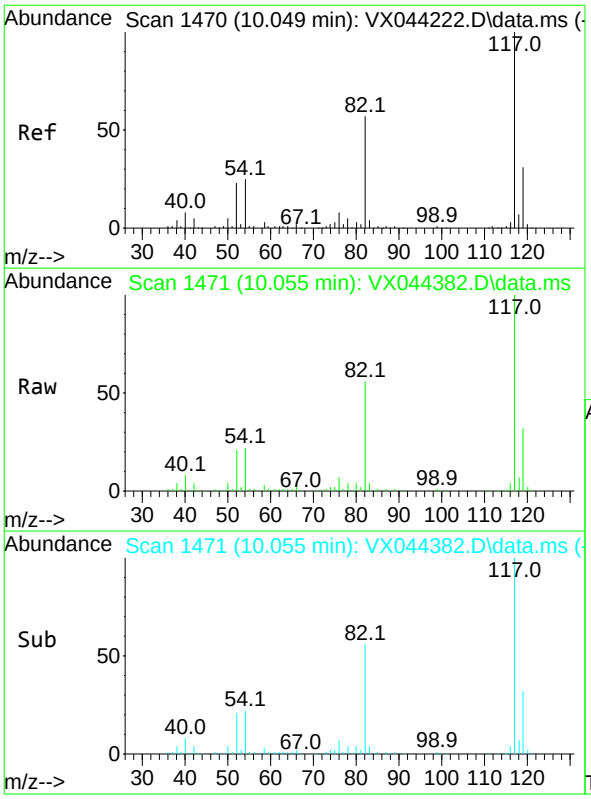


#62
4-Bromofluorobenzene
Concen: 46.232 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 95 Resp: 82244

Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	145.8
176	74.0	0.0	137.8

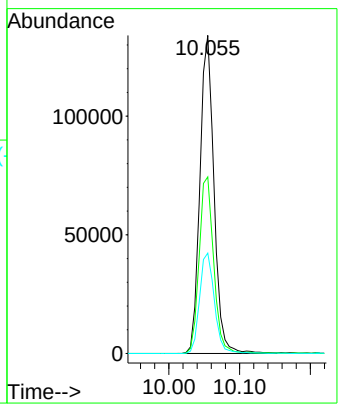




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:117 Resp: 185612

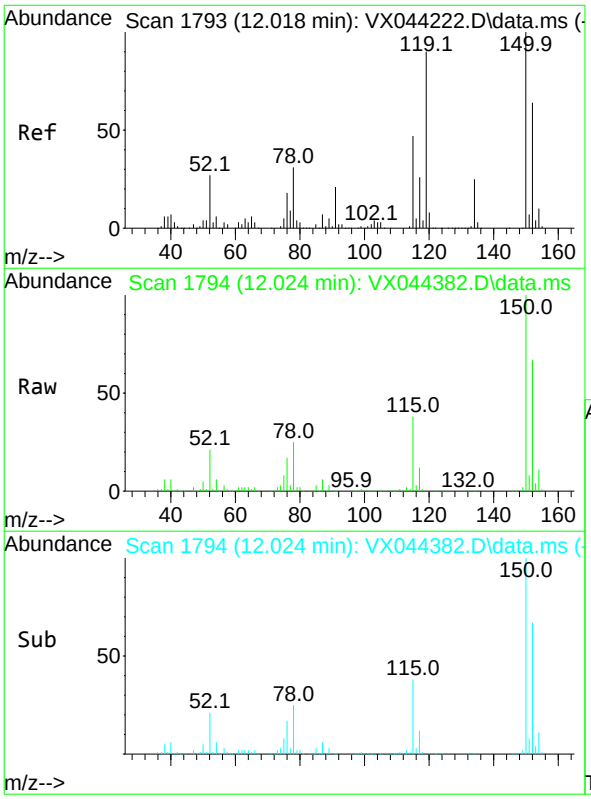
Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.8	68.8
119	31.6	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Manual Integrations
APPROVED

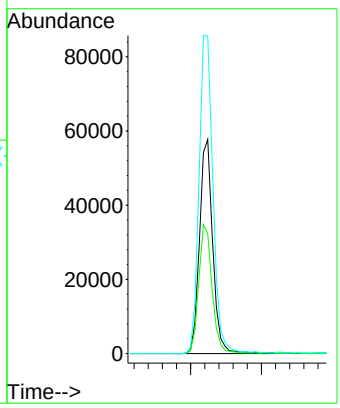
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:152 Resp: 75075

Ion	Ratio	Lower	Upper
152	100		
115	60.8	44.5	133.3
150	157.4	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TB	SDG No.:	P5281
Lab Sample ID:	P5281-09	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
VX044383.D	1		12/18/24 15:11	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	0.58	J	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	1.50	J	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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.45	J	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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

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Report of Analysis

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Lab Sample ID:	P5281-09	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
VX044383.D	1		12/18/24 15:11	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.7		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		80 - 119		93%	SPK: 50
2037-26-5	Toluene-d8	51.8		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	117000	5.544				
540-36-3	1,4-Difluorobenzene	209000	6.757				
3114-55-4	Chlorobenzene-d5	182000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71000	12.024				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	12/13/24
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	12/13/24
Client Sample ID:	TB	SDG No.:	P5281
Lab Sample ID:	P5281-09	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
VX044383.D	1		12/18/24 15:11	VX121824

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\VX121824\
Data File : VX044383.D
Acq On : 18 Dec 2024 15:11
Operator : JC/MD
Sample : P5281-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: Dec 19 00:47:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

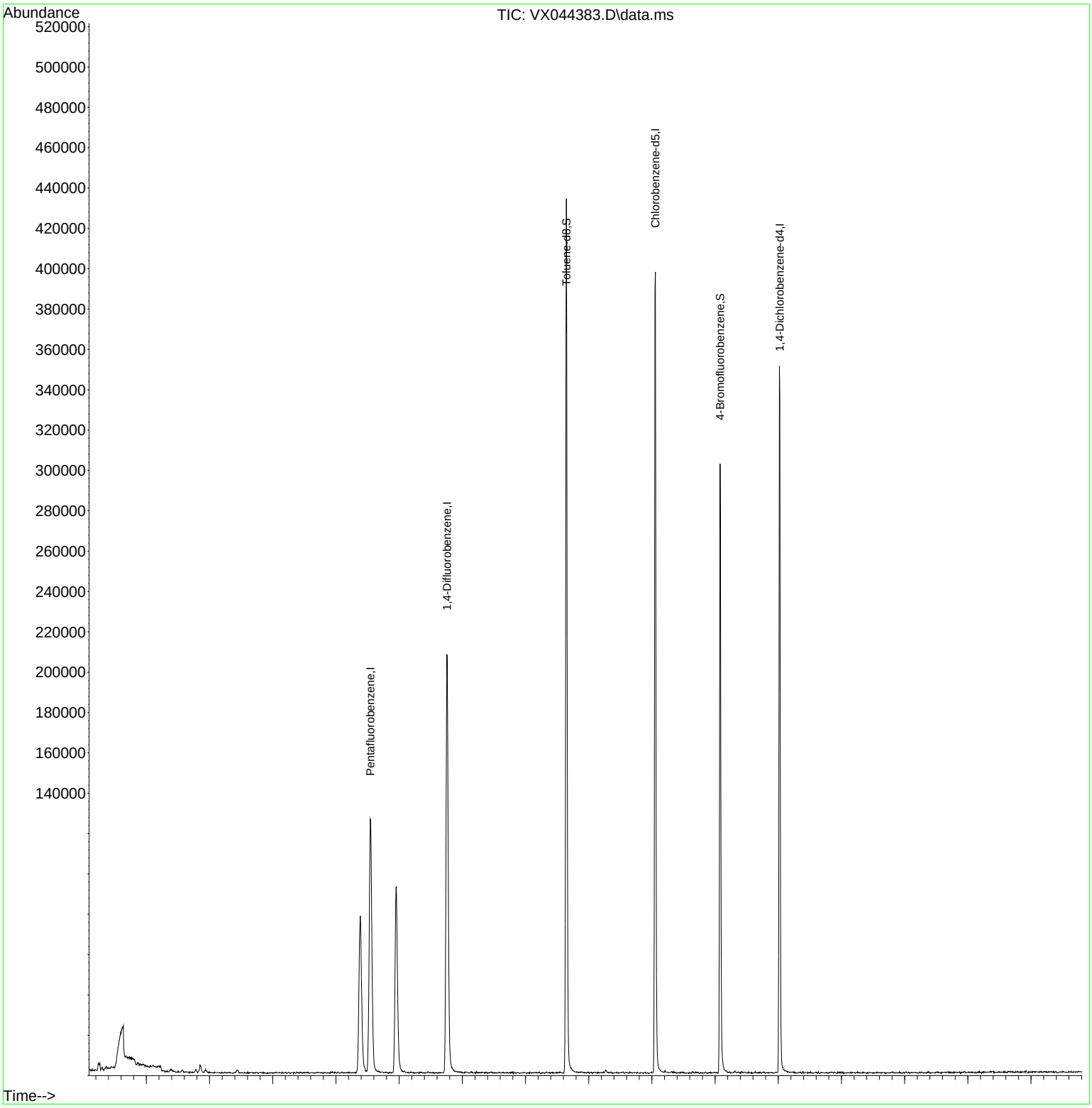
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	116899	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	209253	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	182054	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	70980	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89547	43.690	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.380%			
35) Dibromofluoromethane	5.385	113	67271	46.417	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.840%			
50) Toluene-d8	8.647	98	253284	51.803	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.600%			
62) 4-Bromofluorobenzene	11.079	95	77412	45.310	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.620%			
Target Compounds						Qvalue
3) Chloromethane	1.300	50	997	0.577	ug/l	97
16) Acetone	2.386	43	1276	1.527	ug/l	94
20) Methylene Chloride	2.788	84	708	0.451	ug/l #	75

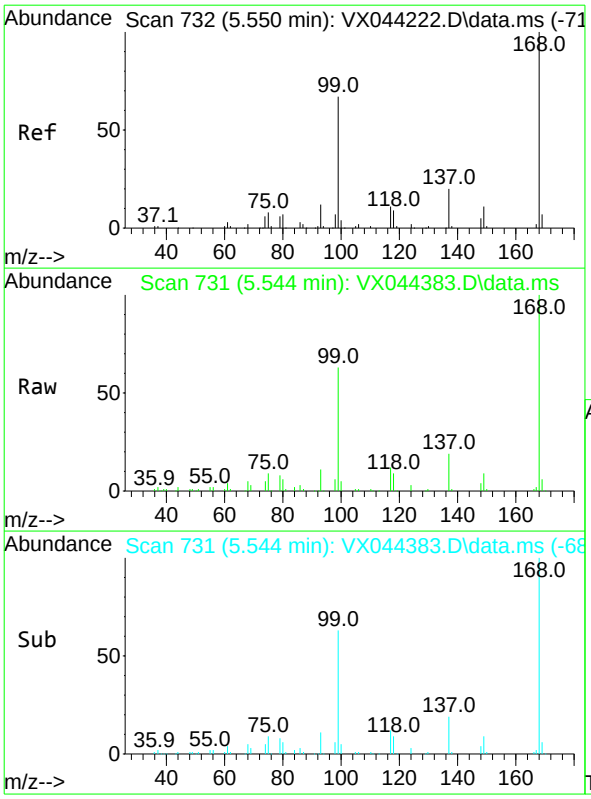
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044383.D
Acq On : 18 Dec 2024 15:11
Operator : JC/MD
Sample : P5281-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB

Quant Time: Dec 19 00:47:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



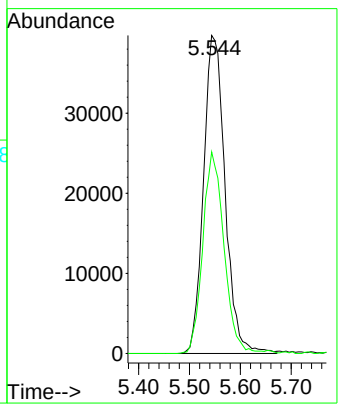


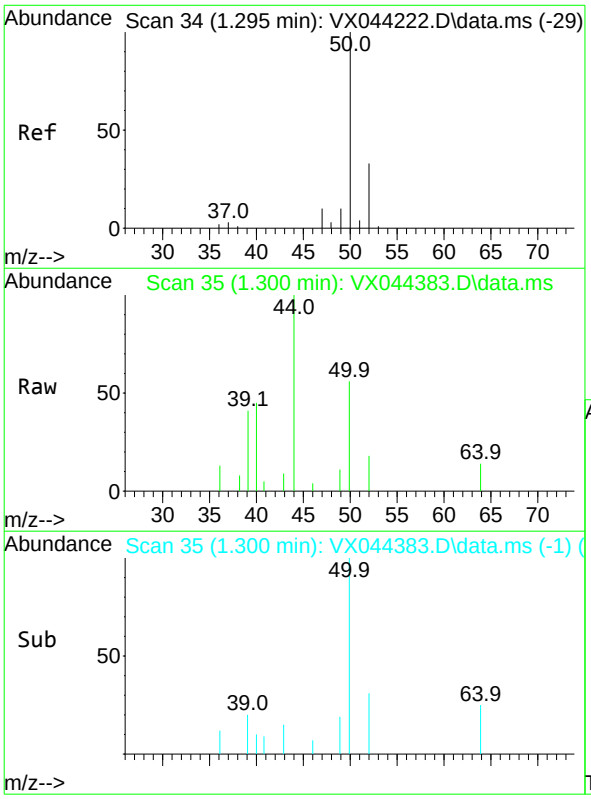
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:168 Resp: 116899

Ion	Ratio	Lower	Upper
168	100		
99	63.4	53.4	80.0

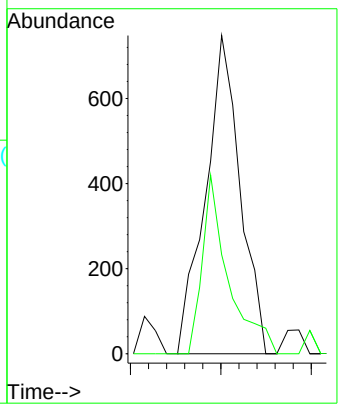


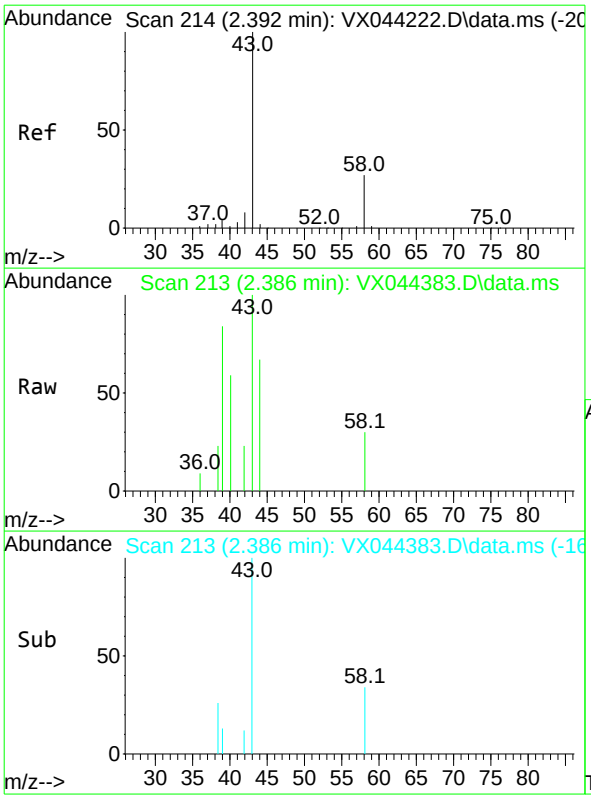


#3
Chloromethane
Concen: 0.577 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Tgt Ion: 50 Resp: 997

Ion	Ratio	Lower	Upper
50	100		
52	31.1	26.5	39.7



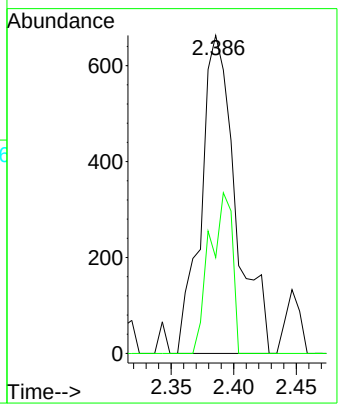


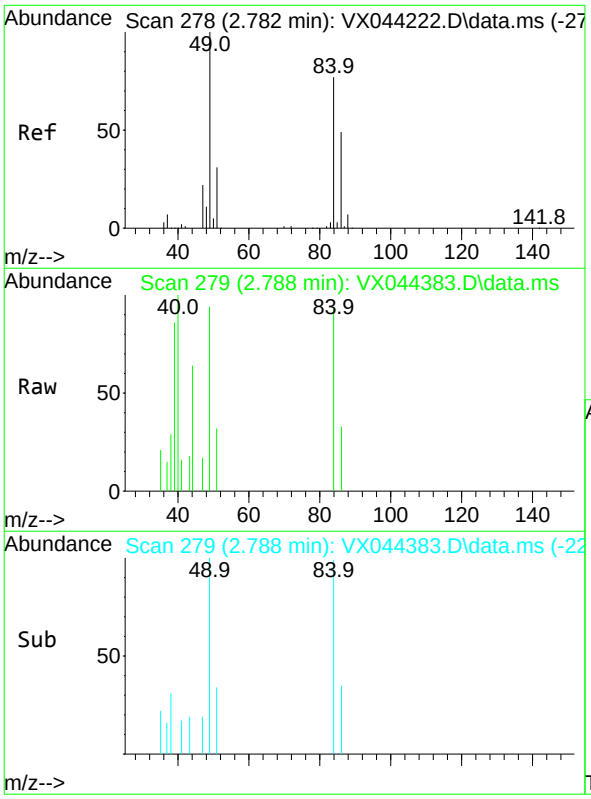
#16
Acetone
Concen: 1.527 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 43 Resp: 1276

Ion	Ratio	Lower	Upper
43	100		
58	30.2	21.6	32.4

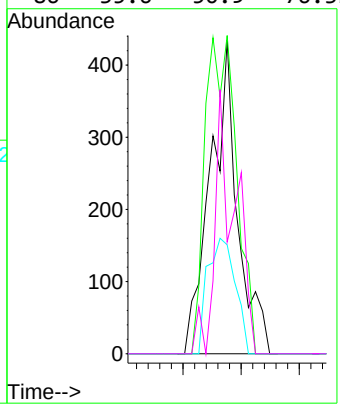


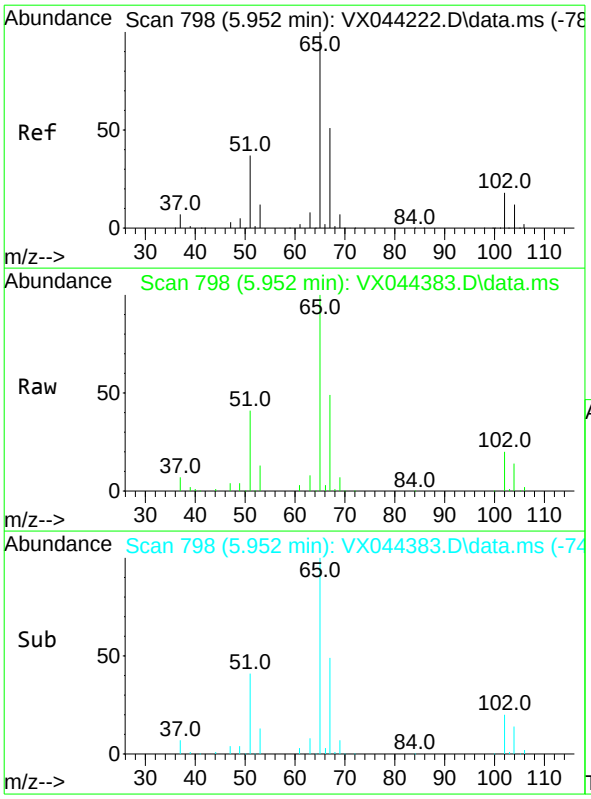


#20
Methylene Chloride
Concen: 0.451 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Tgt Ion: 84 Resp: 708

Ion	Ratio	Lower	Upper
84	100		
49	101.4	104.2	156.4#
51	34.7	32.2	48.4
86	35.6	50.9	76.3#



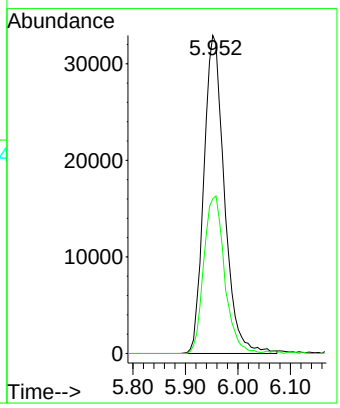


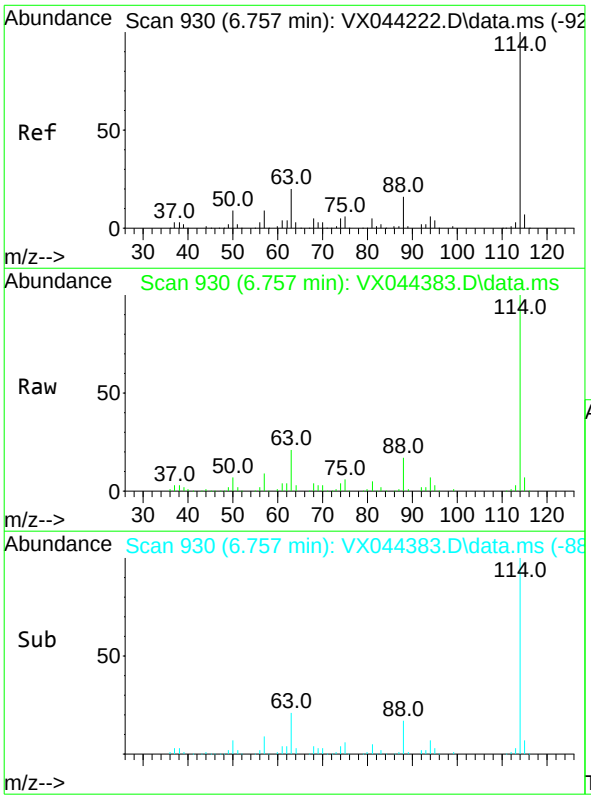
#33
1,2-Dichloroethane-d4
Concen: 43.690 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 65 Resp: 89547

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	101.6

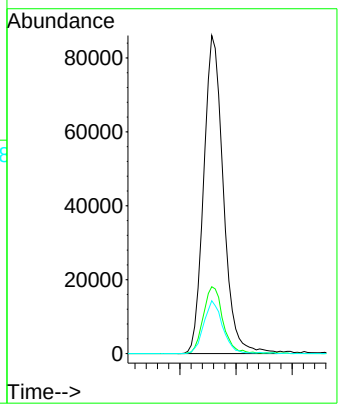


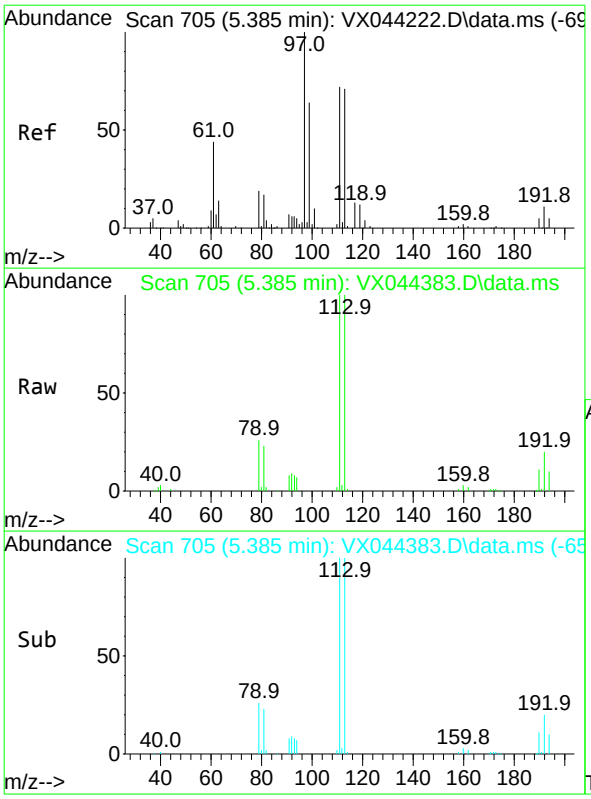


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Tgt Ion:114 Resp: 209253

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.6
88	16.6	0.0	31.8



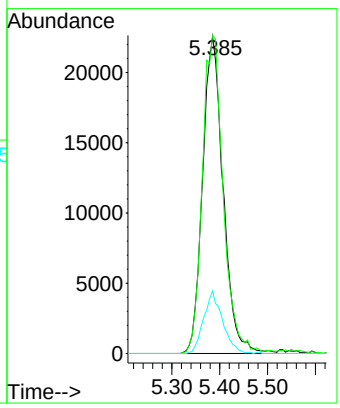


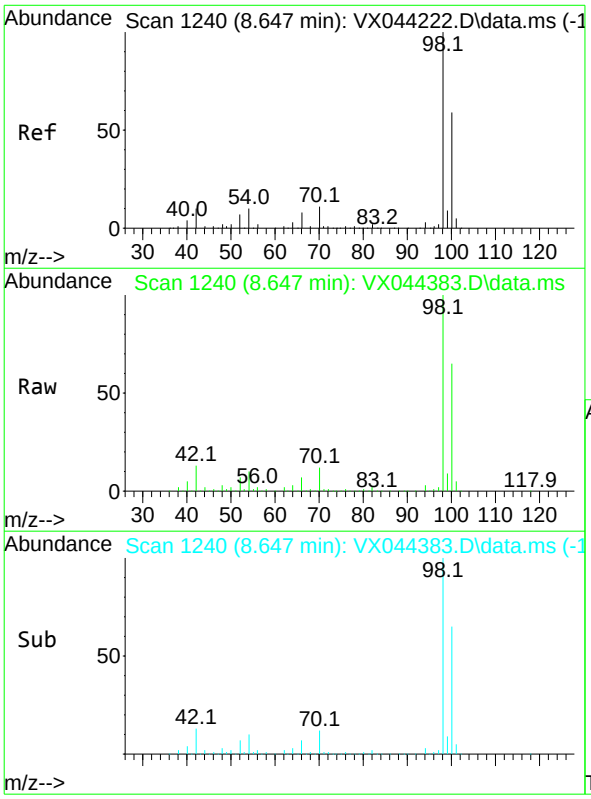
#35
Dibromofluoromethane
Concen: 46.417 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:113 Resp: 67271

Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.4	120.6
192	18.1	13.3	19.9

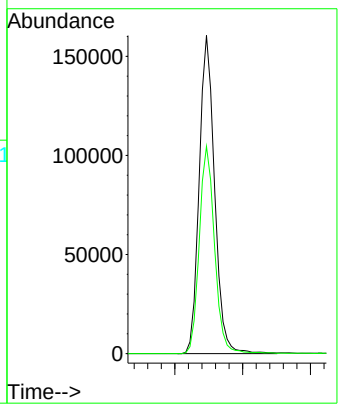


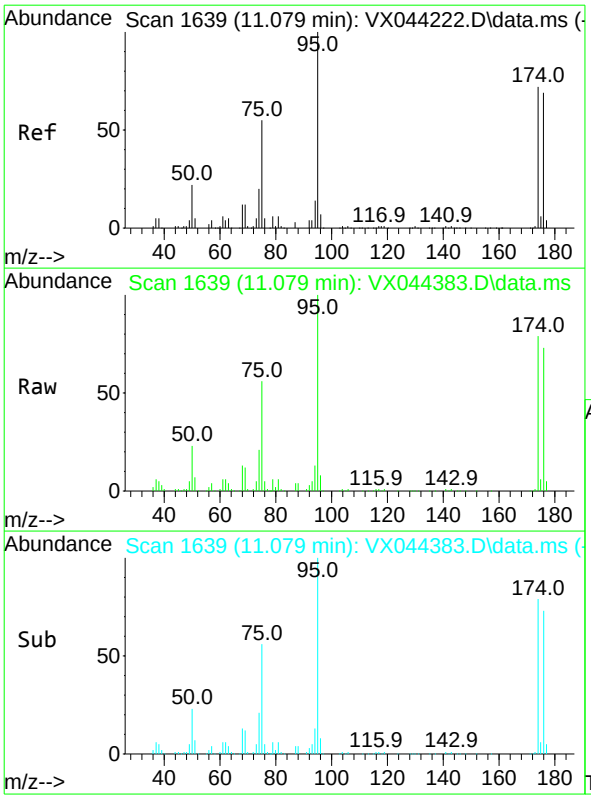


#50
Toluene-d8
Concen: 51.803 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Tgt Ion: 98 Resp: 253284

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.5	77.3



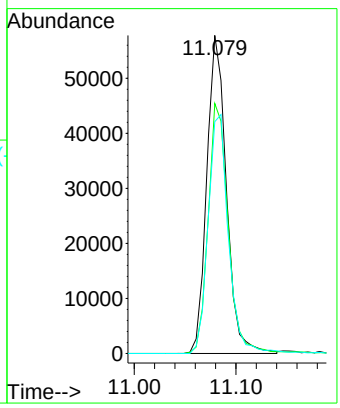


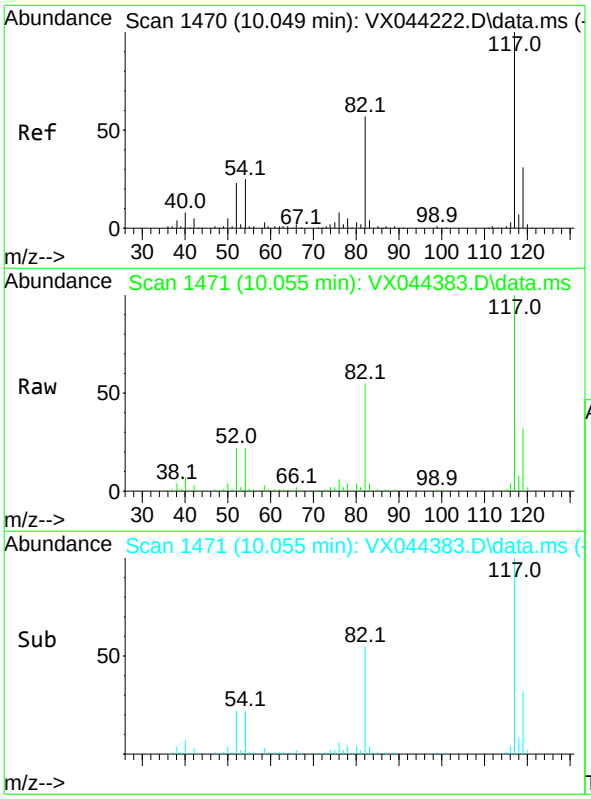
#62
4-Bromofluorobenzene
Concen: 45.310 ug/l
RT: 11.079 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion: 95 Resp: 77412

Ion	Ratio	Lower	Upper
95	100		
174	80.6	0.0	145.8
176	78.1	0.0	137.8

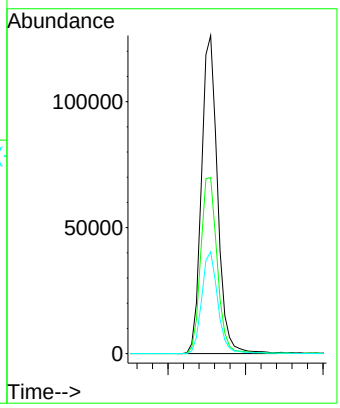


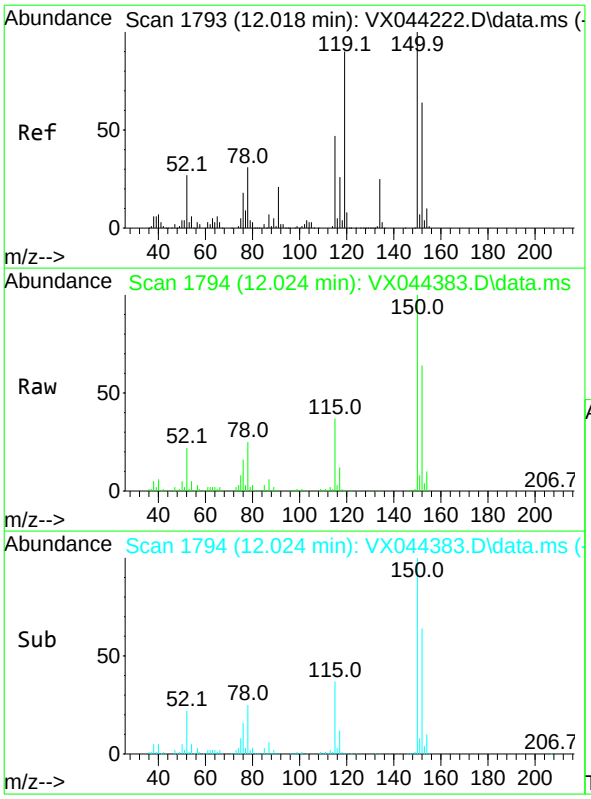


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Tgt Ion:117 Resp: 182054

Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.8	68.8
119	32.0	25.0	37.4



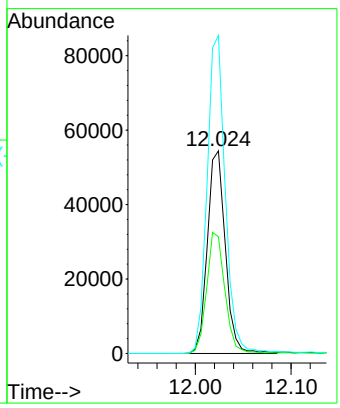


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044383.D
Acq: 18 Dec 2024 15:11

Instrument :
MSVOA_X
ClientSampleId :
TB

Tgt Ion:152 Resp: 70980

Ion	Ratio	Lower	Upper
152	100		
115	61.3	44.5	133.3
150	159.2	0.0	353.8



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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00

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

LAB FILE ID: RRF001 = VX044219.D RRF005 = VX044220.D RRF020 = VX044221.D
RRF050 = VX044222.D RRF100 = VX044223.D RRF150 = VX044224.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.877	0.749	0.721	0.788	0.745	0.759	0.773	7.2
Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.8
Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.3
Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.3
Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.2
Trichlorofluoromethane	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.8
1,1,2-Trichlorotrifluoroethane	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.8
1,1-Dichloroethene	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.7
Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	5
Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	20
Methyl tert-butyl Ether	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.3
Methyl Acetate	0.965	0.889	0.883	0.953	0.888	0.951	0.922	4.2
Methylene Chloride	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.1
trans-1,2-Dichloroethene	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.4
1,1-Dichloroethane	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.1
Cyclohexane		0.931	0.963	0.977	0.922	0.938	0.946	2.4
2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.1
Carbon Tetrachloride	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.8
cis-1,2-Dichloroethene	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.1
Bromochloromethane	0.578	0.577	0.576	0.592	0.556	0.568	0.575	2.1
Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.4
1,1,1-Trichloroethane	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.1
Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.5
Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.9
1,2-Dichloroethane	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.4
Trichloroethene	0.356	0.325	0.325	0.349	0.337	0.342	0.339	3.8
1,2-Dichloropropane	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.8
Bromodichloromethane	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.9
4-Methyl-2-Pentanone	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.4
Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	4

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00

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

LAB FILE ID: RRF001 = VX044219.D RRF005 = VX044220.D RRF020 = VX044221.D
RRF050 = VX044222.D RRF100 = VX044223.D RRF150 = VX044224.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.3
cis-1,3-Dichloropropene	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.6
1,1,2-Trichloroethane	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.8
2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.8
Dibromochloromethane	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.2
1,2-Dibromoethane	0.303	0.322	0.344	0.369	0.364	0.370	0.345	8.1
Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	6
Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.3
Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.4
m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.5
o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.6
Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.7
Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28
Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.2
1,1,2,2-Tetrachloroethane	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.9
1,3-Dichlorobenzene	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.3
1,4-Dichlorobenzene	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.4
1,2-Dichlorobenzene	1.745	1.666	1.668	1.726	1.654	1.643	1.684	2.5
1,2-Dibromo-3-Chloropropane	0.222	0.226	0.241	0.273	0.279	0.306	0.258	13
1,2,4-Trichlorobenzene	0.770	0.827	0.891	0.978	1.013	1.058	0.923	12.2
1,2,3-Trichlorobenzene	0.854	0.885	0.984	1.019	1.055	1.077	0.979	9.3
1,2-Dichloroethane-d4		0.934	0.778	0.921	0.862	0.888	0.877	7.1
Dibromofluoromethane		0.353	0.298	0.367	0.360	0.354	0.346	8
Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.3
4-Bromofluorobenzene		0.390	0.351	0.442	0.432	0.426	0.408	9.2

* 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_X

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024
Response Via : Initial Calibration

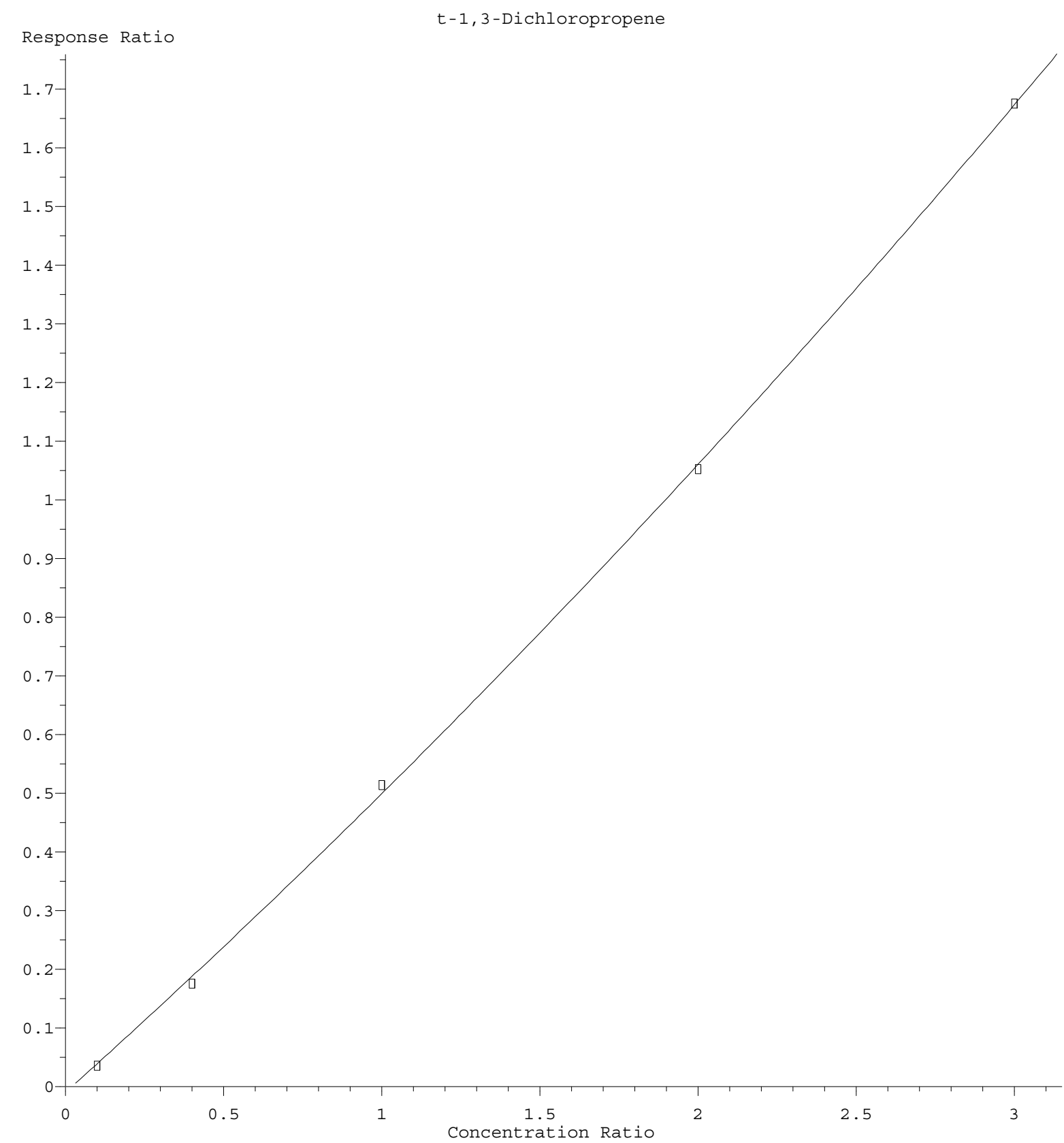
Calibration Files
1 =VX044219.D 5 =VX044220.D 20 =VX044221.D 50 =VX044222.D 100 =VX044223.D 150 =VX044224.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.877	0.749	0.721	0.788	0.745	0.759	0.773	7.19
3)	P	Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.83
4)	C	Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.31#
5)	T	Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.26
6)	T	Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.21
7)	T	Trichlorofluor...	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.80
8)	T	Diethyl Ether	0.582	0.516	0.481	0.513	0.477	0.520	0.515	7.30
9)	T	1,1,2-Trichlor...	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.76
10)	T	Methyl Iodide		0.793	0.796	0.847	0.782	0.803	0.804	3.13
11)	T	Tert butyl alc...		0.103	0.111	0.120	0.133	0.151	0.124	15.38
12)	CM	1,1-Dichloroet...	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.74#
13)	T	Acrolein		0.179	0.163	0.185	0.174	0.193	0.179	6.28
14)	T	Allyl chloride	0.899	0.895	0.878	1.010	0.940	0.980	0.933	5.63
15)	T	Acrylonitrile	0.319	0.333	0.332	0.358	0.343	0.367	0.342	5.25
16)	T	Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	4.99
17)	T	Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	19.98
18)	T	Methyl Acetate	0.965	0.889	0.883	0.953	0.888	0.951	0.922	4.17
19)	T	Methyl tert-bu...	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.28
20)	T	Methylene Chlo...	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.12
21)	T	trans-1,2-Dich...	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.37
22)	T	Diisopropyl ether	2.040	2.114	2.092	2.172	2.070	2.123	2.102	2.17
23)	T	Vinyl Acetate	1.238	1.571	1.732	1.912	1.842	1.958	1.709	15.75
24)	P	1,1-Dichloroet...	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.10
25)	T	2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.08
26)	T	2,2-Dichloropr...	0.782	0.896	0.956	1.045	0.992	1.039	0.952	10.50
27)	T	cis-1,2-Dichlo...	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.11
28)	T	Bromochloromet...	0.578	0.577	0.576	0.592	0.556	0.568	0.575	2.07
29)	T	Tetrahydrofuran	0.293	0.348	0.321	0.337	0.317	0.340	0.326	6.17
30)	C	Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.39#
31)	T	Cyclohexane		0.931	0.963	0.977	0.922	0.938	0.946	2.44
32)	T	1,1,1-Trichlor...	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.06
33)	S	1,2-Dichloroet...		0.934	0.778	0.921	0.862	0.888	0.877	7.09
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.353	0.298	0.367	0.360	0.354	0.346	7.95
36)	T	1,1-Dichloropr...	0.489	0.442	0.422	0.444	0.445	0.444	0.448	4.92
37)	T	Ethyl Acetate	0.536	0.512	0.551	0.581	0.565	0.574	0.553	4.68
38)	T	Carbon Tetrach...	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.77
39)	T	Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.52
40)	TM	Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.93
41)	T	Methacrylonitrile	0.285	0.293	0.281	0.302	0.298	0.305	0.294	3.21
42)	TM	1,2-Dichloroet...	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.37
43)	T	Isopropyl Acetate	0.736	0.854	0.835	0.916	0.908	0.941	0.865	8.62
44)	TM	Trichloroethene	0.356	0.325	0.324	0.349	0.337	0.342	0.339	3.79
45)	C	1,2-Dichloropr...	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.81#
46)	T	Dibromomethane	0.247	0.267	0.259	0.286	0.276	0.281	0.269	5.53
47)	T	Bromodichlorom...	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.95
48)	T	Methyl methacr...	0.427	0.370	0.399	0.444	0.431	0.447	0.420	7.03
49)	T	1,4-Dioxane	0.005	0.007	0.007	0.008	0.008	0.008	0.007	15.81
50)	S	Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.27
51)	T	4-Methyl-2-Pen...	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.37
52)	CM	Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	3.96#
53)	T	t-1,3-Dichloro...	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.32
54)	T	cis-1,3-Dichlo...	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.59
55)	T	1,1,2-Trichlor...	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.79

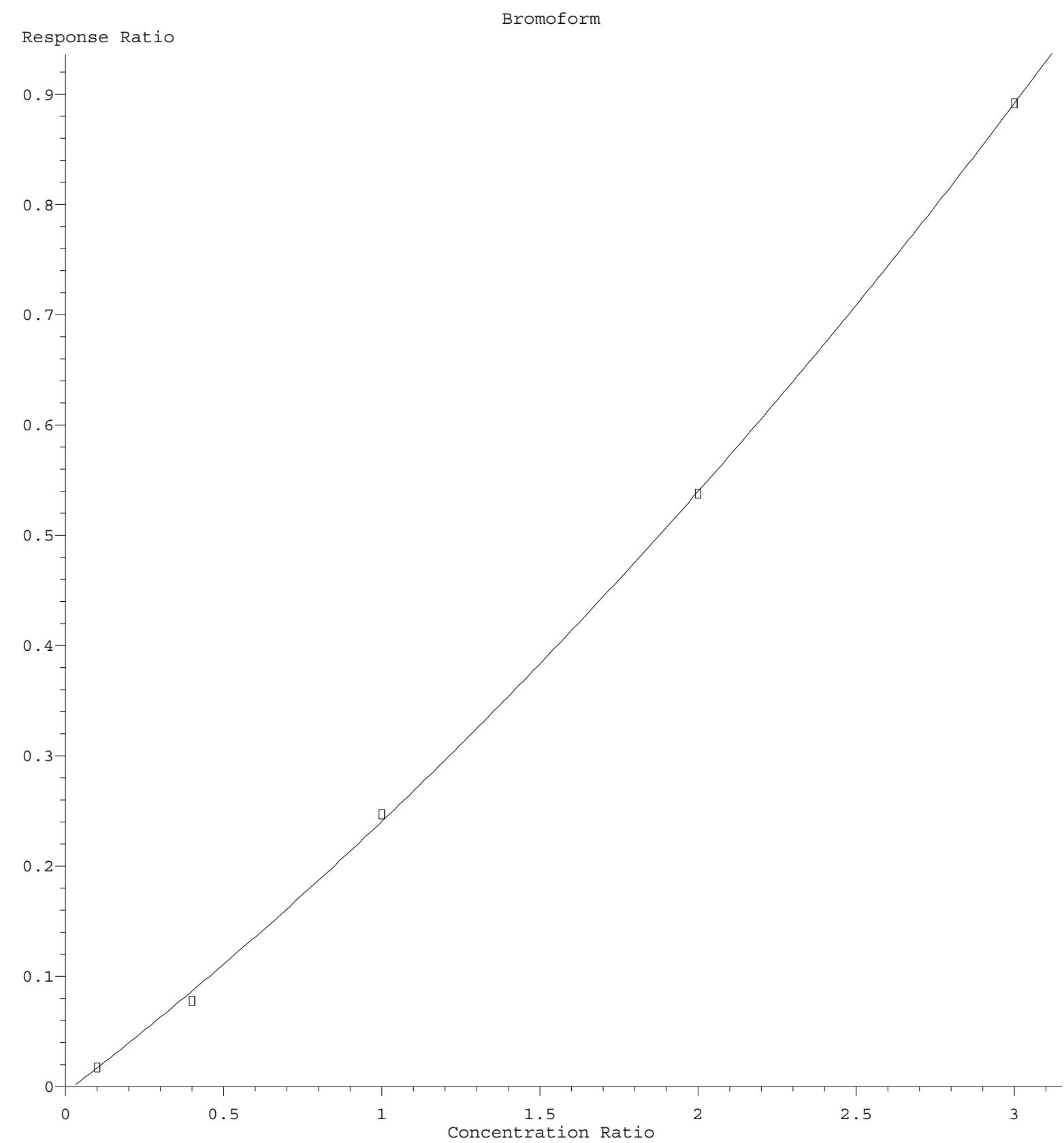
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X121124W.M

56)	T	Ethyl methacry...	0.491	0.458	0.517	0.577	0.575	0.593	0.535	10.23
57)	T	1,3-Dichloropr...	0.578	0.593	0.585	0.613	0.583	0.590	0.590	2.09
58)	T	2-Chloroethyl ...	0.222	0.268	0.256	0.293	0.285	0.296	0.270	10.47
59)	T	2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.82
60)	T	Dibromochlorom...	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.17
61)	T	1,2-Dibromoethane	0.303	0.322	0.344	0.369	0.364	0.370	0.345	8.06
62)	S	4-Bromofluorob...		0.390	0.351	0.442	0.432	0.426	0.408	9.23
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	5.96
65)	PM	Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.27
66)	T	1,1,1,2-Tetrac...	0.301	0.305	0.334	0.375	0.368	0.383	0.344	10.47
67)	C	Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.42#
68)	T	m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.50
69)	T	o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.64
70)	T	Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.70
71)	P	Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28.02
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.25
74)	T	N-amyl acetate	1.435	1.620	1.773	1.916	1.901	1.967	1.769	11.64
75)	P	1,1,2,2-Tetrac...	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.93
76)	T	1,2,3-Trichlor...	1.272	1.075	1.113	1.124	1.059	1.055	1.116	7.30
77)	T	Bromobenzene	1.009	0.934	0.890	0.942	0.899	0.895	0.928	4.87
78)	T	n-propylbenzene	3.739	4.263	4.319	4.502	4.283	4.277	4.231	6.06
79)	T	2-Chlorotoluene	2.940	2.847	2.707	2.771	2.582	2.569	2.736	5.36
80)	T	1,3,5-Trimethy...	3.066	3.222	3.224	3.308	3.097	3.128	3.174	2.90
81)	T	trans-1,4-Dich...		0.236	0.300	0.369	0.402	0.430	0.347	22.67
82)	T	4-Chlorotoluene	2.964	3.051	3.013	3.114	3.011	3.026	3.030	1.65
83)	T	tert-Butylbenzene	3.170	3.077	3.105	3.259	3.106	3.106	3.137	2.14
84)	T	1,2,4-Trimethy...	2.699	3.254	3.207	3.290	3.148	3.105	3.117	6.92
85)	T	sec-Butylbenzene	3.679	3.748	3.840	3.986	3.804	3.793	3.808	2.70
86)	T	p-Isopropyltol...	2.949	3.061	3.254	3.347	3.197	3.211	3.170	4.49
87)	T	1,3-Dichlorobe...	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.35
88)	T	1,4-Dichlorobe...	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.39
89)	T	n-Butylbenzene	2.249	2.387	2.659	2.844	2.889	2.964	2.665	10.90
90)	T	Hexachloroethane	0.358	0.396	0.406	0.507	0.542	0.567	0.463	18.85
91)	T	1,2-Dichlorobe...	1.745	1.666	1.668	1.726	1.654	1.643	1.683	2.46
92)	T	1,2-Dibromo-3-...	0.222	0.226	0.241	0.273	0.279	0.306	0.258	13.01
93)	T	1,2,4-Trichlor...	0.770	0.827	0.891	0.978	1.013	1.058	0.923	12.16
94)	T	Hexachlorobuta...	0.390	0.349	0.367	0.369	0.371	0.381	0.371	3.75
95)	T	Naphthalene	2.925	3.346	3.629	3.835	3.866	4.015	3.603	11.24
96)	T	1,2,3-Trichlor...	0.854	0.885	0.984	1.019	1.055	1.077	0.979	9.30

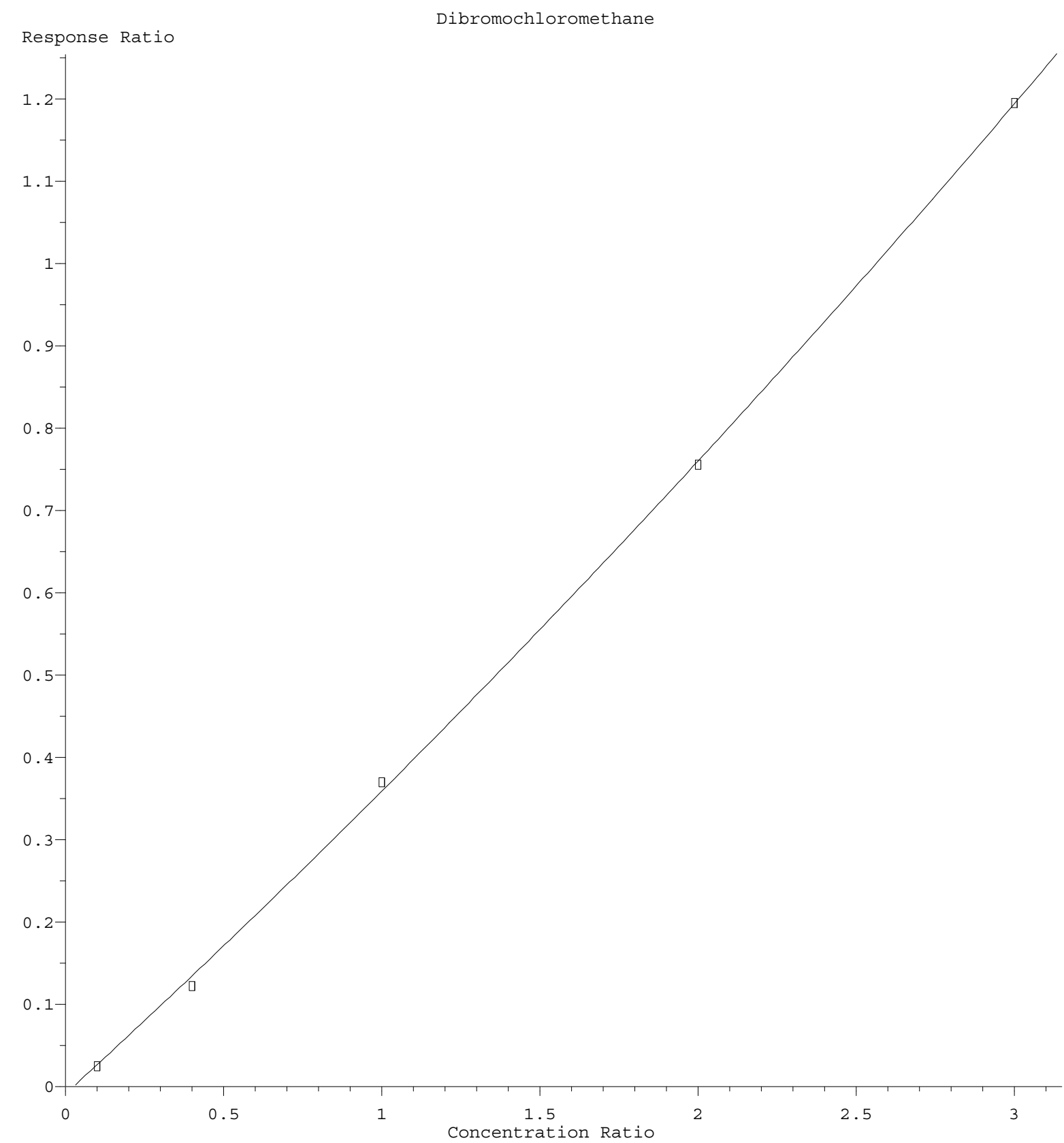
(#) = Out of Range



R = 2.599e-002 A*A + 4.830e-001 A - 9.631e-003
Coef of Det (r^2) = 0.999780 Curve Fit: Quadratic
Method: P:\281VOCMSZ\vupsrv\HPCHEM1\MSVOA X\Method\82X121124W.M
Calibration Table Last Updated: Thu Dec 12 04:28:14 2024



R = 2.648e-002 A*A + 2.195e-001 A - 5.414e-003
Coef of Det (r^2) = 0.999777 Curve Fit: Quadratic
Method: \\chromsrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Calibration Table Last Updated: Thu Dec 12 04:28:14 2024



R = 1.660e-002 A*A + 3.511e-001 A - 8.656e-003
Coef of Det (r^2) = 0.999705 Curve Fit: Quadratic
Method: \\chrsrv\HPCHEM1\MSVOA X\Method\82X121124W.M
Calibration Table Last Updated: Thu Dec 12 04:28:14 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.543	168	141947	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	253574	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	213862	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88334	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	2491	1.135	ug/l		98
3) Chloromethane	1.300	50	2109	1.005	ug/l		98
4) Vinyl Chloride	1.373	62	2285	1.045	ug/l	#	85
6) Chloroethane	1.672	64	1316m	0.967	ug/l		
7) Trichlorofluoromethane	1.867	101	4491	1.049	ug/l		96
8) Diethyl Ether	2.129	74	1651	1.130	ug/l		78
9) 1,1,2-Trichlorotrifluo...	2.318	101	1796	1.037	ug/l		95
12) 1,1-Dichloroethene	2.306	96	1454	0.914	ug/l		90
14) Allyl chloride	2.660	41	2551	0.963	ug/l	#	91
15) Acrylonitrile	3.068	53	4528	4.660	ug/l		98
16) Acetone	2.385	43	5096	5.022	ug/l		97
17) Carbon Disulfide	2.501	76	2387	0.789	ug/l		99
18) Methyl Acetate	2.702	43	2739	1.047	ug/l	#	86
19) Methyl tert-butyl Ether	3.117	73	5832	0.939	ug/l	#	91
20) Methylene Chloride	2.776	84	1928	1.012	ug/l	#	74
21) trans-1,2-Dichloroethene	3.080	96	1703	1.007	ug/l	#	79
22) Diisopropyl ether	3.763	45	5792	0.971	ug/l	#	83
23) Vinyl Acetate	3.733	43	17578	3.623	ug/l		100
24) 1,1-Dichloroethane	3.605	63	3040	0.914	ug/l		96
25) 2-Butanone	4.586	43	6380	4.423	ug/l		96
26) 2,2-Dichloropropane	4.464	77	2220	0.821	ug/l		85
27) cis-1,2-Dichloroethene	4.489	96	2296	1.069	ug/l		81
28) Bromochloromethane	4.909	49	1641	1.006	ug/l	#	72
29) Tetrahydrofuran	5.025	42	4158	4.491	ug/l	#	84
30) Chloroform	5.086	83	3943	1.055	ug/l		91
32) 1,1,1-Trichloroethane	5.379	97	2818	0.908	ug/l	#	48
36) 1,1-Dichloropropene	5.696	75	2479m	1.092	ug/l		
37) Ethyl Acetate	4.727	43	2718	0.969	ug/l	#	71
38) Carbon Tetrachloride	5.678	117	2454	1.004	ug/l	#	73
39) Methylcyclohexane	7.366	83	2606	0.960	ug/l		93
40) Benzene	6.037	78	6864	0.996	ug/l		92
41) Methacrylonitrile	4.946	41	1447m	0.971	ug/l		
42) 1,2-Dichloroethane	6.092	62	2810	0.990	ug/l		93
43) Isopropyl Acetate	6.354	43	3734	0.851	ug/l		98
44) Trichloroethene	7.122	130	1806	1.051	ug/l		71
45) 1,2-Dichloropropane	7.433	63	1865	1.059	ug/l	#	74

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
46) Dibromomethane	7.592	93	1251	0.916 ug/l		97
47) Bromodichloromethane	7.830	83	1926	0.816 ug/l	#	74
48) Methyl methacrylate	7.720	41	2168	1.018 ug/l	#	77
49) 1,4-Dioxane	7.702	88	492m	13.522 ug/l		
51) 4-Methyl-2-Pentanone	8.579	43	12824	4.547 ug/l		95
52) Toluene	8.720	92	4606	1.064 ug/l		92
53) t-1,3-Dichloropropene	8.988	75	1716	1.694 ug/l	#	78
54) cis-1,3-Dichloropropene	8.366	75	2048	0.797 ug/l	#	75
55) 1,1,2-Trichloroethane	9.159	97	1710	0.994 ug/l	#	83
56) Ethyl methacrylate	9.128	69	2490	0.917 ug/l	#	85
57) 1,3-Dichloropropane	9.317	76	2929	0.979 ug/l		94
58) 2-Chloroethyl Vinyl ether	8.244	63	5621	4.105 ug/l		96
59) 2-Hexanone	9.439	43	8199	4.017 ug/l		98
60) Dibromochloromethane	9.524	129	1289	1.953 ug/l		97
61) 1,2-Dibromoethane	9.610	107	1535	0.877 ug/l		95
64) Tetrachloroethene	9.274	164	1536	1.082 ug/l		86
65) Chlorobenzene	10.079	112	4835	1.055 ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.158	131	1288	0.875 ug/l	#	63
67) Ethyl Benzene	10.195	91	7924	1.001 ug/l	#	88
68) m/p-Xylenes	10.305	106	5583	1.922 ug/l		98
69) o-Xylene	10.640	106	2933	0.998 ug/l		96
70) Styrene	10.658	104	4306	0.914 ug/l		94
71) Bromoform	10.805	173	584	1.847 ug/l	#	72
73) Isopropylbenzene	10.963	105	6474	0.957 ug/l		100
74) N-amyl acetate	10.847	43	2536	0.811 ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.219	83	2491	1.061 ug/l		95
76) 1,2,3-Trichloropropane	11.244	75	2248m	1.121 ug/l		
77) Bromobenzene	11.201	156	1783	1.087 ug/l		91
78) n-propylbenzene	11.305	91	6606	0.884 ug/l		86
79) 2-Chlorotoluene	11.366	91	5194	1.075 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	5417	0.966 ug/l		98
82) 4-Chlorotoluene	11.457	91	5236	0.978 ug/l		98
83) tert-Butylbenzene	11.713	119	5601	1.011 ug/l		91
84) 1,2,4-Trimethylbenzene	11.756	105	4769	0.866 ug/l		95
85) sec-Butylbenzene	11.890	105	6500	0.966 ug/l		99
86) p-Isopropyltoluene	12.012	119	5210	0.930 ug/l		93
87) 1,3-Dichlorobenzene	11.975	146	2684	0.937 ug/l		94
88) 1,4-Dichlorobenzene	12.042	146	3200m	1.087 ug/l		
89) n-Butylbenzene	12.335	91	3973	0.844 ug/l		94
90) Hexachloroethane	12.536	117	632	0.773 ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	3082	1.036 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	392	0.860 ug/l		70
93) 1,2,4-Trichlorobenzene	13.591	180	1361	0.835 ug/l		92
94) Hexachlorobutadiene	13.725	225	689	1.051 ug/l		96
95) Naphthalene	13.780	128	5167	0.812 ug/l	#	94
96) 1,2,3-Trichlorobenzene	13.963	180	1509	0.873 ug/l		95

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

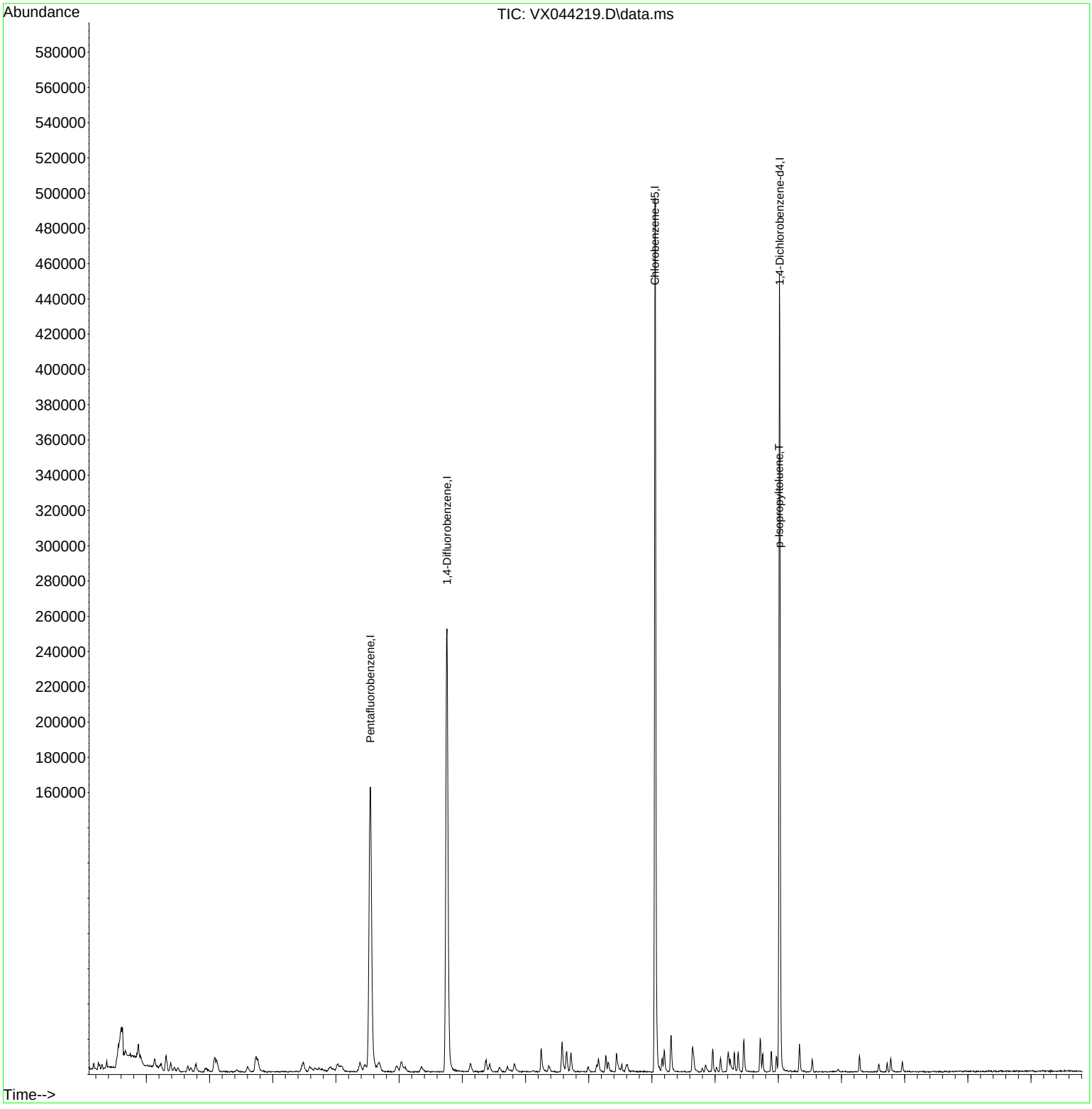
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

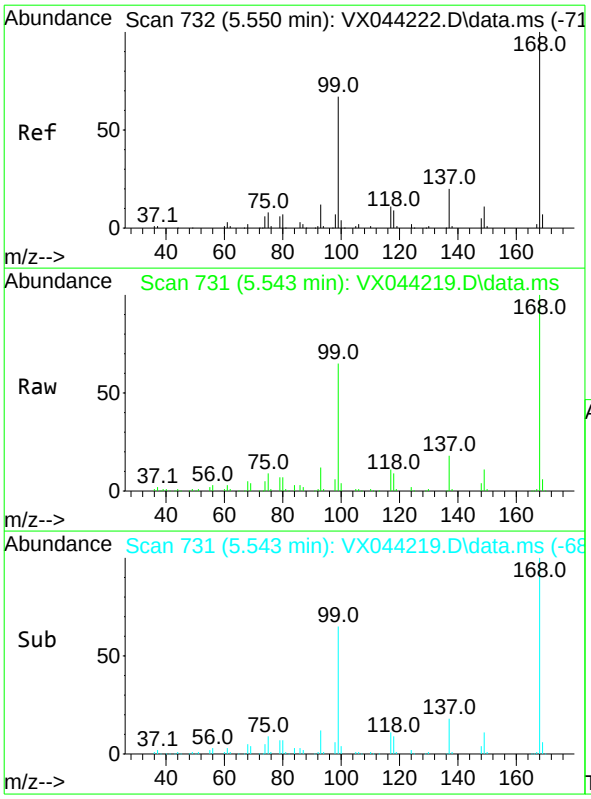
Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

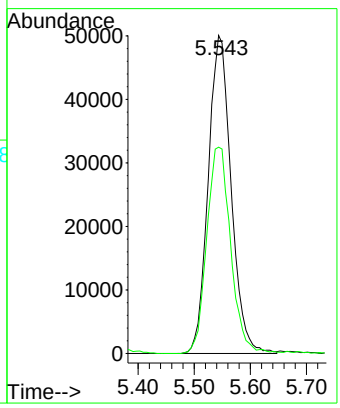




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 73
Delta R.T. -0.007 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:168 Resp: 141947

Ion	Ratio	Lower	Upper
168	100		
99	64.9	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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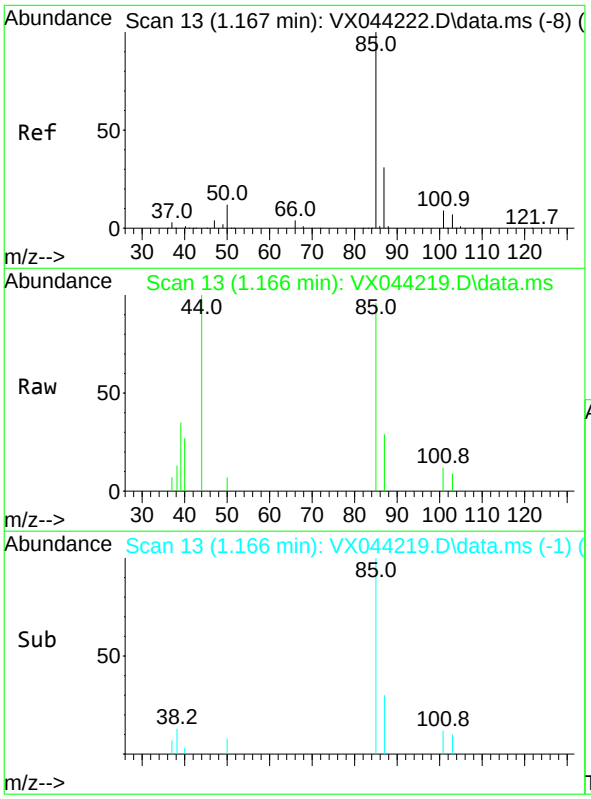
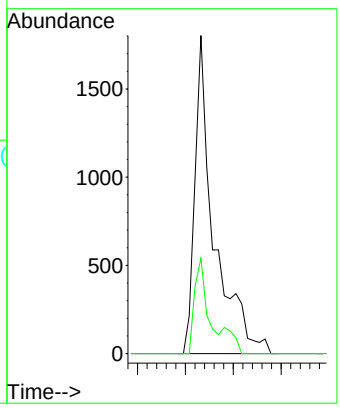
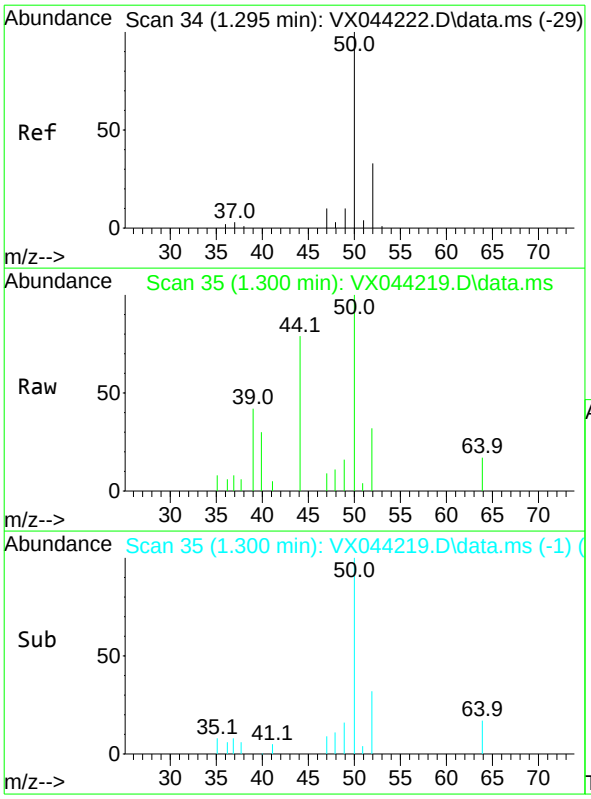


#2
Dichlorodifluoromethane
Concen: 1.135 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 85 Resp: 2491

Ion	Ratio	Lower	Upper
85	100		
87	30.0	15.4	46.4

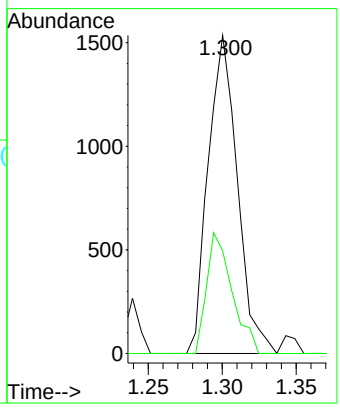




#3
Chloromethane
Concen: 1.005 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 50 Resp: 2109

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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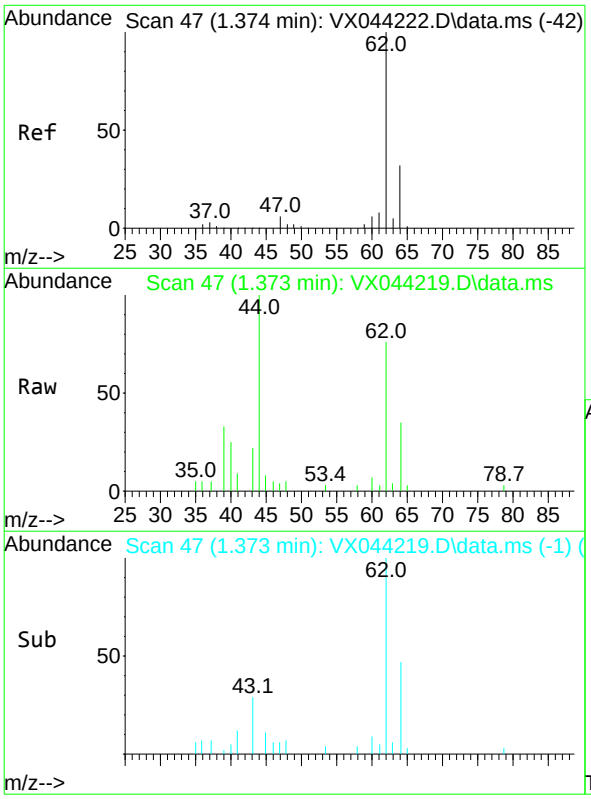
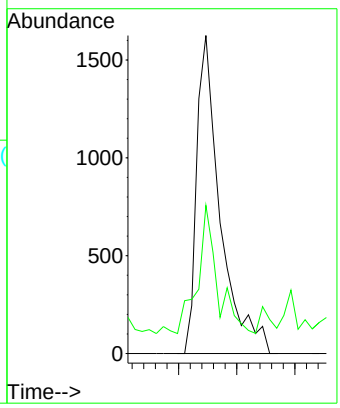
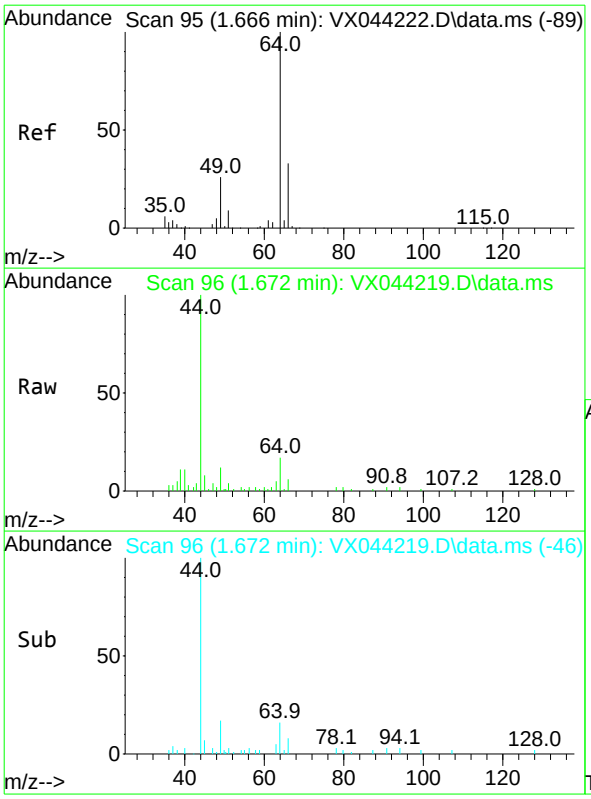


#4
Vinyl Chloride
Concen: 1.045 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2285

Ion	Ratio	Lower	Upper
62	100		
64	40.3	25.7	38.5#

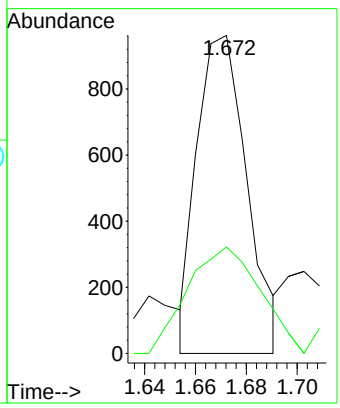




#6
Chloroethane
Concen: 0.967 ug/l m
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 64 Resp: 1316

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.6	39.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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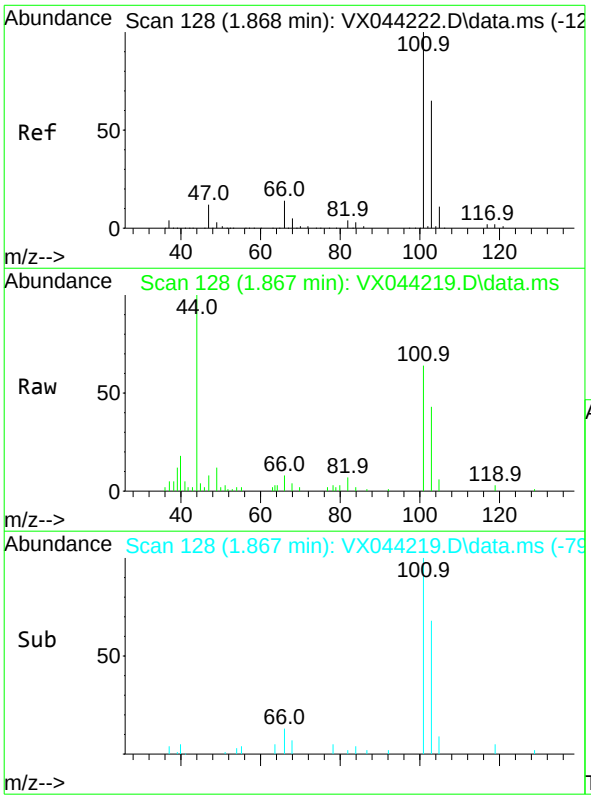
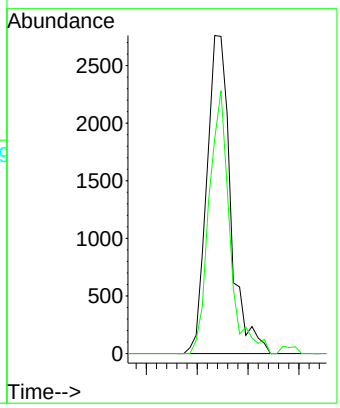
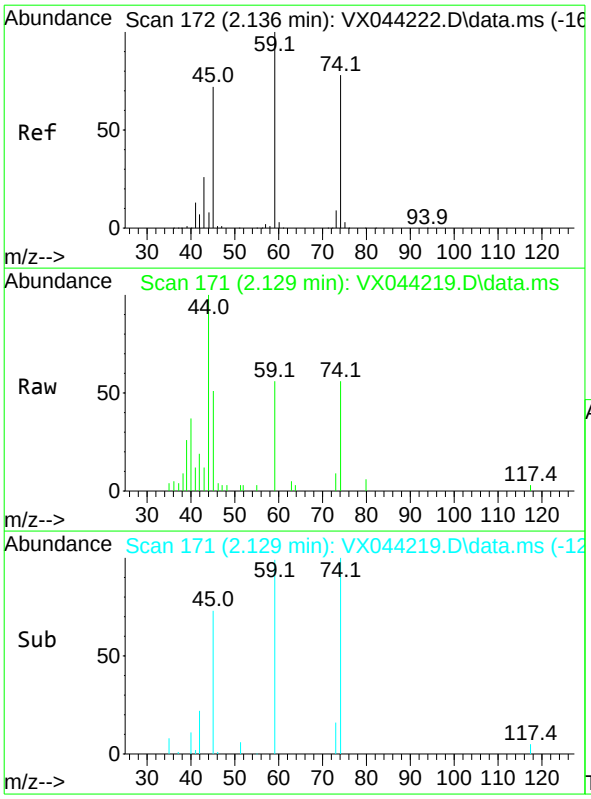


#7
Trichlorofluoromethane
Concen: 1.049 ug/l
RT: 1.867 min Scan# 128
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:101 Resp: 4491

Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.8	77.8





#8
Diethyl Ether
Concen: 1.130 ug/l
RT: 2.129 min Scan# 17
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 74 Resp: 1651

Ion	Ratio	Lower	Upper
74	100		
45	118.0	48.4	145.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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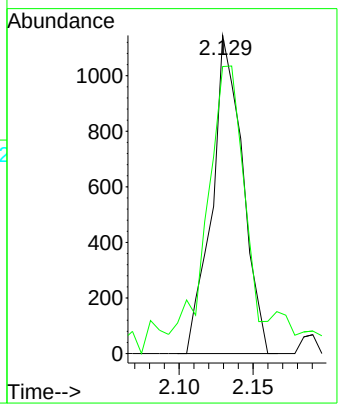
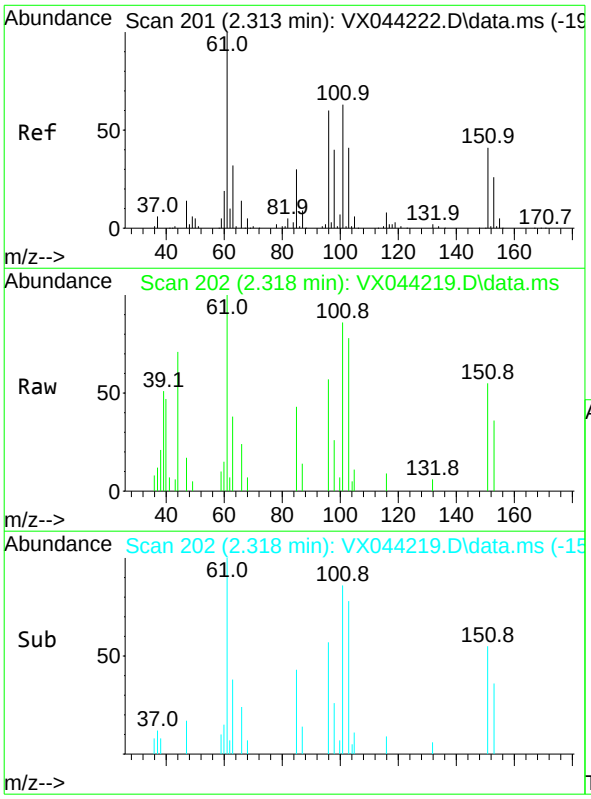
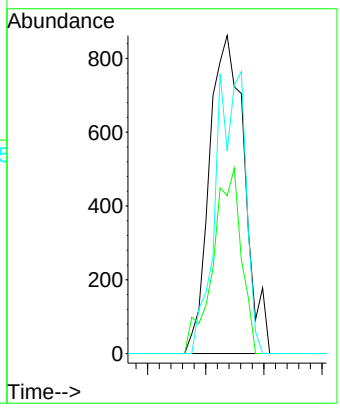


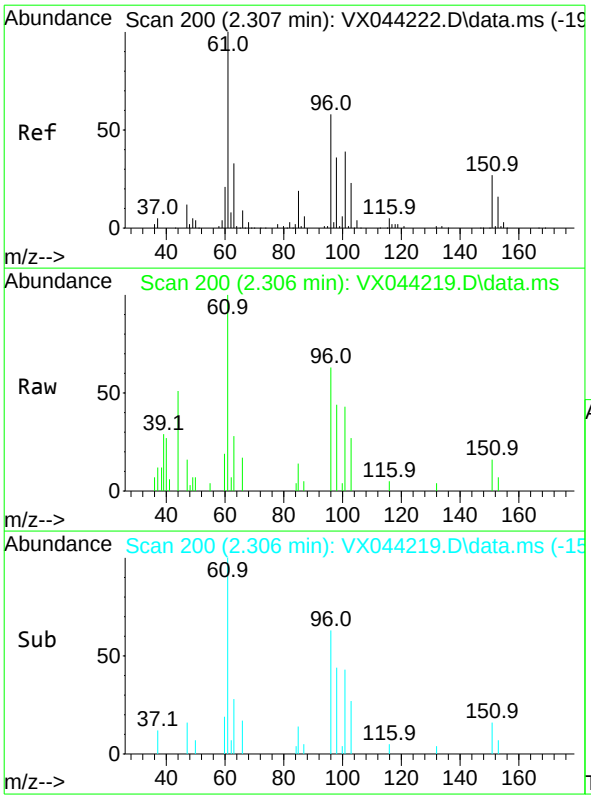


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.037 ug/l
RT: 2.318 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:101 Resp: 1796

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.5	57.7
151	76.1	55.8	83.6

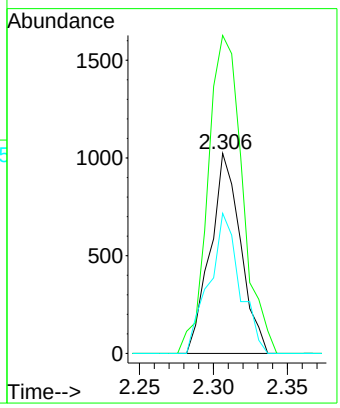




#12
1,1-Dichloroethene
Concen: 0.914 ug/l
RT: 2.306 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 96 Resp: 1454

Ion	Ratio	Lower	Upper
96	100		
61	158.9	138.0	207.0
98	70.0	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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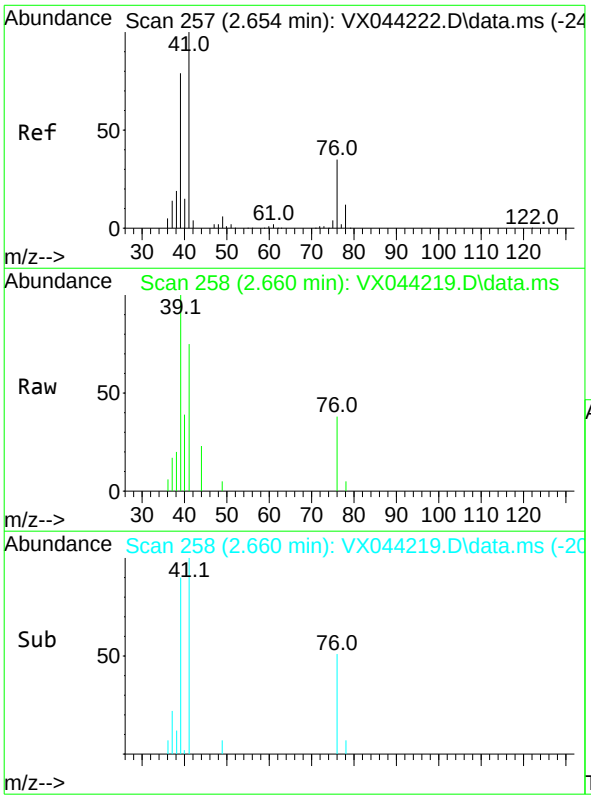
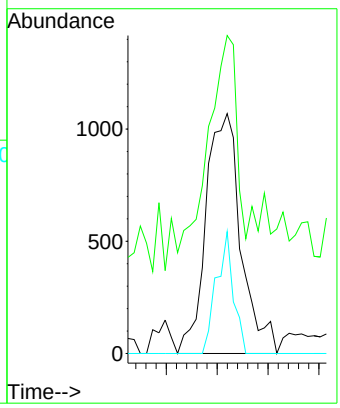
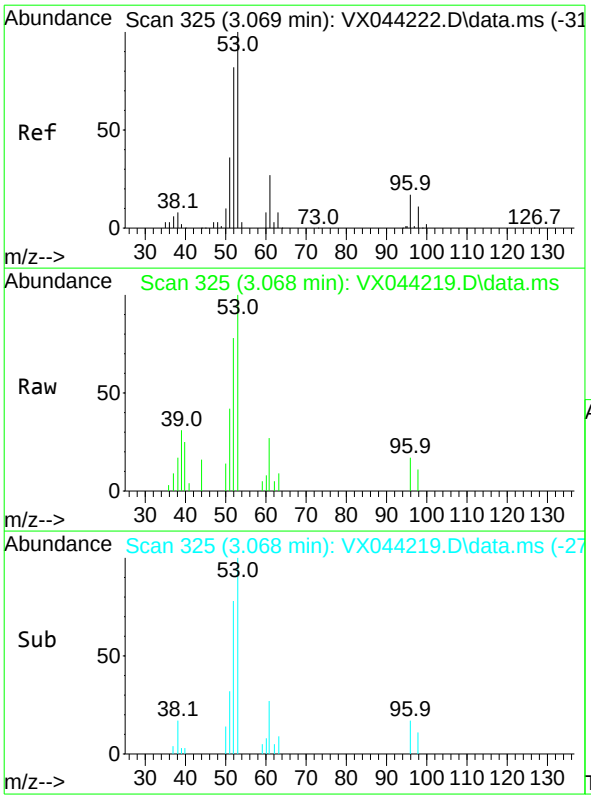


#14
Allyl chloride
Concen: 0.963 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 2551

Ion	Ratio	Lower	Upper
41	100		
39	72.6	61.9	92.9
76	24.6	27.4	41.2#

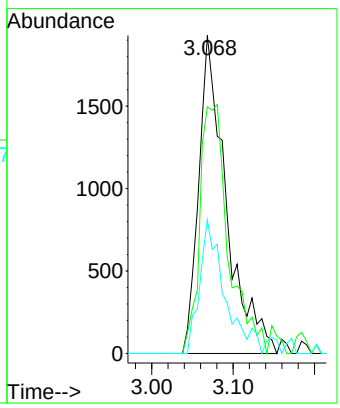




#15
Acrylonitrile
Concen: 4.660 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 53 Resp: 4528

Ion	Ratio	Lower	Upper
53	100		
52	81.4	67.4	101.0
51	38.3	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 12/12/2024
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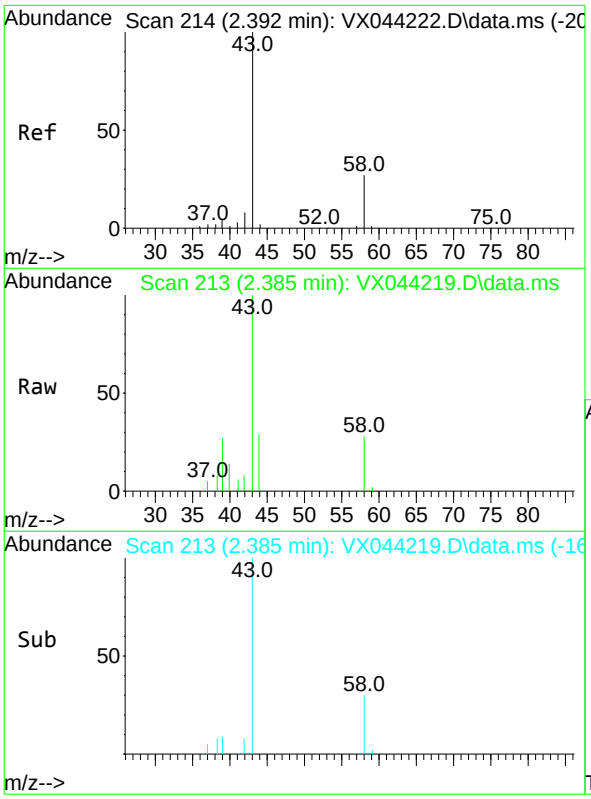
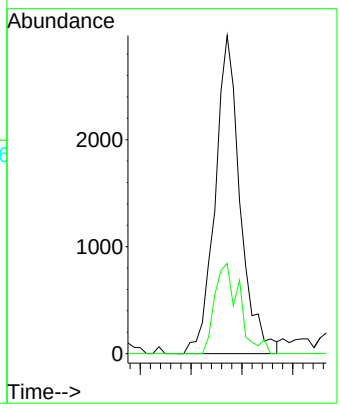
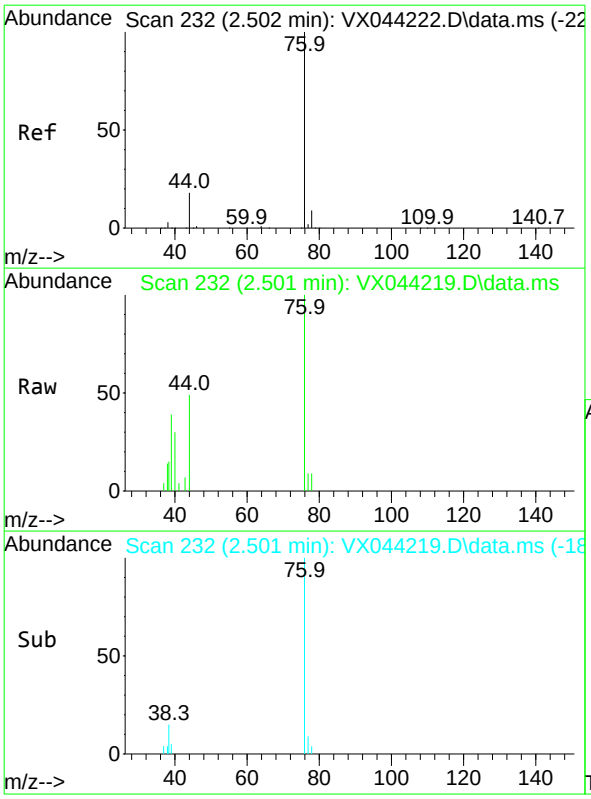


#16
Acetone
Concen: 5.022 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 5096

Ion	Ratio	Lower	Upper
43	100		
58	28.3	21.6	32.4

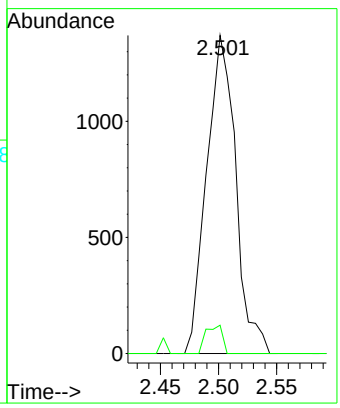




#17
Carbon Disulfide
Concen: 0.789 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 76 Resp: 2387

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/12/2024
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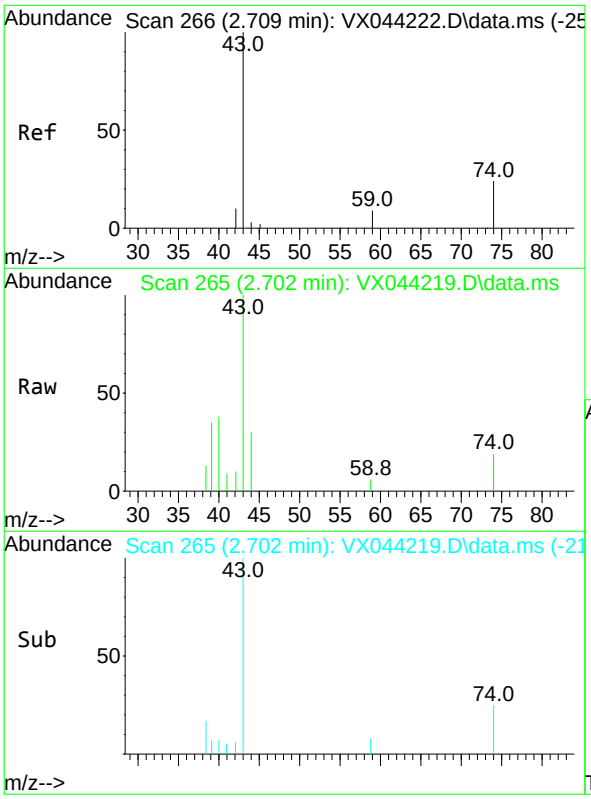
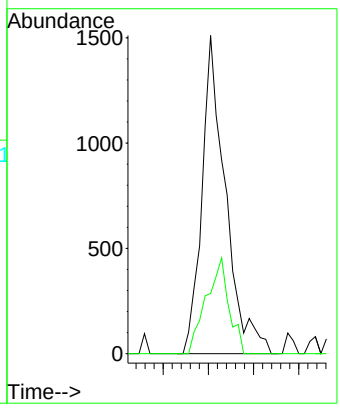
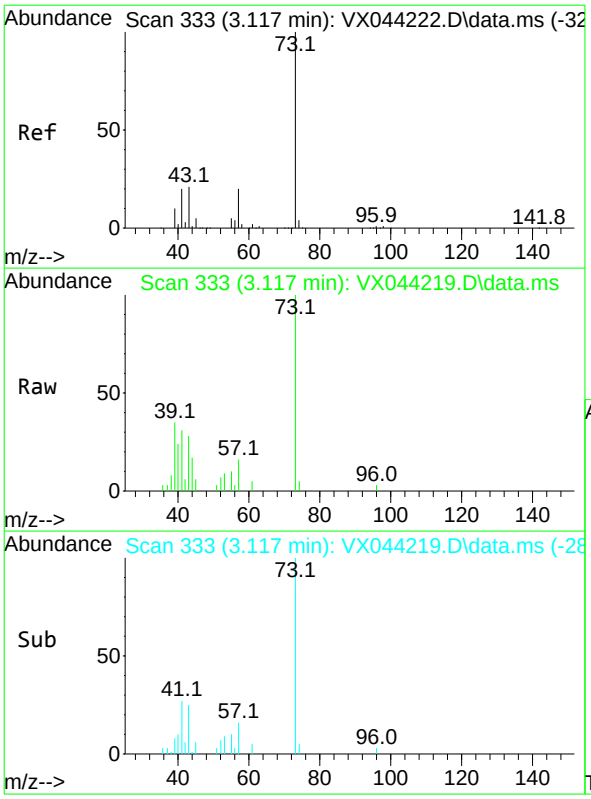


#18
Methyl Acetate
Concen: 1.047 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2739

Ion	Ratio	Lower	Upper
43	100		
74	28.9	17.7	26.5#

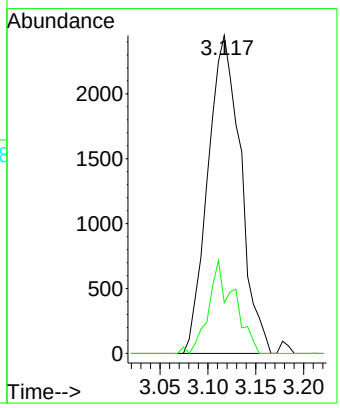




#19
Methyl tert-butyl Ether
Concen: 0.939 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 73 Resp: 5832

Ion	Ratio	Lower	Upper
73	100		
57	16.0	16.2	24.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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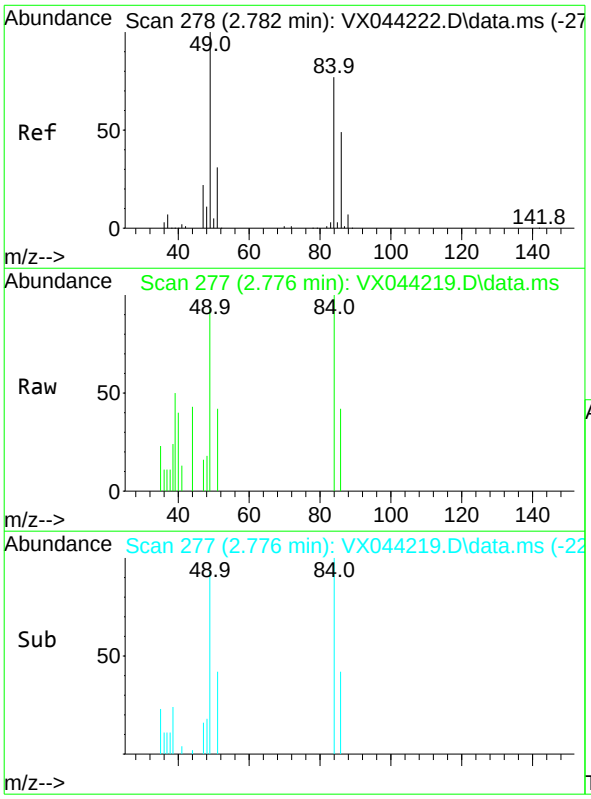
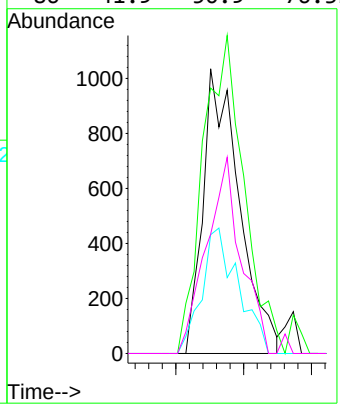
Supervised By :Mahesh Dadoda 12/12/2024

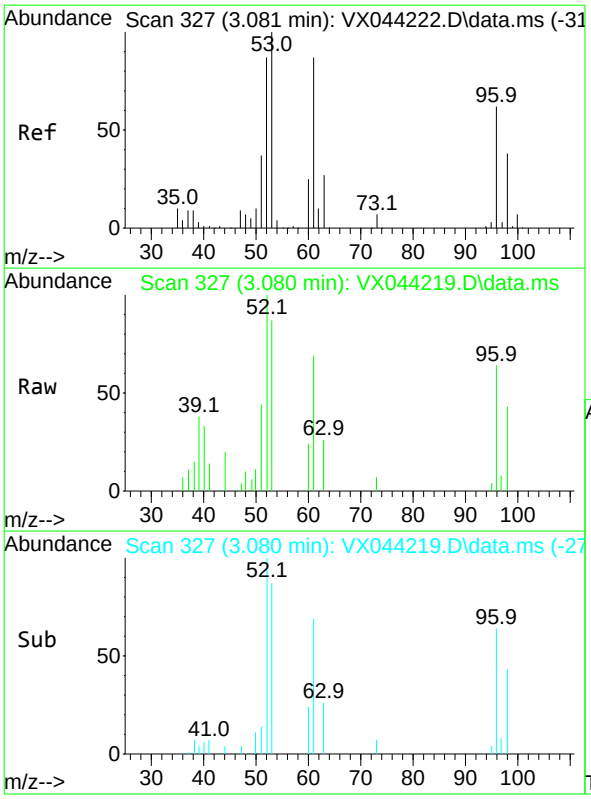


#20
Methylene Chloride
Concen: 1.012 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 84 Resp: 1928

Ion	Ratio	Lower	Upper
84	100		
49	93.2	104.2	156.4#
51	41.7	32.2	48.4
86	41.9	50.9	76.3#

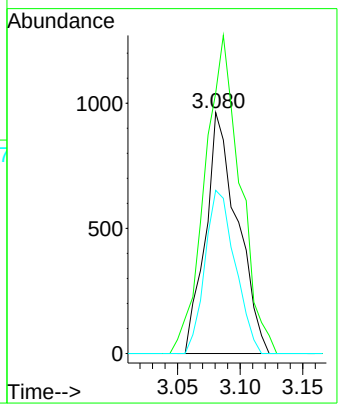




#21
trans-1,2-Dichloroethene
Concen: 1.007 ug/l
RT: 3.080 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 96 Resp: 1703

Ion	Ratio	Lower	Upper
96	100		
61	108.1	112.0	168.0#
98	67.7	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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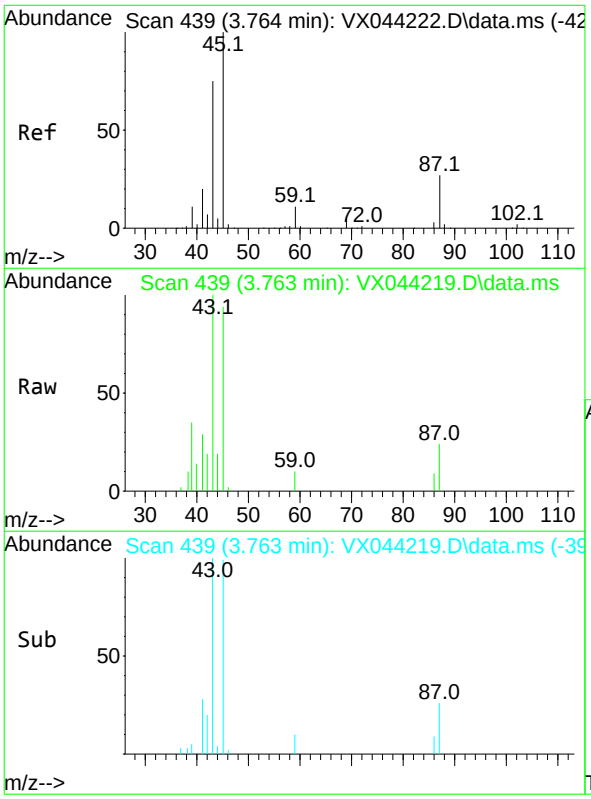
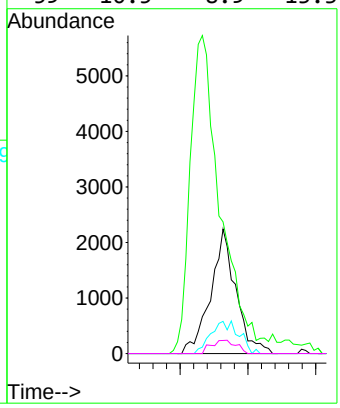
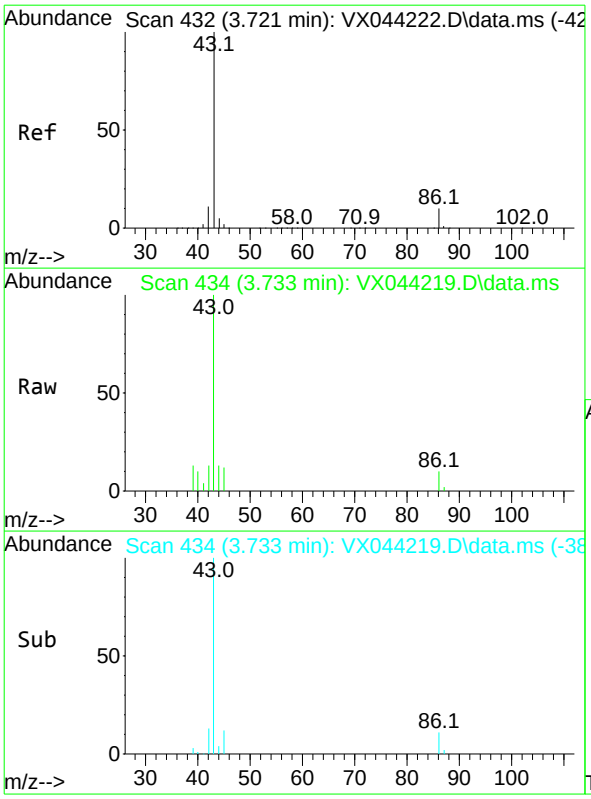


#22
Diisopropyl ether
Concen: 0.971 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 45 Resp: 5792

Ion	Ratio	Lower	Upper
45	100		
43	96.8	60.2	90.2#
87	25.9	21.2	31.8
59	10.5	8.9	13.3

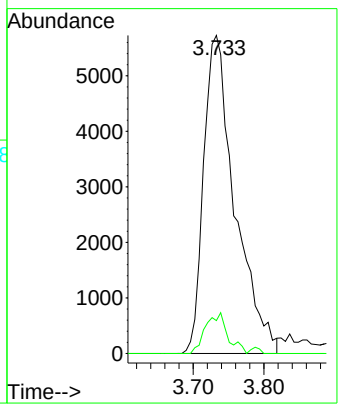




#23
Vinyl Acetate
Concen: 3.623 ug/l
RT: 3.733 min Scan# 43
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 17578

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2



Instrument :
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ClientSampleId :
VSTDICC001

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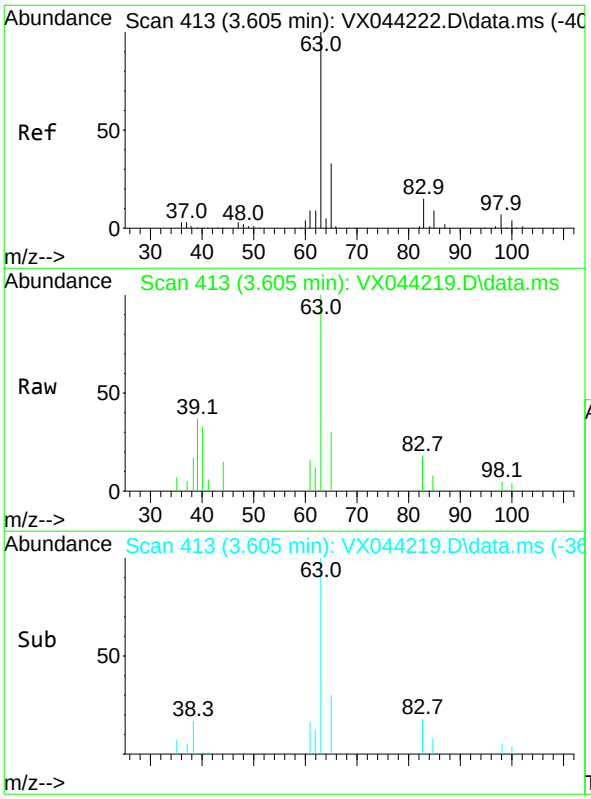
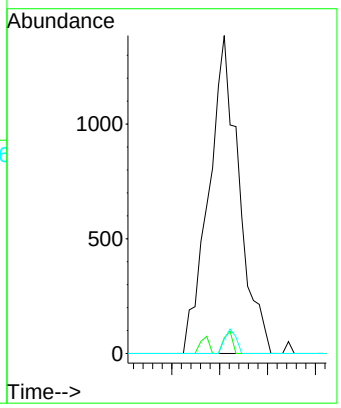
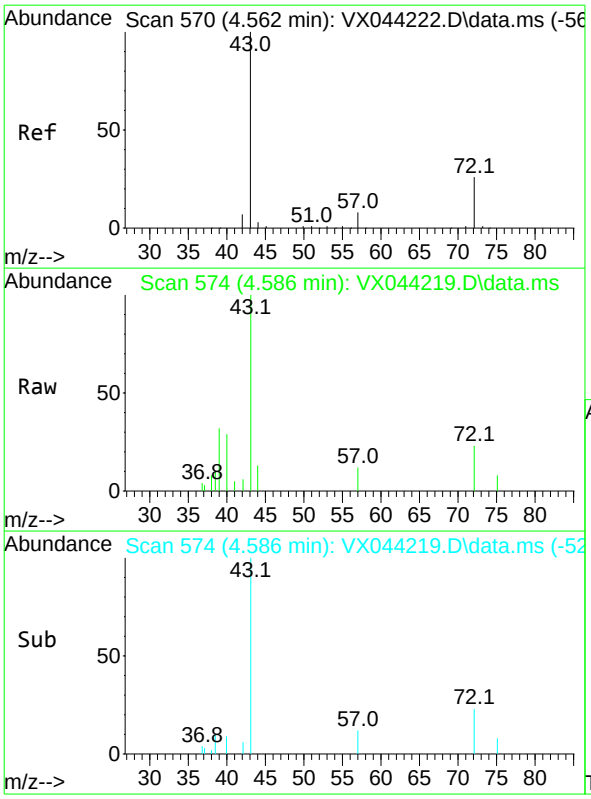


#24
1,1-Dichloroethane
Concen: 0.914 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 3040

Ion	Ratio	Lower	Upper
63	100		
98	4.9	3.6	10.8
100	4.5	2.1	6.3

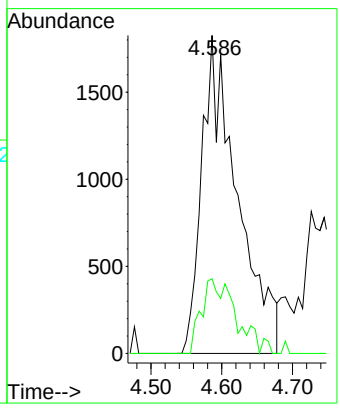




#25
2-Butanone
Concen: 4.423 ug/l
RT: 4.586 min Scan# 57
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 6380

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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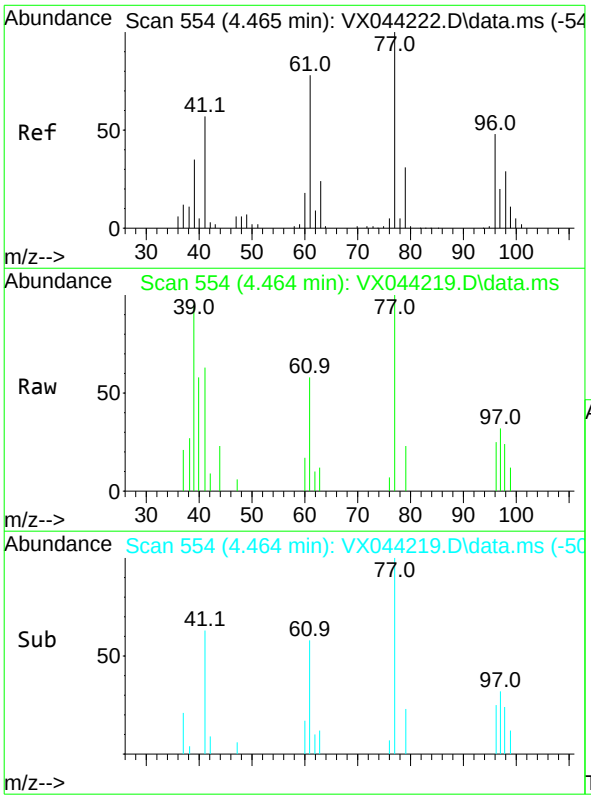
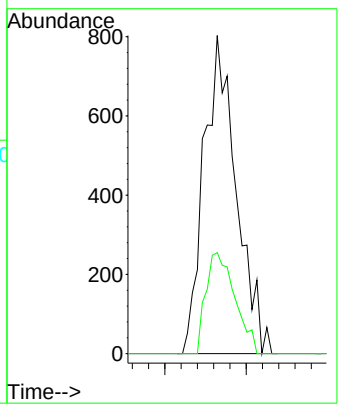
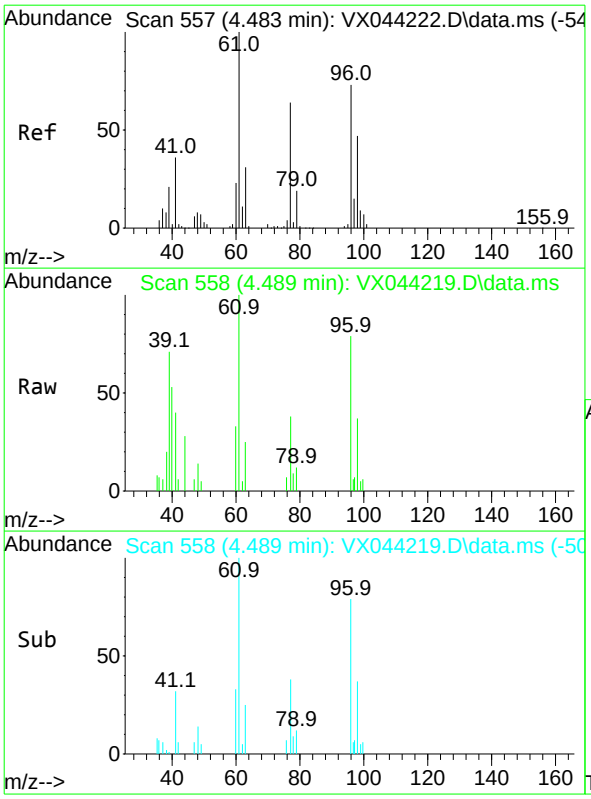


#26
2,2-Dichloropropane
Concen: 0.821 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 77 Resp: 2220

Ion	Ratio	Lower	Upper
77	100		
97	28.4	10.7	32.1

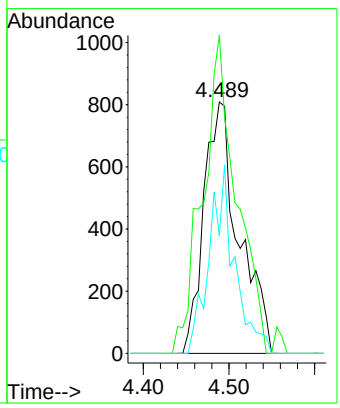




#27
cis-1,2-Dichloroethene
Concen: 1.069 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 96 Resp: 2296

Ion	Ratio	Lower	Upper
96	100		
61	122.2	0.0	299.0
98	54.0	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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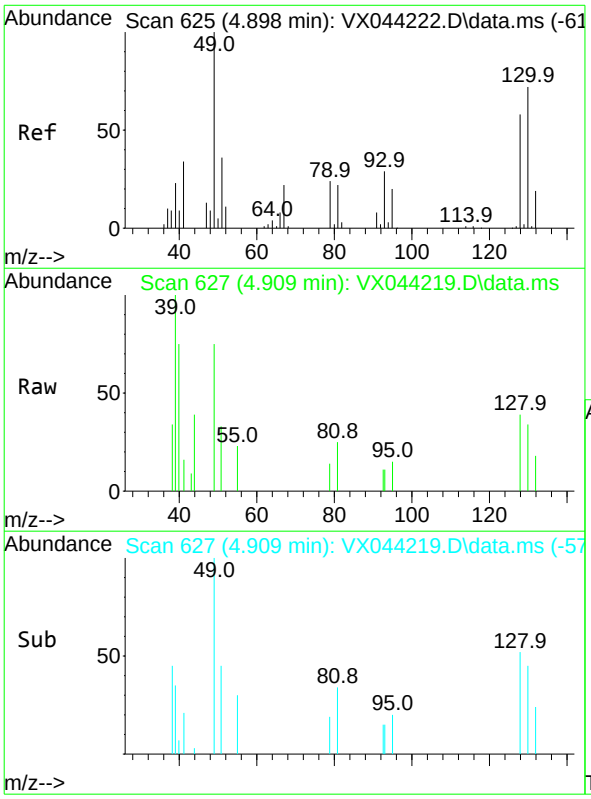
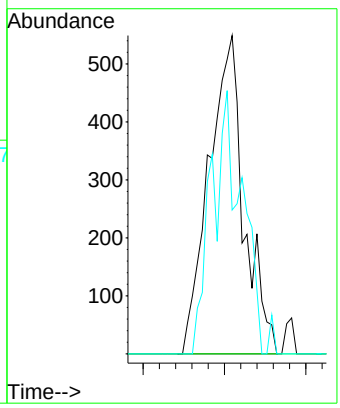
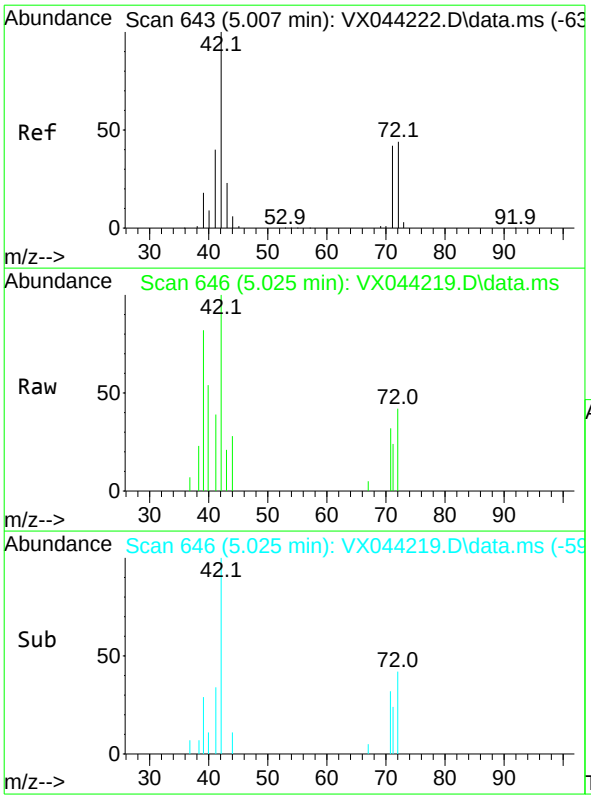


#28
Bromochloromethane
Concen: 1.006 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 49 Resp: 1641

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	52.7	62.1	93.1#

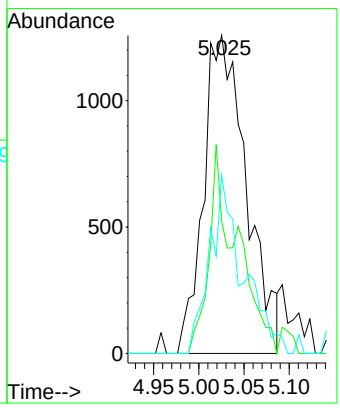




#29
Tetrahydrofuran
Concen: 4.491 ug/l
RT: 5.025 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 42 Resp: 4158

Ion	Ratio	Lower	Upper
42	100		
72	27.0	37.0	55.6#
71	43.1	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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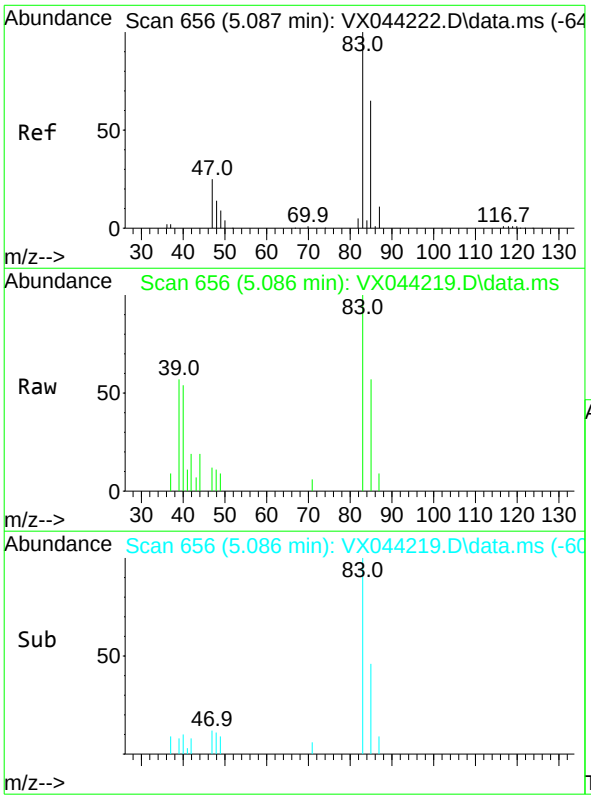
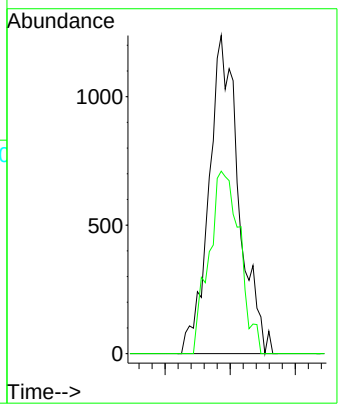
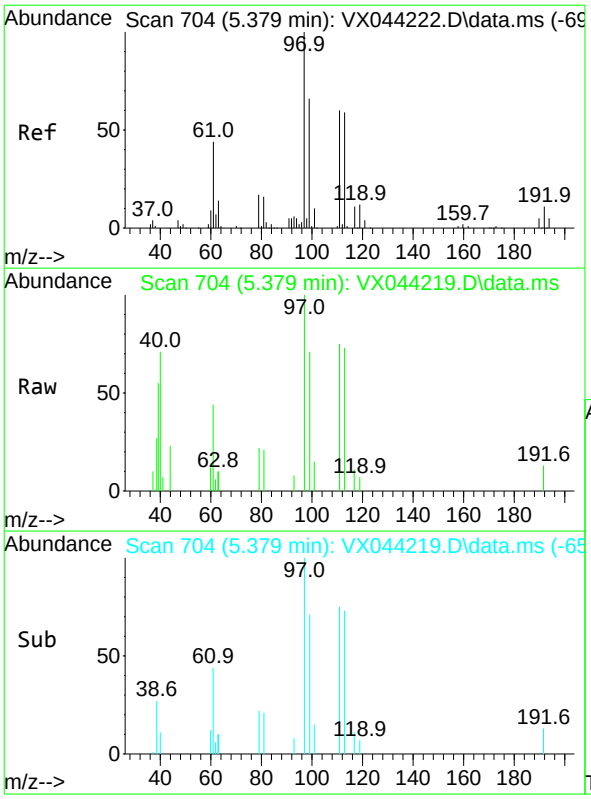


#30
Chloroform
Concen: 1.055 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 3943

Ion	Ratio	Lower	Upper
83	100		
85	57.4	51.6	77.4





#32
1,1,1-Trichloroethane
Concen: 0.908 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 97 Resp: 2818

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	49.9	35.2	52.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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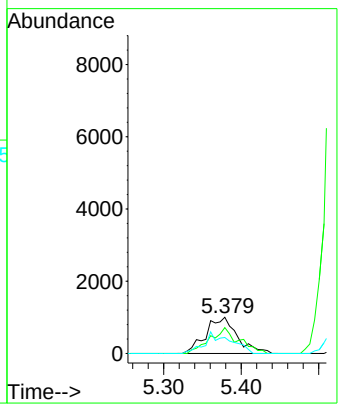
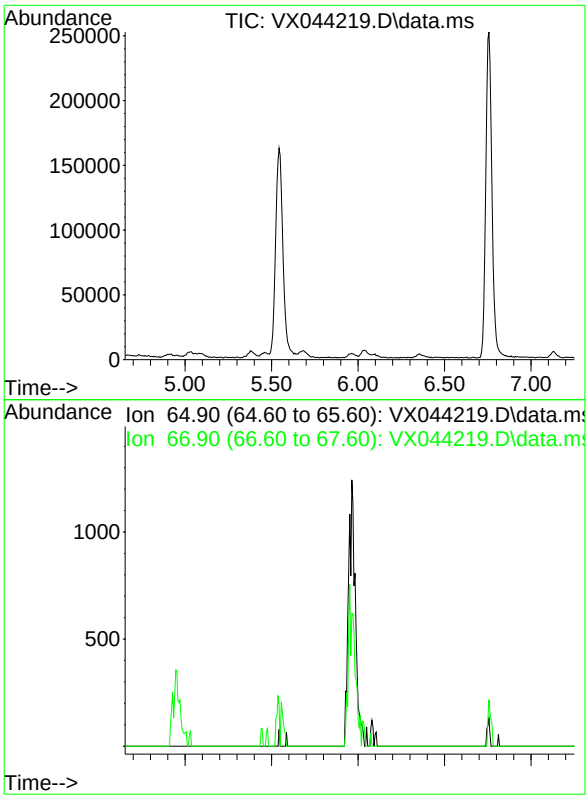


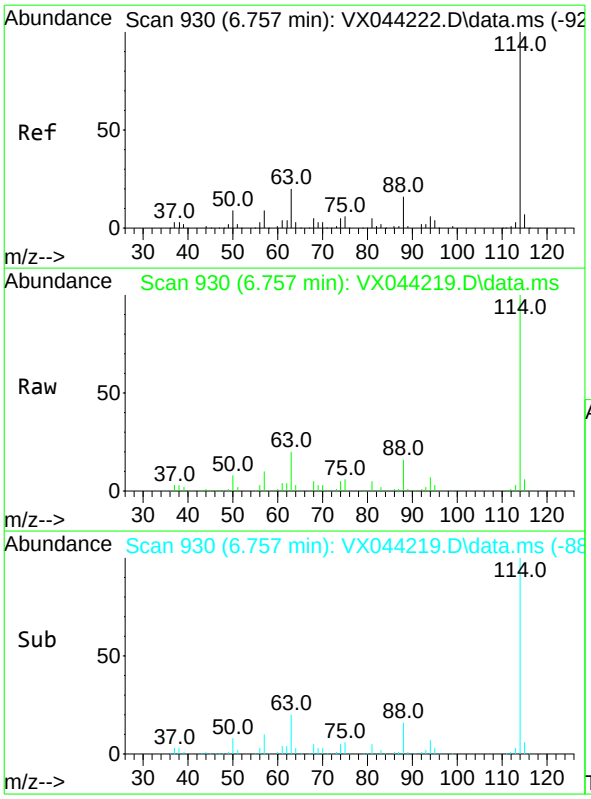


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 65

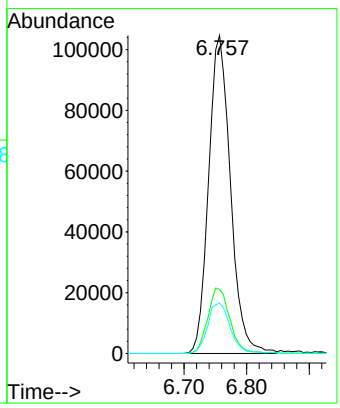
Sig	Exp Ratio
65	100
67	50.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:114 Resp: 253574

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.6
88	15.8	0.0	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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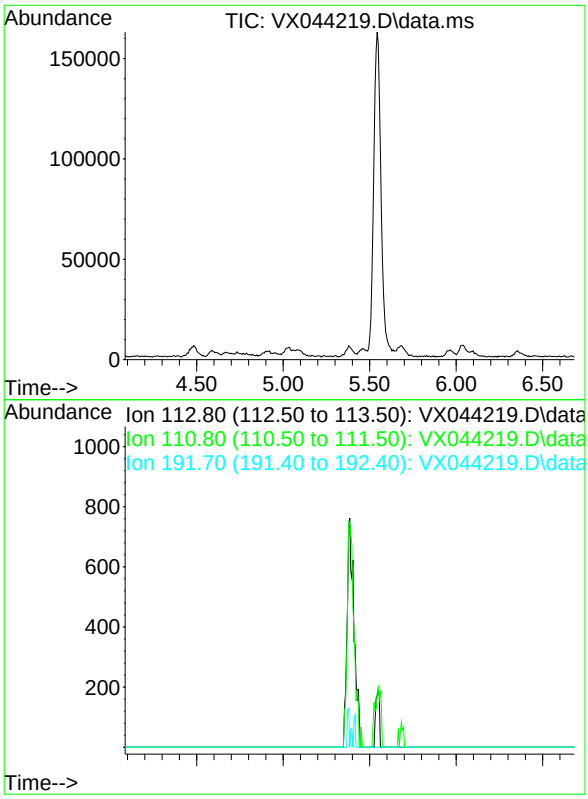
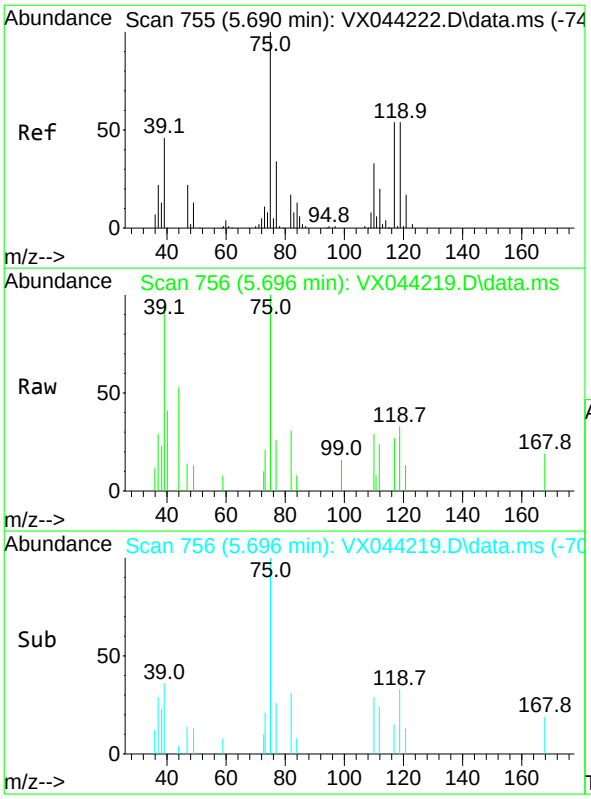


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.39 min

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 113

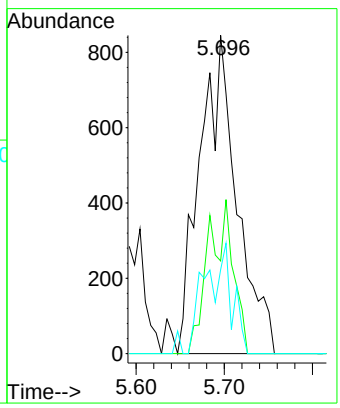
Sig	Exp Ratio
113	100
111	100.5
192	16.6



#36
1,1-Dichloropropene
Concen: 1.092 ug/l m
RT: 5.696 min Scan# 75
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2479

Ion	Ratio	Lower	Upper
75	100		
110	18.4	17.3	51.7
77	12.7	25.4	38.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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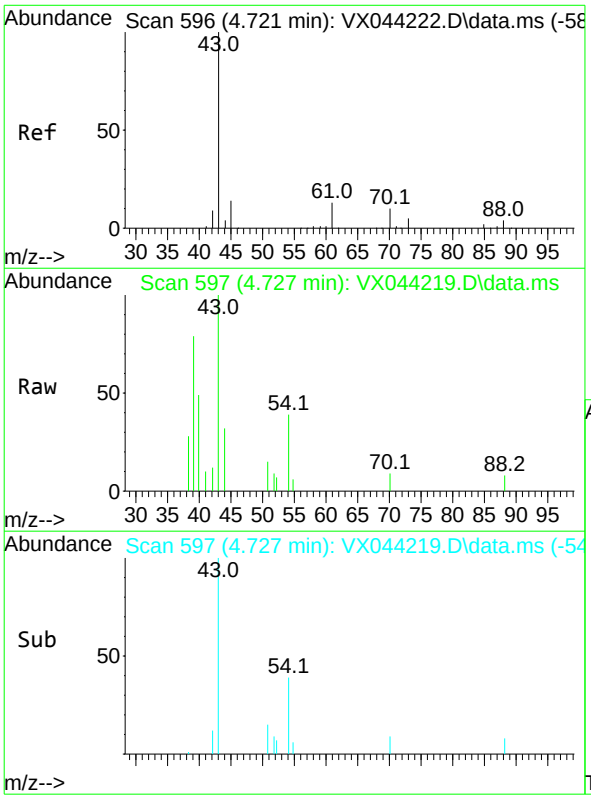
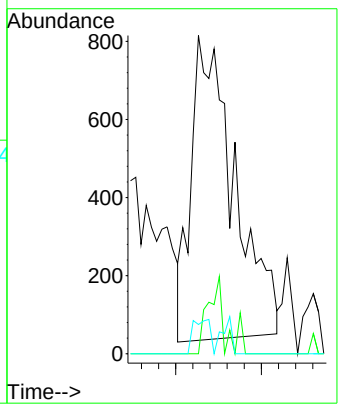
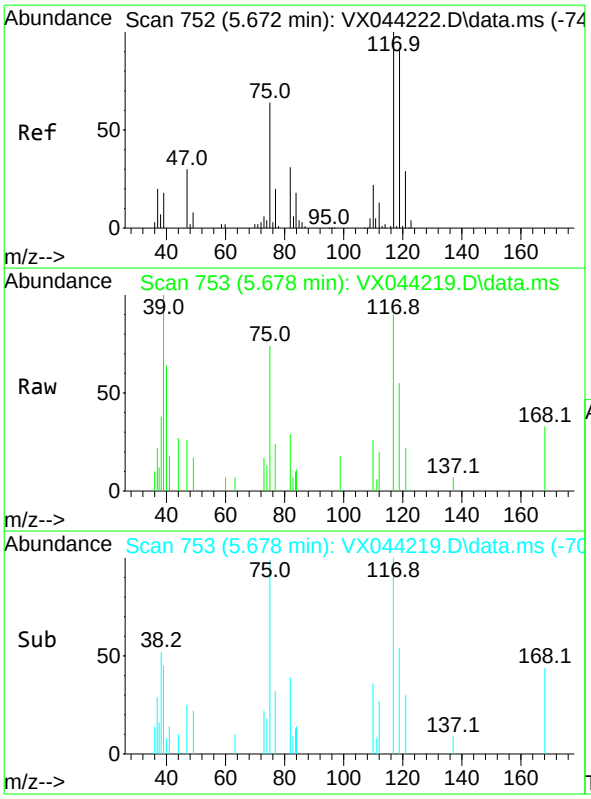


#37
Ethyl Acetate
Concen: 0.969 ug/l
RT: 4.727 min Scan# 597
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2718

Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.8	14.8#
70	0.0	7.7	11.5#

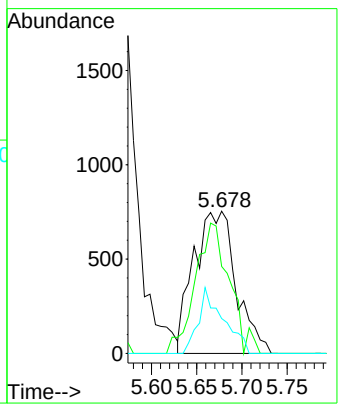




#38
Carbon Tetrachloride
Concen: 1.004 ug/l
RT: 5.678 min Scan# 75
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 2454

Ion	Ratio	Lower	Upper
117	100		
119	61.1	74.2	111.4#
121	24.5	23.0	34.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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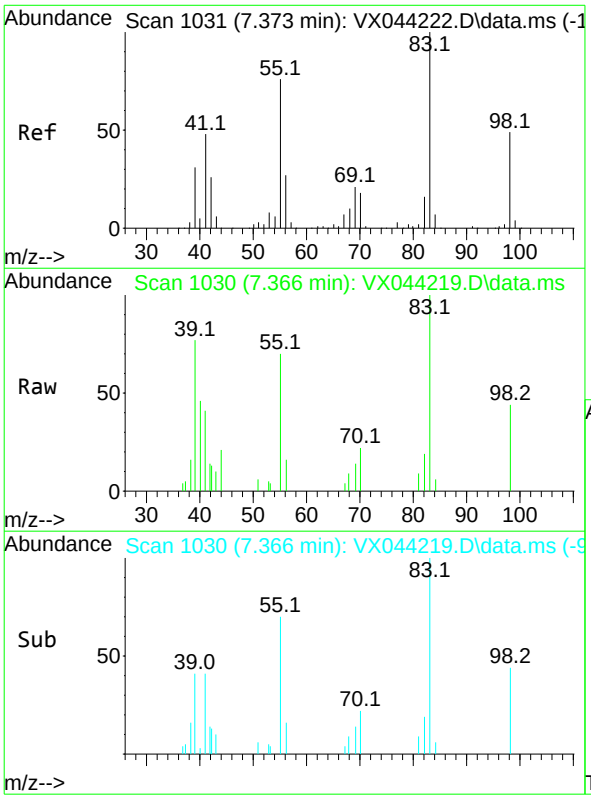
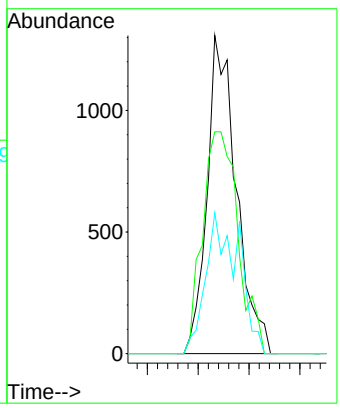
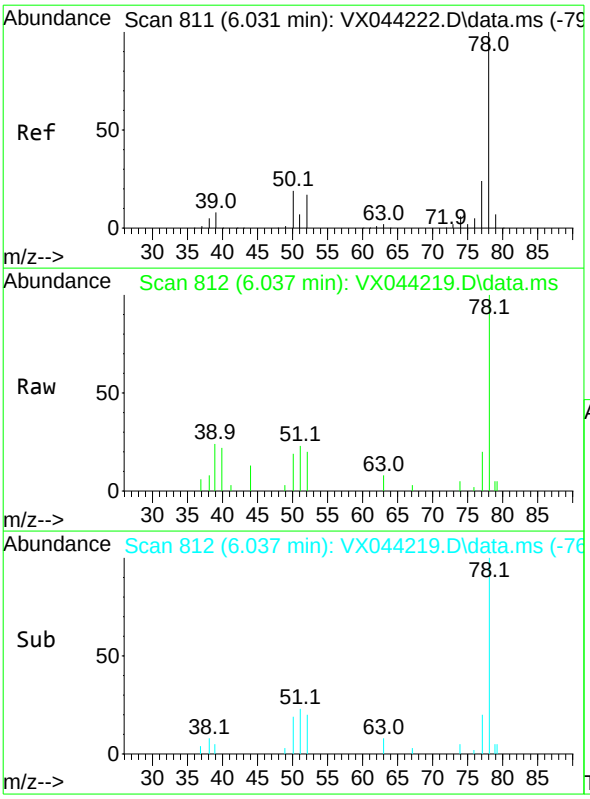


#39
Methylcyclohexane
Concen: 0.960 ug/l
RT: 7.366 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 2606

Ion	Ratio	Lower	Upper
83	100		
55	69.7	60.7	91.1
98	44.3	38.9	58.3

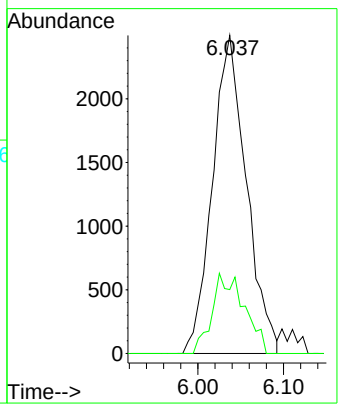




#40
Benzene
Concen: 0.996 ug/l
RT: 6.037 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 78 Resp: 6864

Ion	Ratio	Lower	Upper
78	100		
77	20.1	19.3	28.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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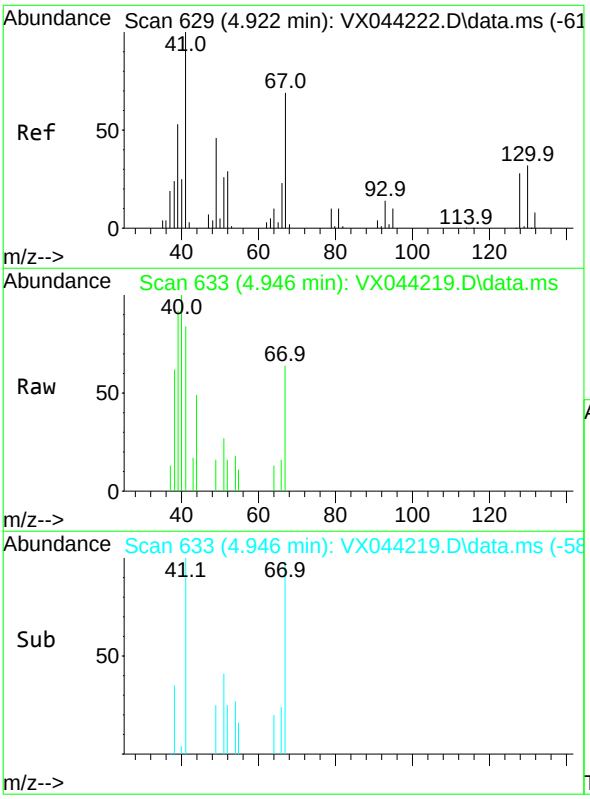
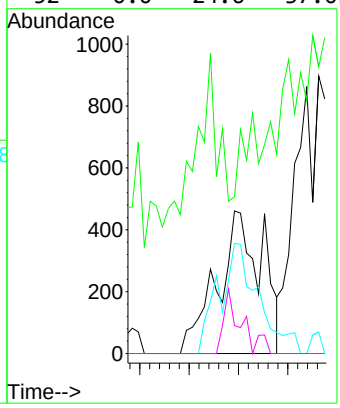
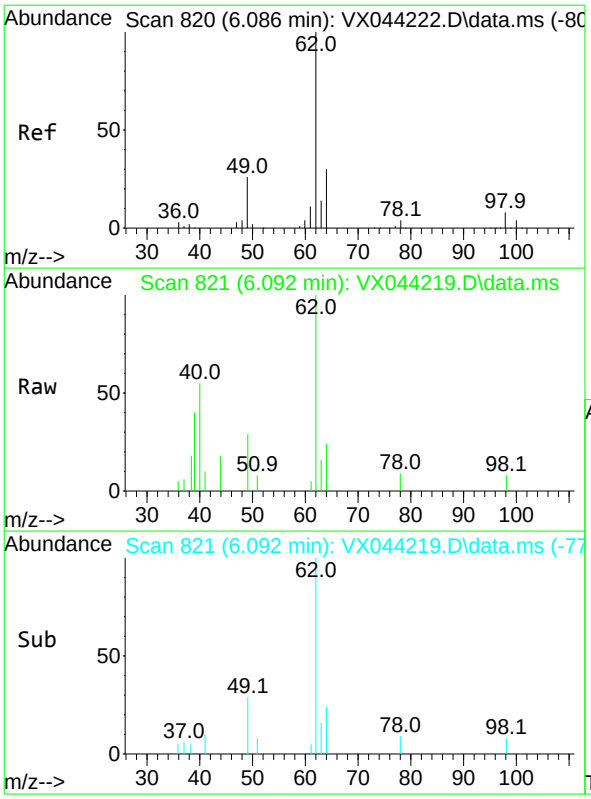


#41
Methacrylonitrile
Concen: 0.971 ug/l m
RT: 4.946 min Scan# 633
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 1447

Ion	Ratio	Lower	Upper
41	100		
39	58.5	44.2	66.4
67	0.0	57.2	85.8#
52	0.0	24.6	37.0#

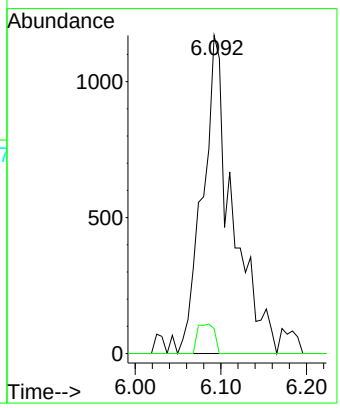




#42
1,2-Dichloroethane
Concen: 0.990 ug/l
RT: 6.092 min Scan# 82
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2810

Ion	Ratio	Lower	Upper
62	100		
98	5.3	0.0	15.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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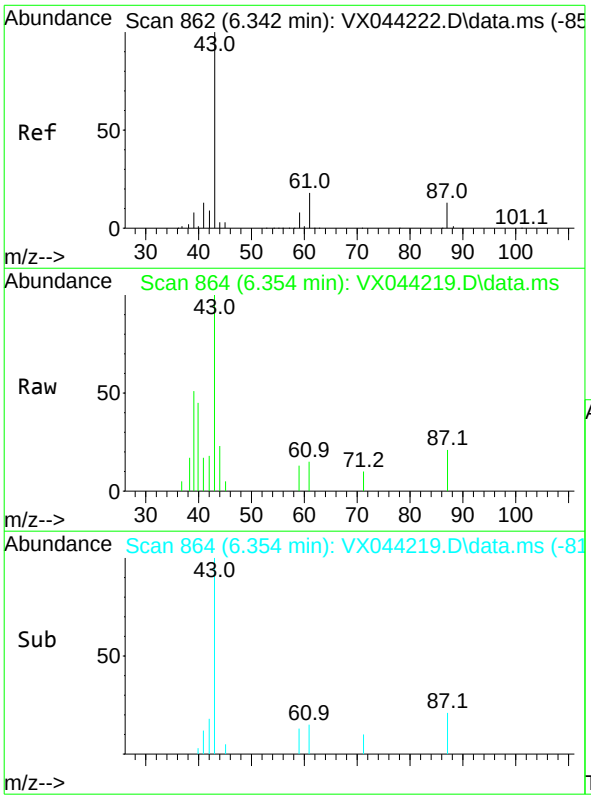
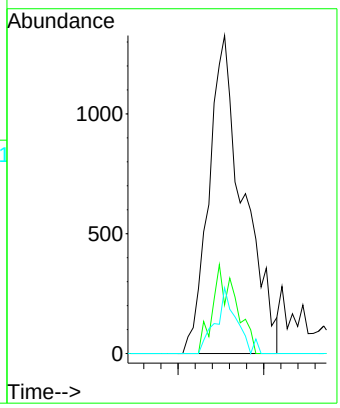
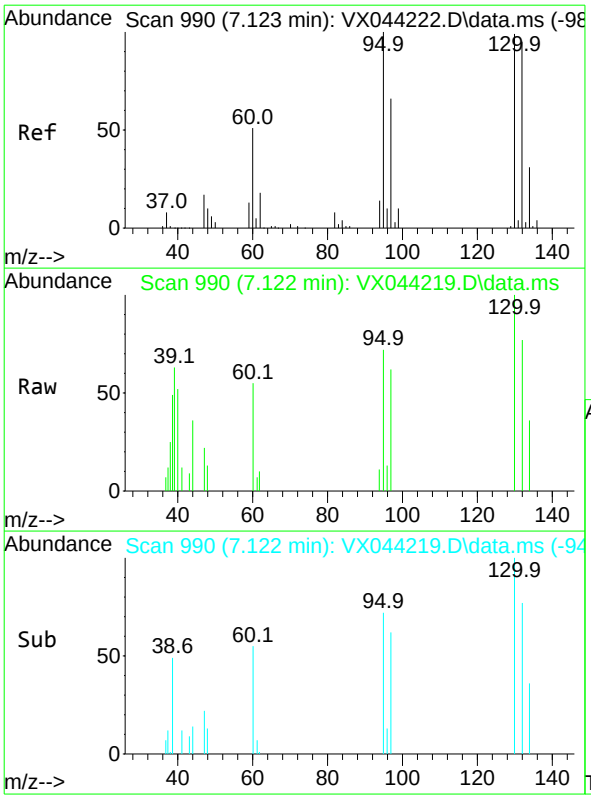


#43
Isopropyl Acetate
Concen: 0.851 ug/l
RT: 6.354 min Scan# 864
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 3734

Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.2	21.2
87	12.4	10.2	15.2

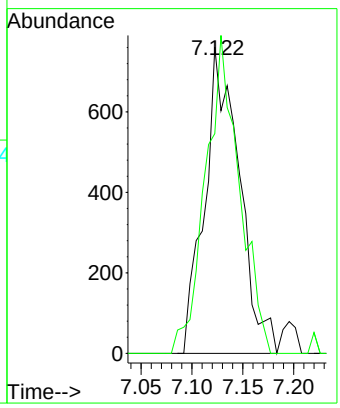




#44
Trichloroethene
Concen: 1.051 ug/l
RT: 7.122 min Scan# 99
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:130 Resp: 1806

Ion	Ratio	Lower	Upper
130	100		
95	71.7	0.0	201.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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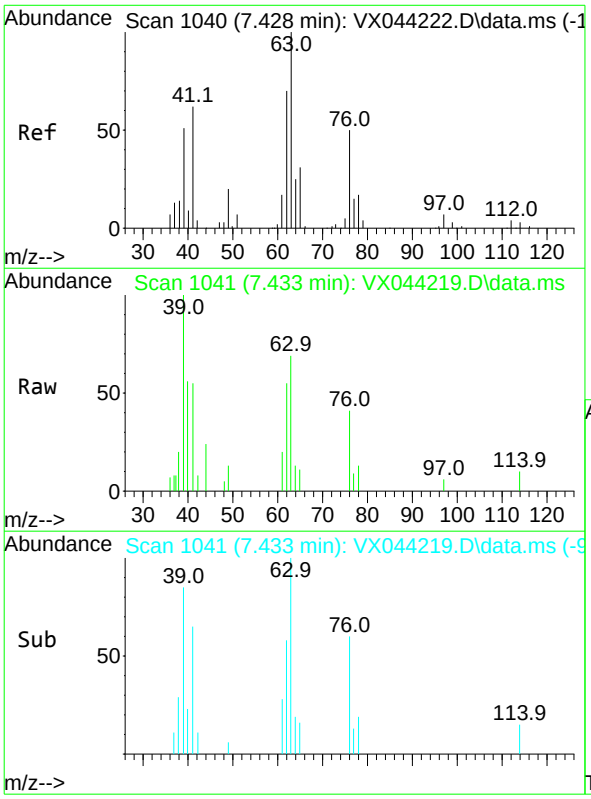
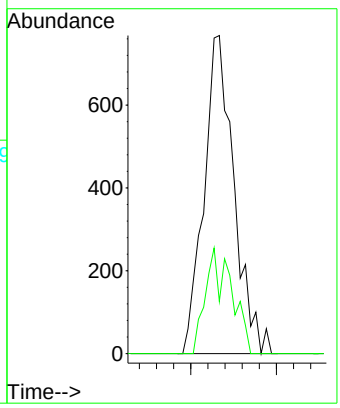
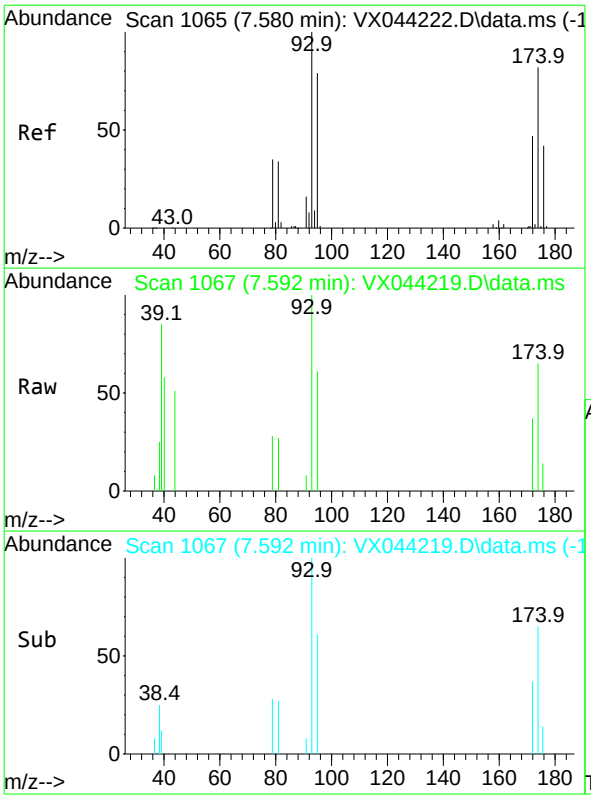


#45
1,2-Dichloropropane
Concen: 1.059 ug/l
RT: 7.433 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 1865

Ion	Ratio	Lower	Upper
63	100		
65	16.4	24.6	37.0#

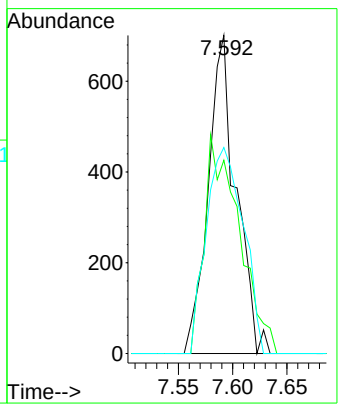




#46
Dibromomethane
Concen: 0.916 ug/l
RT: 7.592 min Scan# 10
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 93 Resp: 1251

Ion	Ratio	Lower	Upper
93	100		
95	85.8	65.4	98.2
174	86.3	67.9	101.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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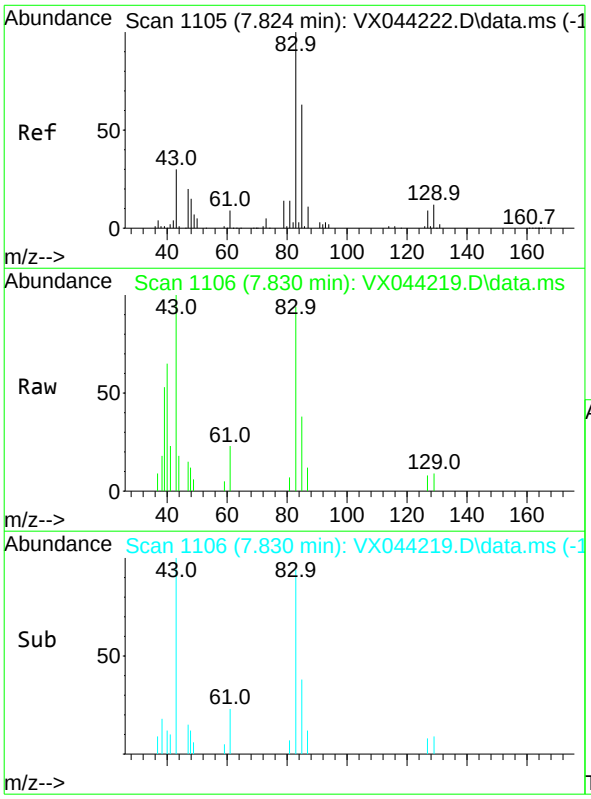
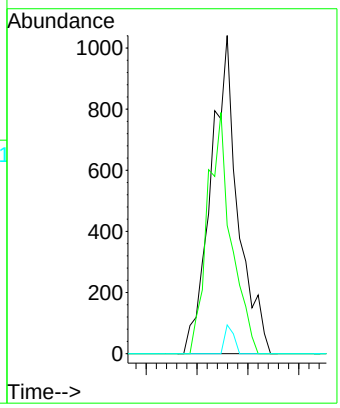
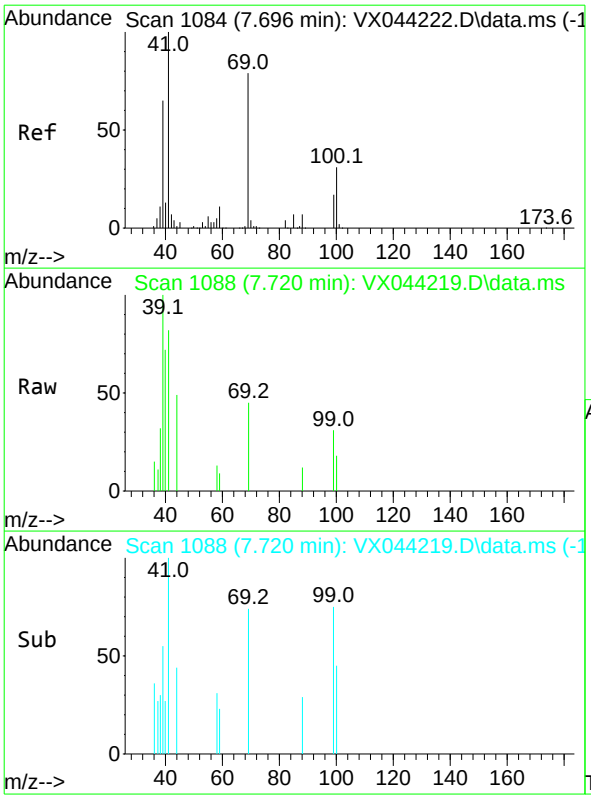


#47
Bromodichloromethane
Concen: 0.816 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 1926

Ion	Ratio	Lower	Upper
83	100		
85	40.3	50.6	75.8#
127	9.0	7.3	10.9

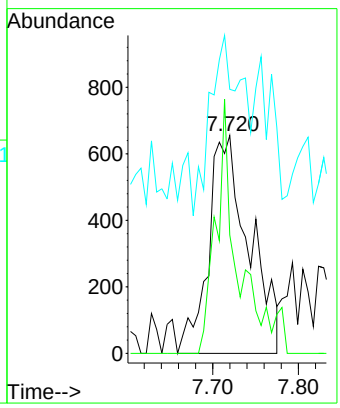




#48
Methyl methacrylate
Concen: 1.018 ug/l
RT: 7.720 min Scan# 10
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 2168

Ion	Ratio	Lower	Upper
41	100		
69	43.9	62.4	93.6#
39	64.1	53.3	79.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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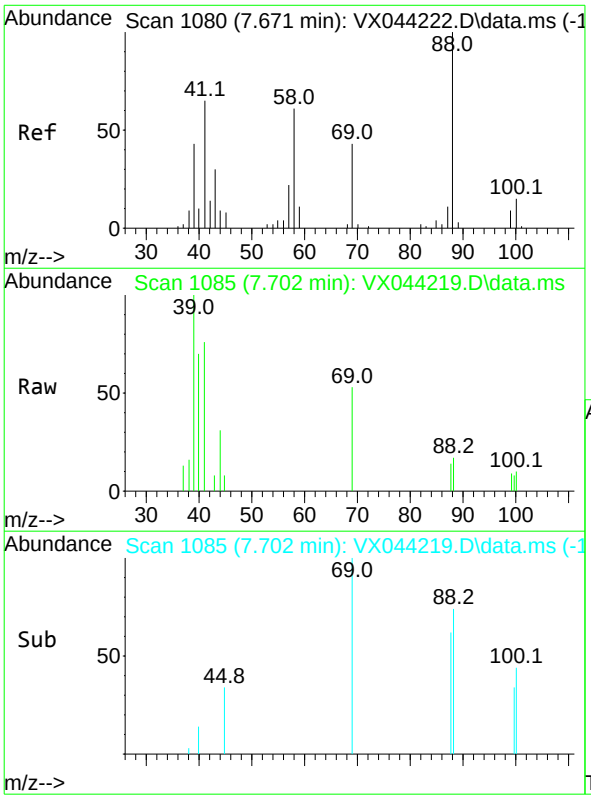
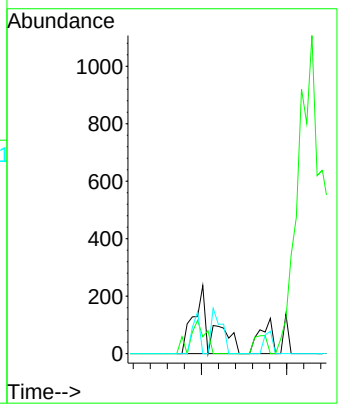
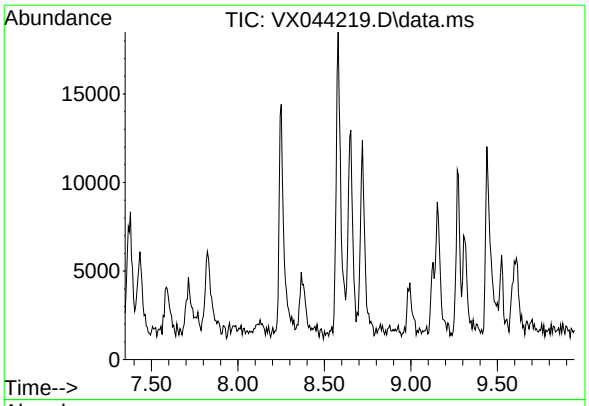


#49
1,4-Dioxane
Concen: 13.522 ug/l m
RT: 7.702 min Scan# 1085
Delta R.T. 0.030 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 88 Resp: 492

Ion	Ratio	Lower	Upper
88	100		
43	28.9	27.1	40.7
58	17.7	41.0	61.4#





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

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	64.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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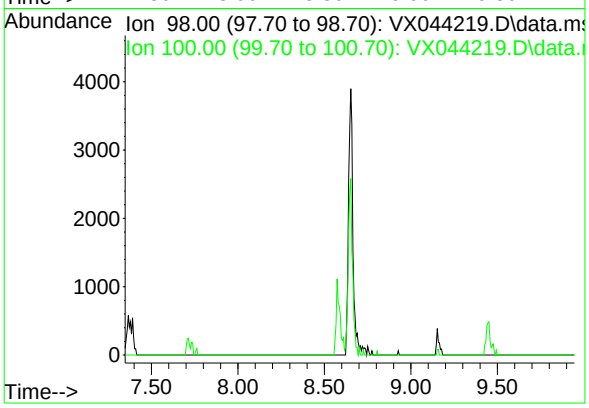
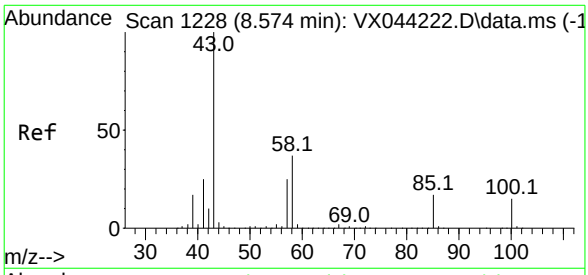
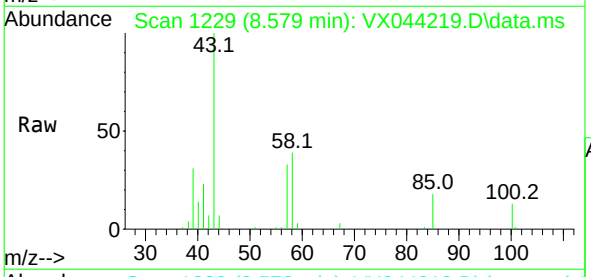


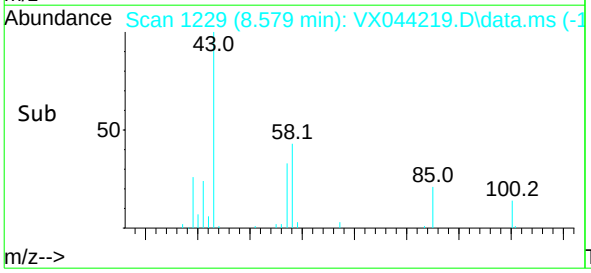


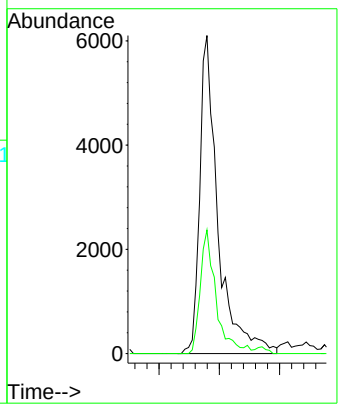
#51
4-Methyl-2-Pentanone
Concen: 4.547 ug/l
RT: 8.579 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

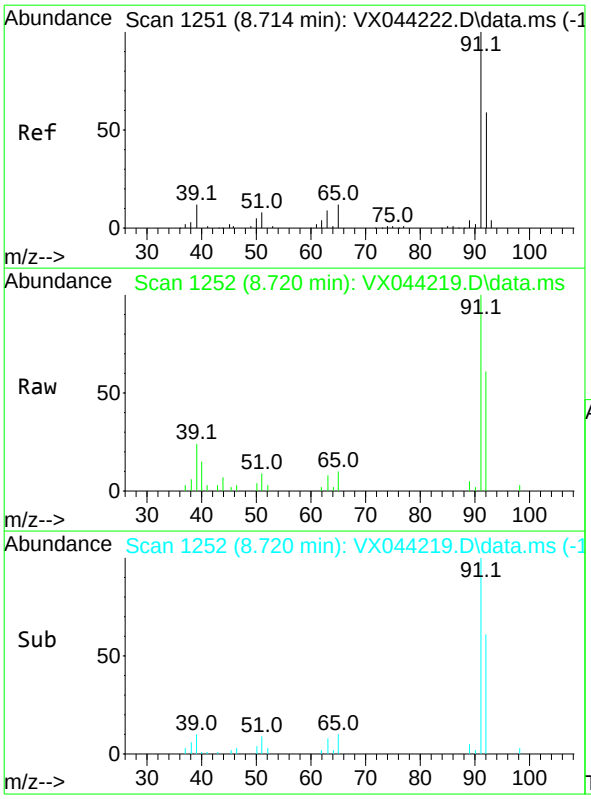
Tgt Ion: 43 Resp: 12824

Ion	Ratio	Lower	Upper
43	100		
58	34.0	29.4	44.0





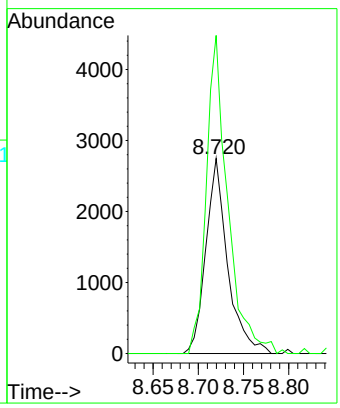




#52
Toluene
Concen: 1.064 ug/l
RT: 8.720 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 92 Resp: 4606

Ion	Ratio	Lower	Upper
92	100		
91	160.1	137.0	205.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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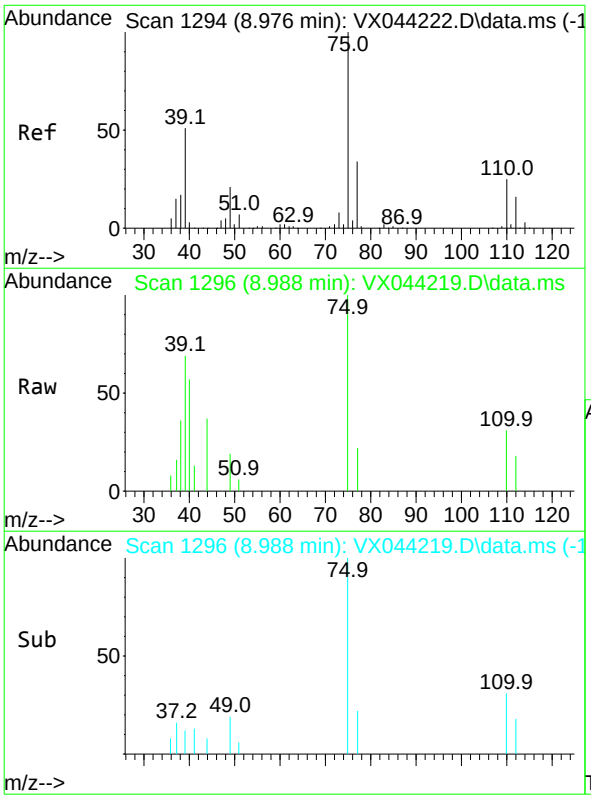
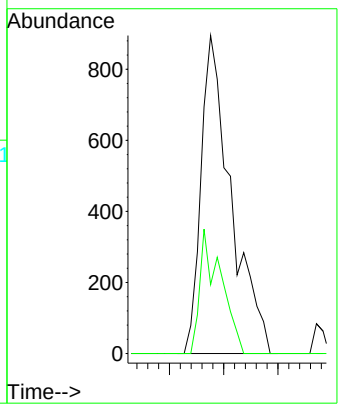
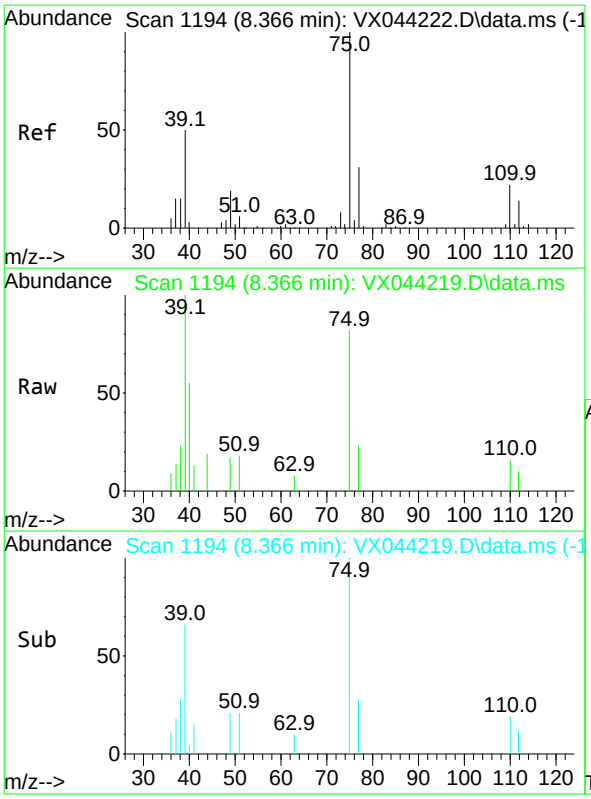


#53
t-1,3-Dichloropropene
Concen: 1.694 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 1716

Ion	Ratio	Lower	Upper
75	100		
77	21.7	27.2	40.8#

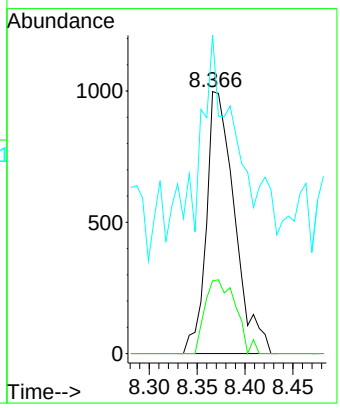




#54
cis-1,3-Dichloropropene
Concen: 0.797 ug/l
RT: 8.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2048

Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.7	37.1
39	76.2	40.3	60.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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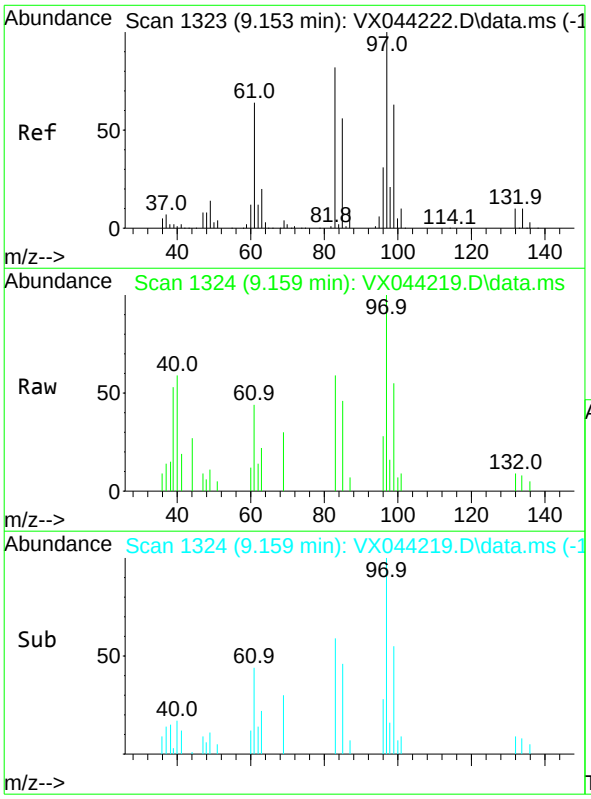
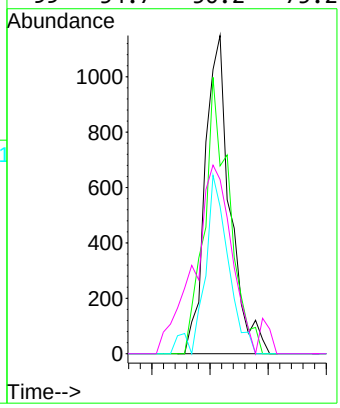
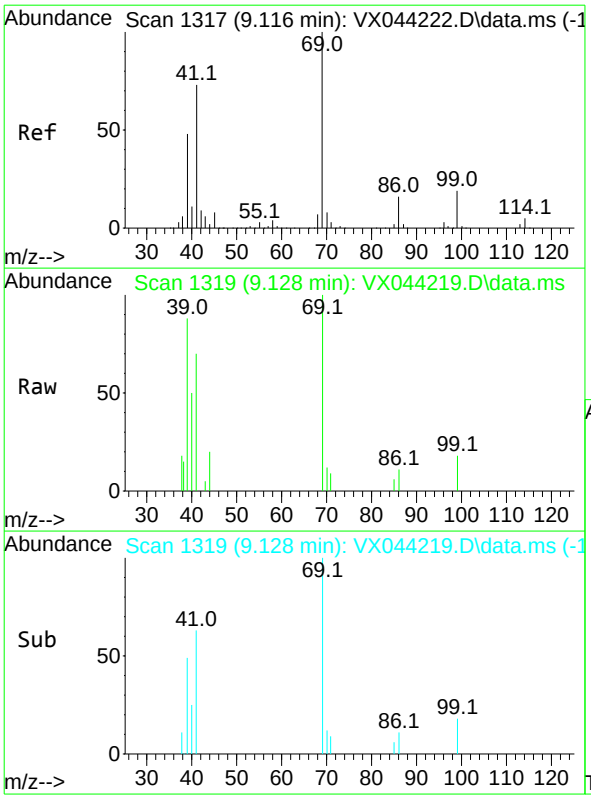


#55
1,1,2-Trichloroethane
Concen: 0.994 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 97 Resp: 1710

Ion	Ratio	Lower	Upper
97	100		
83	59.0	65.3	97.9#
85	46.3	44.6	67.0
99	54.7	50.2	75.2

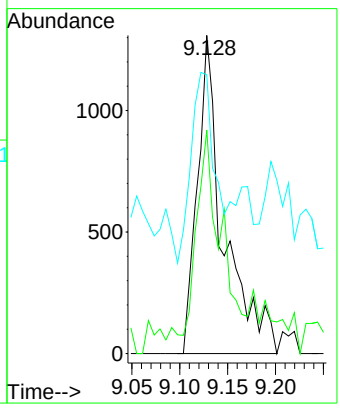




#56
Ethyl methacrylate
Concen: 0.917 ug/l
RT: 9.128 min Scan# 13
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 69 Resp: 2490

Ion	Ratio	Lower	Upper
69	100		
41	55.7	56.6	85.0#
39	53.1	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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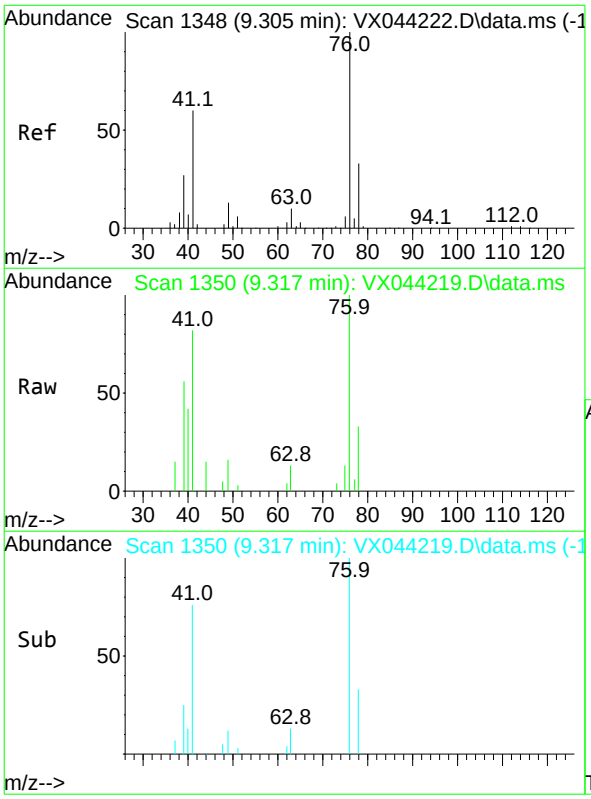
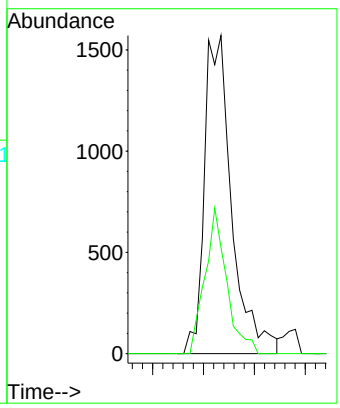
Supervised By :Mahesh Dadoda 12/12/2024

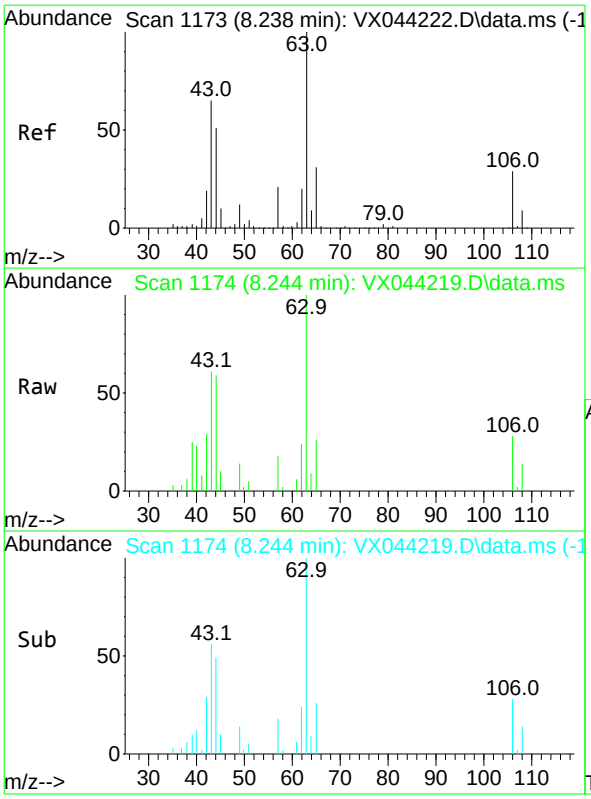


#57
1,3-Dichloropropane
Concen: 0.979 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 76 Resp: 2929

Ion	Ratio	Lower	Upper
76	100		
78	36.5	26.5	39.7

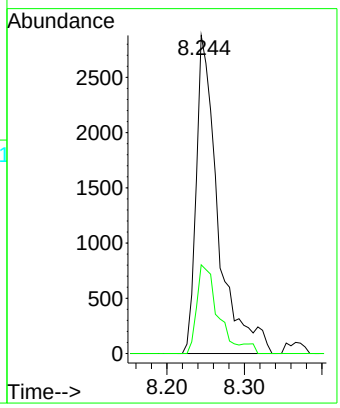




#58
2-Chloroethyl Vinyl ether
Concen: 4.105 ug/l
RT: 8.244 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 5621

Ion	Ratio	Lower	Upper
63	100		
106	26.2	22.8	34.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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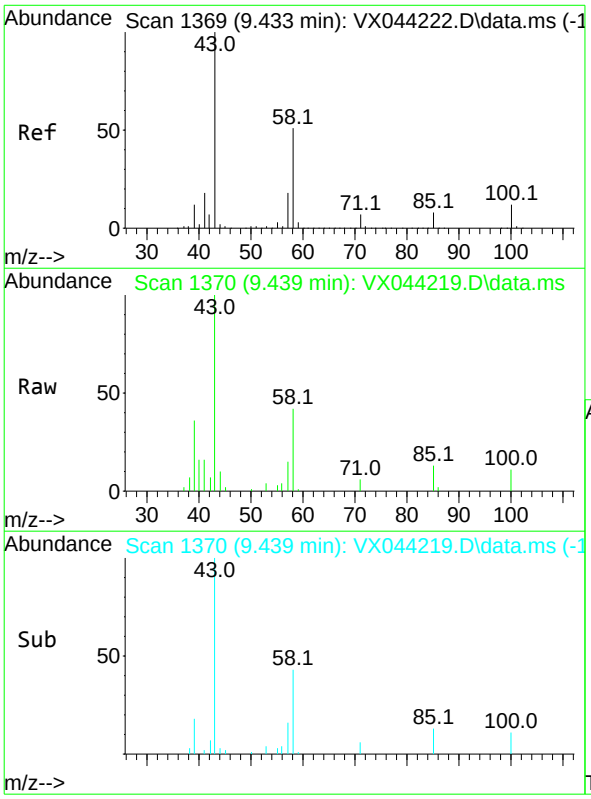
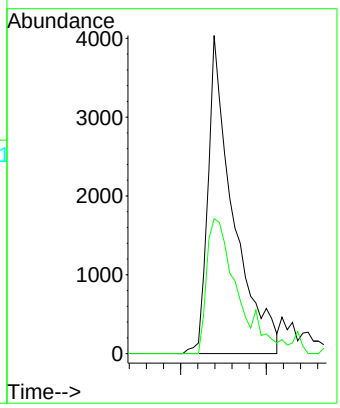
Supervised By :Mahesh Dadoda 12/12/2024

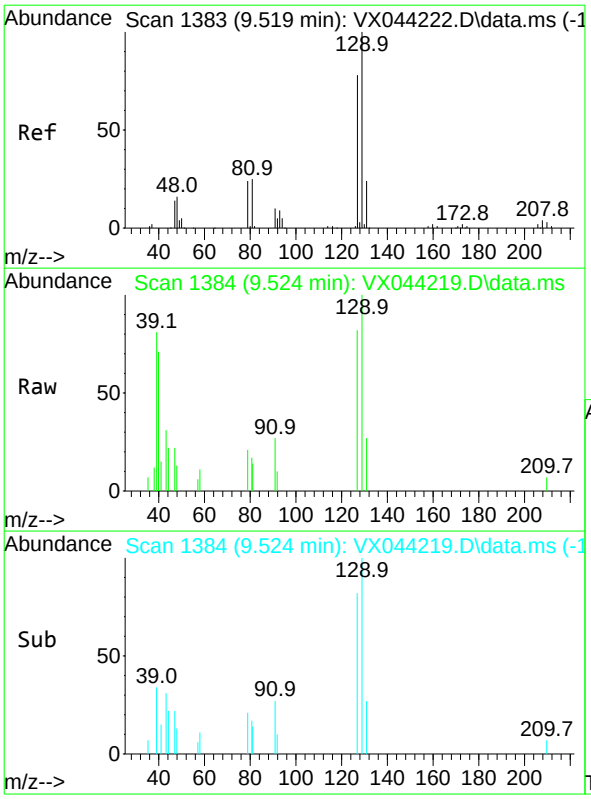


#59
2-Hexanone
Concen: 4.017 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 8199

Ion	Ratio	Lower	Upper
43	100		
58	52.5	25.7	77.0

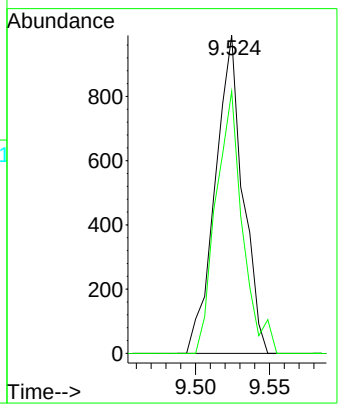




#60
Dibromochloromethane
Concen: 1.953 ug/l
RT: 9.524 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:129 Resp: 1289

Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.5	115.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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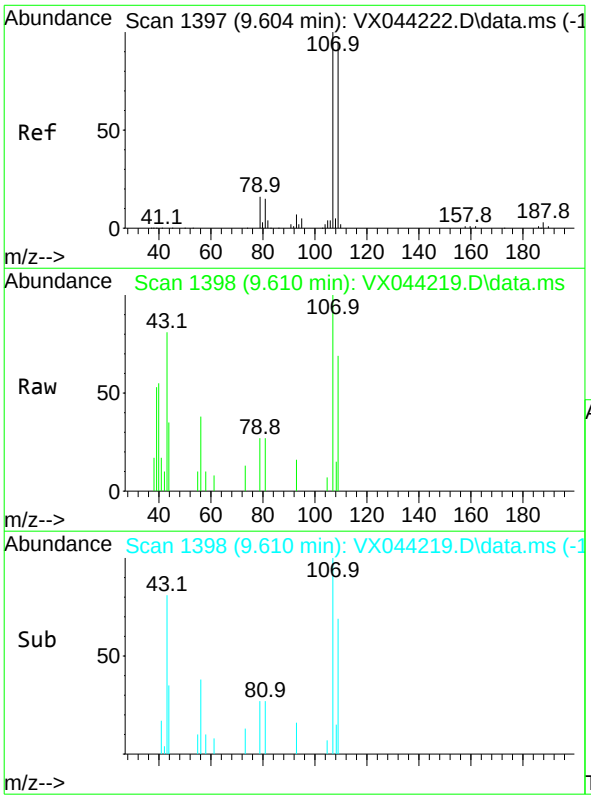
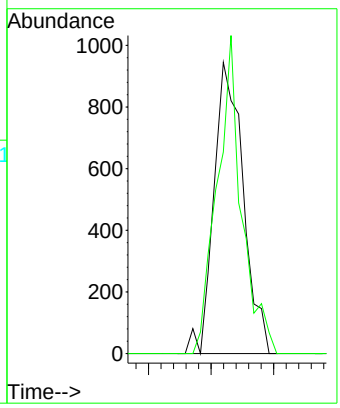
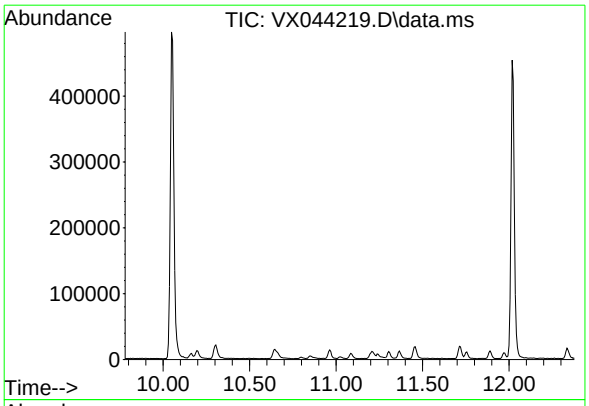


#61
1,2-Dibromoethane
Concen: 0.877 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:107 Resp: 1535

Ion	Ratio	Lower	Upper
107	100		
109	91.3	77.0	115.4





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

Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	72.9
176	68.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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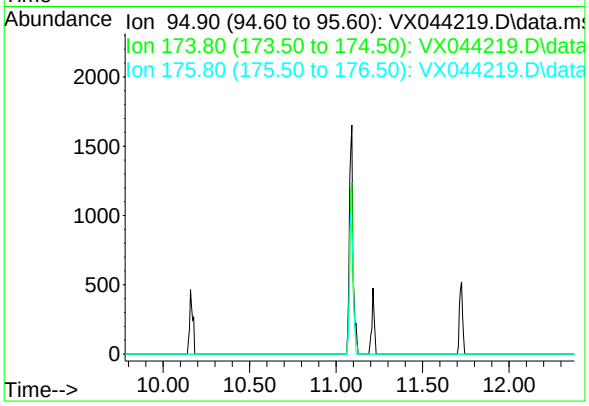
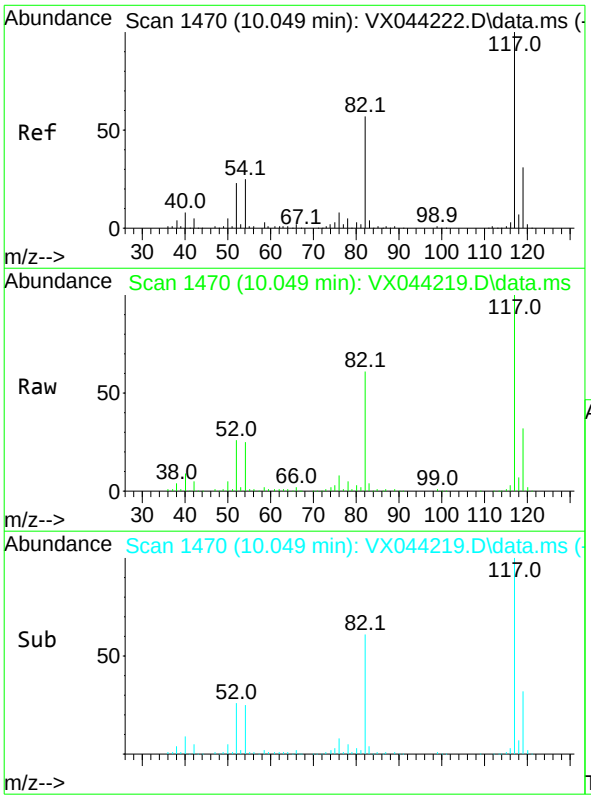
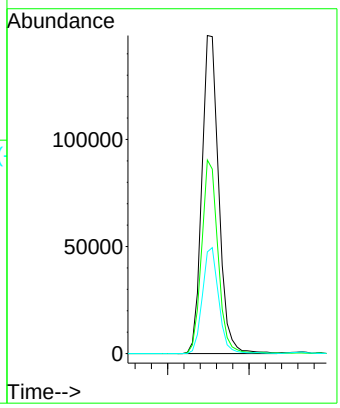


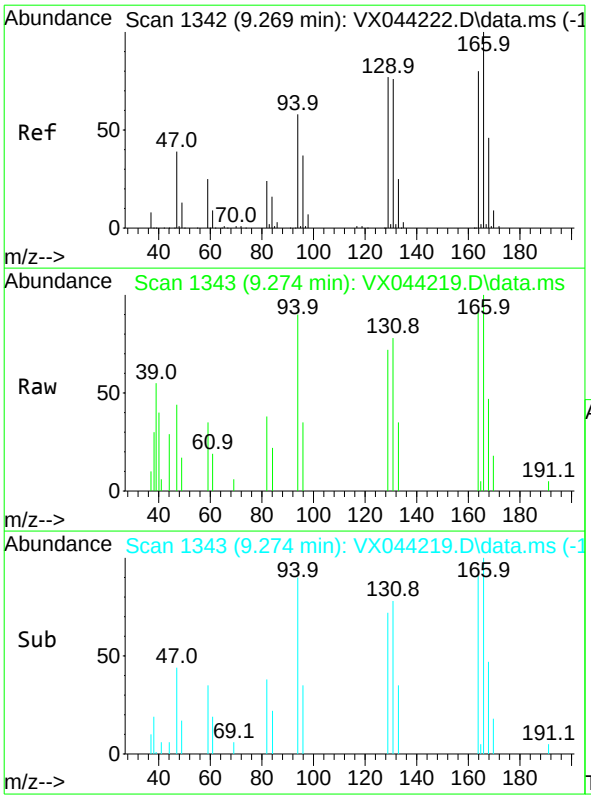


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 213862

Ion	Ratio	Lower	Upper
117	100		
82	60.9	45.8	68.8
119	32.0	25.0	37.4

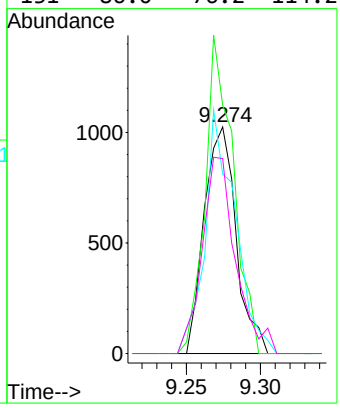




#64
Tetrachloroethene
Concen: 1.082 ug/l
RT: 9.274 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:164 Resp: 1536

Ion	Ratio	Lower	Upper
164	100		
166	109.7	100.4	150.6
129	79.2	77.2	115.8
131	86.0	76.2	114.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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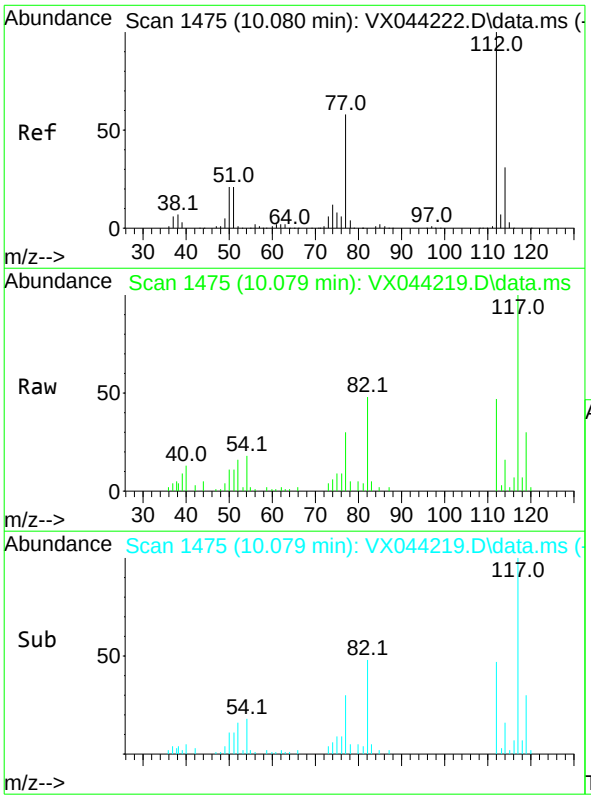
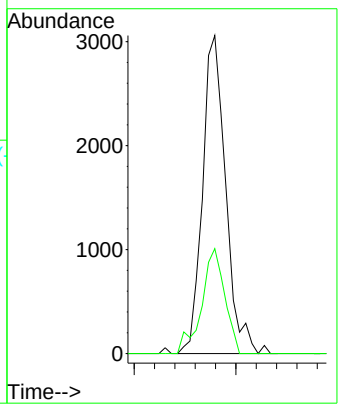
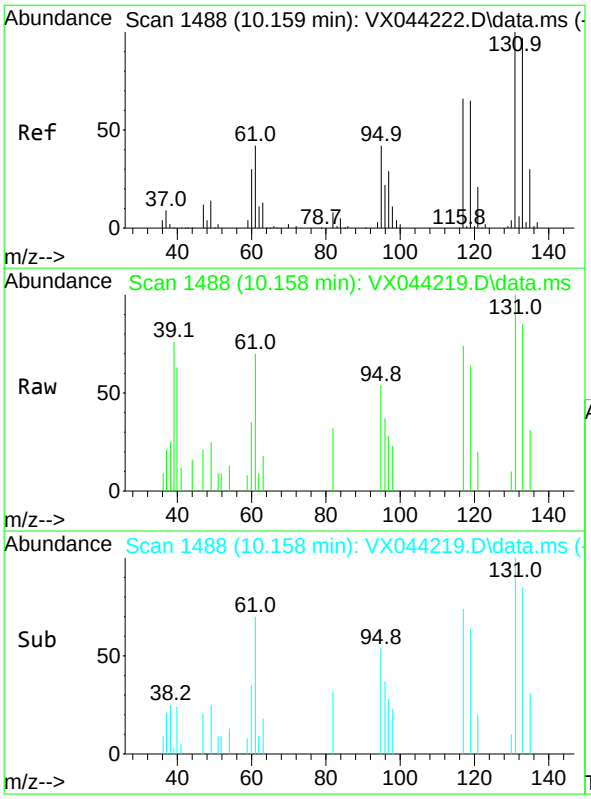


#65
Chlorobenzene
Concen: 1.055 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:112 Resp: 4835

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.0	37.6

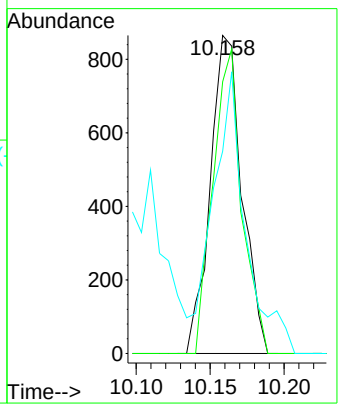




#66
1,1,1,2-Tetrachloroethane
Concen: 0.875 ug/l
RT: 10.158 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:131 Resp: 1288

Ion	Ratio	Lower	Upper
131	100		
133	87.3	47.3	141.8
119	0.0	31.6	95.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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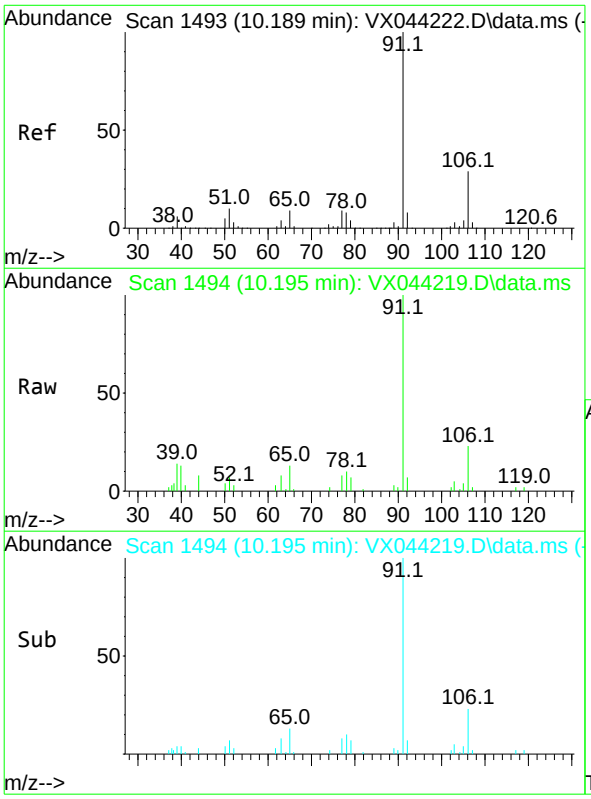
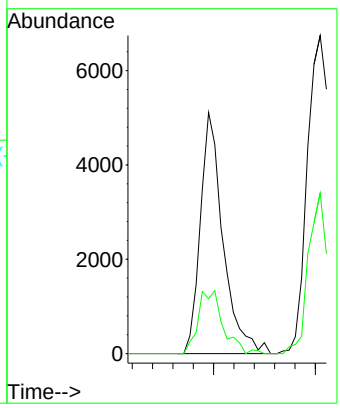
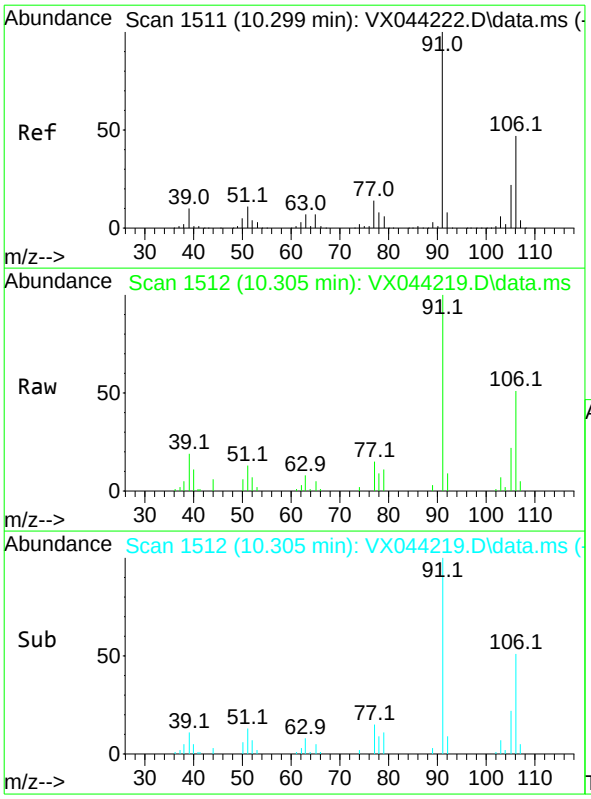


#67
Ethyl Benzene
Concen: 1.001 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 7924

Ion	Ratio	Lower	Upper
91	100		
106	22.7	23.5	35.3#

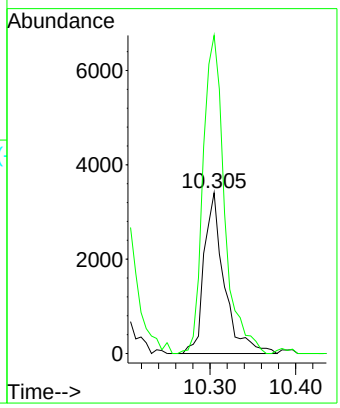




#68
m/p-Xylenes
Concen: 1.922 ug/l
RT: 10.305 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:106 Resp: 5583

Ion	Ratio	Lower	Upper
106	100		
91	210.1	170.2	255.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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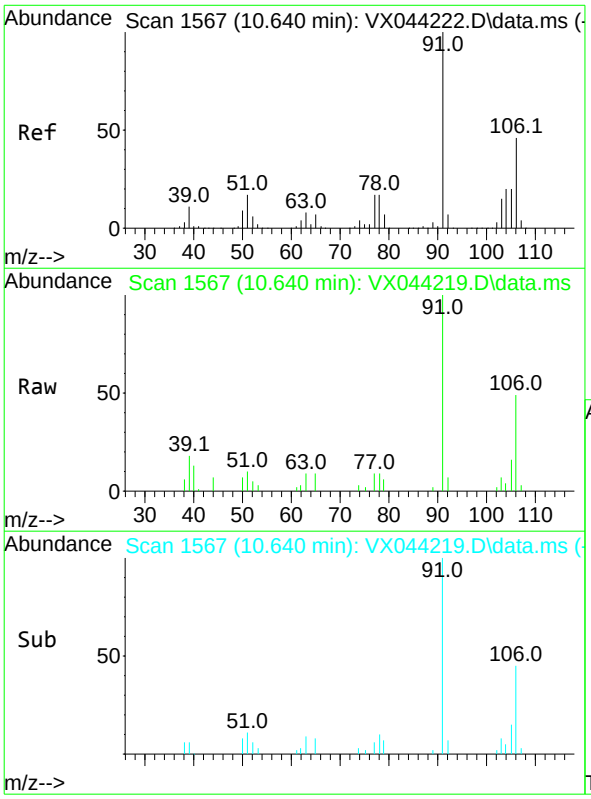
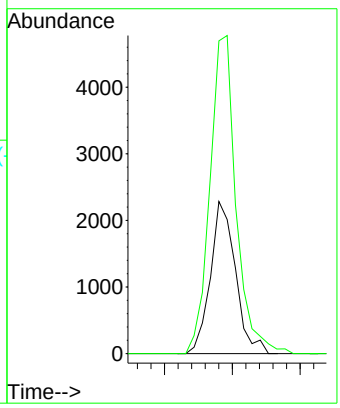
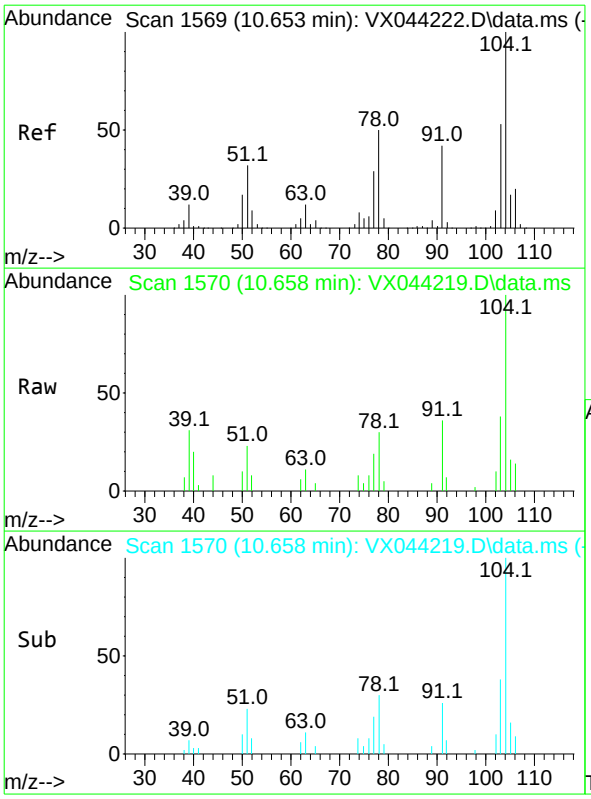


#69
o-Xylene
Concen: 0.998 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:106 Resp: 2933

Ion	Ratio	Lower	Upper
106	100		
91	218.2	112.3	337.0

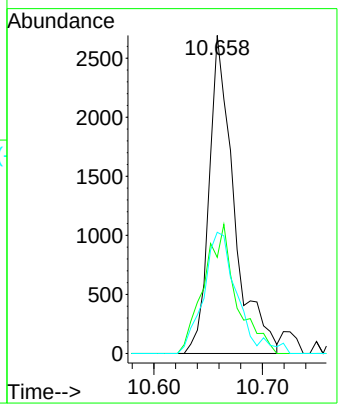




#70
Styrene
Concen: 0.914 ug/l
RT: 10.658 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:104 Resp: 4306

Ion	Ratio	Lower	Upper
104	100		
78	52.8	44.6	67.0
103	51.2	45.4	68.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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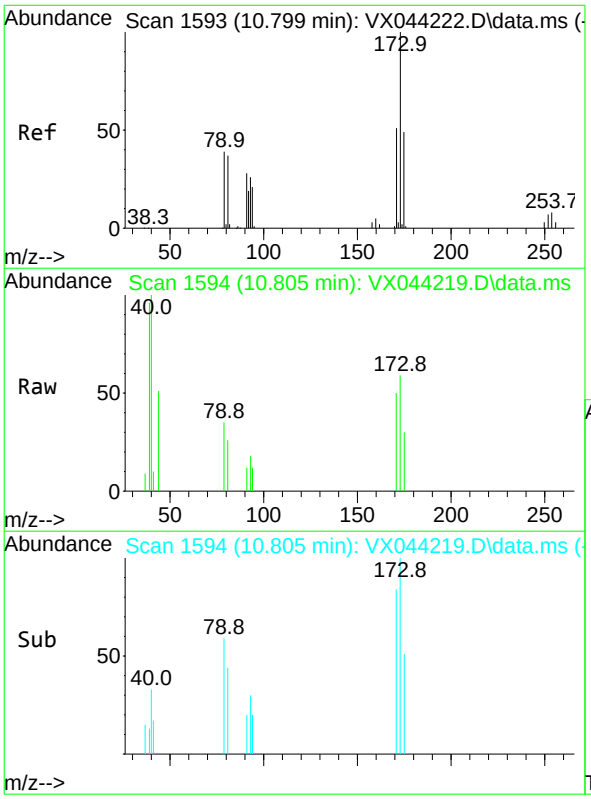
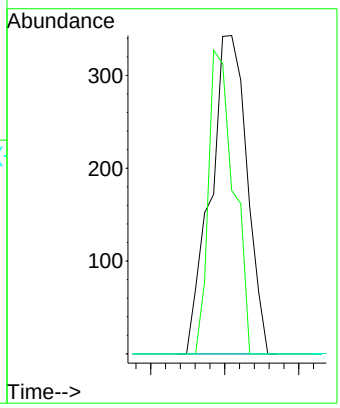
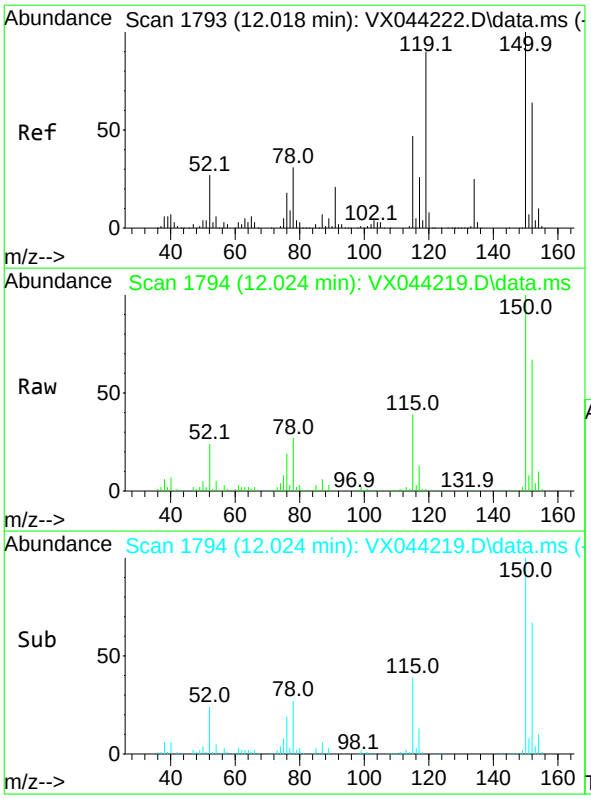


#71
Bromoform
Concen: 1.847 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:173 Resp: 584

Ion	Ratio	Lower	Upper
173	100		
175	66.1	23.8	71.4
254	0.0	0.0	0.0

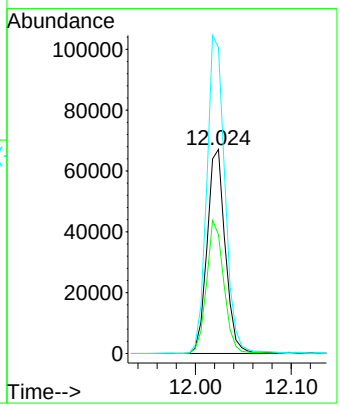




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:152 Resp: 88334

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.5	133.3
150	155.1	0.0	353.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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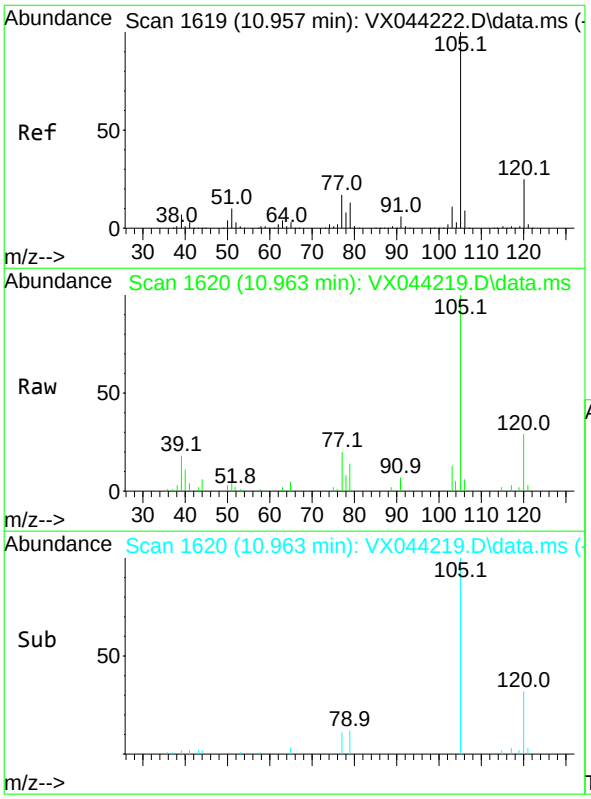
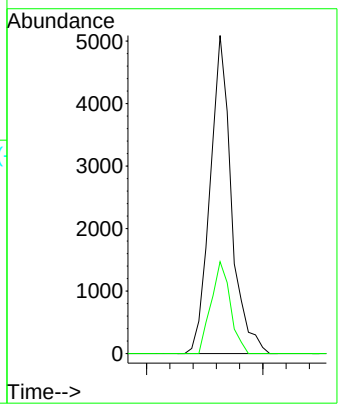
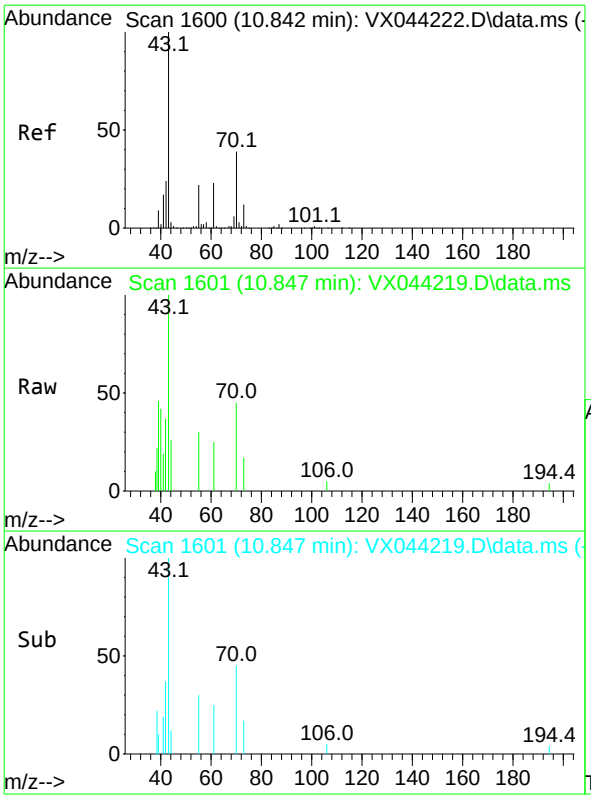


#73
Isopropylbenzene
Concen: 0.957 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 6474

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

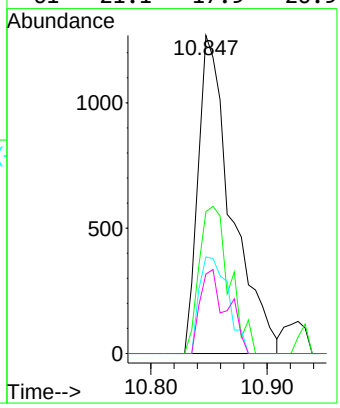




#74
N-amyl acetate
Concen: 0.811 ug/l
RT: 10.847 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2536

Ion	Ratio	Lower	Upper
43	100		
70	41.9	31.9	47.9
55	26.0	17.9	26.9
61	21.1	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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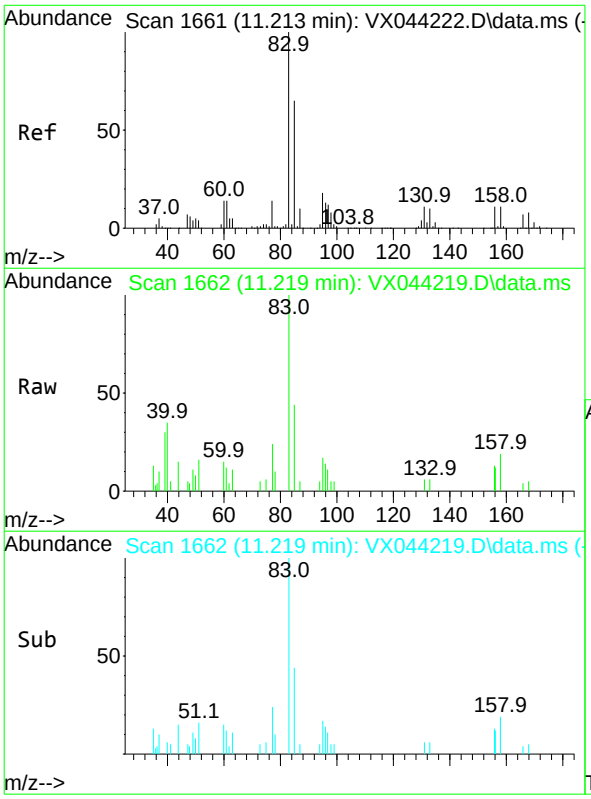
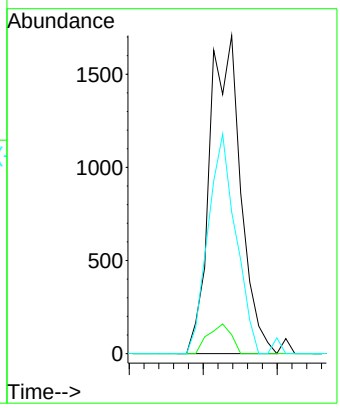
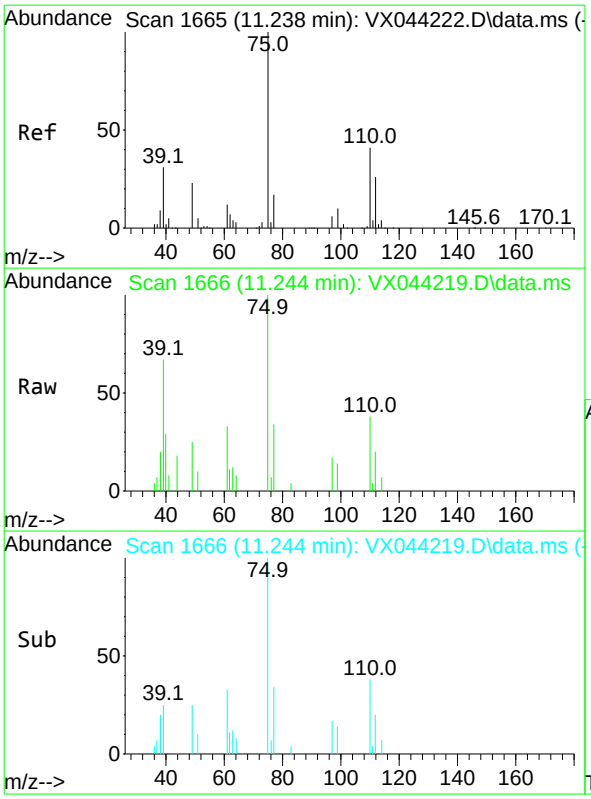


#75
1,1,2-Tetrachloroethane
Concen: 1.061 ug/l
RT: 11.219 min Scan# 1662
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 2491

Ion	Ratio	Lower	Upper
83	100		
131	6.9	5.1	15.4
85	61.8	32.5	97.4

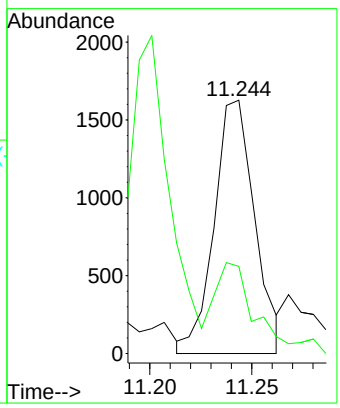




#76
1,2,3-Trichloropropane
Concen: 1.121 ug/l m
RT: 11.244 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2248

Ion	Ratio	Lower	Upper
75	100		
77	37.4	20.9	62.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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Reviewed By :John Carlone 12/12/2024
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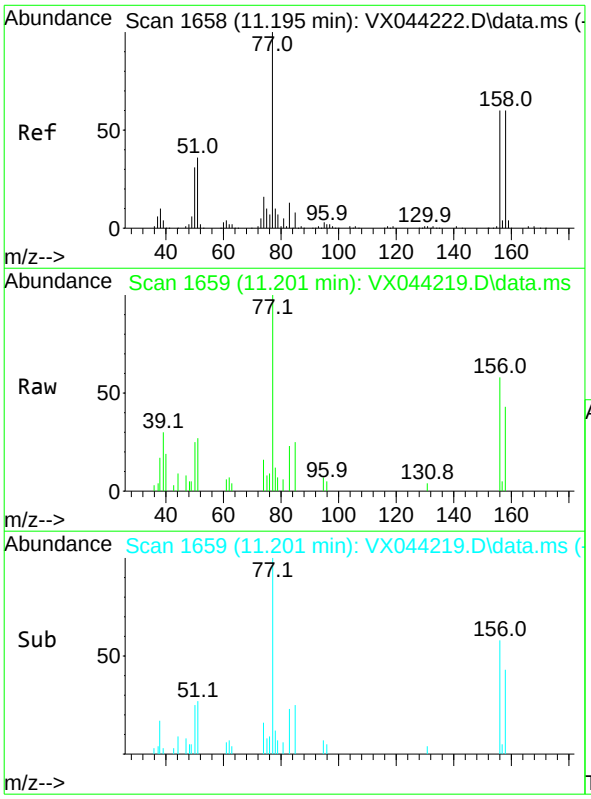
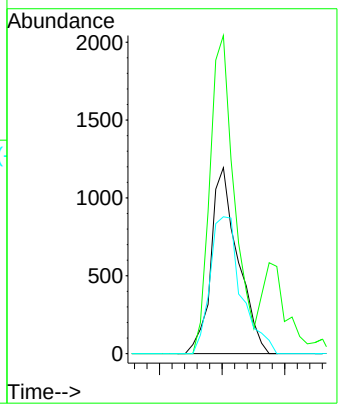
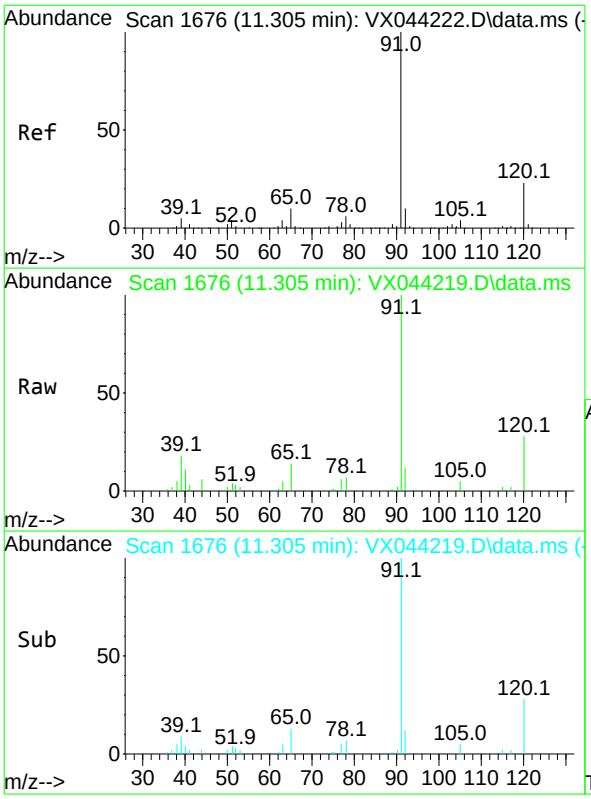


#77
Bromobenzene
Concen: 1.087 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:156 Resp: 1783

Ion	Ratio	Lower	Upper
156	100		
77	155.1	82.6	247.8
158	85.2	48.8	146.4

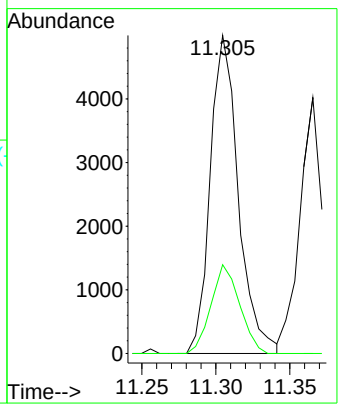




#78
n-propylbenzene
Concen: 0.884 ug/l
RT: 11.305 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 6606

Ion	Ratio	Lower	Upper
91	100		
120	28.4	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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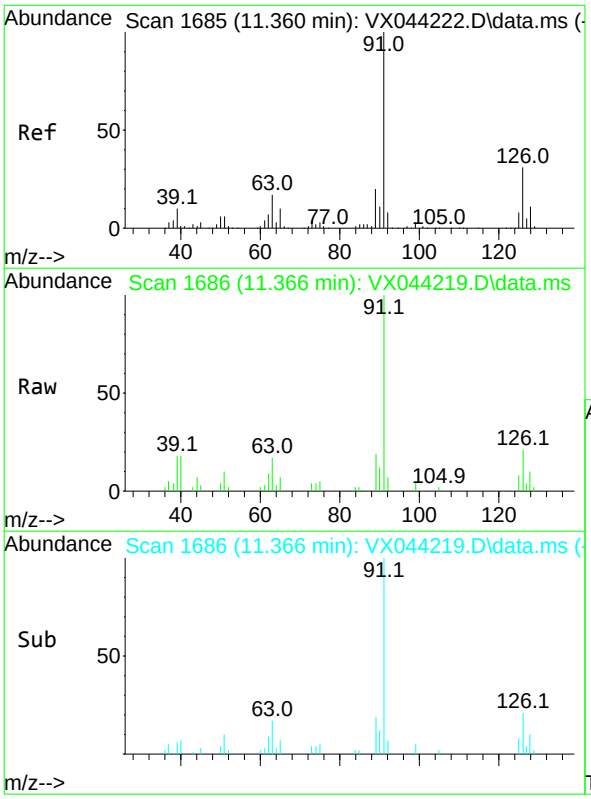
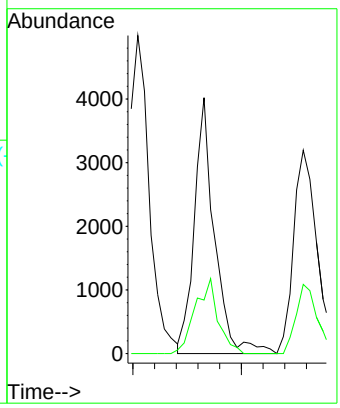
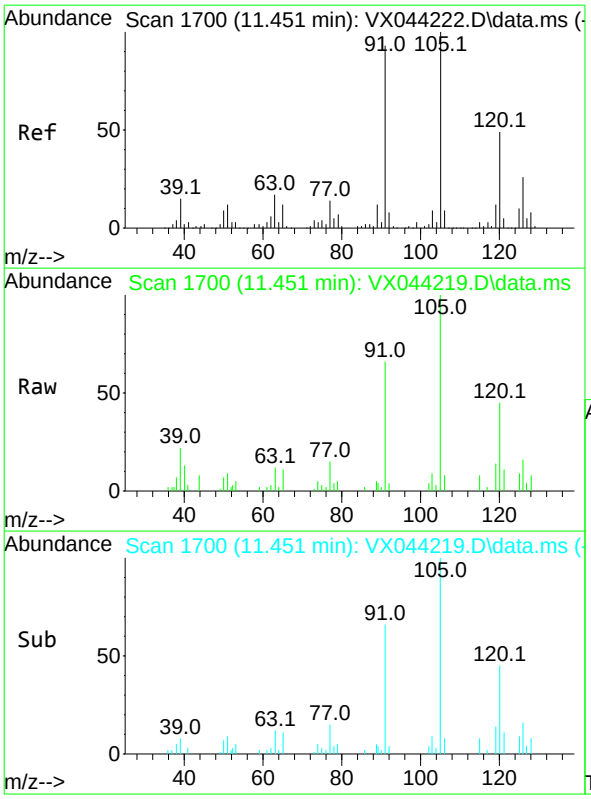


#79
2-Chlorotoluene
Concen: 1.075 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 5194

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.1

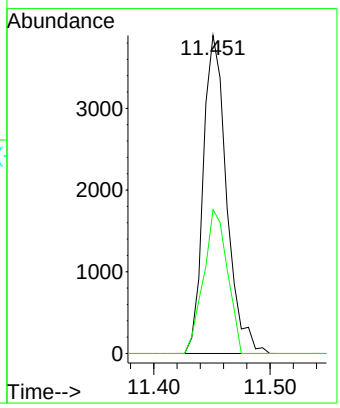




#80
1,3,5-Trimethylbenzene
Concen: 0.966 ug/l
RT: 11.451 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 5417

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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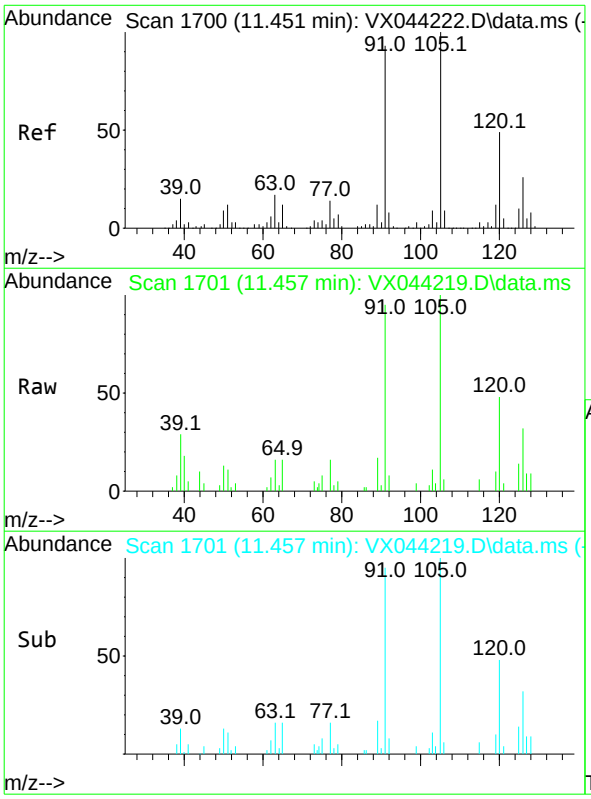
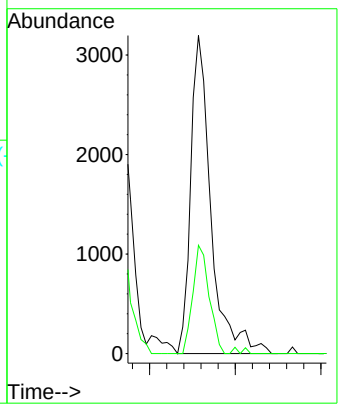
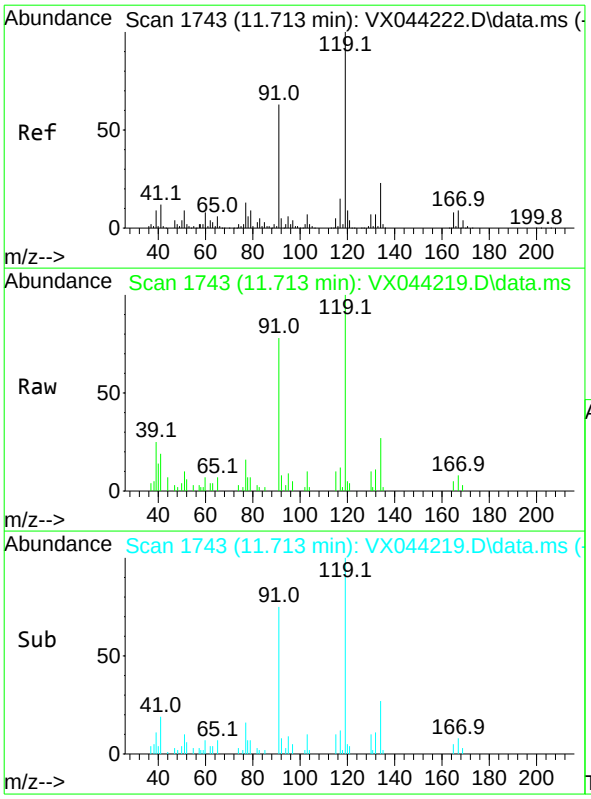


#82
4-Chlorotoluene
Concen: 0.978 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 5236

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.5	43.5

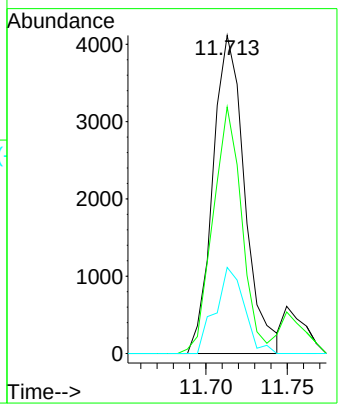




#83
tert-Butylbenzene
Concen: 1.011 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:119 Resp: 5601

Ion	Ratio	Lower	Upper
119	100		
91	70.2	30.9	92.5
134	24.5	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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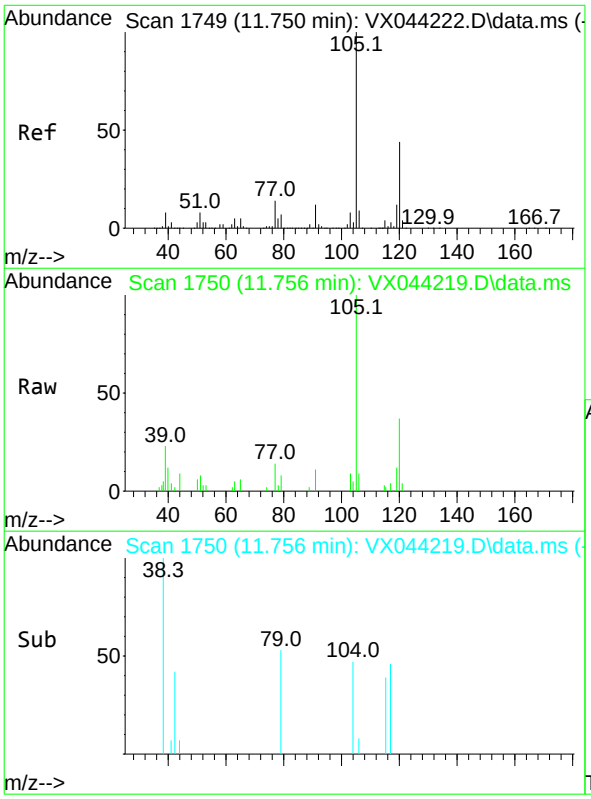
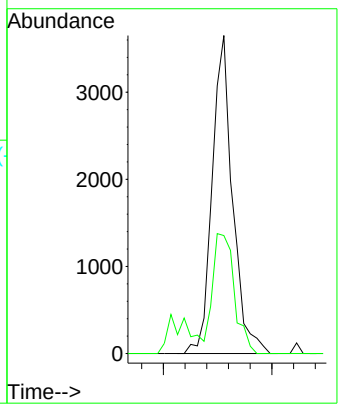
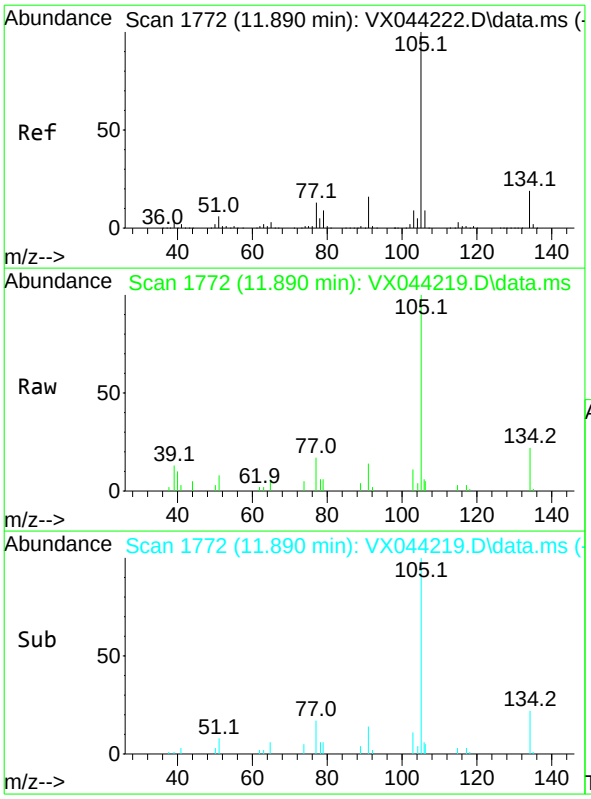


#84
1,2,4-Trimethylbenzene
Concen: 0.866 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 4769

Ion	Ratio	Lower	Upper
105	100		
120	40.0	21.7	65.1

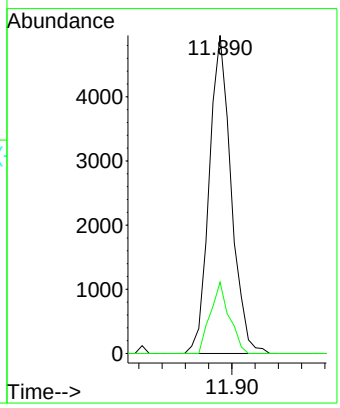




#85
sec-Butylbenzene
Concen: 0.966 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 6500

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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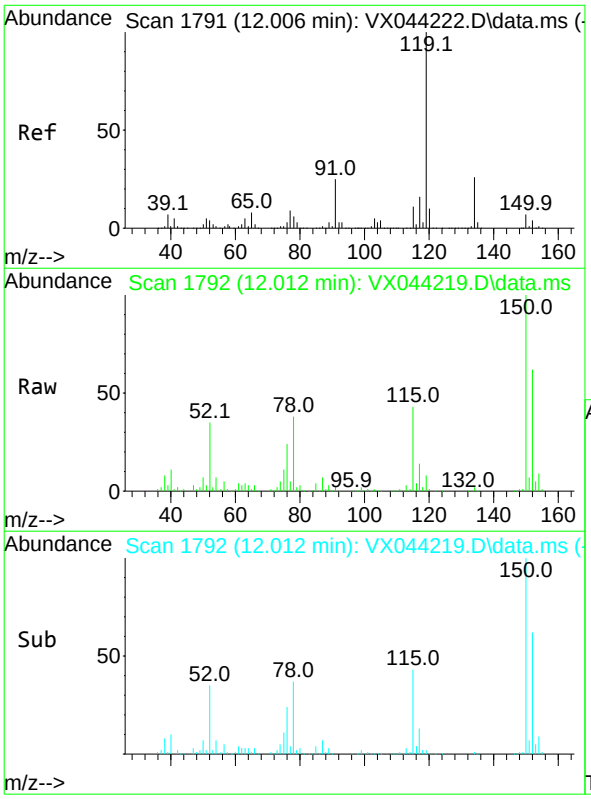
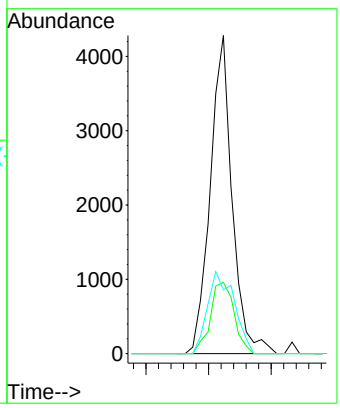
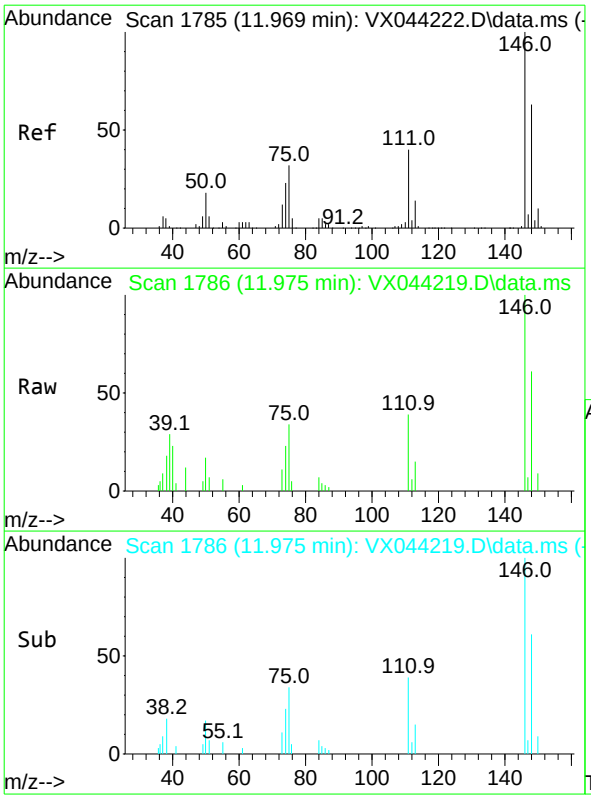


#86
p-Isopropyltoluene
Concen: 0.930 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:119 Resp: 5210

Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.8	38.4
91	31.2	13.0	39.0

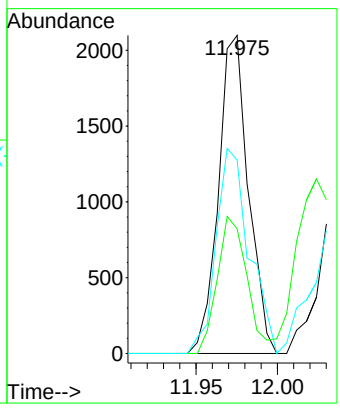




#87
1,3-Dichlorobenzene
Concen: 0.937 ug/l
RT: 11.975 min Scan# 17
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:146 Resp: 2684

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	71.6	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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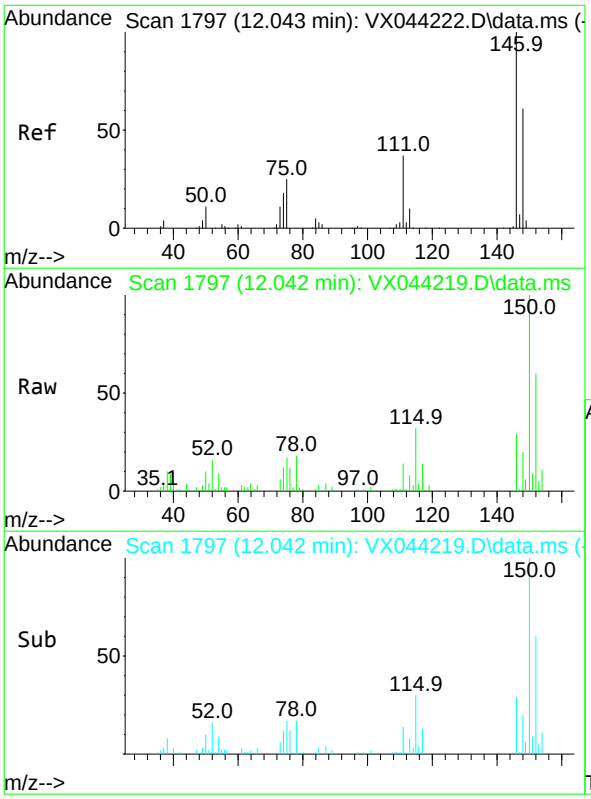
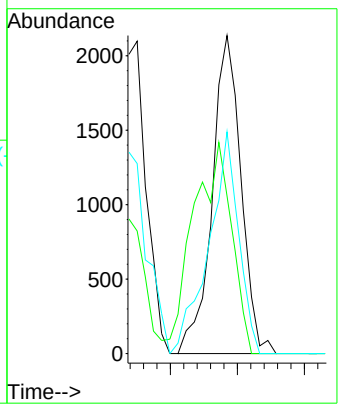
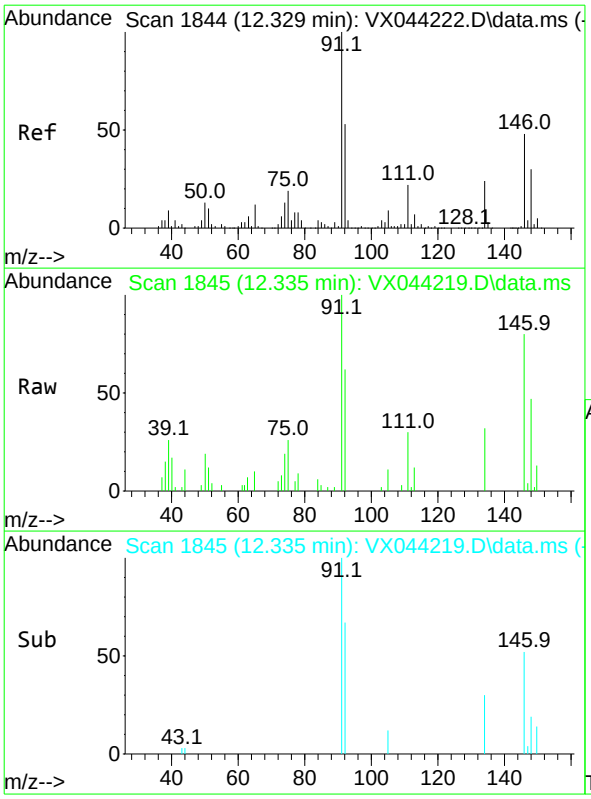


#88
1,4-Dichlorobenzene
Concen: 1.087 ug/l m
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:146 Resp: 3200

Ion	Ratio	Lower	Upper
146	100		
111	35.7	21.0	63.0
148	60.1	32.3	96.8

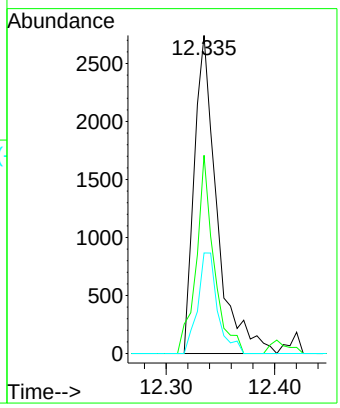




#89
n-Butylbenzene
Concen: 0.844 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 3973

Ion	Ratio	Lower	Upper
91	100		
92	48.5	26.6	79.7
134	27.8	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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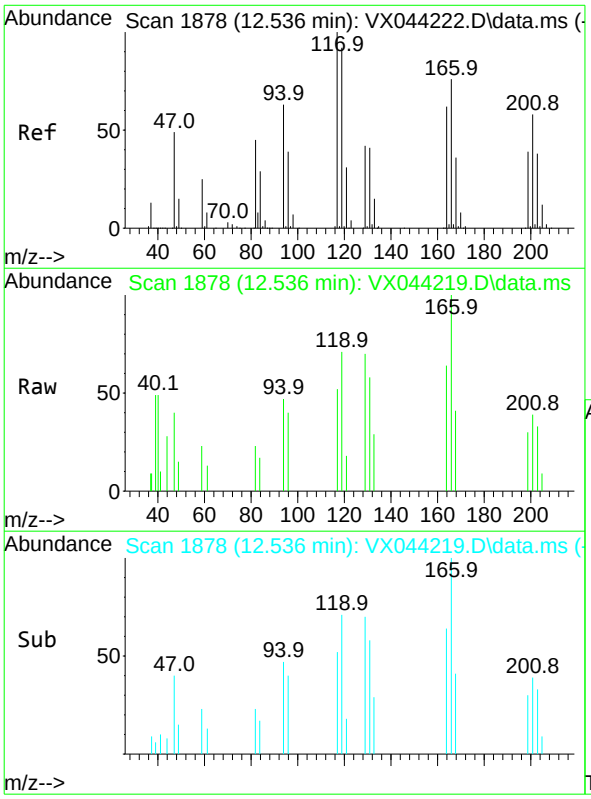
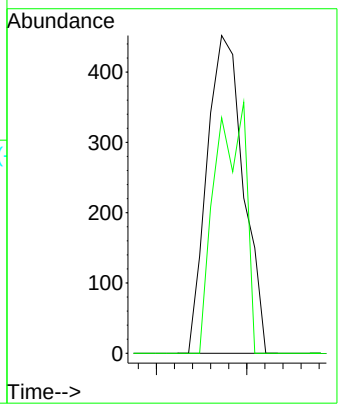
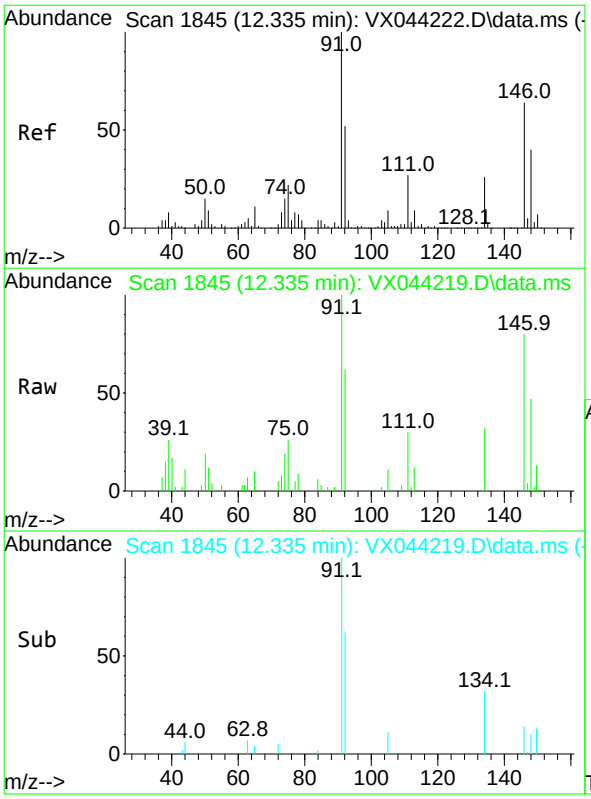


#90
Hexachloroethane
Concen: 0.773 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 632

Ion	Ratio	Lower	Upper
117	100		
201	66.9	31.4	94.2

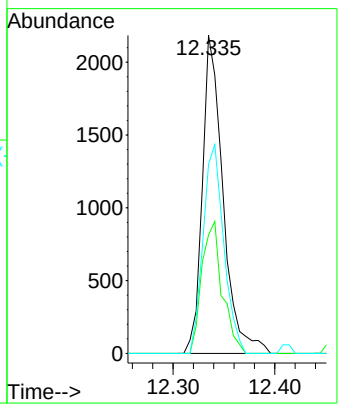




#91
1,2-Dichlorobenzene
Concen: 1.036 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:146 Resp: 3082

Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.4	64.3
148	65.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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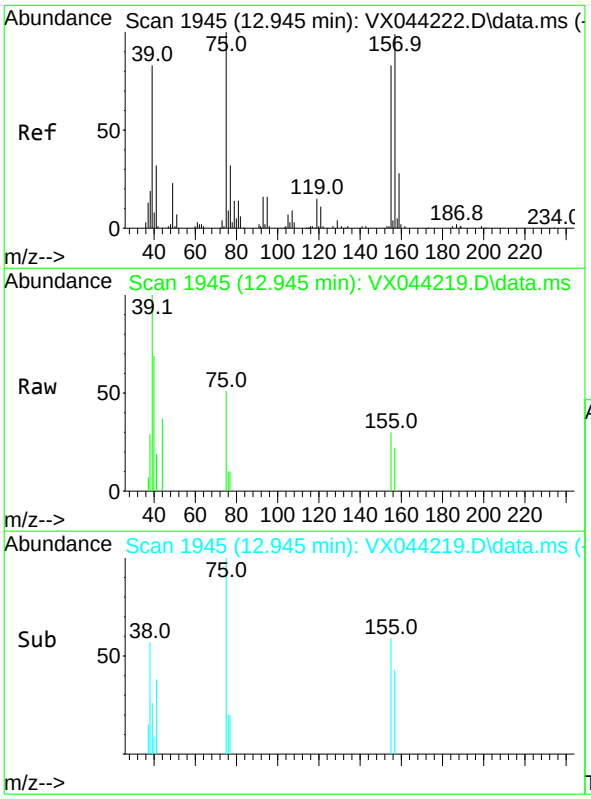
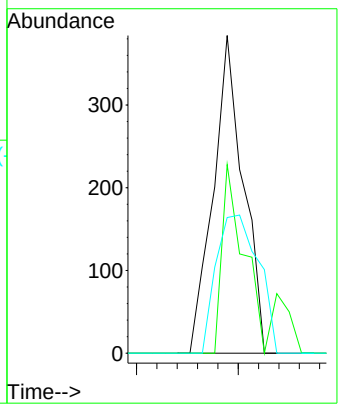
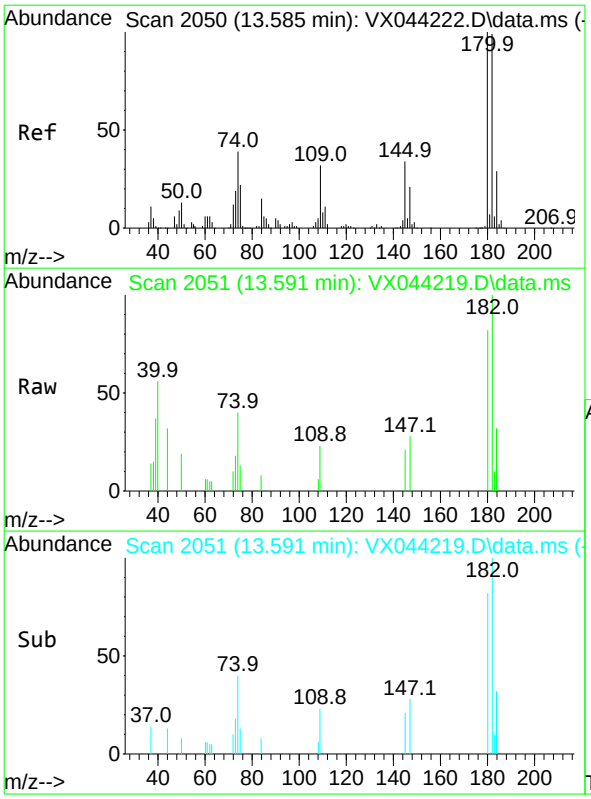


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.860 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 392

Ion	Ratio	Lower	Upper
75	100		
155	54.6	38.1	114.3
157	61.5	47.2	141.6

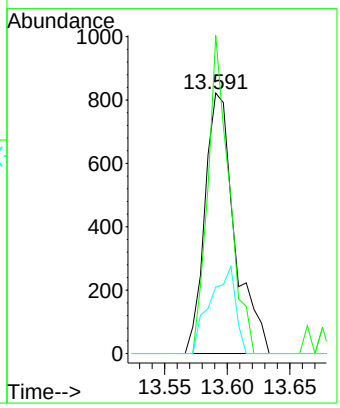




#93
1,2,4-Trichlorobenzene
Concen: 0.835 ug/l
RT: 13.591 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:180 Resp: 1361

Ion	Ratio	Lower	Upper
180	100		
182	88.0	48.0	144.2
145	28.4	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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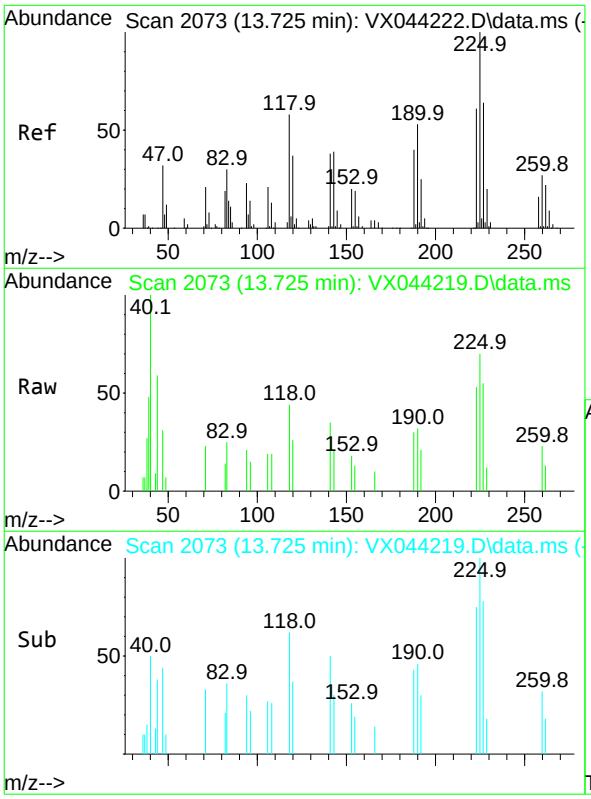
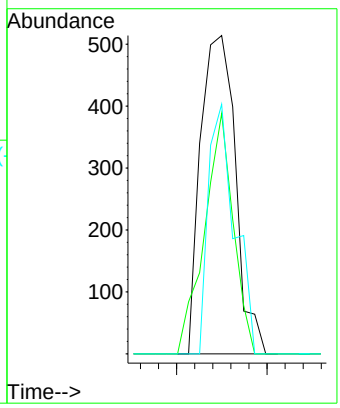
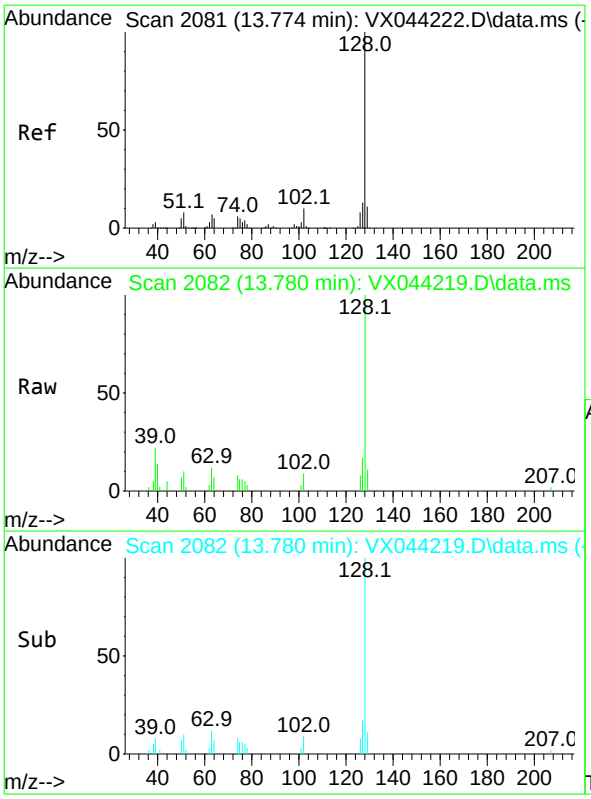


#94
Hexachlorobutadiene
Concen: 1.051 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:225 Resp: 689

Ion	Ratio	Lower	Upper
225	100		
223	62.4	30.8	92.4
227	59.4	32.1	96.3

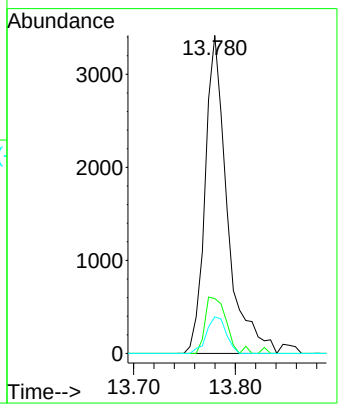




#95
Naphthalene
Concen: 0.812 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:128 Resp: 5167

Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.5	15.7#
129	10.2	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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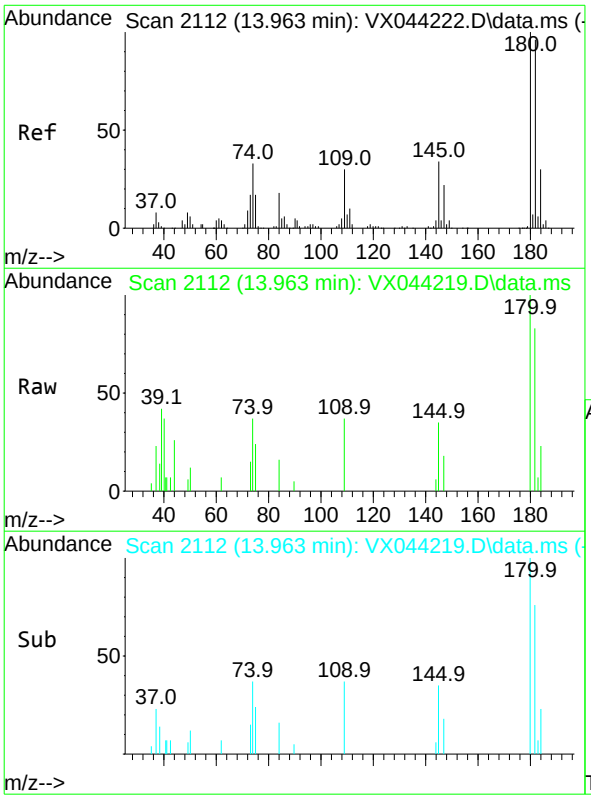
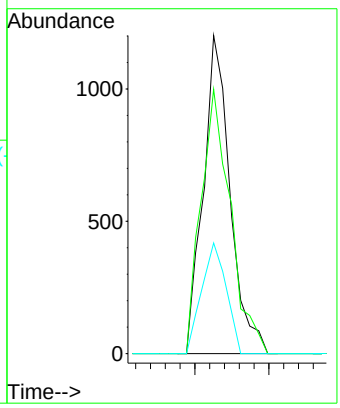
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 0.873 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:180 Resp: 1509

Ion	Ratio	Lower	Upper
180	100		
182	91.3	48.0	144.0
145	31.9	17.7	53.1



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	139609	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	258881	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	13043	5.328	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 10.660%#			
35) Dibromofluoromethane	5.385	113	9145	5.100	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.200%#			
50) Toluene-d8	8.647	98	29732	4.915	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 9.840%#			
62) 4-Bromofluorobenzene	11.079	95	10101	4.779	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.560%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	10452	4.842	ug/l	91
3) Chloromethane	1.294	50	10429	5.052	ug/l	95
4) Vinyl Chloride	1.374	62	11031	5.129	ug/l	98
5) Bromomethane	1.593	94	8237	5.399	ug/l	92
6) Chloroethane	1.660	64	7253	5.416	ug/l	96
7) Trichlorofluoromethane	1.868	101	21207	5.037	ug/l	91
8) Diethyl Ether	2.136	74	7199	5.009	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	8766	5.145	ug/l	97
10) Methyl Iodide	2.447	142	11066	4.928	ug/l	97
11) Tert butyl alcohol	2.995	59	7159m	20.785	ug/l	
12) 1,1-Dichloroethene	2.306	96	7822	4.999	ug/l	95
13) Acrolein	2.239	56	12521	25.073	ug/l	100
14) Allyl chloride	2.654	41	12490	4.792	ug/l	94
15) Acrylonitrile	3.069	53	23276	24.357	ug/l	99
16) Acetone	2.392	43	24645	24.696	ug/l	93
17) Carbon Disulfide	2.495	76	12169	4.091	ug/l	99
18) Methyl Acetate	2.709	43	12412	4.824	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	30546	5.002	ug/l	94
20) Methylene Chloride	2.782	84	9466	5.050	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	7768	4.671	ug/l	97
22) Diisopropyl ether	3.764	45	29518	5.029	ug/l #	73
23) Vinyl Acetate	3.721	43	109670	22.983	ug/l	96
24) 1,1-Dichloroethane	3.605	63	16370	5.004	ug/l	96
25) 2-Butanone	4.574	43	34245	24.138	ug/l	97
26) 2,2-Dichloropropane	4.471	77	12514	4.708	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	10292	4.873	ug/l	97
28) Bromochloromethane	4.897	49	8049	5.017	ug/l #	93
29) Tetrahydrofuran	5.019	42	24307	26.693	ug/l	94
30) Chloroform	5.093	83	18319	4.984	ug/l	93
31) Cyclohexane	5.464	56	12995	4.919	ug/l	89
32) 1,1,1-Trichloroethane	5.373	97	14231	4.664	ug/l	96
36) 1,1-Dichloropropene	5.690	75	11455	4.942	ug/l	94
37) Ethyl Acetate	4.727	43	13265	4.630	ug/l	97
38) Carbon Tetrachloride	5.666	117	11476	4.599	ug/l	96
39) Methylcyclohexane	7.373	83	13019	4.699	ug/l #	85
40) Benzene	6.037	78	35018	4.976	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.946	41	7585	4.986	ug/l		93
42) 1,2-Dichloroethane	6.092	62	14419	4.974	ug/l		99
43) Isopropyl Acetate	6.354	43	22098	4.935	ug/l		98
44) Trichloroethene	7.123	130	8405	4.790	ug/l		100
45) 1,2-Dichloropropane	7.434	63	8932	4.968	ug/l		94
46) Dibromomethane	7.586	93	6915	4.958	ug/l		99
47) Bromodichloromethane	7.824	83	10646	4.420	ug/l	#	98
48) Methyl methacrylate	7.702	41	9586	4.410	ug/l		97
49) 1,4-Dioxane	7.671	88	3545m	95.429	ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	71285	24.759	ug/l		98
52) Toluene	8.720	92	21486	4.862	ug/l		99
53) t-1,3-Dichloropropene	8.982	75	9232	4.665	ug/l		100
54) cis-1,3-Dichloropropene	8.372	75	11404	4.348	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	8590	4.893	ug/l		97
56) Ethyl methacrylate	9.122	69	11854	4.277	ug/l	#	89
57) 1,3-Dichloropropane	9.311	76	15352	5.024	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.244	63	34738	24.852	ug/l		99
59) 2-Hexanone	9.433	43	50003	23.994	ug/l		96
60) Dibromochloromethane	9.519	129	6411	4.738	ug/l		98
61) 1,2-Dibromoethane	9.610	107	8330	4.662	ug/l		97
64) Tetrachloroethene	9.275	164	7710	5.334	ug/l	#	87
65) Chlorobenzene	10.079	112	23268	4.986	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	6647	4.432	ug/l		94
67) Ethyl Benzene	10.195	91	39326	4.877	ug/l		97
68) m/p-Xylenes	10.299	106	28758	9.720	ug/l		98
69) o-Xylene	10.640	106	14864	4.965	ug/l		97
70) Styrene	10.659	104	22191	4.624	ug/l		98
71) Bromoform	10.799	173	3775	5.118	ug/l	#	98
73) Isopropylbenzene	10.963	105	37843	5.194	ug/l		98
74) N-amyl acetate	10.842	43	15418	4.579	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	12848	5.077	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	10236m	4.740	ug/l		
77) Bromobenzene	11.201	156	8892	5.033	ug/l		99
78) n-propylbenzene	11.305	91	40574	5.038	ug/l		96
79) 2-Chlorotoluene	11.366	91	27096	5.203	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	30665	5.075	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.024	75	2249	8.273	ug/l	#	62
82) 4-Chlorotoluene	11.457	91	29039	5.035	ug/l		99
83) tert-Butylbenzene	11.713	119	29283	4.904	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	30970	5.219	ug/l		99
85) sec-Butylbenzene	11.890	105	35670	4.921	ug/l		98
86) p-Isopropyltoluene	12.006	119	29132	4.828	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	15553	5.039	ug/l		96
88) 1,4-Dichlorobenzene	12.043	146	15609	4.920	ug/l		95
89) n-Butylbenzene	12.335	91	22719	4.478	ug/l		98
90) Hexachloroethane	12.536	117	3765	4.275	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	15858	4.949	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2154	4.385	ug/l		81
93) 1,2,4-Trichlorobenzene	13.591	180	7867	4.478	ug/l		96
94) Hexachlorobutadiene	13.725	225	3321	4.700	ug/l		93
95) Naphthalene	13.780	128	31842	4.643	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	8422	4.520	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
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 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

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

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

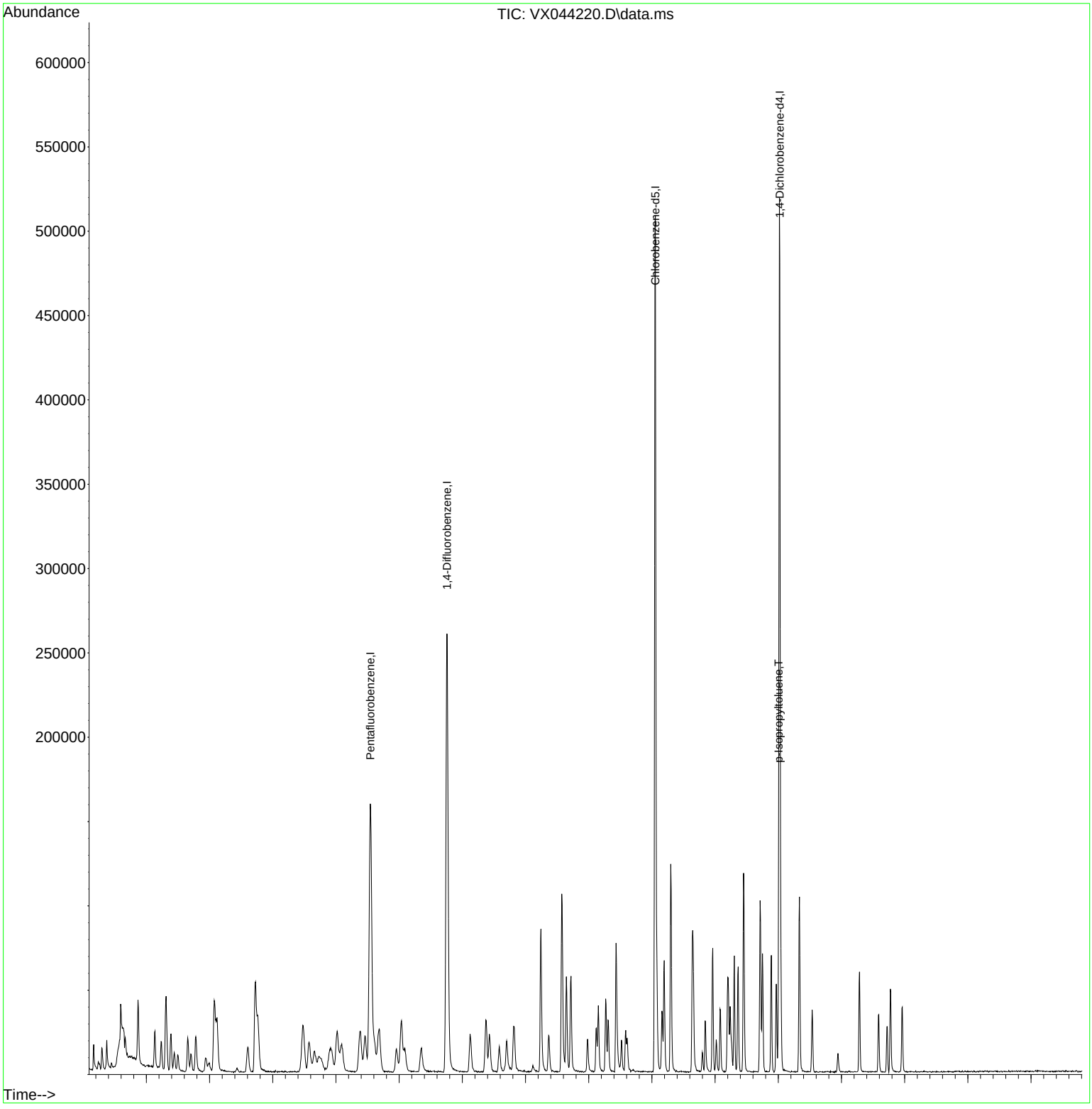
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

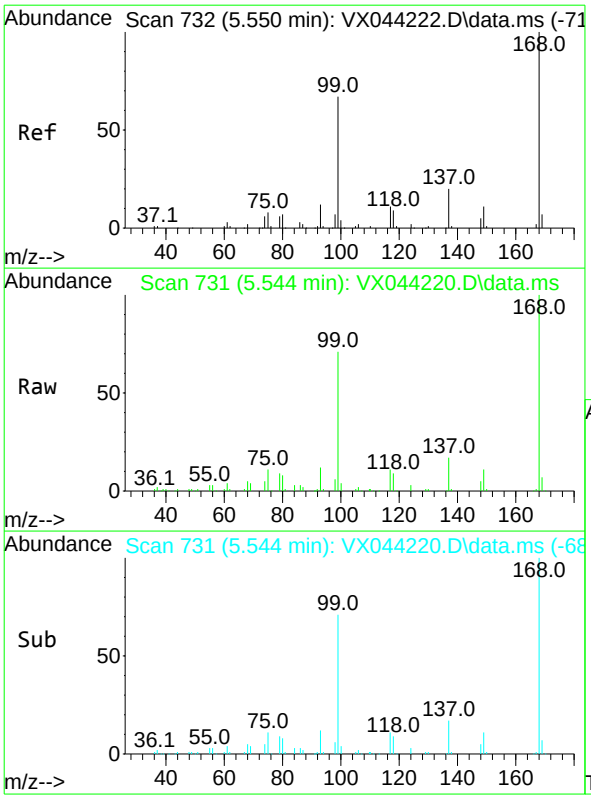
Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

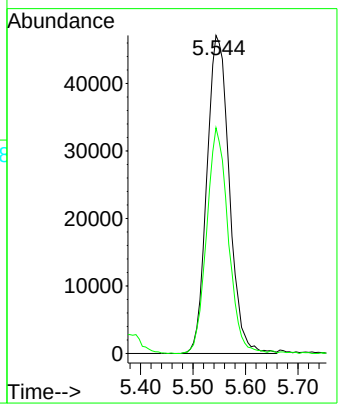




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:168 Resp: 139609

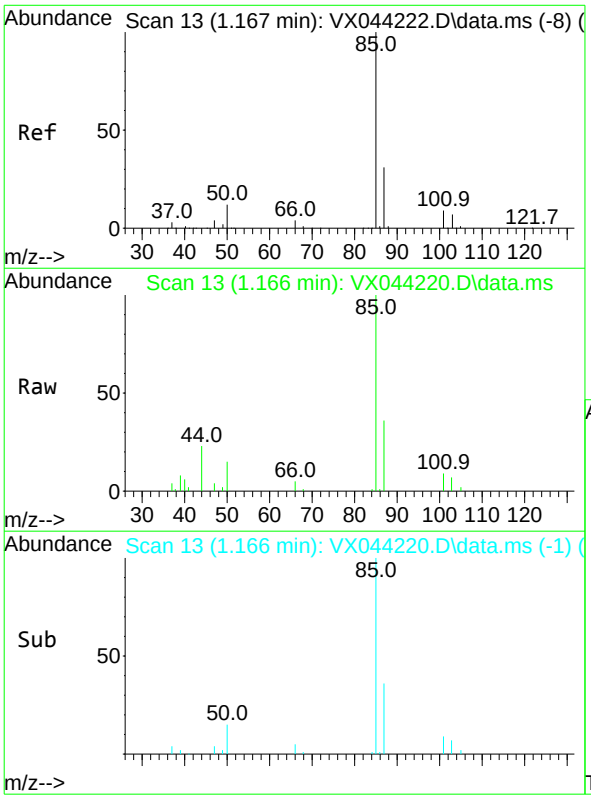
Ion	Ratio	Lower	Upper
168	100		
99	71.0	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

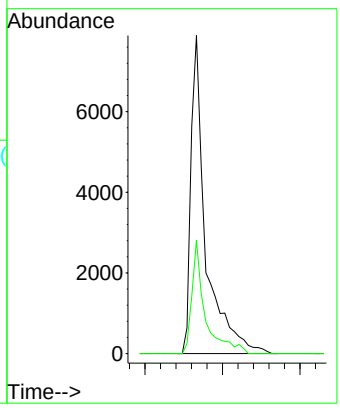
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

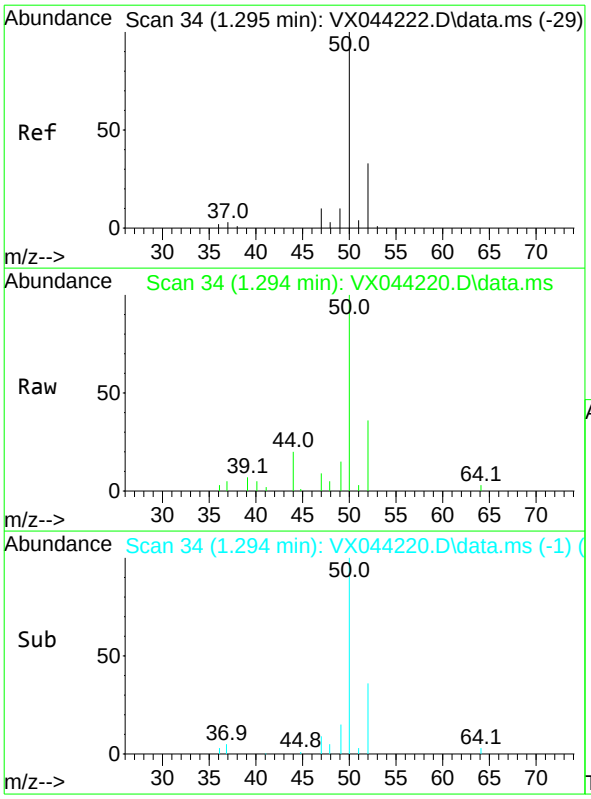


#2
Dichlorodifluoromethane
Concen: 4.842 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 85 Resp: 10452

Ion	Ratio	Lower	Upper
85	100		
87	35.6	15.4	46.4

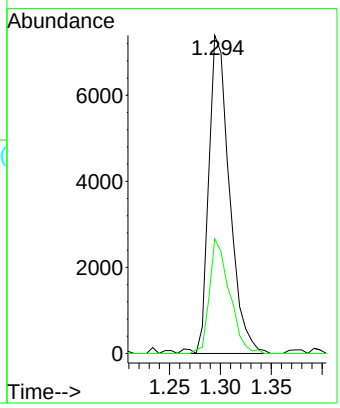




#3
Chloromethane
Concen: 5.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 50 Resp: 10429

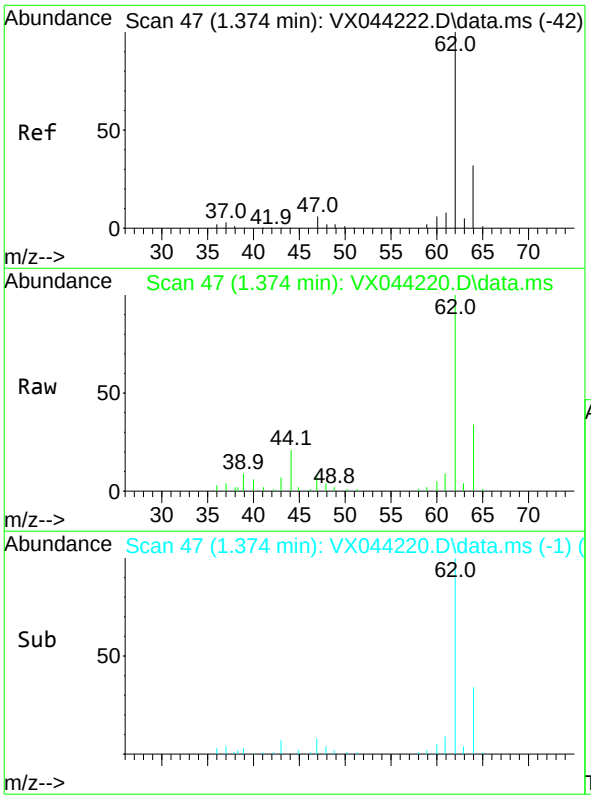
Ion	Ratio	Lower	Upper
50	100		
52	36.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

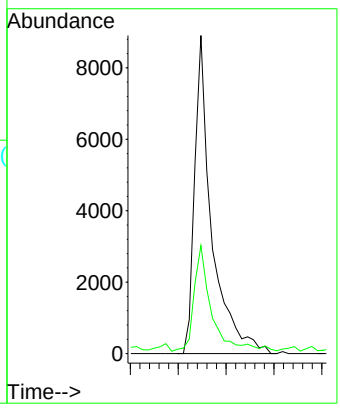
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

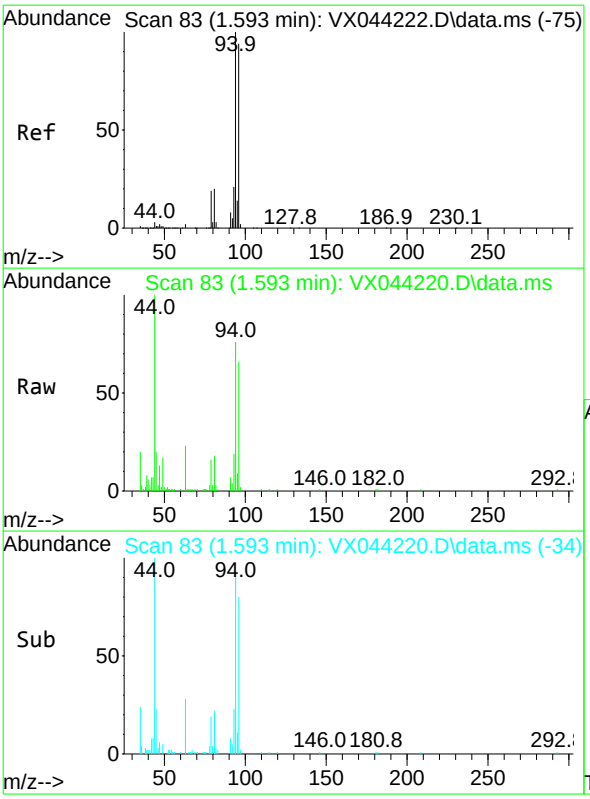


#4
Vinyl Chloride
Concen: 5.129 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 11031

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.7	38.5

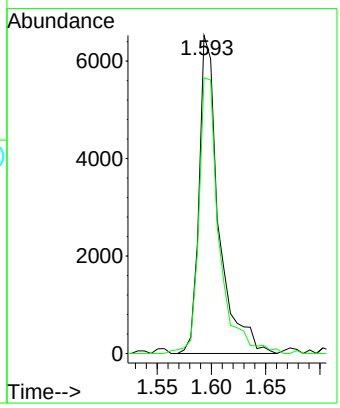




#5
Bromomethane
Concen: 5.399 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 94 Resp: 8237

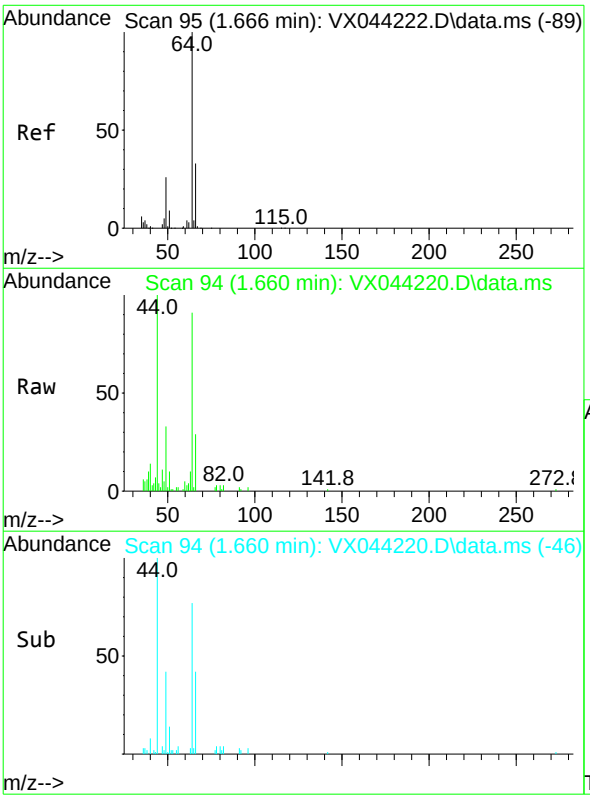
Ion	Ratio	Lower	Upper
94	100		
96	85.5	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

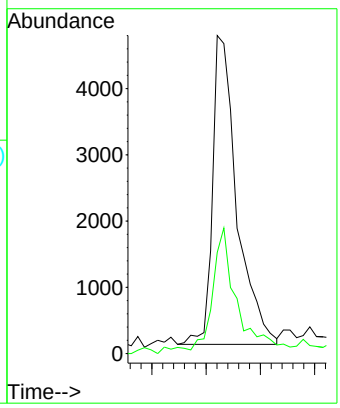
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

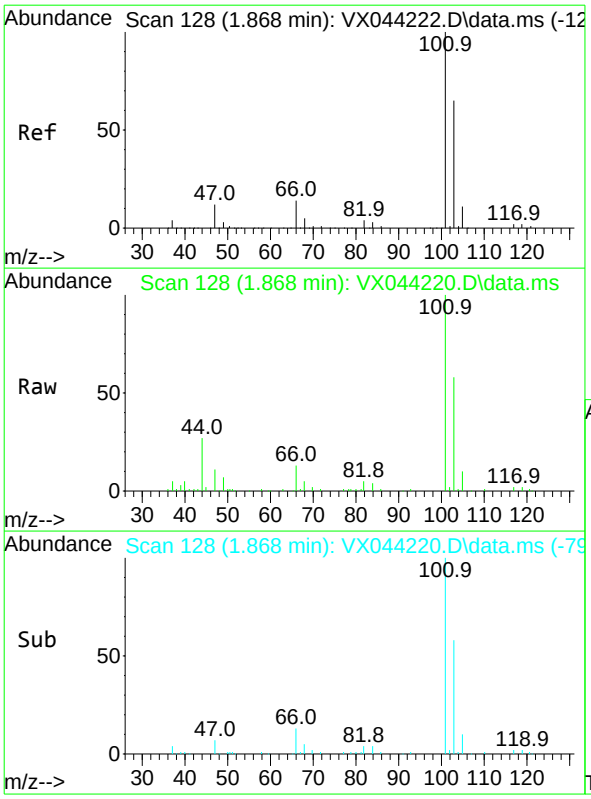


#6
Chloroethane
Concen: 5.416 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 64 Resp: 7253

Ion	Ratio	Lower	Upper
64	100		
66	30.7	26.6	39.8

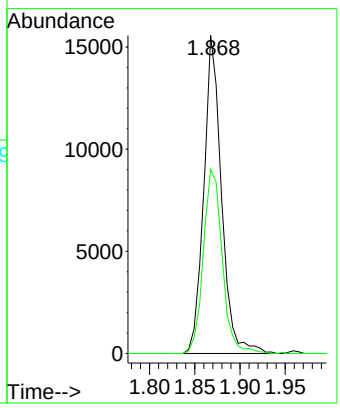




#7
Trichlorofluoromethane
Concen: 5.037 ug/l
RT: 1.868 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:101 Resp: 21207

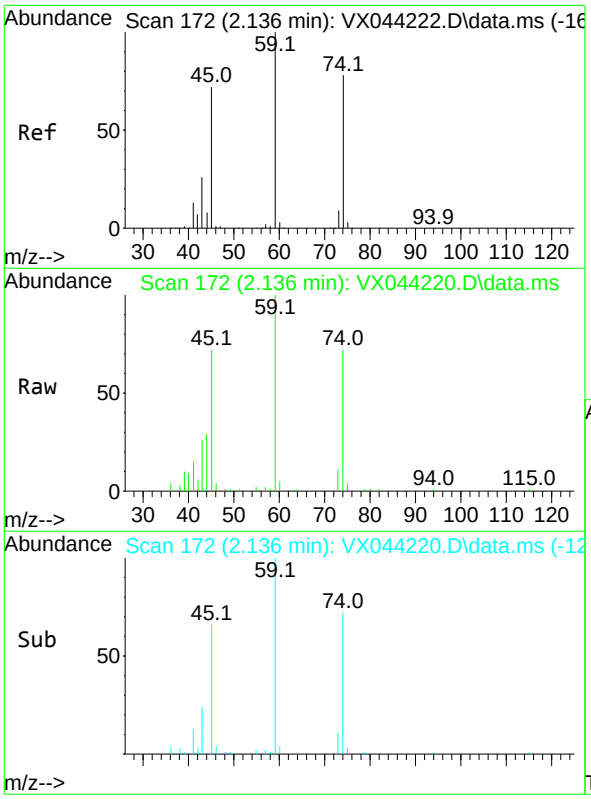
Ion	Ratio	Lower	Upper
101	100		
103	57.9	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

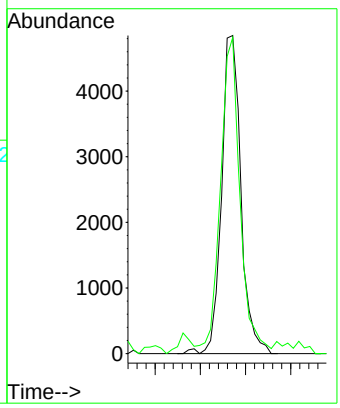
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

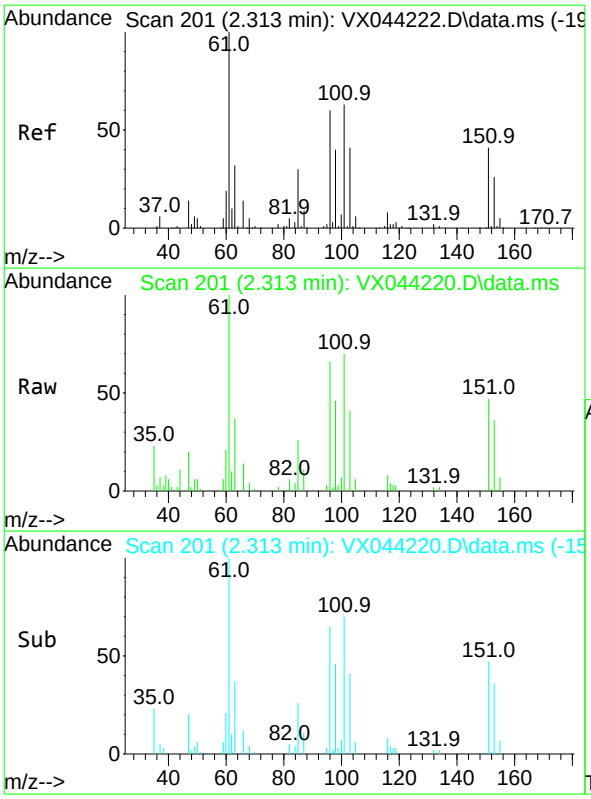


#8
Diethyl Ether
Concen: 5.009 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 74 Resp: 7199

Ion	Ratio	Lower	Upper
74	100		
45	97.0	48.4	145.0

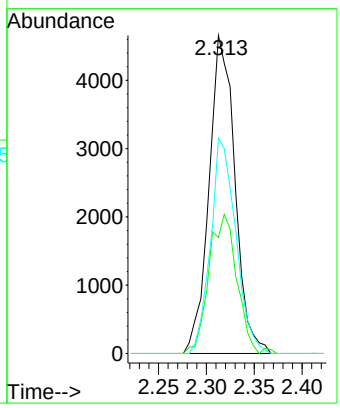




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.145 ug/l
RT: 2.313 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:101 Resp: 8766

Ion	Ratio	Lower	Upper
101	100		
85	46.7	38.5	57.7
151	66.2	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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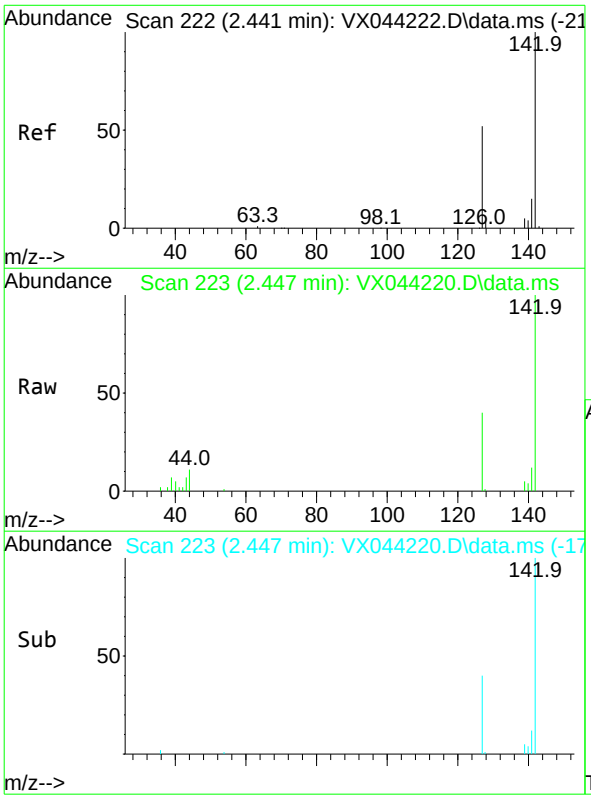
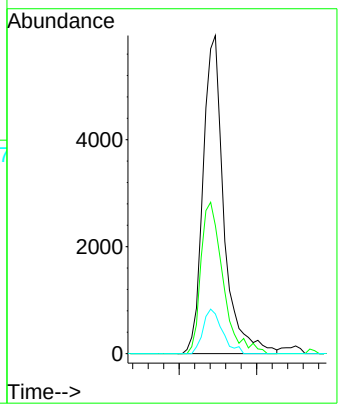
Supervised By :Mahesh Dadoda 12/12/2024

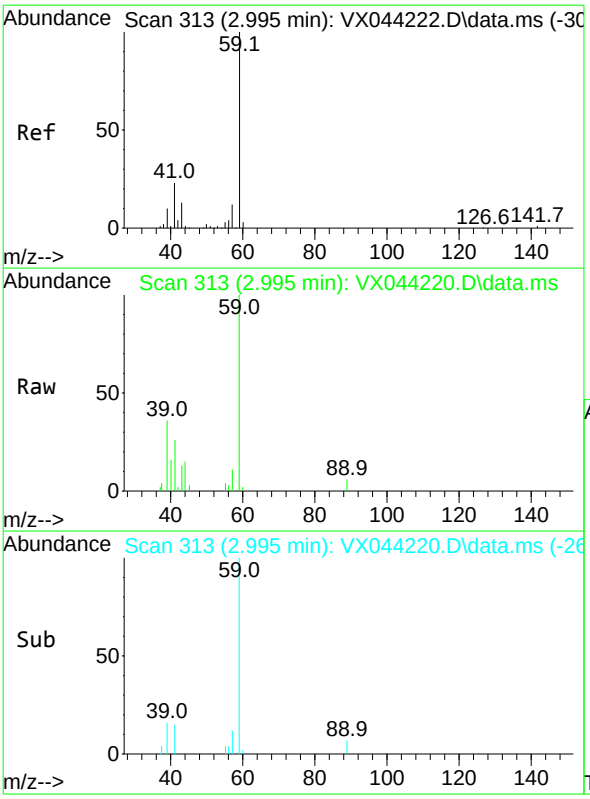


#10
Methyl Iodide
Concen: 4.928 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:142 Resp: 11066

Ion	Ratio	Lower	Upper
142	100		
127	50.4	41.8	62.8
141	12.9	11.5	17.3

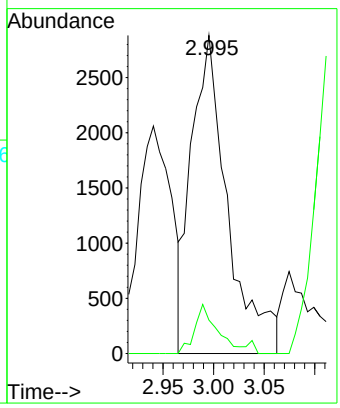




#11
Tert butyl alcohol
Concen: 20.785 ug/l m
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 59 Resp: 7159

Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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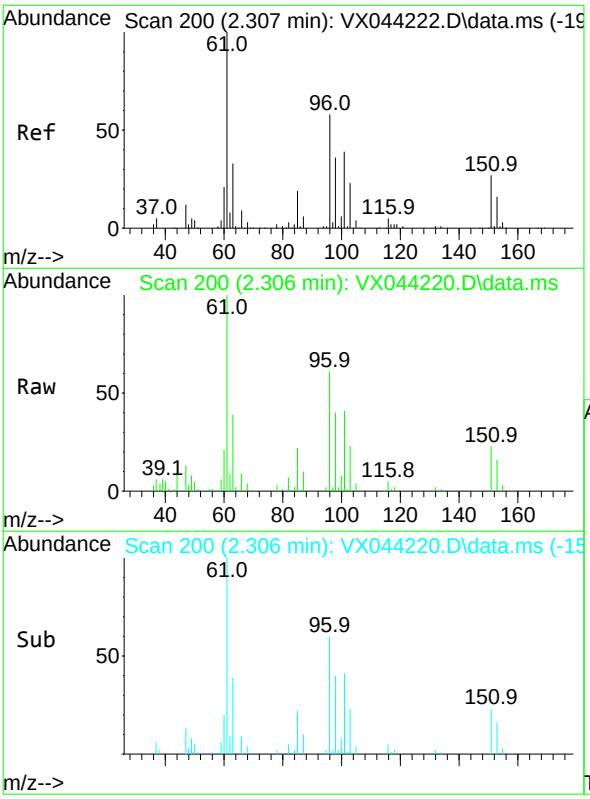
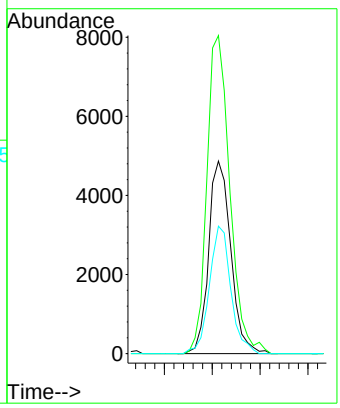
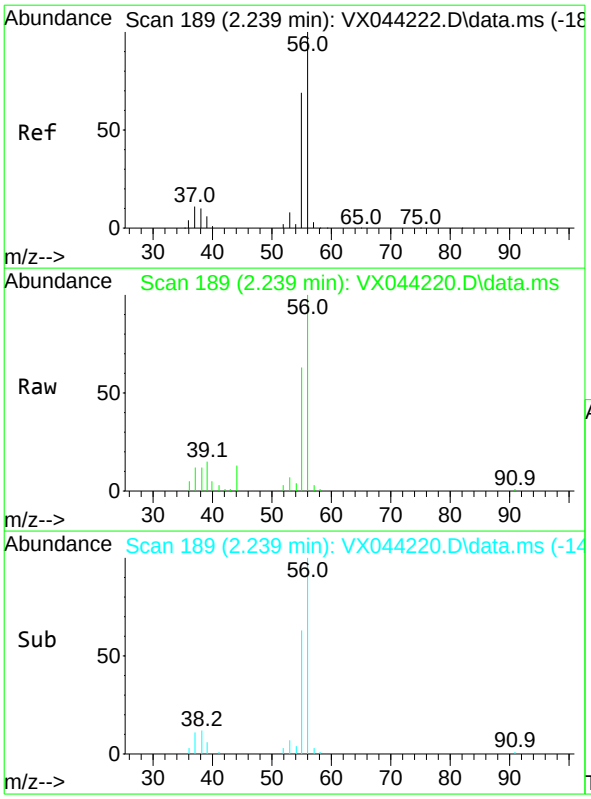


#12
1,1-Dichloroethene
Concen: 4.999 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 7822

Ion	Ratio	Lower	Upper
96	100		
61	165.2	138.0	207.0
98	66.2	50.0	75.0

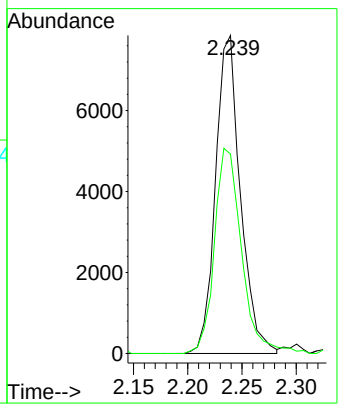




#13
Acrolein
Concen: 25.073 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 56 Resp: 12521

Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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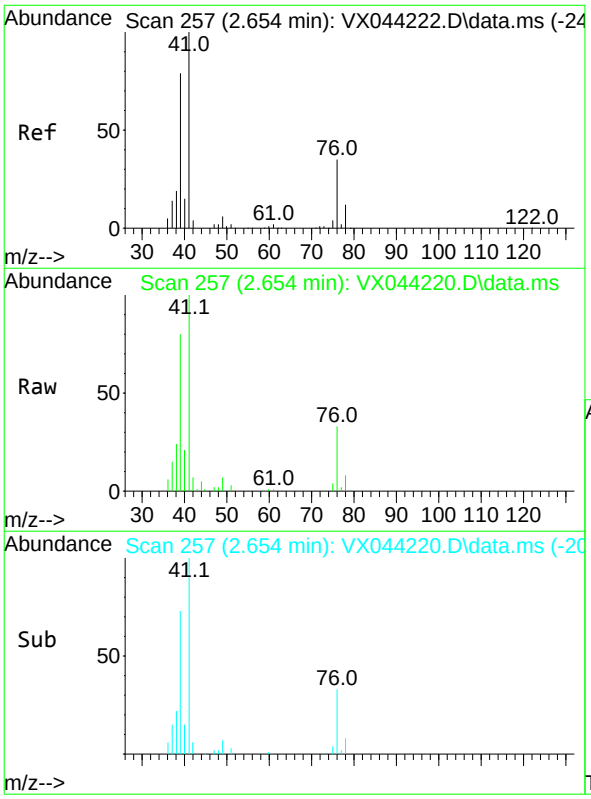
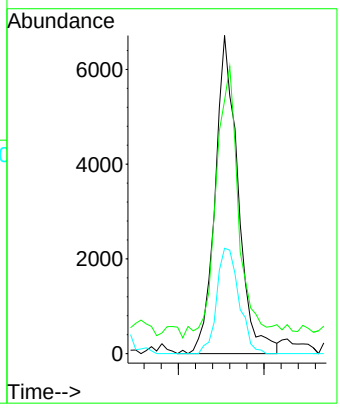
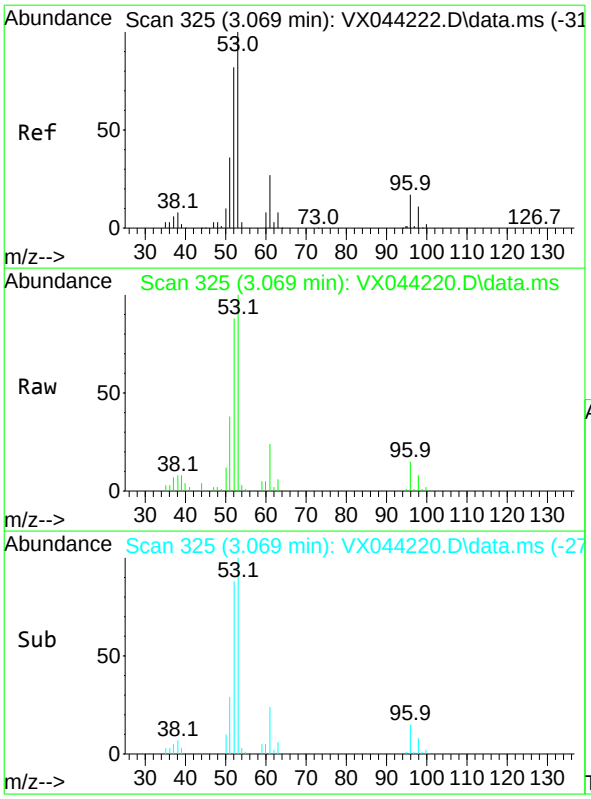


#14
Allyl chloride
Concen: 4.792 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 12490

Ion	Ratio	Lower	Upper
41	100		
39	84.0	61.9	92.9
76	32.1	27.4	41.2

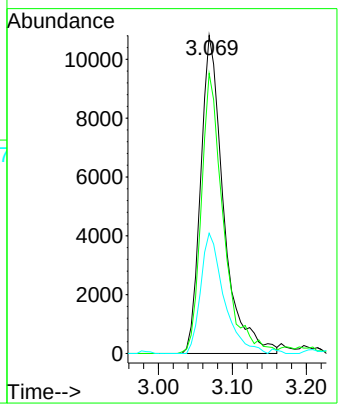




#15
Acrylonitrile
Concen: 24.357 ug/l
RT: 3.069 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 53 Resp: 23276

Ion	Ratio	Lower	Upper
53	100		
52	85.0	67.4	101.0
51	38.2	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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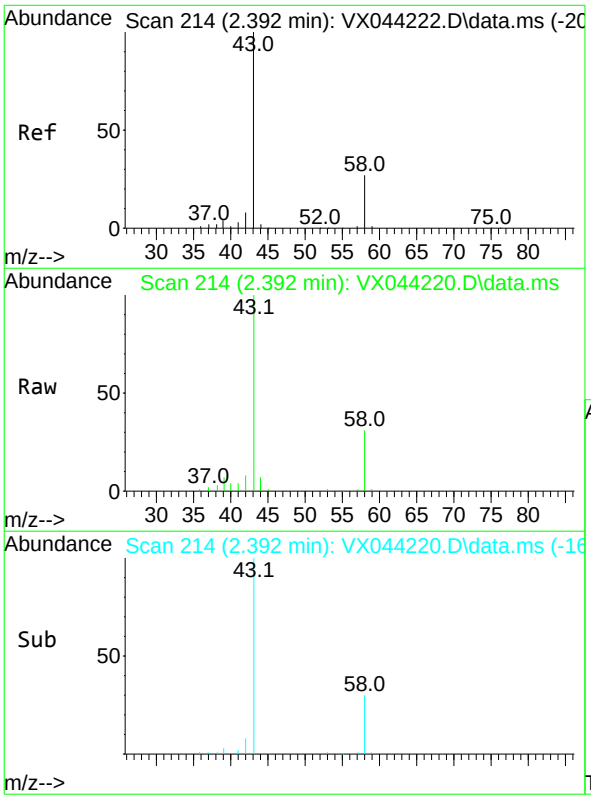
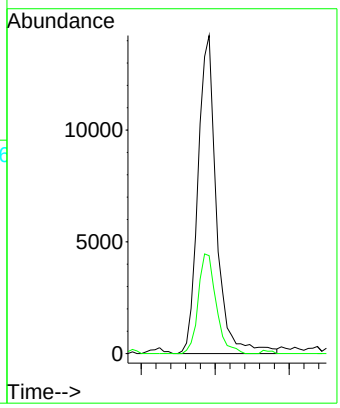
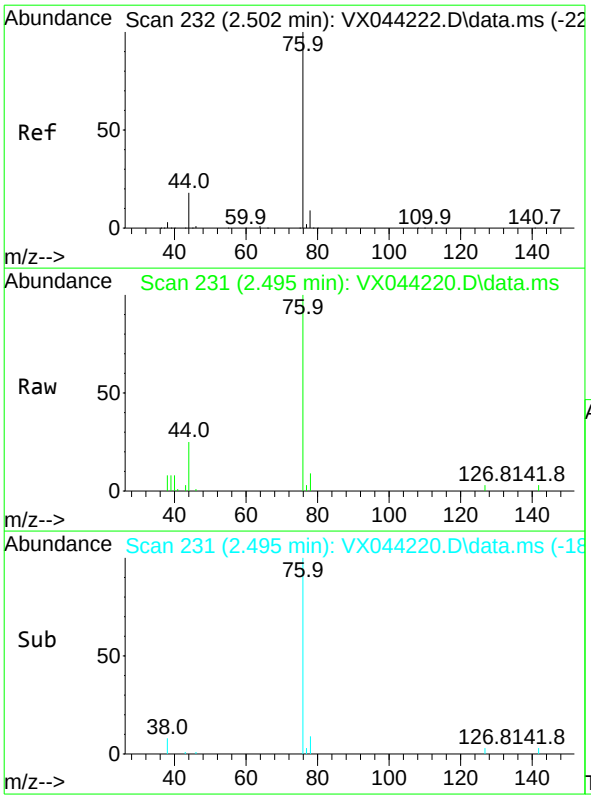


#16
Acetone
Concen: 24.696 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 24645

Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.6	32.4

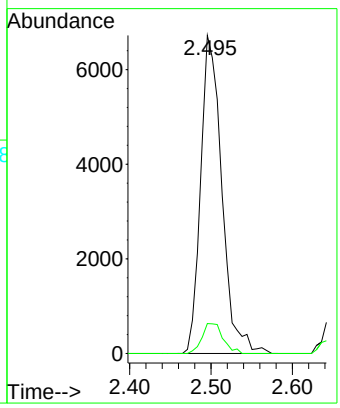




#17
Carbon Disulfide
Concen: 4.091 ug/l
RT: 2.495 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 76 Resp: 12169

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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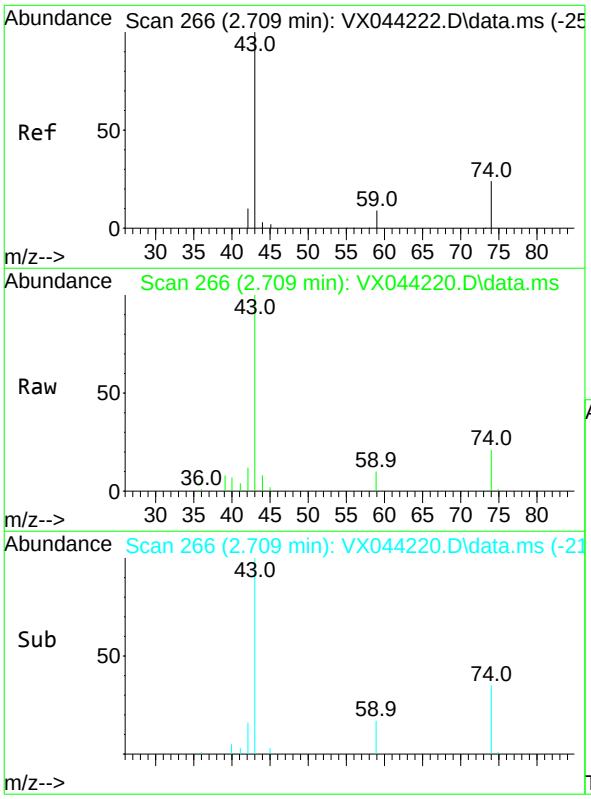
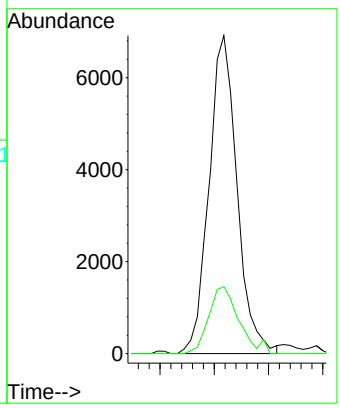
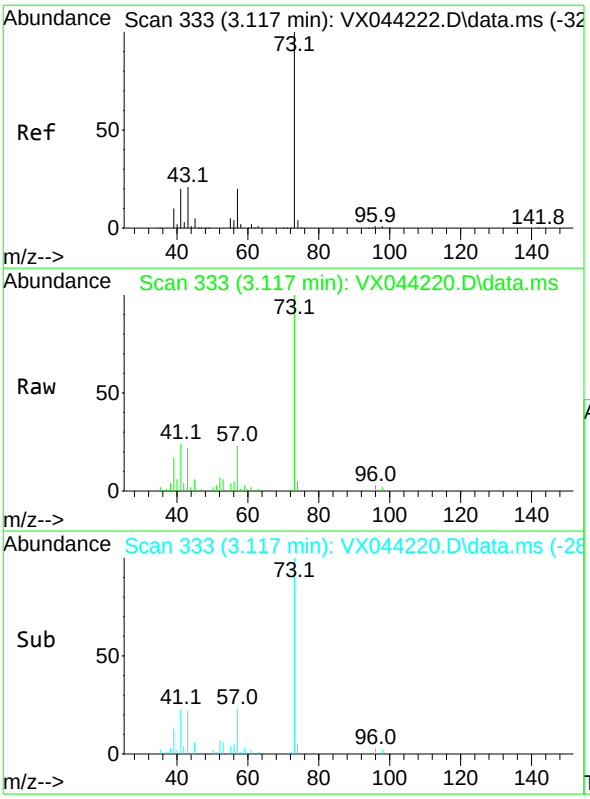


#18
Methyl Acetate
Concen: 4.824 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 12412

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.7	26.5

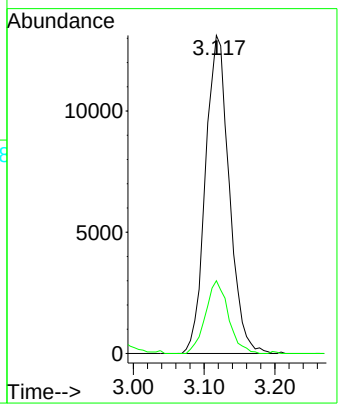




#19
Methyl tert-butyl Ether
Concen: 5.002 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 73 Resp: 30546

Ion	Ratio	Lower	Upper
73	100		
57	22.9	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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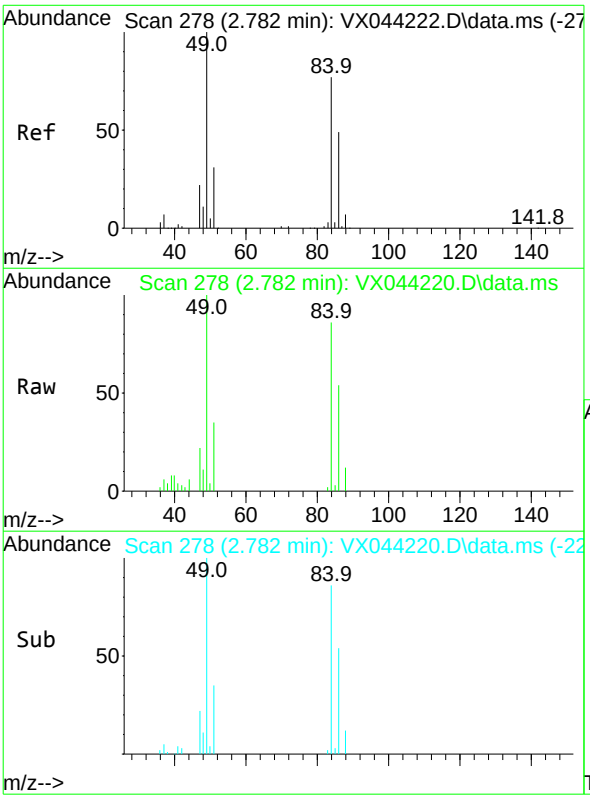
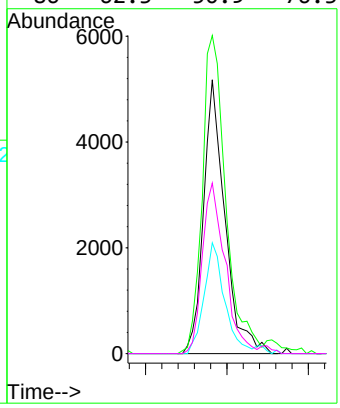
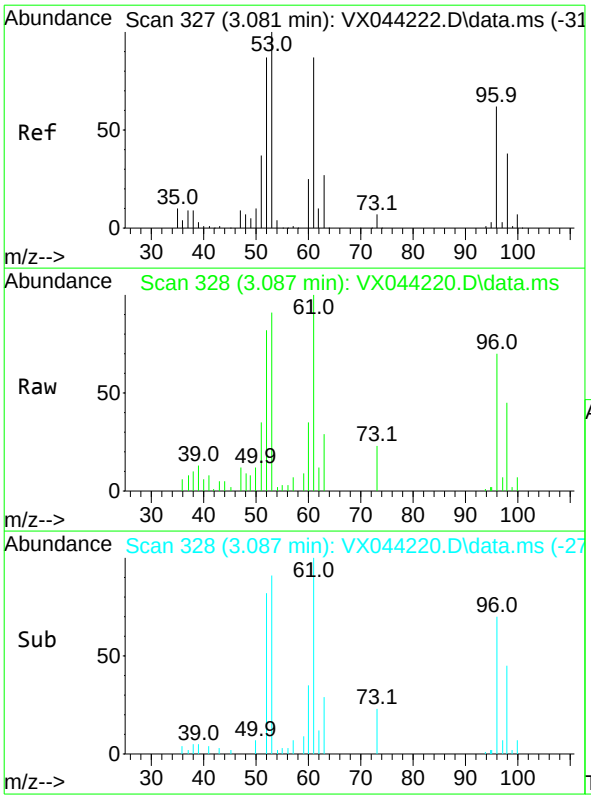


#20
Methylene Chloride
Concen: 5.050 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 84 Resp: 9466

Ion	Ratio	Lower	Upper
84	100		
49	116.2	104.2	156.4
51	40.4	32.2	48.4
86	62.3	50.9	76.3

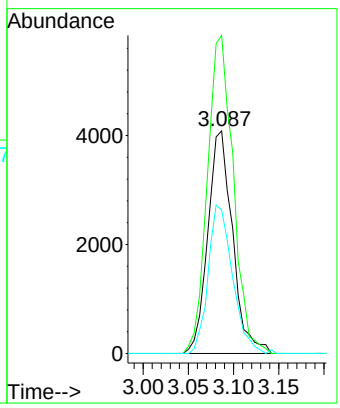




#21
trans-1,2-Dichloroethene
Concen: 4.671 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 7768

Ion	Ratio	Lower	Upper
96	100		
61	142.9	112.0	168.0
98	64.4	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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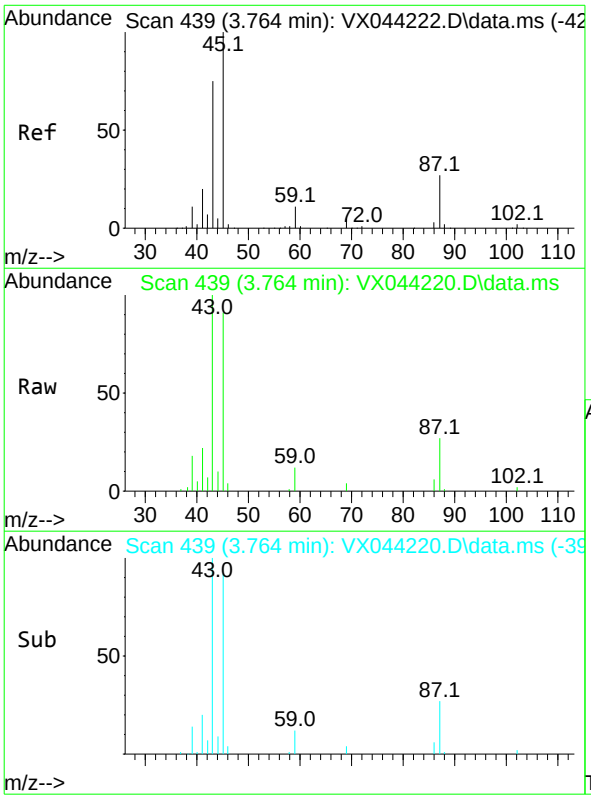
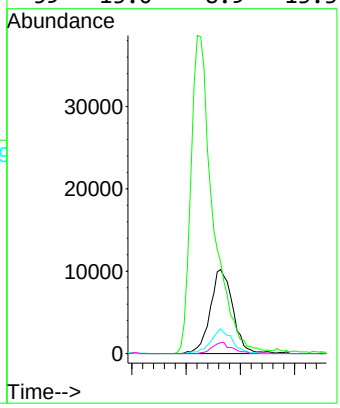
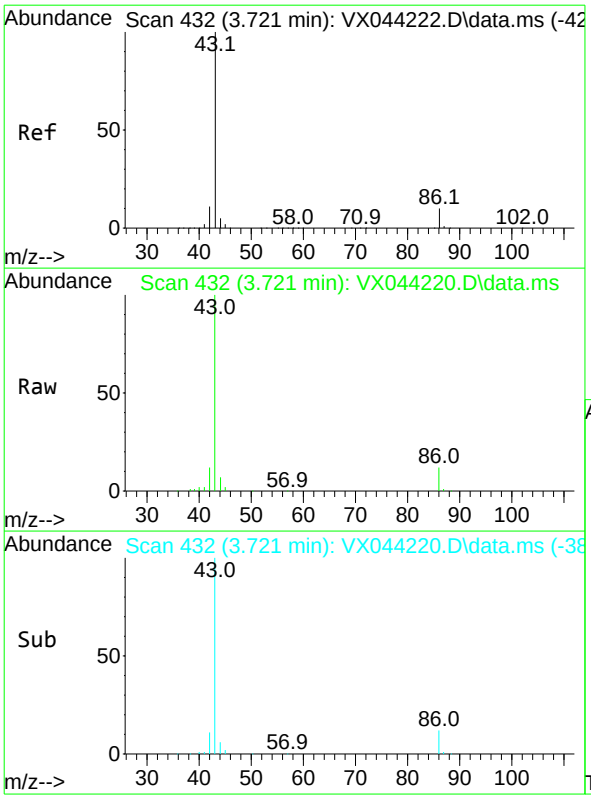


#22
Diisopropyl ether
Concen: 5.029 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 45 Resp: 29518

Ion	Ratio	Lower	Upper
45	100		
43	107.7	60.2	90.2#
87	29.5	21.2	31.8
59	13.0	8.9	13.3

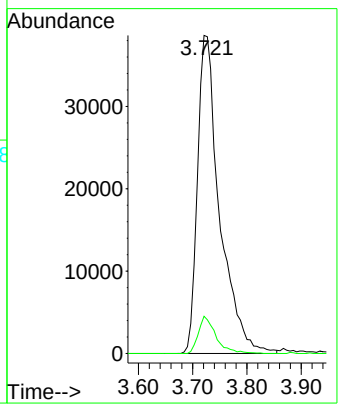




#23
Vinyl Acetate
Concen: 22.983 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 109670

Ion	Ratio	Lower	Upper
43	100		
86	11.7	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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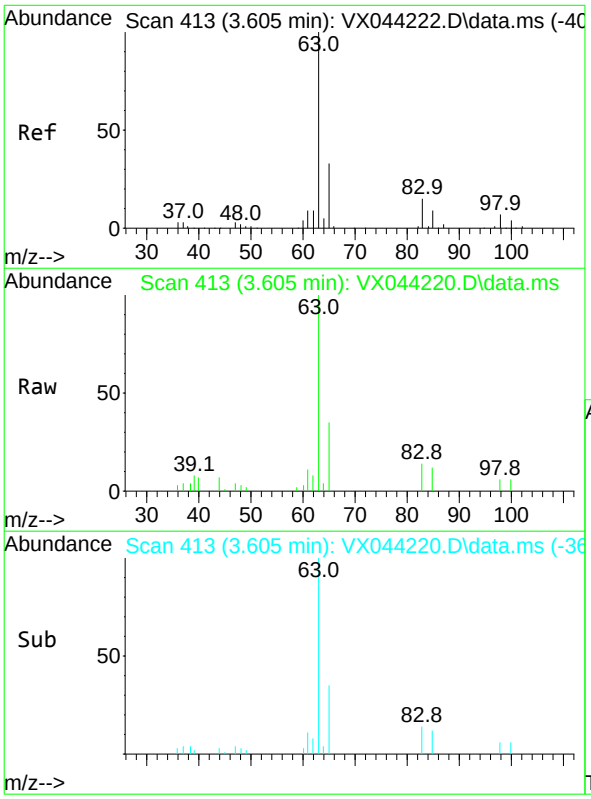
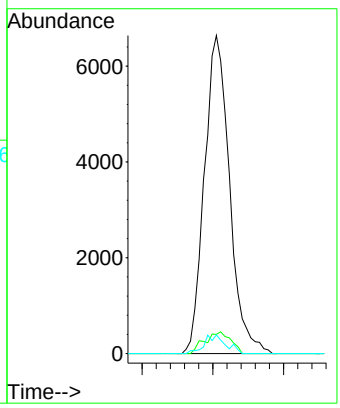
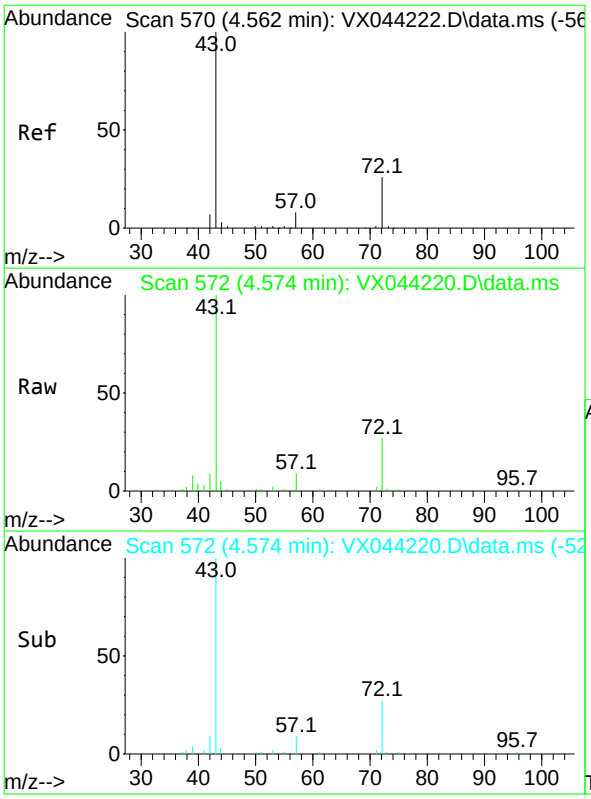


#24
1,1-Dichloroethane
Concen: 5.004 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 16370

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.6	10.8
100	5.9	2.1	6.3

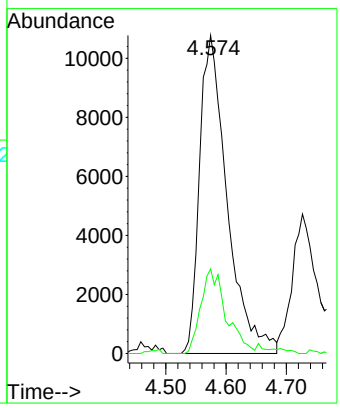




#25
2-Butanone
Concen: 24.138 ug/l
RT: 4.574 min Scan# 57
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 34245

Ion	Ratio	Lower	Upper
43	100		
72	26.6	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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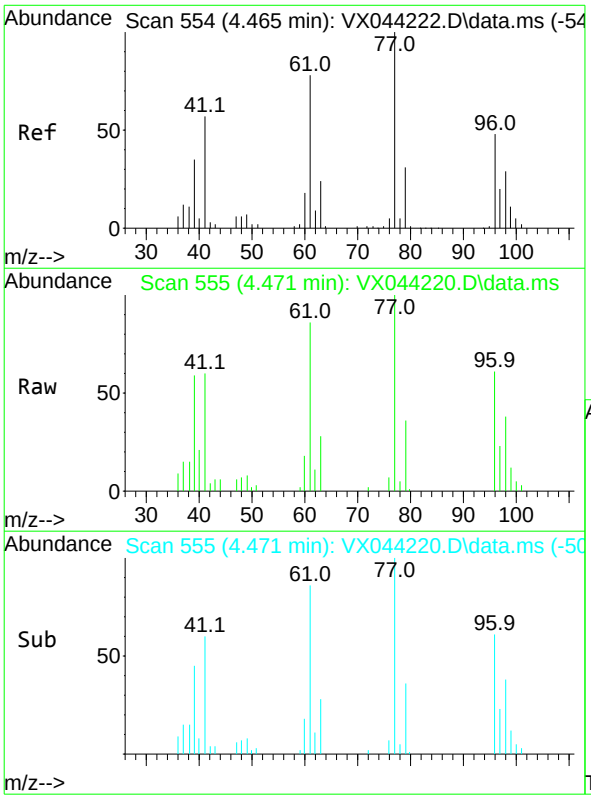
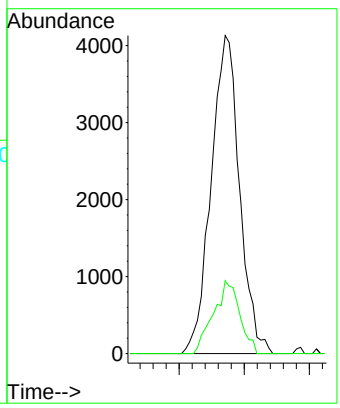
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

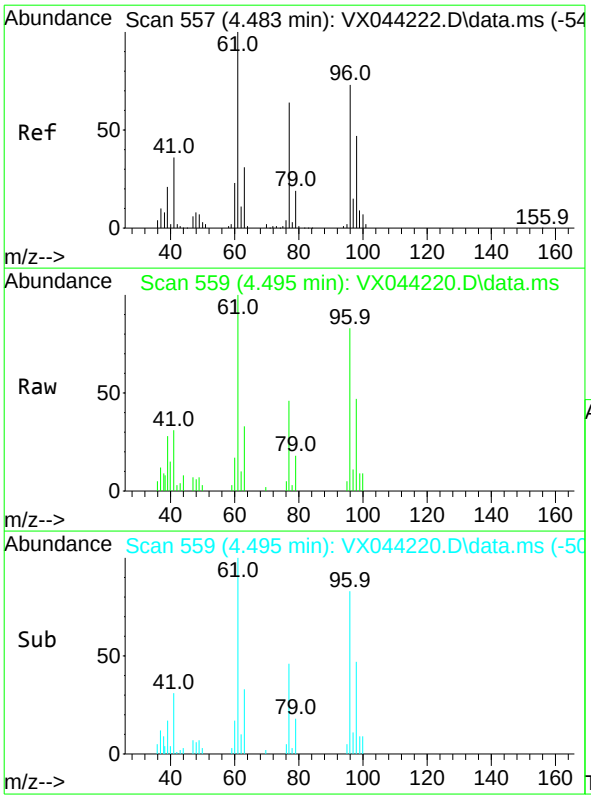


#26
2,2-Dichloropropane
Concen: 4.708 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 77 Resp: 12514

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.7	32.1

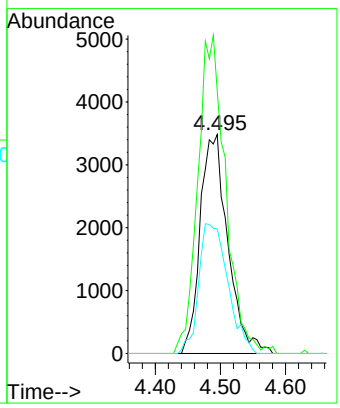




#27
cis-1,2-Dichloroethene
Concen: 4.873 ug/l
RT: 4.495 min Scan# 55
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 10292

Ion	Ratio	Lower	Upper
96	100		
61	145.0	0.0	299.0
98	62.4	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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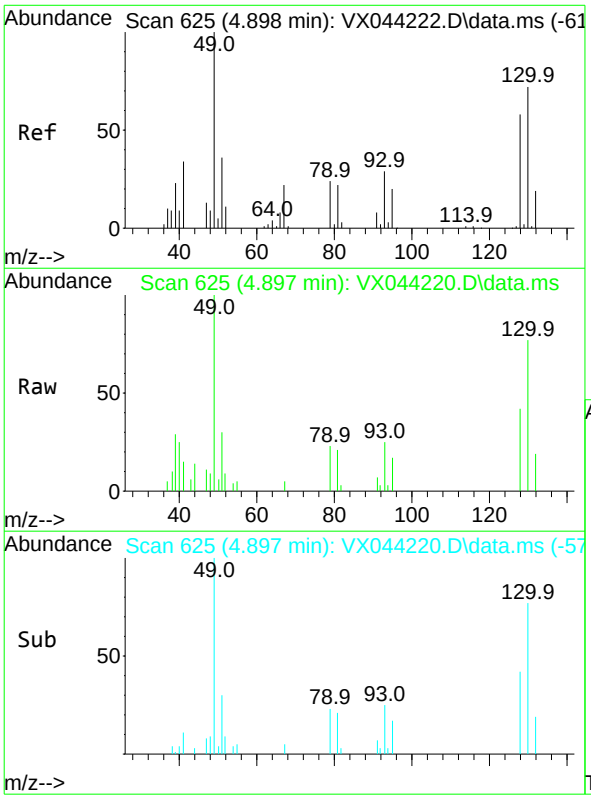
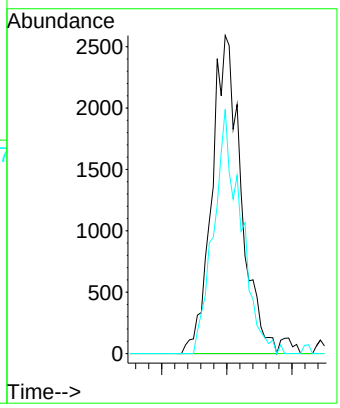
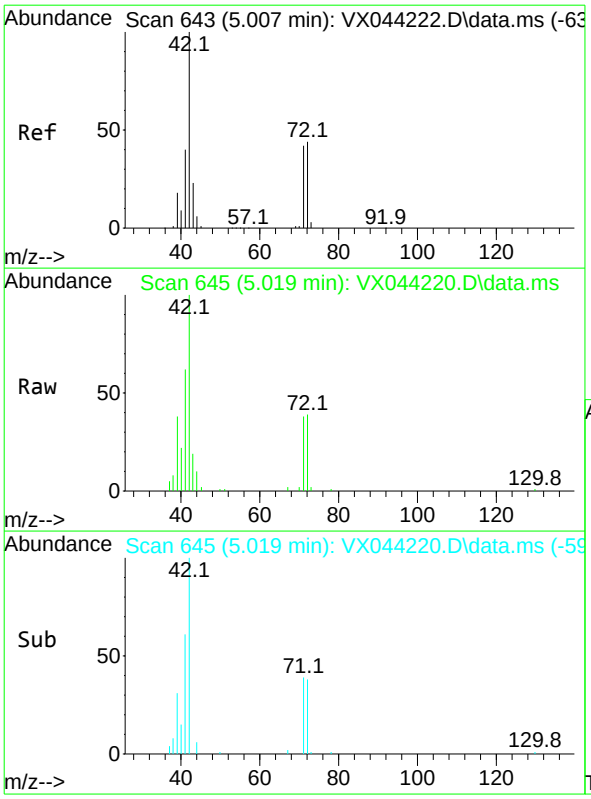


#28
Bromochloromethane
Concen: 5.017 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 49 Resp: 8049

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	71.2	62.1	93.1

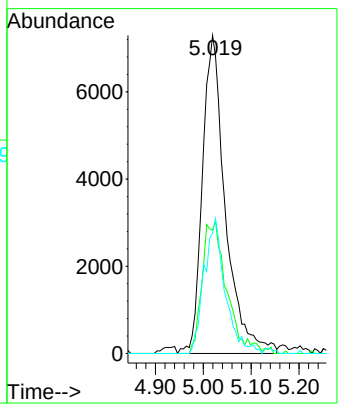




#29
Tetrahydrofuran
Concen: 26.693 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 42 Resp: 24307

Ion	Ratio	Lower	Upper
42	100		
72	42.3	37.0	55.6
71	38.9	33.6	50.4



Instrument :
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ClientSampleId :
VSTDICC005

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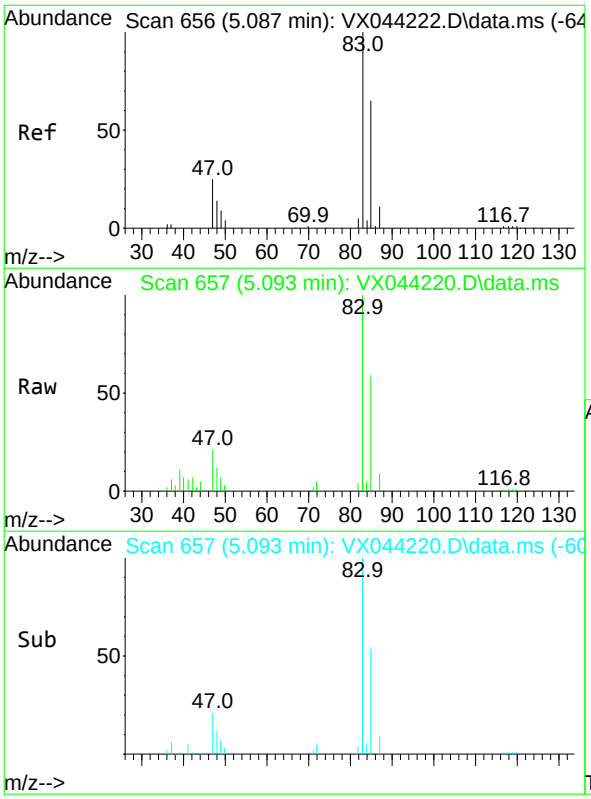
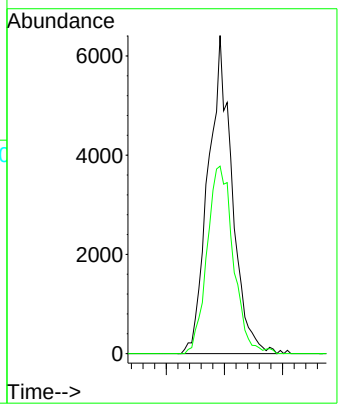
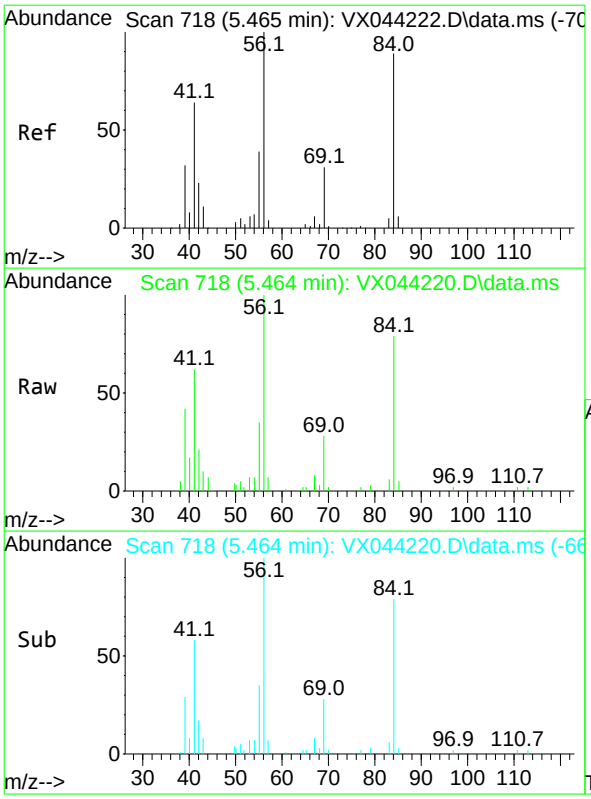


#30
Chloroform
Concen: 4.984 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 18319

Ion	Ratio	Lower	Upper
83	100		
85	58.9	51.6	77.4

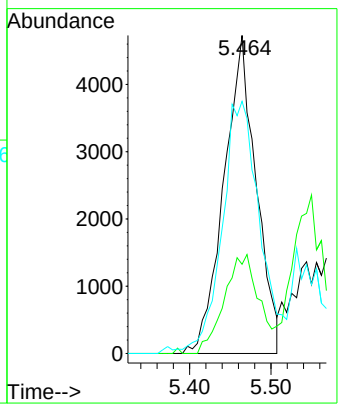




#31
Cyclohexane
Concen: 4.919 ug/l
RT: 5.464 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 56 Resp: 12995

Ion	Ratio	Lower	Upper
56	100		
69	26.4	24.7	37.1
84	77.9	71.0	106.6



Instrument :
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ClientSampleId :
VSTDICC005

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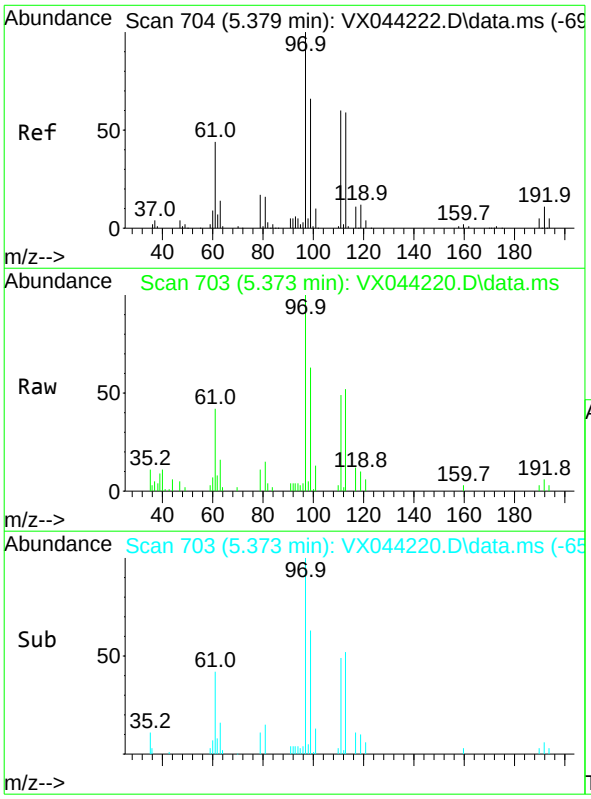
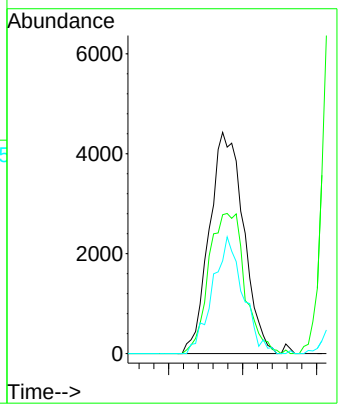
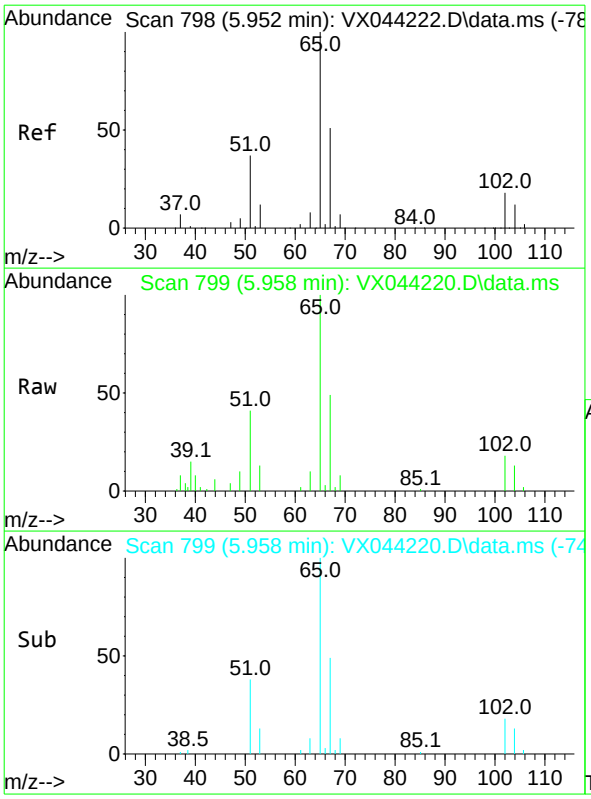


#32
1,1,1-Trichloroethane
Concen: 4.664 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 97 Resp: 14231

Ion	Ratio	Lower	Upper
97	100		
99	66.8	50.8	76.2
61	46.9	35.2	52.8

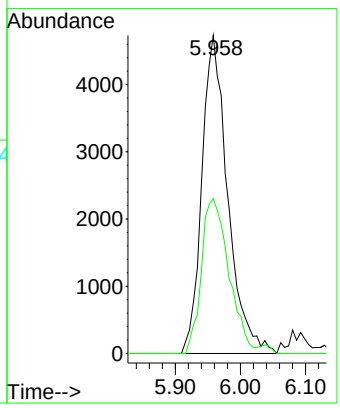




#33
1,2-Dichloroethane-d4
Concen: 5.328 ug/l
RT: 5.958 min Scan# 79
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 65 Resp: 13043

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
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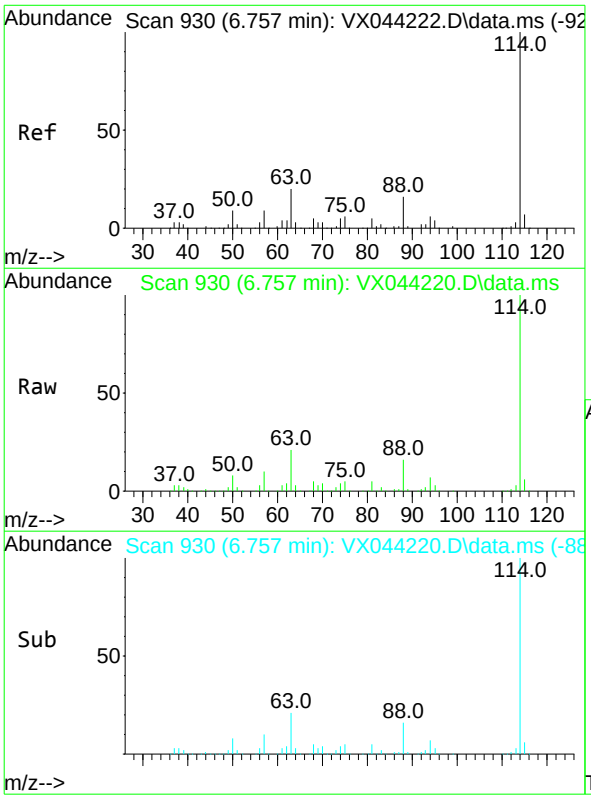
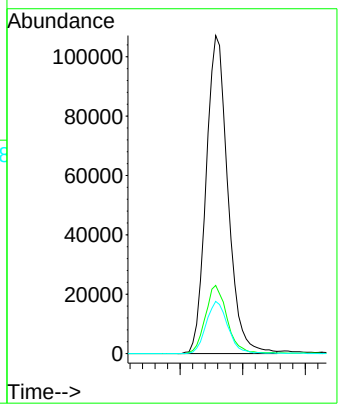
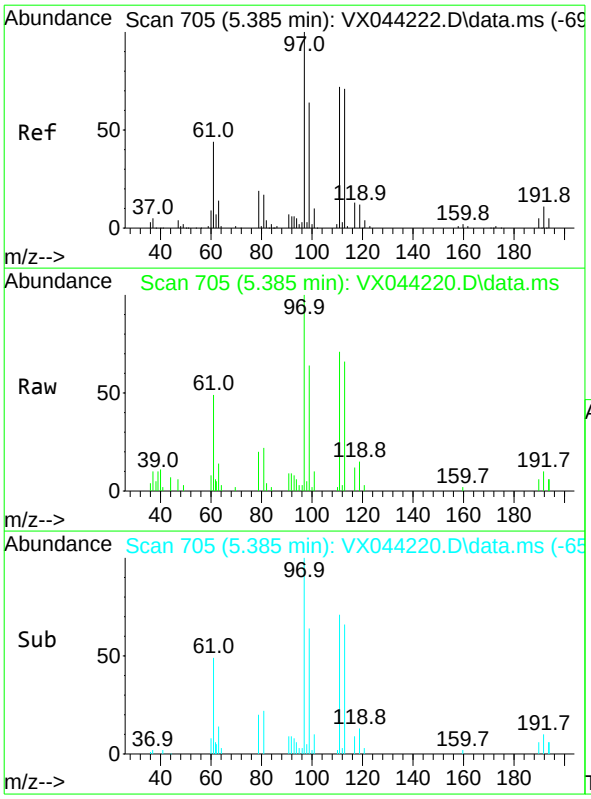


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:114 Resp: 258881

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.6
88	16.4	0.0	31.8

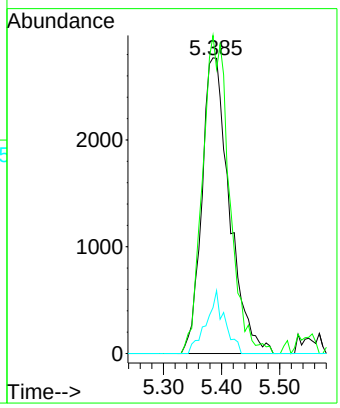




#35
Dibromofluoromethane
Concen: 5.100 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:113 Resp: 9145

Ion	Ratio	Lower	Upper
113	100		
111	104.7	80.4	120.6
192	14.2	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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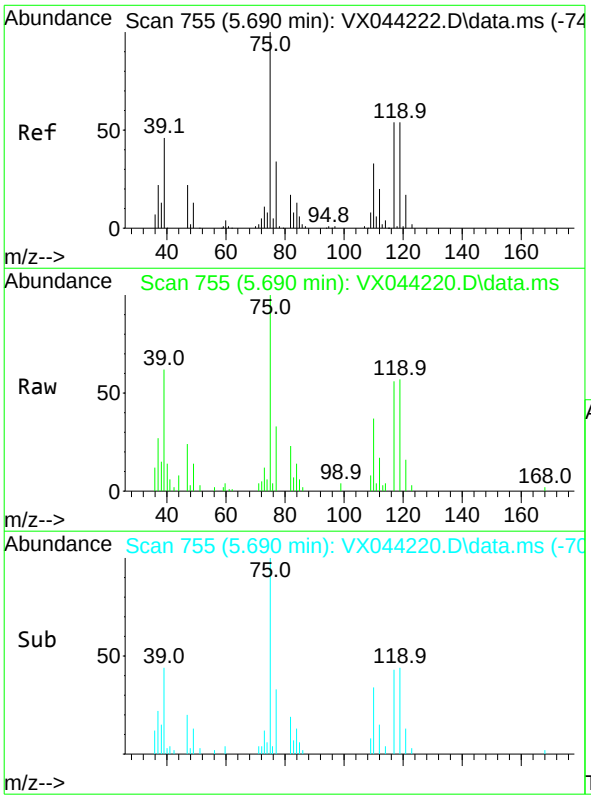
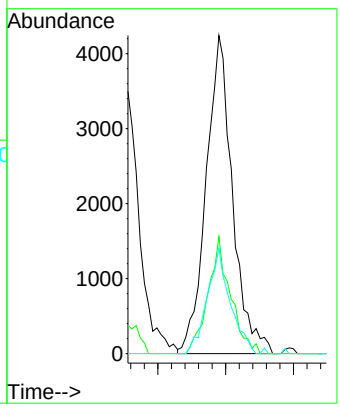
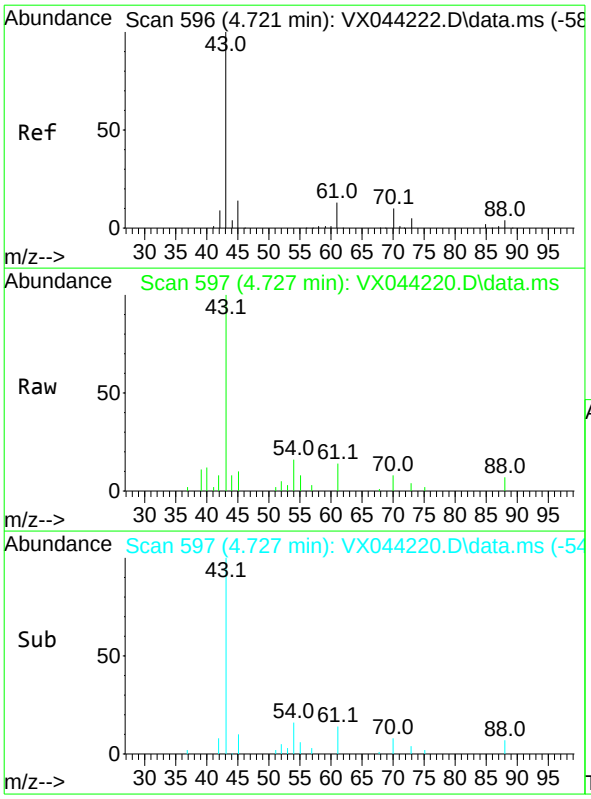


#36
1,1-Dichloropropene
Concen: 4.942 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11455

Ion	Ratio	Lower	Upper
75	100		
110	31.1	17.3	51.7
77	28.7	25.4	38.0

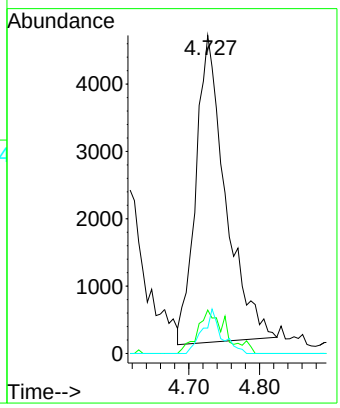




#37
Ethyl Acetate
Concen: 4.630 ug/l
RT: 4.727 min Scan# 59
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 13265

Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.8
70	9.1	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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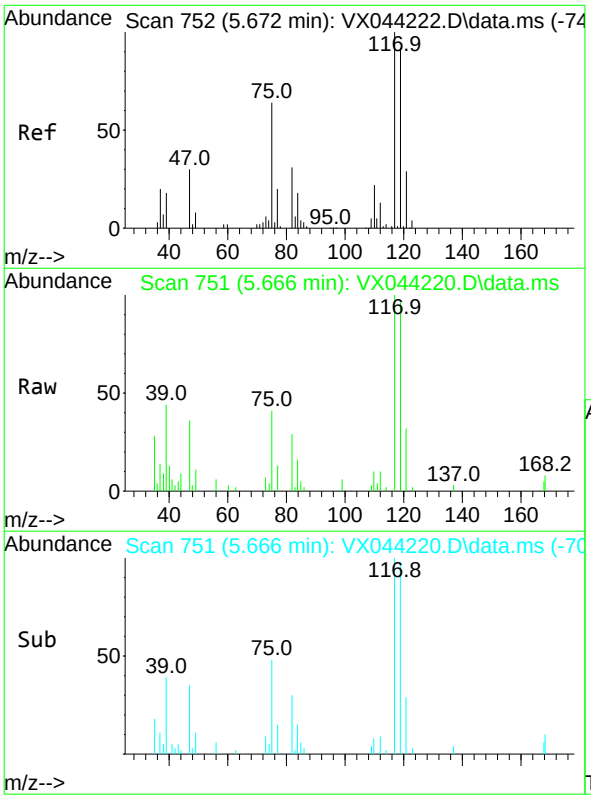
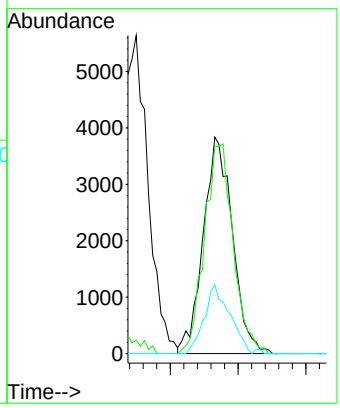
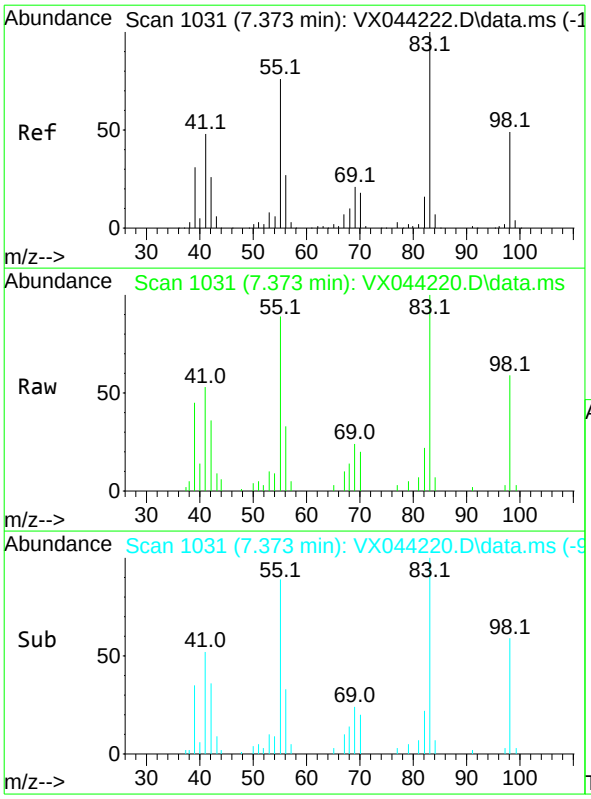


#38
Carbon Tetrachloride
Concen: 4.599 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 11476

Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.2	111.4
121	31.7	23.0	34.6

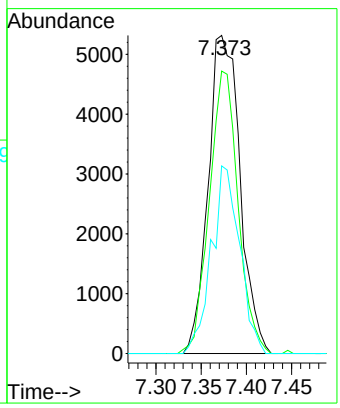




#39
Methylcyclohexane
Concen: 4.699 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 13019

Ion	Ratio	Lower	Upper
83	100		
55	88.8	60.7	91.1
98	59.0	38.9	58.3#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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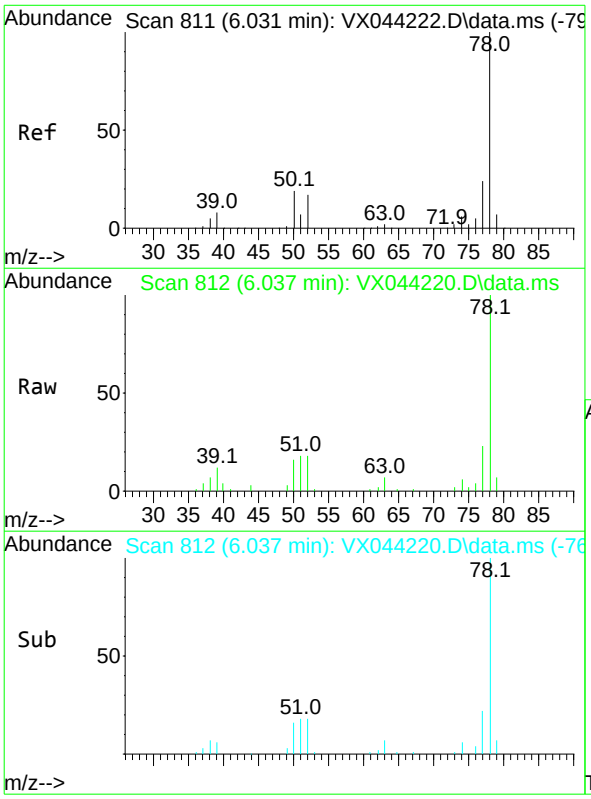
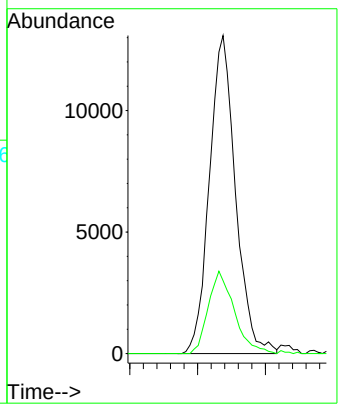
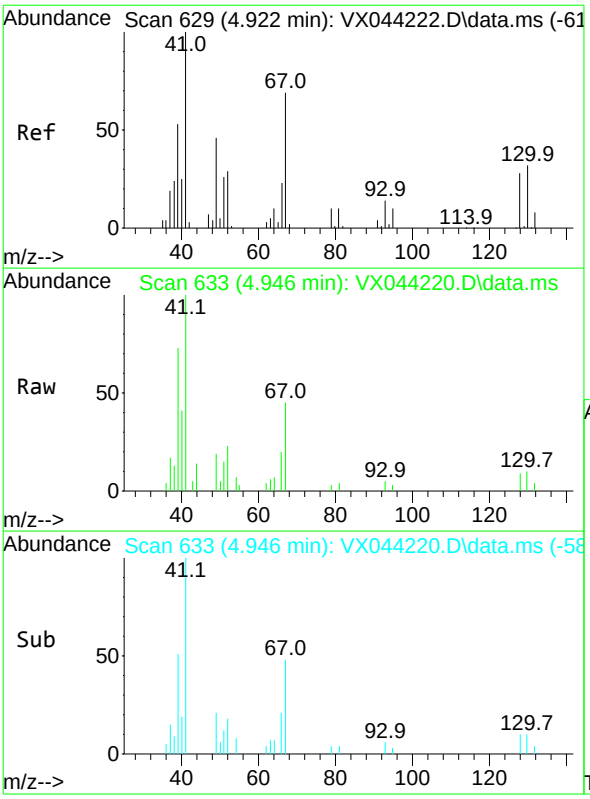


#40
Benzene
Concen: 4.976 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 78 Resp: 35018

Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.3	28.9

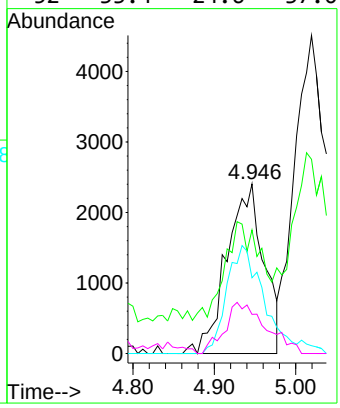




#41
Methacrylonitrile
Concen: 4.986 ug/l
RT: 4.946 min Scan# 63
Delta R.T. 0.024 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 7585

Ion	Ratio	Lower	Upper
41	100		
39	58.4	44.2	66.4
67	63.0	57.2	85.8
52	33.4	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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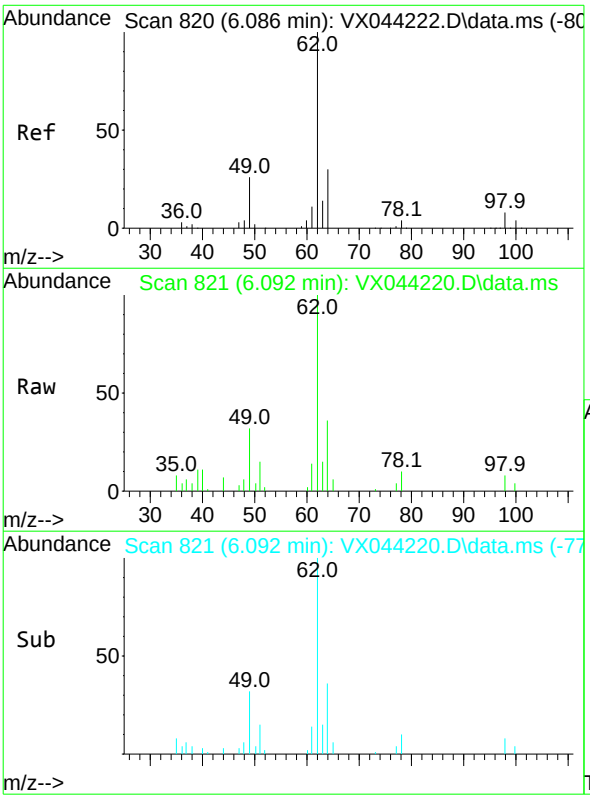
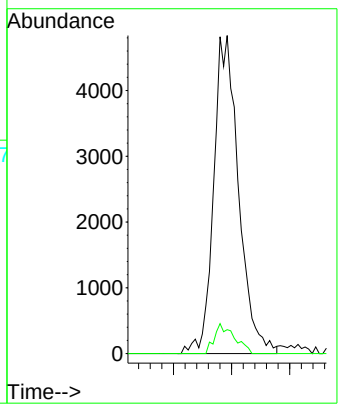
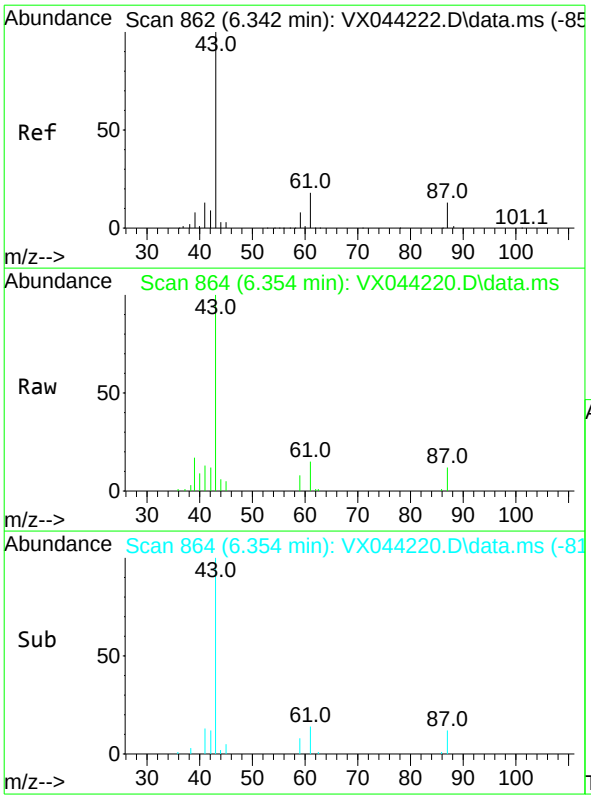


#42
1,2-Dichloroethane
Concen: 4.974 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 14419

Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	15.8

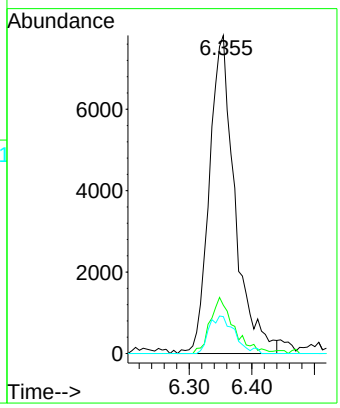




#43
Isopropyl Acetate
Concen: 4.935 ug/l
RT: 6.354 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 22098

Ion	Ratio	Lower	Upper
43	100		
61	16.5	14.2	21.2
87	11.9	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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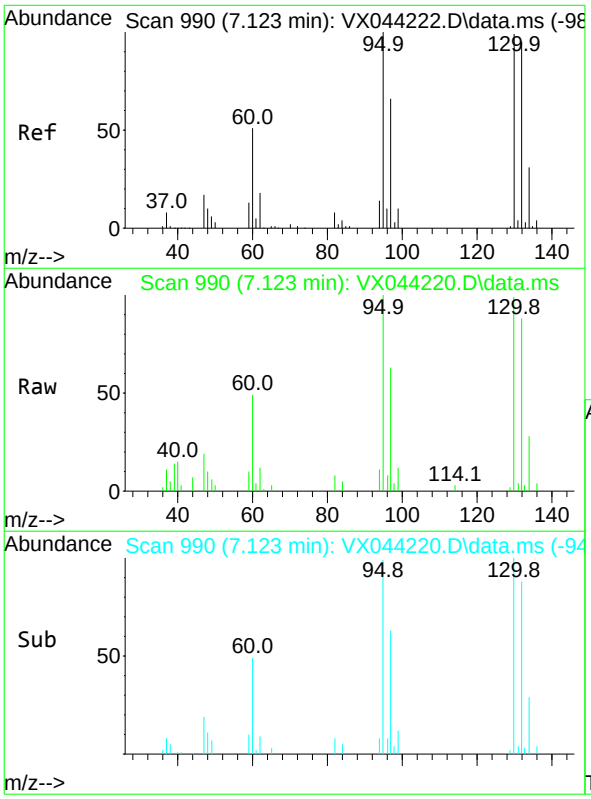
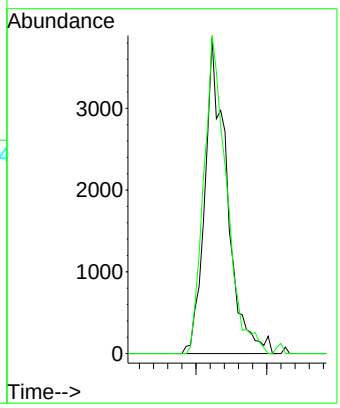
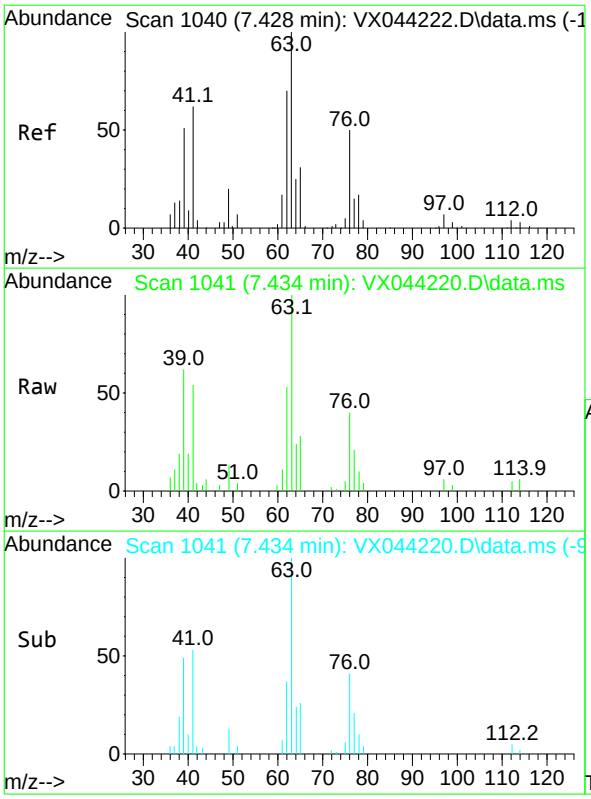


#44
Trichloroethene
Concen: 4.790 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:130 Resp: 8405

Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	201.4

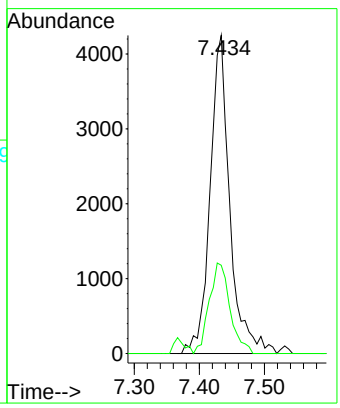




#45
1,2-Dichloropropane
Concen: 4.968 ug/l
RT: 7.434 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 8932

Ion	Ratio	Lower	Upper
63	100		
65	27.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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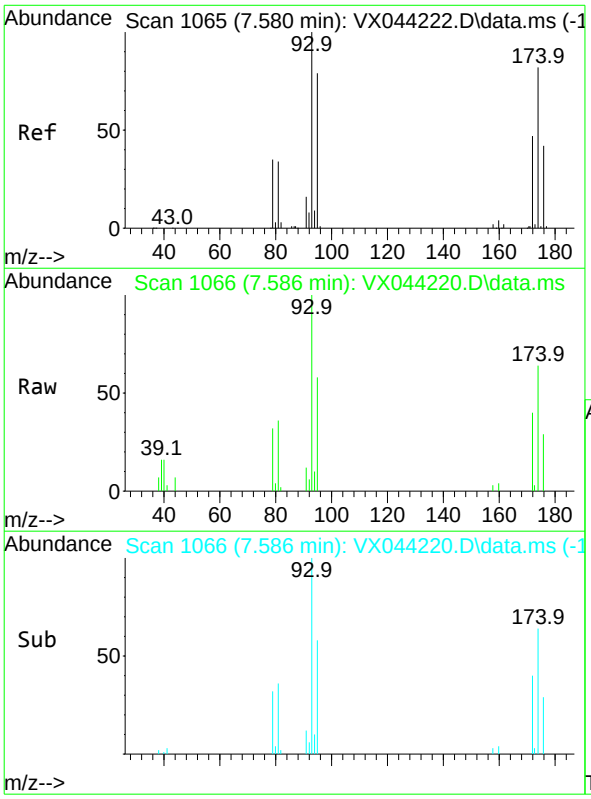
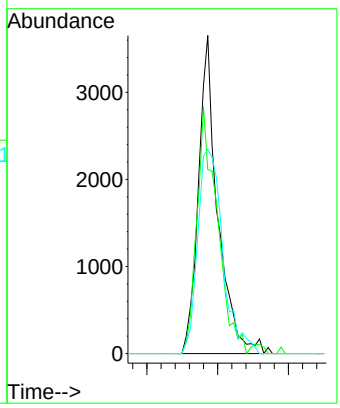
Supervised By :Mahesh Dadoda 12/12/2024

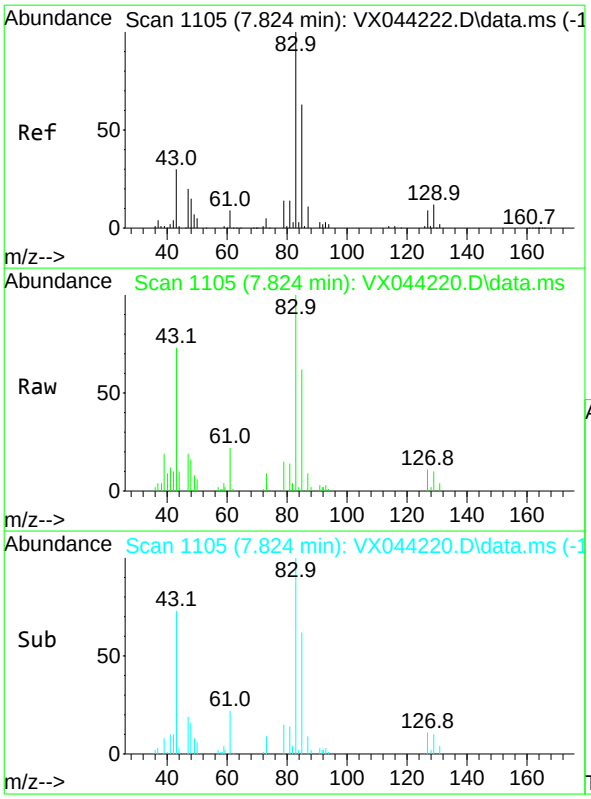


#46
Dibromomethane
Concen: 4.958 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 93 Resp: 6915

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.4	98.2
174	83.6	67.9	101.9

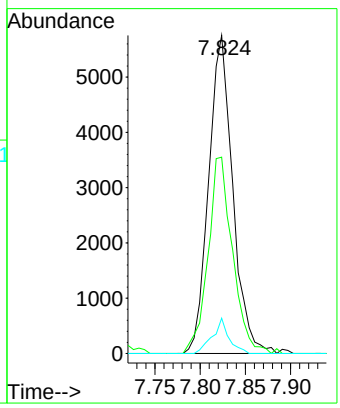




#47
Bromodichloromethane
Concen: 4.420 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 10646

Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.6	75.8
127	11.1	7.3	10.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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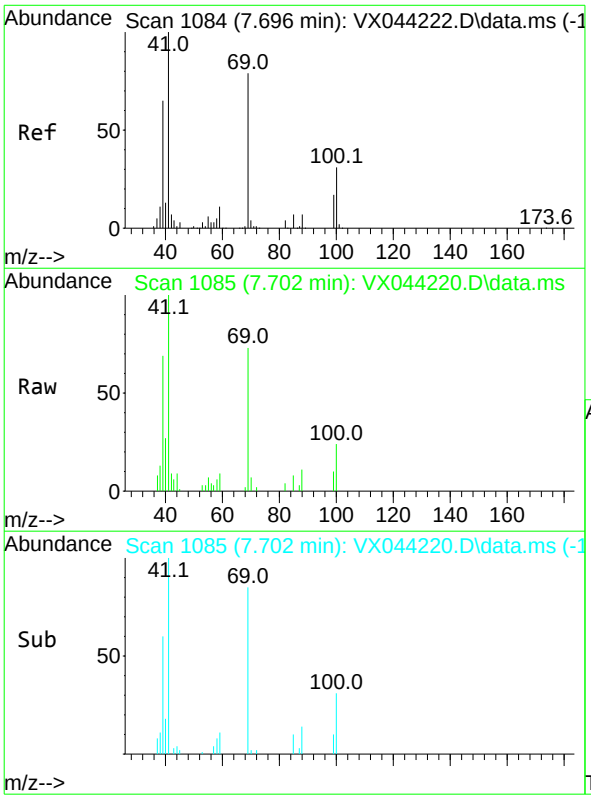
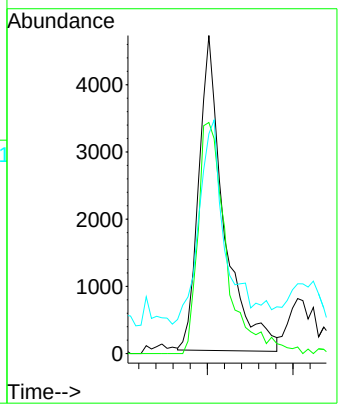
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

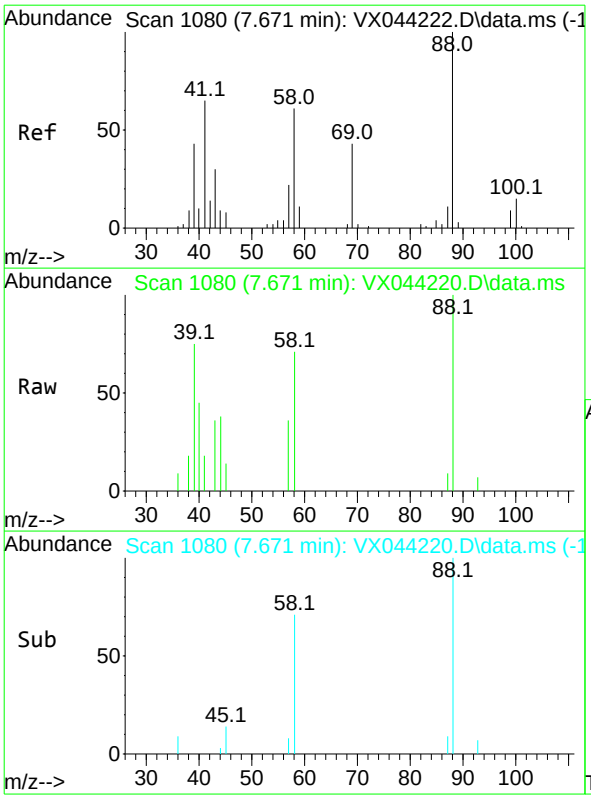


#48
Methyl methacrylate
Concen: 4.410 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 9586

Ion	Ratio	Lower	Upper
41	100		
69	82.8	62.4	93.6
39	66.7	53.3	79.9

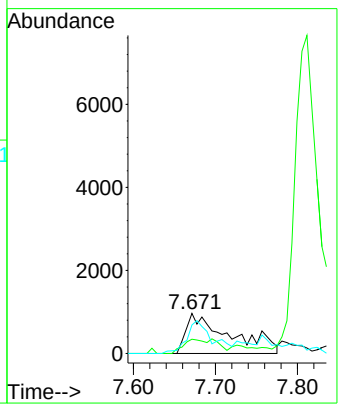




#49
1,4-Dioxane
Concen: 95.429 ug/l m
RT: 7.671 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 88 Resp: 3545

Ion	Ratio	Lower	Upper
88	100		
43	18.3	27.1	40.7#
58	48.3	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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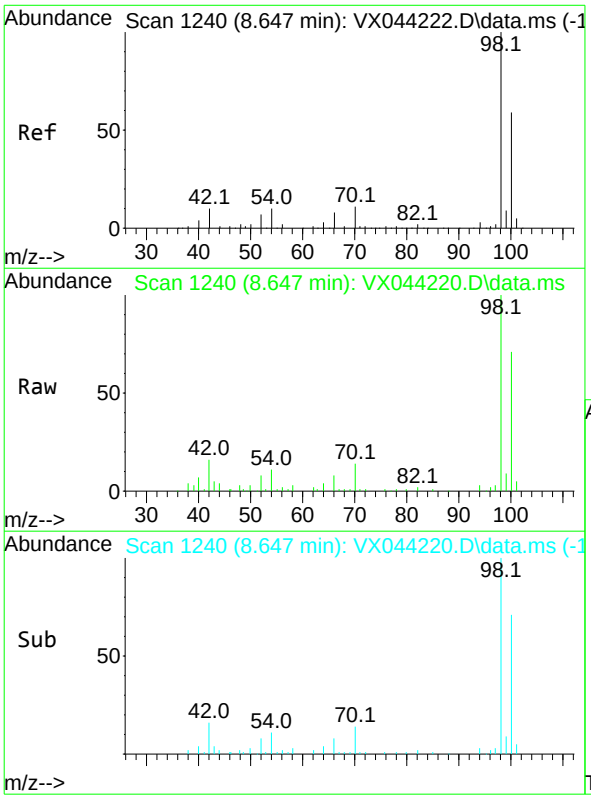
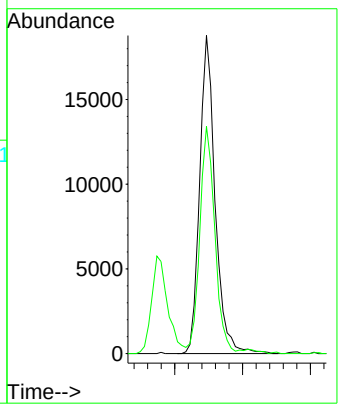
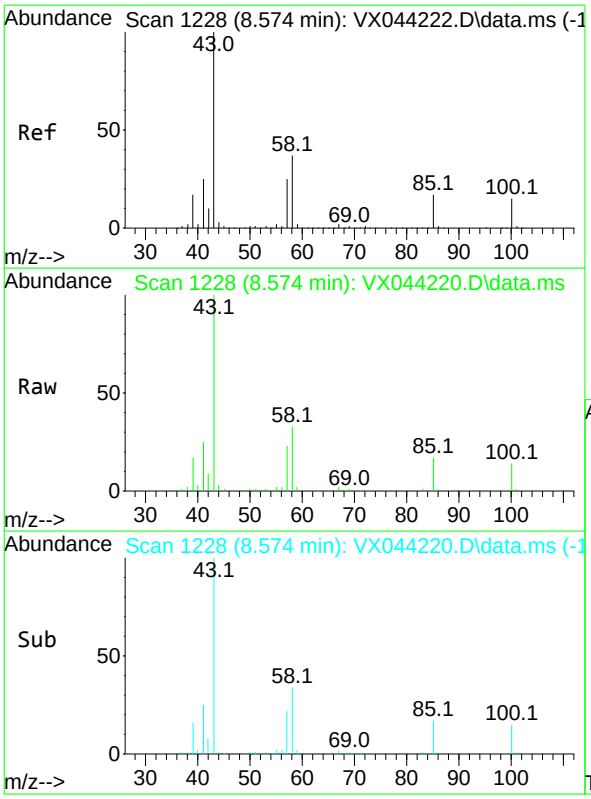


#50
Toluene-d8
Concen: 4.915 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 98 Resp: 29732

Ion	Ratio	Lower	Upper
98	100		
100	67.4	51.5	77.3

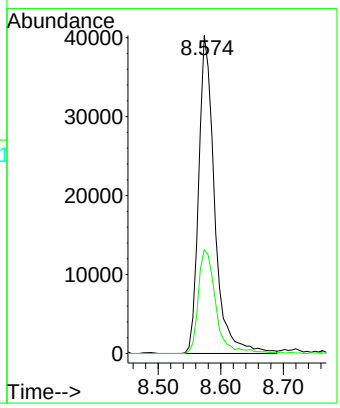




#51
4-Methyl-2-Pentanone
Concen: 24.759 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 71285

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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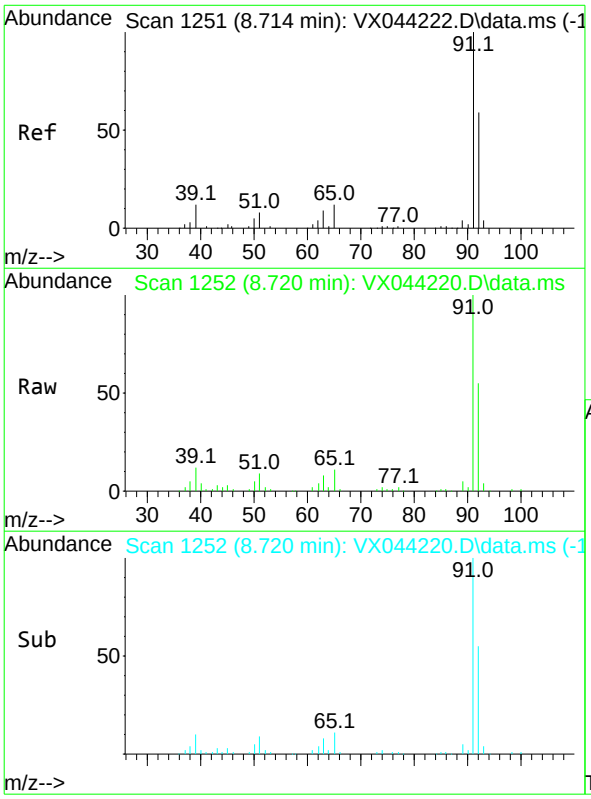
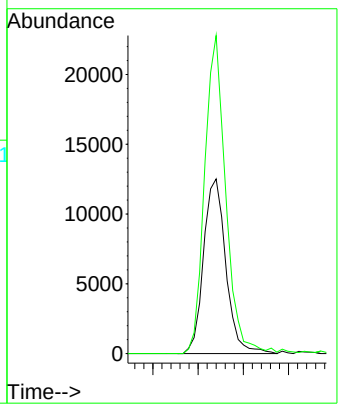
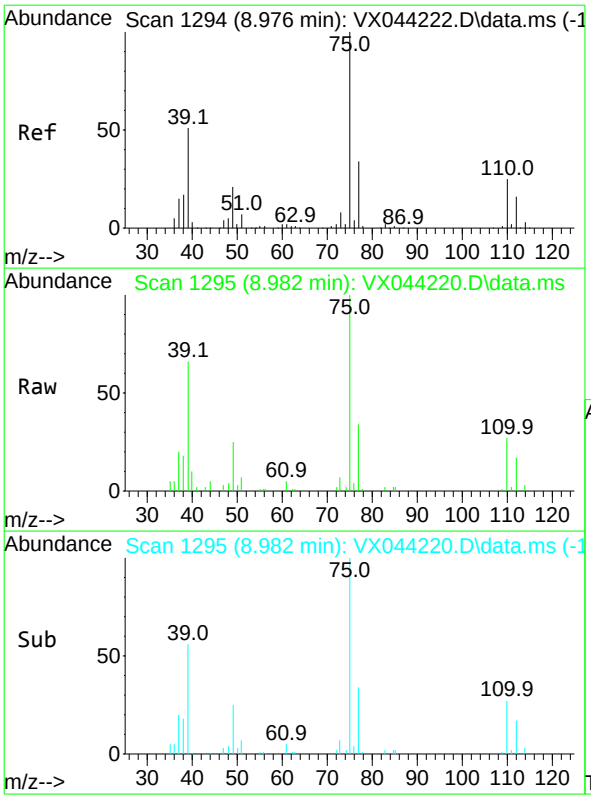


#52
Toluene
Concen: 4.862 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 92 Resp: 21486

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.0	205.6

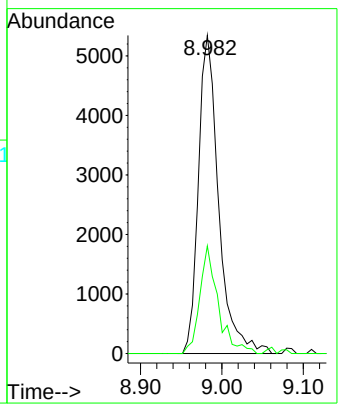




#53
t-1,3-Dichloropropene
Concen: 4.665 ug/l
RT: 8.982 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 9232

Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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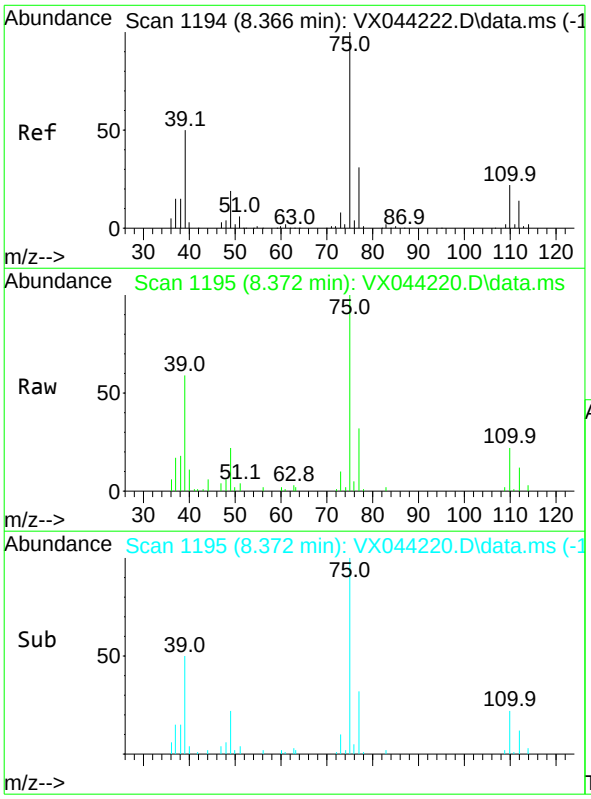
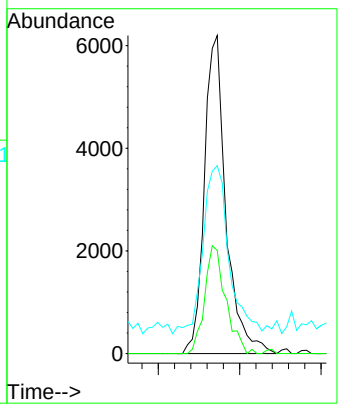
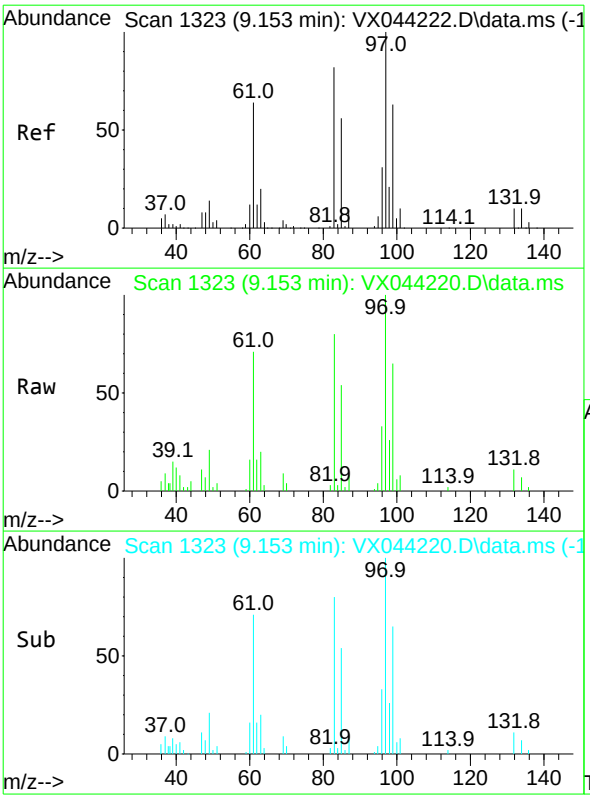


#54
cis-1,3-Dichloropropene
Concen: 4.348 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11404

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.7	37.1
39	50.5	40.3	60.5

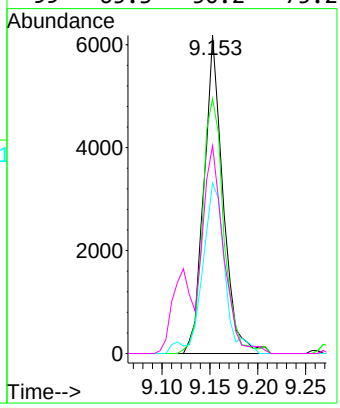




#55
1,1,2-Trichloroethane
Concen: 4.893 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 97 Resp: 8590

Ion	Ratio	Lower	Upper
97	100		
83	80.2	65.3	97.9
85	53.6	44.6	67.0
99	65.3	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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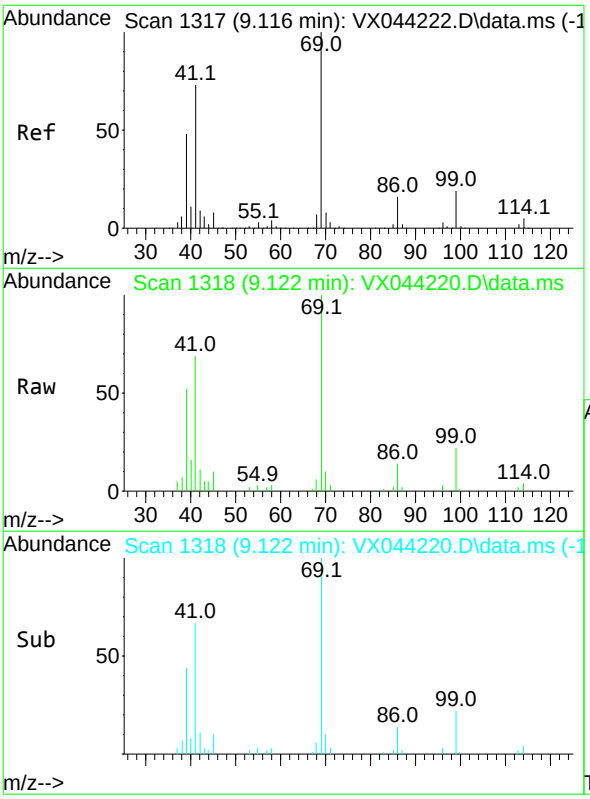
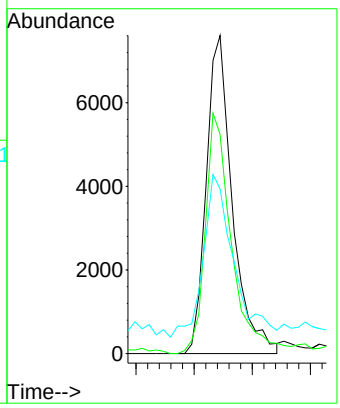
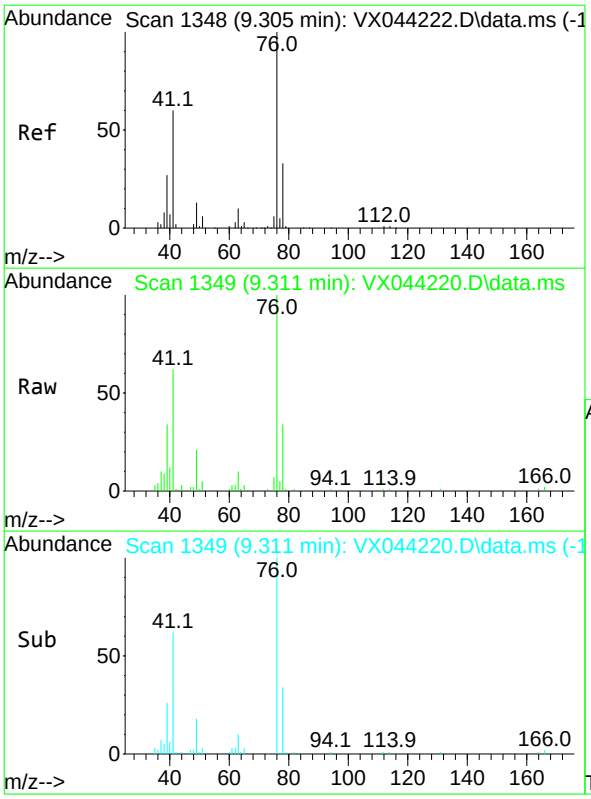


#56
Ethyl methacrylate
Concen: 4.277 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 69 Resp: 11854

Ion	Ratio	Lower	Upper
69	100		
41	76.0	56.6	85.0
39	58.7	37.4	56.0#

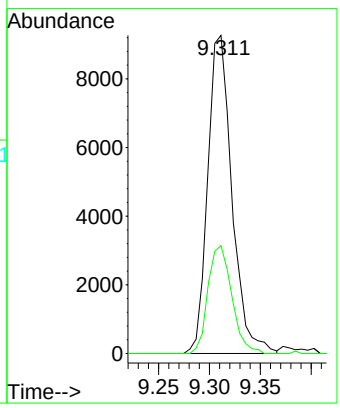




#57
1,3-Dichloropropane
Concen: 5.024 ug/l
RT: 9.311 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 76 Resp: 15352

Ion	Ratio	Lower	Upper
76	100		
78	33.3	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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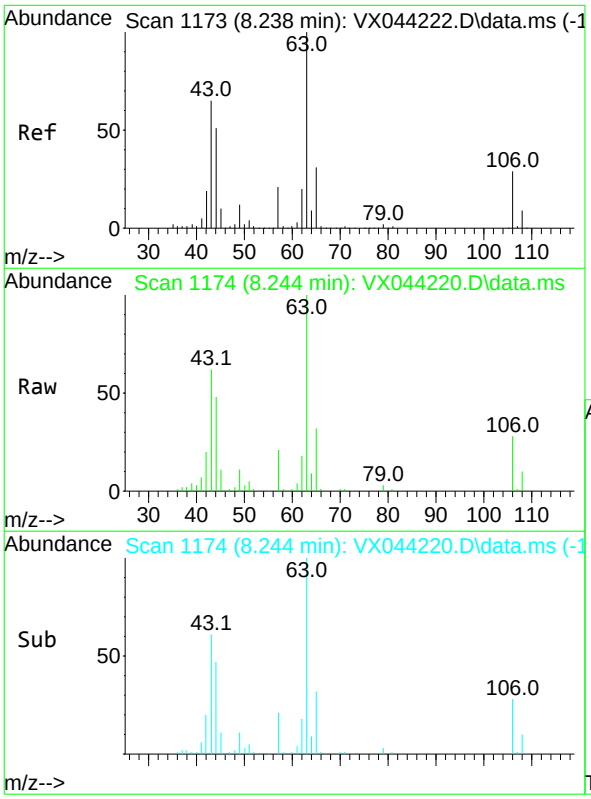
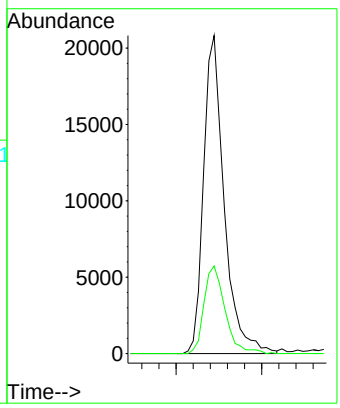
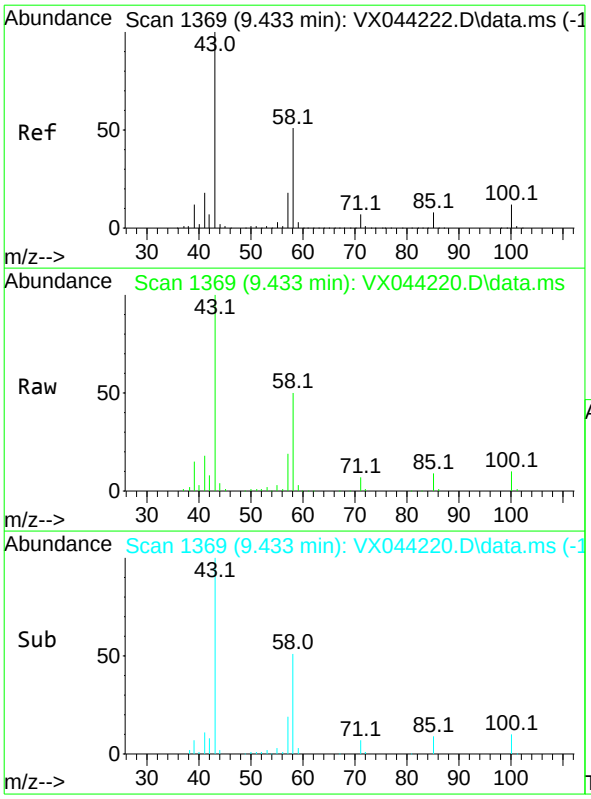


#58
2-Chloroethyl Vinyl ether
Concen: 24.852 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 34738

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.8	34.2

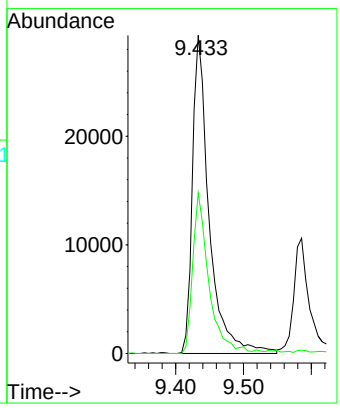




#59
2-Hexanone
Concen: 23.994 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 50003

Ion	Ratio	Lower	Upper
43	100		
58	48.6	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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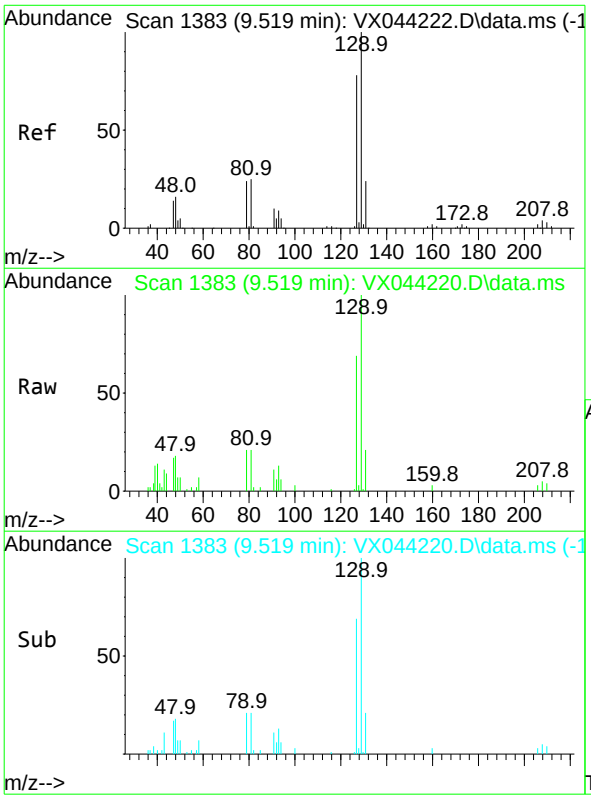
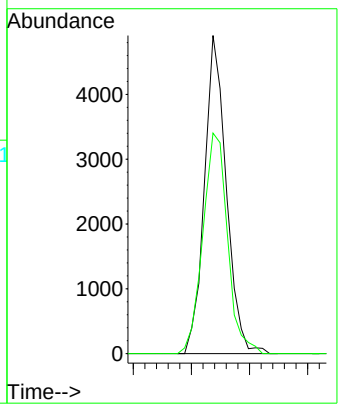
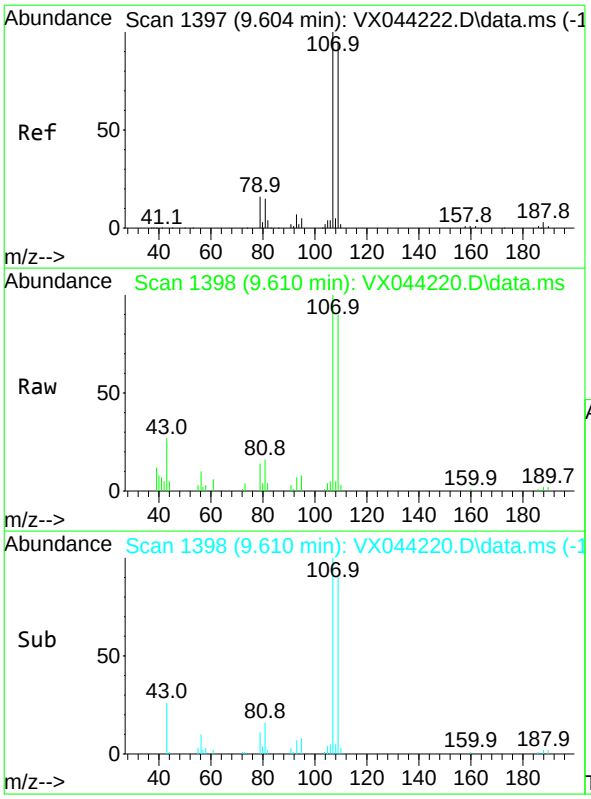


#60
Dibromochloromethane
Concen: 4.738 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:129 Resp: 6411

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.5	115.3

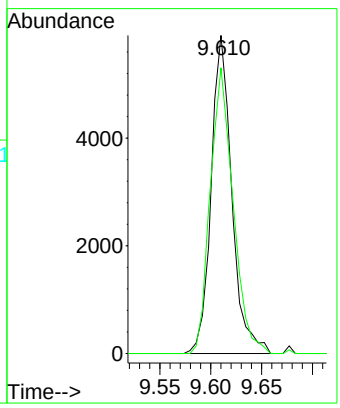




#61
1,2-Dibromoethane
Concen: 4.662 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:107 Resp: 8330

Ion	Ratio	Lower	Upper
107	100		
109	99.5	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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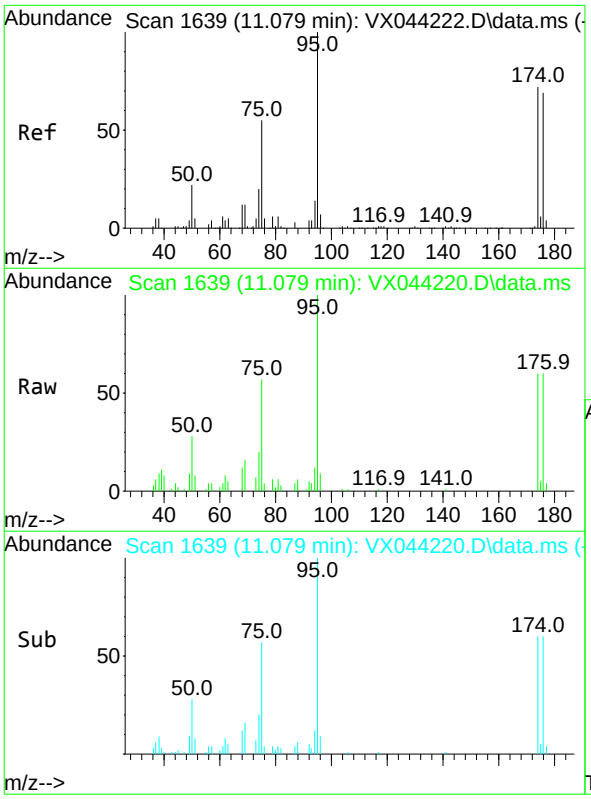
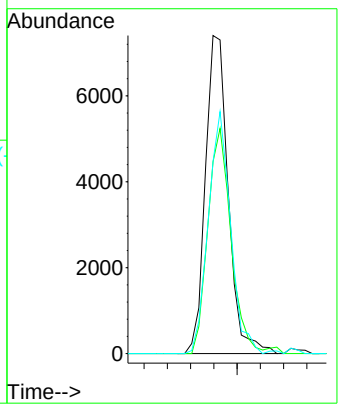
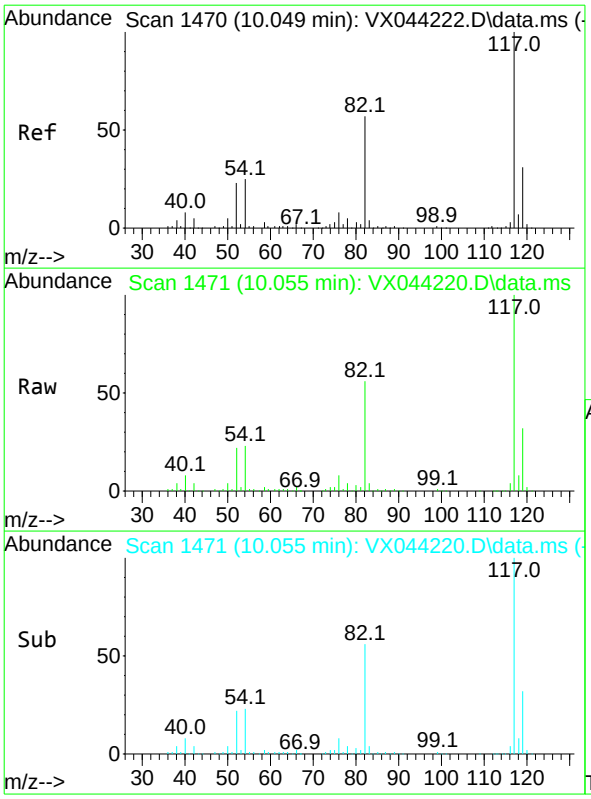


#62
4-Bromofluorobenzene
Concen: 4.779 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 95 Resp: 10101

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	145.8
176	74.4	0.0	137.8

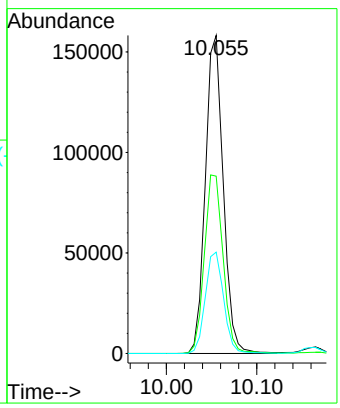




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 217783

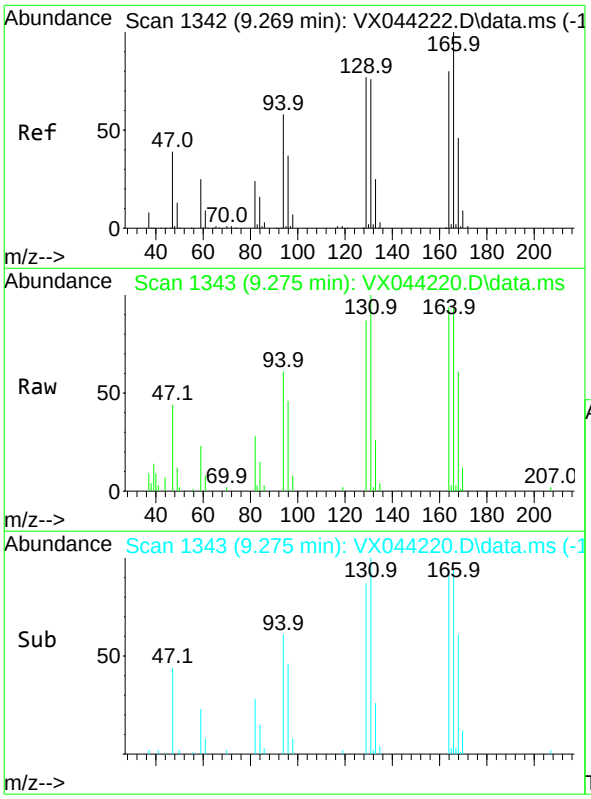
Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.8	68.8
119	31.9	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

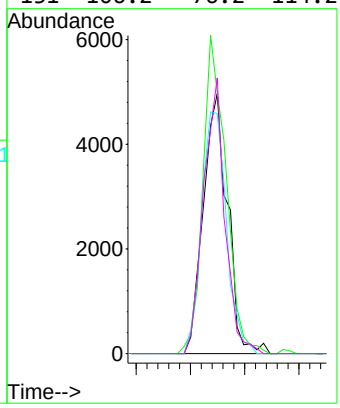
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

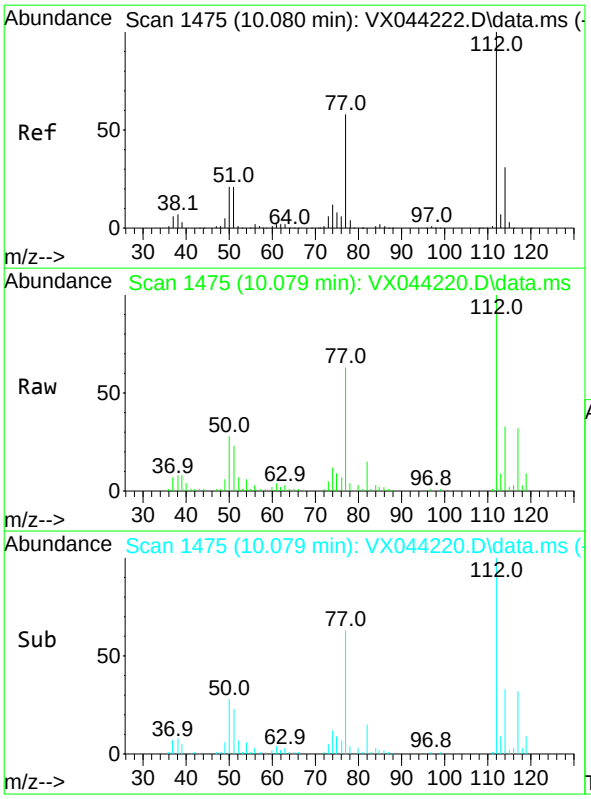


#64
Tetrachloroethene
Concen: 5.334 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:164 Resp: 7710

Ion	Ratio	Lower	Upper
164	100		
166	100.3	100.4	150.6#
129	92.5	77.2	115.8
131	106.2	76.2	114.2

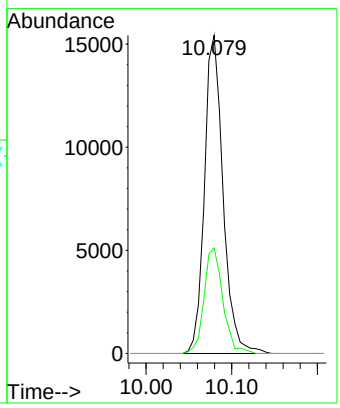




#65
Chlorobenzene
Concen: 4.986 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:112 Resp: 23268

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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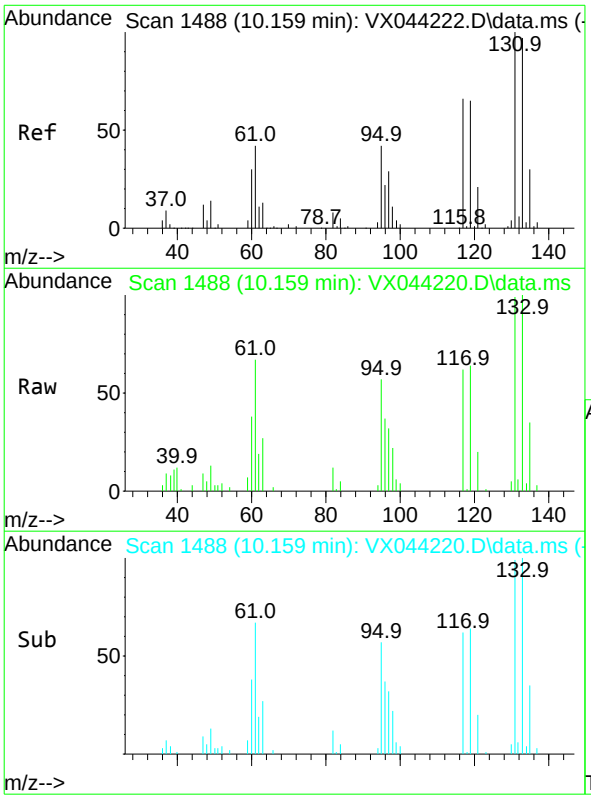
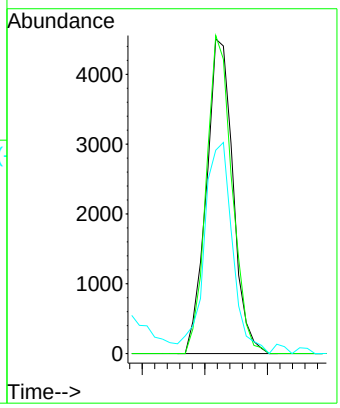
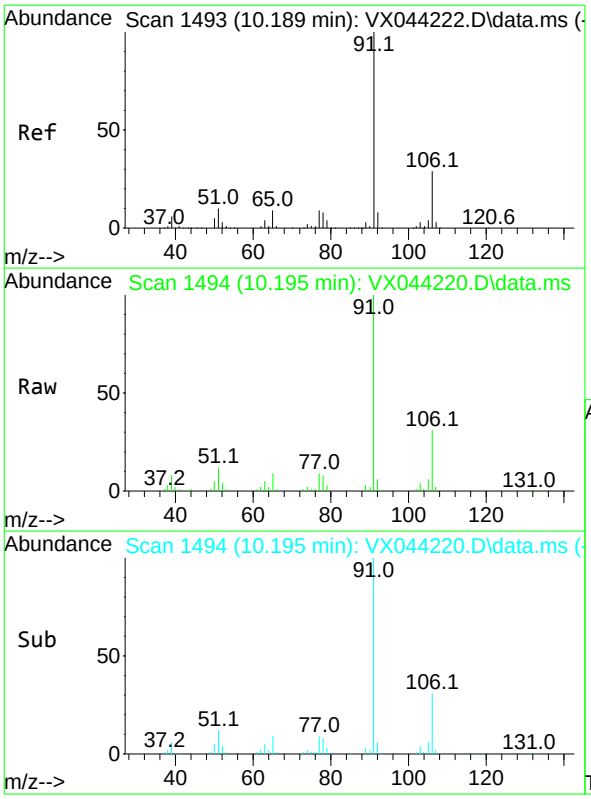


#66
1,1,1,2-Tetrachloroethane
Concen: 4.432 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:131 Resp: 6647

Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.3	141.8
119	70.8	31.6	95.0

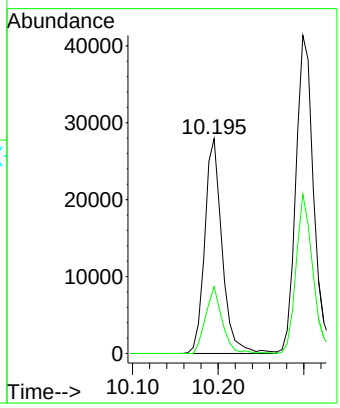




#67
Ethyl Benzene
Concen: 4.877 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 39326

Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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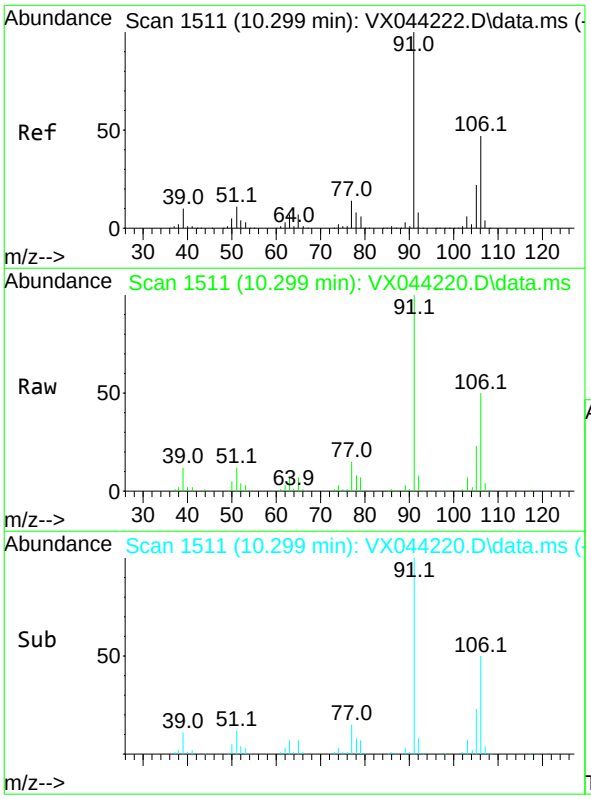
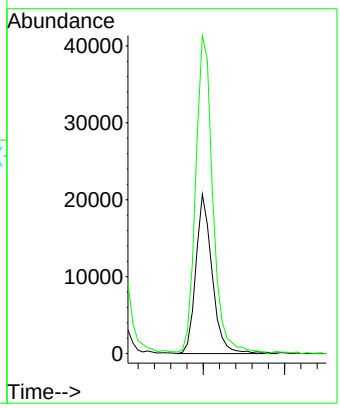
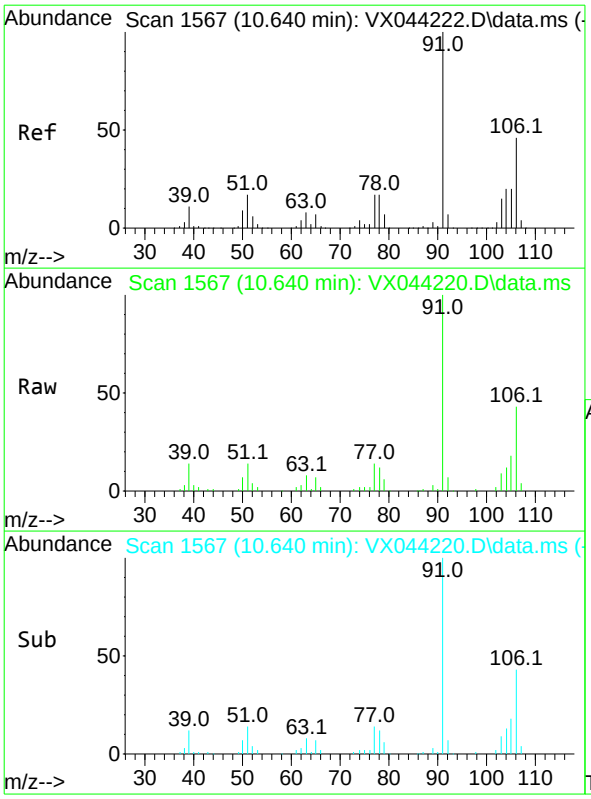


#68
m/p-Xylenes
Concen: 9.720 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:106 Resp: 28758

Ion	Ratio	Lower	Upper
106	100		
91	210.2	170.2	255.2

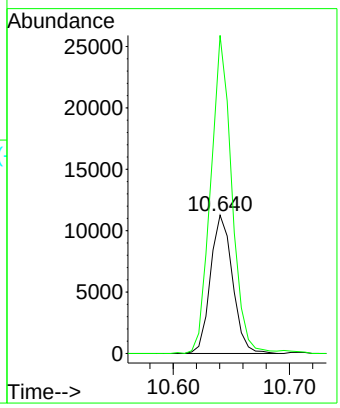




#69
o-Xylene
Concen: 4.965 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:106 Resp: 14864

Ion	Ratio	Lower	Upper
106	100		
91	219.3	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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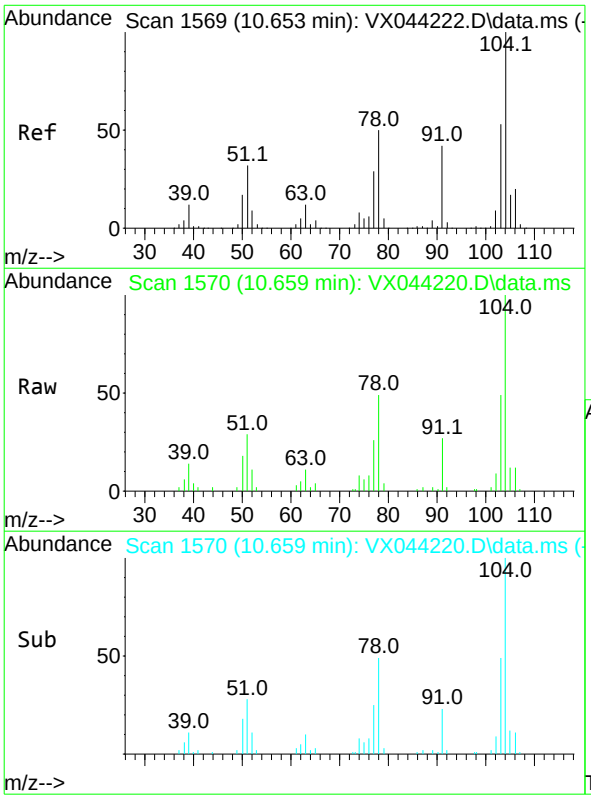
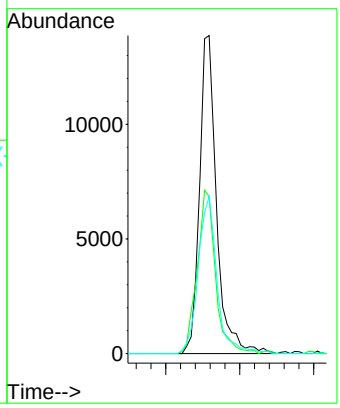
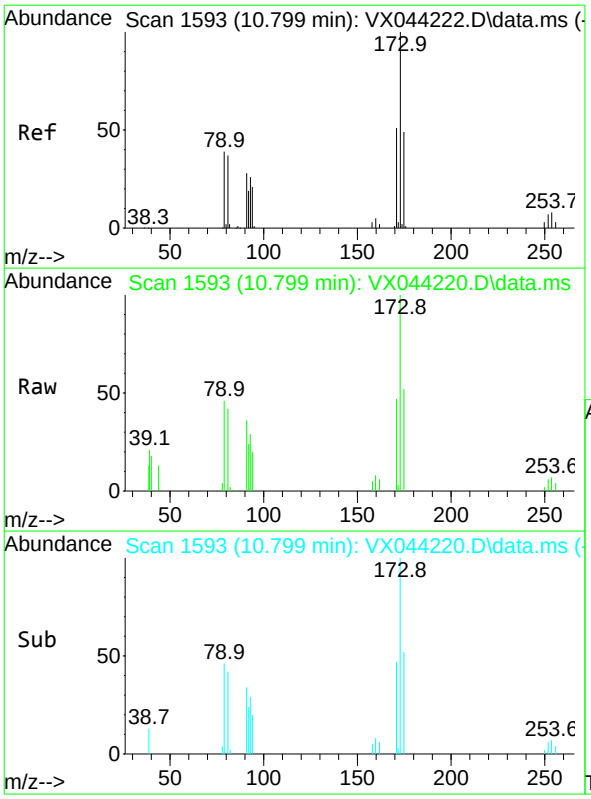


#70
Styrene
Concen: 4.624 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:104 Resp: 22191

Ion	Ratio	Lower	Upper
104	100		
78	55.5	44.6	67.0
103	54.6	45.4	68.0

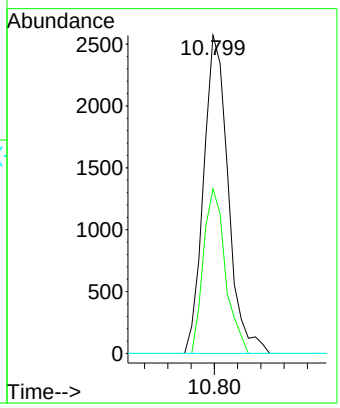




#71
Bromoform
Concen: 5.118 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:173 Resp: 3775

Ion	Ratio	Lower	Upper
173	100		
175	46.3	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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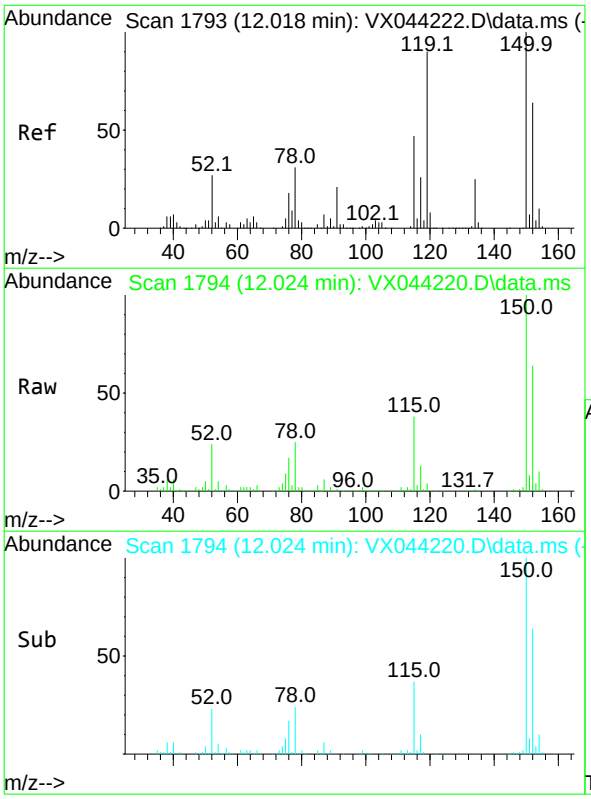
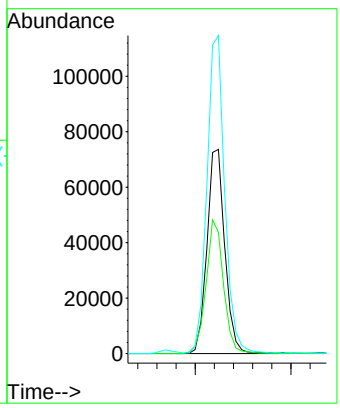
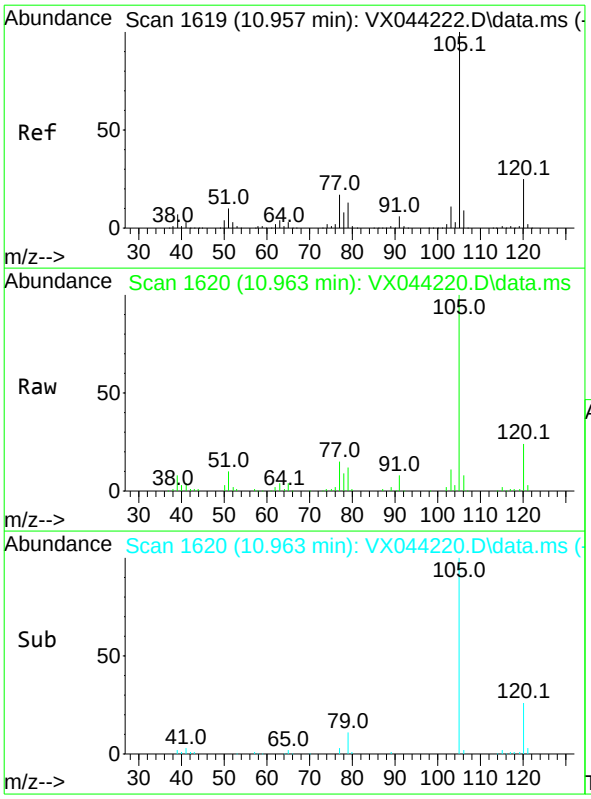


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:152 Resp: 95175

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.5	133.3
150	154.3	0.0	353.8

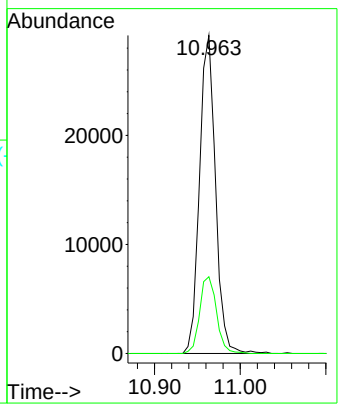




#73
Isopropylbenzene
Concen: 5.194 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 37843

Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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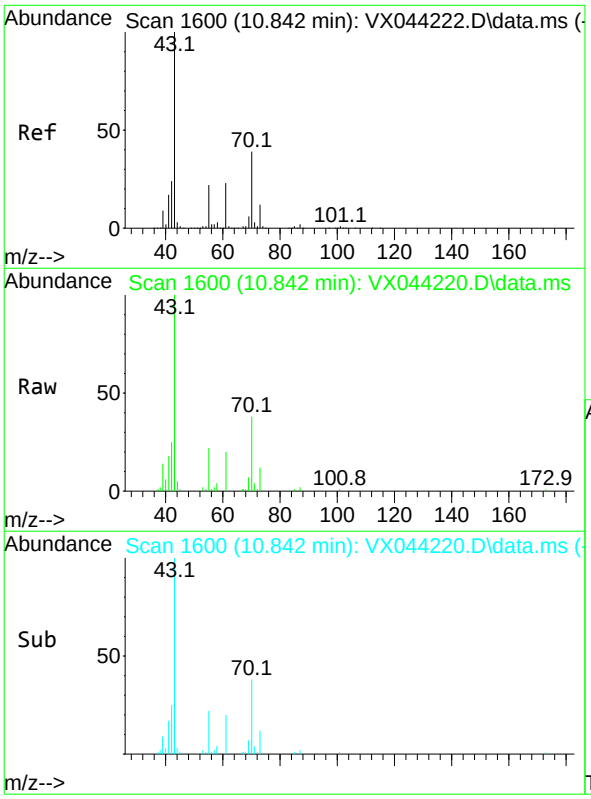
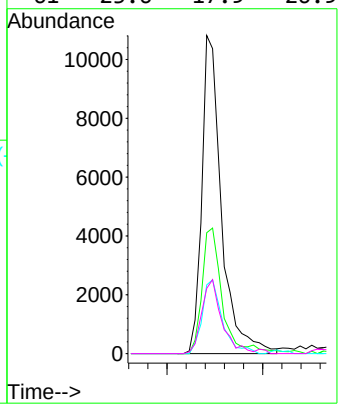
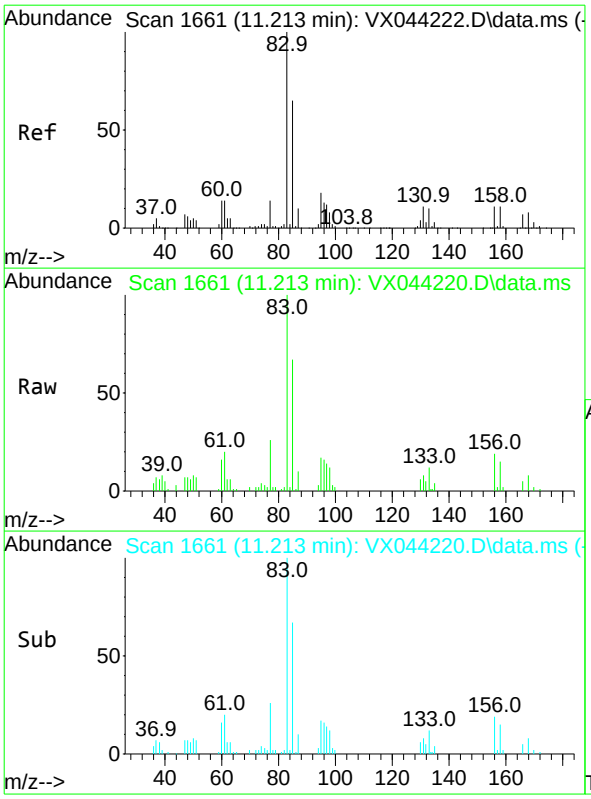


#74
N-amyl acetate
Concen: 4.579 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 15418

Ion	Ratio	Lower	Upper
43	100		
70	41.2	31.9	47.9
55	23.7	17.9	26.9
61	23.6	17.9	26.9

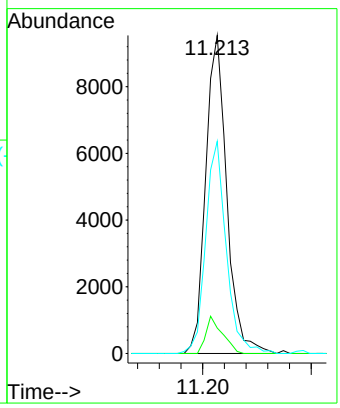




#75
1,1,2,2-Tetrachloroethane
Concen: 5.077 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 12848

Ion	Ratio	Lower	Upper
83	100		
131	9.1	5.1	15.4
85	65.3	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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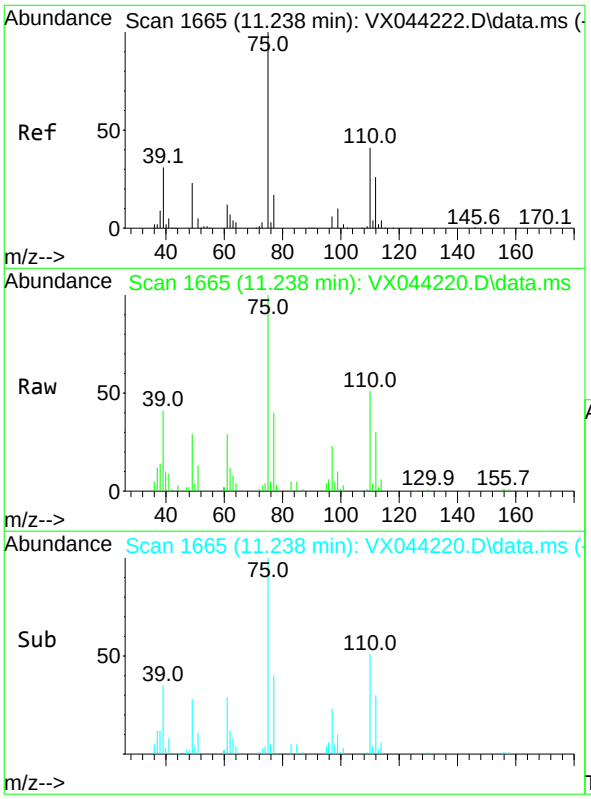
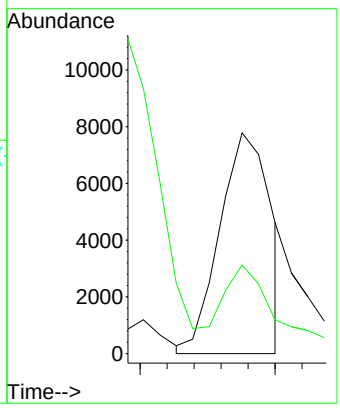
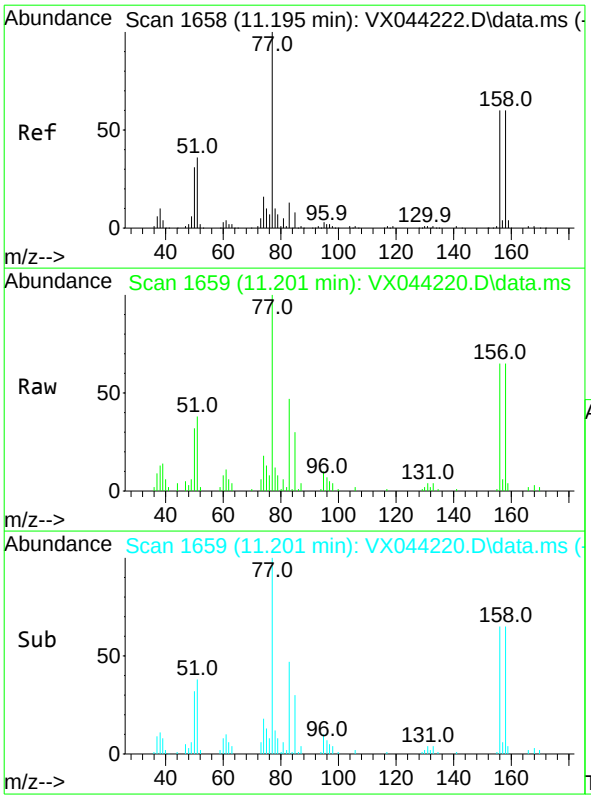


#76
1,2,3-Trichloropropane
Concen: 4.740 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 10236

Ion	Ratio	Lower	Upper
75	100		
77	45.4	20.9	62.7

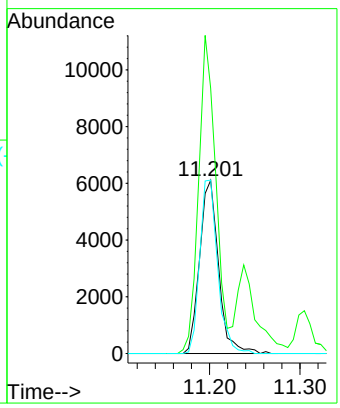




#77
Bromobenzene
Concen: 5.033 ug/l
RT: 11.201 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:156 Resp: 8892

Ion	Ratio	Lower	Upper
156	100		
77	165.4	82.6	247.8
158	94.7	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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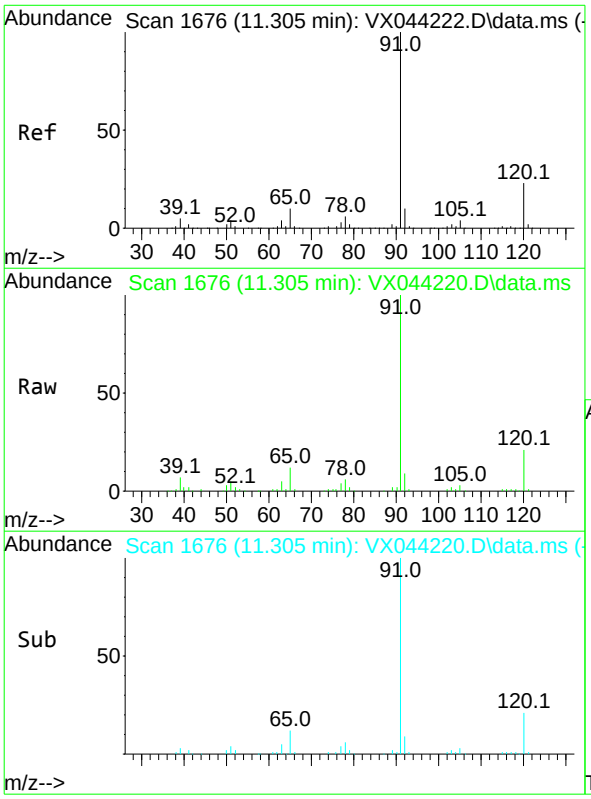
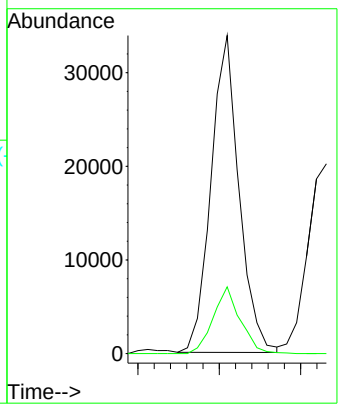
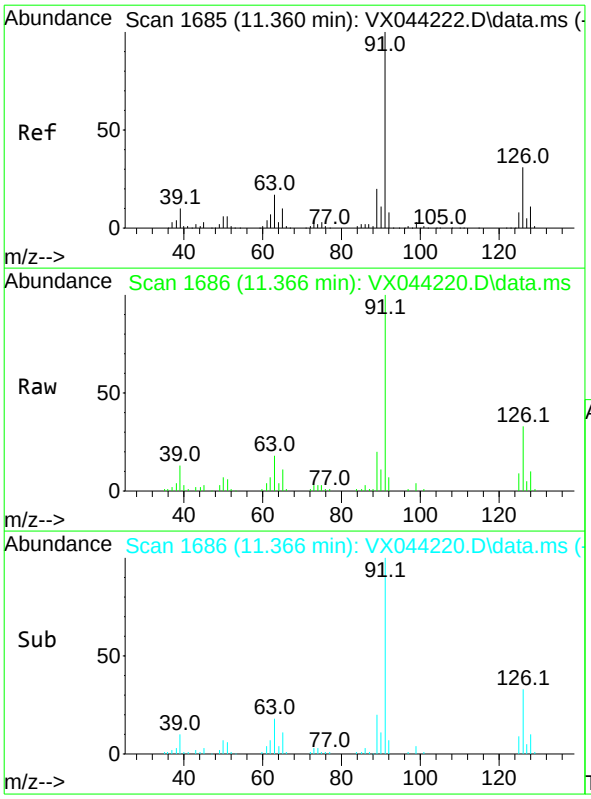


#78
n-propylbenzene
Concen: 5.038 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 40574

Ion	Ratio	Lower	Upper
91	100		
120	20.3	11.0	33.0

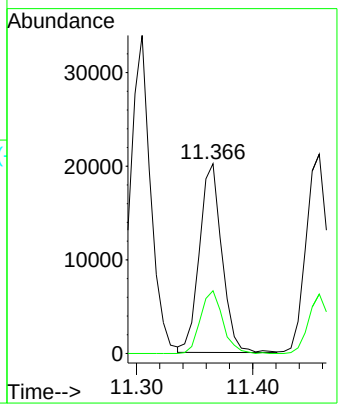




#79
2-Chlorotoluene
Concen: 5.203 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 27096

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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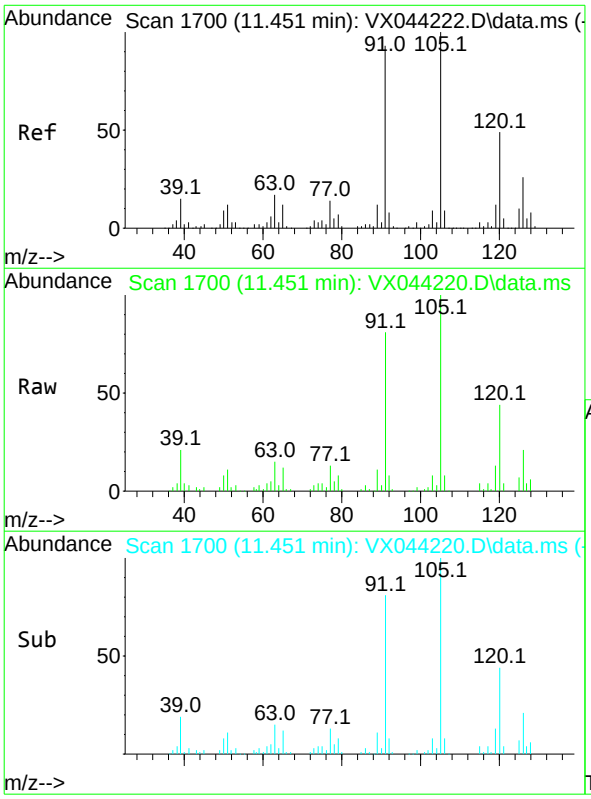
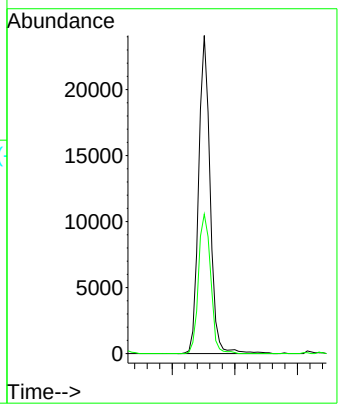
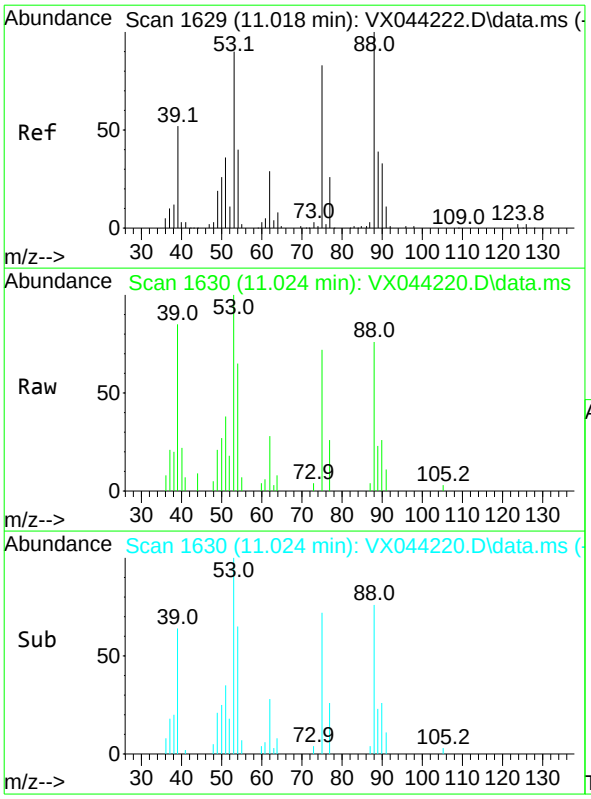


#80
1,3,5-Trimethylbenzene
Concen: 5.075 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 30665

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.8	71.4

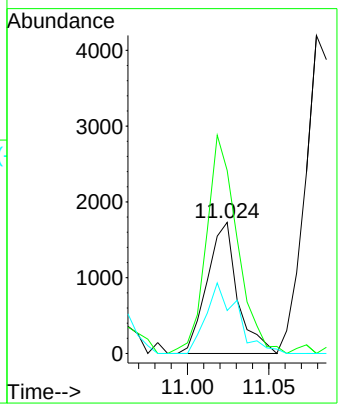




#81
trans-1,4-Dichloro-2-butene
Concen: 8.273 ug/l
RT: 11.024 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 2249

Ion	Ratio	Lower	Upper
75	100		
53	168.9	93.6	140.4#
89	55.5	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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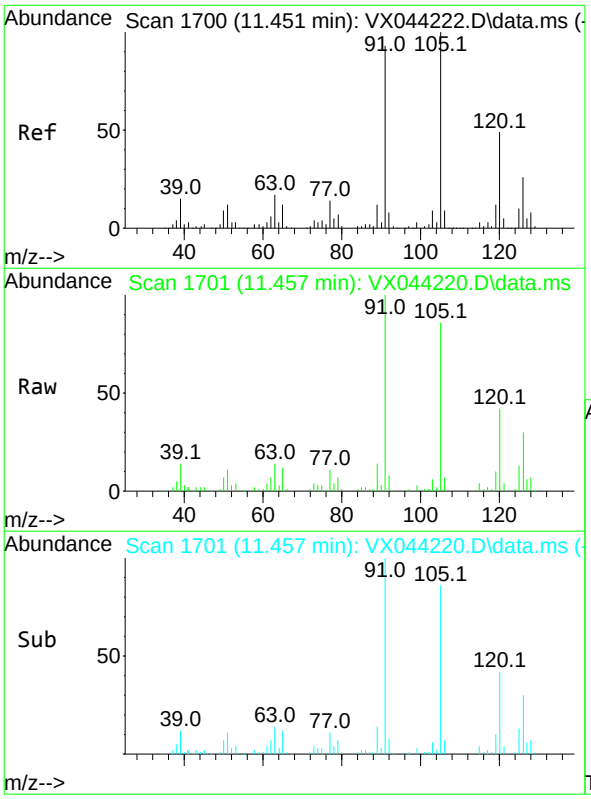
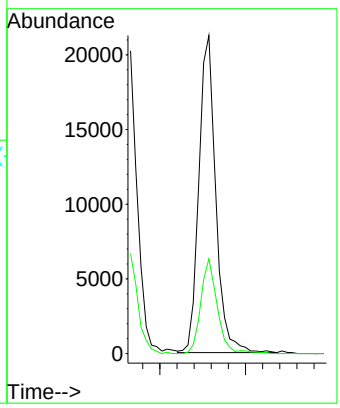
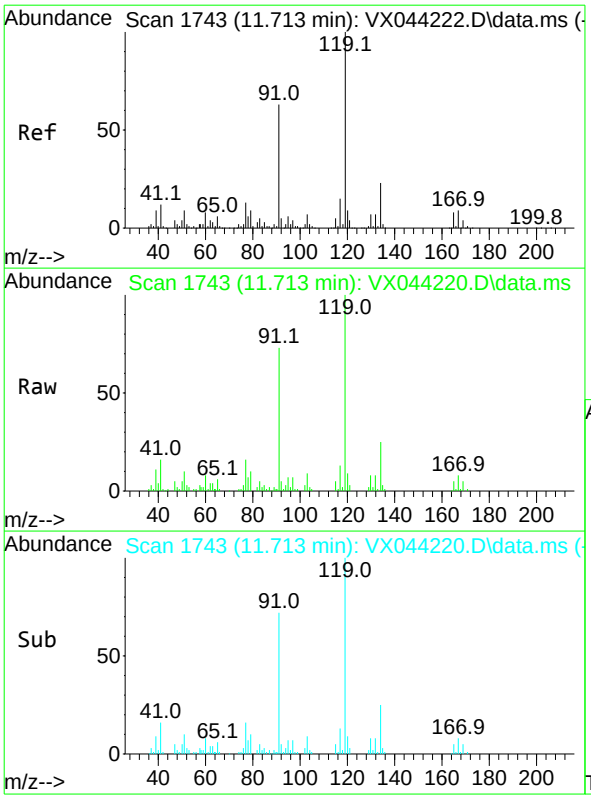


#82
4-Chlorotoluene
Concen: 5.035 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 29039

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5

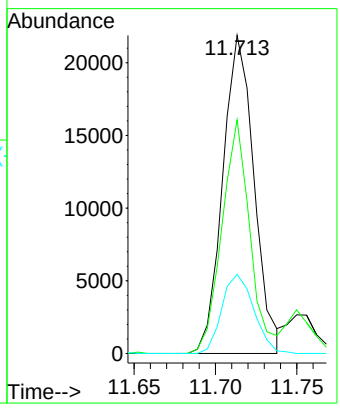




#83
tert-Butylbenzene
Concen: 4.904 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:119 Resp: 29283

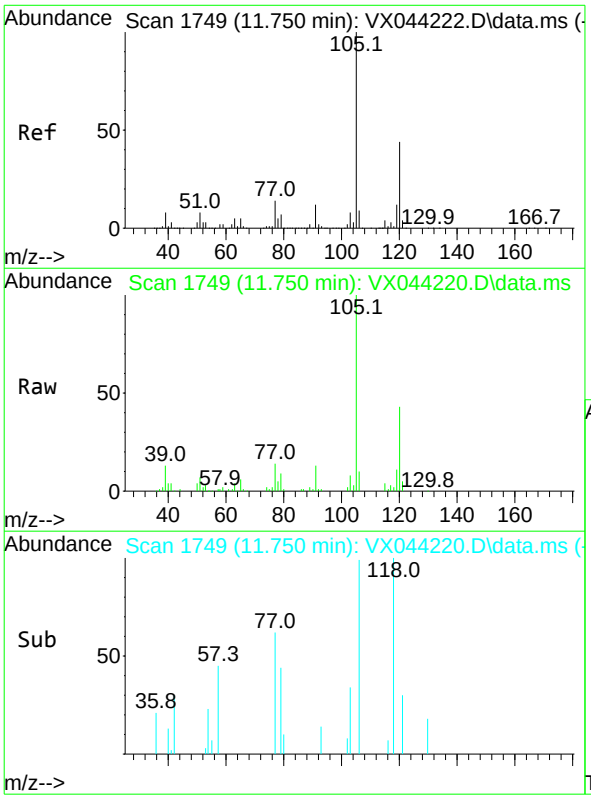
Ion	Ratio	Lower	Upper
119	100		
91	65.9	30.9	92.5
134	25.3	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

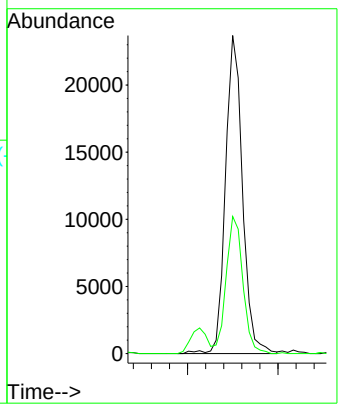
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

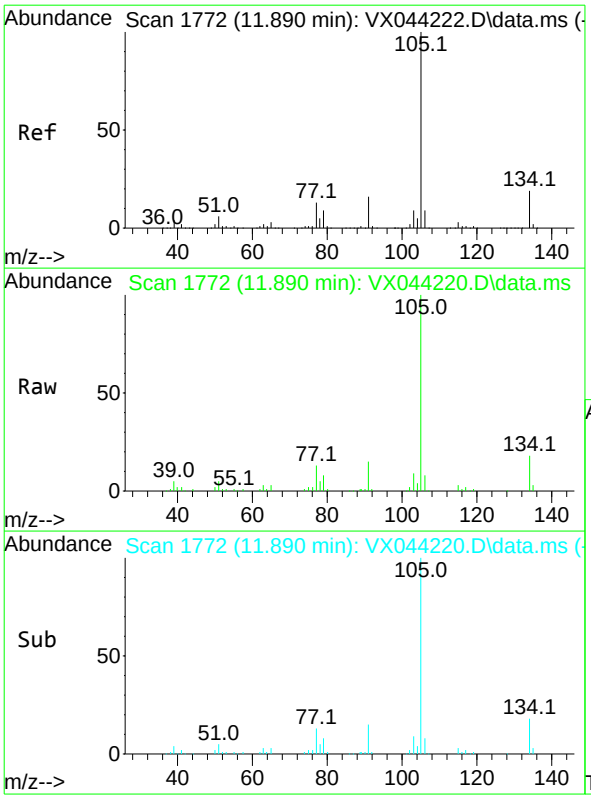


#84
1,2,4-Trimethylbenzene
Concen: 5.219 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 30970

Ion	Ratio	Lower	Upper
105	100		
120	42.6	21.7	65.1

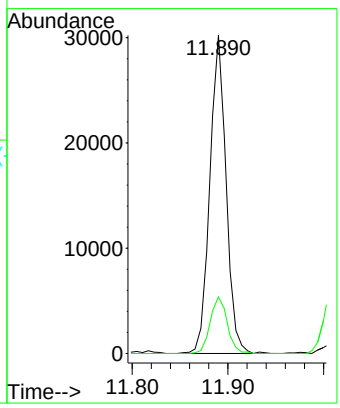




#85
sec-Butylbenzene
Concen: 4.921 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 35670

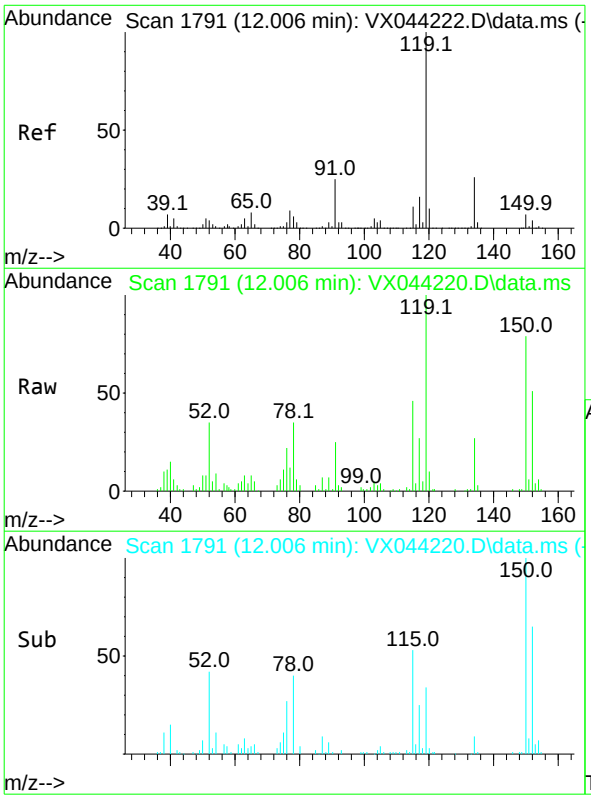
Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

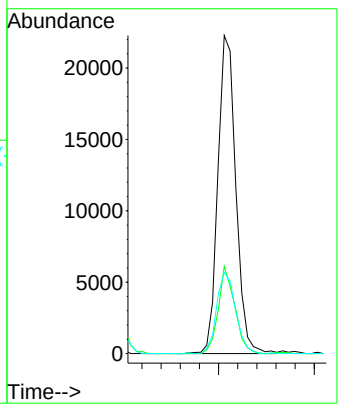
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

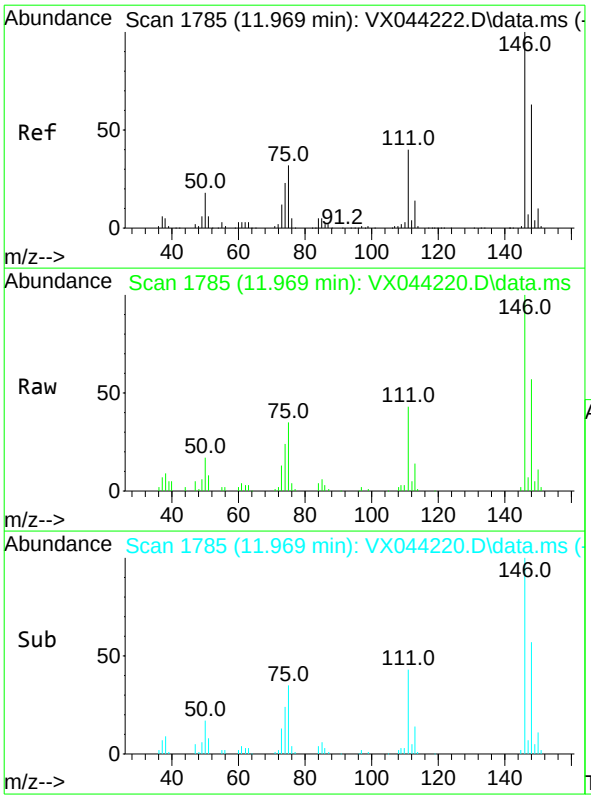


#86
p-Isopropyltoluene
Concen: 4.828 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:119 Resp: 29132

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.8	38.4
91	26.9	13.0	39.0

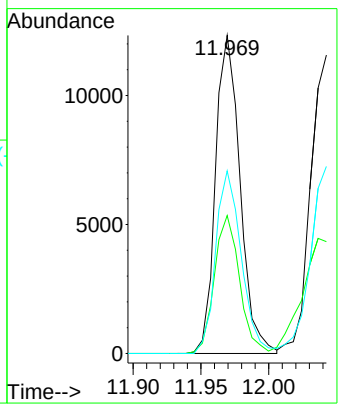




#87
1,3-Dichlorobenzene
Concen: 5.039 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:146 Resp: 15553

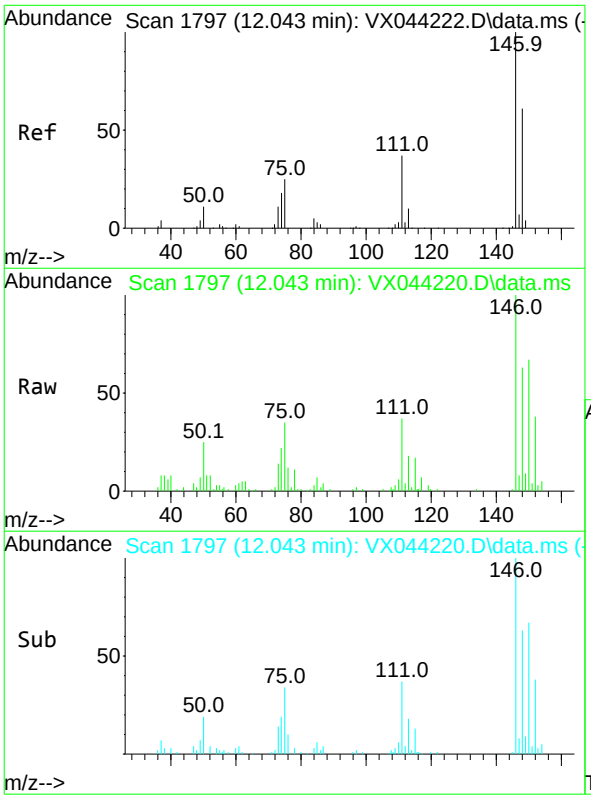
Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.2
148	60.1	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

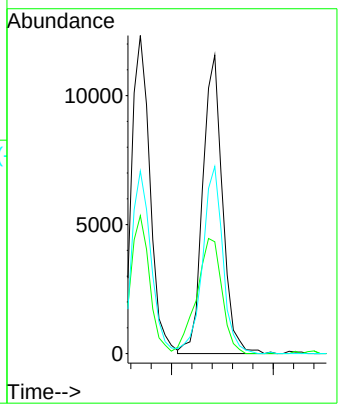
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

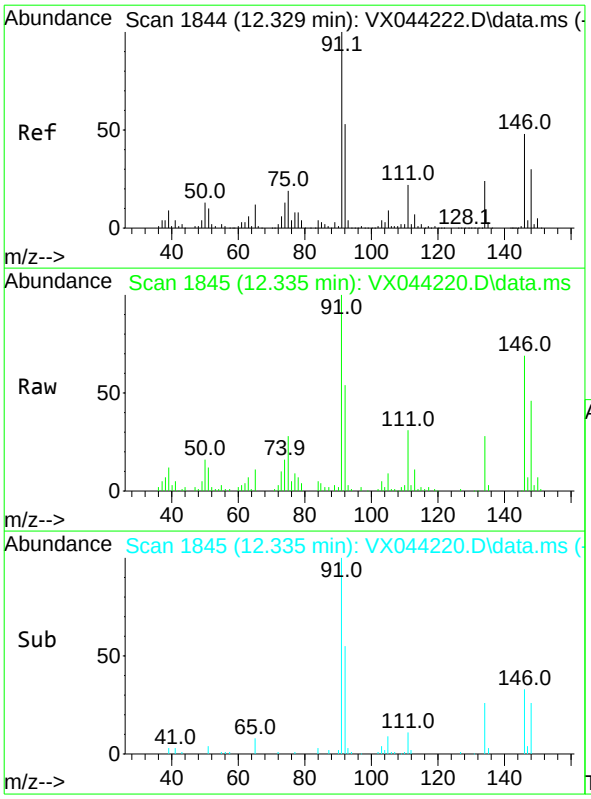


#88
1,4-Dichlorobenzene
Concen: 4.920 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:146 Resp: 15609

Ion	Ratio	Lower	Upper
146	100		
111	49.5	21.0	63.0
148	64.1	32.3	96.8

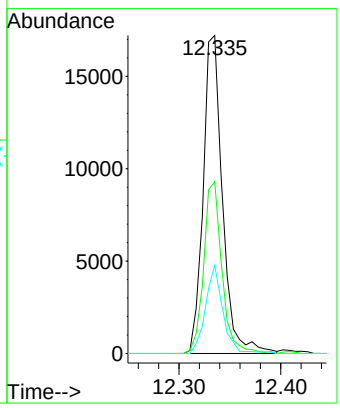




#89
n-Butylbenzene
Concen: 4.478 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 22719

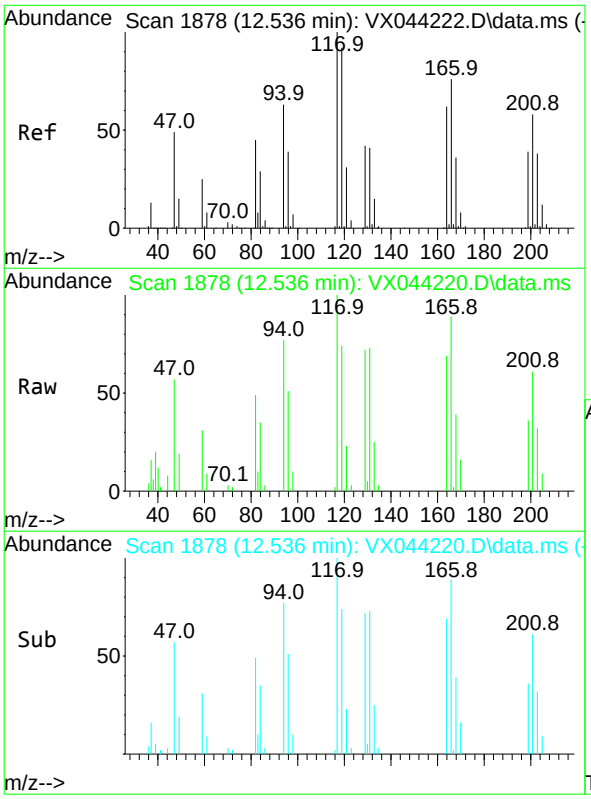
Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.6	79.7
134	24.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

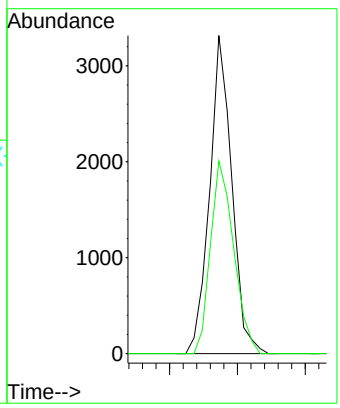
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

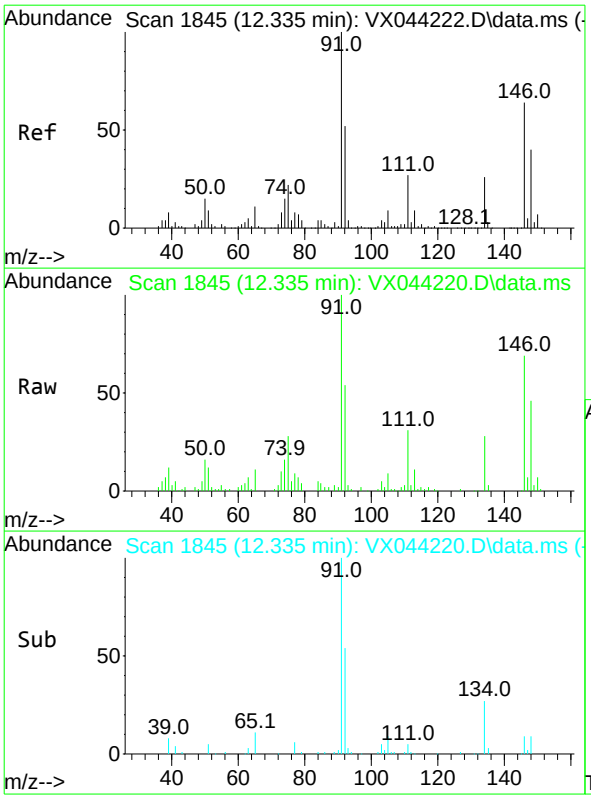


#90
Hexachloroethane
Concen: 4.275 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 3765

Ion	Ratio	Lower	Upper
117	100		
201	63.5	31.4	94.2

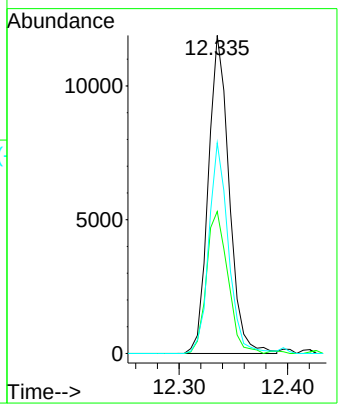




#91
1,2-Dichlorobenzene
Concen: 4.949 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:146 Resp: 15858

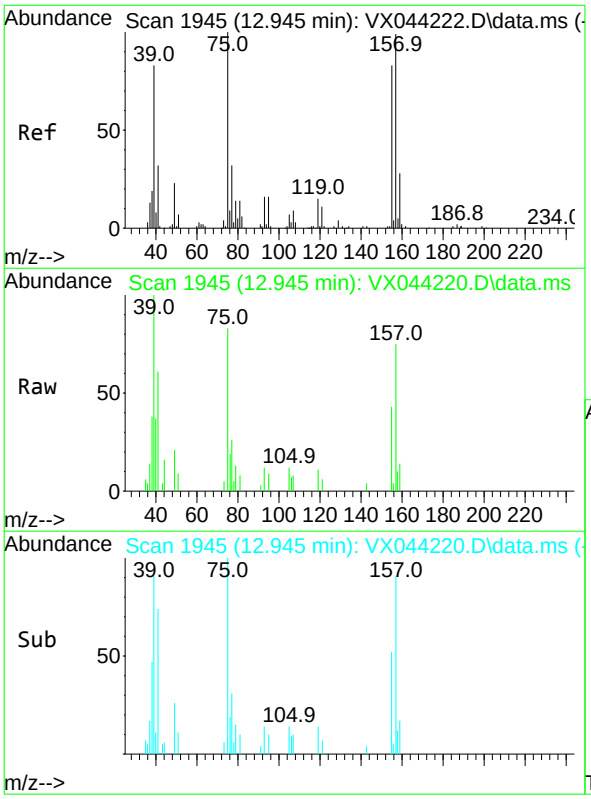
Ion	Ratio	Lower	Upper
146	100		
111	45.8	21.4	64.3
148	62.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

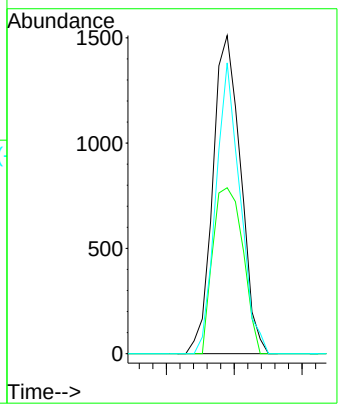
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

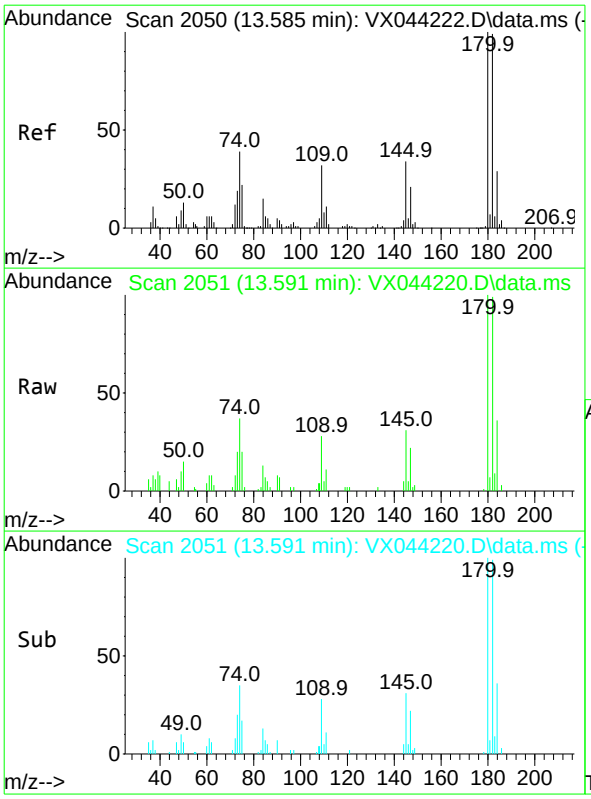


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.385 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 2154

Ion	Ratio	Lower	Upper
75	100		
155	56.5	38.1	114.3
157	79.4	47.2	141.6

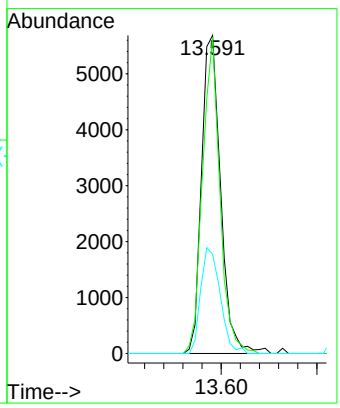




#93
1,2,4-Trichlorobenzene
Concen: 4.478 ug/l
RT: 13.591 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:180 Resp: 7867

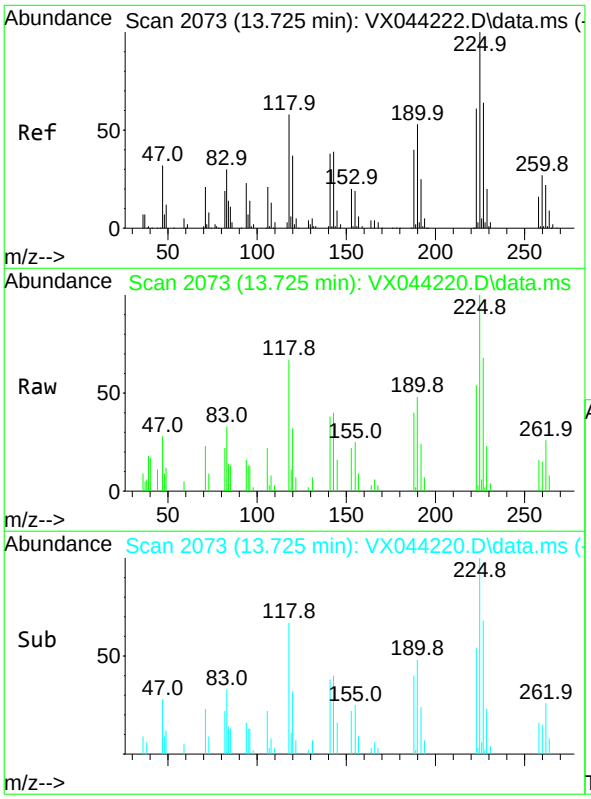
Ion	Ratio	Lower	Upper
180	100		
182	90.8	48.0	144.2
145	33.9	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

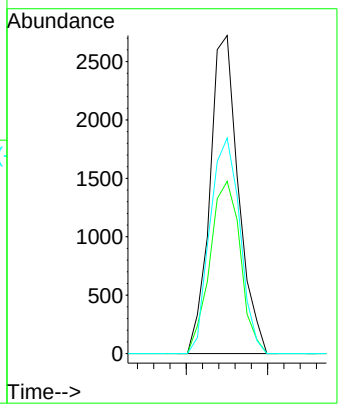
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

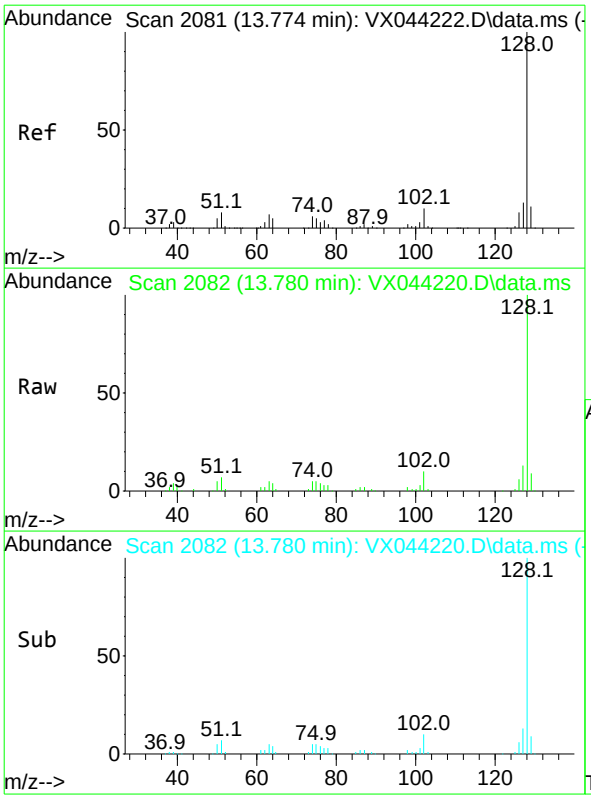


#94
Hexachlorobutadiene
Concen: 4.700 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:225 Resp: 3321

Ion	Ratio	Lower	Upper
225	100		
223	57.9	30.8	92.4
227	71.2	32.1	96.3

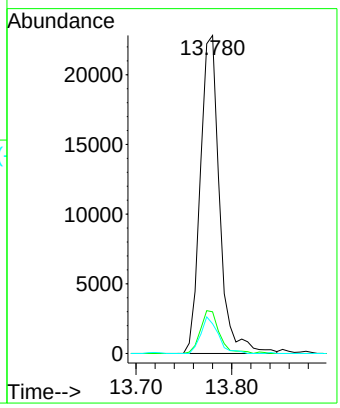




#95
Naphthalene
Concen: 4.643 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:128 Resp: 31842

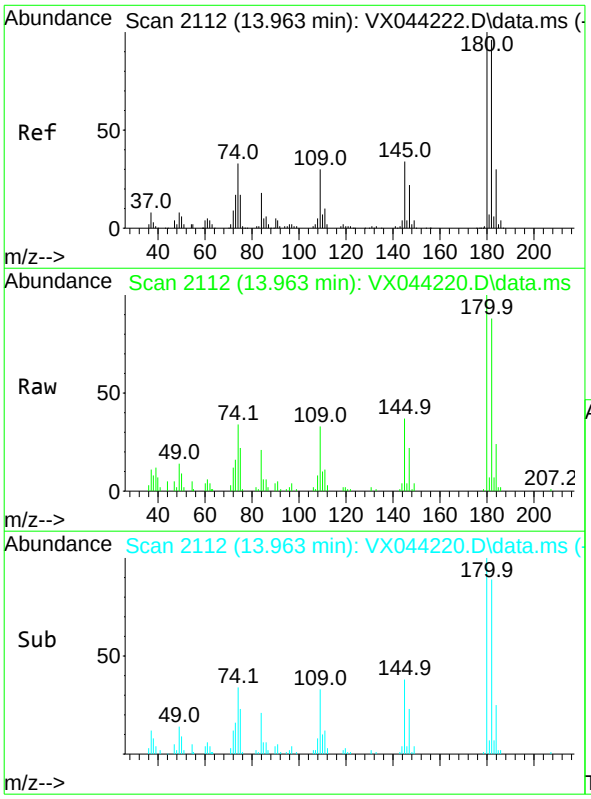
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.3	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

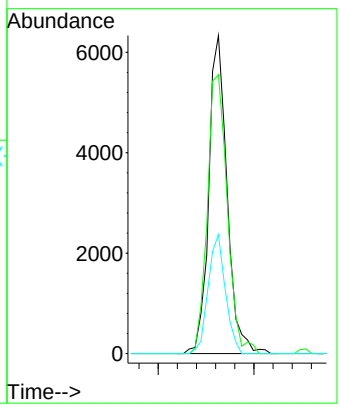
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 4.520 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:180 Resp: 8422

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.0	144.0
145	35.2	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	134436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	254199	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	218148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98180	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	41821	17.743	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	35.480%#		
35) Dibromofluoromethane	5.391	113	30304	17.213	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	34.420%#		
50) Toluene-d8	8.647	98	102660	17.284	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	34.560%#		
62) 4-Bromofluorobenzene	11.079	95	35645	17.175	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	34.340%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	38748	18.640	ug/l	90
3) Chloromethane	1.294	50	39546	19.894	ug/l	100
4) Vinyl Chloride	1.374	62	42048	20.304	ug/l	97
5) Bromomethane	1.593	94	27604	18.789	ug/l	94
6) Chloroethane	1.666	64	27673	21.460	ug/l	94
7) Trichlorofluoromethane	1.867	101	81398	20.077	ug/l	99
8) Diethyl Ether	2.136	74	25884	18.704	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31846	19.412	ug/l	99
10) Methyl Iodide	2.441	142	42786	19.788	ug/l	99
11) Tert butyl alcohol	3.001	59	29819m	89.904	ug/l	
12) 1,1-Dichloroethene	2.306	96	29241	19.405	ug/l	92
13) Acrolein	2.239	56	43909	91.311	ug/l	97
14) Allyl chloride	2.654	41	47218	18.813	ug/l	98
15) Acrylonitrile	3.068	53	89249	96.988	ug/l	99
16) Acetone	2.392	43	88985	92.601	ug/l	95
17) Carbon Disulfide	2.502	76	50399	17.595	ug/l	98
18) Methyl Acetate	2.709	43	47509	19.175	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	114371	19.450	ug/l	100
20) Methylene Chloride	2.782	84	35820	19.846	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	31036	19.380	ug/l	97
22) Diisopropyl ether	3.764	45	112511	19.907	ug/l	94
23) Vinyl Acetate	3.721	43	465716	101.354	ug/l	100
24) 1,1-Dichloroethane	3.605	63	62059	19.699	ug/l	98
25) 2-Butanone	4.568	43	136992	100.277	ug/l	99
26) 2,2-Dichloropropane	4.471	77	51431	20.095	ug/l #	74
27) cis-1,2-Dichloroethene	4.477	96	39161	19.254	ug/l	99
28) Bromochloromethane	4.891	49	30977	20.052	ug/l	95
29) Tetrahydrofuran	5.013	42	86235	98.343	ug/l	99
30) Chloroform	5.093	83	68410	19.327	ug/l	97
31) Cyclohexane	5.458	56	51773	20.351	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	57900	19.706	ug/l	99
36) 1,1-Dichloropropene	5.690	75	42878	18.841	ug/l	99
37) Ethyl Acetate	4.727	43	56019	19.913	ug/l	99
38) Carbon Tetrachloride	5.672	117	43901	17.918	ug/l	92
39) Methylcyclohexane	7.379	83	53536	19.678	ug/l	97
40) Benzene	6.031	78	135467	19.606	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	28523	19.095	ug/l		94
42) 1,2-Dichloroethane	6.086	62	55377	19.456	ug/l		98
43) Isopropyl Acetate	6.342	43	84866	19.301	ug/l		100
44) Trichloroethene	7.123	130	32995	19.149	ug/l		96
45) 1,2-Dichloropropane	7.427	63	33585	19.025	ug/l		97
46) Dibromomethane	7.580	93	26293	19.199	ug/l		99
47) Bromodichloromethane	7.818	83	44312	18.735	ug/l		99
48) Methyl methacrylate	7.696	41	40620	19.032	ug/l		98
49) 1,4-Dioxane	7.671	88	14281m	391.518	ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	278267	98.429	ug/l		100
52) Toluene	8.714	92	82934	19.113	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	44614	18.785	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	49596	19.258	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	34013	19.732	ug/l		98
56) Ethyl methacrylate	9.116	69	52571	19.318	ug/l		99
57) 1,3-Dichloropropane	9.305	76	59489	19.827	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	129900	94.642	ug/l		100
59) 2-Hexanone	9.433	43	207578	101.440	ug/l		99
60) Dibromochloromethane	9.519	129	31066	18.318	ug/l		97
61) 1,2-Dibromoethane	9.610	107	34978	19.935	ug/l		98
64) Tetrachloroethene	9.275	164	27702	19.133	ug/l		97
65) Chlorobenzene	10.079	112	90631	19.389	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	29132	19.392	ug/l		99
67) Ethyl Benzene	10.195	91	158455	19.619	ug/l		98
68) m/p-Xylenes	10.299	106	116126	39.183	ug/l		98
69) o-Xylene	10.640	106	59787	19.938	ug/l		99
70) Styrene	10.653	104	95883	19.946	ug/l		98
71) Bromoform	10.799	173	16924	18.112	ug/l	#	96
73) Isopropylbenzene	10.963	105	153935	20.481	ug/l		98
74) N-amyl acetate	10.842	43	69643	20.049	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	52312	20.039	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	43726m	19.627	ug/l		
77) Bromobenzene	11.195	156	34951	19.176	ug/l		98
78) n-propylbenzene	11.305	91	169622	20.419	ug/l		100
79) 2-Chlorotoluene	11.366	91	106310	19.788	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	126626	20.315	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	11784	19.264	ug/l		90
82) 4-Chlorotoluene	11.451	91	118309	19.886	ug/l		100
83) tert-Butylbenzene	11.713	119	121929	19.794	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	125939	20.574	ug/l		99
85) sec-Butylbenzene	11.890	105	150795	20.165	ug/l		99
86) p-Isopropyltoluene	12.006	119	127790	20.532	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	64399	20.228	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	64106	19.588	ug/l		99
89) n-Butylbenzene	12.329	91	104410	19.950	ug/l		99
90) Hexachloroethane	12.536	117	15939	17.543	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	65511	19.817	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9468	18.683	ug/l		97
93) 1,2,4-Trichlorobenzene	13.591	180	35001	19.313	ug/l		99
94) Hexachlorobutadiene	13.725	225	14415	19.774	ug/l		97
95) Naphthalene	13.774	128	142515	20.146	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	38639	20.101	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
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\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
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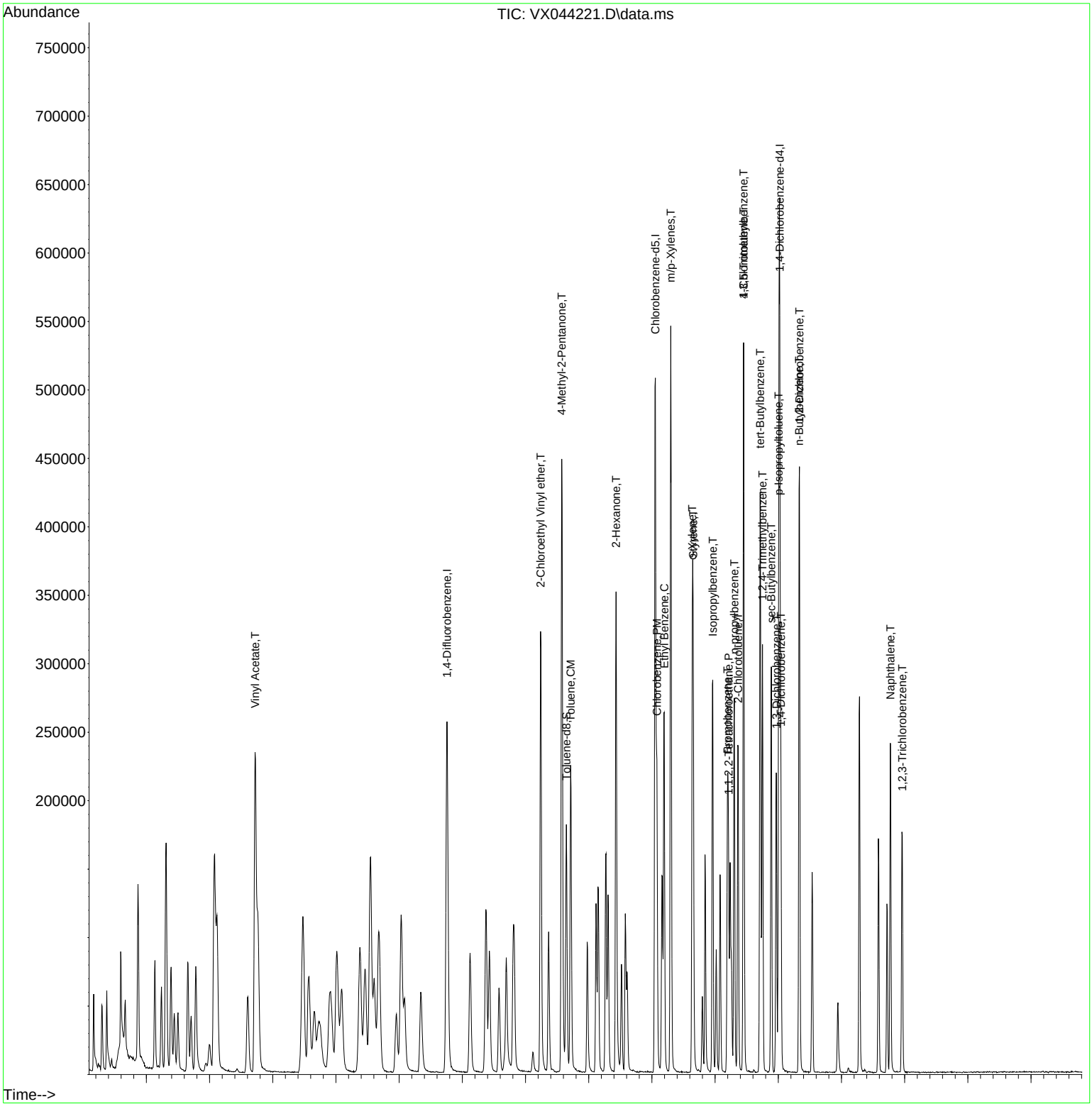
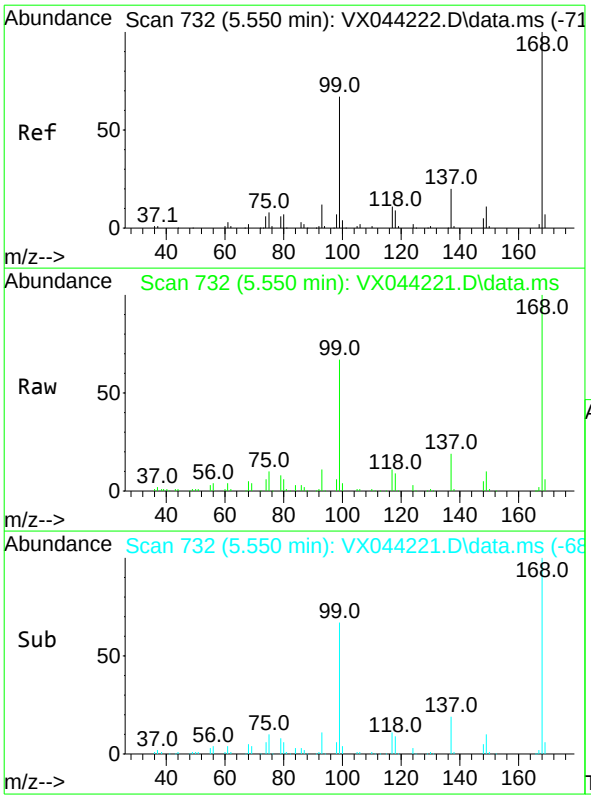
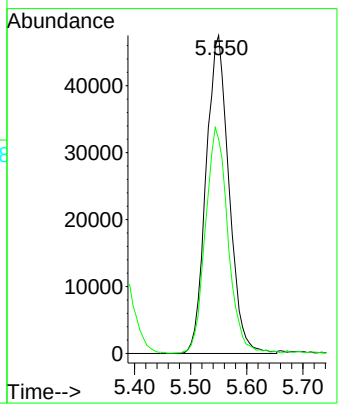




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:168 Resp: 134436

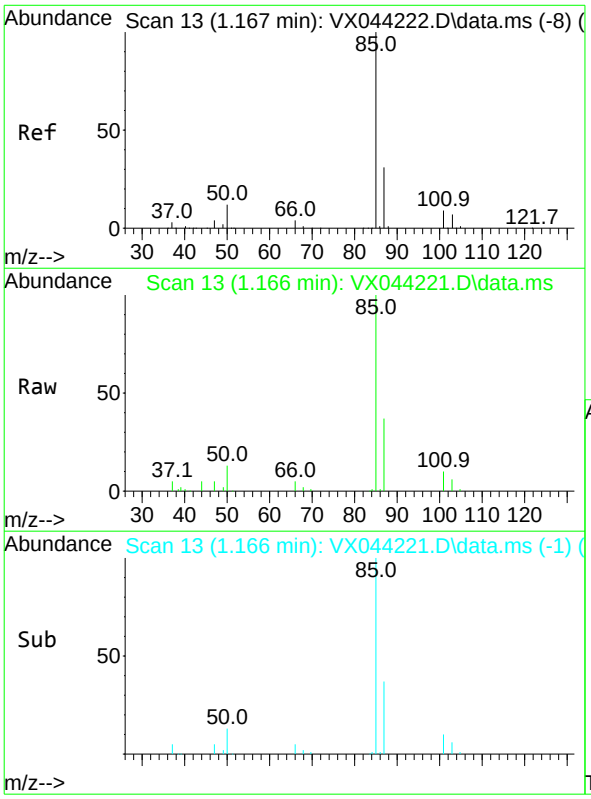
Ion	Ratio	Lower	Upper
168	100		
99	67.2	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

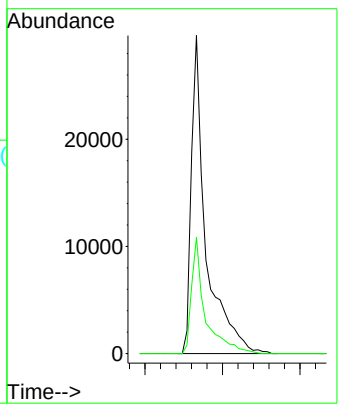
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

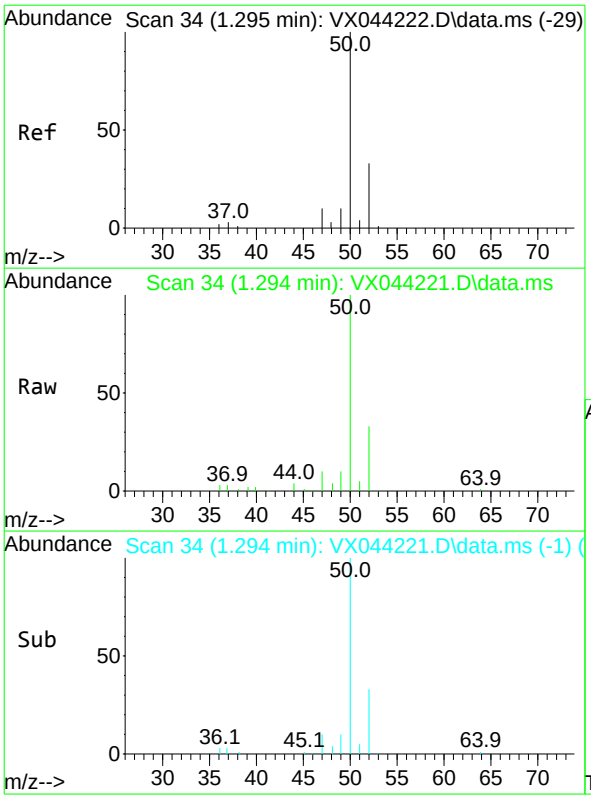


#2
Dichlorodifluoromethane
Concen: 18.640 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 85 Resp: 38748

Ion	Ratio	Lower	Upper
85	100		
87	36.6	15.4	46.4

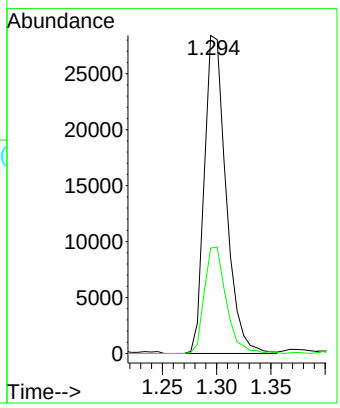




#3
Chloromethane
Concen: 19.894 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 50 Resp: 39546

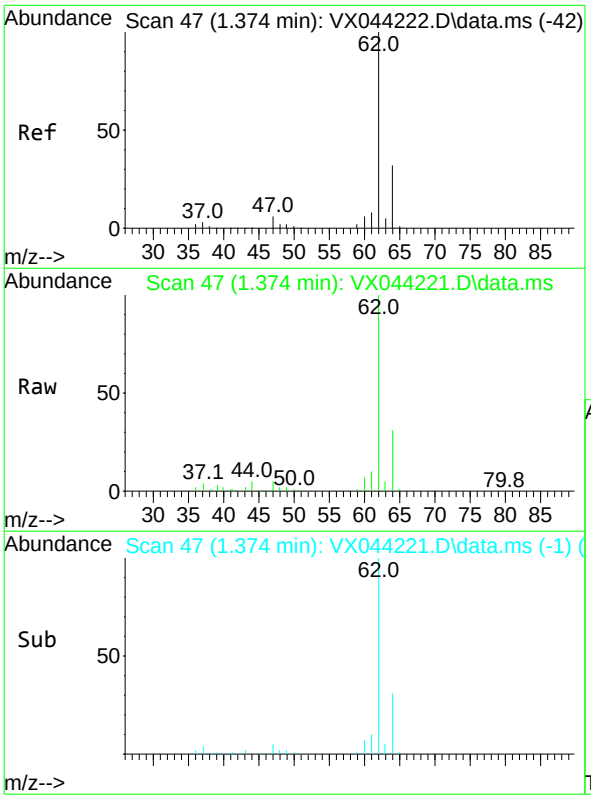
Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

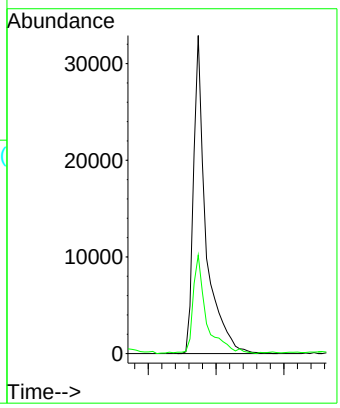
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

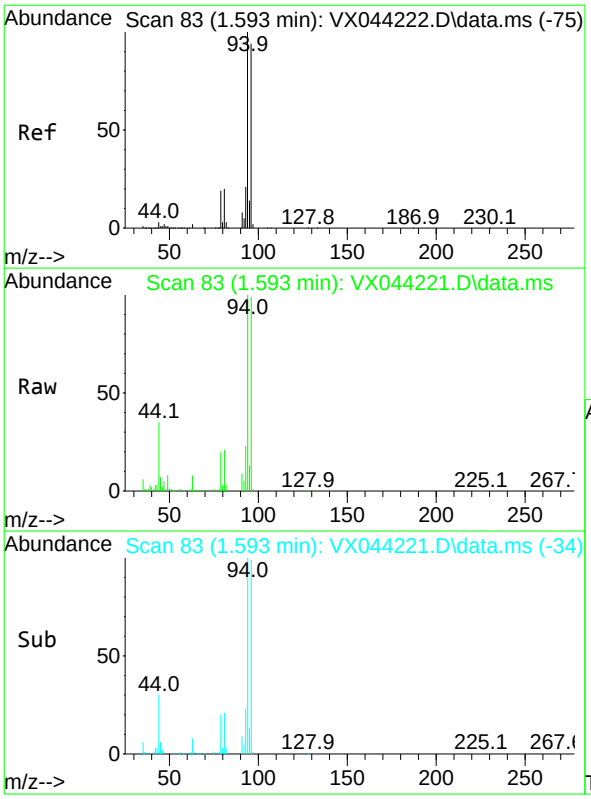


#4
Vinyl Chloride
Concen: 20.304 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 42048

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.7	38.5

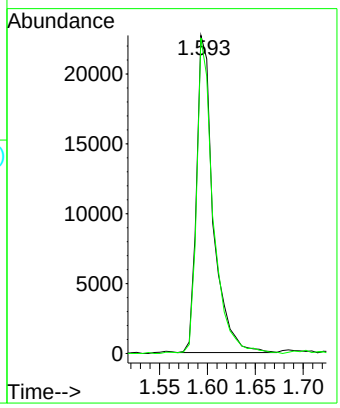




#5
Bromomethane
Concen: 18.789 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 94 Resp: 27604

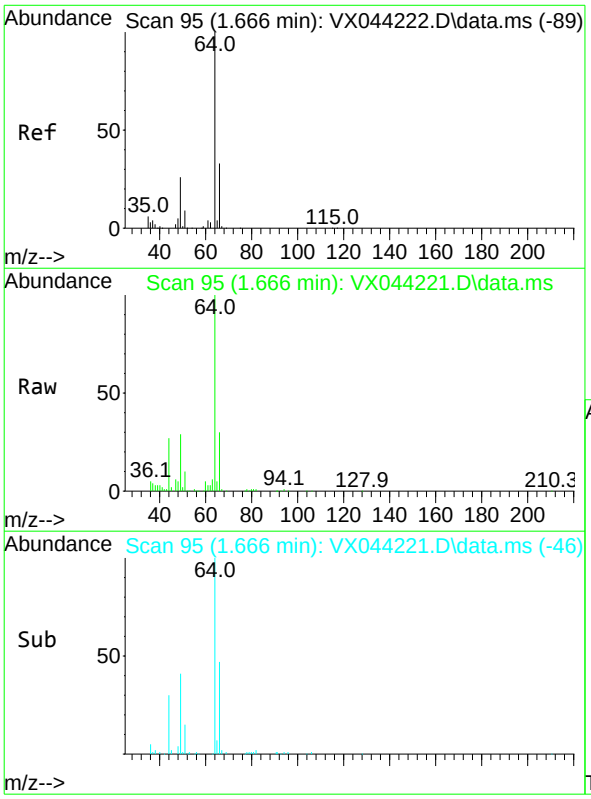
Ion	Ratio	Lower	Upper
94	100		
96	99.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

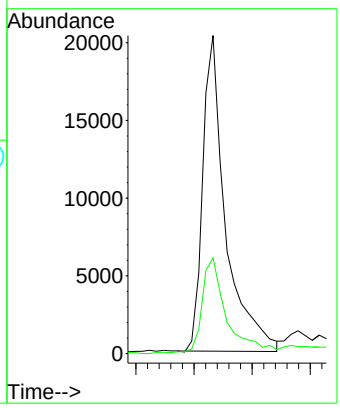
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

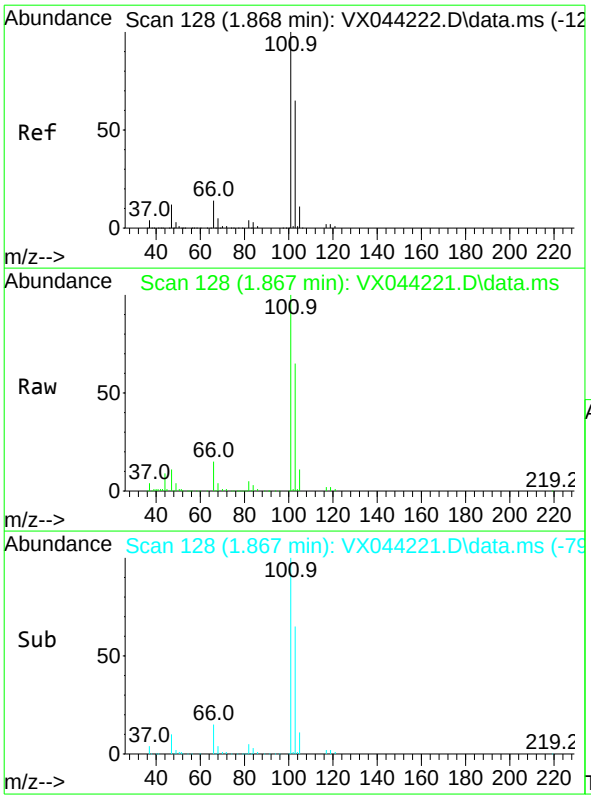


#6
Chloroethane
Concen: 21.460 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 64 Resp: 27673

Ion	Ratio	Lower	Upper
64	100		
66	29.8	26.6	39.8

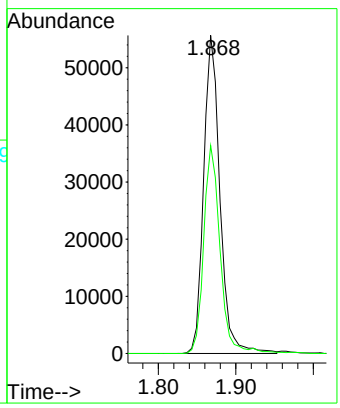




#7
Trichlorofluoromethane
Concen: 20.077 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:101 Resp: 81398

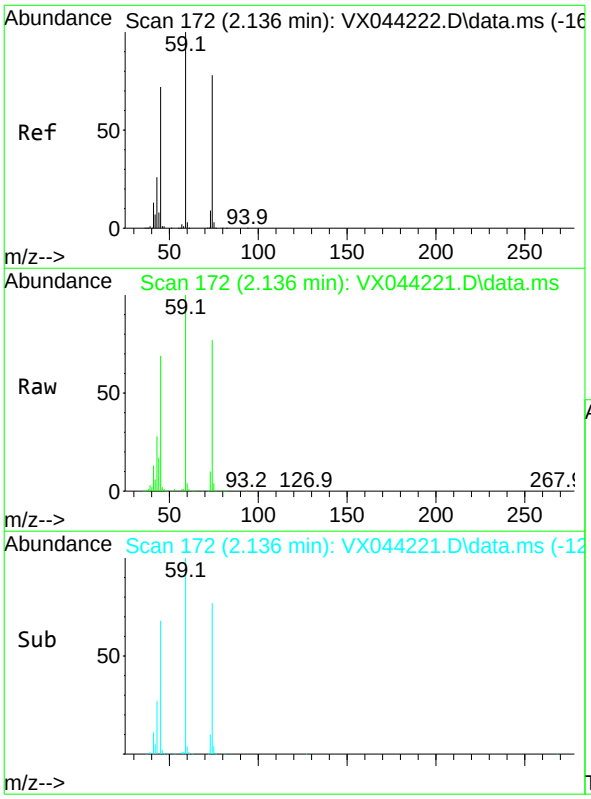
Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

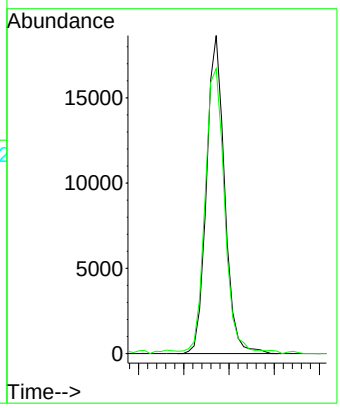
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

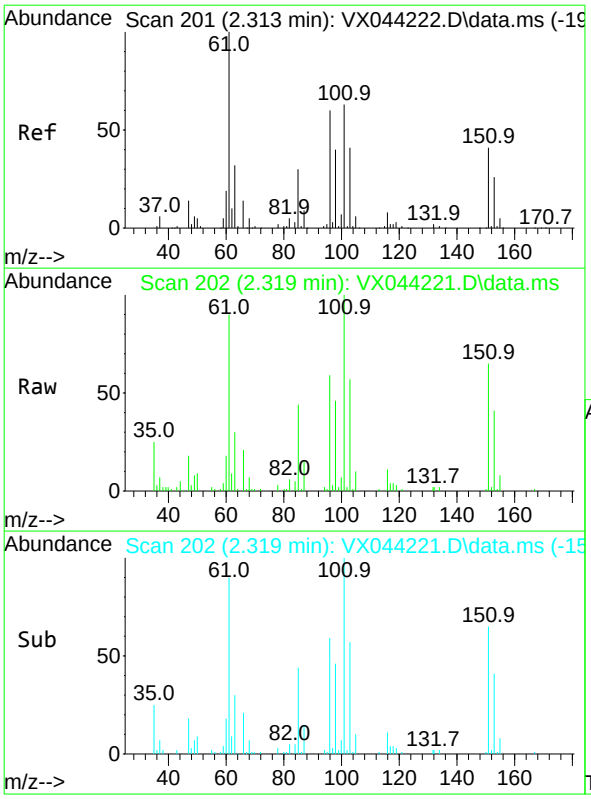


#8
Diethyl Ether
Concen: 18.704 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 74 Resp: 25884

Ion	Ratio	Lower	Upper
74	100		
45	97.8	48.4	145.0

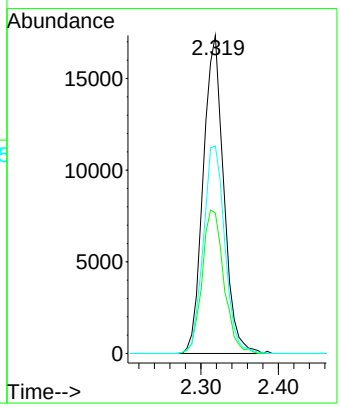




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.412 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:101 Resp: 31846

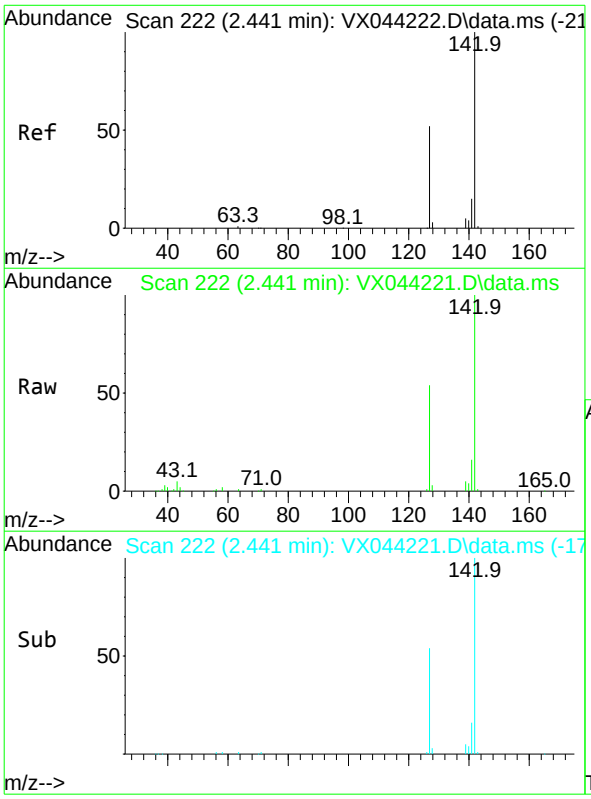
Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.5	57.7
151	68.6	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

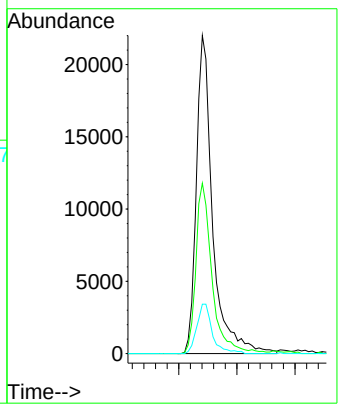
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

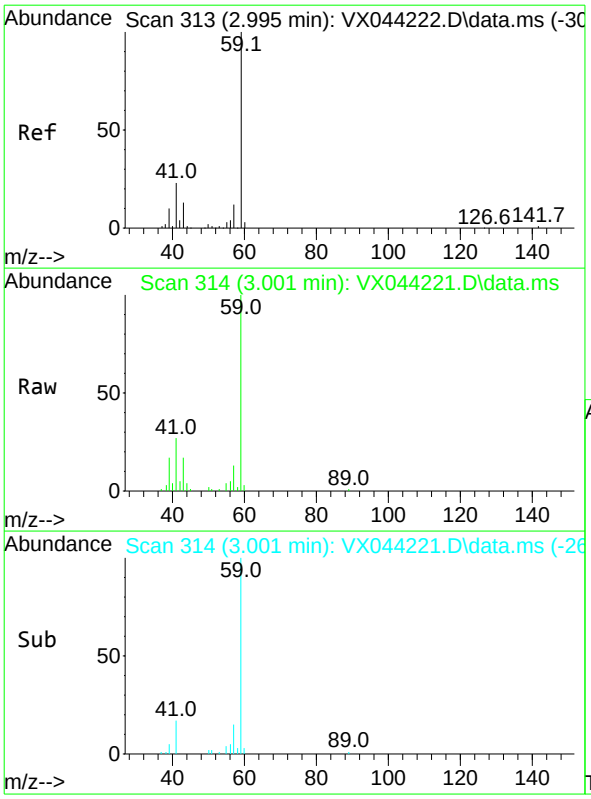


#10
Methyl Iodide
Concen: 19.788 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:142 Resp: 42786

Ion	Ratio	Lower	Upper
142	100		
127	52.9	41.8	62.8
141	14.8	11.5	17.3

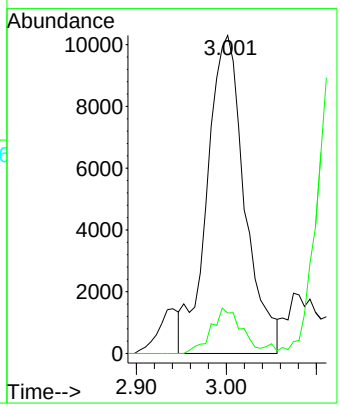




#11
Tert butyl alcohol
Concen: 89.904 ug/l m
RT: 3.001 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 59 Resp: 29819

Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
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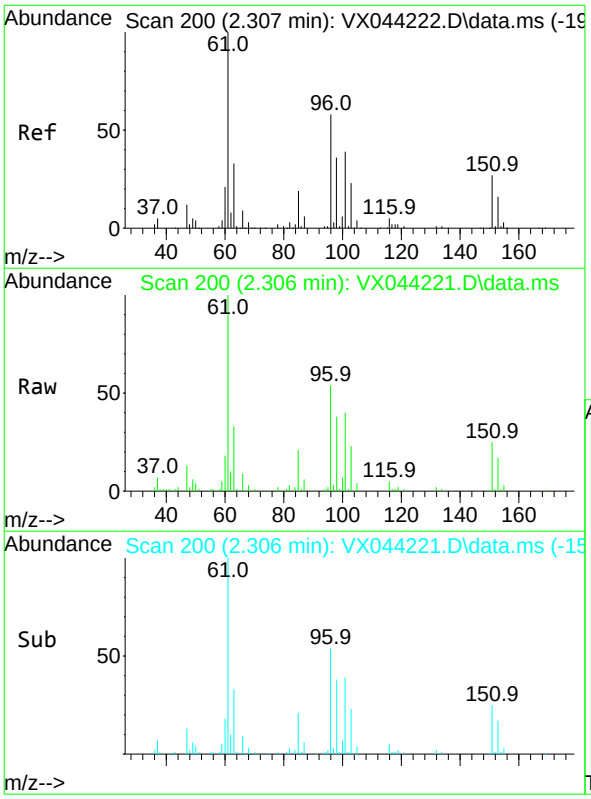
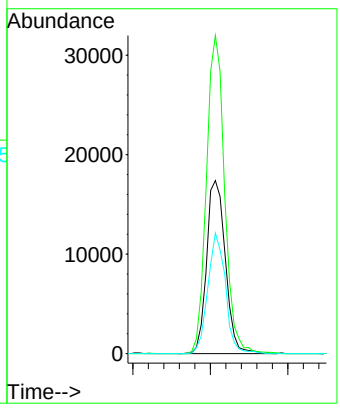
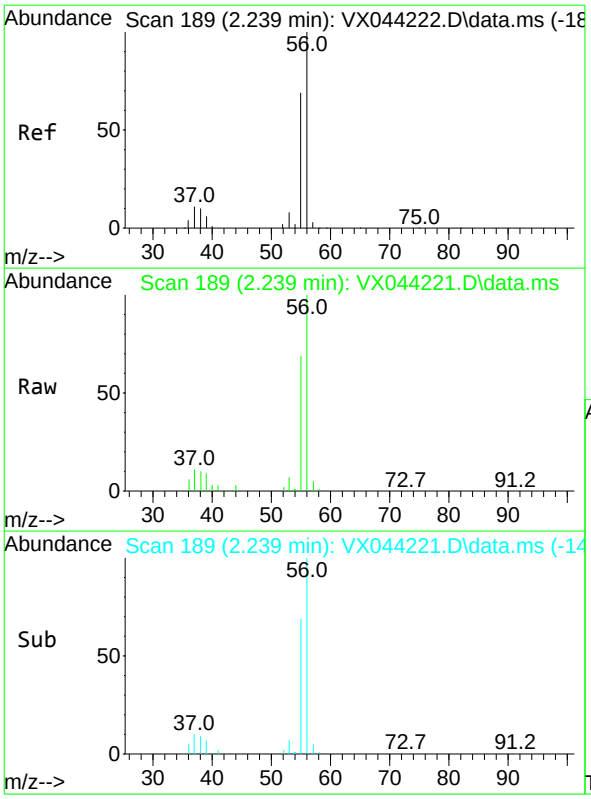


#12
1,1-Dichloroethene
Concen: 19.405 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 96 Resp: 29241

Ion	Ratio	Lower	Upper
96	100		
61	183.9	138.0	207.0
98	69.6	50.0	75.0

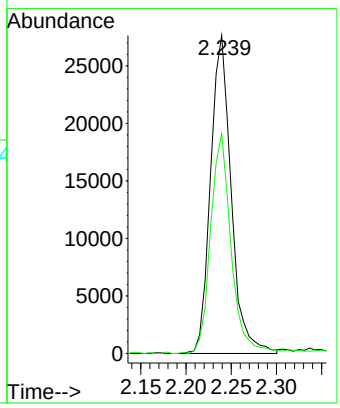




#13
Acrolein
Concen: 91.311 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 56 Resp: 43909

Ion	Ratio	Lower	Upper
56	100		
55	68.6	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
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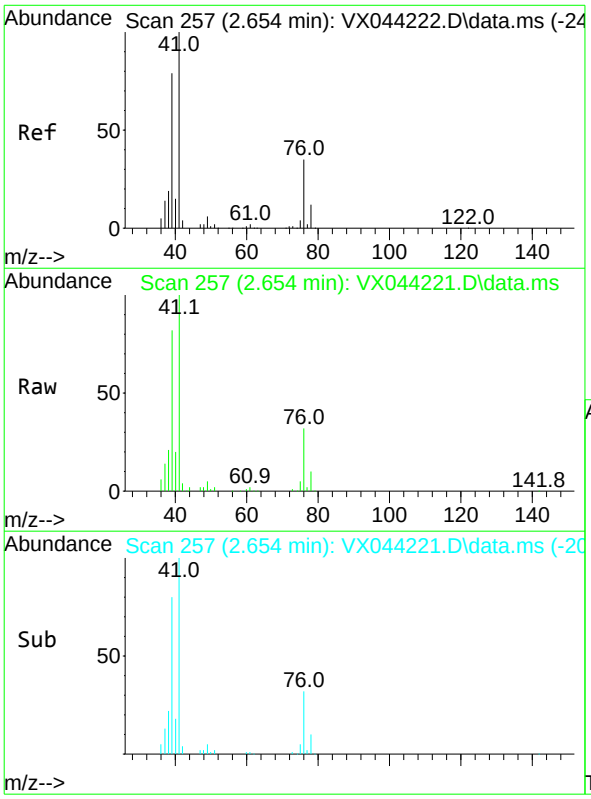
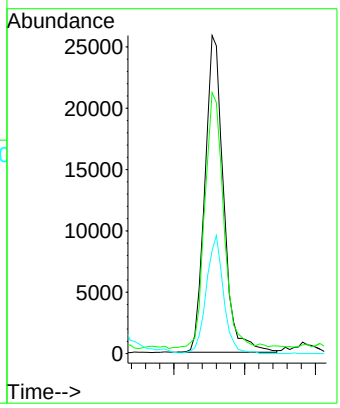
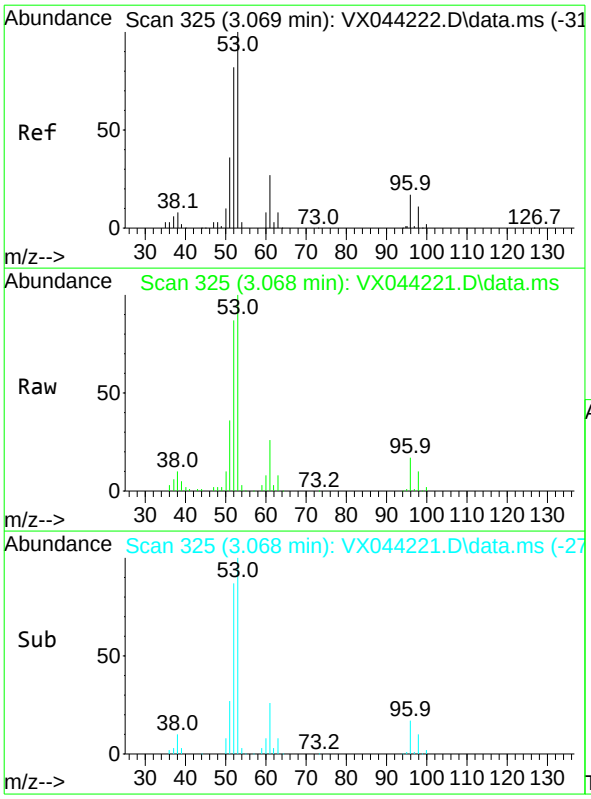


#14
Allyl chloride
Concen: 18.813 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 47218

Ion	Ratio	Lower	Upper
41	100		
39	80.4	61.9	92.9
76	34.5	27.4	41.2

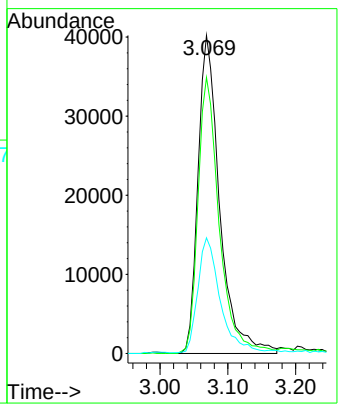




#15
Acrylonitrile
Concen: 96.988 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 53 Resp: 89249

Ion	Ratio	Lower	Upper
53	100		
52	85.1	67.4	101.0
51	37.1	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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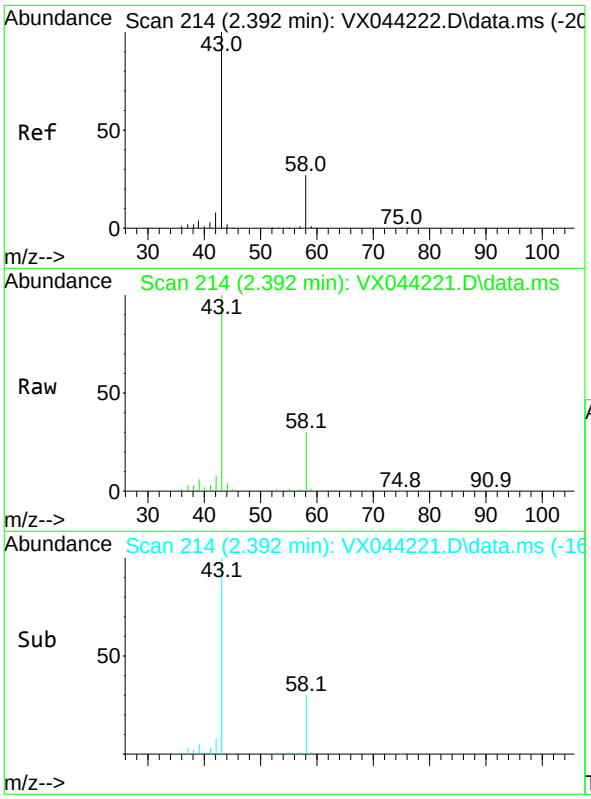
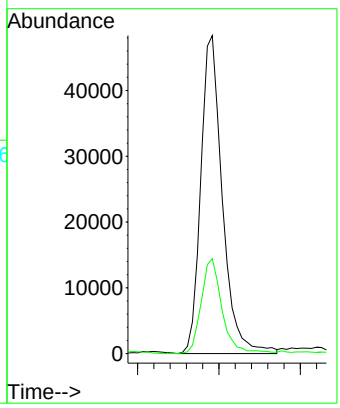
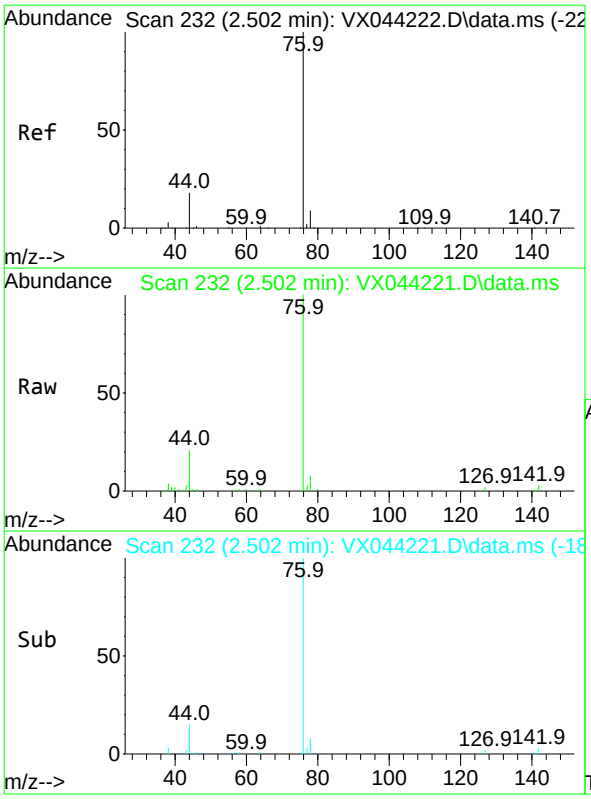


#16
Acetone
Concen: 92.601 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 88985

Ion	Ratio	Lower	Upper
43	100		
58	29.8	21.6	32.4

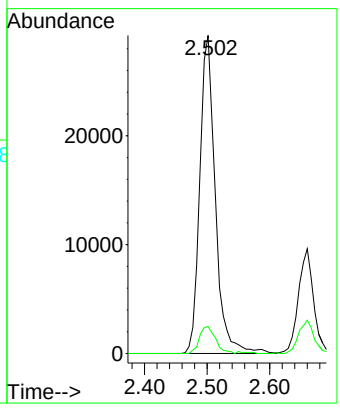




#17
Carbon Disulfide
Concen: 17.595 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 76 Resp: 50399

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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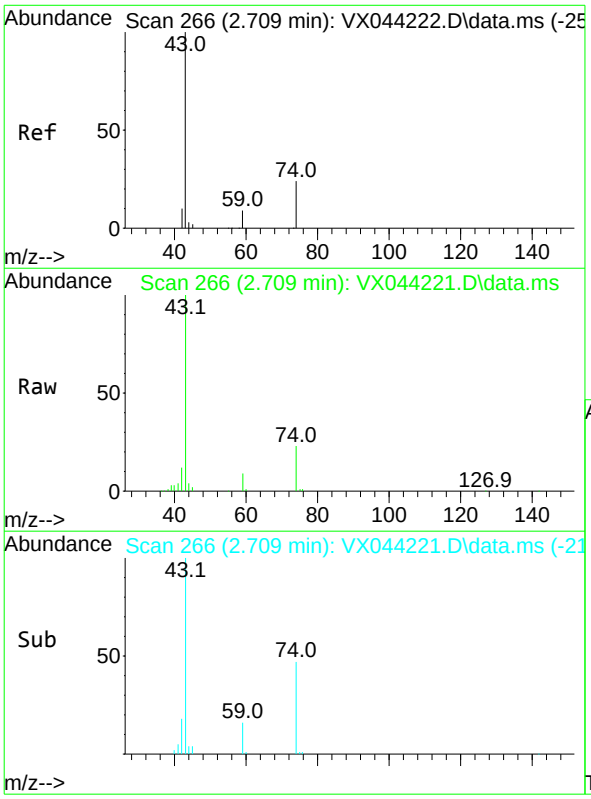
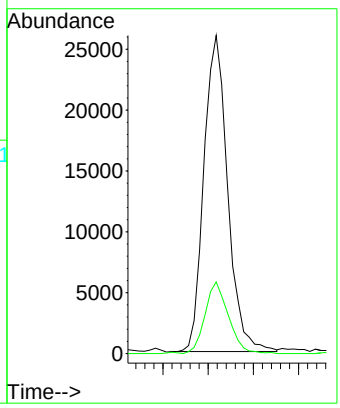
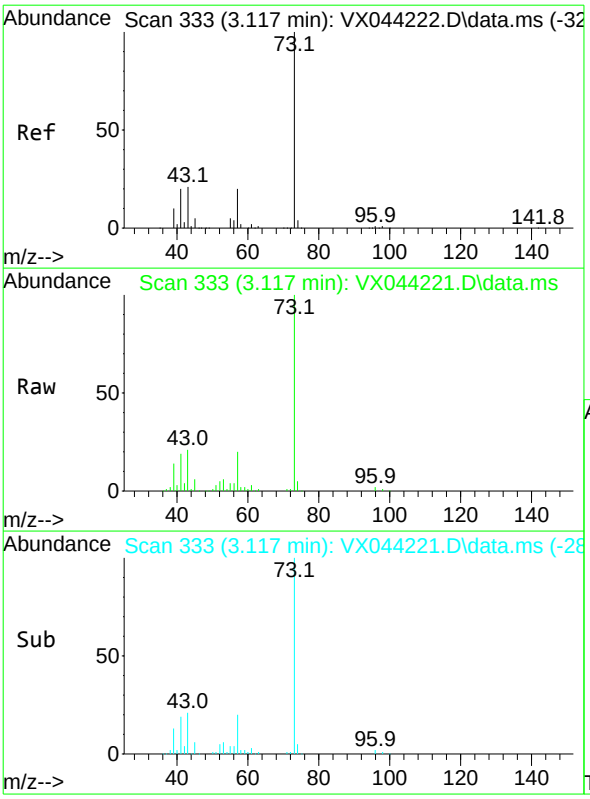


#18
Methyl Acetate
Concen: 19.175 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 47509

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.7	26.5

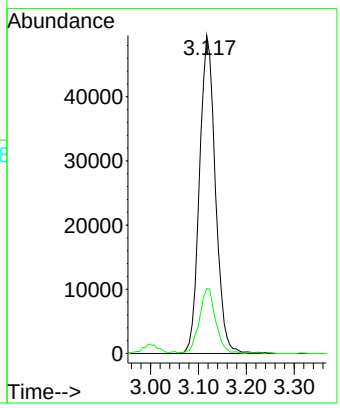




#19
Methyl tert-butyl Ether
Concen: 19.450 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 73 Resp: 114371

Ion	Ratio	Lower	Upper
73	100		
57	20.4	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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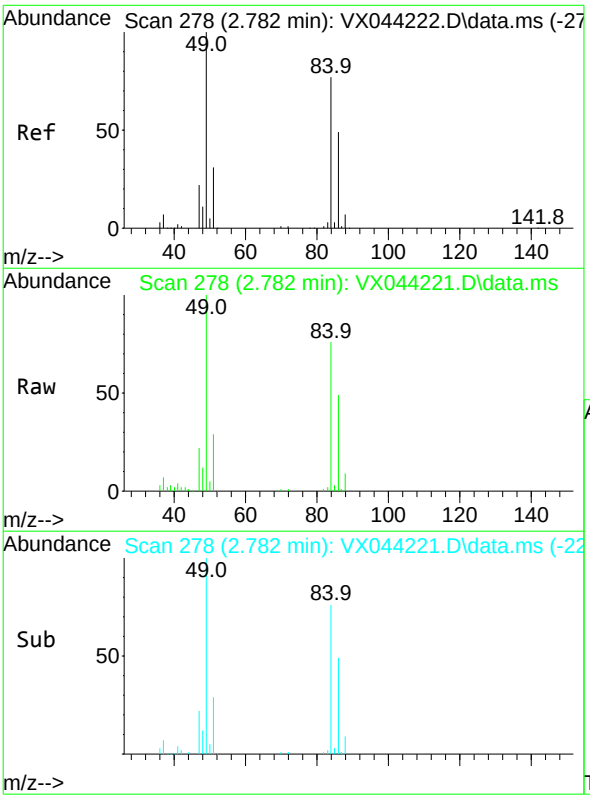
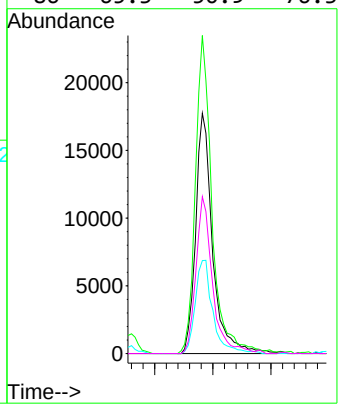
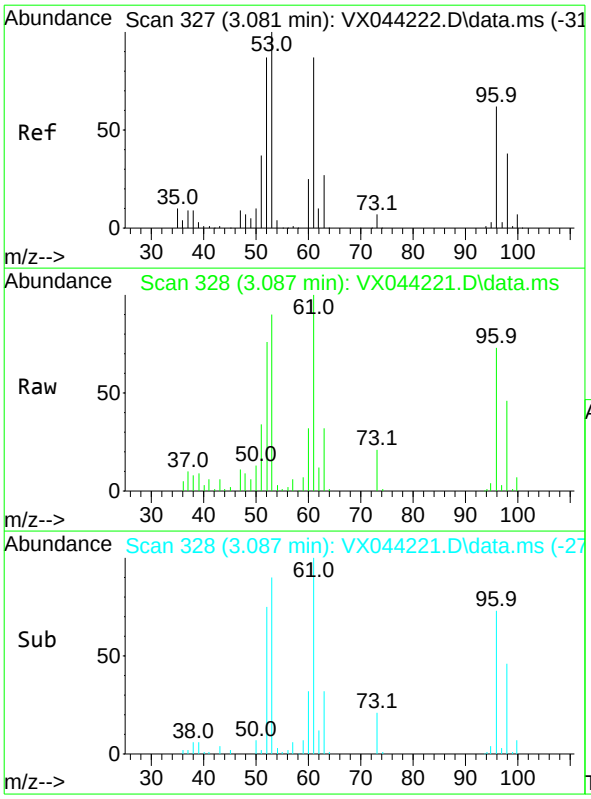


#20
Methylene Chloride
Concen: 19.846 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 84 Resp: 35820

Ion	Ratio	Lower	Upper
84	100		
49	132.3	104.2	156.4
51	38.7	32.2	48.4
86	65.3	50.9	76.3

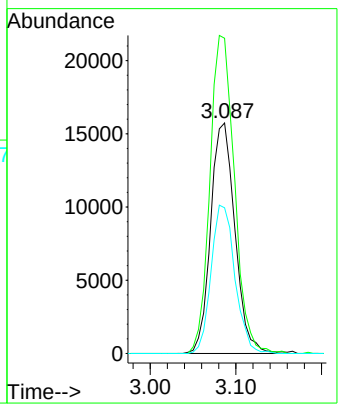




#21
trans-1,2-Dichloroethene
Concen: 19.380 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 96 Resp: 31036

Ion	Ratio	Lower	Upper
96	100		
61	136.8	112.0	168.0
98	63.2	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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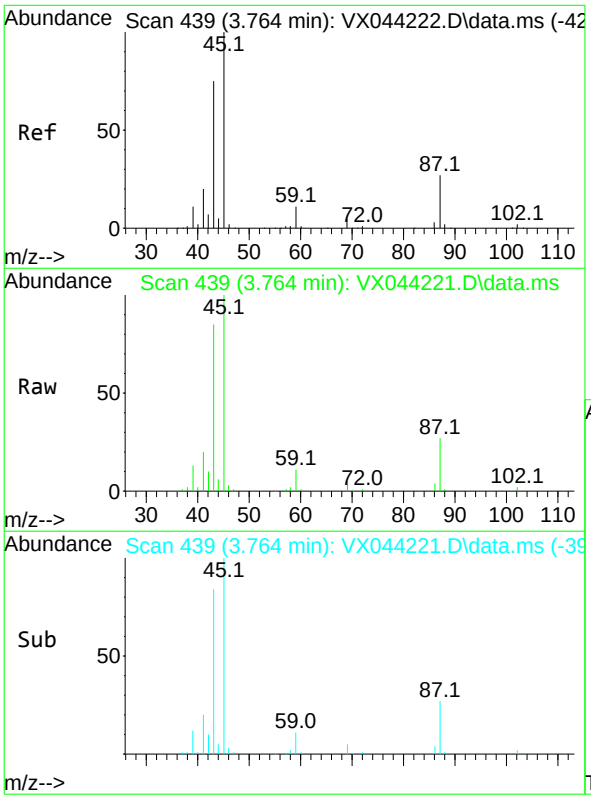
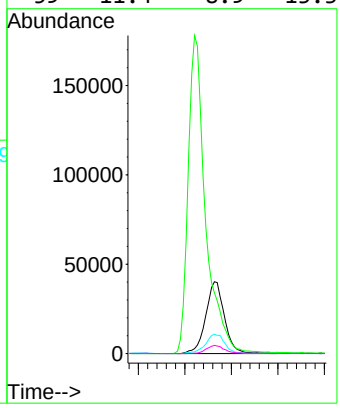
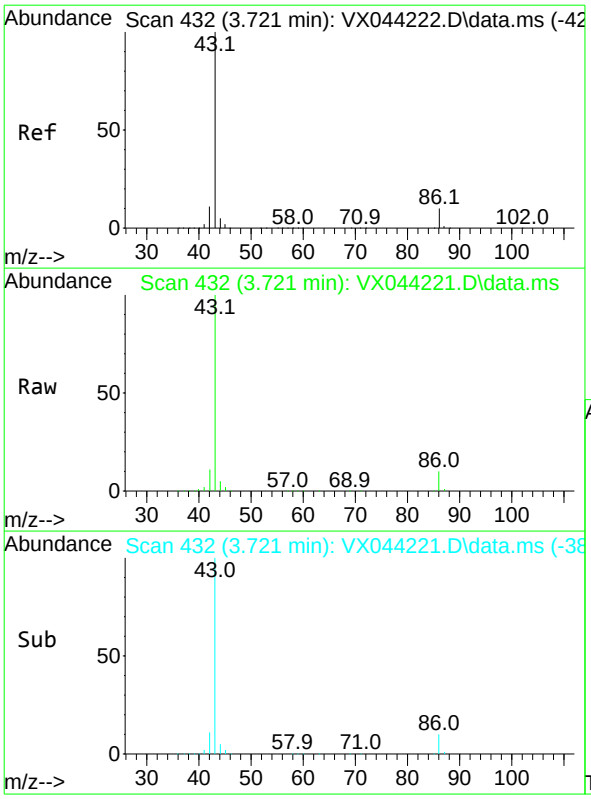


#22
Diisopropyl ether
Concen: 19.907 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 45 Resp: 112511

Ion	Ratio	Lower	Upper
45	100		
43	82.8	60.2	90.2
87	27.1	21.2	31.8
59	11.4	8.9	13.3

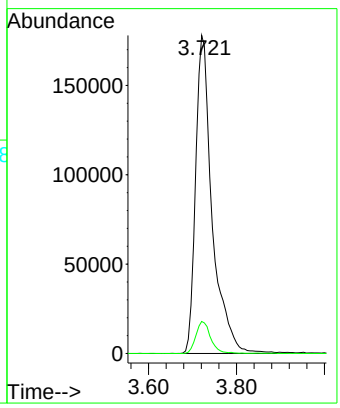




#23
Vinyl Acetate
Concen: 101.354 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 465716

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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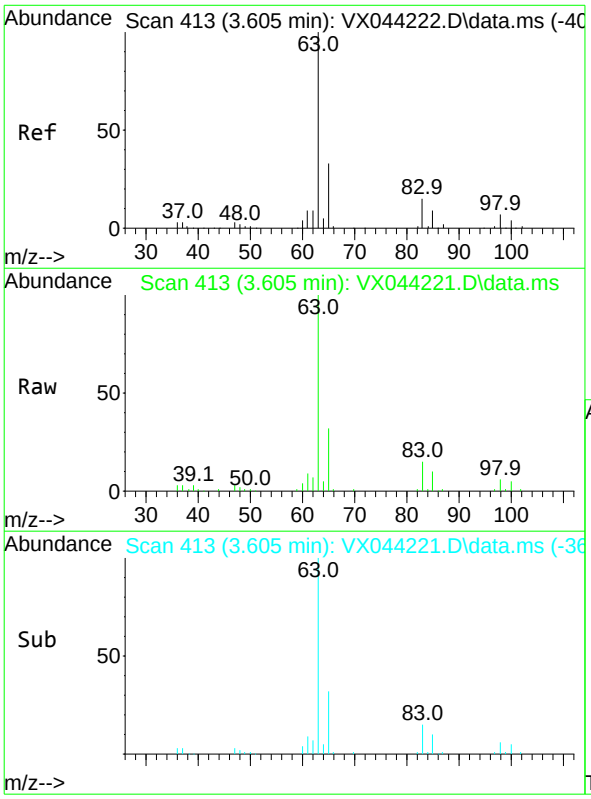
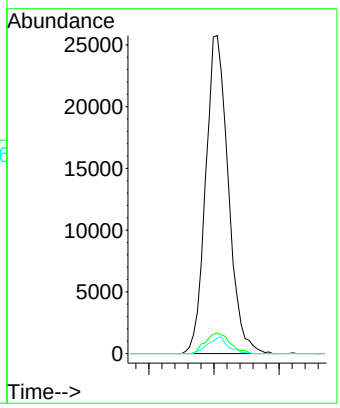
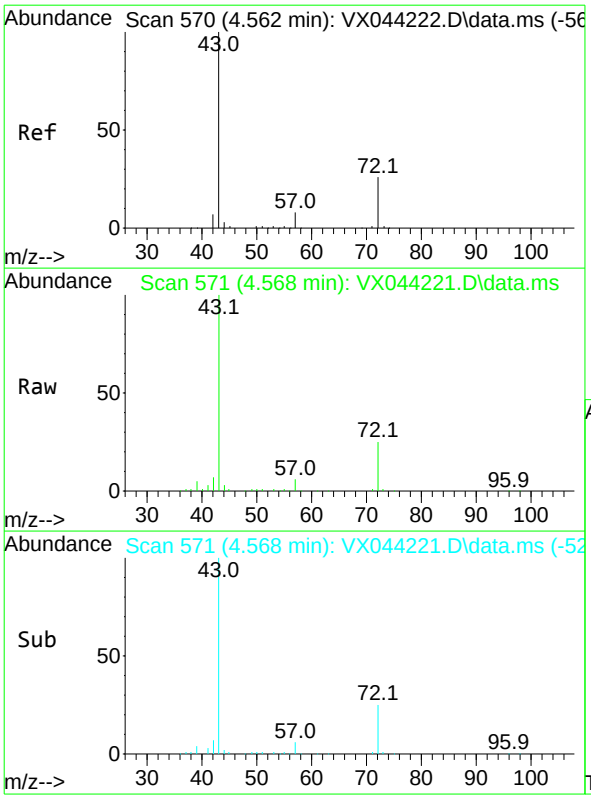


#24
1,1-Dichloroethane
Concen: 19.699 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 62059

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.6	10.8
100	4.9	2.1	6.3

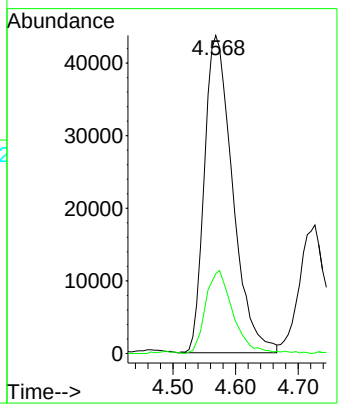




#25
2-Butanone
Concen: 100.277 ug/l
RT: 4.568 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 136992

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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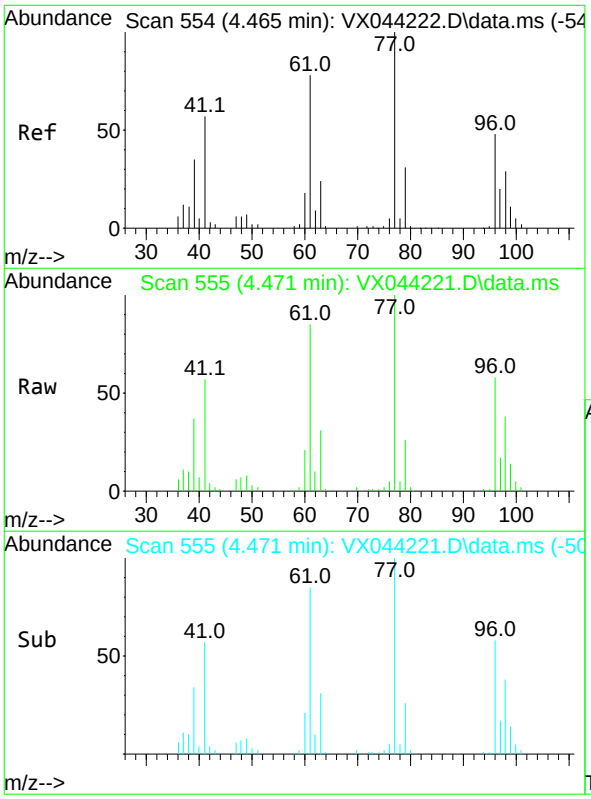
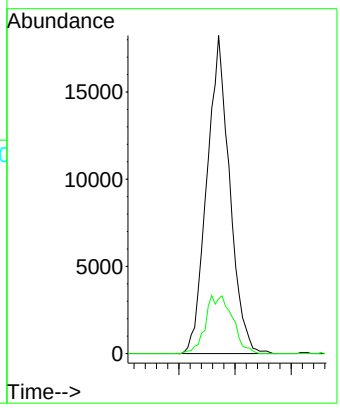
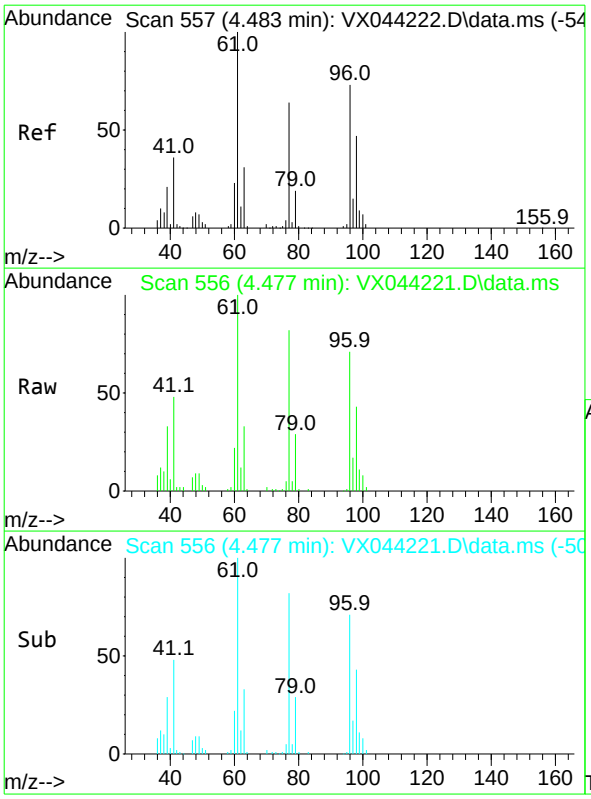


#26
2,2-Dichloropropane
Concen: 20.095 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 77 Resp: 51431

Ion	Ratio	Lower	Upper
77	100		
97	9.1	10.7	32.1#

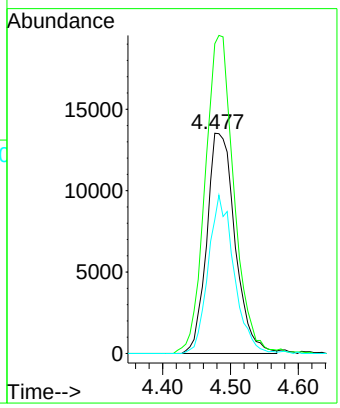




#27
cis-1,2-Dichloroethene
Concen: 19.254 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 96 Resp: 39161

Ion	Ratio	Lower	Upper
96	100		
61	147.6	0.0	299.0
98	65.5	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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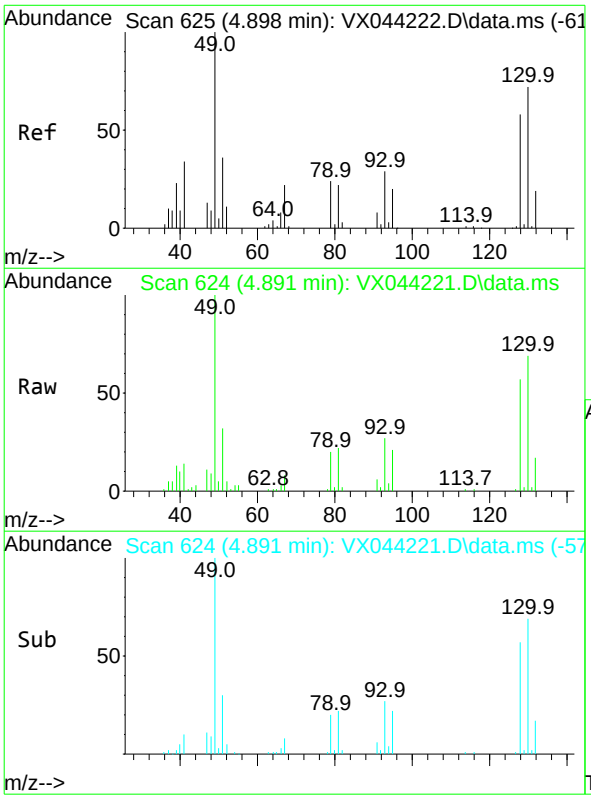
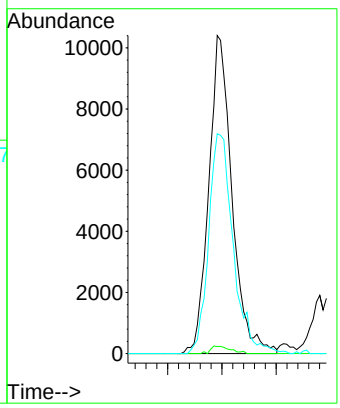
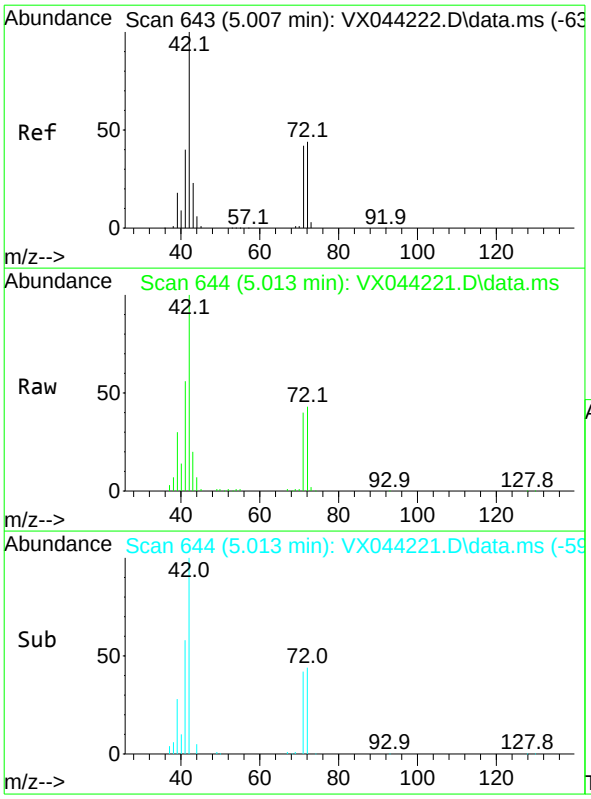


#28
Bromochloromethane
Concen: 20.052 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 49 Resp: 30977

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	73.1	62.1	93.1

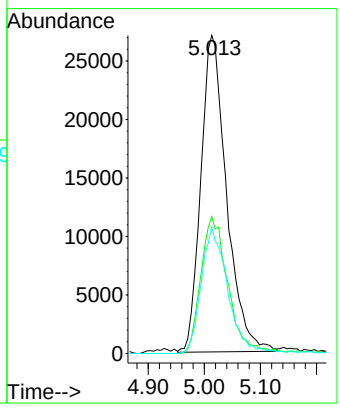




#29
Tetrahydrofuran
Concen: 98.343 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 42 Resp: 86235

Ion	Ratio	Lower	Upper
42	100		
72	45.2	37.0	55.6
71	41.1	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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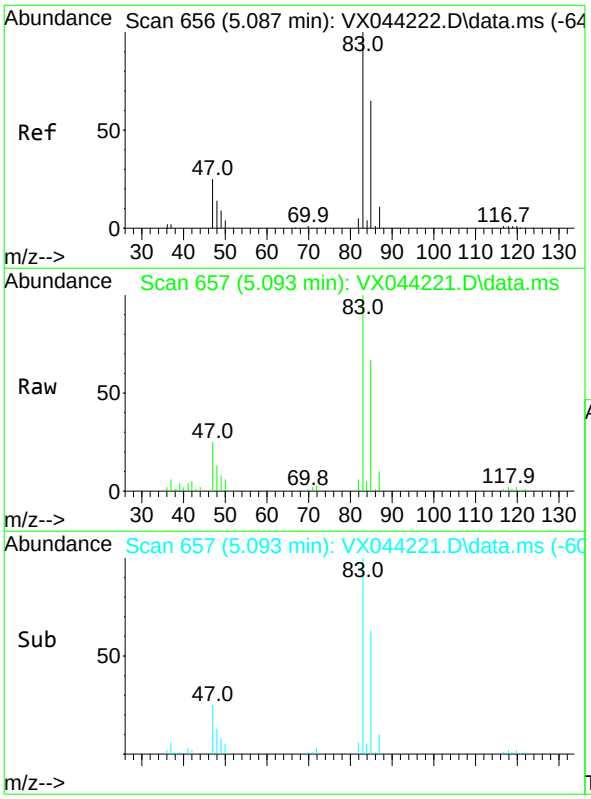
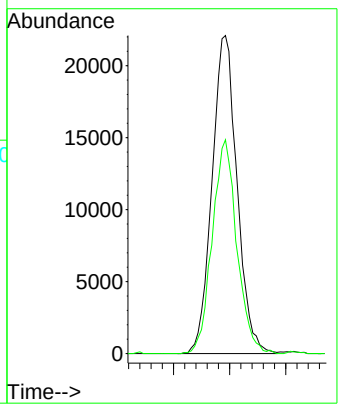
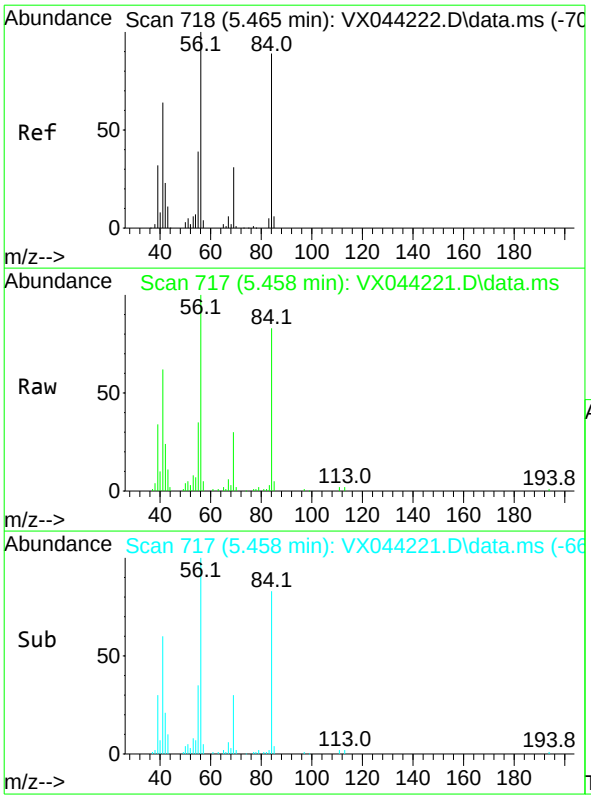


#30
Chloroform
Concen: 19.327 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 68410

Ion	Ratio	Lower	Upper
83	100		
85	67.2	51.6	77.4

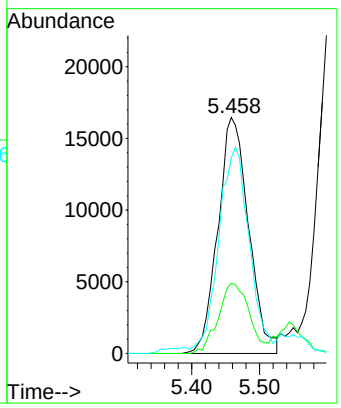




#31
Cyclohexane
Concen: 20.351 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 56 Resp: 51773

Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	80.7	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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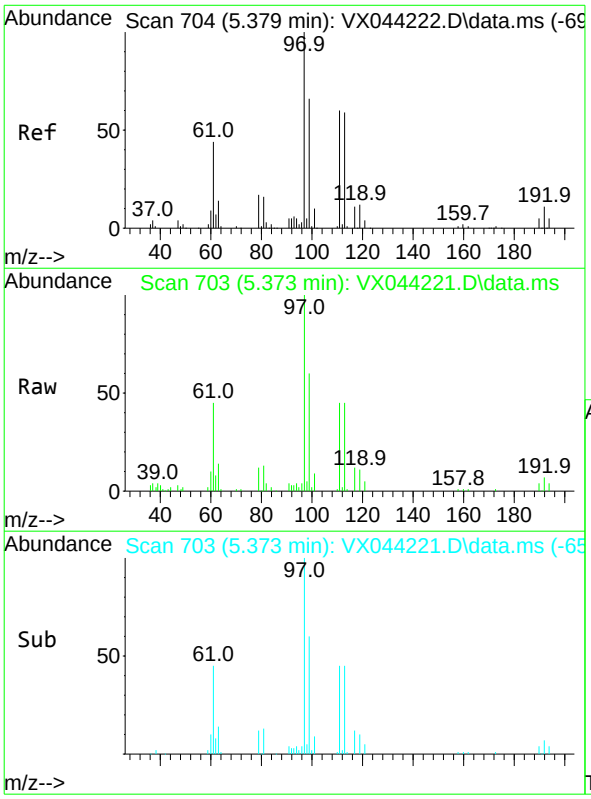
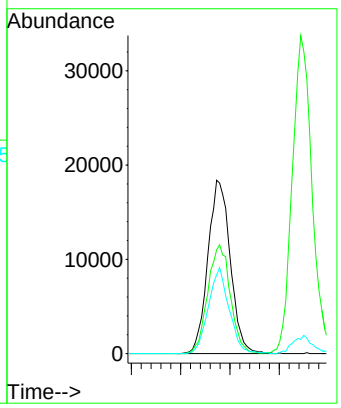
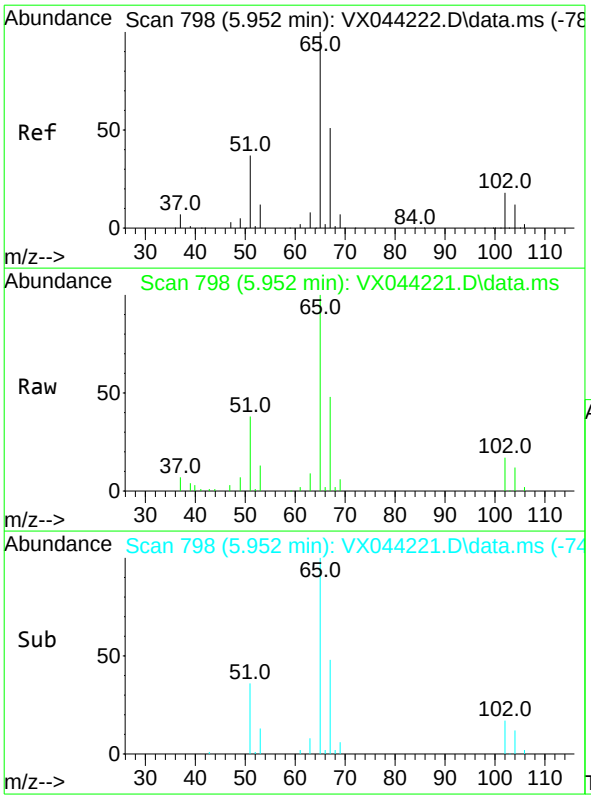


#32
1,1,1-Trichloroethane
Concen: 19.706 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 97 Resp: 57900

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.8	76.2
61	45.7	35.2	52.8

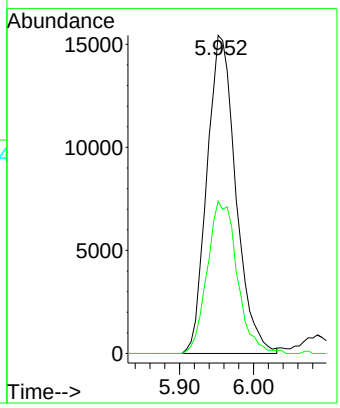




#33
1,2-Dichloroethane-d4
Concen: 17.743 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 65 Resp: 41821

Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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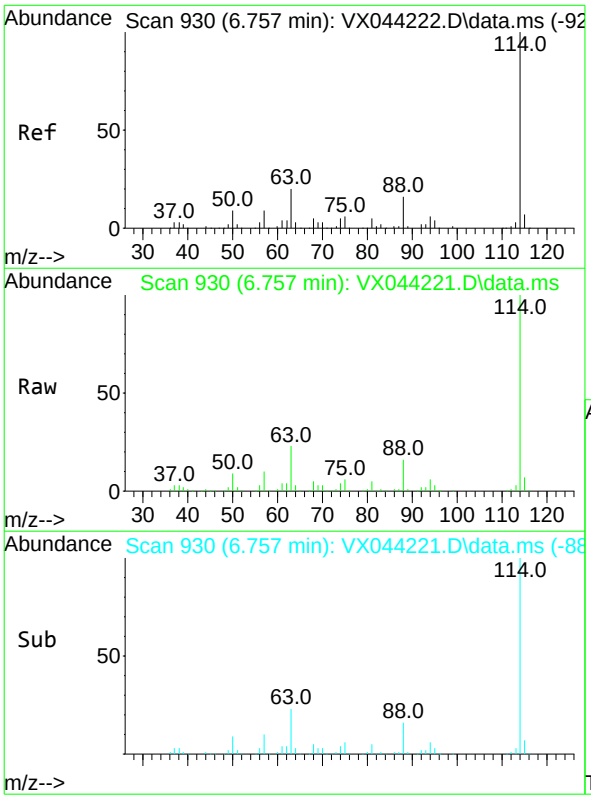
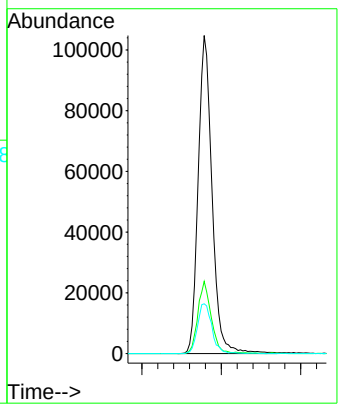
Supervised By :Mahesh Dadoda 12/12/2024

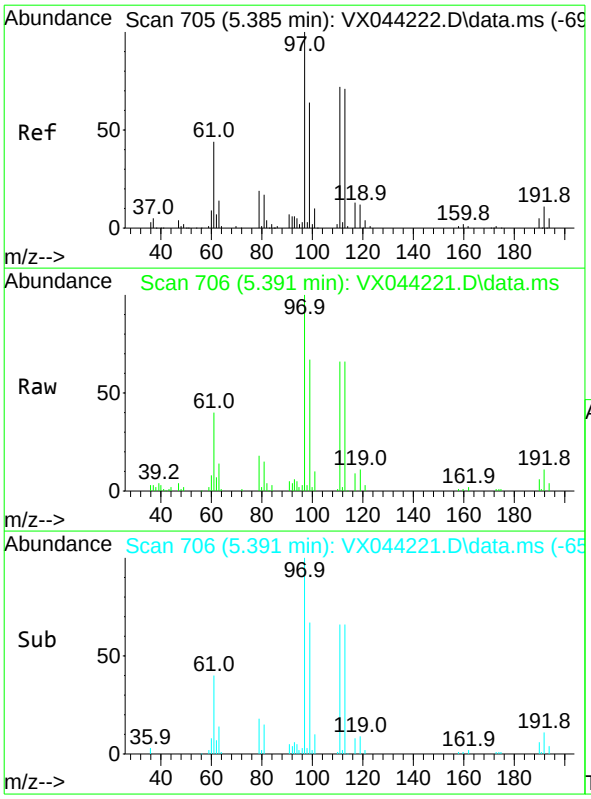


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:114 Resp: 254199

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	40.6
88	15.7	0.0	31.8

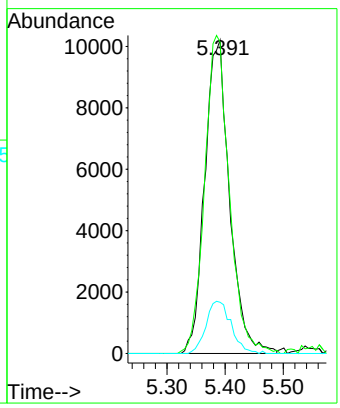




#35
Dibromofluoromethane
Concen: 17.213 ug/l
RT: 5.391 min Scan# 70
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:113 Resp: 30304

Ion	Ratio	Lower	Upper
113	100		
111	100.9	80.4	120.6
192	16.7	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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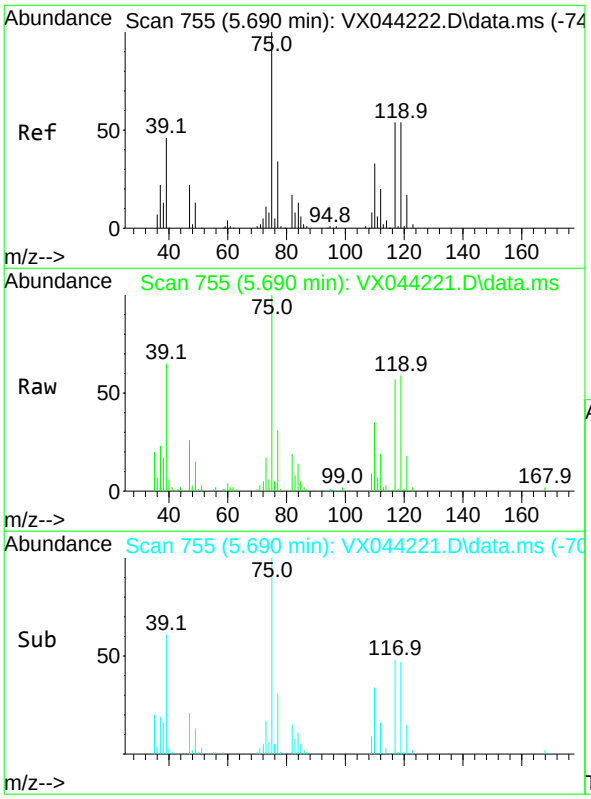
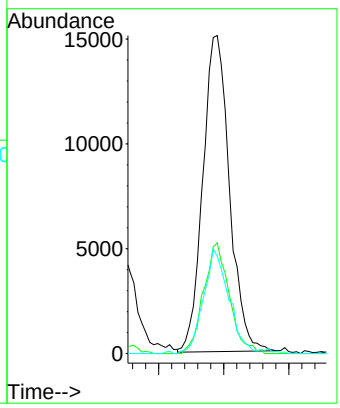
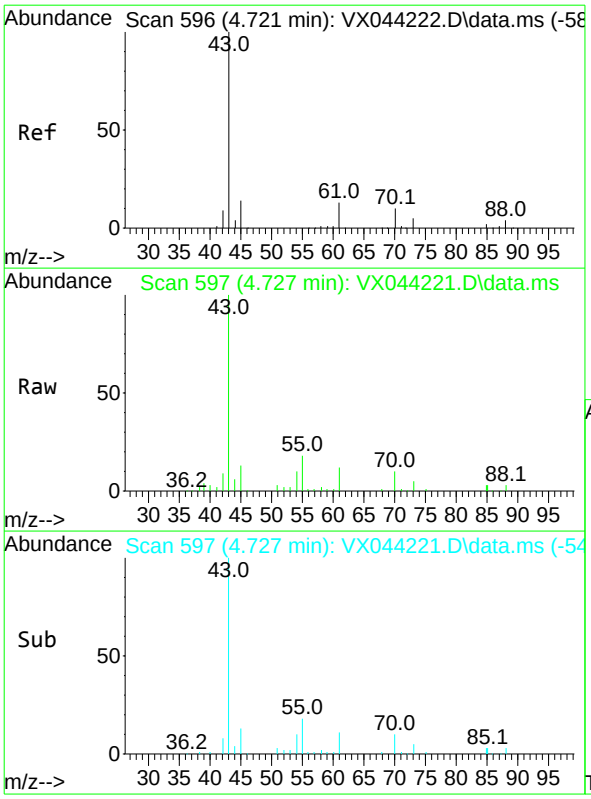


#36
1,1-Dichloropropene
Concen: 18.841 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 42878

Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.3	51.7
77	31.3	25.4	38.0

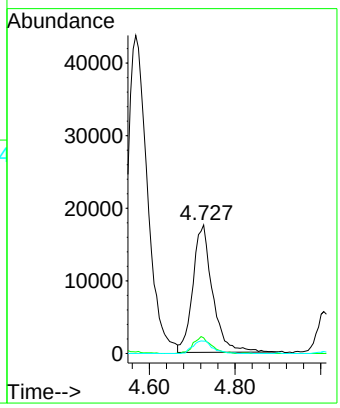




#37
Ethyl Acetate
Concen: 19.913 ug/l
RT: 4.727 min Scan# 59
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 56019

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.9	7.7	11.5



Instrument :
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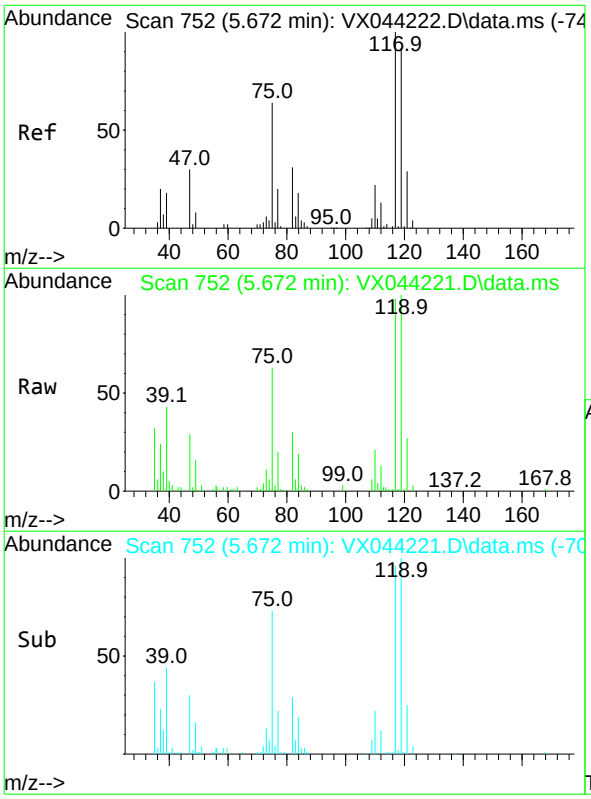
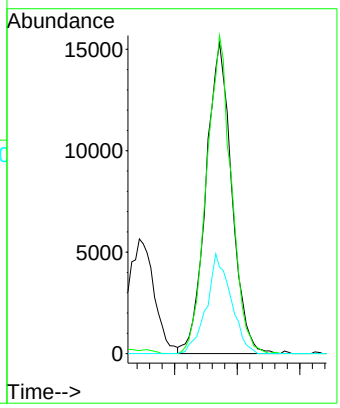
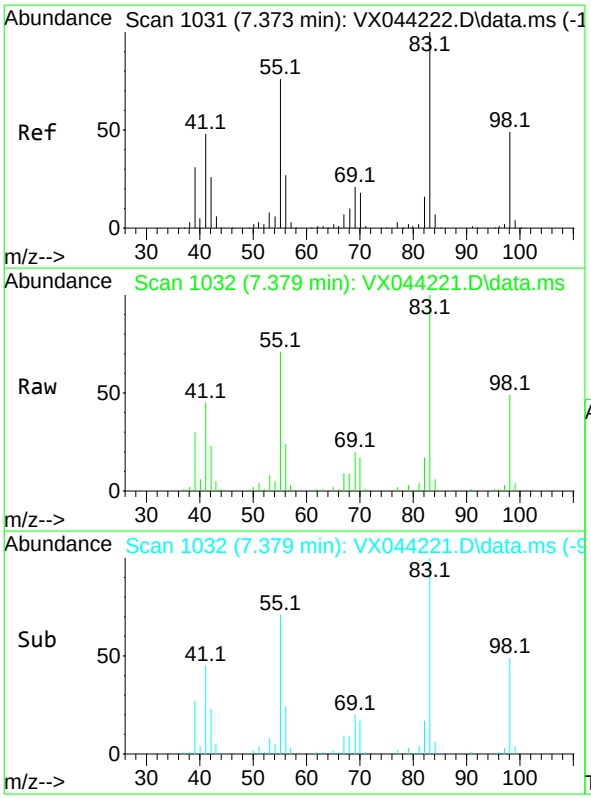


#38
Carbon Tetrachloride
Concen: 17.918 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 43901

Ion	Ratio	Lower	Upper
117	100		
119	102.3	74.2	111.4
121	27.8	23.0	34.6

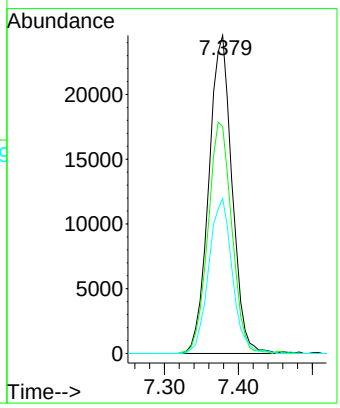




#39
Methylcyclohexane
Concen: 19.678 ug/l
RT: 7.379 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 53536

Ion	Ratio	Lower	Upper
83	100		
55	71.4	60.7	91.1
98	48.7	38.9	58.3



Instrument :
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ClientSampleId :
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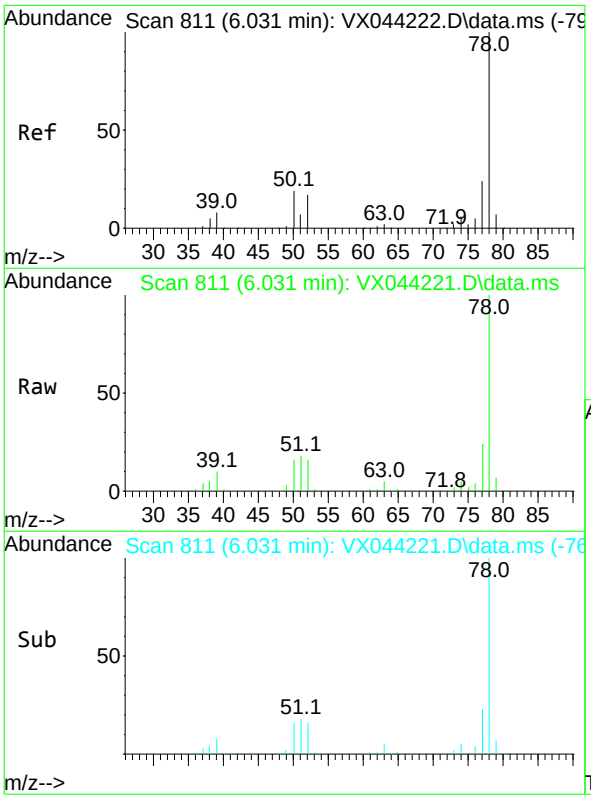
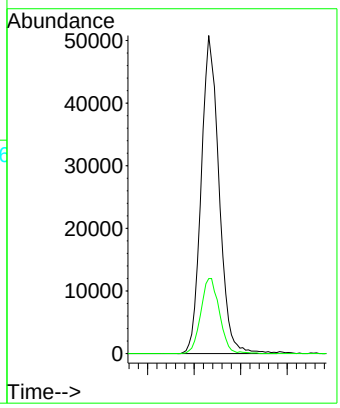
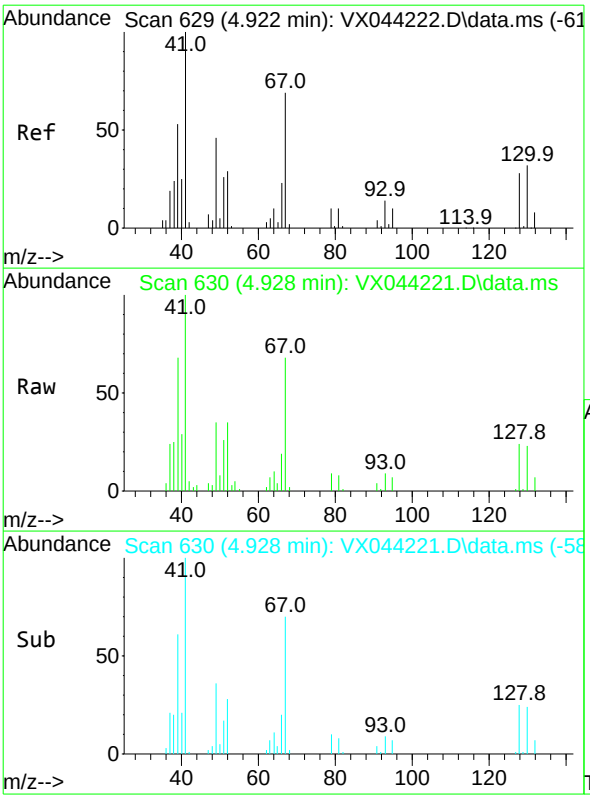


#40
Benzene
Concen: 19.606 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 78 Resp: 135467

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9

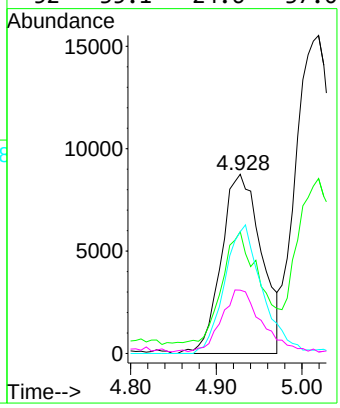




#41
Methacrylonitrile
Concen: 19.095 ug/l
RT: 4.928 min Scan# 63
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 28523

Ion	Ratio	Lower	Upper
41	100		
39	59.0	44.2	66.4
67	67.6	57.2	85.8
52	35.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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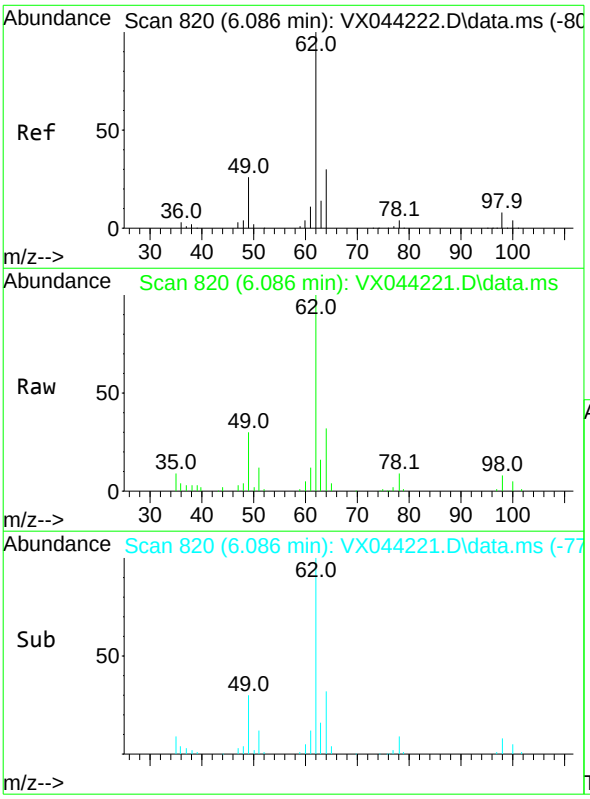
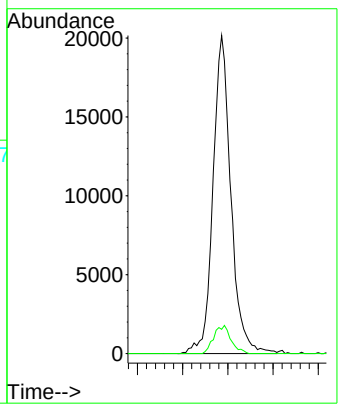
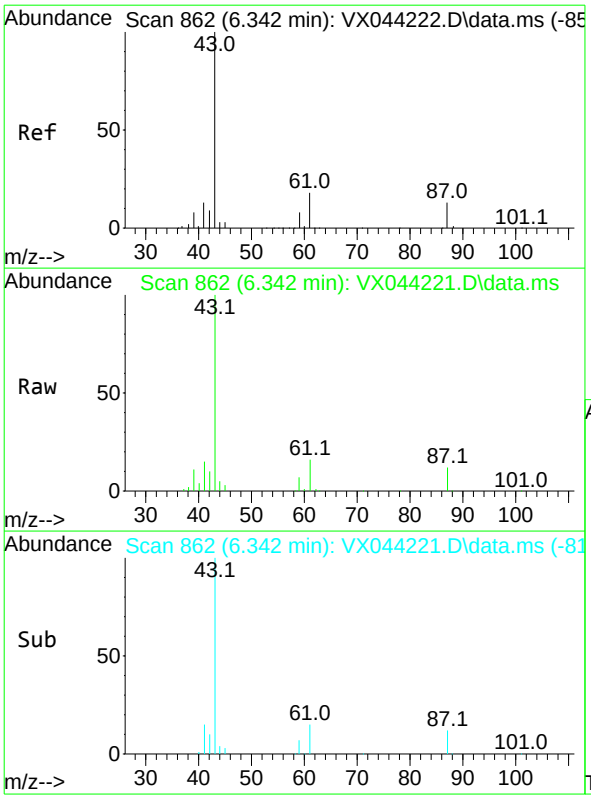


#42
1,2-Dichloroethane
Concen: 19.456 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 55377

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	15.8

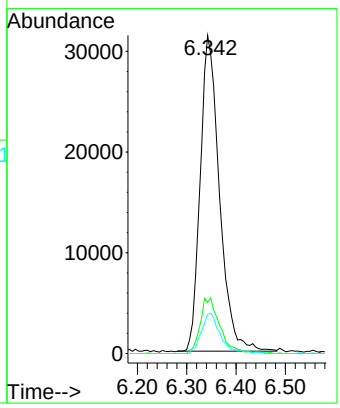




#43
Isopropyl Acetate
Concen: 19.301 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 84866

Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.5	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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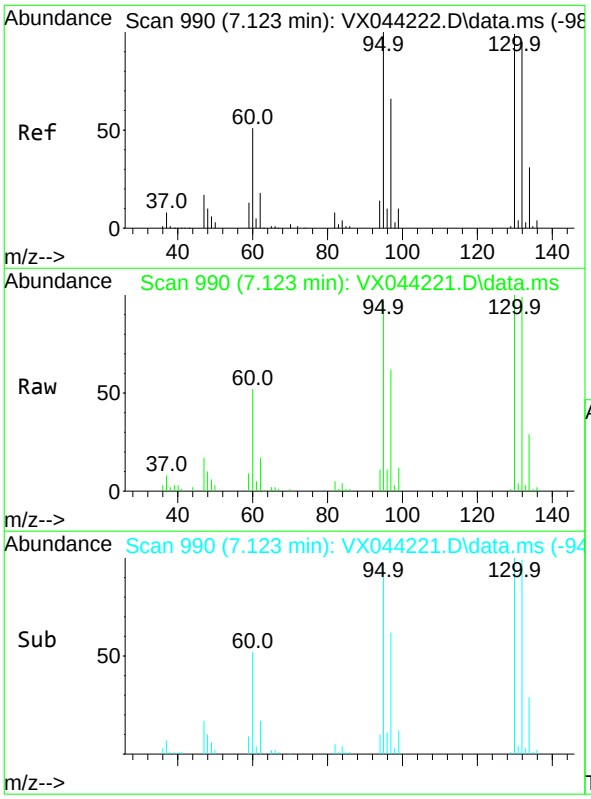
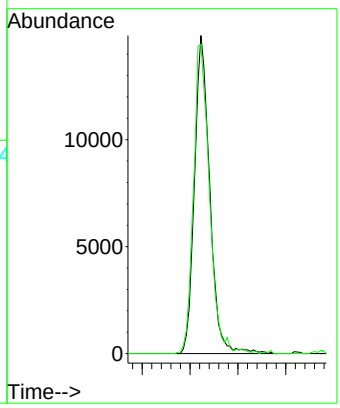
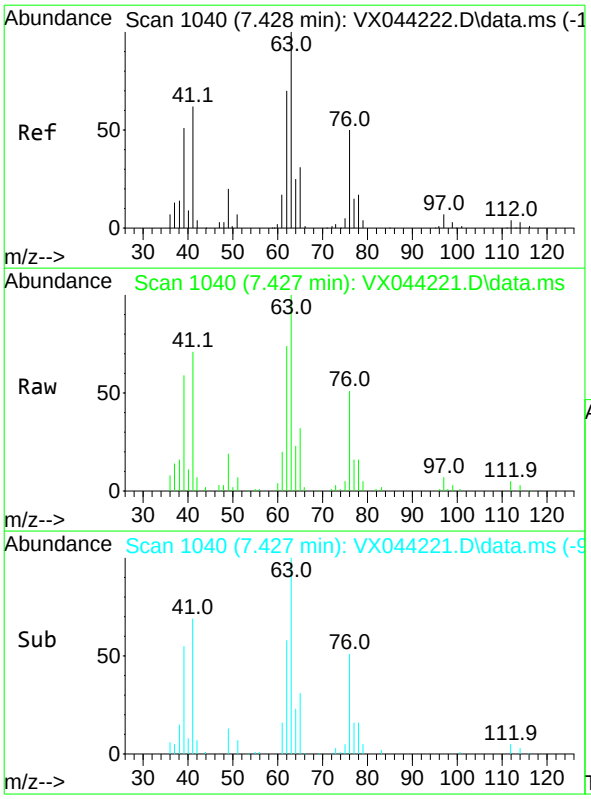


#44
Trichloroethene
Concen: 19.149 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:130 Resp: 32995

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	201.4

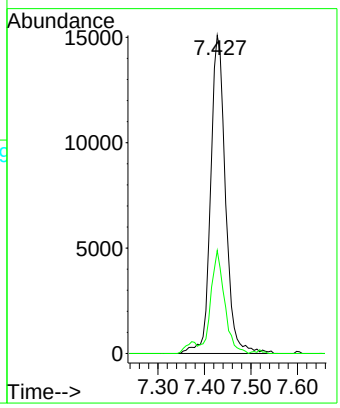




#45
1,2-Dichloropropane
Concen: 19.025 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 33585

Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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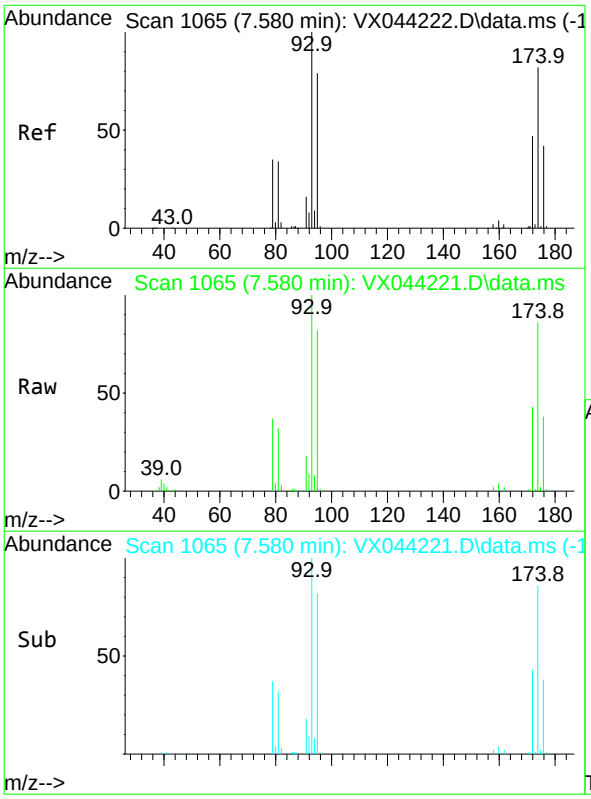
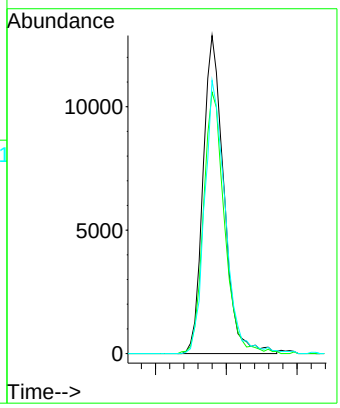
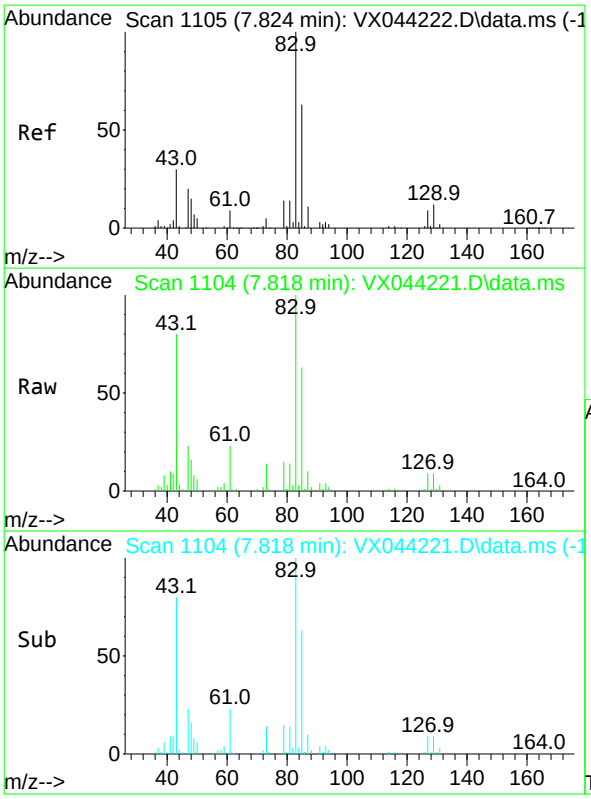


#46
Dibromomethane
Concen: 19.199 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 93 Resp: 26293

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.4	98.2
174	86.1	67.9	101.9

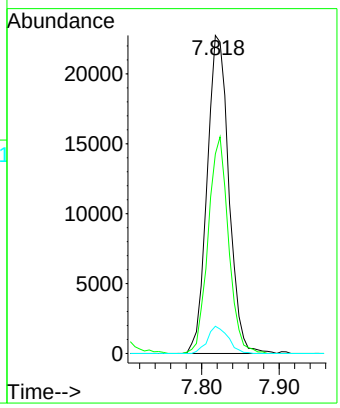




#47
Bromodichloromethane
Concen: 18.735 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 44312

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.6	75.8
127	8.6	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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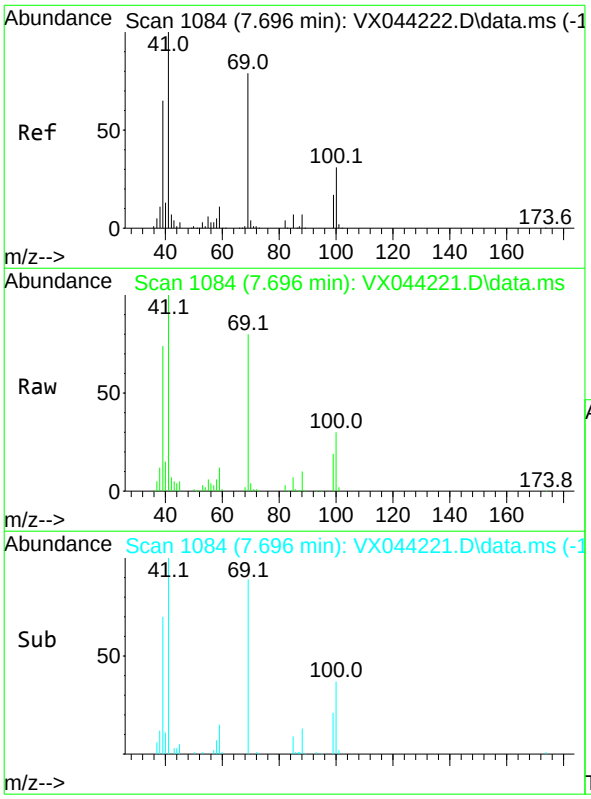
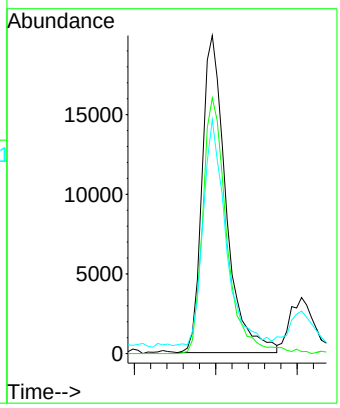
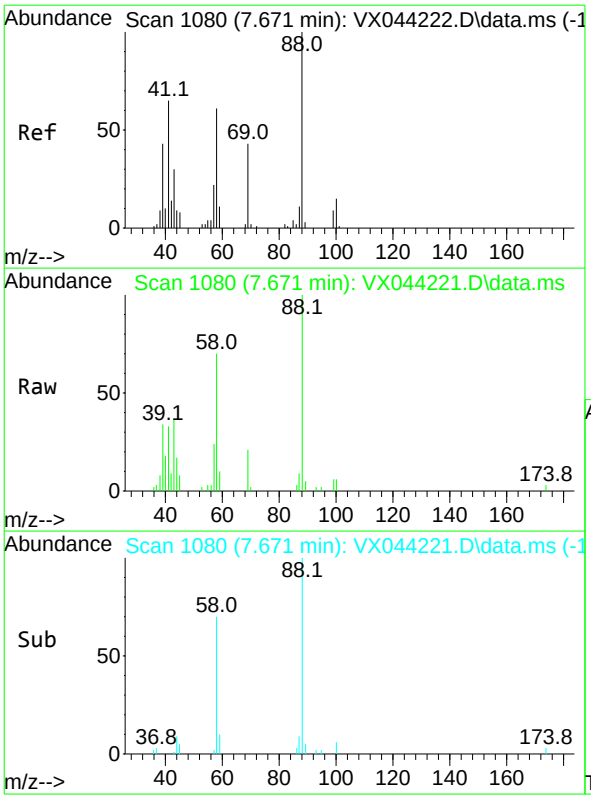


#48
Methyl methacrylate
Concen: 19.032 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 40620

Ion	Ratio	Lower	Upper
41	100		
69	80.5	62.4	93.6
39	67.5	53.3	79.9

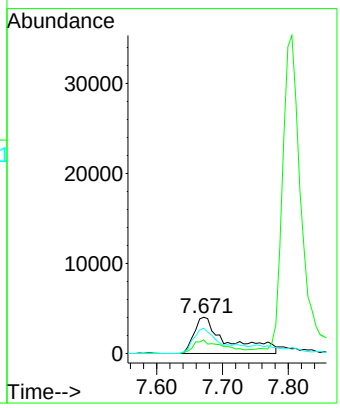




#49
1,4-Dioxane
Concen: 391.518 ug/l m
RT: 7.671 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 88 Resp: 14281

Ion	Ratio	Lower	Upper
88	100		
43	34.0	27.1	40.7
58	49.5	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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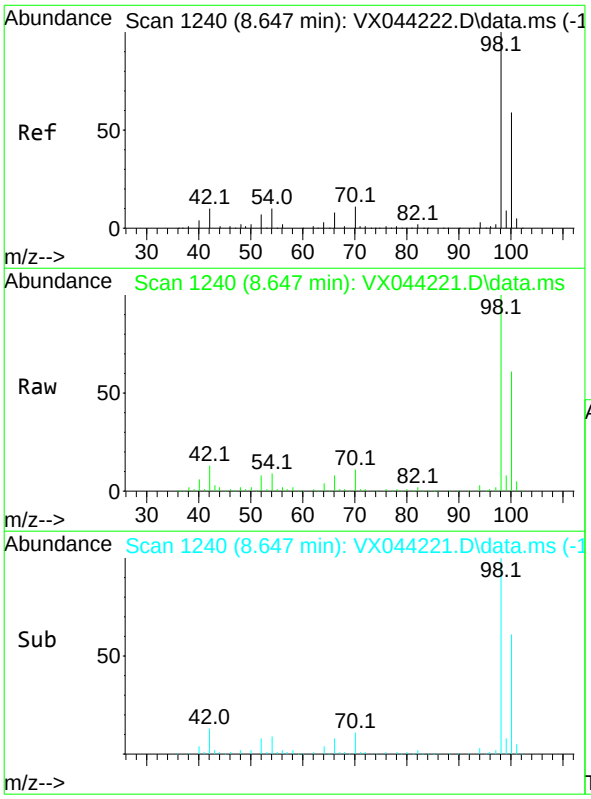
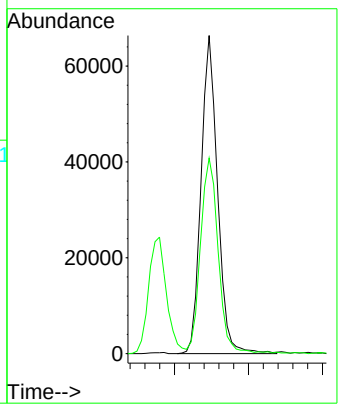
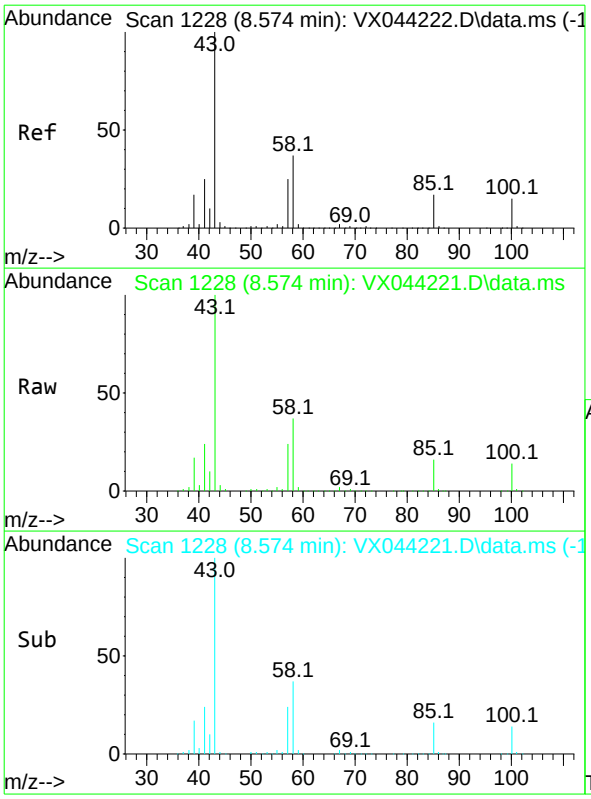


#50
Toluene-d8
Concen: 17.284 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 98 Resp: 102660

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3

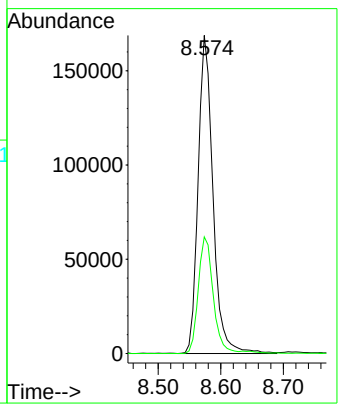




#51
4-Methyl-2-Pentanone
Concen: 98.429 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 278267

Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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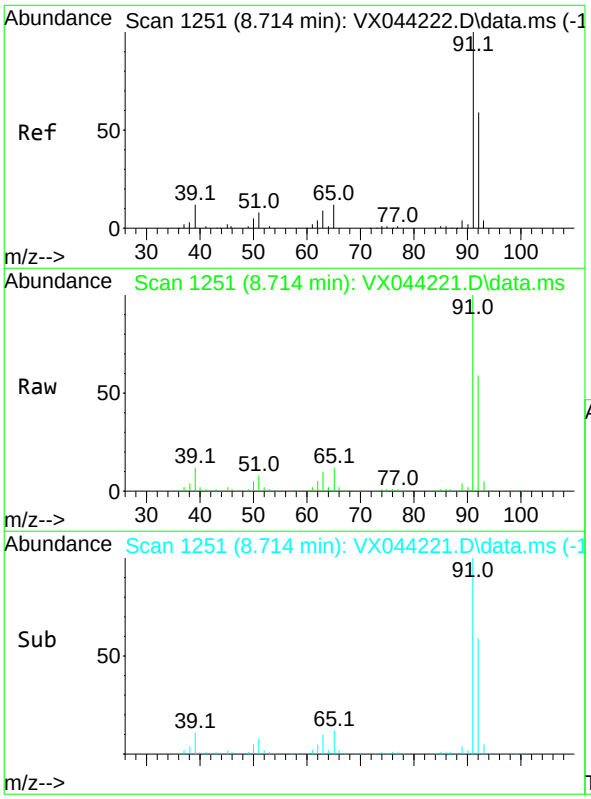
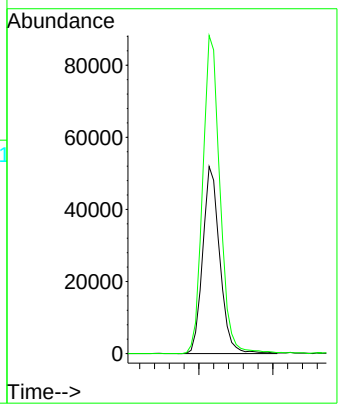
Supervised By :Mahesh Dadoda 12/12/2024

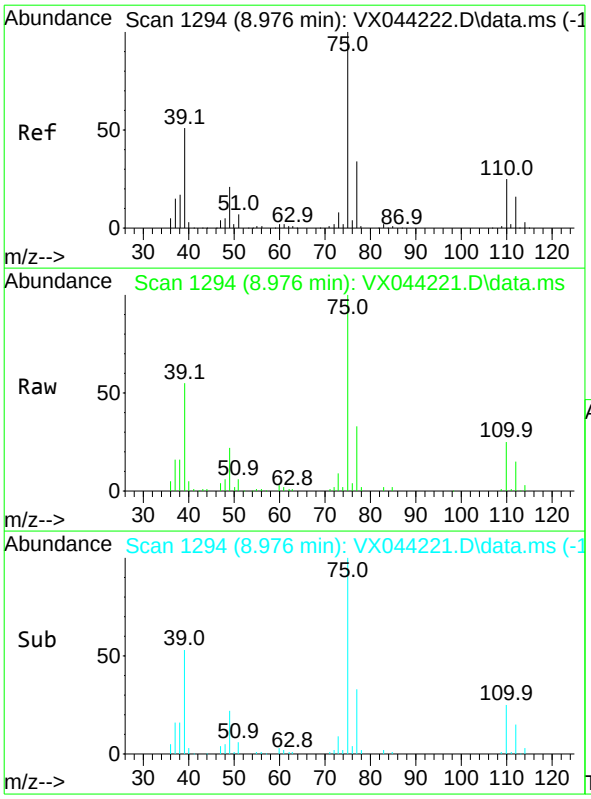


#52
Toluene
Concen: 19.113 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 92 Resp: 82934

Ion	Ratio	Lower	Upper
92	100		
91	172.9	137.0	205.6

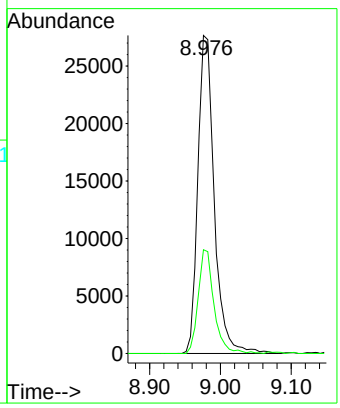




#53
t-1,3-Dichloropropene
Concen: 18.785 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 44614

Ion	Ratio	Lower	Upper
75	100		
77	32.6	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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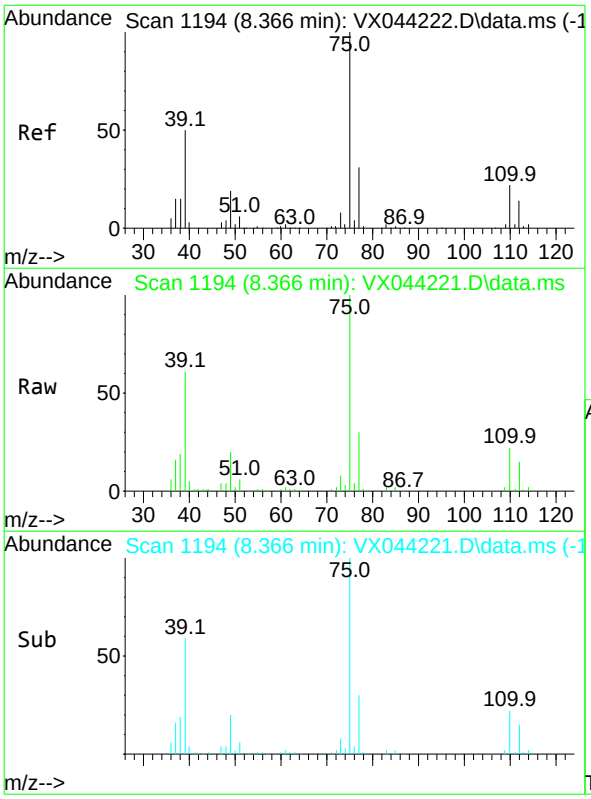
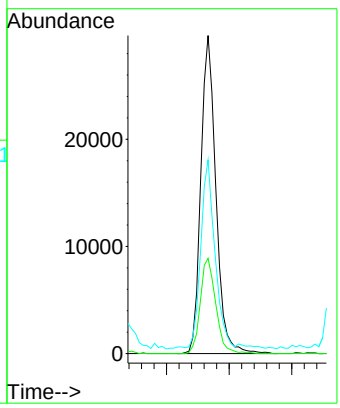
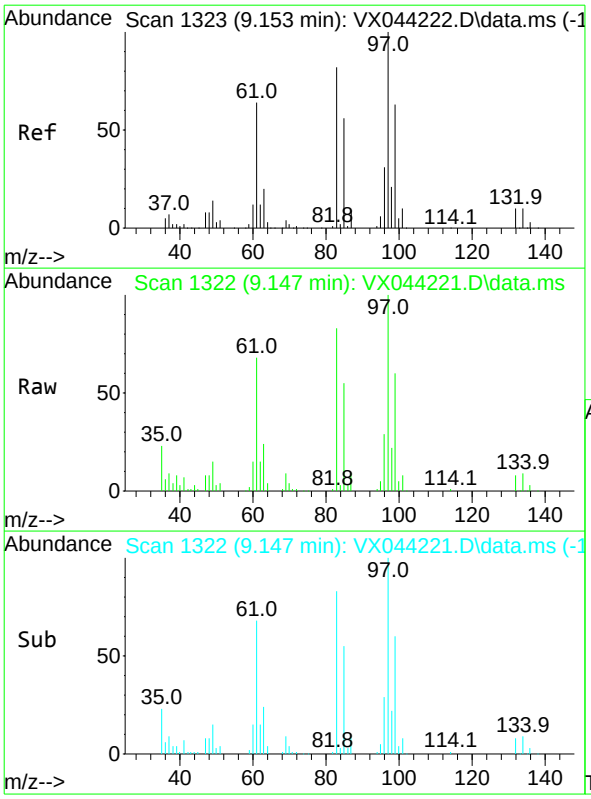


#54
cis-1,3-Dichloropropene
Concen: 19.258 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 49596

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.7	37.1
39	59.4	40.3	60.5

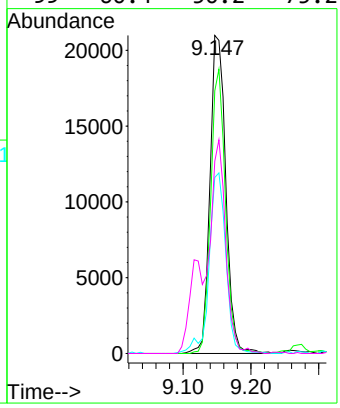




#55
1,1,2-Trichloroethane
Concen: 19.732 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 97 Resp: 34013

Ion	Ratio	Lower	Upper
97	100		
83	82.6	65.3	97.9
85	55.3	44.6	67.0
99	60.4	50.2	75.2



Instrument :
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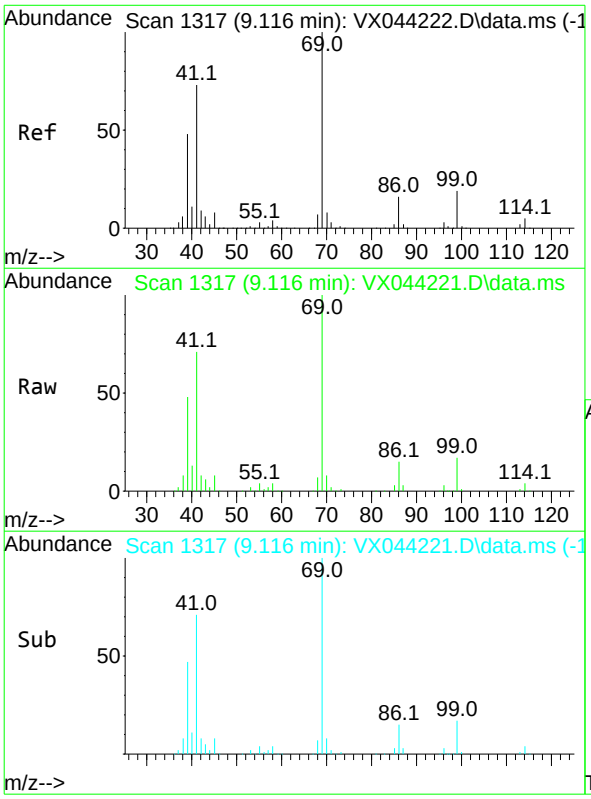
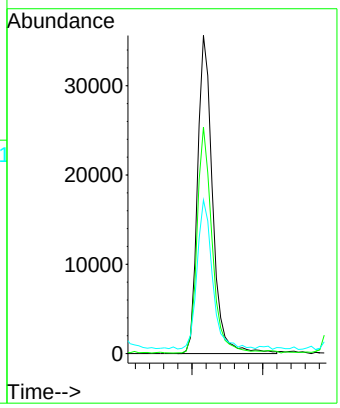
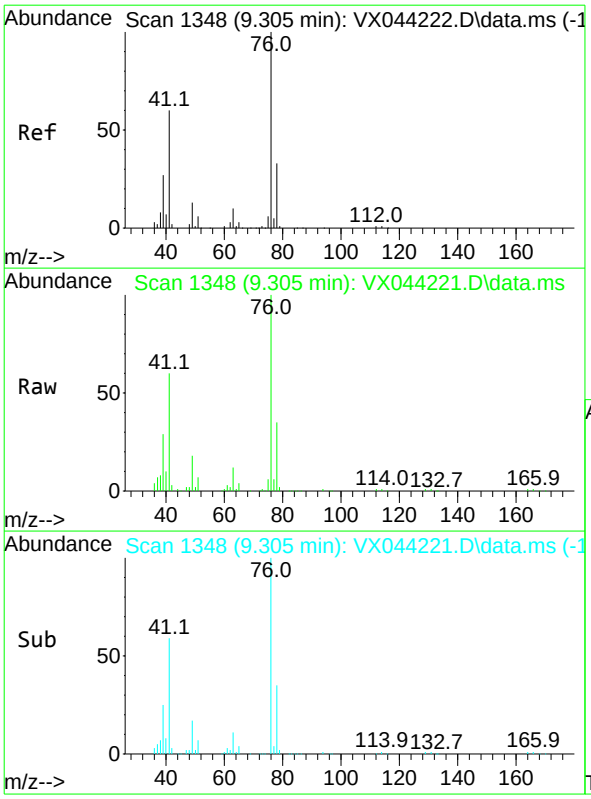


#56
Ethyl methacrylate
Concen: 19.318 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 69 Resp: 52571

Ion	Ratio	Lower	Upper
69	100		
41	70.3	56.6	85.0
39	47.8	37.4	56.0

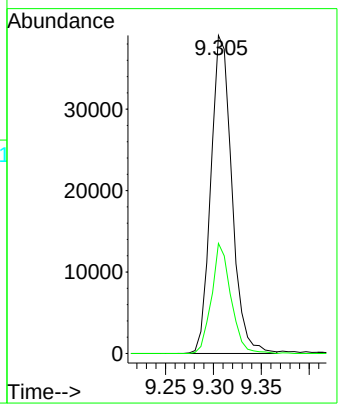




#57
1,3-Dichloropropane
Concen: 19.827 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 76 Resp: 59489

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
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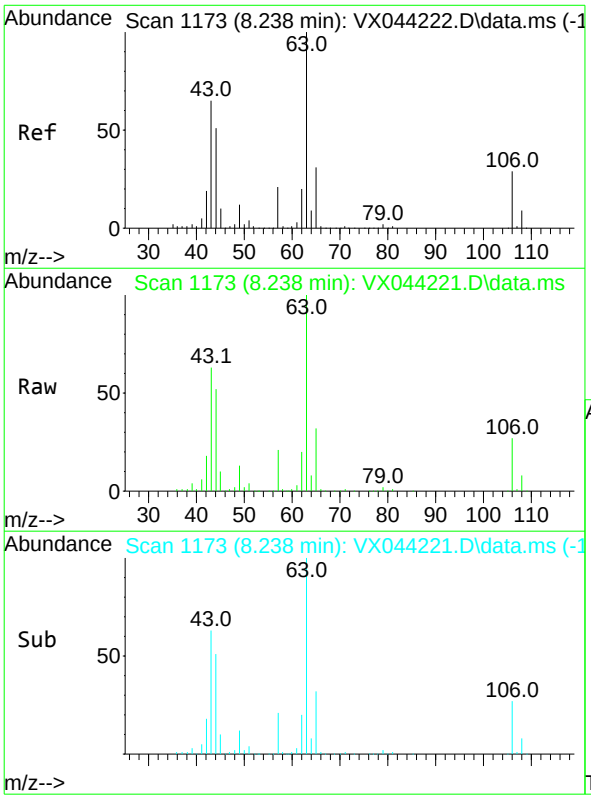
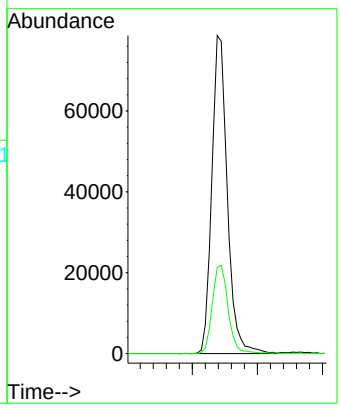
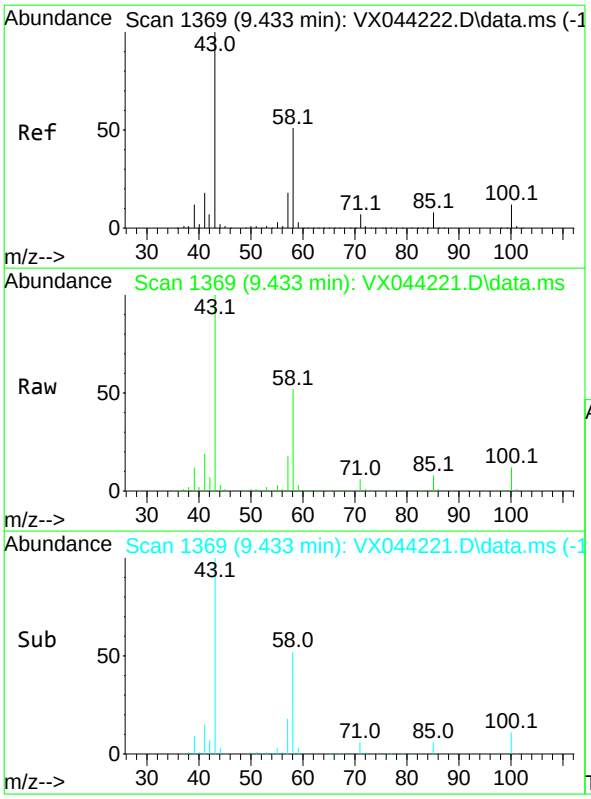


#58
2-Chloroethyl Vinyl ether
Concen: 94.642 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 129900

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2

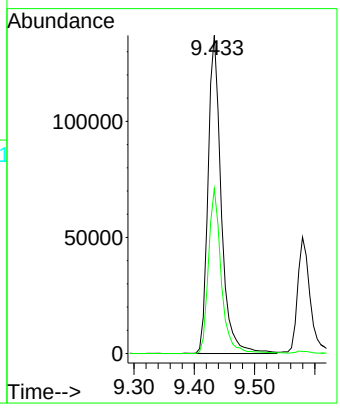




#59
2-Hexanone
Concen: 101.440 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 207578

Ion	Ratio	Lower	Upper
43	100		
58	50.4	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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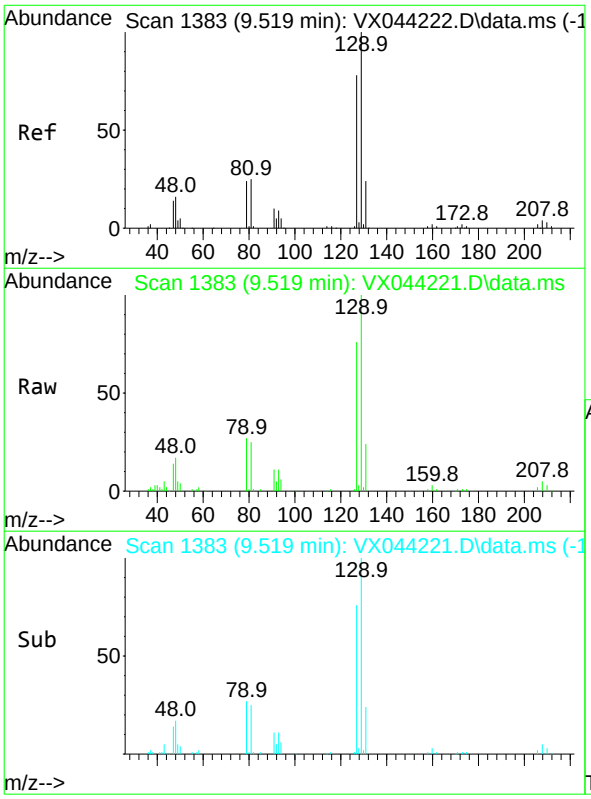
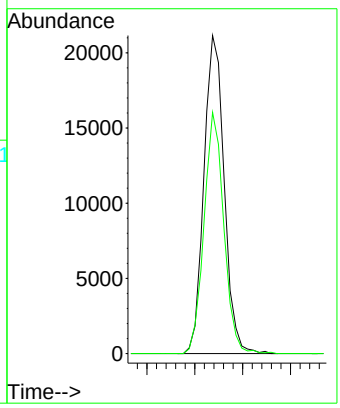
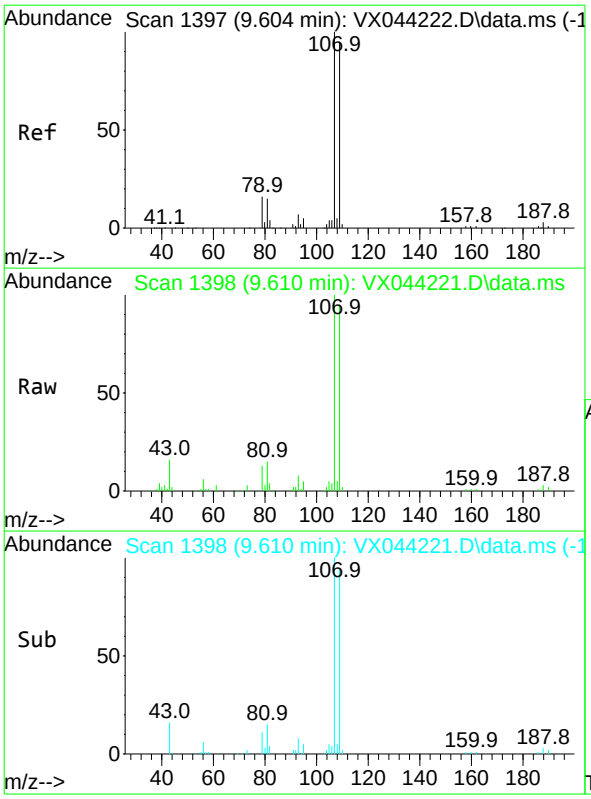


#60
Dibromochloromethane
Concen: 18.318 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:129 Resp: 31066

Ion	Ratio	Lower	Upper
129	100		
127	74.1	38.5	115.3

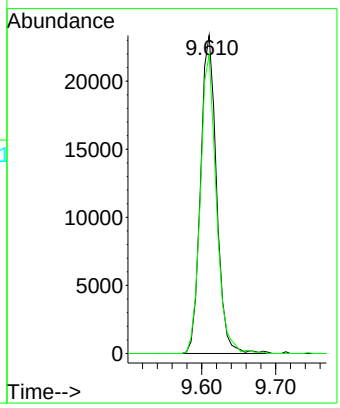




#61
1,2-Dibromoethane
Concen: 19.935 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:107 Resp: 34978

Ion	Ratio	Lower	Upper
107	100		
109	94.4	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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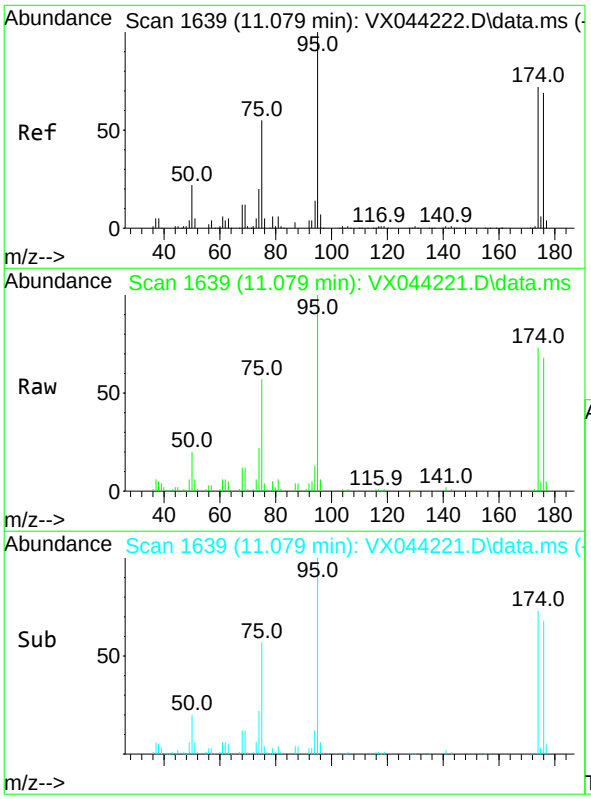
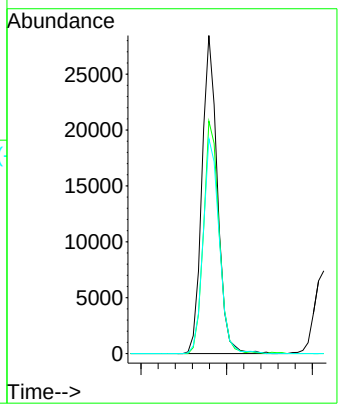
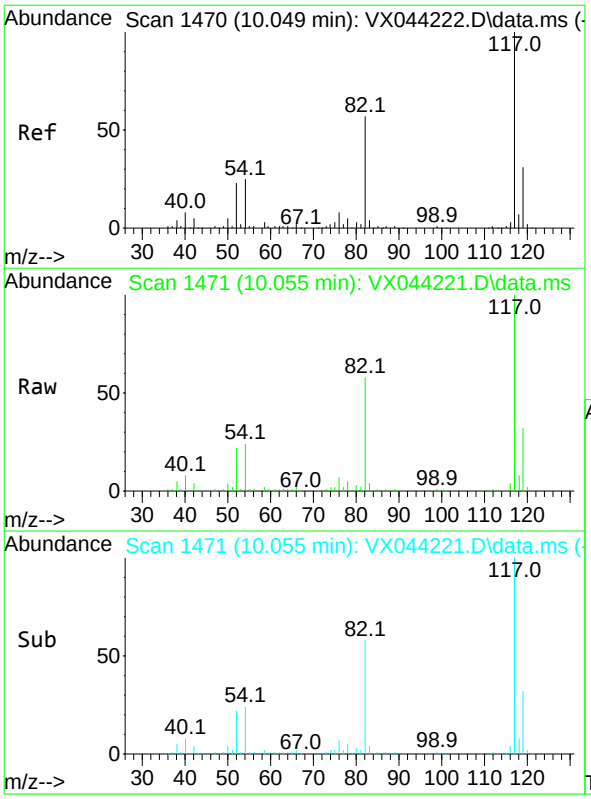


#62
4-Bromofluorobenzene
Concen: 17.175 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 95 Resp: 35645

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	145.8
176	70.5	0.0	137.8

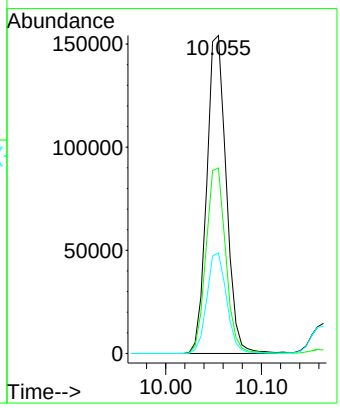




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 218148

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.8	68.8
119	31.6	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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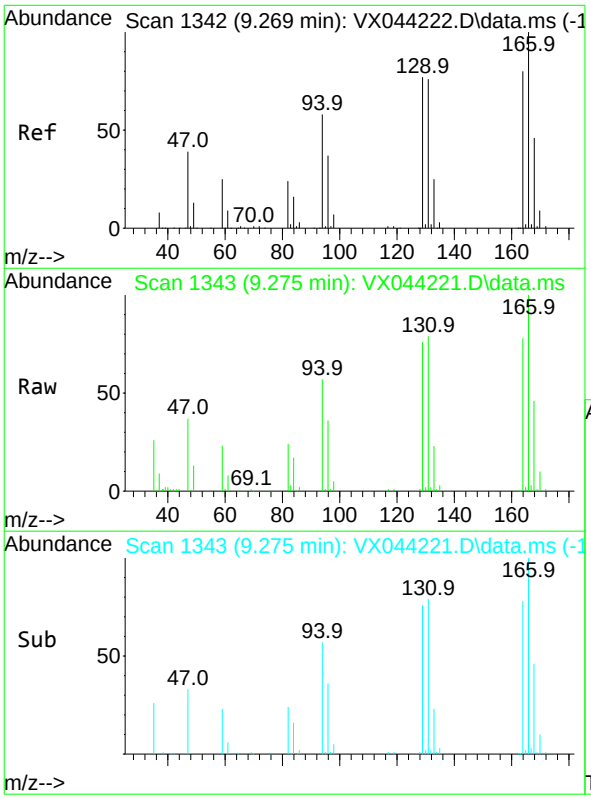
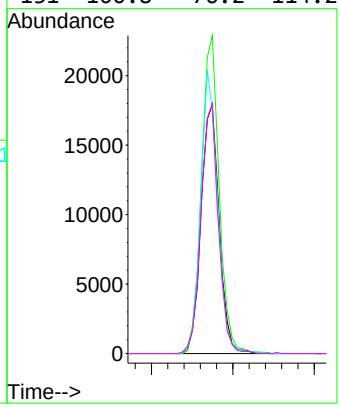
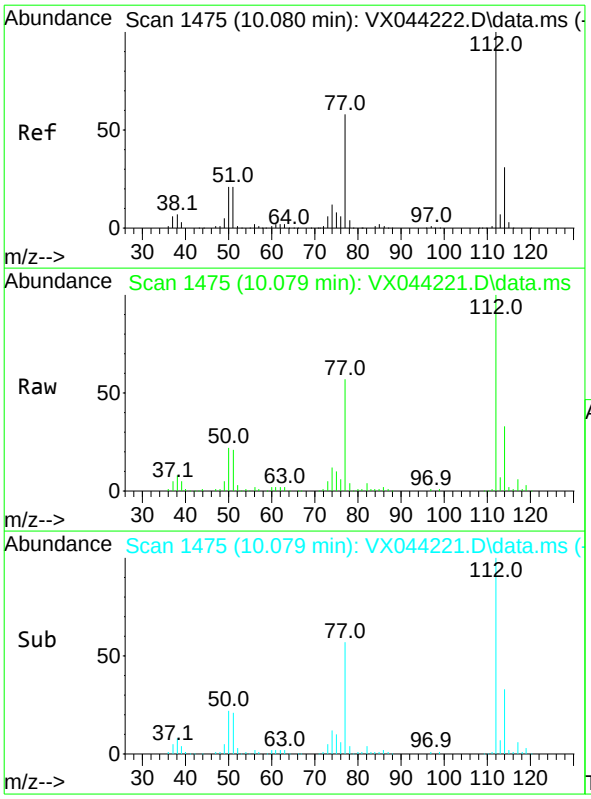


#64
Tetrachloroethene
Concen: 19.133 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:164 Resp: 27702

Ion	Ratio	Lower	Upper
164	100		
166	128.0	100.4	150.6
129	97.5	77.2	115.8
131	100.8	76.2	114.2

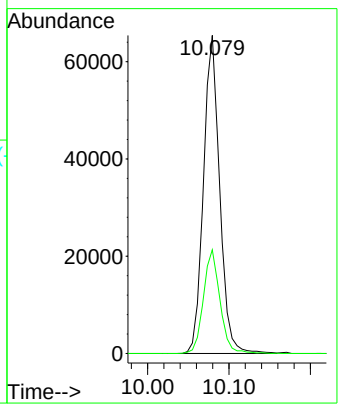




#65
Chlorobenzene
Concen: 19.389 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:112 Resp: 90631

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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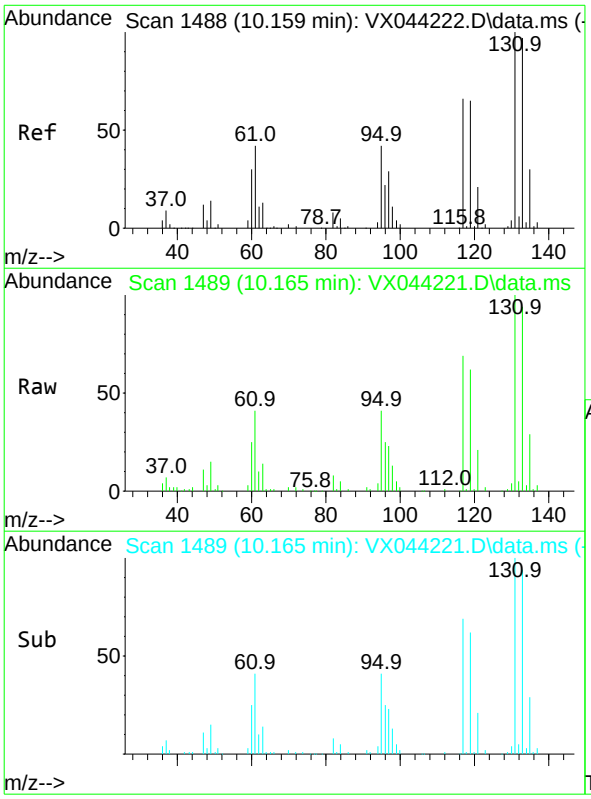
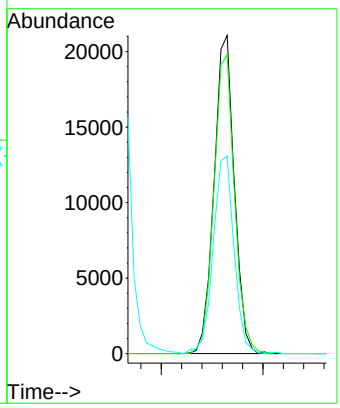
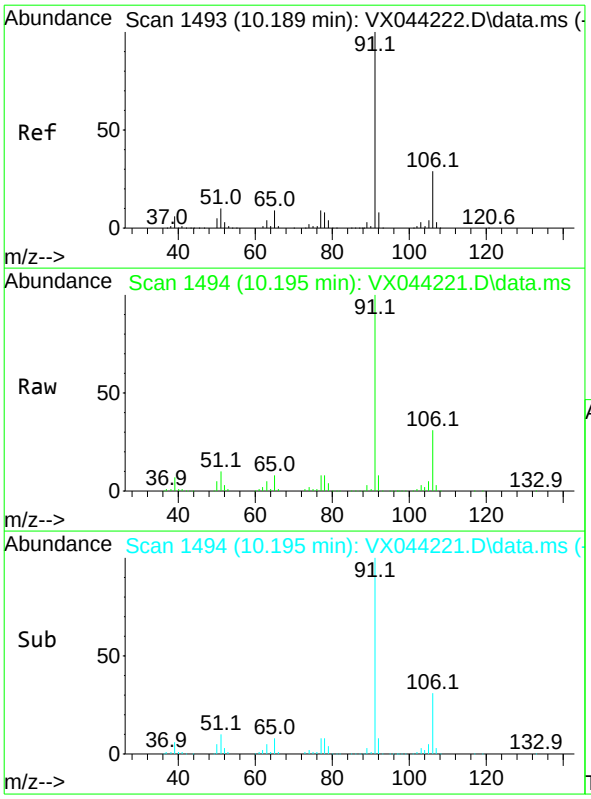


#66
1,1,1,2-Tetrachloroethane
Concen: 19.392 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:131 Resp: 29132

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.3	141.8
119	64.0	31.6	95.0

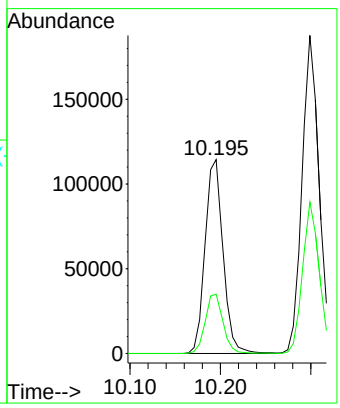




#67
Ethyl Benzene
Concen: 19.619 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 158455

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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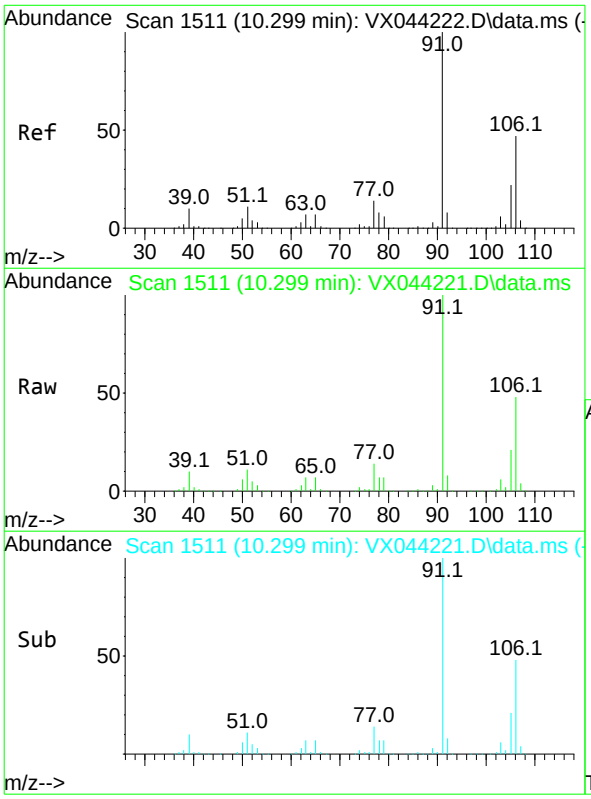
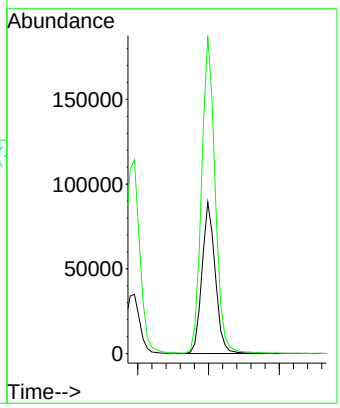
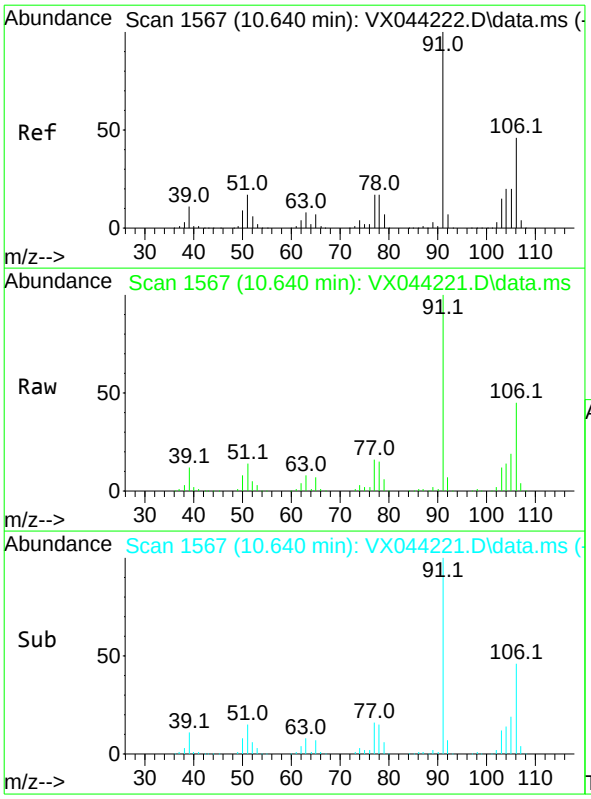


#68
m/p-Xylenes
Concen: 39.183 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:106 Resp: 116126

Ion	Ratio	Lower	Upper
106	100		
91	215.5	170.2	255.2

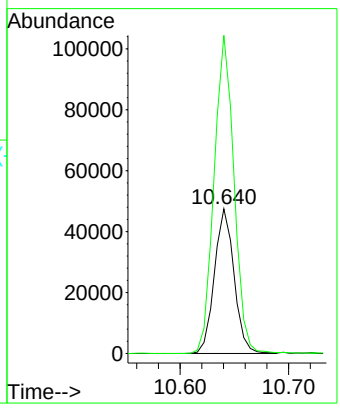




#69
o-Xylene
Concen: 19.938 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:106 Resp: 59787

Ion	Ratio	Lower	Upper
106	100		
91	223.6	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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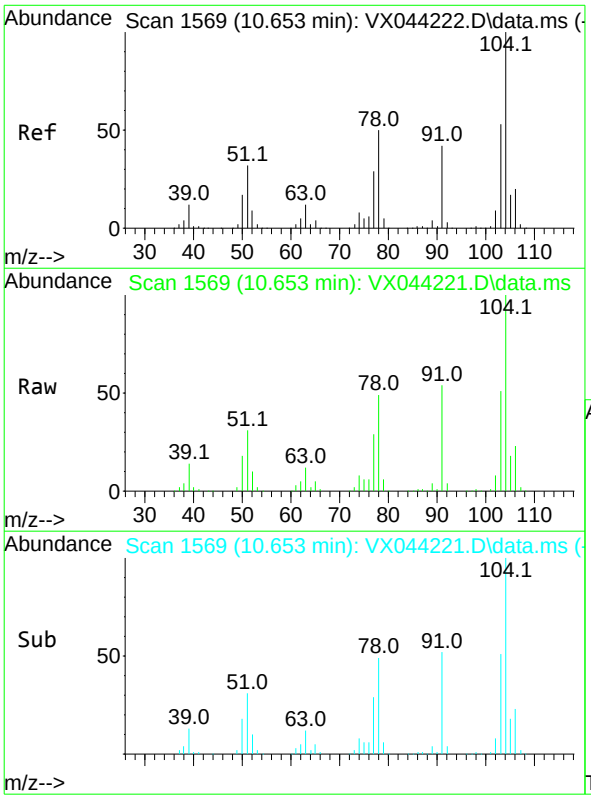
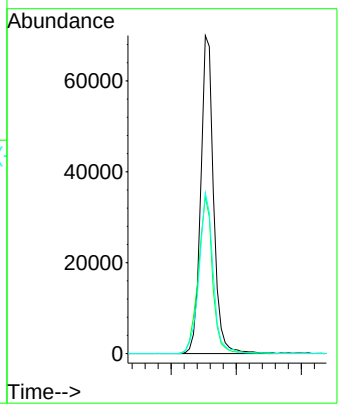
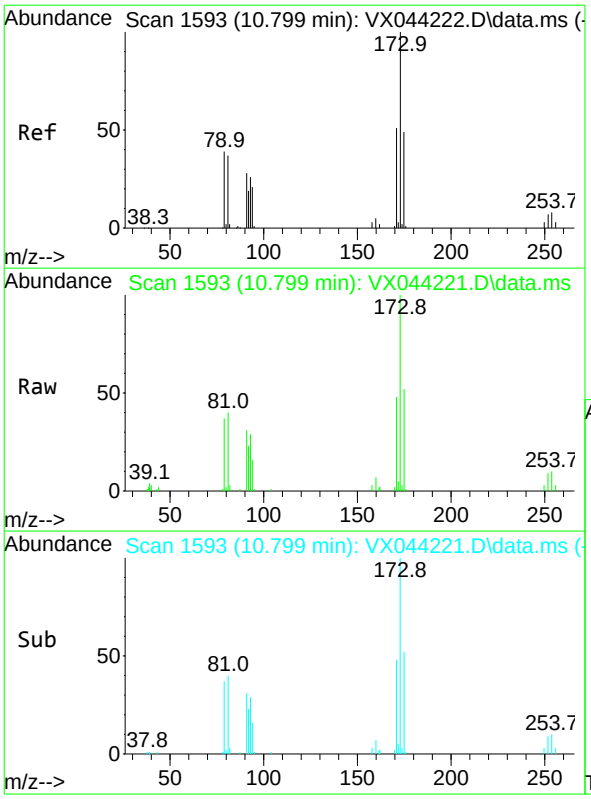


#70
Styrene
Concen: 19.946 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:104 Resp: 95883

Ion	Ratio	Lower	Upper
104	100		
78	54.7	44.6	67.0
103	55.2	45.4	68.0

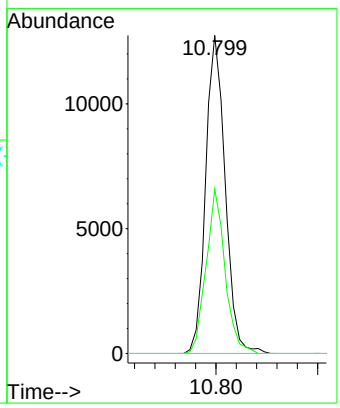




#71
Bromoform
Concen: 18.112 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:173 Resp: 16924

Ion	Ratio	Lower	Upper
173	100		
175	50.5	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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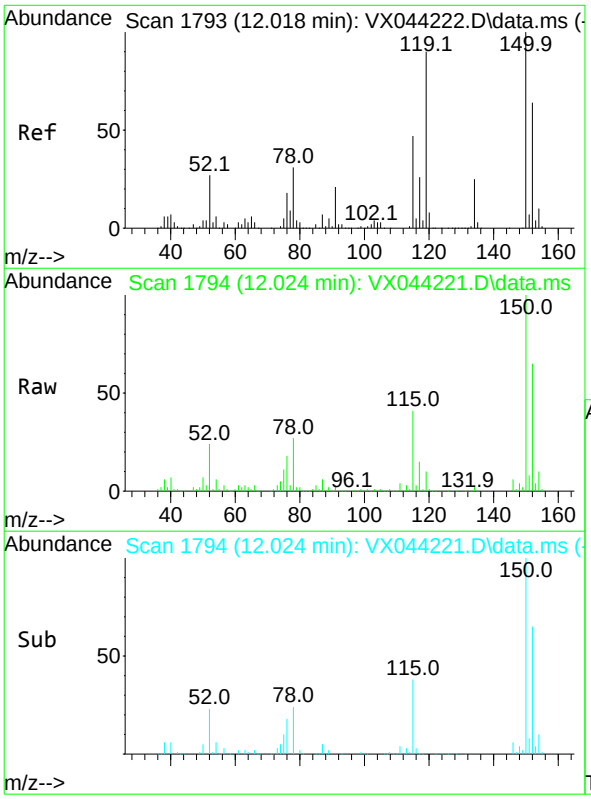
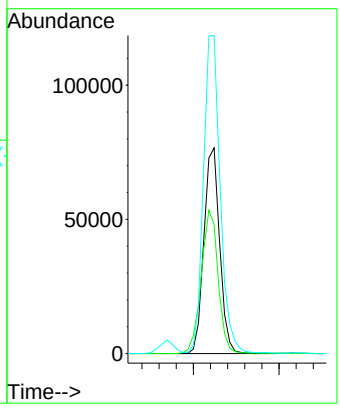
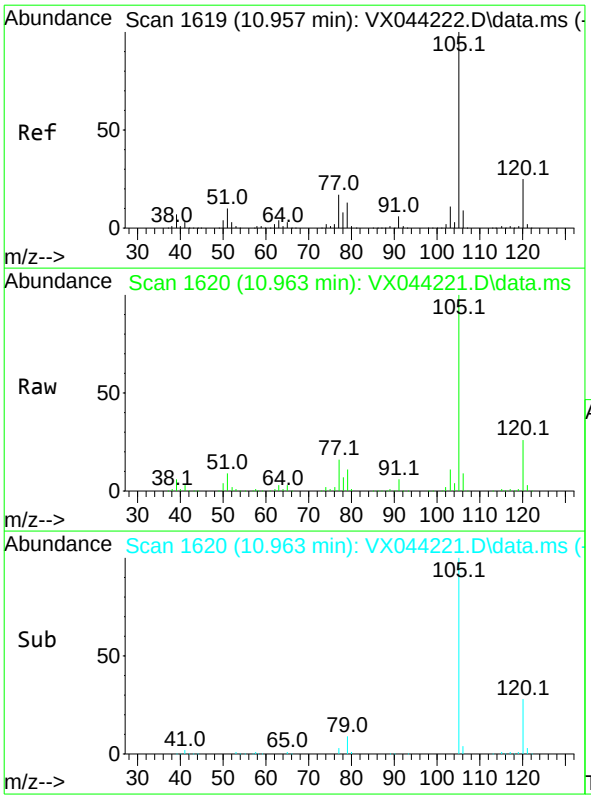


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:152 Resp: 98180

Ion	Ratio	Lower	Upper
152	100		
115	74.8	44.5	133.3
150	164.2	0.0	353.8

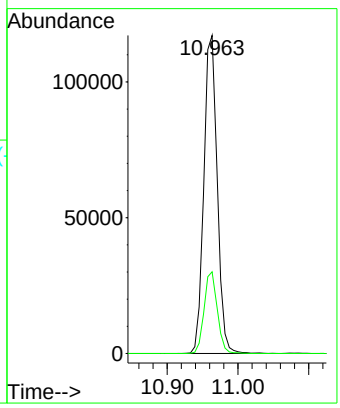




#73
Isopropylbenzene
Concen: 20.481 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 153935

Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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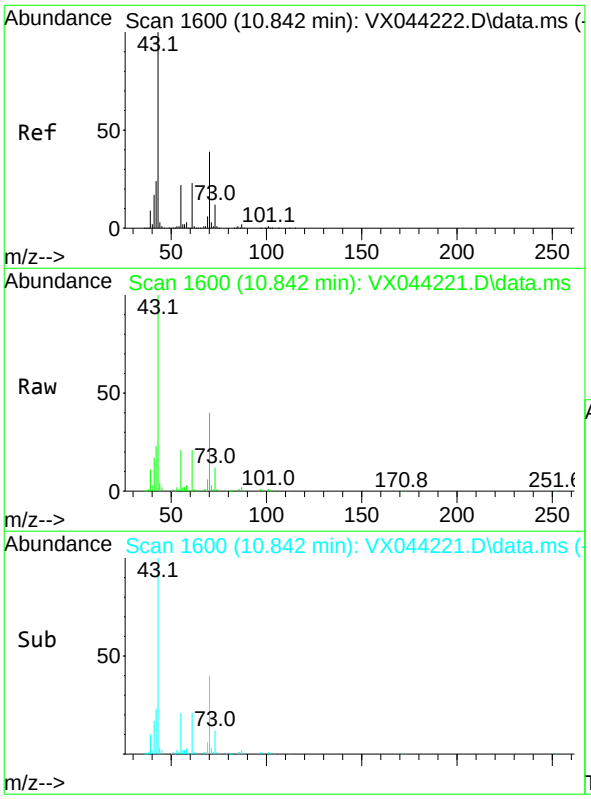
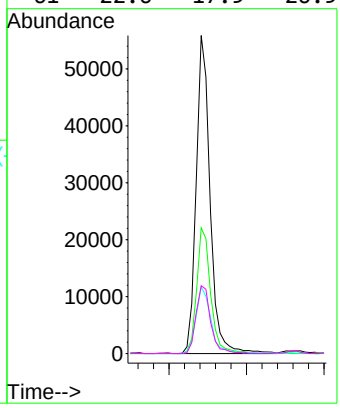
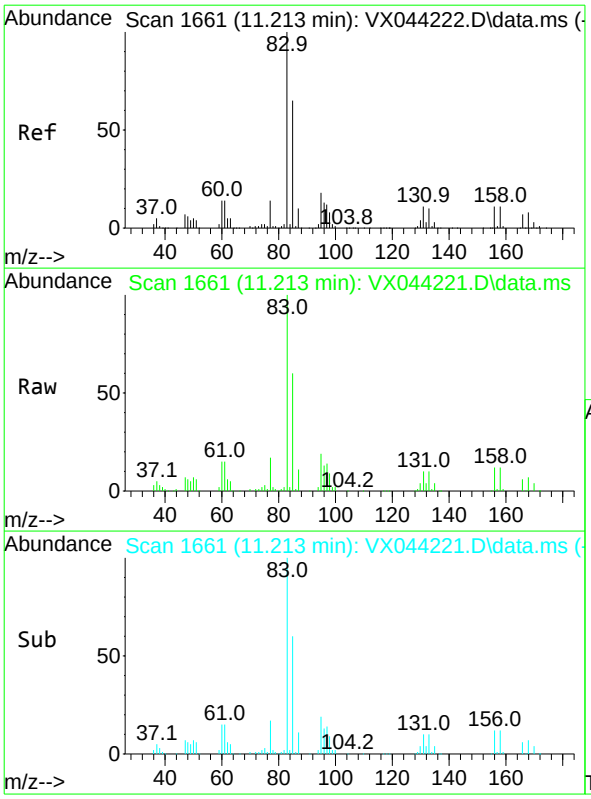


#74
N-amyl acetate
Concen: 20.049 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 69643

Ion	Ratio	Lower	Upper
43	100		
70	39.8	31.9	47.9
55	22.8	17.9	26.9
61	22.6	17.9	26.9

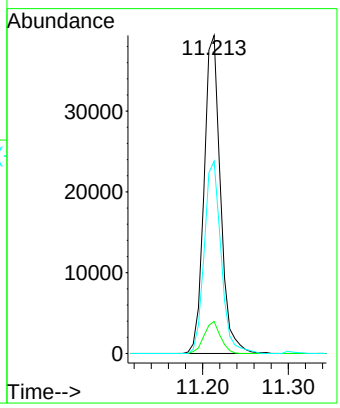




#75
1,1,2,2-Tetrachloroethane
Concen: 20.039 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 52312

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	62.1	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
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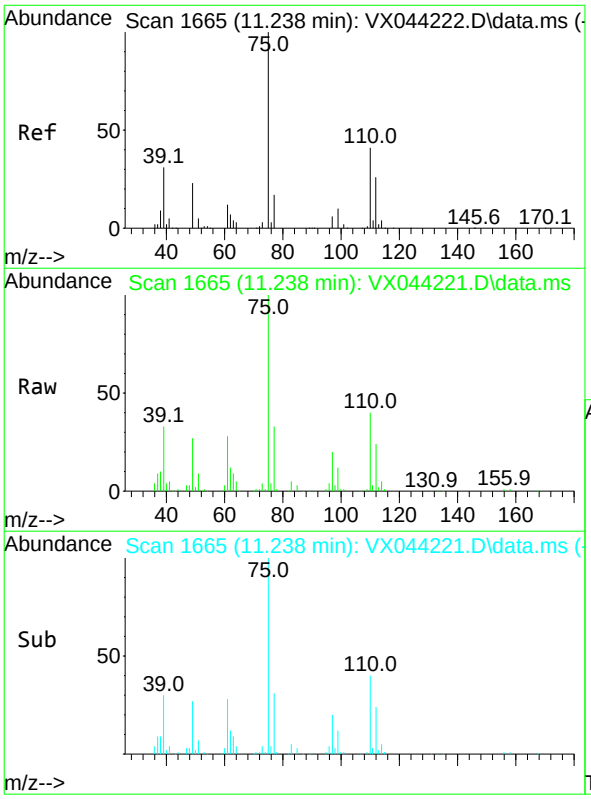
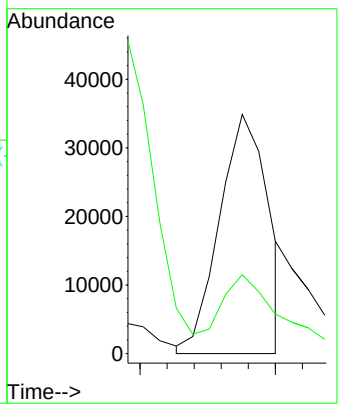
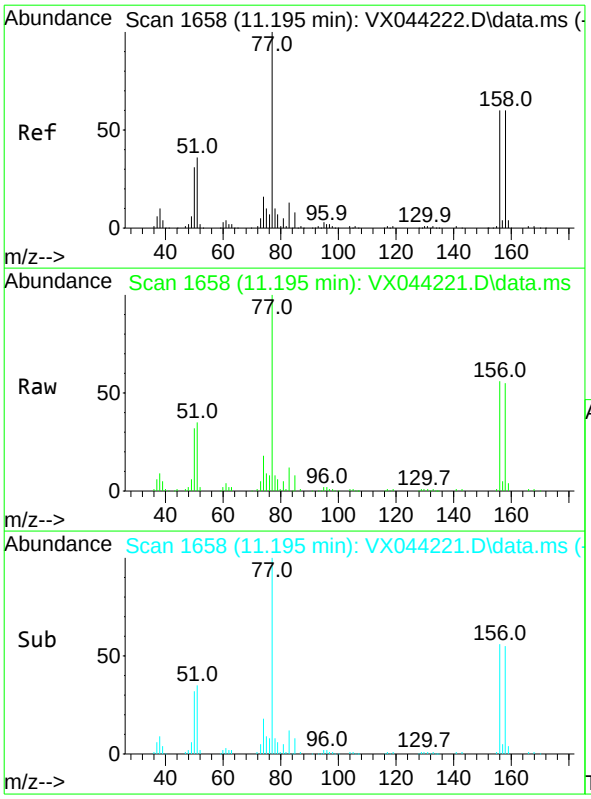


#76
1,2,3-Trichloropropane
Concen: 19.627 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 43726

Ion	Ratio	Lower	Upper
75	100		
77	42.1	20.9	62.7

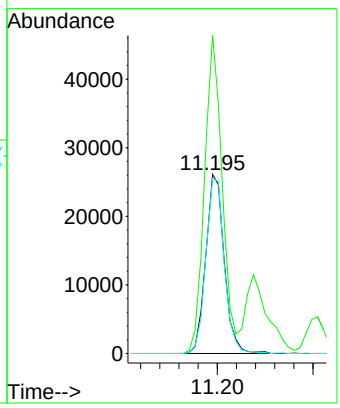




#77
Bromobenzene
Concen: 19.176 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:156 Resp: 34951

Ion	Ratio	Lower	Upper
156	100		
77	169.4	82.6	247.8
158	98.1	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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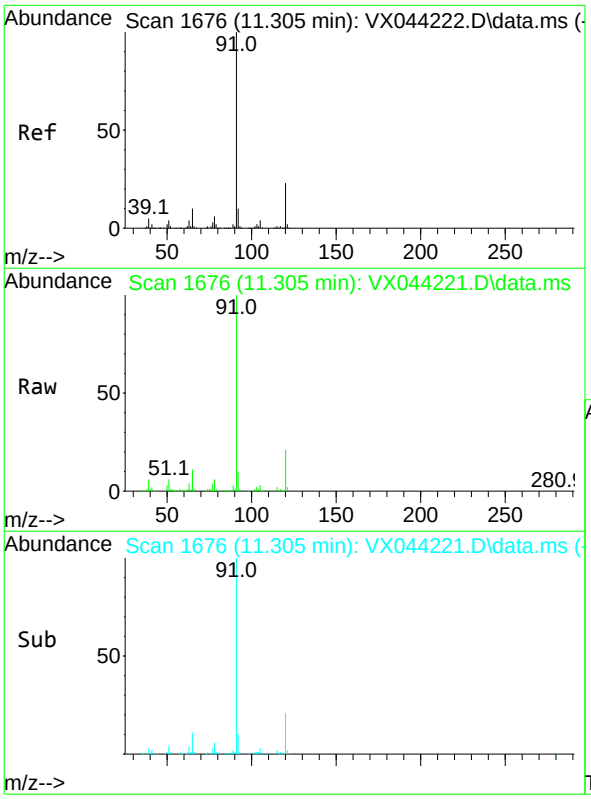
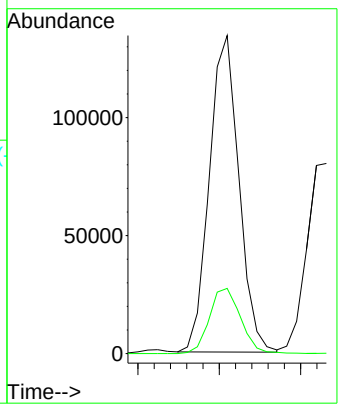
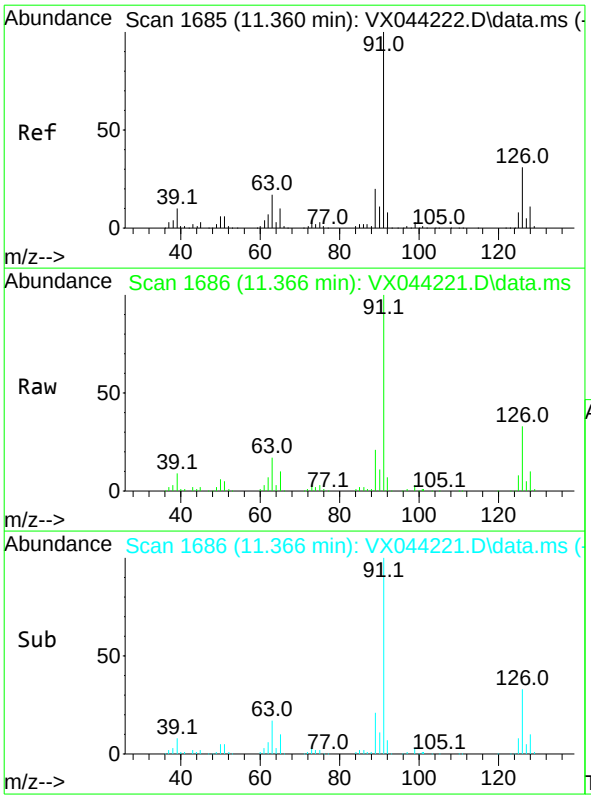


#78
n-propylbenzene
Concen: 20.419 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 169622

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.0	33.0

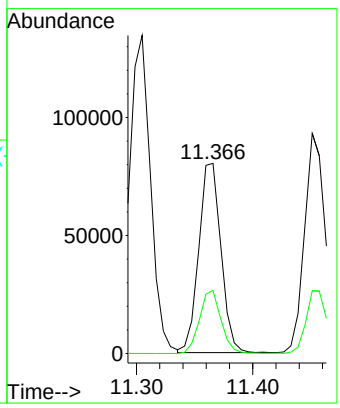




#79
2-Chlorotoluene
Concen: 19.788 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 106310

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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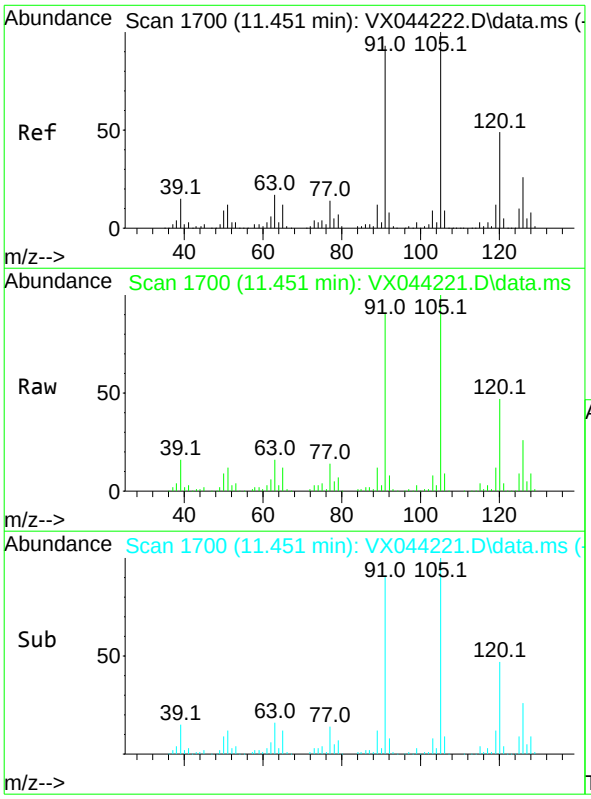
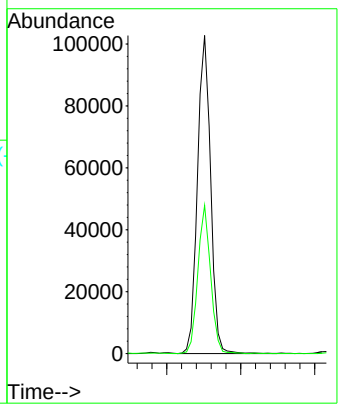
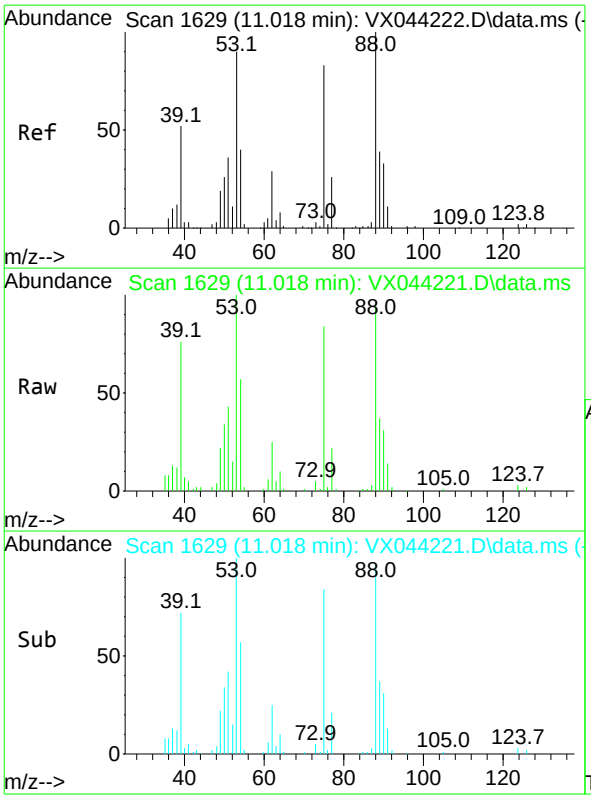


#80
1,3,5-Trimethylbenzene
Concen: 20.315 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 126626

Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.8	71.4

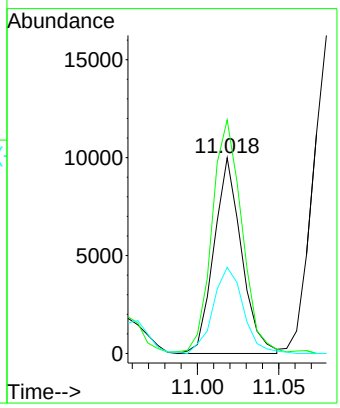




#81
trans-1,4-Dichloro-2-butene
Concen: 19.264 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 11784

Ion	Ratio	Lower	Upper
75	100		
53	130.8	93.6	140.4
89	48.1	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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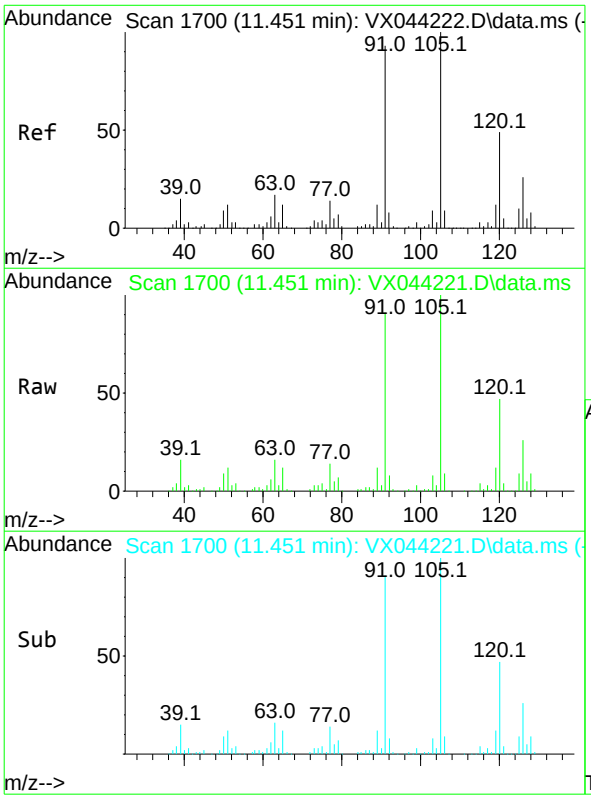
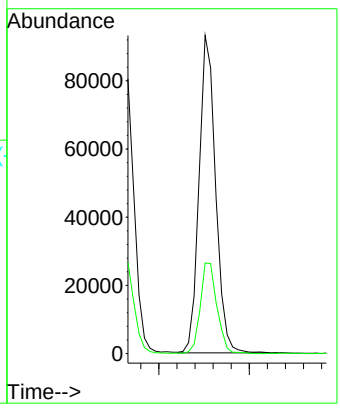
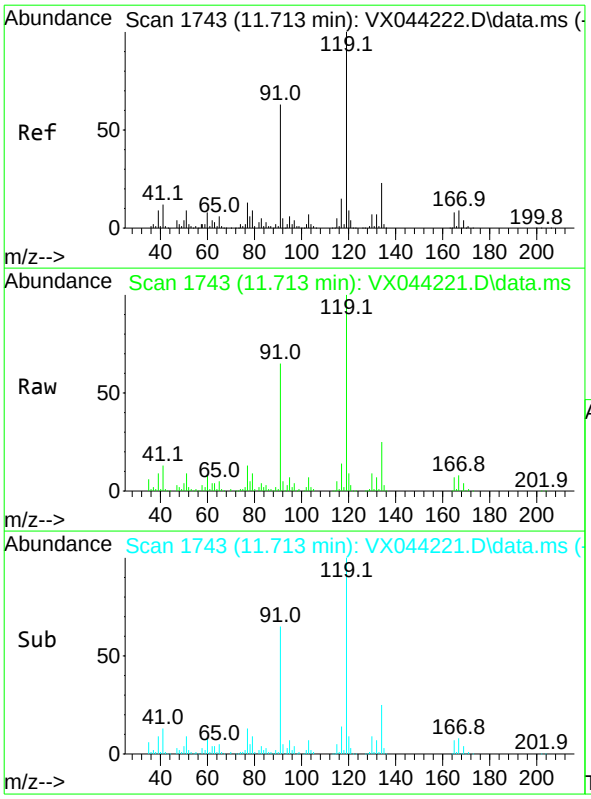


#82
4-Chlorotoluene
Concen: 19.886 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 118309

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.5	43.5

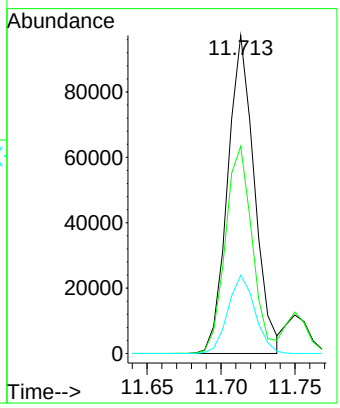




#83
tert-Butylbenzene
Concen: 19.794 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:119 Resp: 121929

Ion	Ratio	Lower	Upper
119	100		
91	66.0	30.9	92.5
134	24.8	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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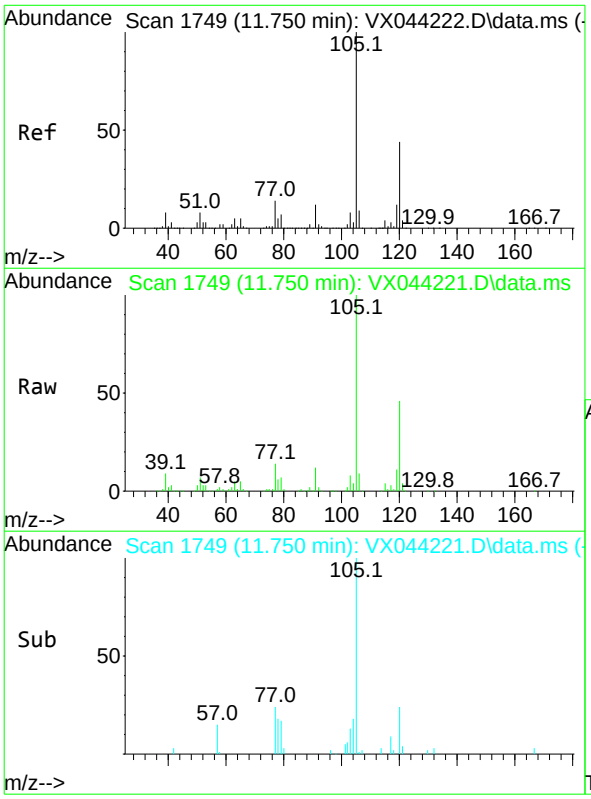
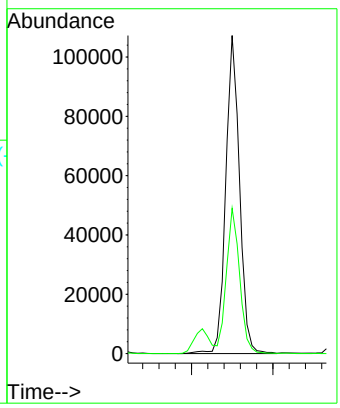
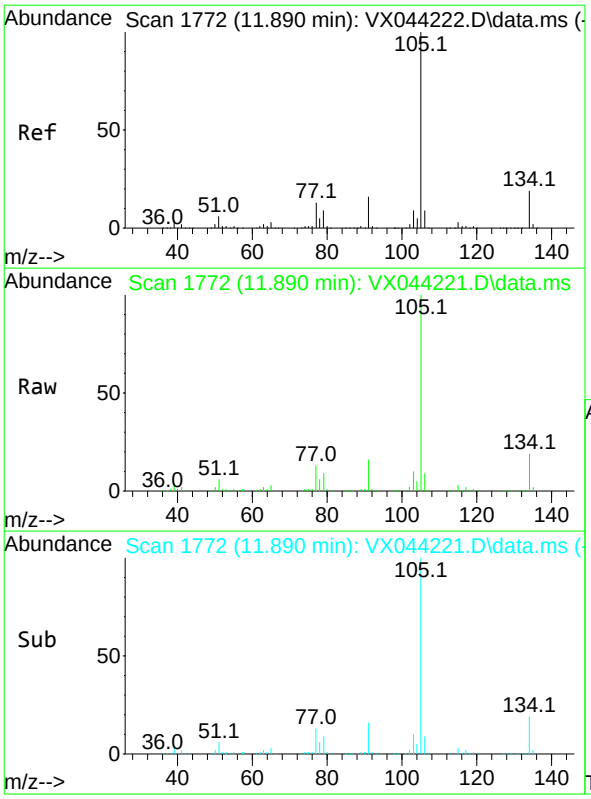


#84
1,2,4-Trimethylbenzene
Concen: 20.574 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 125939

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.7	65.1

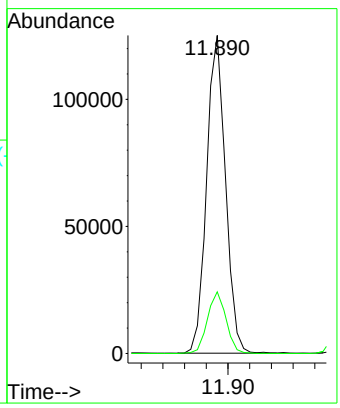




#85
sec-Butylbenzene
Concen: 20.165 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 150795

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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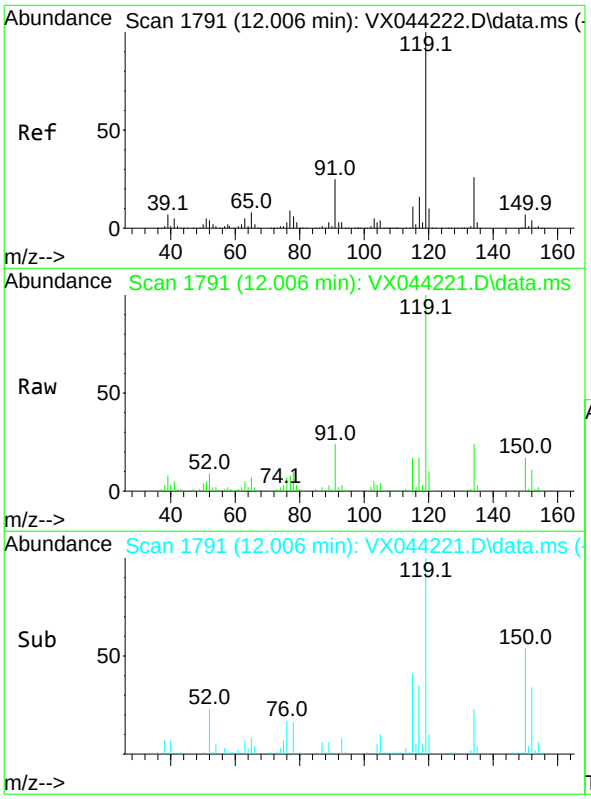
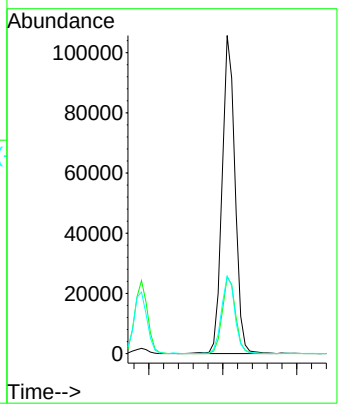
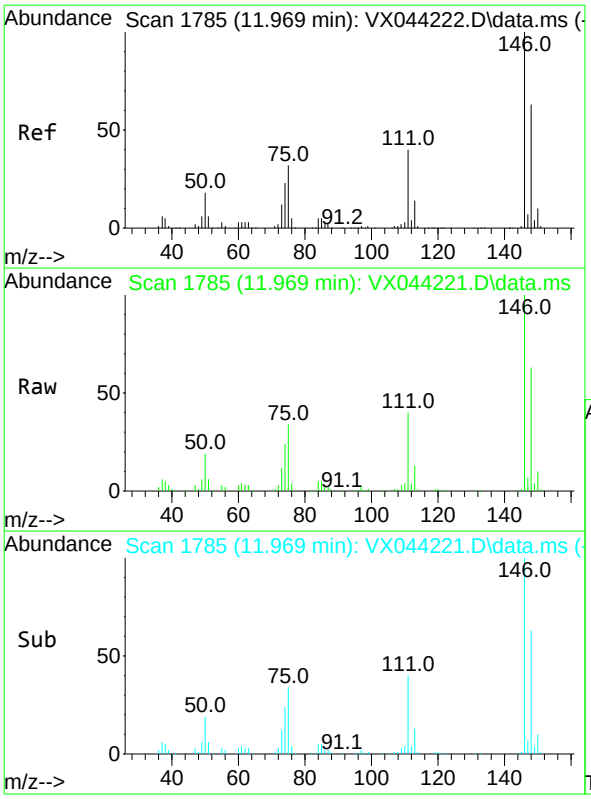


#86
p-Isopropyltoluene
Concen: 20.532 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:119 Resp: 127790

Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.8	38.4
91	25.4	13.0	39.0

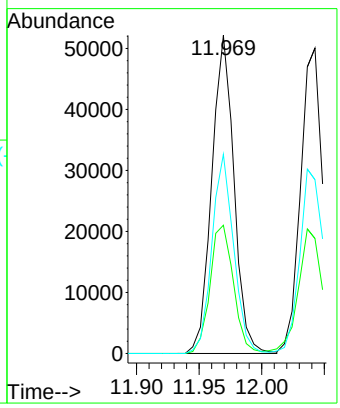




#87
1,3-Dichlorobenzene
Concen: 20.228 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:146 Resp: 64399

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	61.4	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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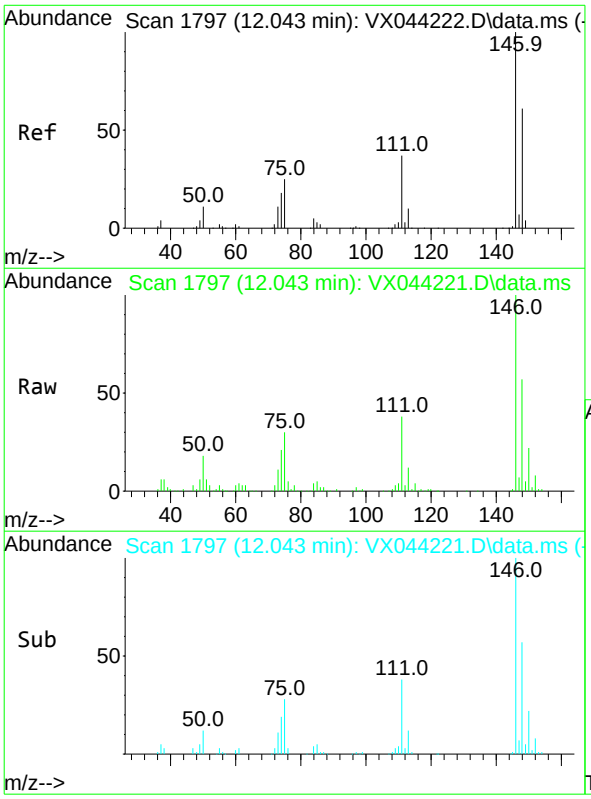
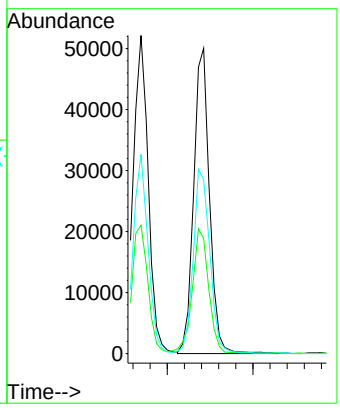
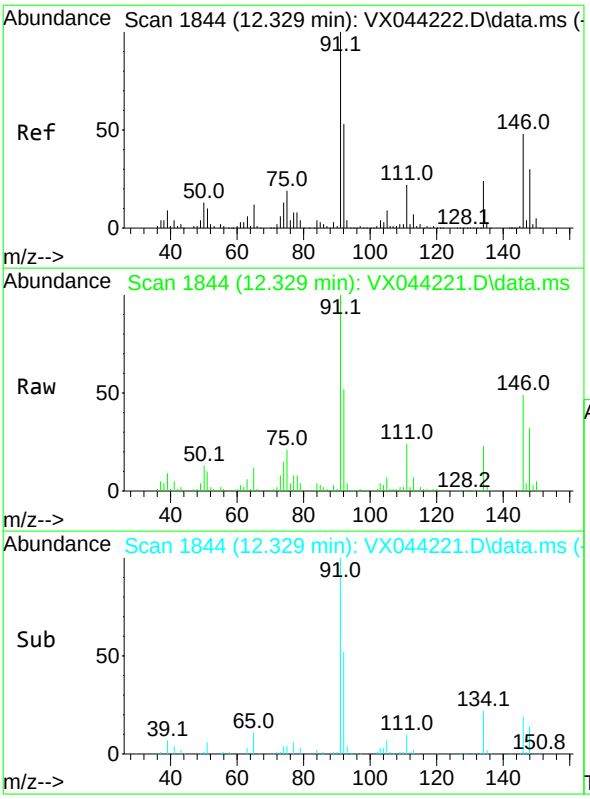


#88
1,4-Dichlorobenzene
Concen: 19.588 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:146 Resp: 64106

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.0	63.0
148	63.2	32.3	96.8

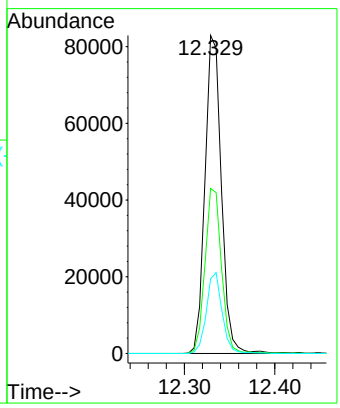




#89
n-Butylbenzene
Concen: 19.950 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 104410

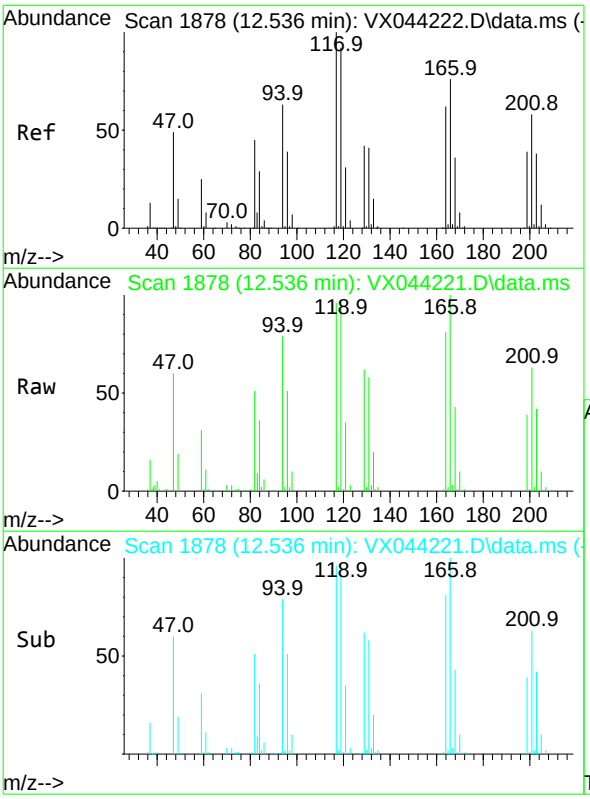
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.6	79.7
134	24.4	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

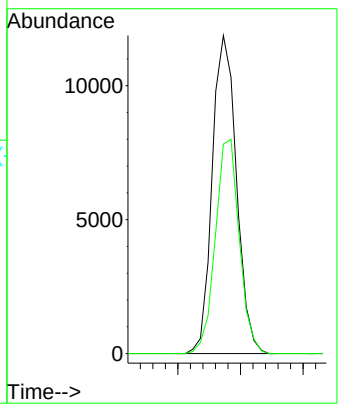
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

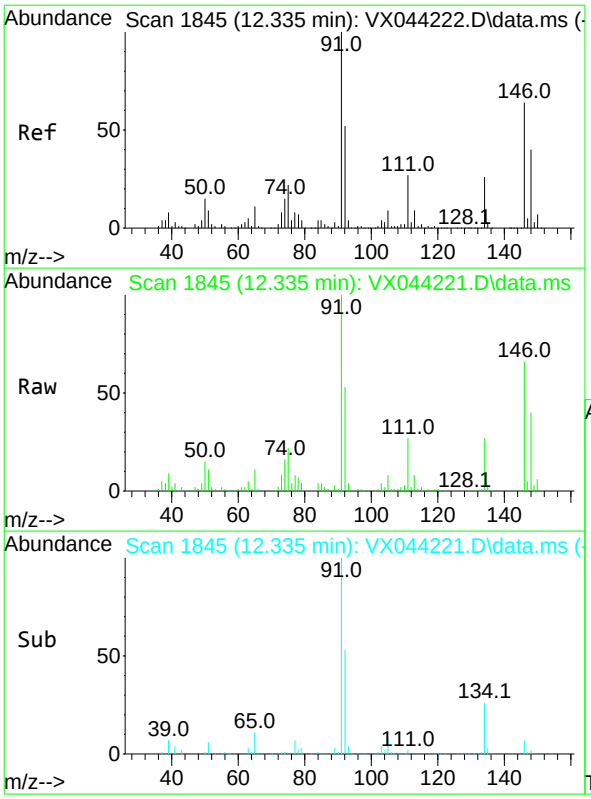


#90
Hexachloroethane
Concen: 17.543 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 15939

Ion	Ratio	Lower	Upper
117	100		
201	66.8	31.4	94.2

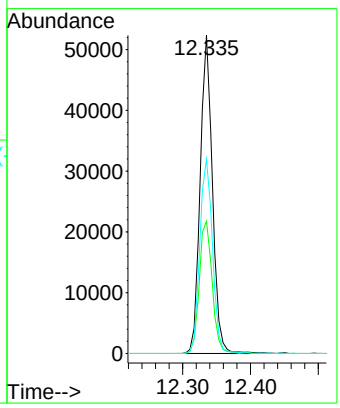




#91
1,2-Dichlorobenzene
Concen: 19.817 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:146 Resp: 65511

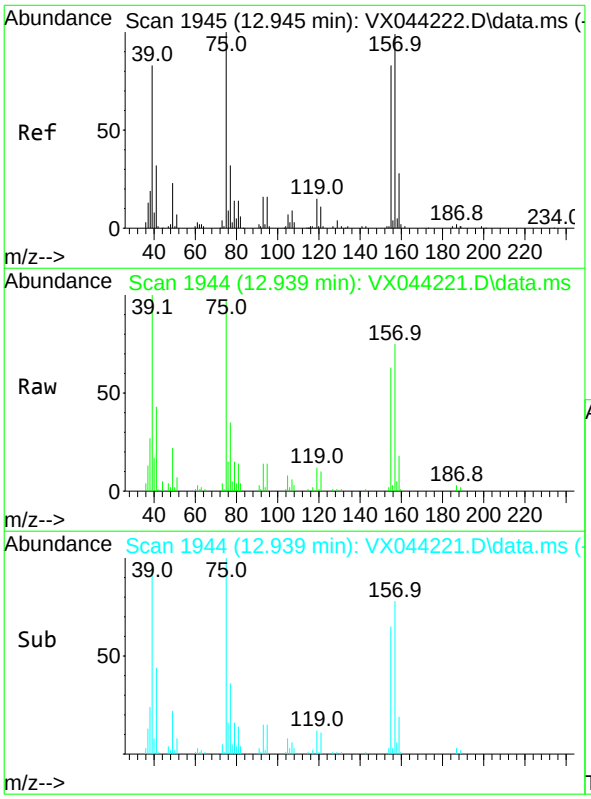
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.3
148	63.5	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

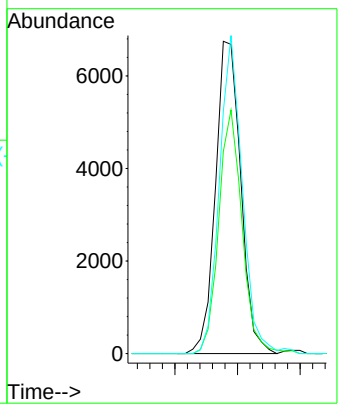
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

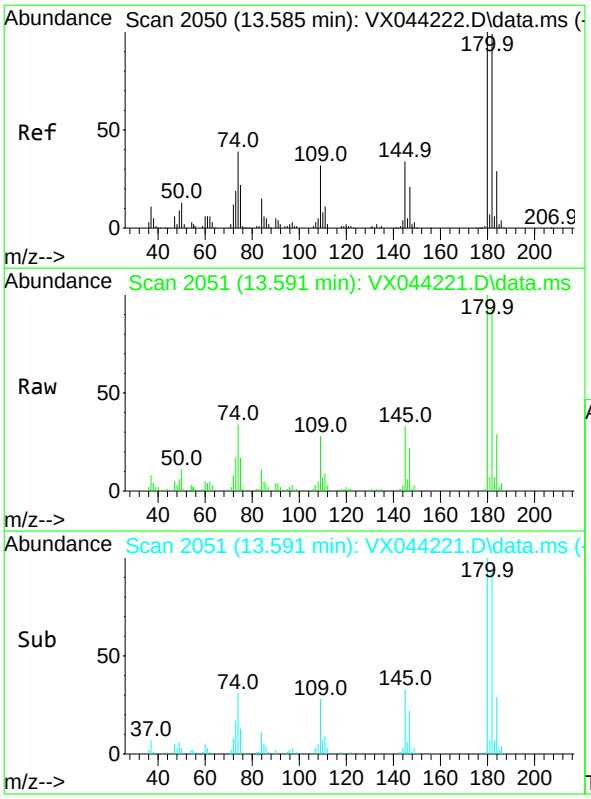


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.683 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 9468

Ion	Ratio	Lower	Upper
75	100		
155	72.1	38.1	114.3
157	92.2	47.2	141.6

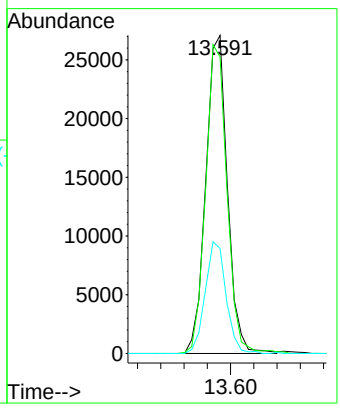




#93
1,2,4-Trichlorobenzene
Concen: 19.313 ug/l
RT: 13.591 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:180 Resp: 35001

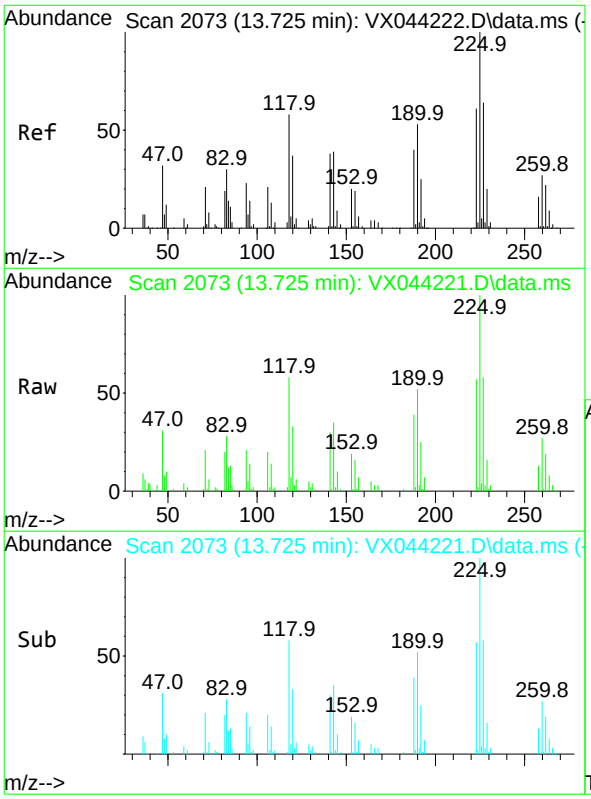
Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.0	144.2
145	33.9	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

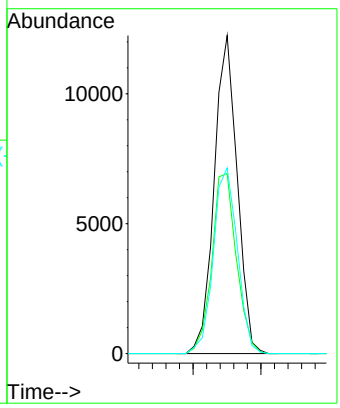
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

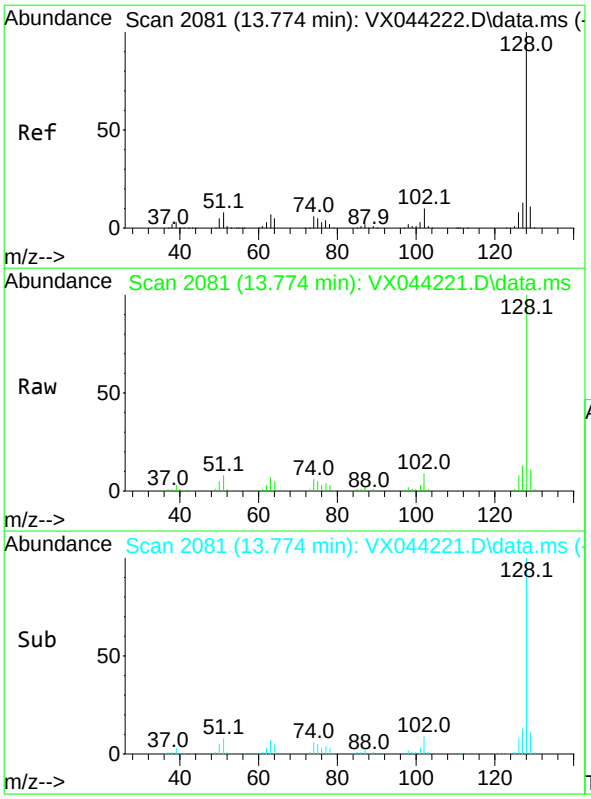


#94
Hexachlorobutadiene
Concen: 19.774 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:225 Resp: 14415

Ion	Ratio	Lower	Upper
225	100		
223	60.5	30.8	92.4
227	60.9	32.1	96.3

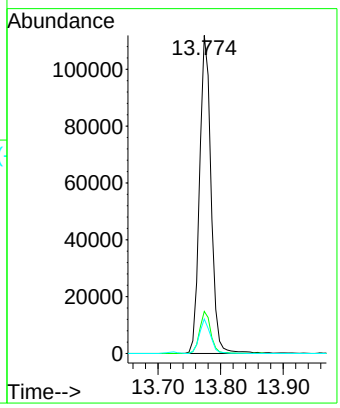




#95
Naphthalene
Concen: 20.146 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:128 Resp: 142515

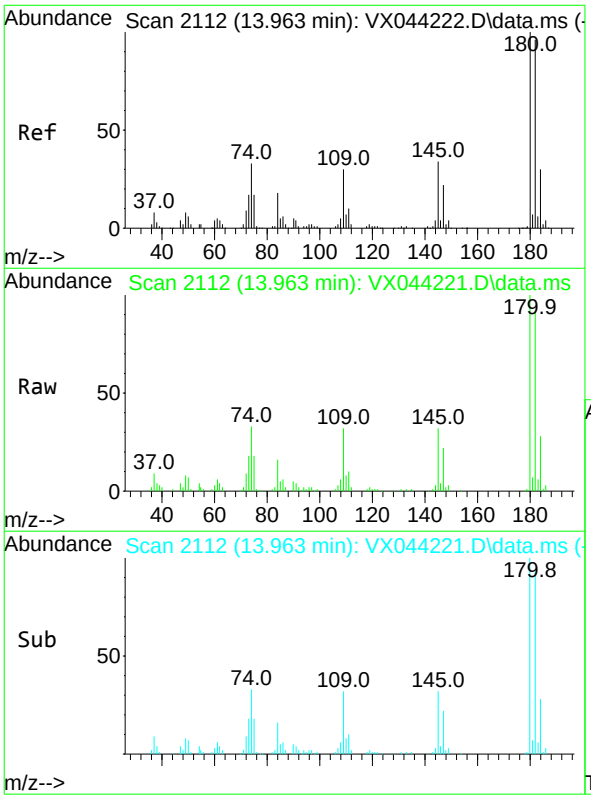
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.4	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

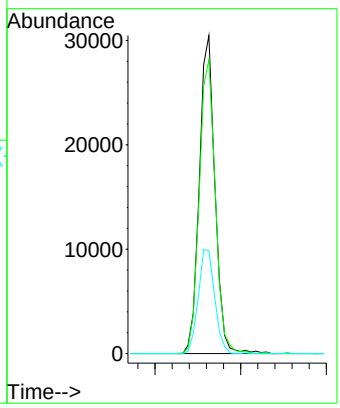
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 20.101 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:180 Resp: 38639

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.0
145	34.3	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
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 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	125713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233488	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	205196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95227	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	115815	52.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.080%			
35) Dibromofluoromethane	5.385	113	85656	52.968	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.940%			
50) Toluene-d8	8.647	98	292199	53.559	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.120%			
62) 4-Bromofluorobenzene	11.079	95	103178	54.123	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	99052	50.957	ug/l	100
3) Chloromethane	1.295	50	94981	51.097	ug/l	100
4) Vinyl Chloride	1.374	62	98852	51.045	ug/l	100
5) Bromomethane	1.593	94	69250	50.405	ug/l	100
6) Chloroethane	1.666	64	66862	55.448	ug/l	100
7) Trichlorofluoromethane	1.868	101	193676	51.086	ug/l	100
8) Diethyl Ether	2.136	74	64542	49.875	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	77275	50.371	ug/l	100
10) Methyl Iodide	2.441	142	106509	52.678	ug/l	100
11) Tert butyl alcohol	2.995	59	75690m	244.039	ug/l	
12) 1,1-Dichloroethene	2.307	96	74884	53.143	ug/l	100
13) Acrolein	2.239	56	116171	258.347	ug/l	100
14) Allyl chloride	2.654	41	126925	54.079	ug/l	100
15) Acrylonitrile	3.069	53	225330	261.859	ug/l	100
16) Acetone	2.392	43	239661	266.704	ug/l	100
17) Carbon Disulfide	2.502	76	144624	53.994	ug/l	100
18) Methyl Acetate	2.709	43	119808	51.710	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	289735	52.691	ug/l	100
20) Methylene Chloride	2.782	84	86593	51.305	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	77834	51.974	ug/l	100
22) Diisopropyl ether	3.764	45	273039	51.662	ug/l	100
23) Vinyl Acetate	3.721	43	1202044	279.754	ug/l	100
24) 1,1-Dichloroethane	3.605	63	156412	53.093	ug/l	100
25) 2-Butanone	4.562	43	344663	269.797	ug/l	100
26) 2,2-Dichloropropane	4.465	77	131428	54.914	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	97013	51.007	ug/l	100
28) Bromochloromethane	4.898	49	74477	51.555	ug/l	100
29) Tetrahydrofuran	5.007	42	212103	258.669	ug/l	100
30) Chloroform	5.087	83	168864	51.017	ug/l	100
31) Cyclohexane	5.465	56	122841	51.637	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	147834	53.806	ug/l	100
36) 1,1-Dichloropropene	5.690	75	103760	49.638	ug/l	100
37) Ethyl Acetate	4.721	43	135753	52.537	ug/l	100
38) Carbon Tetrachloride	5.672	117	117076	52.023	ug/l	100
39) Methylcyclohexane	7.373	83	129697	51.901	ug/l	100
40) Benzene	6.031	78	329154	51.863	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	70427	51.329	ug/l		100
42) 1,2-Dichloroethane	6.086	62	136309	52.138	ug/l		100
43) Isopropyl Acetate	6.342	43	213891	52.961	ug/l		100
44) Trichloroethene	7.123	130	81542	51.521	ug/l		100
45) 1,2-Dichloropropane	7.428	63	83376	51.420	ug/l		100
46) Dibromomethane	7.580	93	66786	53.092	ug/l		100
47) Bromodichloromethane	7.824	83	118634	54.607	ug/l		100
48) Methyl methacrylate	7.696	41	103726	52.909	ug/l		100
49) 1,4-Dioxane	7.671	88	35263m	1052.498	ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	688666	265.203	ug/l		100
52) Toluene	8.714	92	204738	51.370	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	120007	51.362	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	132286	55.923	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	83488	52.729	ug/l		100
56) Ethyl methacrylate	9.116	69	134770	53.917	ug/l		100
57) 1,3-Dichloropropane	9.305	76	143044	51.904	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	342592	271.745	ug/l		100
59) 2-Hexanone	9.433	43	512906	272.881	ug/l		100
60) Dibromochloromethane	9.519	129	86352	51.400	ug/l		100
61) 1,2-Dibromoethane	9.604	107	86150	53.454	ug/l		100
64) Tetrachloroethene	9.269	164	65888	48.379	ug/l		100
65) Chlorobenzene	10.080	112	223269	50.779	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	76867	54.396	ug/l		100
67) Ethyl Benzene	10.189	91	395430	52.050	ug/l		100
68) m/p-Xylenes	10.299	106	290181	104.094	ug/l		100
69) o-Xylene	10.640	106	144247	51.141	ug/l		100
70) Styrene	10.653	104	238379	52.719	ug/l		100
71) Bromoform	10.799	173	50667	51.158	ug/l	#	100
73) Isopropylbenzene	10.957	105	372519	51.100	ug/l		100
74) N-amyl acetate	10.842	43	182491	54.166	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	127193	50.233	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	107003m	49.518	ug/l		
77) Bromobenzene	11.195	156	89687	50.734	ug/l		100
78) n-propylbenzene	11.305	91	428741	53.211	ug/l		100
79) 2-Chlorotoluene	11.360	91	263849	50.634	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	314986	52.102	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	35119	47.628	ug/l		100
82) 4-Chlorotoluene	11.451	91	296520	51.387	ug/l		100
83) tert-Butylbenzene	11.713	119	310320	51.940	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	313338	52.776	ug/l		100
85) sec-Butylbenzene	11.890	105	379552	52.329	ug/l		100
86) p-Isopropyltoluene	12.006	119	318721	52.796	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	160223	51.887	ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	159258	50.171	ug/l		100
89) n-Butylbenzene	12.329	91	270840	53.354	ug/l		100
90) Hexachloroethane	12.536	117	48303	54.813	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	164342	51.256	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26027	52.951	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	93173	53.005	ug/l		100
94) Hexachlorobutadiene	13.725	225	35172	49.744	ug/l		100
95) Naphthalene	13.774	128	365234	53.230	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	97000	52.027	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
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 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

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

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

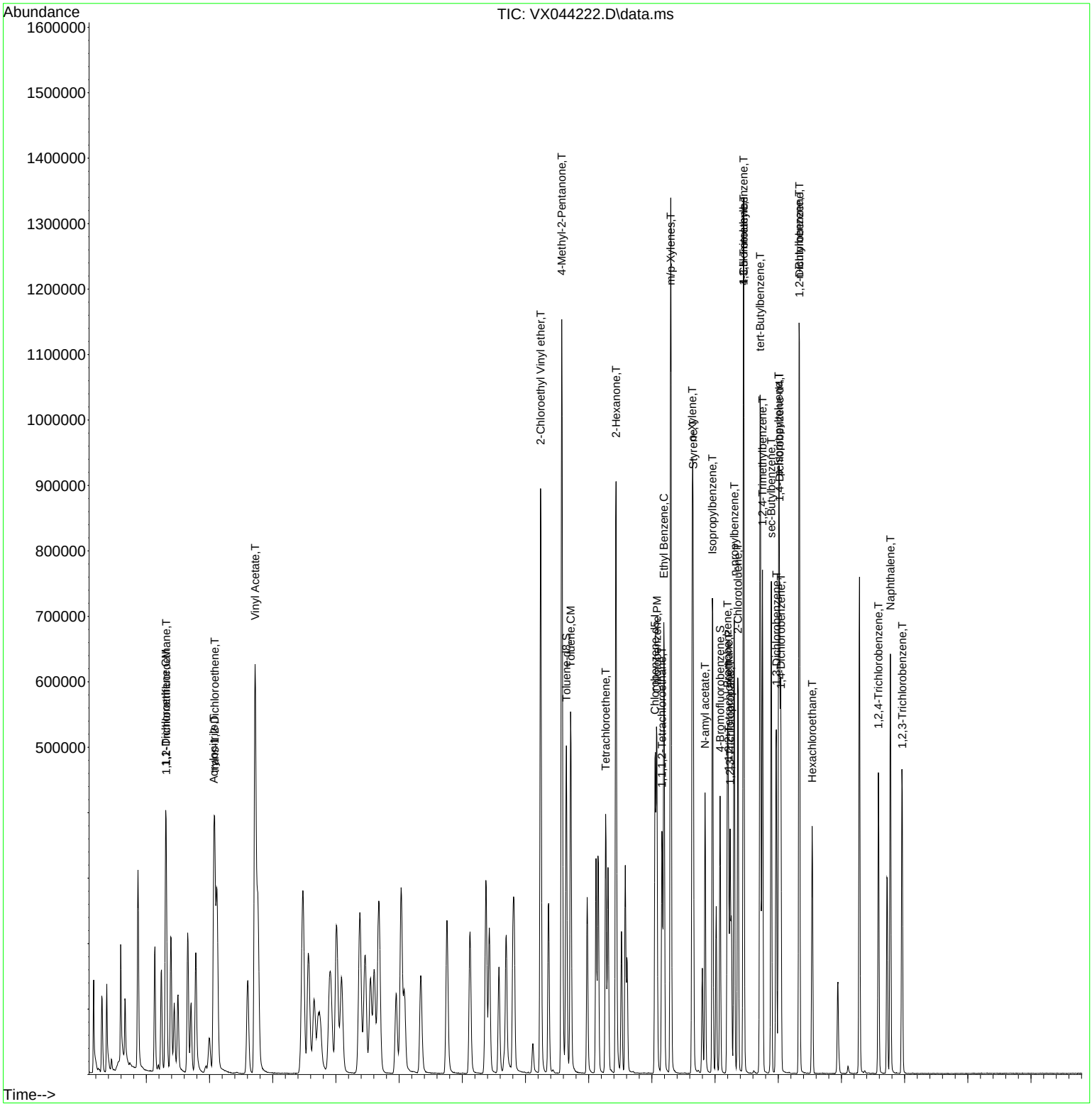
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

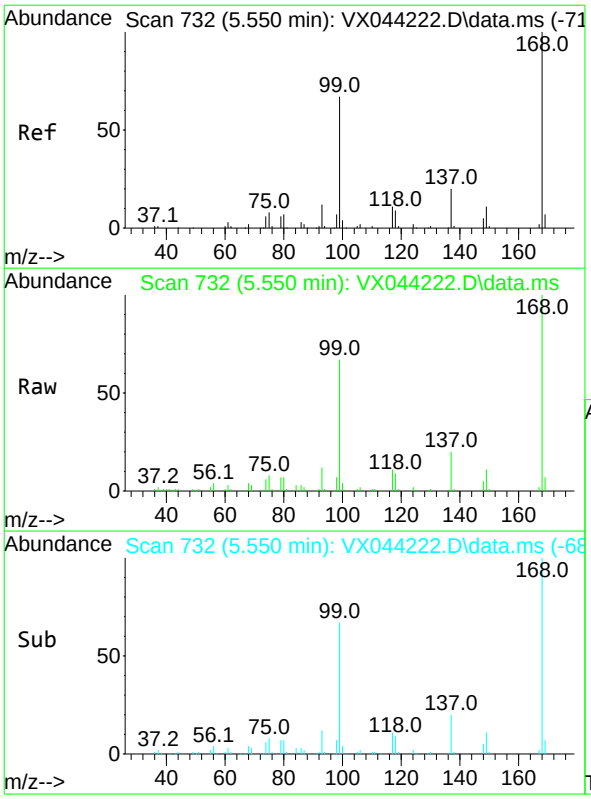
Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

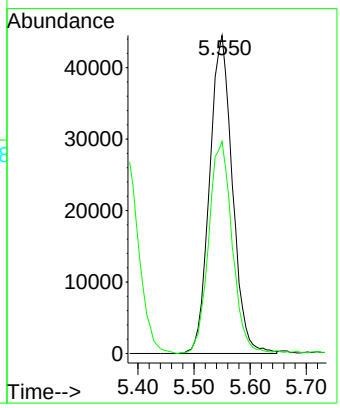




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:168 Resp: 125713

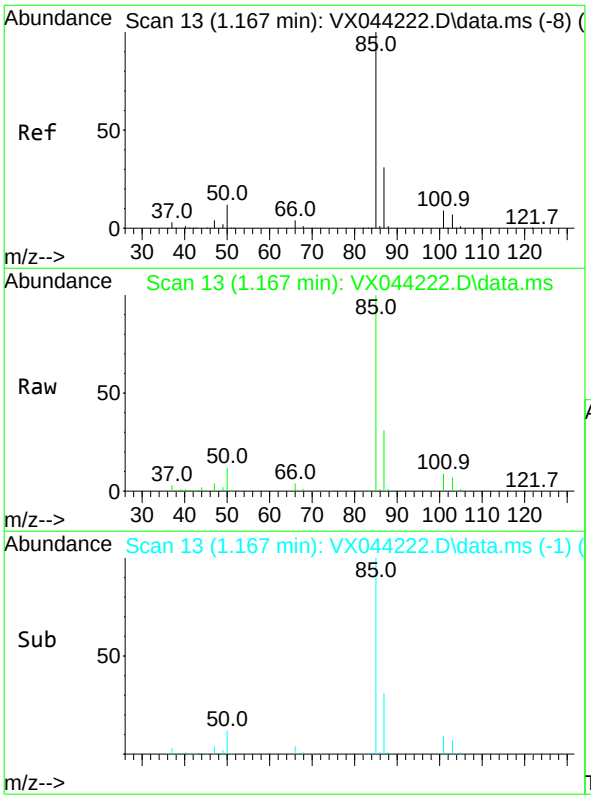
Ion	Ratio	Lower	Upper
168	100		
99	66.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

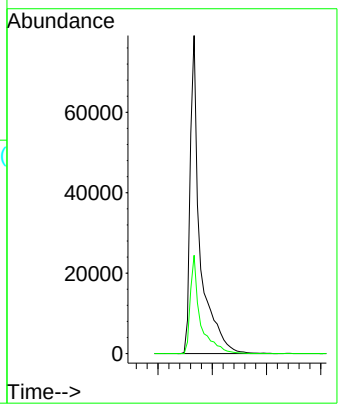
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

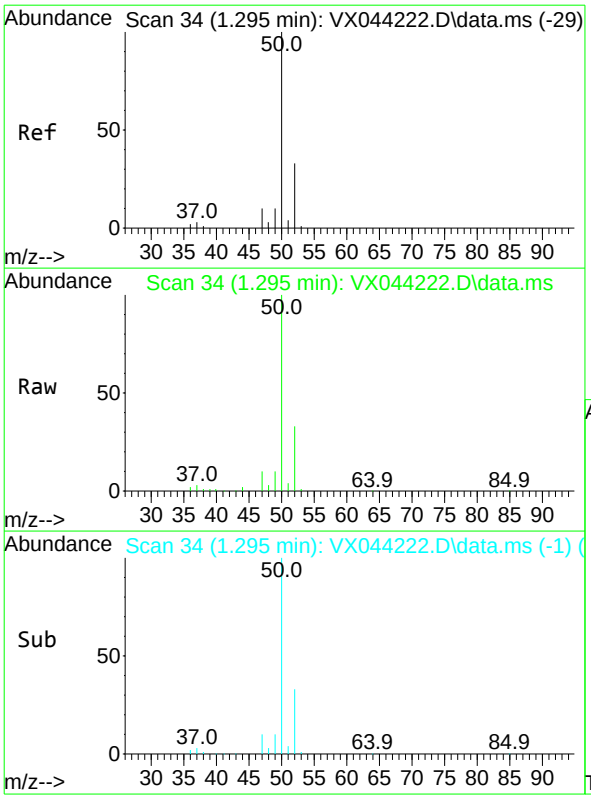


#2
Dichlorodifluoromethane
Concen: 50.957 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 85 Resp: 99052

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.4	46.4

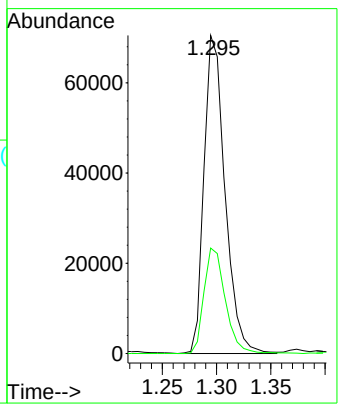




#3
Chloromethane
Concen: 51.097 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 50 Resp: 94981

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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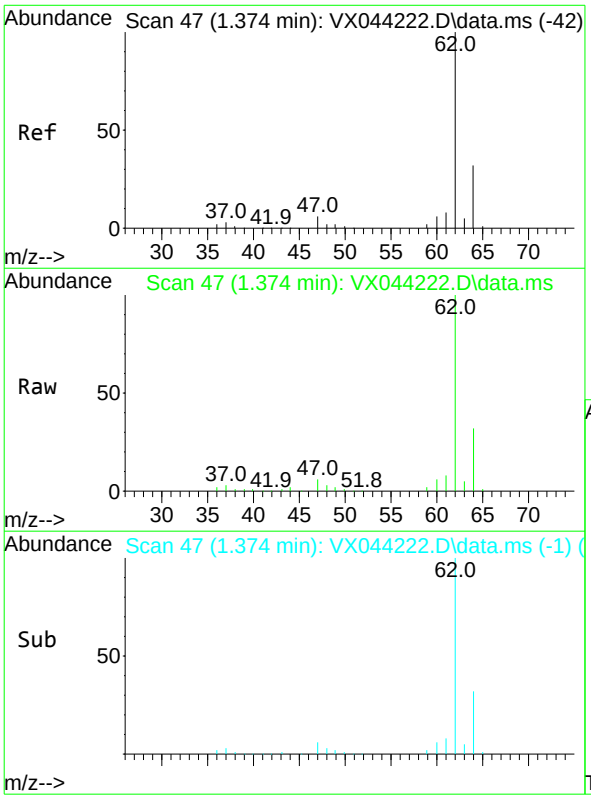
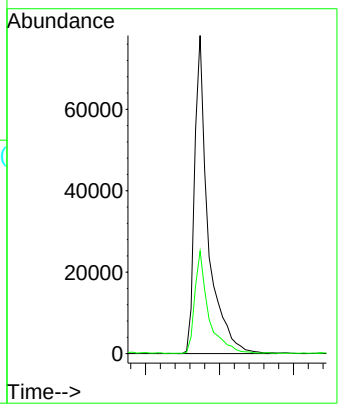
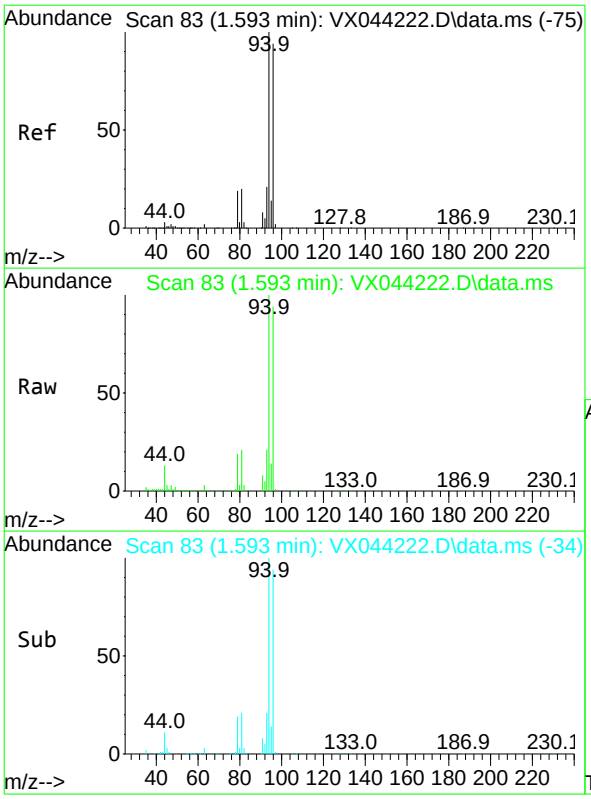


#4
Vinyl Chloride
Concen: 51.045 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 98852

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

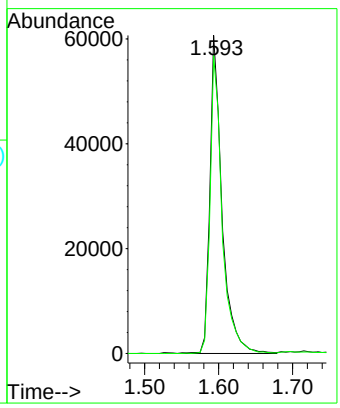




#5
Bromomethane
Concen: 50.405 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 94 Resp: 69250

Ion	Ratio	Lower	Upper
94	100		
96	93.6	74.9	112.3



Instrument :
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ClientSampleId :
VSTDICCC050

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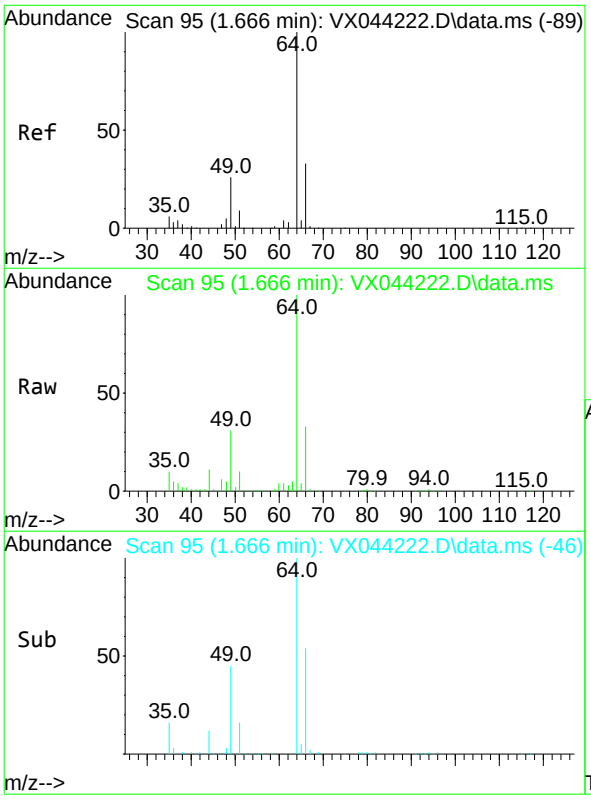
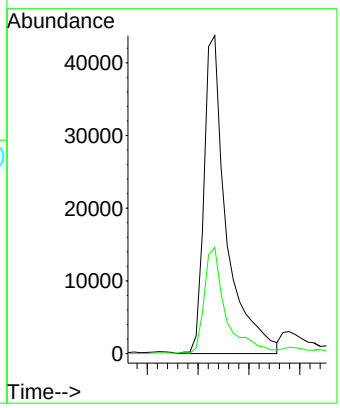
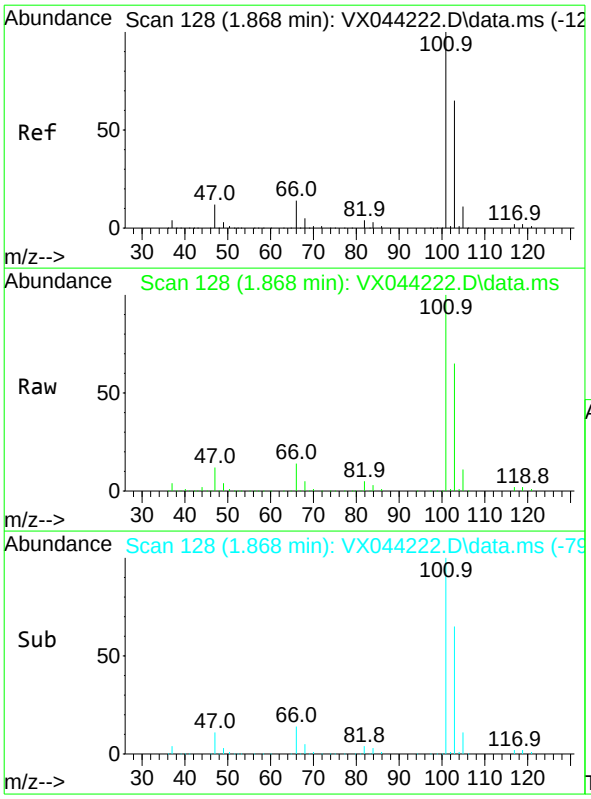


#6
Chloroethane
Concen: 55.448 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 64 Resp: 66862

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8

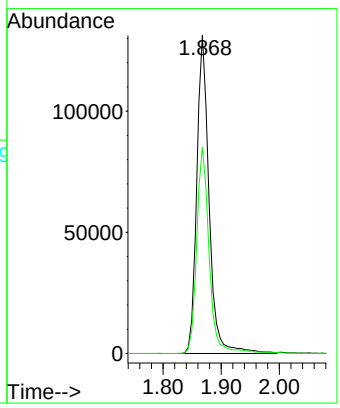




#7
Trichlorofluoromethane
Concen: 51.086 ug/l
RT: 1.868 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:101 Resp: 193676

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
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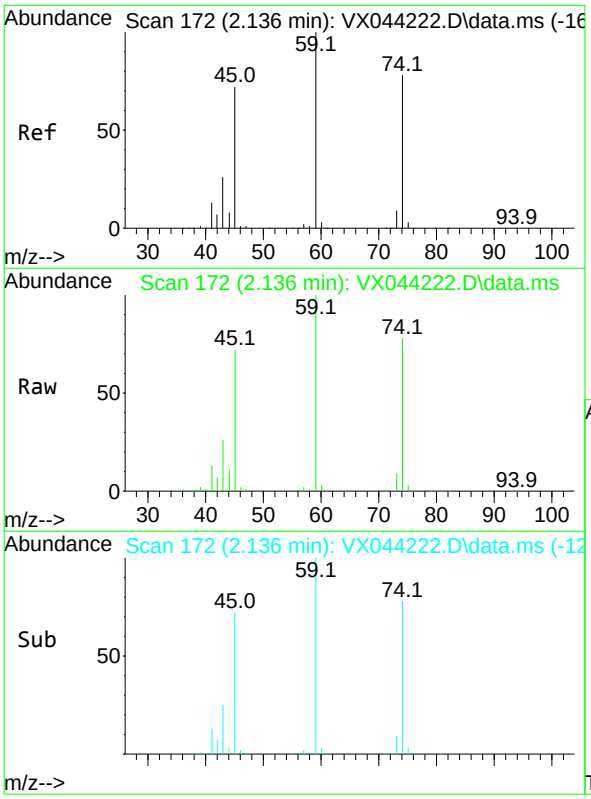
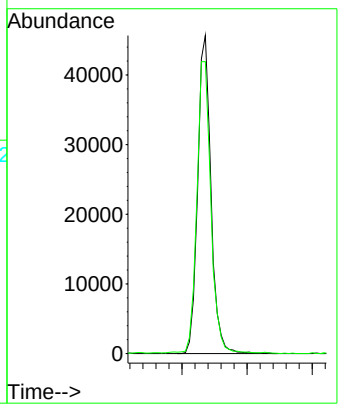
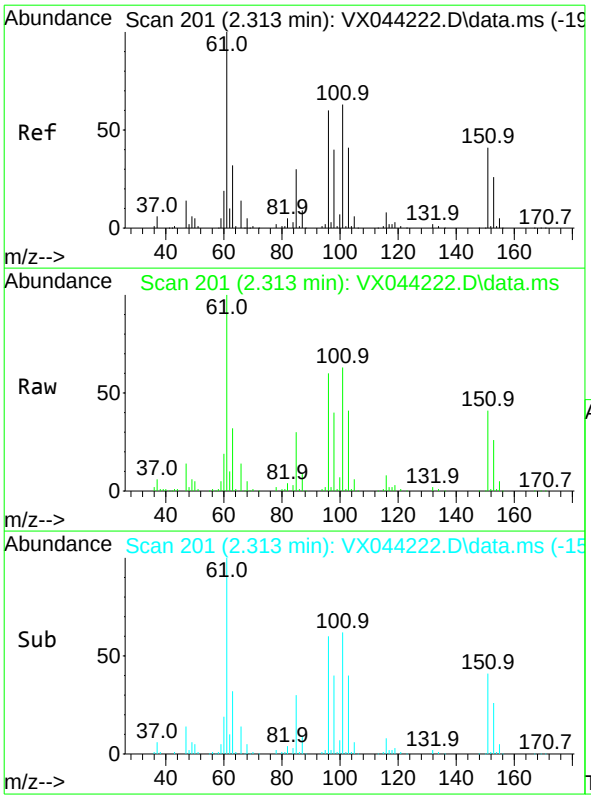


#8
Diethyl Ether
Concen: 49.875 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 74 Resp: 64542

Ion	Ratio	Lower	Upper
74	100		
45	96.7	48.4	145.0

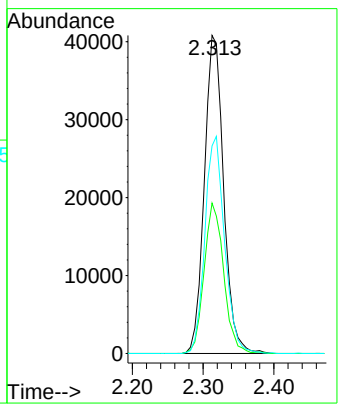




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.371 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:101 Resp: 77275

Ion	Ratio	Lower	Upper
101	100		
85	48.1	38.5	57.7
151	69.7	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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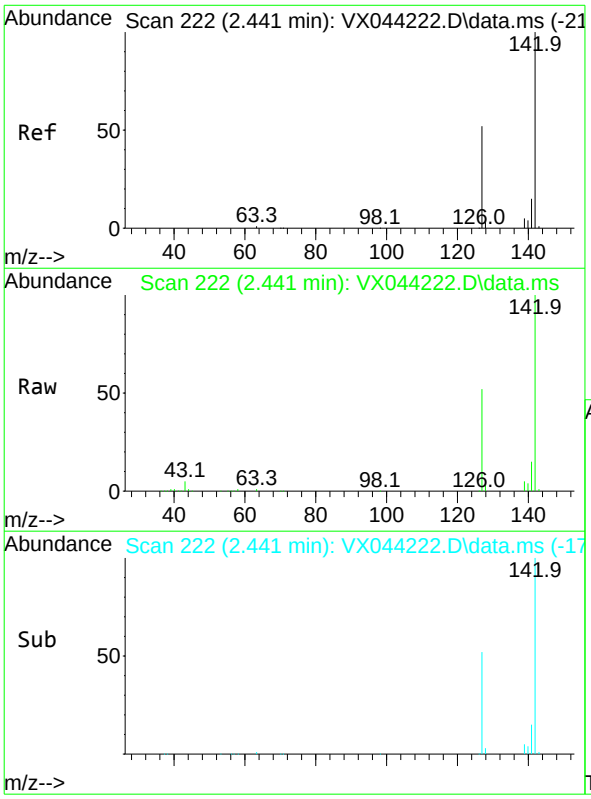
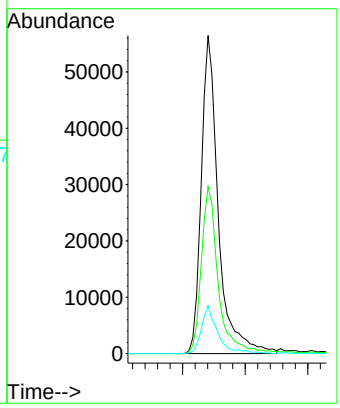
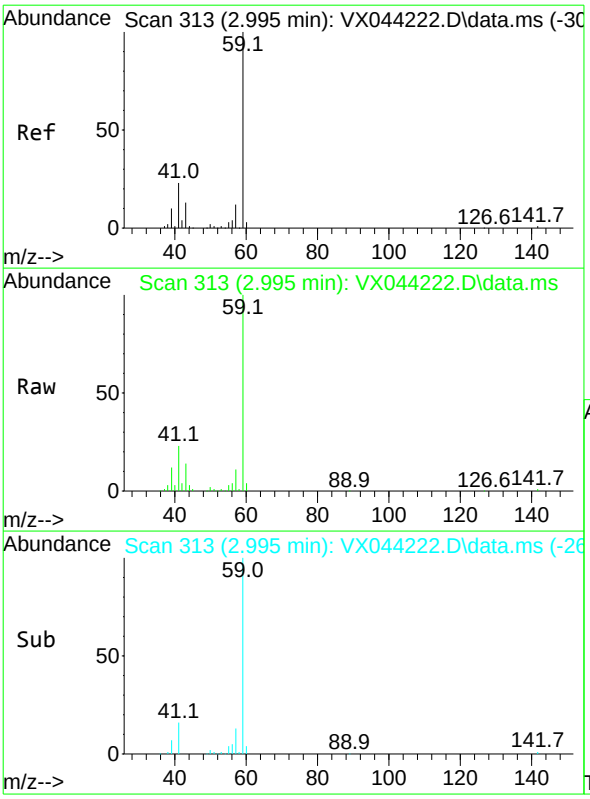


#10
Methyl Iodide
Concen: 52.678 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:142 Resp: 106509

Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.4	11.5	17.3

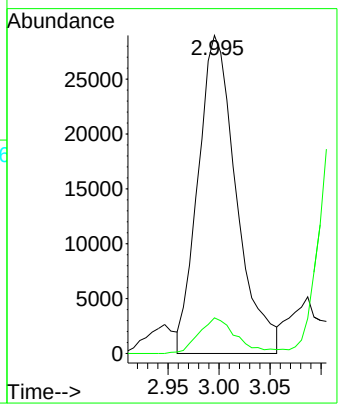




#11
Tert butyl alcohol
Concen: 244.039 ug/l m
RT: 2.995 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 59 Resp: 75690

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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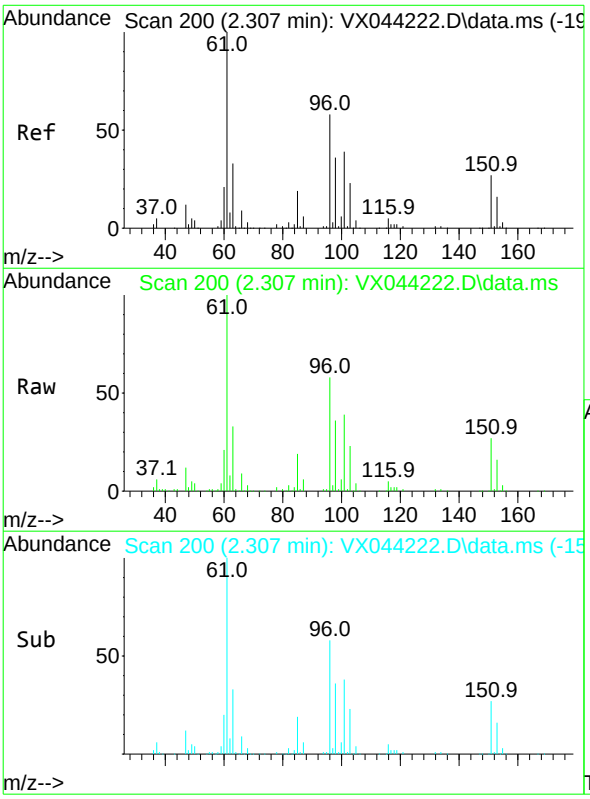
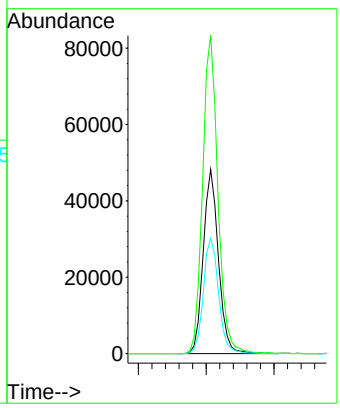
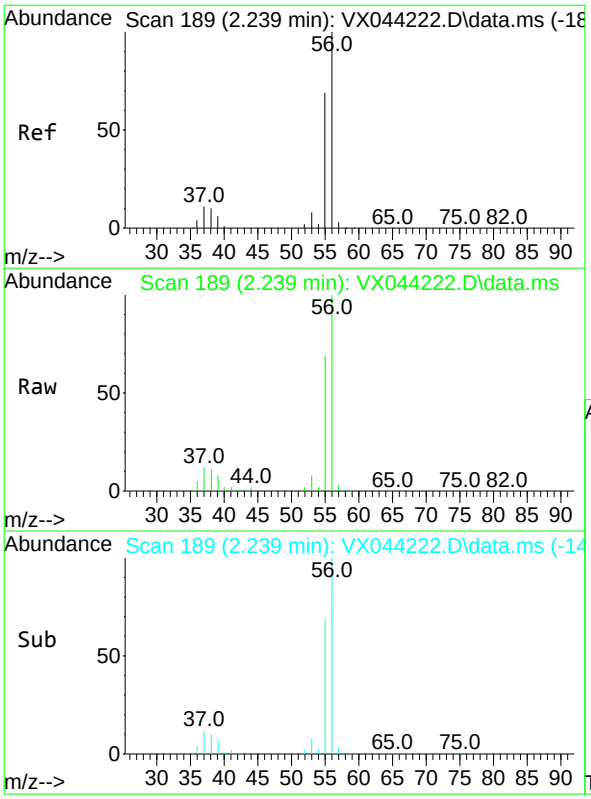


#12
1,1-Dichloroethene
Concen: 53.143 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 74884

Ion	Ratio	Lower	Upper
96	100		
61	172.5	138.0	207.0
98	62.5	50.0	75.0

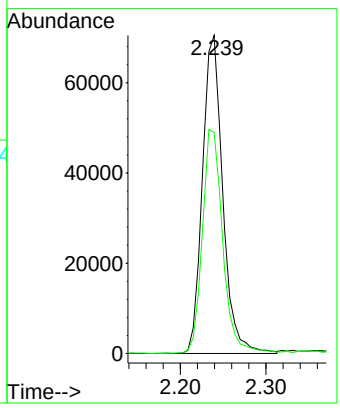




#13
Acrolein
Concen: 258.347 ug/l
RT: 2.239 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 56 Resp: 116171

Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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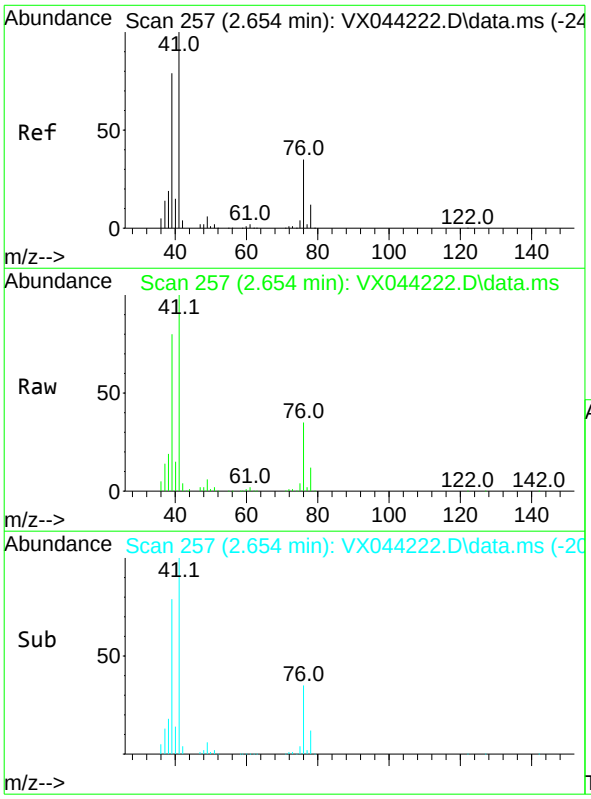
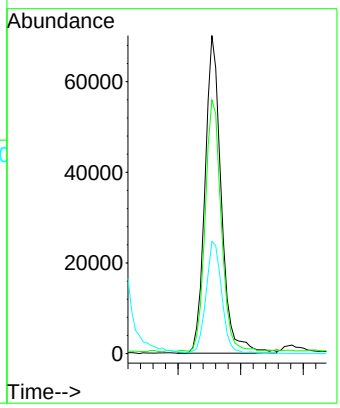
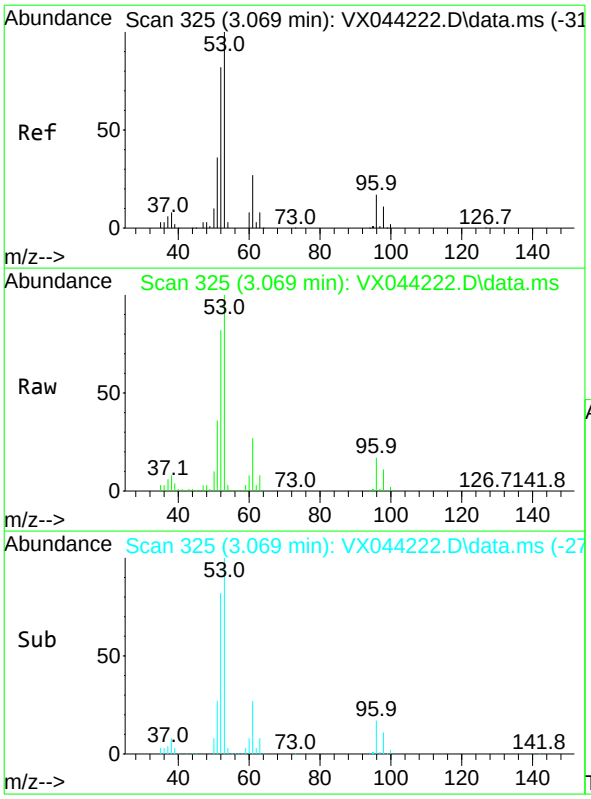


#14
Allyl chloride
Concen: 54.079 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 126925

Ion	Ratio	Lower	Upper
41	100		
39	77.4	61.9	92.9
76	34.3	27.4	41.2

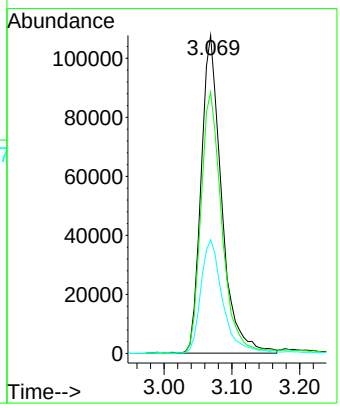




#15
Acrylonitrile
Concen: 261.859 ug/l
RT: 3.069 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 53 Resp: 225330

Ion	Ratio	Lower	Upper
53	100		
52	84.2	67.4	101.0
51	37.9	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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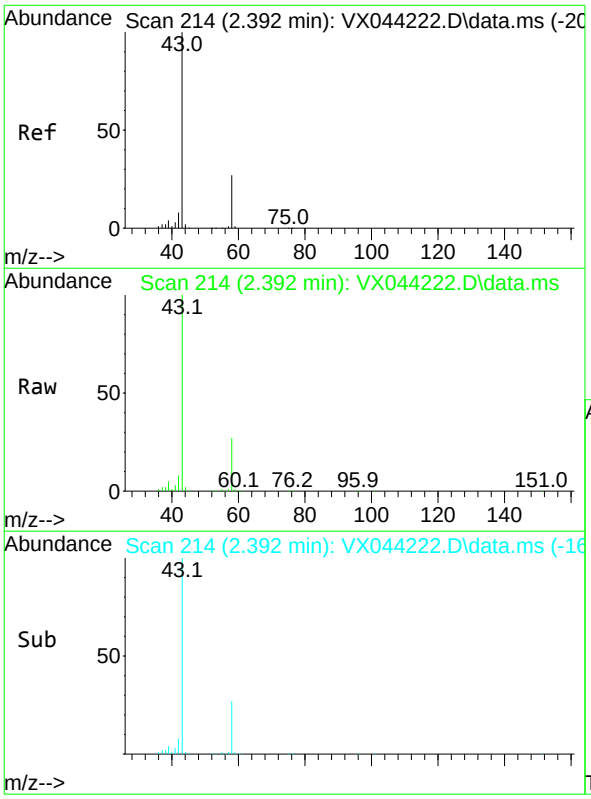
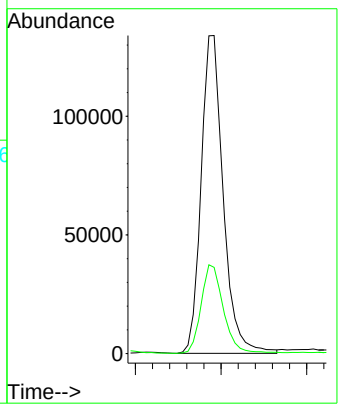
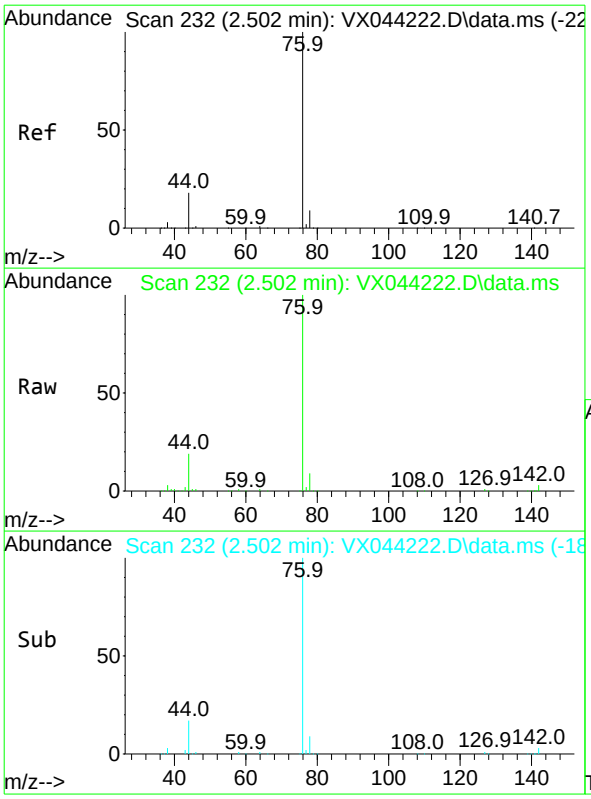


#16
Acetone
Concen: 266.704 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 239661

Ion	Ratio	Lower	Upper
43	100		
58	27.0	21.6	32.4

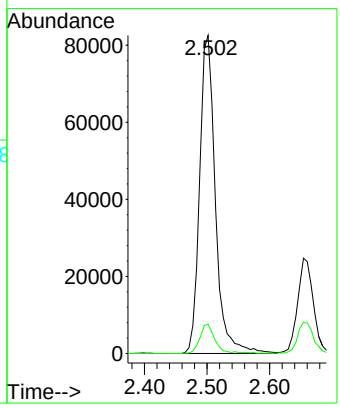




#17
Carbon Disulfide
Concen: 53.994 ug/l
RT: 2.502 min Scan# 23
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 76 Resp: 144624

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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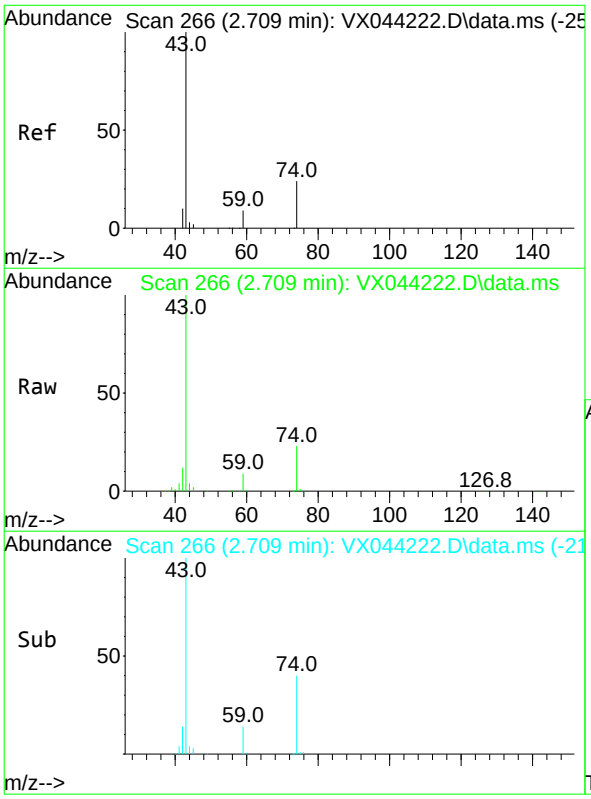
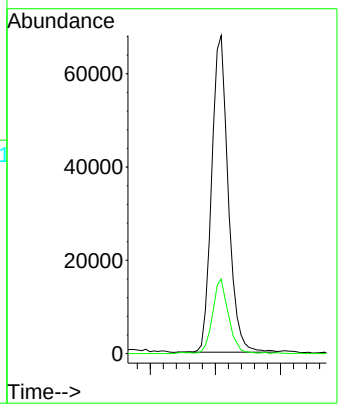
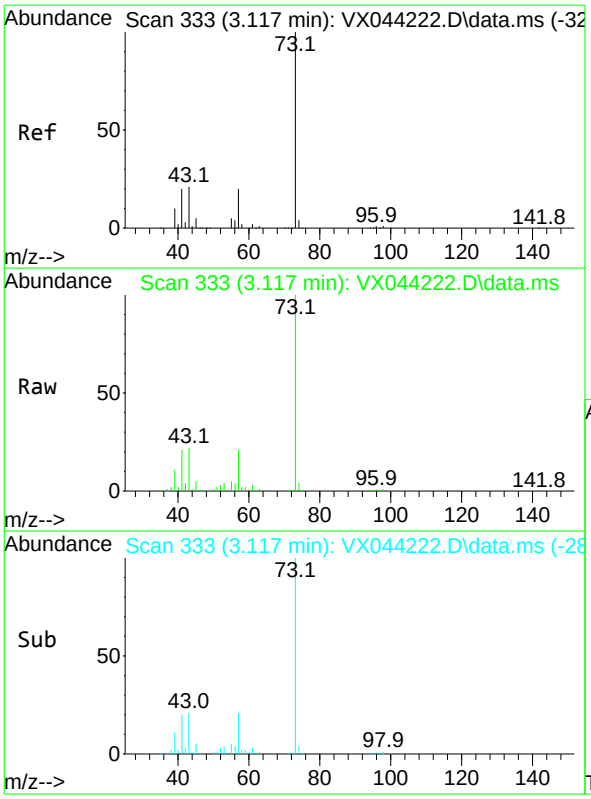


#18
Methyl Acetate
Concen: 51.710 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 119808

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.7	26.5

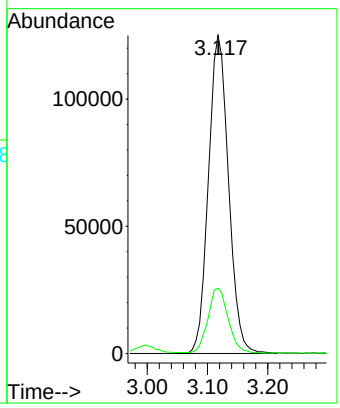




#19
Methyl tert-butyl Ether
Concen: 52.691 ug/l
RT: 3.117 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 73 Resp: 289735

Ion	Ratio	Lower	Upper
73	100		
57	20.3	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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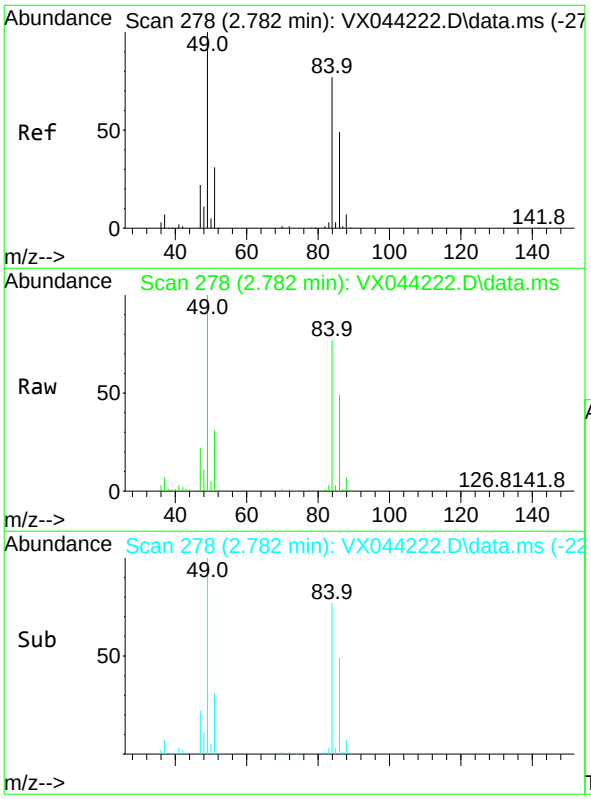
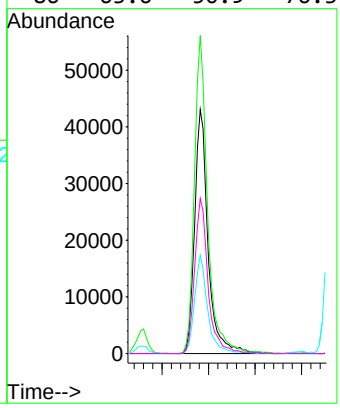
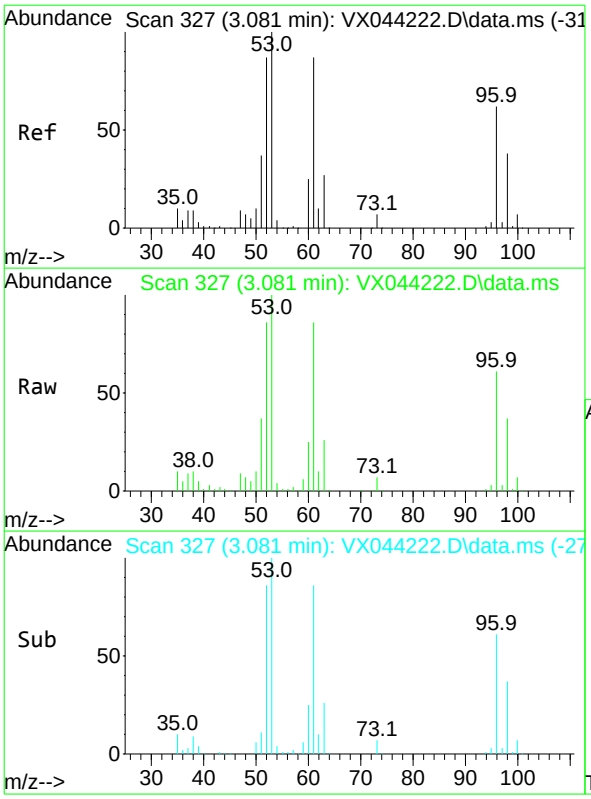


#20
Methylene Chloride
Concen: 51.305 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 84 Resp: 86593

Ion	Ratio	Lower	Upper
84	100		
49	130.3	104.2	156.4
51	40.3	32.2	48.4
86	63.6	50.9	76.3

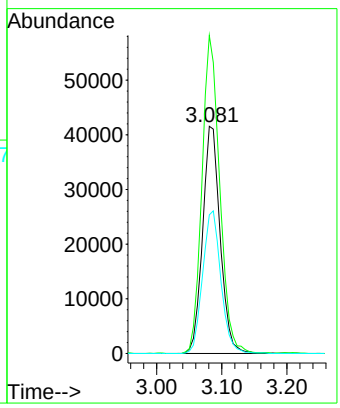




#21
trans-1,2-Dichloroethene
Concen: 51.974 ug/l
RT: 3.081 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 77834

Ion	Ratio	Lower	Upper
96	100		
61	140.0	112.0	168.0
98	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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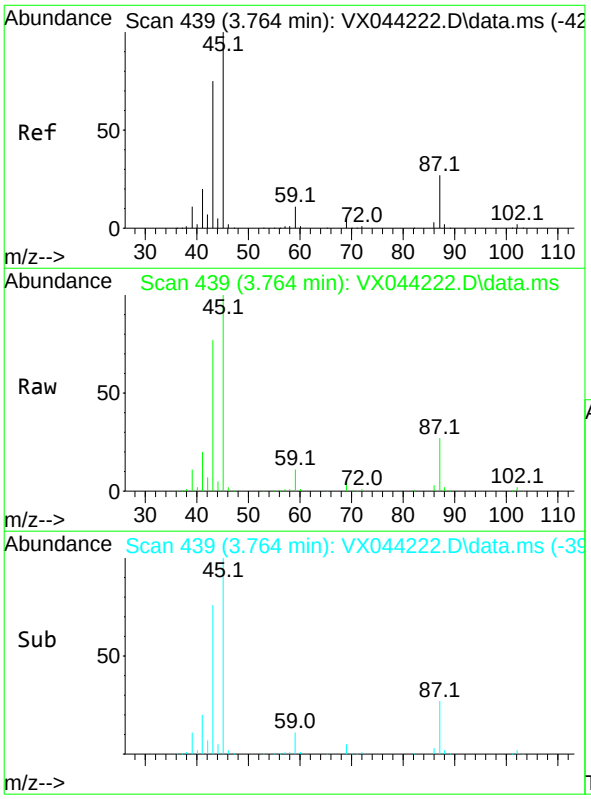
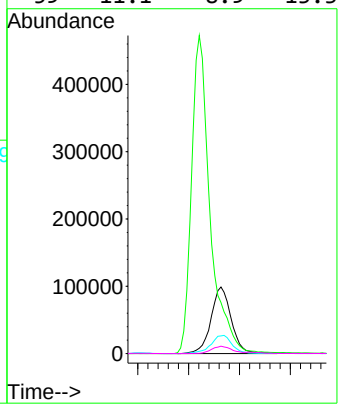
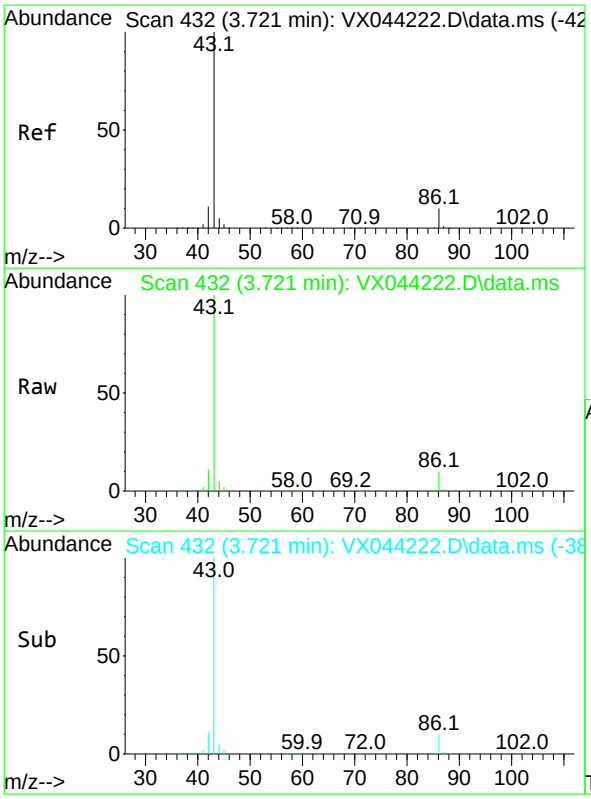


#22
Diisopropyl ether
Concen: 51.662 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 45 Resp: 273039

Ion	Ratio	Lower	Upper
45	100		
43	75.2	60.2	90.2
87	26.5	21.2	31.8
59	11.1	8.9	13.3

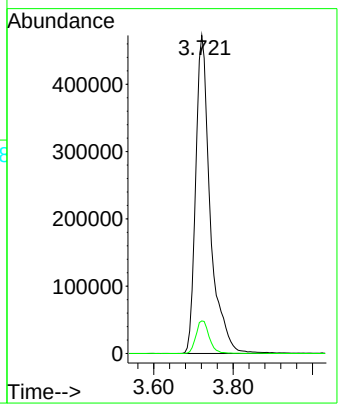




#23
Vinyl Acetate
Concen: 279.754 ug/l
RT: 3.721 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 1202044

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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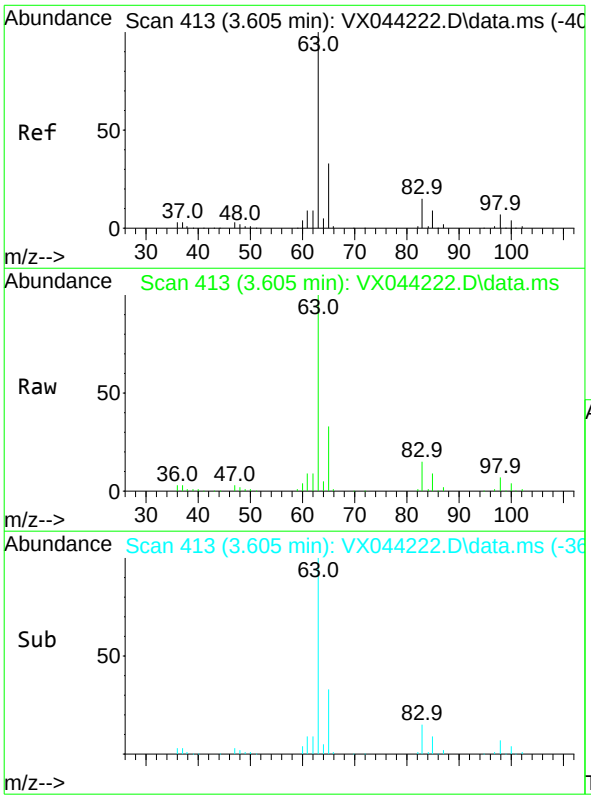
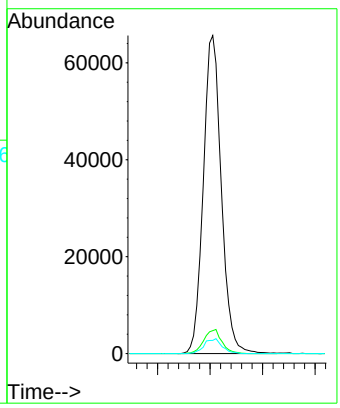
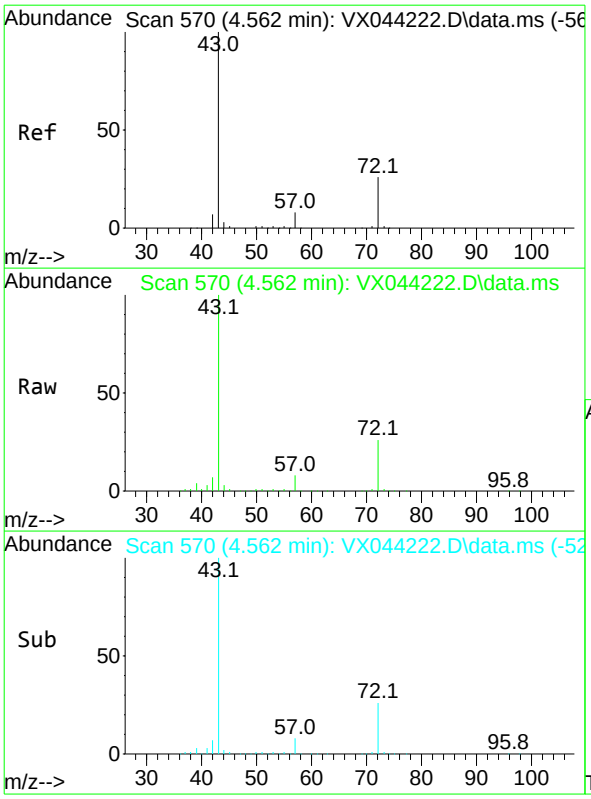


#24
1,1-Dichloroethane
Concen: 53.093 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 156412

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.2	2.1	6.3

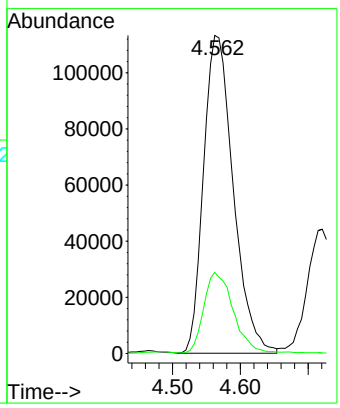




#25
2-Butanone
Concen: 269.797 ug/l
RT: 4.562 min Scan# 57
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 344663

Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
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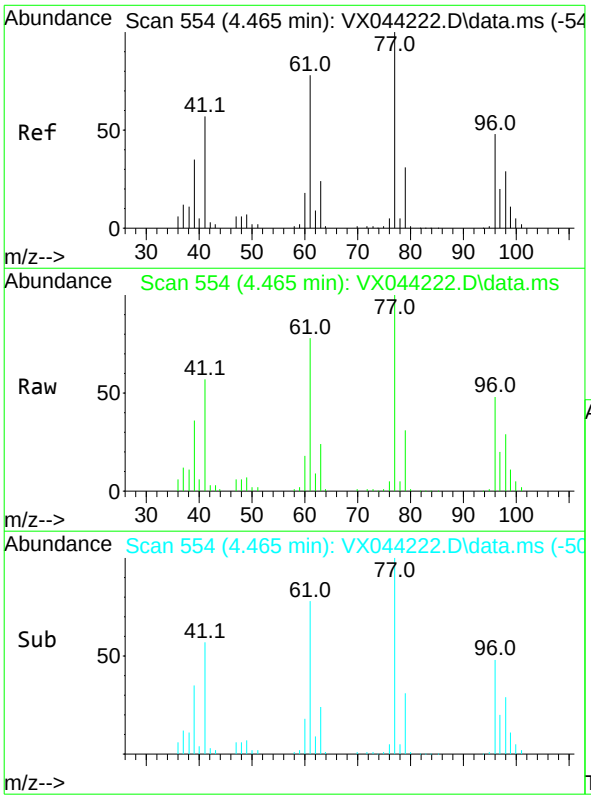
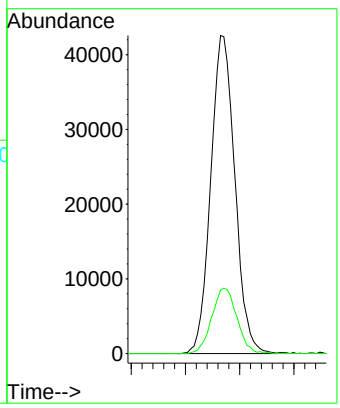
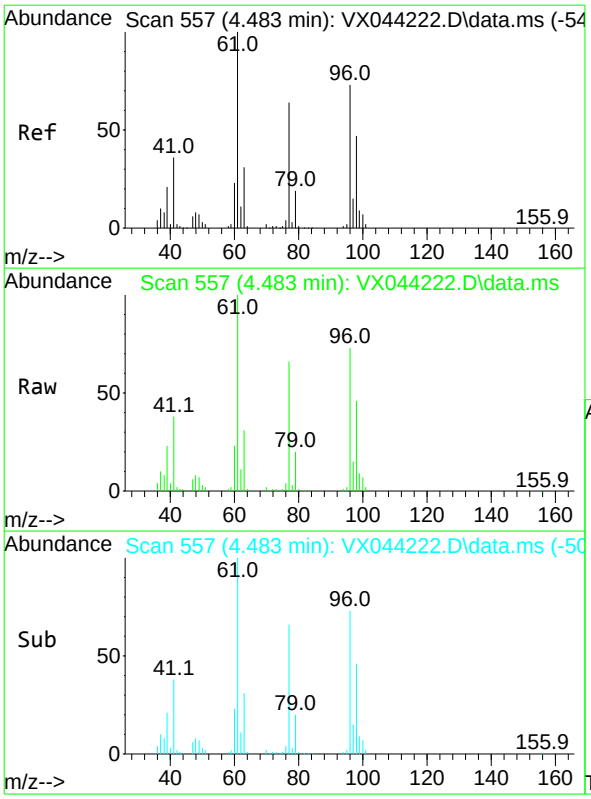


#26
2,2-Dichloropropane
Concen: 54.914 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 77 Resp: 131428

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1

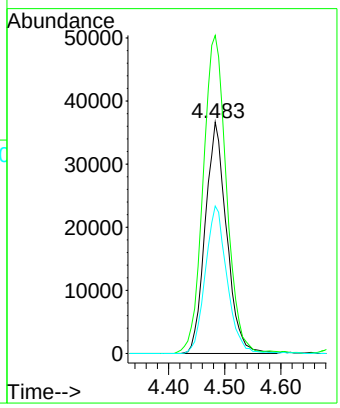




#27
cis-1,2-Dichloroethene
Concen: 51.007 ug/l
RT: 4.483 min Scan# 55
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 97013

Ion	Ratio	Lower	Upper
96	100		
61	149.5	0.0	299.0
98	64.5	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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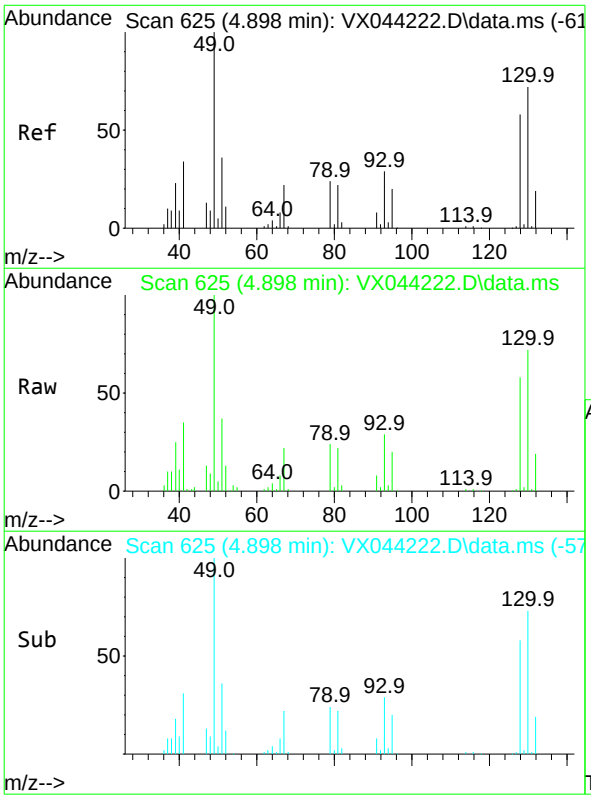
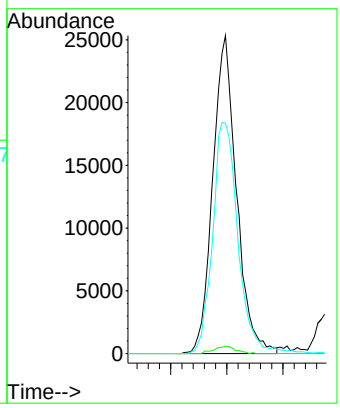
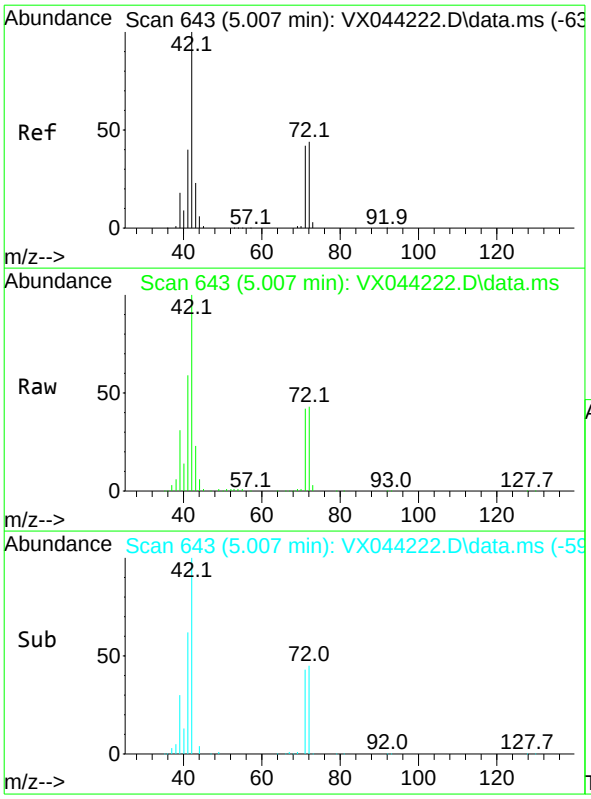


#28
Bromochloromethane
Concen: 51.555 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 49 Resp: 74477

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.6	62.1	93.1

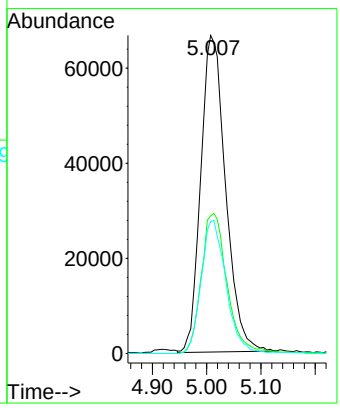




#29
Tetrahydrofuran
Concen: 258.669 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 42 Resp: 212103

Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.0	55.6
71	42.0	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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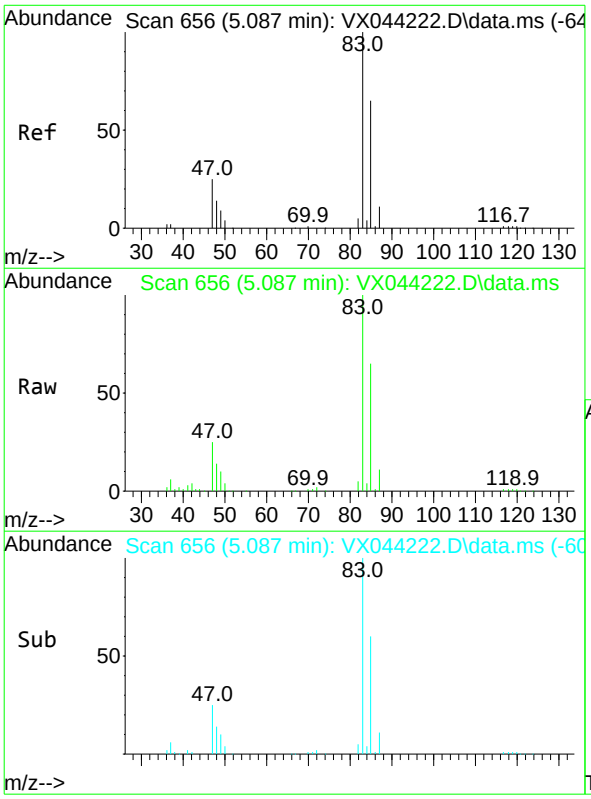
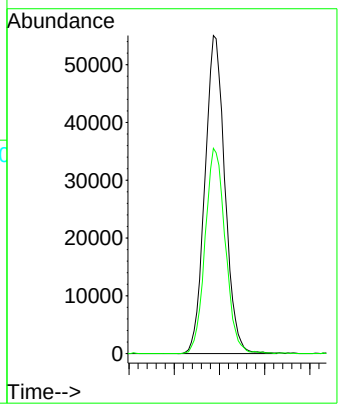
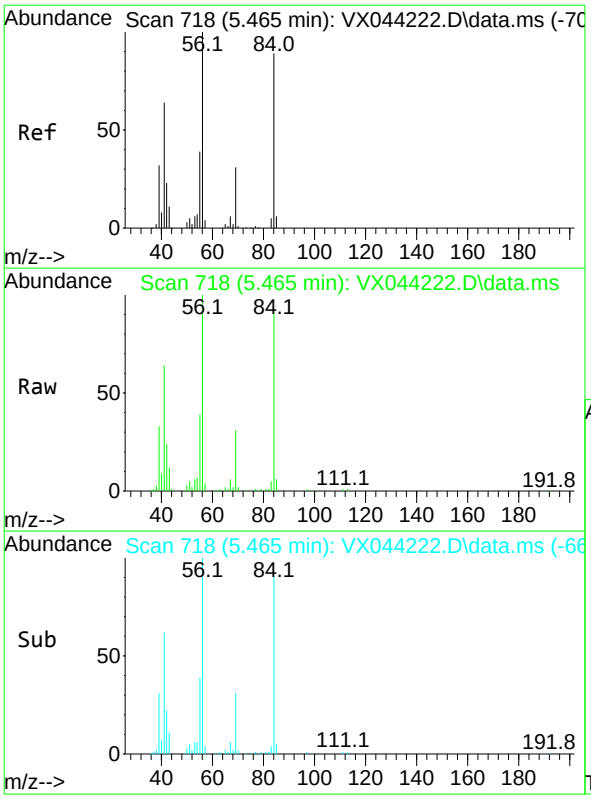


#30
Chloroform
Concen: 51.017 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 168864

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.6	77.4

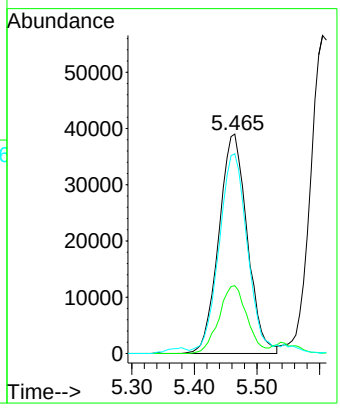




#31
Cyclohexane
Concen: 51.637 ug/l
RT: 5.465 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 56 Resp: 122841

Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.7	37.1
84	88.8	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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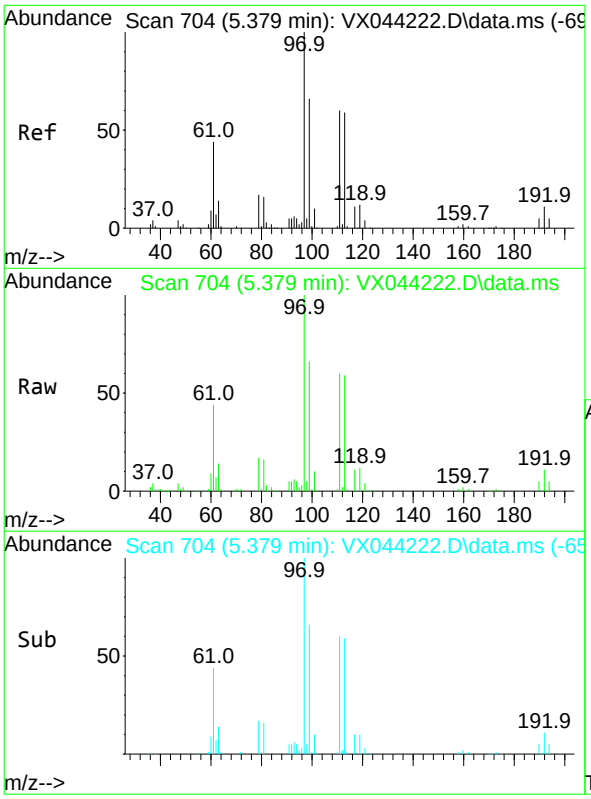
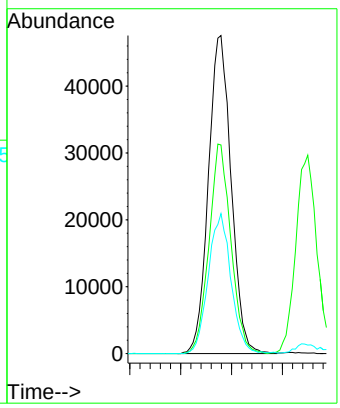
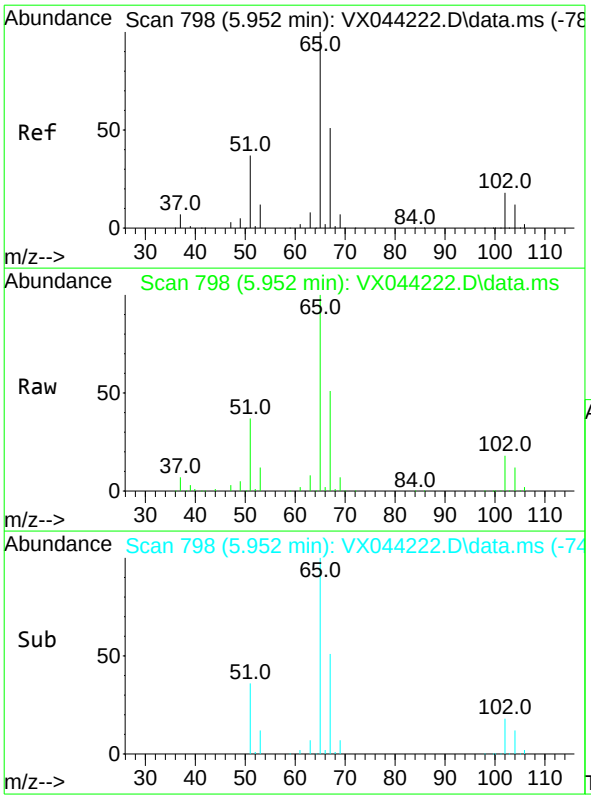


#32
1,1,1-Trichloroethane
Concen: 53.806 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 97 Resp: 147834

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.8	76.2
61	44.0	35.2	52.8

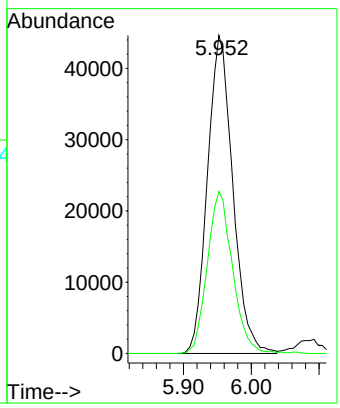




#33
1,2-Dichloroethane-d4
Concen: 52.544 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 65 Resp: 115815

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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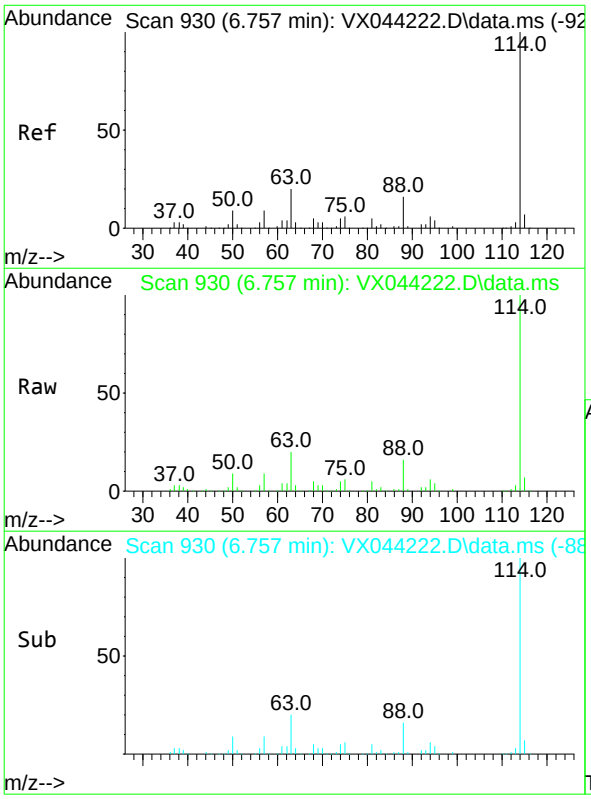
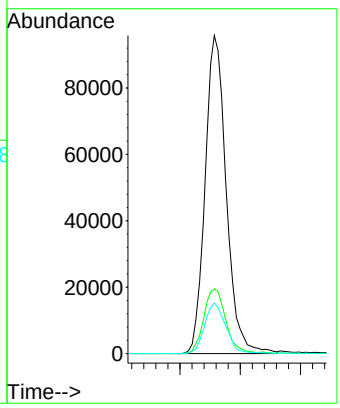
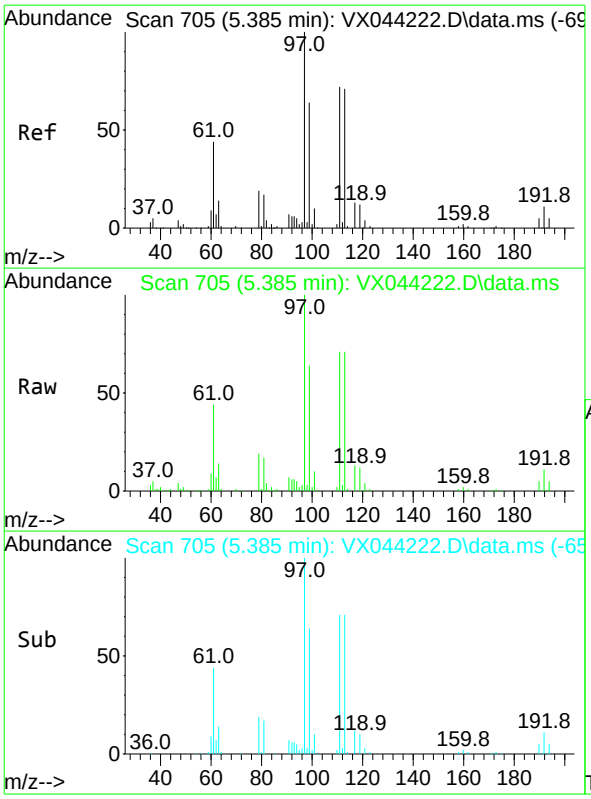


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:114 Resp: 233488

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.6
88	15.9	0.0	31.8

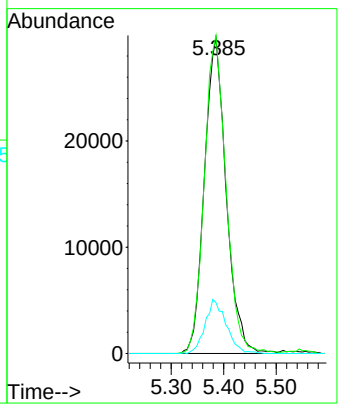




#35
Dibromofluoromethane
Concen: 52.968 ug/l
RT: 5.385 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:113 Resp: 85656

Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.4	120.6
192	16.6	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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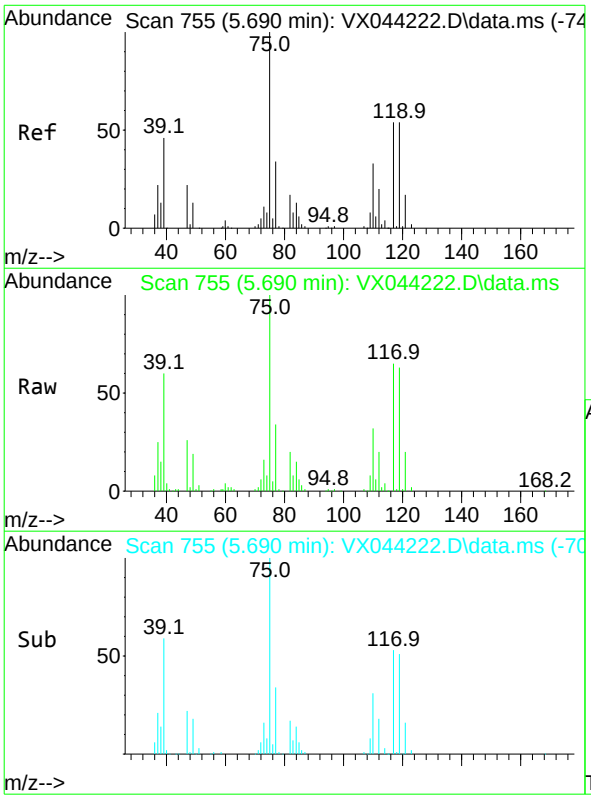
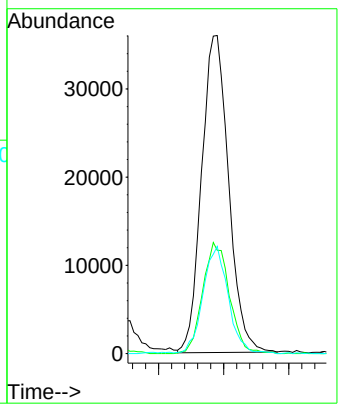
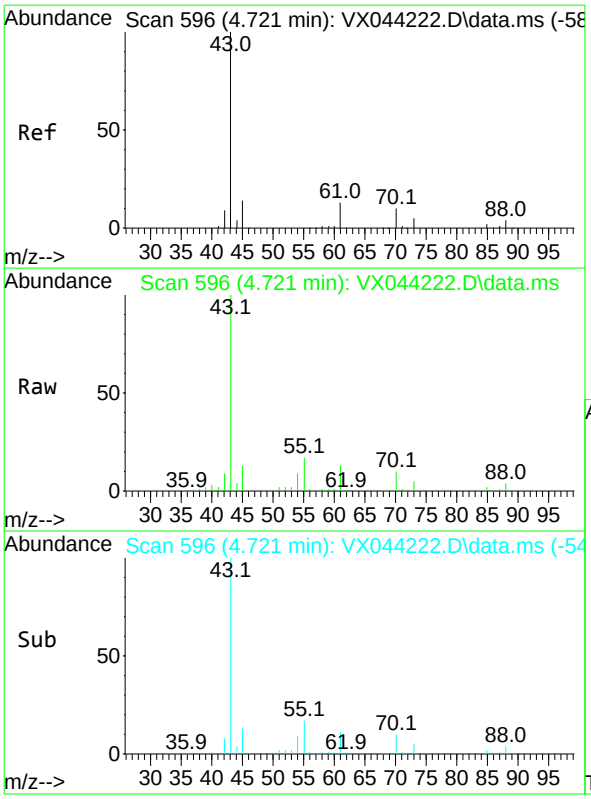


#36
1,1-Dichloropropene
Concen: 49.638 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 103760

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.3	51.7
77	31.7	25.4	38.0

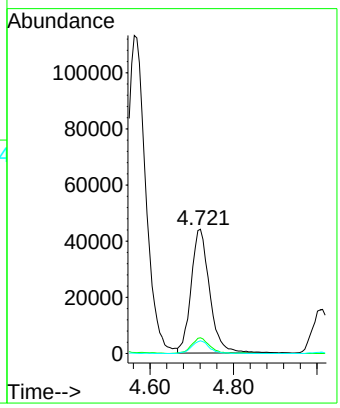




#37
Ethyl Acetate
Concen: 52.537 ug/l
RT: 4.721 min Scan# 59
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 135753

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.6	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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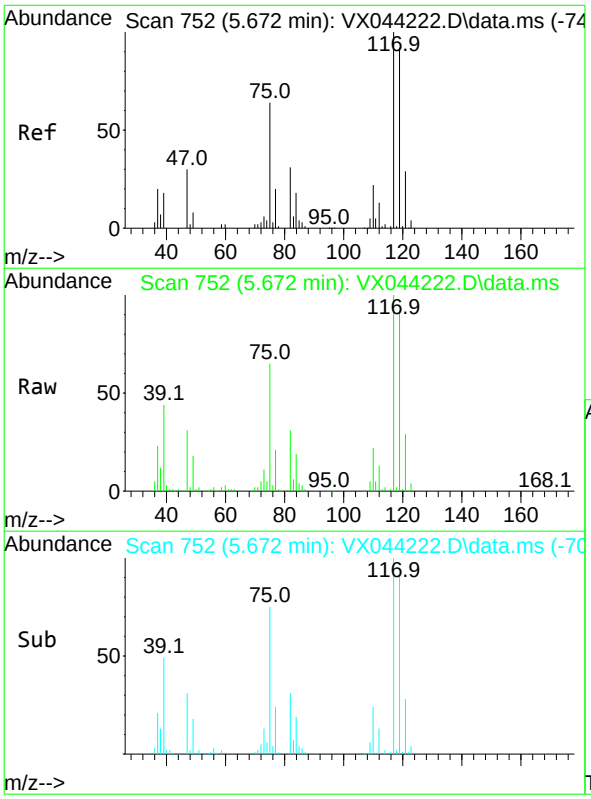
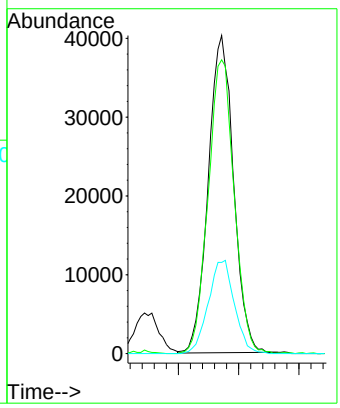
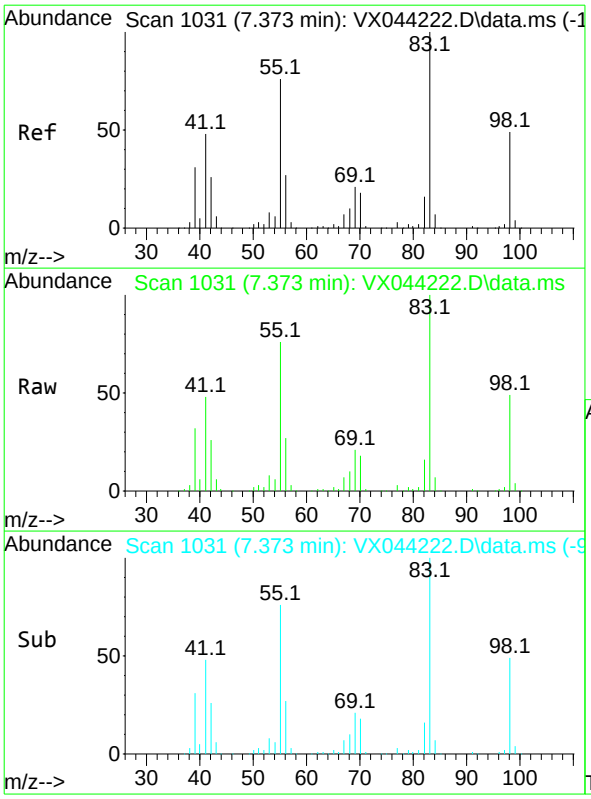


#38
Carbon Tetrachloride
Concen: 52.023 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 117076

Ion	Ratio	Lower	Upper
117	100		
119	92.8	74.2	111.4
121	28.8	23.0	34.6

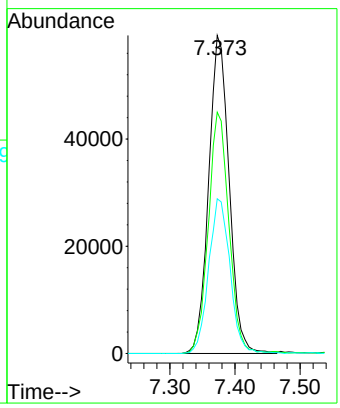




#39
Methylcyclohexane
Concen: 51.901 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 129697

Ion	Ratio	Lower	Upper
83	100		
55	75.9	60.7	91.1
98	48.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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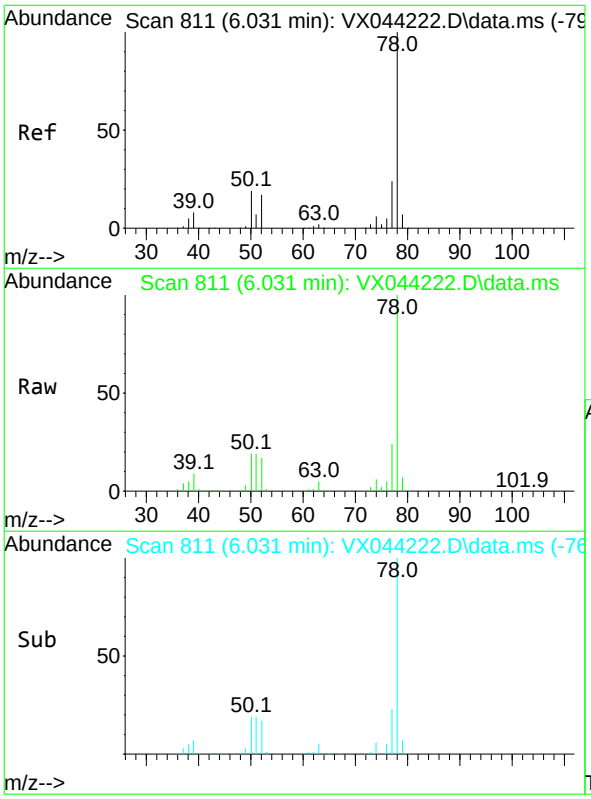
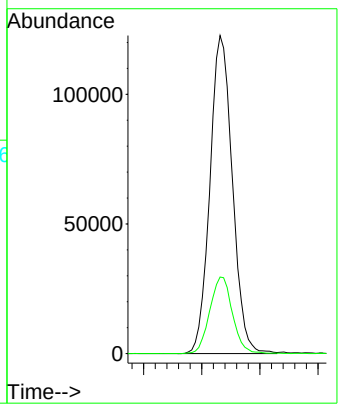
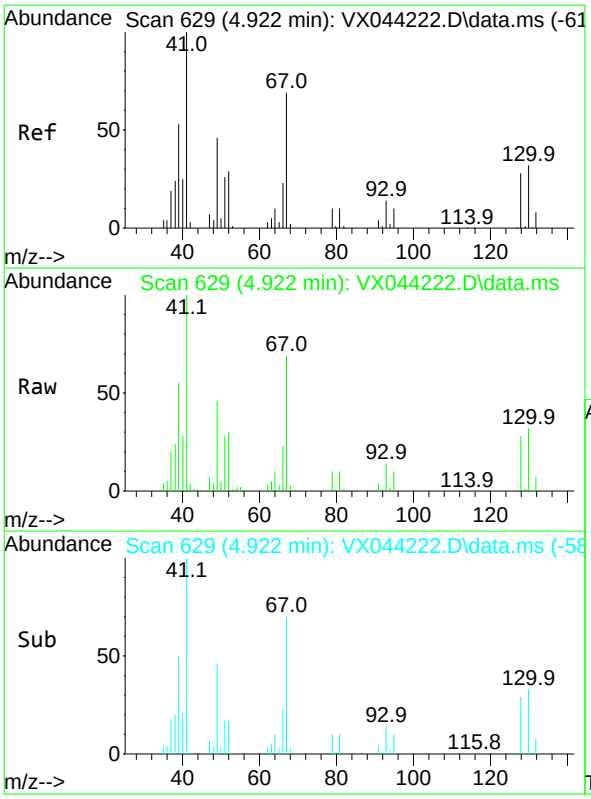


#40
Benzene
Concen: 51.863 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 78 Resp: 329154

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9

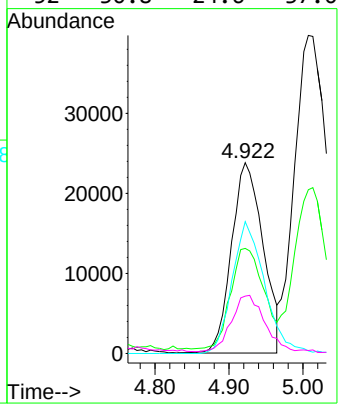




#41
Methacrylonitrile
Concen: 51.329 ug/l
RT: 4.922 min Scan# 62
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 70427

Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.2	66.4
67	71.5	57.2	85.8
52	30.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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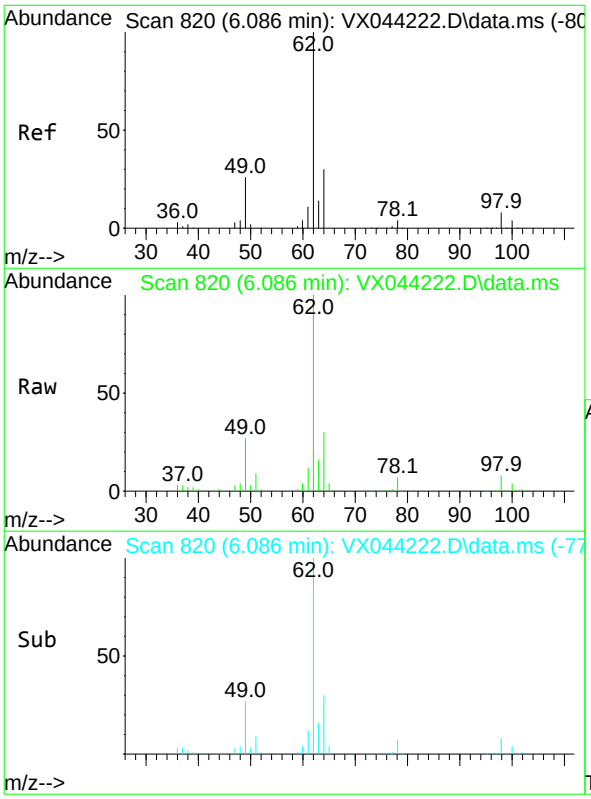
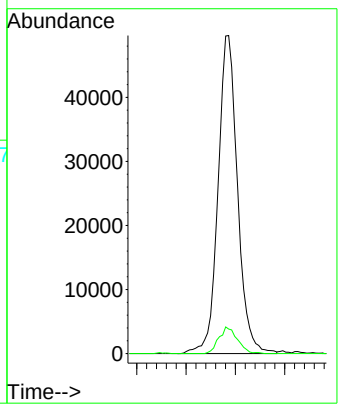
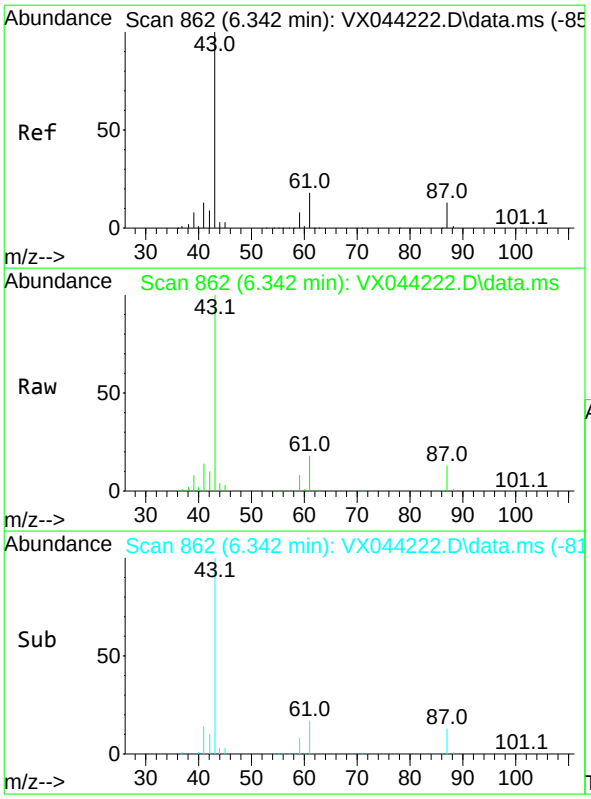


#42
1,2-Dichloroethane
Concen: 52.138 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 136309

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8

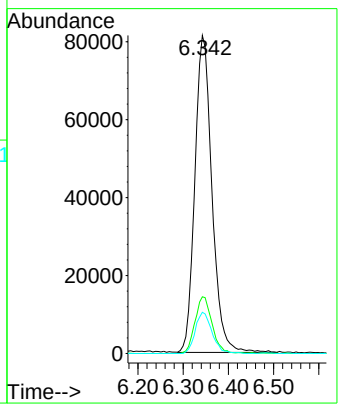




#43
Isopropyl Acetate
Concen: 52.961 ug/l
RT: 6.342 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 213891

Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.7	10.2	15.2



Instrument :
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ClientSampleId :
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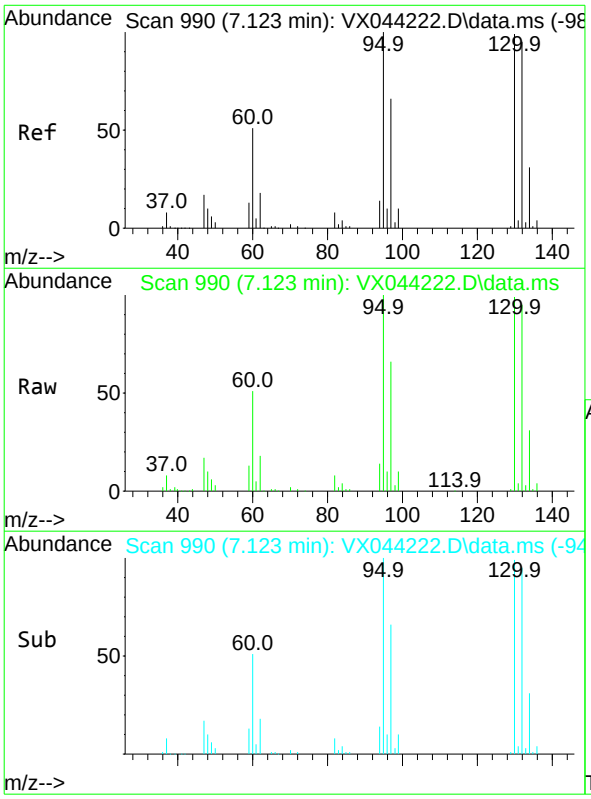
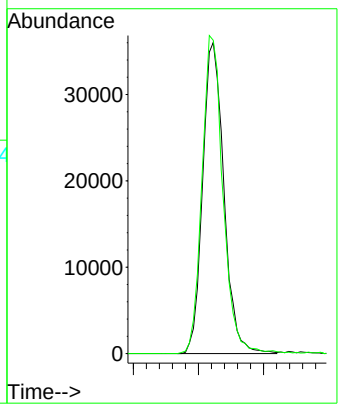
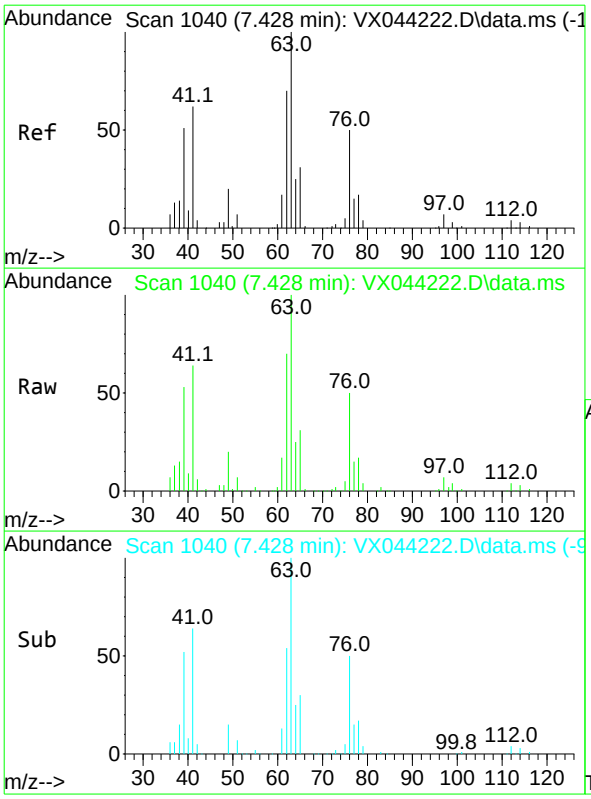


#44
Trichloroethene
Concen: 51.521 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:130 Resp: 81542

Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	201.4

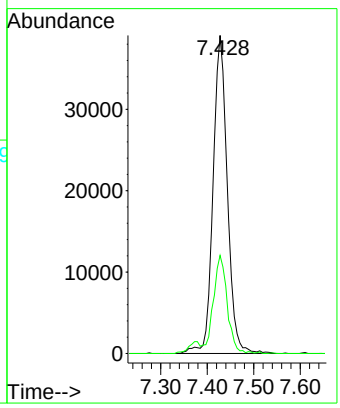




#45
1,2-Dichloropropane
Concen: 51.420 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 83376

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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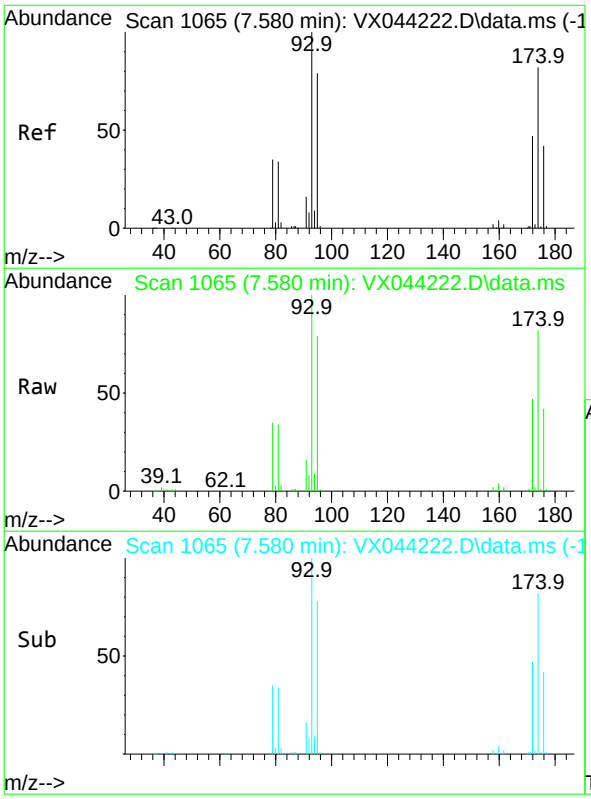
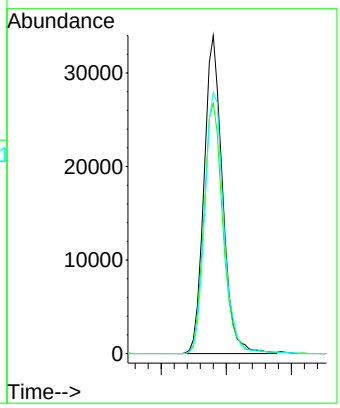
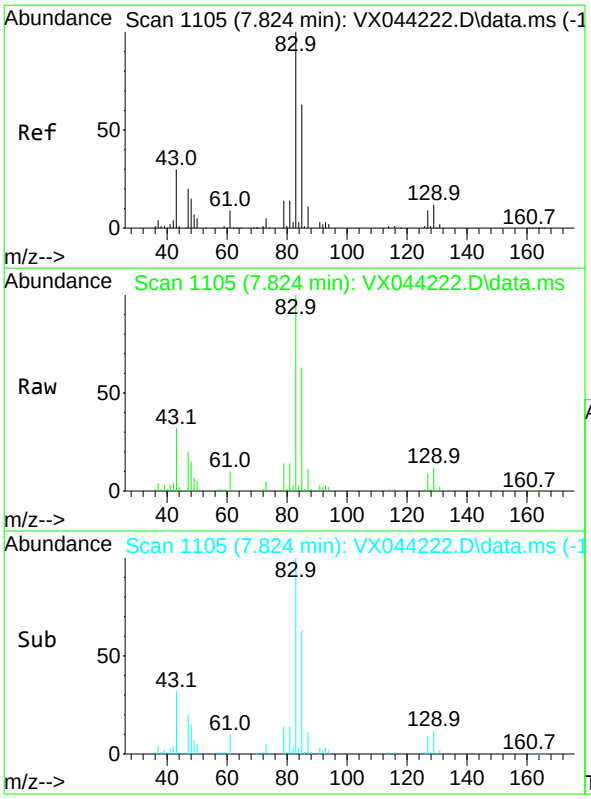


#46
Dibromomethane
Concen: 53.092 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 93 Resp: 66786

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.4	98.2
174	84.9	67.9	101.9

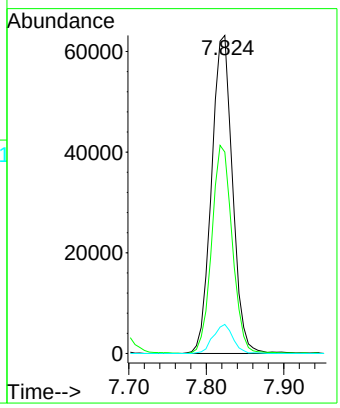




#47
Bromodichloromethane
Concen: 54.607 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 118634

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	9.1	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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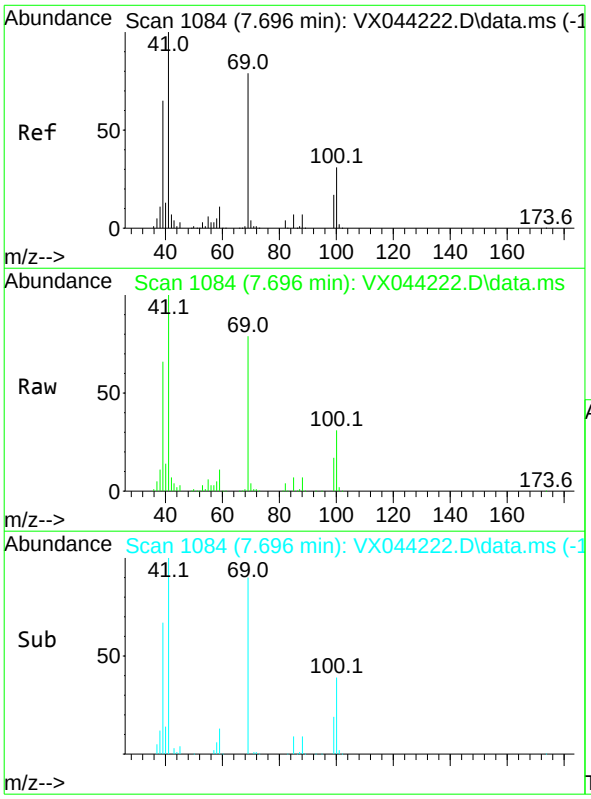
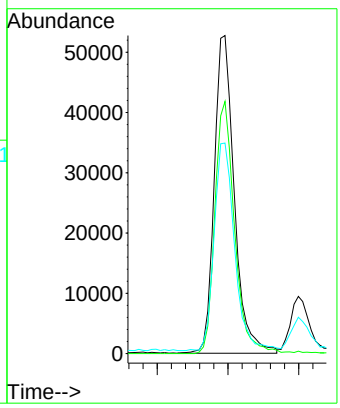
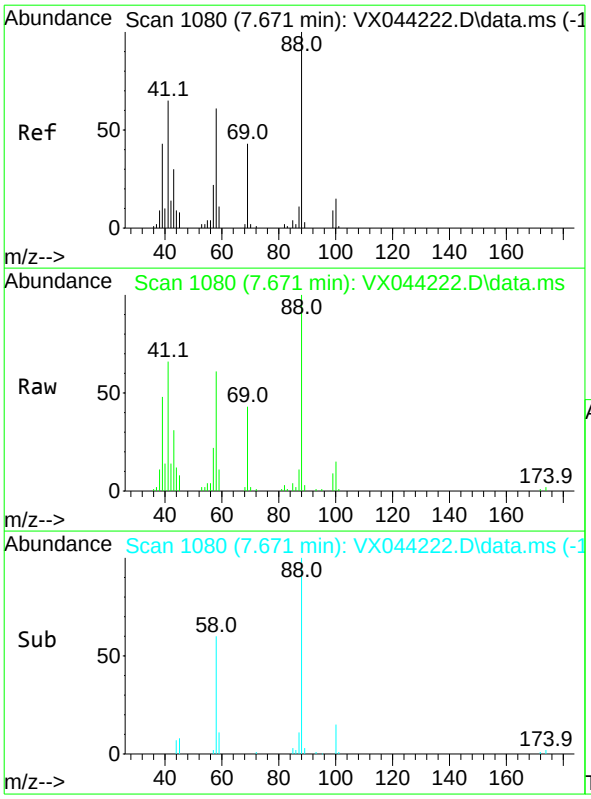


#48
Methyl methacrylate
Concen: 52.909 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 103726

Ion	Ratio	Lower	Upper
41	100		
69	78.0	62.4	93.6
39	66.6	53.3	79.9

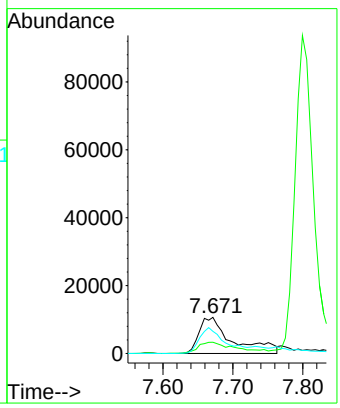




#49
1,4-Dioxane
Concen: 1052.498 ug/l m
RT: 7.671 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 88 Resp: 35263

Ion	Ratio	Lower	Upper
88	100		
43	36.2	27.1	40.7
58	54.7	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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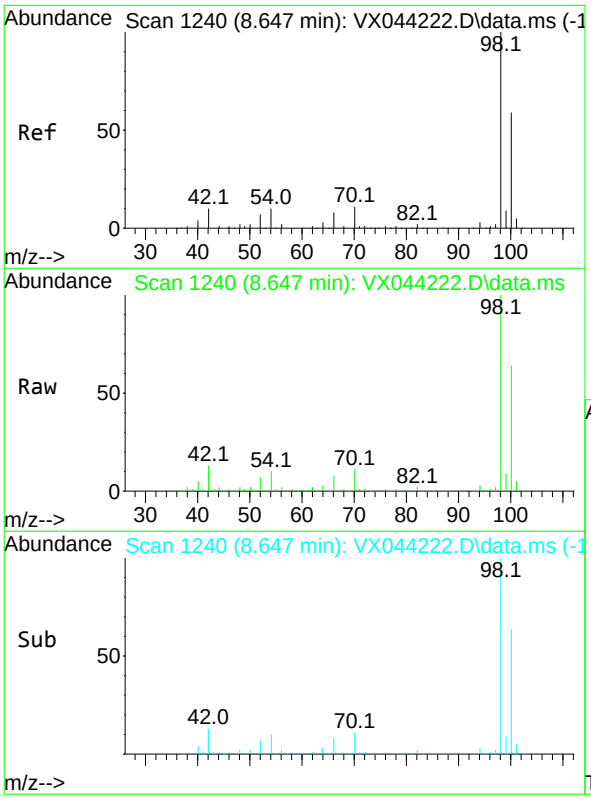
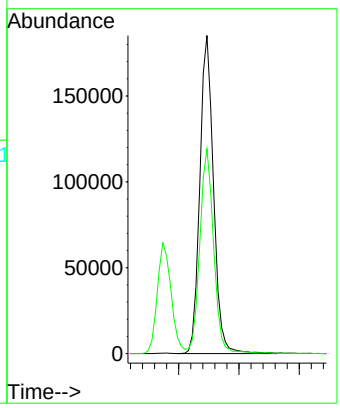
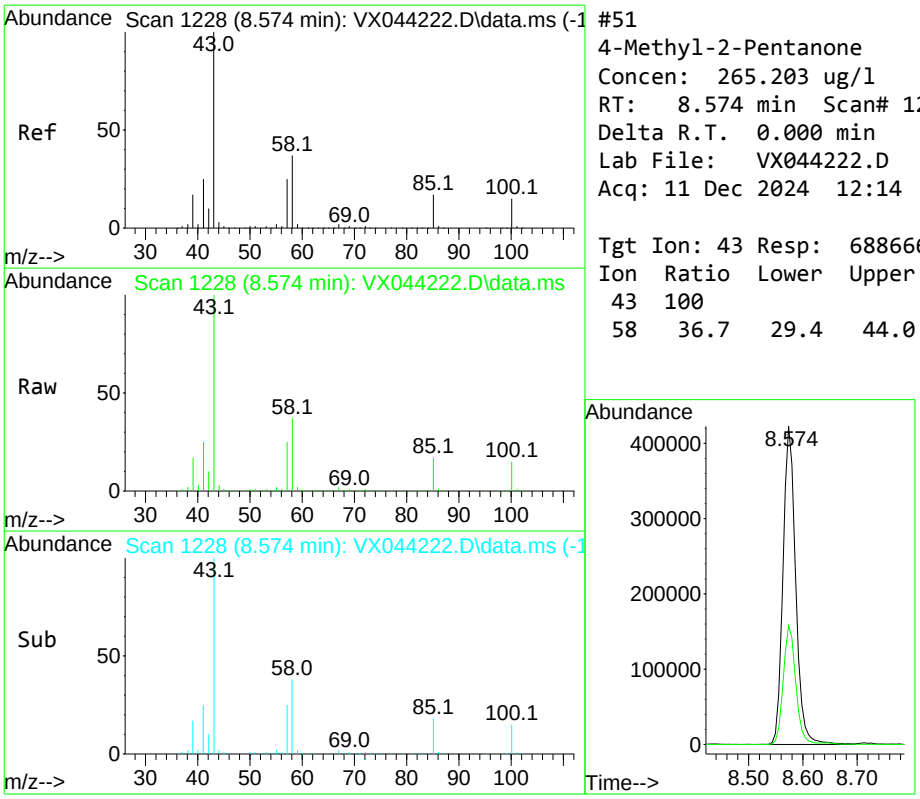


#50
Toluene-d8
Concen: 53.559 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 98 Resp: 292199

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 265.203 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 688666

Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.4	44.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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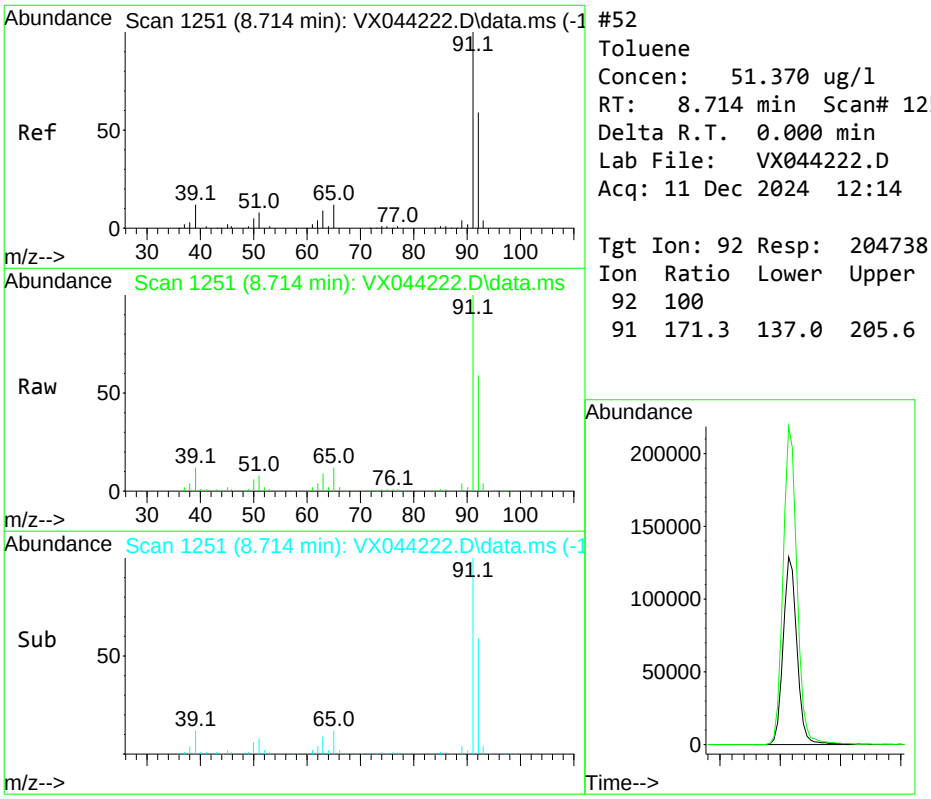
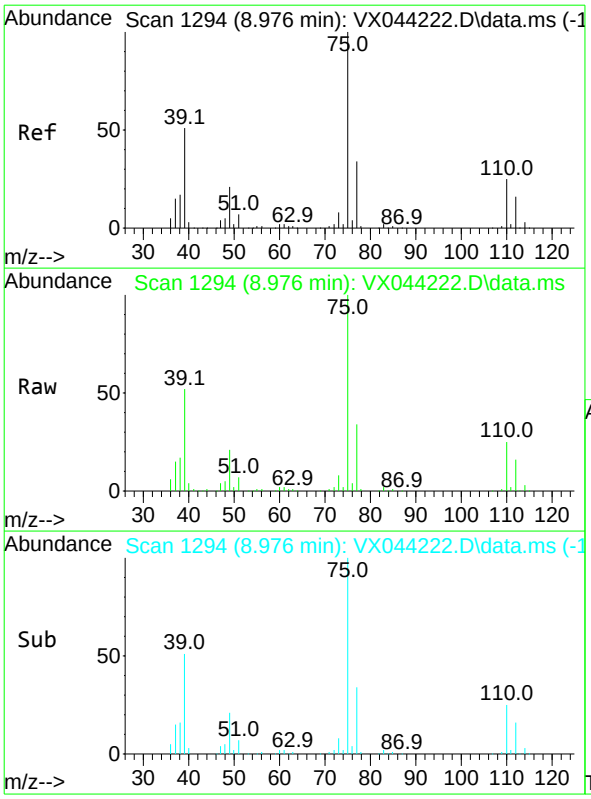


#52
Toluene
Concen: 51.370 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 92 Resp: 204738

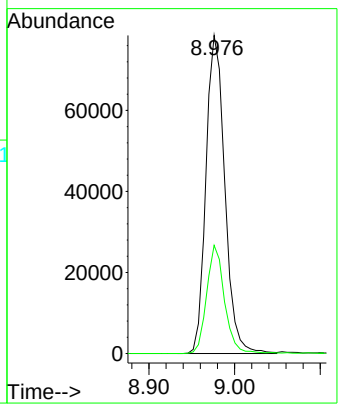
Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6



#53
t-1,3-Dichloropropene
Concen: 51.362 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 120007

Ion	Ratio	Lower	Upper
75	100		
77	34.0	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
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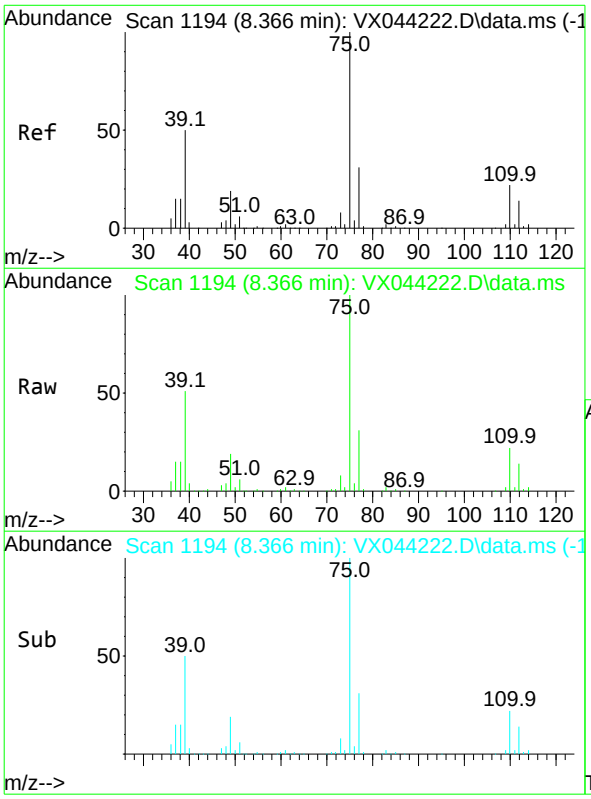
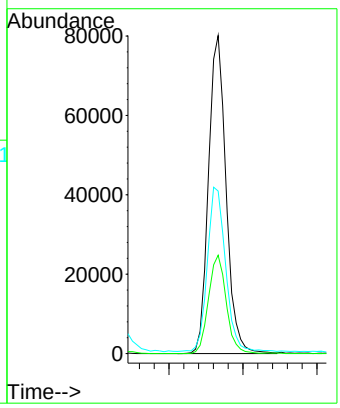
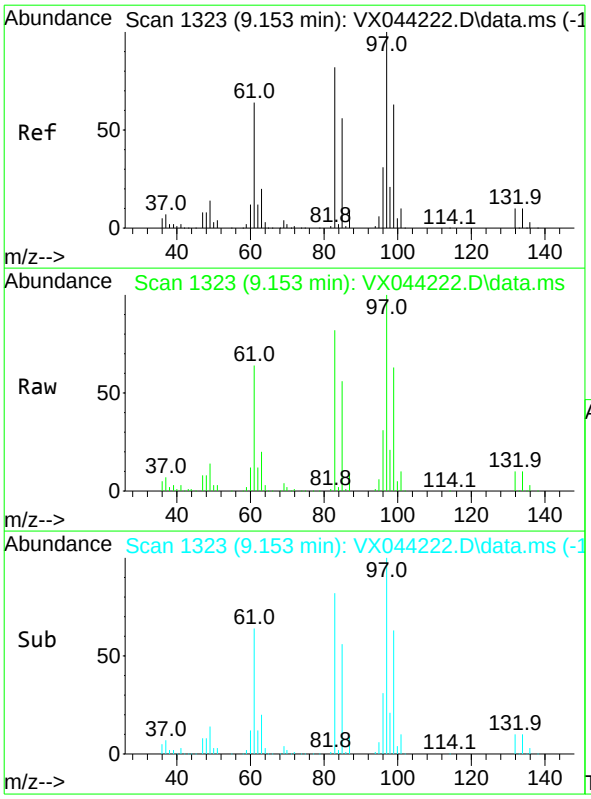


#54
cis-1,3-Dichloropropene
Concen: 55.923 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 132286

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.4	40.3	60.5

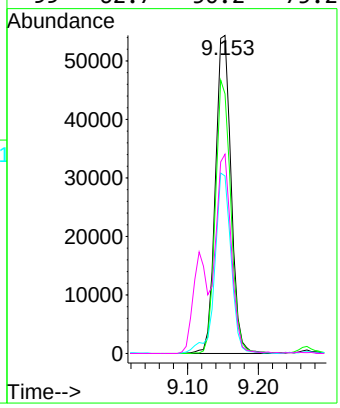




#55
1,1,2-Trichloroethane
Concen: 52.729 ug/l
RT: 9.153 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 97 Resp: 83488

Ion	Ratio	Lower	Upper
97	100		
83	81.6	65.3	97.9
85	55.8	44.6	67.0
99	62.7	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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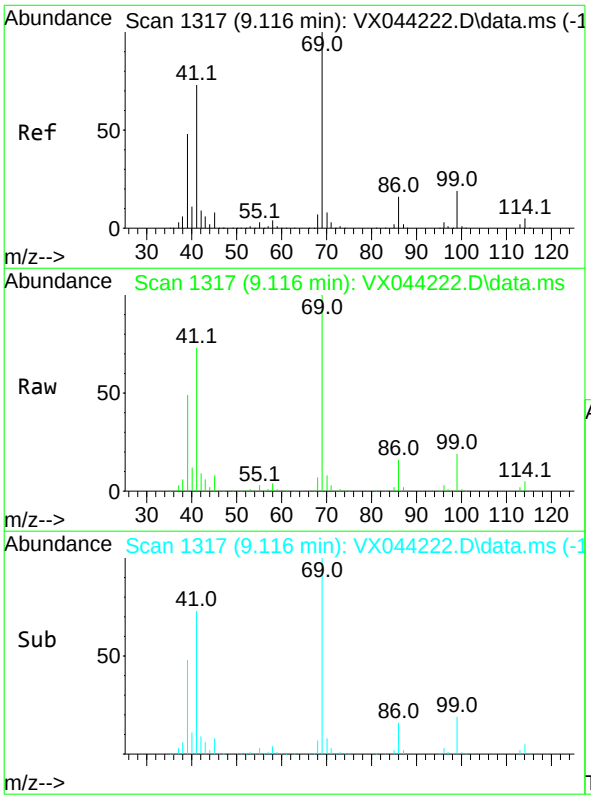
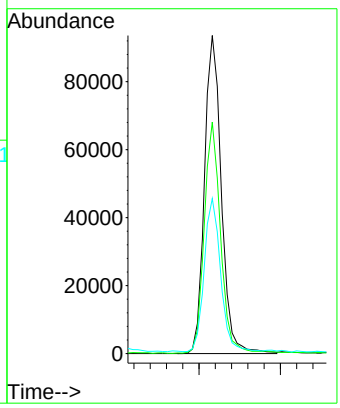
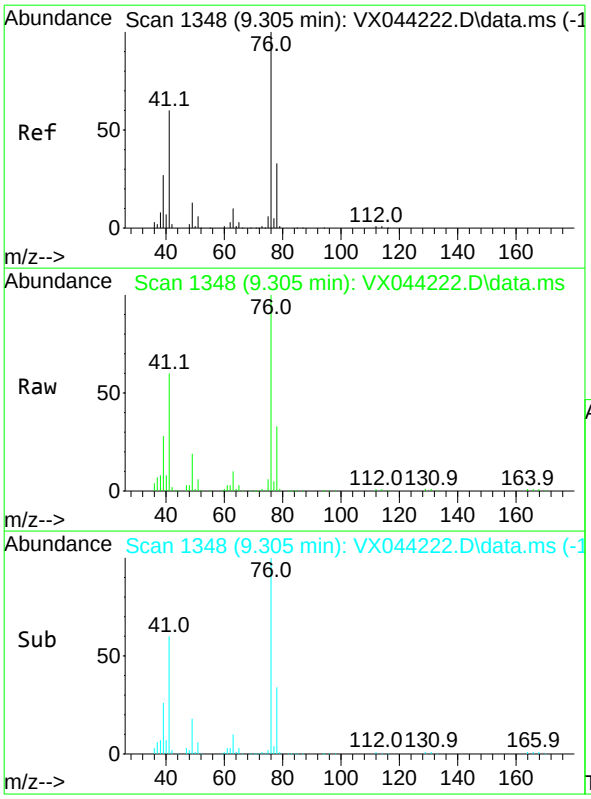


#56
Ethyl methacrylate
Concen: 53.917 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 69 Resp: 134770

Ion	Ratio	Lower	Upper
69	100		
41	70.8	56.6	85.0
39	46.7	37.4	56.0

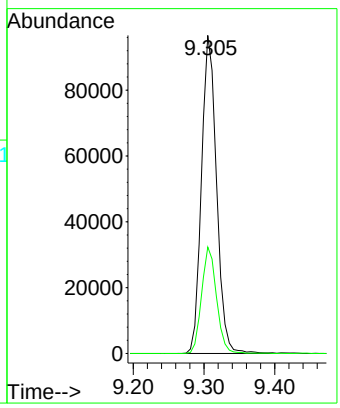




#57
1,3-Dichloropropane
Concen: 51.904 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 76 Resp: 143044

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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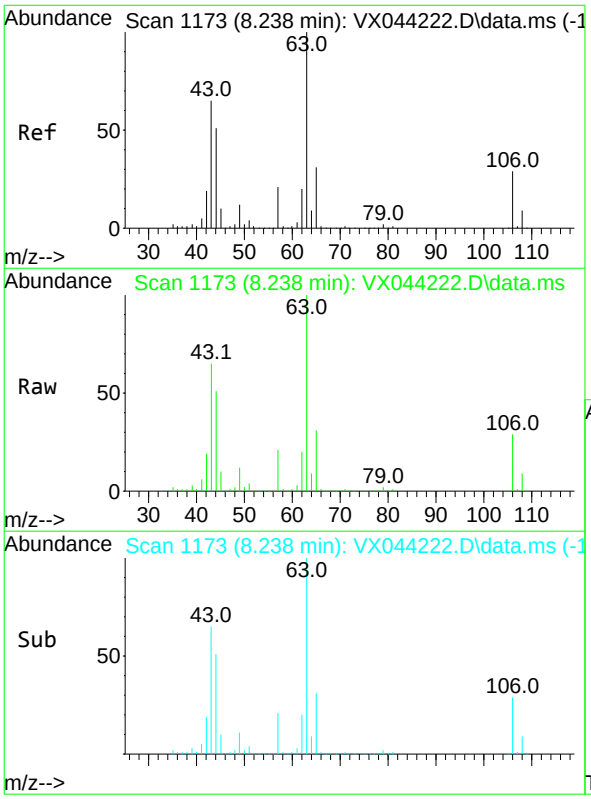
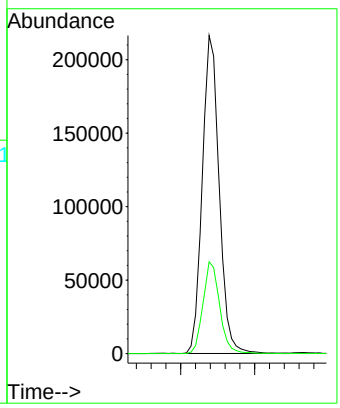
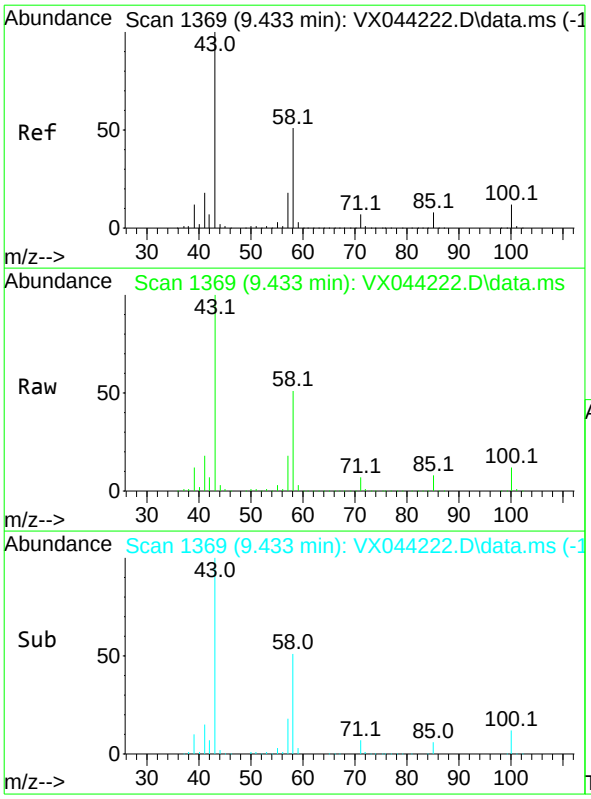


#58
2-Chloroethyl Vinyl ether
Concen: 271.745 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 342592

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2

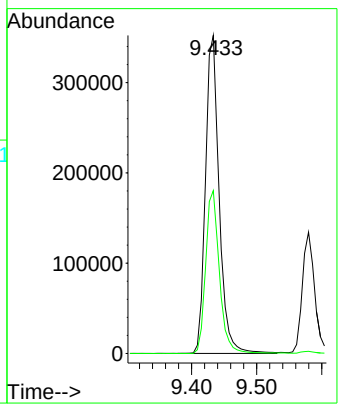




#59
2-Hexanone
Concen: 272.881 ug/l
RT: 9.433 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 512906

Ion	Ratio	Lower	Upper
43	100		
58	51.3	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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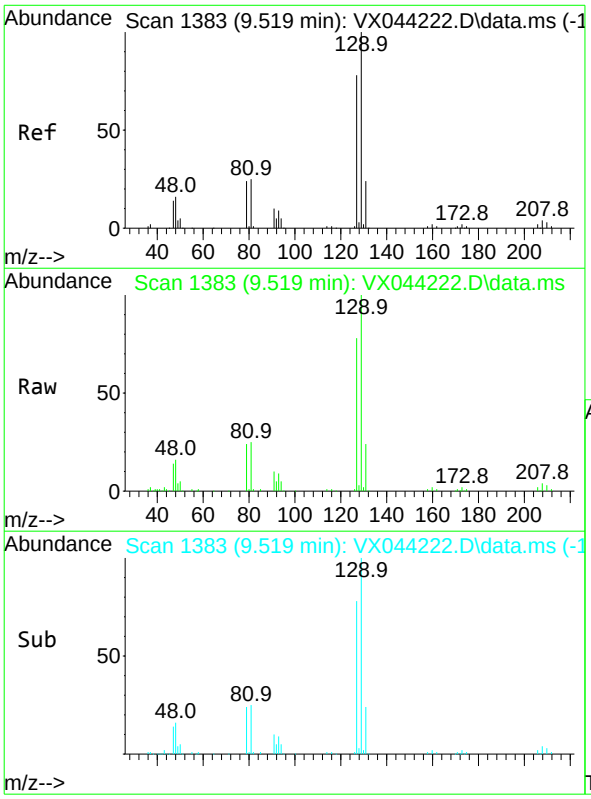
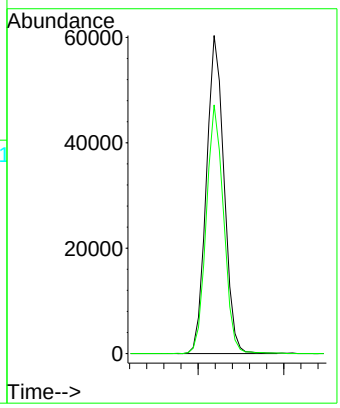
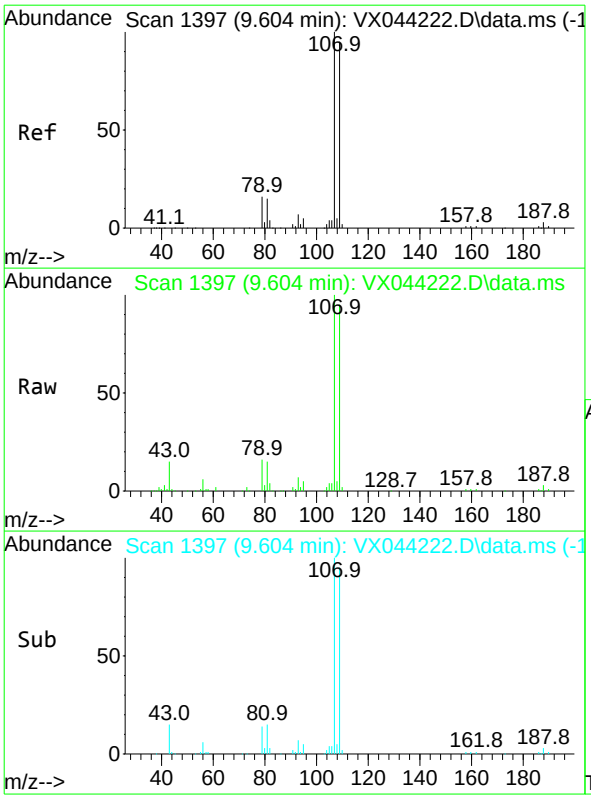


#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:129 Resp: 86352

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.5	115.3

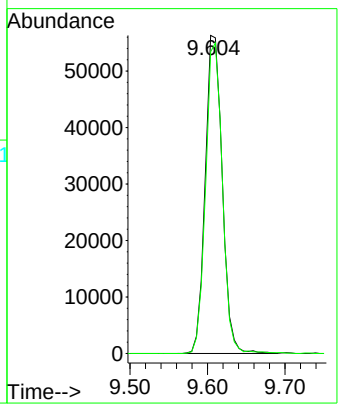




#61
1,2-Dibromoethane
Concen: 53.454 ug/l
RT: 9.604 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:107 Resp: 86150

Ion	Ratio	Lower	Upper
107	100		
109	96.2	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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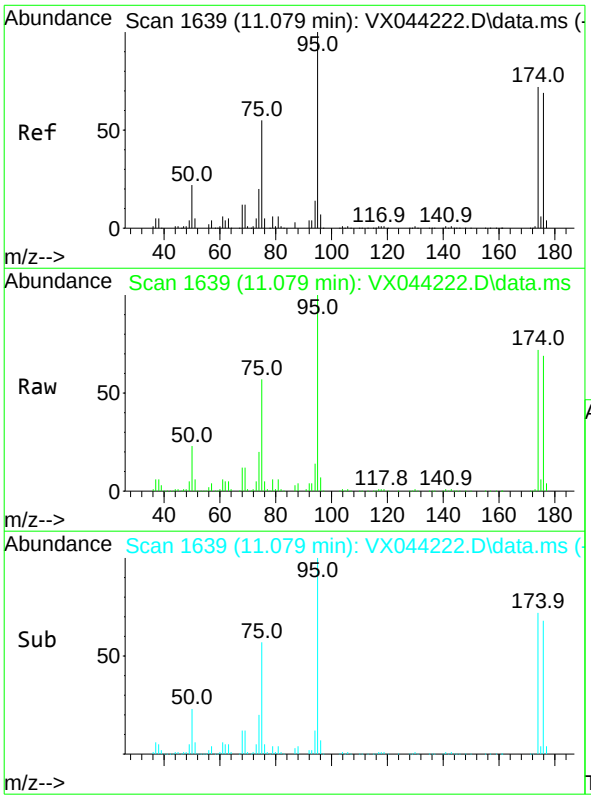
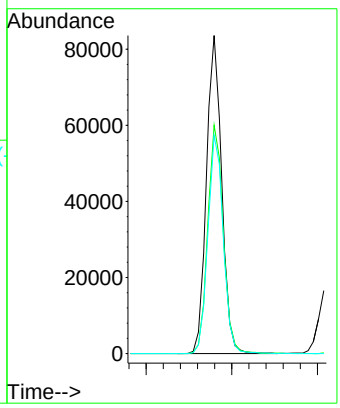
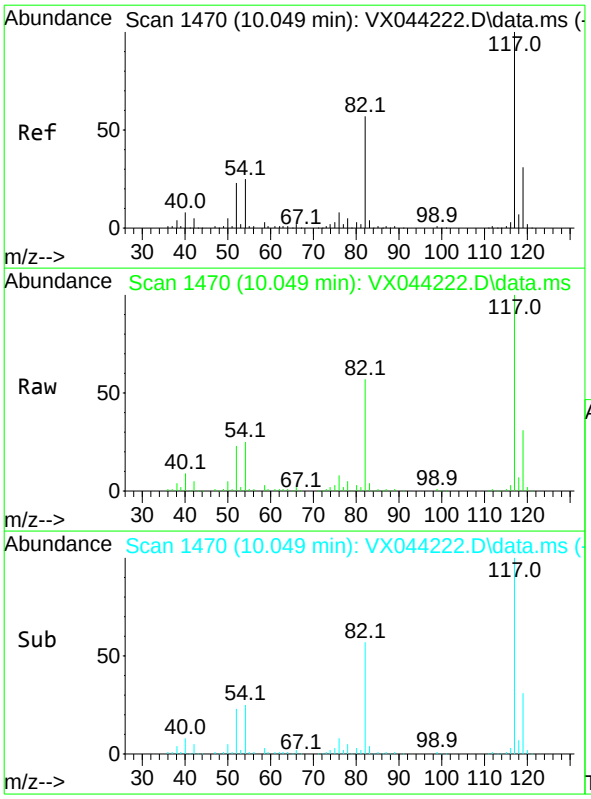


#62
4-Bromofluorobenzene
Concen: 54.123 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 95 Resp: 103178

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	145.8
176	68.9	0.0	137.8

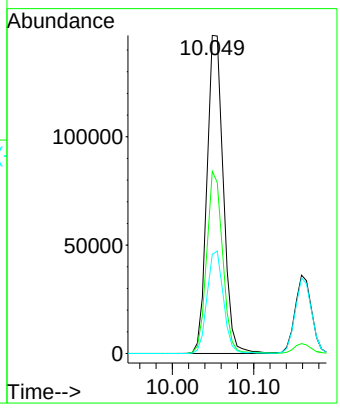




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 205196

Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.8	68.8
119	31.2	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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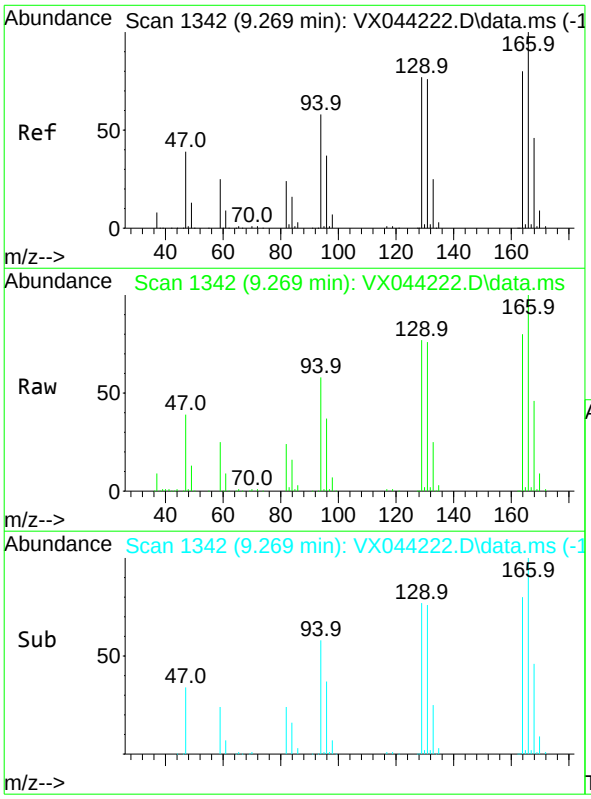
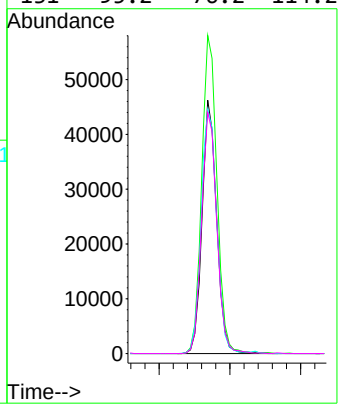
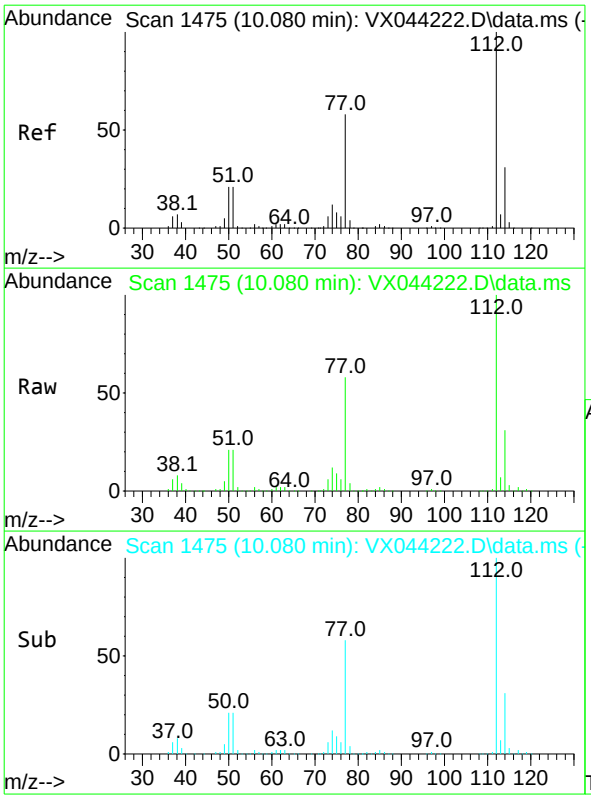


#64
Tetrachloroethene
Concen: 48.379 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:164 Resp: 65888

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	96.5	77.2	115.8
131	95.2	76.2	114.2

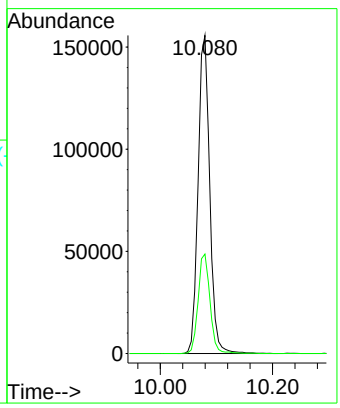




#65
Chlorobenzene
Concen: 50.779 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:112 Resp: 223269

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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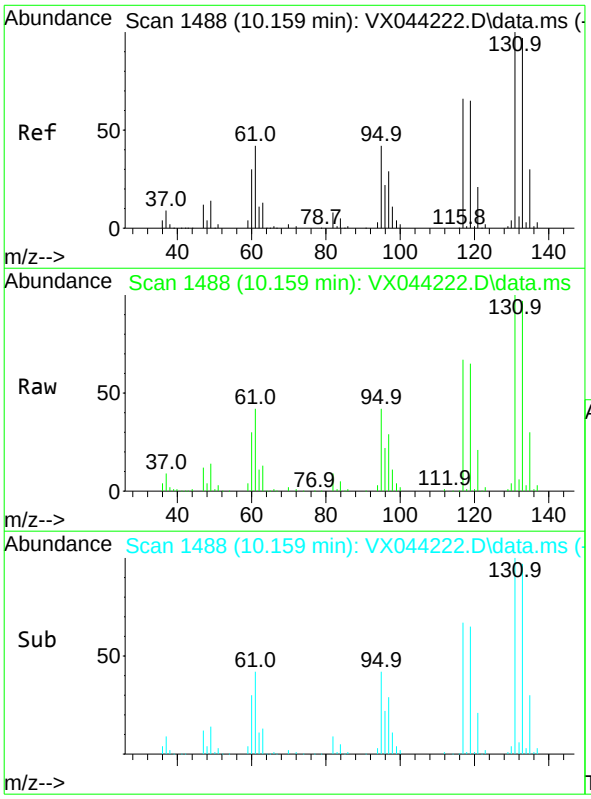
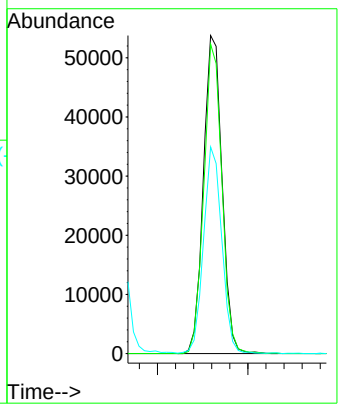
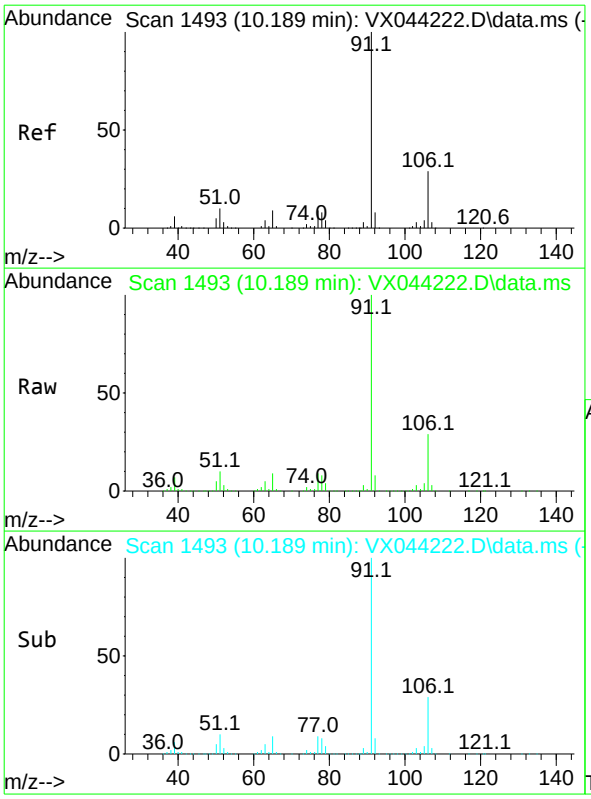


#66
1,1,1,2-Tetrachloroethane
Concen: 54.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:131 Resp: 76867

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	63.3	31.6	95.0

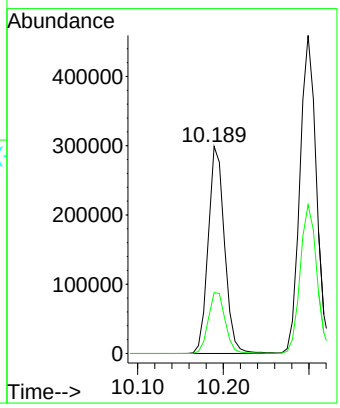




#67
Ethyl Benzene
Concen: 52.050 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 395430

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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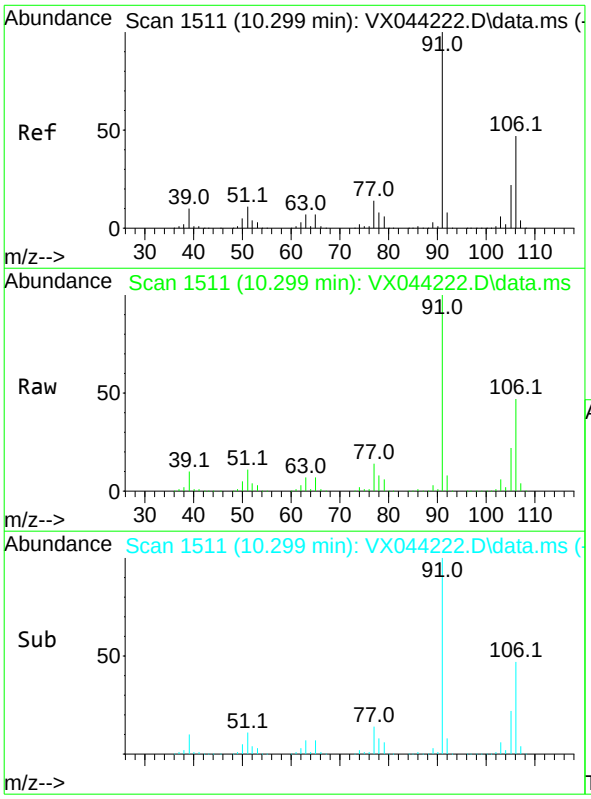
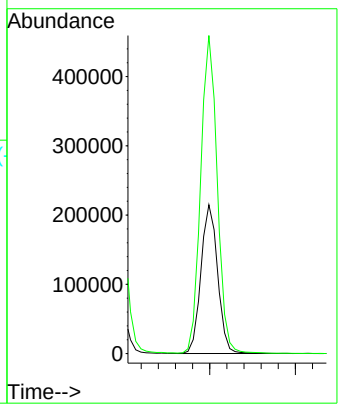
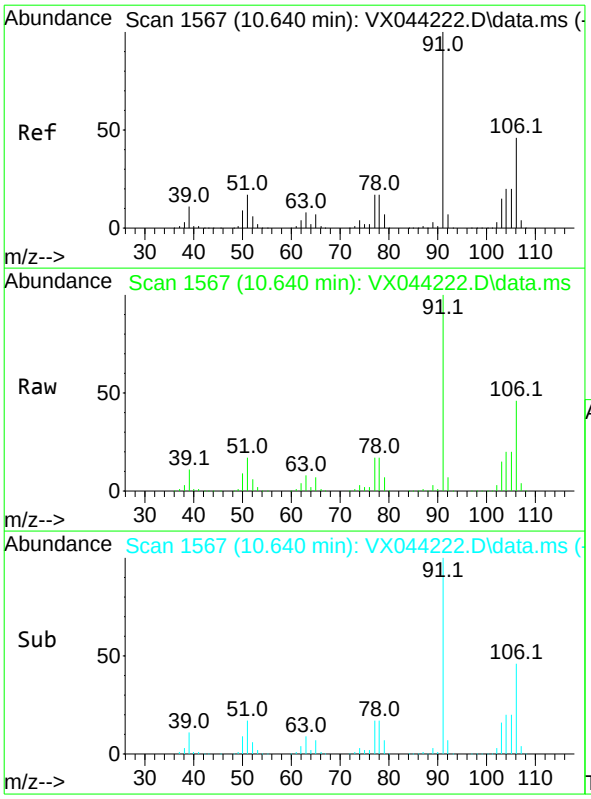


#68
m/p-Xylenes
Concen: 104.094 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:106 Resp: 290181

Ion	Ratio	Lower	Upper
106	100		
91	212.7	170.2	255.2

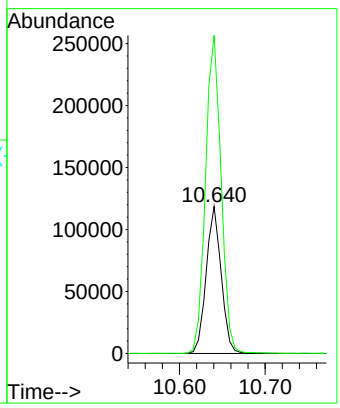




#69
o-Xylene
Concen: 51.141 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:106 Resp: 144247

Ion	Ratio	Lower	Upper
106	100		
91	224.7	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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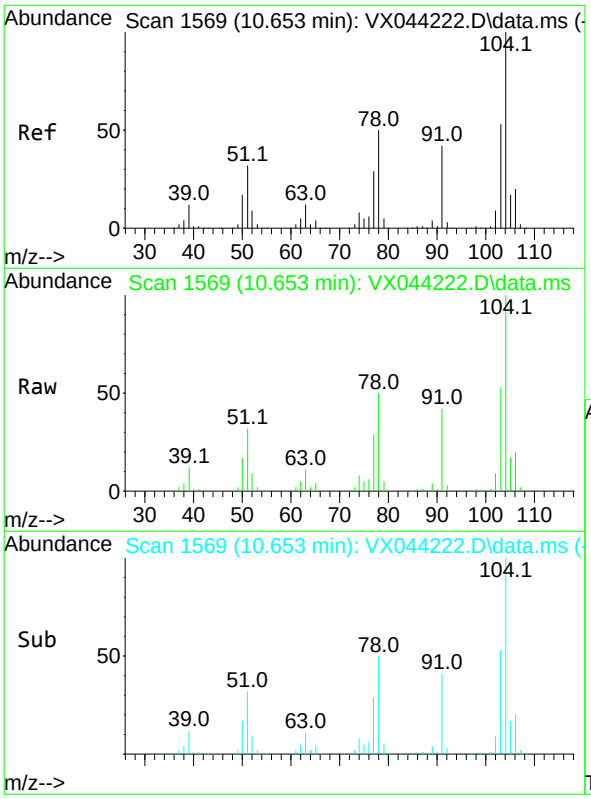
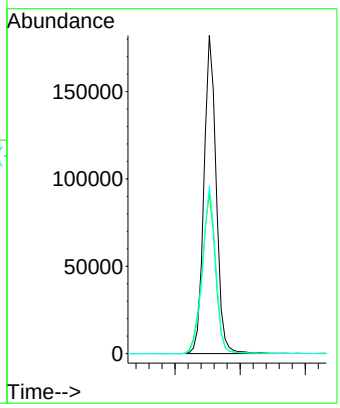
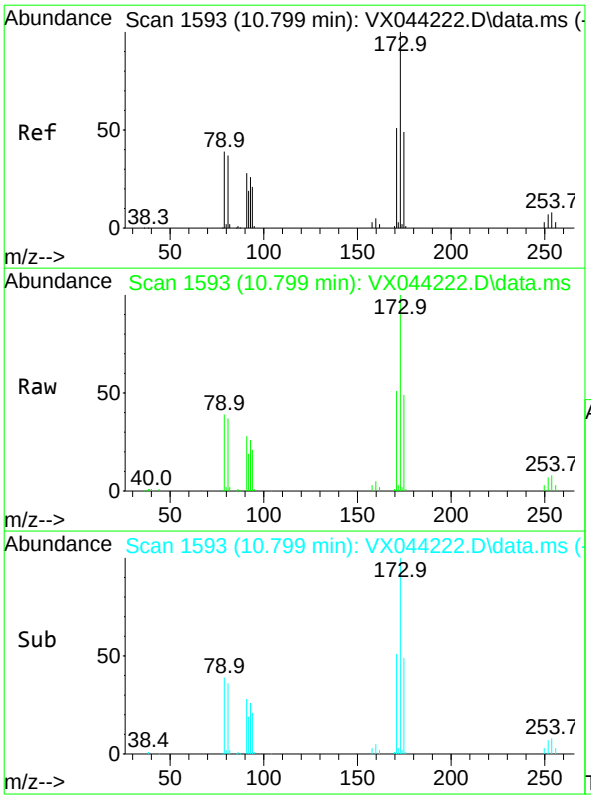


#70
Styrene
Concen: 52.719 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:104 Resp: 238379

Ion	Ratio	Lower	Upper
104	100		
78	55.8	44.6	67.0
103	56.7	45.4	68.0

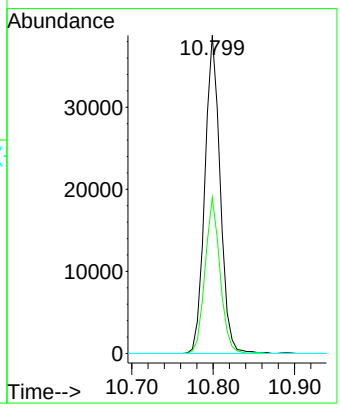




#71
Bromoform
Concen: 51.158 ug/l
RT: 10.799 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:173 Resp: 50667

Ion	Ratio	Lower	Upper
173	100		
175	47.6	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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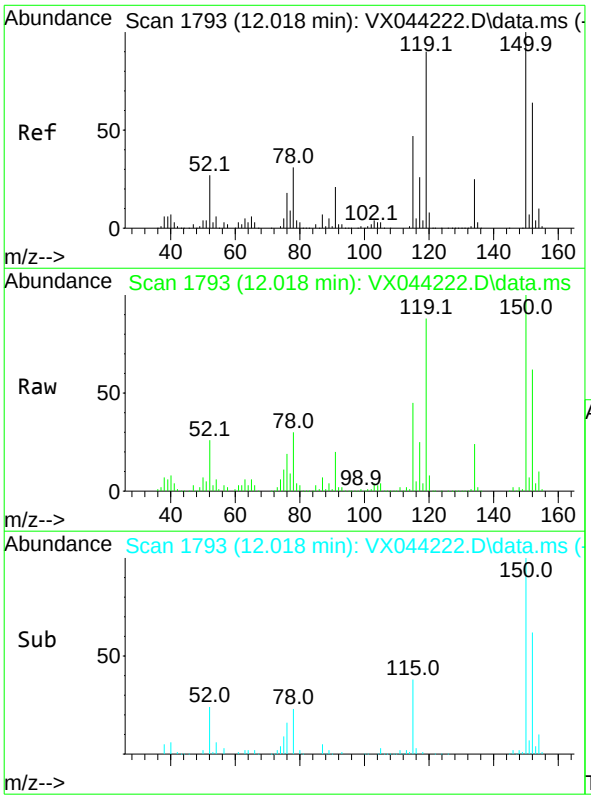
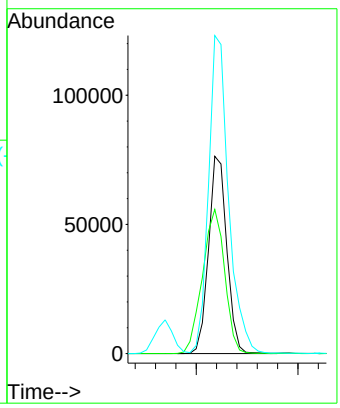
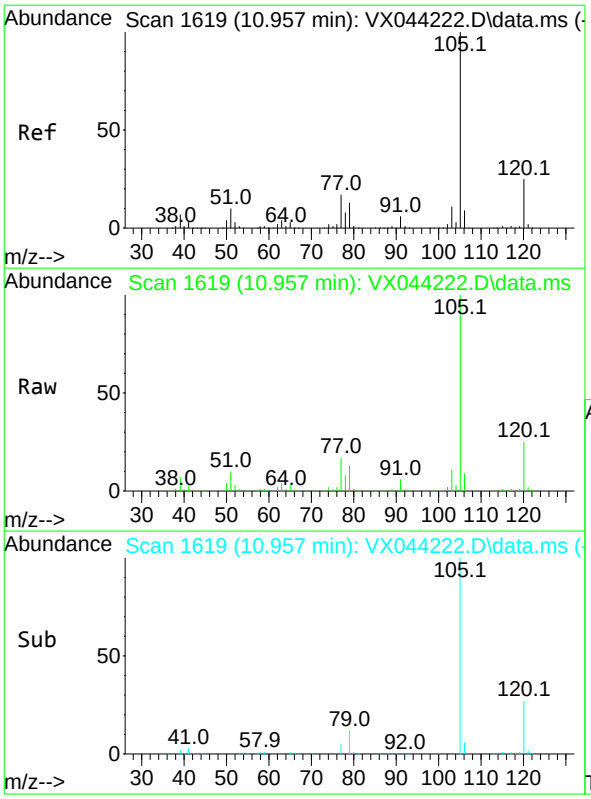


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:152 Resp: 95227

Ion	Ratio	Lower	Upper
152	100		
115	88.9	44.5	133.3
150	176.9	0.0	353.8

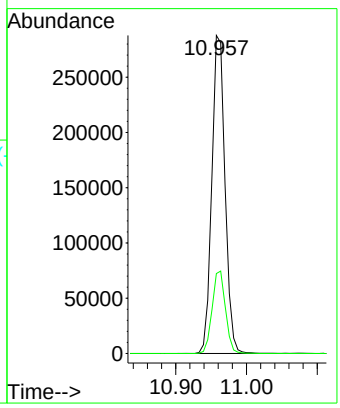




#73
Isopropylbenzene
Concen: 51.100 ug/l
RT: 10.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 372519

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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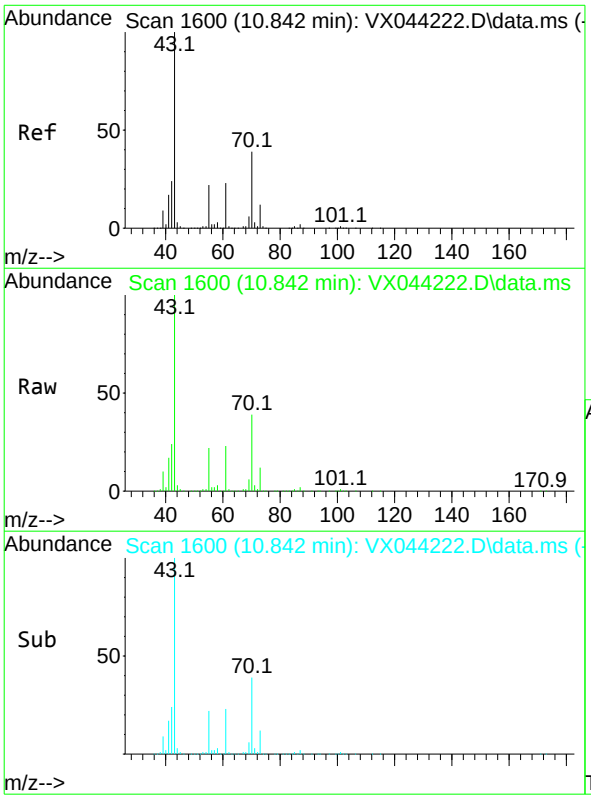
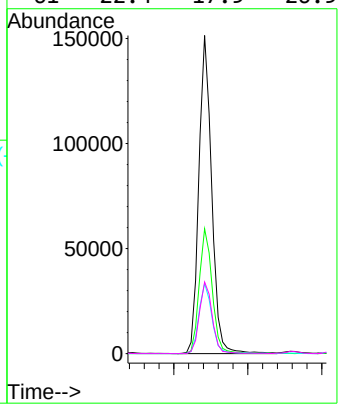
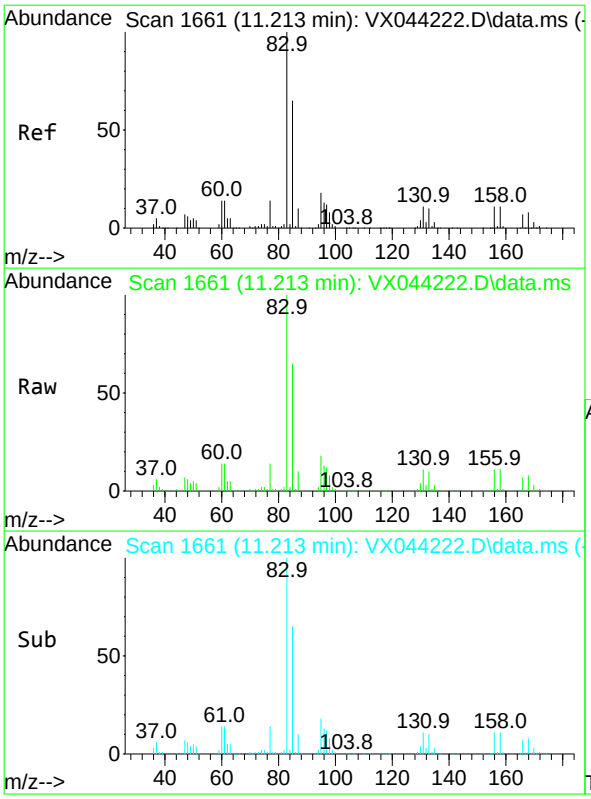


#74
N-amyl acetate
Concen: 54.166 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 182491

Ion	Ratio	Lower	Upper
43	100		
70	39.9	31.9	47.9
55	22.4	17.9	26.9
61	22.4	17.9	26.9

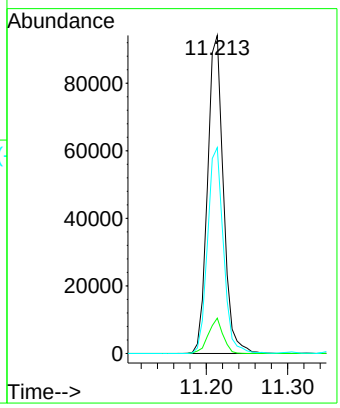




#75
1,1,2,2-Tetrachloroethane
Concen: 50.233 ug/l
RT: 11.213 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 127193

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.9	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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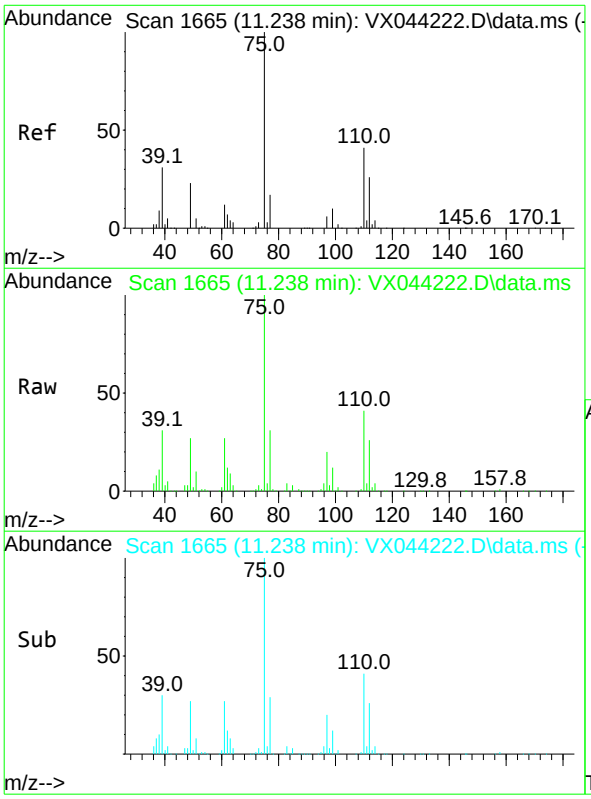
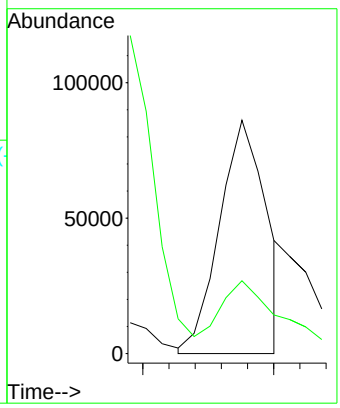
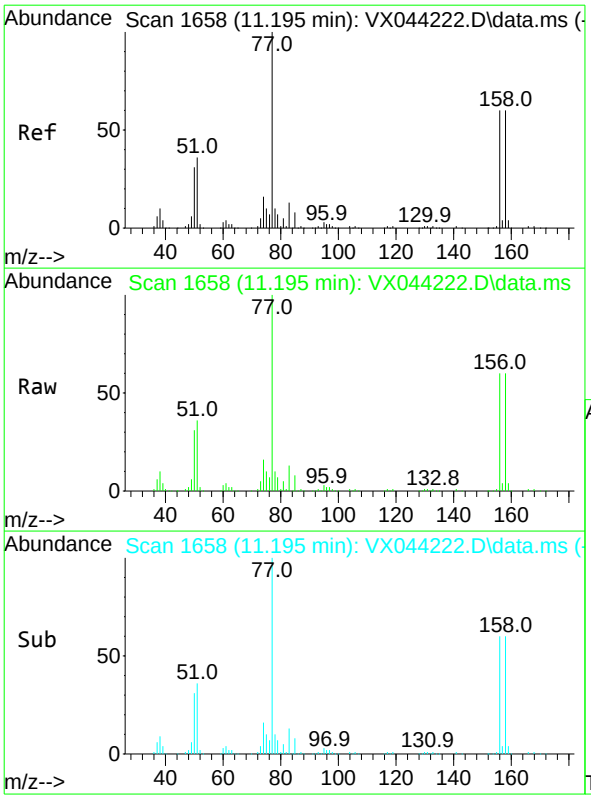


#76
1,2,3-Trichloropropane
Concen: 49.518 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 107003

Ion	Ratio	Lower	Upper
75	100		
77	41.8	20.9	62.7

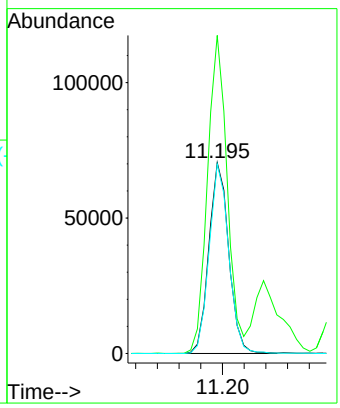




#77
Bromobenzene
Concen: 50.734 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:156 Resp: 89687

Ion	Ratio	Lower	Upper
156	100		
77	165.2	82.6	247.8
158	97.6	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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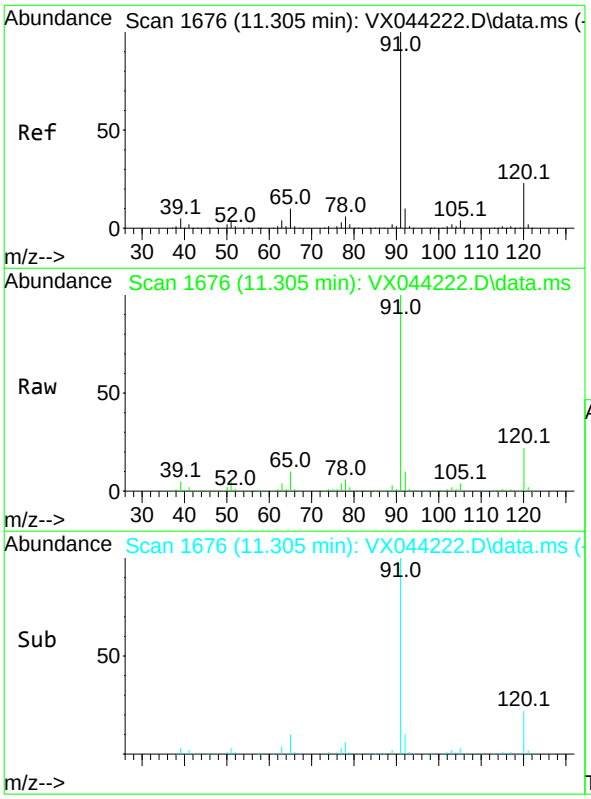
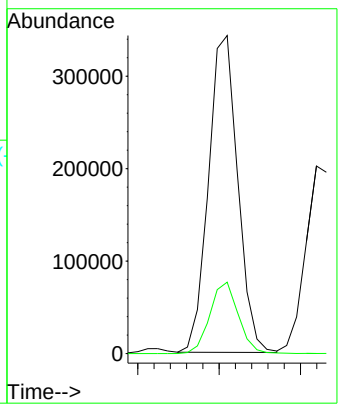
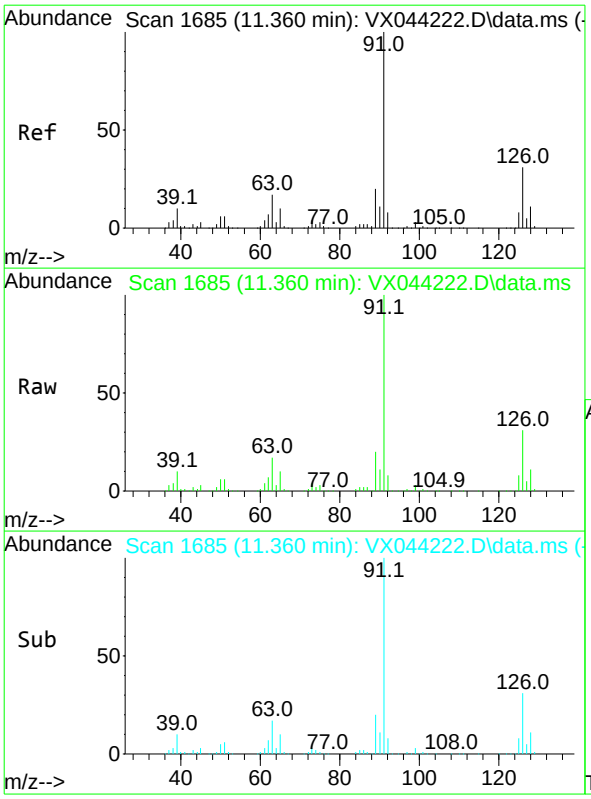


#78
n-propylbenzene
Concen: 53.211 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 428741

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0

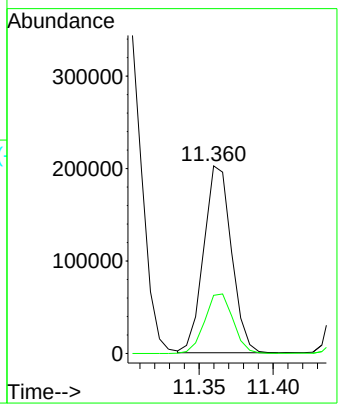




#79
2-Chlorotoluene
Concen: 50.634 ug/l
RT: 11.360 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 263849

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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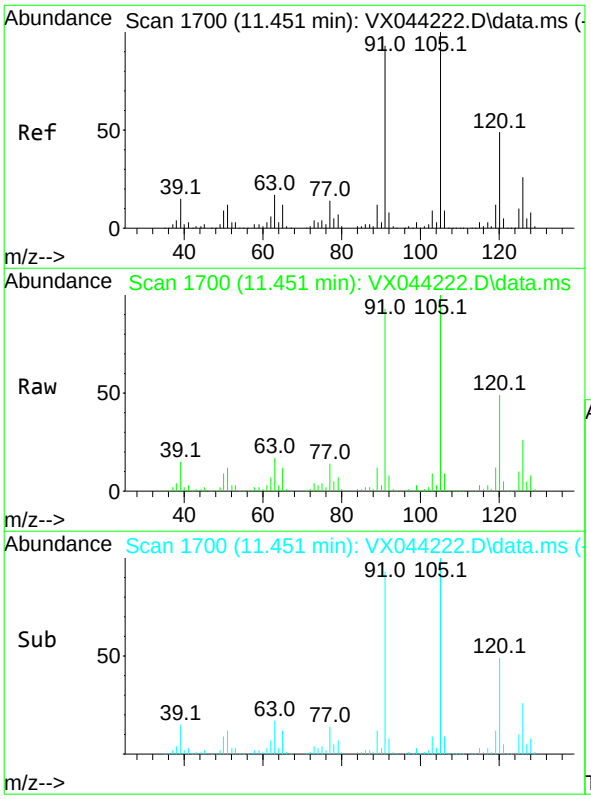
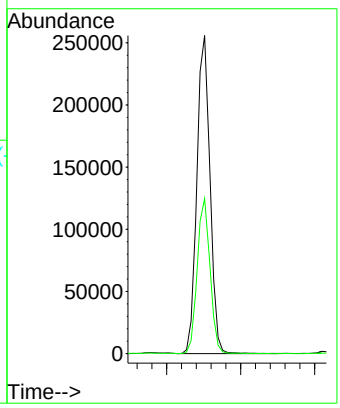
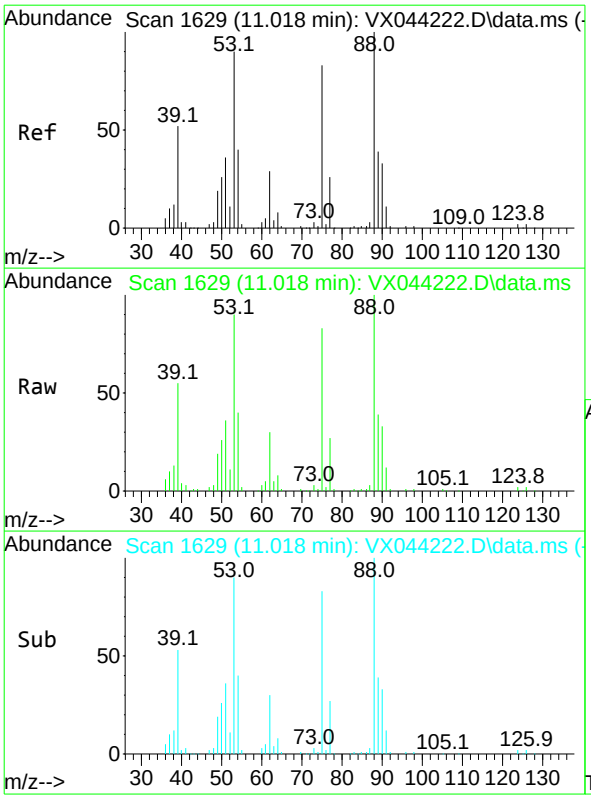


#80
1,3,5-Trimethylbenzene
Concen: 52.102 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 314986

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4

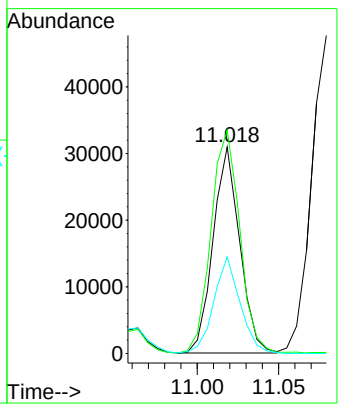




#81
trans-1,4-Dichloro-2-butene
Concen: 47.628 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 35119

Ion	Ratio	Lower	Upper
75	100		
53	117.0	93.6	140.4
89	46.6	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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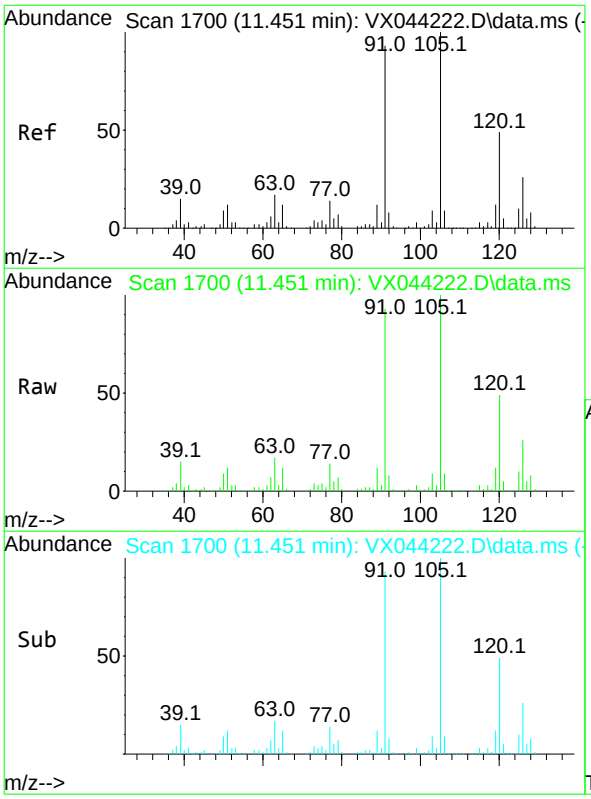
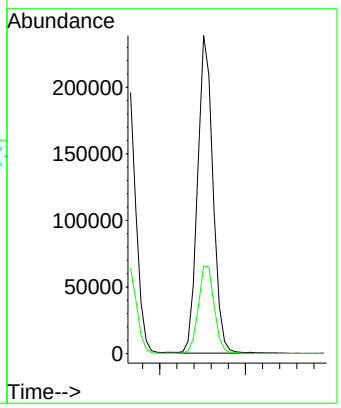
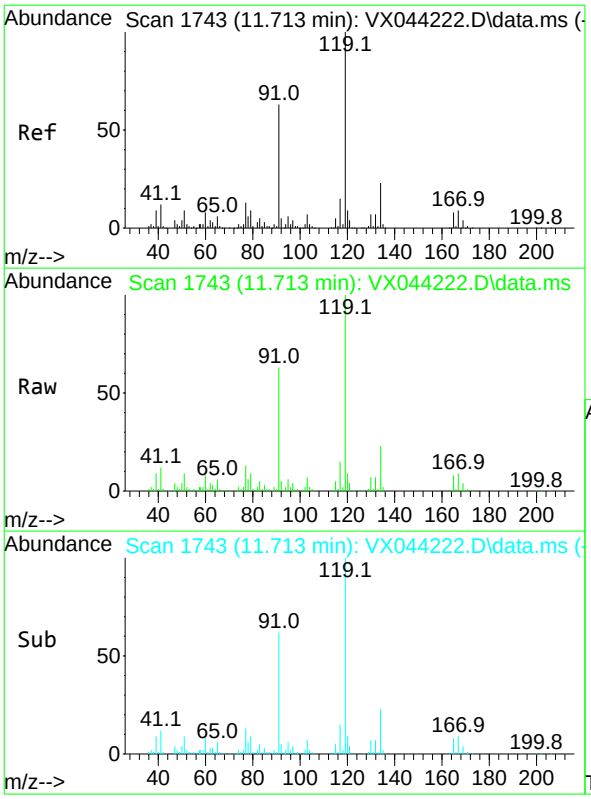


#82
4-Chlorotoluene
Concen: 51.387 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 296520

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.5	43.5

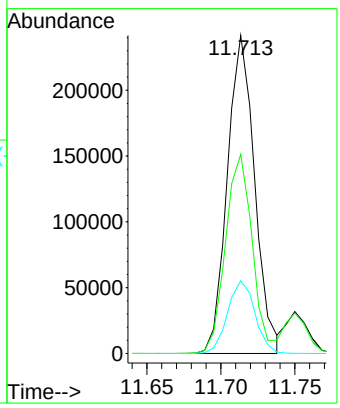




#83
tert-Butylbenzene
Concen: 51.940 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:119 Resp: 310320

Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.9	92.5
134	22.9	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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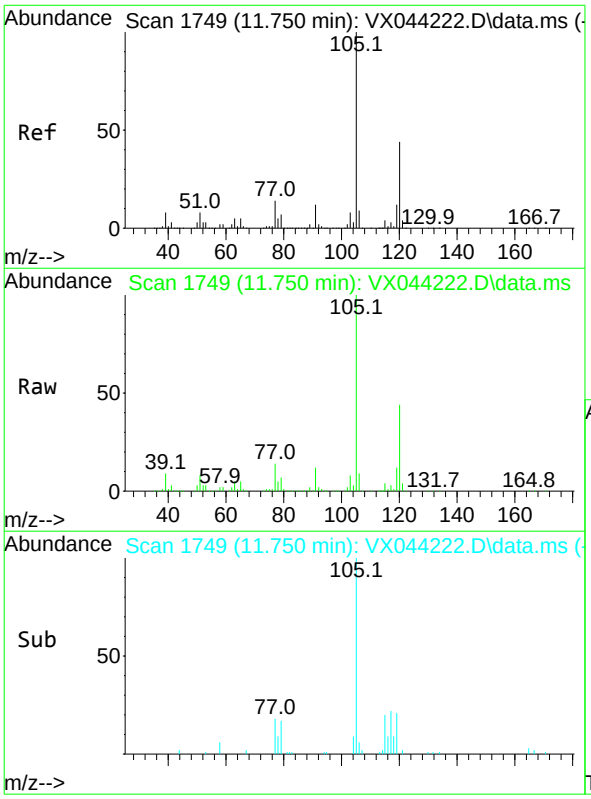
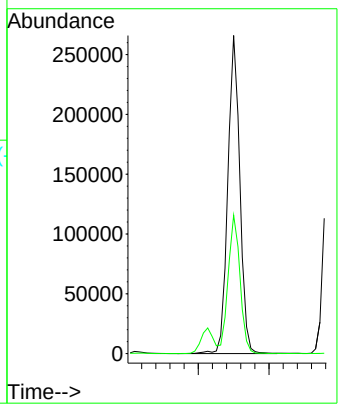
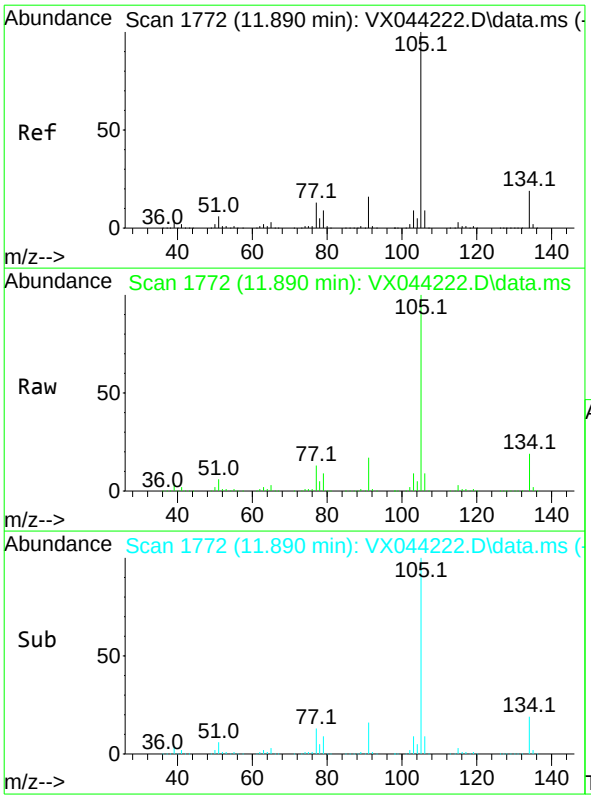


#84
1,2,4-Trimethylbenzene
Concen: 52.776 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 313338

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.7	65.1

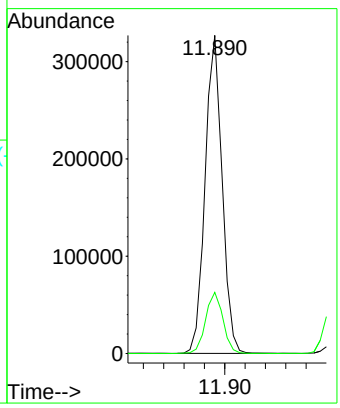




#85
sec-Butylbenzene
Concen: 52.329 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 379552

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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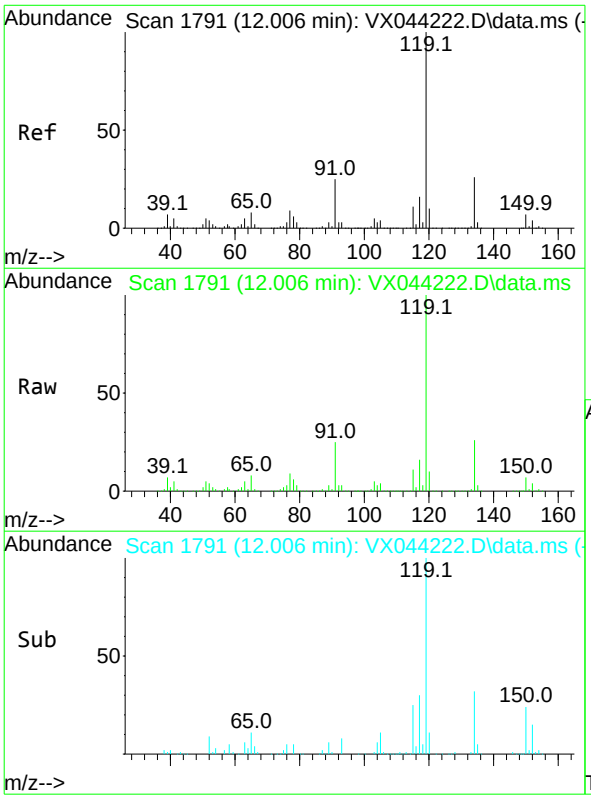
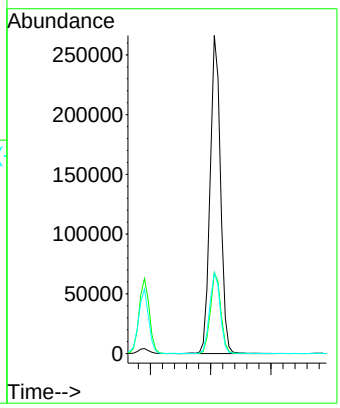
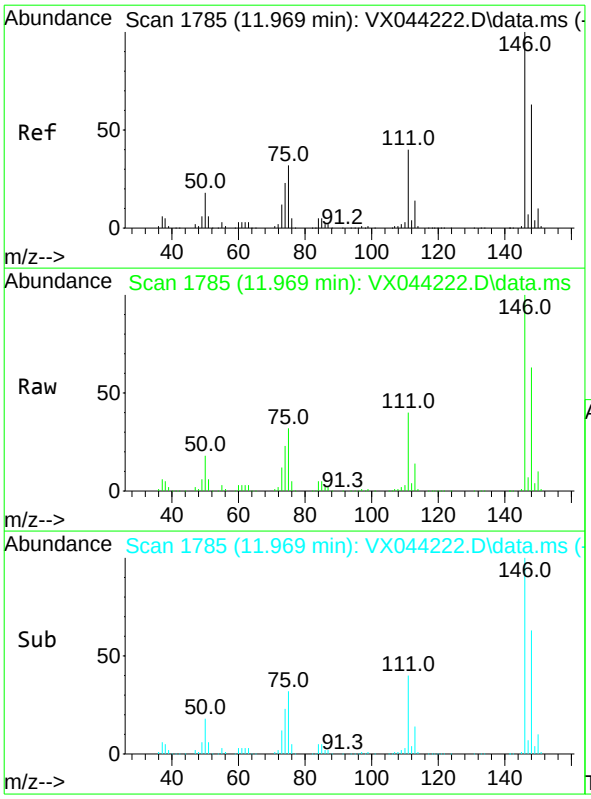


#86
p-Isopropyltoluene
Concen: 52.796 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:119 Resp: 318721

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	26.0	13.0	39.0

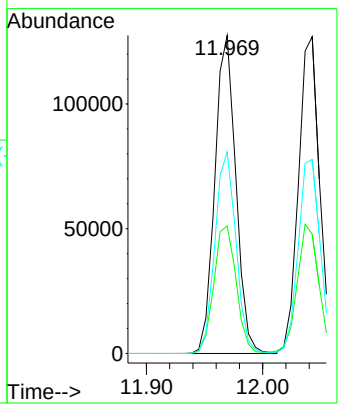




#87
1,3-Dichlorobenzene
Concen: 51.887 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:146 Resp: 160223

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.2
148	63.4	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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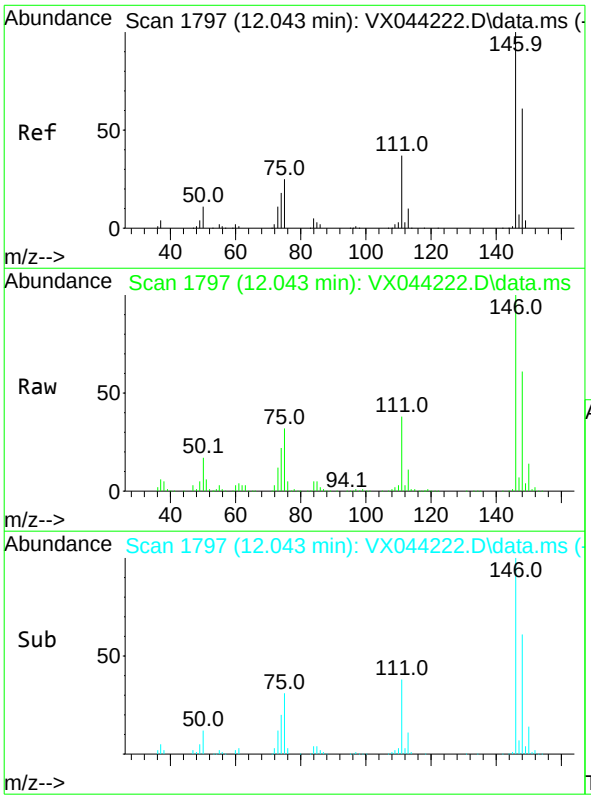
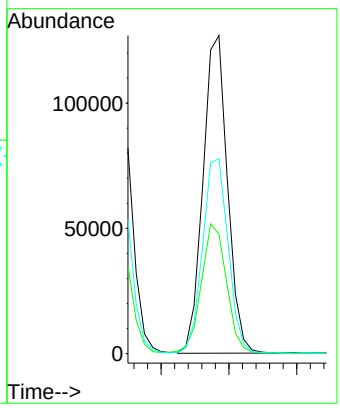
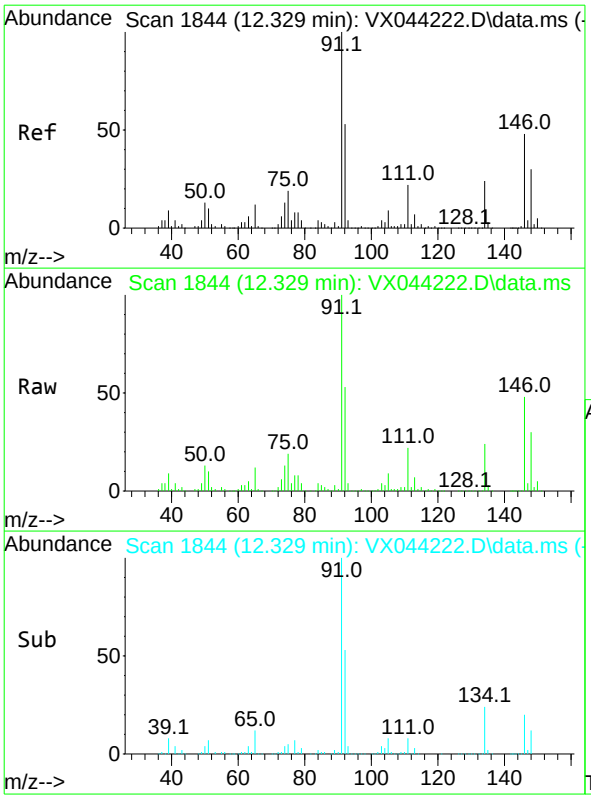


#88
1,4-Dichlorobenzene
Concen: 50.171 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:146 Resp: 159258

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	64.5	32.3	96.8





#89
n-Butylbenzene
Concen: 53.354 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 270840

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	25.2	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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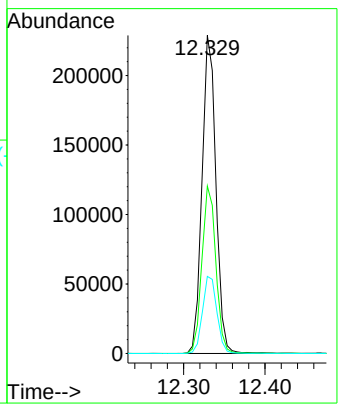
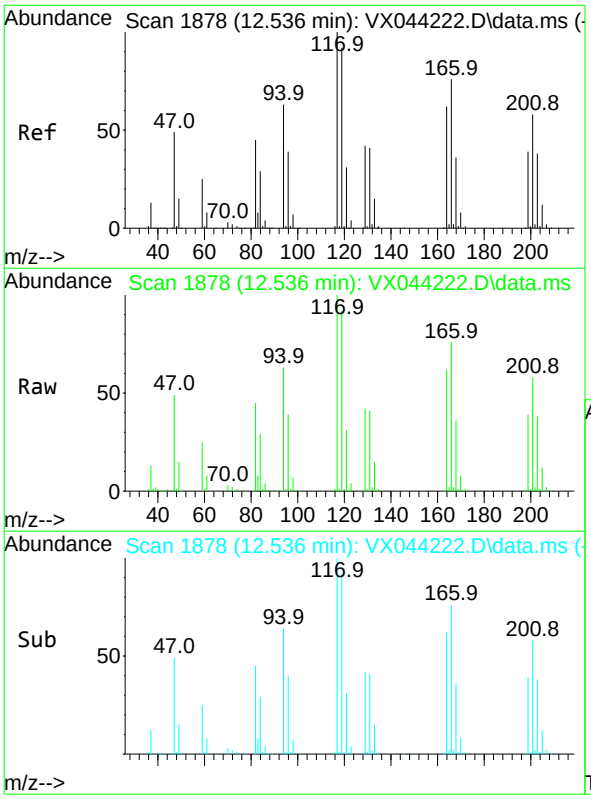
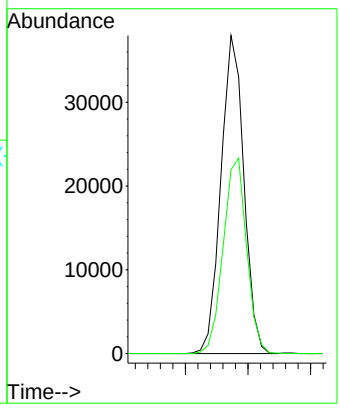


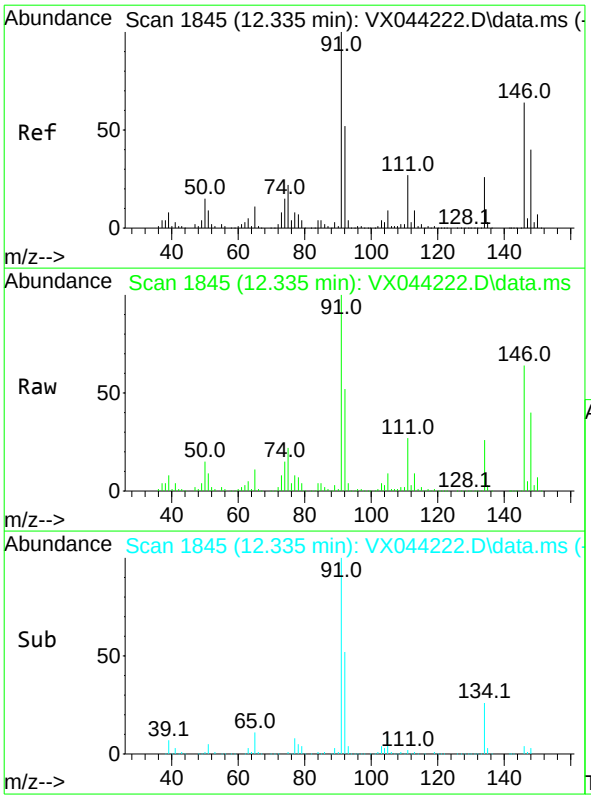


#90
Hexachloroethane
Concen: 54.813 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 48303

Ion	Ratio	Lower	Upper
117	100		
201	62.8	31.4	94.2

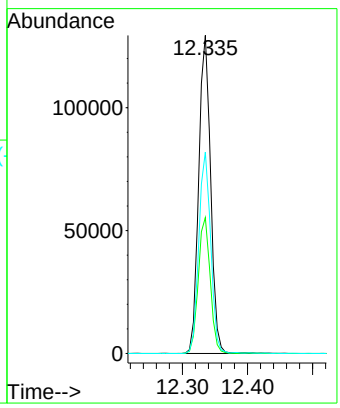




#91
1,2-Dichlorobenzene
Concen: 51.256 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:146 Resp: 164342

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	63.3	31.6	95.0



Instrument :
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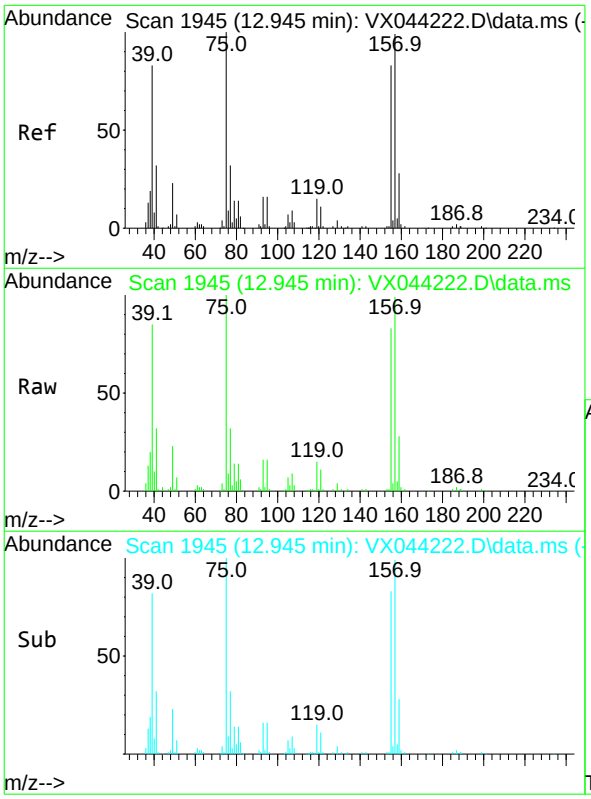
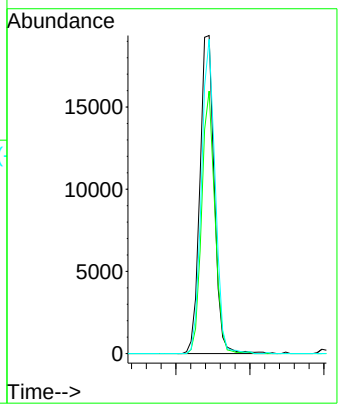
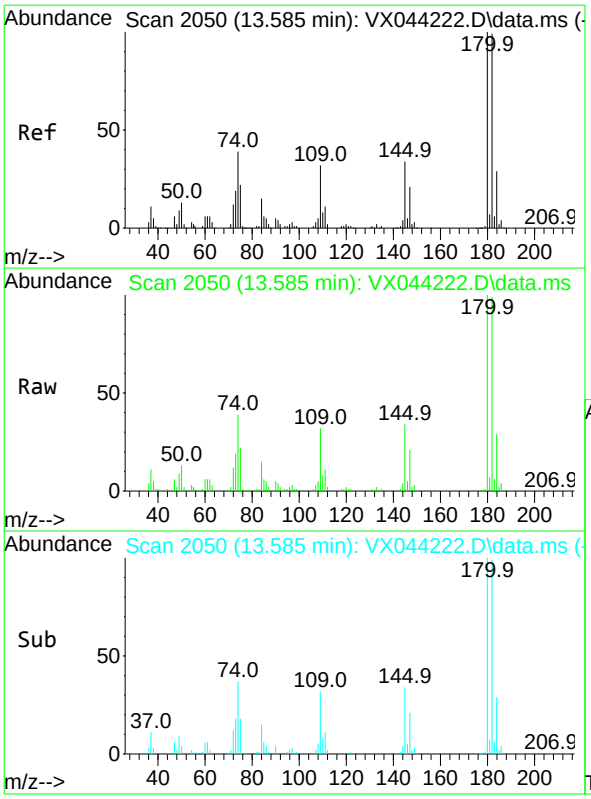


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.951 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 26027

Ion	Ratio	Lower	Upper
75	100		
155	76.2	38.1	114.3
157	94.4	47.2	141.6

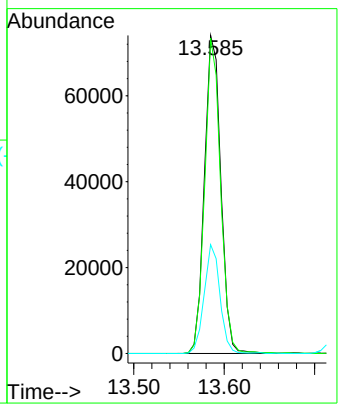




#93
1,2,4-Trichlorobenzene
Concen: 53.005 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:180 Resp: 93173

Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	33.1	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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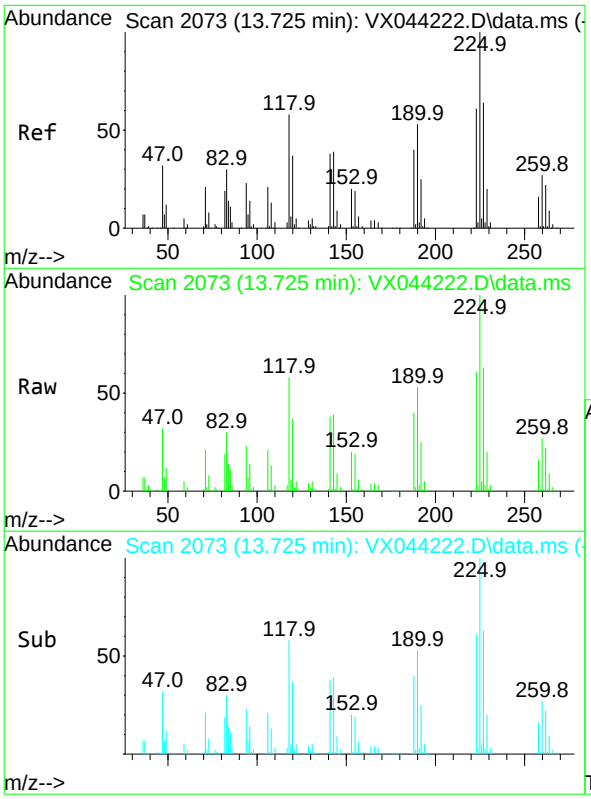
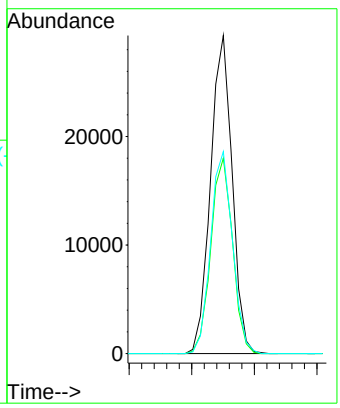
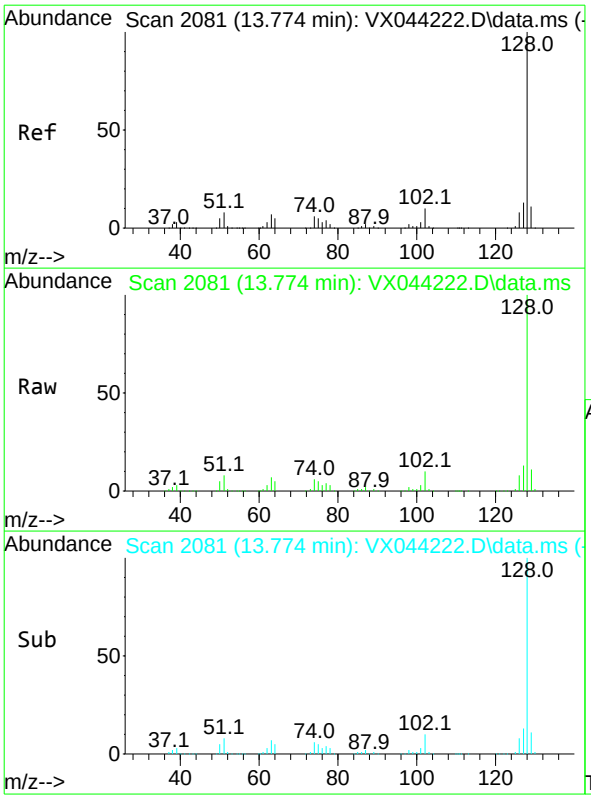


#94
Hexachlorobutadiene
Concen: 49.744 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:225 Resp: 35172

Ion	Ratio	Lower	Upper
225	100		
223	61.6	30.8	92.4
227	64.2	32.1	96.3

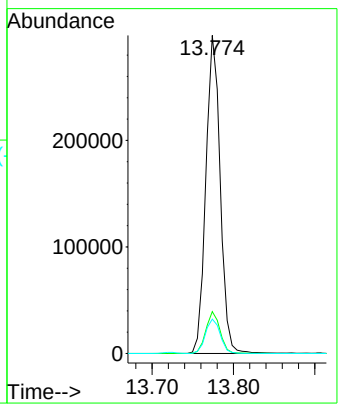




#95
Naphthalene
Concen: 53.230 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:128 Resp: 365234

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.2	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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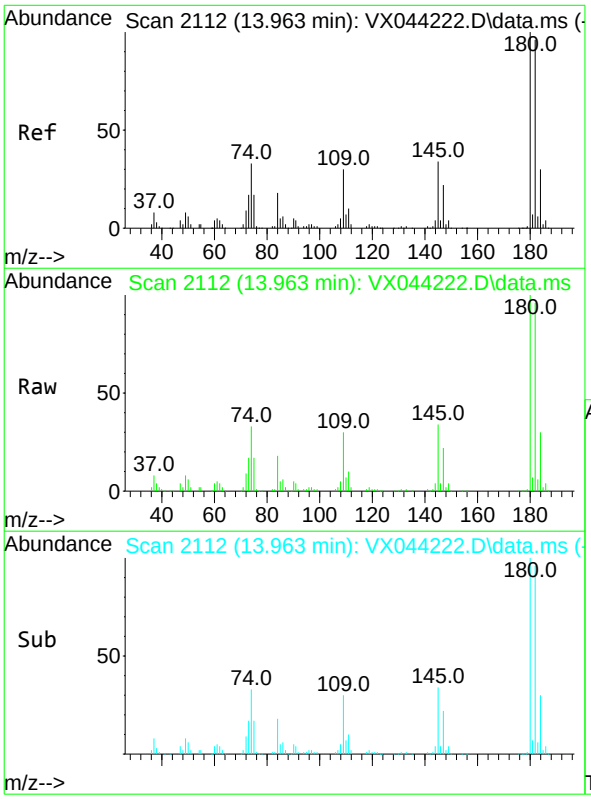
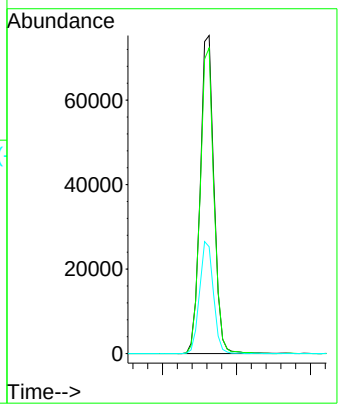
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 52.027 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:180 Resp: 97000

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	35.4	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	130101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	235738	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	209164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	97670	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	224292	98.326	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.660%#			
35) Dibromofluoromethane	5.379	113	169582	103.866	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 207.740%#			
50) Toluene-d8	8.647	98	579477	105.201	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 210.400%#			
62) 4-Bromofluorobenzene	11.079	95	203694	105.830	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 211.660%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	193785	96.329	ug/l	97
3) Chloromethane	1.295	50	186167	96.774	ug/l	99
4) Vinyl Chloride	1.374	62	187739	93.675	ug/l	99
5) Bromomethane	1.593	94	137770	96.897	ug/l	97
6) Chloroethane	1.660	64	109912	88.074	ug/l	95
7) Trichlorofluoromethane	1.862	101	384622	98.030	ug/l	98
8) Diethyl Ether	2.136	74	124039	92.618	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	149151	93.944	ug/l	99
10) Methyl Iodide	2.441	142	203545	97.275	ug/l	100
11) Tert butyl alcohol	3.008	59	173139	539.406	ug/l	100
12) 1,1-Dichloroethene	2.307	96	144268	98.930	ug/l	100
13) Acrolein	2.240	56	226037	485.718	ug/l	99
14) Allyl chloride	2.654	41	244602	100.703	ug/l	99
15) Acrylonitrile	3.069	53	446747	501.661	ug/l	99
16) Acetone	2.392	43	452955	487.065	ug/l	97
17) Carbon Disulfide	2.496	76	320036	115.453	ug/l	99
18) Methyl Acetate	2.709	43	230998	96.338	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	564545	99.205	ug/l	99
20) Methylene Chloride	2.782	84	168498	96.466	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	154797	99.880	ug/l	98
22) Diisopropyl ether	3.764	45	538742	98.498	ug/l	99
23) Vinyl Acetate	3.721	43	2395923	538.801	ug/l	100
24) 1,1-Dichloroethane	3.605	63	304626	99.915	ug/l	99
25) 2-Butanone	4.568	43	662768	501.306	ug/l	99
26) 2,2-Dichloropropane	4.471	77	258092	104.201	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	190127	96.593	ug/l	99
28) Bromochloromethane	4.891	49	144783	96.842	ug/l	99
29) Tetrahydrofuran	5.007	42	412666	486.290	ug/l	99
30) Chloroform	5.093	83	331047	96.642	ug/l	98
31) Cyclohexane	5.458	56	239879	97.433	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	291065	102.363	ug/l	99
36) 1,1-Dichloropropene	5.684	75	209732	99.376	ug/l	98
37) Ethyl Acetate	4.721	43	266307	102.079	ug/l	100
38) Carbon Tetrachloride	5.672	117	236869	104.249	ug/l	96
39) Methylcyclohexane	7.373	83	259368	102.800	ug/l	98
40) Benzene	6.032	78	638055	99.575	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	140375	101.332 ug/l		99
42) 1,2-Dichloroethane	6.086	62	261991	99.255 ug/l		99
43) Isopropyl Acetate	6.342	43	427893	104.939 ug/l		99
44) Trichloroethene	7.123	130	158990	99.497 ug/l		99
45) 1,2-Dichloropropane	7.428	63	160913	98.293 ug/l		97
46) Dibromomethane	7.580	93	130316	102.607 ug/l		99
47) Bromodichloromethane	7.818	83	244401	111.423 ug/l		100
48) Methyl methacrylate	7.696	41	203116	102.618 ug/l		99
49) 1,4-Dioxane	7.665	88	73434m	2170.871 ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	1322678	504.496 ug/l		99
52) Toluene	8.714	92	396383	98.506 ug/l		100
53) t-1,3-Dichloropropene	8.976	75	248092	99.321 ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	263014	110.127 ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	157366	98.441 ug/l		98
56) Ethyl methacrylate	9.116	69	271146	107.442 ug/l		99
57) 1,3-Dichloropropane	9.305	76	274642	98.704 ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	671233	527.342 ug/l		100
59) 2-Hexanone	9.433	43	989466	521.401 ug/l		99
60) Dibromochloromethane	9.519	129	178135	99.480 ug/l		99
61) 1,2-Dibromoethane	9.610	107	171458	105.371 ug/l		97
64) Tetrachloroethene	9.269	164	130678	94.131 ug/l		97
65) Chlorobenzene	10.080	112	433179	96.650 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	153882	106.831 ug/l		99
67) Ethyl Benzene	10.195	91	765930	98.906 ug/l		97
68) m/p-Xylenes	10.299	106	571648	201.171 ug/l		99
69) o-Xylene	10.640	106	280603	97.597 ug/l		100
70) Styrene	10.653	104	480077	104.159 ug/l		97
71) Bromoform	10.799	173	112482	99.723 ug/l	#	98
73) Isopropylbenzene	10.964	105	731955	97.894 ug/l		99
74) N-amyl acetate	10.842	43	371420	107.485 ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.214	83	245395	94.491 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	206786m	93.302 ug/l		
77) Bromobenzene	11.195	156	175647	96.874 ug/l		98
78) n-propylbenzene	11.305	91	836676	101.242 ug/l		99
79) 2-Chlorotoluene	11.366	91	504407	94.377 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	604993	97.570 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	78453	97.165 ug/l		94
82) 4-Chlorotoluene	11.451	91	588197	99.384 ug/l		99
83) tert-Butylbenzene	11.713	119	606738	99.013 ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	614999	100.994 ug/l		100
85) sec-Butylbenzene	11.890	105	743098	99.889 ug/l		100
86) p-Isopropyltoluene	12.006	119	624416	100.847 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	317377	100.210 ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	316688	97.271 ug/l		99
89) n-Butylbenzene	12.329	91	564303	108.385 ug/l		99
90) Hexachloroethane	12.536	117	105946	117.218 ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	323040	98.232 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	54588	108.279 ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	197899	109.766 ug/l		98
94) Hexachlorobutadiene	13.725	225	72453	99.908 ug/l		97
95) Naphthalene	13.774	128	755181	107.308 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	206053	107.754 ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

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

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
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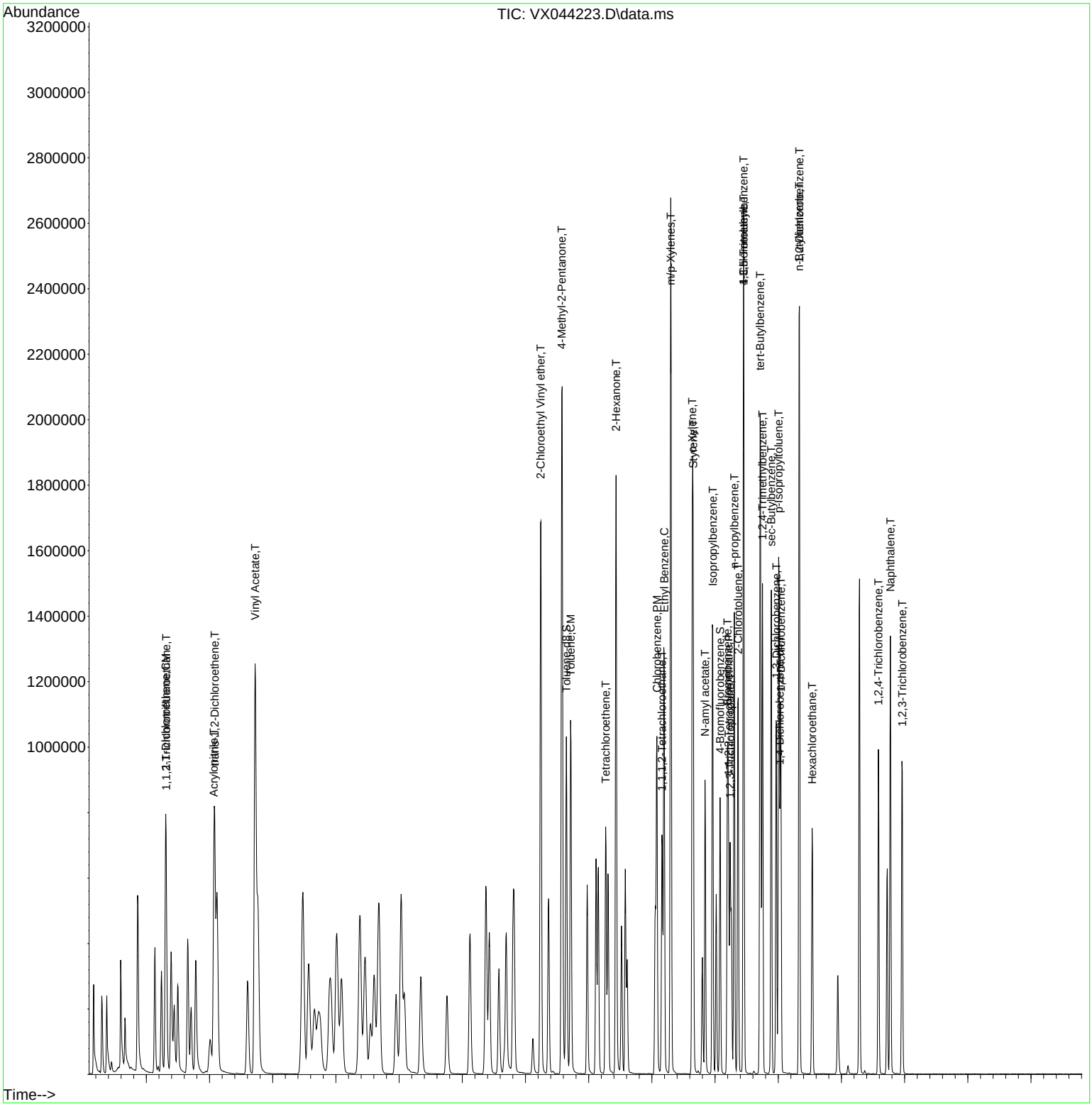
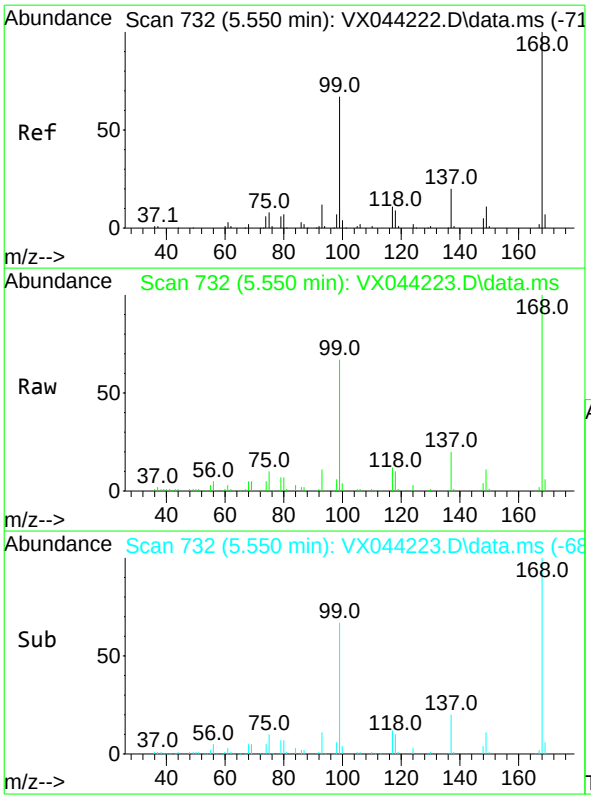
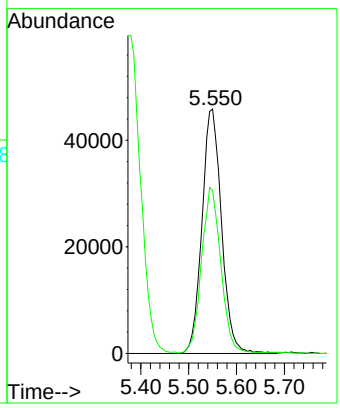




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:168 Resp: 130101

Ion	Ratio	Lower	Upper
168	100		
99	66.4	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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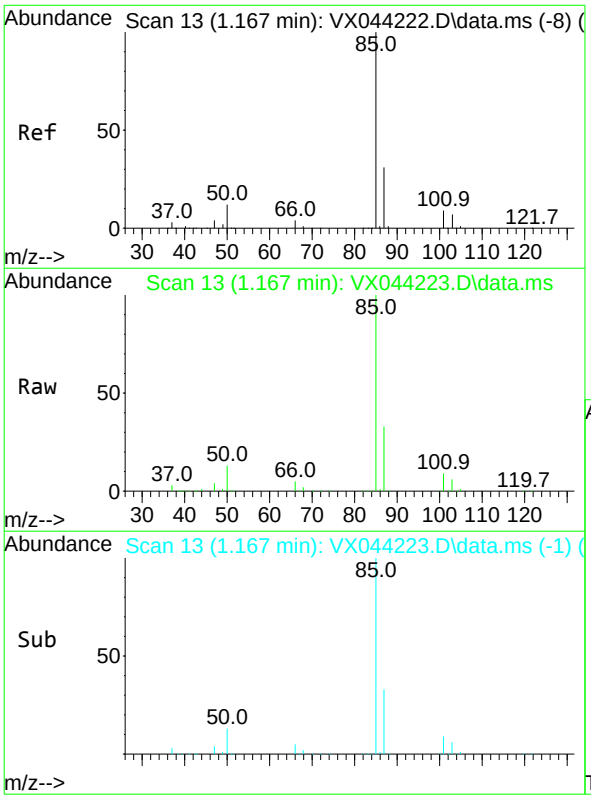
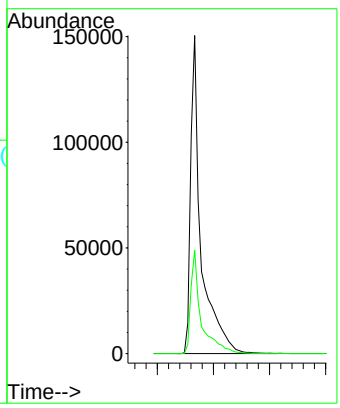
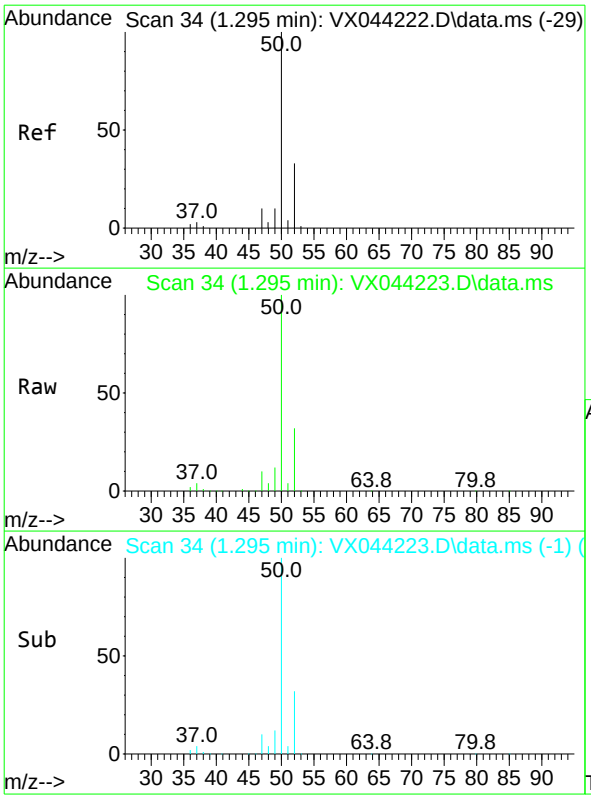


#2
Dichlorodifluoromethane
Concen: 96.329 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 85 Resp: 193785

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.4	46.4

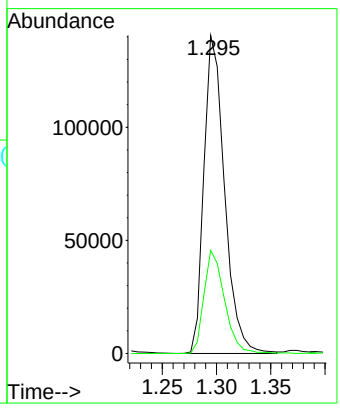




#3
Chloromethane
Concen: 96.774 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 50 Resp: 186167

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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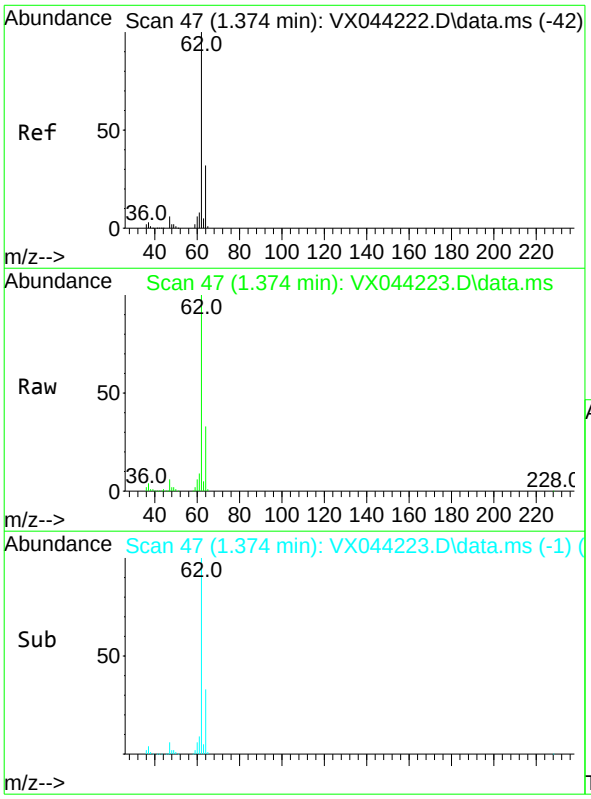
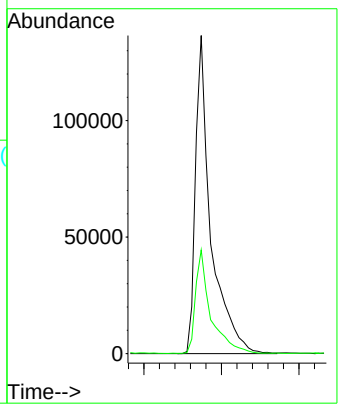
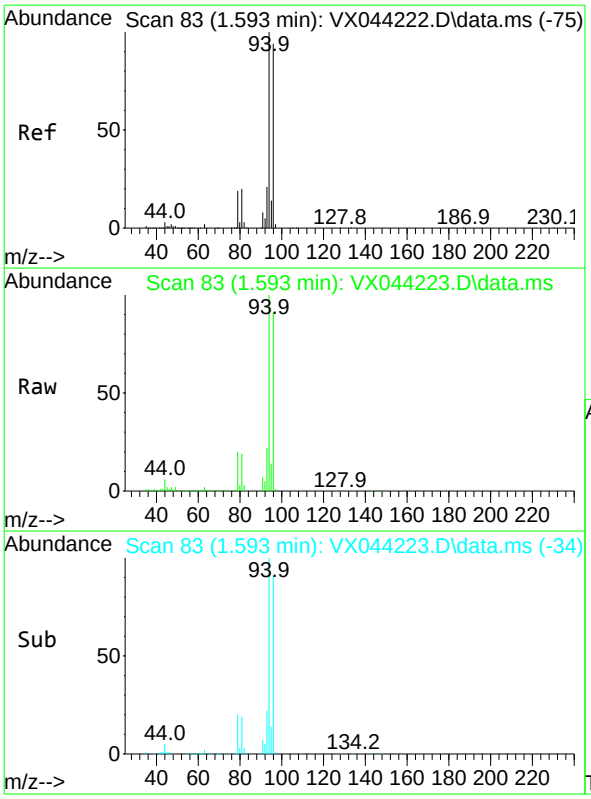


#4
Vinyl Chloride
Concen: 93.675 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 187739

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5

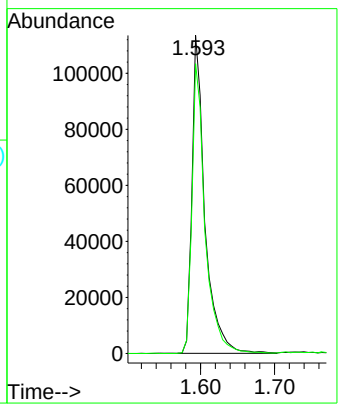




#5
Bromomethane
Concen: 96.897 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 94 Resp: 137770

Ion	Ratio	Lower	Upper
94	100		
96	91.1	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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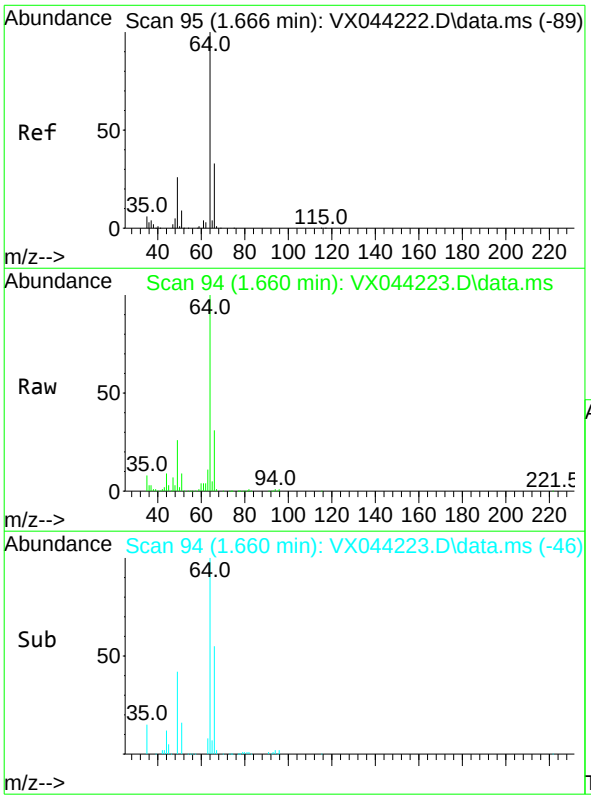
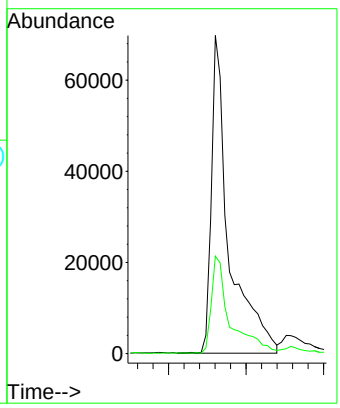
Supervised By :Mahesh Dadoda 12/12/2024

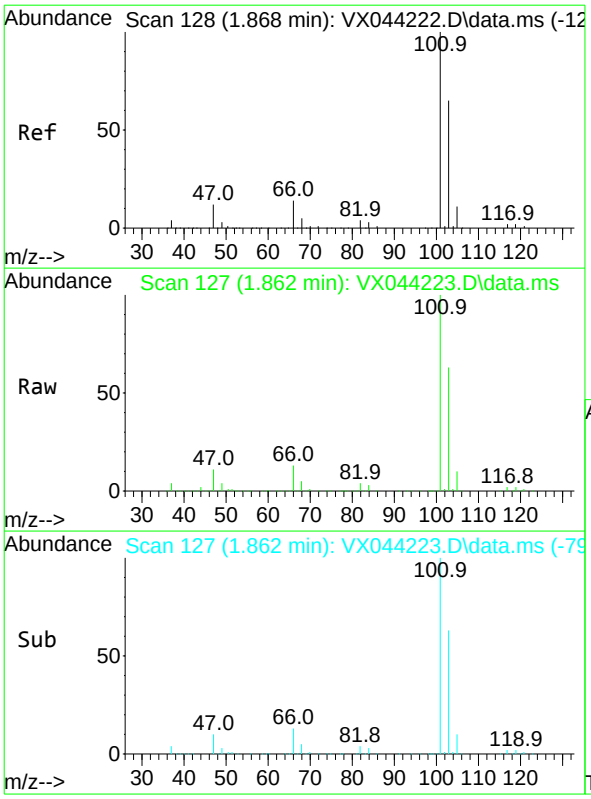


#6
Chloroethane
Concen: 88.074 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 64 Resp: 109912

Ion	Ratio	Lower	Upper
64	100		
66	30.5	26.6	39.8

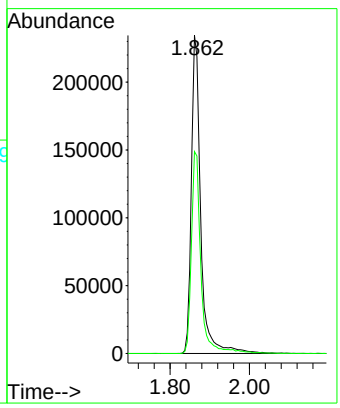




#7
Trichlorofluoromethane
Concen: 98.030 ug/l
RT: 1.862 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:101 Resp: 384622

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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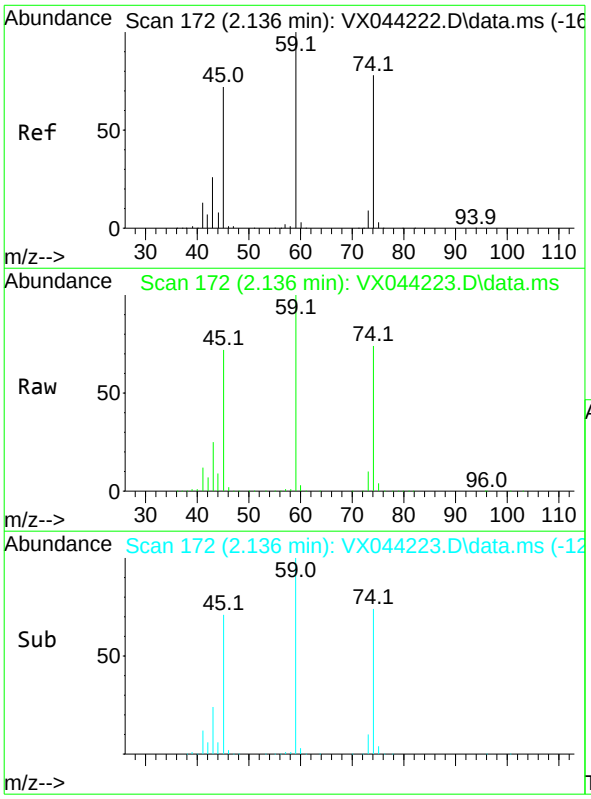
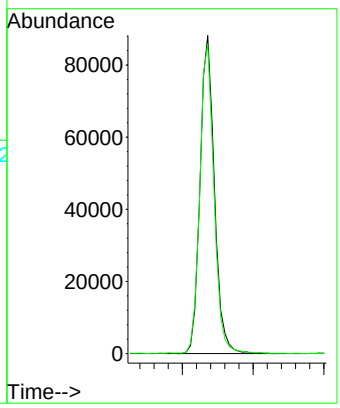
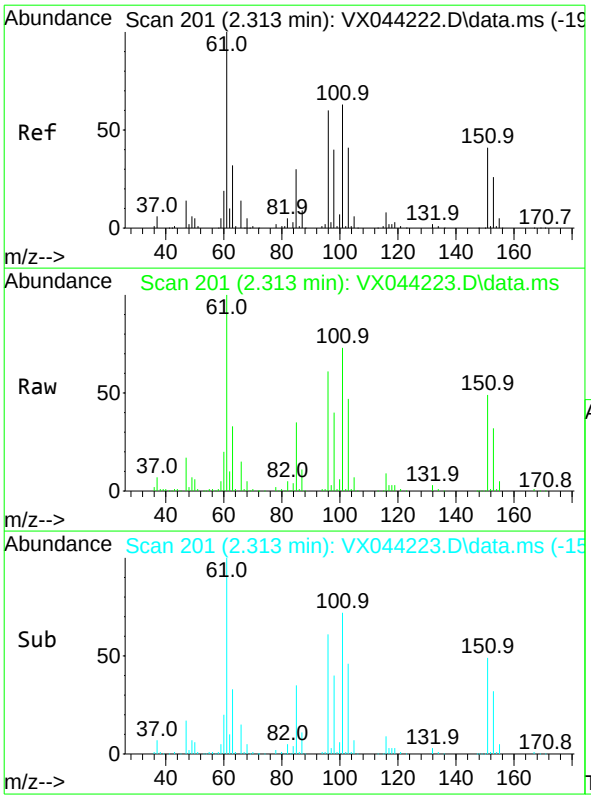


#8
Diethyl Ether
Concen: 92.618 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 74 Resp: 124039

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 93.944 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:101 Resp: 149151

Ion	Ratio	Lower	Upper
101	100		
85	48.9	38.5	57.7
151	70.5	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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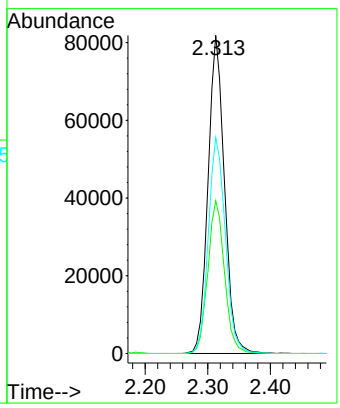
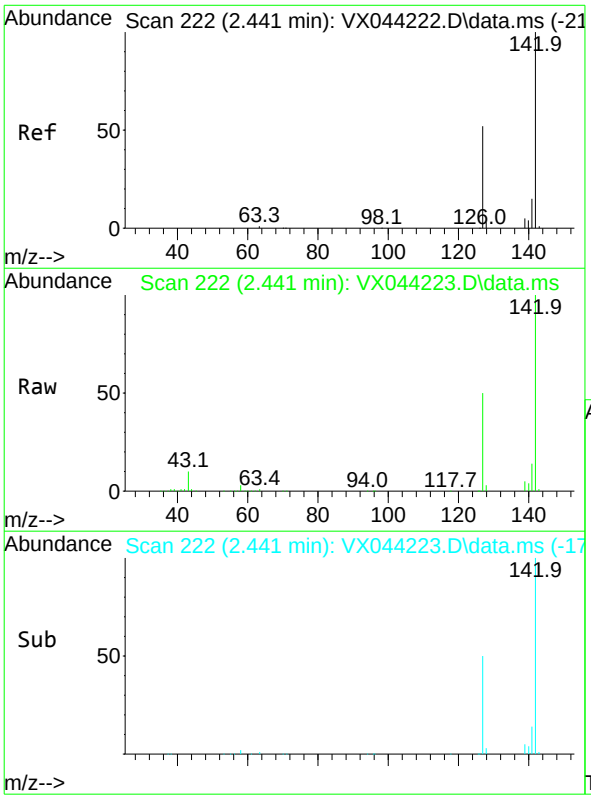
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

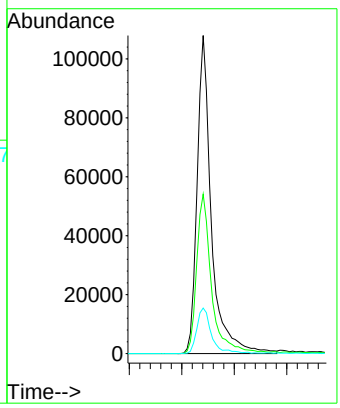


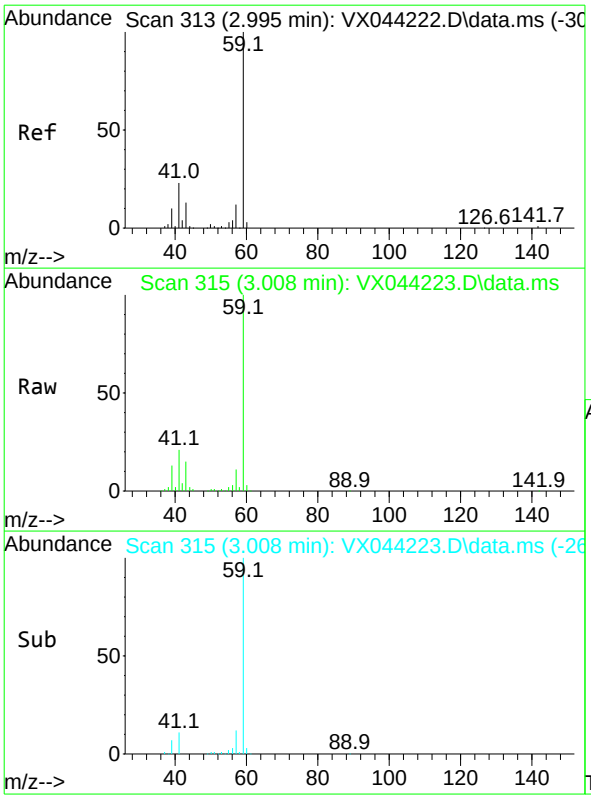


#10
Methyl Iodide
Concen: 97.275 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:142 Resp: 203545

Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.8	62.8
141	14.8	11.5	17.3

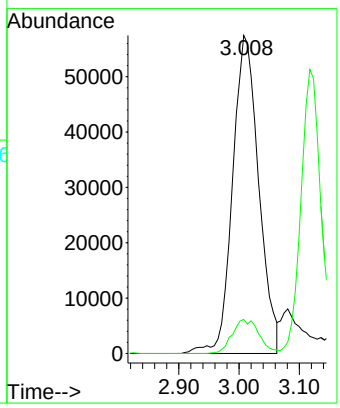




#11
Tert butyl alcohol
Concen: 539.406 ug/l
RT: 3.008 min Scan# 31
Delta R.T. 0.012 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 59 Resp: 173139

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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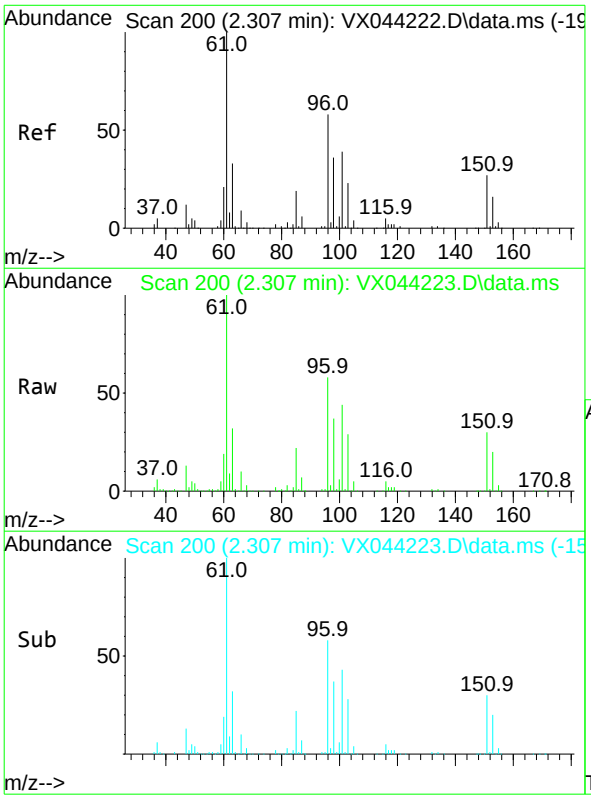
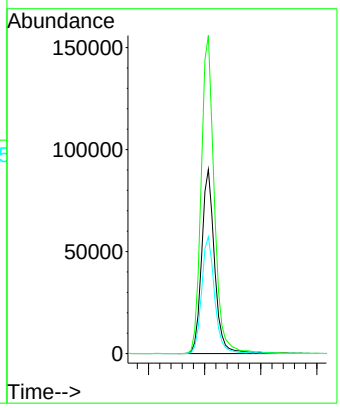
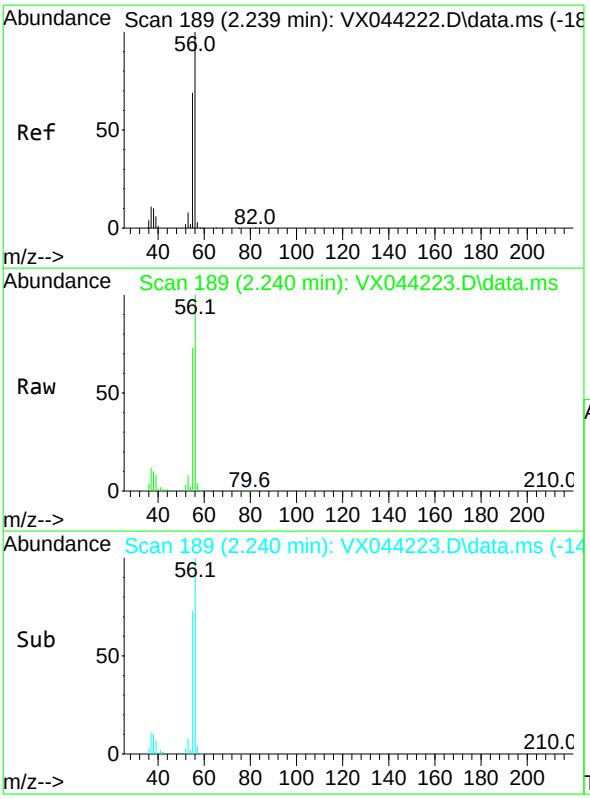


#12
1,1-Dichloroethene
Concen: 98.930 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 144268

Ion	Ratio	Lower	Upper
96	100		
61	172.7	138.0	207.0
98	63.5	50.0	75.0

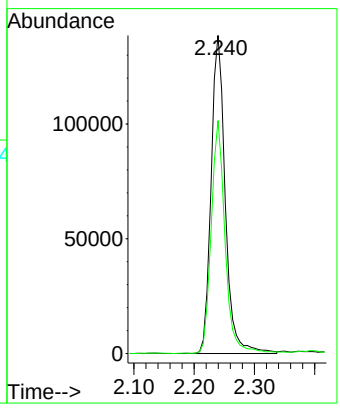




#13
Acrolein
Concen: 485.718 ug/l
RT: 2.240 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 56 Resp: 226037

Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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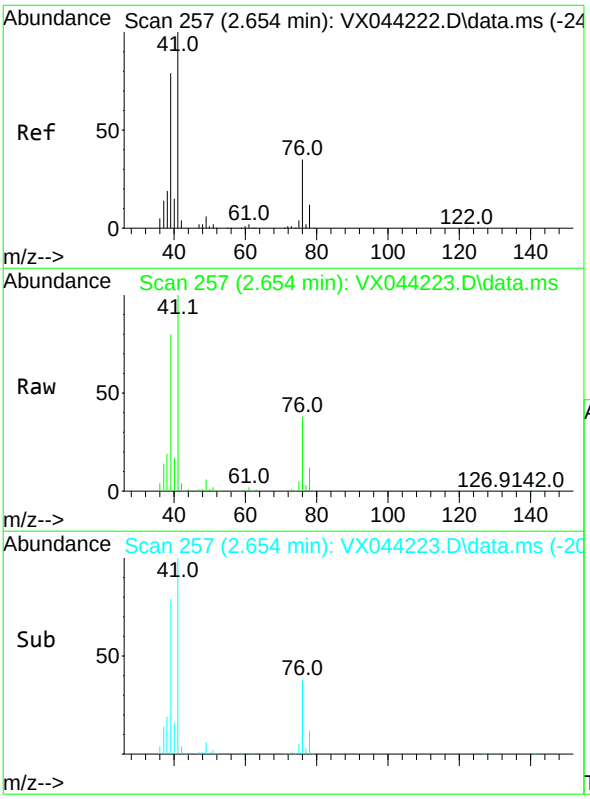
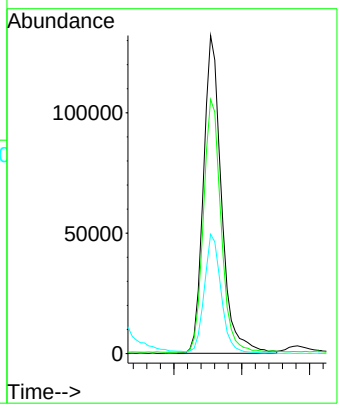
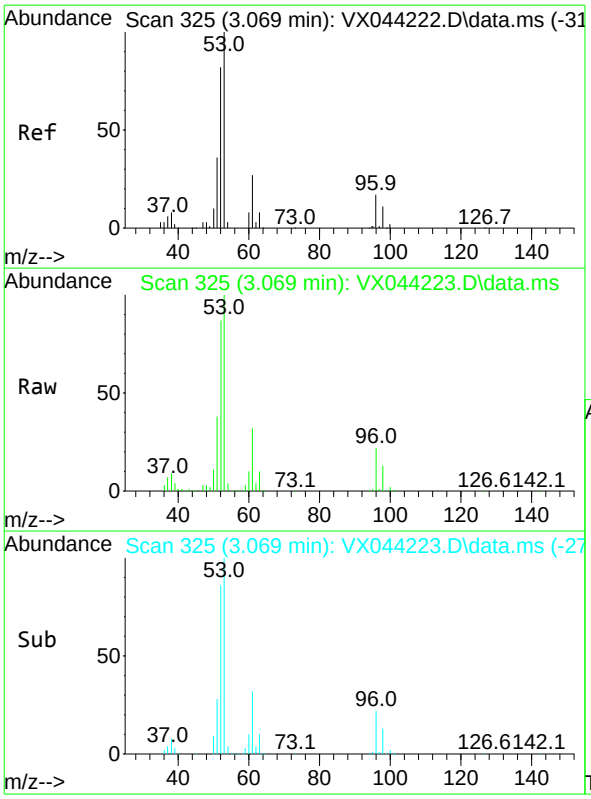


#14
Allyl chloride
Concen: 100.703 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 244602

Ion	Ratio	Lower	Upper
41	100		
39	77.0	61.9	92.9
76	34.7	27.4	41.2

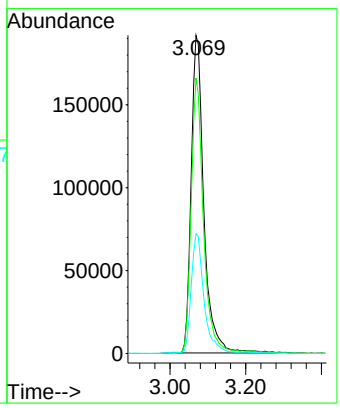




#15
Acrylonitrile
Concen: 501.661 ug/l
RT: 3.069 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 53 Resp: 446747

Ion	Ratio	Lower	Upper
53	100		
52	84.0	67.4	101.0
51	37.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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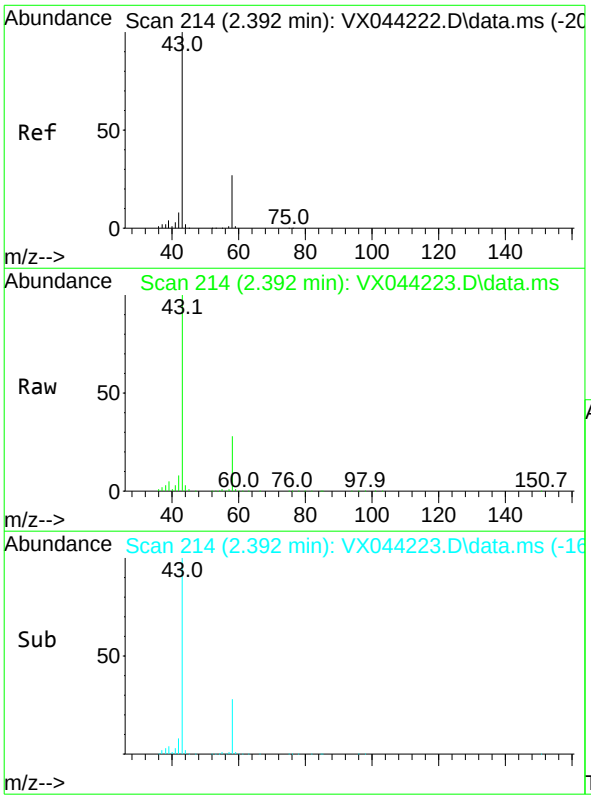
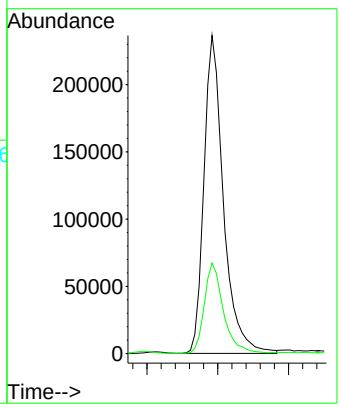
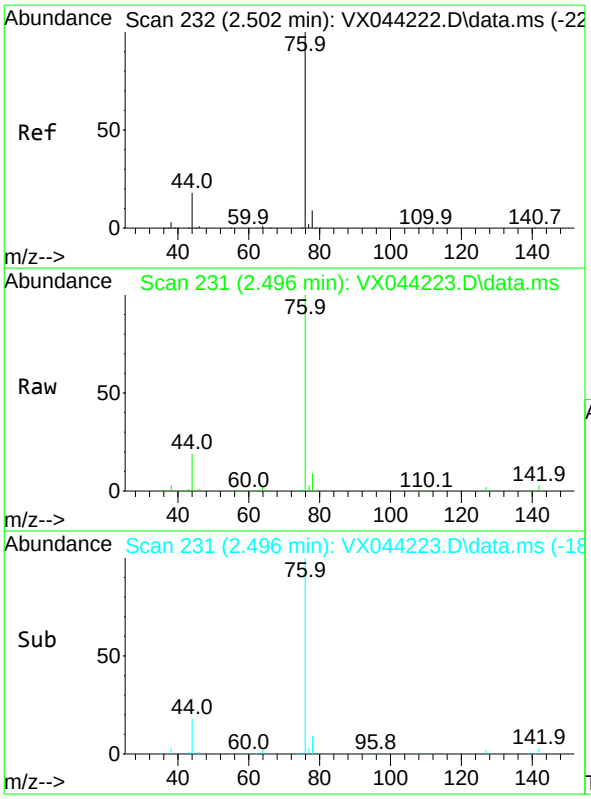


#16
Acetone
Concen: 487.065 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 452955

Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.6	32.4

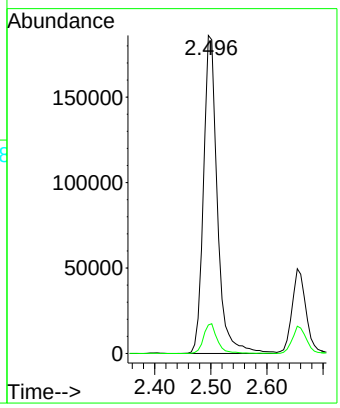




#17
Carbon Disulfide
Concen: 115.453 ug/l
RT: 2.496 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 76 Resp: 320036

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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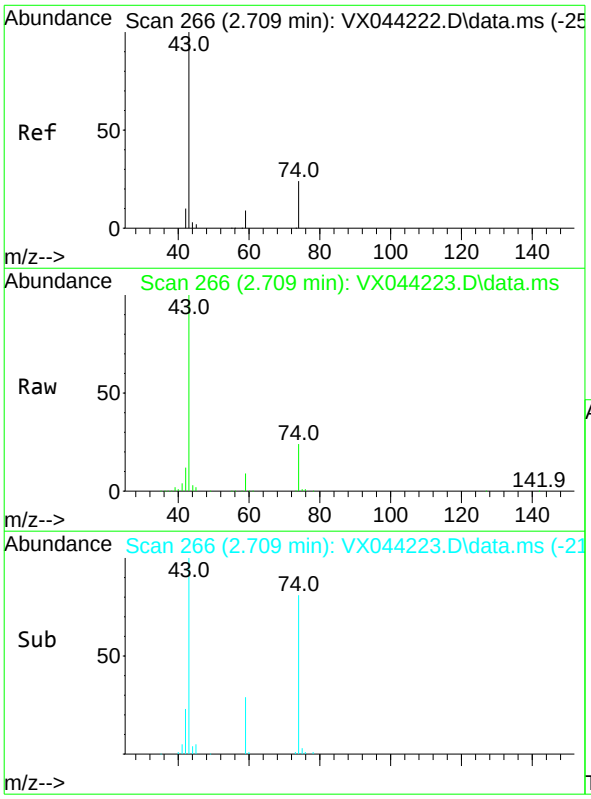
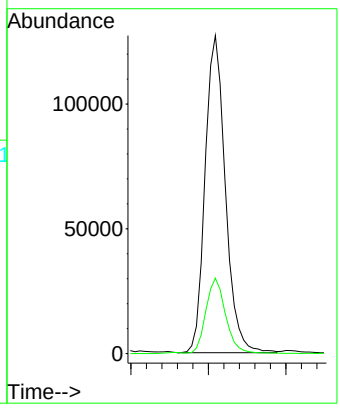
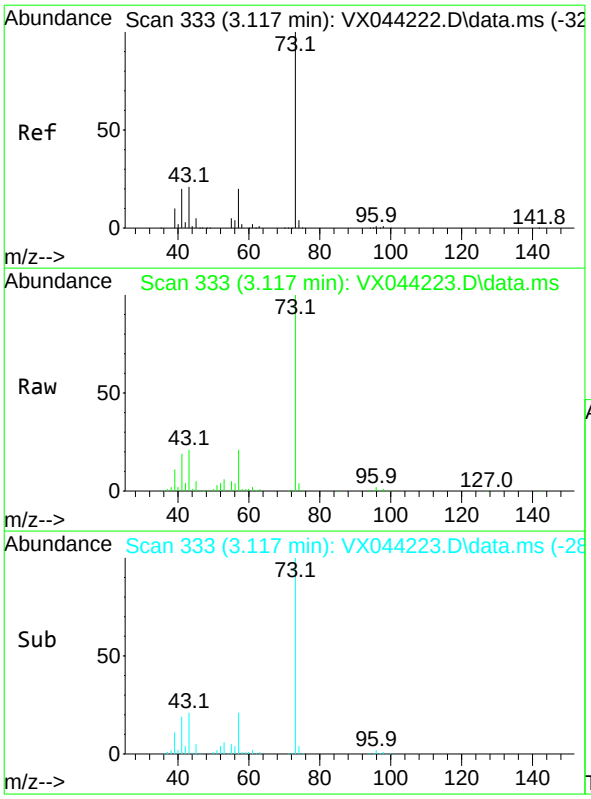


#18
Methyl Acetate
Concen: 96.338 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 230998

Ion	Ratio	Lower	Upper
43	100		
74	23.3	17.7	26.5

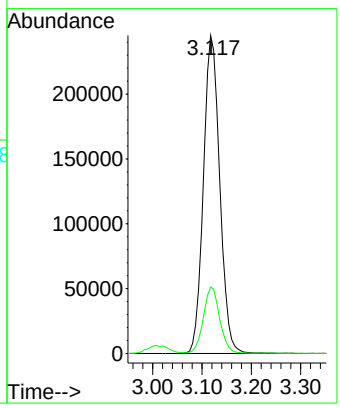




#19
Methyl tert-butyl Ether
Concen: 99.205 ug/l
RT: 3.117 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 73 Resp: 564545

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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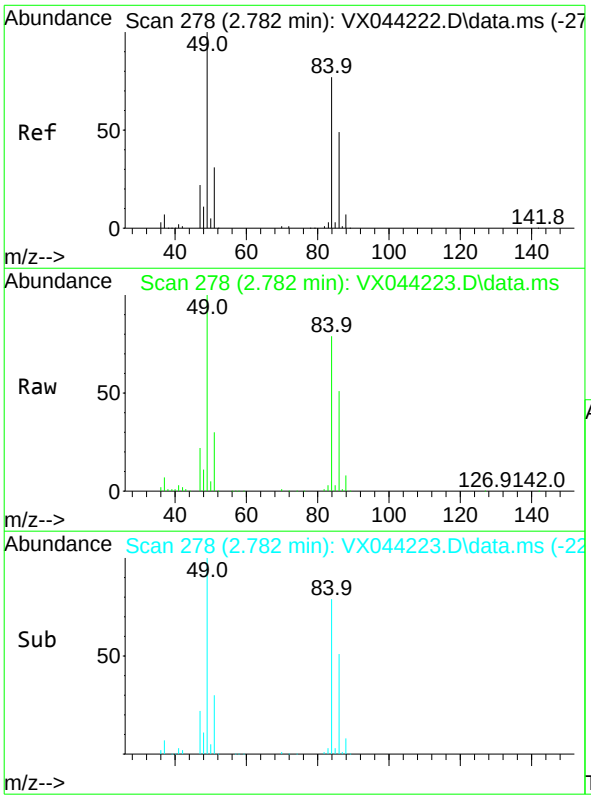
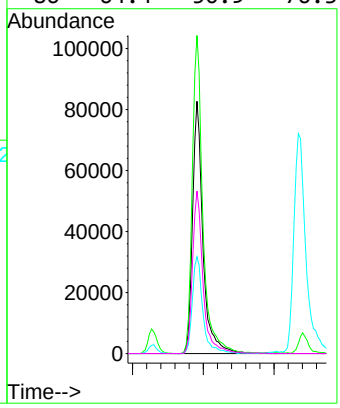
Supervised By :Mahesh Dadoda 12/12/2024

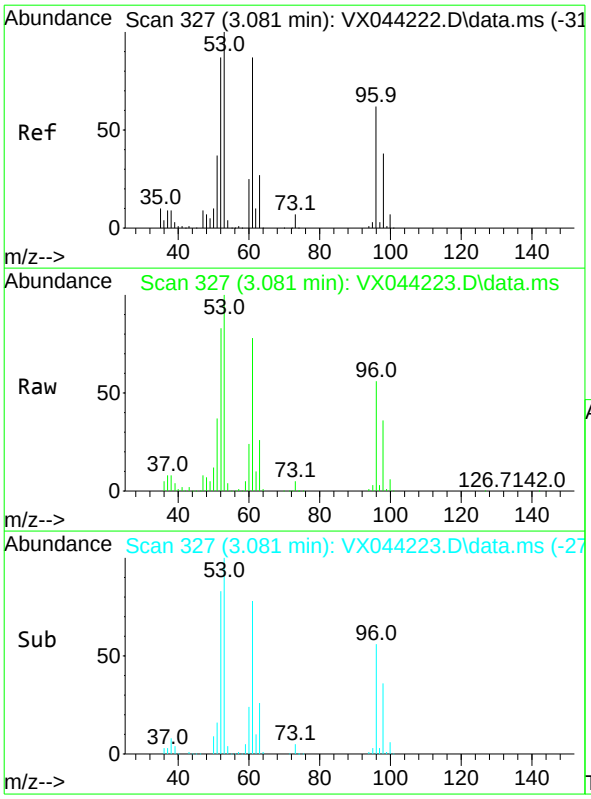


#20
Methylene Chloride
Concen: 96.466 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 84 Resp: 168498

Ion	Ratio	Lower	Upper
84	100		
49	126.1	104.2	156.4
51	38.4	32.2	48.4
86	64.4	50.9	76.3

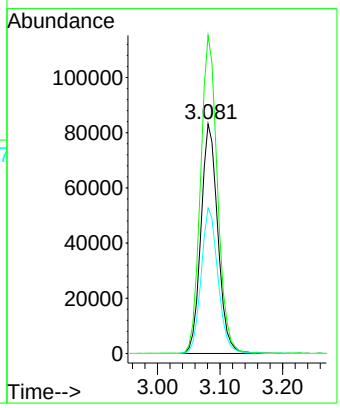




#21
trans-1,2-Dichloroethene
Concen: 99.880 ug/l
RT: 3.081 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 154797

Ion	Ratio	Lower	Upper
96	100		
61	138.4	112.0	168.0
98	63.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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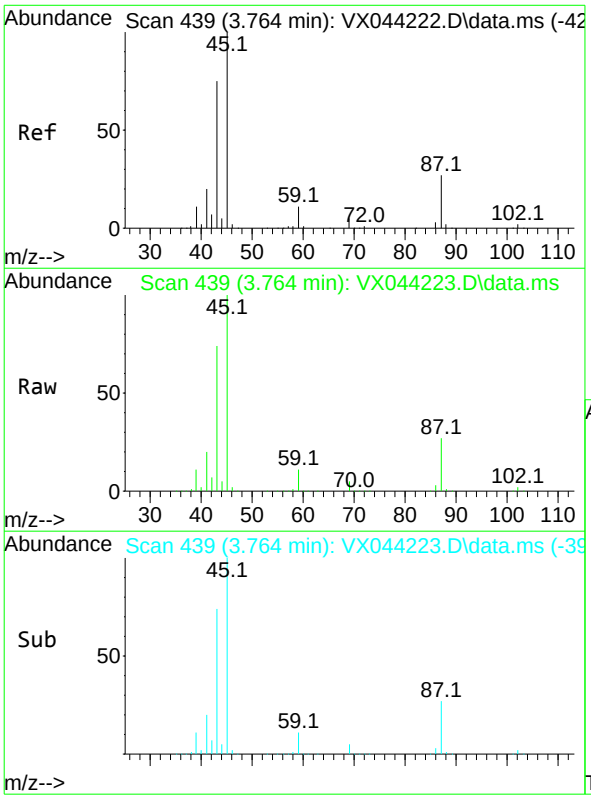
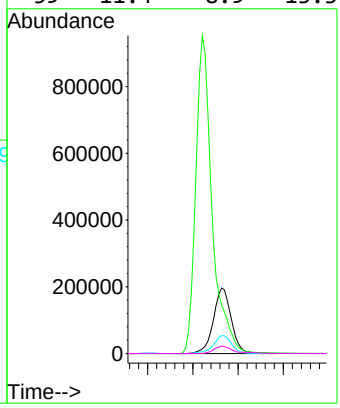
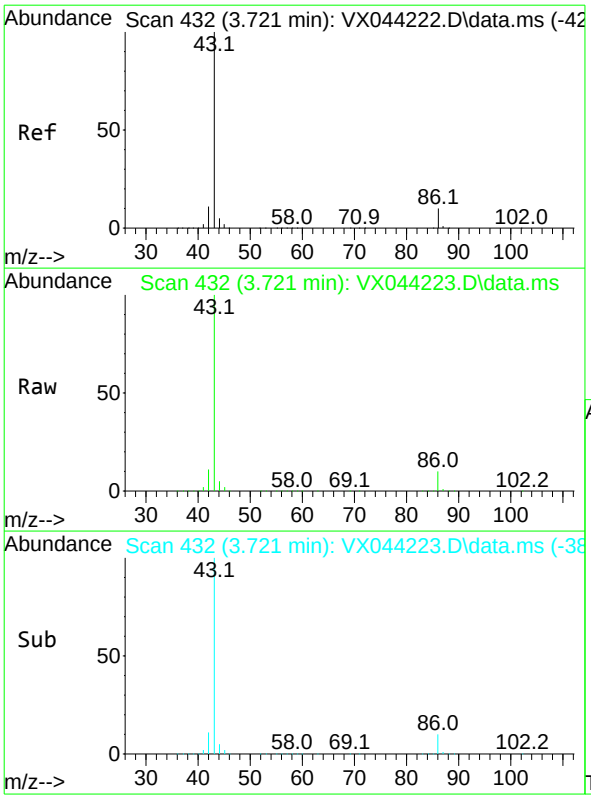


#22
Diisopropyl ether
Concen: 98.498 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 45 Resp: 538742

Ion	Ratio	Lower	Upper
45	100		
43	74.2	60.2	90.2
87	27.4	21.2	31.8
59	11.4	8.9	13.3

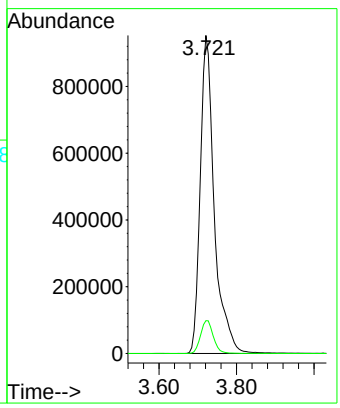




#23
Vinyl Acetate
Concen: 538.801 ug/l
RT: 3.721 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 2395923

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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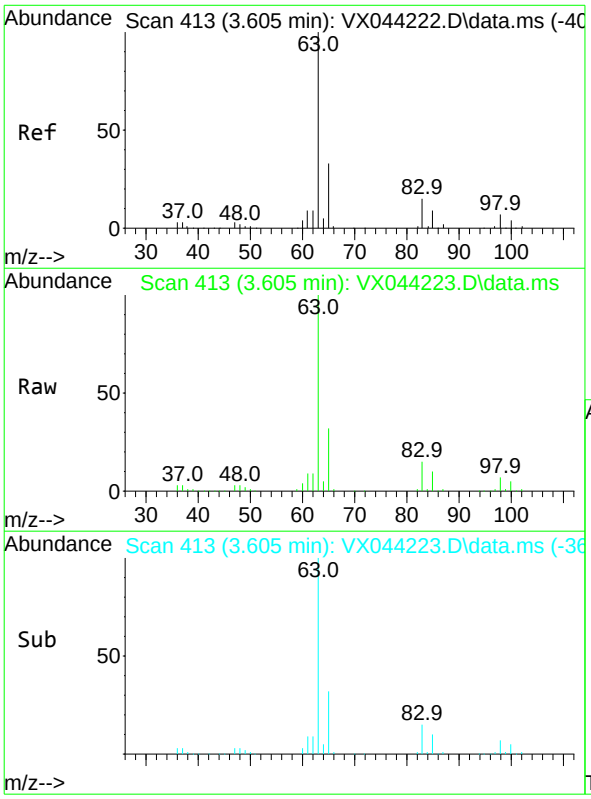
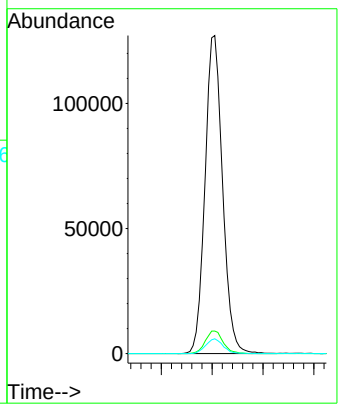
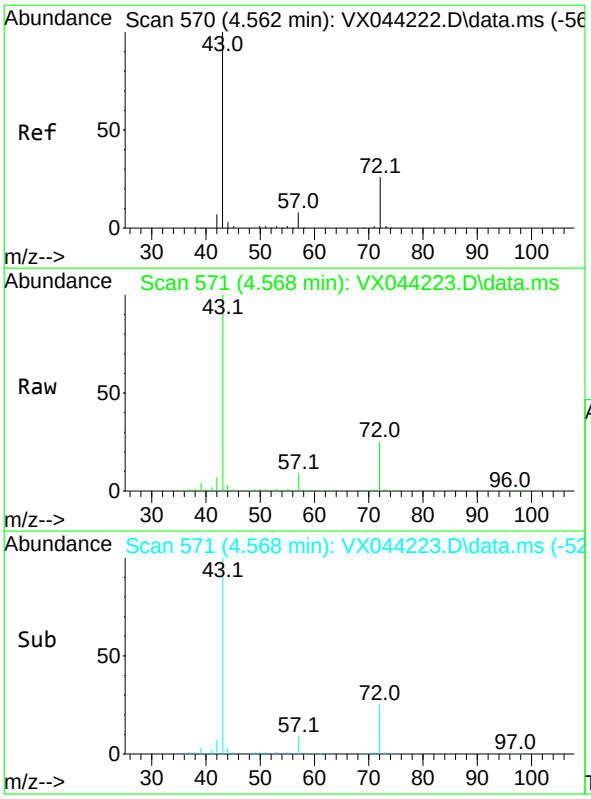


#24
1,1-Dichloroethane
Concen: 99.915 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 304626

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.6	10.8
100	4.6	2.1	6.3

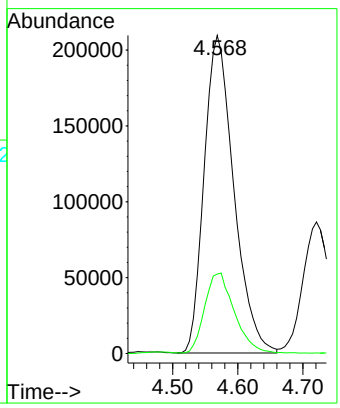




#25
2-Butanone
Concen: 501.306 ug/l
RT: 4.568 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 662768

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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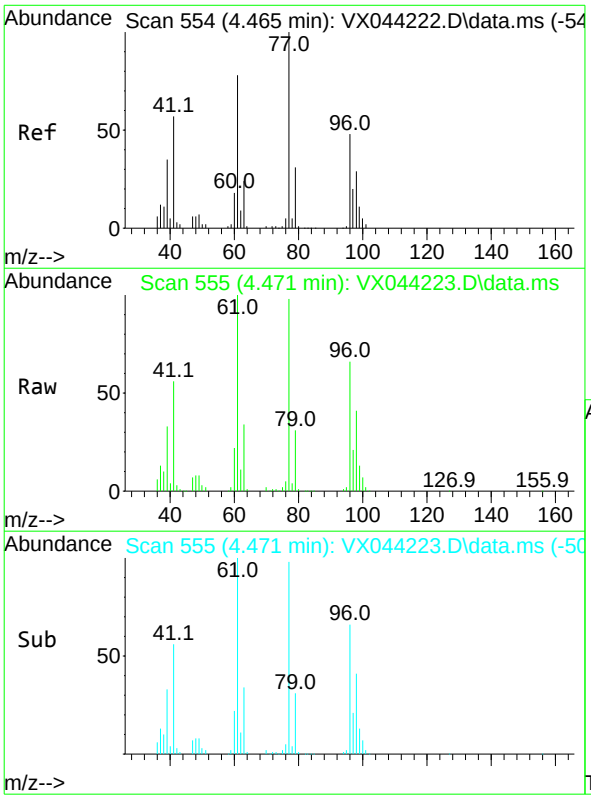
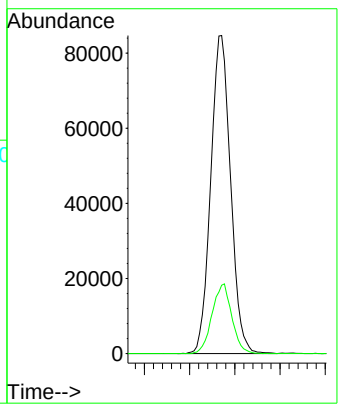
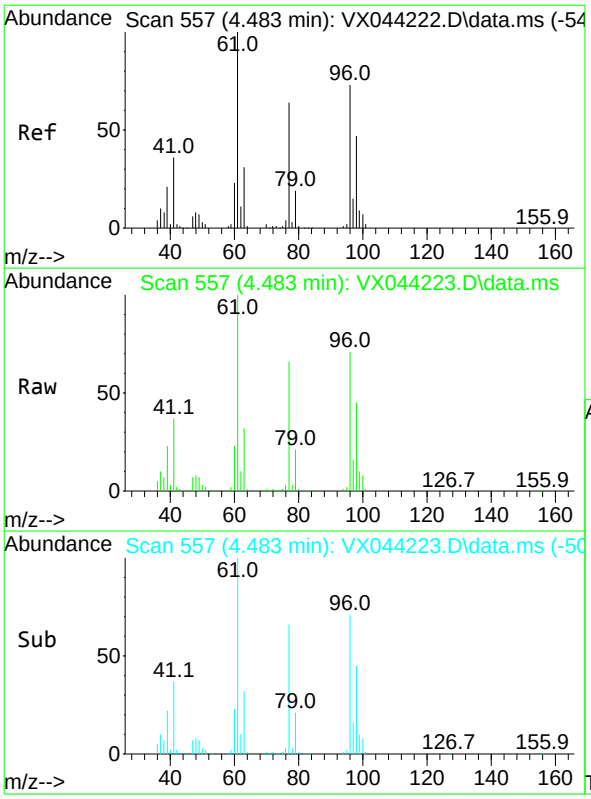


#26
2,2-Dichloropropane
Concen: 104.201 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 77 Resp: 258092

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.7	32.1

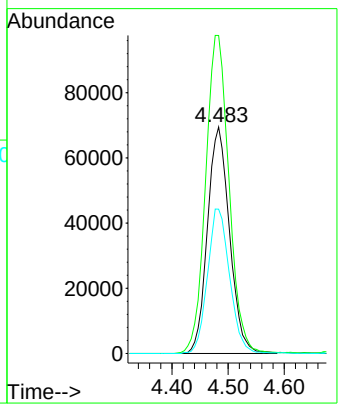




#27
cis-1,2-Dichloroethene
Concen: 96.593 ug/l
RT: 4.483 min Scan# 55
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 190127

Ion	Ratio	Lower	Upper
96	100		
61	148.5	0.0	299.0
98	64.2	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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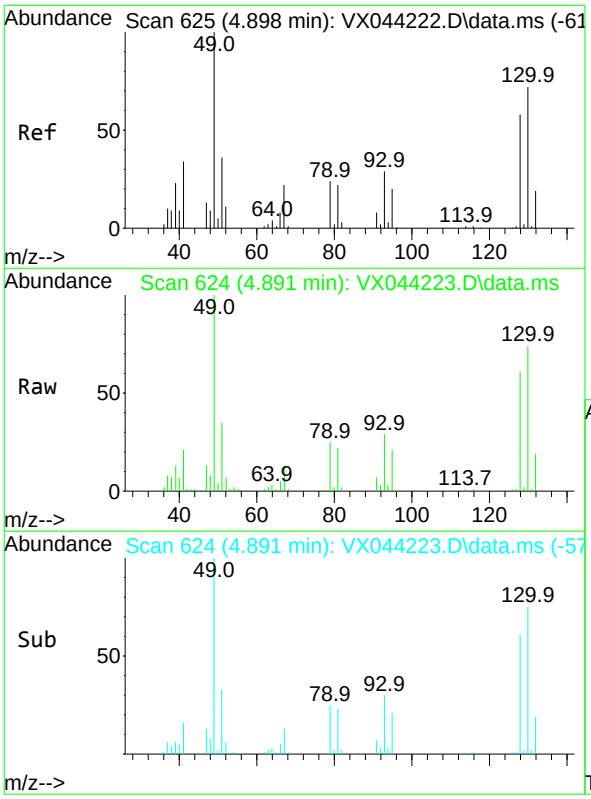
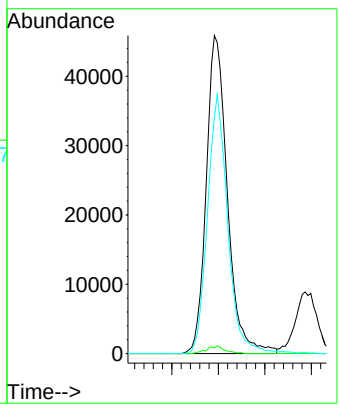
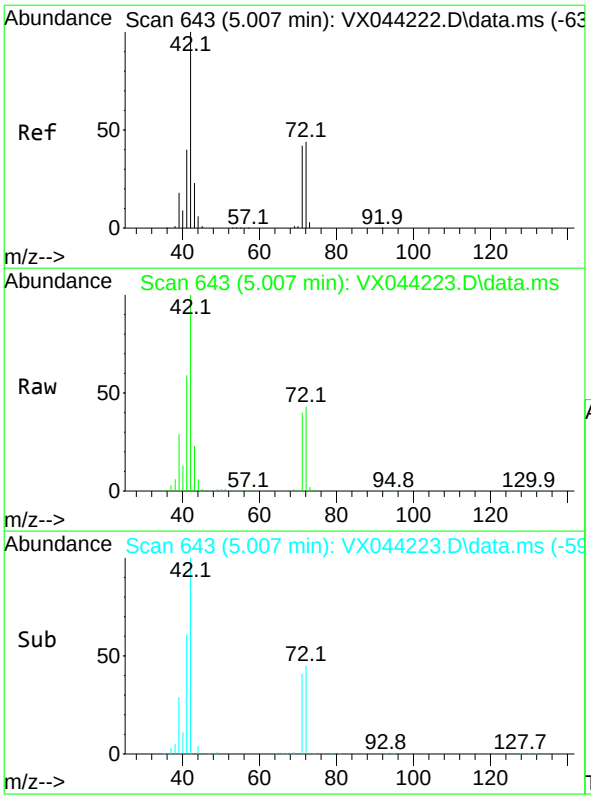


#28
Bromochloromethane
Concen: 96.842 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 49 Resp: 144783

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	78.2	62.1	93.1

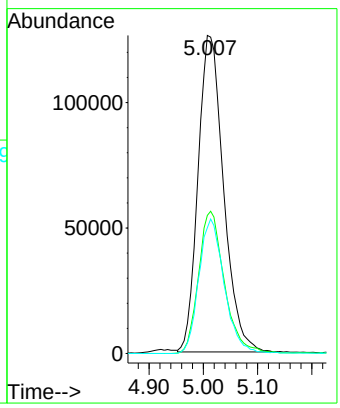




#29
Tetrahydrofuran
Concen: 486.290 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 42 Resp: 412666

Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.0	55.6
71	42.1	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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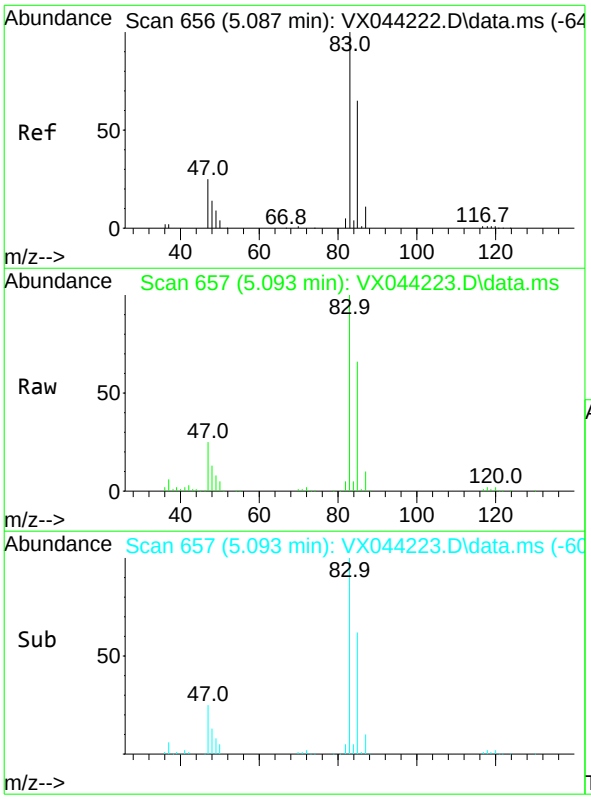
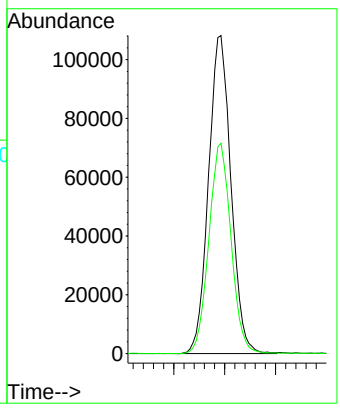
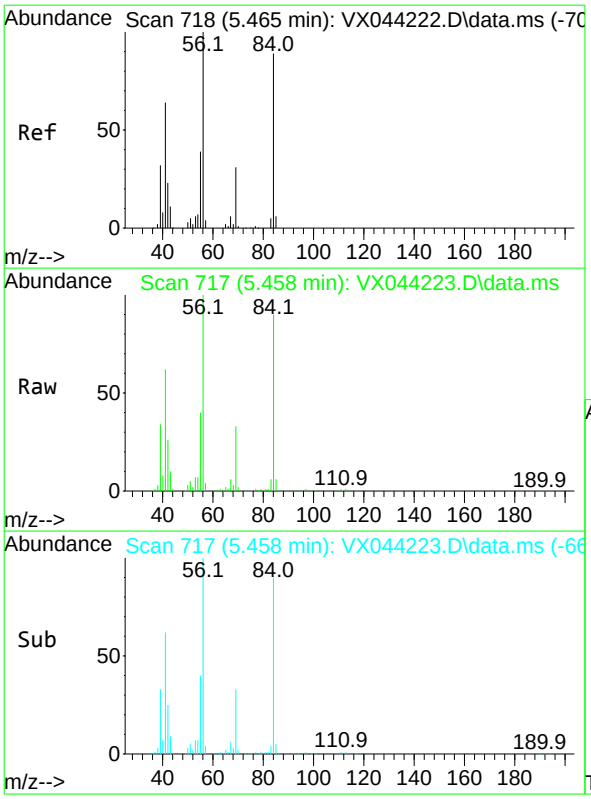


#30
Chloroform
Concen: 96.642 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 331047

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.6	77.4

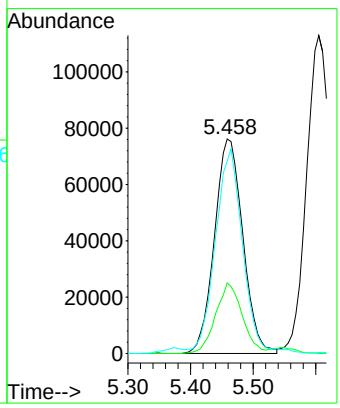




#31
Cyclohexane
Concen: 97.433 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 56 Resp: 239879

Ion	Ratio	Lower	Upper
56	100		
69	32.8	24.7	37.1
84	87.3	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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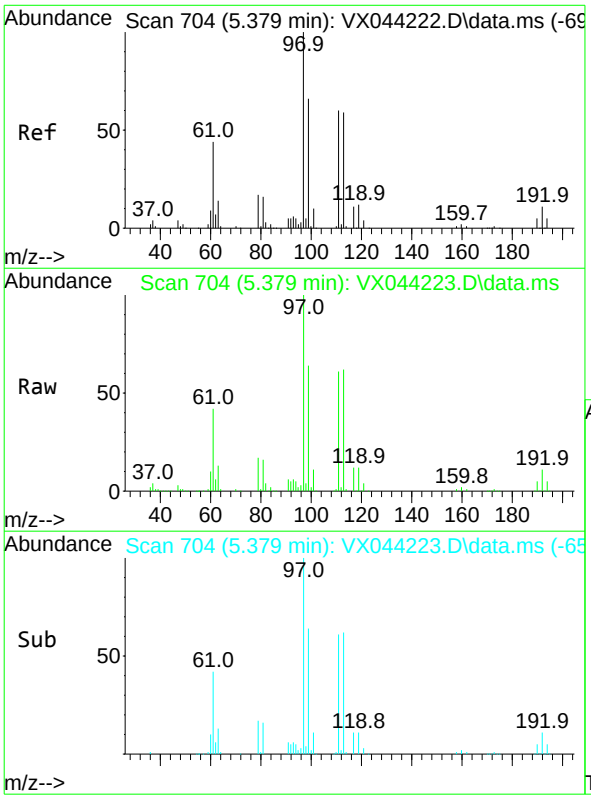
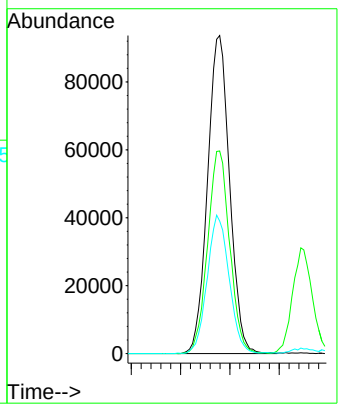
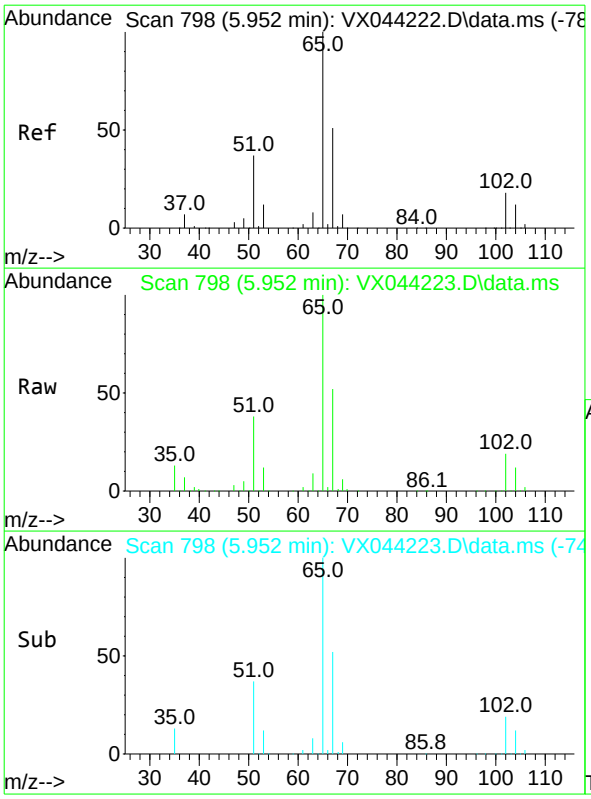


#32
1,1,1-Trichloroethane
Concen: 102.363 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 97 Resp: 291065

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.8	76.2
61	43.3	35.2	52.8

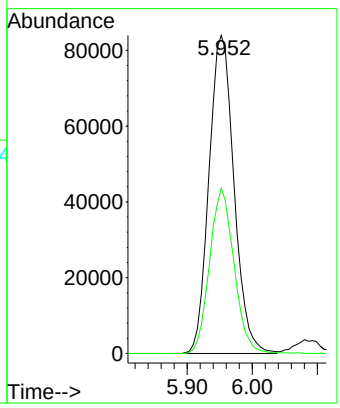




#33
1,2-Dichloroethane-d4
Concen: 98.326 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 65 Resp: 224292

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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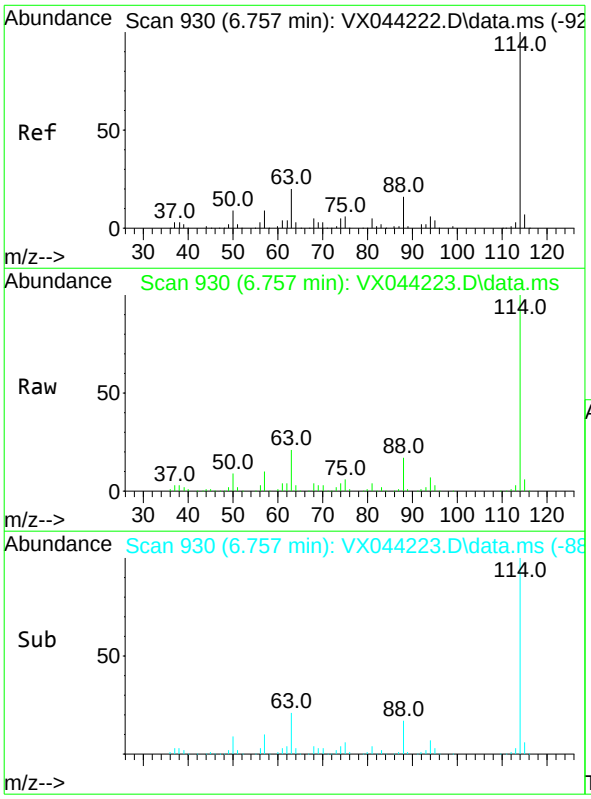
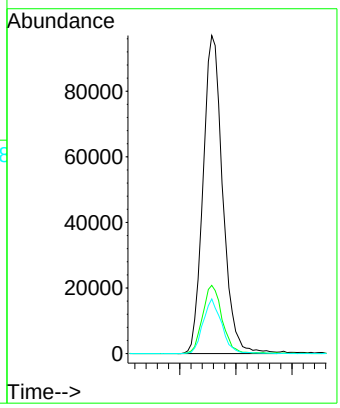
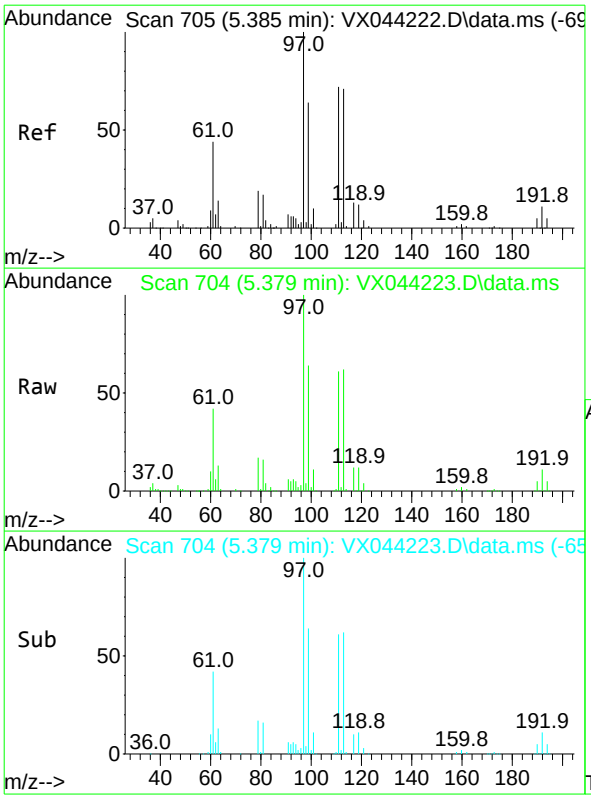


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:114 Resp: 235738

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	40.6
88	17.2	0.0	31.8

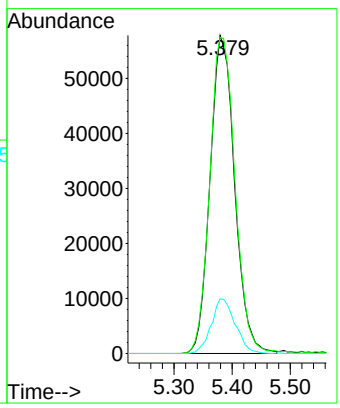




#35
Dibromofluoromethane
Concen: 103.866 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:113 Resp: 169582

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.4	120.6
192	16.7	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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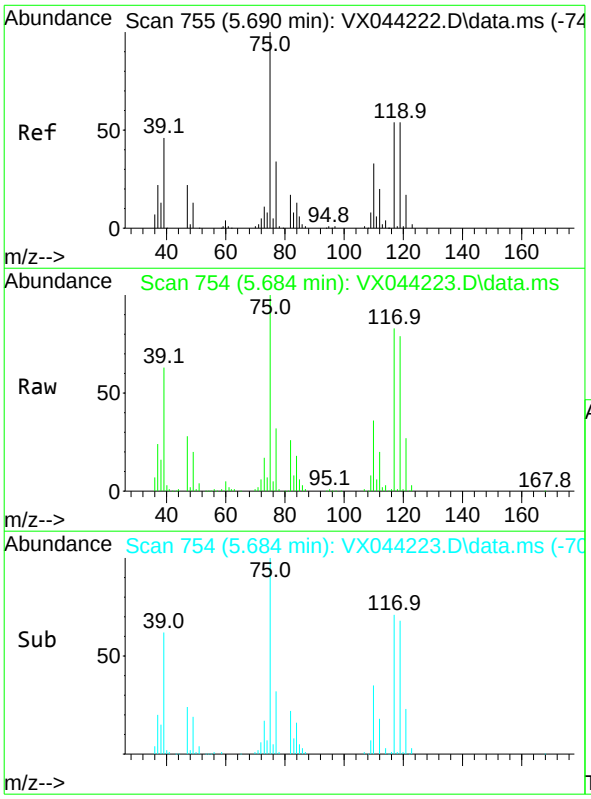
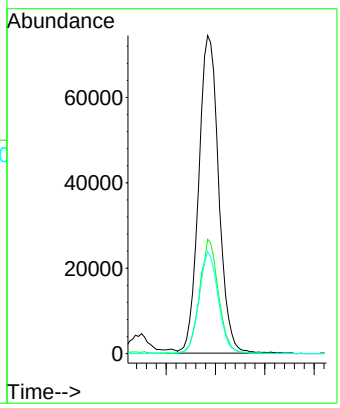
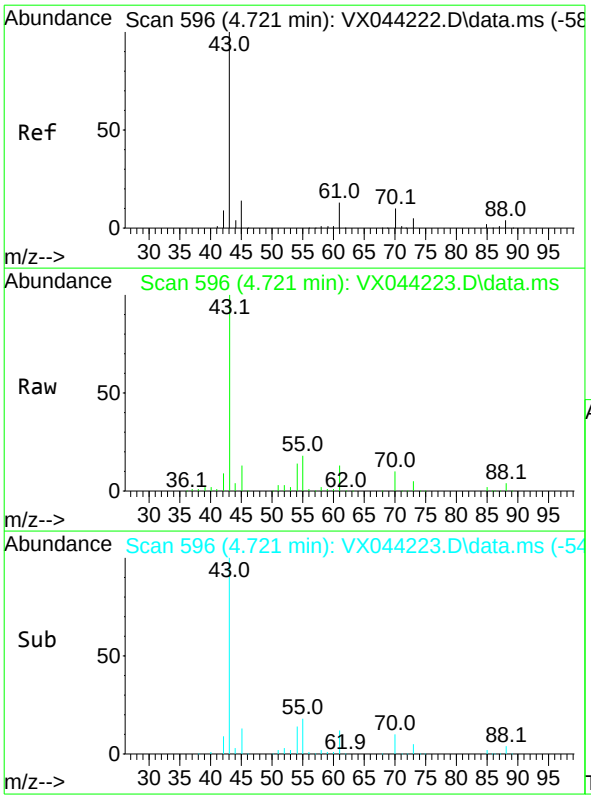


#36
1,1-Dichloropropene
Concen: 99.376 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 209732

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.3	51.7
77	30.6	25.4	38.0

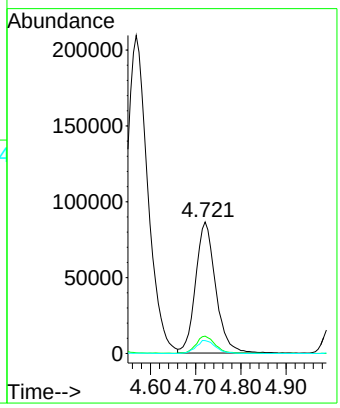




#37
Ethyl Acetate
Concen: 102.079 ug/l
RT: 4.721 min Scan# 59
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 266307

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.5	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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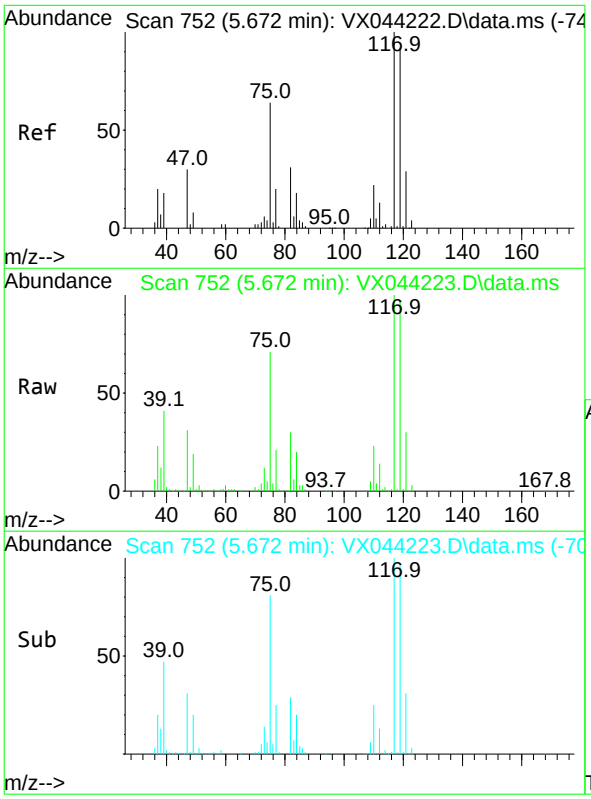
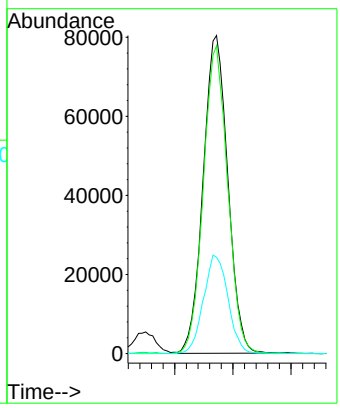
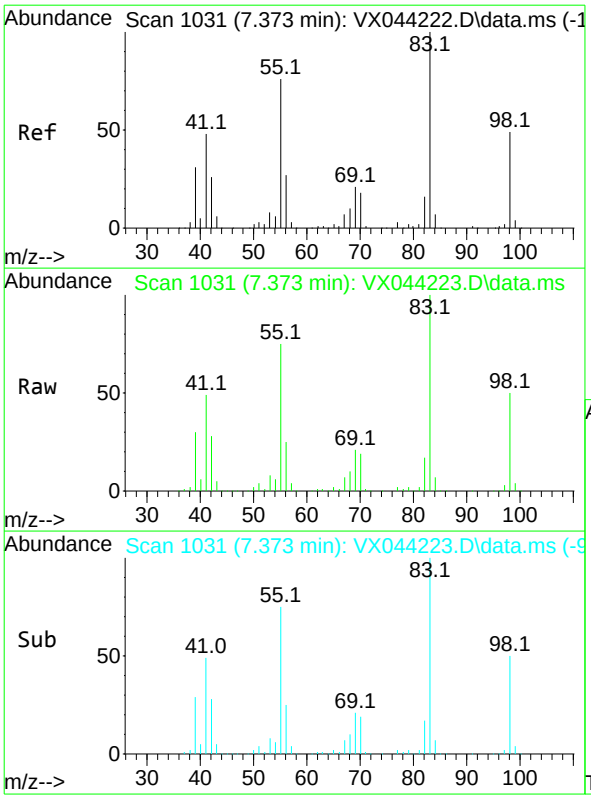


#38
Carbon Tetrachloride
Concen: 104.249 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 236869

Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.2	111.4
121	30.4	23.0	34.6

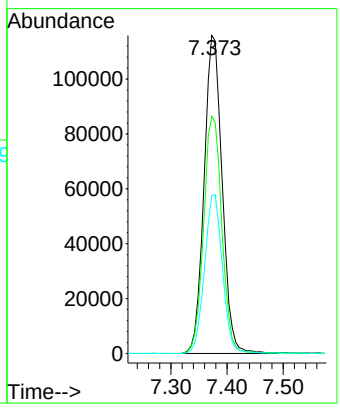




#39
Methylcyclohexane
Concen: 102.800 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 259368

Ion	Ratio	Lower	Upper
83	100		
55	74.5	60.7	91.1
98	49.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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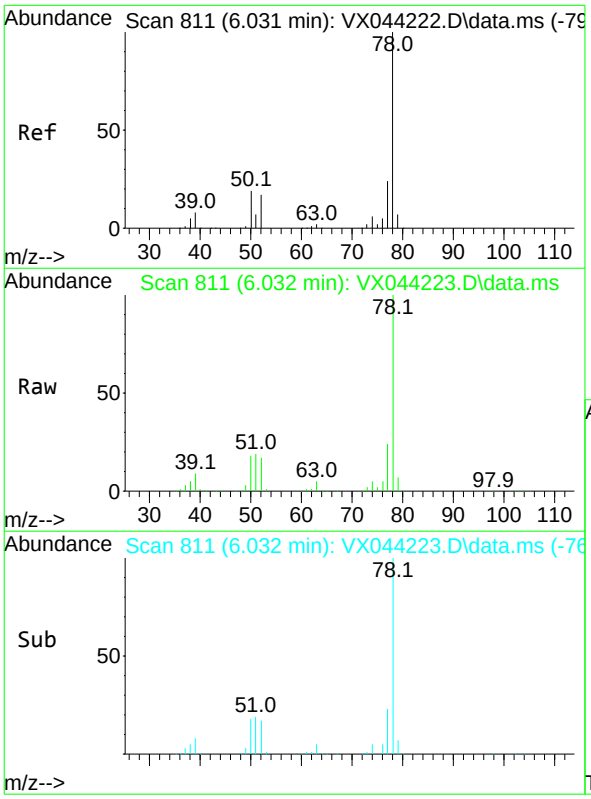
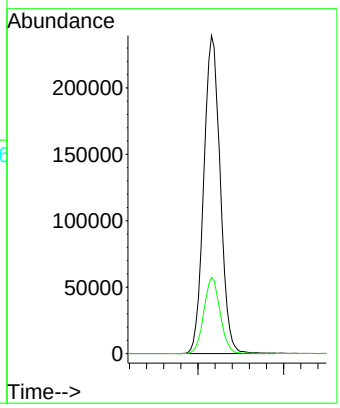
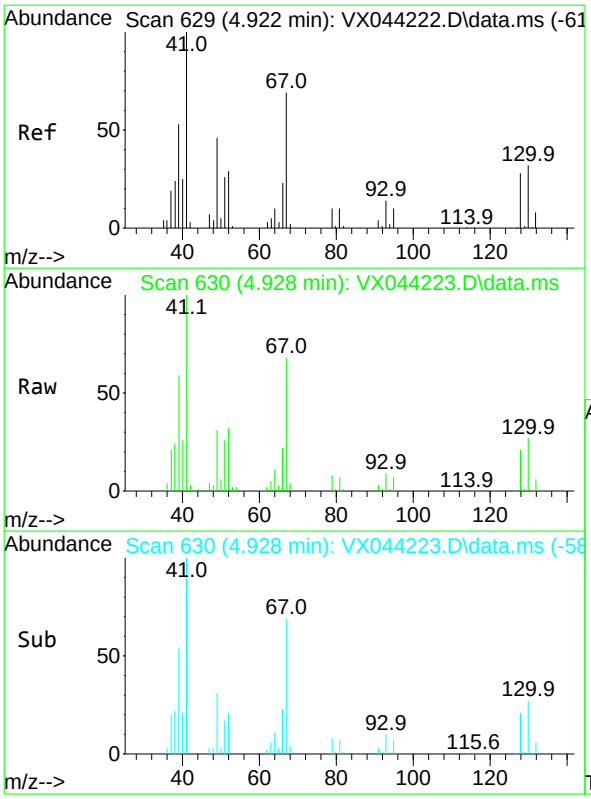


#40
Benzene
Concen: 99.575 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 78 Resp: 638055

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9

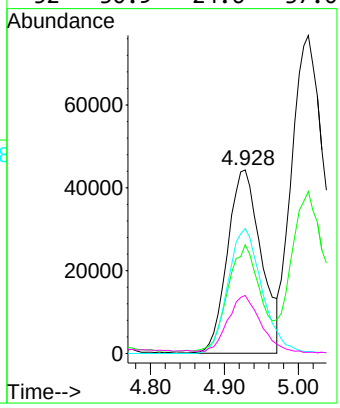




#41
Methacrylonitrile
Concen: 101.332 ug/l
RT: 4.928 min Scan# 63
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 140375

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.2	66.4
67	69.1	57.2	85.8
52	30.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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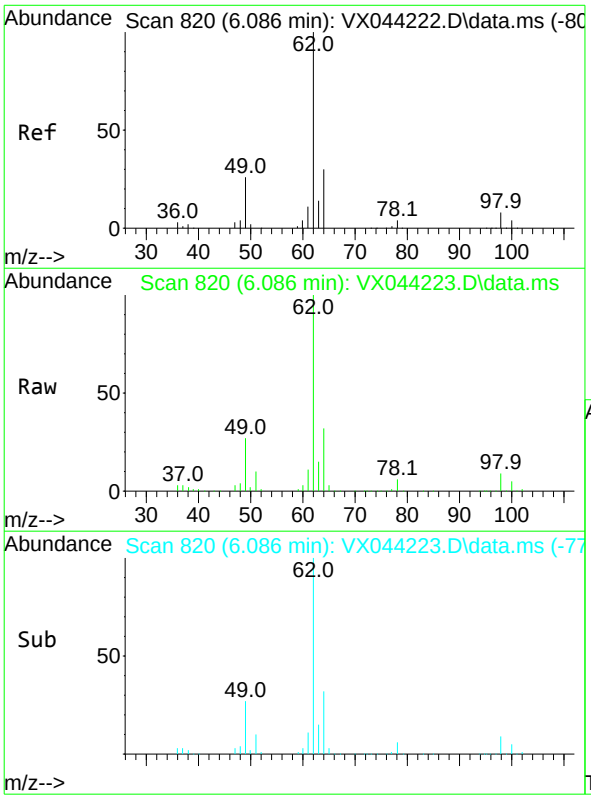
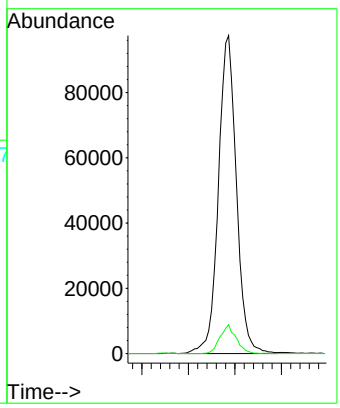
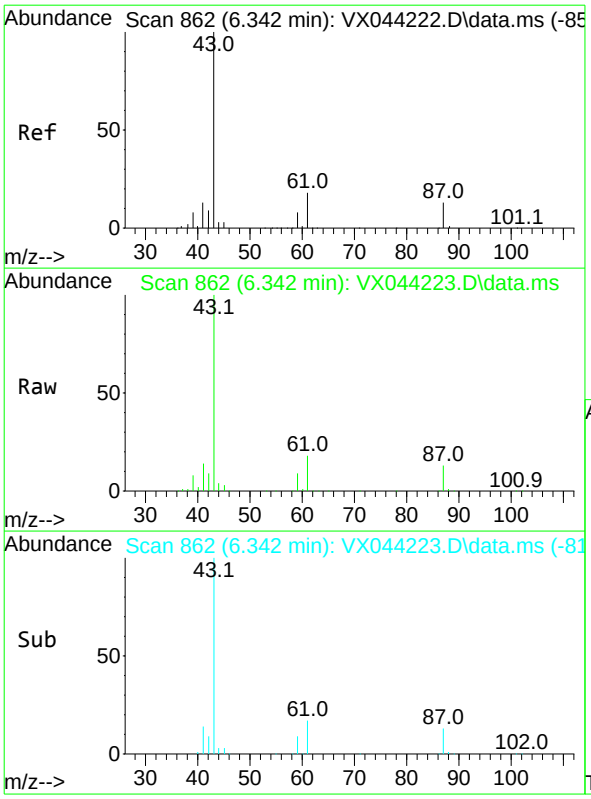


#42
1,2-Dichloroethane
Concen: 99.255 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 261991

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	15.8

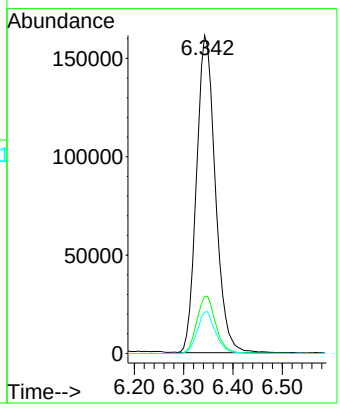




#43
Isopropyl Acetate
Concen: 104.939 ug/l
RT: 6.342 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 427893

Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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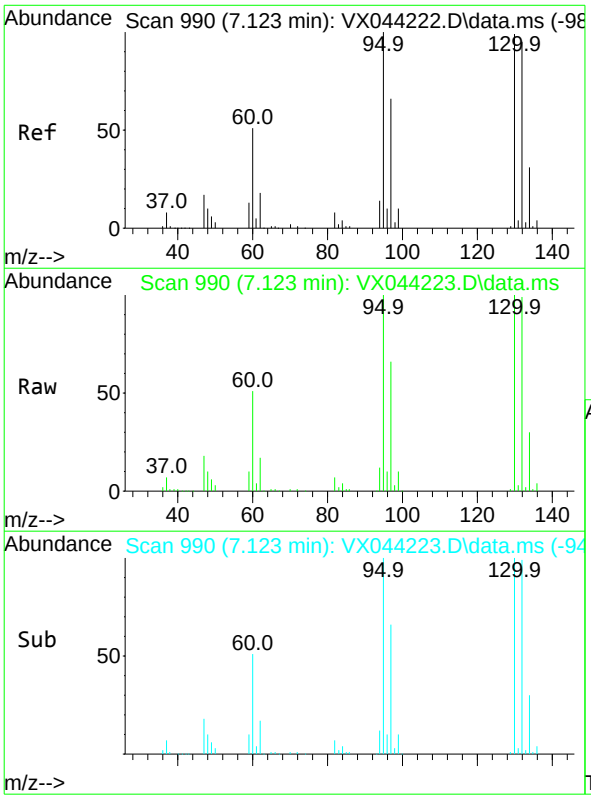
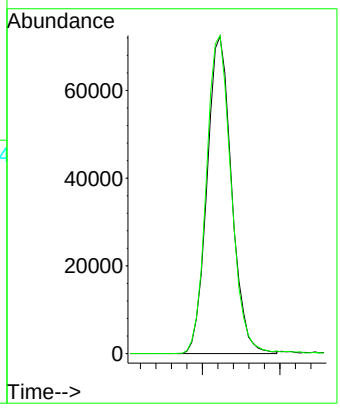
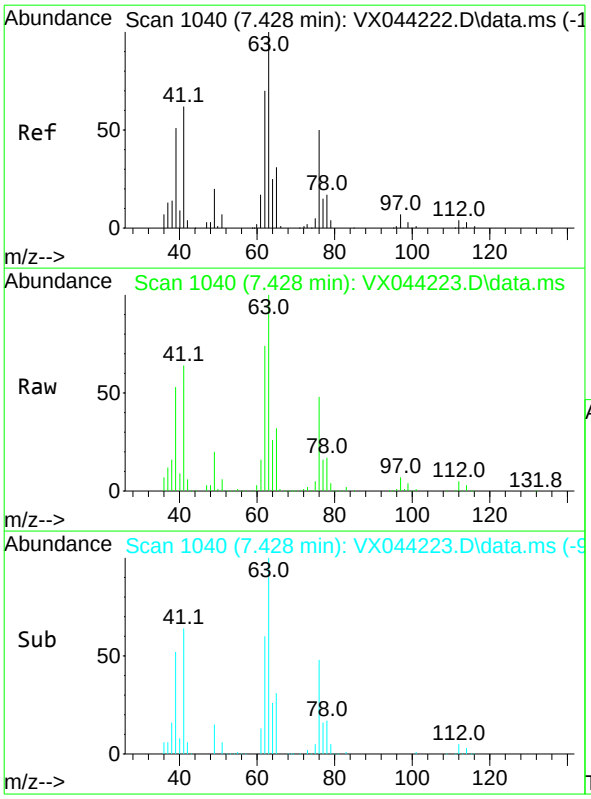


#44
Trichloroethene
Concen: 99.497 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:130 Resp: 158990

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	201.4

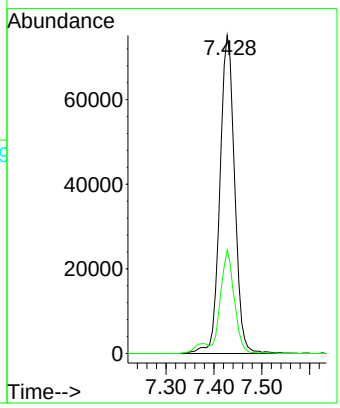




#45
1,2-Dichloropropane
Concen: 98.293 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 160913

Ion	Ratio	Lower	Upper
63	100		
65	32.5	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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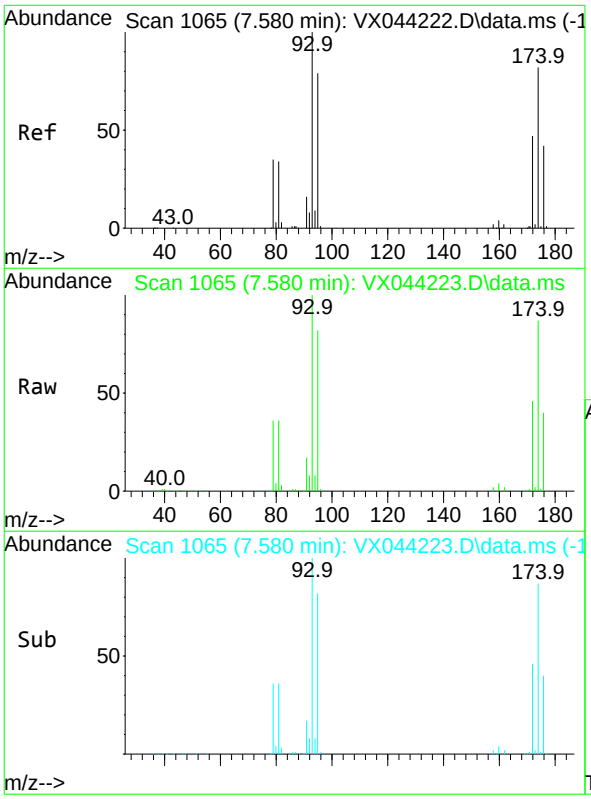
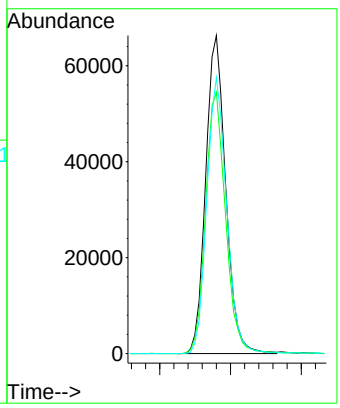
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

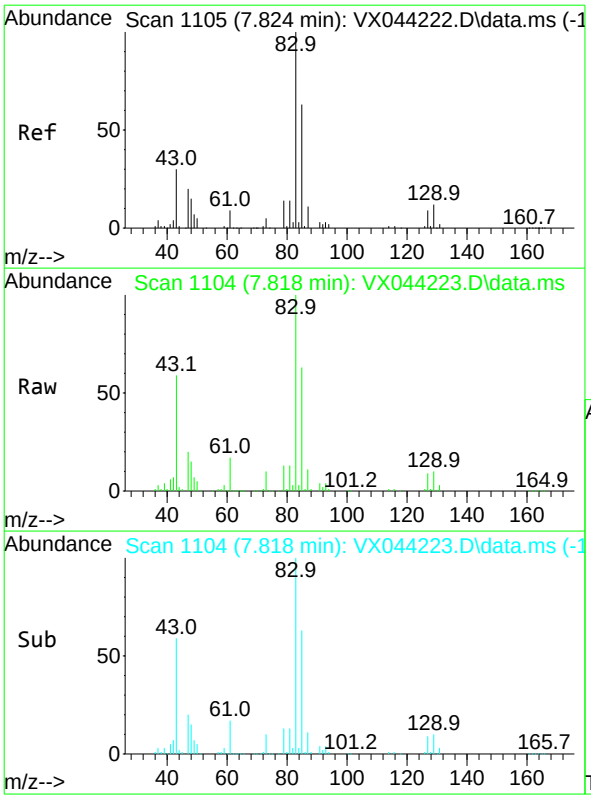


#46
Dibromomethane
Concen: 102.607 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 93 Resp: 130316

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.4	98.2
174	86.1	67.9	101.9

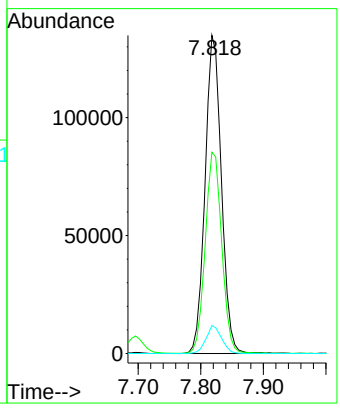




#47
Bromodichloromethane
Concen: 111.423 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 244401

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.8	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :John Carlone 12/12/2024
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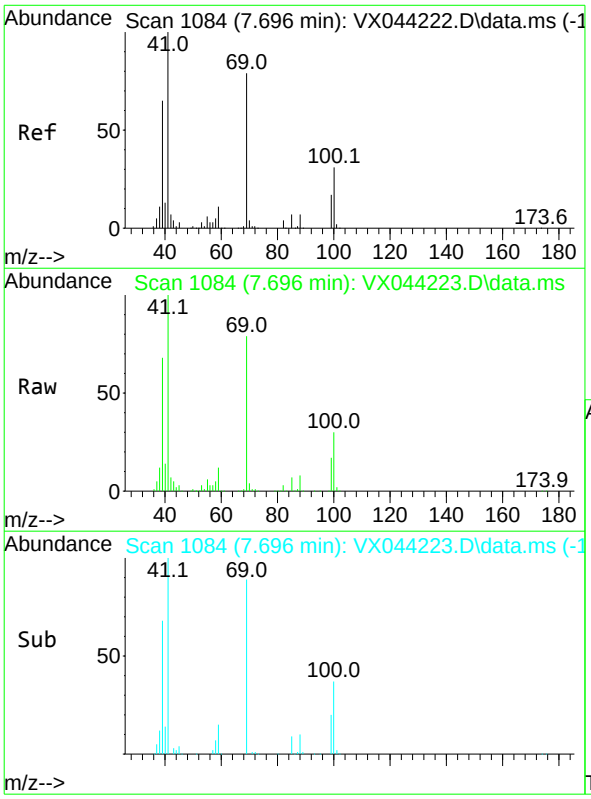
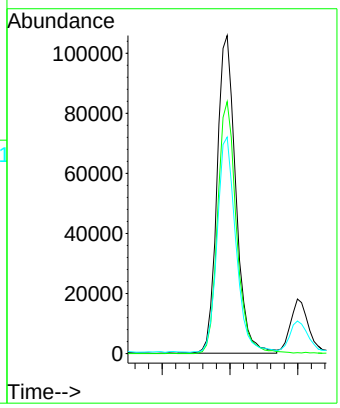
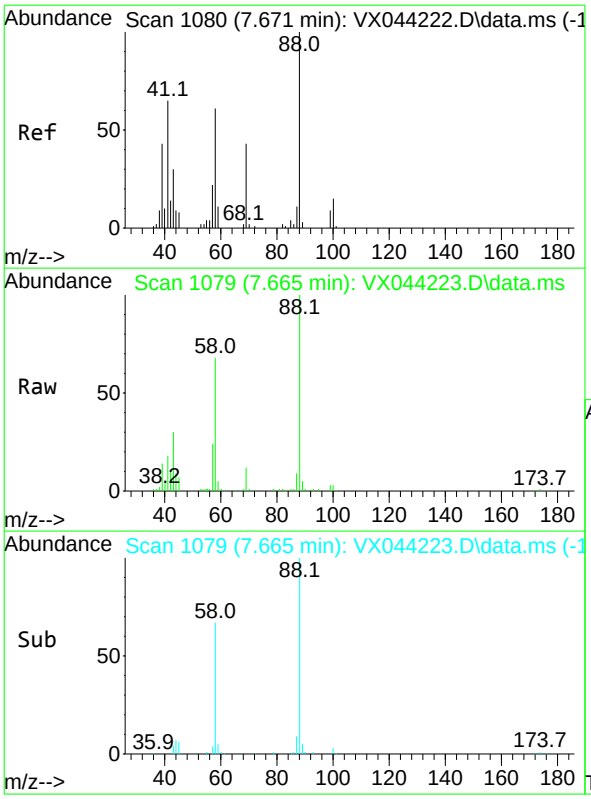


#48
Methyl methacrylate
Concen: 102.618 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 203116

Ion	Ratio	Lower	Upper
41	100		
69	79.5	62.4	93.6
39	67.4	53.3	79.9

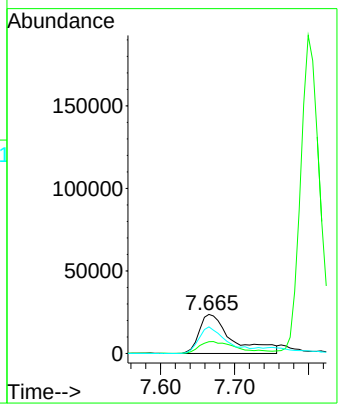




#49
1,4-Dioxane
Concen: 2170.871 ug/l m
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 88 Resp: 73434

Ion	Ratio	Lower	Upper
88	100		
43	34.9	27.1	40.7
58	57.8	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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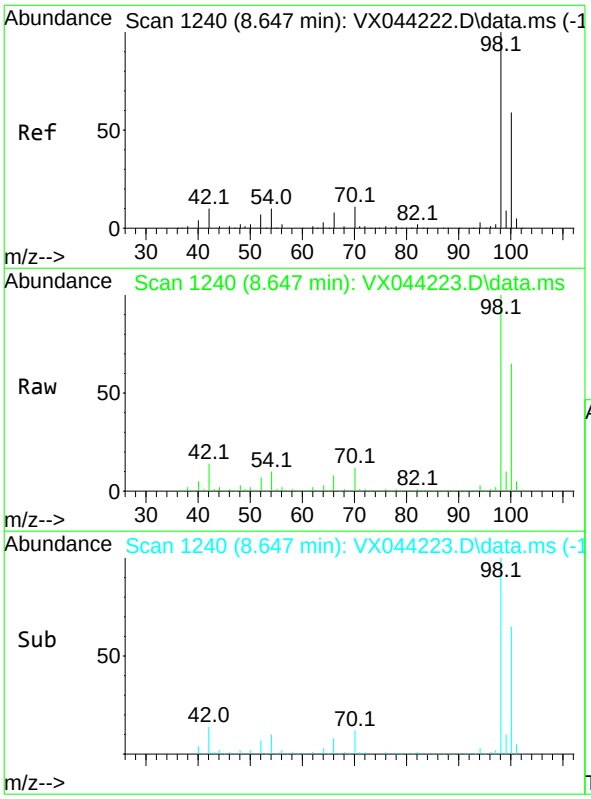
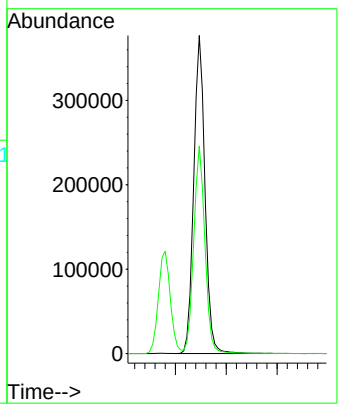
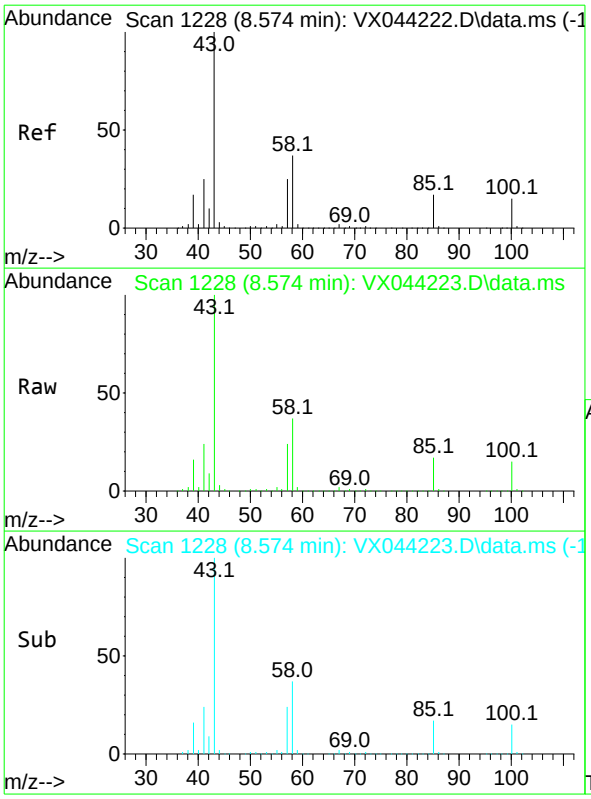


#50
Toluene-d8
Concen: 105.201 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 98 Resp: 579477

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3

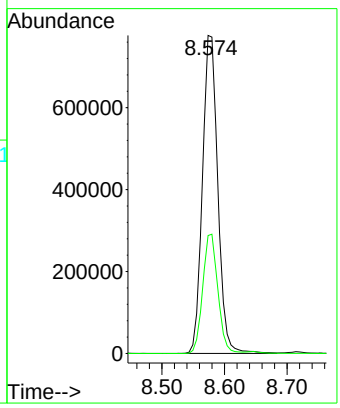




#51
4-Methyl-2-Pentanone
Concen: 504.496 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 1322678

Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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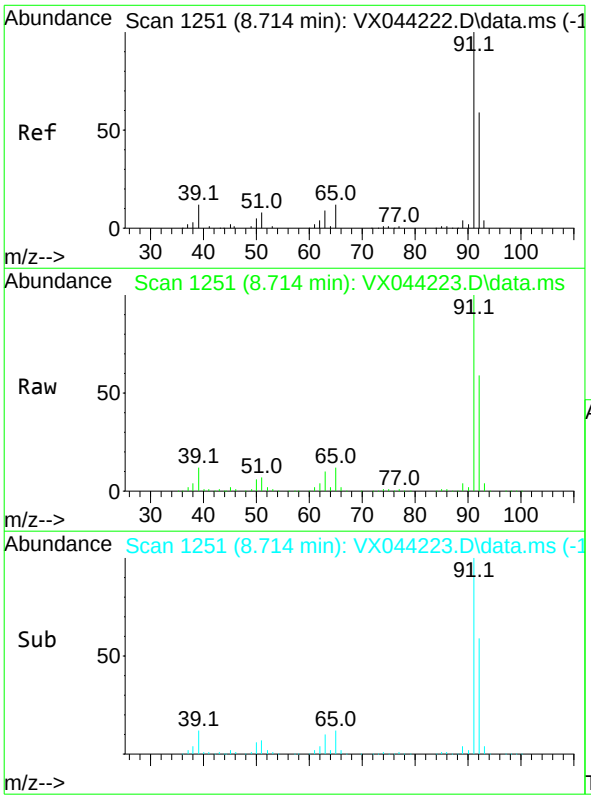
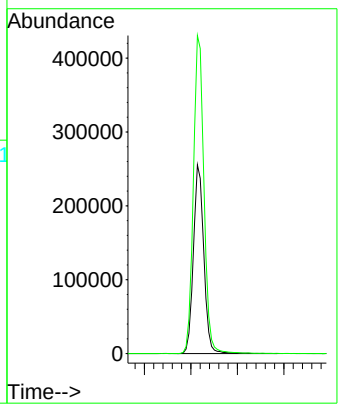
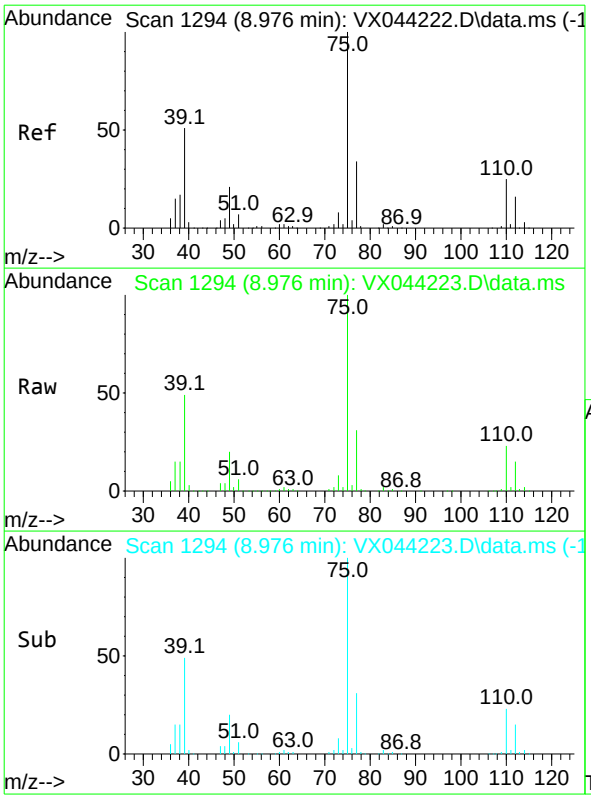


#52
Toluene
Concen: 98.506 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 92 Resp: 396383

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.0	205.6

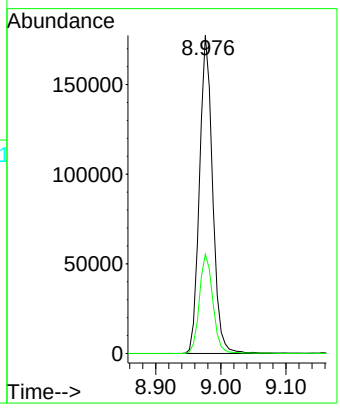




#53
t-1,3-Dichloropropene
Concen: 99.321 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 248092

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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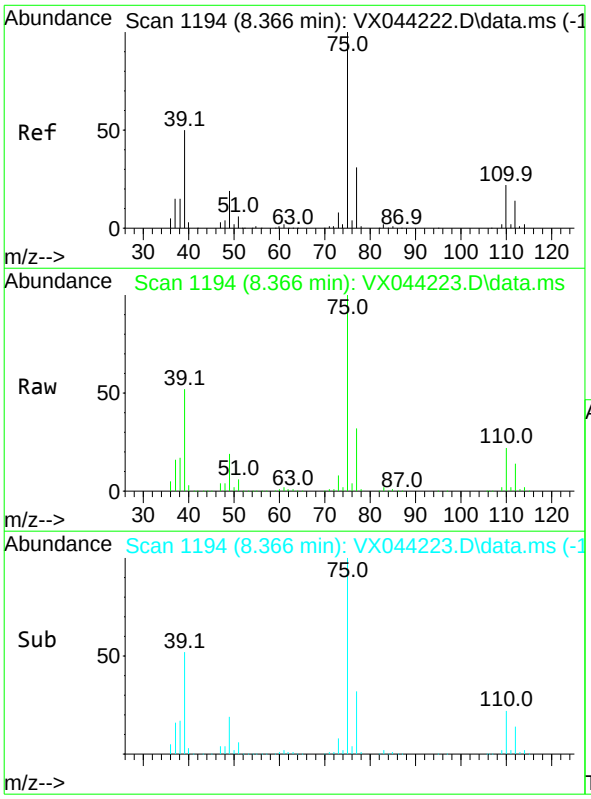
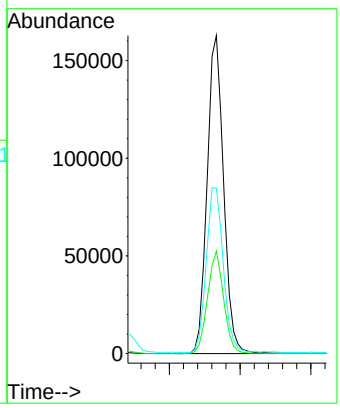
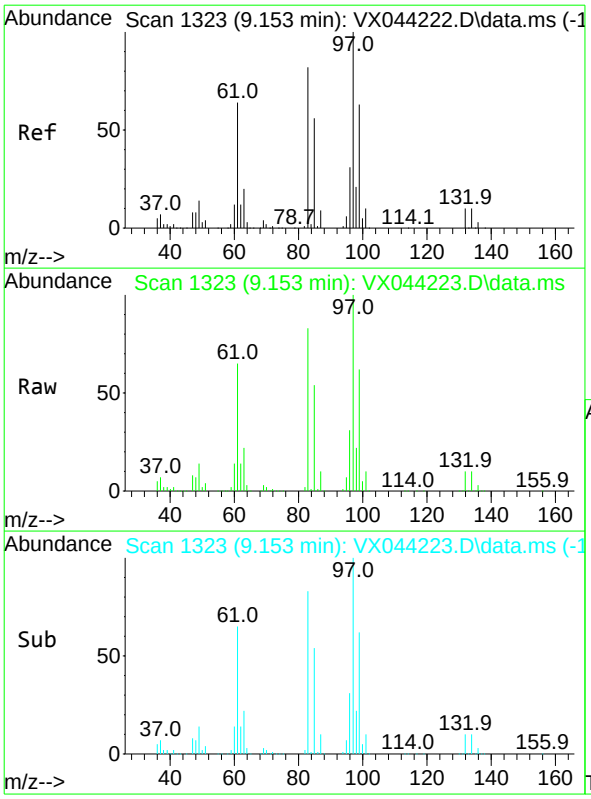


#54
cis-1,3-Dichloropropene
Concen: 110.127 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 263014

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	51.8	40.3	60.5

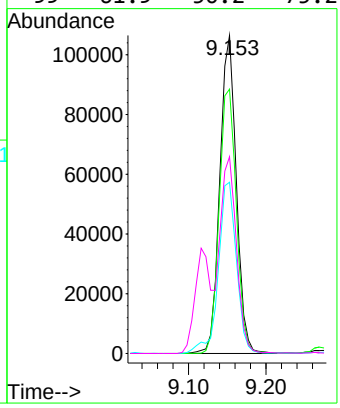




#55
1,1,2-Trichloroethane
Concen: 98.441 ug/l
RT: 9.153 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 97 Resp: 157366

Ion	Ratio	Lower	Upper
97	100		
83	83.1	65.3	97.9
85	53.8	44.6	67.0
99	61.9	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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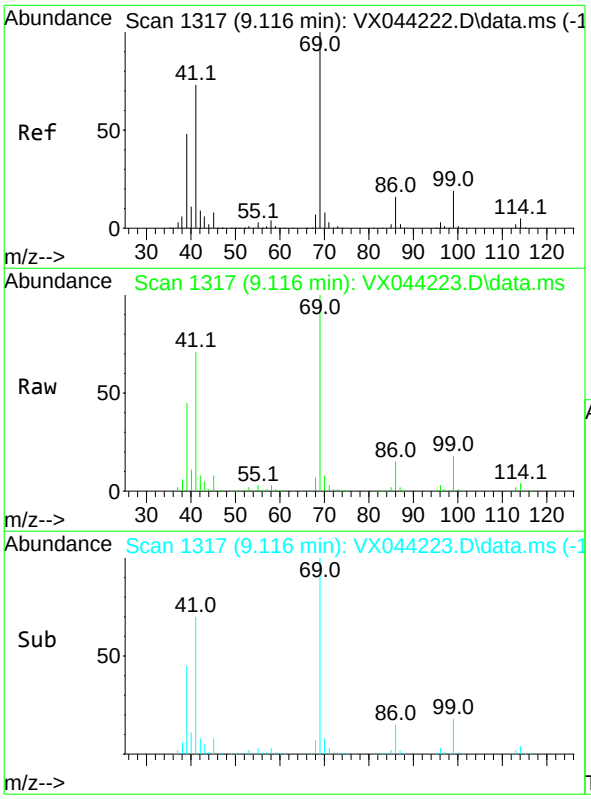
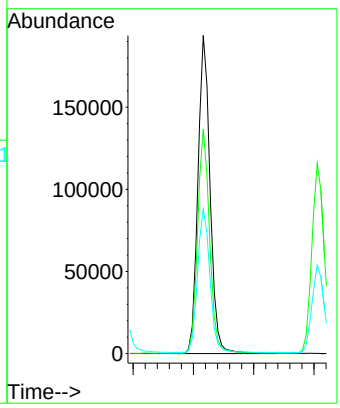
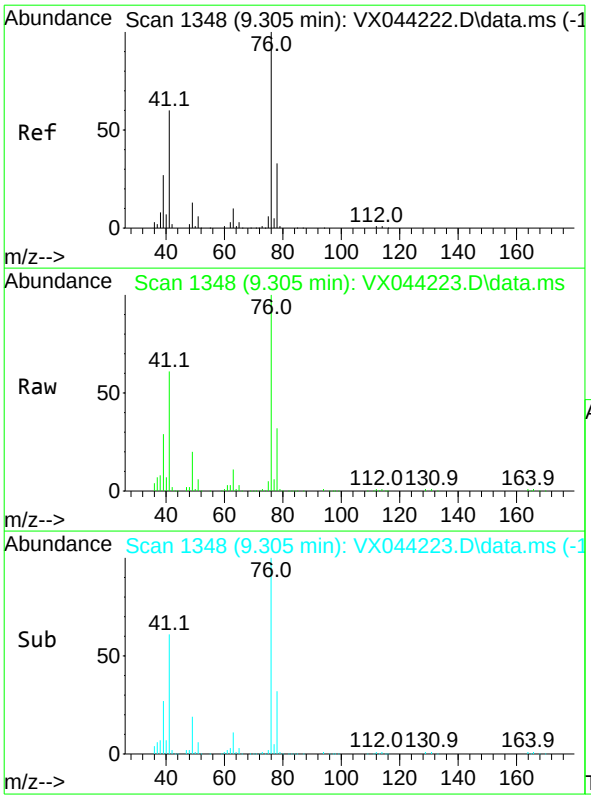


#56
Ethyl methacrylate
Concen: 107.442 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 69 Resp: 271146

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.1	37.4	56.0

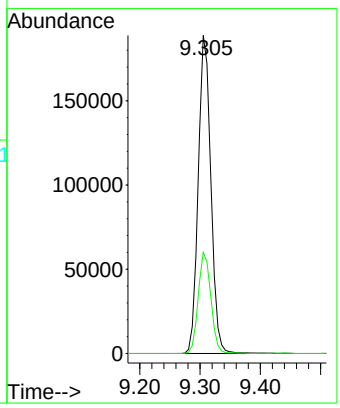




#57
1,3-Dichloropropane
Concen: 98.704 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 76 Resp: 274642

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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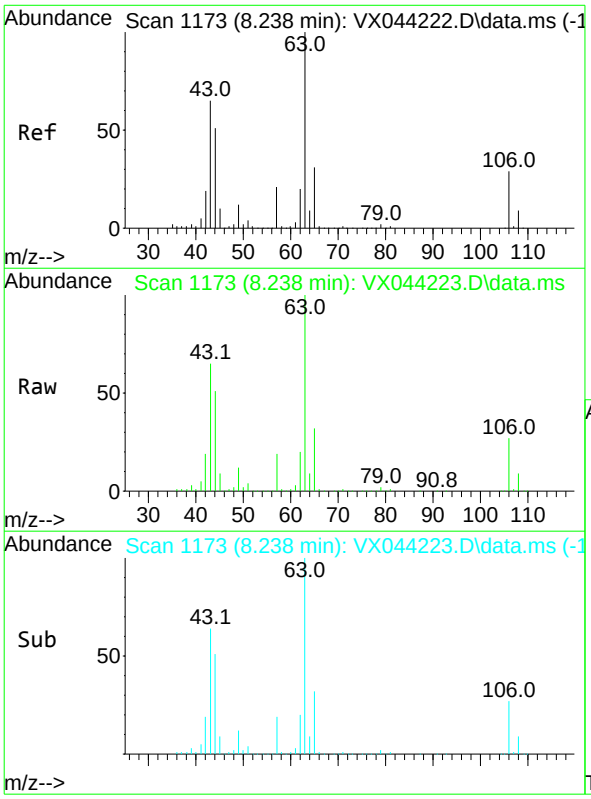
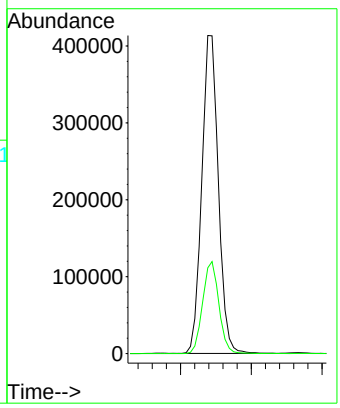
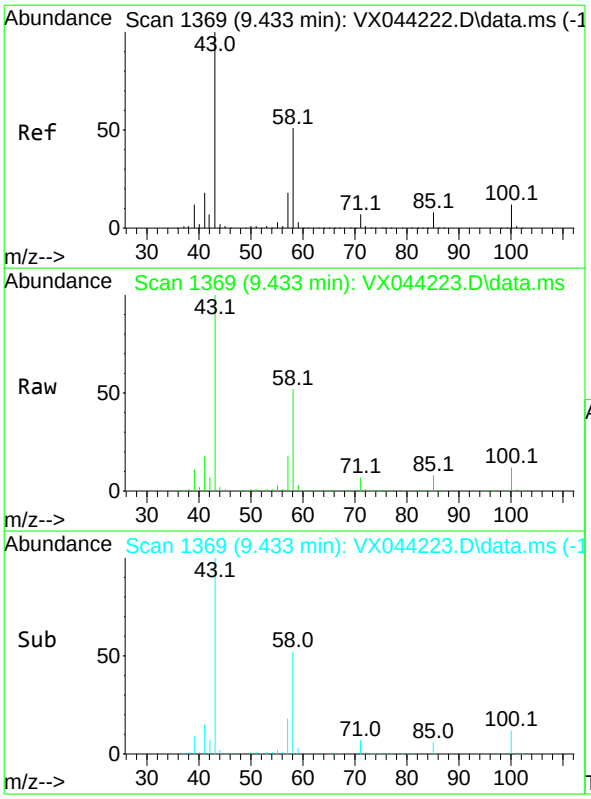


#58
2-Chloroethyl Vinyl ether
Concen: 527.342 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 671233

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2

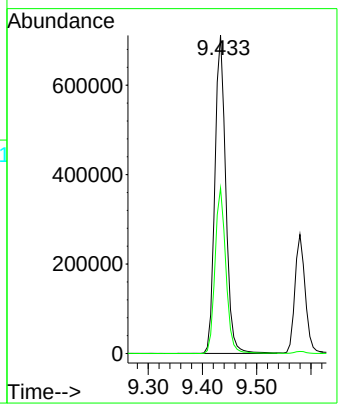




#59
2-Hexanone
Concen: 521.401 ug/l
RT: 9.433 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 989466

Ion	Ratio	Lower	Upper
43	100		
58	51.9	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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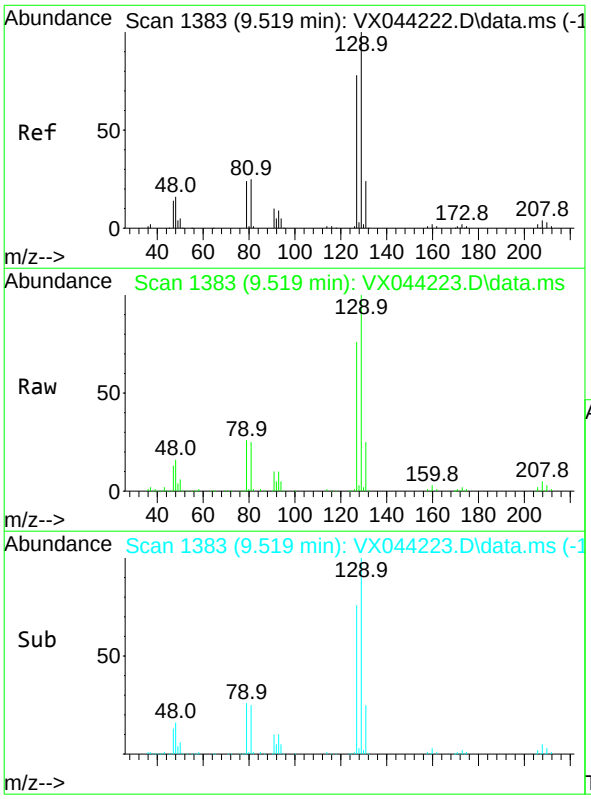
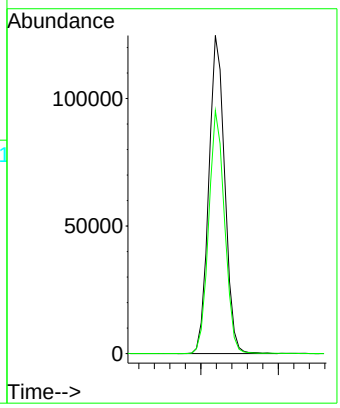
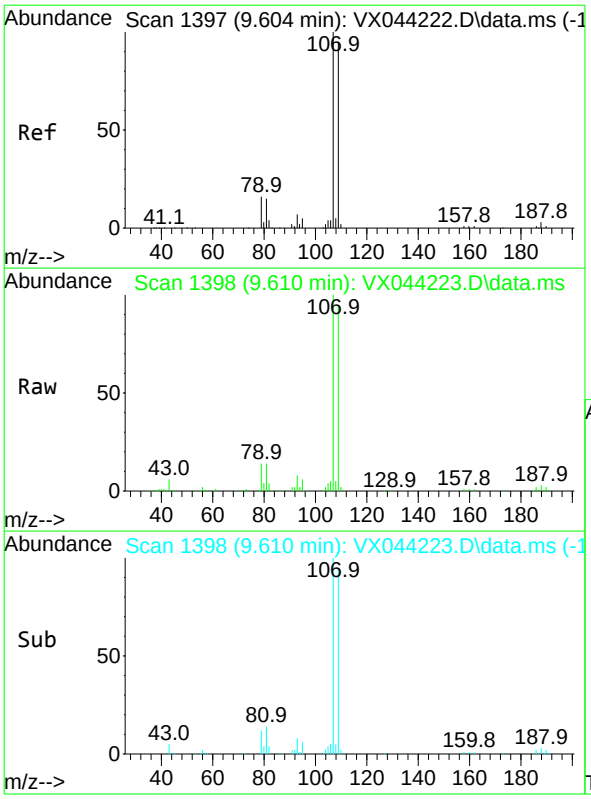


#60
Dibromochloromethane
Concen: 99.480 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:129 Resp: 178135

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.5	115.3

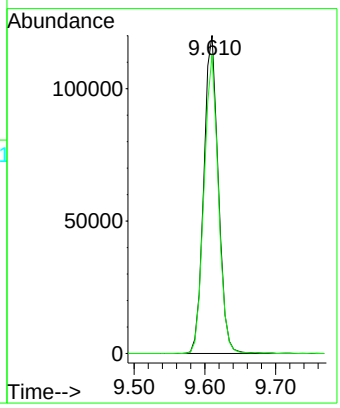




#61
1,2-Dibromoethane
Concen: 105.371 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:107 Resp: 171458

Ion	Ratio	Lower	Upper
107	100		
109	93.1	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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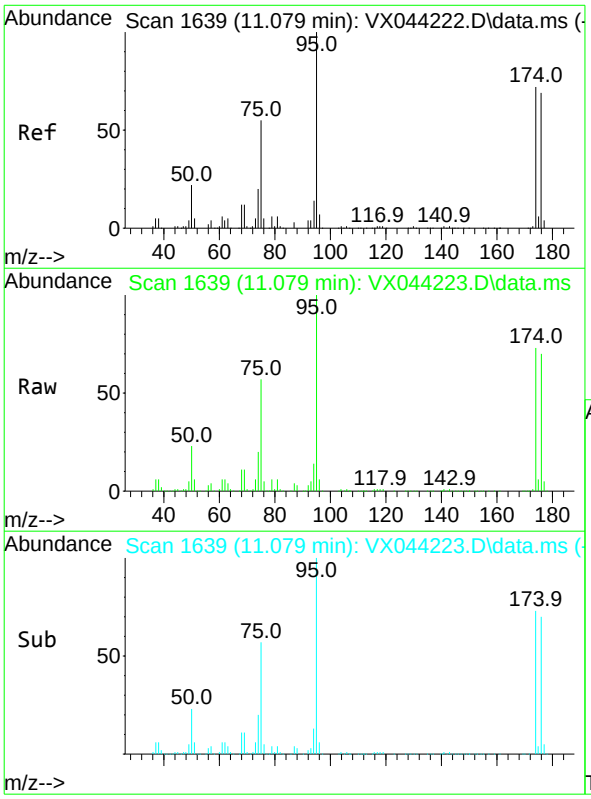
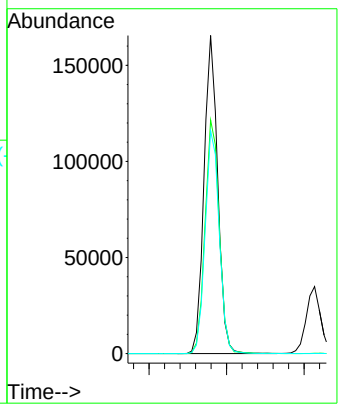
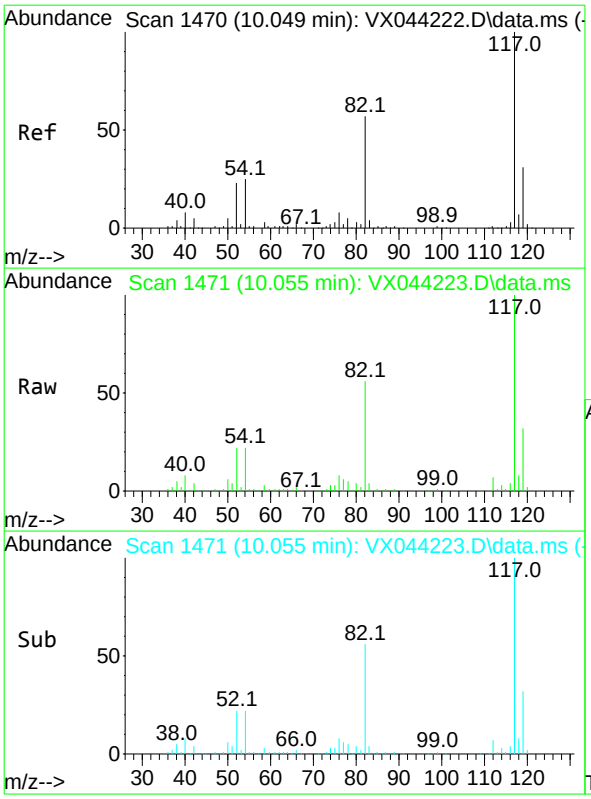


#62
4-Bromofluorobenzene
Concen: 105.830 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 95 Resp: 203694

Ion	Ratio	Lower	Upper
95	100		
174	76.0	0.0	145.8
176	72.0	0.0	137.8

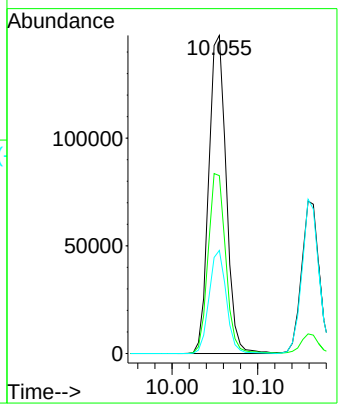




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 209164

Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.8	68.8
119	32.4	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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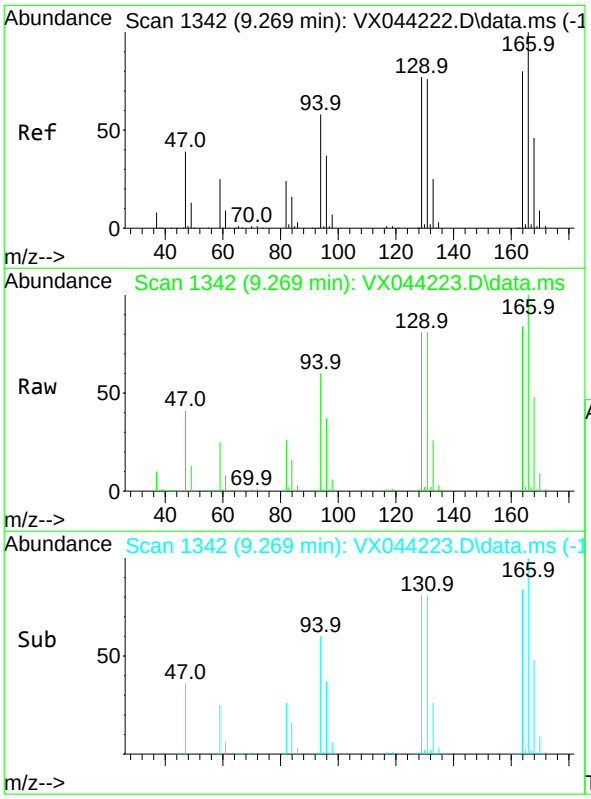
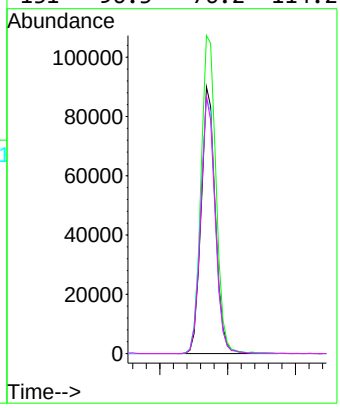
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

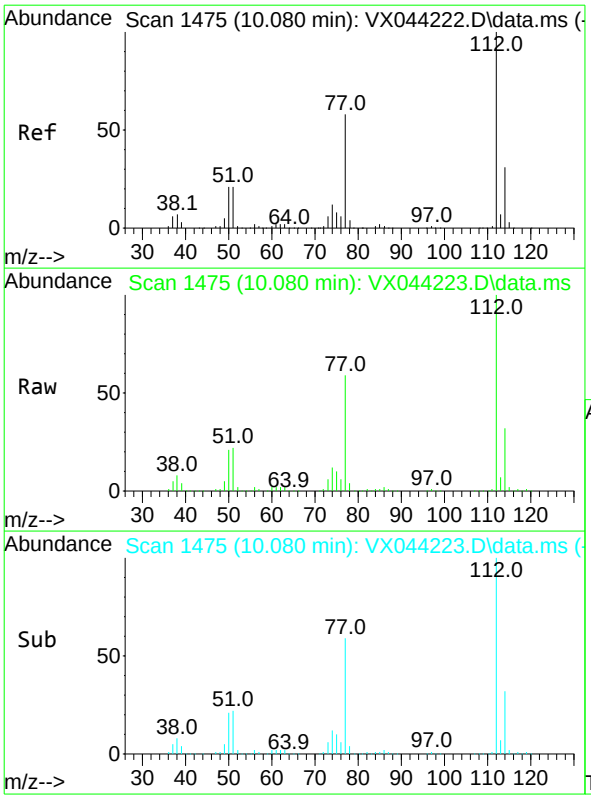


#64
Tetrachloroethene
Concen: 94.131 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:164 Resp: 130678

Ion	Ratio	Lower	Upper
164	100		
166	119.2	100.4	150.6
129	96.1	77.2	115.8
131	96.3	76.2	114.2

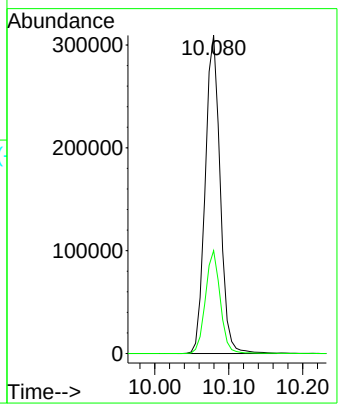




#65
Chlorobenzene
Concen: 96.650 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:112 Resp: 433179

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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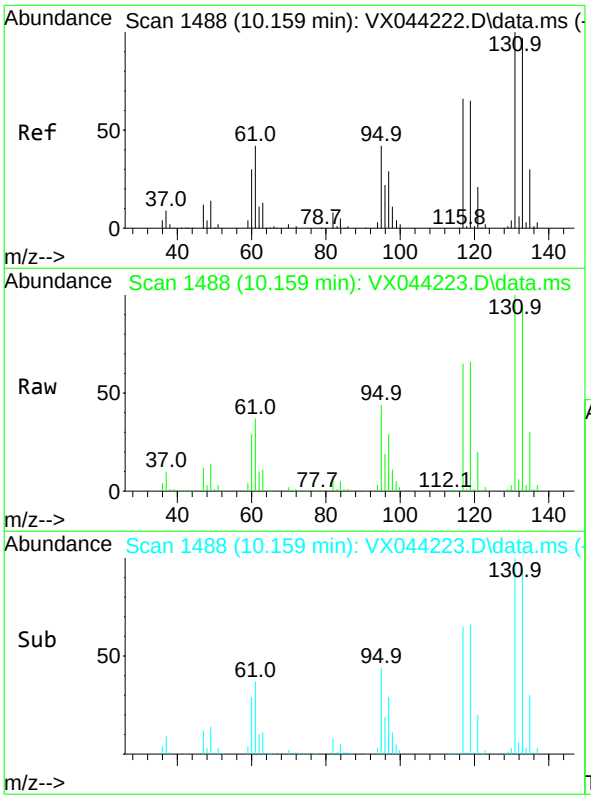
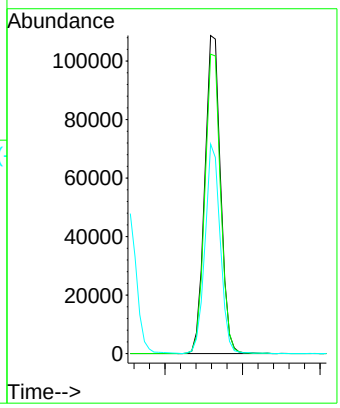
Supervised By :Mahesh Dadoda 12/12/2024

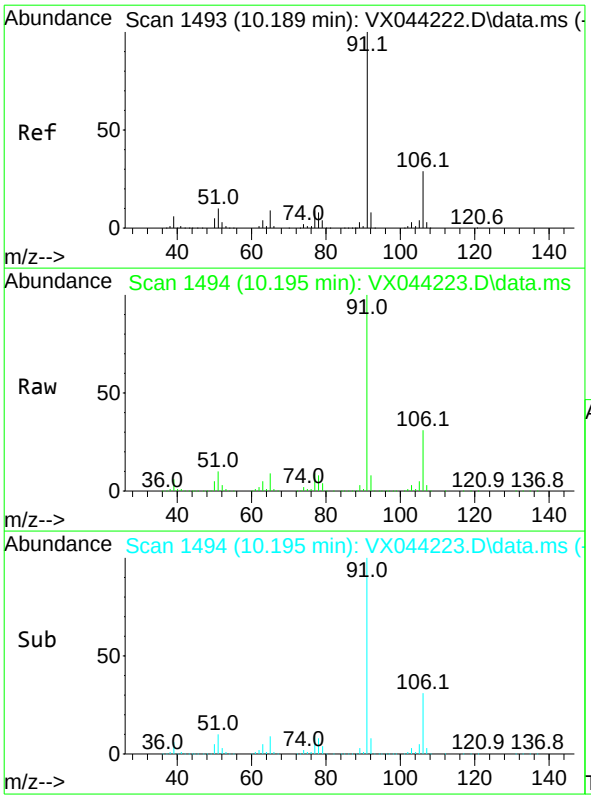


#66
1,1,1,2-Tetrachloroethane
Concen: 106.831 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:131 Resp: 153882

Ion	Ratio	Lower	Upper
131	100		
133	93.6	47.3	141.8
119	63.5	31.6	95.0

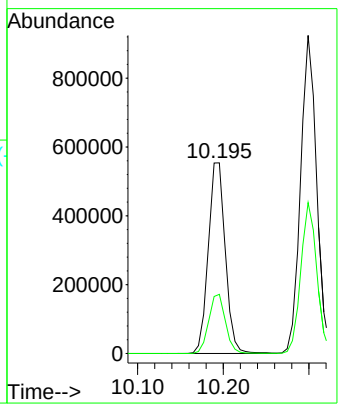




#67
Ethyl Benzene
Concen: 98.906 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 765930

Ion	Ratio	Lower	Upper
91	100		
106	31.0	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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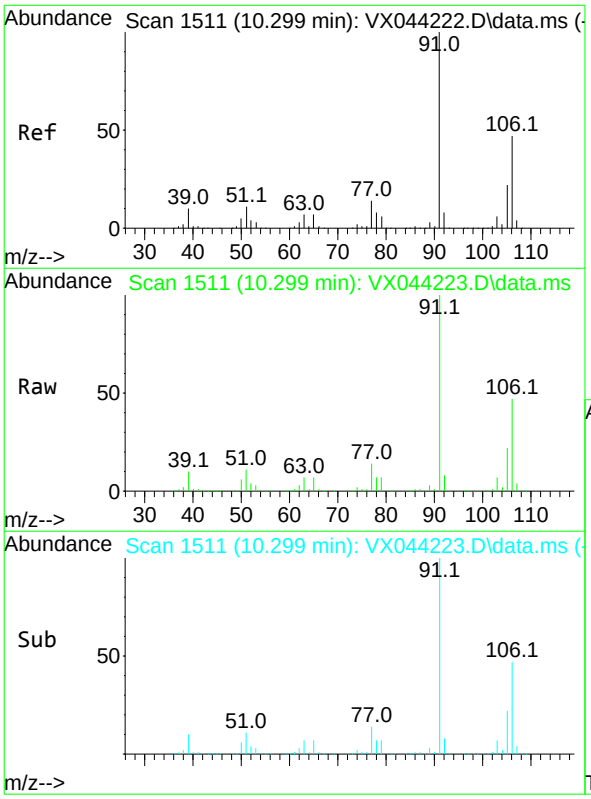
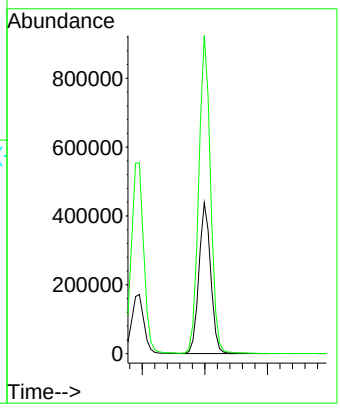
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

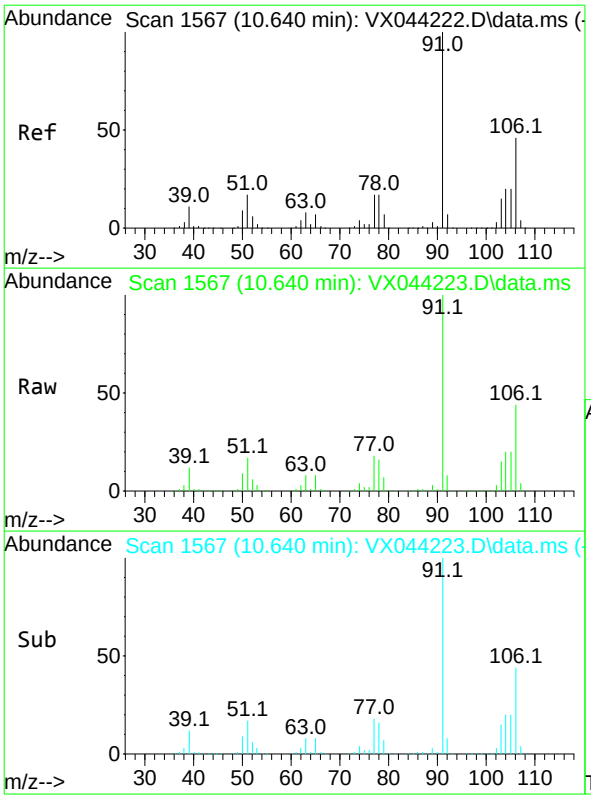


#68
m/p-Xylenes
Concen: 201.171 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:106 Resp: 571648

Ion	Ratio	Lower	Upper
106	100		
91	211.0	170.2	255.2

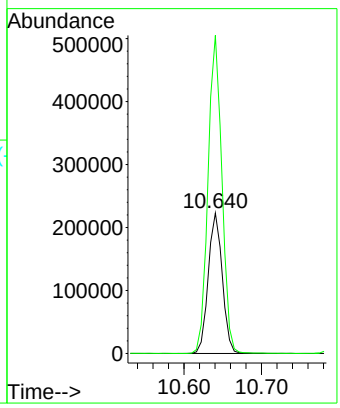




#69
o-Xylene
Concen: 97.597 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:106 Resp: 280603

Ion	Ratio	Lower	Upper
106	100		
91	223.9	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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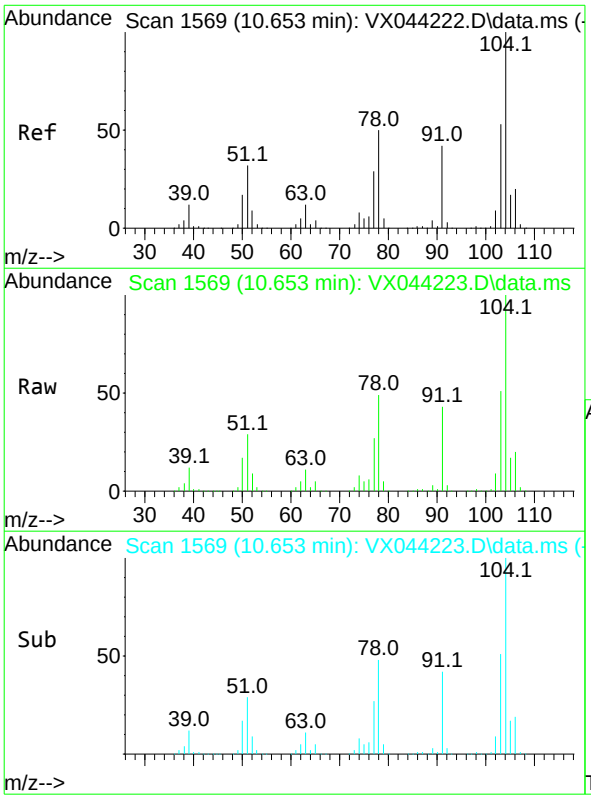
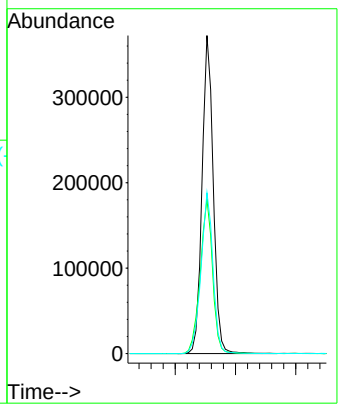
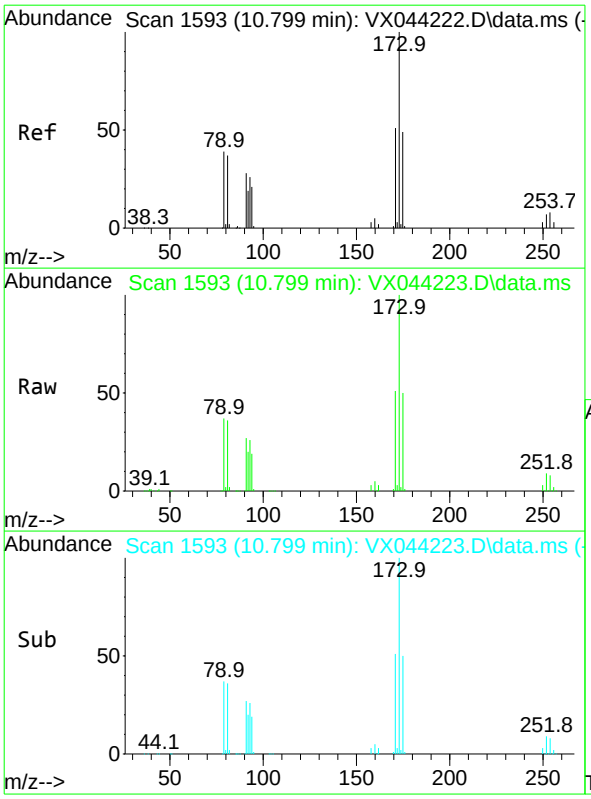


#70
Styrene
Concen: 104.159 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:104 Resp: 480077

Ion	Ratio	Lower	Upper
104	100		
78	53.5	44.6	67.0
103	54.5	45.4	68.0

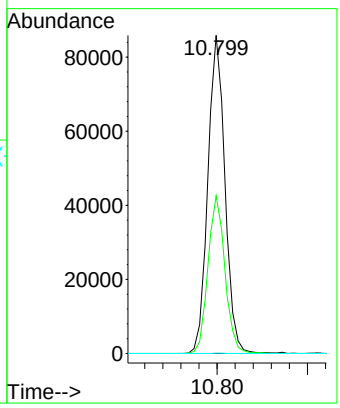




#71
Bromoform
Concen: 99.723 ug/l
RT: 10.799 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:173 Resp: 112482

Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.8	71.4
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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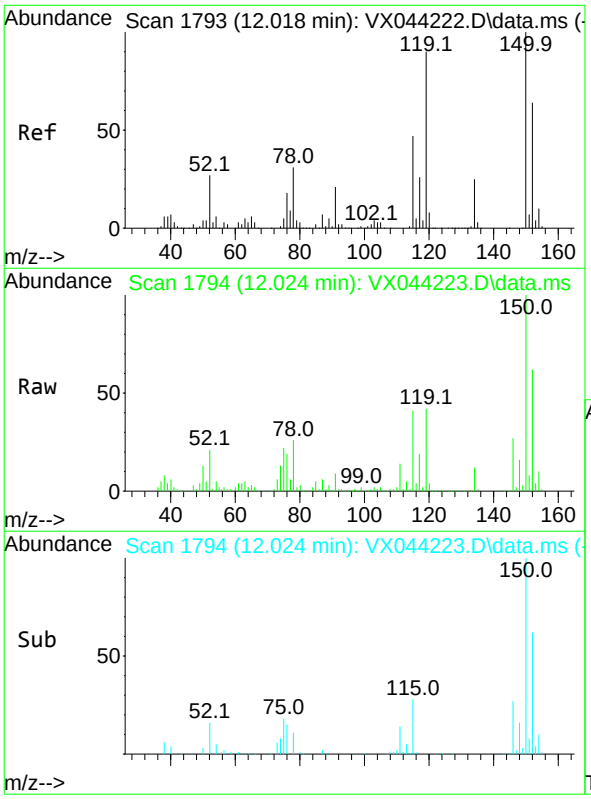
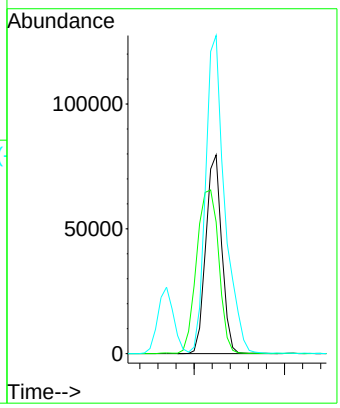
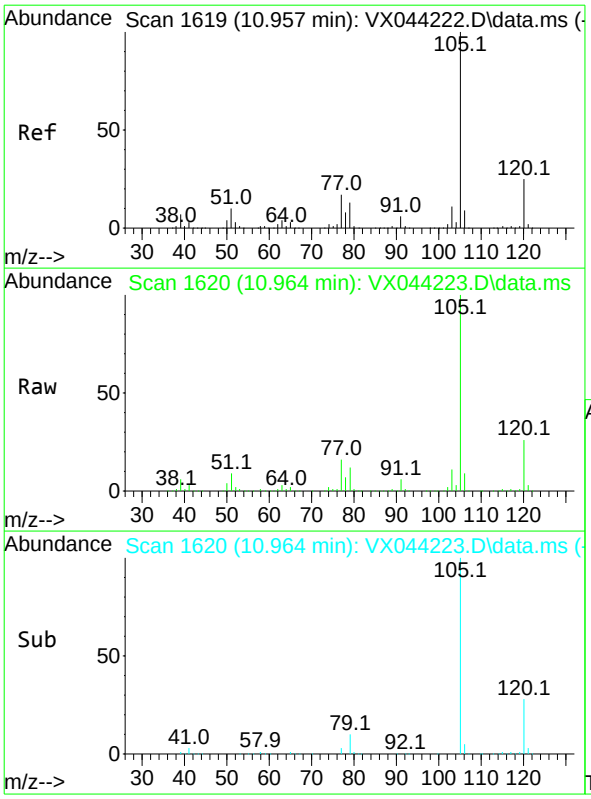


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:152 Resp: 97670

Ion	Ratio	Lower	Upper
152	100		
115	114.3	44.5	133.3
150	190.6	0.0	353.8

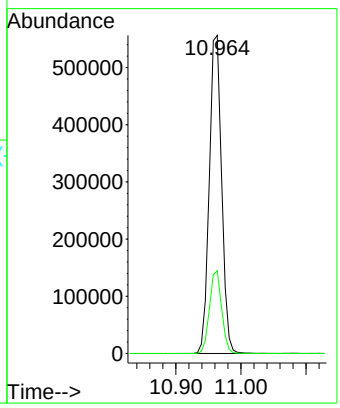




#73
Isopropylbenzene
Concen: 97.894 ug/l
RT: 10.964 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 731955

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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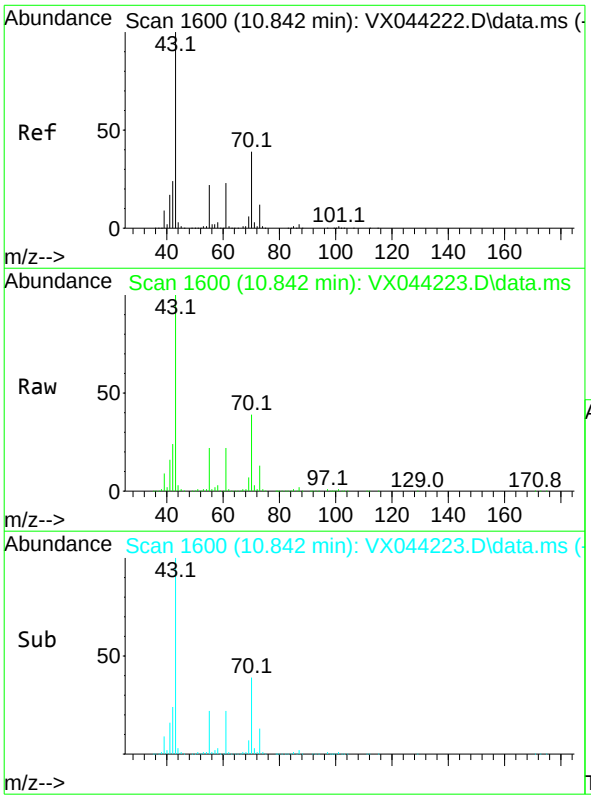
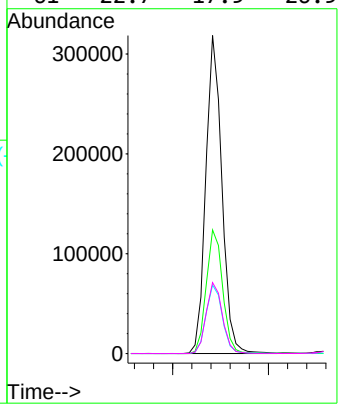
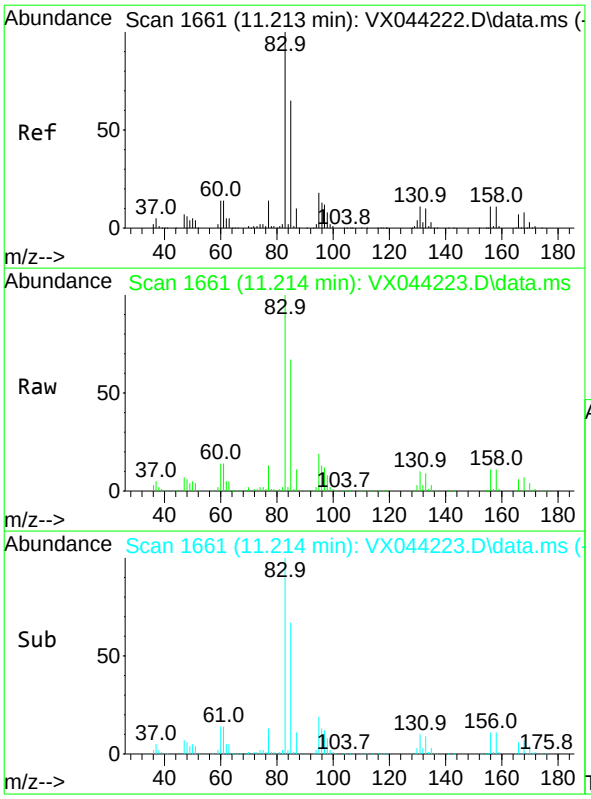


#74
N-amyl acetate
Concen: 107.485 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 371420

Ion	Ratio	Lower	Upper
43	100		
70	39.7	31.9	47.9
55	22.2	17.9	26.9
61	22.7	17.9	26.9

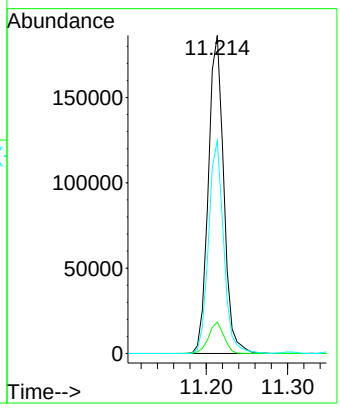




#75
1,1,2,2-Tetrachloroethane
Concen: 94.491 ug/l
RT: 11.214 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 245395

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	65.4	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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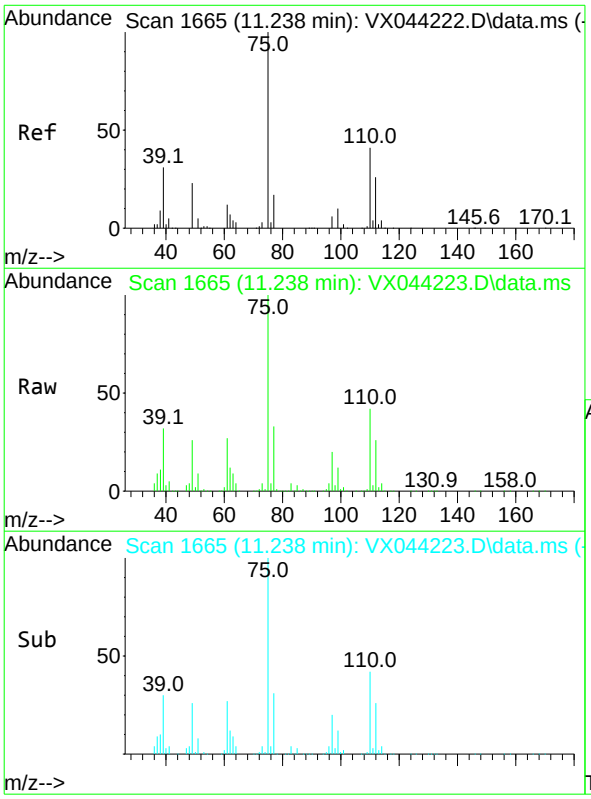
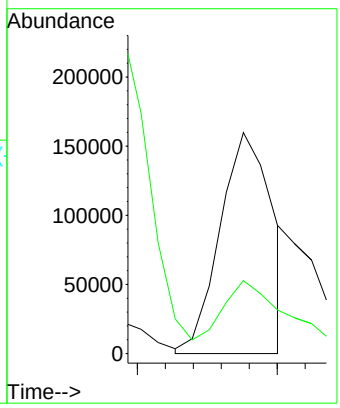
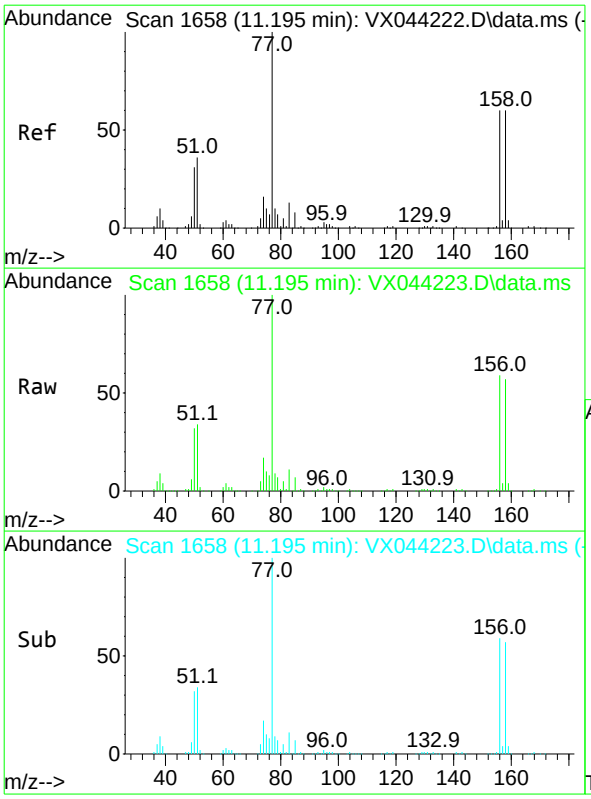


#76
1,2,3-Trichloropropane
Concen: 93.302 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 206786

Ion	Ratio	Lower	Upper
75	100		
77	43.4	20.9	62.7

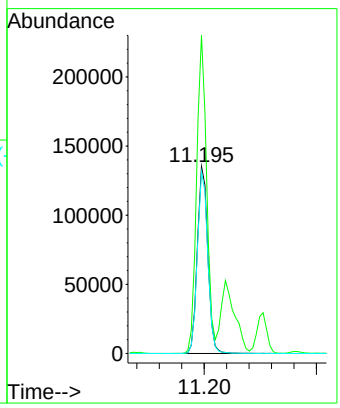




#77
Bromobenzene
Concen: 96.874 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:156 Resp: 175647

Ion	Ratio	Lower	Upper
156	100		
77	162.7	82.6	247.8
158	96.2	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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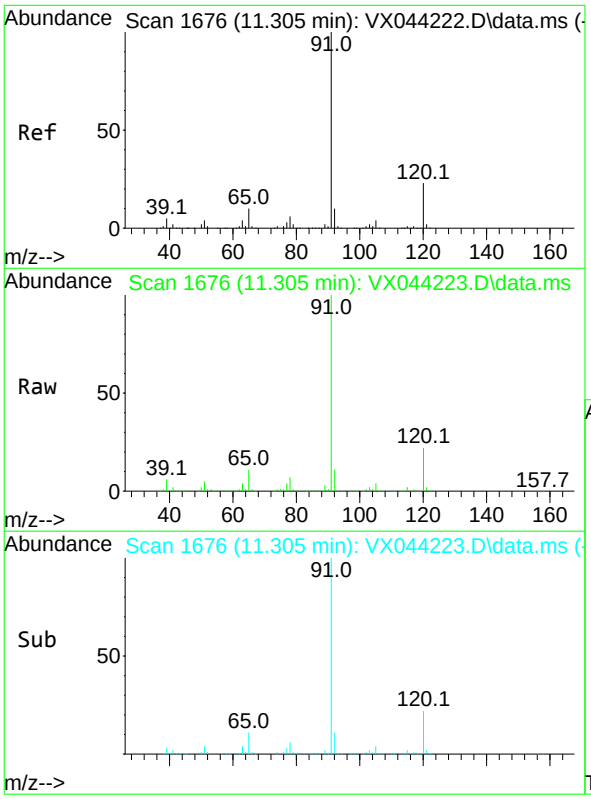
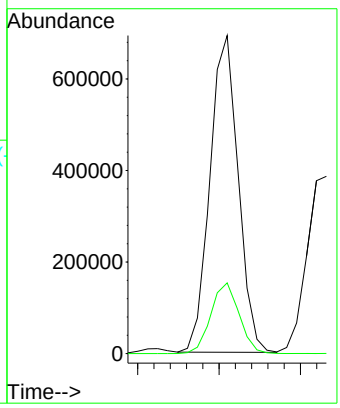
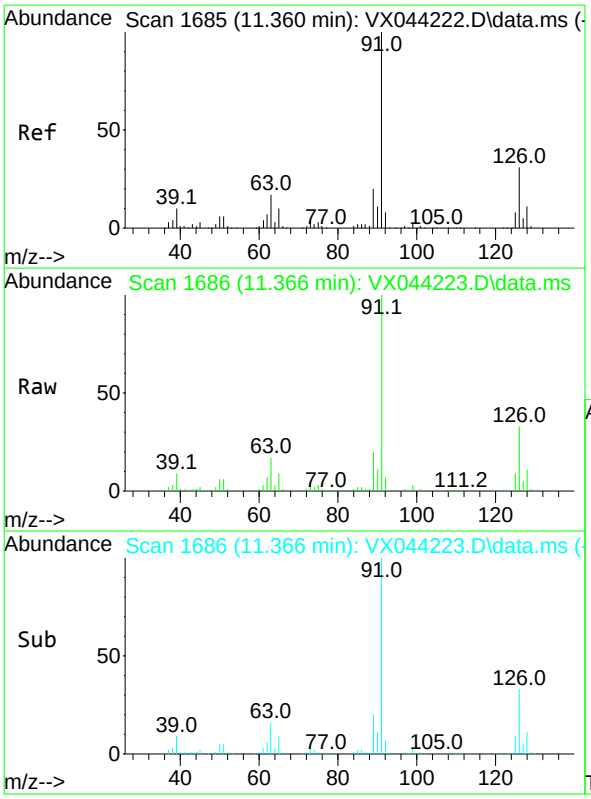


#78
n-propylbenzene
Concen: 101.242 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 836676

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0

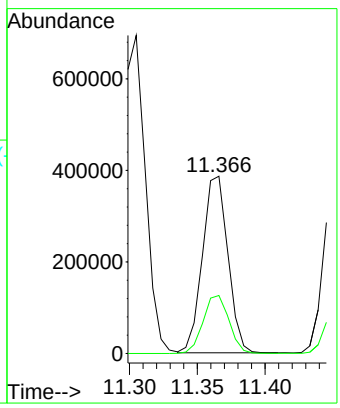




#79
2-Chlorotoluene
Concen: 94.377 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 504407

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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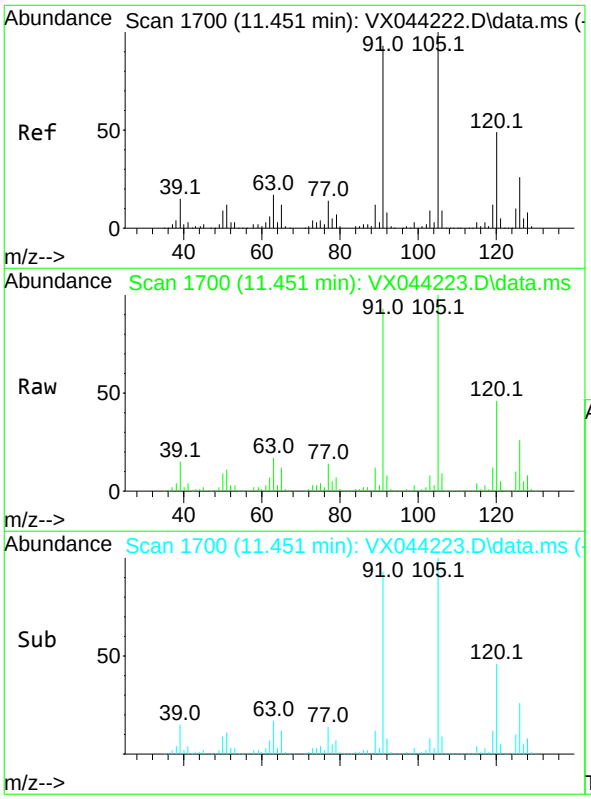
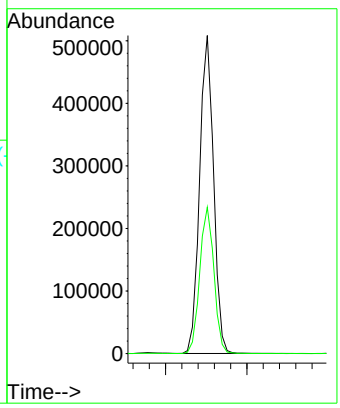
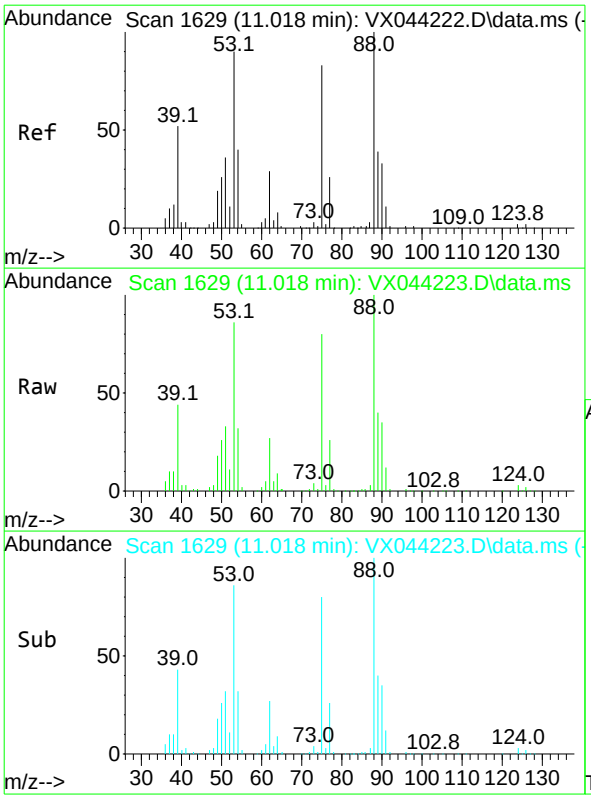


#80
1,3,5-Trimethylbenzene
Concen: 97.570 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 604993

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.8	71.4

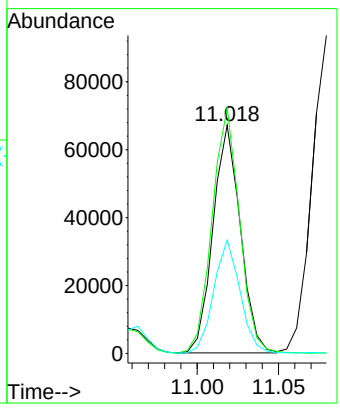




#81
trans-1,4-Dichloro-2-butene
Concen: 97.165 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 78453

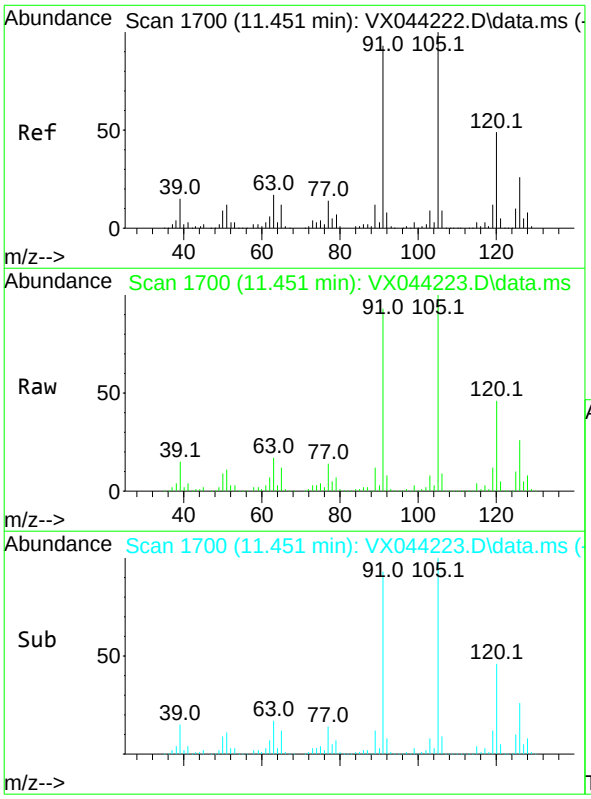
Ion	Ratio	Lower	Upper
75	100		
53	107.9	93.6	140.4
89	47.8	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

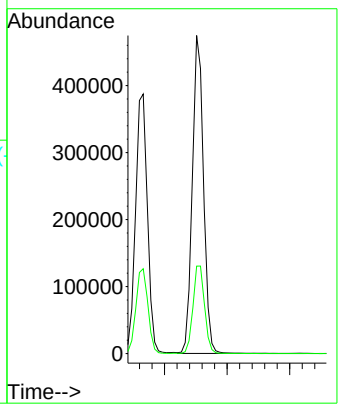
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

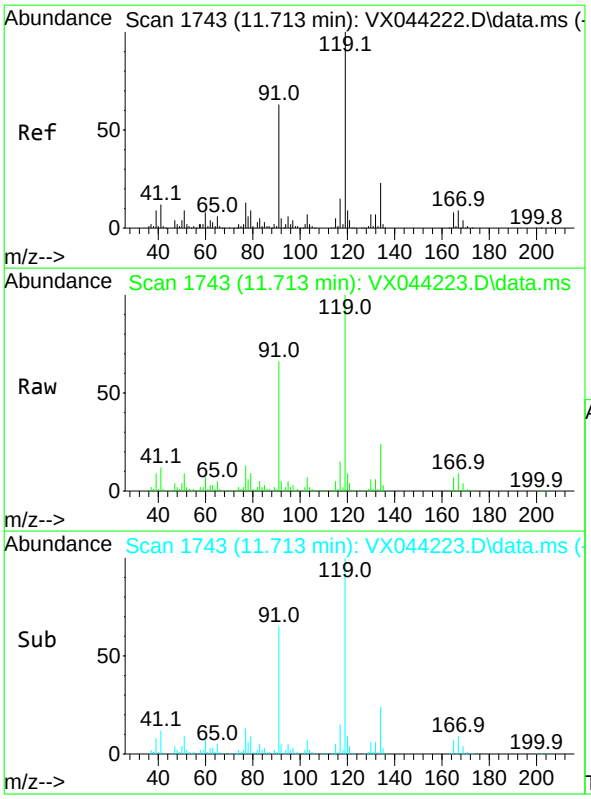


#82
4-Chlorotoluene
Concen: 99.384 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 588197

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5

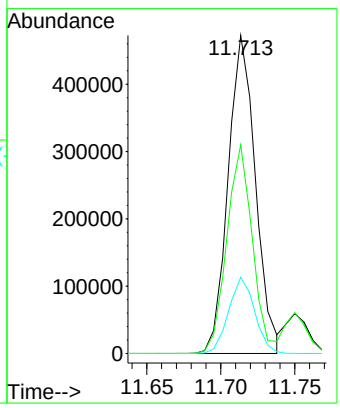




#83
tert-Butylbenzene
Concen: 99.013 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:119 Resp: 606738

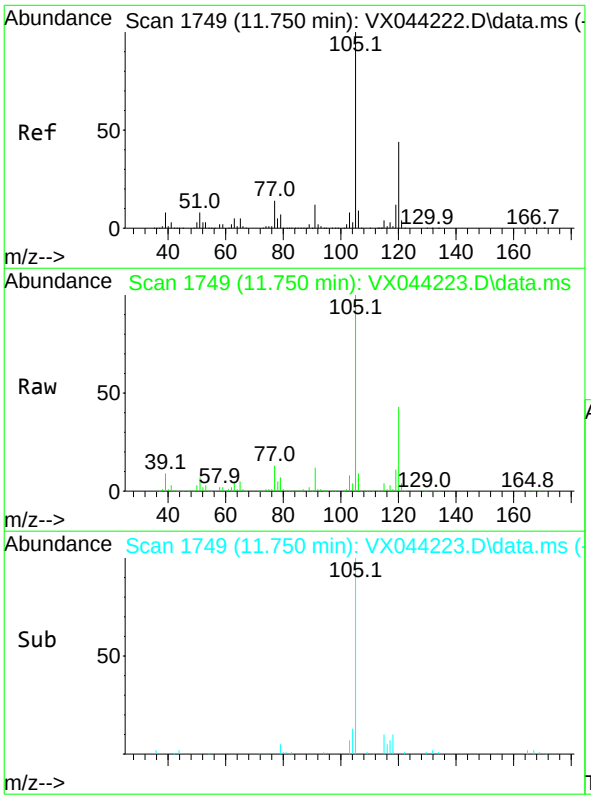
Ion	Ratio	Lower	Upper
119	100		
91	61.5	30.9	92.5
134	22.8	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

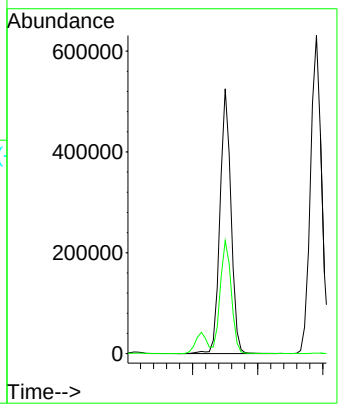
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

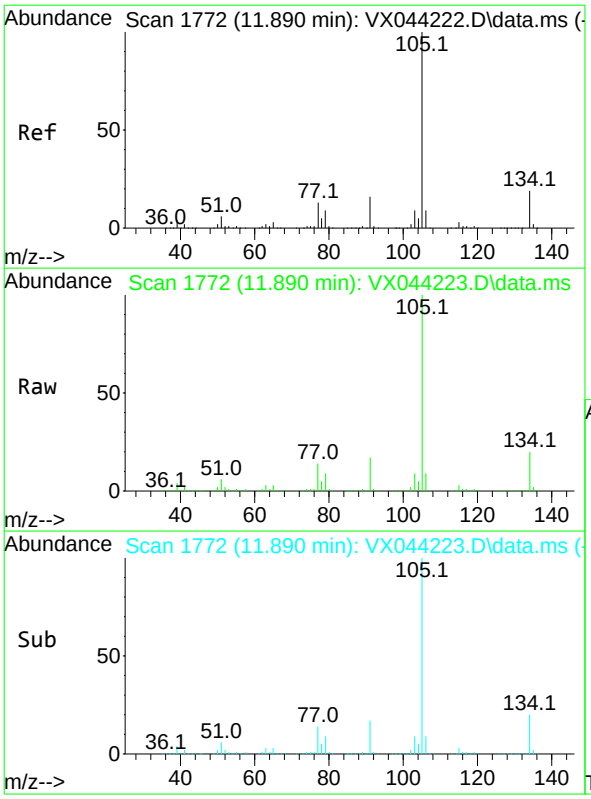


#84
1,2,4-Trimethylbenzene
Concen: 100.994 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 614999

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1

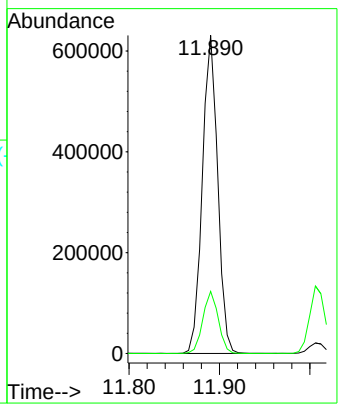




#85
sec-Butylbenzene
Concen: 99.889 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 743098

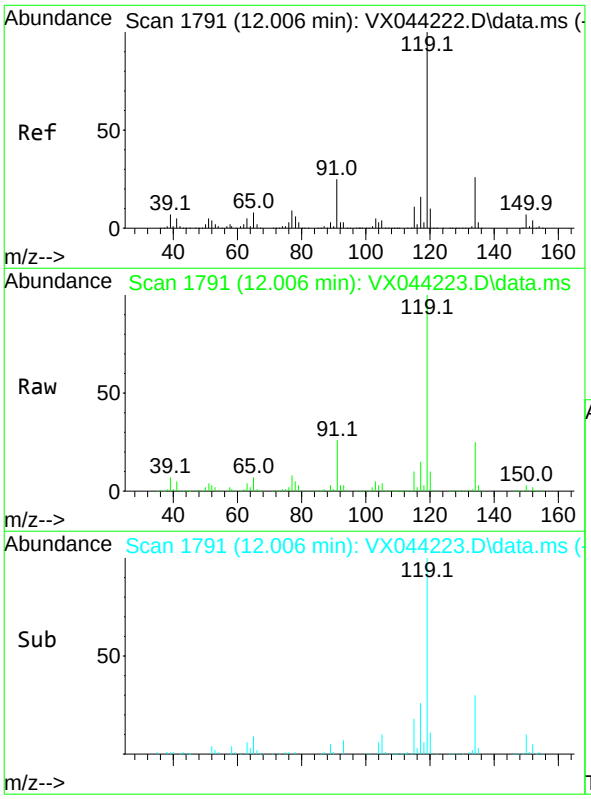
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

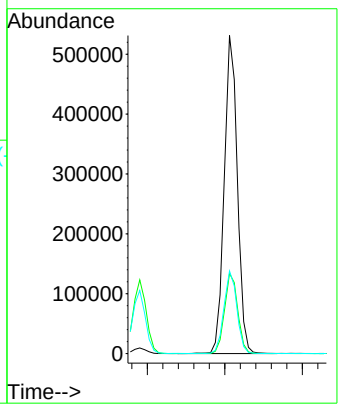
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

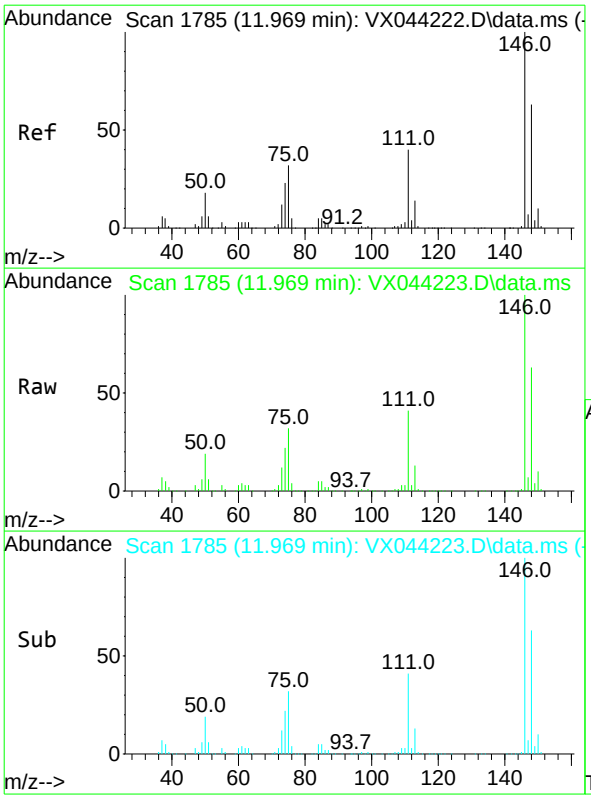


#86
p-Isopropyltoluene
Concen: 100.847 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:119 Resp: 624416

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.8	38.4
91	25.6	13.0	39.0

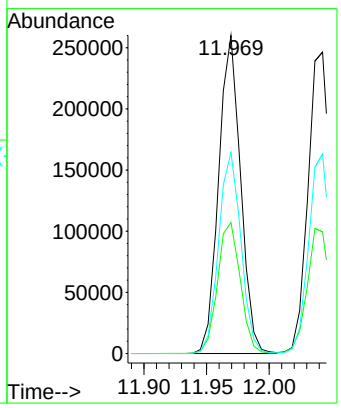




#87
1,3-Dichlorobenzene
Concen: 100.210 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:146 Resp: 317377

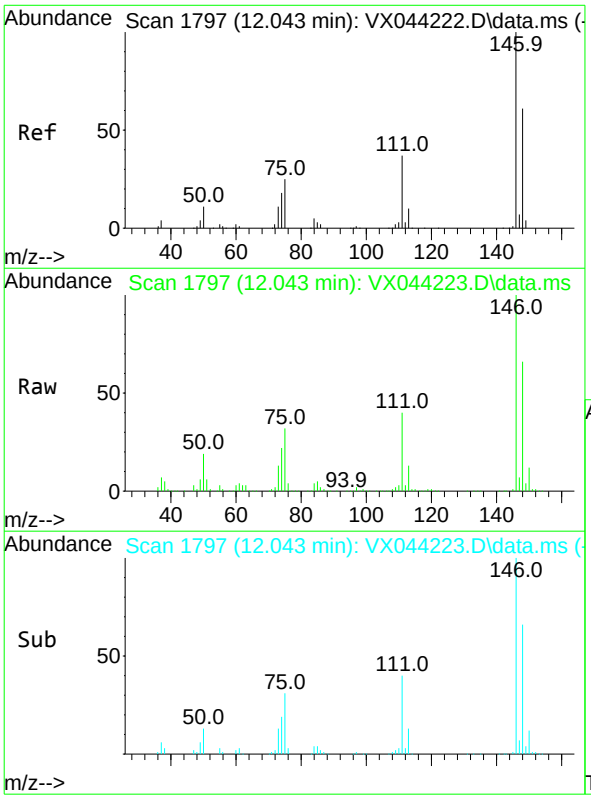
Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.4	64.2
148	64.1	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

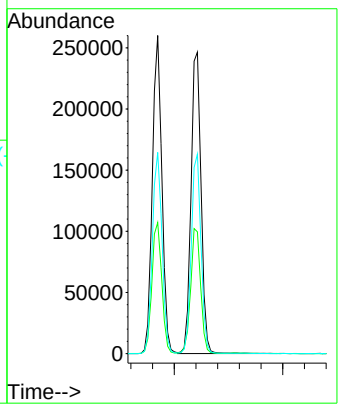
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

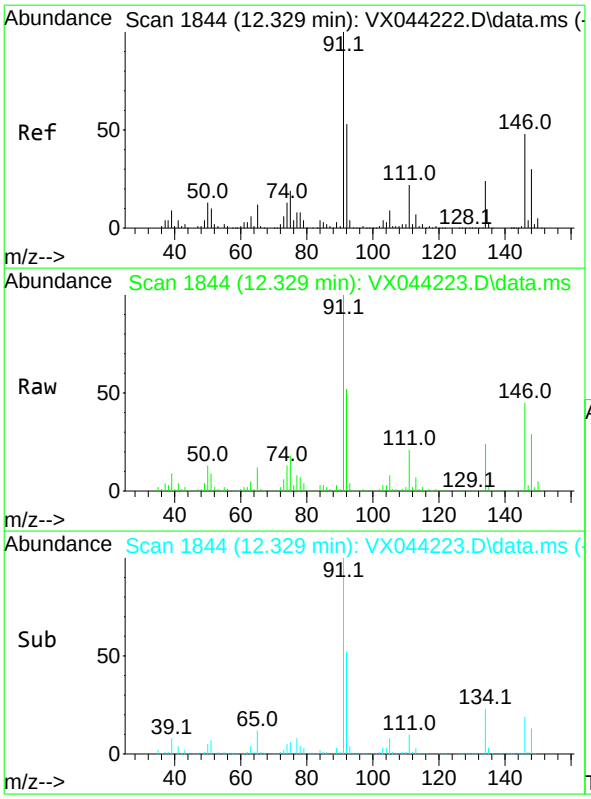


#88
1,4-Dichlorobenzene
Concen: 97.271 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:146 Resp: 316688

Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.0	63.0
148	63.7	32.3	96.8

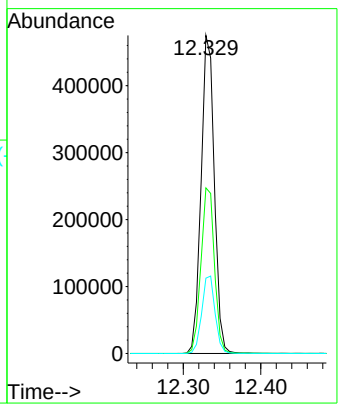




#89
n-Butylbenzene
Concen: 108.385 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 564303

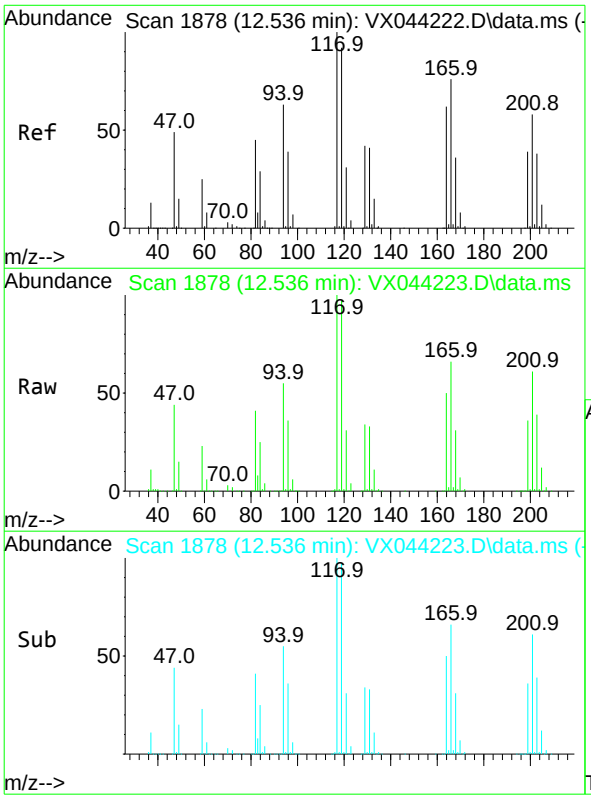
Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.6	79.7
134	24.5	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

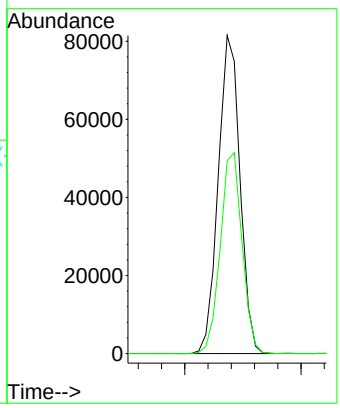
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

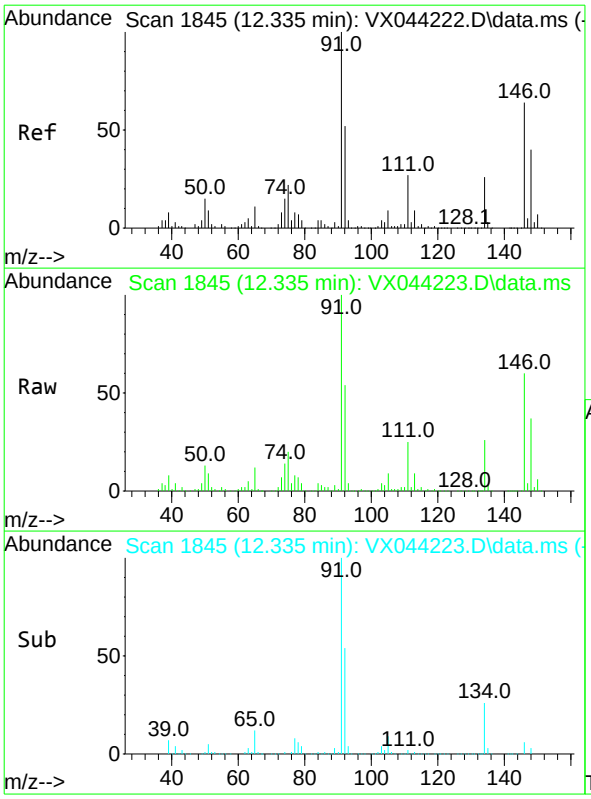


#90
Hexachloroethane
Concen: 117.218 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 105946

Ion	Ratio	Lower	Upper
117	100		
201	63.2	31.4	94.2

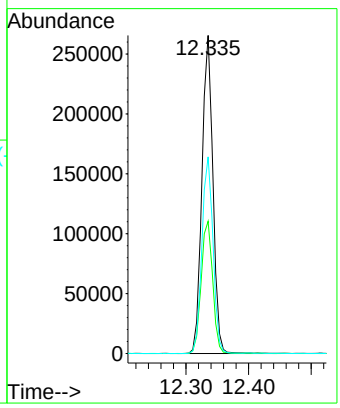




#91
1,2-Dichlorobenzene
Concen: 98.232 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:146 Resp: 323040

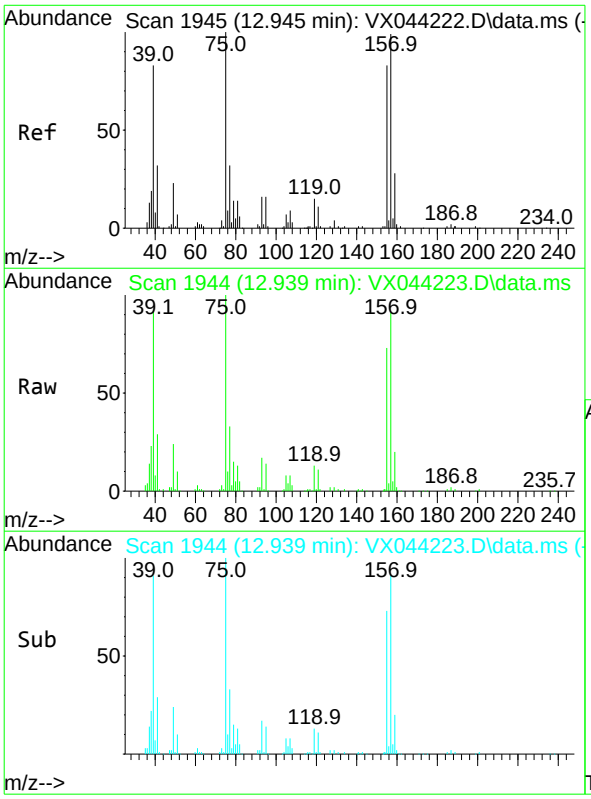
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.4	64.3
148	62.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

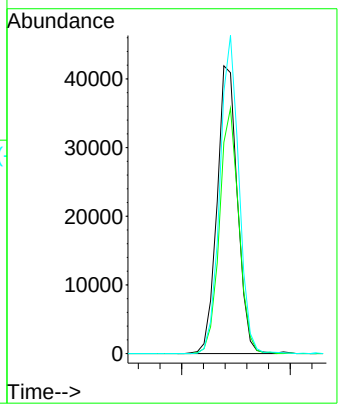
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

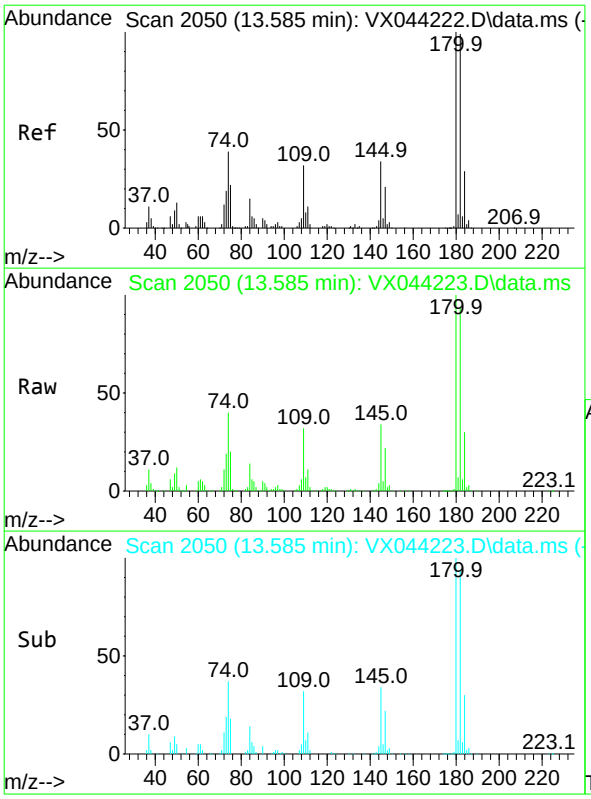


#92
1,2-Dibromo-3-Chloropropane
Concen: 108.279 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 54588

Ion	Ratio	Lower	Upper
75	100		
155	80.6	38.1	114.3
157	102.8	47.2	141.6

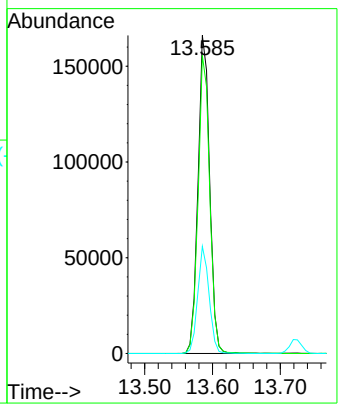




#93
1,2,4-Trichlorobenzene
Concen: 109.766 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:180 Resp: 197899

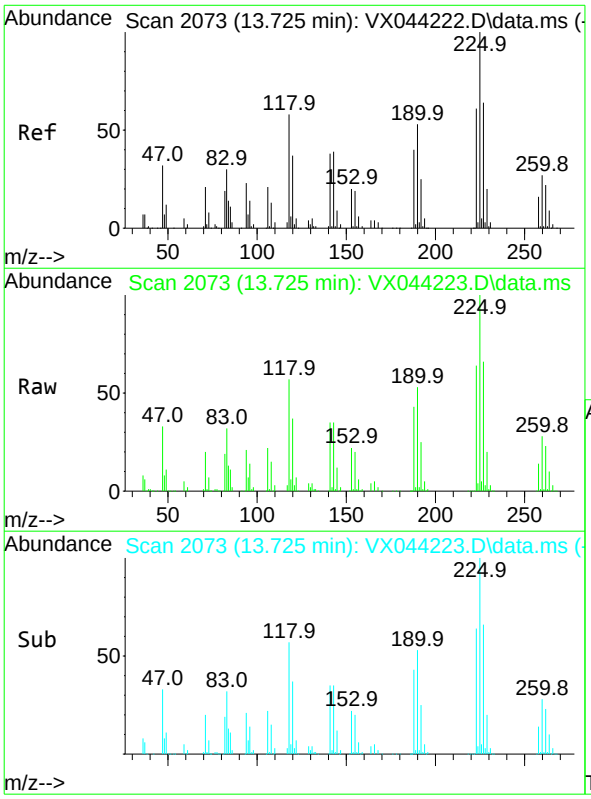
Ion	Ratio	Lower	Upper
180	100		
182	93.5	48.0	144.2
145	32.9	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

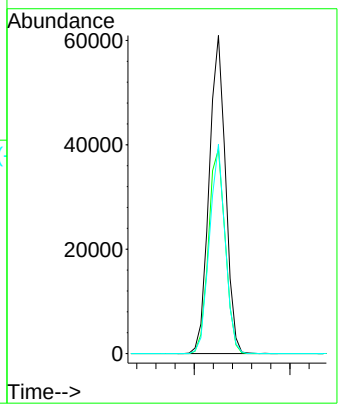
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

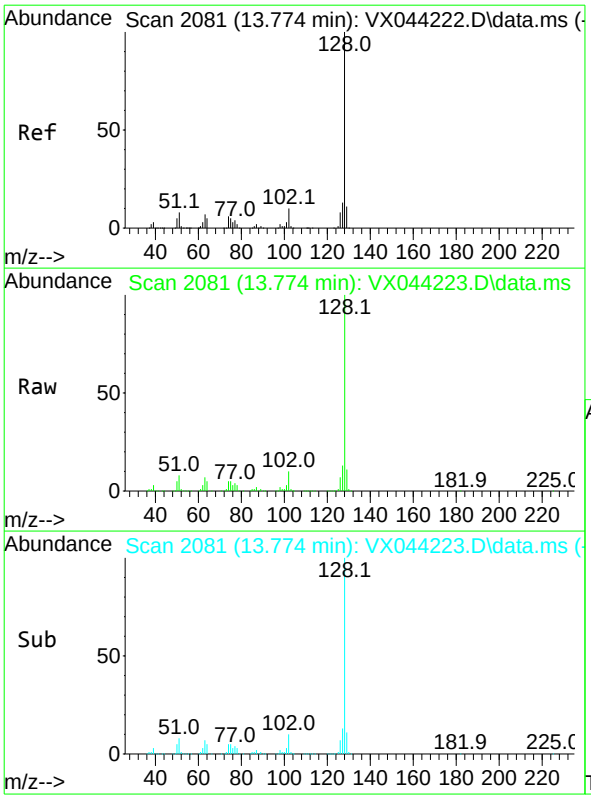


#94
Hexachlorobutadiene
Concen: 99.908 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:225 Resp: 72453

Ion	Ratio	Lower	Upper
225	100		
223	65.5	30.8	92.4
227	62.9	32.1	96.3

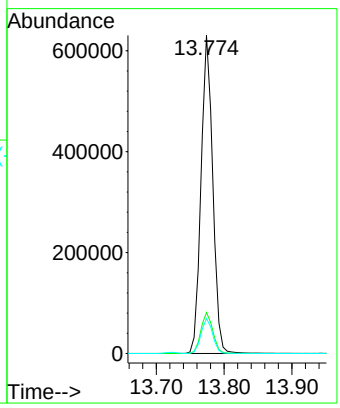




#95
Naphthalene
Concen: 107.308 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:128 Resp: 755181

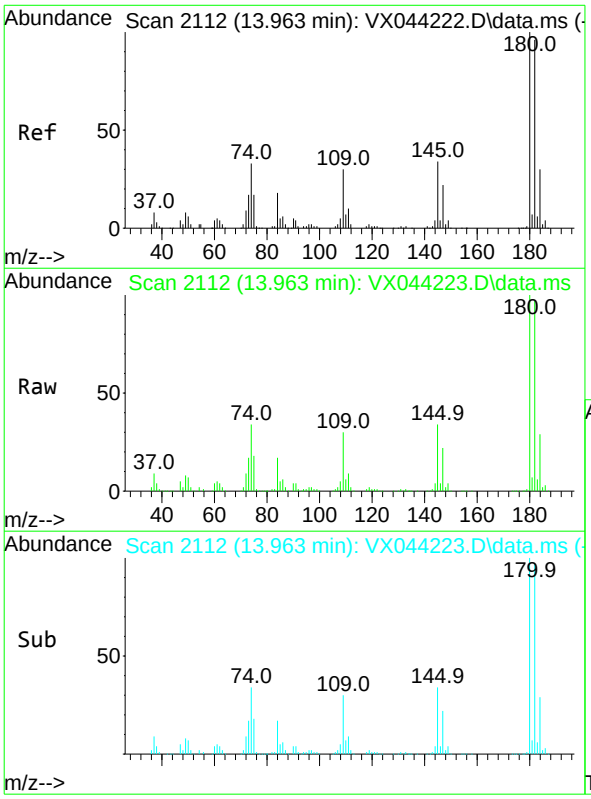
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

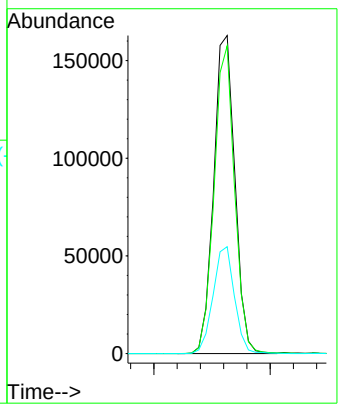
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 107.754 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:180 Resp: 206053

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.0
145	34.1	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	117957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218610	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	190013	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	90898	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	314272	151.956	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 303.920%#			
35) Dibromofluoromethane	5.385	113	231937	153.188	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 306.380%#			
50) Toluene-d8	8.647	98	788876	154.438	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 308.880%#			
62) 4-Bromofluorobenzene	11.079	95	279706	156.709	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 313.420%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	268739	147.342	ug/l	98
3) Chloromethane	1.294	50	261734	150.062	ug/l	97
4) Vinyl Chloride	1.374	62	260651	143.446	ug/l	97
5) Bromomethane	1.593	94	194089	150.562	ug/l	100
6) Chloroethane	1.660	64	150640	133.137	ug/l	98
7) Trichlorofluoromethane	1.861	101	500315	140.645	ug/l	99
8) Diethyl Ether	2.136	74	183845	151.407	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	219513	152.497	ug/l	99
10) Methyl Iodide	2.441	142	284184	149.795	ug/l	99
11) Tert butyl alcohol	3.014	59	266830	916.880	ug/l	98
12) 1,1-Dichloroethene	2.306	96	211016	159.600	ug/l	96
13) Acrolein	2.239	56	341487	809.350	ug/l	100
14) Allyl chloride	2.654	41	346773	157.465	ug/l	99
15) Acrylonitrile	3.068	53	649783	804.774	ug/l	99
16) Acetone	2.392	43	658120	780.537	ug/l	98
17) Carbon Disulfide	2.495	76	481926	191.754	ug/l	99
18) Methyl Acetate	2.709	43	336516	154.792	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	806360	156.286	ug/l	98
20) Methylene Chloride	2.782	84	236412	149.282	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	221622	157.719	ug/l	99
22) Diisopropyl ether	3.763	45	751292	151.500	ug/l	98
23) Vinyl Acetate	3.727	43	3464902	859.417	ug/l	99
24) 1,1-Dichloroethane	3.605	63	431006	155.921	ug/l	100
25) 2-Butanone	4.568	43	957709	798.973	ug/l	99
26) 2,2-Dichloropropane	4.465	77	367781	163.773	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	269708	151.131	ug/l	99
28) Bromochloromethane	4.897	49	200978	148.269	ug/l	100
29) Tetrahydrofuran	5.013	42	602095	782.561	ug/l	99
30) Chloroform	5.092	83	463606	149.274	ug/l	99
31) Cyclohexane	5.458	56	332026	148.745	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	415253	161.073	ug/l	99
36) 1,1-Dichloropropene	5.684	75	290913	148.642	ug/l	99
37) Ethyl Acetate	4.721	43	376757	155.731	ug/l	99
38) Carbon Tetrachloride	5.672	117	346795	164.587	ug/l	98
39) Methylcyclohexane	7.373	83	368542	157.516	ug/l	99
40) Benzene	6.031	78	887413	149.340	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	199851	155.569 ug/l		99
42) 1,2-Dichloroethane	6.086	62	369874	151.105 ug/l		100
43) Isopropyl Acetate	6.342	43	617107	163.200 ug/l		99
44) Trichloroethene	7.123	130	224164	151.275 ug/l		100
45) 1,2-Dichloropropane	7.427	63	224224	147.697 ug/l		96
46) Dibromomethane	7.580	93	184590	156.728 ug/l		99
47) Bromodichloromethane	7.818	83	352904	173.496 ug/l		98
48) Methyl methacrylate	7.696	41	292890	159.567 ug/l		98
49) 1,4-Dioxane	7.665	88	101048m	3221.248 ug/l		
51) 4-Methyl-2-Pentanone	8.580	43	1907523	784.573 ug/l		99
52) Toluene	8.714	92	557102	149.294 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	366275	150.167 ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	382226	172.581 ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	222665	150.202 ug/l		98
56) Ethyl methacrylate	9.116	69	389165	166.289 ug/l		99
57) 1,3-Dichloropropane	9.305	76	387086	150.014 ug/l		98
58) 2-Chloroethyl Vinyl ether	8.244	63	970949	822.575 ug/l		100
59) 2-Hexanone	9.433	43	1436300	816.161 ug/l		99
60) Dibromochloromethane	9.525	129	261253	150.105 ug/l		99
61) 1,2-Dibromoethane	9.610	107	242451	160.674 ug/l		97
64) Tetrachloroethene	9.269	164	186443	147.836 ug/l		98
65) Chlorobenzene	10.079	112	608404	149.428 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.165	131	218515	166.991 ug/l		100
67) Ethyl Benzene	10.195	91	1068736	151.917 ug/l		98
68) m/p-Xylenes	10.299	106	806058	312.254 ug/l		98
69) o-Xylene	10.640	106	397084	152.030 ug/l		98
70) Styrene	10.652	104	670887	160.228 ug/l		98
71) Bromoform	10.799	173	169450	150.034 ug/l	#	99
73) Isopropylbenzene	10.963	105	1021749	146.832 ug/l		99
74) N-amyl acetate	10.841	43	536496	166.823 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	352591	145.883 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	287602m	139.434 ug/l		
77) Bromobenzene	11.201	156	243975	144.584 ug/l		100
78) n-propylbenzene	11.305	91	1166255	151.637 ug/l		98
79) 2-Chlorotoluene	11.366	91	700673	140.866 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	853042	147.824 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	117263	152.670 ug/l		93
82) 4-Chlorotoluene	11.451	91	825278	149.831 ug/l		99
83) tert-Butylbenzene	11.713	119	846864	148.495 ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	846771	149.414 ug/l		100
85) sec-Butylbenzene	11.890	105	1034419	149.409 ug/l		99
86) p-Isopropyltoluene	12.006	119	875562	151.944 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	443826	150.575 ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	442556	146.058 ug/l		99
89) n-Butylbenzene	12.329	91	808399	166.836 ug/l		100
90) Hexachloroethane	12.536	117	154726	183.942 ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	447931	146.357 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	83565	178.106 ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	288519	171.952 ug/l		98
94) Hexachlorobutadiene	13.725	225	103961	154.036 ug/l		98
95) Naphthalene	13.774	128	1094997	167.187 ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	293760	165.064 ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

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

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
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ClientSampleId :
VSTDICC150

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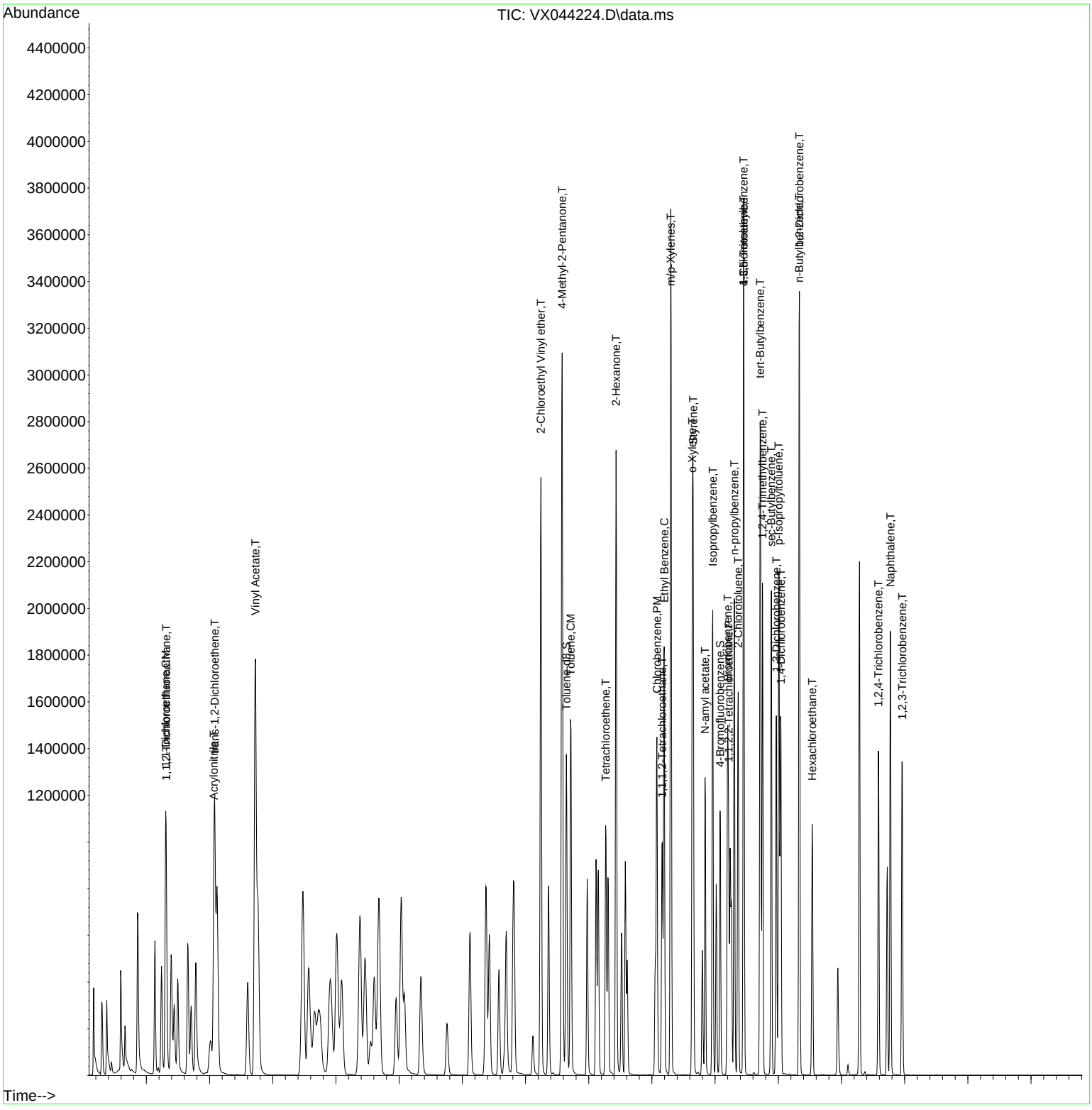
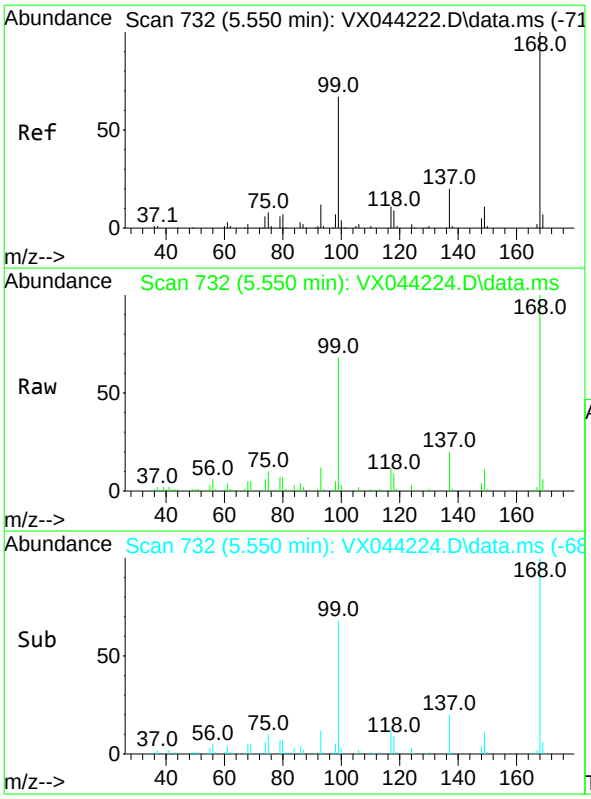
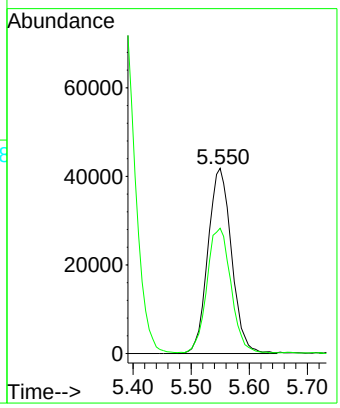




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:168 Resp: 117957

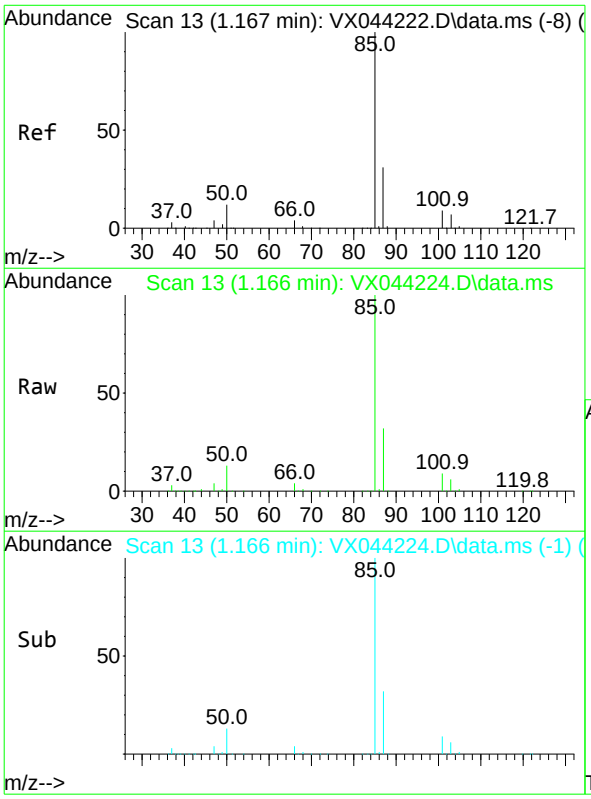
Ion	Ratio	Lower	Upper
168	100		
99	67.2	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

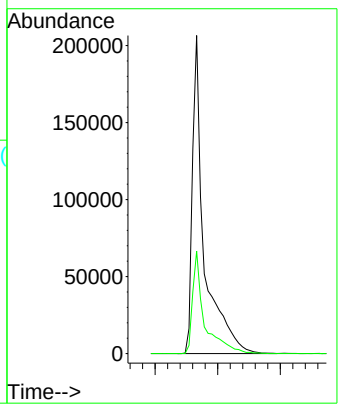
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

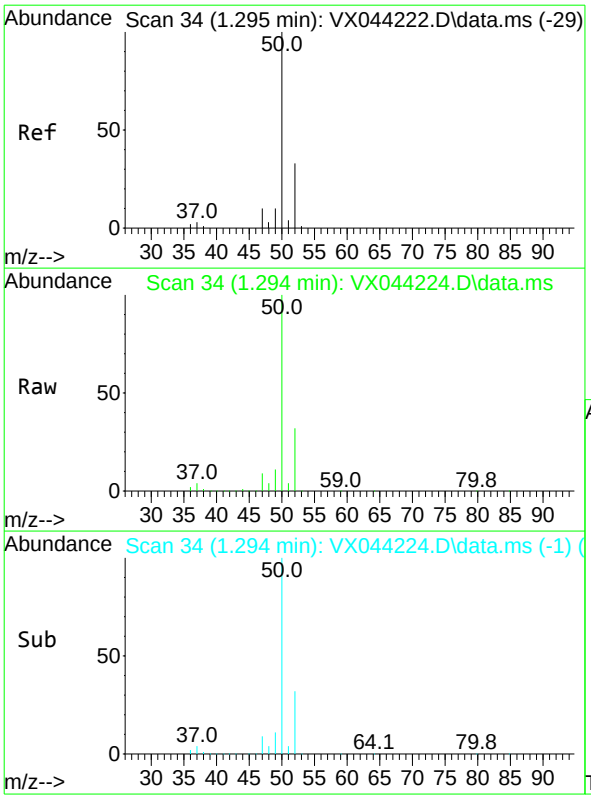


#2
Dichlorodifluoromethane
Concen: 147.342 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 85 Resp: 268739

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.4	46.4

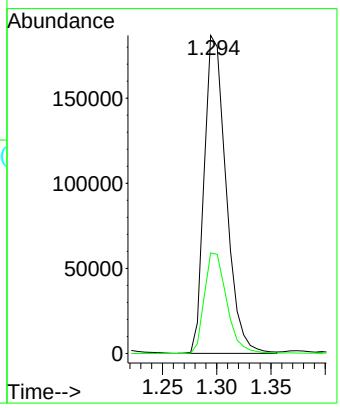




#3
Chloromethane
Concen: 150.062 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 50 Resp: 261734

Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
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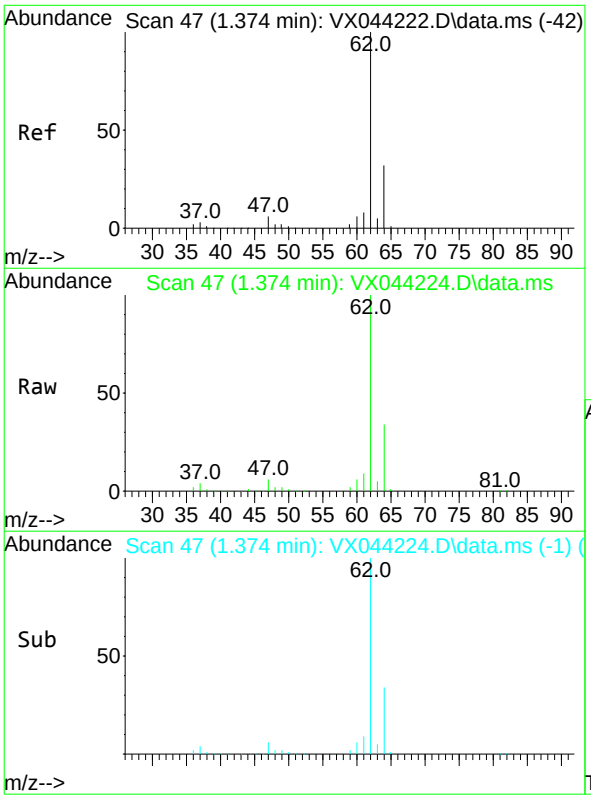
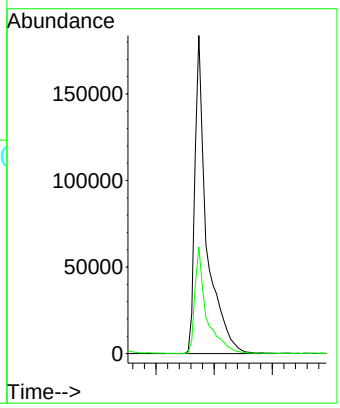
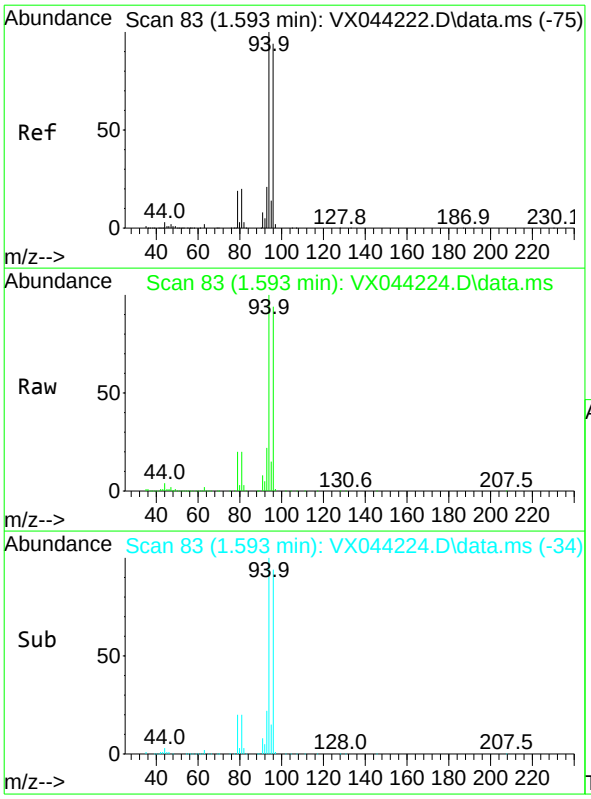


#4
Vinyl Chloride
Concen: 143.446 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 260651

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.7	38.5

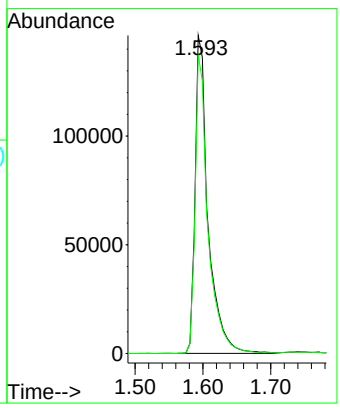




#5
Bromomethane
Concen: 150.562 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 94 Resp: 194089

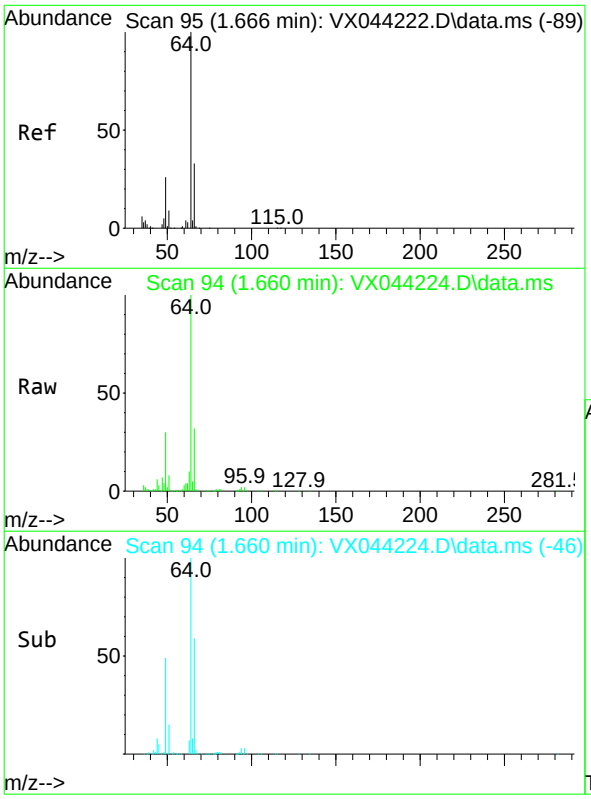
Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

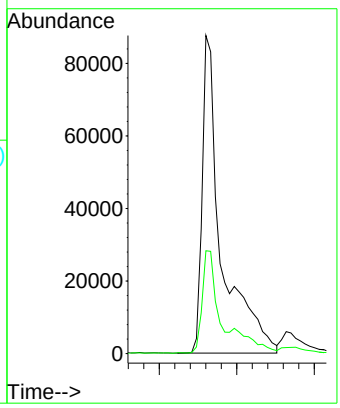
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

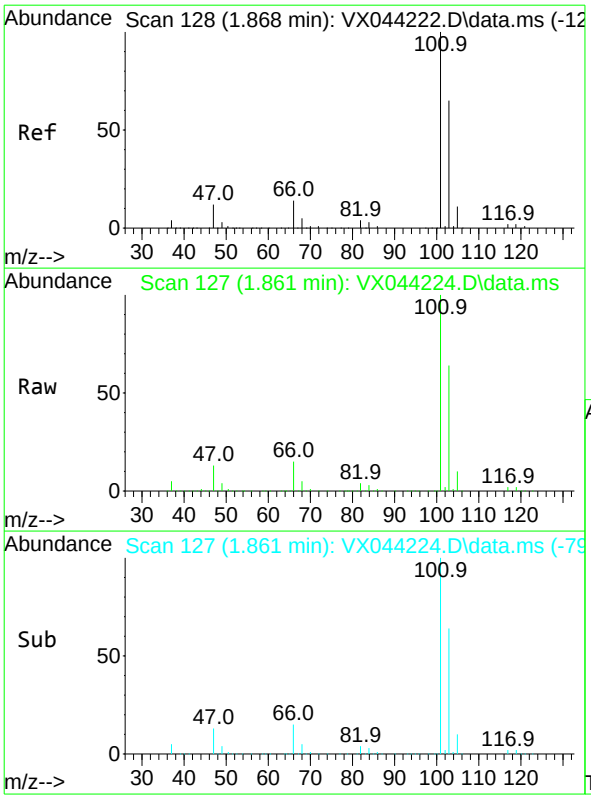


#6
Chloroethane
Concen: 133.137 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 64 Resp: 150640

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.6	39.8

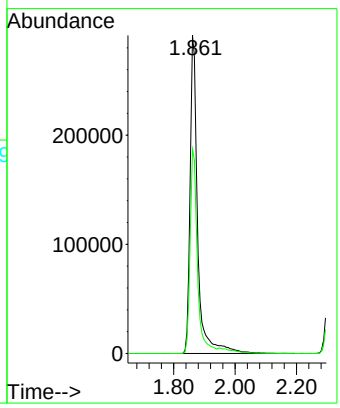




#7
Trichlorofluoromethane
Concen: 140.645 ug/l
RT: 1.861 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:101 Resp: 500315

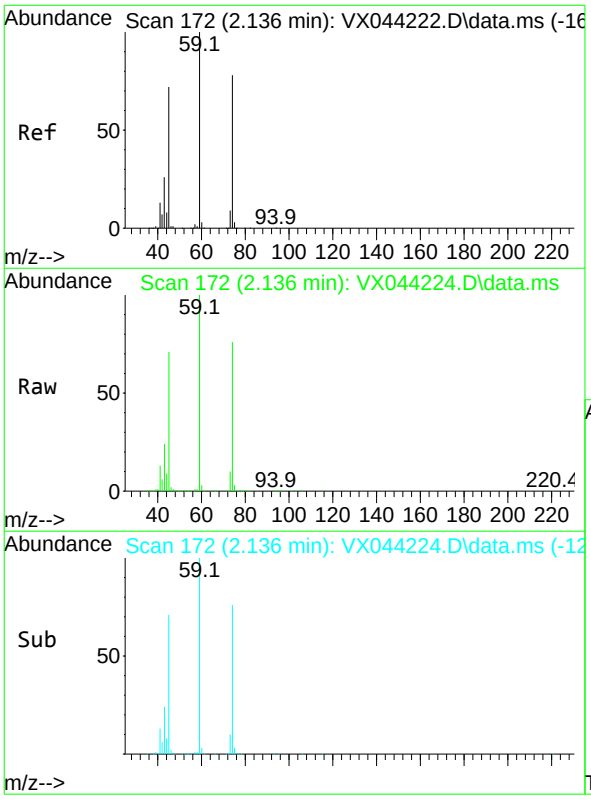
Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

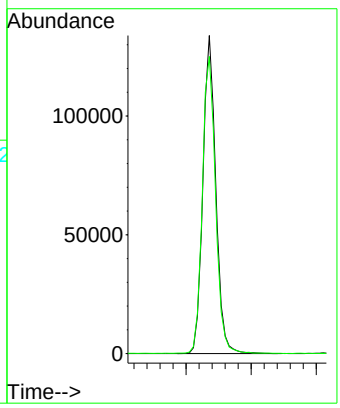
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

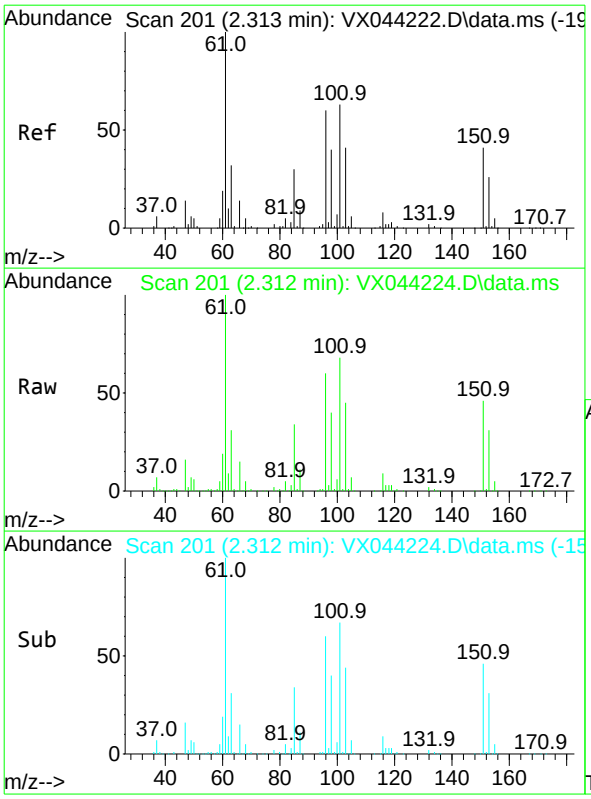


#8
Diethyl Ether
Concen: 151.407 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 74 Resp: 183845

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.4	145.0

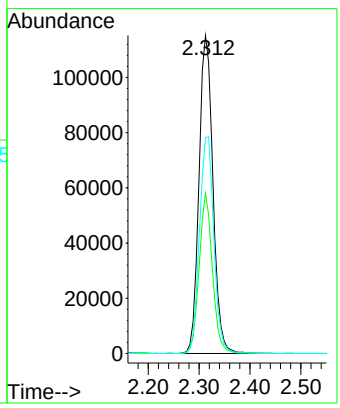




#9
1,1,2-Trichlorotrifluoroethane
Concen: 152.497 ug/l
RT: 2.312 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:101 Resp: 219513

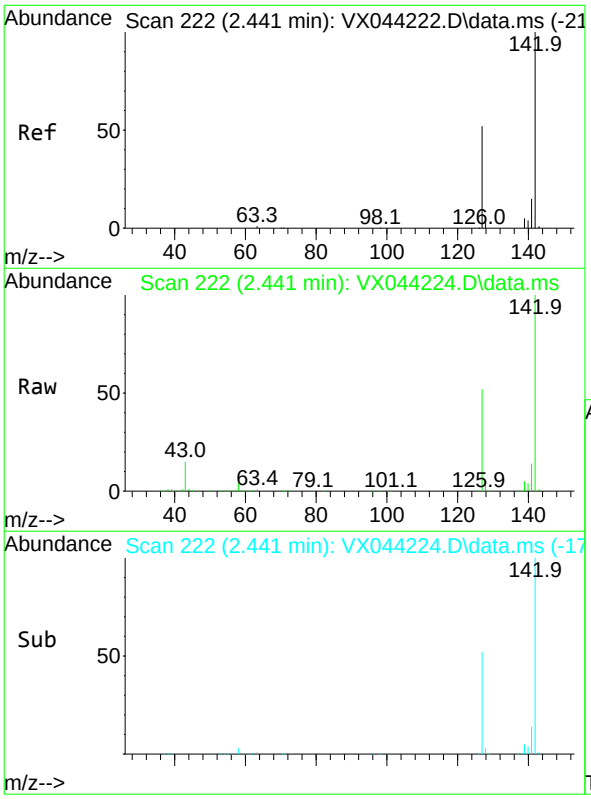
Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.5	57.7
151	70.5	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

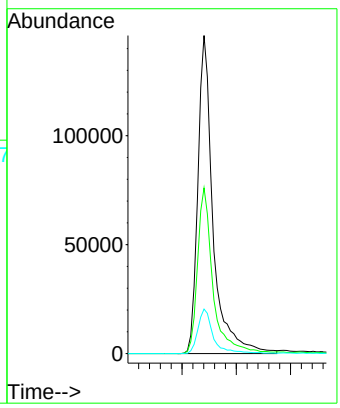
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

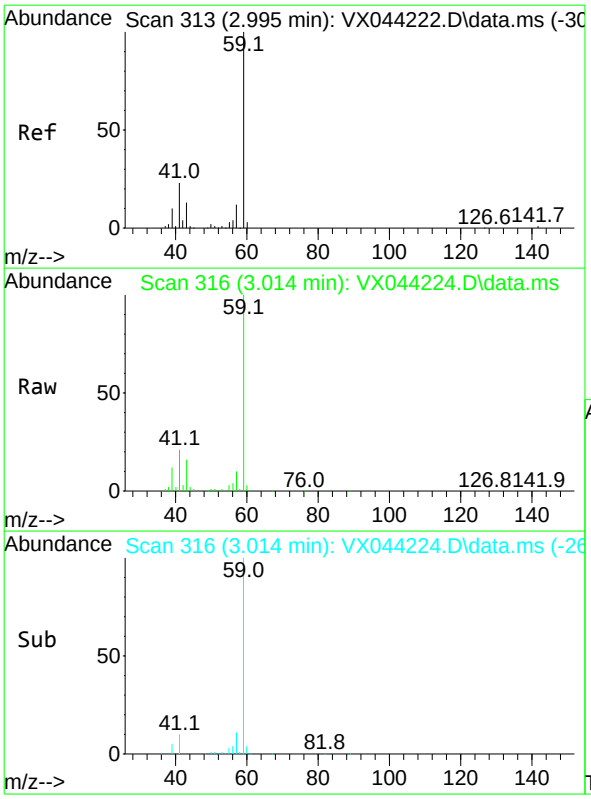


#10
Methyl Iodide
Concen: 149.795 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:142 Resp: 284184

Ion	Ratio	Lower	Upper
142	100		
127	52.8	41.8	62.8
141	14.2	11.5	17.3

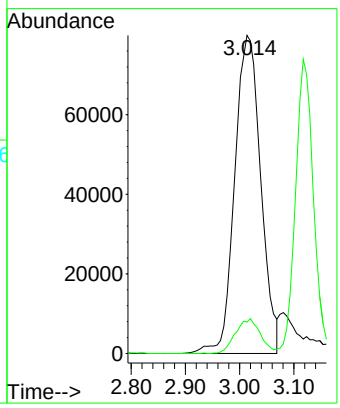




#11
Tert butyl alcohol
Concen: 916.880 ug/l
RT: 3.014 min Scan# 31
Delta R.T. 0.018 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 59 Resp: 266830

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
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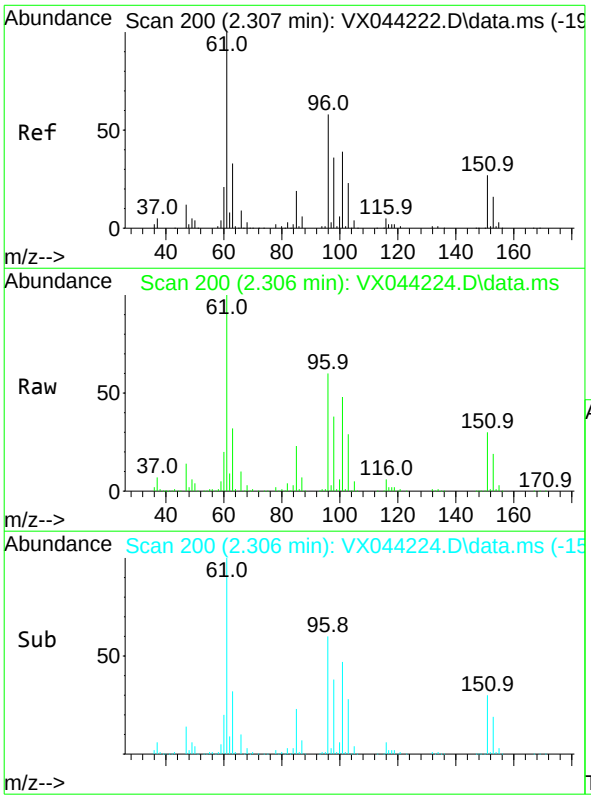
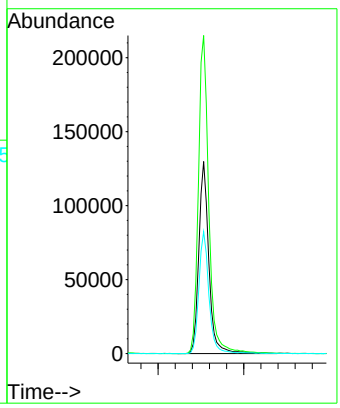
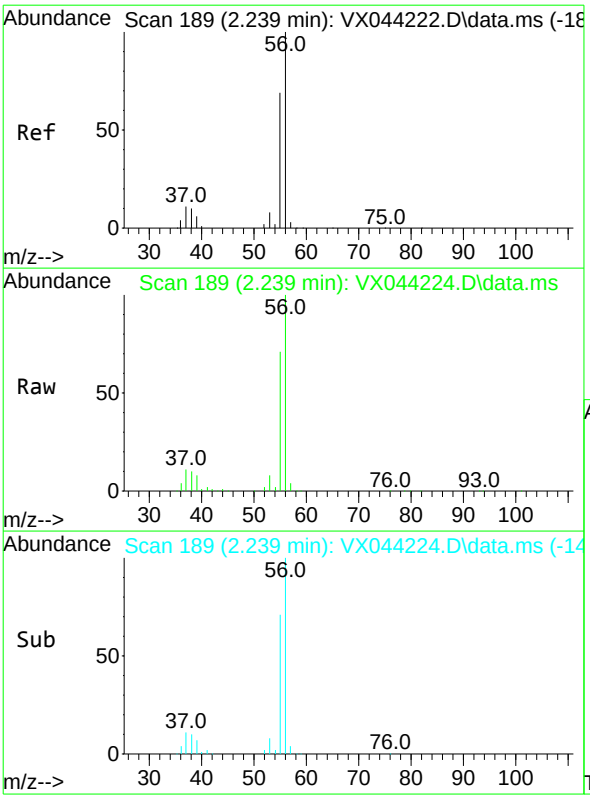


#12
1,1-Dichloroethene
Concen: 159.600 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 96 Resp: 211016

Ion	Ratio	Lower	Upper
96	100		
61	165.6	138.0	207.0
98	63.5	50.0	75.0

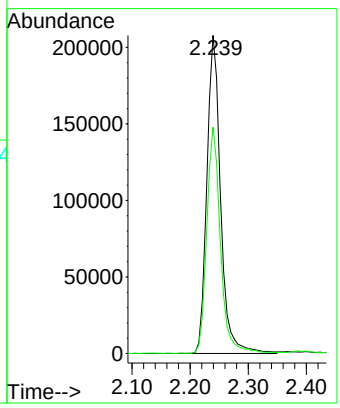




#13
Acrolein
Concen: 809.350 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 56 Resp: 341487

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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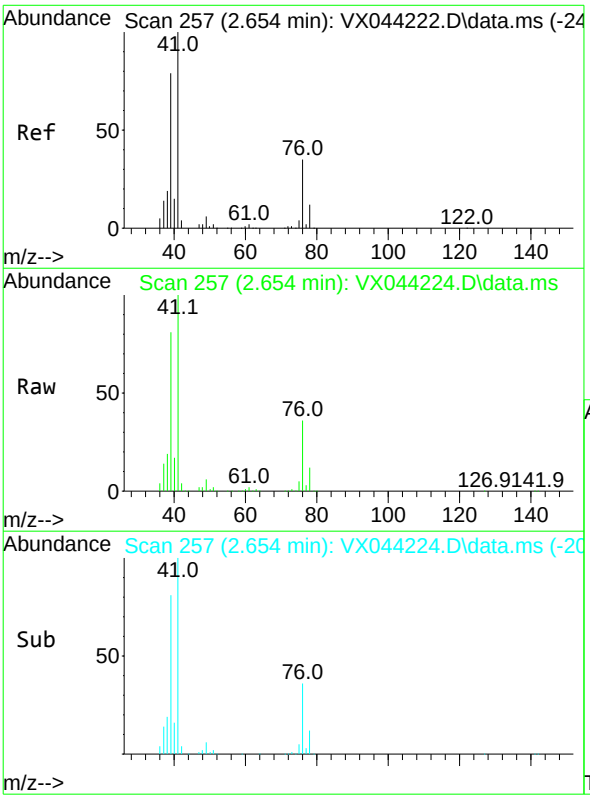
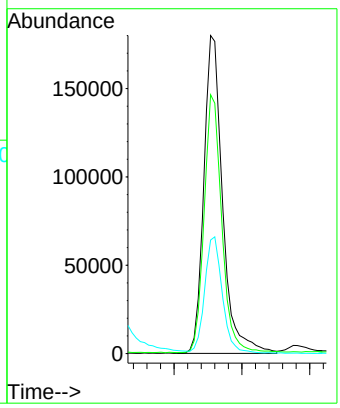
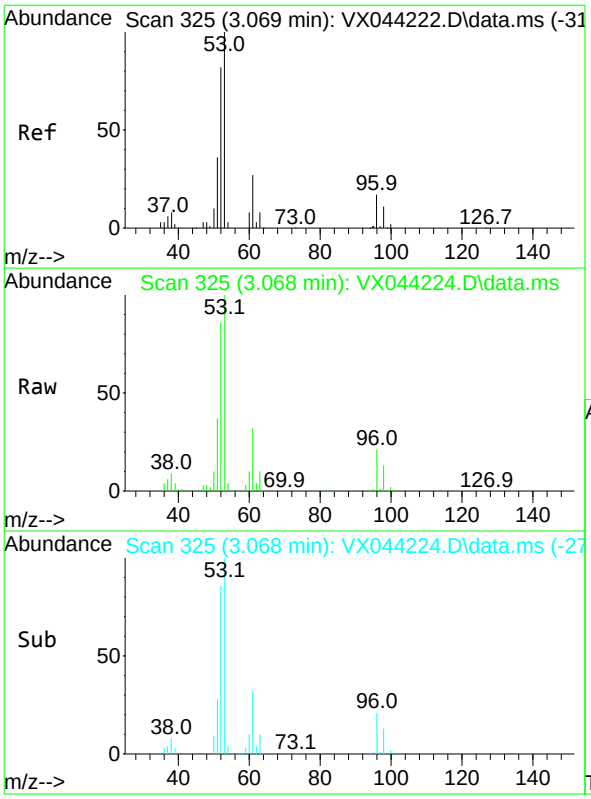


#14
Allyl chloride
Concen: 157.465 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 346773

Ion	Ratio	Lower	Upper
41	100		
39	76.1	61.9	92.9
76	34.5	27.4	41.2

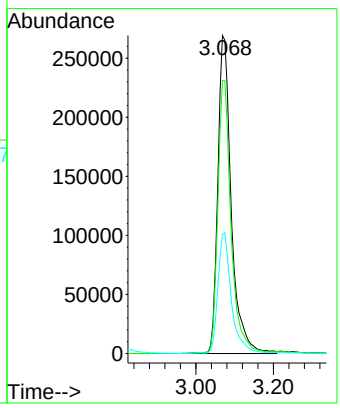




#15
Acrylonitrile
Concen: 804.774 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 53 Resp: 649783

Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.0
51	37.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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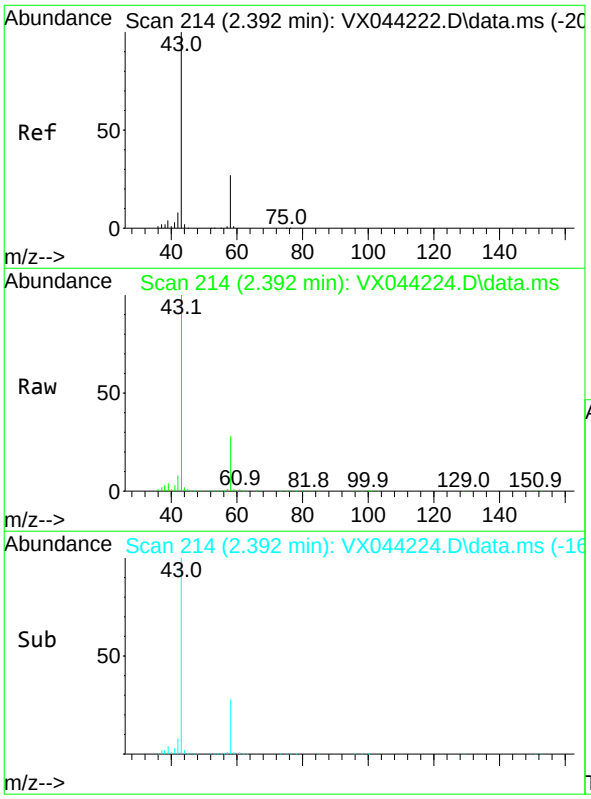
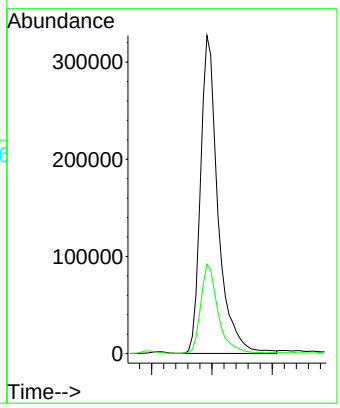
Supervised By :Mahesh Dadoda 12/12/2024

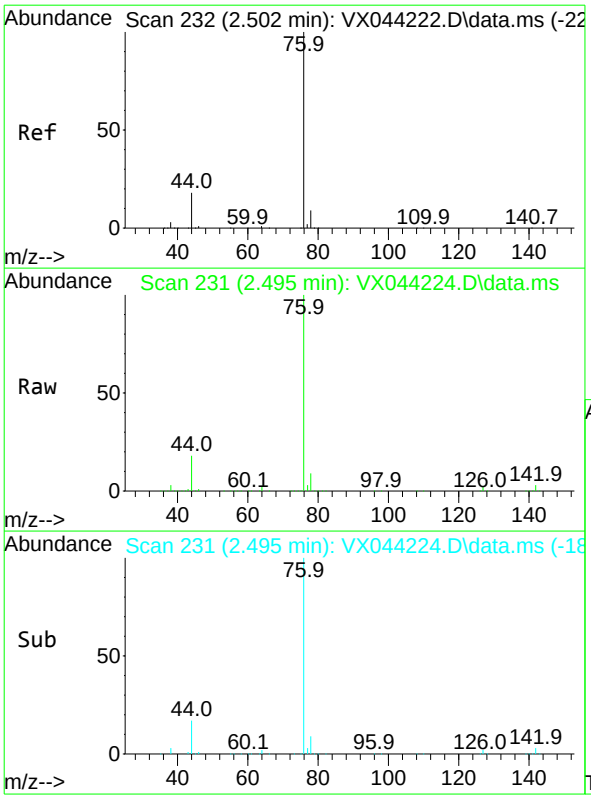


#16
Acetone
Concen: 780.537 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 658120

Ion	Ratio	Lower	Upper
43	100		
58	28.1	21.6	32.4

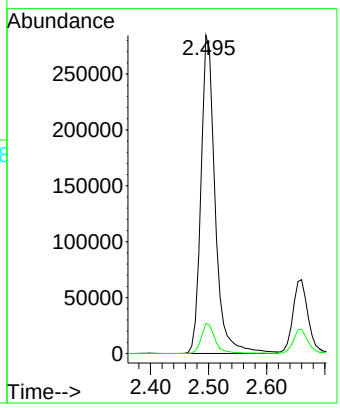




#17
Carbon Disulfide
Concen: 191.754 ug/l
RT: 2.495 min Scan# 23
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 76 Resp: 481926

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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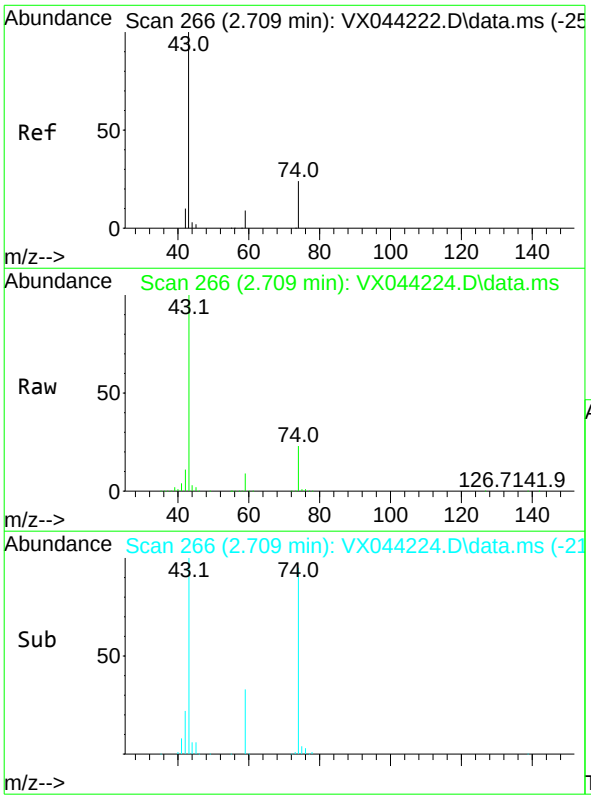
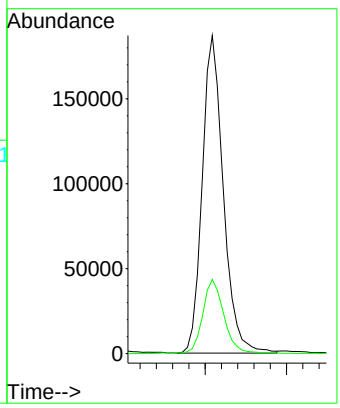
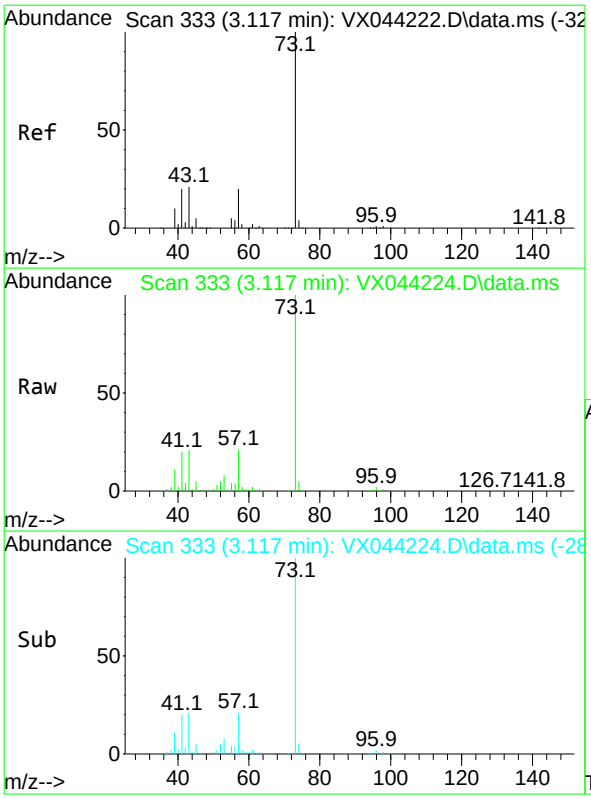


#18
Methyl Acetate
Concen: 154.792 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 336516

Ion	Ratio	Lower	Upper
43	100		
74	23.7	17.7	26.5

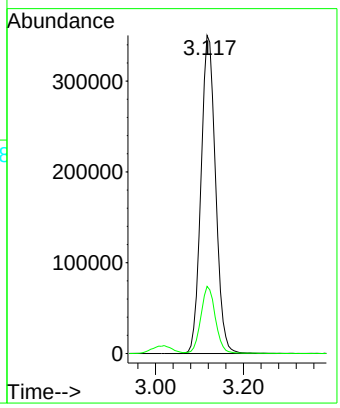




#19
Methyl tert-butyl Ether
Concen: 156.286 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 73 Resp: 806360

Ion	Ratio	Lower	Upper
73	100		
57	21.1	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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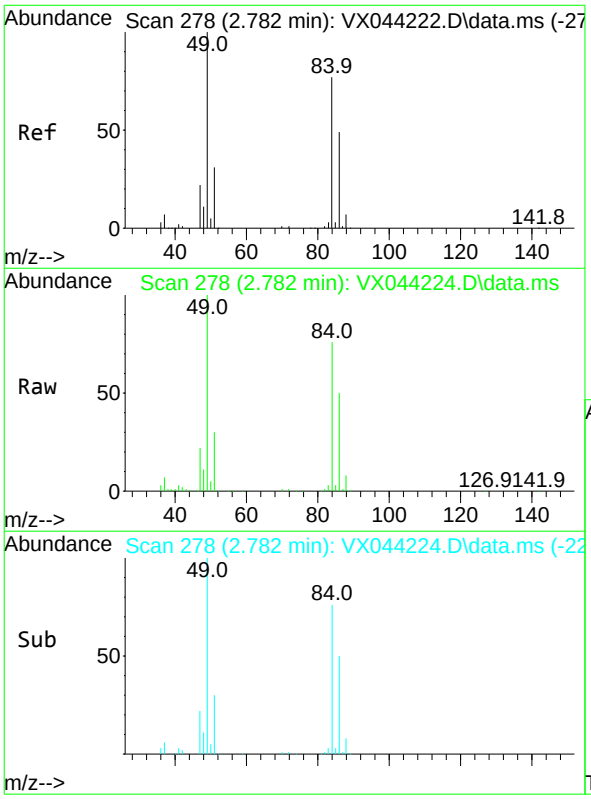
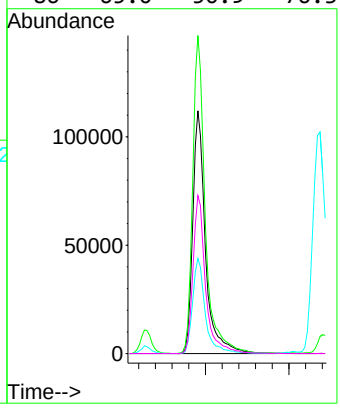
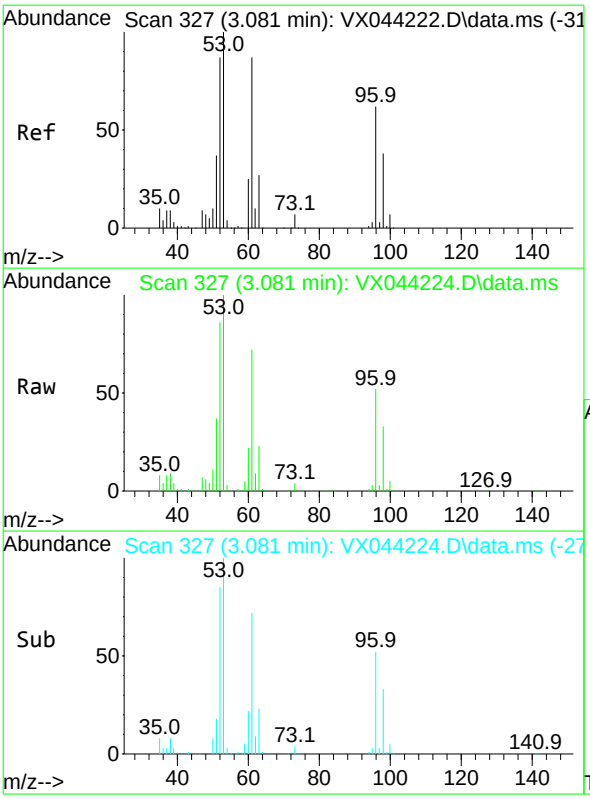


#20
Methylene Chloride
Concen: 149.282 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 84 Resp: 236412

Ion	Ratio	Lower	Upper
84	100		
49	130.9	104.2	156.4
51	39.1	32.2	48.4
86	65.0	50.9	76.3

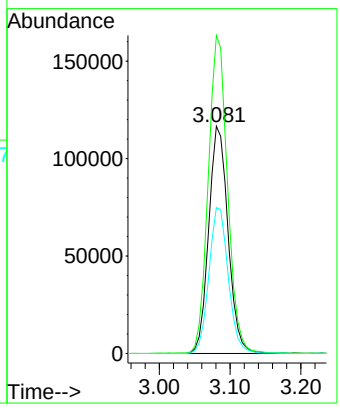




#21
trans-1,2-Dichloroethene
Concen: 157.719 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 96 Resp: 221622

Ion	Ratio	Lower	Upper
96	100		
61	139.7	112.0	168.0
98	64.2	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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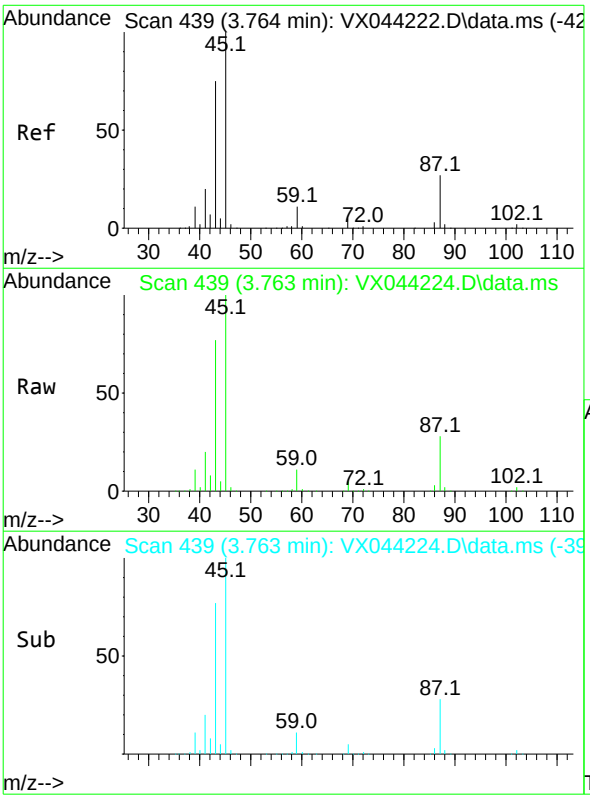
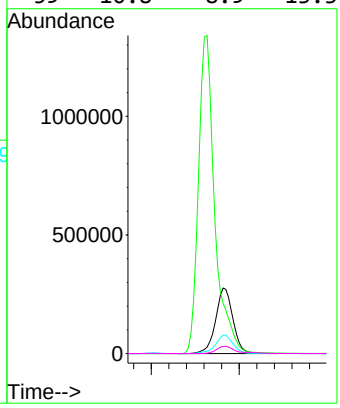
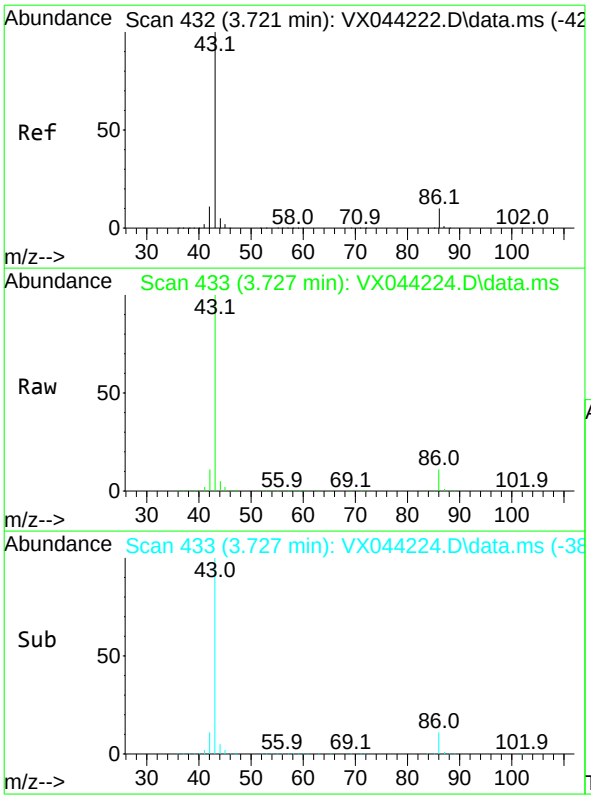


#22
Diisopropyl ether
Concen: 151.500 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 45 Resp: 751292

Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.0	21.2	31.8
59	10.8	8.9	13.3

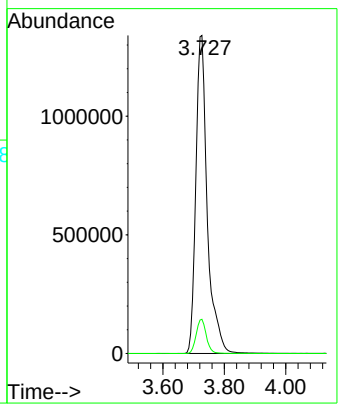




#23
Vinyl Acetate
Concen: 859.417 ug/l
RT: 3.727 min Scan# 43
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 3464902

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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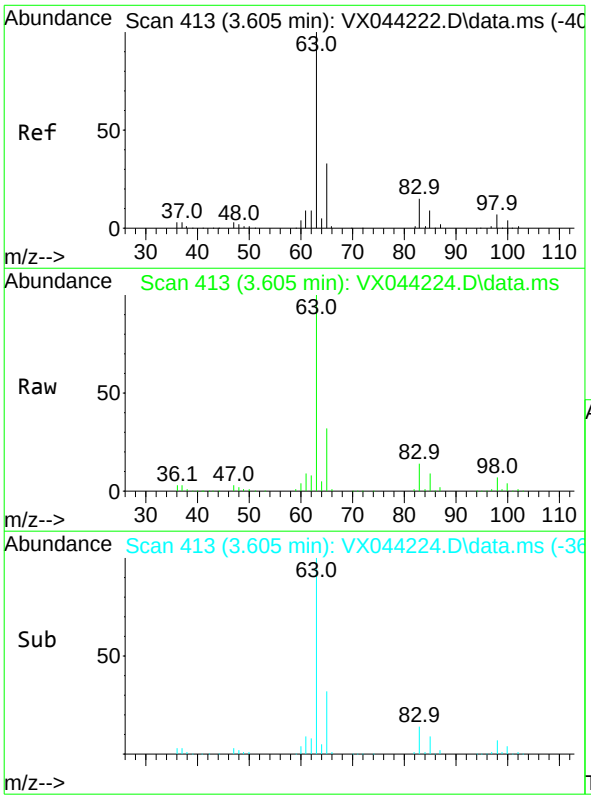
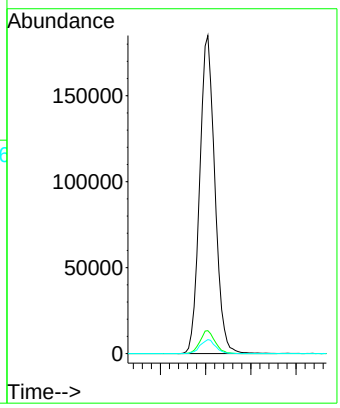
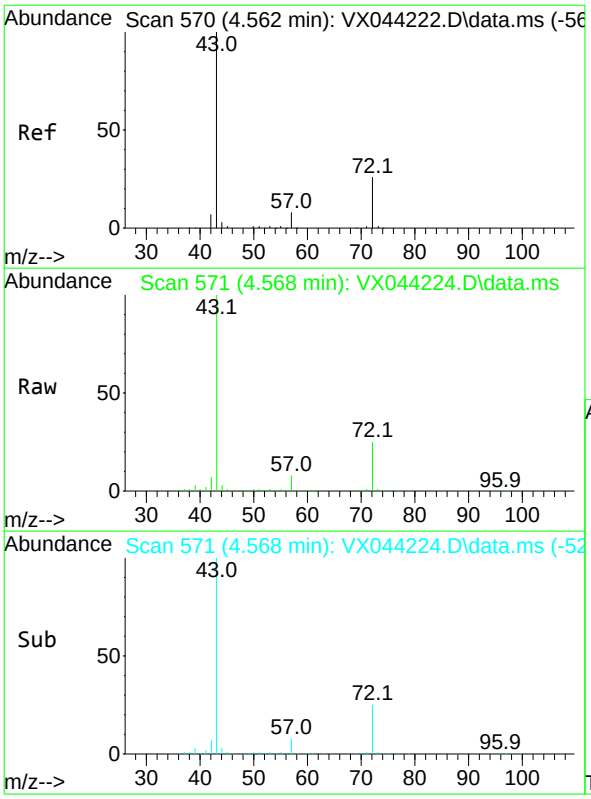


#24
1,1-Dichloroethane
Concen: 155.921 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 431006

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.4	2.1	6.3

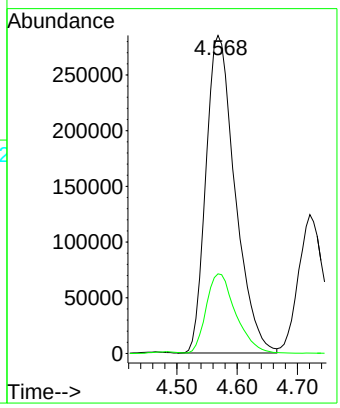




#25
2-Butanone
Concen: 798.973 ug/l
RT: 4.568 min Scan# 57
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 957709

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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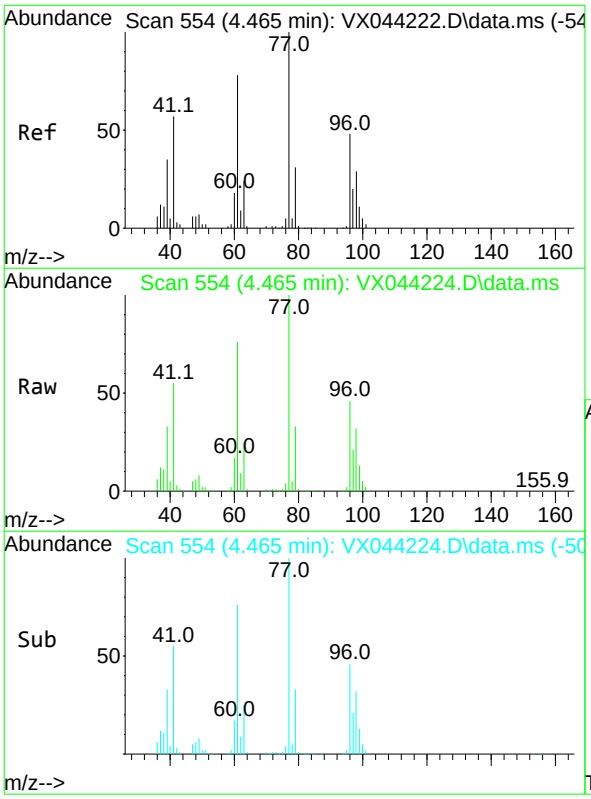
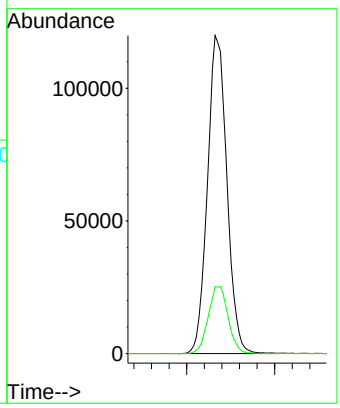
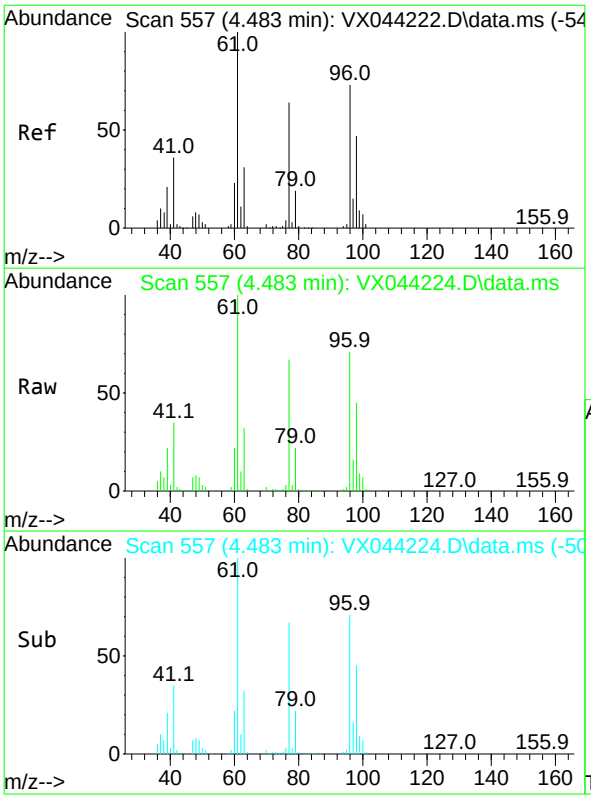


#26
2,2-Dichloropropane
Concen: 163.773 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 77 Resp: 367781

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.7	32.1

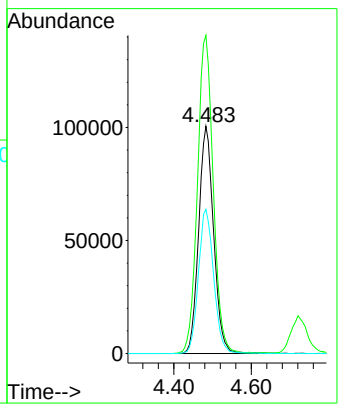




#27
cis-1,2-Dichloroethene
Concen: 151.131 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 96 Resp: 269708

Ion	Ratio	Lower	Upper
96	100		
61	147.2	0.0	299.0
98	64.7	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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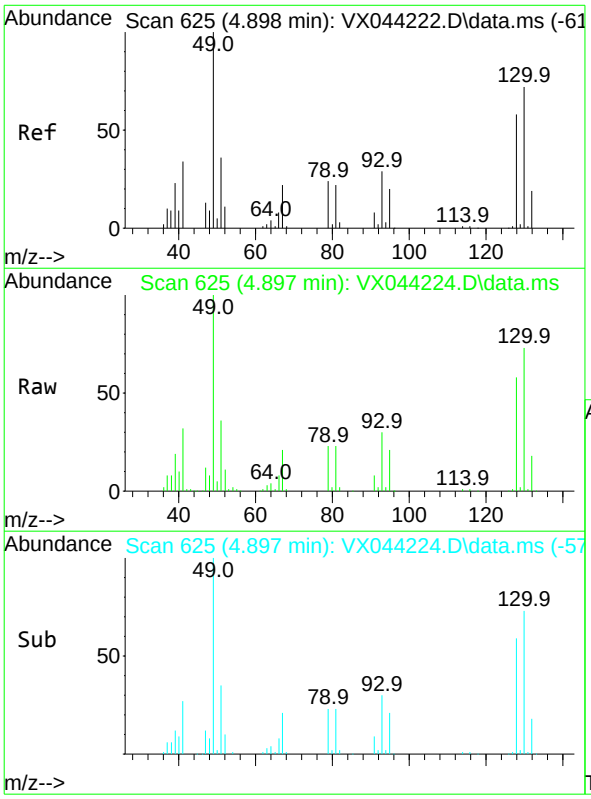
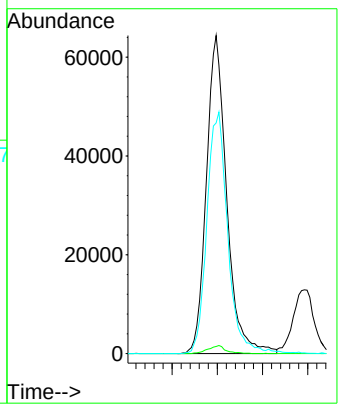
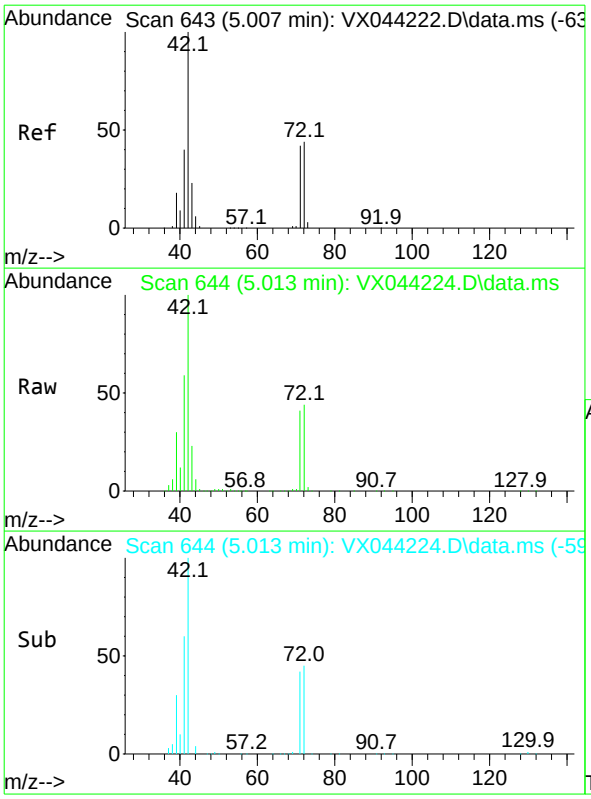


#28
Bromochloromethane
Concen: 148.269 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 49 Resp: 200978

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	77.2	62.1	93.1

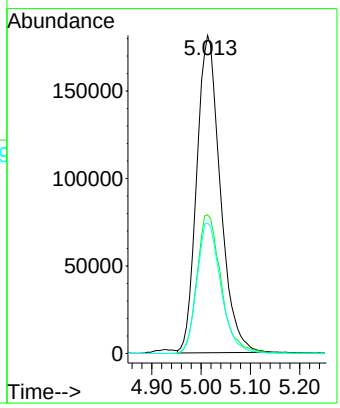




#29
Tetrahydrofuran
Concen: 782.561 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 42 Resp: 602095

Ion	Ratio	Lower	Upper
42	100		
72	44.8	37.0	55.6
71	41.7	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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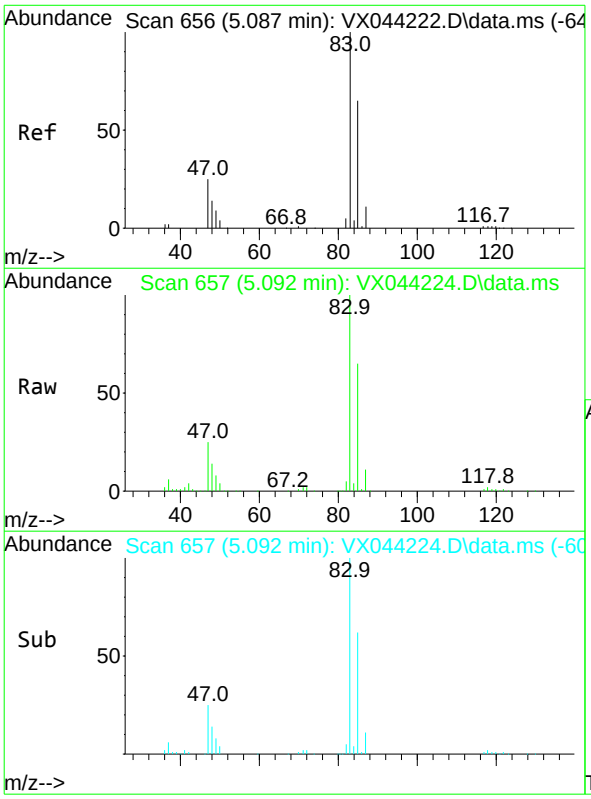
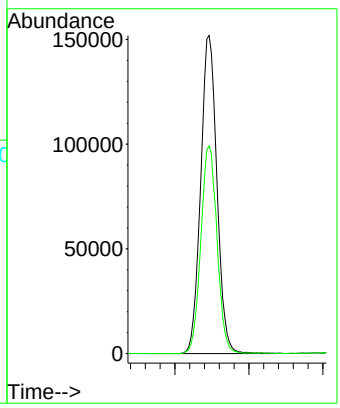
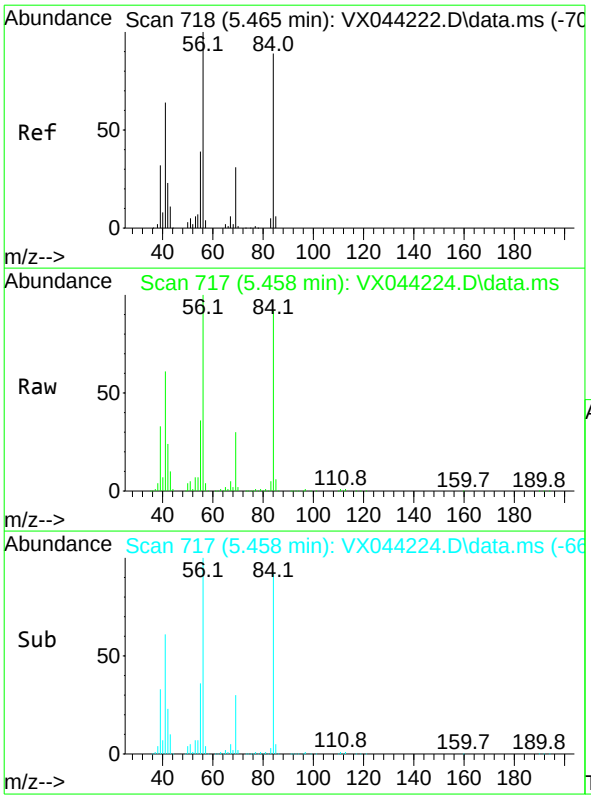


#30
Chloroform
Concen: 149.274 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 463606

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.6	77.4

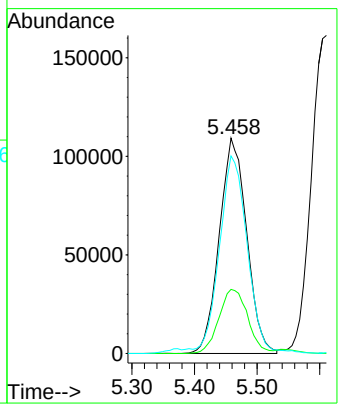




#31
Cyclohexane
Concen: 148.745 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 56 Resp: 332026

Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	90.1	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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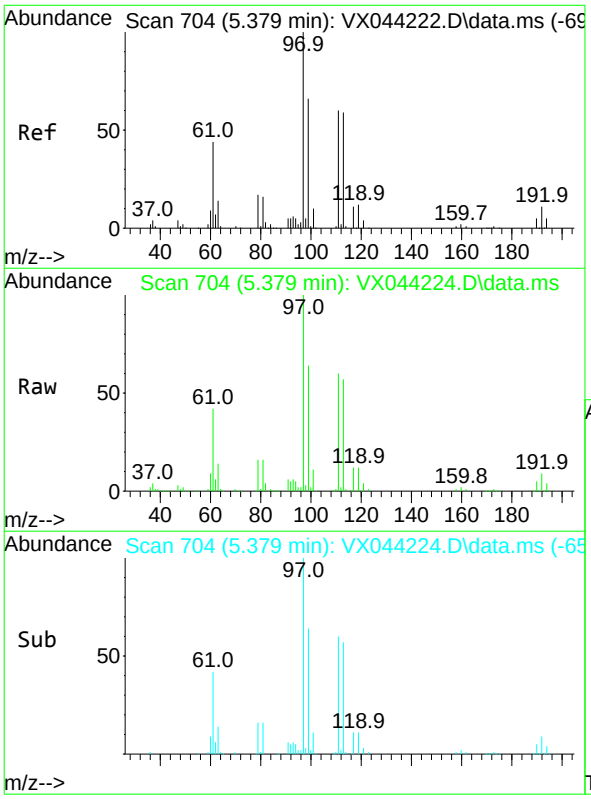
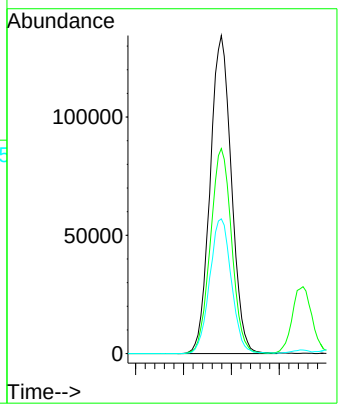
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

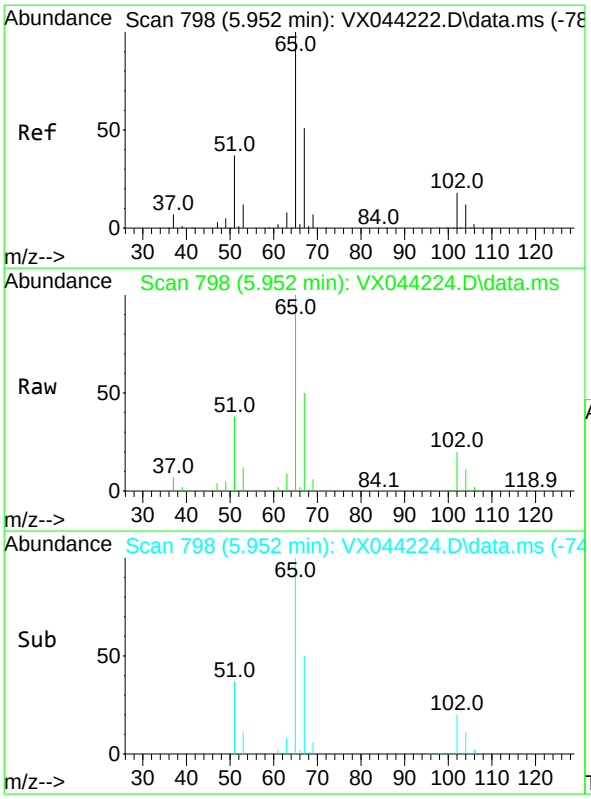


#32
1,1,1-Trichloroethane
Concen: 161.073 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 97 Resp: 415253

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	43.2	35.2	52.8

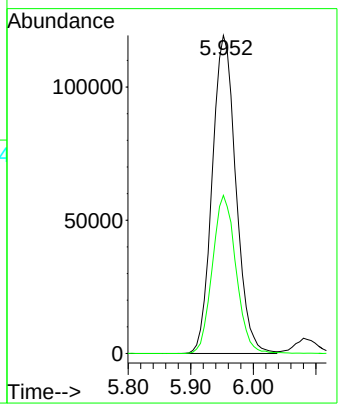




#33
1,2-Dichloroethane-d4
Concen: 151.956 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 65 Resp: 314272

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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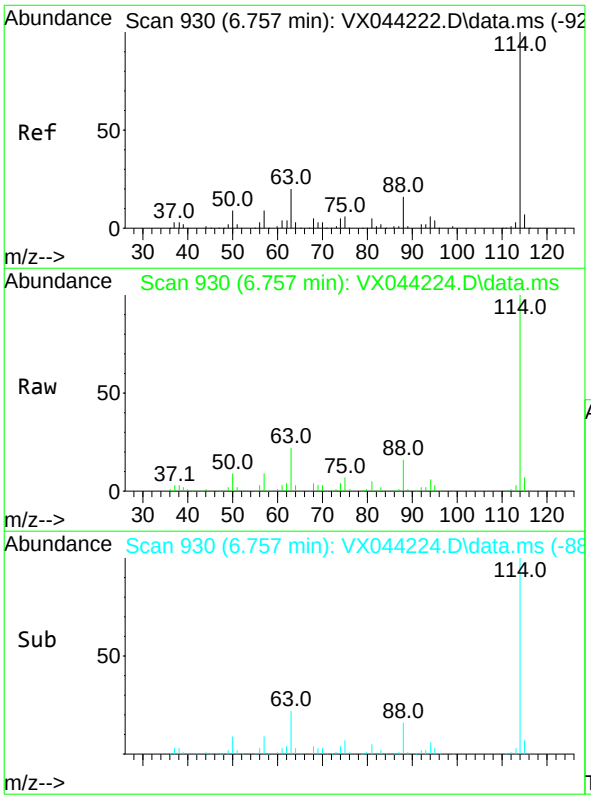
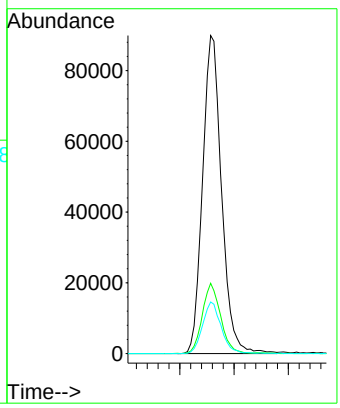
Supervised By :Mahesh Dadoda 12/12/2024

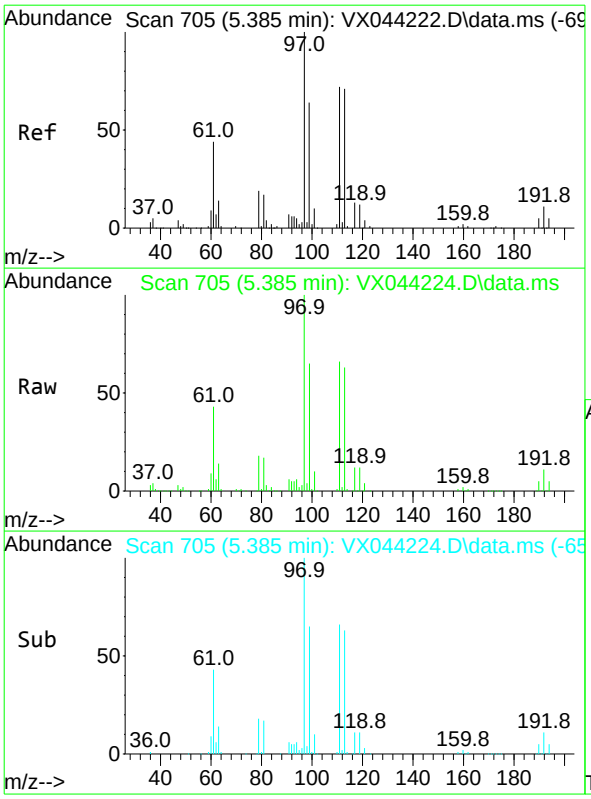


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:114 Resp: 218610

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.2	0.0	31.8

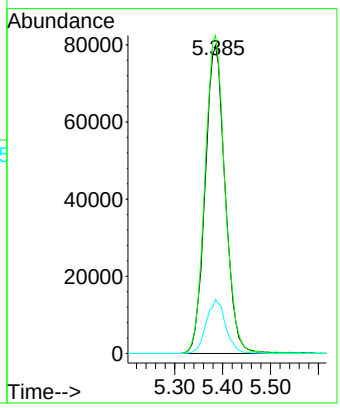




#35
Dibromofluoromethane
Concen: 153.188 ug/l
RT: 5.385 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:113 Resp: 231937

Ion	Ratio	Lower	Upper
113	100		
111	103.1	80.4	120.6
192	17.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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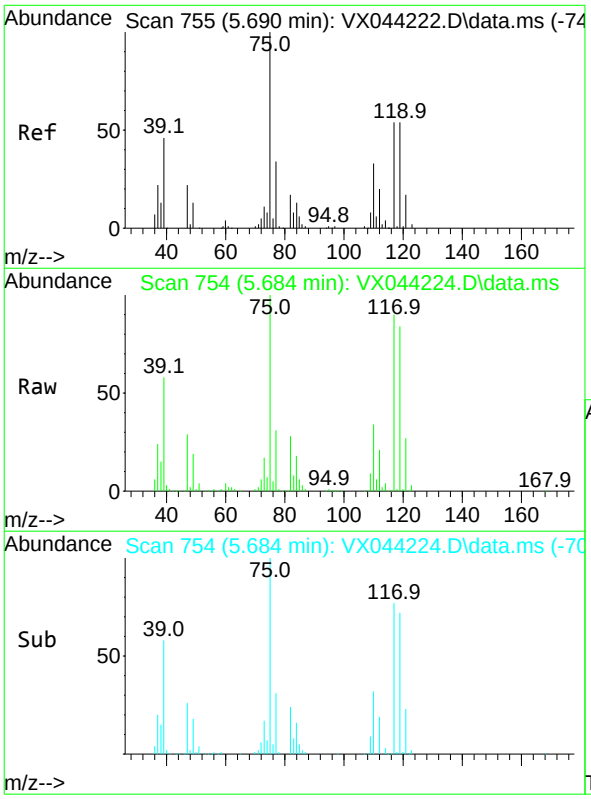
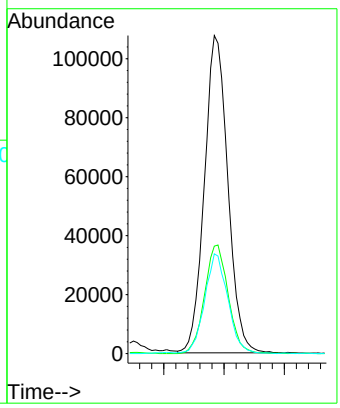
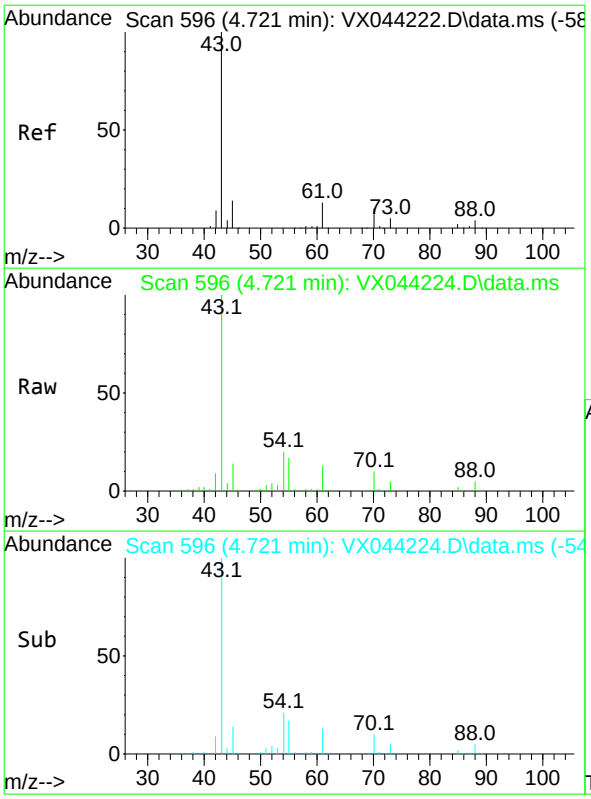


#36
1,1-Dichloropropene
Concen: 148.642 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 290913

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.7
77	31.1	25.4	38.0

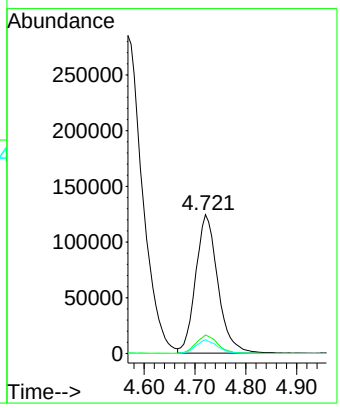




#37
Ethyl Acetate
Concen: 155.731 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 376757

Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.6	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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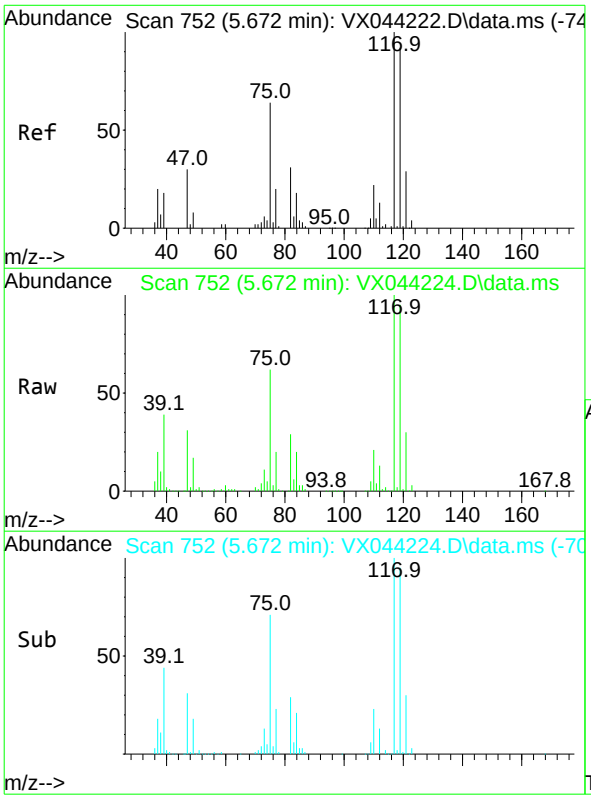
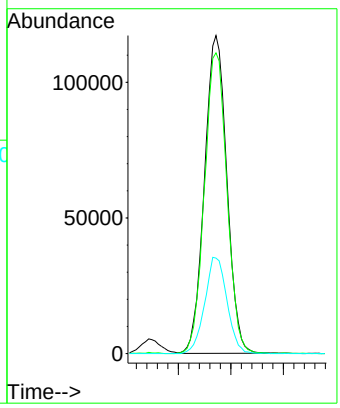
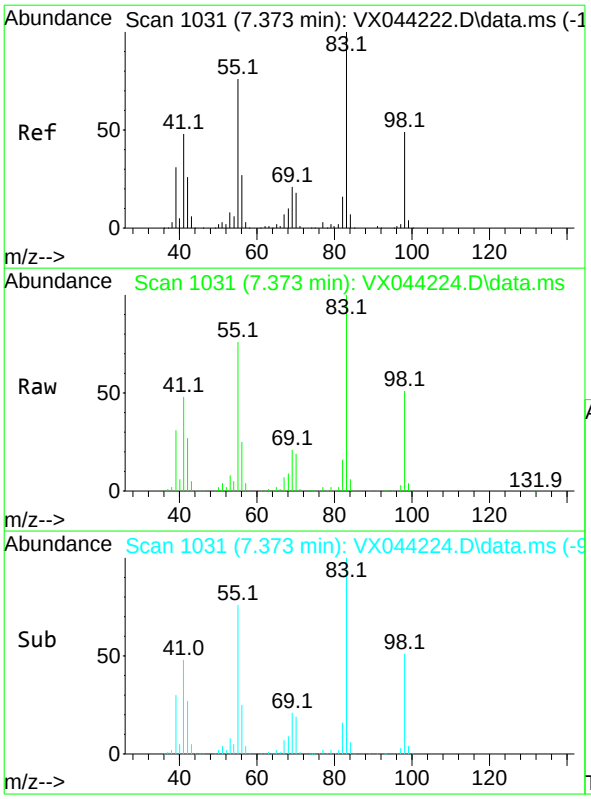


#38
Carbon Tetrachloride
Concen: 164.587 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 346795

Ion	Ratio	Lower	Upper
117	100		
119	94.6	74.2	111.4
121	30.1	23.0	34.6

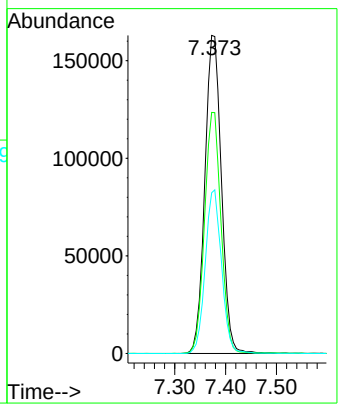




#39
Methylcyclohexane
Concen: 157.516 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 368542

Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.7	91.1
98	50.5	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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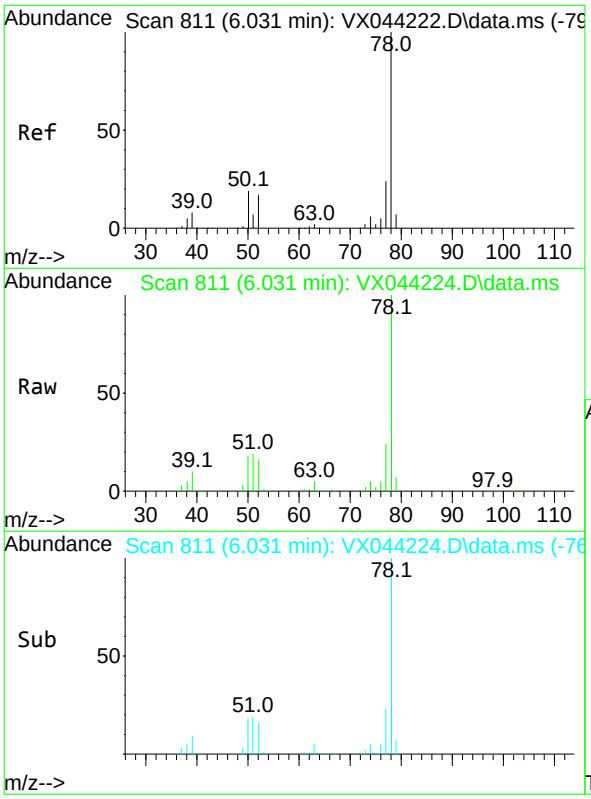
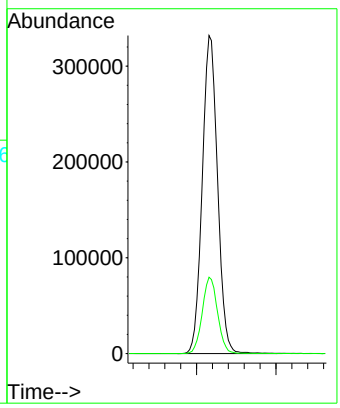
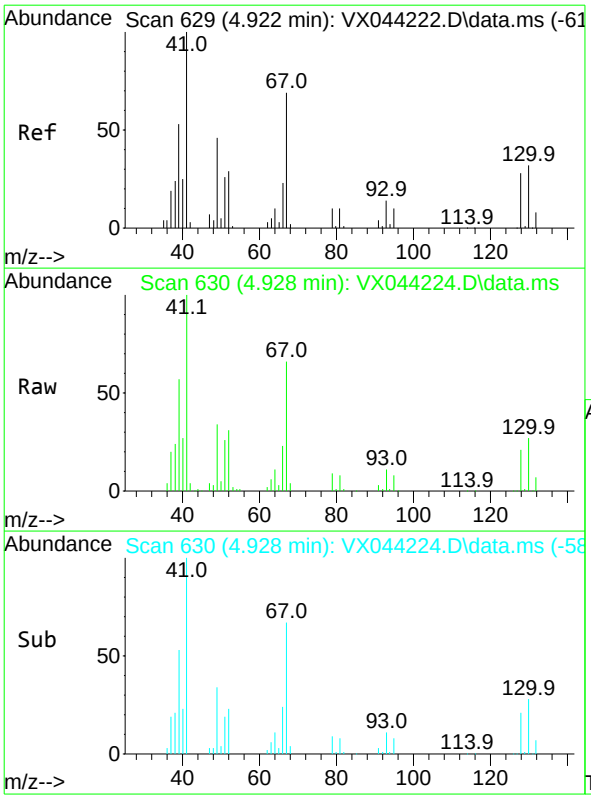


#40
Benzene
Concen: 149.340 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 78 Resp: 887413

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9

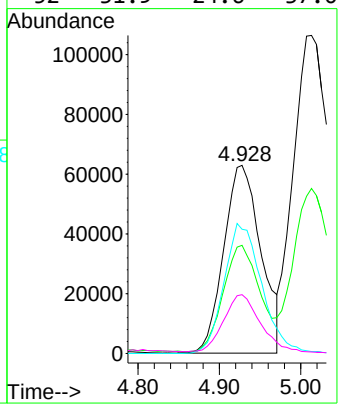




#41
Methacrylonitrile
Concen: 155.569 ug/l
RT: 4.928 min Scan# 63
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 199851

Ion	Ratio	Lower	Upper
41	100		
39	54.5	44.2	66.4
67	70.2	57.2	85.8
52	31.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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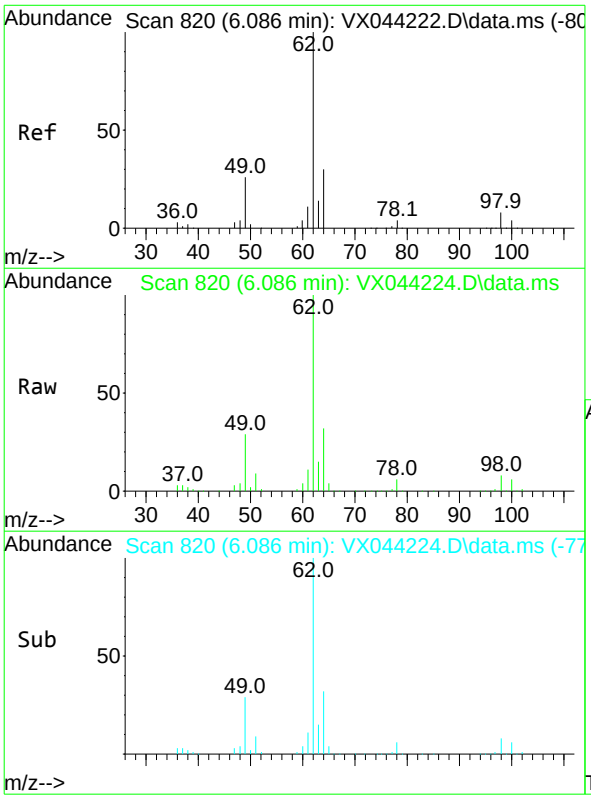
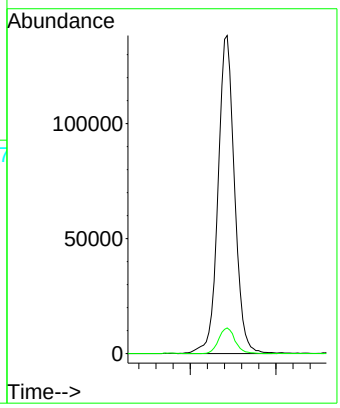
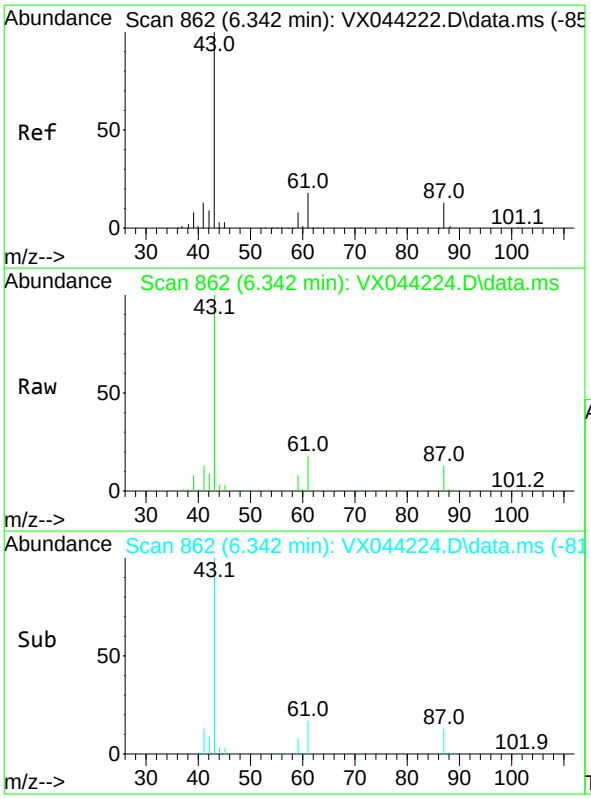


#42
1,2-Dichloroethane
Concen: 151.105 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 369874

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8

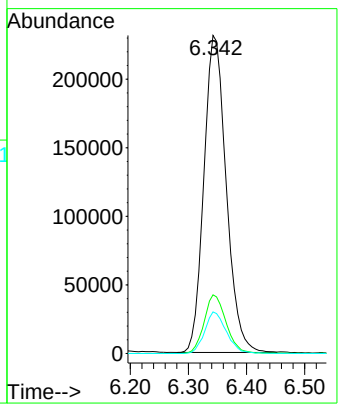




#43
Isopropyl Acetate
Concen: 163.200 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 617107

Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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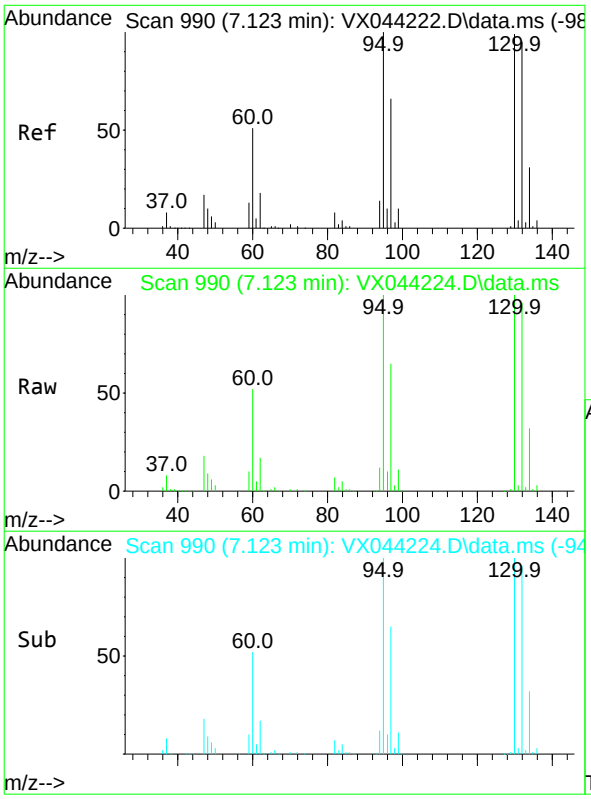
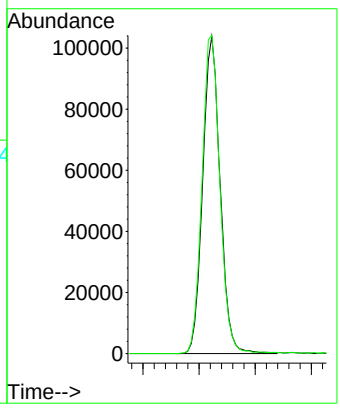
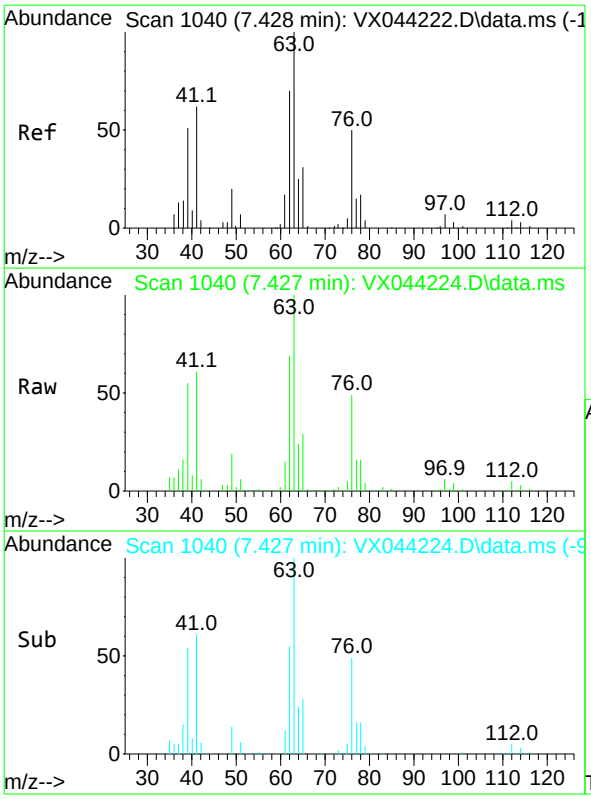


#44
Trichloroethene
Concen: 151.275 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:130 Resp: 224164

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	201.4

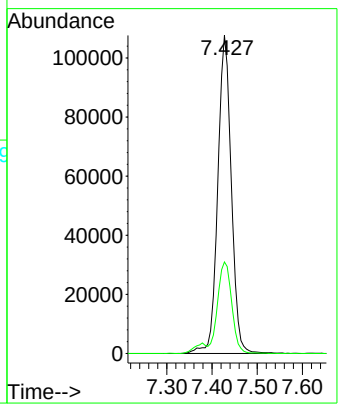




#45
1,2-Dichloropropane
Concen: 147.697 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 224224

Ion	Ratio	Lower	Upper
63	100		
65	28.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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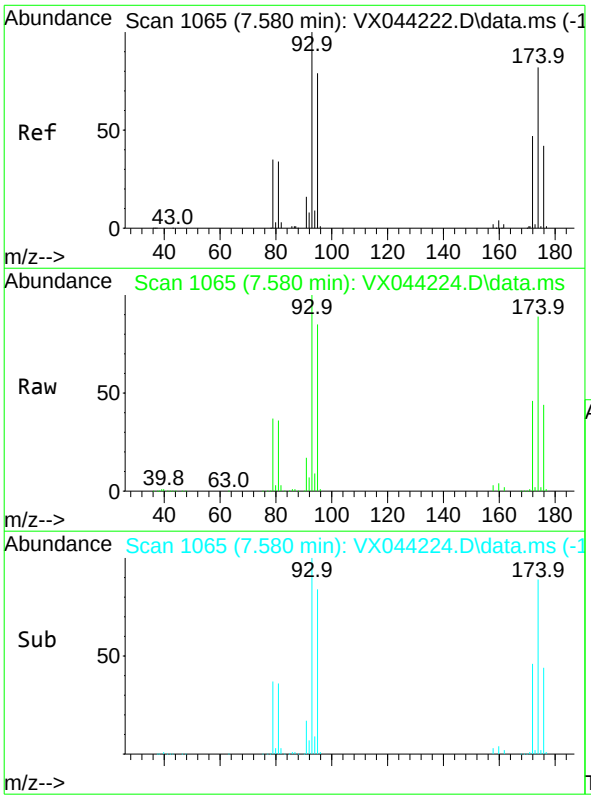
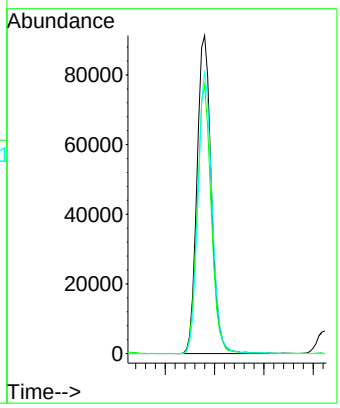
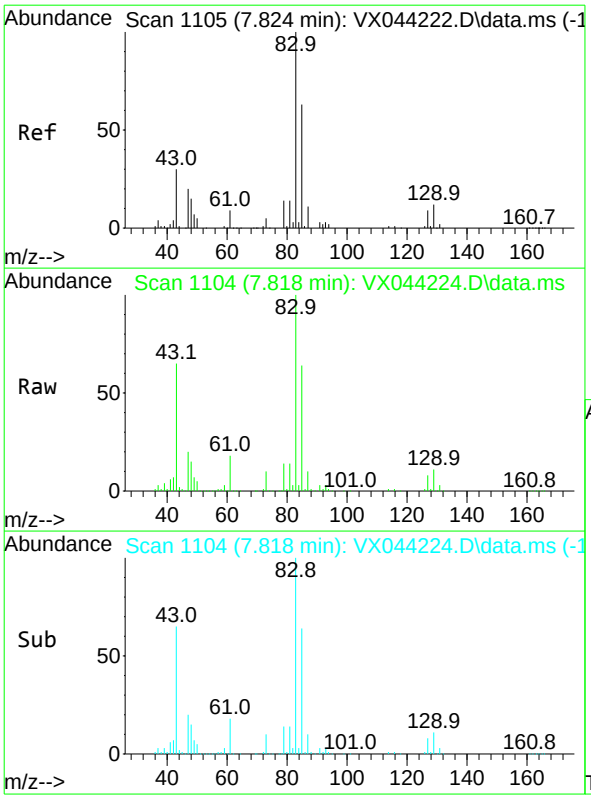


#46
Dibromomethane
Concen: 156.728 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 93 Resp: 184590

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.4	98.2
174	86.7	67.9	101.9

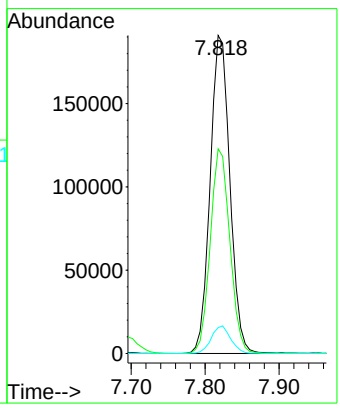




#47
Bromodichloromethane
Concen: 173.496 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 352904

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.6	75.8
127	8.1	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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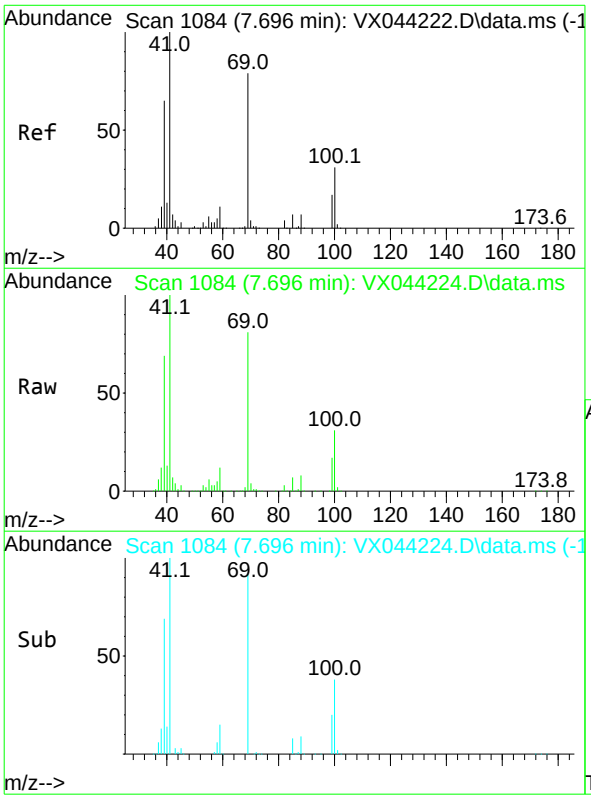
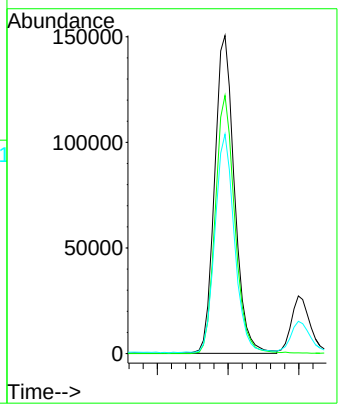
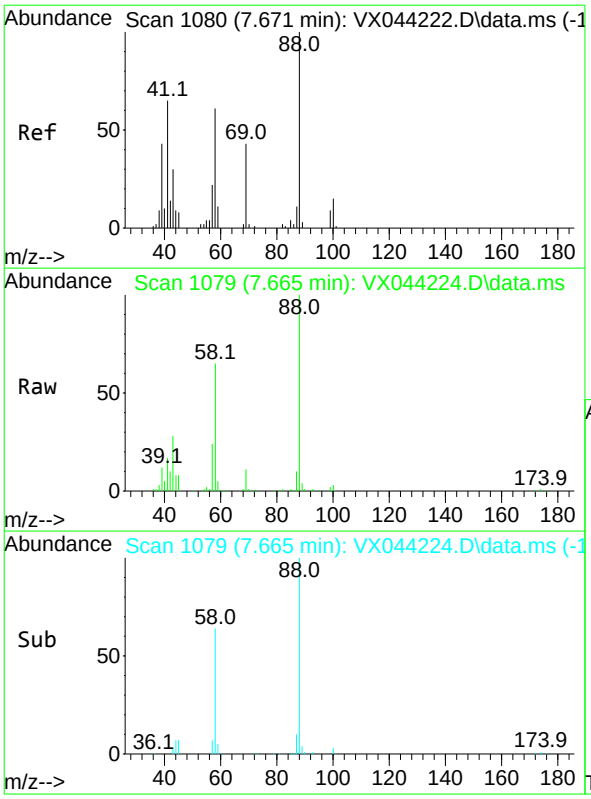


#48
Methyl methacrylate
Concen: 159.567 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 292890

Ion	Ratio	Lower	Upper
41	100		
69	80.0	62.4	93.6
39	67.8	53.3	79.9

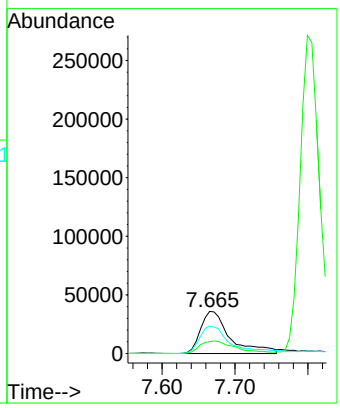




#49
1,4-Dioxane
Concen: 3221.248 ug/l m
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 88 Resp: 101048

Ion	Ratio	Lower	Upper
88	100		
43	35.1	27.1	40.7
58	69.6	41.0	61.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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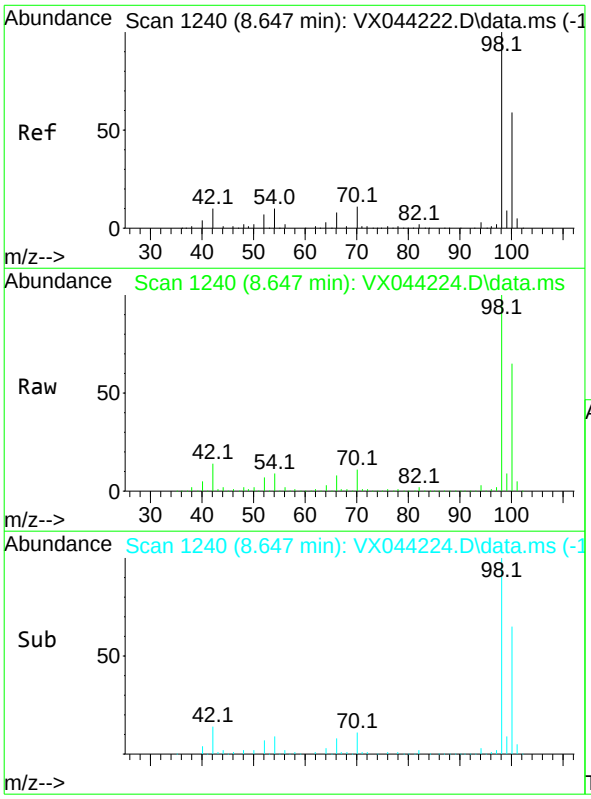
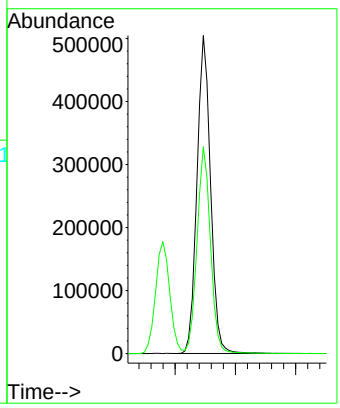
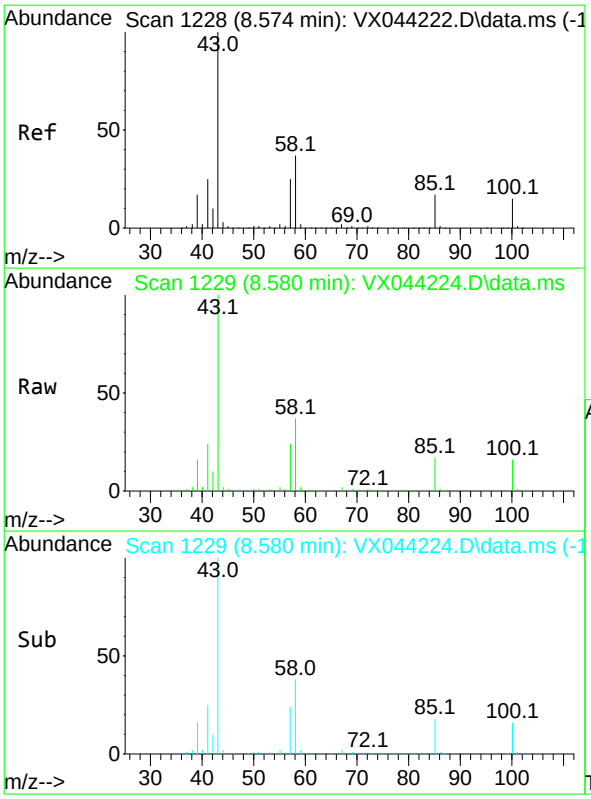


#50
Toluene-d8
Concen: 154.438 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 98 Resp: 788876

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3

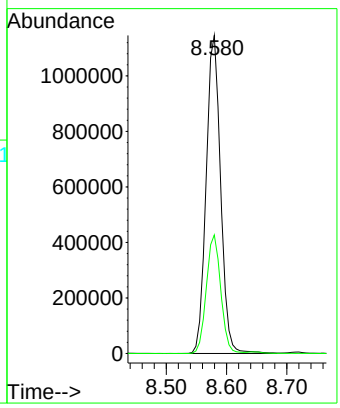




#51
4-Methyl-2-Pentanone
Concen: 784.573 ug/l
RT: 8.580 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 1907523

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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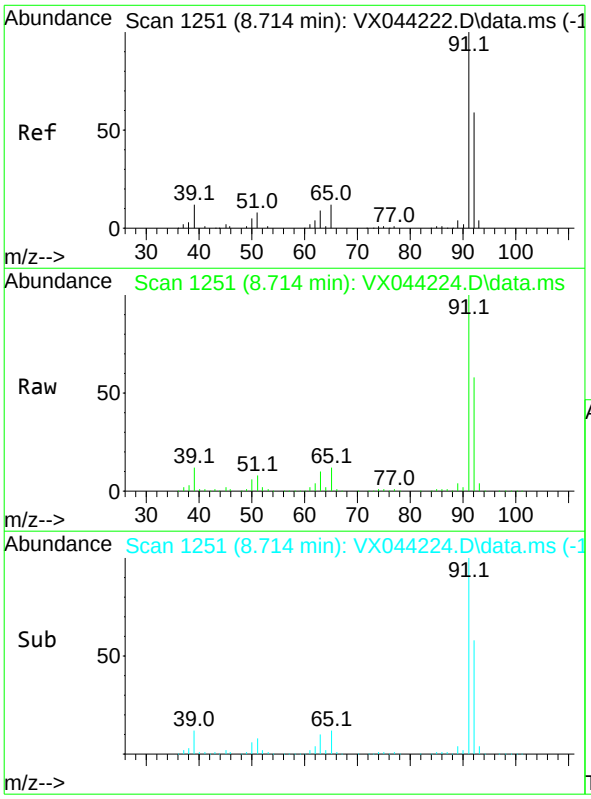
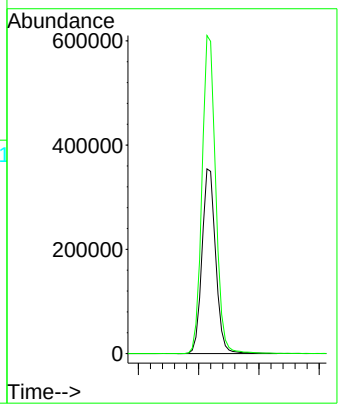
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

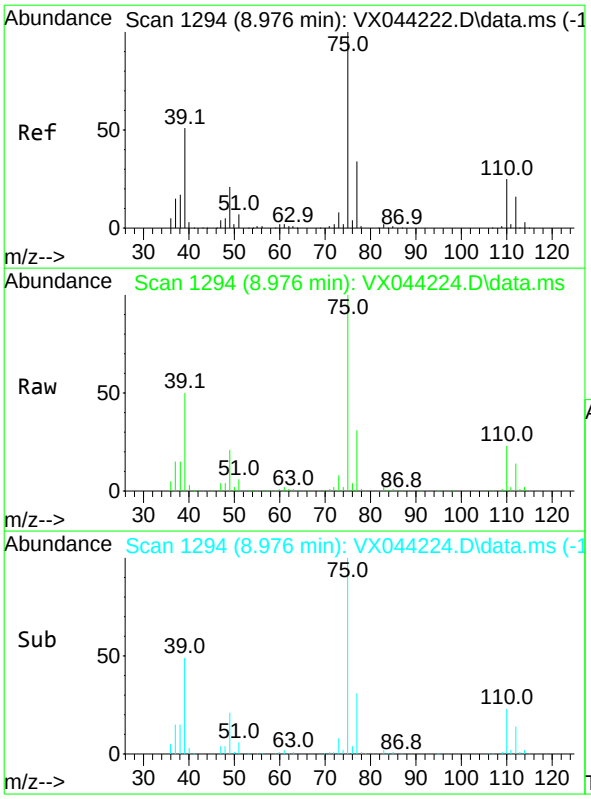


#52
Toluene
Concen: 149.294 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 92 Resp: 557102

Ion	Ratio	Lower	Upper
92	100		
91	172.4	137.0	205.6

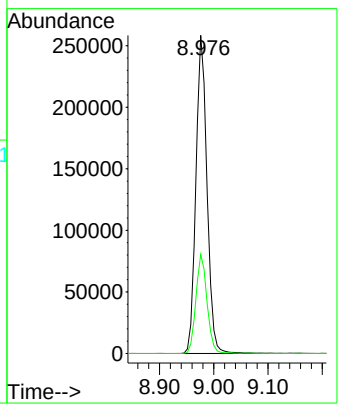




#53
t-1,3-Dichloropropene
Concen: 150.167 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 366275

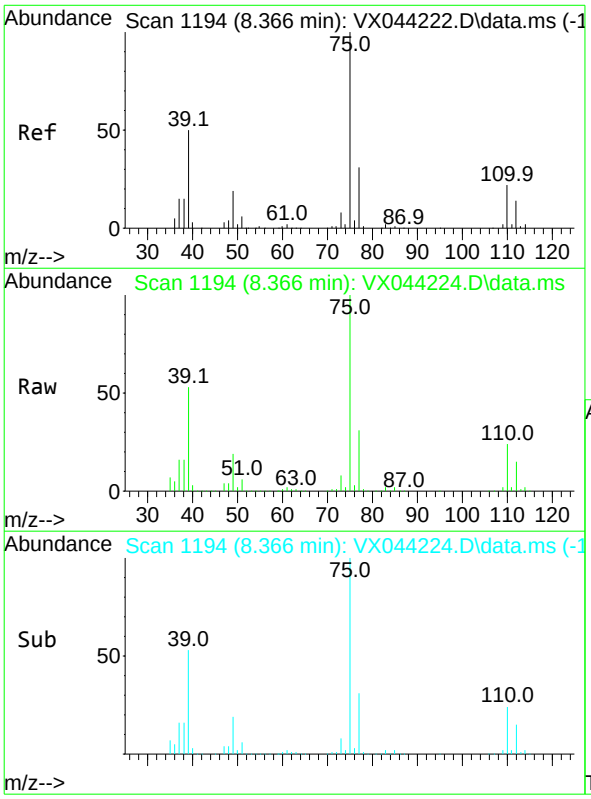
Ion	Ratio	Lower	Upper
75	100		
77	31.1	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

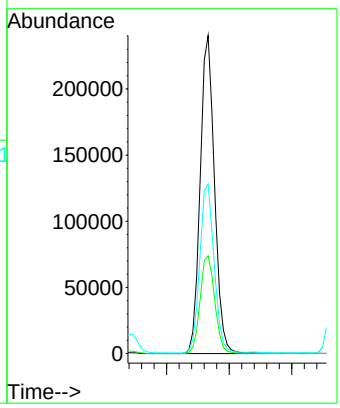
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

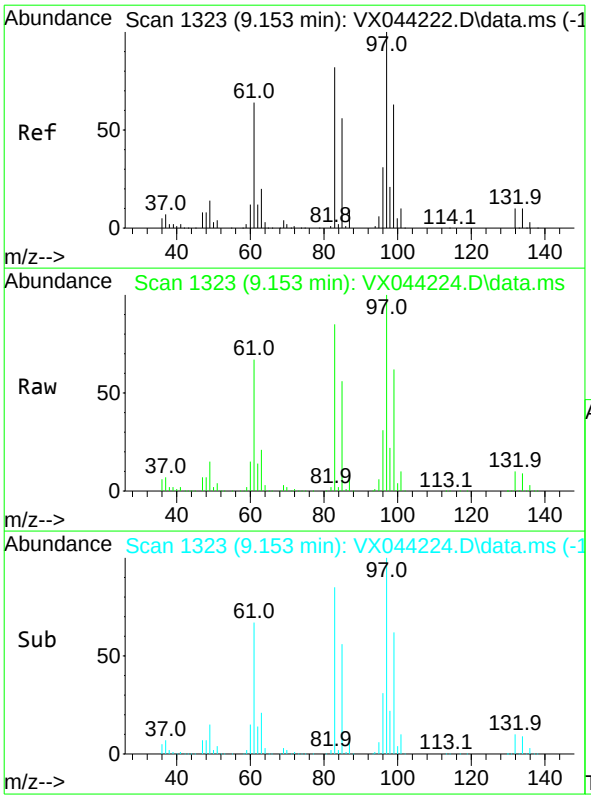


#54
cis-1,3-Dichloropropene
Concen: 172.581 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 382226

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.7	37.1
39	53.1	40.3	60.5

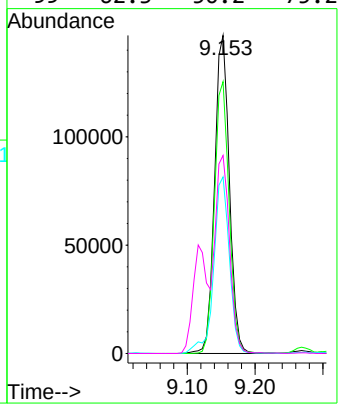




#55
1,1,2-Trichloroethane
Concen: 150.202 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 97 Resp: 222665

Ion	Ratio	Lower	Upper
97	100		
83	85.5	65.3	97.9
85	55.5	44.6	67.0
99	62.3	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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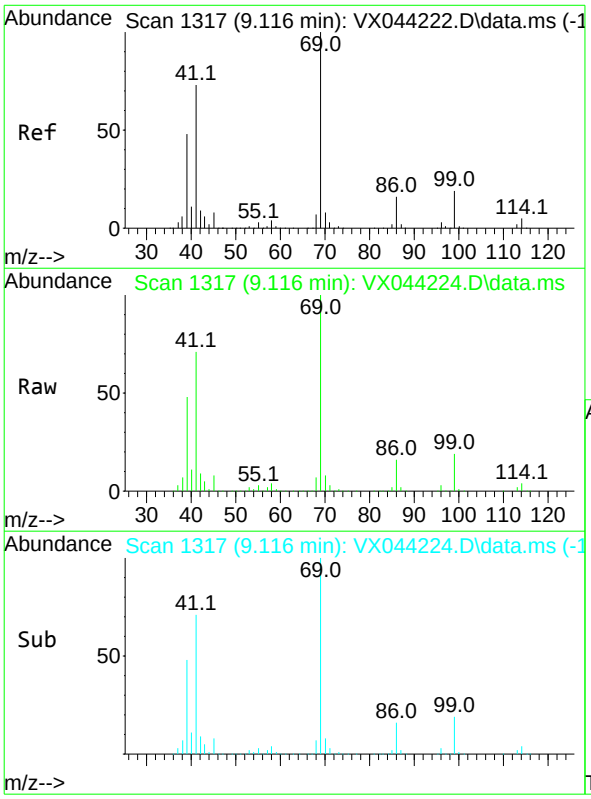
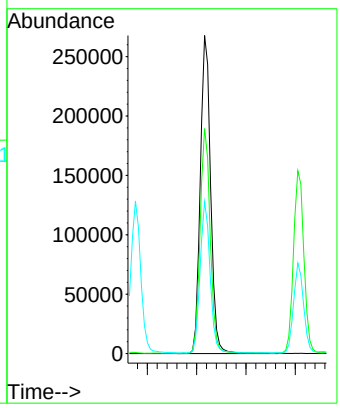
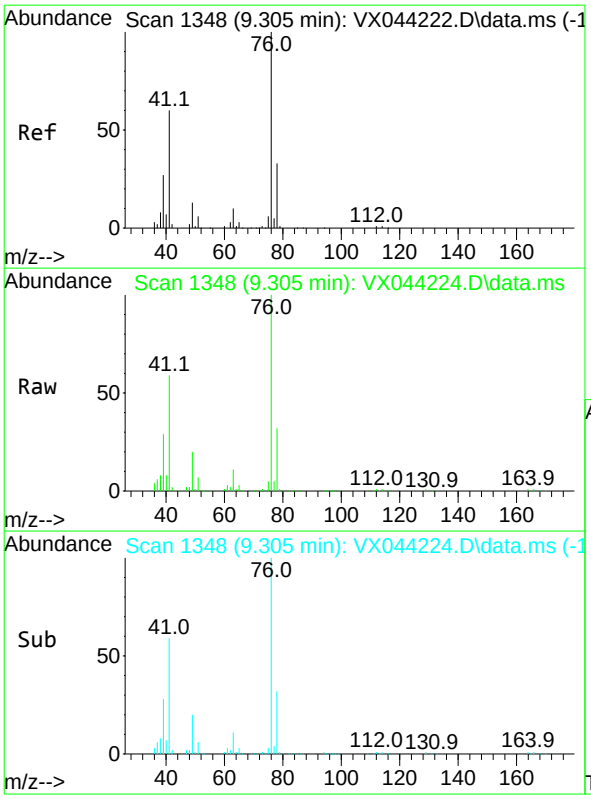


#56
Ethyl methacrylate
Concen: 166.289 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 69 Resp: 389165

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.2	37.4	56.0

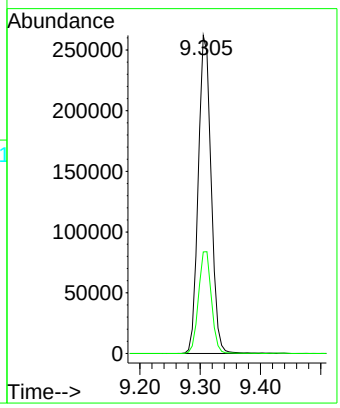




#57
1,3-Dichloropropane
Concen: 150.014 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 76 Resp: 387086

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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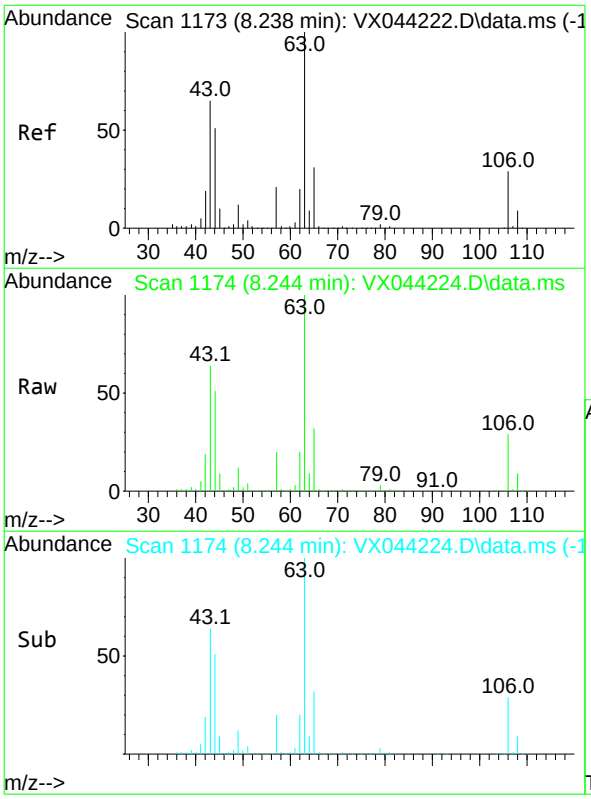
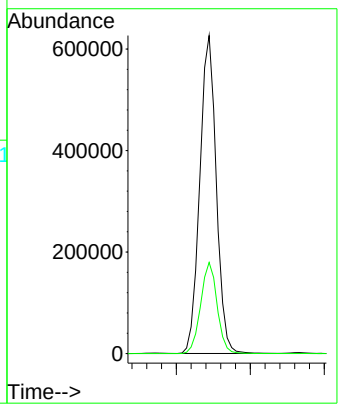
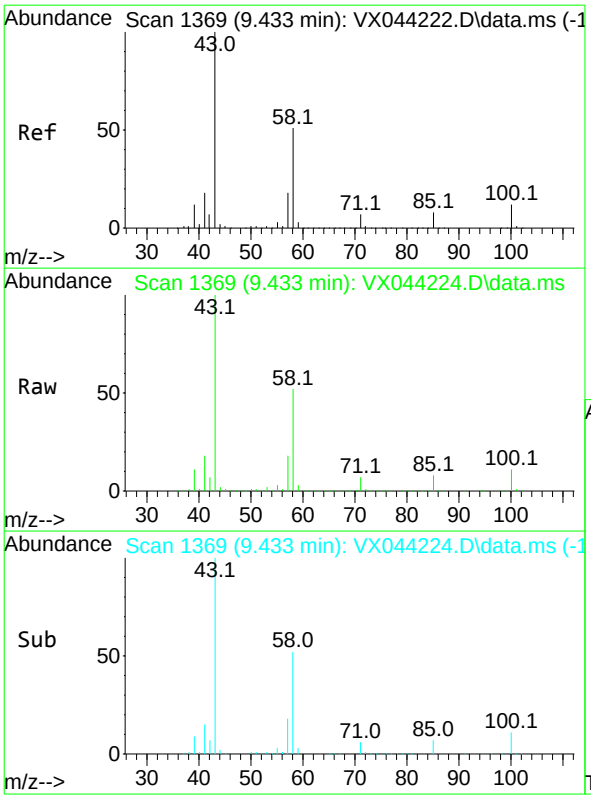


#58
2-Chloroethyl Vinyl ether
Concen: 822.575 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 970949

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2

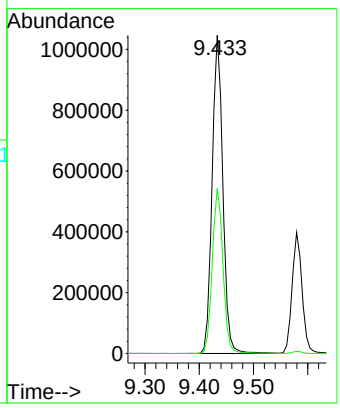




#59
2-Hexanone
Concen: 816.161 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 1436300

Ion	Ratio	Lower	Upper
43	100		
58	52.0	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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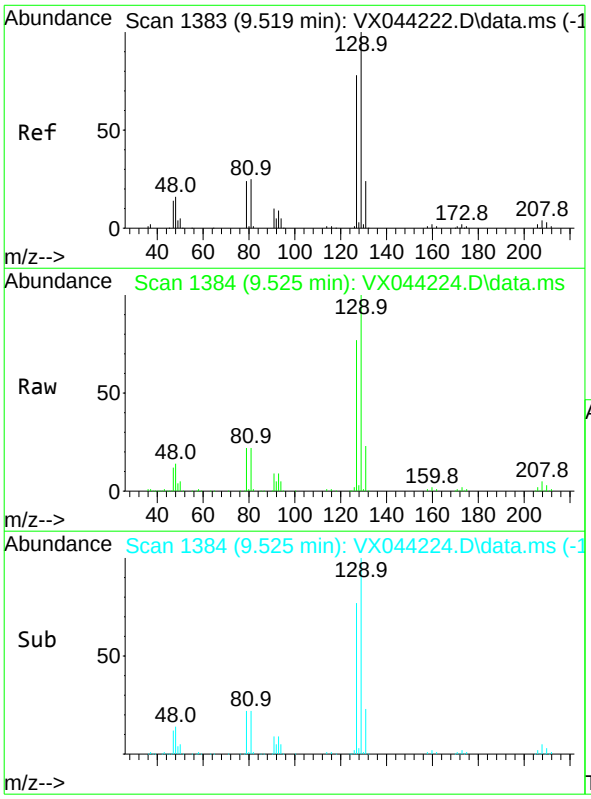
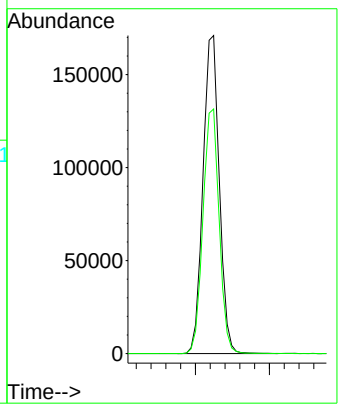
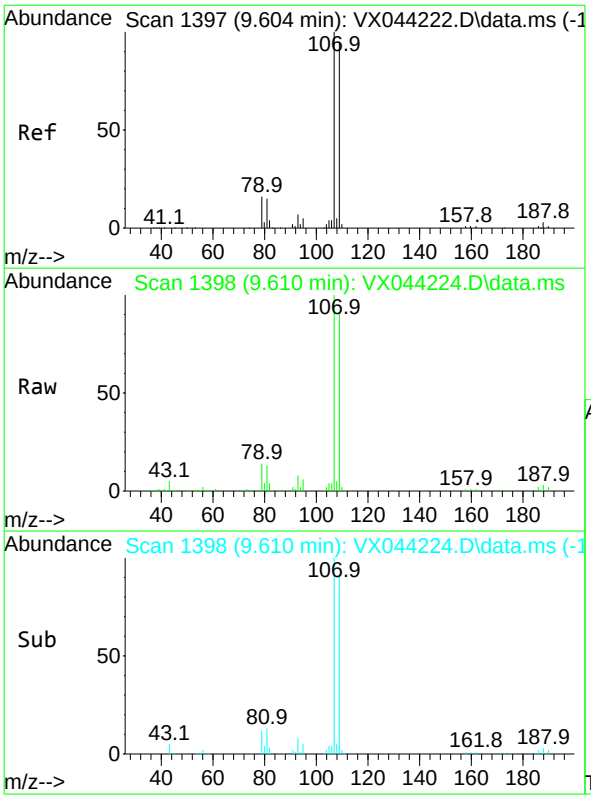


#60
Dibromochloromethane
Concen: 150.105 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:129 Resp: 261253

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.5	115.3

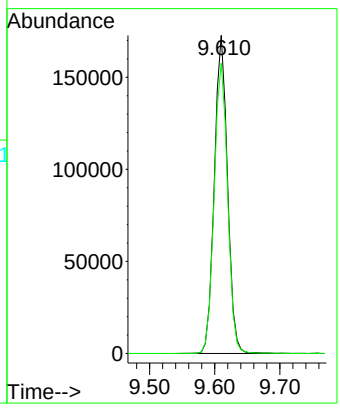




#61
1,2-Dibromoethane
Concen: 160.674 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:107 Resp: 242451

Ion	Ratio	Lower	Upper
107	100		
109	93.4	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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Reviewed By :John Carlone 12/12/2024
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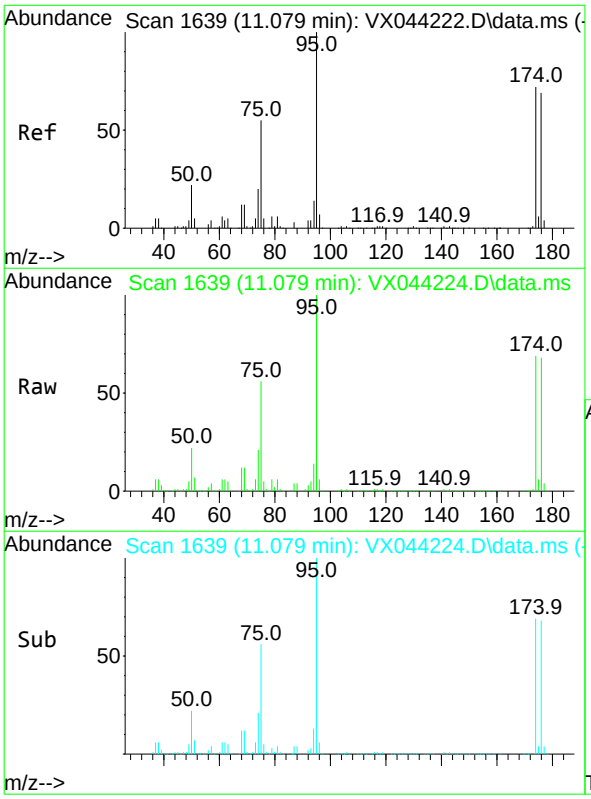
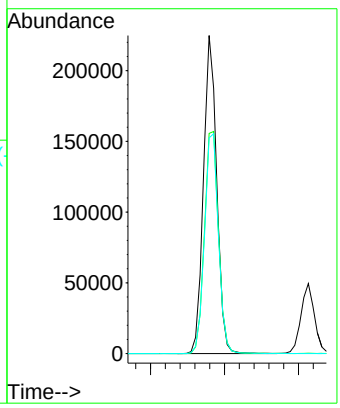
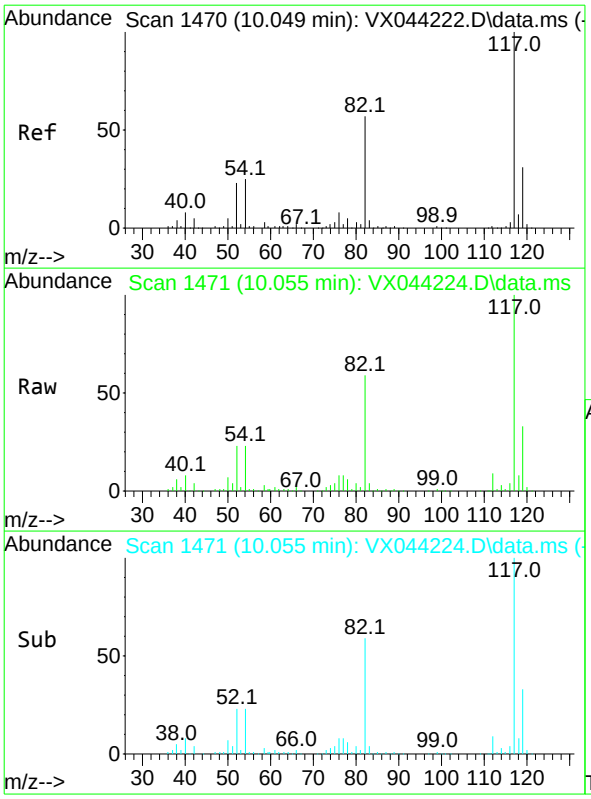


#62
4-Bromofluorobenzene
Concen: 156.709 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 95 Resp: 279706

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	145.8
176	72.6	0.0	137.8

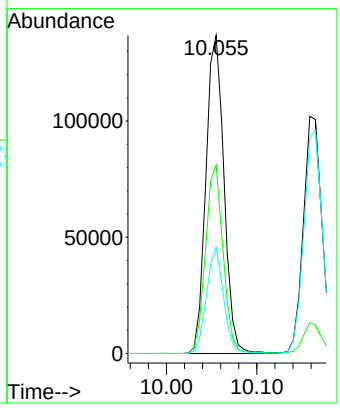




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 190013

Ion	Ratio	Lower	Upper
117	100		
82	59.2	45.8	68.8
119	33.4	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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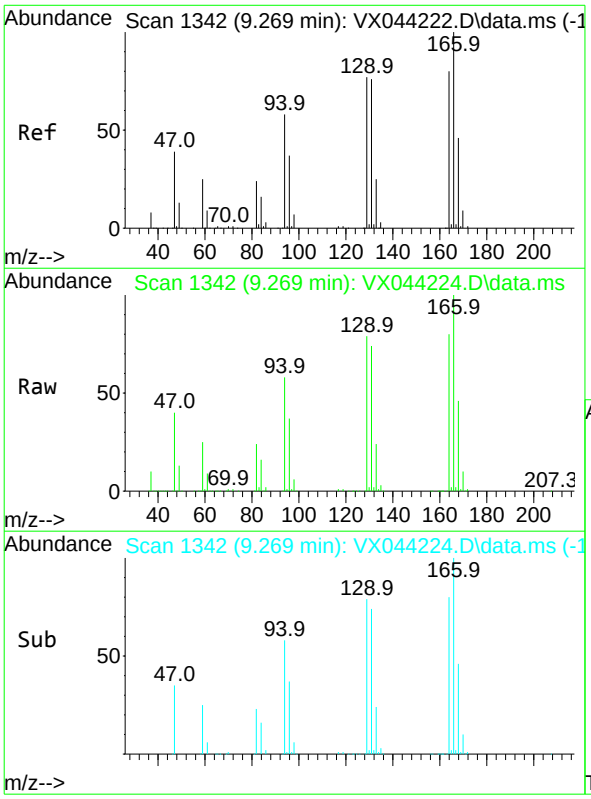
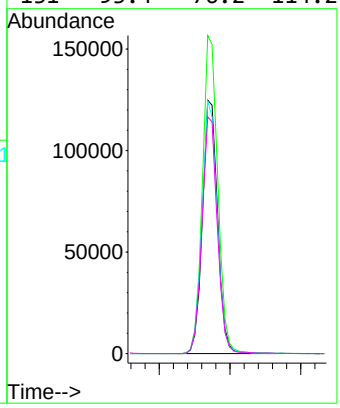
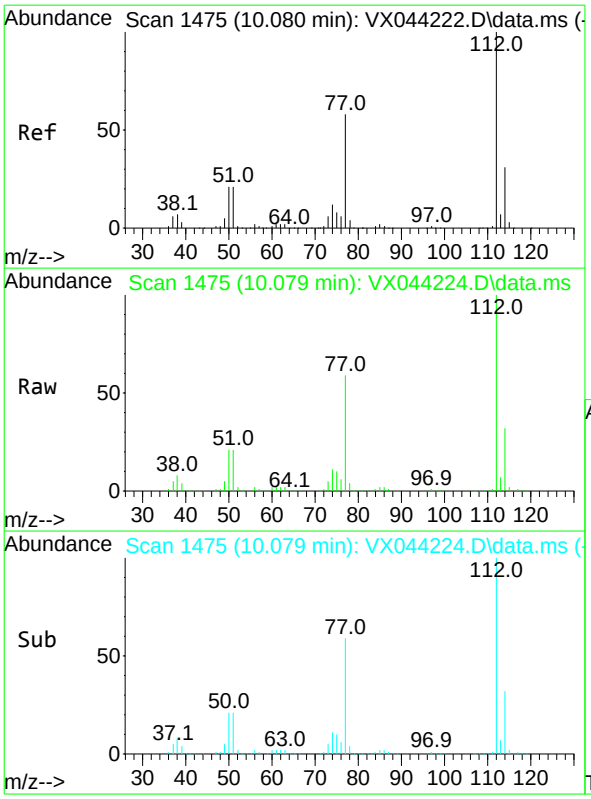


#64
Tetrachloroethene
Concen: 147.836 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:164 Resp: 186443

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.7	77.2	115.8
131	93.4	76.2	114.2

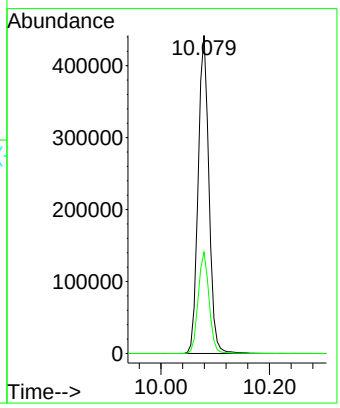




#65
Chlorobenzene
Concen: 149.428 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:112 Resp: 608404

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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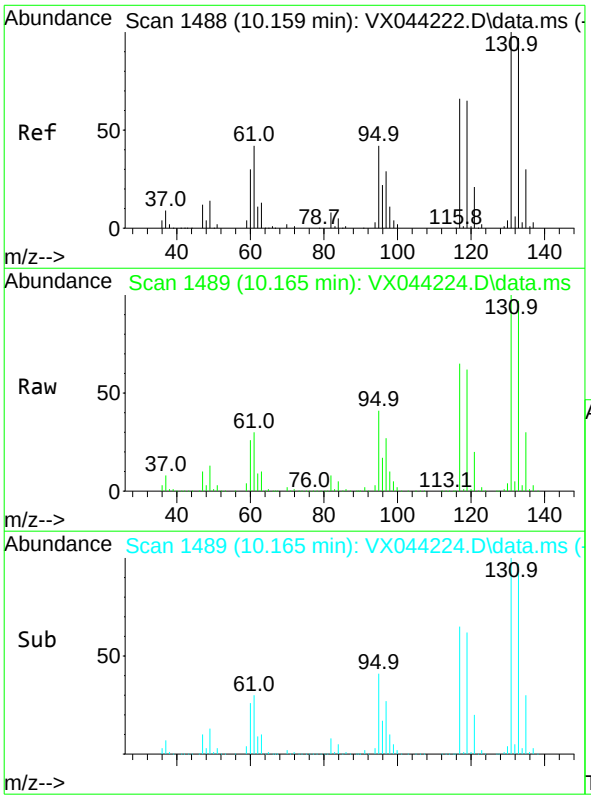
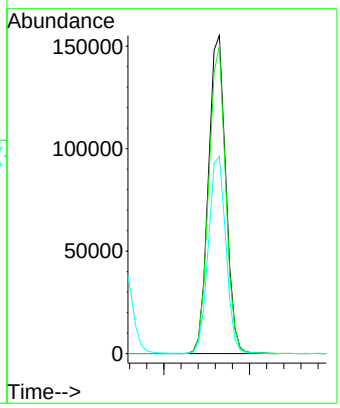
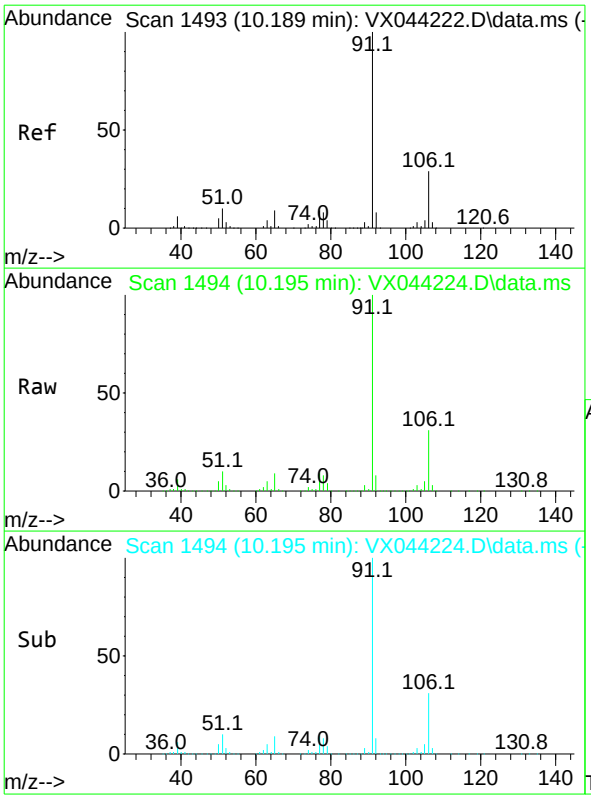


#66
1,1,1,2-Tetrachloroethane
Concen: 166.991 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:131 Resp: 218515

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	62.7	31.6	95.0

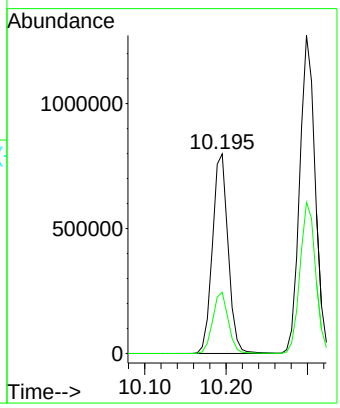




#67
Ethyl Benzene
Concen: 151.917 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 1068736

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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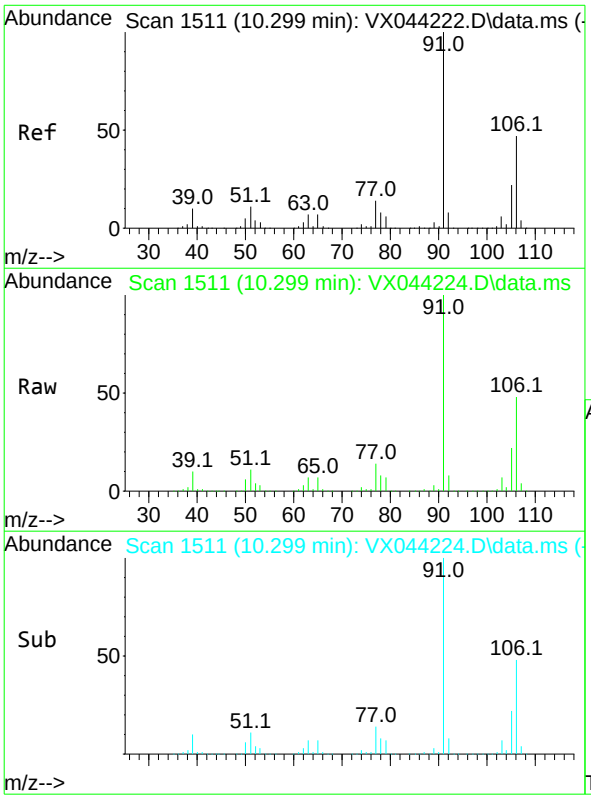
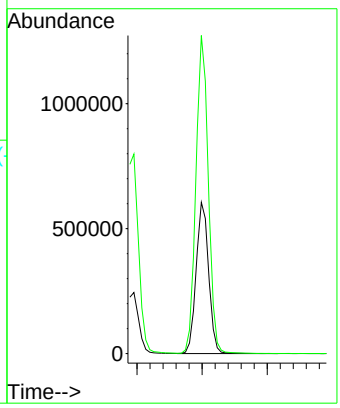
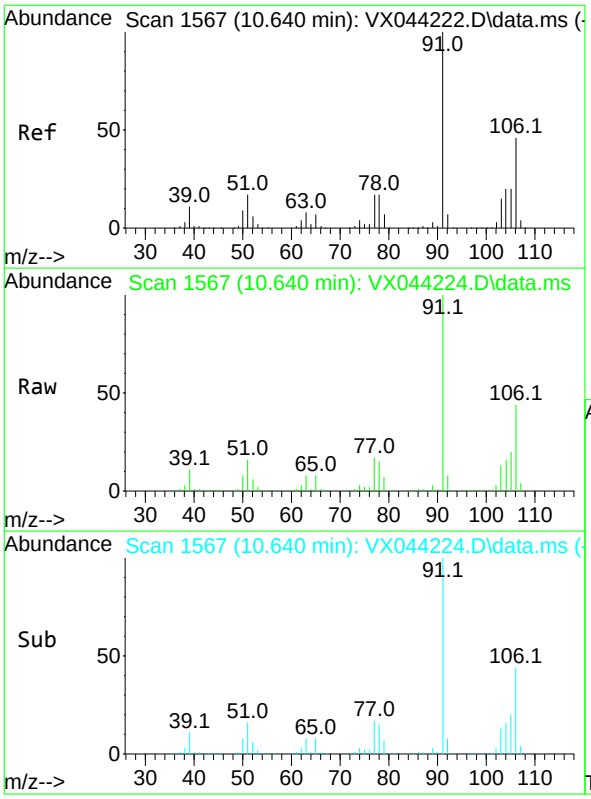


#68
m/p-Xylenes
Concen: 312.254 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:106 Resp: 806058

Ion	Ratio	Lower	Upper
106	100		
91	208.8	170.2	255.2

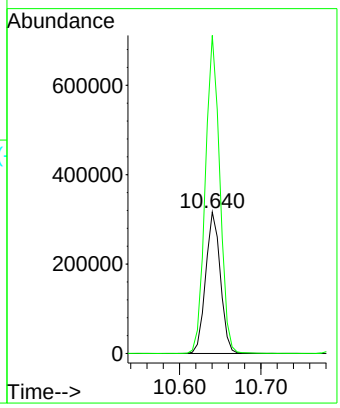




#69
o-Xylene
Concen: 152.030 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:106 Resp: 397084

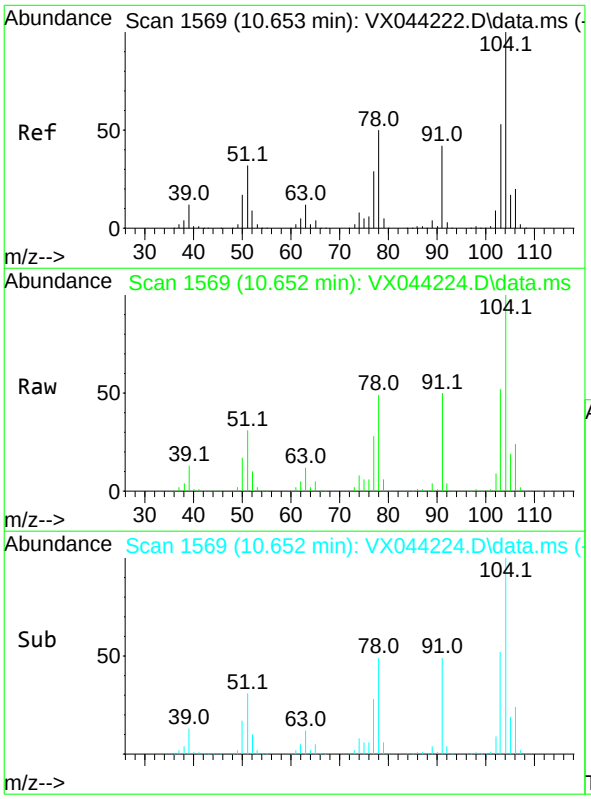
Ion	Ratio	Lower	Upper
106	100		
91	221.5	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

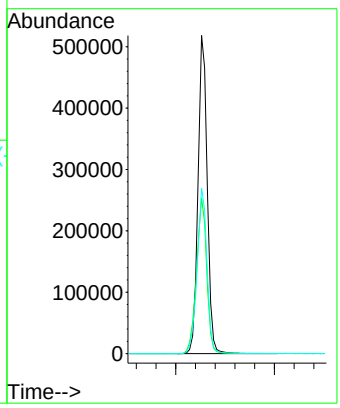
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

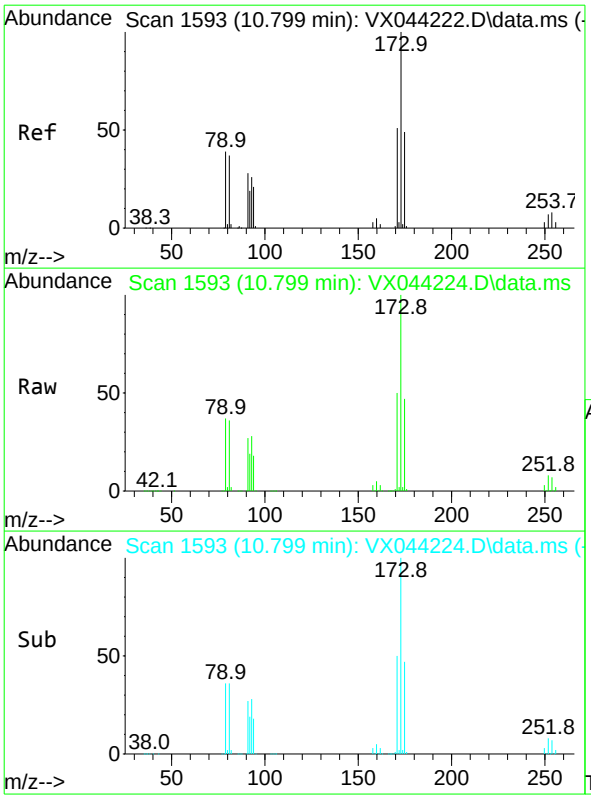


#70
Styrene
Concen: 160.228 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:104 Resp: 670887

Ion	Ratio	Lower	Upper
104	100		
78	54.2	44.6	67.0
103	55.9	45.4	68.0

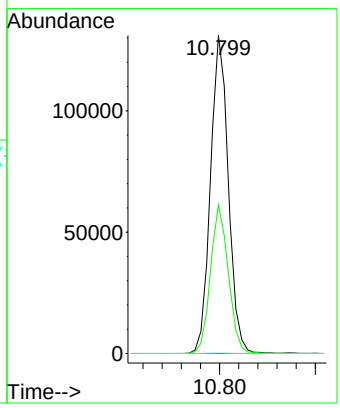




#71
Bromoform
Concen: 150.034 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:173 Resp: 169450

Ion	Ratio	Lower	Upper
173	100		
175	46.8	23.8	71.4
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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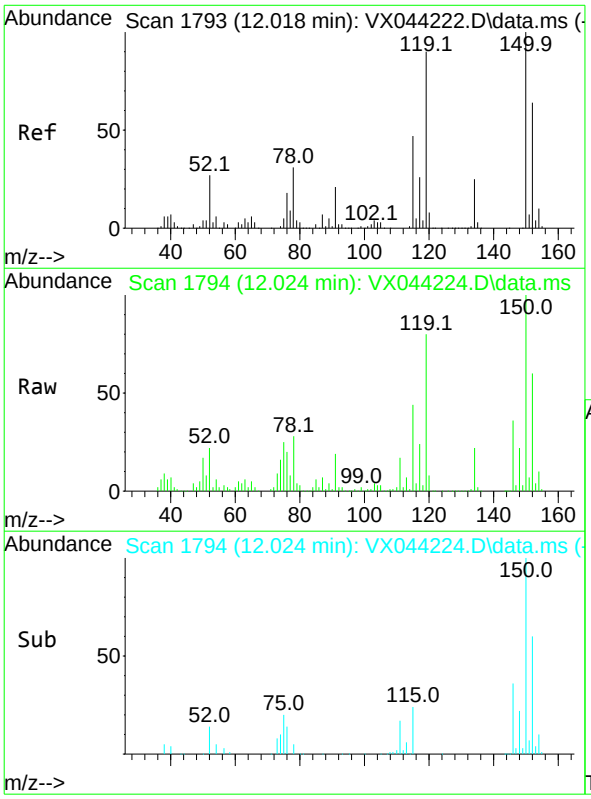
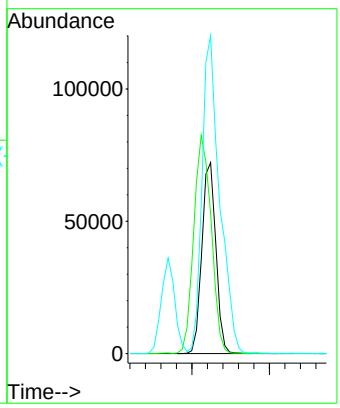
Supervised By :Mahesh Dadoda 12/12/2024

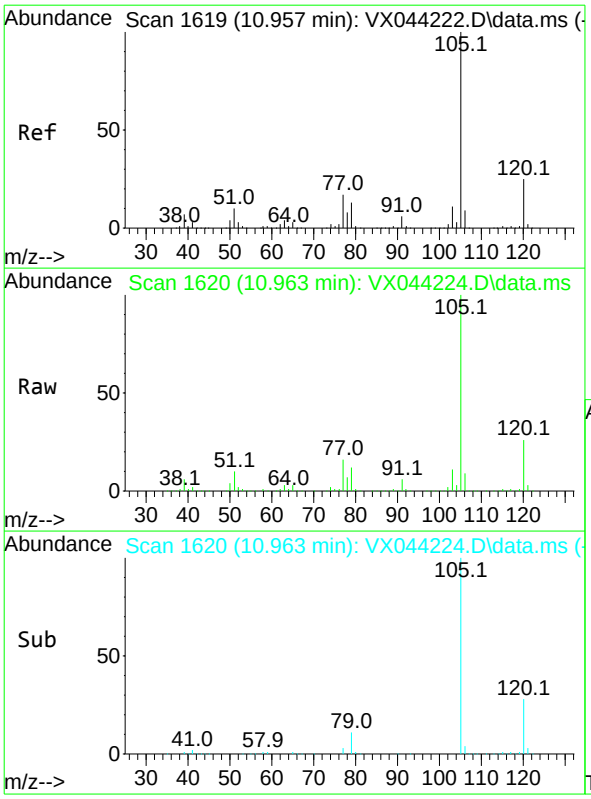


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:152 Resp: 90898

Ion	Ratio	Lower	Upper
152	100		
115	142.2	44.5	133.3#
150	208.8	0.0	353.8

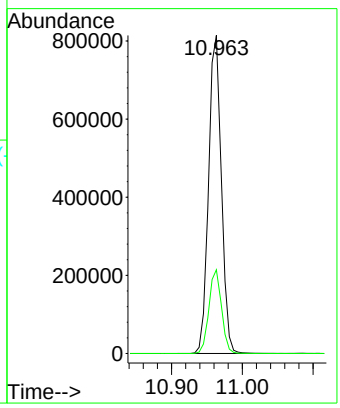




#73
Isopropylbenzene
Concen: 146.832 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 1021749

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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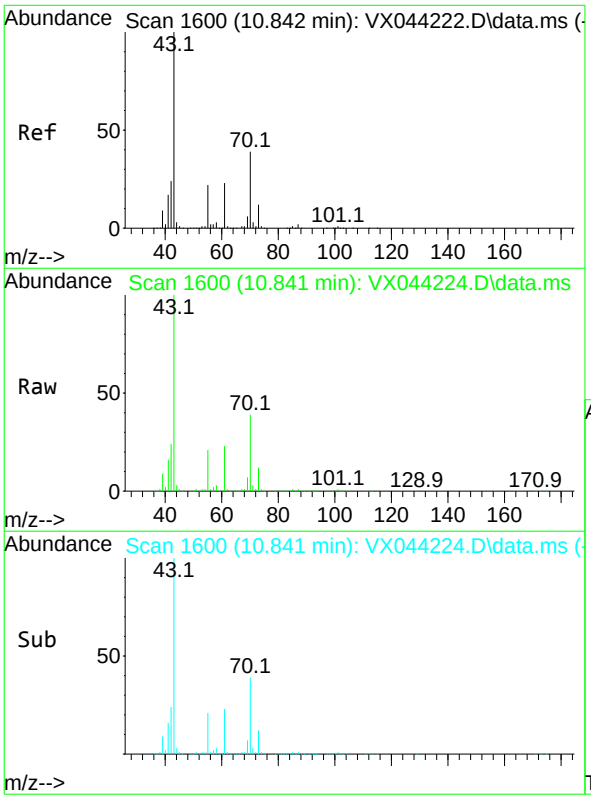
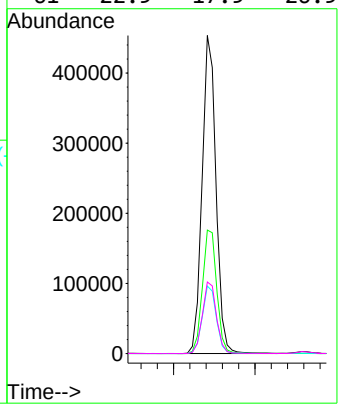
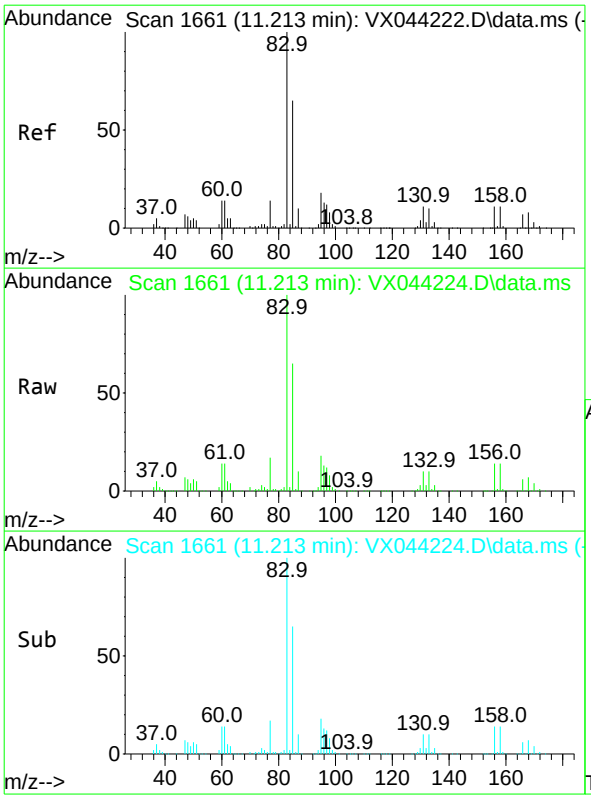


#74
N-amyl acetate
Concen: 166.823 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 536496

Ion	Ratio	Lower	Upper
43	100		
70	40.3	31.9	47.9
55	21.6	17.9	26.9
61	22.9	17.9	26.9

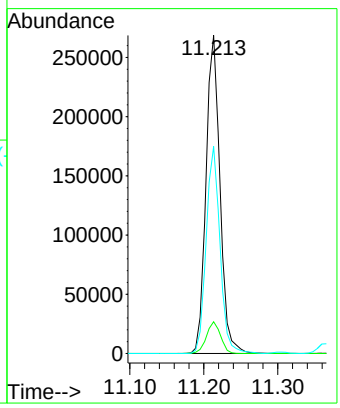




#75
1,1,2,2-Tetrachloroethane
Concen: 145.883 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 352591

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.4	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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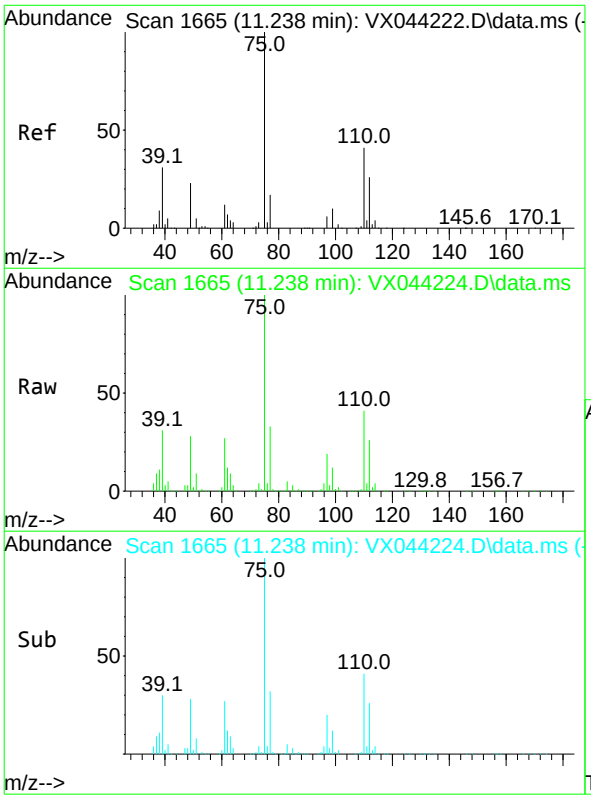
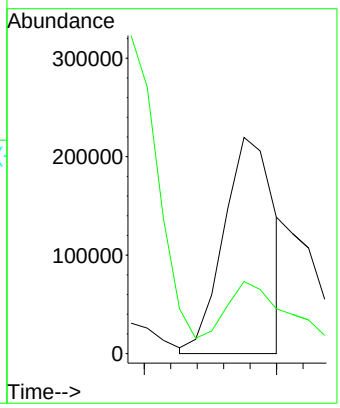
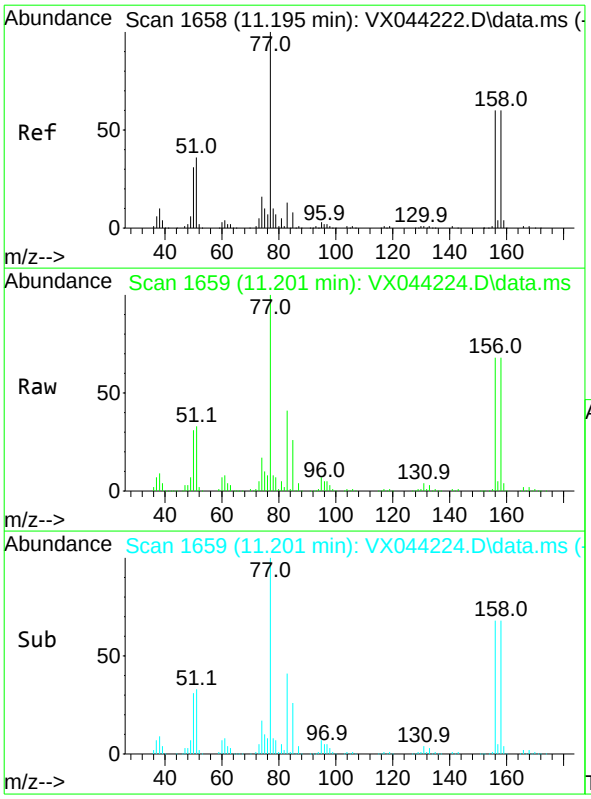


#76
1,2,3-Trichloropropane
Concen: 139.434 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 287602

Ion	Ratio	Lower	Upper
75	100		
77	45.2	20.9	62.7

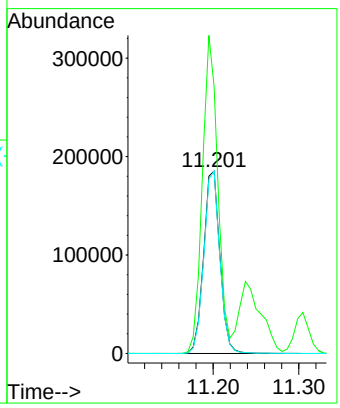




#77
Bromobenzene
Concen: 144.584 ug/l
RT: 11.201 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:156 Resp: 243975

Ion	Ratio	Lower	Upper
156	100		
77	165.5	82.6	247.8
158	98.2	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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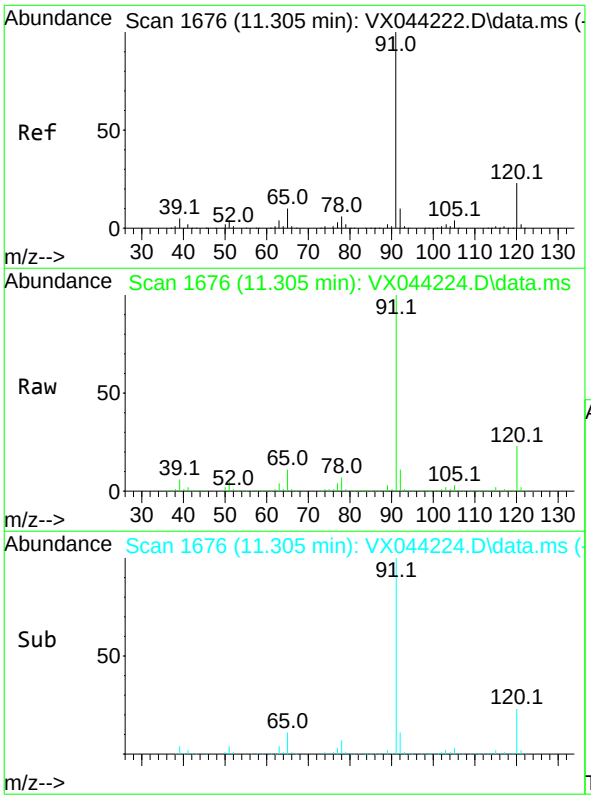
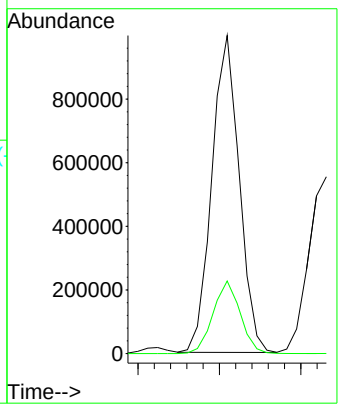
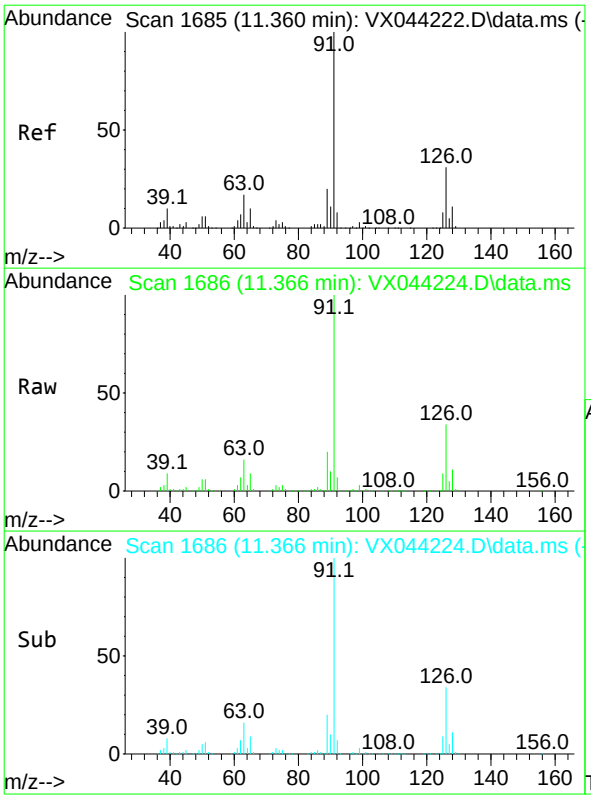


#78
n-propylbenzene
Concen: 151.637 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 1166255

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.0	33.0

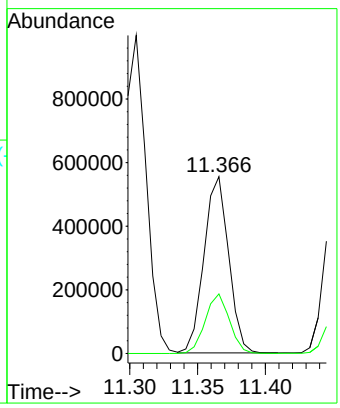




#79
2-Chlorotoluene
Concen: 140.866 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 700673

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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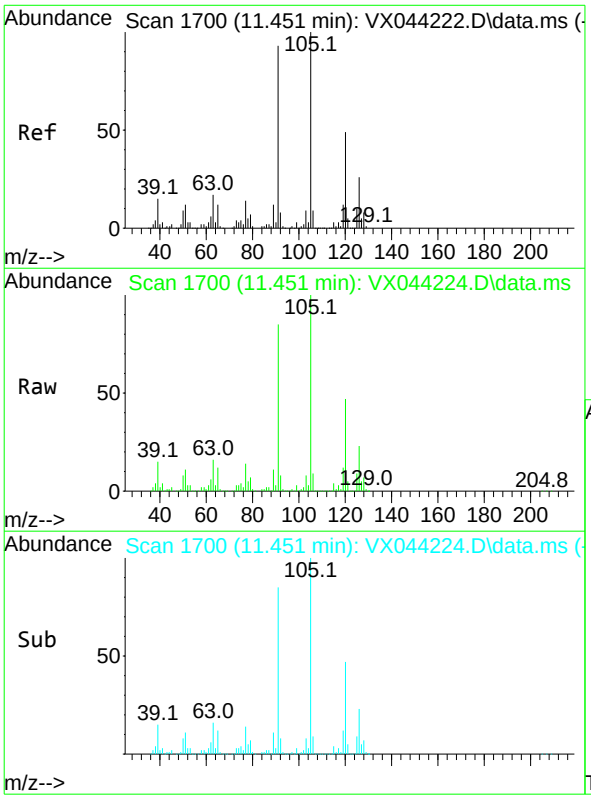
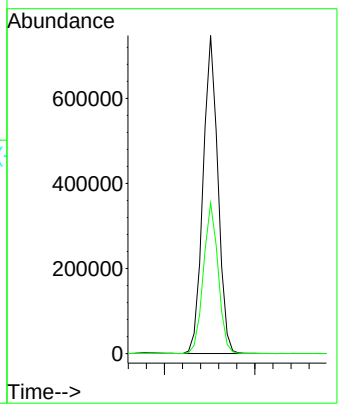
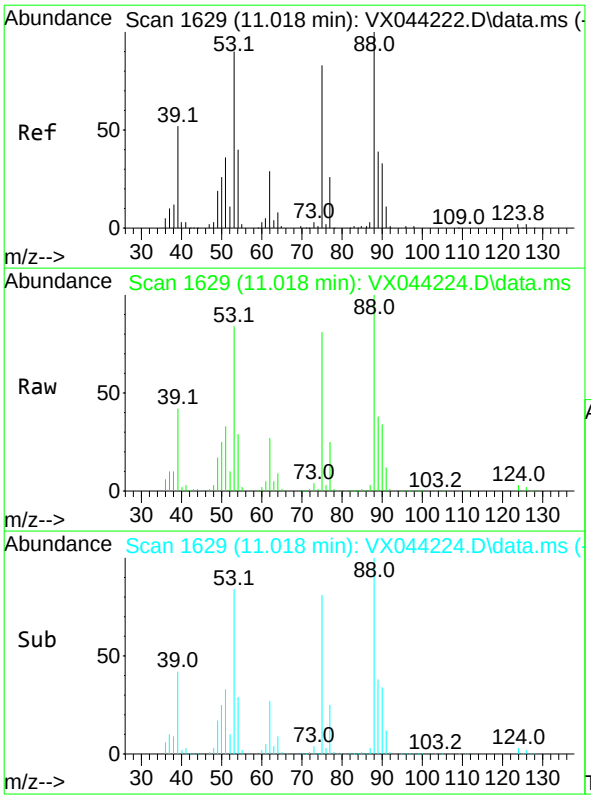


#80
1,3,5-Trimethylbenzene
Concen: 147.824 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 853042

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.8	71.4

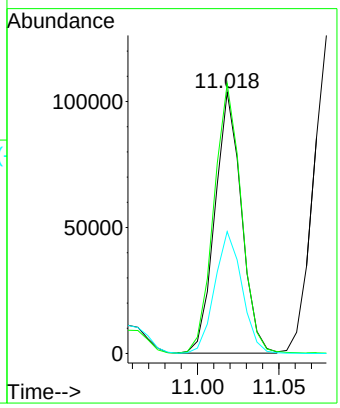




#81
trans-1,4-Dichloro-2-butene
Concen: 152.670 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 117263

Ion	Ratio	Lower	Upper
75	100		
53	107.3	93.6	140.4
89	48.2	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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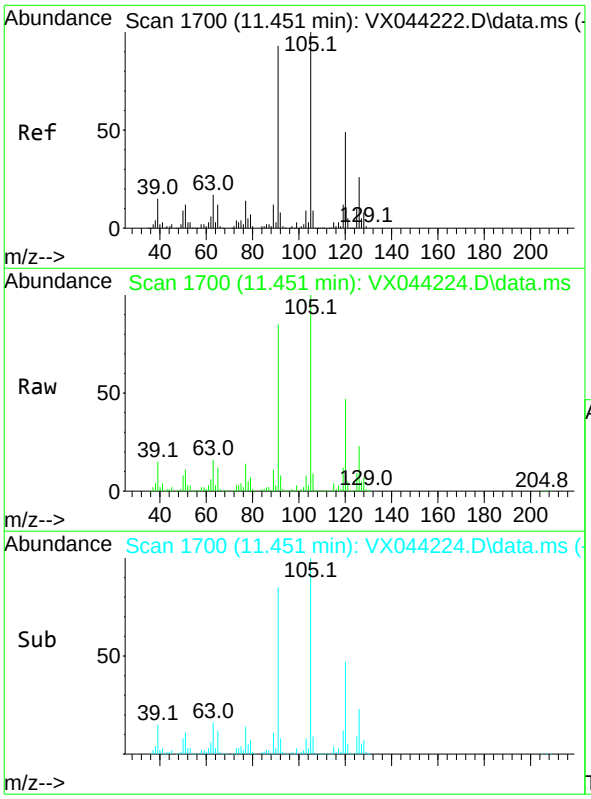
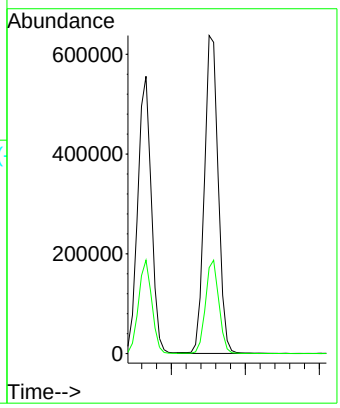
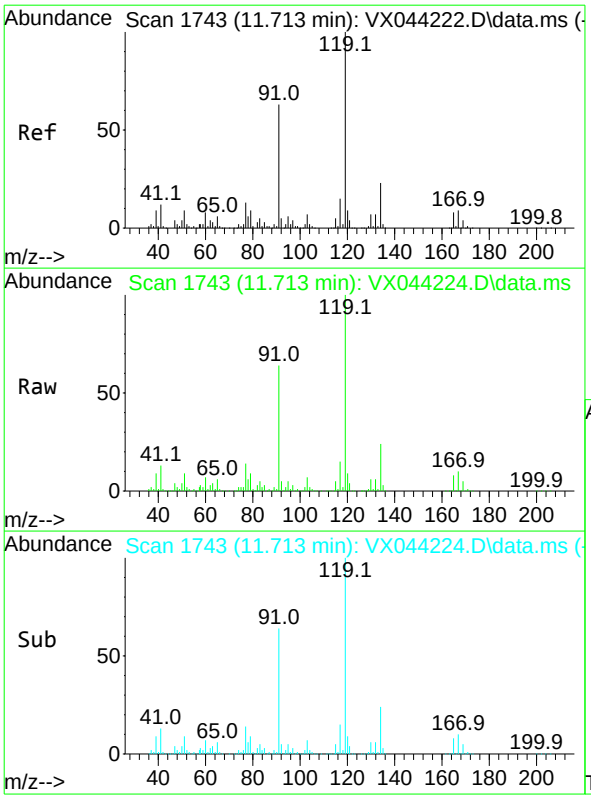


#82
4-Chlorotoluene
Concen: 149.831 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 825278

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5

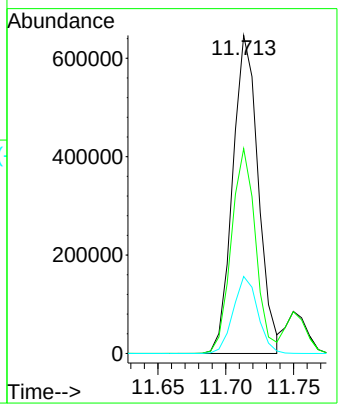




#83
tert-Butylbenzene
Concen: 148.495 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:119 Resp: 846864

Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.5
134	23.3	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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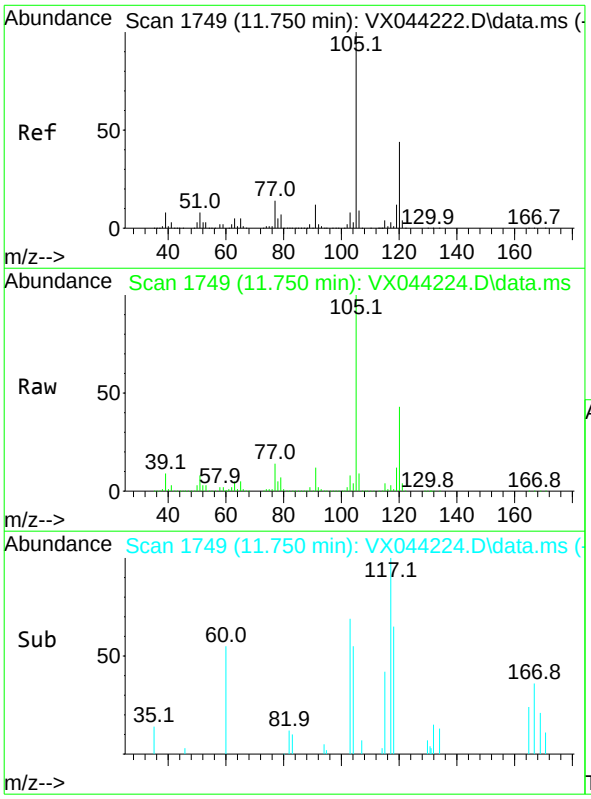
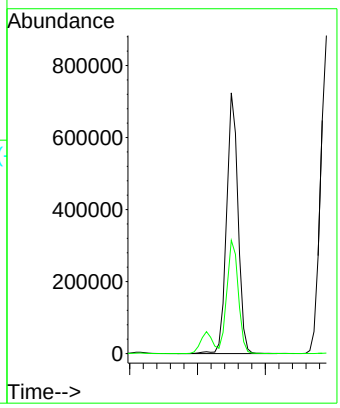
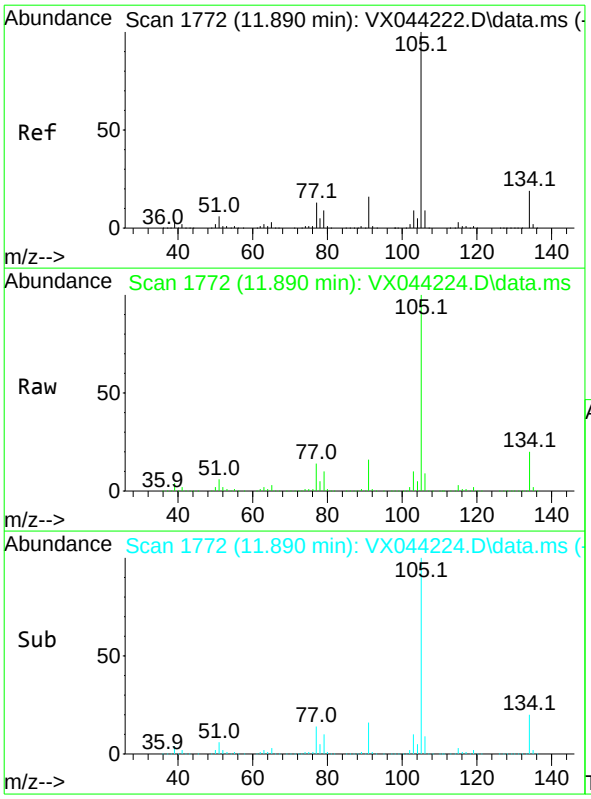


#84
1,2,4-Trimethylbenzene
Concen: 149.414 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 846771

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.7	65.1

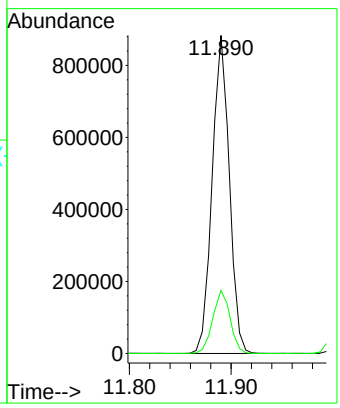




#85
sec-Butylbenzene
Concen: 149.409 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 1034419

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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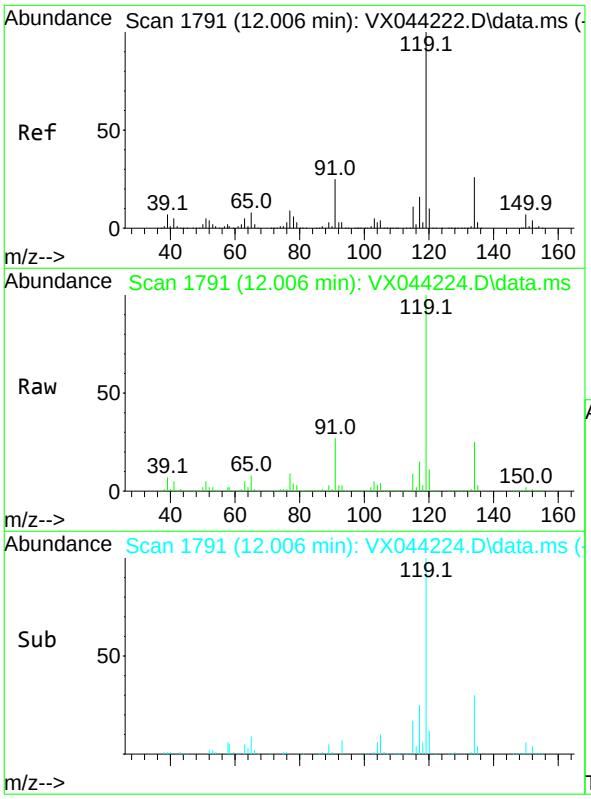
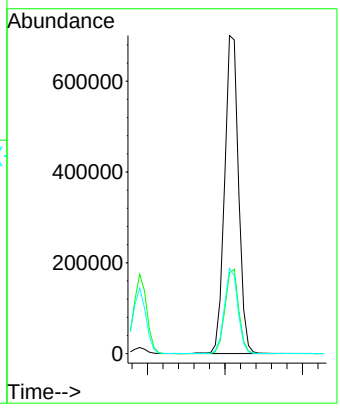
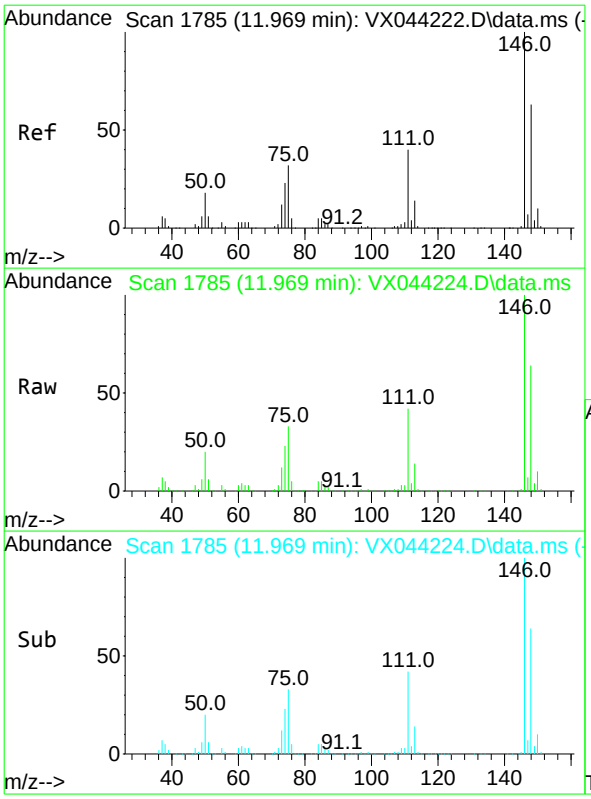


#86
p-Isopropyltoluene
Concen: 151.944 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:119 Resp: 875562

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.7	13.0	39.0

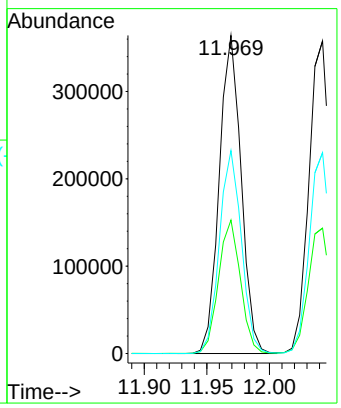




#87
1,3-Dichlorobenzene
Concen: 150.575 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:146 Resp: 443826

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.4	64.2
148	64.0	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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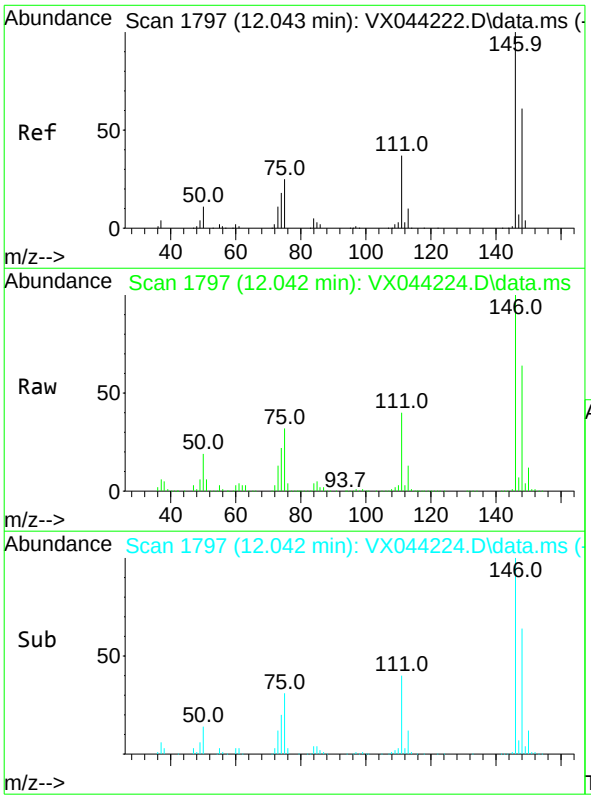
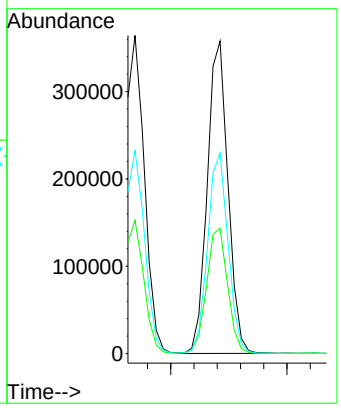
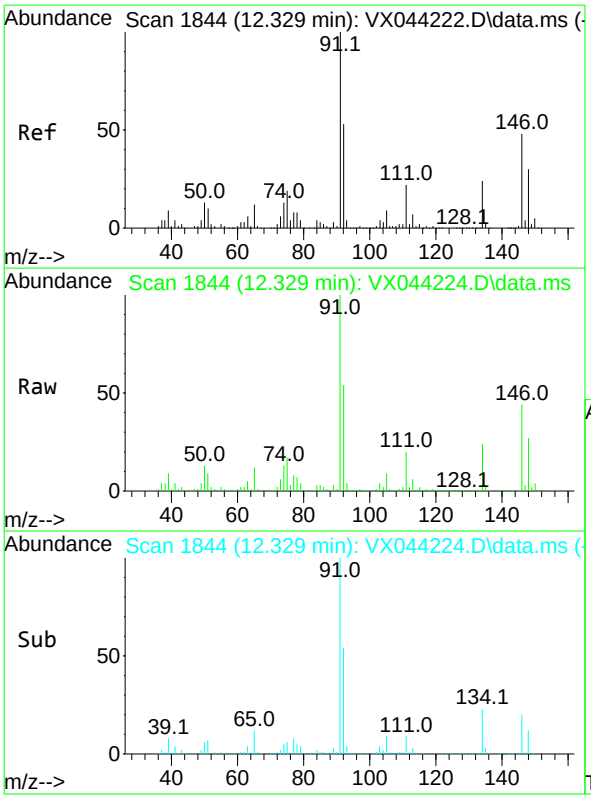


#88
1,4-Dichlorobenzene
Concen: 146.058 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:146 Resp: 442556

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.0	63.0
148	63.7	32.3	96.8

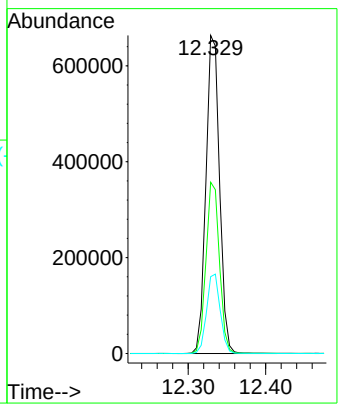




#89
n-Butylbenzene
Concen: 166.836 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 808399

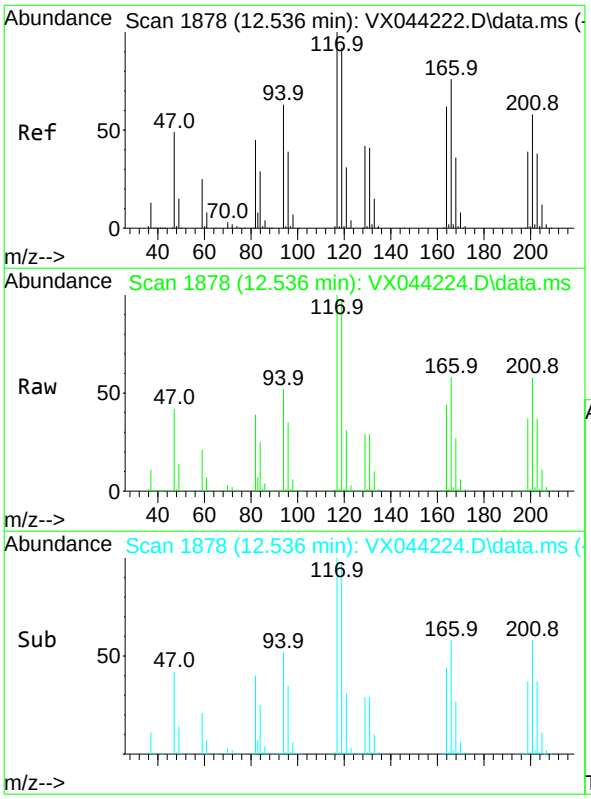
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	25.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

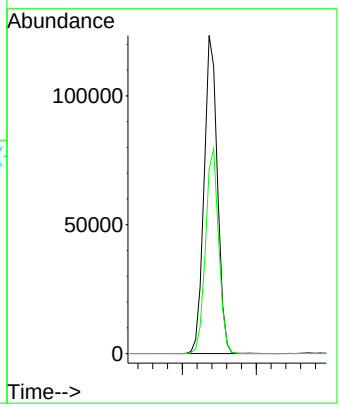
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

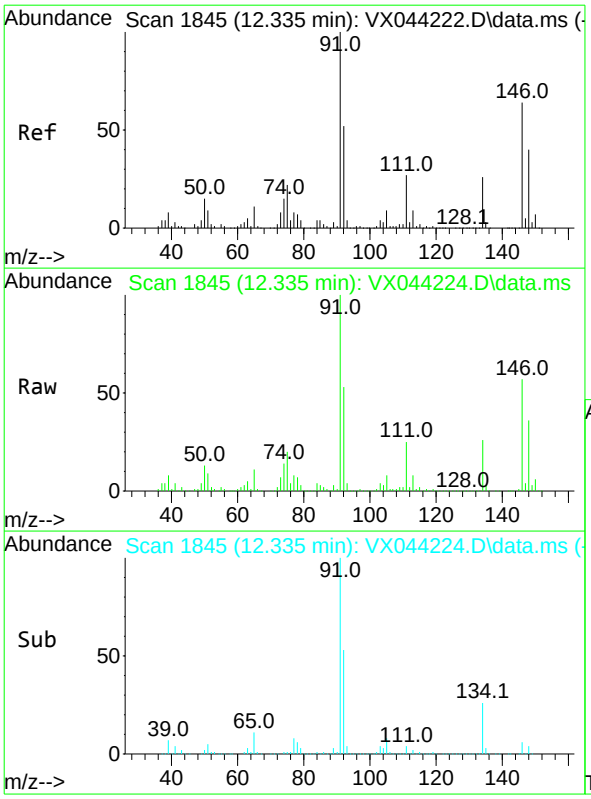


#90
Hexachloroethane
Concen: 183.942 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 154726

Ion	Ratio	Lower	Upper
117	100		
201	63.5	31.4	94.2

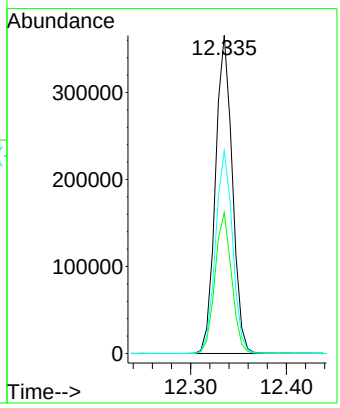




#91
1,2-Dichlorobenzene
Concen: 146.357 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:146 Resp: 447931

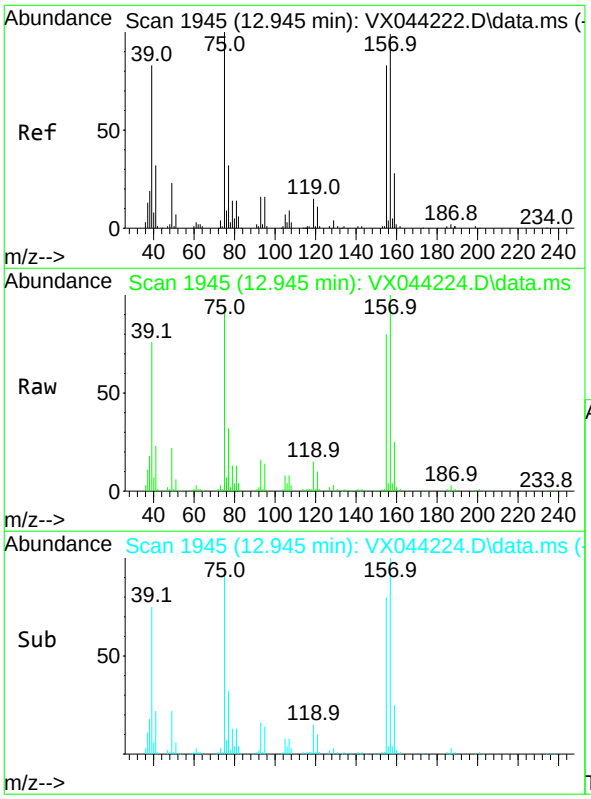
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.4	64.3
148	64.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

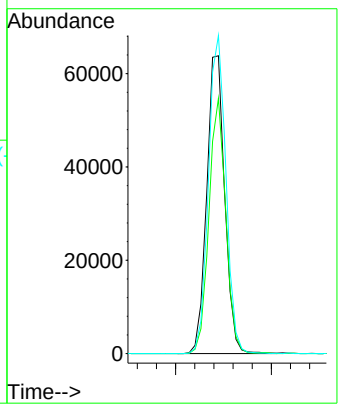
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

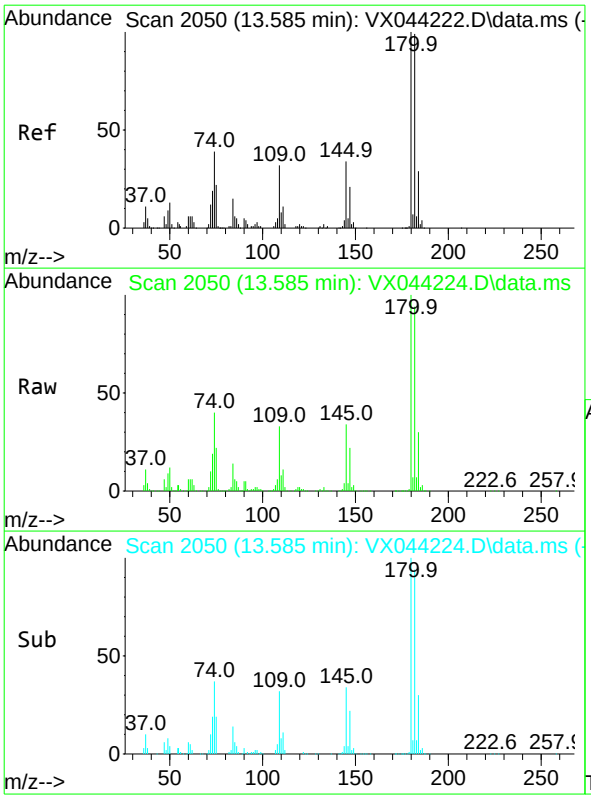


#92
1,2-Dibromo-3-Chloropropane
Concen: 178.106 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 83565

Ion	Ratio	Lower	Upper
75	100		
155	79.8	38.1	114.3
157	103.3	47.2	141.6

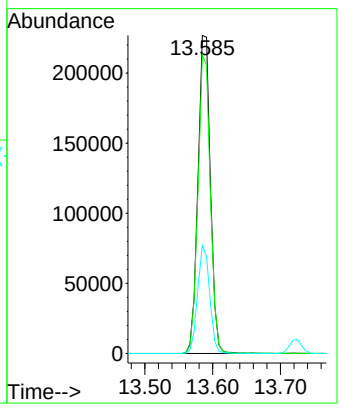




#93
1,2,4-Trichlorobenzene
Concen: 171.952 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:180 Resp: 288519

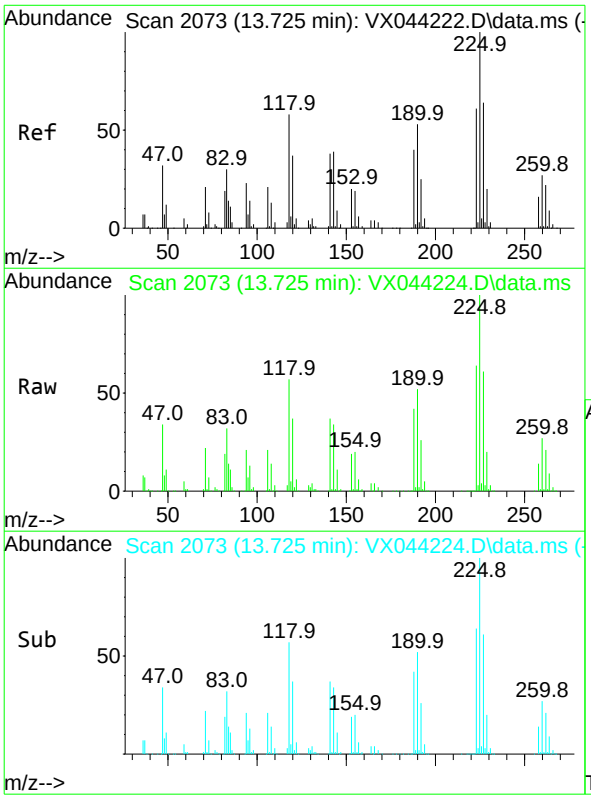
Ion	Ratio	Lower	Upper
180	100		
182	93.3	48.0	144.2
145	33.0	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

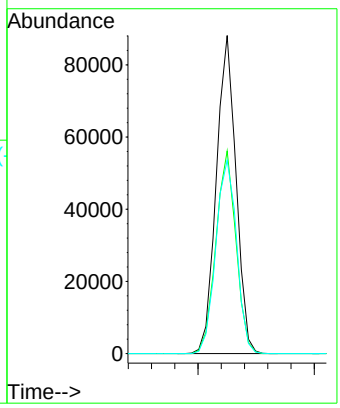
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

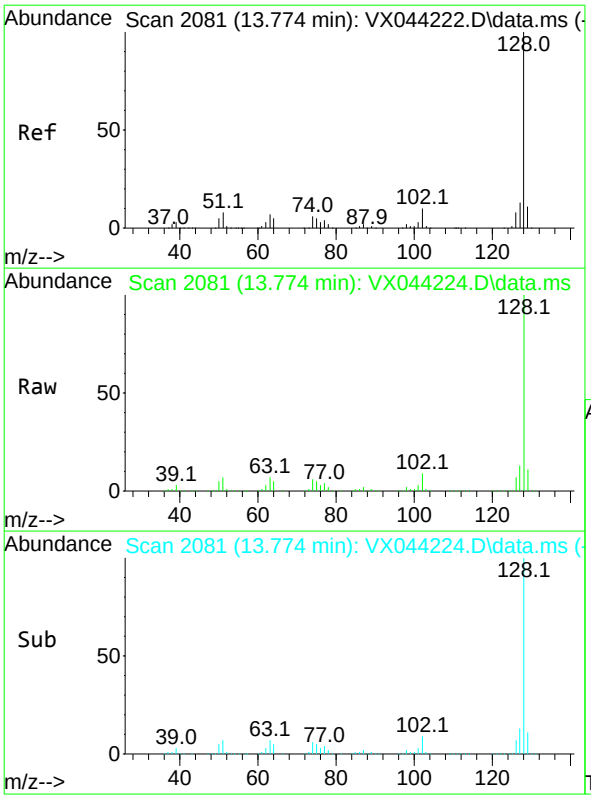


#94
Hexachlorobutadiene
Concen: 154.036 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:225 Resp: 103961

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	64.0	32.1	96.3

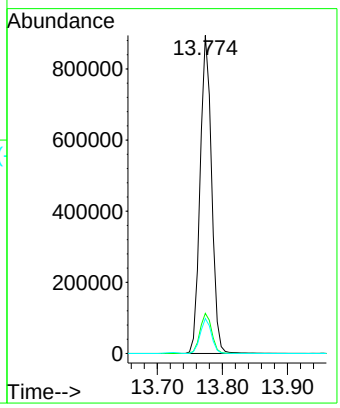




#95
Naphthalene
Concen: 167.187 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:128 Resp: 1094997

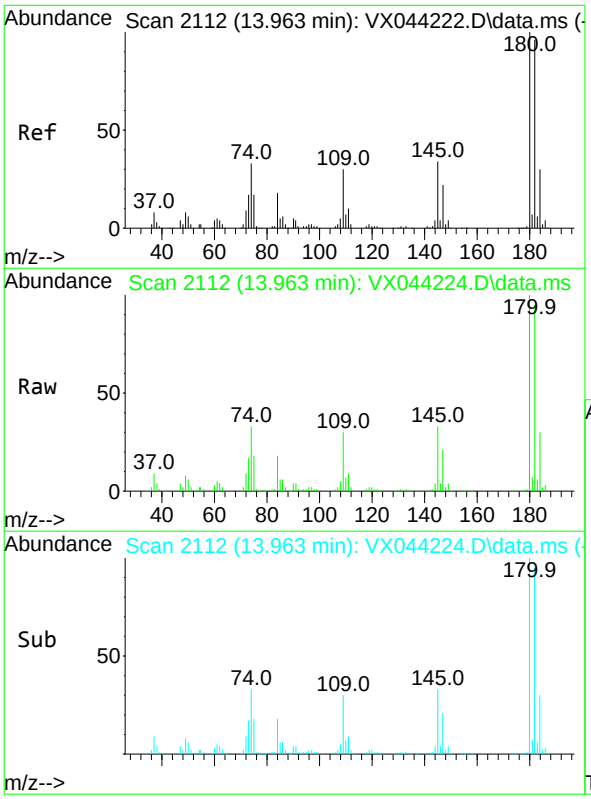
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

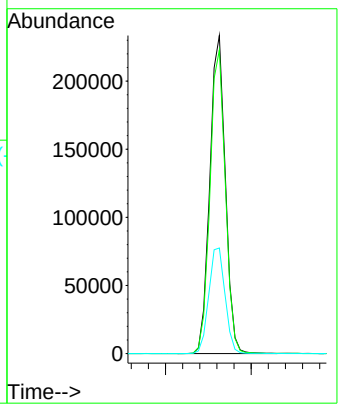
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 165.064 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:180 Resp: 293760

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	34.9	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	237295	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	210572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	99879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	107407	45.646	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.300%			
35) Dibromofluoromethane	5.379	113	77619	47.228	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.460%			
50) Toluene-d8	8.647	98	271508	48.968	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.940%			
62) 4-Bromofluorobenzene	11.079	95	97061	50.098	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	104566	50.390	ug/l	98
3) Chloromethane	1.294	50	92633	46.681	ug/l	98
4) Vinyl Chloride	1.374	62	97702	47.260	ug/l	97
5) Bromomethane	1.593	94	67357	45.926	ug/l	99
6) Chloroethane	1.666	64	62821	48.801	ug/l	100
7) Trichlorofluoromethane	1.867	101	203619	50.311	ug/l	99
8) Diethyl Ether	2.136	74	63075	45.658	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	82498	50.374	ug/l	99
10) Methyl Iodide	2.441	142	100043	46.349	ug/l	100
11) Tert butyl alcohol	3.001	59	77494	233.680	ug/l	100
12) 1,1-Dichloroethene	2.306	96	74177	49.311	ug/l	99
13) Acrolein	2.233	56	111927	233.162	ug/l	97
14) Allyl chloride	2.654	41	124635	49.744	ug/l	100
15) Acrylonitrile	3.068	53	221037	240.620	ug/l	100
16) Acetone	2.386	43	260267	271.312	ug/l	98
17) Carbon Disulfide	2.501	76	149824	52.397	ug/l	98
18) Methyl Acetate	2.709	43	115569	46.725	ug/l	93
19) Methyl tert-butyl Ether	3.117	73	281413	47.940	ug/l	99
20) Methylene Chloride	2.782	84	83188	46.170	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	77471	48.459	ug/l	98
22) Diisopropyl ether	3.763	45	264732	46.922	ug/l	98
23) Vinyl Acetate	3.721	43	1185779	258.510	ug/l	99
24) 1,1-Dichloroethane	3.605	63	151134	48.056	ug/l	98
25) 2-Butanone	4.562	43	346052	253.747	ug/l	100
26) 2,2-Dichloropropane	4.465	77	140196	54.872	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	94838	46.709	ug/l	99
28) Bromochloromethane	4.891	49	69139	44.832	ug/l	99
29) Tetrahydrofuran	5.007	42	208362	238.031	ug/l	98
30) Chloroform	5.092	83	163372	46.235	ug/l	94
31) Cyclohexane	5.458	56	125567	49.443	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	146348	49.895	ug/l	99
36) 1,1-Dichloropropene	5.684	75	106889	50.314	ug/l	98
37) Ethyl Acetate	4.721	43	137017	52.176	ug/l	99
38) Carbon Tetrachloride	5.672	117	118390	51.763	ug/l	97
39) Methylcyclohexane	7.373	83	139077	54.761	ug/l	99
40) Benzene	6.031	78	316391	49.052	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	68251	48.945 ug/l		98
42) 1,2-Dichloroethane	6.086	62	132744	49.960 ug/l		100
43) Isopropyl Acetate	6.342	43	211889	51.624 ug/l		100
44) Trichloroethene	7.123	130	80008	49.741 ug/l		98
45) 1,2-Dichloropropane	7.427	63	78321	47.528 ug/l		98
46) Dibromomethane	7.574	93	65491	51.227 ug/l		99
47) Bromodichloromethane	7.818	83	116783	52.893 ug/l		99
48) Methyl methacrylate	7.690	41	101318	50.852 ug/l		98
49) 1,4-Dioxane	7.665	88	30522m	923.966 ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	673069	255.038 ug/l		99
52) Toluene	8.714	92	199281	49.199 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	120696	50.864 ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	128875	53.607 ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	81362	50.562 ug/l		96
56) Ethyl methacrylate	9.116	69	134357	52.890 ug/l		98
57) 1,3-Dichloropropane	9.305	76	137705	49.165 ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	332599	259.586 ug/l		100
59) 2-Hexanone	9.433	43	519476	271.943 ug/l		99
60) Dibromochloromethane	9.518	129	83515	49.073 ug/l		99
61) 1,2-Dibromoethane	9.610	107	85024	51.909 ug/l		97
64) Tetrachloroethene	9.269	164	66669	47.702 ug/l		98
65) Chlorobenzene	10.079	112	217180	48.133 ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	74531	51.396 ug/l		100
67) Ethyl Benzene	10.189	91	385605	49.461 ug/l		99
68) m/p-Xylenes	10.299	106	285774	99.896 ug/l		99
69) o-Xylene	10.640	106	144001	49.750 ug/l		98
70) Styrene	10.652	104	239508	51.617 ug/l		98
71) Bromoform	10.799	173	50972	50.269 ug/l	#	99
73) Isopropylbenzene	10.963	105	374769	49.014 ug/l		99
74) N-amyl acetate	10.841	43	183763	52.003 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	126615	47.676 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	103796m	46.544 ug/l		
77) Bromobenzene	11.195	156	87767	47.335 ug/l		99
78) n-propylbenzene	11.305	91	429443	50.816 ug/l		99
79) 2-Chlorotoluene	11.366	91	259860	47.546 ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	313435	49.431 ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	37038	47.861 ug/l		97
82) 4-Chlorotoluene	11.451	91	297641	49.178 ug/l		100
83) tert-Butylbenzene	11.713	119	309463	49.384 ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	313433	50.333 ug/l		100
85) sec-Butylbenzene	11.890	105	381109	50.097 ug/l		100
86) p-Isopropyltoluene	12.006	119	320882	50.678 ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	159094	49.122 ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	160742	48.280 ug/l		99
89) n-Butylbenzene	12.329	91	283284	53.207 ug/l		99
90) Hexachloroethane	12.536	117	48734	52.727 ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	160039	47.589 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26738	51.864 ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	99449	53.940 ug/l		98
94) Hexachlorobutadiene	13.725	225	37651	50.770 ug/l		98
95) Naphthalene	13.774	128	365781	50.827 ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	100209	51.244 ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

Reviewed By :John Carlone 12/12/2024
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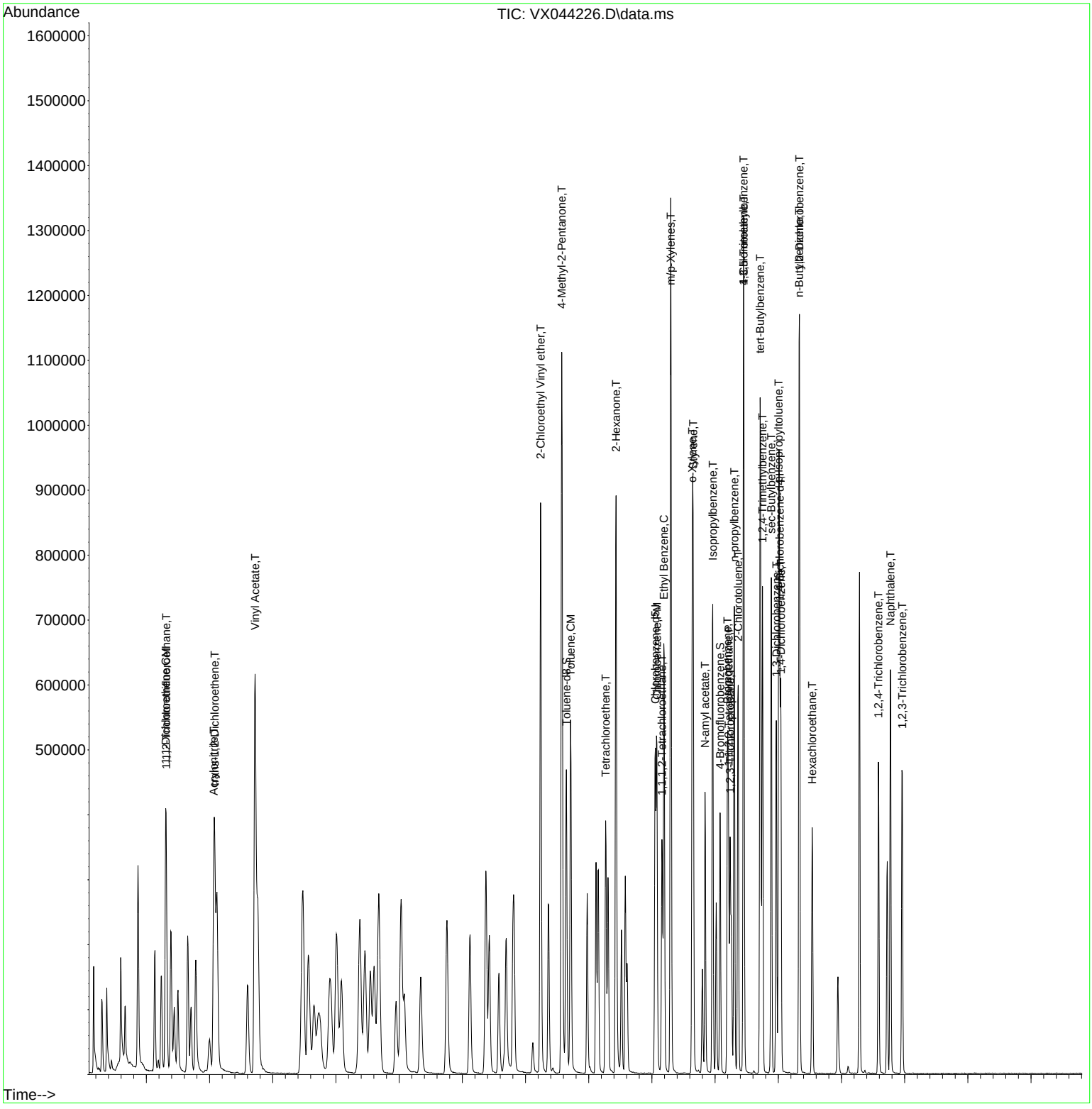
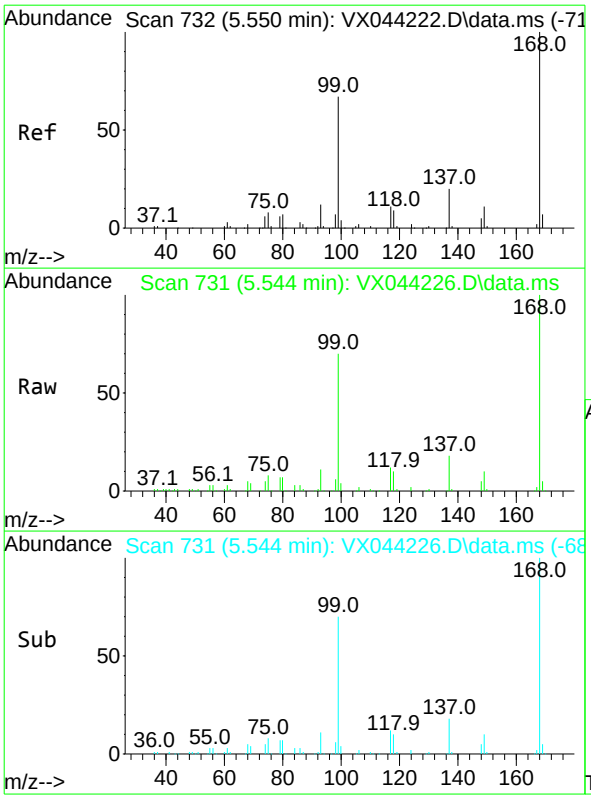
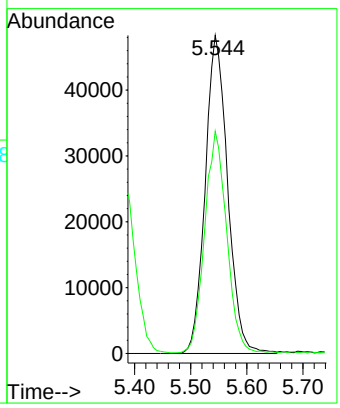




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:168 Resp: 134203

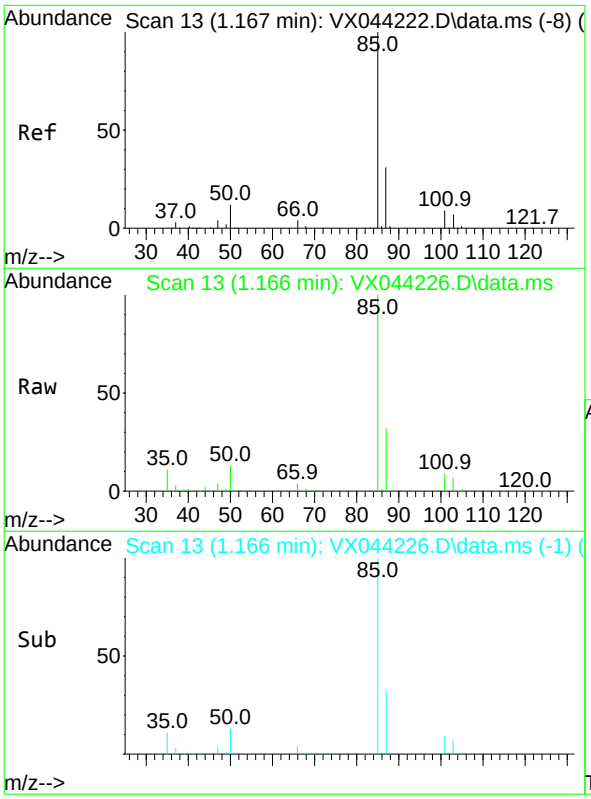
Ion	Ratio	Lower	Upper
168	100		
99	69.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

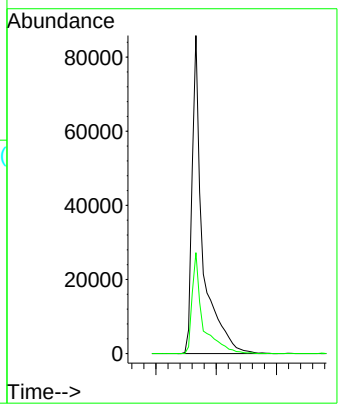
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

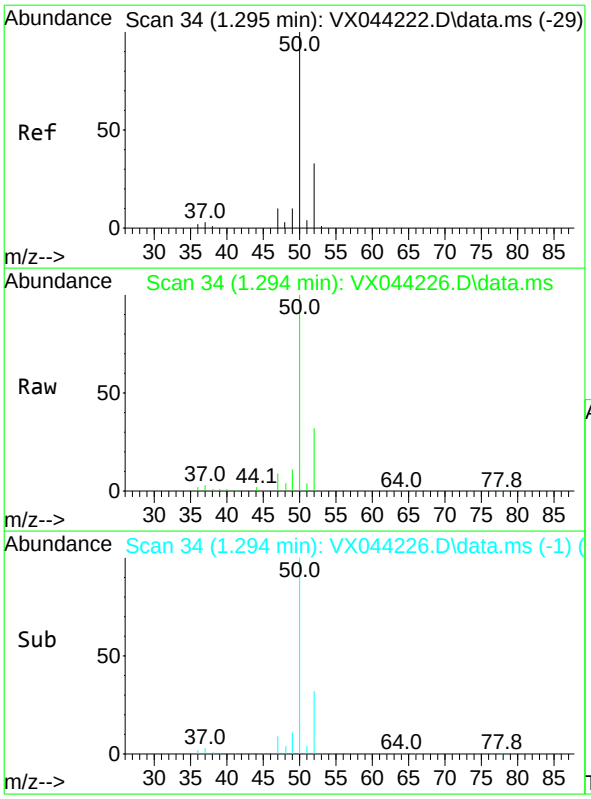


#2
Dichlorodifluoromethane
Concen: 50.390 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 85 Resp: 104566

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.4	46.4

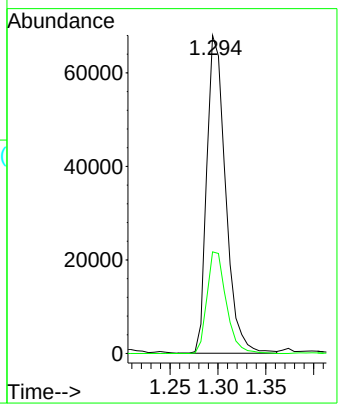




#3
Chloromethane
Concen: 46.681 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 50 Resp: 92633

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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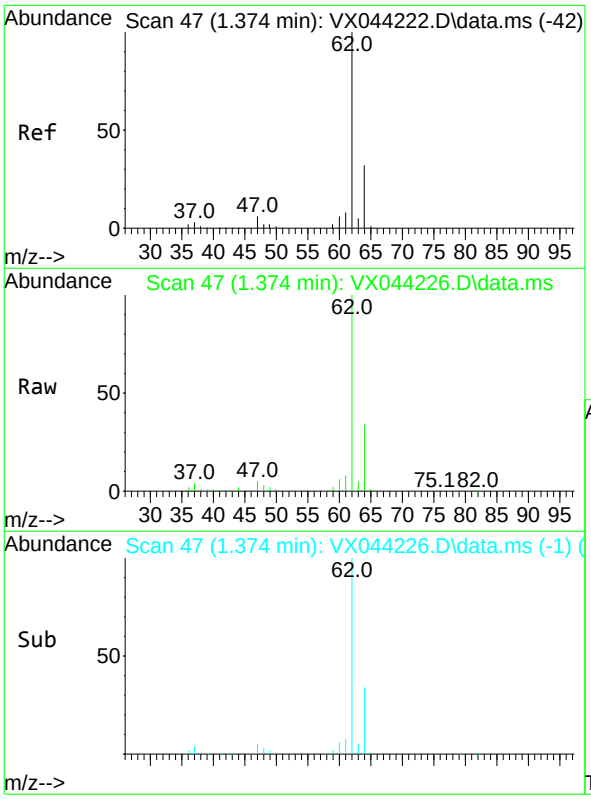
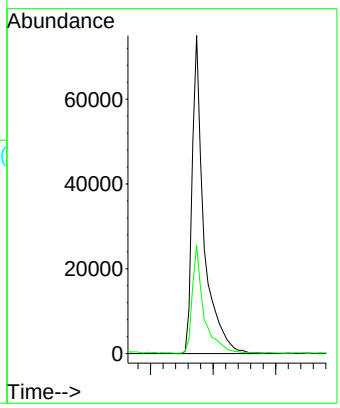
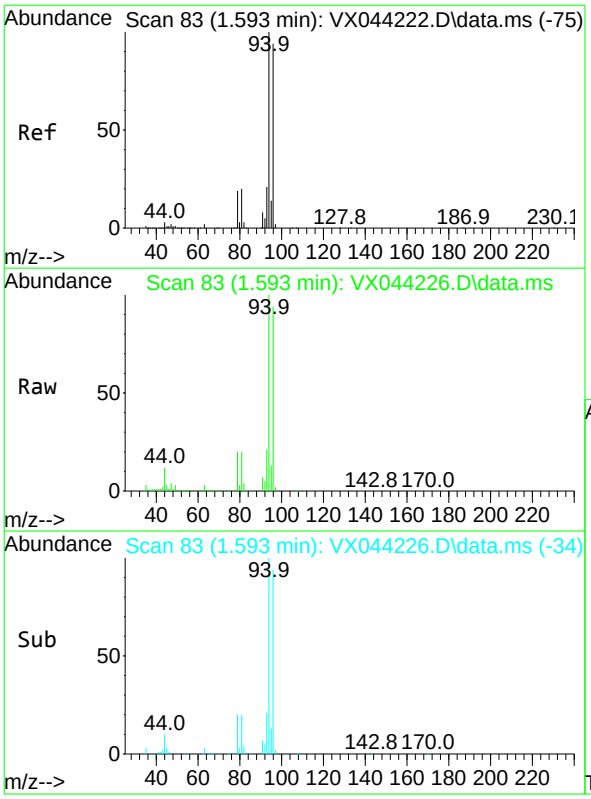


#4
Vinyl Chloride
Concen: 47.260 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 97702

Ion	Ratio	Lower	Upper
62	100		
64	33.9	25.7	38.5

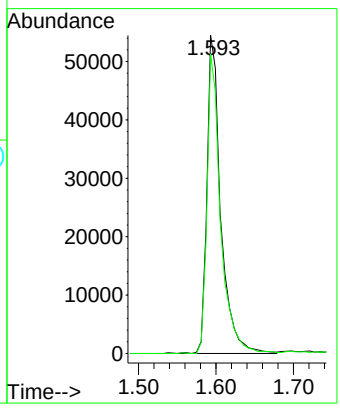




#5
Bromomethane
Concen: 45.926 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 94 Resp: 67357

Ion	Ratio	Lower	Upper
94	100		
96	94.2	74.9	112.3



Instrument :
MSVOA_X
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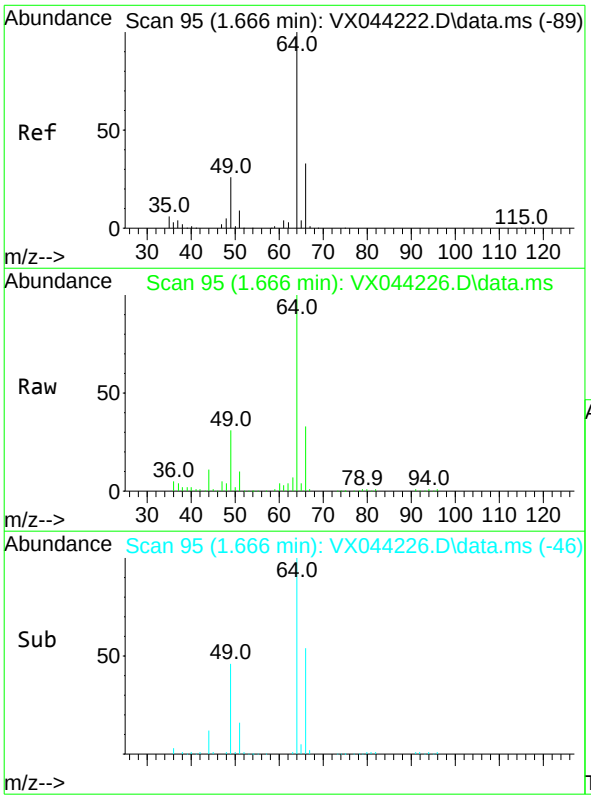
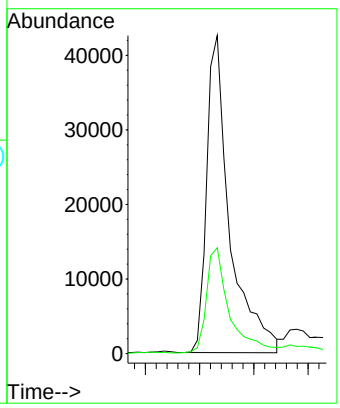
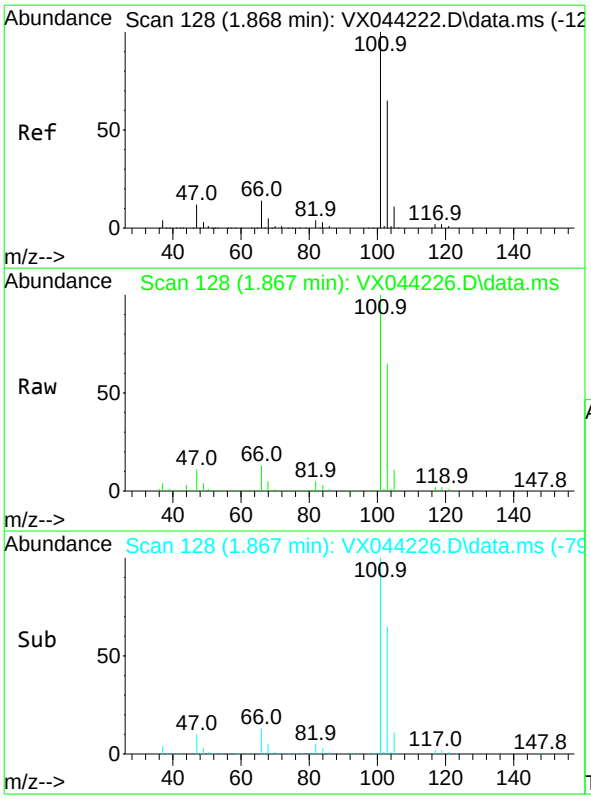


#6
Chloroethane
Concen: 48.801 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 64 Resp: 62821

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8

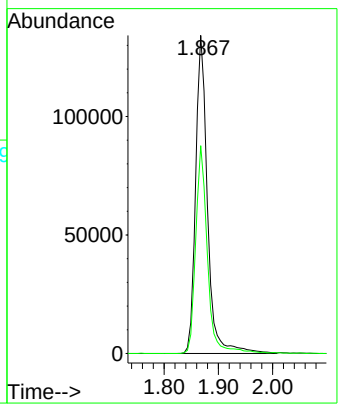




#7
Trichlorofluoromethane
Concen: 50.311 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:101 Resp: 203619

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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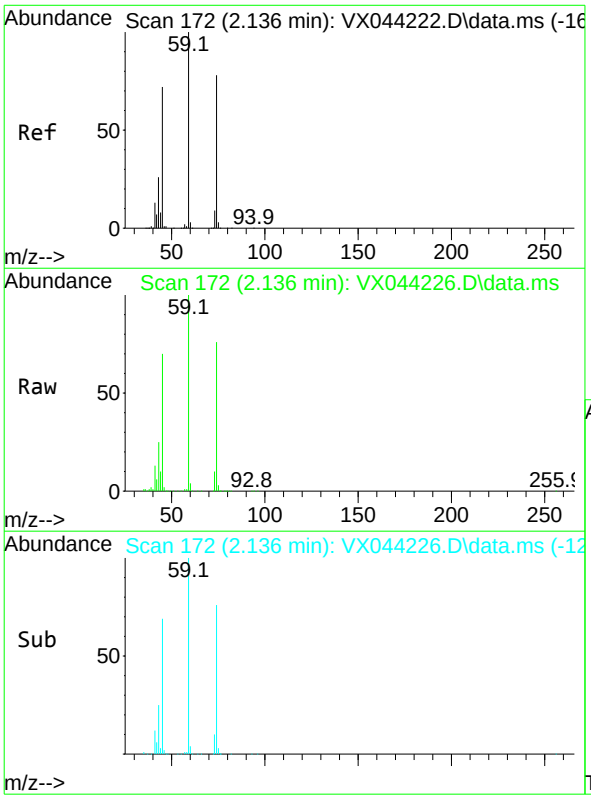
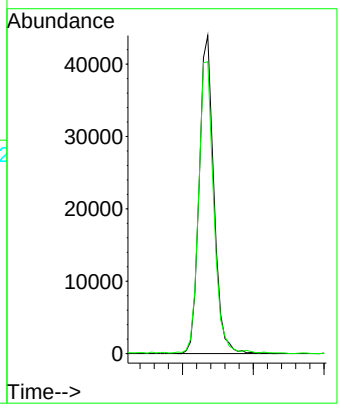
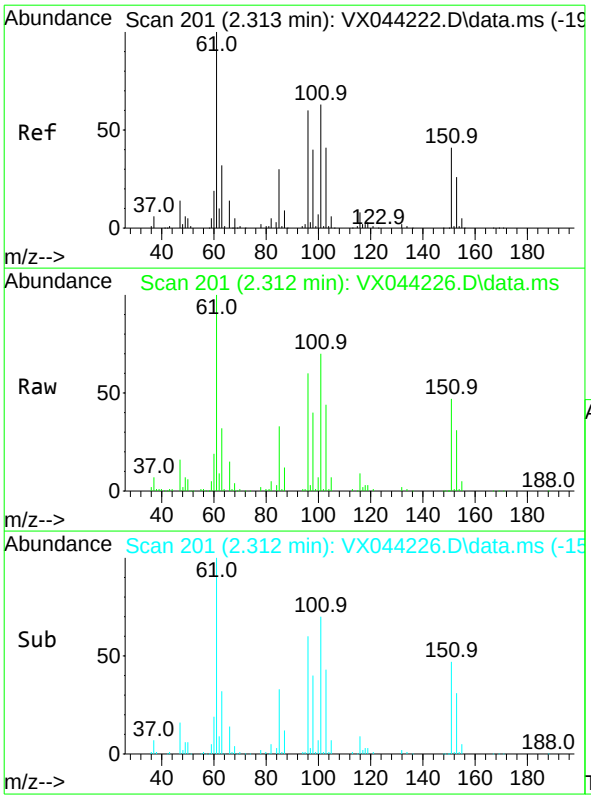


#8
Diethyl Ether
Concen: 45.658 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 74 Resp: 63075

Ion	Ratio	Lower	Upper
74	100		
45	94.4	48.4	145.0





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.374 ug/l
RT: 2.312 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:101 Resp: 82498

Ion	Ratio	Lower	Upper
101	100		
85	47.1	38.5	57.7
151	68.6	55.8	83.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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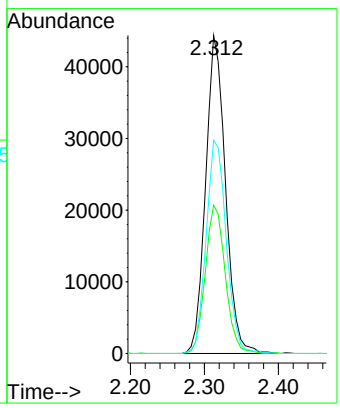
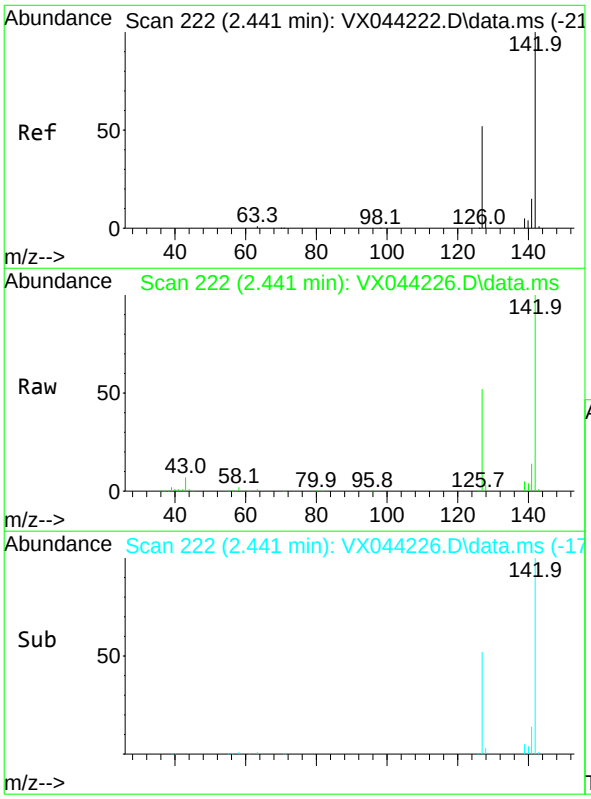
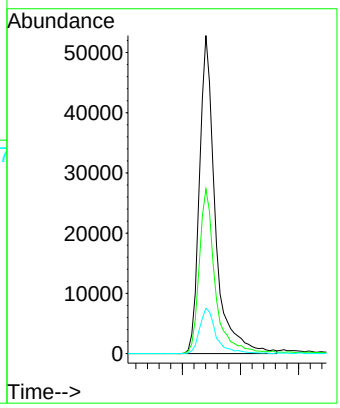


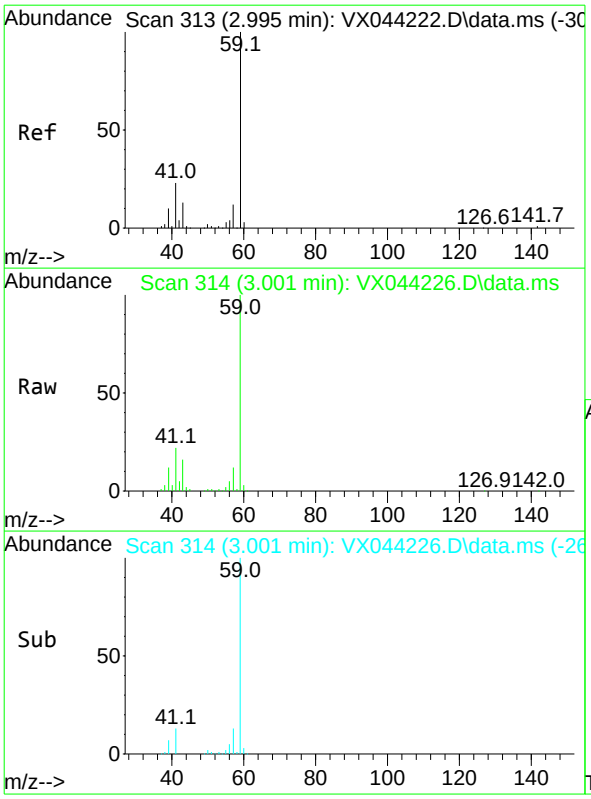


#10
Methyl Iodide
Concen: 46.349 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:142 Resp: 100043

Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.8	11.5	17.3

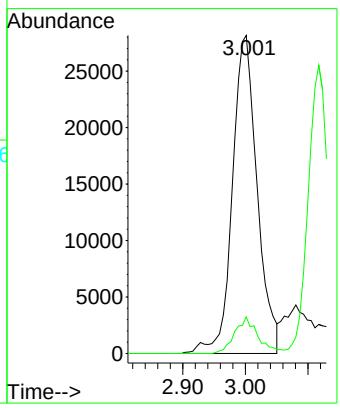




#11
Tert butyl alcohol
Concen: 233.680 ug/l
RT: 3.001 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 59 Resp: 77494

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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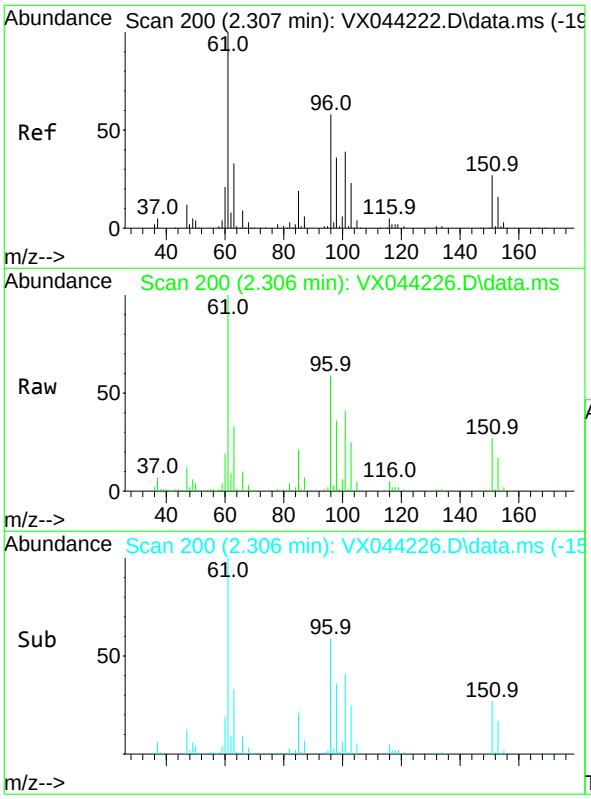
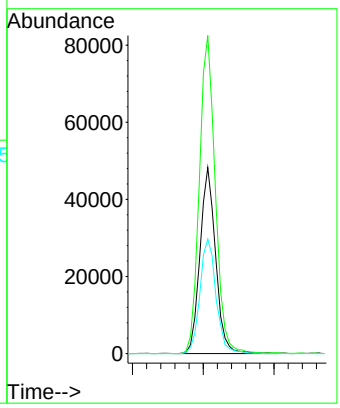
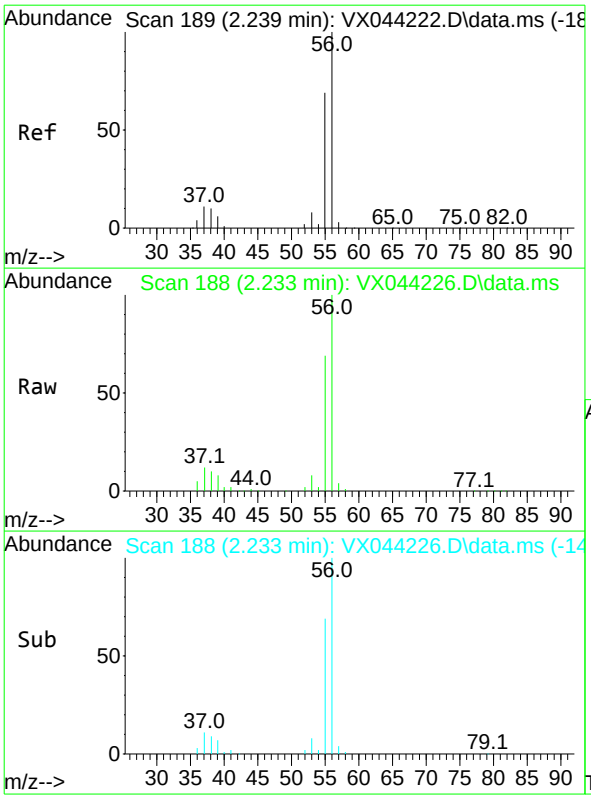


#12
1,1-Dichloroethene
Concen: 49.311 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 74177

Ion	Ratio	Lower	Upper
96	100		
61	170.9	138.0	207.0
98	61.6	50.0	75.0

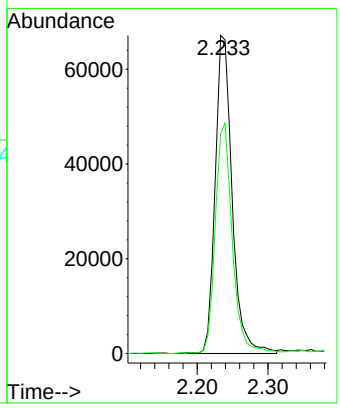




#13
Acrolein
Concen: 233.162 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 56 Resp: 111927

Ion	Ratio	Lower	Upper
56	100		
55	72.8	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

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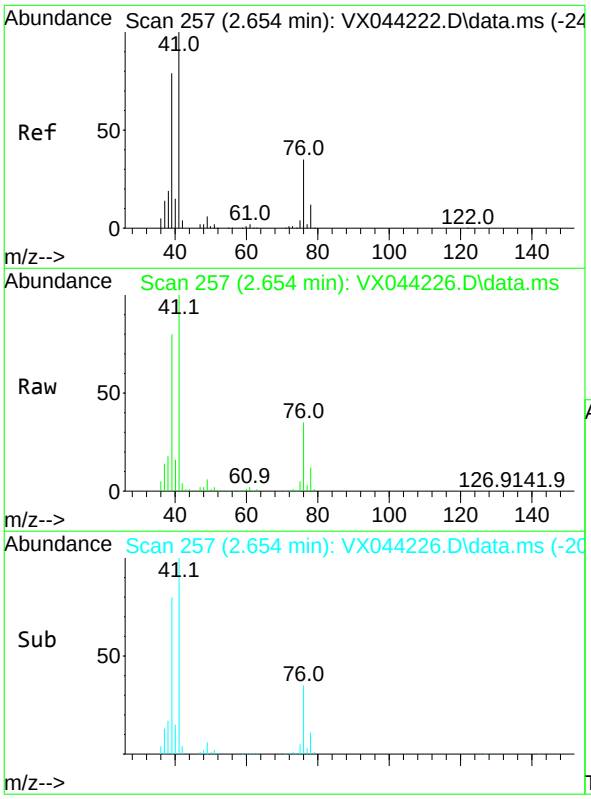
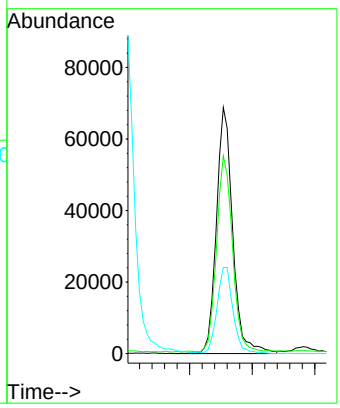
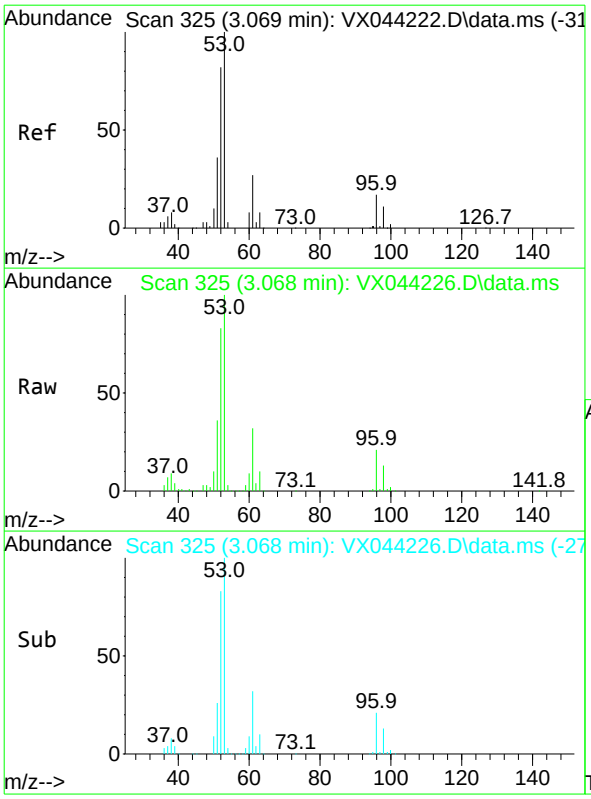


#14
Allyl chloride
Concen: 49.744 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 124635

Ion	Ratio	Lower	Upper
41	100		
39	77.3	61.9	92.9
76	34.4	27.4	41.2

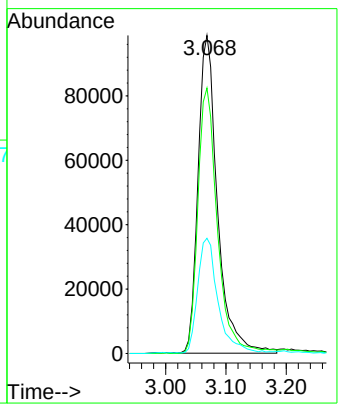




#15
Acrylonitrile
Concen: 240.620 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 53 Resp: 221037

Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.4	101.0
51	37.6	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
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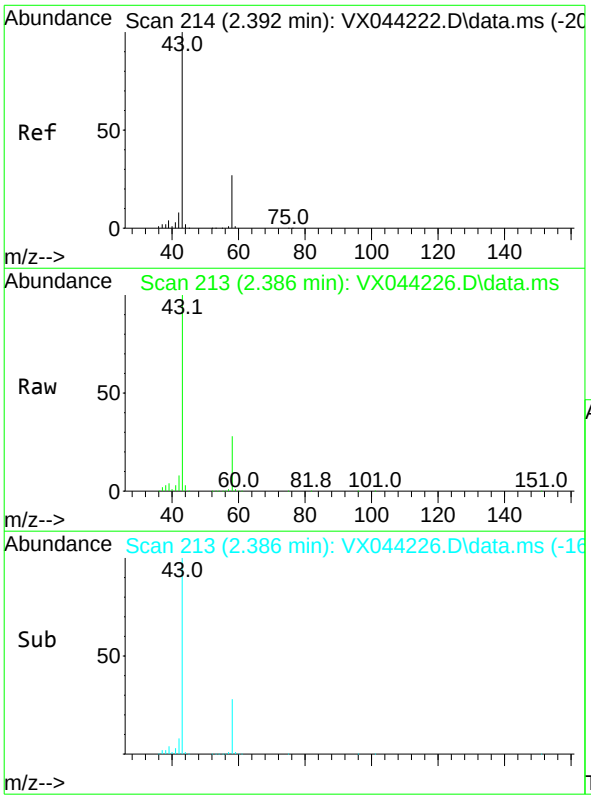
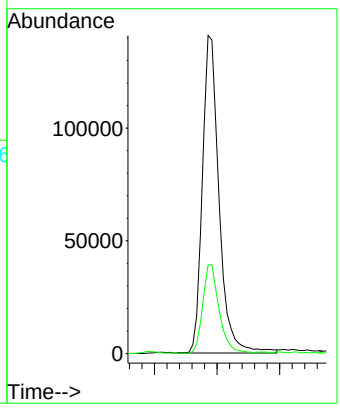
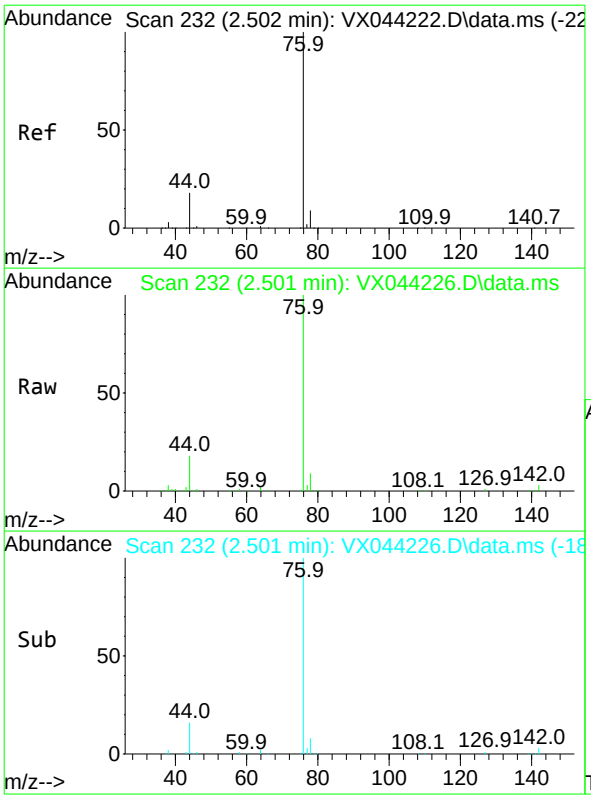


#16
Acetone
Concen: 271.312 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 260267

Ion	Ratio	Lower	Upper
43	100		
58	27.8	21.6	32.4

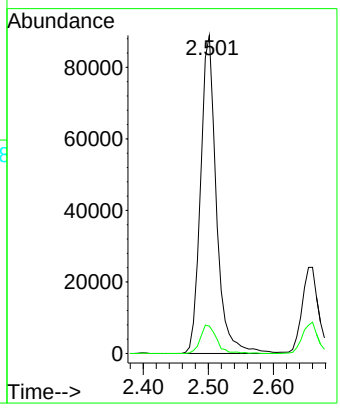




#17
Carbon Disulfide
Concen: 52.397 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 76 Resp: 149824

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
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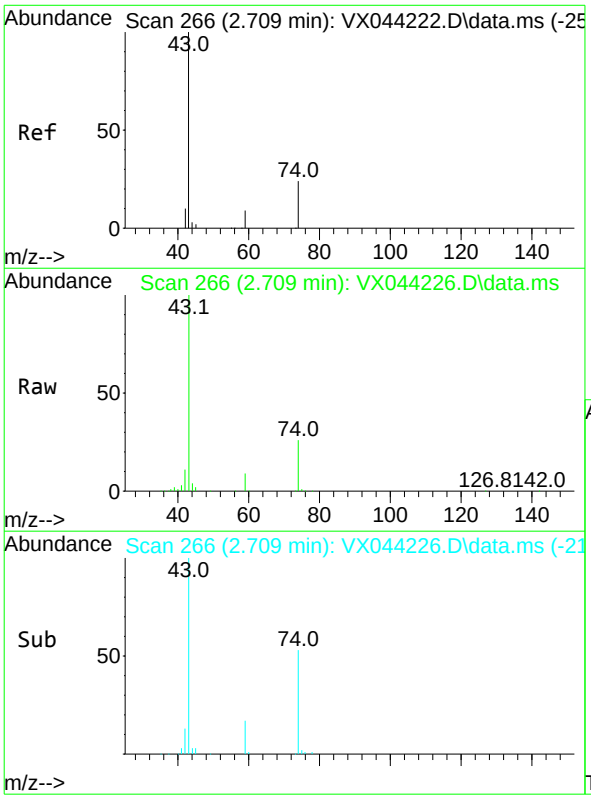
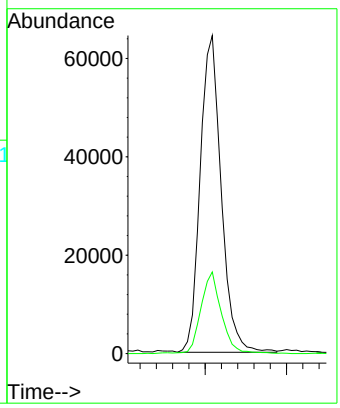
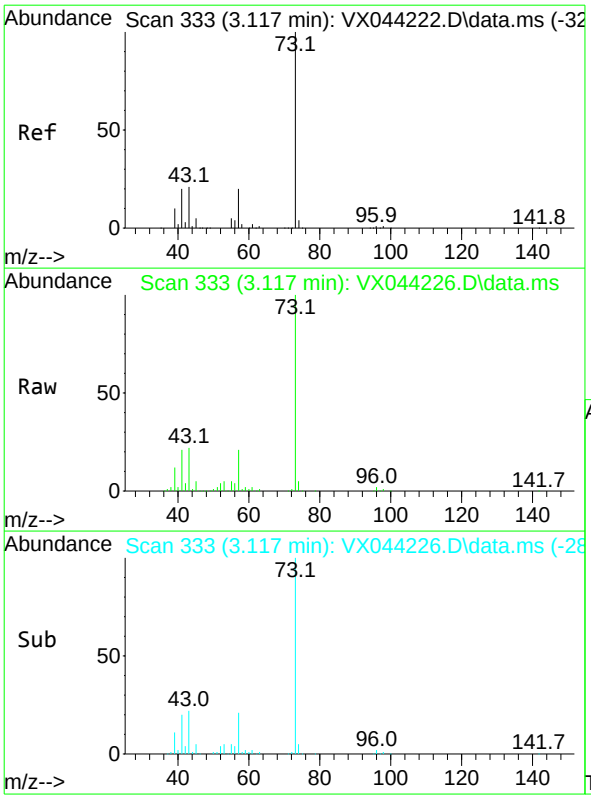


#18
Methyl Acetate
Concen: 46.725 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 115569

Ion	Ratio	Lower	Upper
43	100		
74	25.3	17.7	26.5

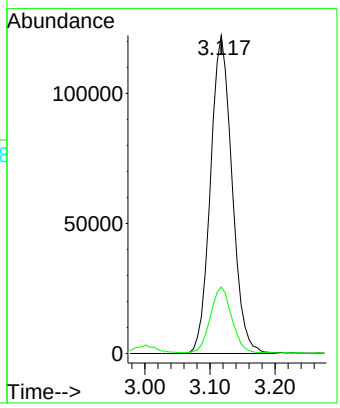




#19
Methyl tert-butyl Ether
Concen: 47.940 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 73 Resp: 281413

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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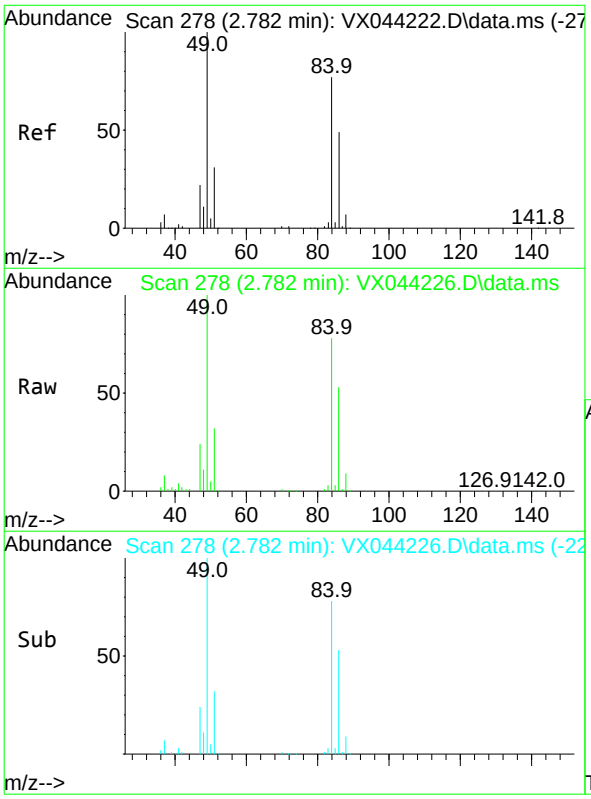
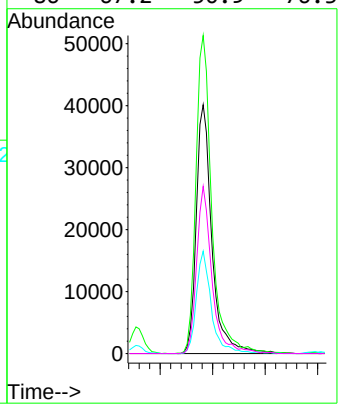
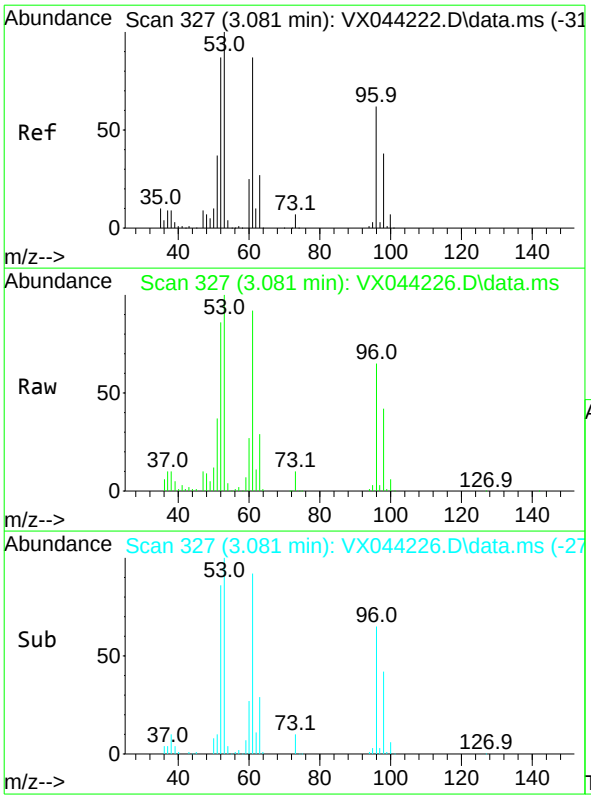


#20
Methylene Chloride
Concen: 46.170 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 84 Resp: 83188

Ion	Ratio	Lower	Upper
84	100		
49	127.6	104.2	156.4
51	41.1	32.2	48.4
86	67.2	50.9	76.3

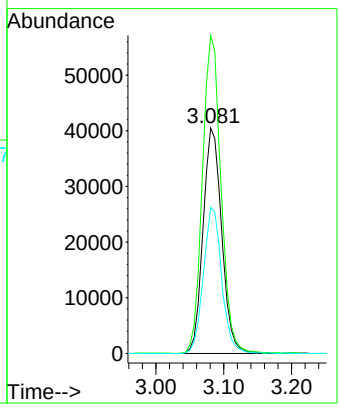




#21
trans-1,2-Dichloroethene
Concen: 48.459 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 77471

Ion	Ratio	Lower	Upper
96	100		
61	141.0	112.0	168.0
98	64.7	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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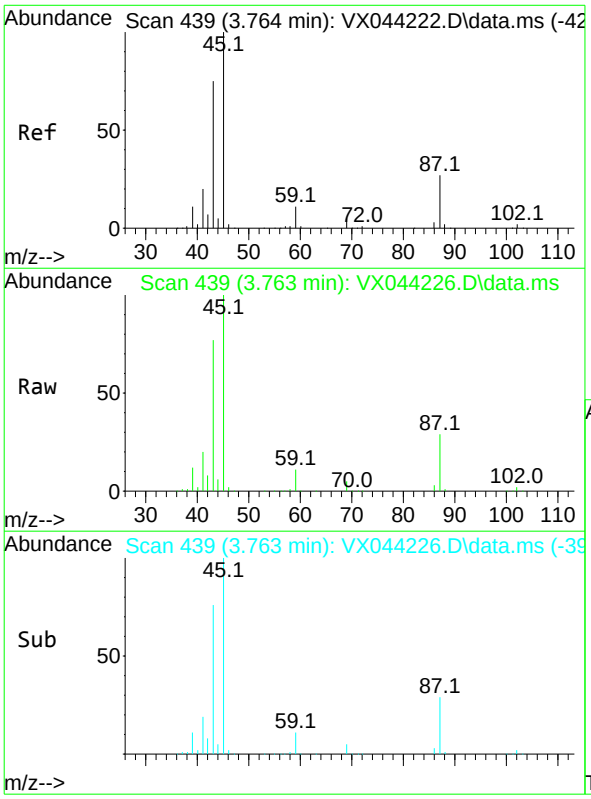
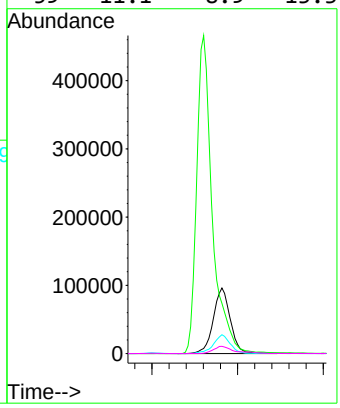
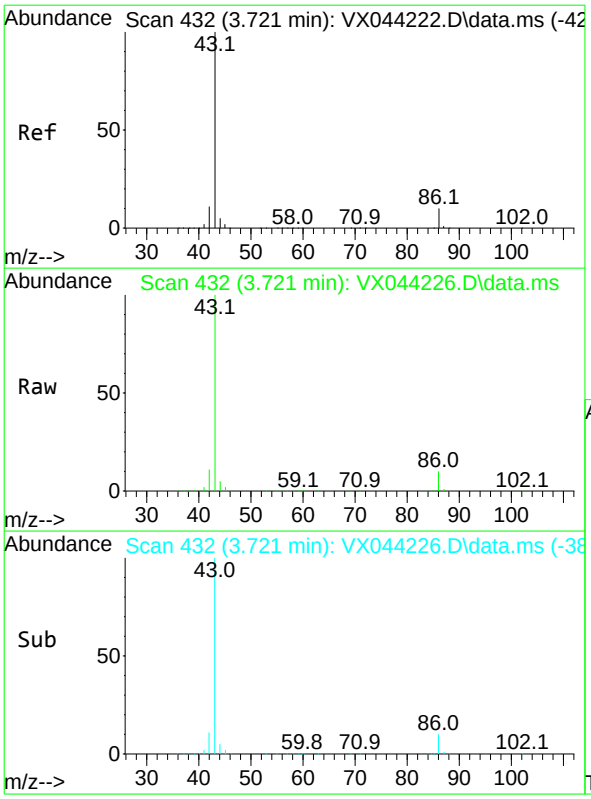


#22
Diisopropyl ether
Concen: 46.922 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 45 Resp: 264732

Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.8	21.2	31.8
59	11.1	8.9	13.3

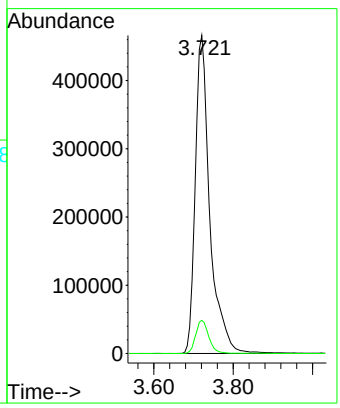




#23
Vinyl Acetate
Concen: 258.510 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 1185779

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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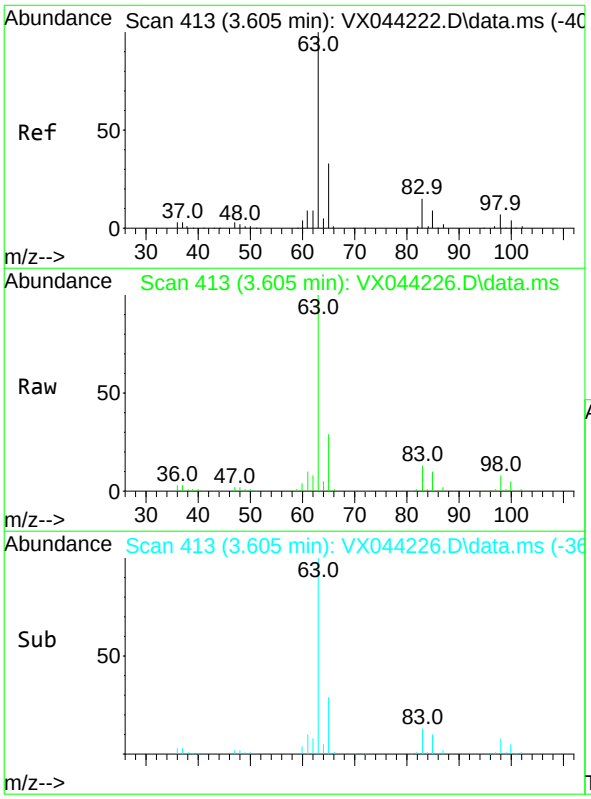
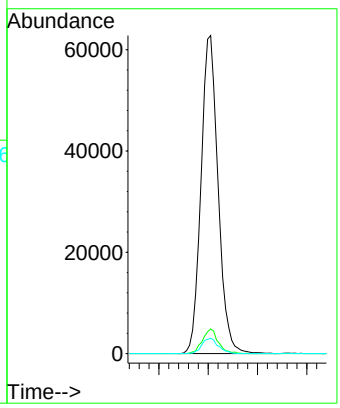
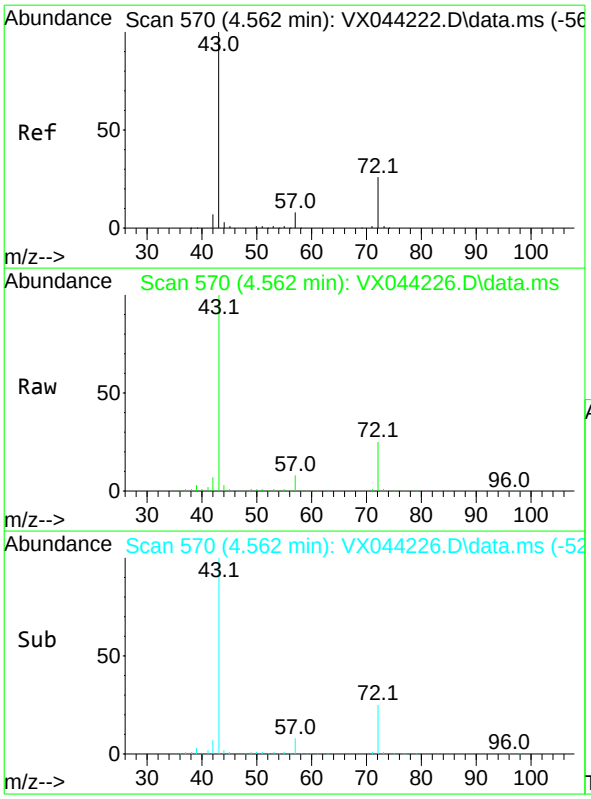


#24
1,1-Dichloroethane
Concen: 48.056 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 151134

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.6	10.8
100	4.8	2.1	6.3

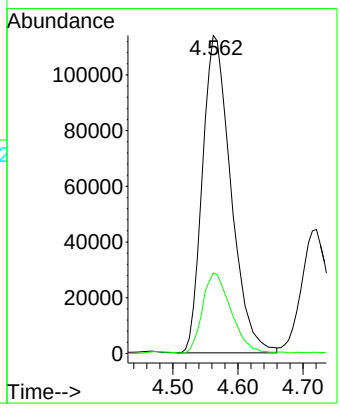




#25
2-Butanone
Concen: 253.747 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 346052

Ion	Ratio	Lower	Upper
43	100		
72	25.2	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
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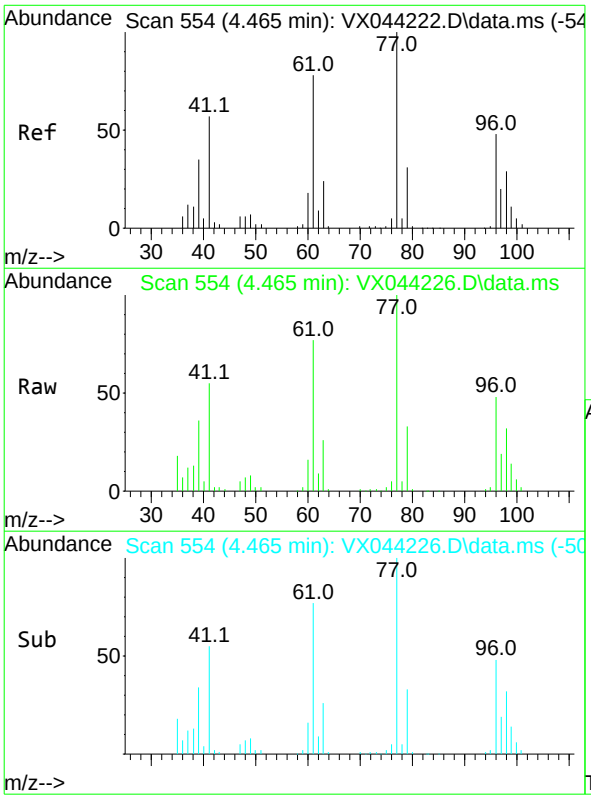
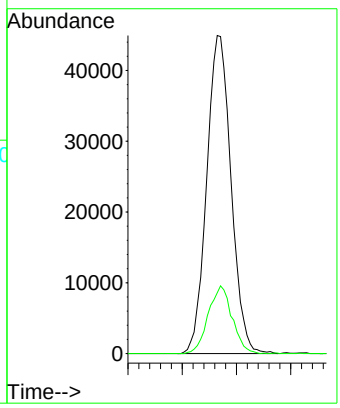
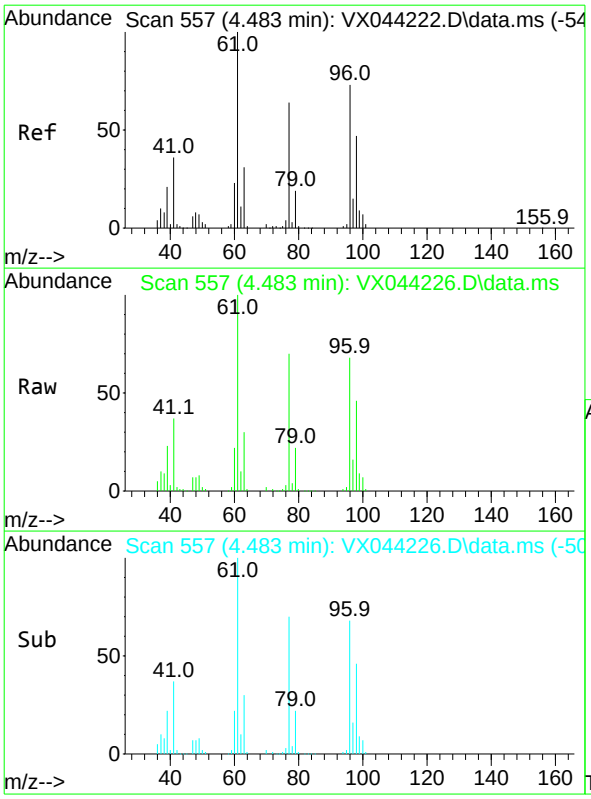


#26
2,2-Dichloropropane
Concen: 54.872 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 77 Resp: 140196

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1

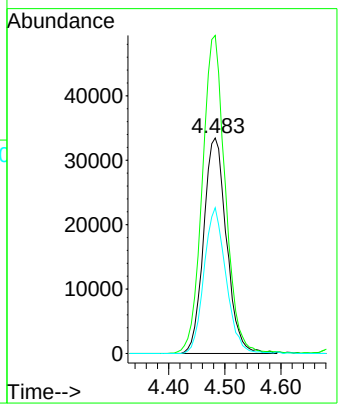




#27
cis-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 94838

Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	299.0
98	64.9	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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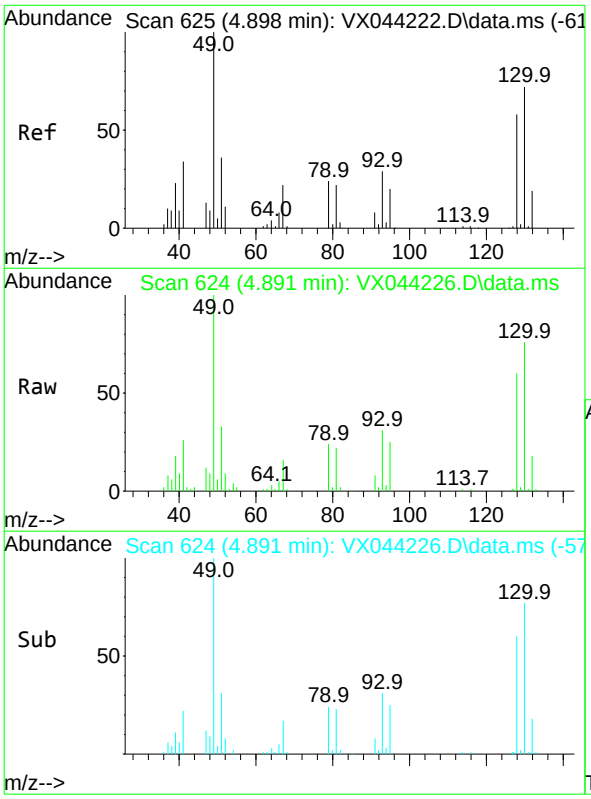
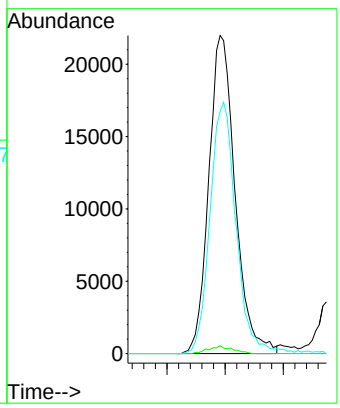
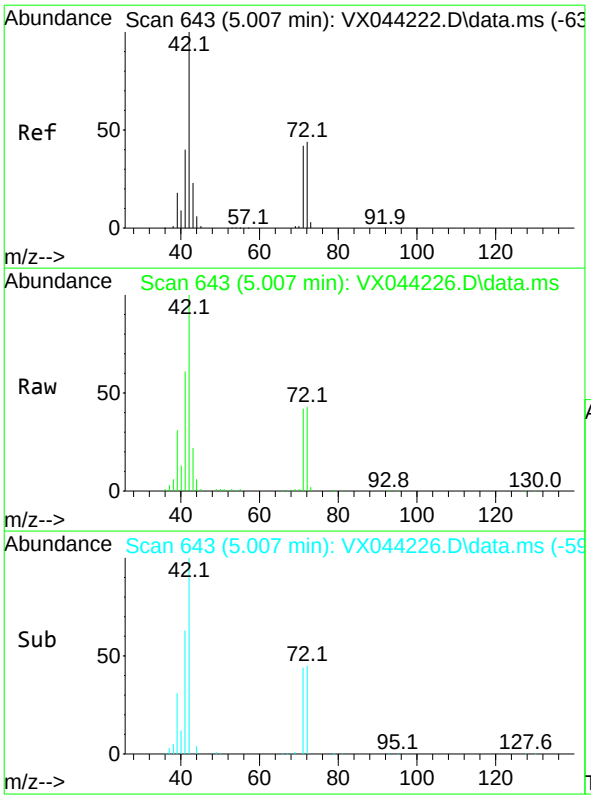


#28
Bromochloromethane
Concen: 44.832 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 49 Resp: 69139

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	78.1	62.1	93.1

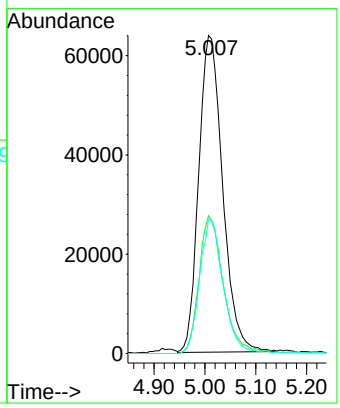




#29
Tetrahydrofuran
Concen: 238.031 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 42 Resp: 208362

Ion	Ratio	Lower	Upper
42	100		
72	44.2	37.0	55.6
71	41.5	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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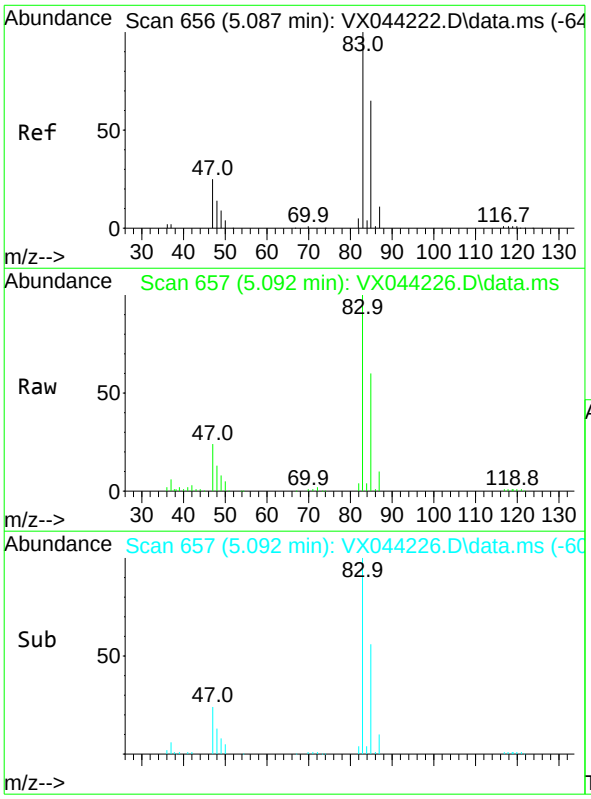
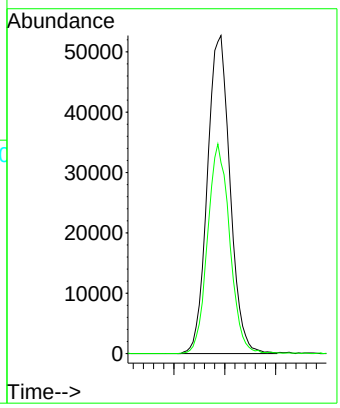
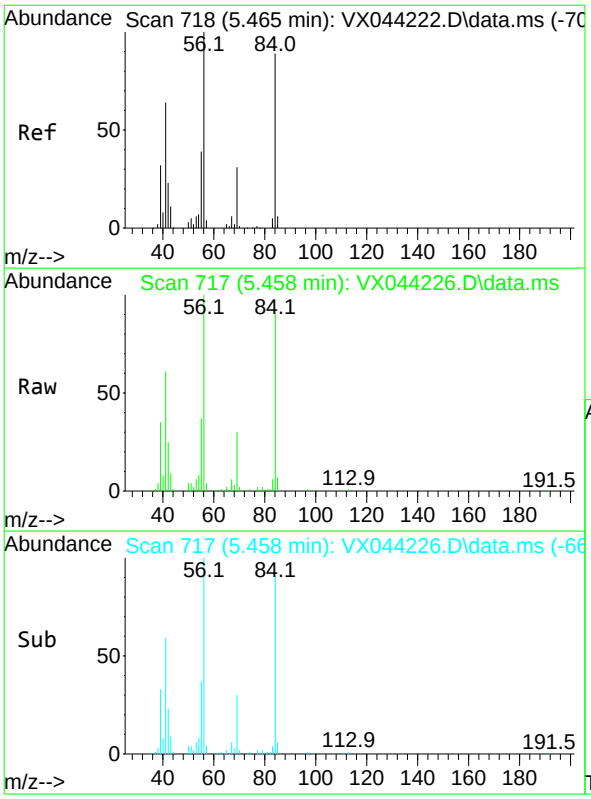


#30
Chloroform
Concen: 46.235 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 163372

Ion	Ratio	Lower	Upper
83	100		
85	60.0	51.6	77.4

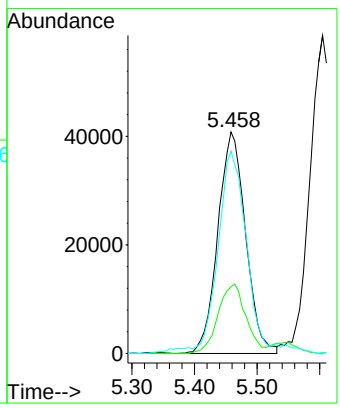




#31
Cyclohexane
Concen: 49.443 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 56 Resp: 125567

Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.7	37.1
84	88.8	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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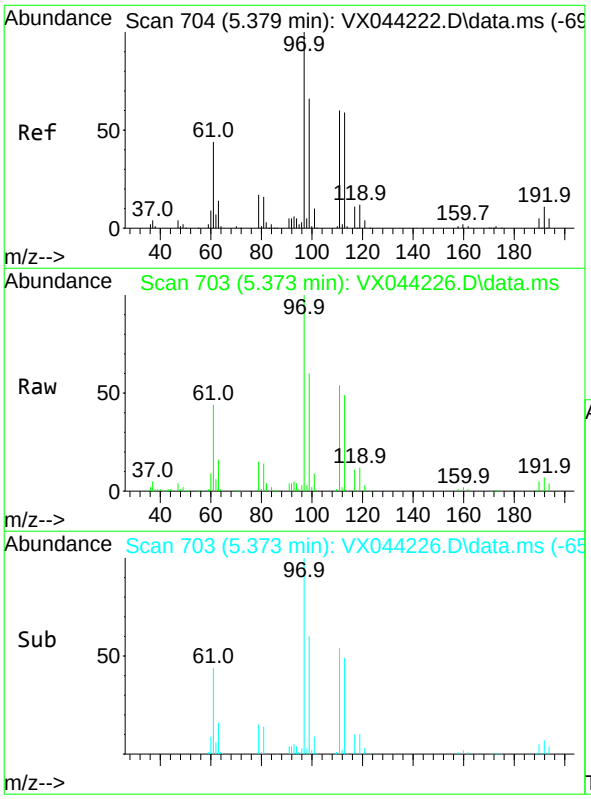
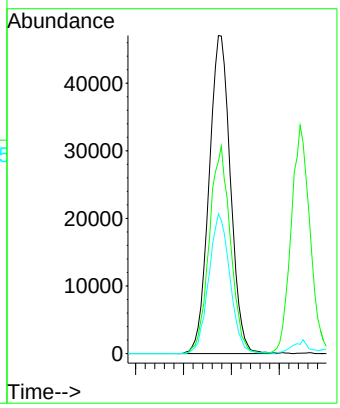
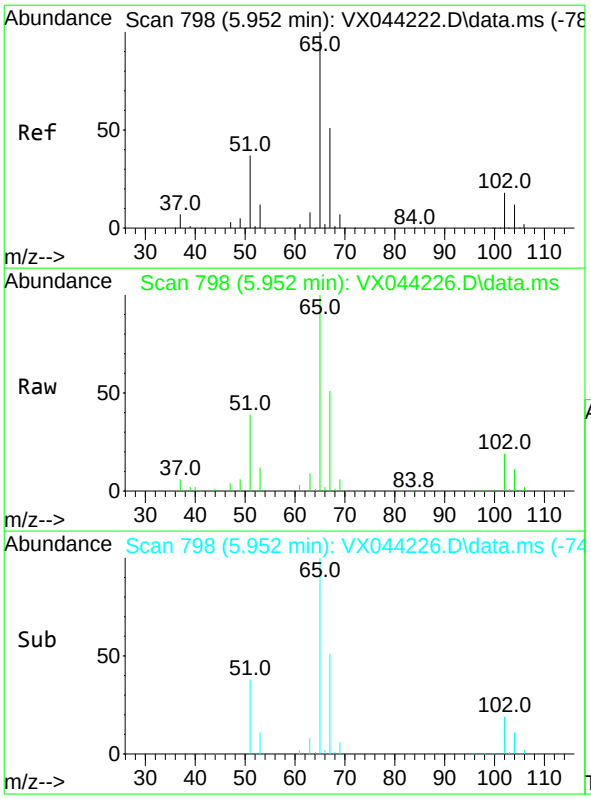


#32
1,1,1-Trichloroethane
Concen: 49.895 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 97 Resp: 146348

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.8	76.2
61	43.3	35.2	52.8

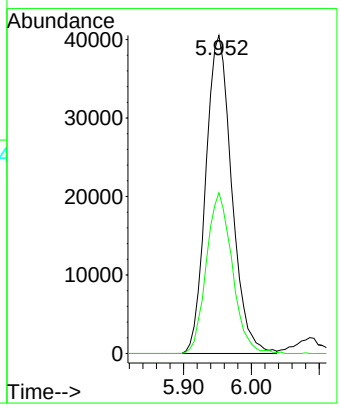




#33
1,2-Dichloroethane-d4
Concen: 45.646 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 65 Resp: 107407

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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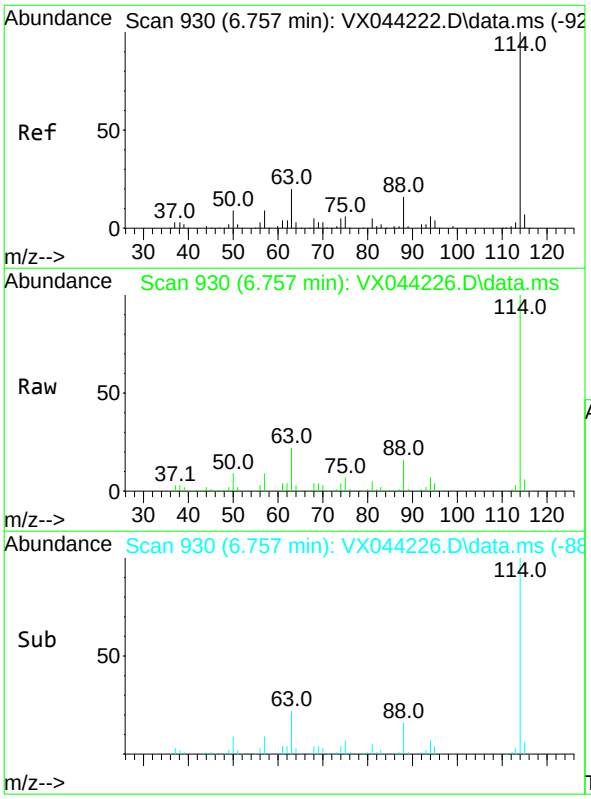
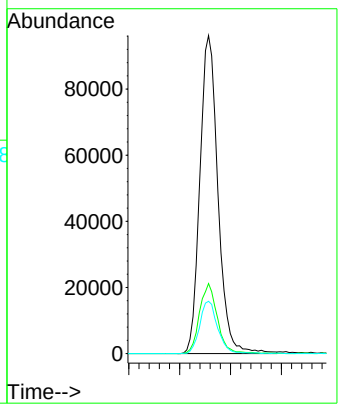
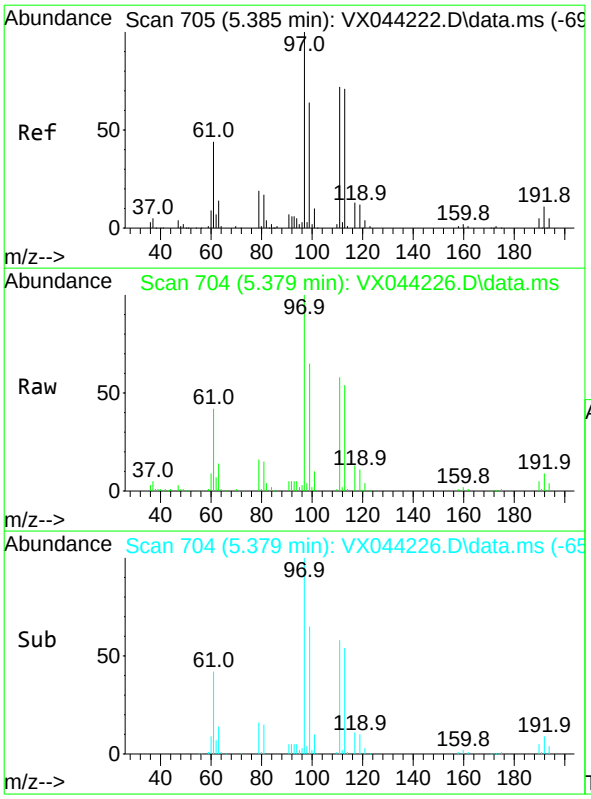


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:114 Resp: 237295

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.4	0.0	31.8

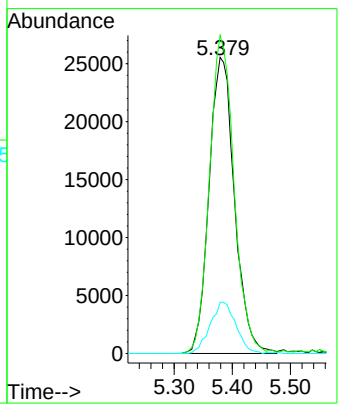




#35
Dibromofluoromethane
Concen: 47.228 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:113 Resp: 77619

Ion	Ratio	Lower	Upper
113	100		
111	103.8	80.4	120.6
192	17.5	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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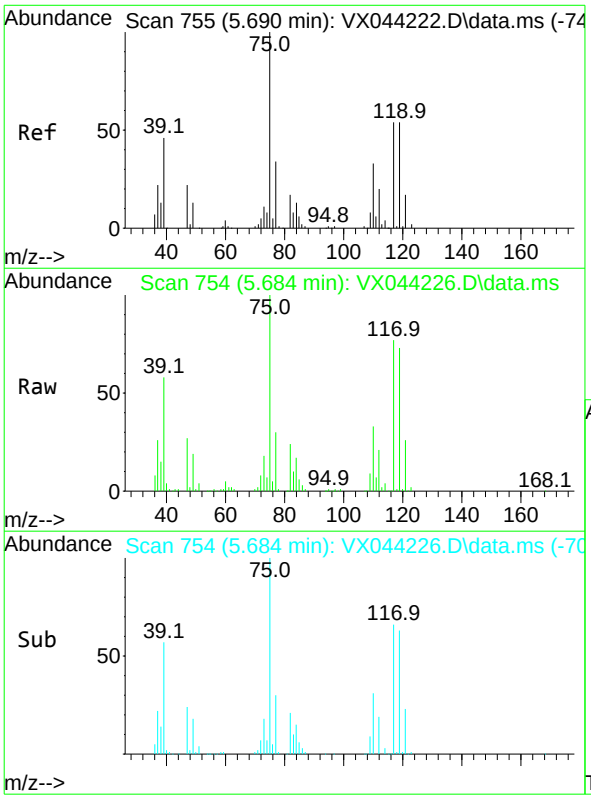
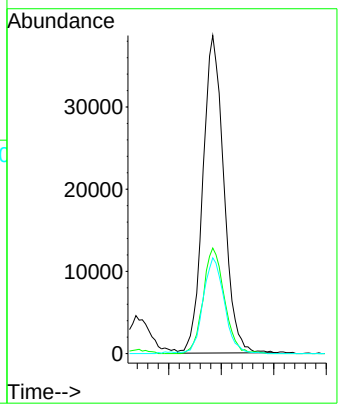
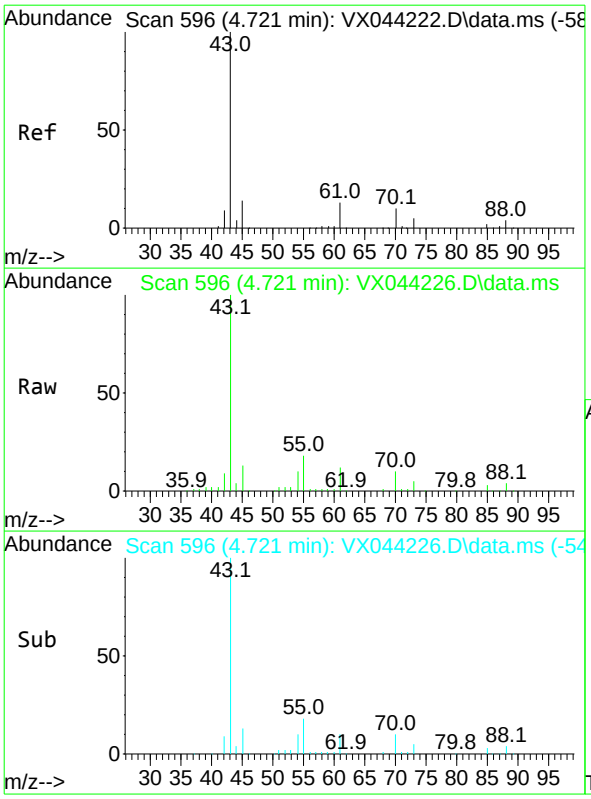


#36
1,1-Dichloropropene
Concen: 50.314 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 106889

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.3	51.7
77	30.5	25.4	38.0

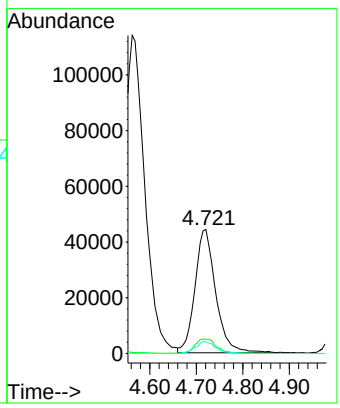




#37
Ethyl Acetate
Concen: 52.176 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 137017

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

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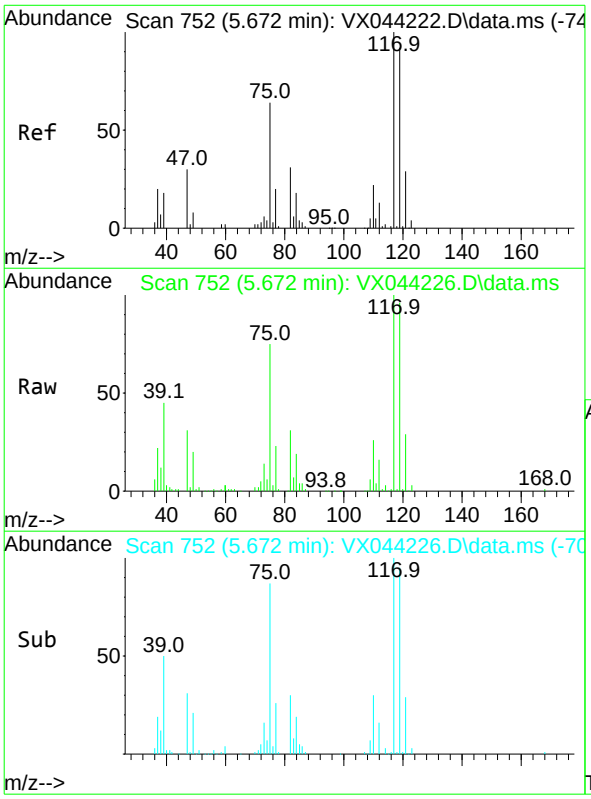
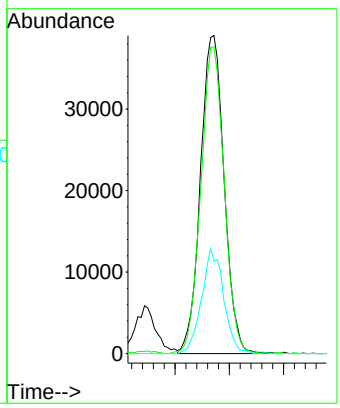
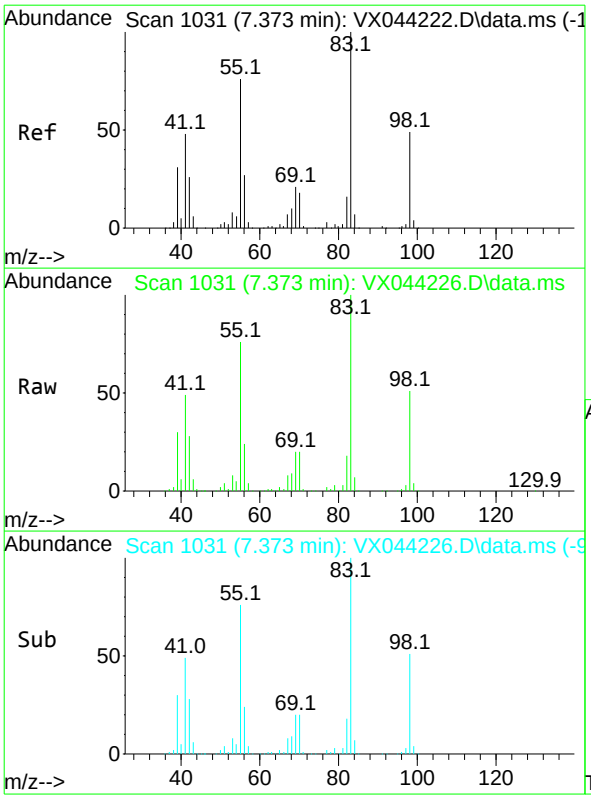


#38
Carbon Tetrachloride
Concen: 51.763 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 118390

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.2	111.4
121	29.1	23.0	34.6

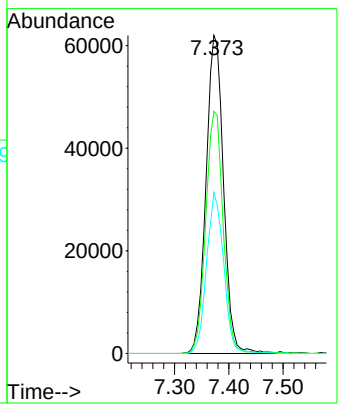




#39
Methylcyclohexane
Concen: 54.761 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 139077

Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.7	91.1
98	50.6	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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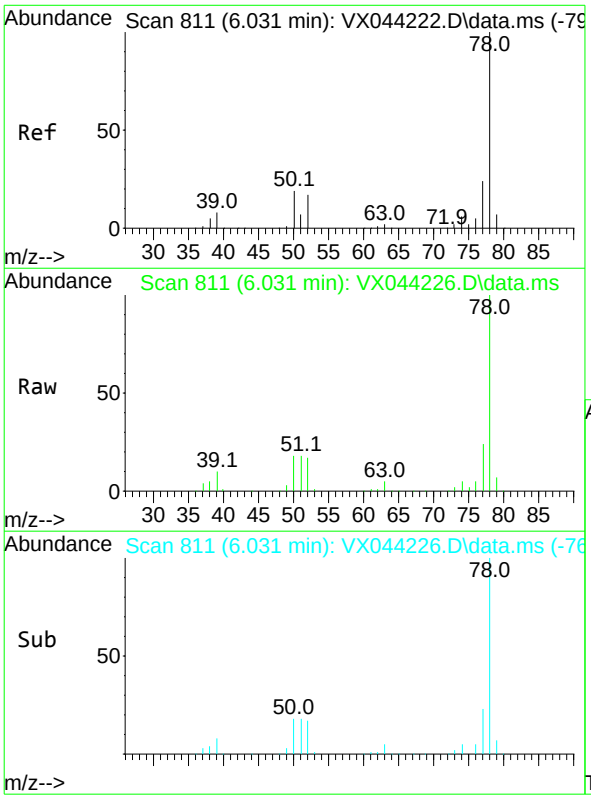
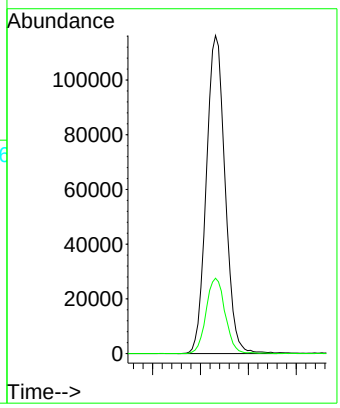
Supervised By :Mahesh Dadoda 12/12/2024

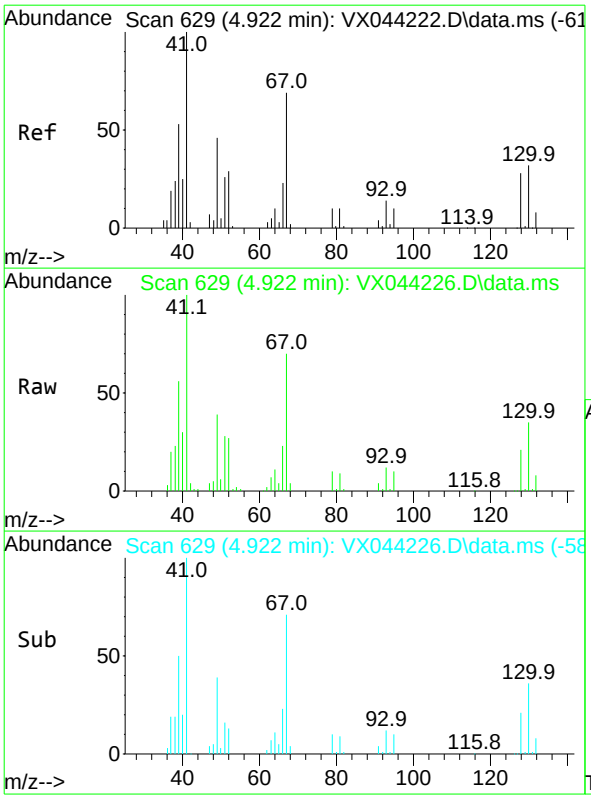


#40
Benzene
Concen: 49.052 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 78 Resp: 316391

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9

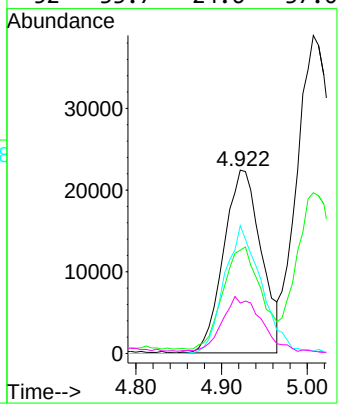




#41
Methacrylonitrile
Concen: 48.945 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 68251

Ion	Ratio	Lower	Upper
41	100		
39	56.3	44.2	66.4
67	69.8	57.2	85.8
52	33.7	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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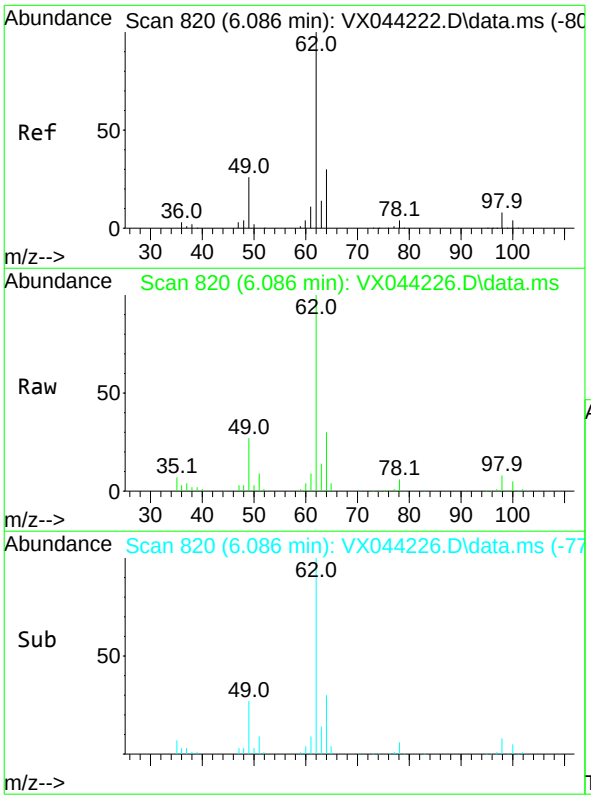
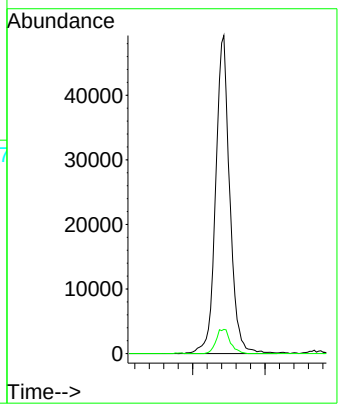
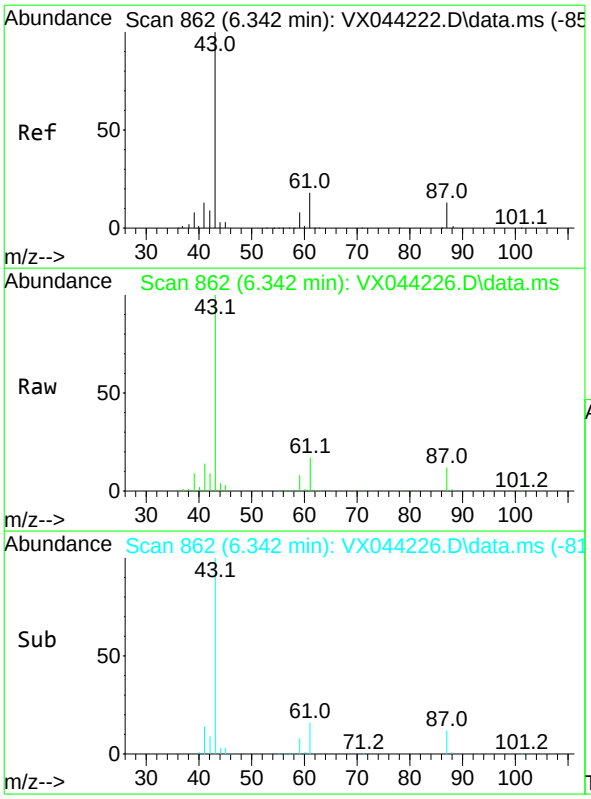


#42
1,2-Dichloroethane
Concen: 49.960 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 132744

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.8

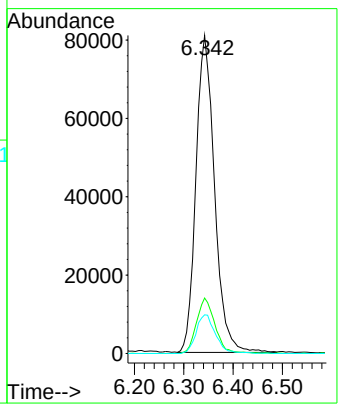




#43
Isopropyl Acetate
Concen: 51.624 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 211889

Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.2	21.2
87	12.7	10.2	15.2



Instrument :
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ClientSampleId :
ICVVX121124

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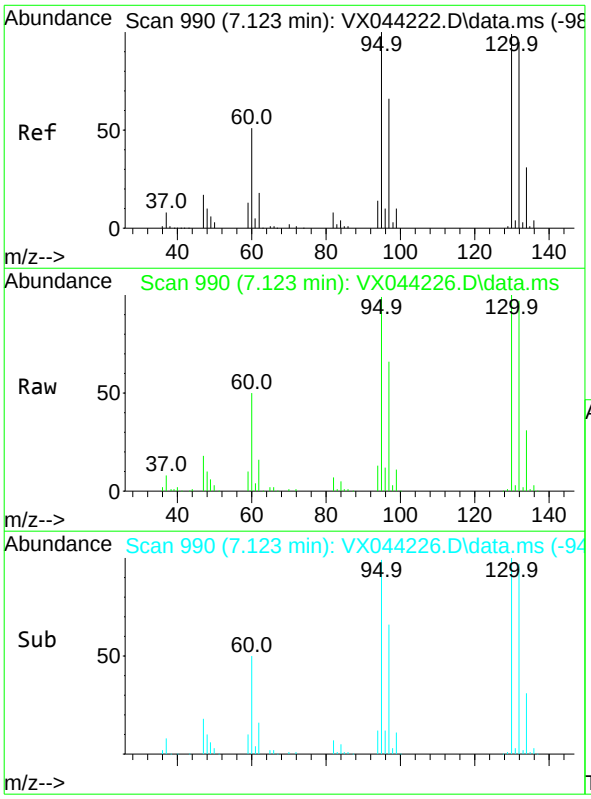
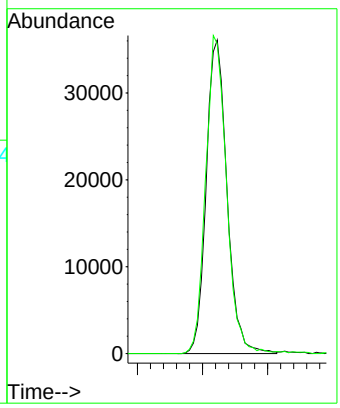
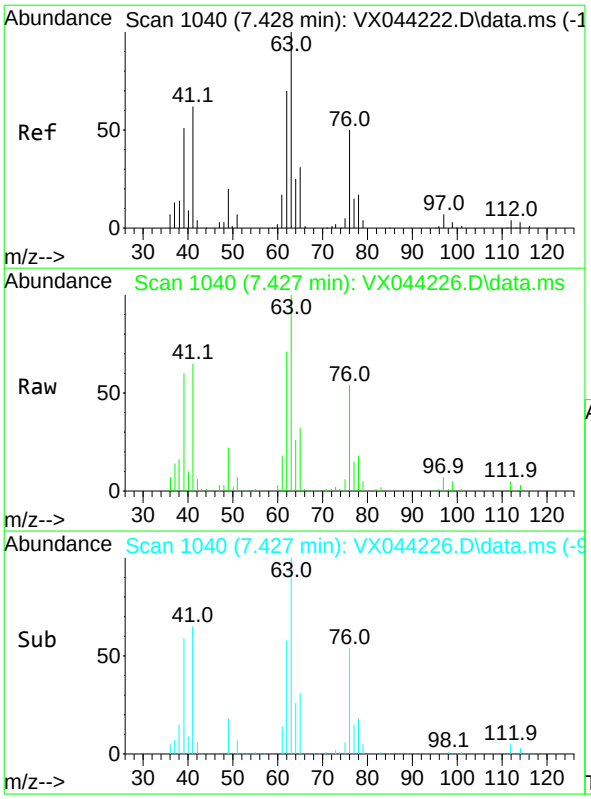


#44
Trichloroethene
Concen: 49.741 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:130 Resp: 80008

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	201.4

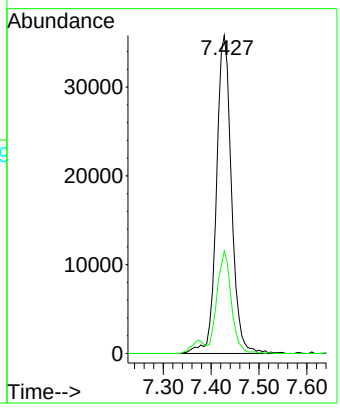




#45
1,2-Dichloropropane
Concen: 47.528 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 78321

Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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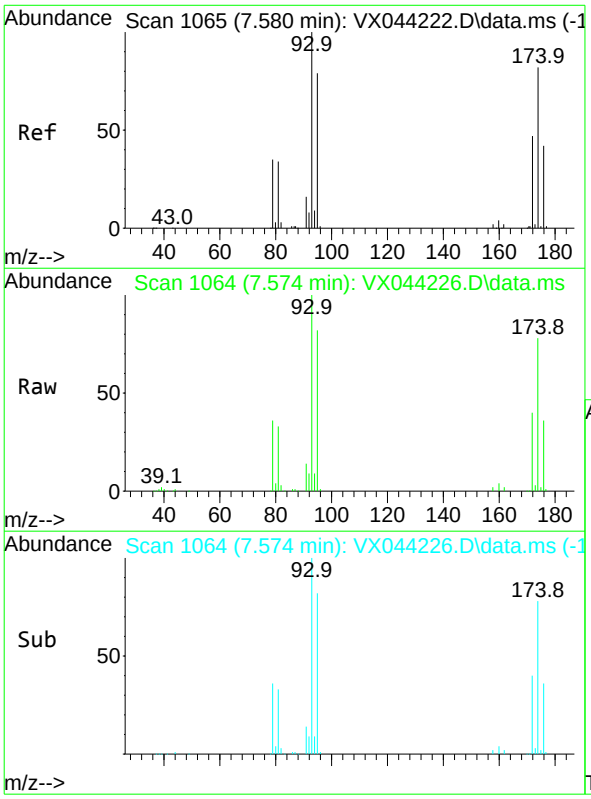
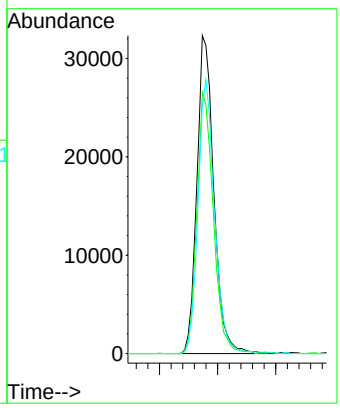
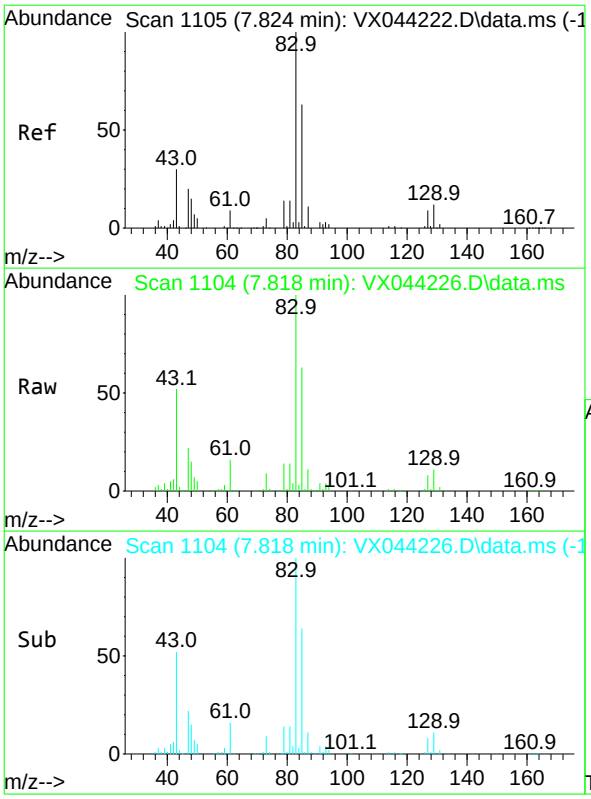


#46
Dibromomethane
Concen: 51.227 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 93 Resp: 65491

Ion	Ratio	Lower	Upper
93	100		
95	80.5	65.4	98.2
174	84.0	67.9	101.9

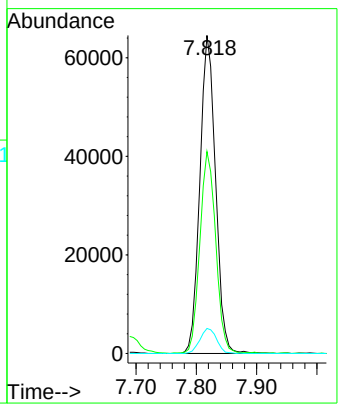




#47
Bromodichloromethane
Concen: 52.893 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 116783

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	7.9	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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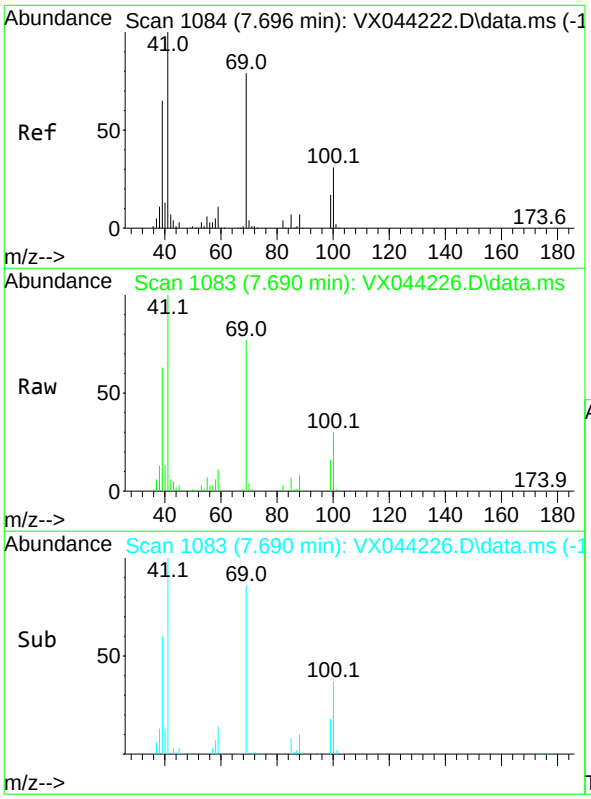
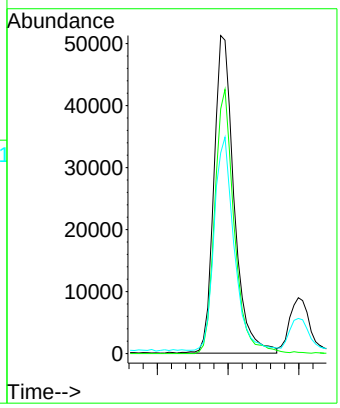
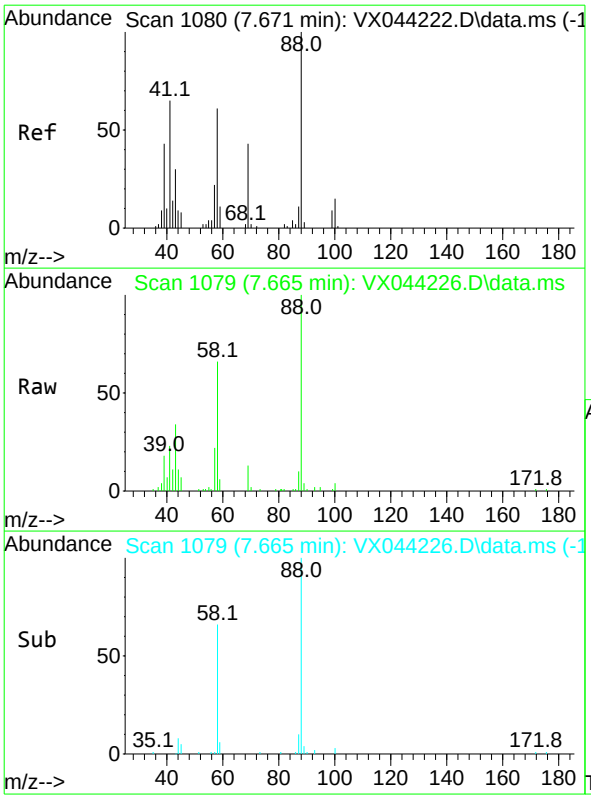


#48
Methyl methacrylate
Concen: 50.852 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 101318

Ion	Ratio	Lower	Upper
41	100		
69	79.9	62.4	93.6
39	66.0	53.3	79.9

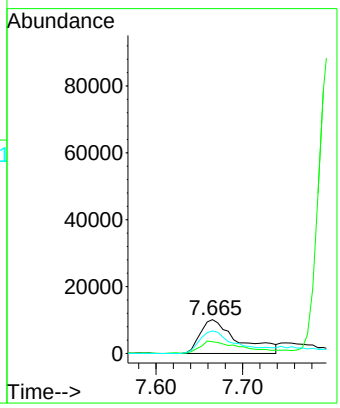




#49
1,4-Dioxane
Concen: 923.966 ug/l m
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 88 Resp: 30522

Ion	Ratio	Lower	Upper
88	100		
43	44.4	27.1	40.7#
58	60.6	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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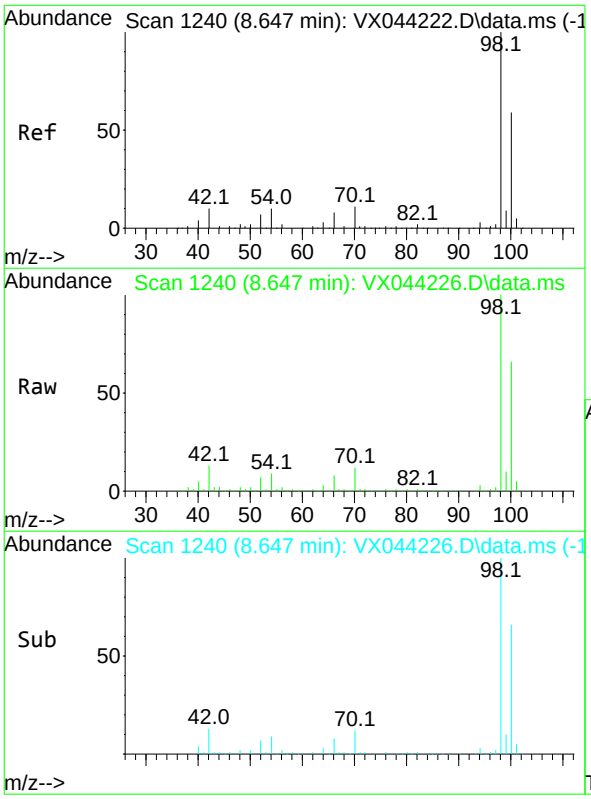
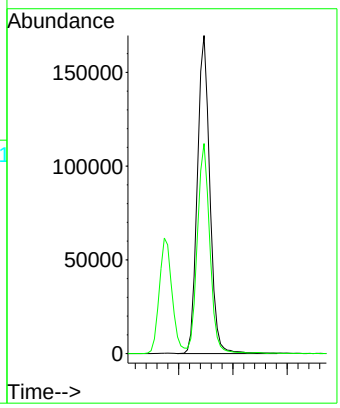
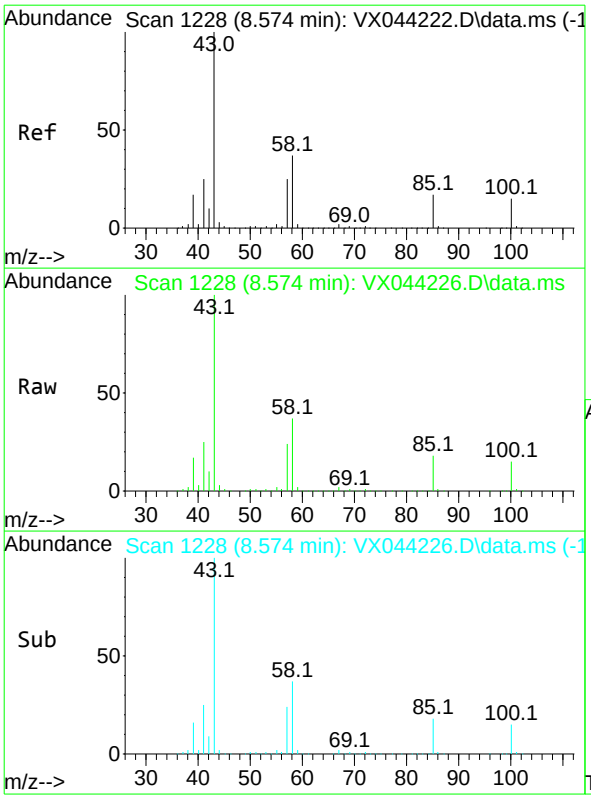


#50
Toluene-d8
Concen: 48.968 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 98 Resp: 271508

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.5	77.3

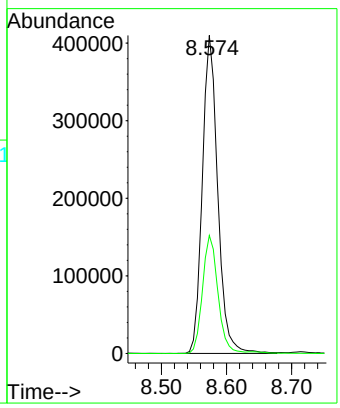




#51
4-Methyl-2-Pentanone
Concen: 255.038 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 673069

Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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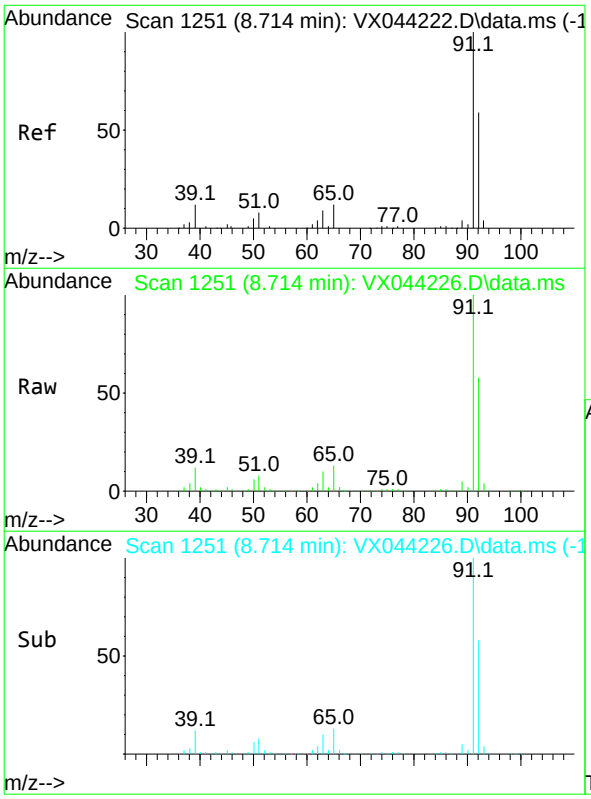
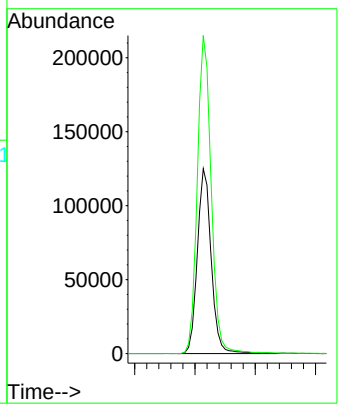
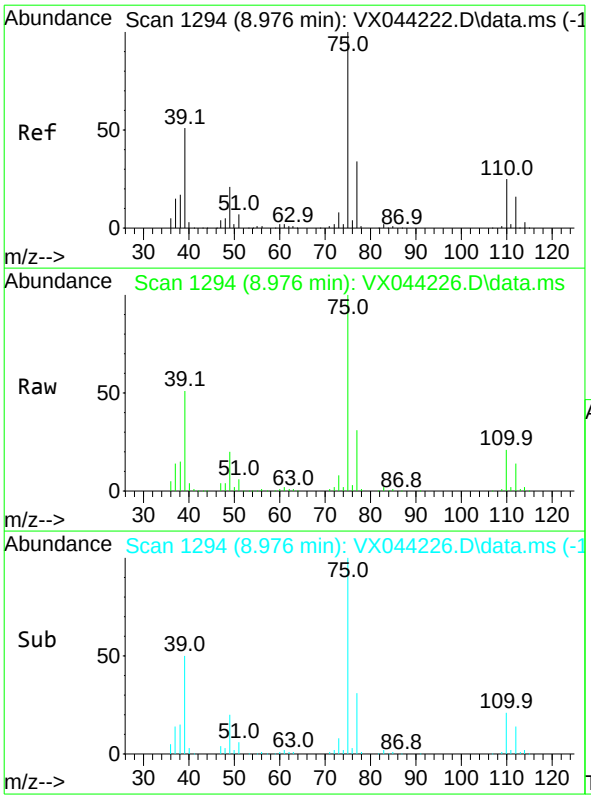


#52
Toluene
Concen: 49.199 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 92 Resp: 199281

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.0	205.6

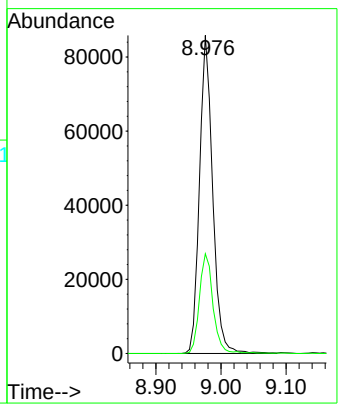




#53
t-1,3-Dichloropropene
Concen: 50.864 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 120696

Ion	Ratio	Lower	Upper
75	100		
77	31.4	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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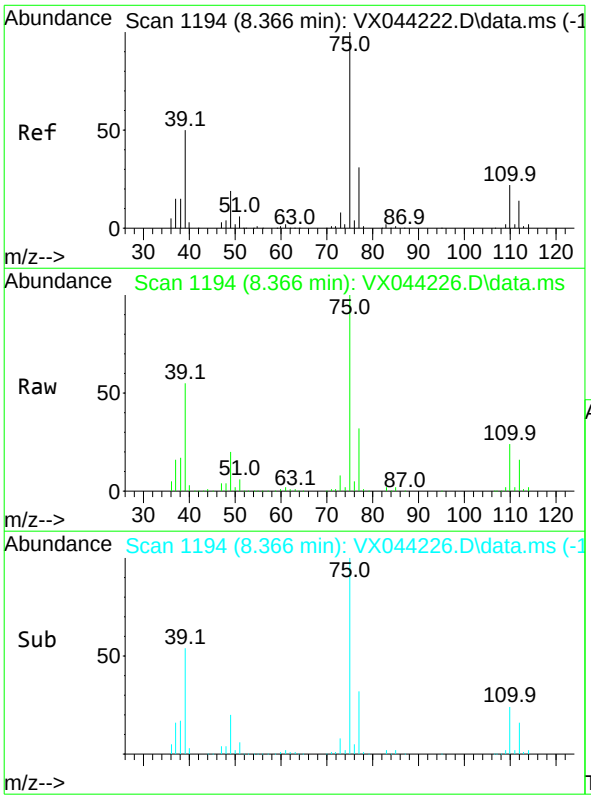
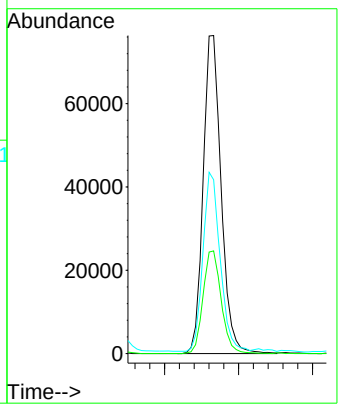
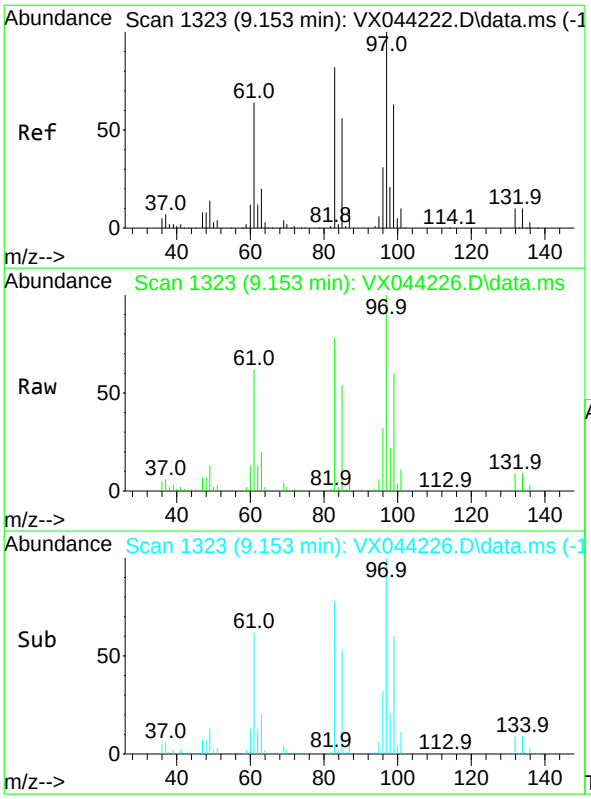


#54
cis-1,3-Dichloropropene
Concen: 53.607 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 128875

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	53.9	40.3	60.5

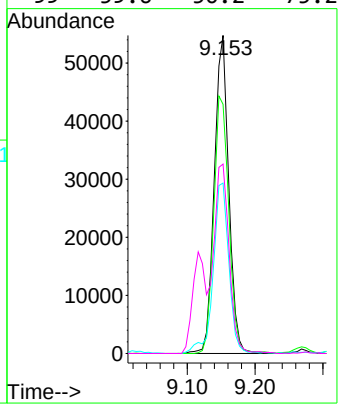




#55
1,1,2-Trichloroethane
Concen: 50.562 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 97 Resp: 81362

Ion	Ratio	Lower	Upper
97	100		
83	78.3	65.3	97.9
85	53.6	44.6	67.0
99	59.6	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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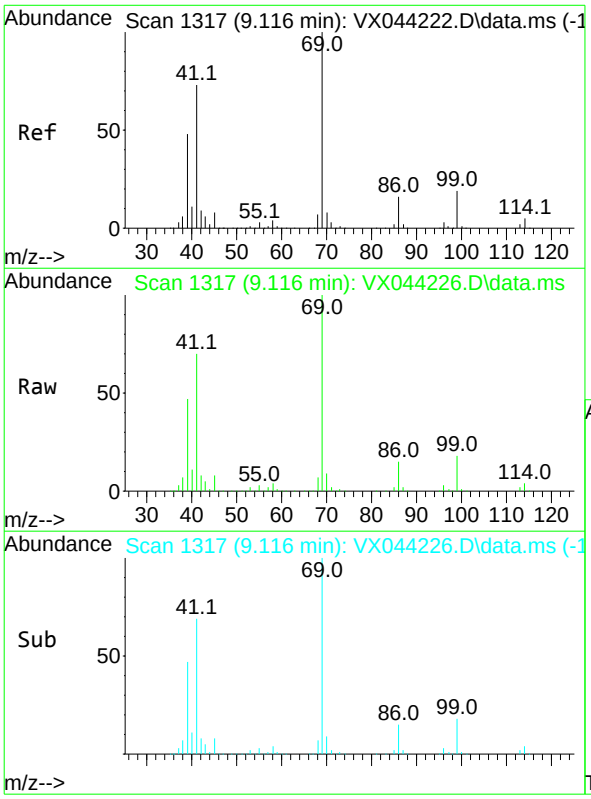
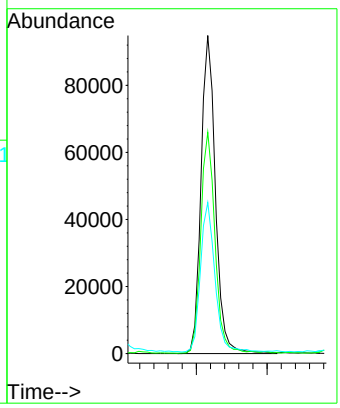
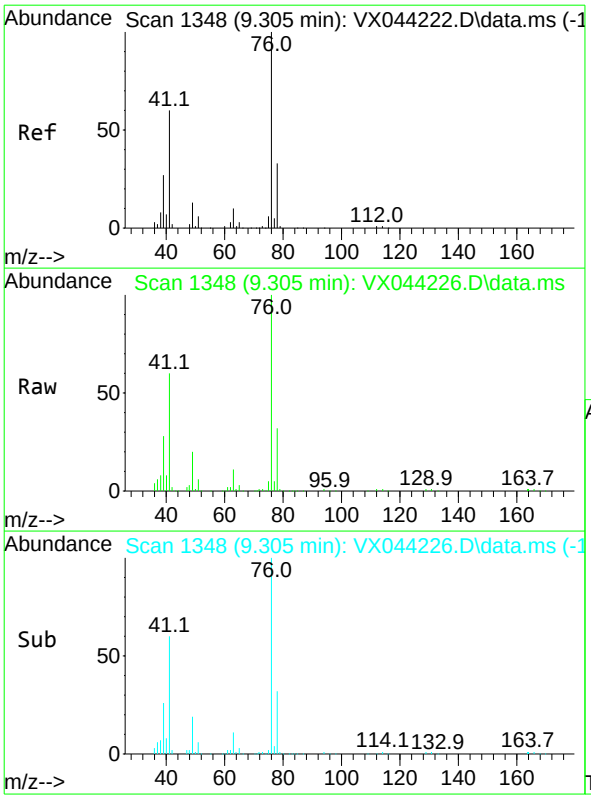


#56
Ethyl methacrylate
Concen: 52.890 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 69 Resp: 134357

Ion	Ratio	Lower	Upper
69	100		
41	68.6	56.6	85.0
39	47.2	37.4	56.0

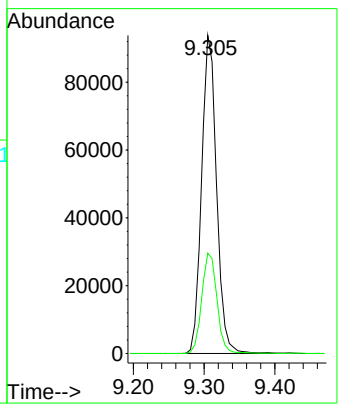




#57
1,3-Dichloropropane
Concen: 49.165 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 76 Resp: 137705

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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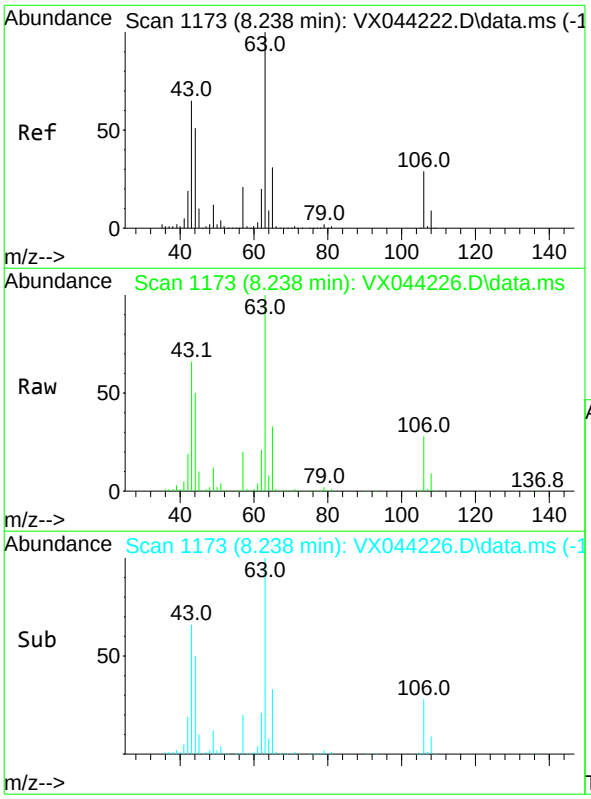
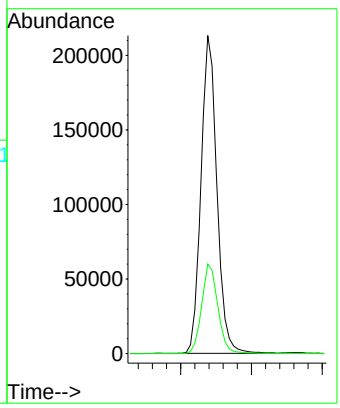
Supervised By :Mahesh Dadoda 12/12/2024

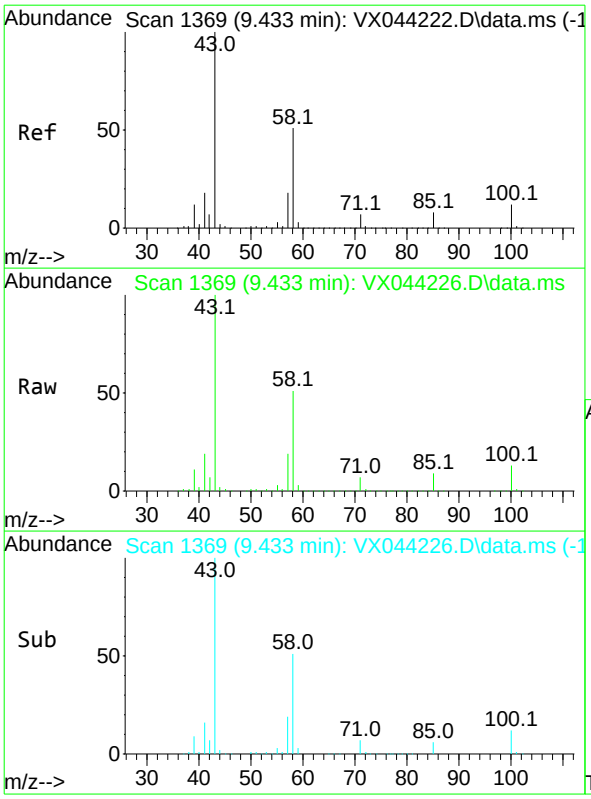


#58
2-Chloroethyl Vinyl ether
Concen: 259.586 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 332599

Ion	Ratio	Lower	Upper
63	100		
106	28.6	22.8	34.2

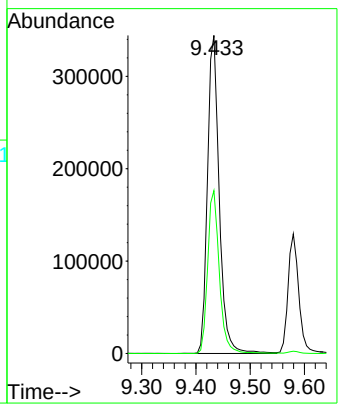




#59
2-Hexanone
Concen: 271.943 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 519476

Ion	Ratio	Lower	Upper
43	100		
58	50.7	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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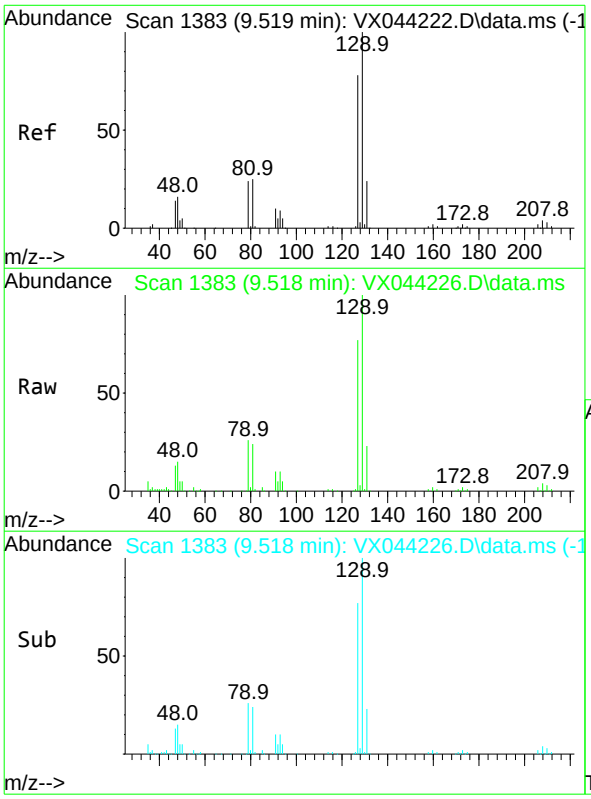
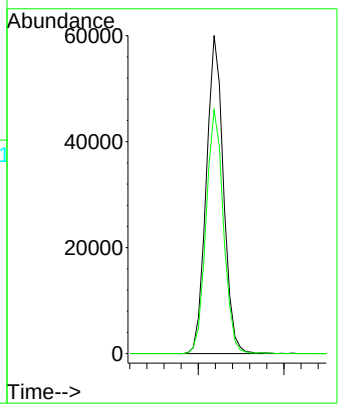
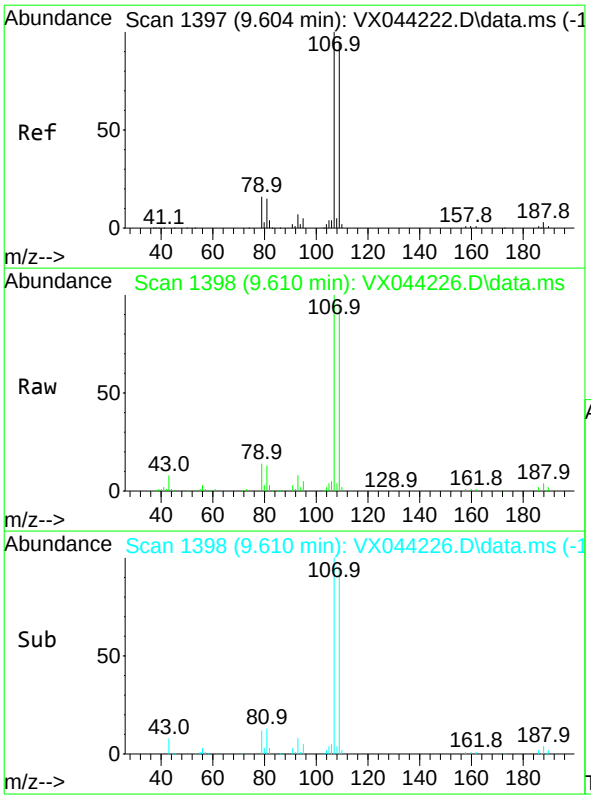


#60
Dibromochloromethane
Concen: 49.073 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:129 Resp: 83515

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.3

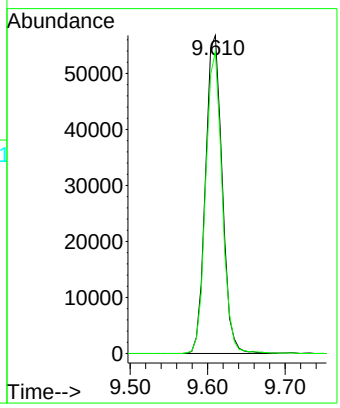




#61
1,2-Dibromoethane
Concen: 51.909 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:107 Resp: 85024

Ion	Ratio	Lower	Upper
107	100		
109	93.7	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
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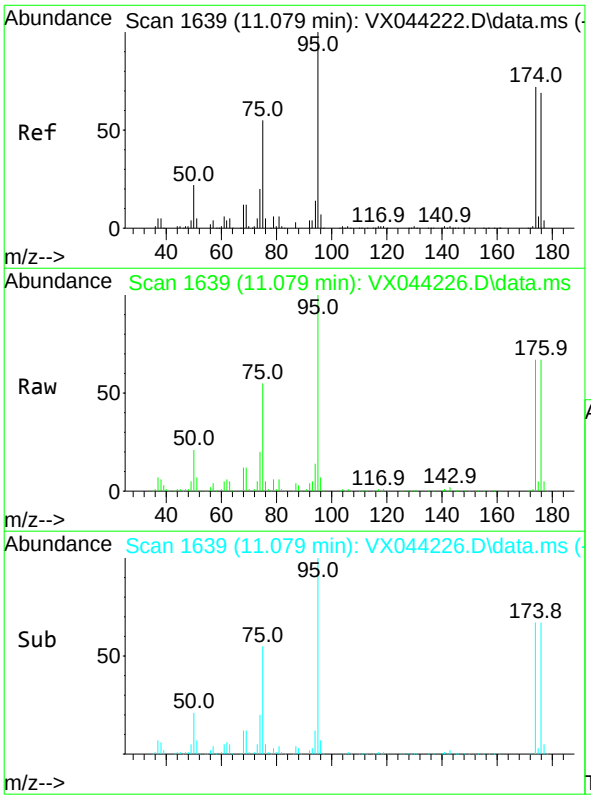
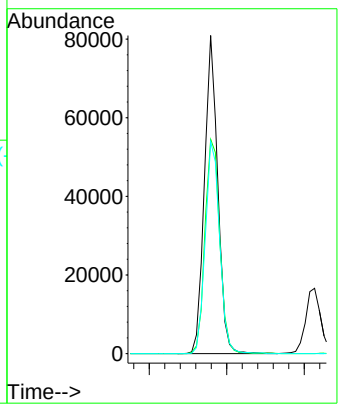
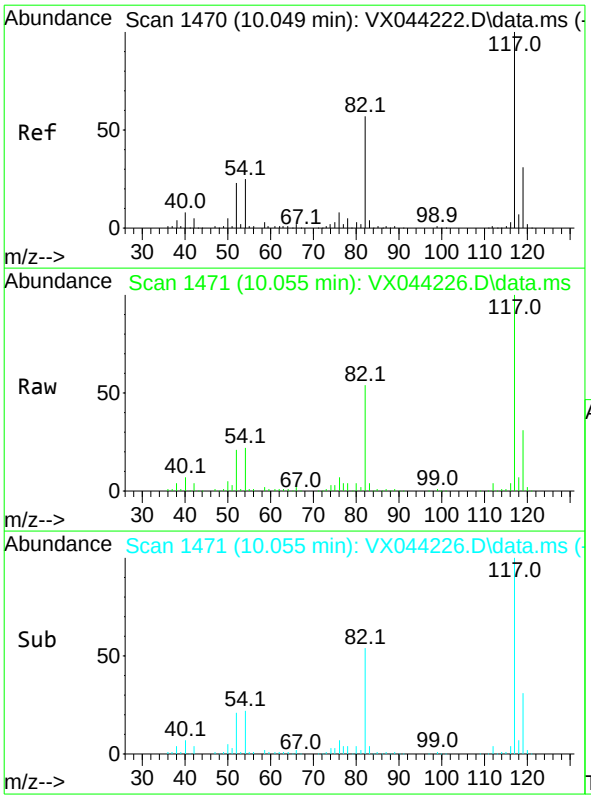


#62
4-Bromofluorobenzene
Concen: 50.098 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 95 Resp: 97061

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	145.8
176	71.4	0.0	137.8

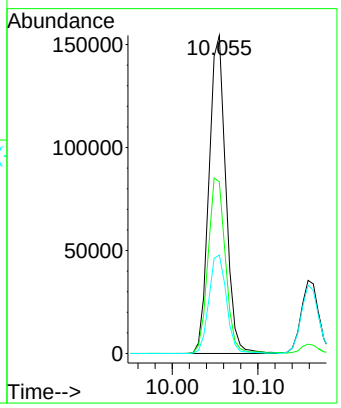




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 210572

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.8	68.8
119	31.0	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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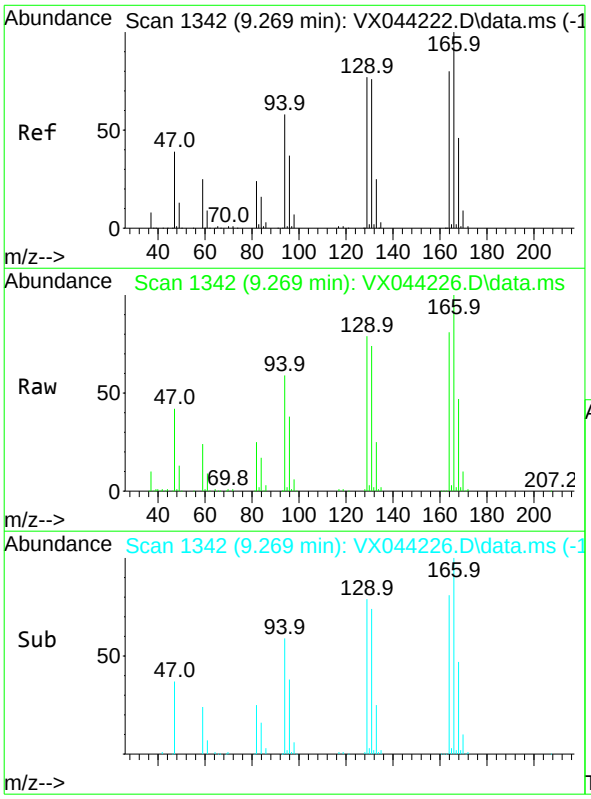
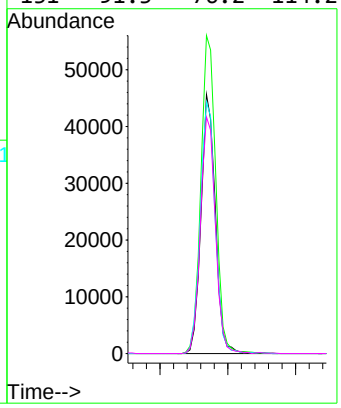
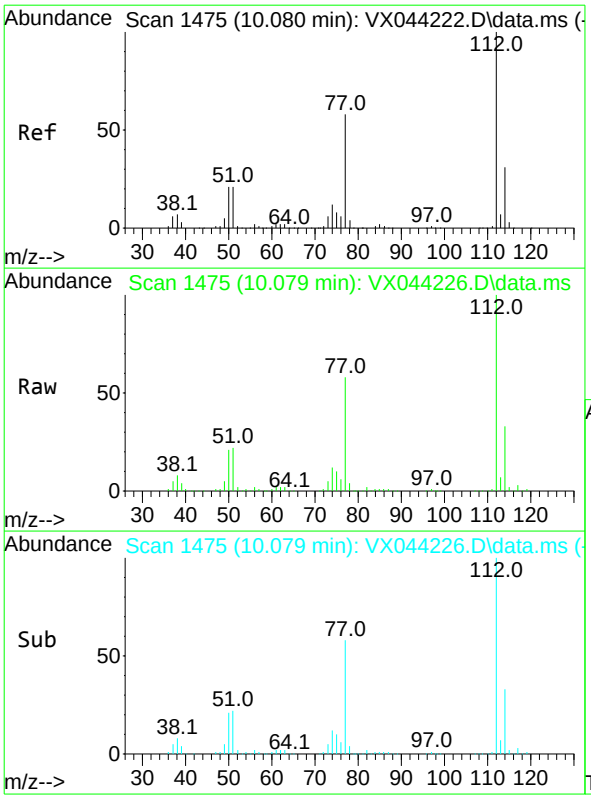


#64
Tetrachloroethene
Concen: 47.702 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:164 Resp: 66669

Ion	Ratio	Lower	Upper
164	100		
166	122.8	100.4	150.6
129	97.2	77.2	115.8
131	91.3	76.2	114.2

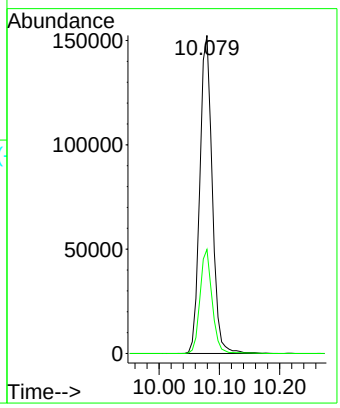




#65
Chlorobenzene
Concen: 48.133 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:112 Resp: 217180

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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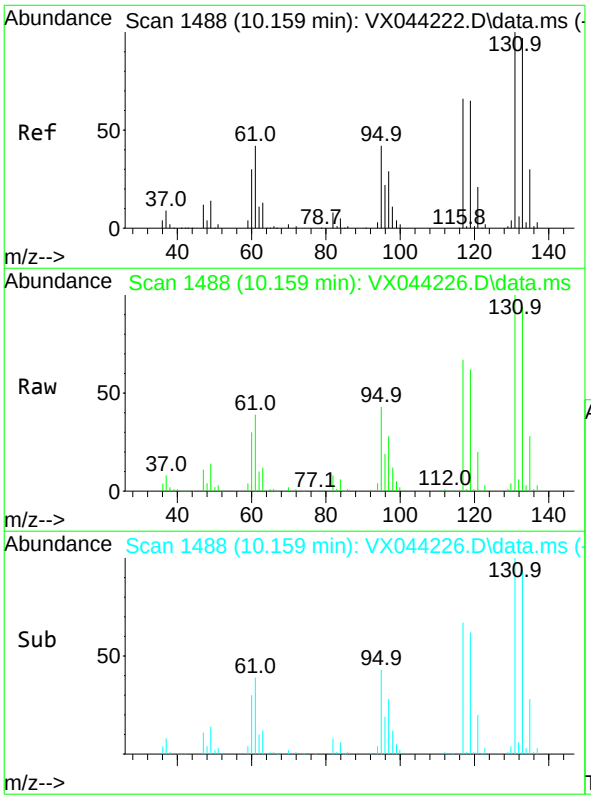
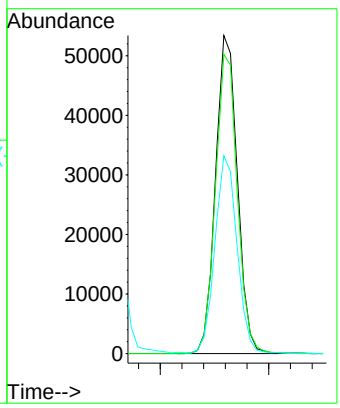
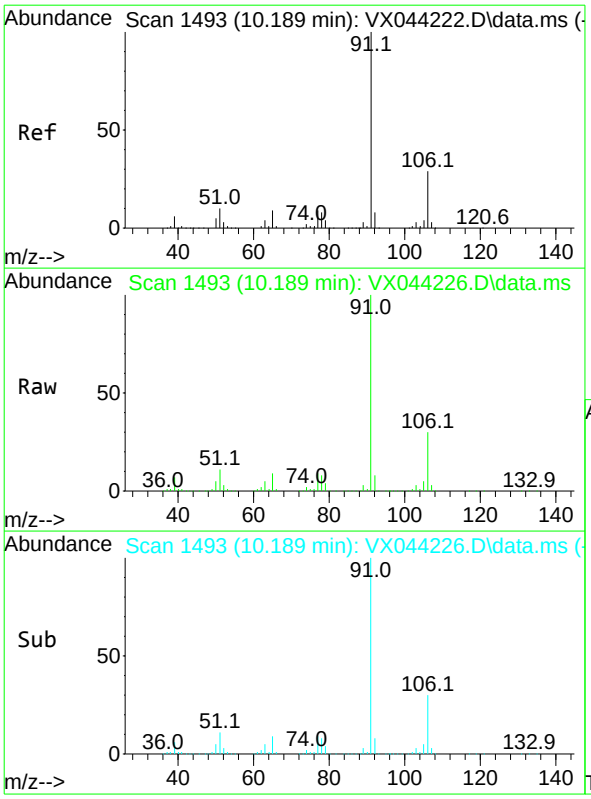


#66
1,1,1,2-Tetrachloroethane
Concen: 51.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:131 Resp: 74531

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.8
119	63.3	31.6	95.0

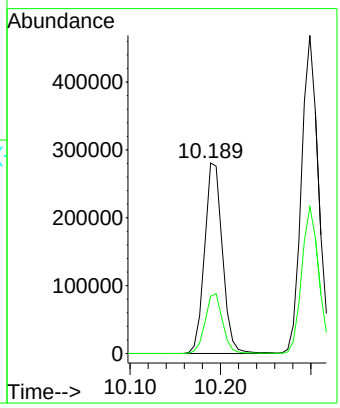




#67
Ethyl Benzene
Concen: 49.461 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 385605

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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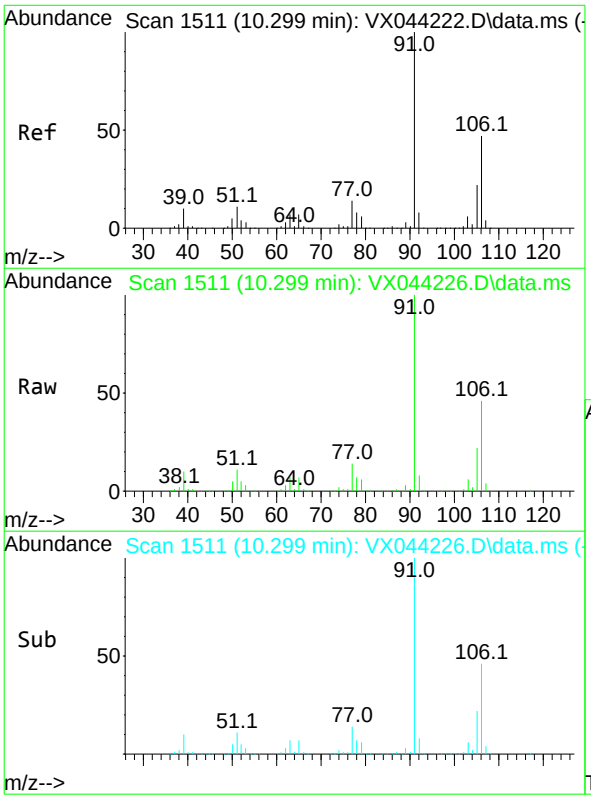
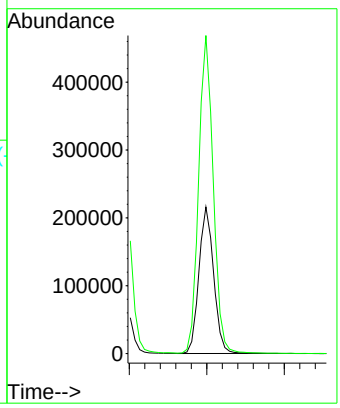
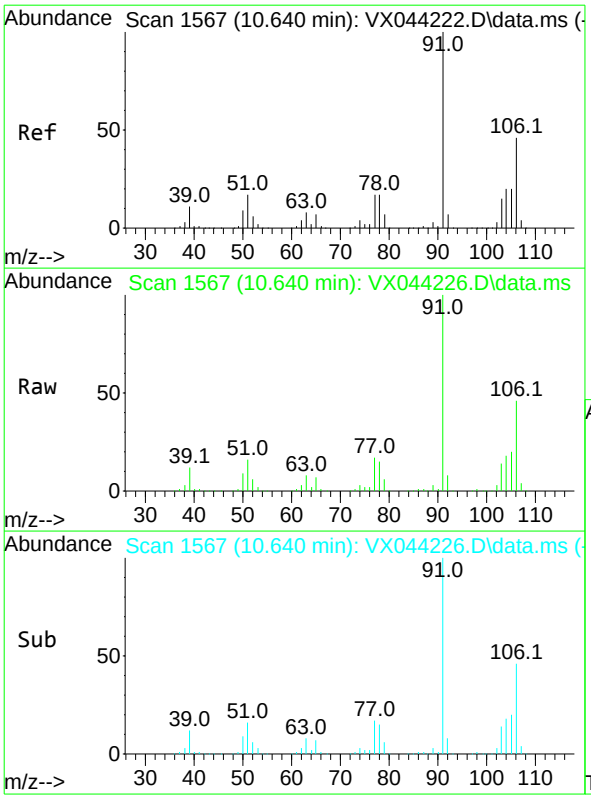


#68
m/p-Xylenes
Concen: 99.896 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:106 Resp: 285774

Ion	Ratio	Lower	Upper
106	100		
91	214.6	170.2	255.2

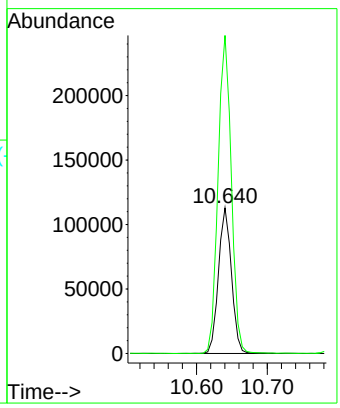




#69
o-Xylene
Concen: 49.750 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:106 Resp: 144001

Ion	Ratio	Lower	Upper
106	100		
91	221.9	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
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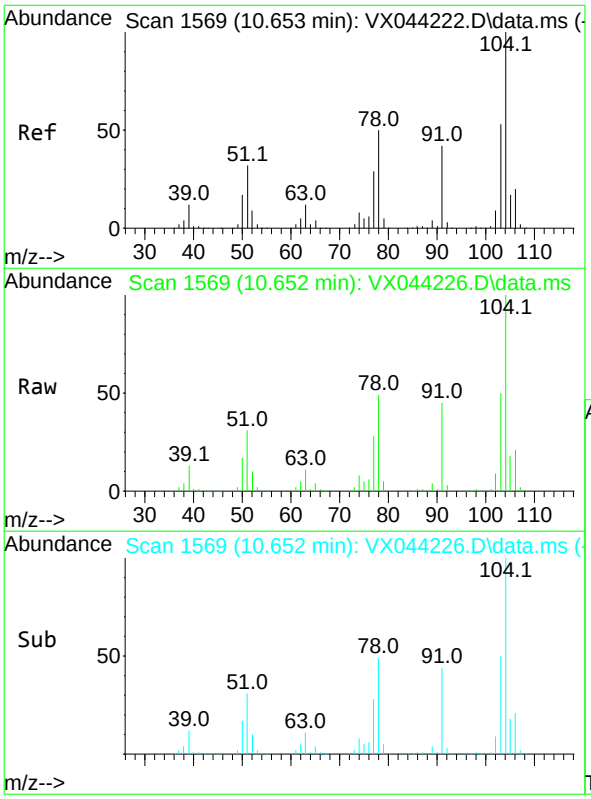
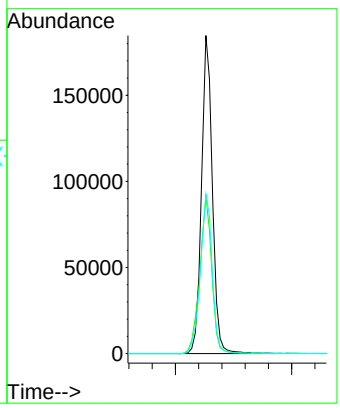
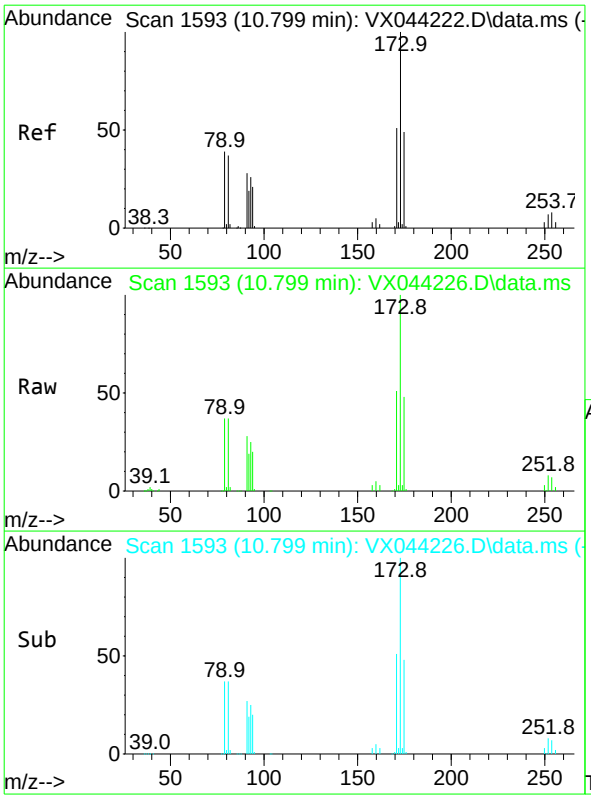


#70
Styrene
Concen: 51.617 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:104 Resp: 239508

Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.6	67.0
103	54.9	45.4	68.0





#71
Bromoform
Concen: 50.269 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:173 Resp: 50972

Ion	Ratio	Lower	Upper
173	100		
175	47.1	23.8	71.4
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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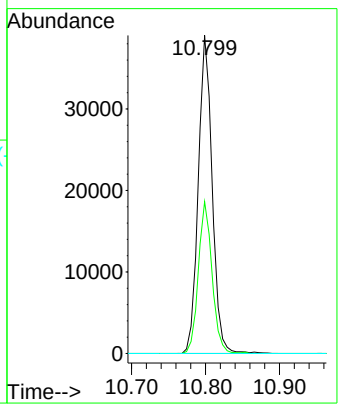
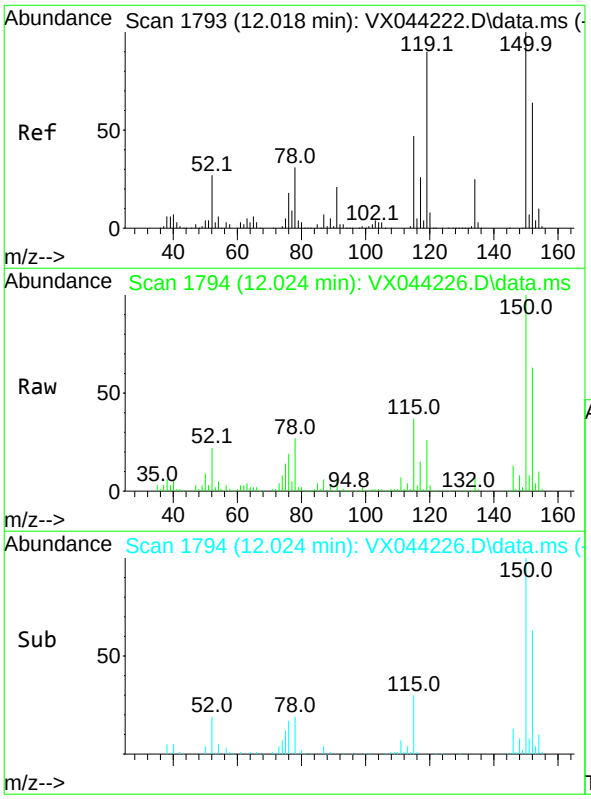
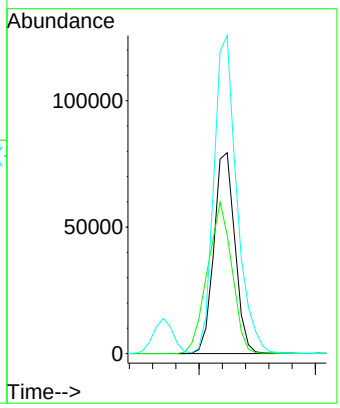


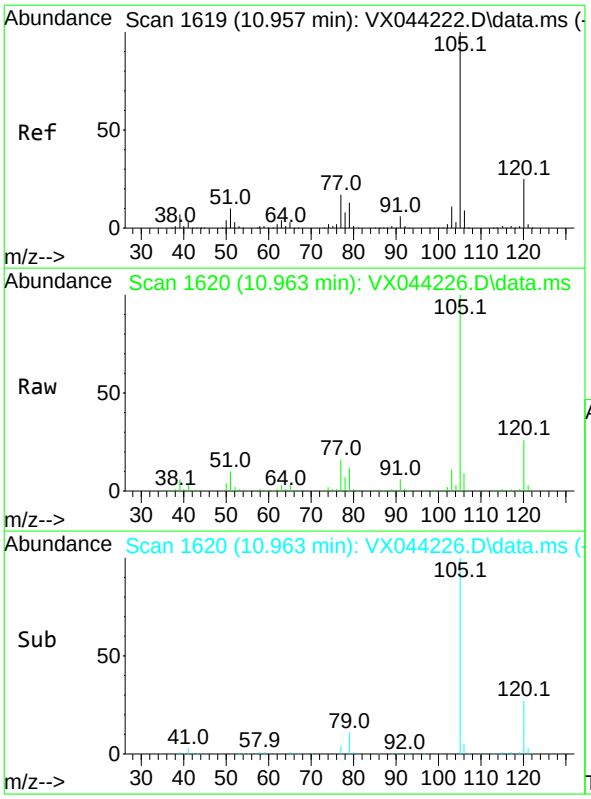


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:152 Resp: 99879

Ion	Ratio	Lower	Upper
152	100		
115	87.8	44.5	133.3
150	172.2	0.0	353.8

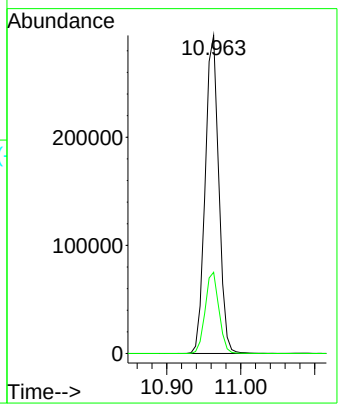




#73
Isopropylbenzene
Concen: 49.014 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 374769

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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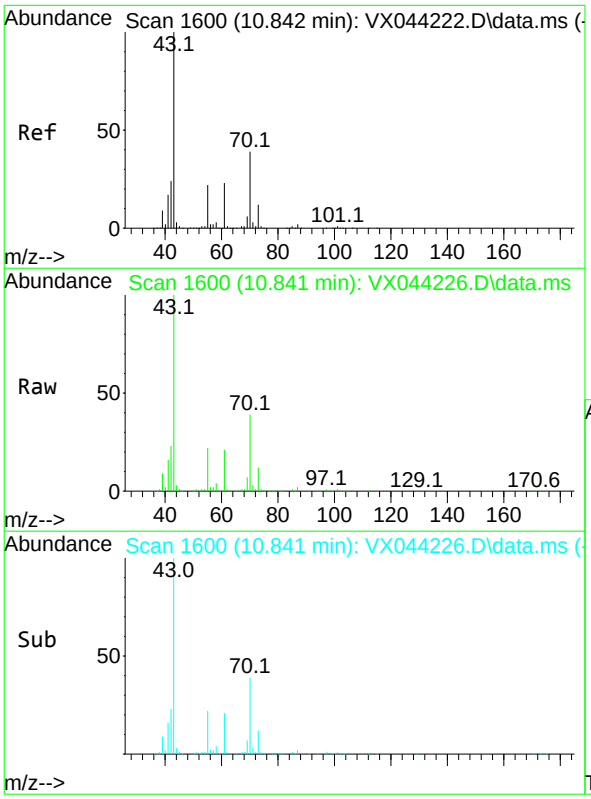
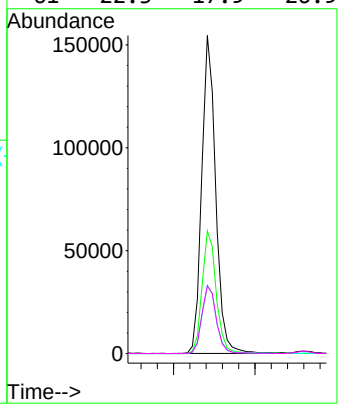
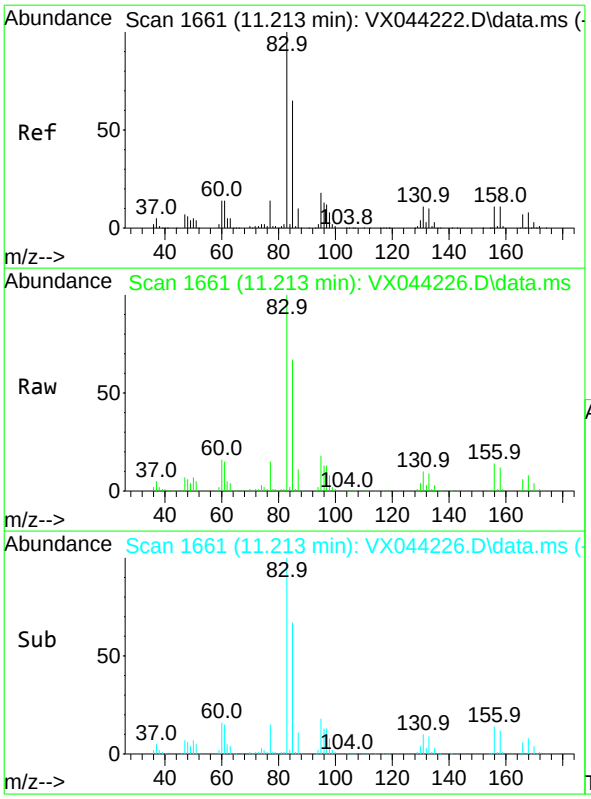


#74
N-amyl acetate
Concen: 52.003 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 183763

Ion	Ratio	Lower	Upper
43	100		
70	39.0	31.9	47.9
55	22.4	17.9	26.9
61	22.3	17.9	26.9

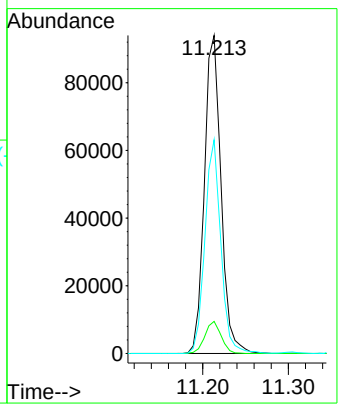




#75
1,1,2,2-Tetrachloroethane
Concen: 47.676 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 126615

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.4	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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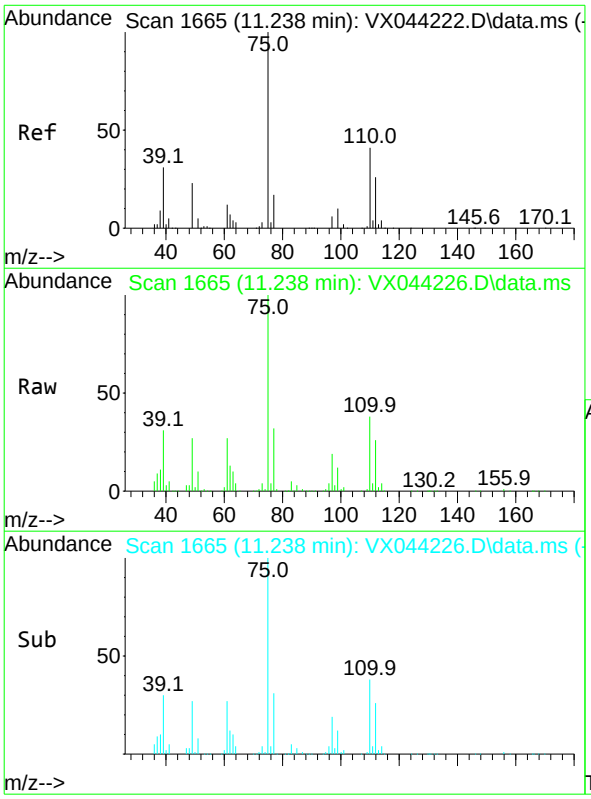
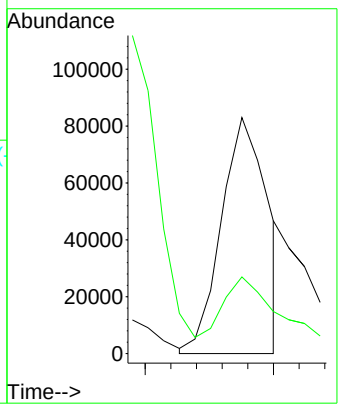
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

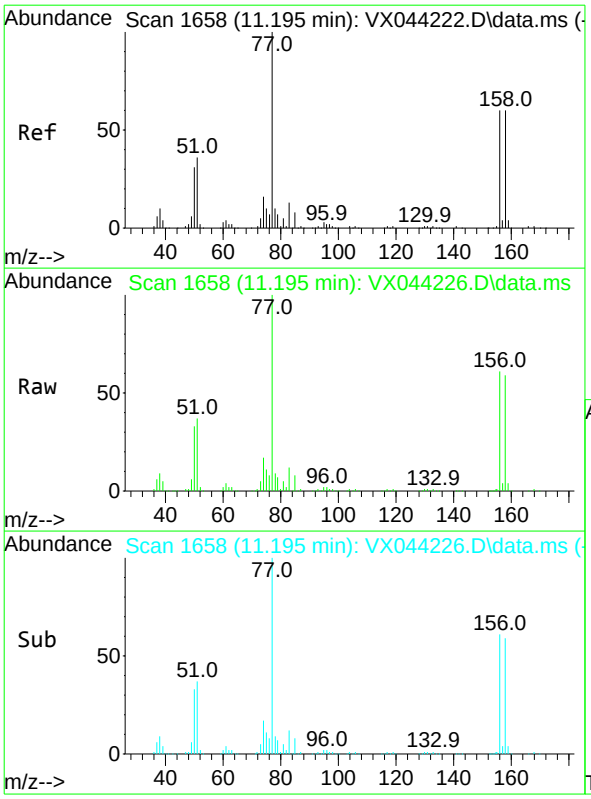


#76
1,2,3-Trichloropropane
Concen: 46.544 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 103796

Ion	Ratio	Lower	Upper
75	100		
77	43.4	20.9	62.7

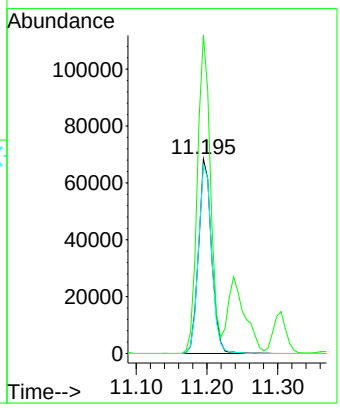




#77
Bromobenzene
Concen: 47.335 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:156 Resp: 87767

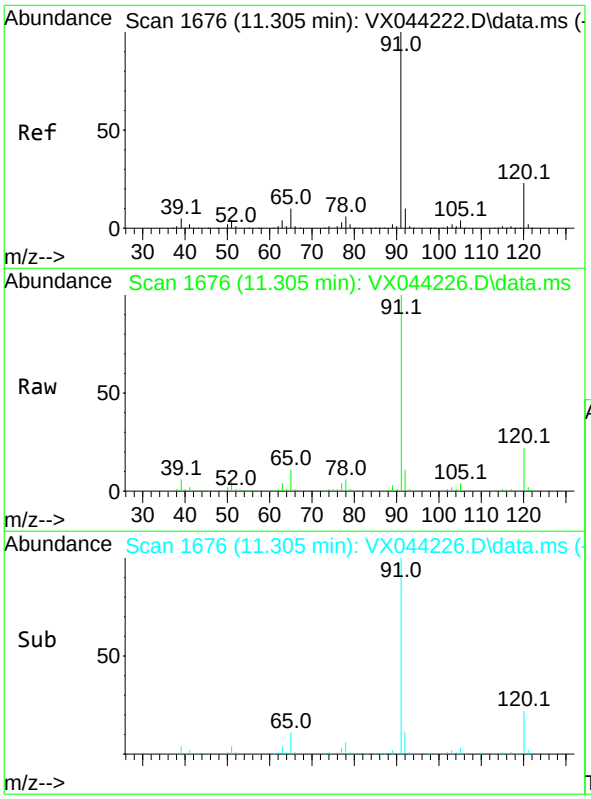
Ion	Ratio	Lower	Upper
156	100		
77	163.4	82.6	247.8
158	98.0	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

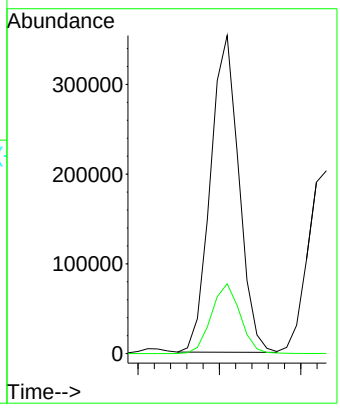
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024

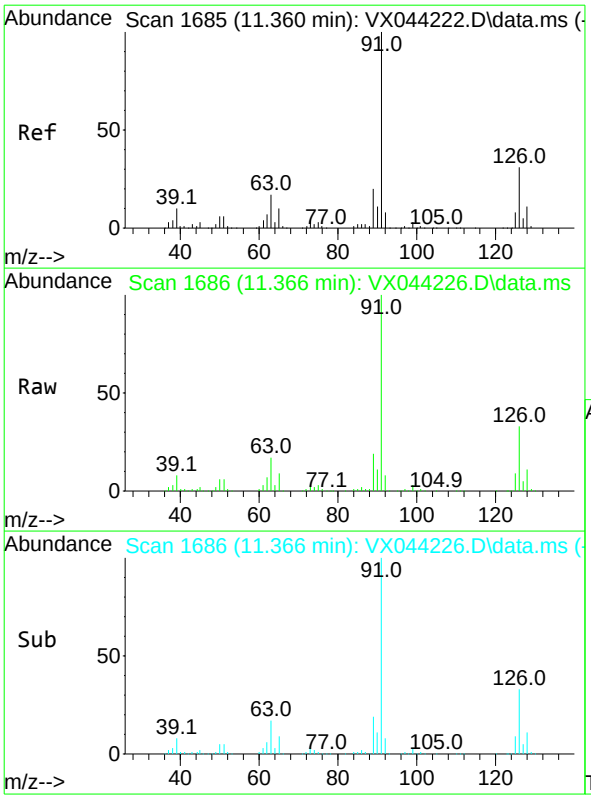


#78
n-propylbenzene
Concen: 50.816 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 429443

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0

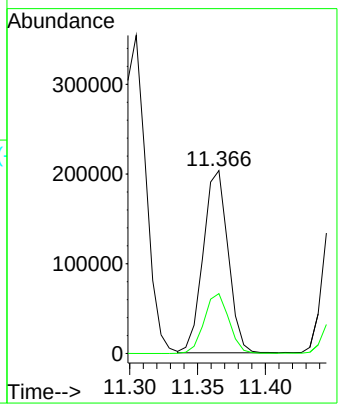




#79
2-Chlorotoluene
Concen: 47.546 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 259860

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.1



Instrument :
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ClientSampleId :
ICVVX121124

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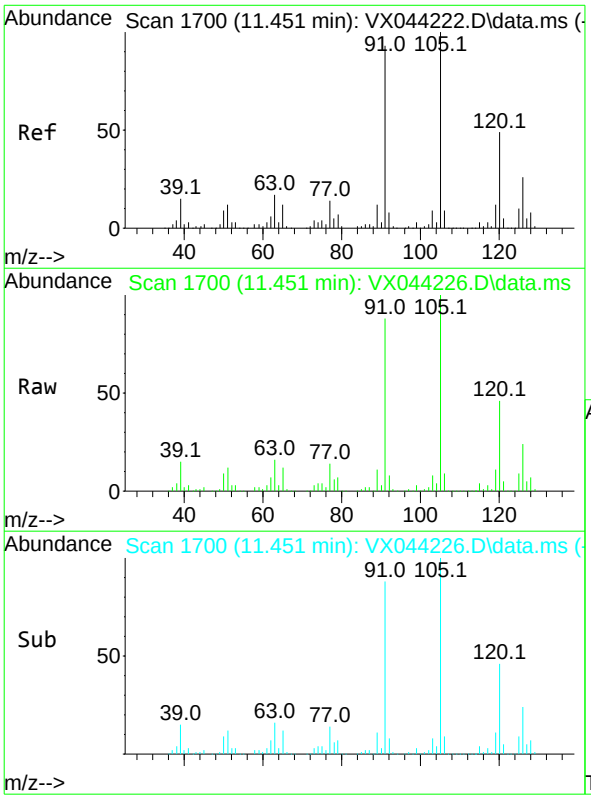
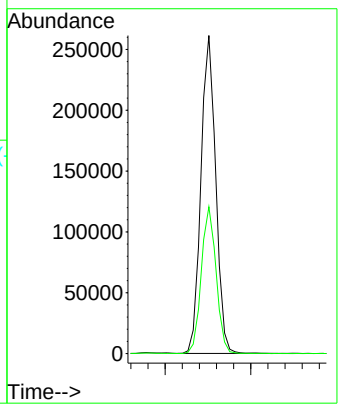
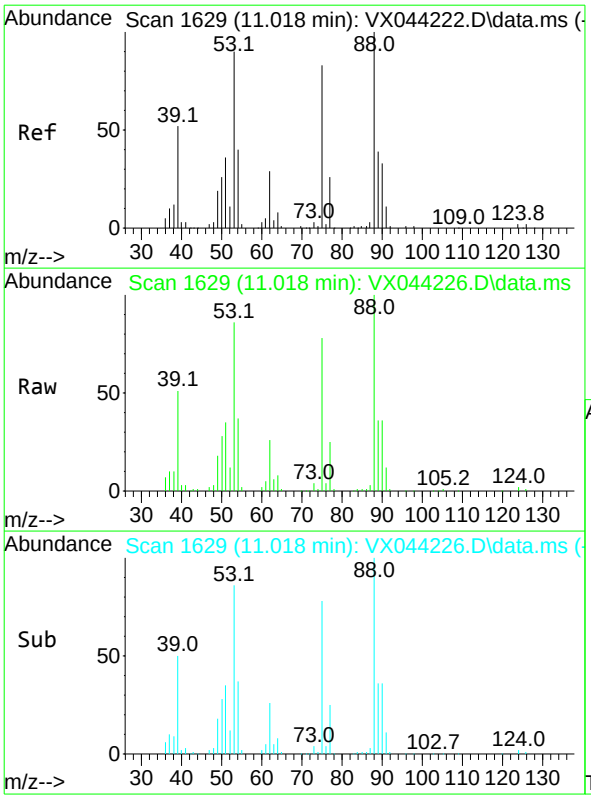


#80
1,3,5-Trimethylbenzene
Concen: 49.431 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 313435

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.4

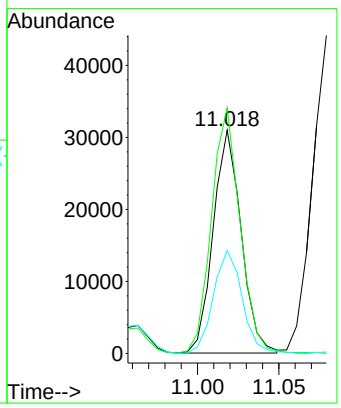




#81
trans-1,4-Dichloro-2-butene
Concen: 47.861 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 37038

Ion	Ratio	Lower	Upper
75	100		
53	112.6	93.6	140.4
89	47.5	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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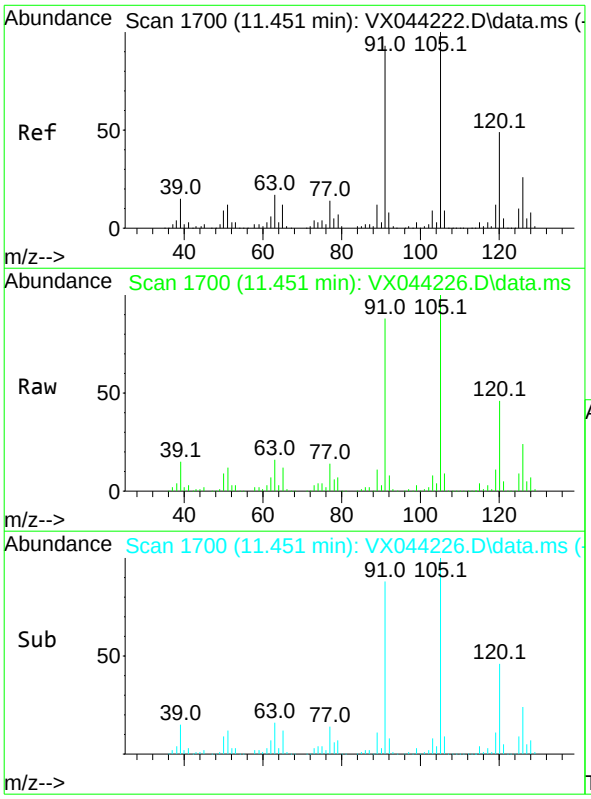
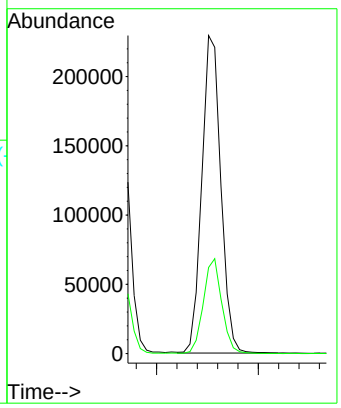
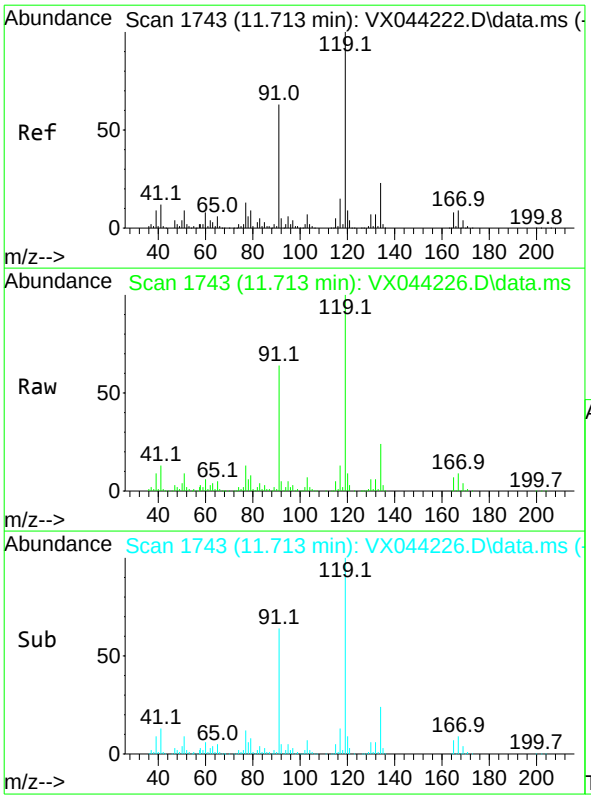


#82
4-Chlorotoluene
Concen: 49.178 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 297641

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.5

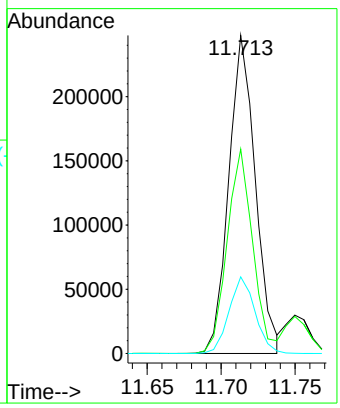




#83
tert-Butylbenzene
Concen: 49.384 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:119 Resp: 309463

Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.9	92.5
134	23.6	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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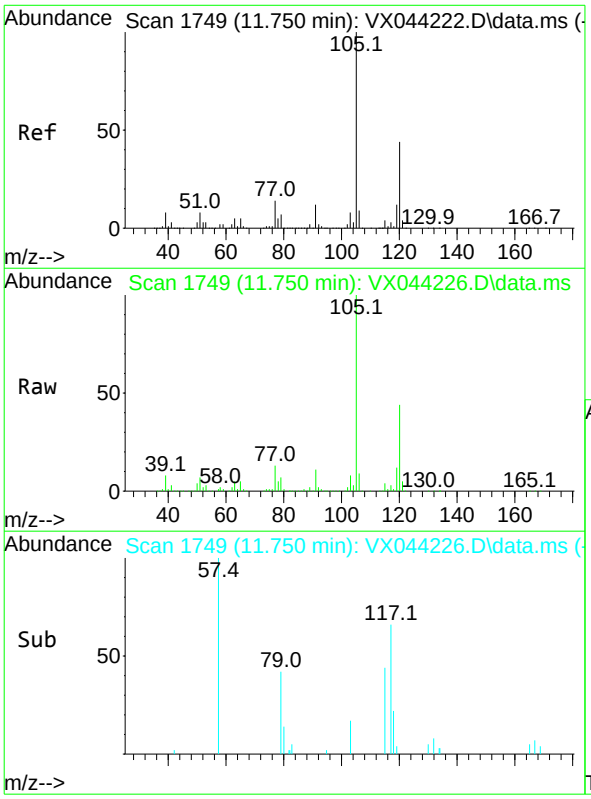
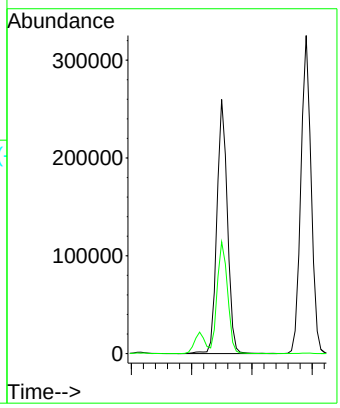
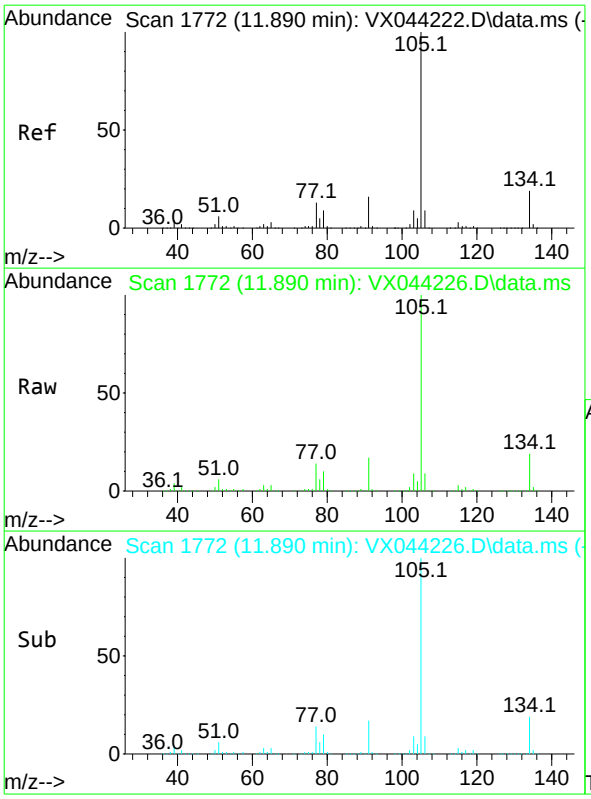


#84
1,2,4-Trimethylbenzene
Concen: 50.333 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 313433

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1

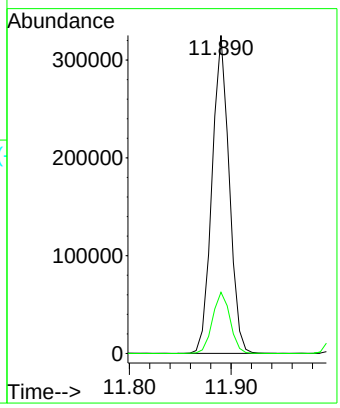




#85
sec-Butylbenzene
Concen: 50.097 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 381109

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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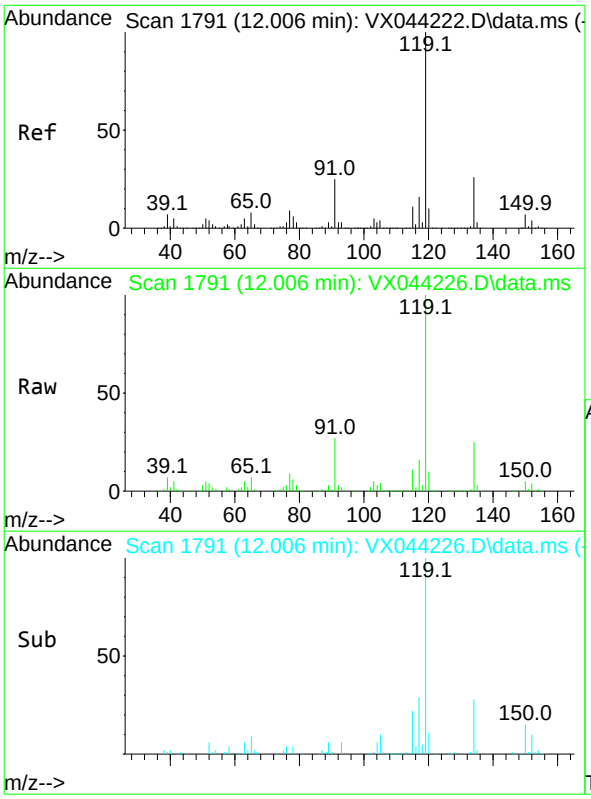
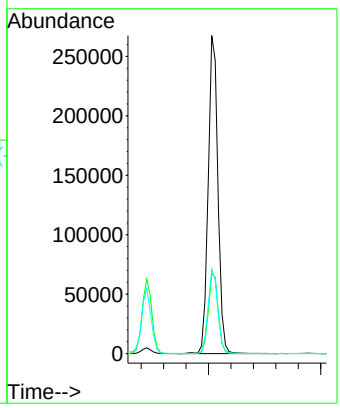
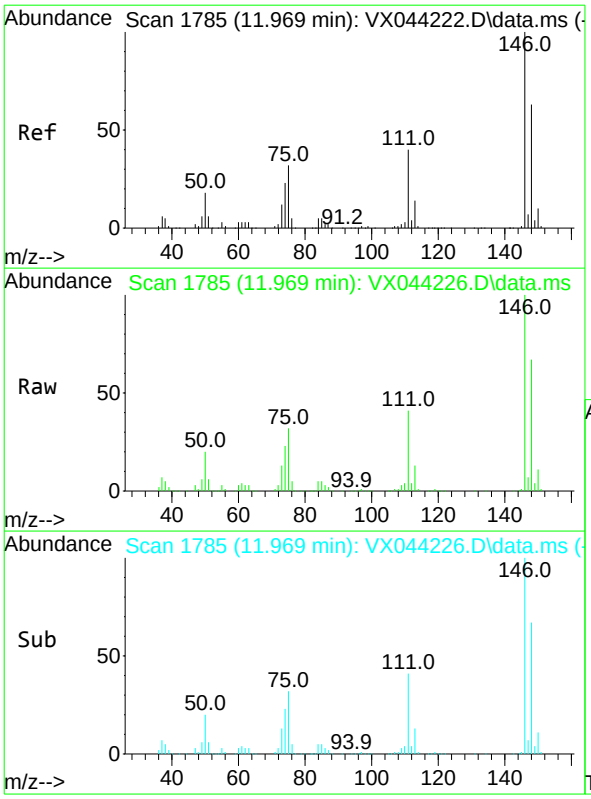


#86
p-Isopropyltoluene
Concen: 50.678 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:119 Resp: 320882

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	26.3	13.0	39.0

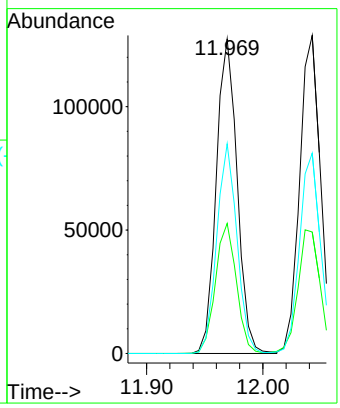




#87
1,3-Dichlorobenzene
Concen: 49.122 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:146 Resp: 159094

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.2
148	64.7	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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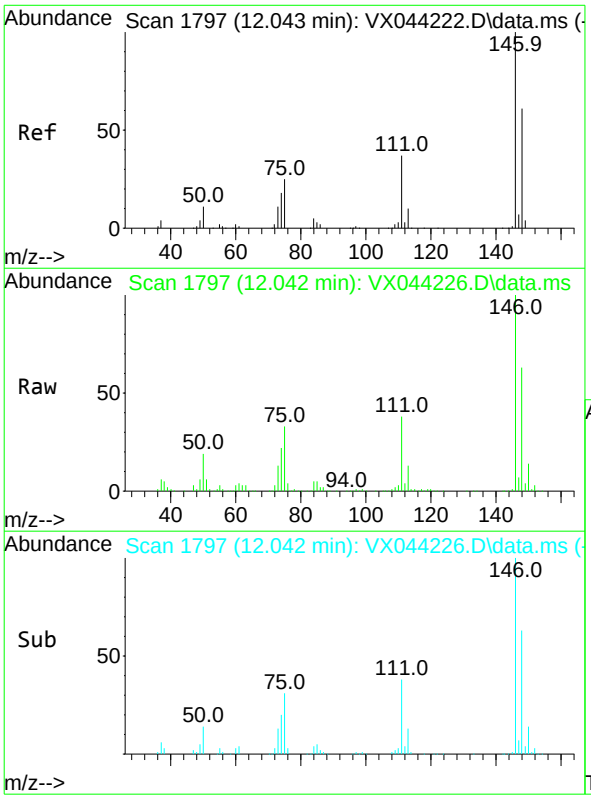
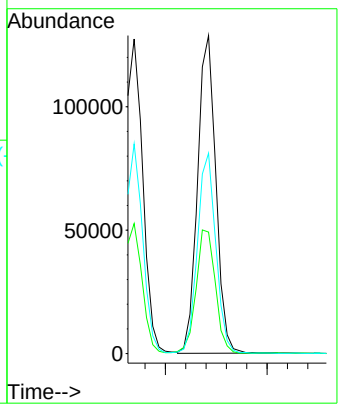
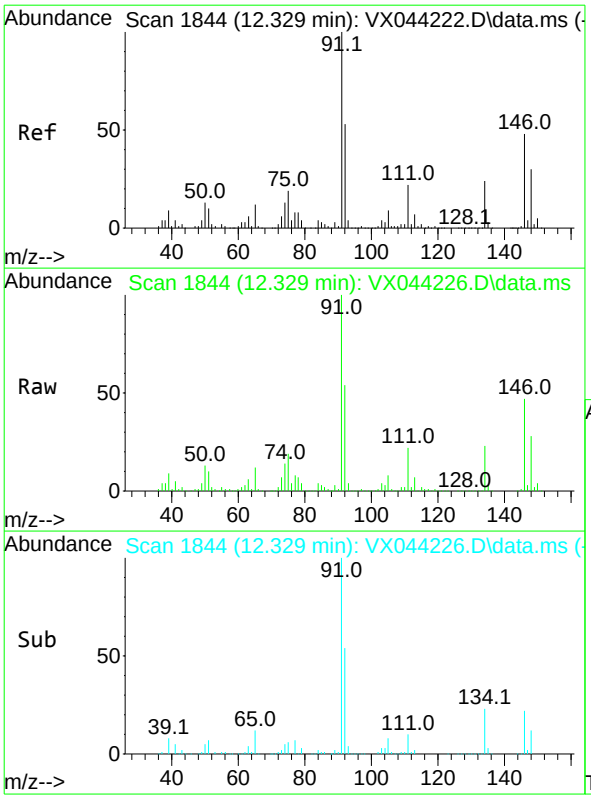


#88
1,4-Dichlorobenzene
Concen: 48.280 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:146 Resp: 160742

Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.0	63.0
148	63.6	32.3	96.8

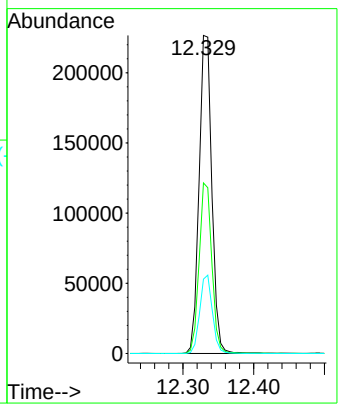




#89
n-Butylbenzene
Concen: 53.207 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 283284

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	79.7
134	24.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
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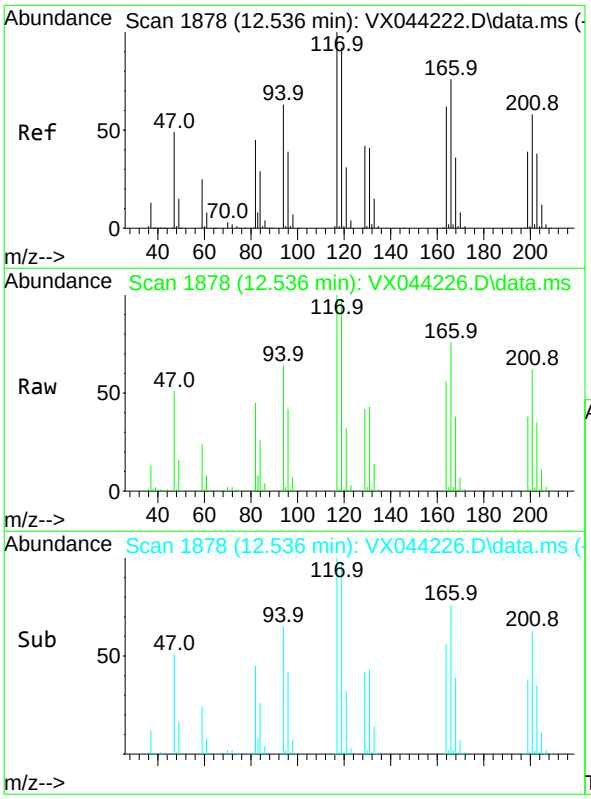
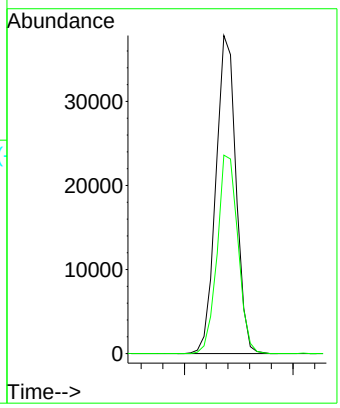
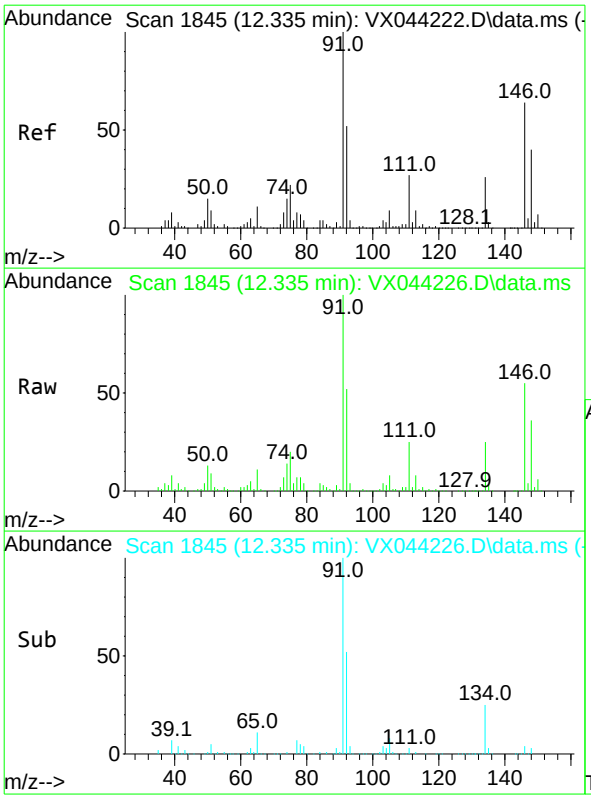


#90
Hexachloroethane
Concen: 52.727 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 48734

Ion	Ratio	Lower	Upper
117	100		
201	64.3	31.4	94.2

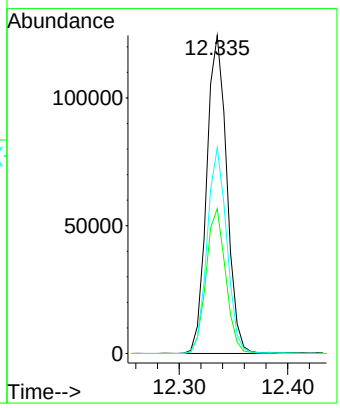




#91
1,2-Dichlorobenzene
Concen: 47.589 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:146 Resp: 160039

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.4	64.3
148	63.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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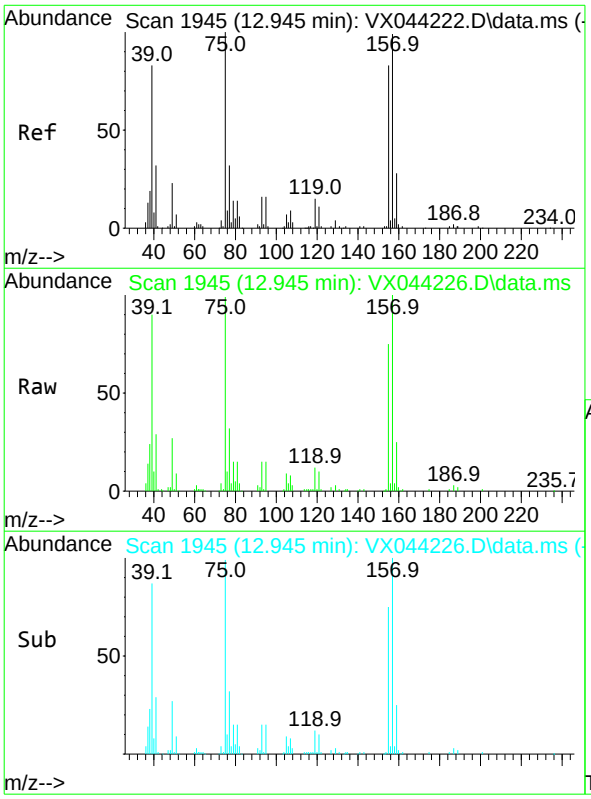
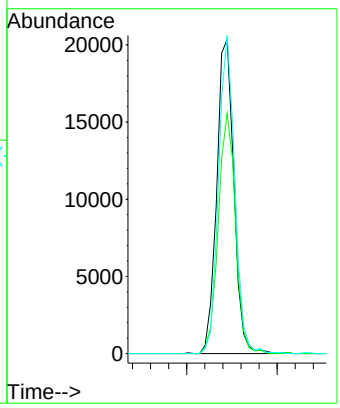
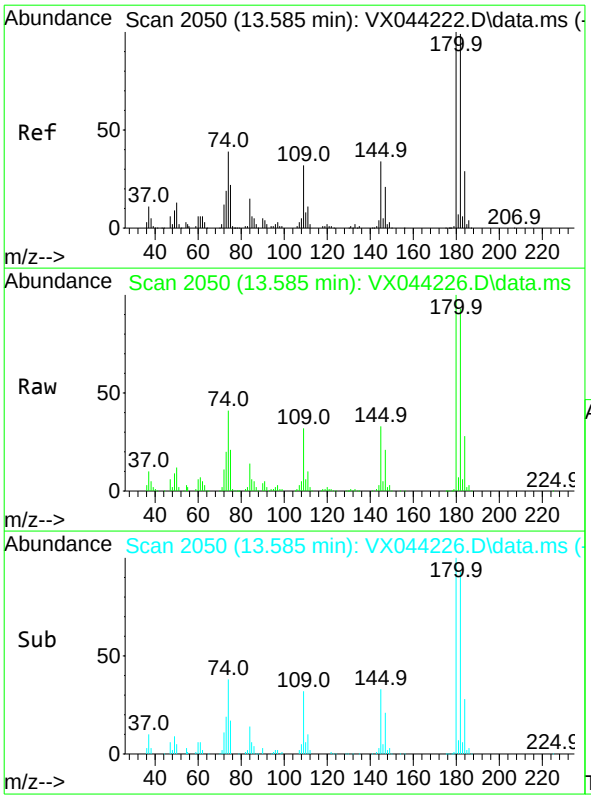


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.864 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 26738

Ion	Ratio	Lower	Upper
75	100		
155	76.5	38.1	114.3
157	96.3	47.2	141.6

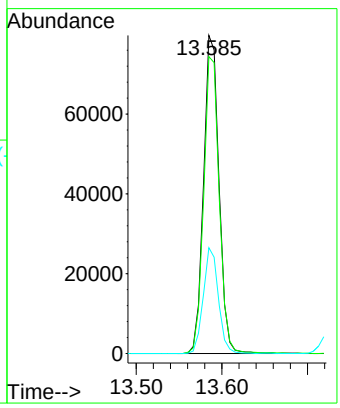




#93
1,2,4-Trichlorobenzene
Concen: 53.940 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:180 Resp: 99449

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.2
145	32.6	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

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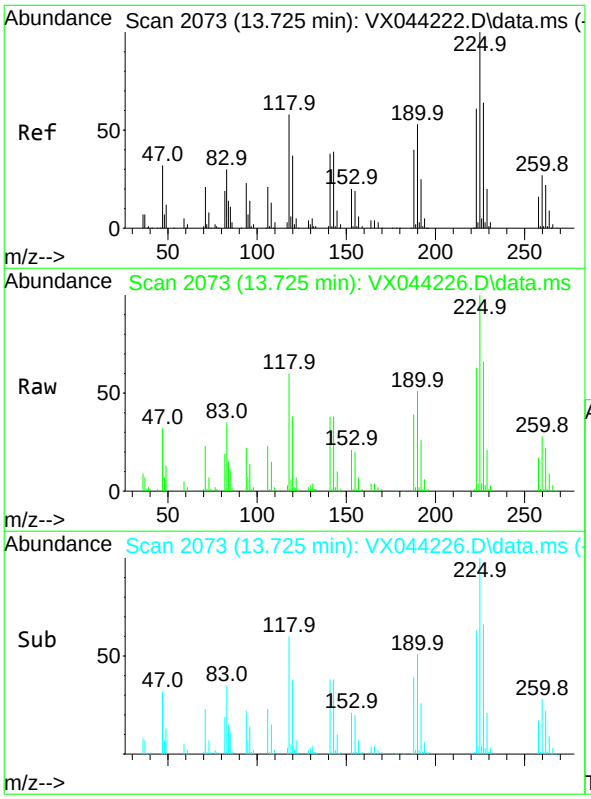
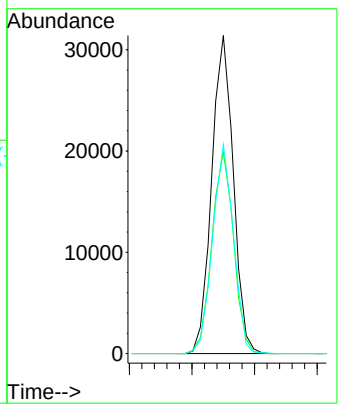
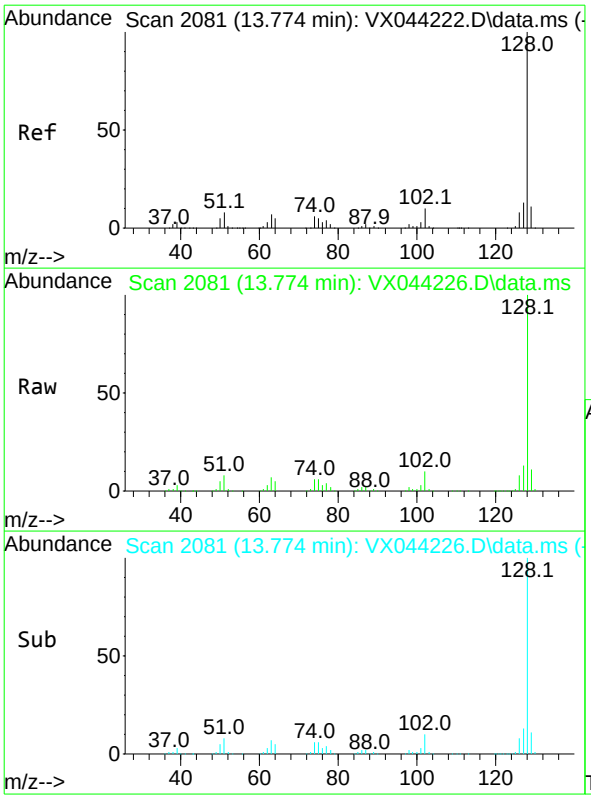


#94
Hexachlorobutadiene
Concen: 50.770 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:225 Resp: 37651

Ion	Ratio	Lower	Upper
225	100		
223	63.9	30.8	92.4
227	63.7	32.1	96.3

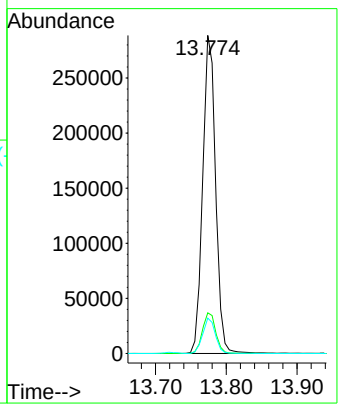




#95
Naphthalene
Concen: 50.827 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:128 Resp: 365781

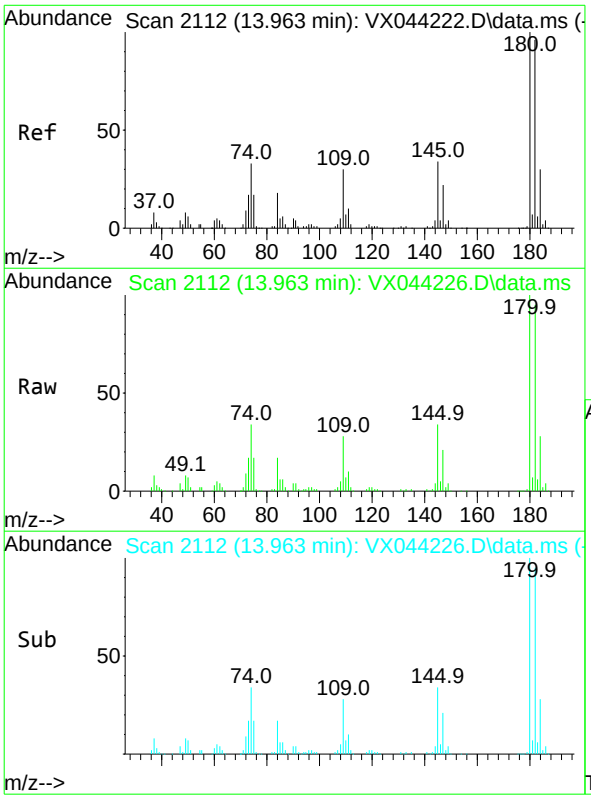
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.9	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Manual Integrations APPROVED

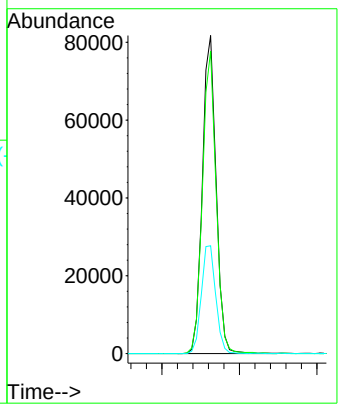
Reviewed By :John Carlone 12/12/2024
Supervised By :Mahesh Dadoda 12/12/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.244 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:180 Resp: 100209

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.0	144.0
145	35.7	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	107	0.00
2	T	Dichlorodifluoromethane	0.773	0.779	-0.8	106	0.00
3	P	Chloromethane	0.739	0.690	6.6	98	0.00
4	C	Vinyl Chloride	0.770	0.728	5.5#	99	0.00
5	T	Bromomethane	0.546	0.502	8.1	97	0.00
6	T	Chloroethane	0.480	0.468	2.5	94	0.00
7	T	Trichlorofluoromethane	1.508	1.517	-0.6	105	0.00
8	T	Diethyl Ether	0.515	0.470	8.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.615	-0.8	107	0.00
10	T	Methyl Iodide	0.804	0.745	7.3	94	0.00
11	T	Tert butyl alcohol	0.124	0.115	7.3	102	0.00
12	CM	1,1-Dichloroethene	0.560	0.553	1.3#	99	0.00
13	T	Acrolein	0.179	0.167	6.7	96	0.00
14	T	Allyl chloride	0.933	0.929	0.4	98	0.00
15	T	Acrylonitrile	0.342	0.329	3.8	98	0.00
16	T	Acetone	0.357	0.388	-8.7	109	0.00
17	T	Carbon Disulfide	1.065	1.116	-4.8	104	0.00
18	T	Methyl Acetate	0.922	0.861	6.6	96	0.00
19	T	Methyl tert-butyl Ether	2.187	2.097	4.1	97	0.00
20	T	Methylene Chloride	0.671	0.620	7.6	96	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.577	3.2	100	0.00
22	T	Diisopropyl ether	2.102	1.973	6.1	97	0.00
23	T	Vinyl Acetate	1.709	1.767	-3.4	99	0.00
24	P	1,1-Dichloroethane	1.172	1.126	3.9	97	0.00
25	T	2-Butanone	0.508	0.516	-1.6	100	0.00
26	T	2,2-Dichloropropane	0.952	1.045	-9.8	107	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.707	6.5	98	0.00
28	T	Bromochloromethane	0.575	0.515	10.4	93	0.00
29	T	Tetrahydrofuran	0.326	0.311	4.6	98	0.00
30	C	Chloroform	1.316	1.217	7.5#	97	0.00
31	T	Cyclohexane	0.946	0.936	1.1	102	0.00
32	T	1,1,1-Trichloroethane	1.093	1.090	0.3	99	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.800	8.8	93	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.346	0.327	5.5	91	0.00
36	T	1,1-Dichloropropene	0.448	0.450	-0.4	103	0.00
37	T	Ethyl Acetate	0.553	0.577	-4.3	101	0.00
38	T	Carbon Tetrachloride	0.482	0.499	-3.5	101	0.00
39	T	Methylcyclohexane	0.535	0.586	-9.5	107	0.00
40	TM	Benzene	1.359	1.333	1.9	96	0.00
41	T	Methacrylonitrile	0.294	0.288	2.0	97	0.00
42	TM	1,2-Dichloroethane	0.560	0.559	0.2	97	0.00
43	T	Isopropyl Acetate	0.865	0.893	-3.2	99	0.00
44	TM	Trichloroethene	0.339	0.337	0.6	98	0.00
45	C	1,2-Dichloropropane	0.347	0.330	4.9#	94	0.00
46	T	Dibromomethane	0.269	0.276	-2.6	98	0.00
47	T	Bromodichloromethane	0.465	0.492	-5.8	98	0.00
48	T	Methyl methacrylate	0.420	0.427	-1.7	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.007	0.006	14.3	87	0.00
50	S	Toluene-d8	1.168	1.144	2.1	93	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.567	-2.0	98	0.00
52	CM	Toluene	0.853	0.840	1.5#	97	0.00
53	T	t-1,3-Dichloropropene	0.455	0.509	-11.9	101	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.543	-7.1	97	0.00
55	T	1,1,2-Trichloroethane	0.339	0.343	-1.2	97	0.00
56	T	Ethyl methacrylate	0.535	0.566	-5.8	100	0.00
57	T	1,3-Dichloropropane	0.590	0.580	1.7	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.280	-3.7	97	0.00
59	T	2-Hexanone	0.403	0.438	-8.7	101	0.00
60	T	Dibromochloromethane	0.326	0.352	-8.0	97	0.00
61	T	1,2-Dibromoethane	0.345	0.358	-3.8	99	0.00
62	S	4-Bromofluorobenzene	0.408	0.409	-0.2	94	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64	T	Tetrachloroethene	0.332	0.317	4.5	101	0.00
65	PM	Chlorobenzene	1.071	1.031	3.7	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.354	-2.9	97	0.00
67	C	Ethyl Benzene	1.851	1.831	1.1#	98	0.00
68	T	m/p-Xylenes	0.679	0.679	0.0	98	0.00
69	T	o-Xylene	0.687	0.684	0.4	100	0.00
70	T	Styrene	1.102	1.137	-3.2	100	0.00
71	P	Bromoform	0.219	0.242	-10.5	101	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73	T	Isopropylbenzene	3.828	3.752	2.0	101	0.00
74	T	N-amyl acetate	1.769	1.840	-4.0	101	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.268	4.6	100	0.00
76	T	1,2,3-Trichloropropane	1.116	1.039	6.9	97	0.00
77	T	Bromobenzene	0.928	0.879	5.3	98	0.00
78	T	n-propylbenzene	4.231	4.300	-1.6	100	0.00
79	T	2-Chlorotoluene	2.736	2.602	4.9	98	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.138	1.1	100	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.371	-6.9	105	0.00
82	T	4-Chlorotoluene	3.030	2.980	1.7	100	0.00
83	T	tert-Butylbenzene	3.137	3.098	1.2	100	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.138	-0.7	100	0.00
85	T	sec-Butylbenzene	3.808	3.816	-0.2	100	0.00
86	T	p-Isopropyltoluene	3.170	3.213	-1.4	101	0.00
87	T	1,3-Dichlorobenzene	1.621	1.593	1.7	99	0.00
88	T	1,4-Dichlorobenzene	1.667	1.609	3.5	101	0.00
89	T	n-Butylbenzene	2.665	2.836	-6.4	105	0.00
90	T	Hexachloroethane	0.463	0.488	-5.4	101	0.00
91	T	1,2-Dichlorobenzene	1.683	1.602	4.8	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.268	-3.9	103	0.00
93	T	1,2,4-Trichlorobenzene	0.923	0.996	-7.9	107	0.00
94	T	Hexachlorobutadiene	0.371	0.377	-1.6	107	0.00
95	T	Naphthalene	3.603	3.662	-1.6	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.003	-2.5	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	107	0.00
2	T	Dichlorodifluoromethane	50.000	50.390	-0.8	106	0.00
3	P	Chloromethane	50.000	46.681	6.6	98	0.00
4	C	Vinyl Chloride	50.000	47.260	5.5#	99	0.00
5	T	Bromomethane	50.000	45.926	8.1	97	0.00
6	T	Chloroethane	50.000	48.801	2.4	94	0.00
7	T	Trichlorofluoromethane	50.000	50.311	-0.6	105	0.00
8	T	Diethyl Ether	50.000	45.658	8.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.374	-0.7	107	0.00
10	T	Methyl Iodide	50.000	46.349	7.3	94	0.00
11	T	Tert butyl alcohol	250.000	233.680	6.5	102	0.00
12	CM	1,1-Dichloroethene	50.000	49.311	1.4#	99	0.00
13	T	Acrolein	250.000	233.162	6.7	96	0.00
14	T	Allyl chloride	50.000	49.744	0.5	98	0.00
15	T	Acrylonitrile	250.000	240.620	3.8	98	0.00
16	T	Acetone	250.000	271.312	-8.5	109	0.00
17	T	Carbon Disulfide	50.000	52.397	-4.8	104	0.00
18	T	Methyl Acetate	50.000	46.725	6.5	96	0.00
19	T	Methyl tert-butyl Ether	50.000	47.940	4.1	97	0.00
20	T	Methylene Chloride	50.000	46.170	7.7	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.459	3.1	100	0.00
22	T	Diisopropyl ether	50.000	46.922	6.2	97	0.00
23	T	Vinyl Acetate	250.000	258.510	-3.4	99	0.00
24	P	1,1-Dichloroethane	50.000	48.056	3.9	97	0.00
25	T	2-Butanone	250.000	253.747	-1.5	100	0.00
26	T	2,2-Dichloropropane	50.000	54.872	-9.7	107	0.00
27	T	cis-1,2-Dichloroethene	50.000	46.709	6.6	98	0.00
28	T	Bromochloromethane	50.000	44.832	10.3	93	0.00
29	T	Tetrahydrofuran	250.000	238.031	4.8	98	0.00
30	C	Chloroform	50.000	46.235	7.5#	97	0.00
31	T	Cyclohexane	50.000	49.443	1.1	102	0.00
32	T	1,1,1-Trichloroethane	50.000	49.895	0.2	99	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.646	8.7	93	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	47.228	5.5	91	0.00
36	T	1,1-Dichloropropene	50.000	50.314	-0.6	103	0.00
37	T	Ethyl Acetate	50.000	52.176	-4.4	101	0.00
38	T	Carbon Tetrachloride	50.000	51.763	-3.5	101	0.00
39	T	Methylcyclohexane	50.000	54.761	-9.5	107	0.00
40	TM	Benzene	50.000	49.052	1.9	96	0.00
41	T	Methacrylonitrile	50.000	48.945	2.1	97	0.00
42	TM	1,2-Dichloroethane	50.000	49.960	0.1	97	0.00
43	T	Isopropyl Acetate	50.000	51.624	-3.2	99	0.00
44	TM	Trichloroethene	50.000	49.741	0.5	98	0.00
45	C	1,2-Dichloropropane	50.000	47.528	4.9#	94	0.00
46	T	Dibromomethane	50.000	51.227	-2.5	98	0.00
47	T	Bromodichloromethane	50.000	52.893	-5.8	98	0.00
48	T	Methyl methacrylate	50.000	50.852	-1.7	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	923.966	7.6	87	0.00
50	S	Toluene-d8	50.000	48.968	2.1	93	0.00
51	T	4-Methyl-2-Pentanone	250.000	255.038	-2.0	98	0.00
52	CM	Toluene	50.000	49.199	1.6#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	50.864	-1.7	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.607	-7.2	97	0.00
55	T	1,1,2-Trichloroethane	50.000	50.562	-1.1	97	0.00
56	T	Ethyl methacrylate	50.000	52.890	-5.8	100	0.00
57	T	1,3-Dichloropropane	50.000	49.165	1.7	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.586	-3.8	97	0.00
59	T	2-Hexanone	250.000	271.943	-8.8	101	0.00
60	T	Dibromochloromethane	50.000	49.073	1.9	97	0.00
61	T	1,2-Dibromoethane	50.000	51.909	-3.8	99	0.00
62	S	4-Bromofluorobenzene	50.000	50.098	-0.2	94	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64	T	Tetrachloroethene	50.000	47.702	4.6	101	0.00
65	PM	Chlorobenzene	50.000	48.133	3.7	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.396	-2.8	97	0.00
67	C	Ethyl Benzene	50.000	49.461	1.1#	98	0.00
68	T	m/p-Xylenes	100.000	99.896	0.1	98	0.00
69	T	o-Xylene	50.000	49.750	0.5	100	0.00
70	T	Styrene	50.000	51.617	-3.2	100	0.00
71	P	Bromoform	50.000	50.269	-0.5	101	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73	T	Isopropylbenzene	50.000	49.014	2.0	101	0.00
74	T	N-amyl acetate	50.000	52.003	-4.0	101	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.676	4.6	100	0.00
76	T	1,2,3-Trichloropropane	50.000	46.544	6.9	97	0.00
77	T	Bromobenzene	50.000	47.335	5.3	98	0.00
78	T	n-propylbenzene	50.000	50.816	-1.6	100	0.00
79	T	2-Chlorotoluene	50.000	47.546	4.9	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.431	1.1	100	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.861	4.3	105	0.00
82	T	4-Chlorotoluene	50.000	49.178	1.6	100	0.00
83	T	tert-Butylbenzene	50.000	49.384	1.2	100	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.333	-0.7	100	0.00
85	T	sec-Butylbenzene	50.000	50.097	-0.2	100	0.00
86	T	p-Isopropyltoluene	50.000	50.678	-1.4	101	0.00
87	T	1,3-Dichlorobenzene	50.000	49.122	1.8	99	0.00
88	T	1,4-Dichlorobenzene	50.000	48.280	3.4	101	0.00
89	T	n-Butylbenzene	50.000	53.207	-6.4	105	0.00
90	T	Hexachloroethane	50.000	52.727	-5.5	101	0.00
91	T	1,2-Dichlorobenzene	50.000	47.589	4.8	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.864	-3.7	103	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.940	-7.9	107	0.00
94	T	Hexachlorobutadiene	50.000	50.770	-1.5	107	0.00
95	T	Naphthalene	50.000	50.827	-1.7	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	51.244	-2.5	103	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date/Time: 12/18/2024 11:57

Lab File ID: VX044375.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.800		3.49	20
Chloromethane	0.739	0.720	0.1	-2.57	20
Vinyl Chloride	0.770	0.743		-3.51	20
Bromomethane	0.546	0.475		-13	20
Chloroethane	0.480	0.494		2.92	20
Trichlorofluoromethane	1.508	1.275		-15.45	20
1,1,2-Trichlorotrifluoroethane	0.610	0.613		0.49	20
1,1-Dichloroethene	0.560	0.566		1.07	20
Acetone	0.357	0.298		-16.53	20
Carbon Disulfide	1.065	1.209		13.52	20
Methyl tert-butyl Ether	2.187	2.034		-7	20
Methyl Acetate	0.922	0.830		-9.98	20
Methylene Chloride	0.671	0.643		-4.17	20
trans-1,2-Dichloroethene	0.596	0.594		-0.34	20
1,1-Dichloroethane	1.172	1.124	0.1	-4.1	20
Cyclohexane	0.946	0.956		1.06	20
2-Butanone	0.508	0.450		-11.42	20
Carbon Tetrachloride	0.482	0.517		7.26	20
cis-1,2-Dichloroethene	0.756	0.723		-4.36	20
Bromochloromethane	0.575	0.531		-7.65	20
Chloroform	1.316	1.196		-9.12	20
1,1,1-Trichloroethane	1.093	1.072		-1.92	20
Methylcyclohexane	0.535	0.624		16.64	20
Benzene	1.359	1.428		5.08	20
1,2-Dichloroethane	0.560	0.555		-0.89	20
Trichloroethene	0.339	0.364		7.38	20
1,2-Dichloropropane	0.347	0.356		2.59	20
Bromodichloromethane	0.465	0.508		9.25	20
4-Methyl-2-Pentanone	0.556	0.546		-1.8	20
Toluene	0.853	0.900		5.51	20
t-1,3-Dichloropropene	0.455	0.521		14.51	20
cis-1,3-Dichloropropene	0.507	0.571		12.62	20
1,1,2-Trichloroethane	0.339	0.351		3.54	20
2-Hexanone	0.403	0.402		-0.25	20
Dibromochloromethane	0.326	0.365		11.96	20
1,2-Dibromoethane	0.345	0.365		5.8	20
Tetrachloroethene	0.332	0.358		7.83	20
Chlorobenzene	1.071	1.111	0.3	3.73	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date/Time: 12/18/2024 11:57

Lab File ID: VX044375.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.955		5.62	20
m/p-Xylenes	0.679	0.737		8.54	20
o-Xylene	0.687	0.731		6.41	20
Styrene	1.102	1.210		9.8	20
Bromoform	0.219	0.261	0.1	19.18	20
Isopropylbenzene	3.828	4.011		4.78	20
1,1,2,2-Tetrachloroethane	1.329	1.294	0.3	-2.63	20
1,3-Dichlorobenzene	1.621	1.757		8.39	20
1,4-Dichlorobenzene	1.667	1.734		4.02	20
1,2-Dichlorobenzene	1.684	1.744		3.56	20
1,2-Dibromo-3-Chloropropane	0.258	0.244		-5.43	20
1,2,4-Trichlorobenzene	0.923	1.075		16.47	20
1,2,3-Trichlorobenzene	0.979	1.107		13.07	20
1,2-Dichloroethane-d4	0.877	0.742		-15.39	20
Dibromofluoromethane	0.346	0.340		-1.73	20
Toluene-d8	1.168	1.164		-0.34	20
4-Bromofluorobenzene	0.408	0.413		1.23	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	145222	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	244425	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	100489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	107787	42.332	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 84.660%			
35) Dibromofluoromethane	5.379	113	83132	49.107	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.220%			
50) Toluene-d8	8.647	98	284482	49.811	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.620%			
62) 4-Bromofluorobenzene	11.079	95	101069	50.645	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	116148	51.725	ug/l	96
3) Chloromethane	1.295	50	104547	48.687	ug/l	99
4) Vinyl Chloride	1.374	62	107961	48.260	ug/l	99
5) Bromomethane	1.593	94	69033	43.497	ug/l	98
6) Chloroethane	1.666	64	71760	51.515	ug/l	100
7) Trichlorofluoromethane	1.868	101	185191	42.285	ug/l	98
8) Diethyl Ether	2.130	74	62582	41.863	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.313	101	89093	50.273	ug/l	97
10) Methyl Iodide	2.441	142	114340	48.954	ug/l	97
11) Tert butyl alcohol	2.989	59	82750	230.596	ug/l	97
12) 1,1-Dichloroethene	2.307	96	82169	50.480	ug/l	97
13) Acrolein	2.233	56	116572	224.413	ug/l	100
14) Allyl chloride	2.654	41	136530	50.357	ug/l	99
15) Acrylonitrile	3.063	53	229722	231.100	ug/l	99
16) Acetone	2.386	43	216281	208.352	ug/l	96
17) Carbon Disulfide	2.502	76	175625	56.760	ug/l	98
18) Methyl Acetate	2.703	43	120549	45.040	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	295317	46.491	ug/l	99
20) Methylene Chloride	2.782	84	93400	47.904	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	86210	49.833	ug/l	97
22) Diisopropyl ether	3.758	45	285517	46.766	ug/l	95
23) Vinyl Acetate	3.715	43	1267305	255.320	ug/l	99
24) 1,1-Dichloroethane	3.599	63	163171	47.946	ug/l	99
25) 2-Butanone	4.556	43	326836	221.473	ug/l	99
26) 2,2-Dichloropropane	4.465	77	145905	52.773	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	105020	47.800	ug/l	97
28) Bromochloromethane	4.891	49	77185	46.252	ug/l	99
29) Tetrahydrofuran	5.001	42	207544	219.106	ug/l	99
30) Chloroform	5.087	83	173750	45.441	ug/l	98
31) Cyclohexane	5.458	56	138763	50.494	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	155612	49.028	ug/l	99
36) 1,1-Dichloropropene	5.684	75	114333	52.248	ug/l	99
37) Ethyl Acetate	4.715	43	133879	49.494	ug/l	98
38) Carbon Tetrachloride	5.666	117	126452	53.675	ug/l	96
39) Methylcyclohexane	7.373	83	152449	58.275	ug/l	98
40) Benzene	6.032	78	349139	52.550	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	70496	49.080 ug/l	99
42) 1,2-Dichloroethane	6.080	62	135560	49.531 ug/l	97
43) Isopropyl Acetate	6.336	43	216506	51.210 ug/l	98
44) Trichloroethene	7.117	130	88888	53.650 ug/l	97
45) 1,2-Dichloropropane	7.428	63	86995	51.252 ug/l	97
46) Dibromomethane	7.574	93	67868	51.538 ug/l	95
47) Bromodichloromethane	7.818	83	124282	54.647 ug/l	100
48) Methyl methacrylate	7.690	41	102868	50.124 ug/l	98
49) 1,4-Dioxane	7.659	88	24662	724.793 ug/l #	71
51) 4-Methyl-2-Pentanone	8.574	43	667207	245.442 ug/l	99
52) Toluene	8.714	92	220021	52.735 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	127372	52.027 ug/l	96
54) cis-1,3-Dichloropropene	8.360	75	139627	56.385 ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	85878	51.812 ug/l	97
56) Ethyl methacrylate	9.116	69	141073	53.914 ug/l	97
57) 1,3-Dichloropropane	9.305	76	146651	50.832 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	326652	247.508 ug/l	99
59) 2-Hexanone	9.427	43	491495	249.789 ug/l	99
60) Dibromochloromethane	9.519	129	89257	50.794 ug/l	98
61) 1,2-Dibromoethane	9.604	107	89289	52.923 ug/l	98
64) Tetrachloroethene	9.269	164	76137	54.001 ug/l	99
65) Chlorobenzene	10.080	112	236050	51.858 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	82035	56.077 ug/l	99
67) Ethyl Benzene	10.189	91	415285	52.803 ug/l	98
68) m/p-Xylenes	10.299	106	312989	108.454 ug/l	96
69) o-Xylene	10.640	106	155361	53.206 ug/l	97
70) Styrene	10.653	104	257040	54.912 ug/l	97
71) Bromoform	10.799	173	55350	53.638 ug/l #	99
73) Isopropylbenzene	10.957	105	403042	52.392 ug/l	100
74) N-amyl acetate	10.842	43	186211	52.376 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	129995	48.651 ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	108966m	48.566 ug/l	
77) Bromobenzene	11.195	156	96454	51.705 ug/l	98
78) n-propylbenzene	11.305	91	457577	53.816 ug/l	98
79) 2-Chlorotoluene	11.360	91	273862	49.803 ug/l	97
80) 1,3,5-Trimethylbenzene	11.451	105	335043	52.518 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	37990	48.684 ug/l	96
82) 4-Chlorotoluene	11.451	91	317807	52.192 ug/l	98
83) tert-Butylbenzene	11.713	119	333427	52.885 ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	337162	53.815 ug/l	99
85) sec-Butylbenzene	11.890	105	413244	53.991 ug/l	99
86) p-Isopropyltoluene	12.006	119	345517	54.238 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	176589	54.193 ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	174295	52.033 ug/l	98
89) n-Butylbenzene	12.329	91	309732	57.821 ug/l	99
90) Hexachloroethane	12.536	117	53223	57.234 ug/l	93
91) 1,2-Dichlorobenzene	12.335	146	175242	51.794 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24513	47.259 ug/l	89
93) 1,2,4-Trichlorobenzene	13.585	180	107991	58.218 ug/l	98
94) Hexachlorobutadiene	13.725	225	44782	60.019 ug/l	98
95) Naphthalene	13.774	128	382648	52.848 ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	111207	56.523 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

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

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

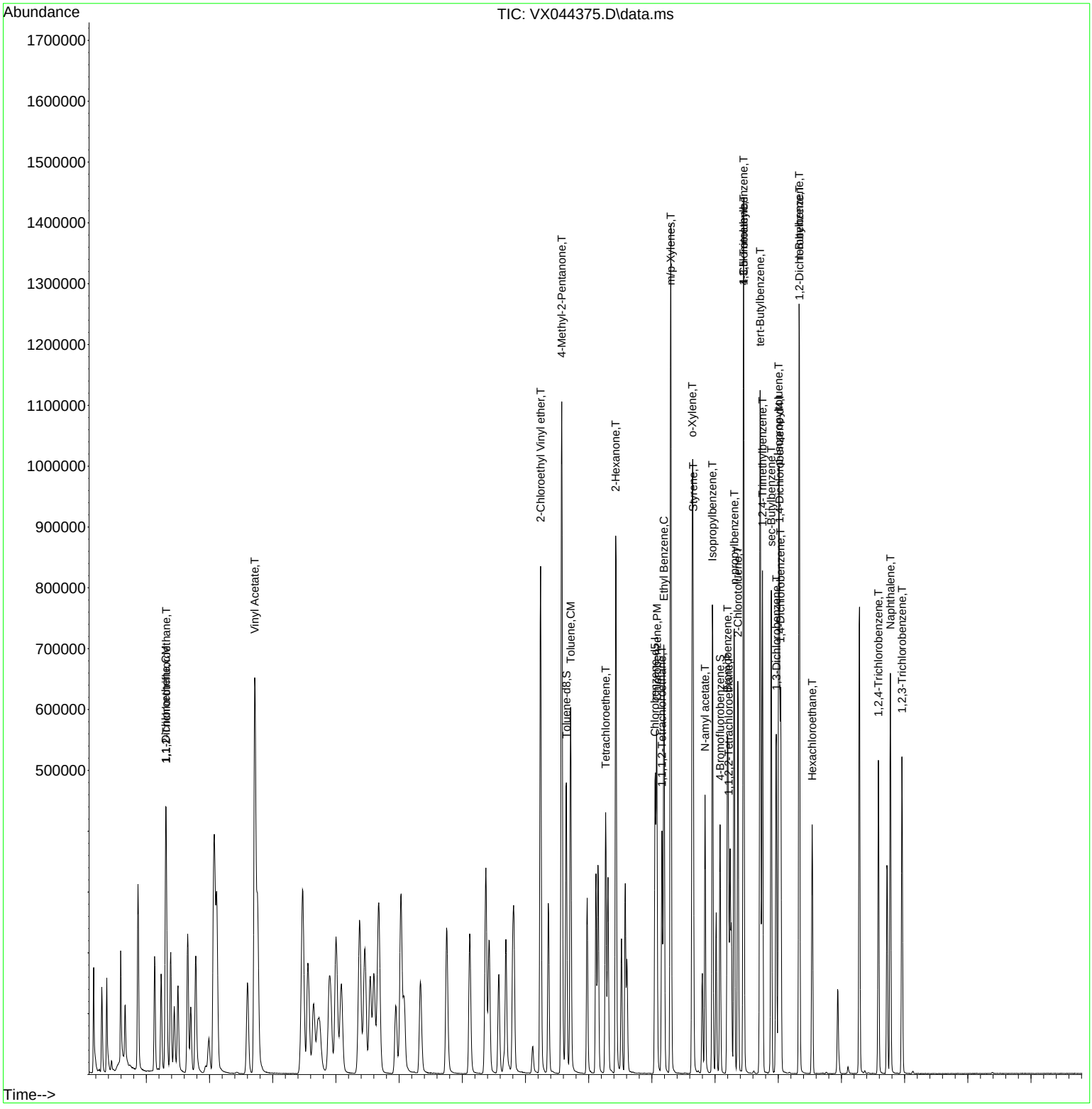
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

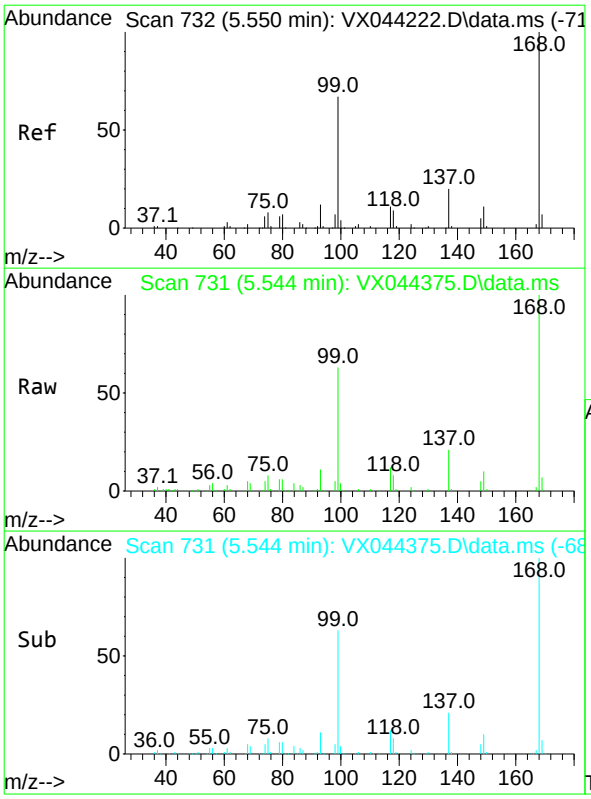
Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

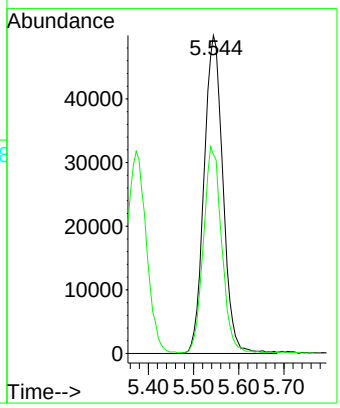




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:168 Resp: 145222

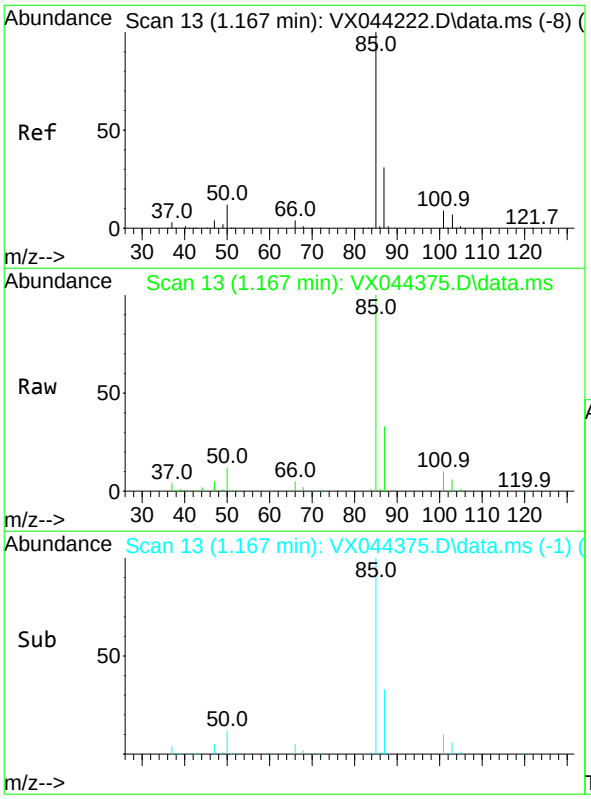
Ion	Ratio	Lower	Upper
168	100		
99	62.3	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

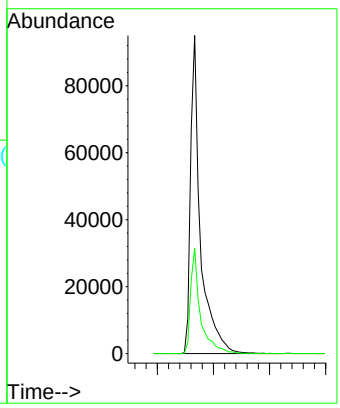
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

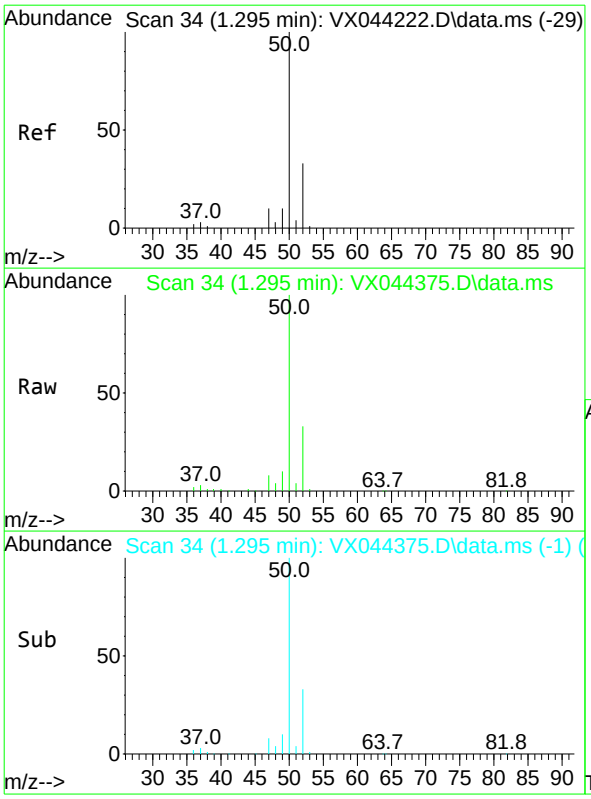


#2
Dichlorodifluoromethane
Concen: 51.725 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 85 Resp: 116148

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.4	46.4

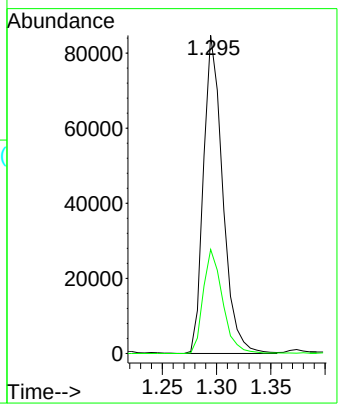




#3
Chloromethane
Concen: 48.687 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 50 Resp: 104547

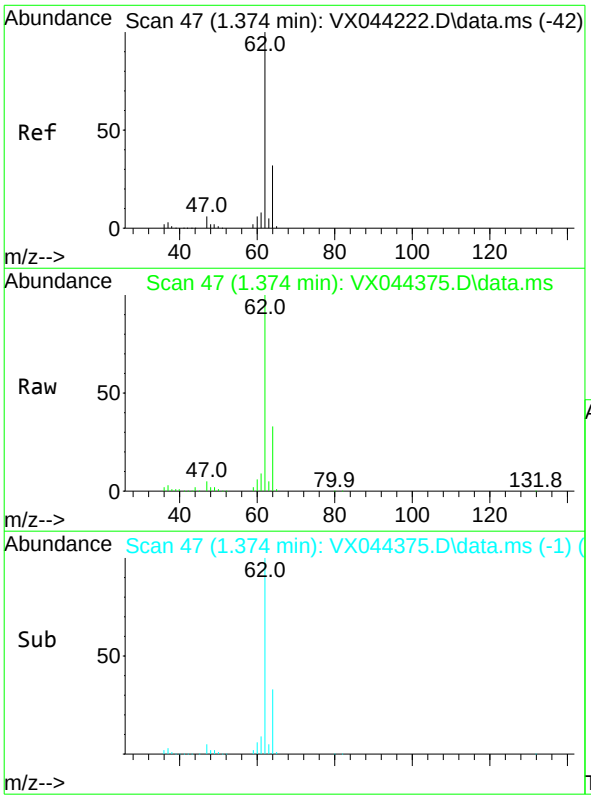
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

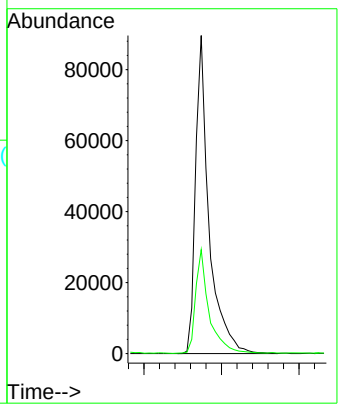
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

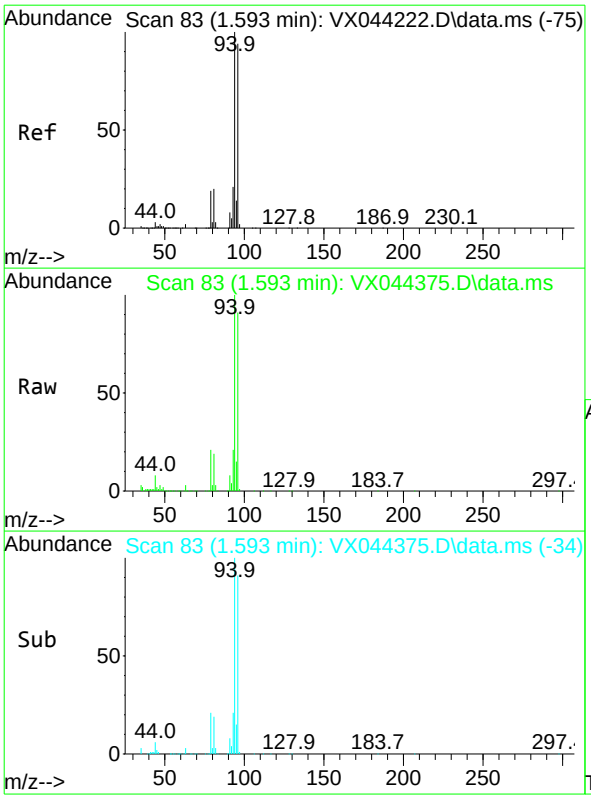


#4
Vinyl Chloride
Concen: 48.260 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 62 Resp: 107961

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5

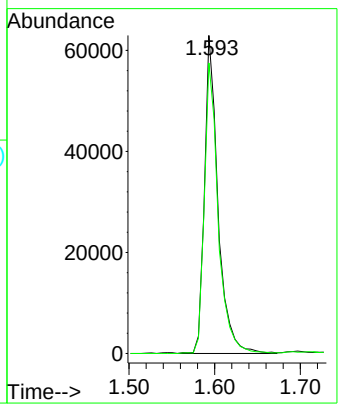




#5
Bromomethane
Concen: 43.497 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 94 Resp: 69033

Ion	Ratio	Lower	Upper
94	100		
96	91.3	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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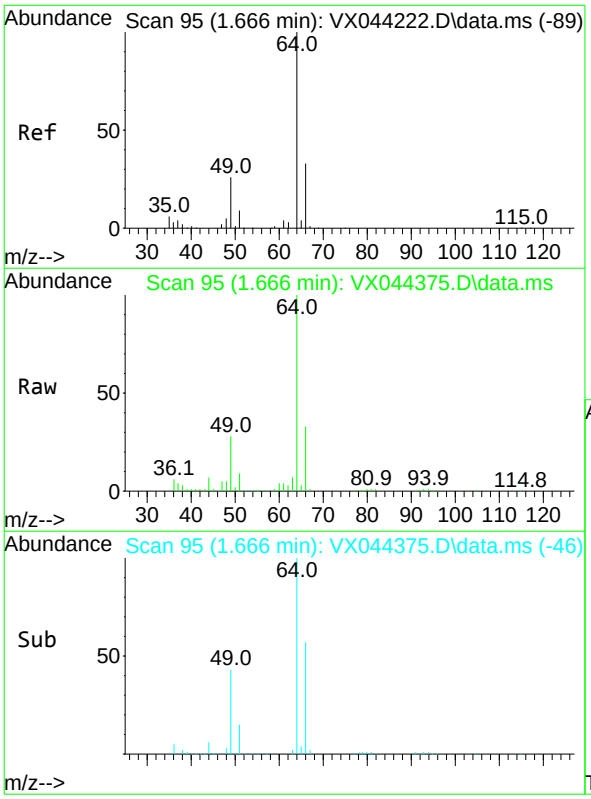
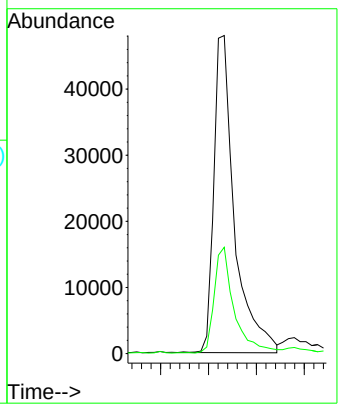
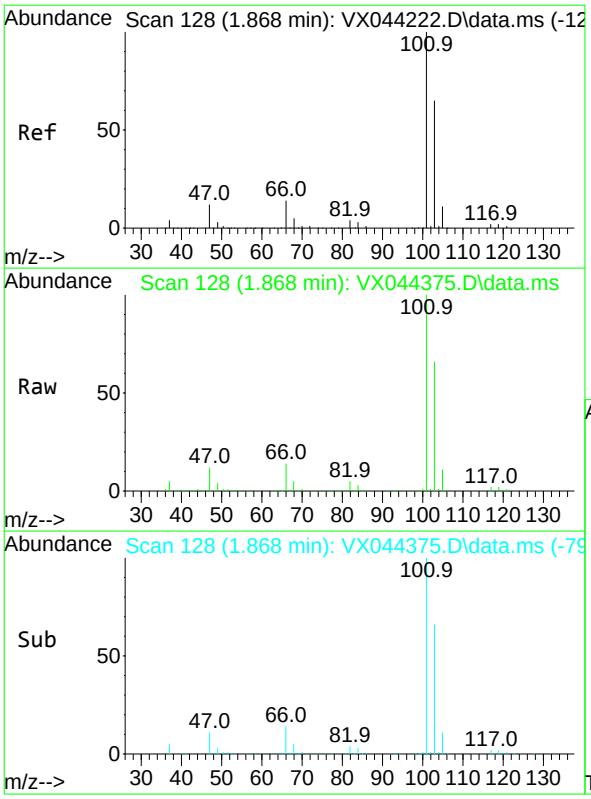


#6
Chloroethane
Concen: 51.515 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 64 Resp: 71760

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.6	39.8

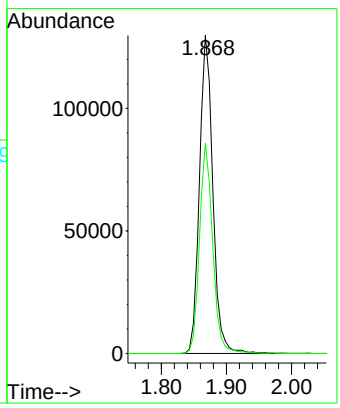




#7
Trichlorofluoromethane
Concen: 42.285 ug/l
RT: 1.868 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:101 Resp: 185191

Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.8	77.8



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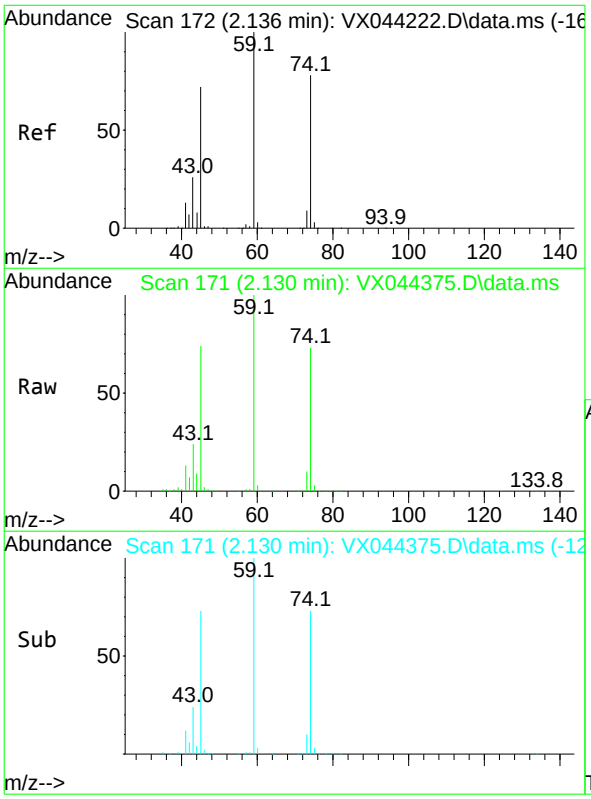
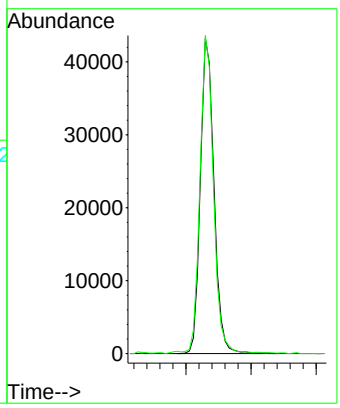
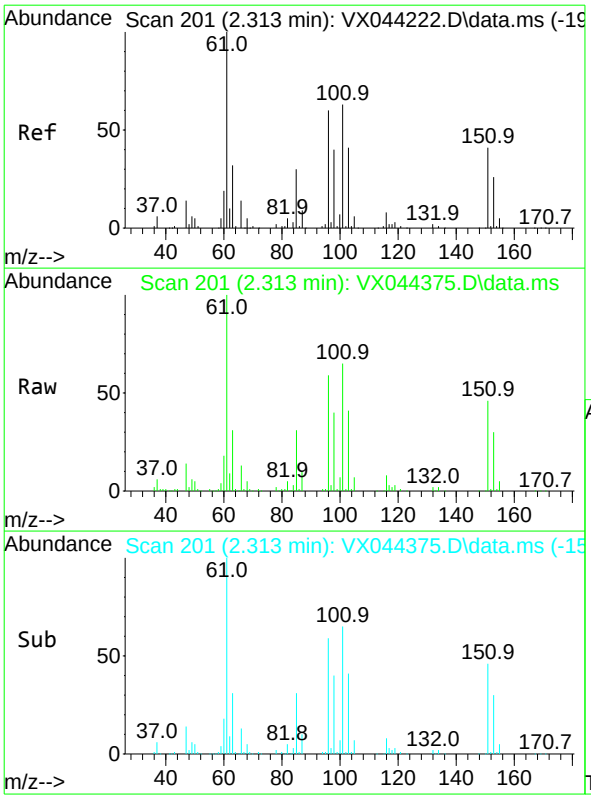


#8
Diethyl Ether
Concen: 41.863 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 74 Resp: 62582

Ion	Ratio	Lower	Upper
74	100		
45	101.1	48.4	145.0

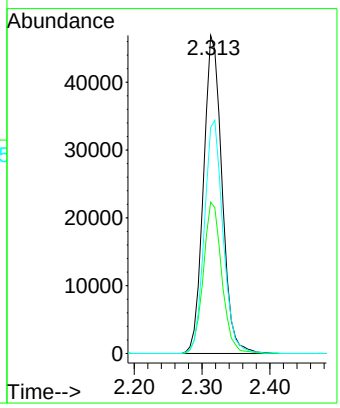




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.273 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:101 Resp: 89093

Ion	Ratio	Lower	Upper
101	100		
85	47.4	38.5	57.7
151	73.8	55.8	83.6



Instrument :
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ClientSampleId :
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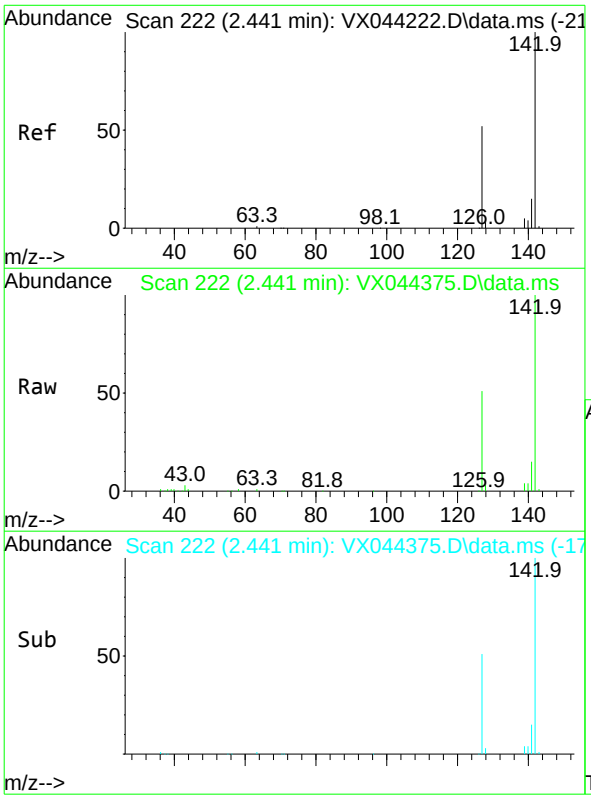
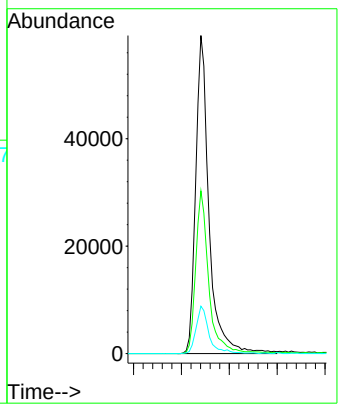
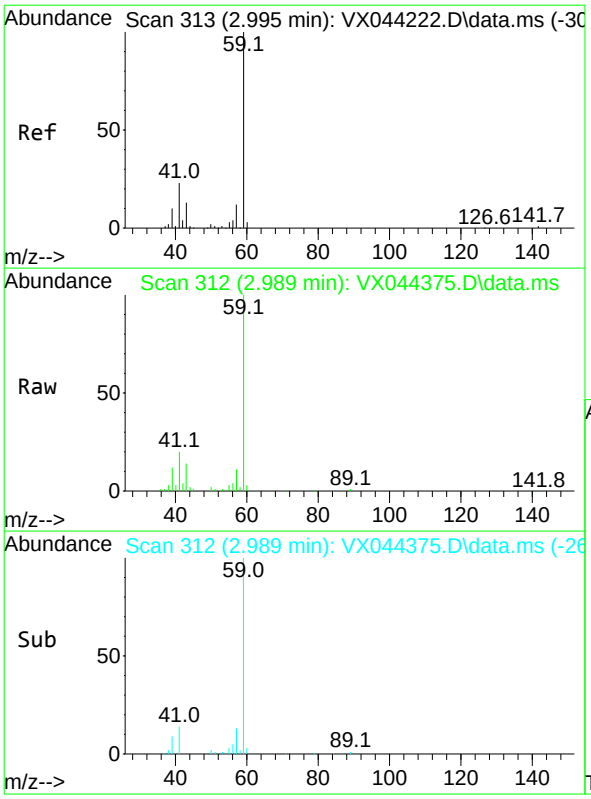


#10
Methyl Iodide
Concen: 48.954 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:142 Resp: 114340

Ion	Ratio	Lower	Upper
142	100		
127	50.0	41.8	62.8
141	14.4	11.5	17.3

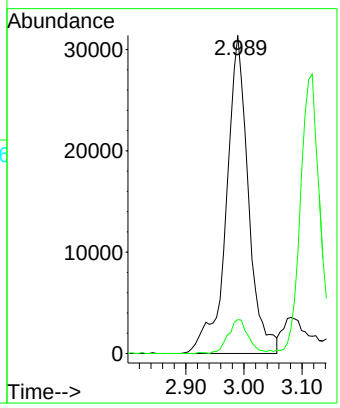




#11
Tert butyl alcohol
Concen: 230.596 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 59 Resp: 82750

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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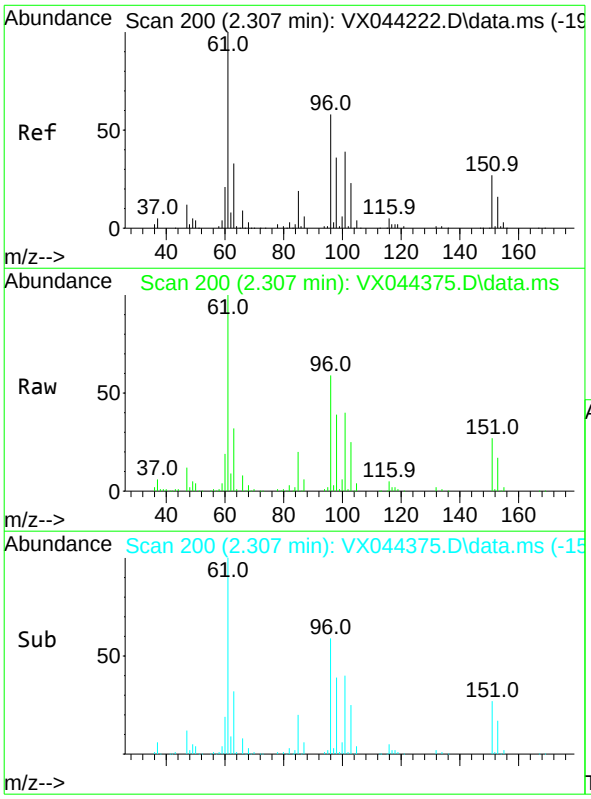
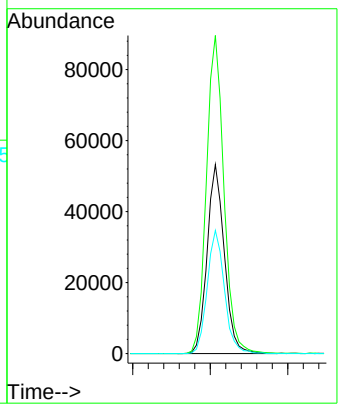
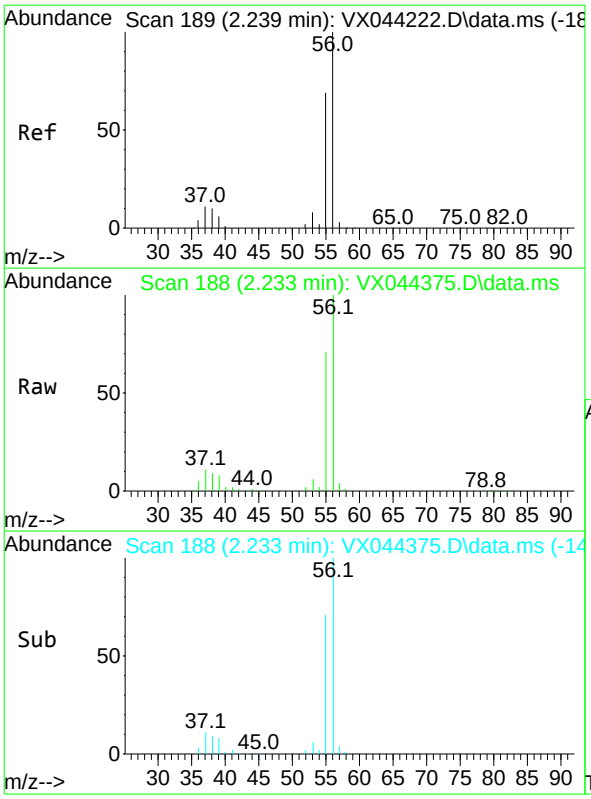


#12
1,1-Dichloroethene
Concen: 50.480 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 96 Resp: 82169

Ion	Ratio	Lower	Upper
96	100		
61	168.3	138.0	207.0
98	65.1	50.0	75.0

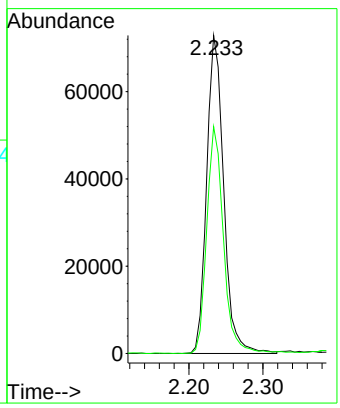




#13
Acrolein
Concen: 224.413 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 56 Resp: 116572

Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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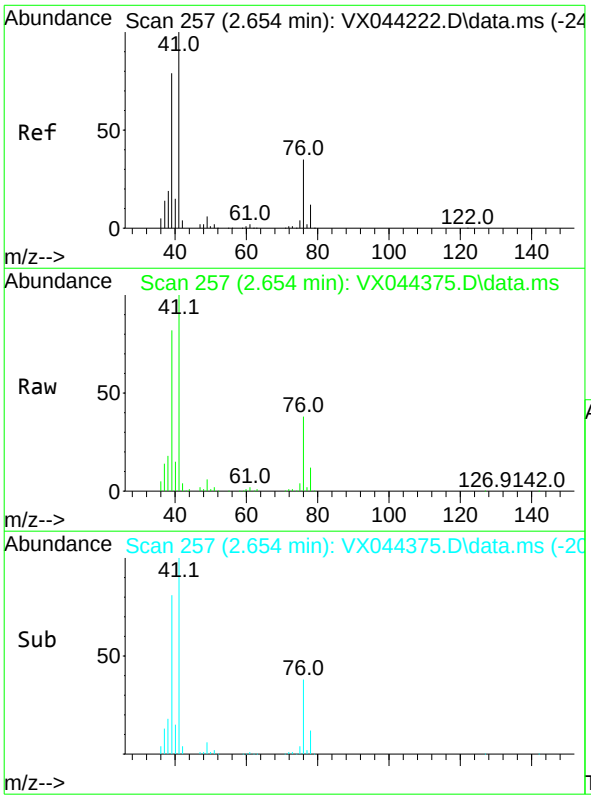
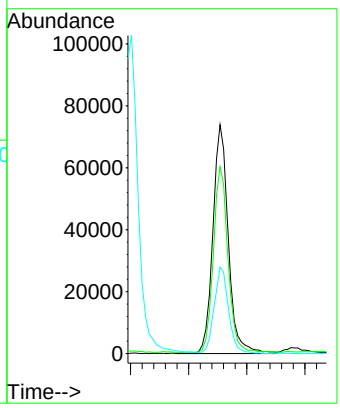
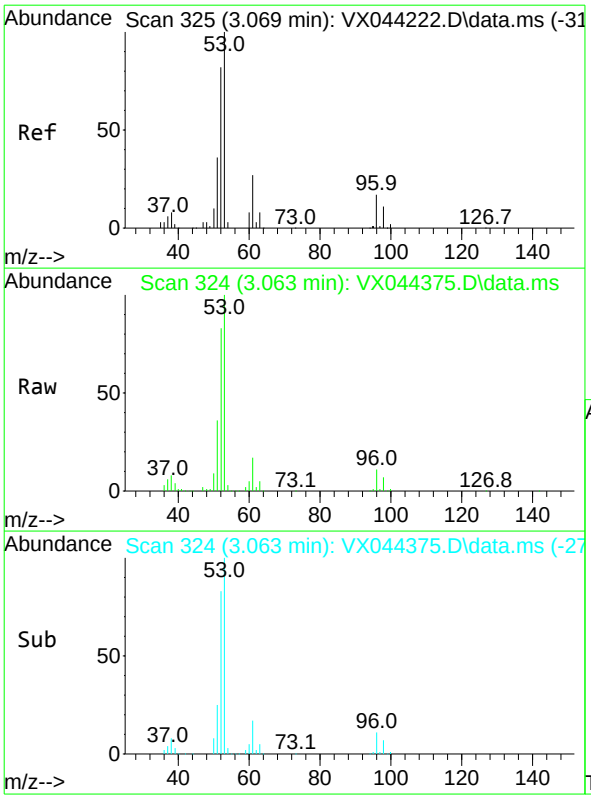


#14
Allyl chloride
Concen: 50.357 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 41 Resp: 136530

Ion	Ratio	Lower	Upper
41	100		
39	76.4	61.9	92.9
76	35.1	27.4	41.2

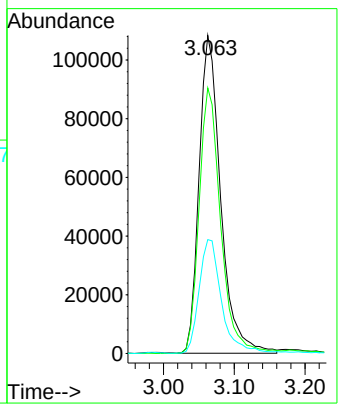




#15
Acrylonitrile
Concen: 231.100 ug/l
RT: 3.063 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 53 Resp: 229722

Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.4	101.0
51	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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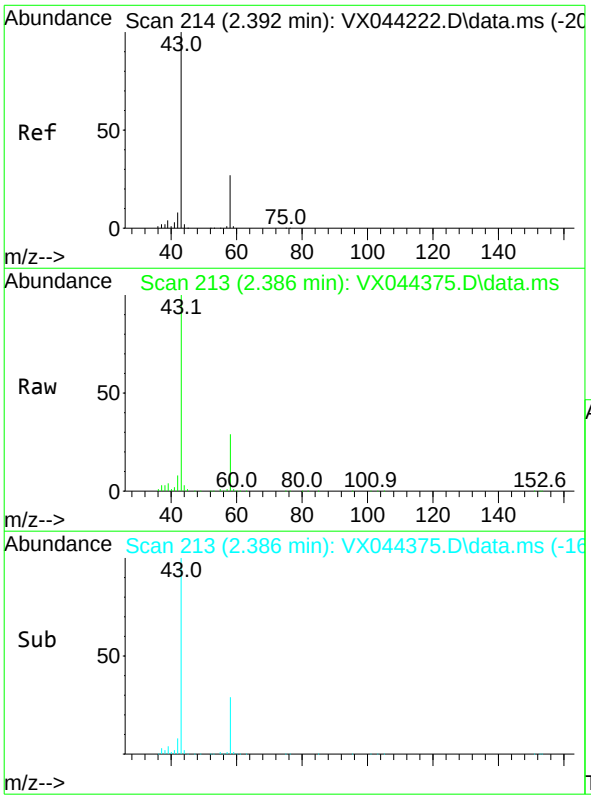
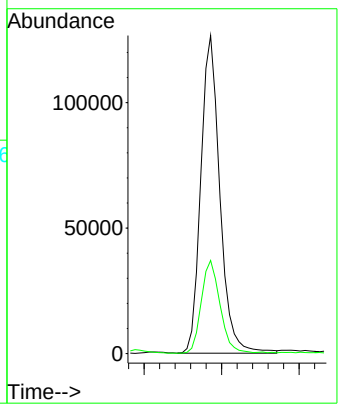
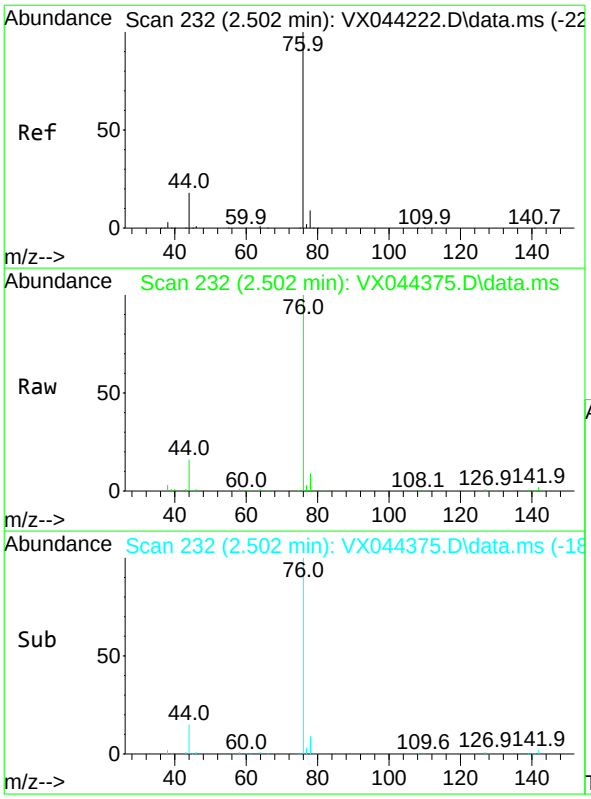


#16
Acetone
Concen: 208.352 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 216281

Ion	Ratio	Lower	Upper
43	100		
58	29.2	21.6	32.4

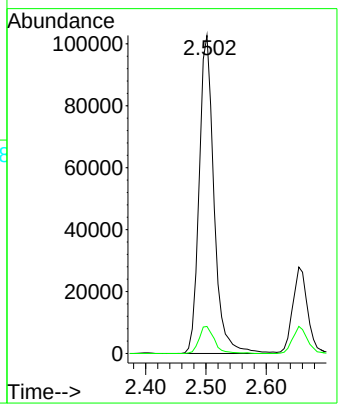




#17
Carbon Disulfide
Concen: 56.760 ug/l
RT: 2.502 min Scan# 23
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 76 Resp: 175625

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.0



Instrument :
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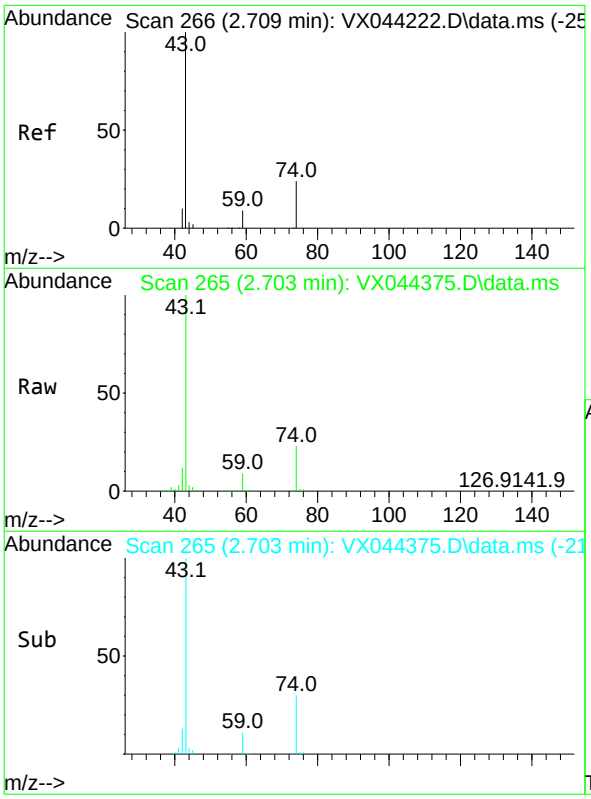
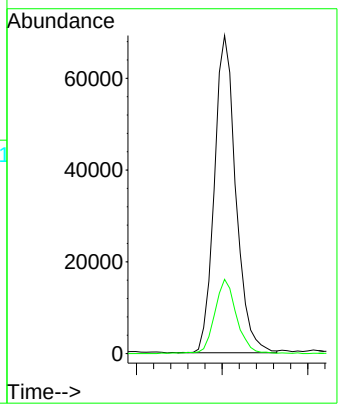
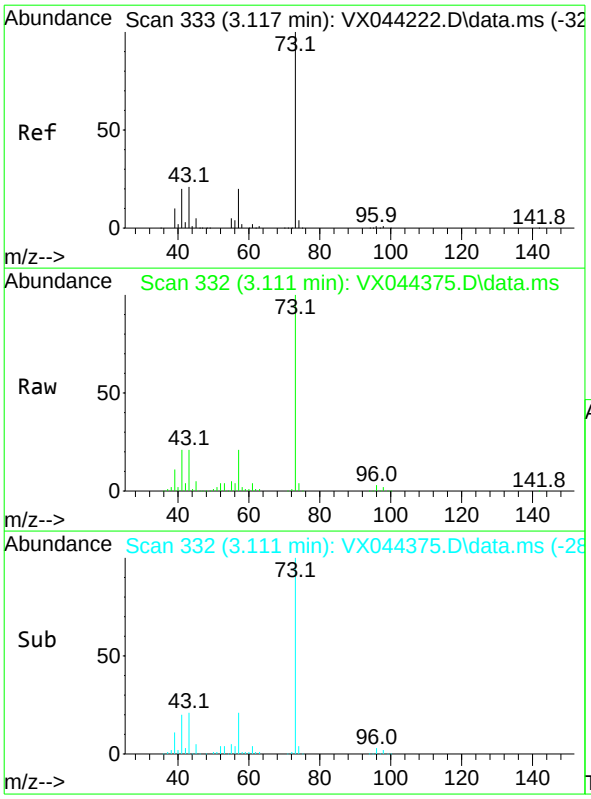


#18
Methyl Acetate
Concen: 45.040 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 120549

Ion	Ratio	Lower	Upper
43	100		
74	24.0	17.7	26.5

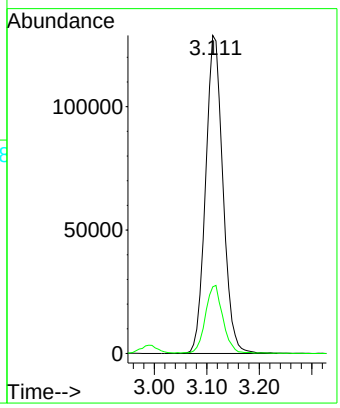




#19
Methyl tert-butyl Ether
Concen: 46.491 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 73 Resp: 295317

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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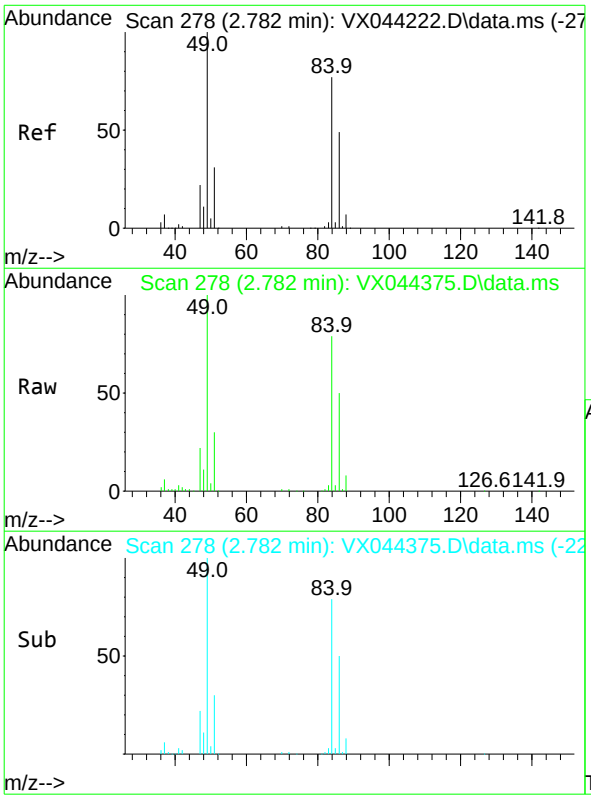
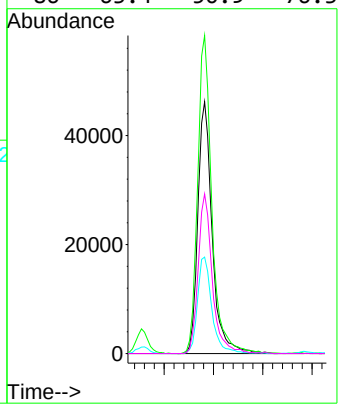
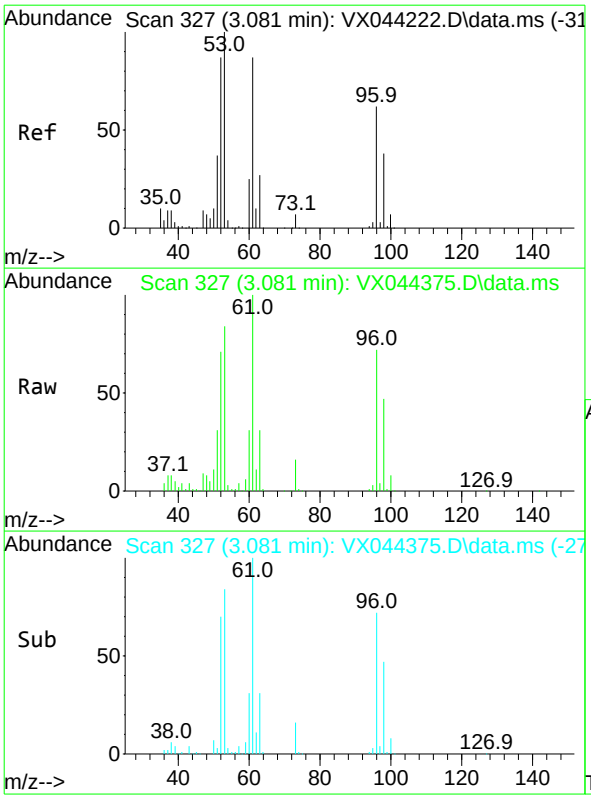


#20
Methylene Chloride
Concen: 47.904 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 84 Resp: 93400

Ion	Ratio	Lower	Upper
84	100		
49	126.3	104.2	156.4
51	38.3	32.2	48.4
86	63.4	50.9	76.3

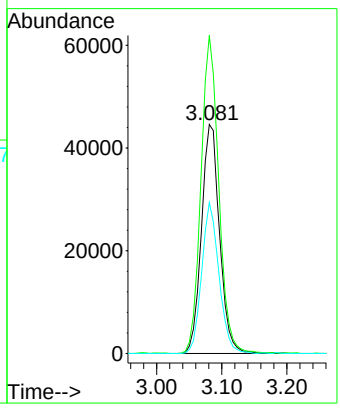




#21
trans-1,2-Dichloroethene
Concen: 49.833 ug/l
RT: 3.081 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 96 Resp: 86210

Ion	Ratio	Lower	Upper
96	100		
61	138.9	112.0	168.0
98	65.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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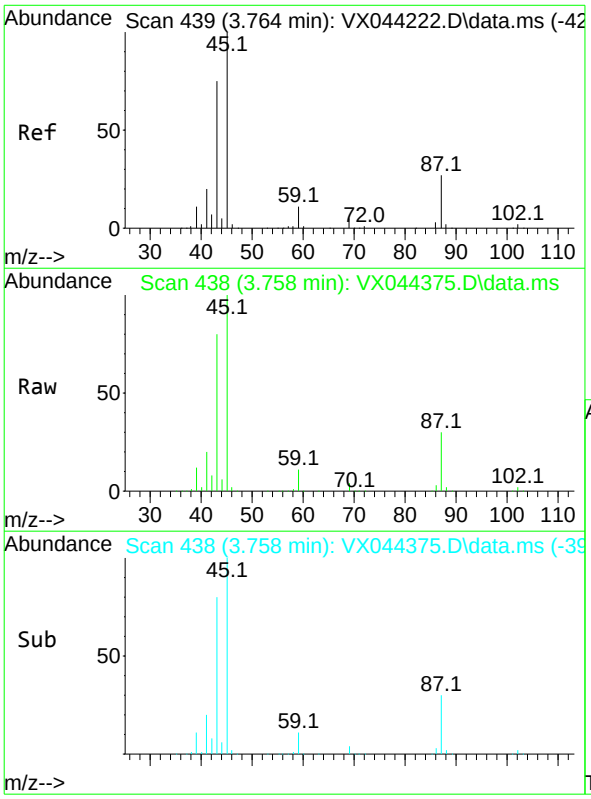
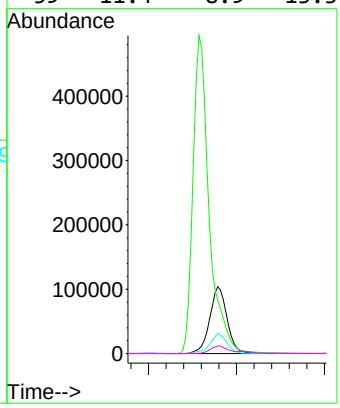
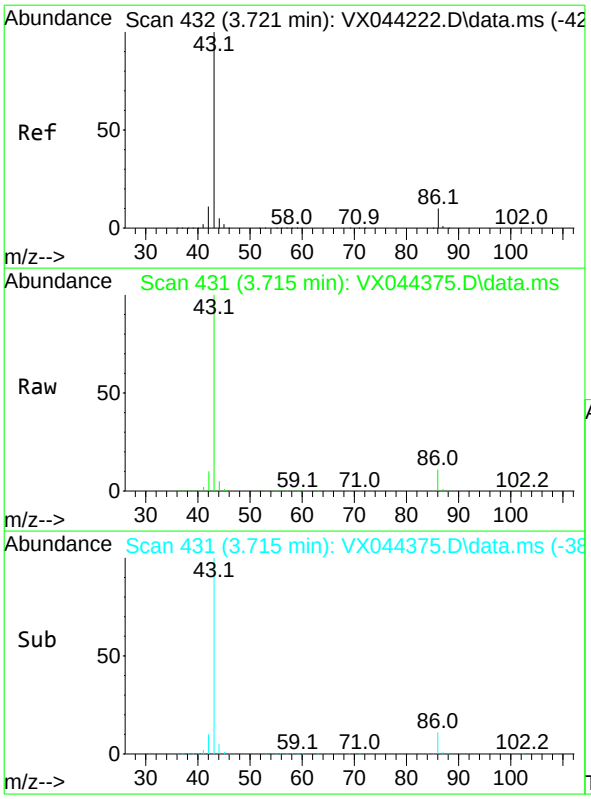


#22
Diisopropyl ether
Concen: 46.766 ug/l
RT: 3.758 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 45 Resp: 285517

Ion	Ratio	Lower	Upper
45	100		
43	80.0	60.2	90.2
87	30.0	21.2	31.8
59	11.4	8.9	13.3

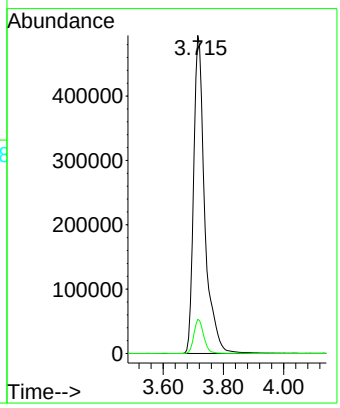




#23
Vinyl Acetate
Concen: 255.320 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 1267305

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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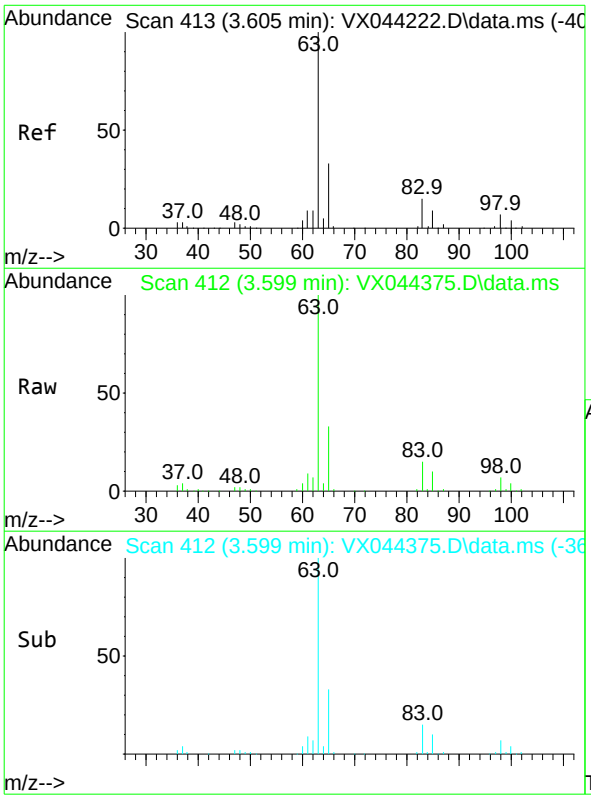
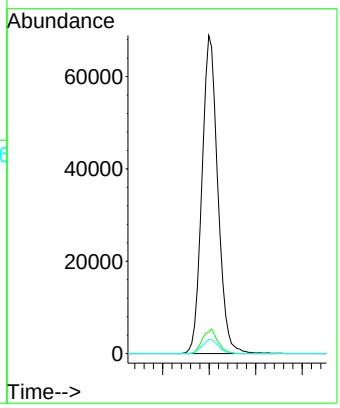
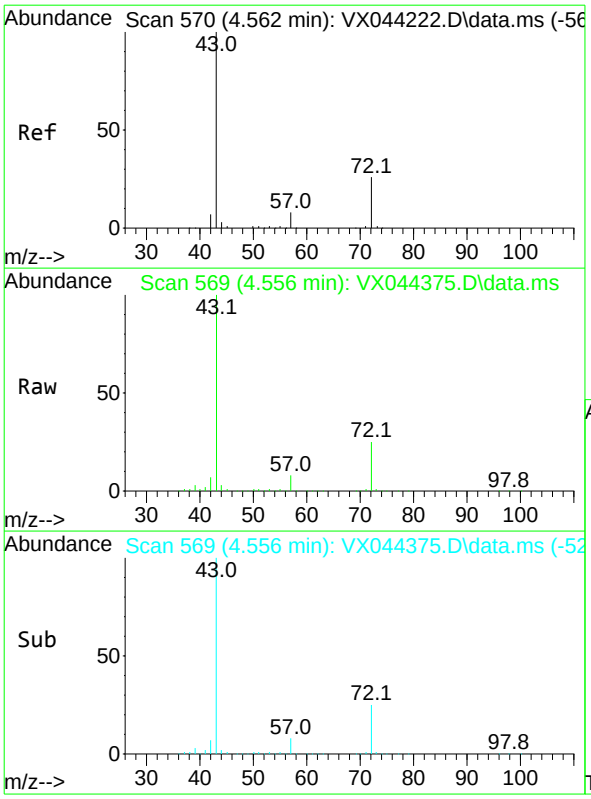


#24
1,1-Dichloroethane
Concen: 47.946 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 63 Resp: 163171

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.6	10.8
100	4.4	2.1	6.3

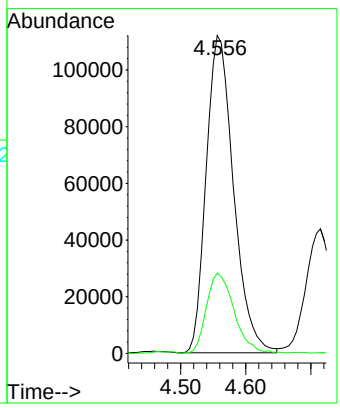




#25
2-Butanone
Concen: 221.473 ug/l
RT: 4.556 min Scan# 56
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 326836

Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.2	30.4



Instrument :
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ClientSampleId :
VSTDCCC050

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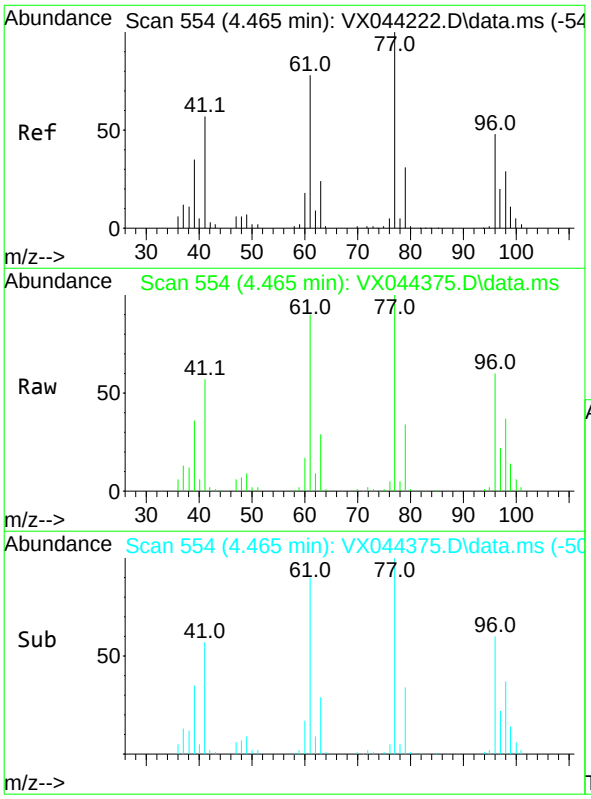
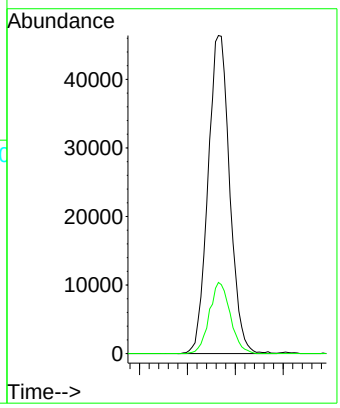
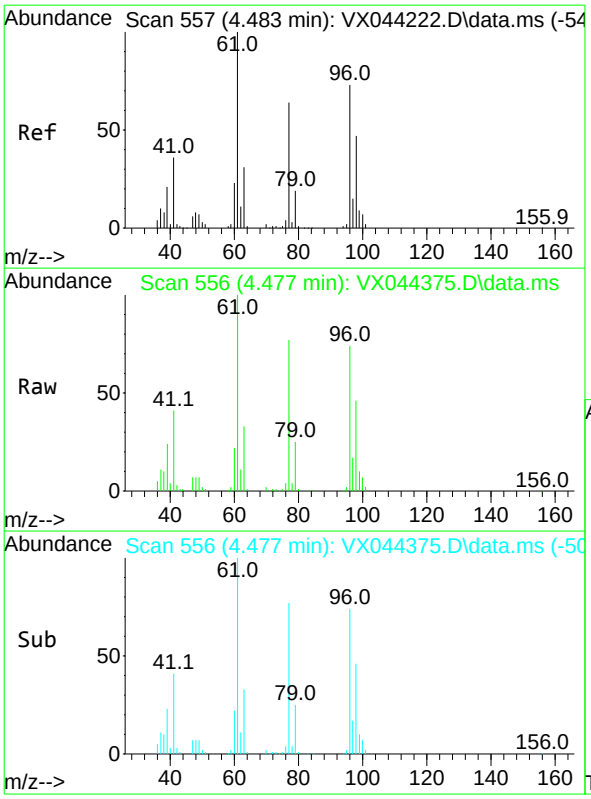


#26
2,2-Dichloropropane
Concen: 52.773 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 77 Resp: 145905

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.7	32.1

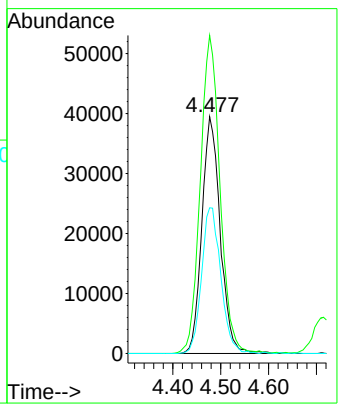




#27
cis-1,2-Dichloroethene
Concen: 47.800 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 96 Resp: 105020

Ion	Ratio	Lower	Upper
96	100		
61	144.4	0.0	299.0
98	64.6	0.0	129.0



Instrument :
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ClientSampleId :
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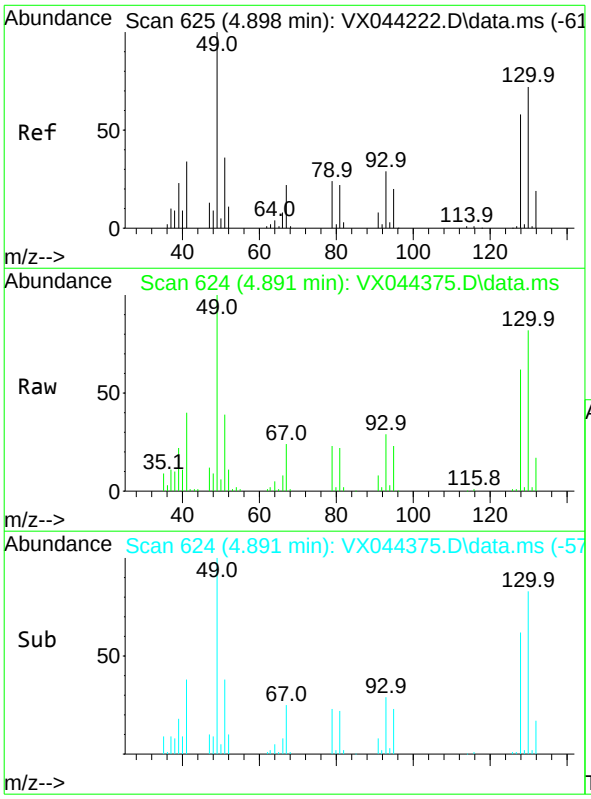
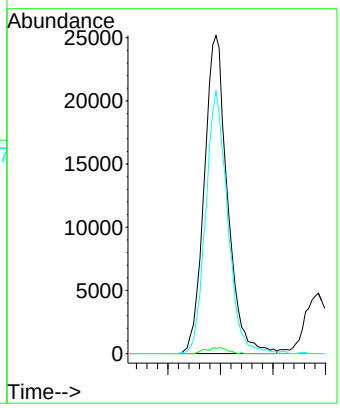
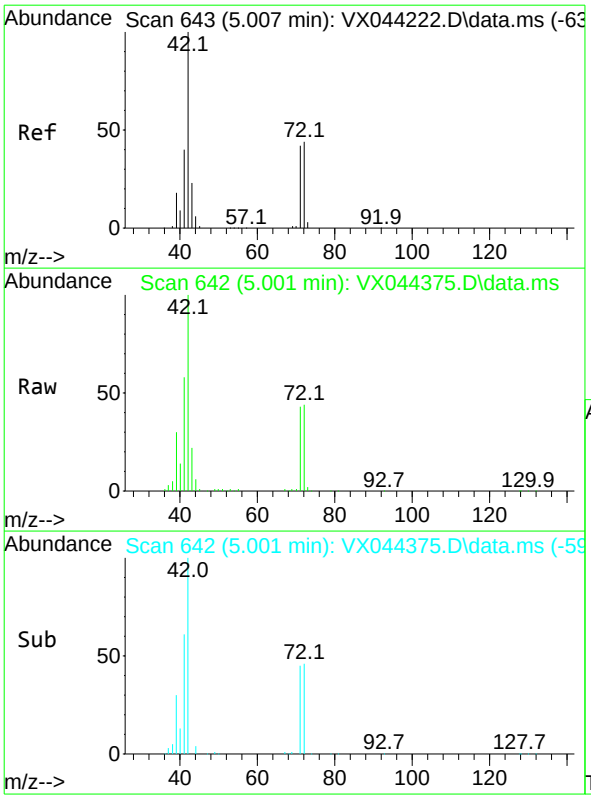


#28
Bromochloromethane
Concen: 46.252 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 49 Resp: 77185

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	78.1	62.1	93.1

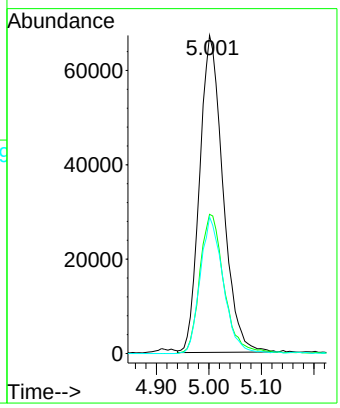




#29
Tetrahydrofuran
Concen: 219.106 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 42 Resp: 207544

Ion	Ratio	Lower	Upper
42	100		
72	45.5	37.0	55.6
71	42.5	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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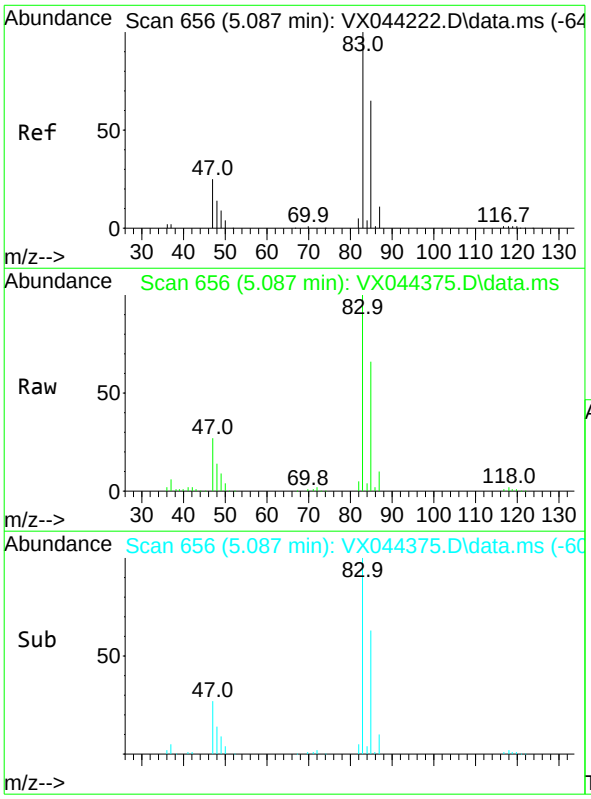
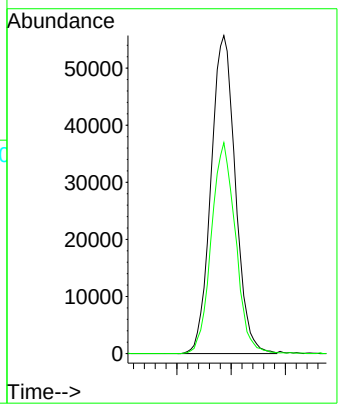
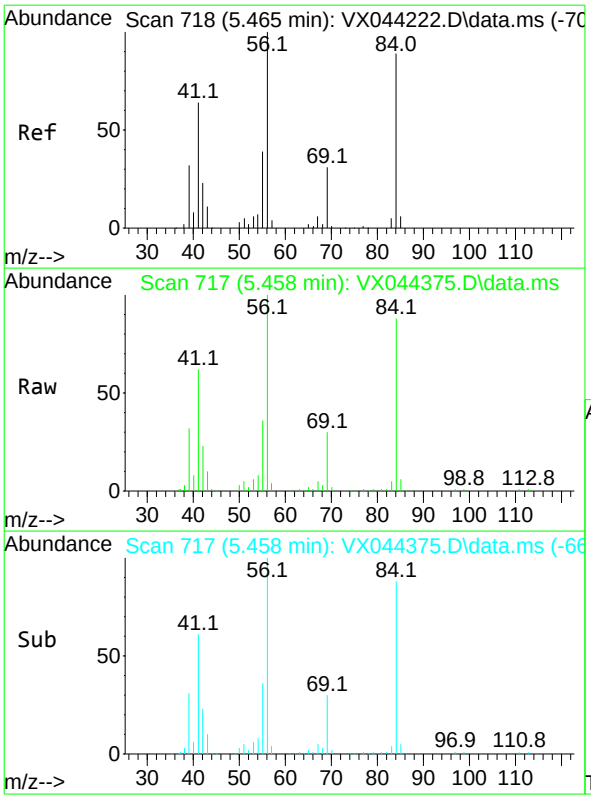


#30
Chloroform
Concen: 45.441 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 83 Resp: 173750

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.6	77.4

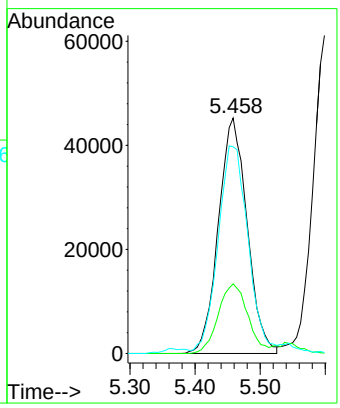




#31
Cyclohexane
Concen: 50.494 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 56 Resp: 138763

Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.7	37.1
84	86.2	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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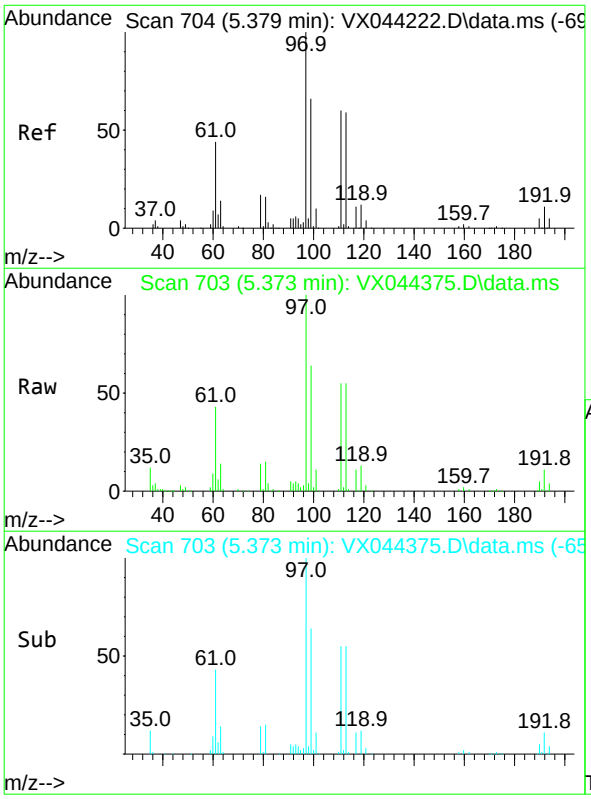
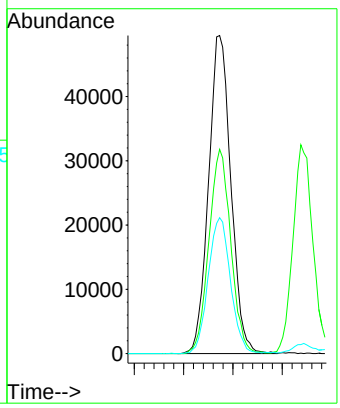
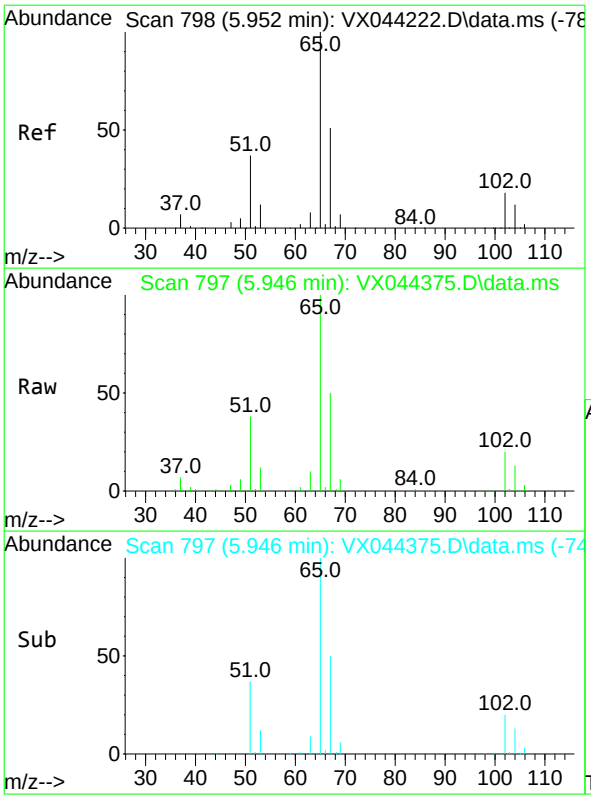


#32
1,1,1-Trichloroethane
Concen: 49.028 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 97 Resp: 155612

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.8	76.2
61	42.7	35.2	52.8

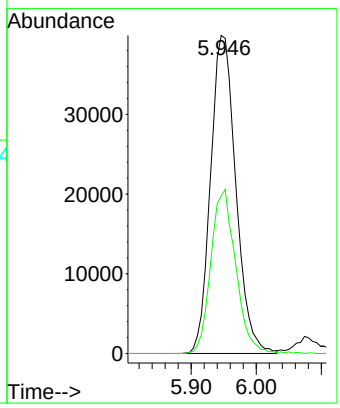




#33
1,2-Dichloroethane-d4
Concen: 42.332 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 65 Resp: 107787

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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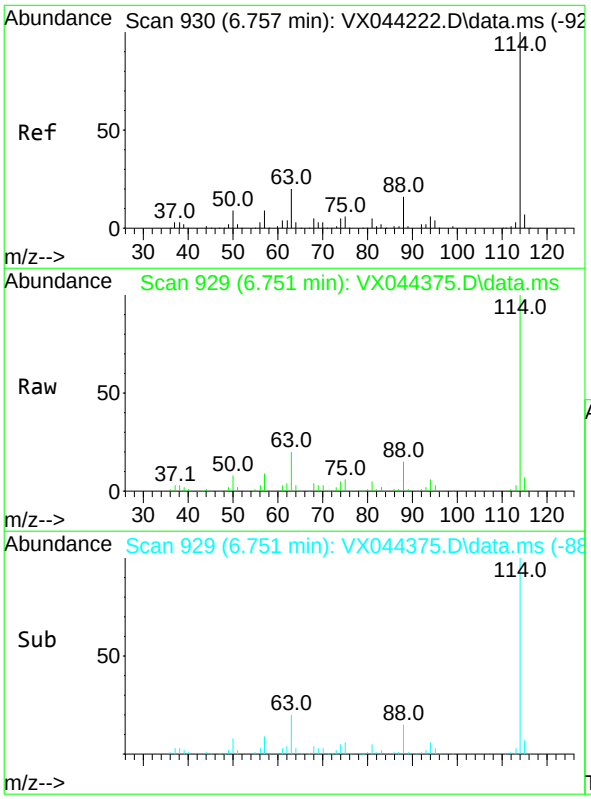
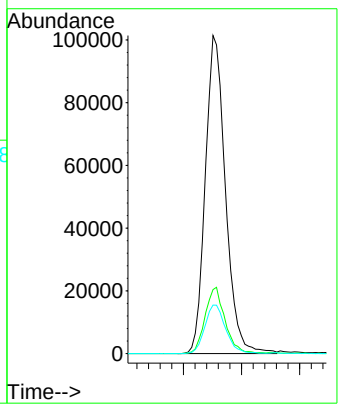
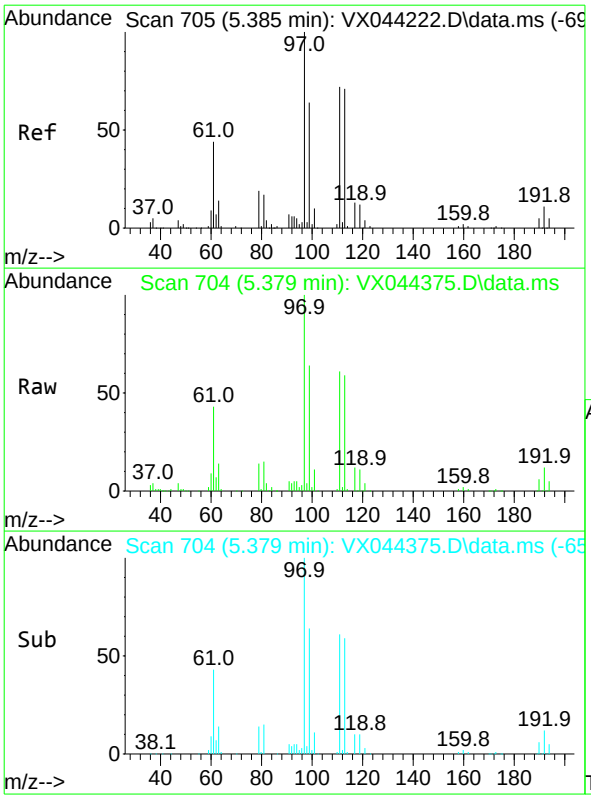


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:114 Resp: 244425

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.6
88	15.3	0.0	31.8

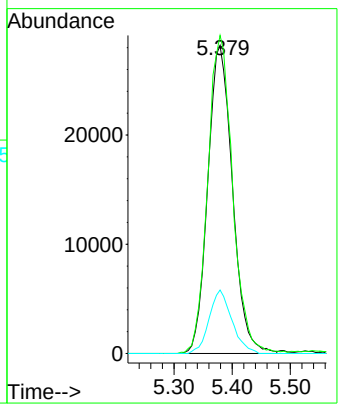




#35
Dibromofluoromethane
Concen: 49.107 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:113 Resp: 83132

Ion	Ratio	Lower	Upper
113	100		
111	103.9	80.4	120.6
192	19.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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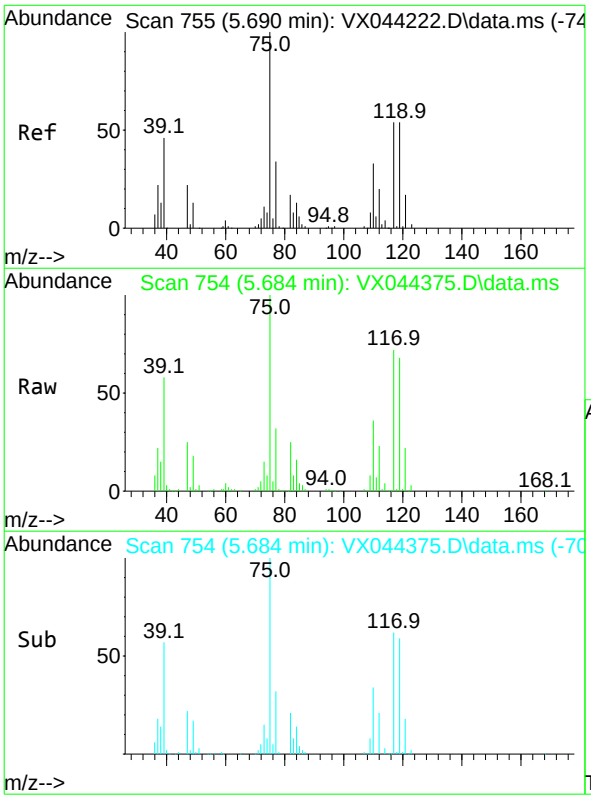
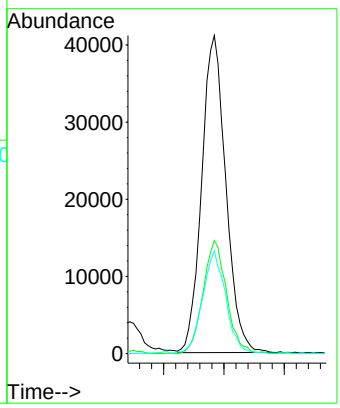
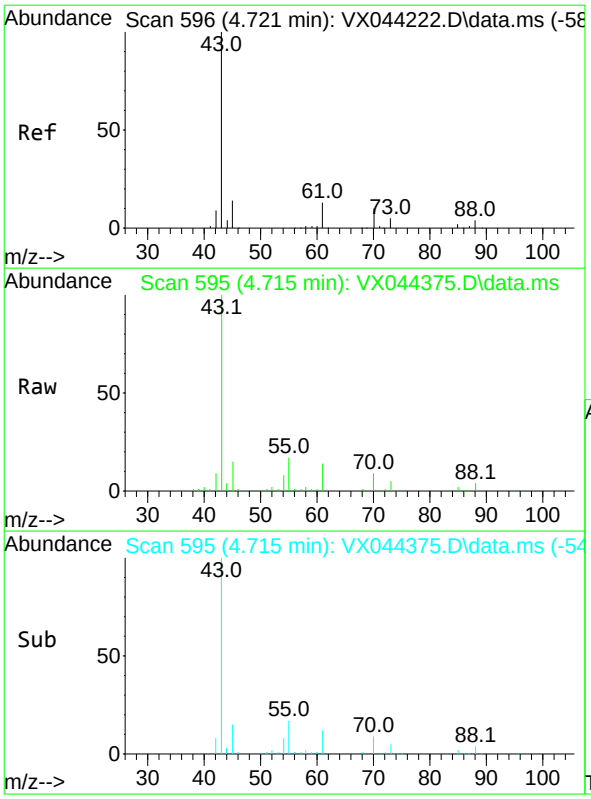


#36
1,1-Dichloropropene
Concen: 52.248 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 114333

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.3	51.7
77	31.2	25.4	38.0

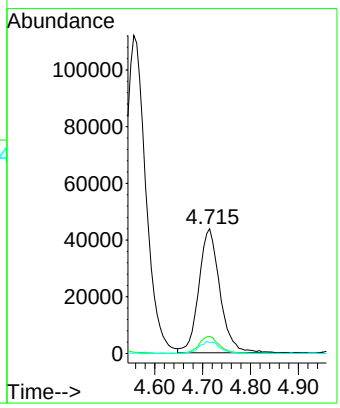




#37
Ethyl Acetate
Concen: 49.494 ug/l
RT: 4.715 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 133879

Ion	Ratio	Lower	Upper
43	100		
61	13.4	9.8	14.8
70	9.3	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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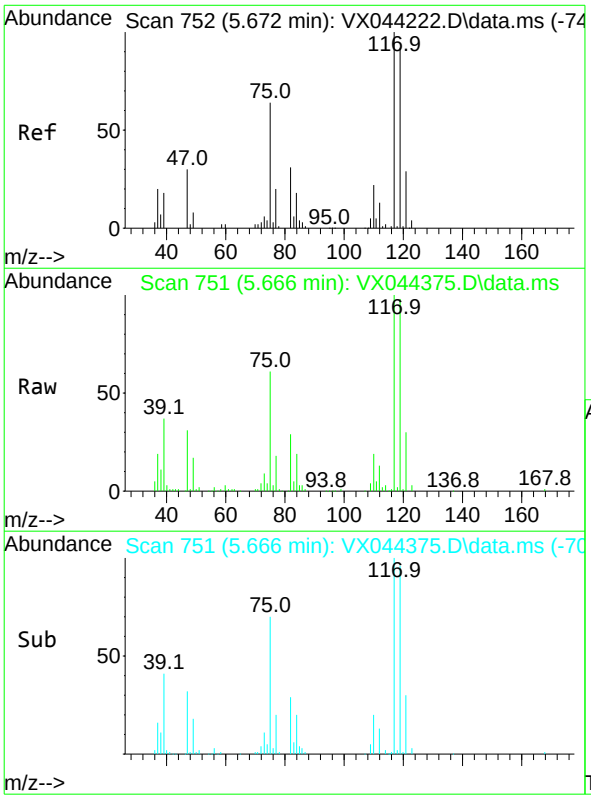
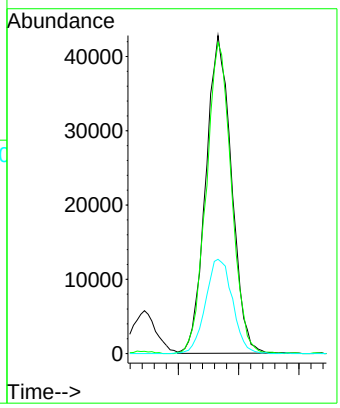
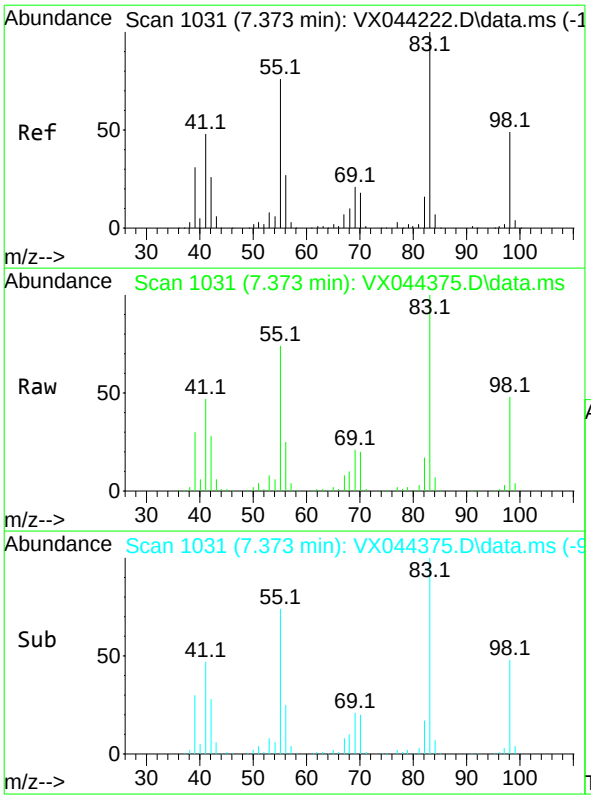


#38
Carbon Tetrachloride
Concen: 53.675 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:117 Resp: 126452

Ion	Ratio	Lower	Upper
117	100		
119	97.8	74.2	111.4
121	29.7	23.0	34.6

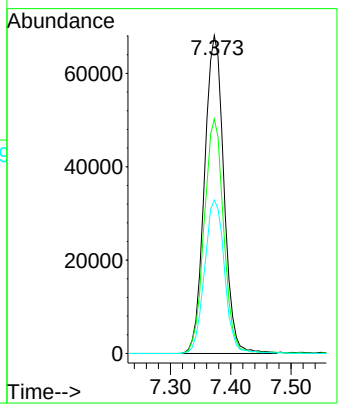




#39
Methylcyclohexane
Concen: 58.275 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 83 Resp: 152449

Ion	Ratio	Lower	Upper
83	100		
55	73.7	60.7	91.1
98	48.3	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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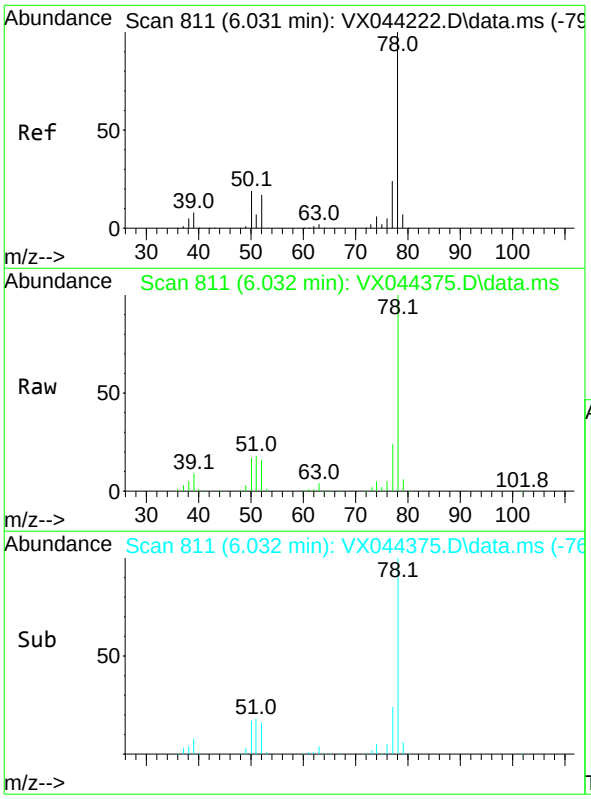
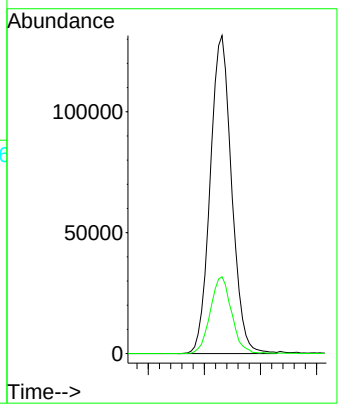
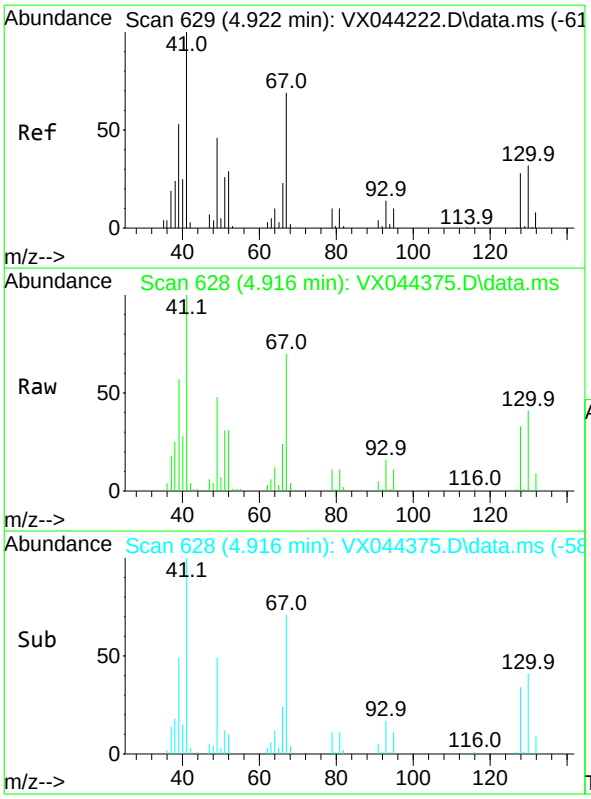


#40
Benzene
Concen: 52.550 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 78 Resp: 349139

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.3	28.9

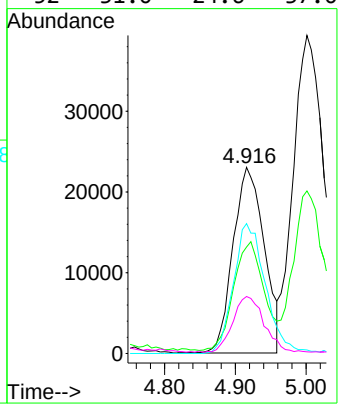




#41
Methacrylonitrile
Concen: 49.080 ug/l
RT: 4.916 min Scan# 62
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 41 Resp: 70496

Ion	Ratio	Lower	Upper
41	100		
39	57.1	44.2	66.4
67	71.8	57.2	85.8
52	31.0	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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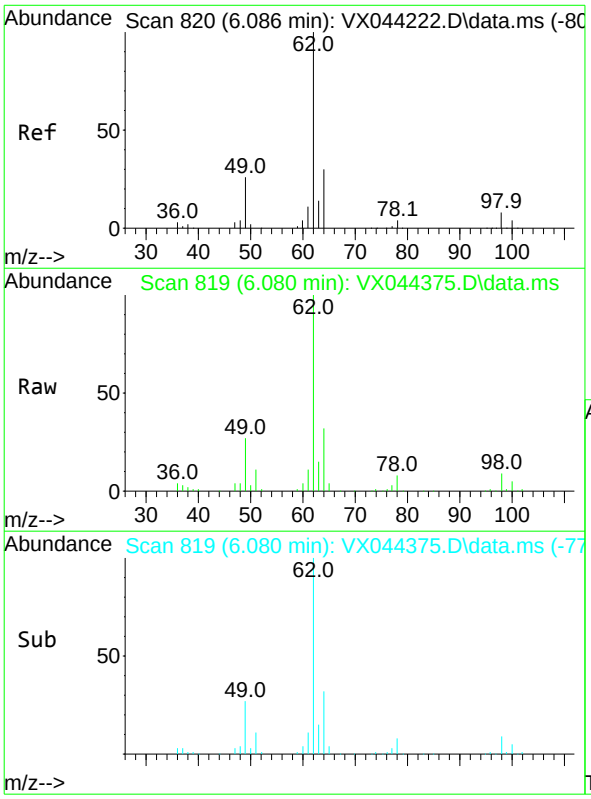
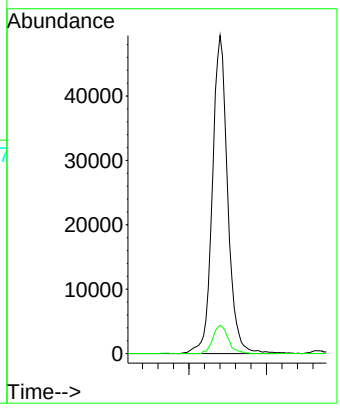
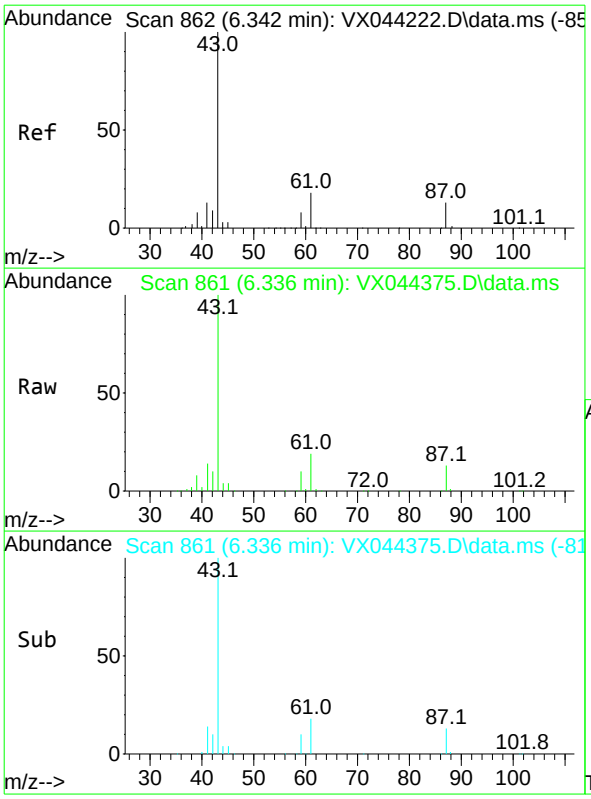


#42
1,2-Dichloroethane
Concen: 49.531 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 62 Resp: 135560

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	15.8

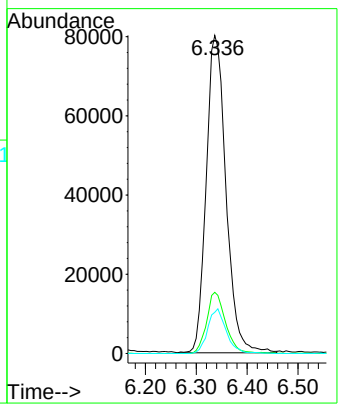




#43
Isopropyl Acetate
Concen: 51.210 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 216506

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.2	21.2
87	13.2	10.2	15.2



Instrument :
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ClientSampleId :
VSTDCCC050

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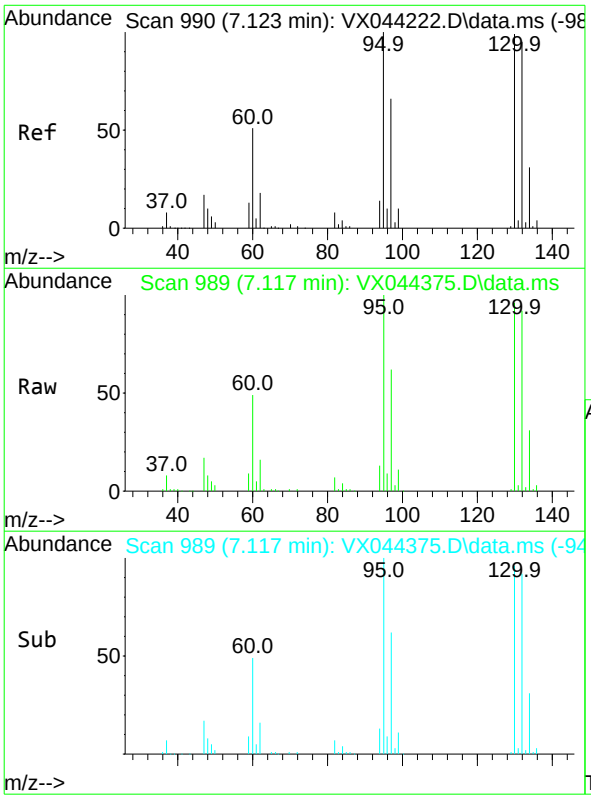
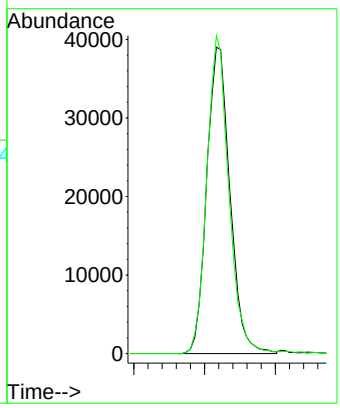
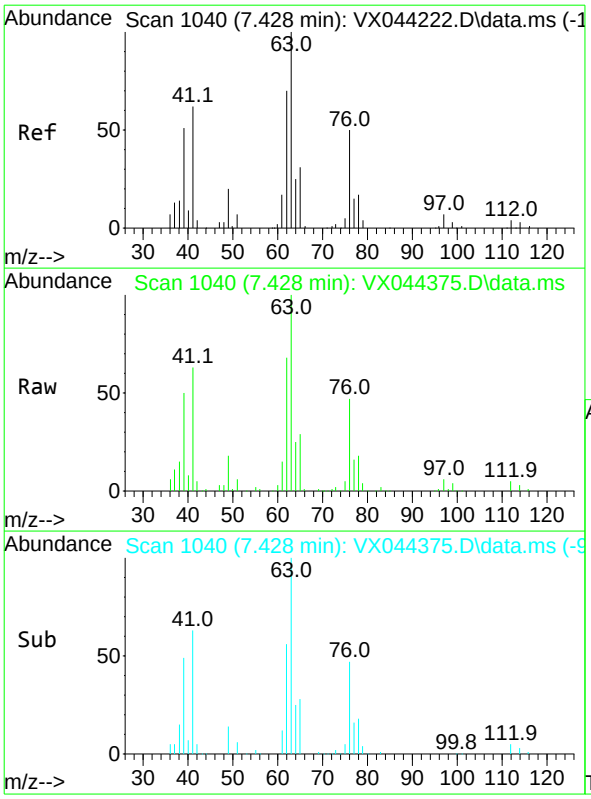


#44
Trichloroethene
Concen: 53.650 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:130 Resp: 88888

Ion	Ratio	Lower	Upper
130	100		
95	103.8	0.0	201.4

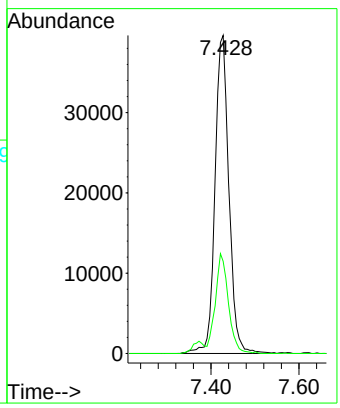




#45
1,2-Dichloropropane
Concen: 51.252 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 63 Resp: 86995

Ion	Ratio	Lower	Upper
63	100		
65	29.0	24.6	37.0



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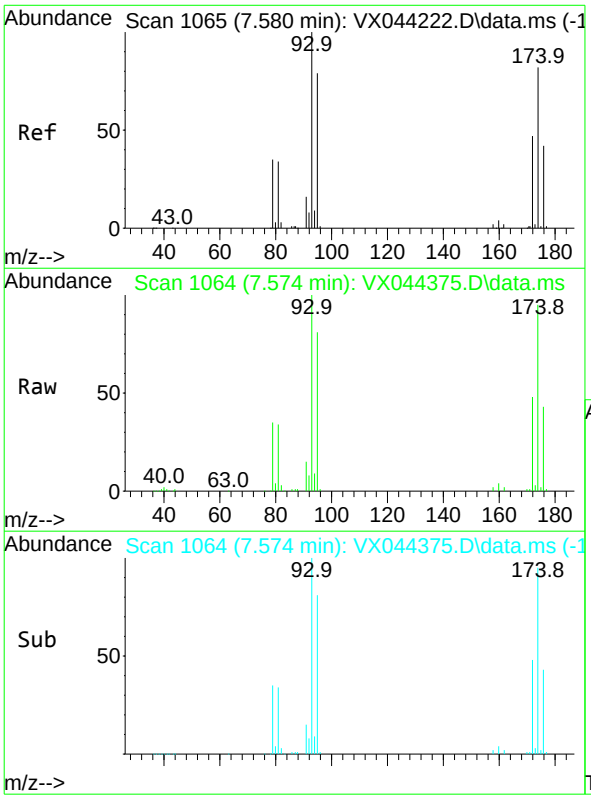
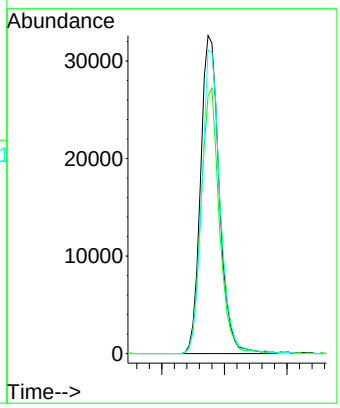
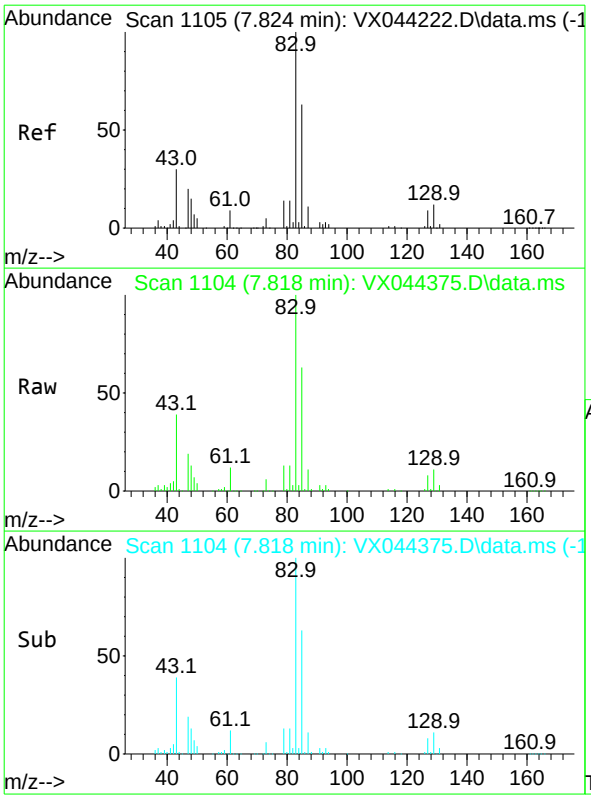


#46
Dibromomethane
Concen: 51.538 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 93 Resp: 67868

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.4	98.2
174	93.0	67.9	101.9

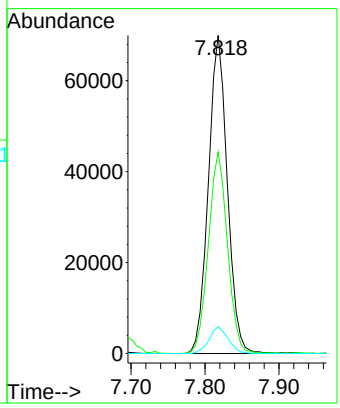




#47
Bromodichloromethane
Concen: 54.647 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 83 Resp: 124282

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.6	75.8
127	8.4	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
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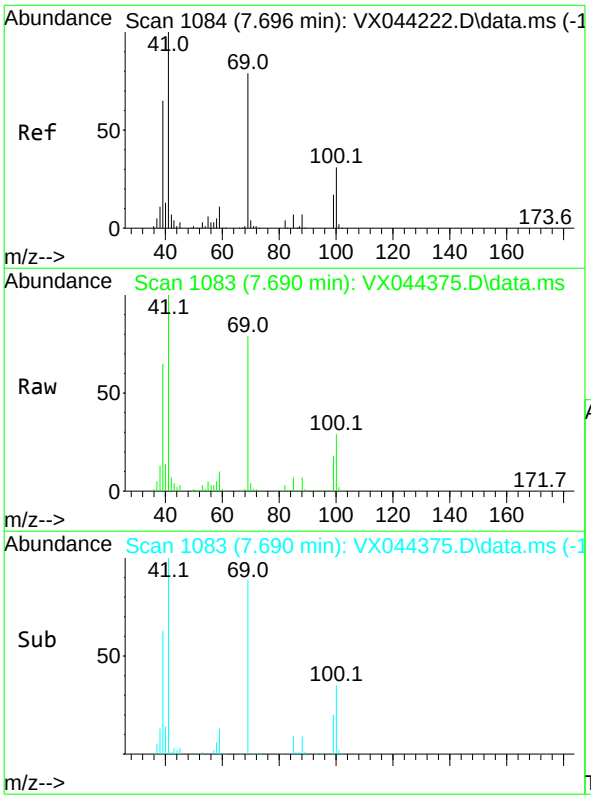
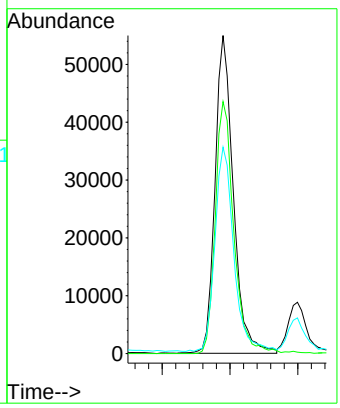
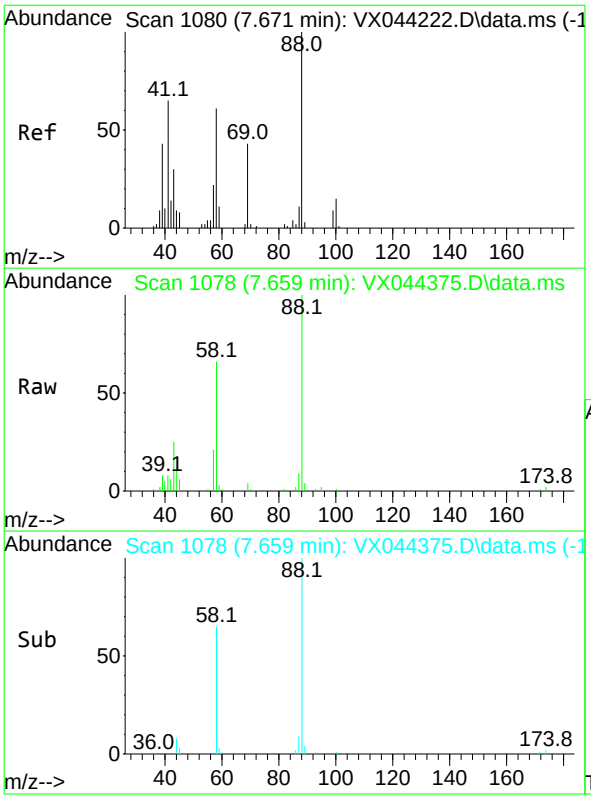


#48
Methyl methacrylate
Concen: 50.124 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 41 Resp: 102868

Ion	Ratio	Lower	Upper
41	100		
69	80.4	62.4	93.6
39	66.0	53.3	79.9

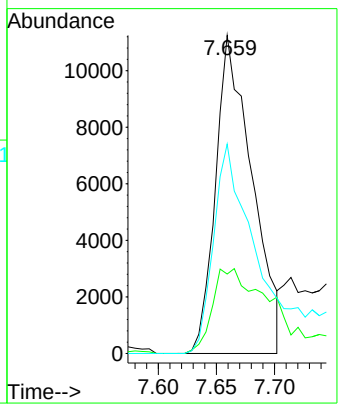




#49
1,4-Dioxane
Concen: 724.793 ug/l
RT: 7.659 min Scan# 10
Delta R.T. -0.012 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 88 Resp: 24662

Ion	Ratio	Lower	Upper
88	100		
43	42.4	27.1	40.7#
58	77.6	41.0	61.4#



Instrument :
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ClientSampleId :
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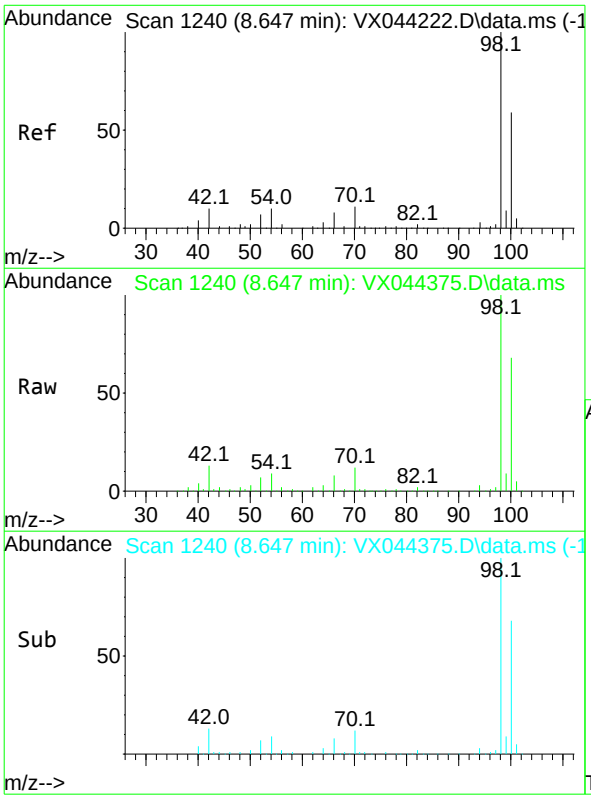
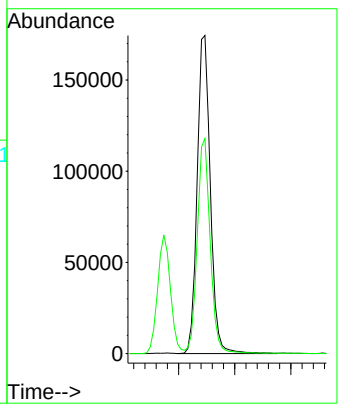
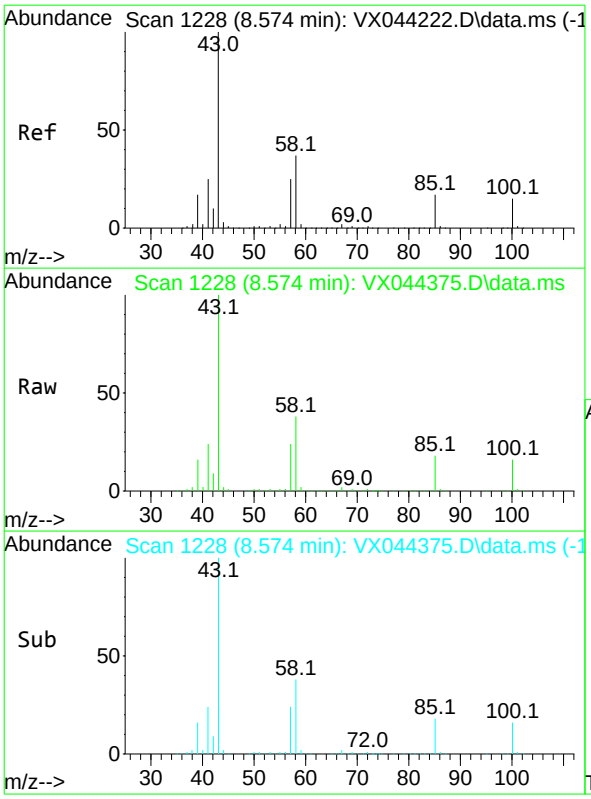


#50
Toluene-d8
Concen: 49.811 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 98 Resp: 284482

Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.5	77.3

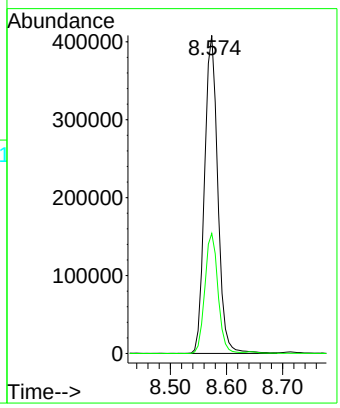




#51
4-Methyl-2-Pentanone
Concen: 245.442 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 667207

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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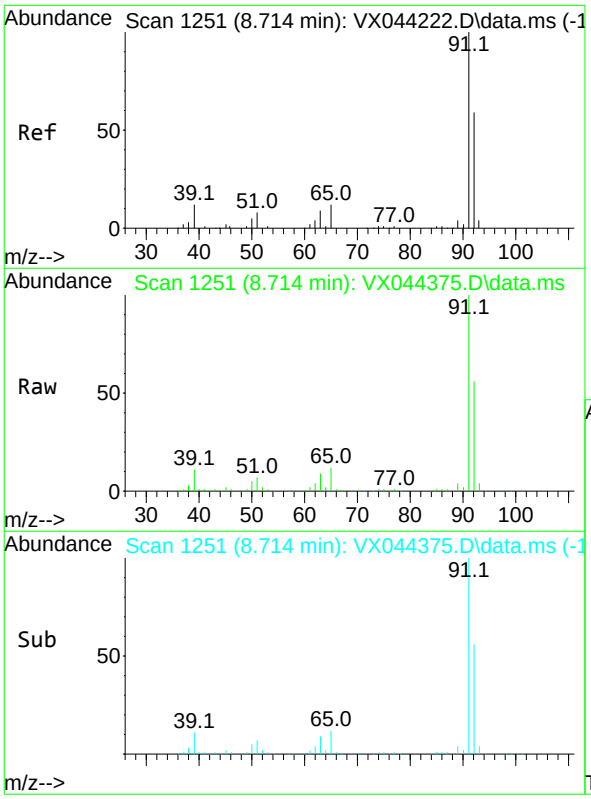
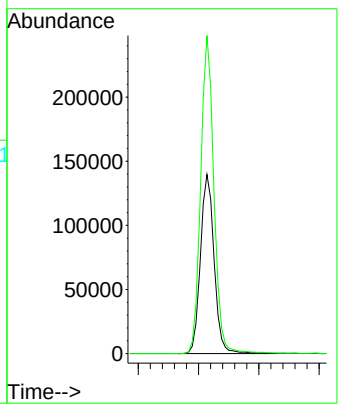
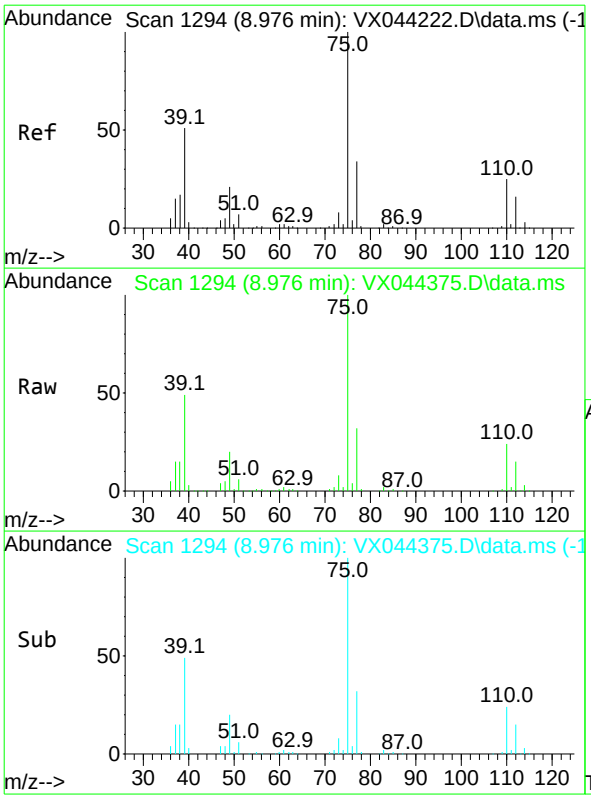


#52
Toluene
Concen: 52.735 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 92 Resp: 220021

Ion	Ratio	Lower	Upper
92	100		
91	172.0	137.0	205.6

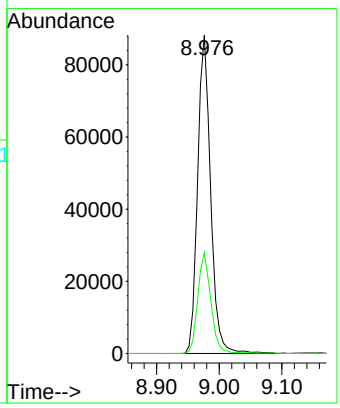




#53
t-1,3-Dichloropropene
Concen: 52.027 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 127372

Ion	Ratio	Lower	Upper
75	100		
77	31.7	27.2	40.8



Instrument :
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ClientSampleId :
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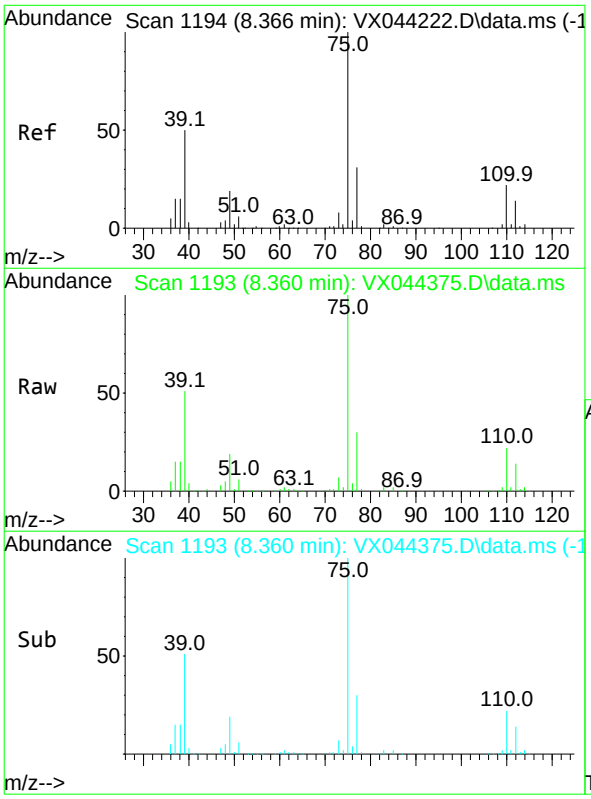
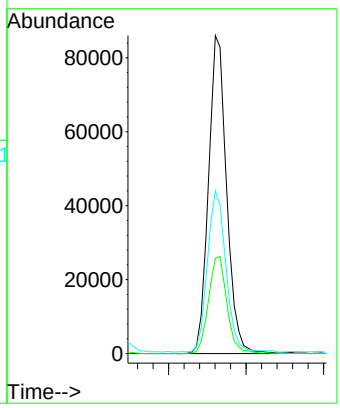
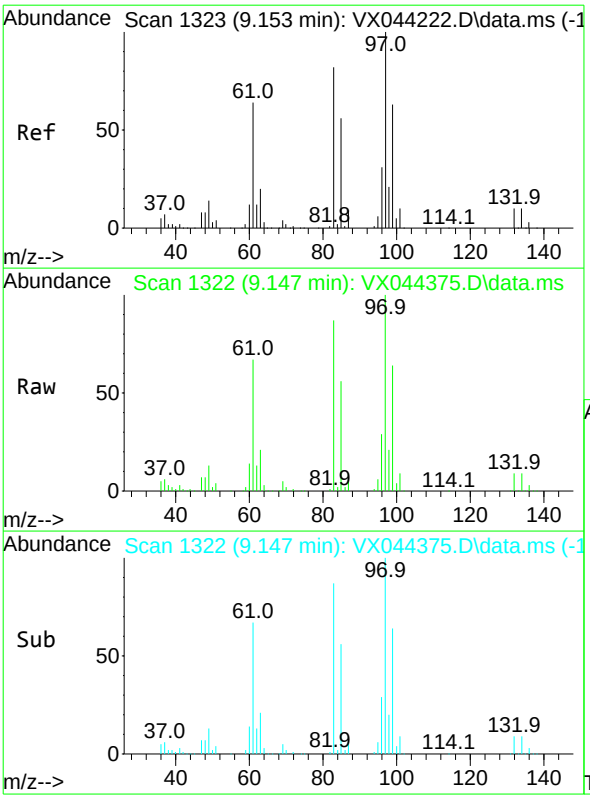


#54
cis-1,3-Dichloropropene
Concen: 56.385 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 139627

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.7	37.1
39	50.7	40.3	60.5

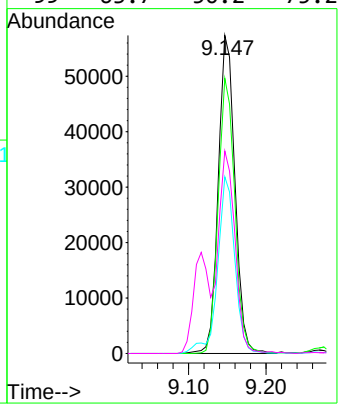




#55
1,1,2-Trichloroethane
Concen: 51.812 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 97 Resp: 85878

Ion	Ratio	Lower	Upper
97	100		
83	86.5	65.3	97.9
85	55.5	44.6	67.0
99	63.7	50.2	75.2



Instrument :
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ClientSampleId :
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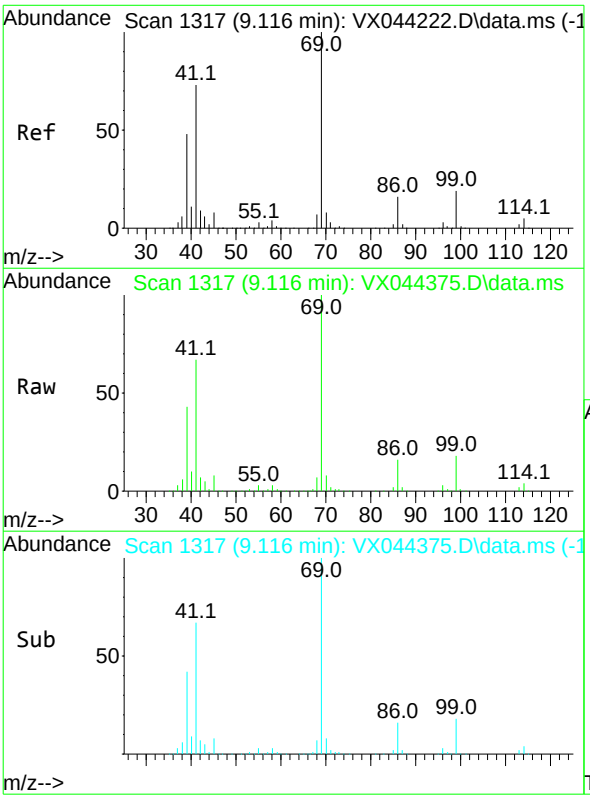
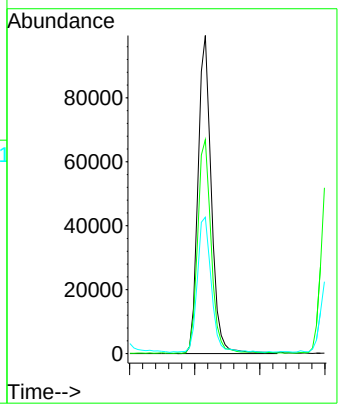
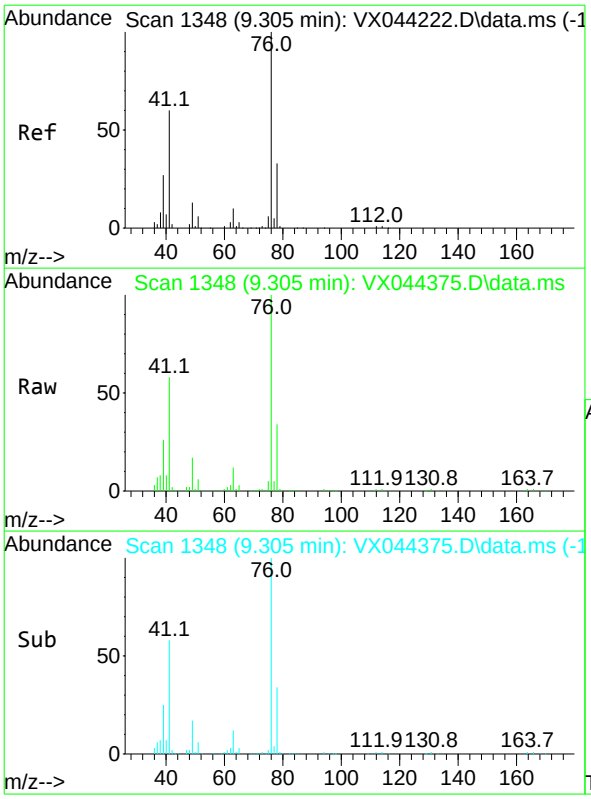


#56
Ethyl methacrylate
Concen: 53.914 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 69 Resp: 141073

Ion	Ratio	Lower	Upper
69	100		
41	68.4	56.6	85.0
39	44.6	37.4	56.0

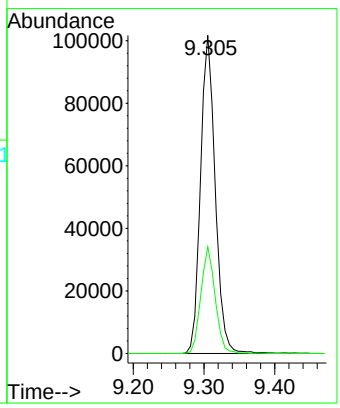




#57
1,3-Dichloropropane
Concen: 50.832 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 76 Resp: 146651

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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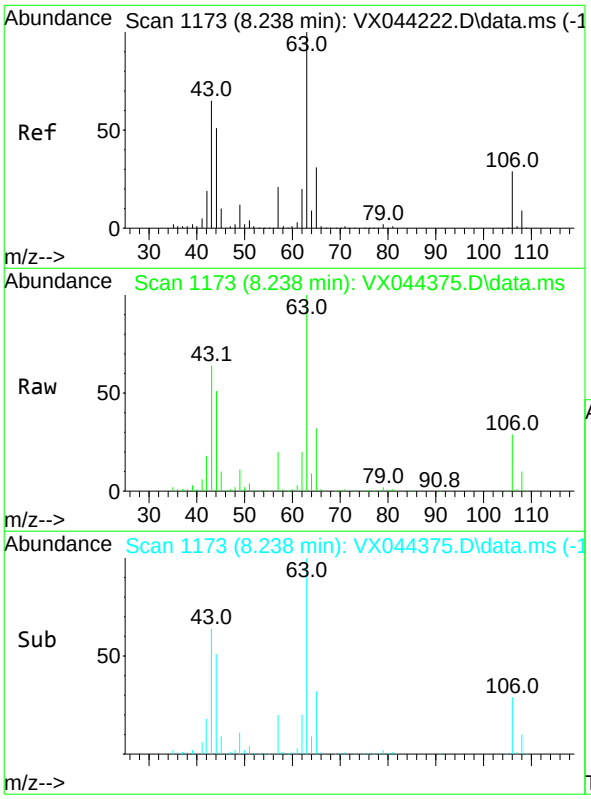
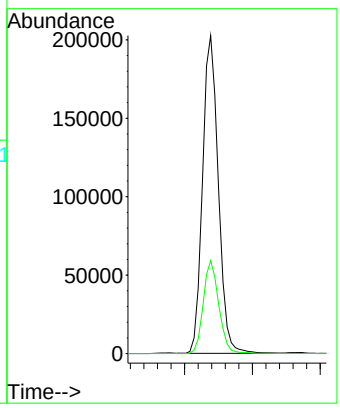
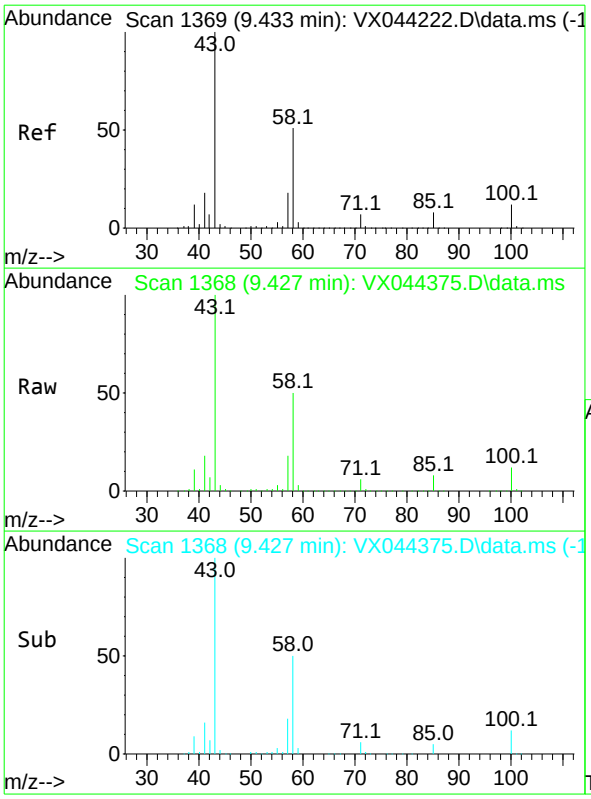


#58
2-Chloroethyl Vinyl ether
Concen: 247.508 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 63 Resp: 326652

Ion	Ratio	Lower	Upper
63	100		
106	28.8	22.8	34.2

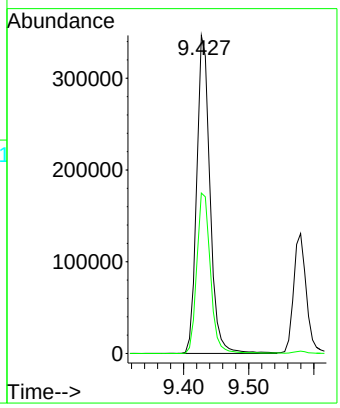




#59
2-Hexanone
Concen: 249.789 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 491495

Ion	Ratio	Lower	Upper
43	100		
58	51.8	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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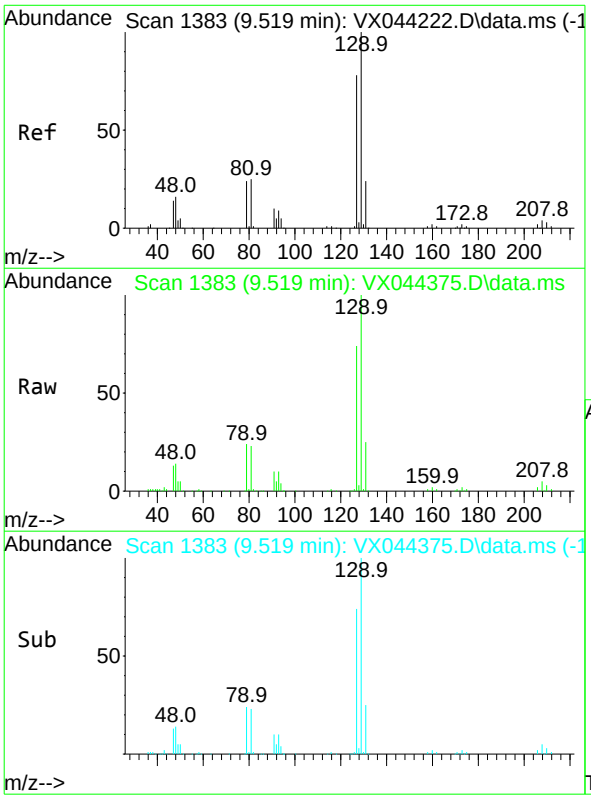
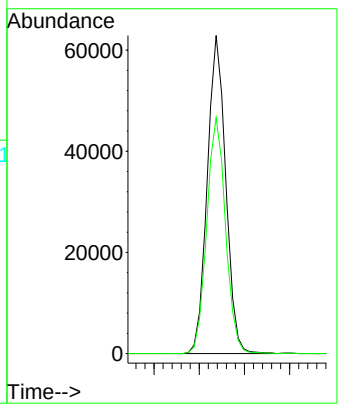
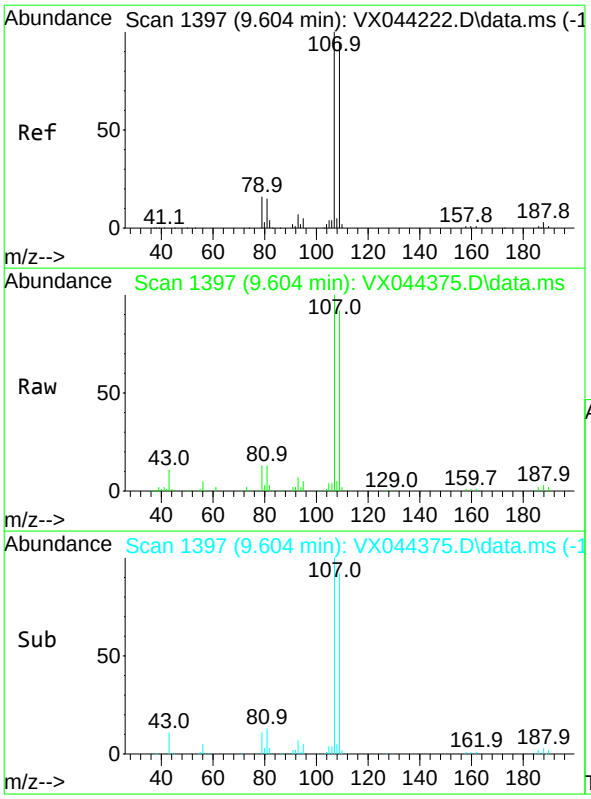


#60
Dibromochloromethane
Concen: 50.794 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:129 Resp: 89257

Ion	Ratio	Lower	Upper
129	100		
127	75.4	38.5	115.3

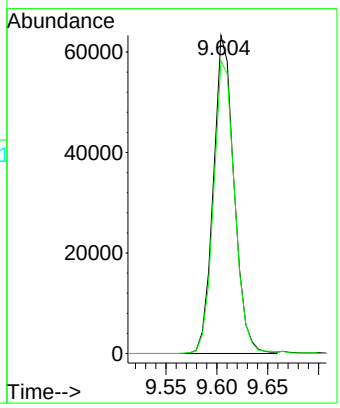




#61
1,2-Dibromoethane
Concen: 52.923 ug/l
RT: 9.604 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:107 Resp: 89289

Ion	Ratio	Lower	Upper
107	100		
109	94.4	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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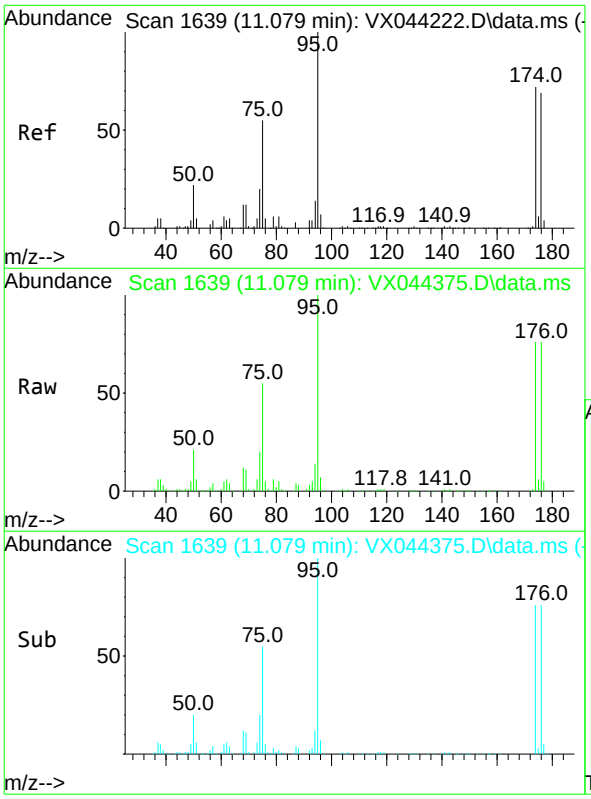
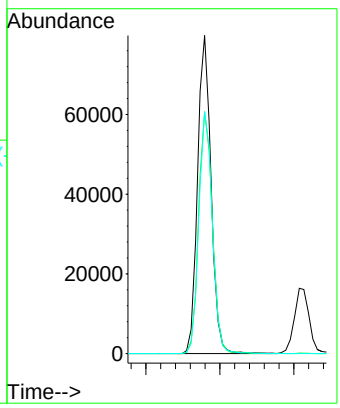
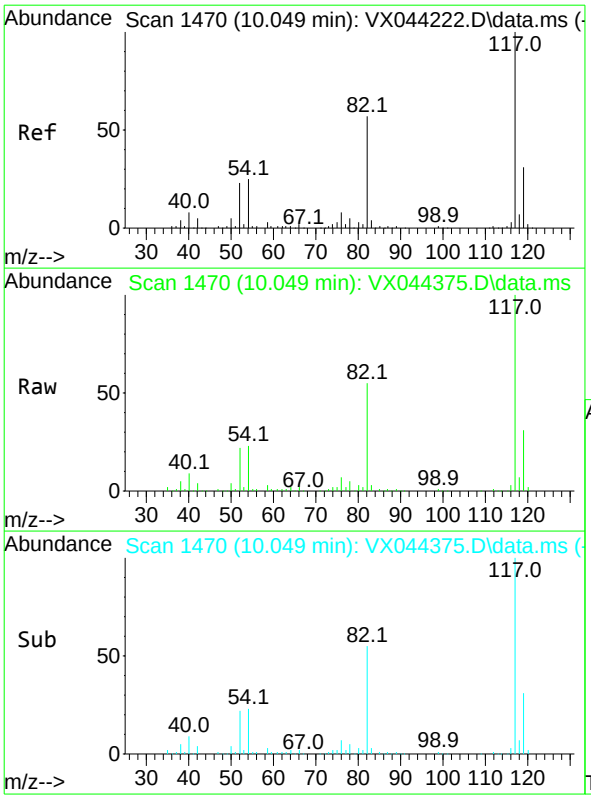


#62
4-Bromofluorobenzene
Concen: 50.645 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 95 Resp: 101069

Ion	Ratio	Lower	Upper
95	100		
174	77.6	0.0	145.8
176	76.3	0.0	137.8

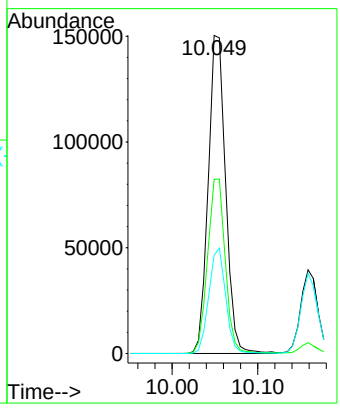




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:117 Resp: 212426

Ion	Ratio	Lower	Upper
117	100		
82	54.8	45.8	68.8
119	30.9	25.0	37.4



Instrument :
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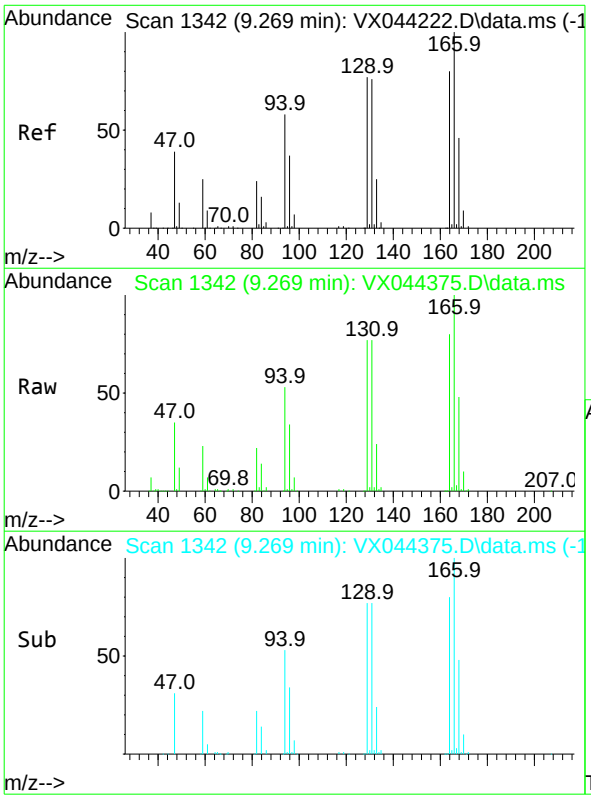
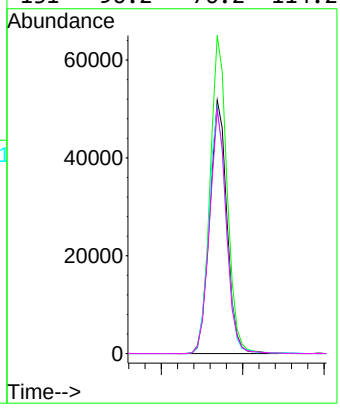
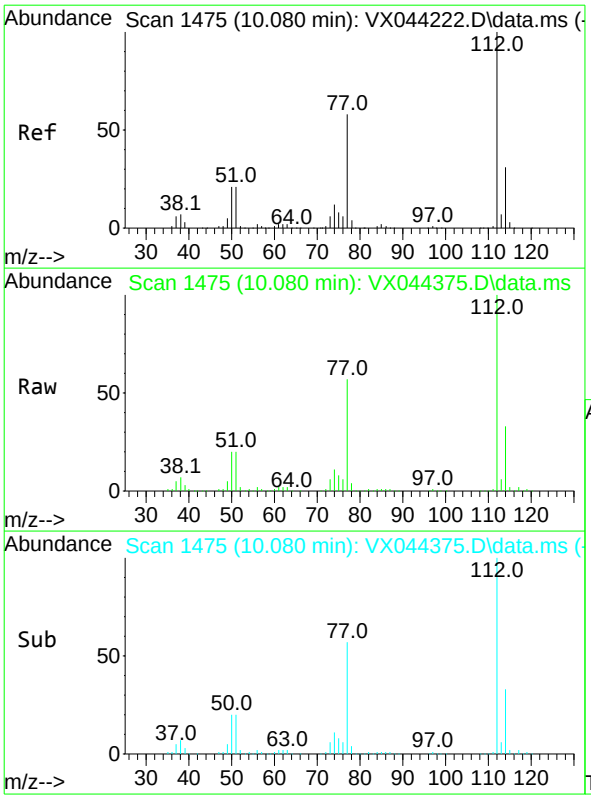


#64
Tetrachloroethene
Concen: 54.001 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:164 Resp: 76137

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	97.2	77.2	115.8
131	96.2	76.2	114.2

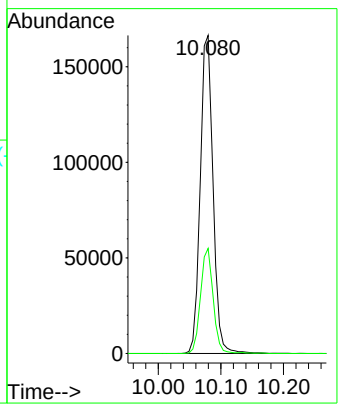




#65
Chlorobenzene
Concen: 51.858 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:112 Resp: 236050

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.0	37.6



Instrument :
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ClientSampleId :
VSTDCCC050

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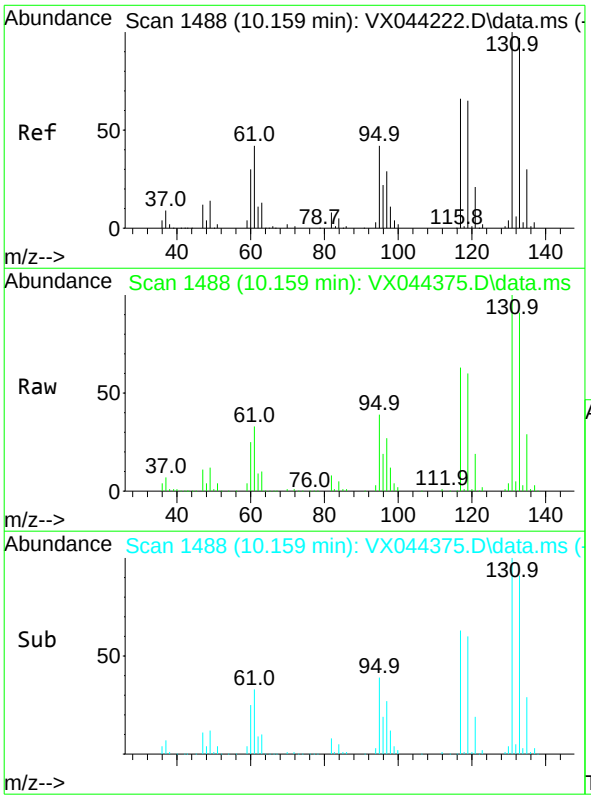
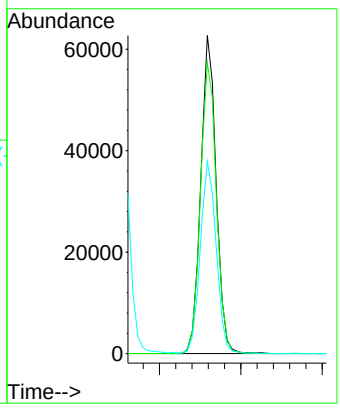
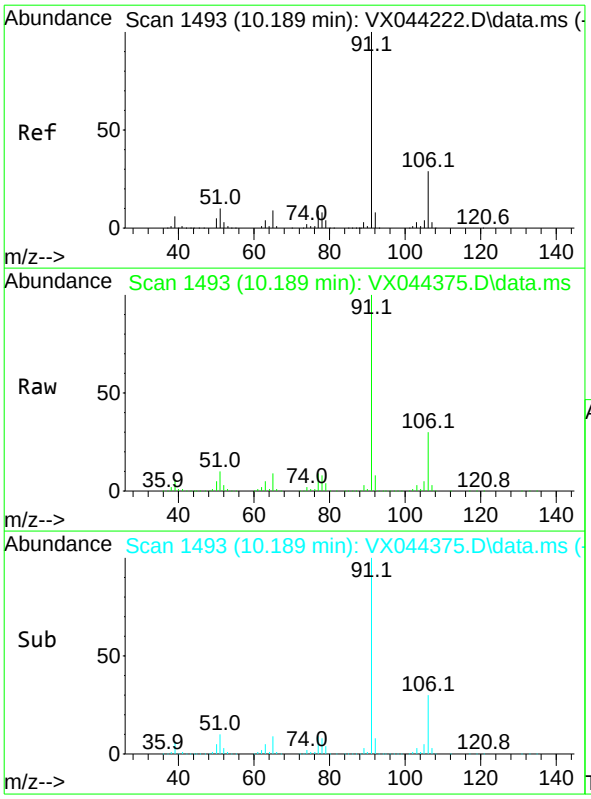


#66
1,1,1,2-Tetrachloroethane
Concen: 56.077 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:131 Resp: 82035

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.8
119	62.7	31.6	95.0

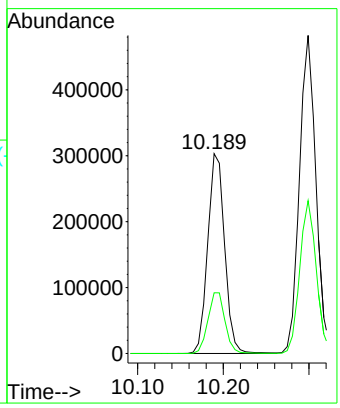




#67
Ethyl Benzene
Concen: 52.803 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 91 Resp: 415285

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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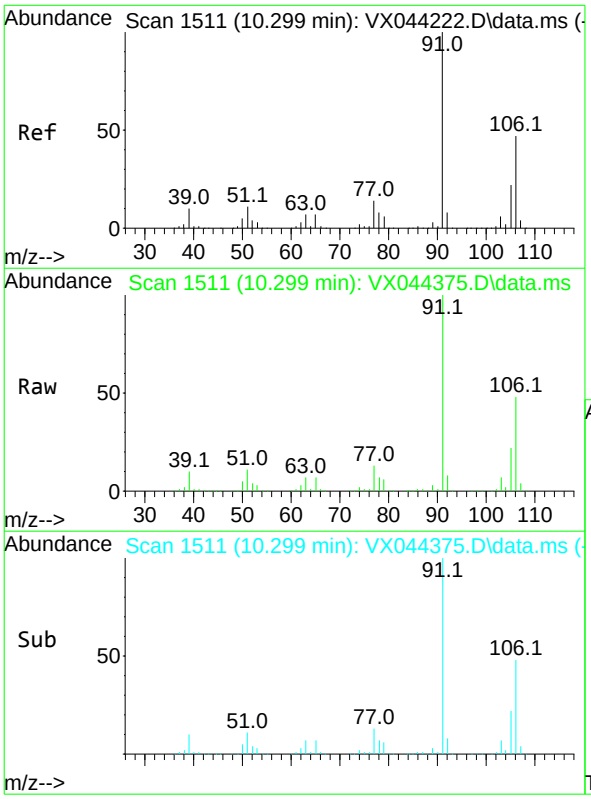
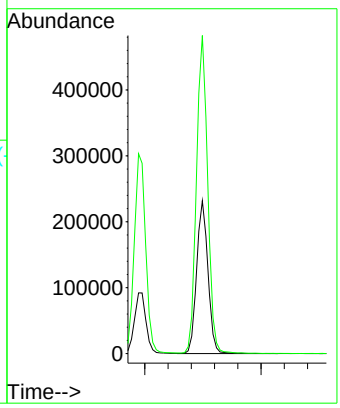
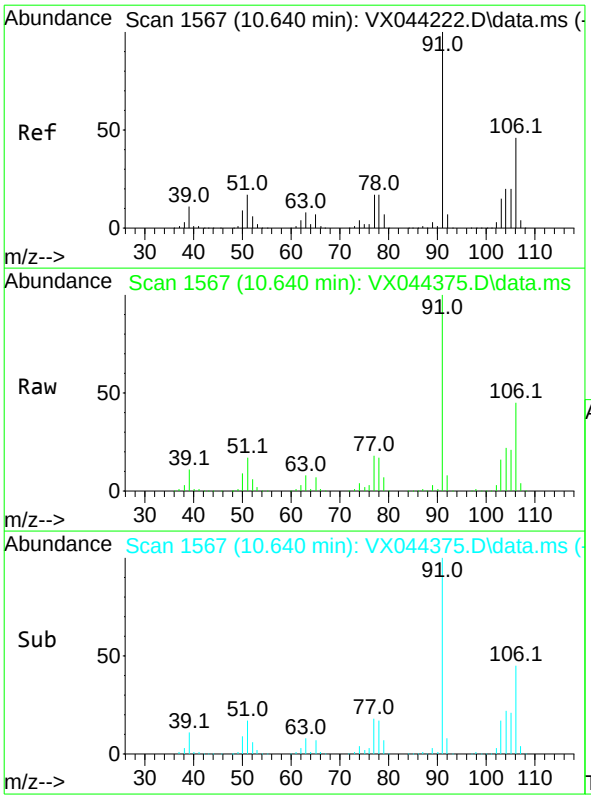


#68
m/p-Xylenes
Concen: 108.454 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:106 Resp: 312989

Ion	Ratio	Lower	Upper
106	100		
91	206.3	170.2	255.2

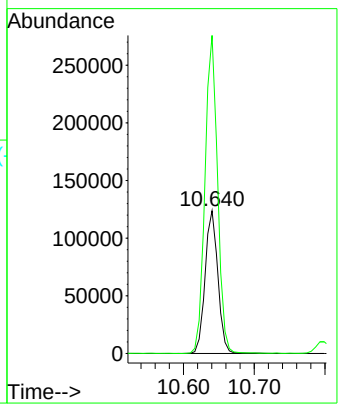




#69
o-Xylene
Concen: 53.206 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:106 Resp: 155361

Ion	Ratio	Lower	Upper
106	100		
91	219.5	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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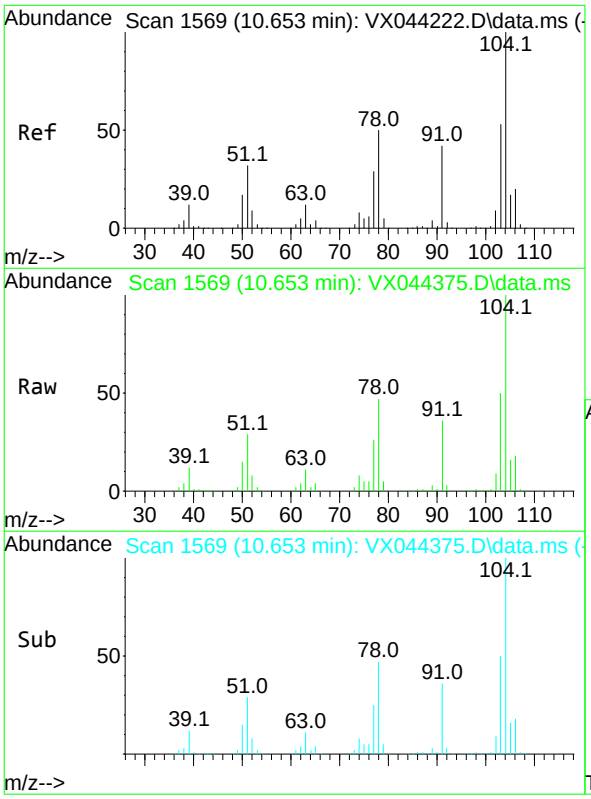
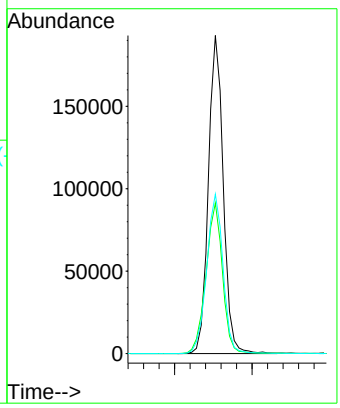
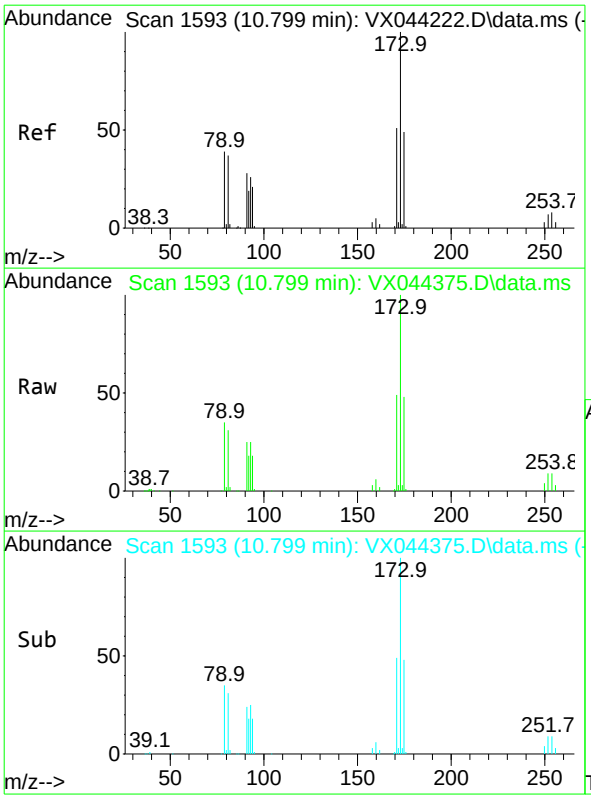


#70
Styrene
Concen: 54.912 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:104 Resp: 257040

Ion	Ratio	Lower	Upper
104	100		
78	52.7	44.6	67.0
103	55.4	45.4	68.0

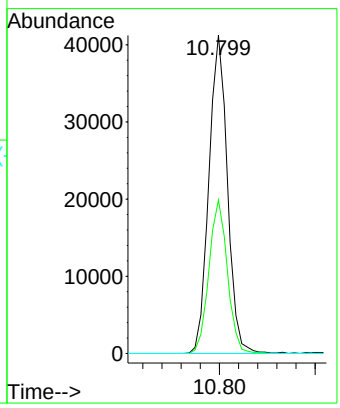




#71
Bromoform
Concen: 53.638 ug/l
RT: 10.799 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:173 Resp: 55350

Ion	Ratio	Lower	Upper
173	100		
175	48.1	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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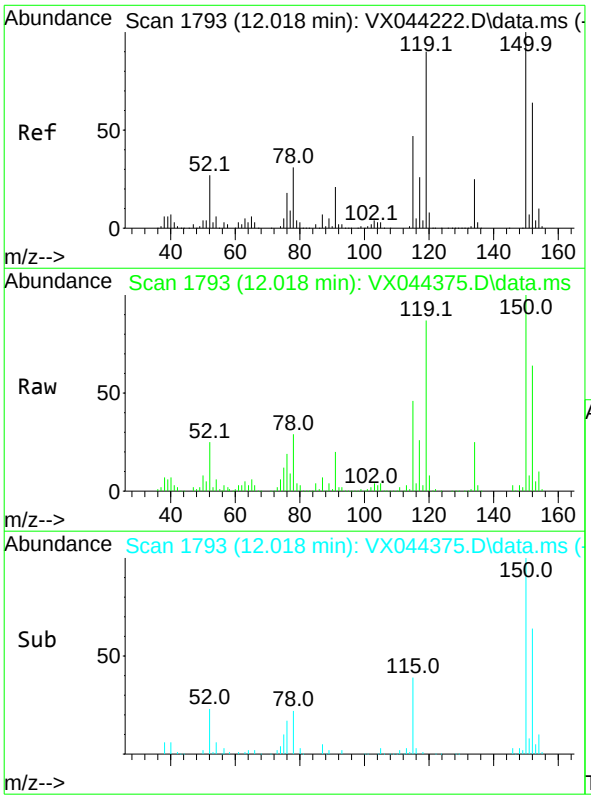
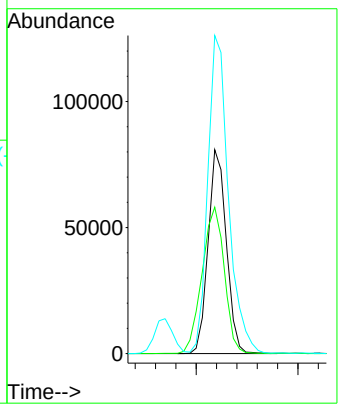
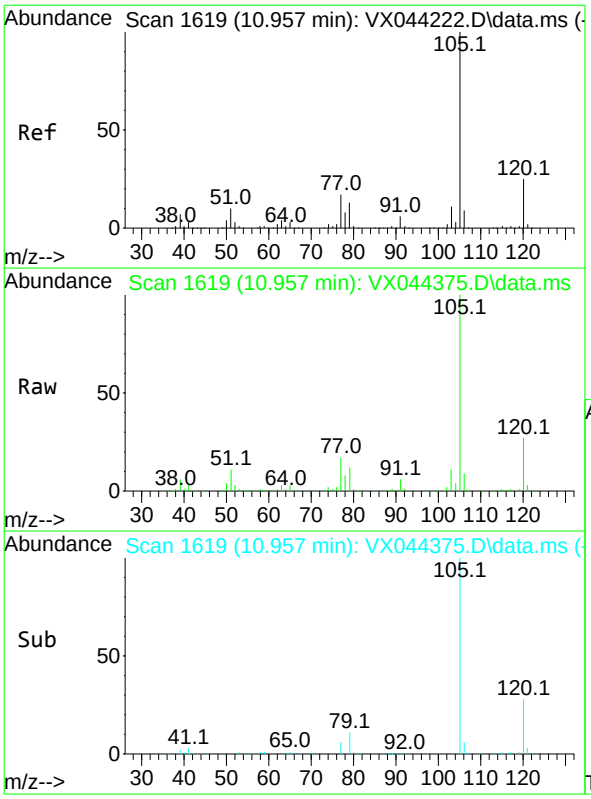


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:152 Resp: 100489

Ion	Ratio	Lower	Upper
152	100		
115	88.0	44.5	133.3
150	176.7	0.0	353.8

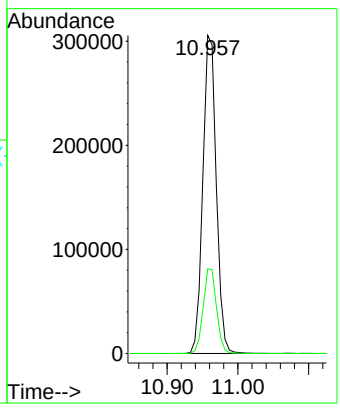




#73
Isopropylbenzene
Concen: 52.392 ug/l
RT: 10.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:105 Resp: 403042

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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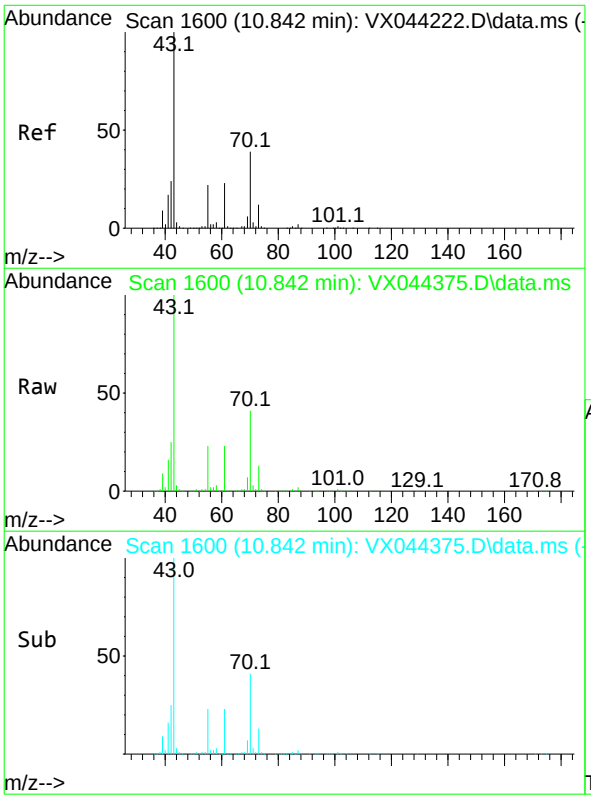
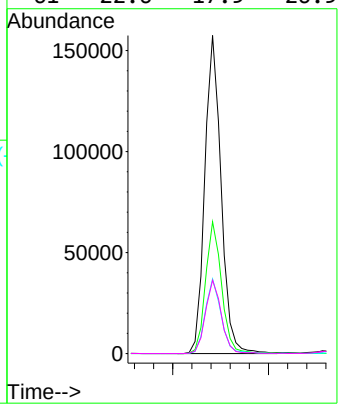
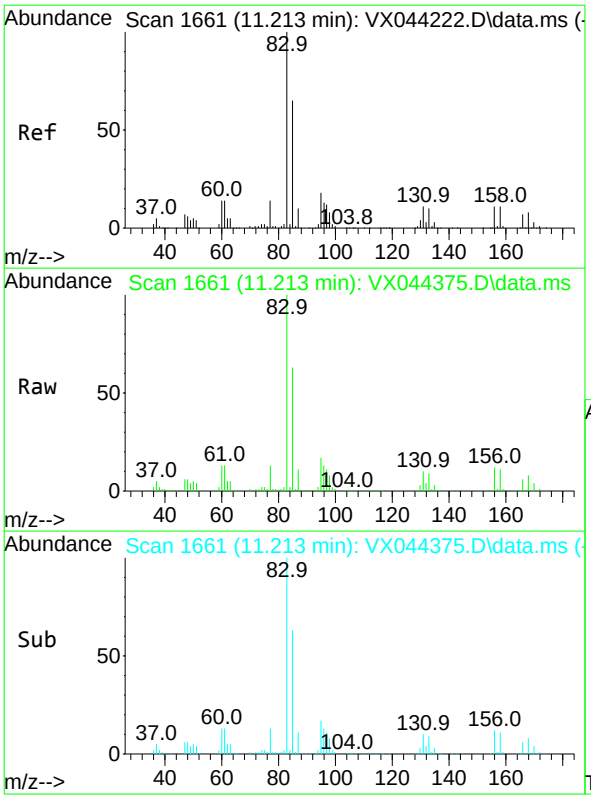


#74
N-amyl acetate
Concen: 52.376 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 186211

Ion	Ratio	Lower	Upper
43	100		
70	41.1	31.9	47.9
55	23.0	17.9	26.9
61	22.6	17.9	26.9

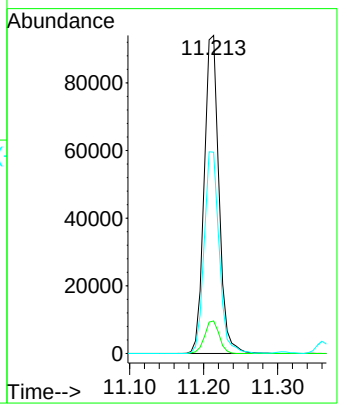




#75
1,1,2,2-Tetrachloroethane
Concen: 48.651 ug/l
RT: 11.213 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 83 Resp: 129995

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	64.6	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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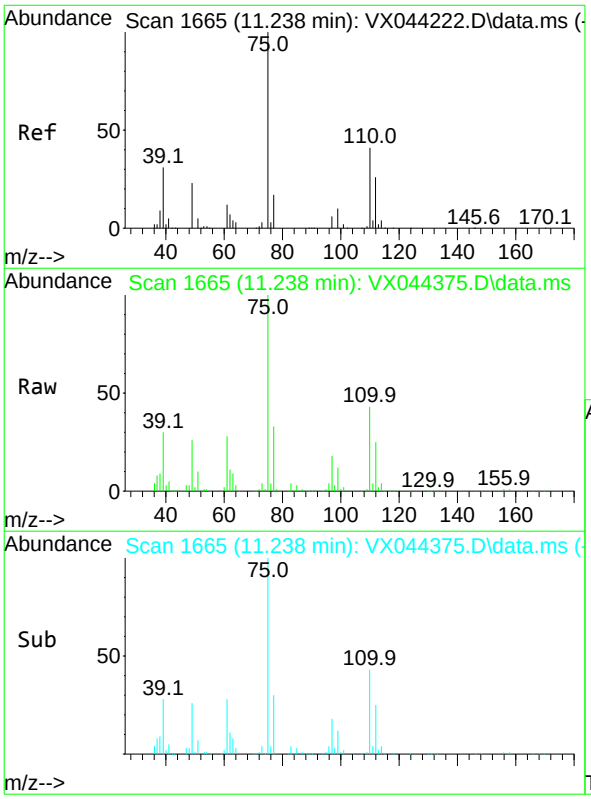
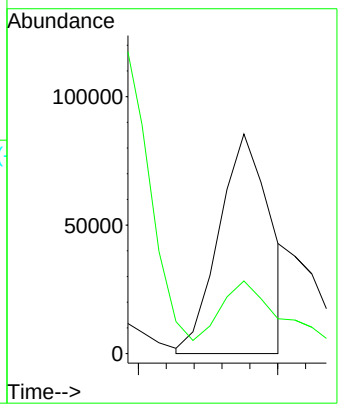
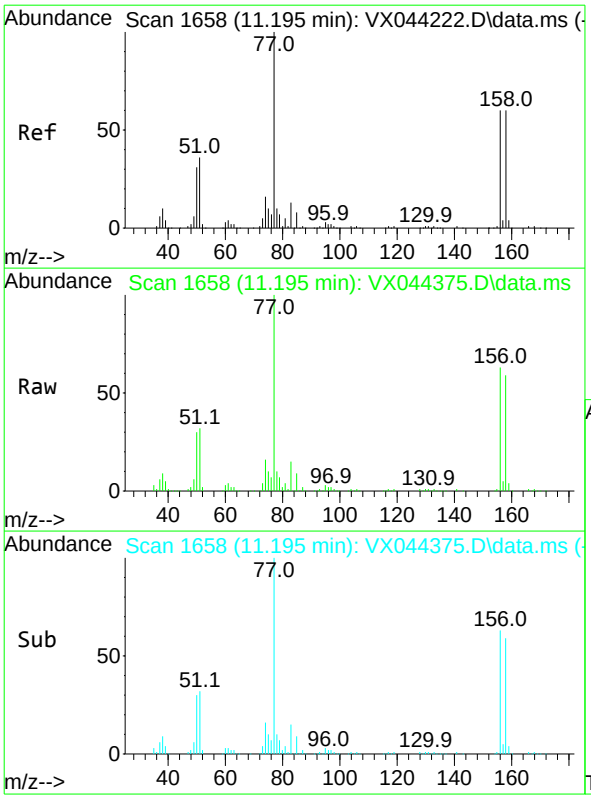


#76
1,2,3-Trichloropropane
Concen: 48.566 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 108966

Ion	Ratio	Lower	Upper
75	100		
77	42.5	20.9	62.7

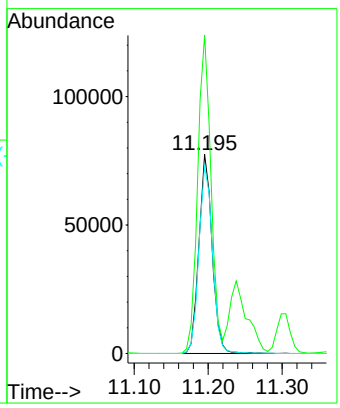




#77
Bromobenzene
Concen: 51.705 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:156 Resp: 96454

Ion	Ratio	Lower	Upper
156	100		
77	161.1	82.6	247.8
158	97.0	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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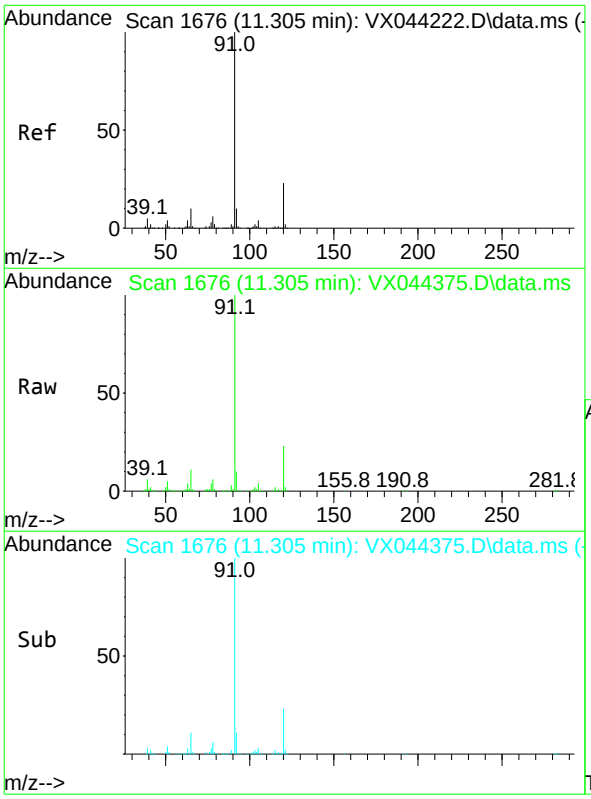
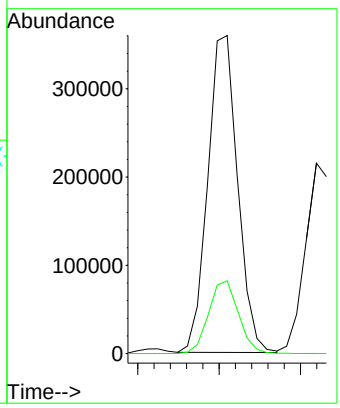
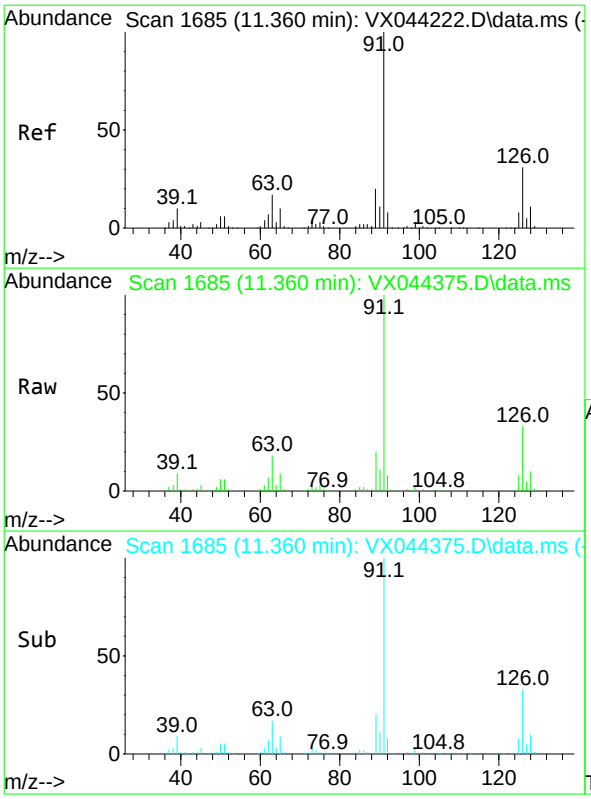


#78
n-propylbenzene
Concen: 53.816 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 91 Resp: 457577

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.0	33.0

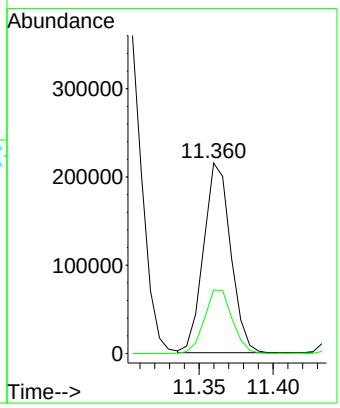




#79
2-Chlorotoluene
Concen: 49.803 ug/l
RT: 11.360 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 91 Resp: 273862

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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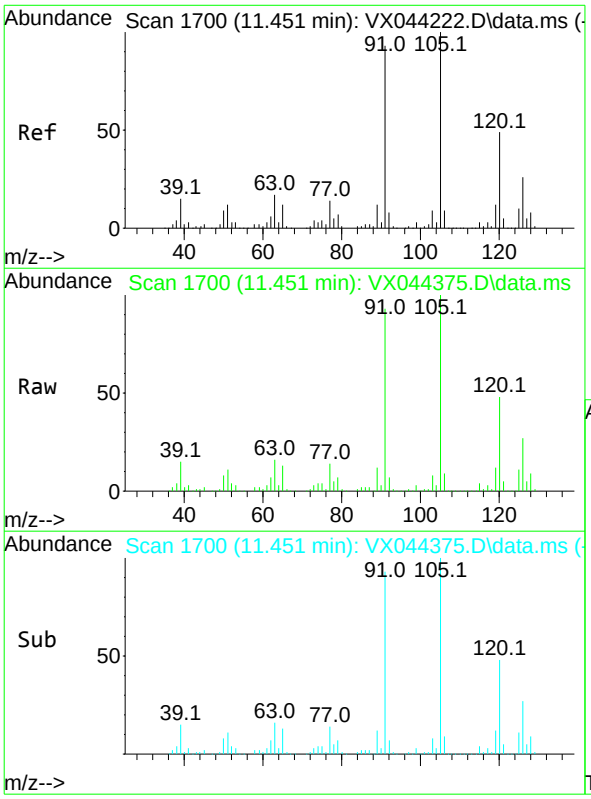
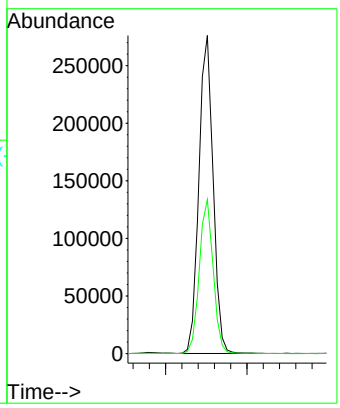
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

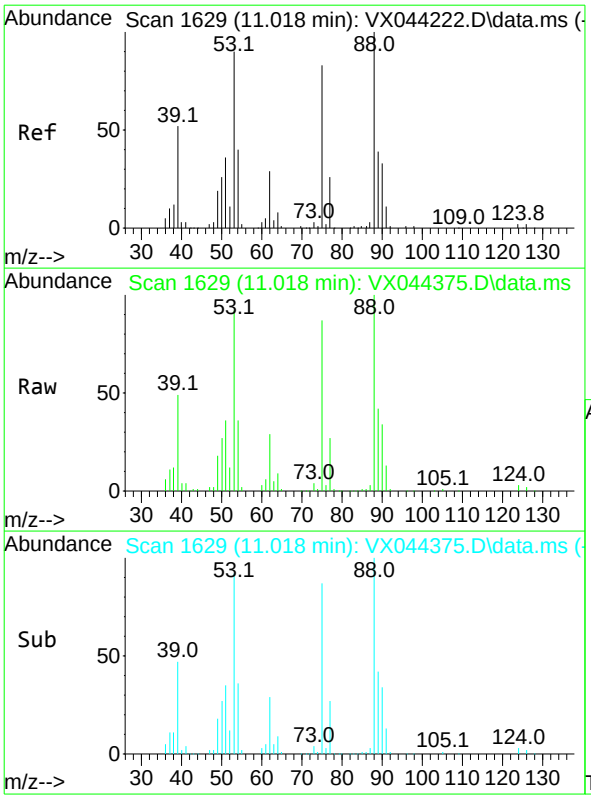


#80
1,3,5-Trimethylbenzene
Concen: 52.518 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:105 Resp: 335043

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	71.4

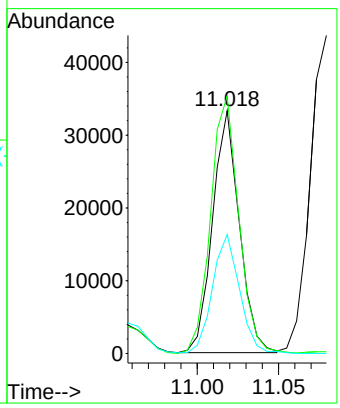




#81
trans-1,4-Dichloro-2-butene
Concen: 48.684 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 37990

Ion	Ratio	Lower	Upper
75	100		
53	112.3	93.6	140.4
89	49.9	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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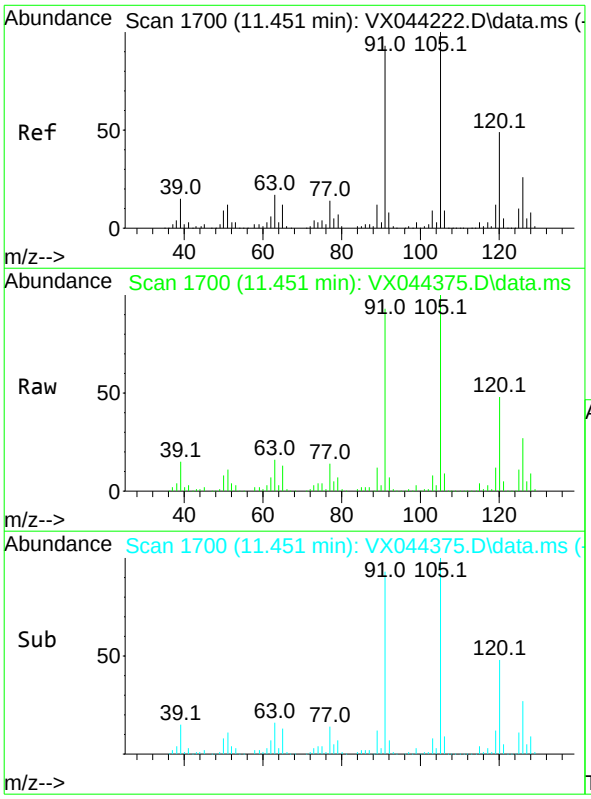
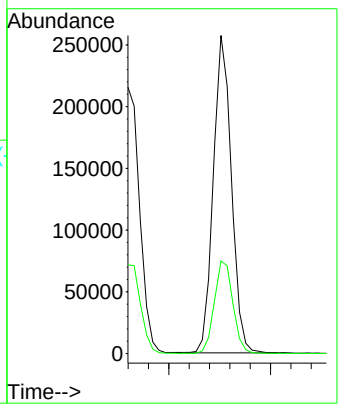
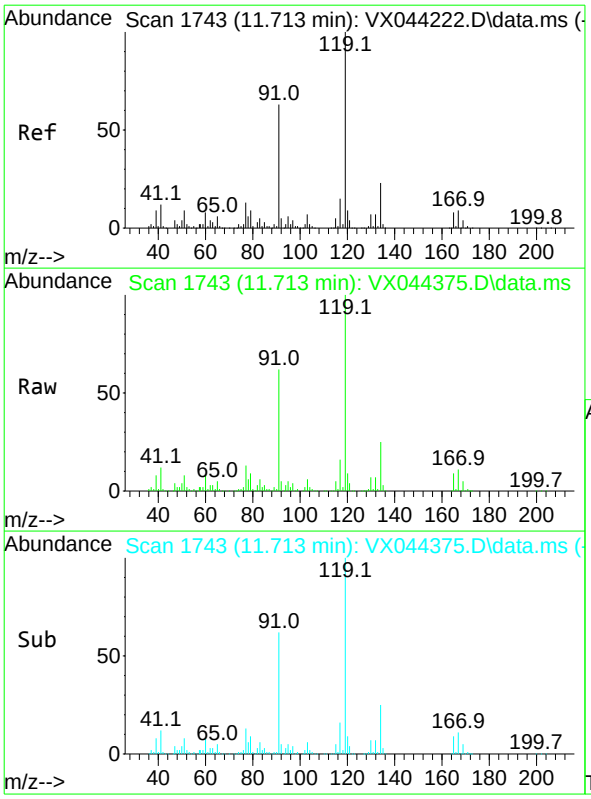


#82
4-Chlorotoluene
Concen: 52.192 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 91 Resp: 317807

Ion	Ratio	Lower	Upper
91	100		
126	29.9	14.5	43.5

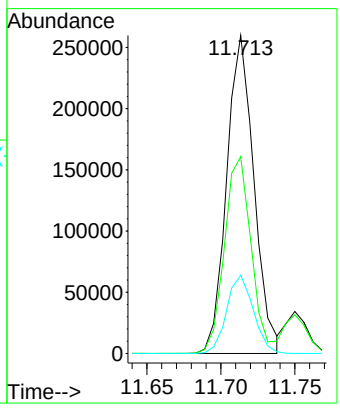




#83
tert-Butylbenzene
Concen: 52.885 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:119 Resp: 333427

Ion	Ratio	Lower	Upper
119	100		
91	60.0	30.9	92.5
134	24.0	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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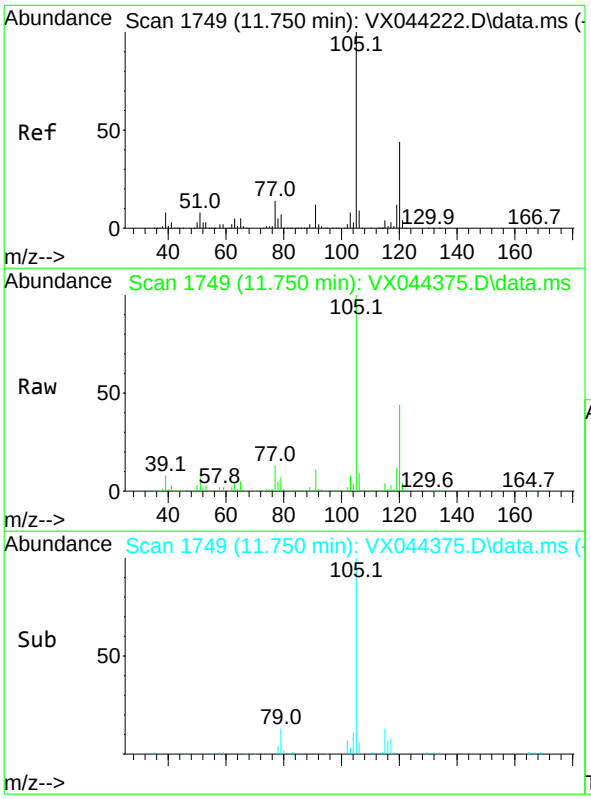
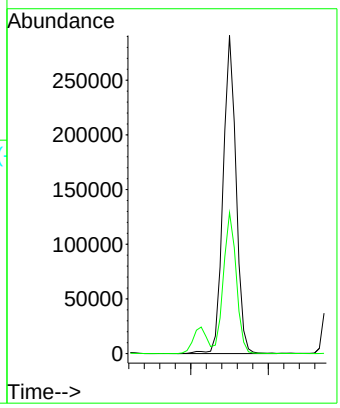
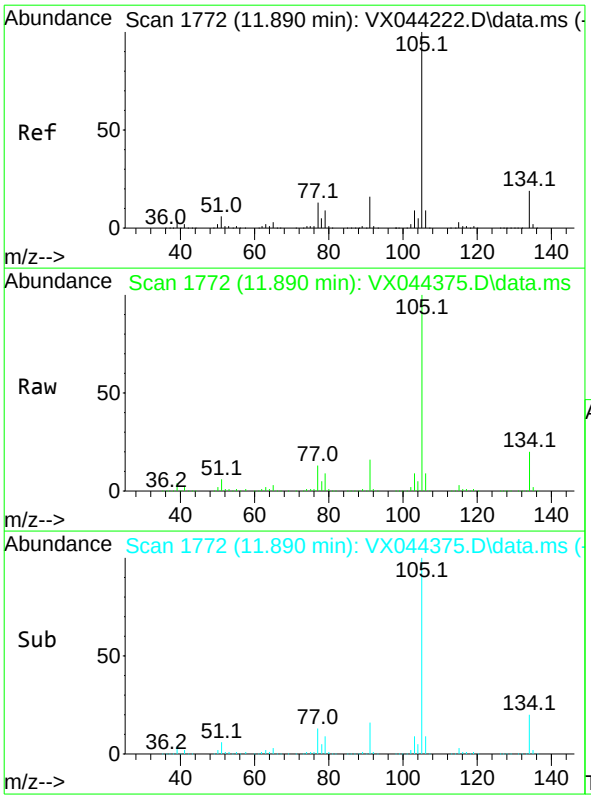


#84
1,2,4-Trimethylbenzene
Concen: 53.815 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:105 Resp: 337162

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.7	65.1

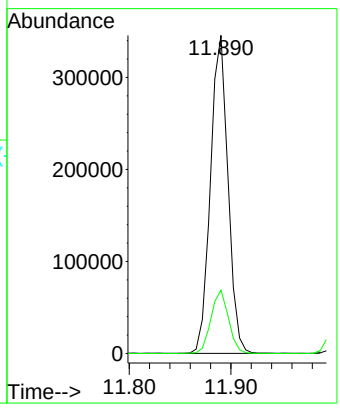




#85
sec-Butylbenzene
Concen: 53.991 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:105 Resp: 413244

Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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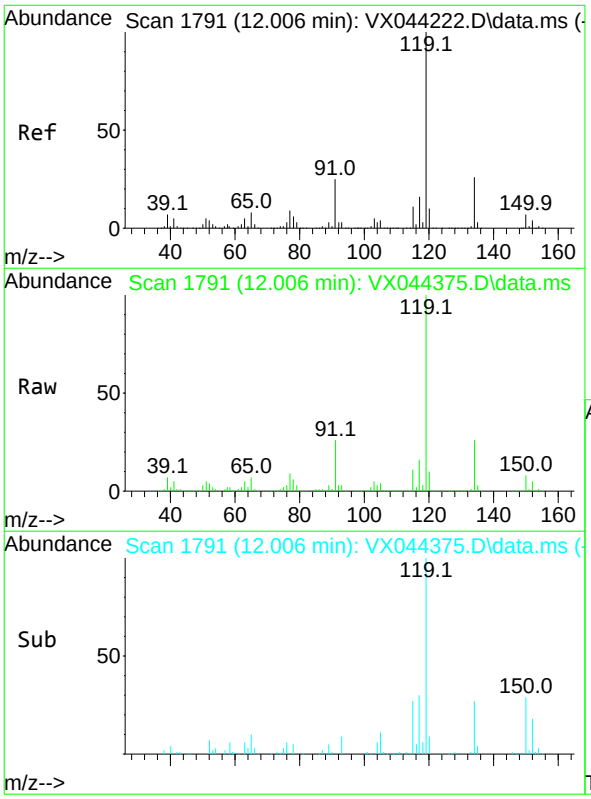
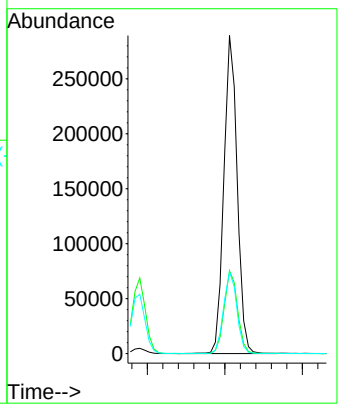
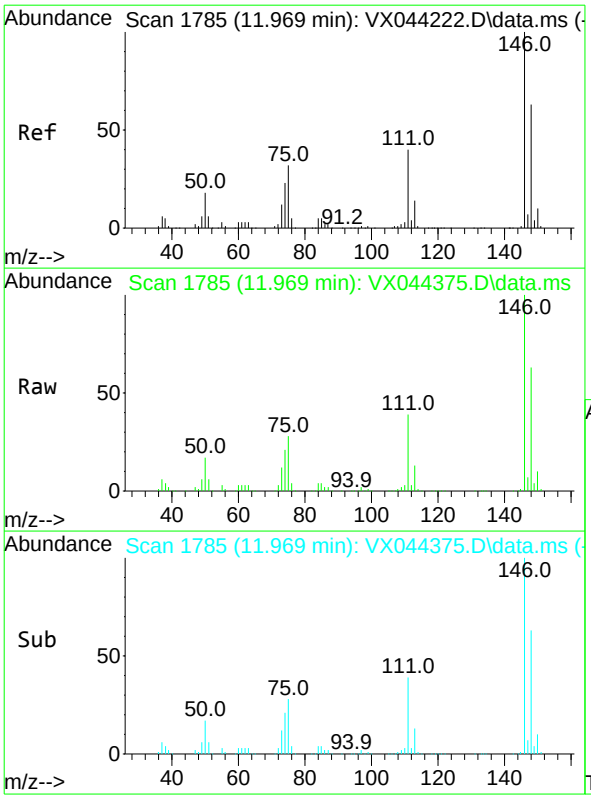


#86
p-Isopropyltoluene
Concen: 54.238 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:119 Resp: 345517

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.8	38.4
91	25.5	13.0	39.0

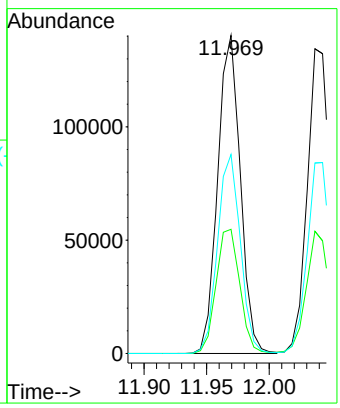




#87
1,3-Dichlorobenzene
Concen: 54.193 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:146 Resp: 176589

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.4	64.2
148	63.1	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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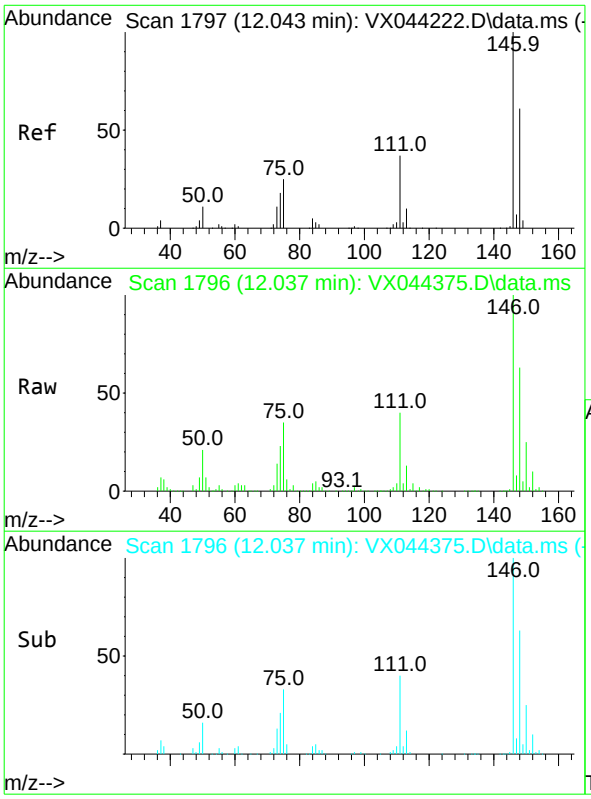
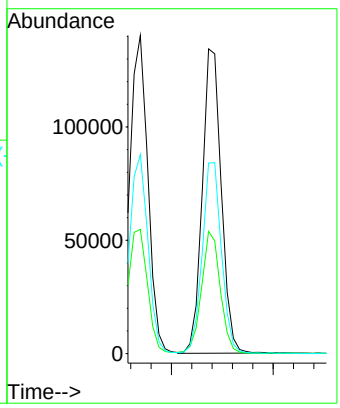
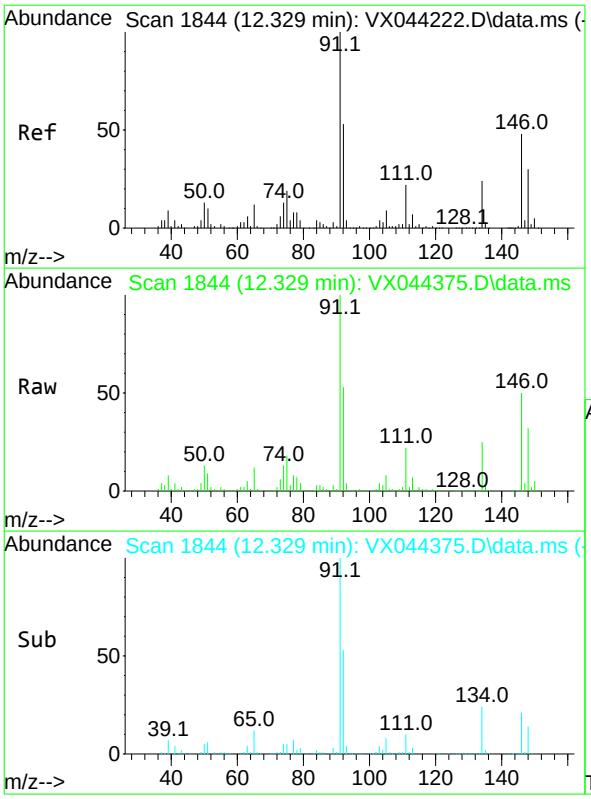


#88
1,4-Dichlorobenzene
Concen: 52.033 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:146 Resp: 174295

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.0	63.0
148	63.6	32.3	96.8

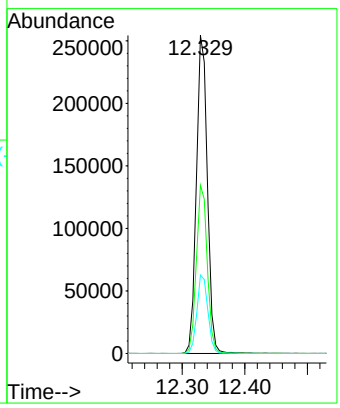




#89
n-Butylbenzene
Concen: 57.821 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 91 Resp: 309732

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.6	79.7
134	24.7	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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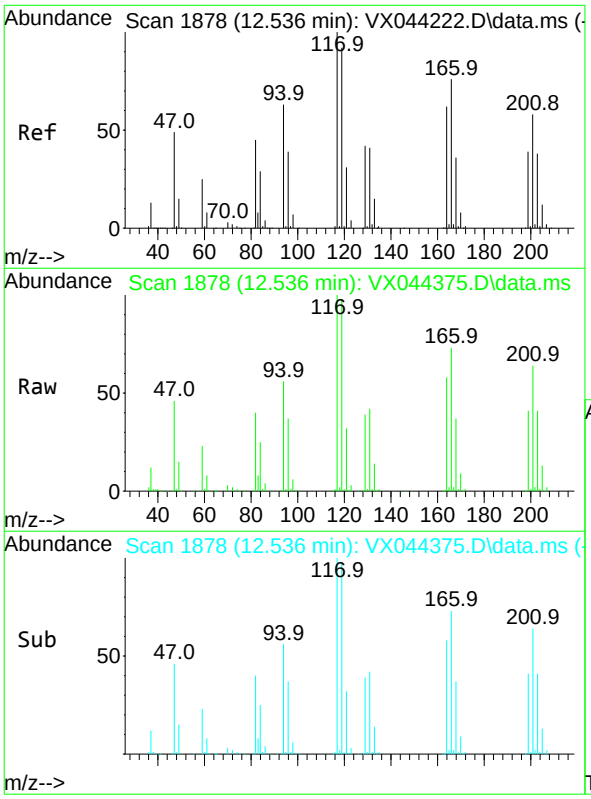
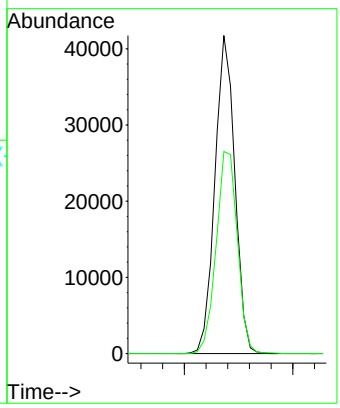
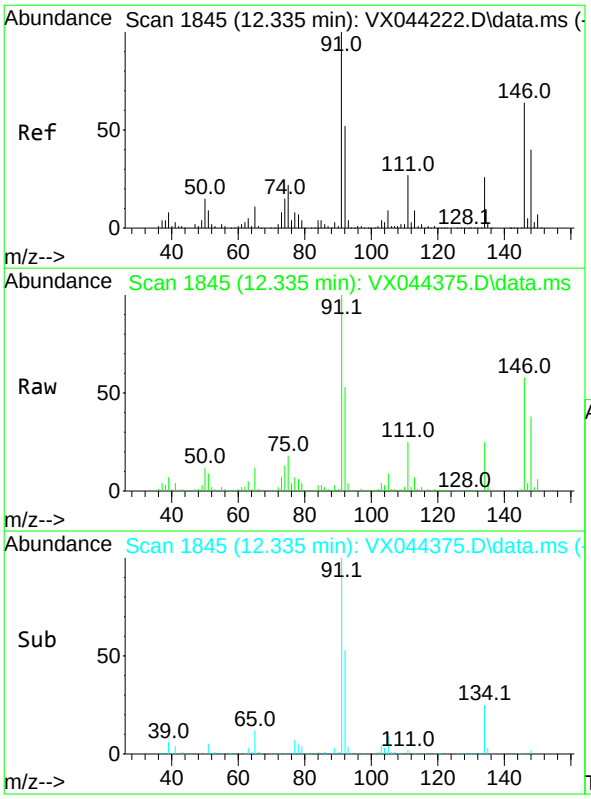


#90
Hexachloroethane
Concen: 57.234 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:117 Resp: 53223

Ion	Ratio	Lower	Upper
117	100		
201	67.9	31.4	94.2

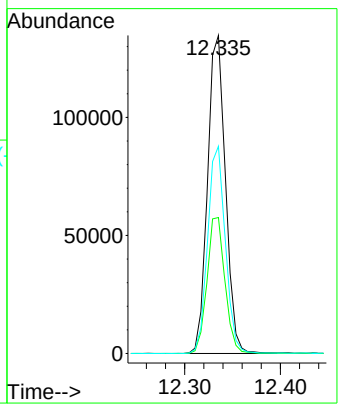




#91
1,2-Dichlorobenzene
Concen: 51.794 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:146 Resp: 175242

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.4	64.3
148	64.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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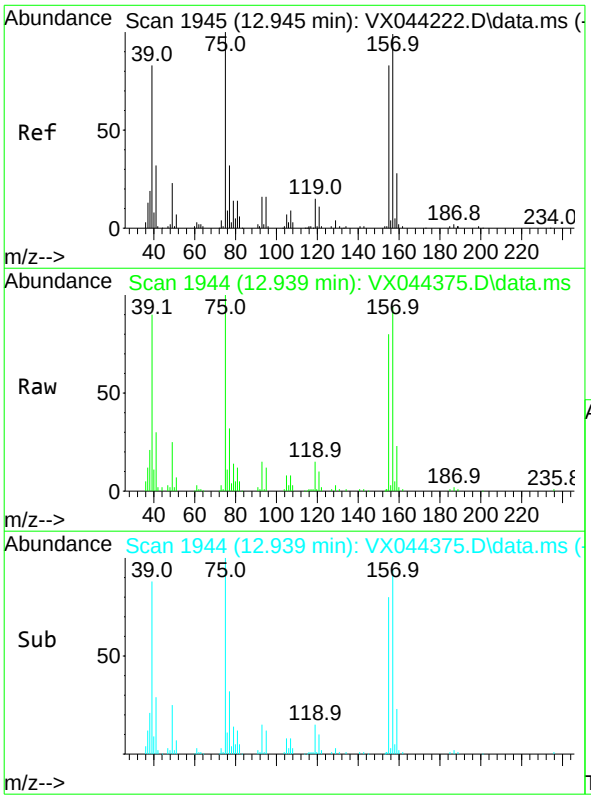
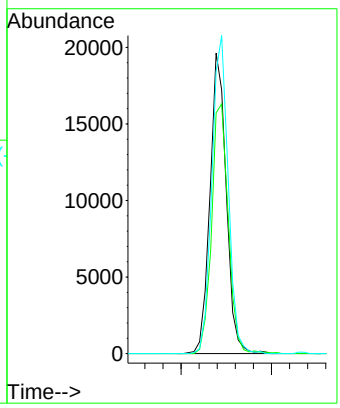
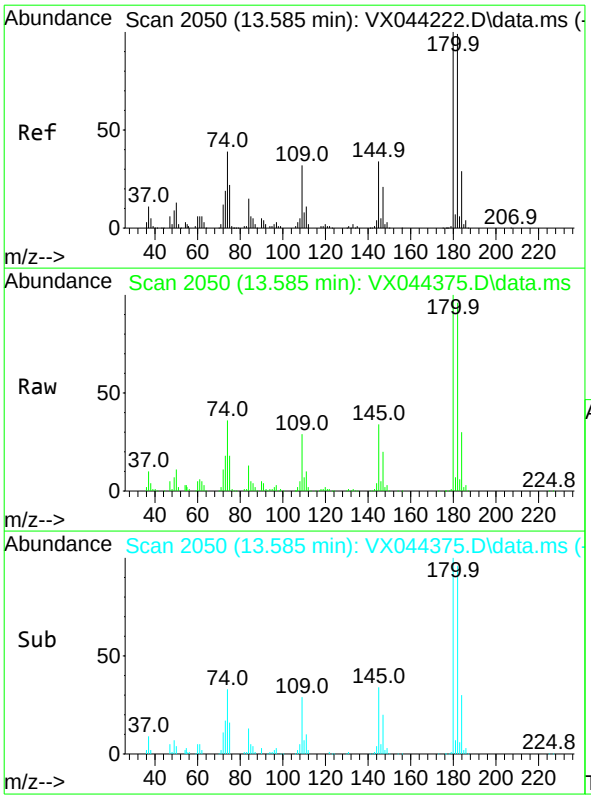


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.259 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 24513

Ion	Ratio	Lower	Upper
75	100		
155	85.1	38.1	114.3
157	106.0	47.2	141.6

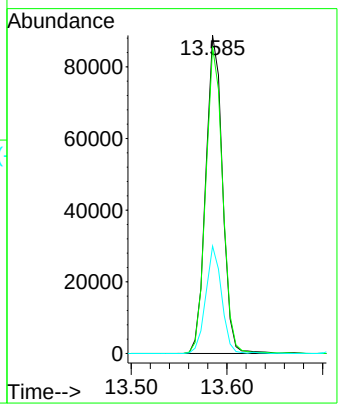




#93
1,2,4-Trichlorobenzene
Concen: 58.218 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:180 Resp: 107991

Ion	Ratio	Lower	Upper
180	100		
182	97.4	48.0	144.2
145	31.8	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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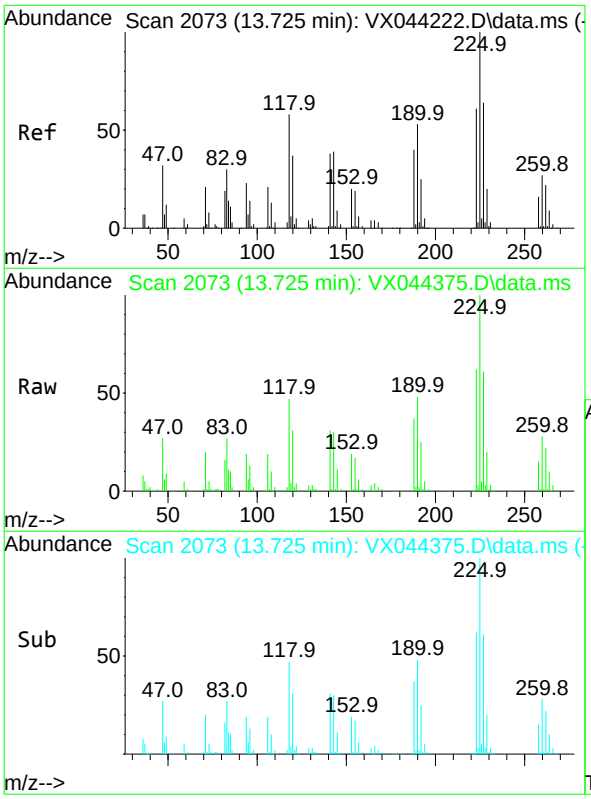
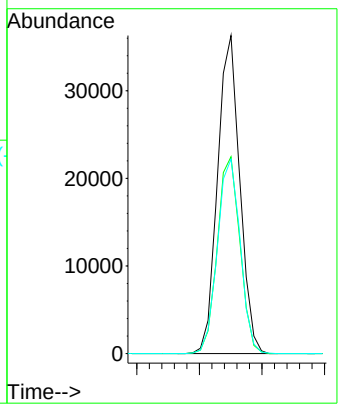
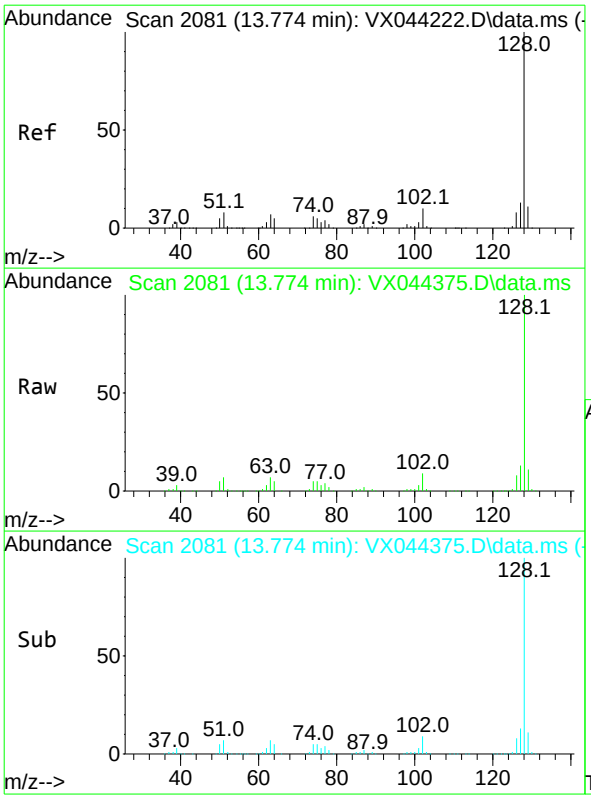


#94
Hexachlorobutadiene
Concen: 60.019 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:225 Resp: 44782

Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.8	92.4
227	62.5	32.1	96.3

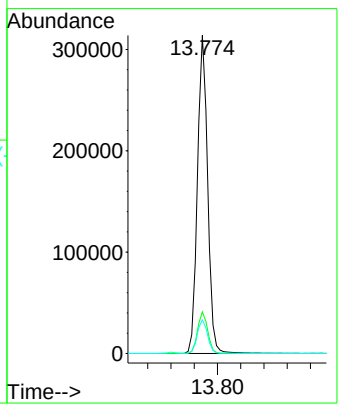




#95
Naphthalene
Concen: 52.848 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:128 Resp: 382648

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 12/20/2024
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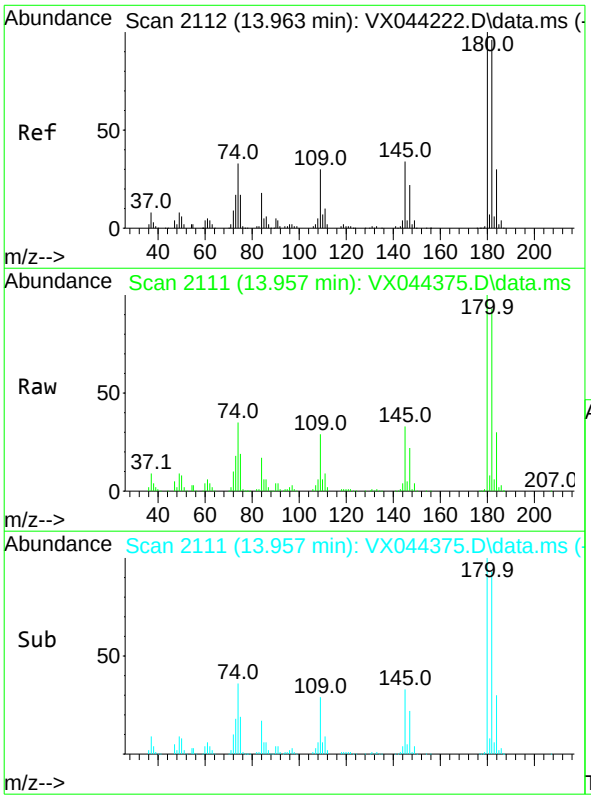
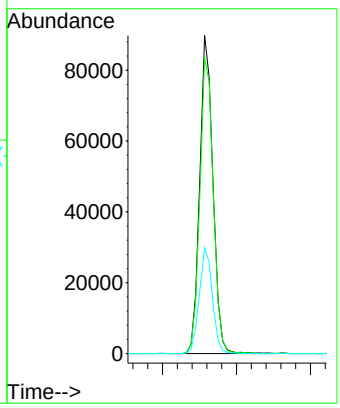


#96
1,2,3-Trichlorobenzene
Concen: 56.523 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:180 Resp: 111207

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	33.2	17.7	53.1



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Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	116	0.00
2	T	Dichlorodifluoromethane	0.773	0.800	-3.5	117	0.00
3	P	Chloromethane	0.739	0.720	2.6	110	0.00
4	C	Vinyl Chloride	0.770	0.743	3.5#	109	0.00
5	T	Bromomethane	0.546	0.475	13.0	100	0.00
6	T	Chloroethane	0.480	0.494	-2.9	107	0.00
7	T	Trichlorofluoromethane	1.508	1.275	15.5	96	0.00
8	T	Diethyl Ether	0.515	0.431	16.3	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.613	-0.5	115	0.00
10	T	Methyl Iodide	0.804	0.787	2.1	107	0.00
11	T	Tert butyl alcohol	0.124	0.114	8.1	109	0.00
12	CM	1,1-Dichloroethene	0.560	0.566	-1.1#	110	0.00
13	T	Acrolein	0.179	0.161	10.1	100	0.00
14	T	Allyl chloride	0.933	0.940	-0.8	108	0.00
15	T	Acrylonitrile	0.342	0.316	7.6	102	0.00
16	T	Acetone	0.357	0.298	16.5	90	0.00
17	T	Carbon Disulfide	1.065	1.209	-13.5	121	0.00
18	T	Methyl Acetate	0.922	0.830	10.0	101	0.00
19	T	Methyl tert-butyl Ether	2.187	2.034	7.0	102	0.00
20	T	Methylene Chloride	0.671	0.643	4.2	108	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.594	0.3	111	0.00
22	T	Diisopropyl ether	2.102	1.966	6.5	105	0.00
23	T	Vinyl Acetate	1.709	1.745	-2.1	105	0.00
24	P	1,1-Dichloroethane	1.172	1.124	4.1	104	0.00
25	T	2-Butanone	0.508	0.450	11.4	95	0.00
26	T	2,2-Dichloropropane	0.952	1.005	-5.6	111	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.723	4.4	108	0.00
28	T	Bromochloromethane	0.575	0.531	7.7	104	0.00
29	T	Tetrahydrofuran	0.326	0.286	12.3	98	0.00
30	C	Chloroform	1.316	1.196	9.1#	103	0.00
31	T	Cyclohexane	0.946	0.956	-1.1	113	0.00
32	T	1,1,1-Trichloroethane	1.093	1.072	1.9	105	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.742	15.4	93	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35	S	Dibromofluoromethane	0.346	0.340	1.7	97	0.00
36	T	1,1-Dichloropropene	0.448	0.468	-4.5	110	0.00
37	T	Ethyl Acetate	0.553	0.548	0.9	99	0.00
38	T	Carbon Tetrachloride	0.482	0.517	-7.3	108	0.00
39	T	Methylcyclohexane	0.535	0.624	-16.6	118	0.00
40	TM	Benzene	1.359	1.428	-5.1	106	0.00
41	T	Methacrylonitrile	0.294	0.288	2.0	100	0.00
42	TM	1,2-Dichloroethane	0.560	0.555	0.9	99	0.00
43	T	Isopropyl Acetate	0.865	0.886	-2.4	101	0.00
44	TM	Trichloroethene	0.339	0.364	-7.4	109	0.00
45	C	1,2-Dichloropropane	0.347	0.356	-2.6#	104	0.00
46	T	Dibromomethane	0.269	0.278	-3.3	102	0.00
47	T	Bromodichloromethane	0.465	0.508	-9.2	105	0.00
48	T	Methyl methacrylate	0.420	0.421	-0.2	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.007	0.005	28.6#	70	-0.01
50	S	Toluene-d8	1.168	1.164	0.3	97	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.546	1.8	97	0.00
52	CM	Toluene	0.853	0.900	-5.5#	107	0.00
53	T	t-1,3-Dichloropropene	0.455	0.521	-14.5	106	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.571	-12.6	106	0.00
55	T	1,1,2-Trichloroethane	0.339	0.351	-3.5	103	0.00
56	T	Ethyl methacrylate	0.535	0.577	-7.9	105	0.00
57	T	1,3-Dichloropropane	0.590	0.600	-1.7	103	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.267	1.1	95	0.00
59	T	2-Hexanone	0.403	0.402	0.2	96	0.00
60	T	Dibromochloromethane	0.326	0.365	-12.0	103	0.00
61	T	1,2-Dibromoethane	0.345	0.365	-5.8	104	0.00
62	S	4-Bromofluorobenzene	0.408	0.413	-1.2	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.332	0.358	-7.8	116	0.00
65	PM	Chlorobenzene	1.071	1.111	-3.7	106	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.386	-12.2	107	0.00
67	C	Ethyl Benzene	1.851	1.955	-5.6#	105	0.00
68	T	m/p-Xylenes	0.679	0.737	-8.5	108	0.00
69	T	o-Xylene	0.687	0.731	-6.4	108	0.00
70	T	Styrene	1.102	1.210	-9.8	108	0.00
71	P	Bromoform	0.219	0.261	-19.2	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
73	T	Isopropylbenzene	3.828	4.011	-4.8	108	0.00
74	T	N-amyl acetate	1.769	1.853	-4.7	102	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.294	2.6	102	0.00
76	T	1,2,3-Trichloropropane	1.116	1.084	2.9	102	0.00
77	T	Bromobenzene	0.928	0.960	-3.4	108	0.00
78	T	n-propylbenzene	4.231	4.554	-7.6	107	0.00
79	T	2-Chlorotoluene	2.736	2.725	0.4	104	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.334	-5.0	106	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.378	-8.9	108	0.00
82	T	4-Chlorotoluene	3.030	3.163	-4.4	107	0.00
83	T	tert-Butylbenzene	3.137	3.318	-5.8	107	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.355	-7.6	108	0.00
85	T	sec-Butylbenzene	3.808	4.112	-8.0	109	0.00
86	T	p-Isopropyltoluene	3.170	3.438	-8.5	108	0.00
87	T	1,3-Dichlorobenzene	1.621	1.757	-8.4	110	0.00
88	T	1,4-Dichlorobenzene	1.667	1.734	-4.0	109	0.00
89	T	n-Butylbenzene	2.665	3.082	-15.6	114	0.00
90	T	Hexachloroethane	0.463	0.530	-14.5	110	0.00
91	T	1,2-Dichlorobenzene	1.683	1.744	-3.6	107	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.244	5.4	94	0.00
93	T	1,2,4-Trichlorobenzene	0.923	1.075	-16.5	116	0.00
94	T	Hexachlorobutadiene	0.371	0.446	-20.2	127	0.00
95	T	Naphthalene	3.603	3.808	-5.7	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.107	-13.1	115	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	116	0.00
2	T	Dichlorodifluoromethane	50.000	51.725	-3.5	117	0.00
3	P	Chloromethane	50.000	48.687	2.6	110	0.00
4	C	Vinyl Chloride	50.000	48.260	3.5#	109	0.00
5	T	Bromomethane	50.000	43.497	13.0	100	0.00
6	T	Chloroethane	50.000	51.515	-3.0	107	0.00
7	T	Trichlorofluoromethane	50.000	42.285	15.4	96	0.00
8	T	Diethyl Ether	50.000	41.863	16.3	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.273	-0.5	115	0.00
10	T	Methyl Iodide	50.000	48.954	2.1	107	0.00
11	T	Tert butyl alcohol	250.000	230.596	7.8	109	0.00
12	CM	1,1-Dichloroethene	50.000	50.480	-1.0#	110	0.00
13	T	Acrolein	250.000	224.413	10.2	100	0.00
14	T	Allyl chloride	50.000	50.357	-0.7	108	0.00
15	T	Acrylonitrile	250.000	231.100	7.6	102	0.00
16	T	Acetone	250.000	208.352	16.7	90	0.00
17	T	Carbon Disulfide	50.000	56.760	-13.5	121	0.00
18	T	Methyl Acetate	50.000	45.040	9.9	101	0.00
19	T	Methyl tert-butyl Ether	50.000	46.491	7.0	102	0.00
20	T	Methylene Chloride	50.000	47.904	4.2	108	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.833	0.3	111	0.00
22	T	Diisopropyl ether	50.000	46.766	6.5	105	0.00
23	T	Vinyl Acetate	250.000	255.320	-2.1	105	0.00
24	P	1,1-Dichloroethane	50.000	47.946	4.1	104	0.00
25	T	2-Butanone	250.000	221.473	11.4	95	0.00
26	T	2,2-Dichloropropane	50.000	52.773	-5.5	111	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.800	4.4	108	0.00
28	T	Bromochloromethane	50.000	46.252	7.5	104	0.00
29	T	Tetrahydrofuran	250.000	219.106	12.4	98	0.00
30	C	Chloroform	50.000	45.441	9.1#	103	0.00
31	T	Cyclohexane	50.000	50.494	-1.0	113	0.00
32	T	1,1,1-Trichloroethane	50.000	49.028	1.9	105	0.00
33	S	1,2-Dichloroethane-d4	50.000	42.332	15.3	93	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35	S	Dibromofluoromethane	50.000	49.107	1.8	97	0.00
36	T	1,1-Dichloropropene	50.000	52.248	-4.5	110	0.00
37	T	Ethyl Acetate	50.000	49.494	1.0	99	0.00
38	T	Carbon Tetrachloride	50.000	53.675	-7.3	108	0.00
39	T	Methylcyclohexane	50.000	58.275	-16.5	118	0.00
40	TM	Benzene	50.000	52.550	-5.1	106	0.00
41	T	Methacrylonitrile	50.000	49.080	1.8	100	0.00
42	TM	1,2-Dichloroethane	50.000	49.531	0.9	99	0.00
43	T	Isopropyl Acetate	50.000	51.210	-2.4	101	0.00
44	TM	Trichloroethene	50.000	53.650	-7.3	109	0.00
45	C	1,2-Dichloropropane	50.000	51.252	-2.5#	104	0.00
46	T	Dibromomethane	50.000	51.538	-3.1	102	0.00
47	T	Bromodichloromethane	50.000	54.647	-9.3	105	0.00
48	T	Methyl methacrylate	50.000	50.124	-0.2	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	724.793	27.5#	70	-0.01
50	S	Toluene-d8	50.000	49.811	0.4	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	245.442	1.8	97	0.00
52	CM	Toluene	50.000	52.735	-5.5#	107	0.00
53	T	t-1,3-Dichloropropene	50.000	52.027	-4.1	106	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.385	-12.8	106	0.00
55	T	1,1,2-Trichloroethane	50.000	51.812	-3.6	103	0.00
56	T	Ethyl methacrylate	50.000	53.914	-7.8	105	0.00
57	T	1,3-Dichloropropane	50.000	50.832	-1.7	103	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	247.508	1.0	95	0.00
59	T	2-Hexanone	250.000	249.789	0.1	96	0.00
60	T	Dibromochloromethane	50.000	50.794	-1.6	103	0.00
61	T	1,2-Dibromoethane	50.000	52.923	-5.8	104	0.00
62	S	4-Bromofluorobenzene	50.000	50.645	-1.3	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	54.001	-8.0	116	0.00
65	PM	Chlorobenzene	50.000	51.858	-3.7	106	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.077	-12.2	107	0.00
67	C	Ethyl Benzene	50.000	52.803	-5.6#	105	0.00
68	T	m/p-Xylenes	100.000	108.454	-8.5	108	0.00
69	T	o-Xylene	50.000	53.206	-6.4	108	0.00
70	T	Styrene	50.000	54.912	-9.8	108	0.00
71	P	Bromoform	50.000	53.638	-7.3	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
73	T	Isopropylbenzene	50.000	52.392	-4.8	108	0.00
74	T	N-amyl acetate	50.000	52.376	-4.8	102	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.651	2.7	102	0.00
76	T	1,2,3-Trichloropropane	50.000	48.566	2.9	102	0.00
77	T	Bromobenzene	50.000	51.705	-3.4	108	0.00
78	T	n-propylbenzene	50.000	53.816	-7.6	107	0.00
79	T	2-Chlorotoluene	50.000	49.803	0.4	104	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.518	-5.0	106	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.684	2.6	108	0.00
82	T	4-Chlorotoluene	50.000	52.192	-4.4	107	0.00
83	T	tert-Butylbenzene	50.000	52.885	-5.8	107	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.815	-7.6	108	0.00
85	T	sec-Butylbenzene	50.000	53.991	-8.0	109	0.00
86	T	p-Isopropyltoluene	50.000	54.238	-8.5	108	0.00
87	T	1,3-Dichlorobenzene	50.000	54.193	-8.4	110	0.00
88	T	1,4-Dichlorobenzene	50.000	52.033	-4.1	109	0.00
89	T	n-Butylbenzene	50.000	57.821	-15.6	114	0.00
90	T	Hexachloroethane	50.000	57.234	-14.5	110	0.00
91	T	1,2-Dichlorobenzene	50.000	51.794	-3.6	107	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.259	5.5	94	0.00
93	T	1,2,4-Trichlorobenzene	50.000	58.218	-16.4	116	0.00
94	T	Hexachlorobutadiene	50.000	60.019	-20.0	127	0.00
95	T	Naphthalene	50.000	52.848	-5.7	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	56.523	-13.0	115	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date/Time: 12/18/2024 19:52

Lab File ID: VX044395.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.785		1.55	50
Chloromethane	0.739	0.805	0.1	8.93	50
Vinyl Chloride	0.770	0.803		4.29	50
Bromomethane	0.546	0.526		-3.66	50
Chloroethane	0.480	0.557		16.04	50
Trichlorofluoromethane	1.508	1.236		-18.04	50
1,1,2-Trichlorotrifluoroethane	0.610	0.577		-5.41	50
1,1-Dichloroethene	0.560	0.579		3.39	50
Acetone	0.357	0.306		-14.29	50
Carbon Disulfide	1.065	1.056		-0.85	50
Methyl tert-butyl Ether	2.187	2.164		-1.05	50
Methyl Acetate	0.922	0.912		-1.09	50
Methylene Chloride	0.671	0.695		3.58	50
trans-1,2-Dichloroethene	0.596	0.603		1.17	50
1,1-Dichloroethane	1.172	1.201	0.1	2.47	50
Cyclohexane	0.946	0.875		-7.51	50
2-Butanone	0.508	0.497		-2.16	50
Carbon Tetrachloride	0.482	0.466		-3.32	50
cis-1,2-Dichloroethene	0.756	0.763		0.93	50
Bromochloromethane	0.575	0.561		-2.43	50
Chloroform	1.316	1.284		-2.43	50
1,1,1-Trichloroethane	1.093	1.060		-3.02	50
Methylcyclohexane	0.535	0.528		-1.31	50
Benzene	1.359	1.397		2.8	50
1,2-Dichloroethane	0.560	0.554		-1.07	50
Trichloroethene	0.339	0.347		2.36	50
1,2-Dichloropropane	0.347	0.349		0.58	50
Bromodichloromethane	0.465	0.496		6.67	50
4-Methyl-2-Pentanone	0.556	0.558		0.36	50
Toluene	0.853	0.833		-2.35	50
t-1,3-Dichloropropene	0.455	0.470		3.3	50
cis-1,3-Dichloropropene	0.507	0.526		3.75	50
1,1,2-Trichloroethane	0.339	0.360		6.2	50
2-Hexanone	0.403	0.410		1.74	50
Dibromochloromethane	0.326	0.346		6.14	50
1,2-Dibromoethane	0.345	0.361		4.64	50
Tetrachloroethene	0.332	0.328		-1.21	50
Chlorobenzene	1.071	1.072	0.3	0.09	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date/Time: 12/18/2024 19:52

Lab File ID: VX044395.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.810		-2.21	50
m/p-Xylenes	0.679	0.687		1.18	50
o-Xylene	0.687	0.694		1.02	50
Styrene	1.102	1.146		3.99	50
Bromoform	0.219	0.241	0.1	10.05	50
Isopropylbenzene	3.828	3.704		-3.24	50
1,1,2,2-Tetrachloroethane	1.329	1.359	0.3	2.26	50
1,3-Dichlorobenzene	1.621	1.607		-0.86	50
1,4-Dichlorobenzene	1.667	1.616		-3.06	50
1,2-Dichlorobenzene	1.684	1.678		-0.36	50
1,2-Dibromo-3-Chloropropane	0.258	0.250		-3.1	50
1,2,4-Trichlorobenzene	0.923	0.932		0.98	50
1,2,3-Trichlorobenzene	0.979	0.985		0.61	50
1,2-Dichloroethane-d4	0.877	0.792		-9.69	50
Dibromofluoromethane	0.346	0.340		-1.73	50
Toluene-d8	1.168	1.114		-4.62	50
4-Bromofluorobenzene	0.408	0.378		-7.35	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\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	128806	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	231562	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	198322	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92192	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	102044	45.184	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.360%		
35) Dibromofluoromethane	5.379	113	78617	49.020	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.040%		
50) Toluene-d8	8.647	98	258060	47.694	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.380%		
62) 4-Bromofluorobenzene	11.079	95	87444	46.251	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.500%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	101127	50.775	ug/l	97
3) Chloromethane	1.295	50	103746	54.472	ug/l	98
4) Vinyl Chloride	1.374	62	103445	52.134	ug/l	98
5) Bromomethane	1.593	94	67793	48.160	ug/l	98
6) Chloroethane	1.660	64	71772	58.090	ug/l	99
7) Trichlorofluoromethane	1.868	101	159151	40.971	ug/l	99
8) Diethyl Ether	2.136	74	61981	46.745	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.313	101	74293	47.265	ug/l	97
10) Methyl Iodide	2.441	142	110675	53.424	ug/l	98
11) Tert butyl alcohol	2.995	59	61810	194.195	ug/l	98
12) 1,1-Dichloroethene	2.307	96	74624	51.687	ug/l	97
13) Acrolein	2.233	56	131600	285.631	ug/l	99
14) Allyl chloride	2.654	41	122245	50.834	ug/l	99
15) Acrylonitrile	3.069	53	227490	258.021	ug/l	99
16) Acetone	2.386	43	197278	214.267	ug/l	95
17) Carbon Disulfide	2.502	76	136022	49.563	ug/l	99
18) Methyl Acetate	2.709	43	117496	49.494	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	278770	49.479	ug/l	98
20) Methylene Chloride	2.782	84	89530	51.772	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	77722	50.653	ug/l	97
22) Diisopropyl ether	3.764	45	268559	49.594	ug/l	97
23) Vinyl Acetate	3.721	43	1185904	269.370	ug/l	99
24) 1,1-Dichloroethane	3.605	63	154722	51.258	ug/l	98
25) 2-Butanone	4.562	43	319886	244.389	ug/l	99
26) 2,2-Dichloropropane	4.465	77	103750	42.309	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	98262	50.424	ug/l	95
28) Bromochloromethane	4.898	49	72263	48.821	ug/l	98
29) Tetrahydrofuran	5.007	42	206531	245.825	ug/l	99
30) Chloroform	5.087	83	165359	48.758	ug/l	98
31) Cyclohexane	5.458	56	112724	46.246	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	136491	48.484	ug/l	100
36) 1,1-Dichloropropene	5.684	75	98106	47.323	ug/l	98
37) Ethyl Acetate	4.715	43	129759	50.635	ug/l	100
38) Carbon Tetrachloride	5.672	117	107841	48.318	ug/l	99
39) Methylcyclohexane	7.373	83	122156	49.289	ug/l	97
40) Benzene	6.032	78	323543	51.403	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	67557	49.647	ug/l		98
42) 1,2-Dichloroethane	6.086	62	128355	49.504	ug/l		96
43) Isopropyl Acetate	6.342	43	203040	50.693	ug/l		99
44) Trichloroethene	7.123	130	80410	51.229	ug/l		96
45) 1,2-Dichloropropane	7.428	63	80917	50.319	ug/l		99
46) Dibromomethane	7.580	93	64847	51.979	ug/l		95
47) Bromodichloromethane	7.818	83	114945	53.349	ug/l		99
48) Methyl methacrylate	7.696	41	95430	49.082	ug/l		97
49) 1,4-Dioxane	7.665	88	27544	854.459	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.574	43	646548	251.054	ug/l		98
52) Toluene	8.714	92	192849	48.790	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	108831	47.246	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	121772	51.907	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	83289	53.041	ug/l		96
56) Ethyl methacrylate	9.116	69	128375	51.786	ug/l		97
57) 1,3-Dichloropropane	9.305	76	139034	50.869	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	316405	253.061	ug/l		100
59) 2-Hexanone	9.433	43	474334	254.459	ug/l		99
60) Dibromochloromethane	9.519	129	80110	48.292	ug/l		97
61) 1,2-Dibromoethane	9.610	107	83651	52.335	ug/l		98
64) Tetrachloroethene	9.269	164	65080	49.442	ug/l		99
65) Chlorobenzene	10.080	112	212528	50.011	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	72780	53.289	ug/l		98
67) Ethyl Benzene	10.189	91	358882	48.877	ug/l		97
68) m/p-Xylenes	10.299	106	272625	101.186	ug/l		96
69) o-Xylene	10.640	106	137600	50.475	ug/l		94
70) Styrene	10.653	104	227233	51.996	ug/l		96
71) Bromoform	10.799	173	47848	50.123	ug/l	#	99
73) Isopropylbenzene	10.964	105	341494	48.386	ug/l		100
74) N-amyl acetate	10.842	43	167806	51.447	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.214	83	125333	51.128	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	99482m	48.329	ug/l		
77) Bromobenzene	11.195	156	86623	50.614	ug/l		97
78) n-propylbenzene	11.305	91	382775	49.070	ug/l		98
79) 2-Chlorotoluene	11.366	91	238254	47.227	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	283243	48.394	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	31620	44.685	ug/l		98
82) 4-Chlorotoluene	11.451	91	264905	47.419	ug/l		98
83) tert-Butylbenzene	11.713	119	282938	48.916	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	287742	50.060	ug/l		99
85) sec-Butylbenzene	11.890	105	339068	48.287	ug/l		98
86) p-Isopropyltoluene	12.006	119	284281	48.641	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	148170	49.564	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	148965	48.473	ug/l		98
89) n-Butylbenzene	12.329	91	239841	48.803	ug/l		99
90) Hexachloroethane	12.536	117	42721	50.075	ug/l		96
91) 1,2-Dichlorobenzene	12.335	146	154736	49.849	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	23089	48.520	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	85945	50.503	ug/l		99
94) Hexachlorobutadiene	13.725	225	34008	49.682	ug/l		98
95) Naphthalene	13.774	128	324880	48.907	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	90839	50.326	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

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

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

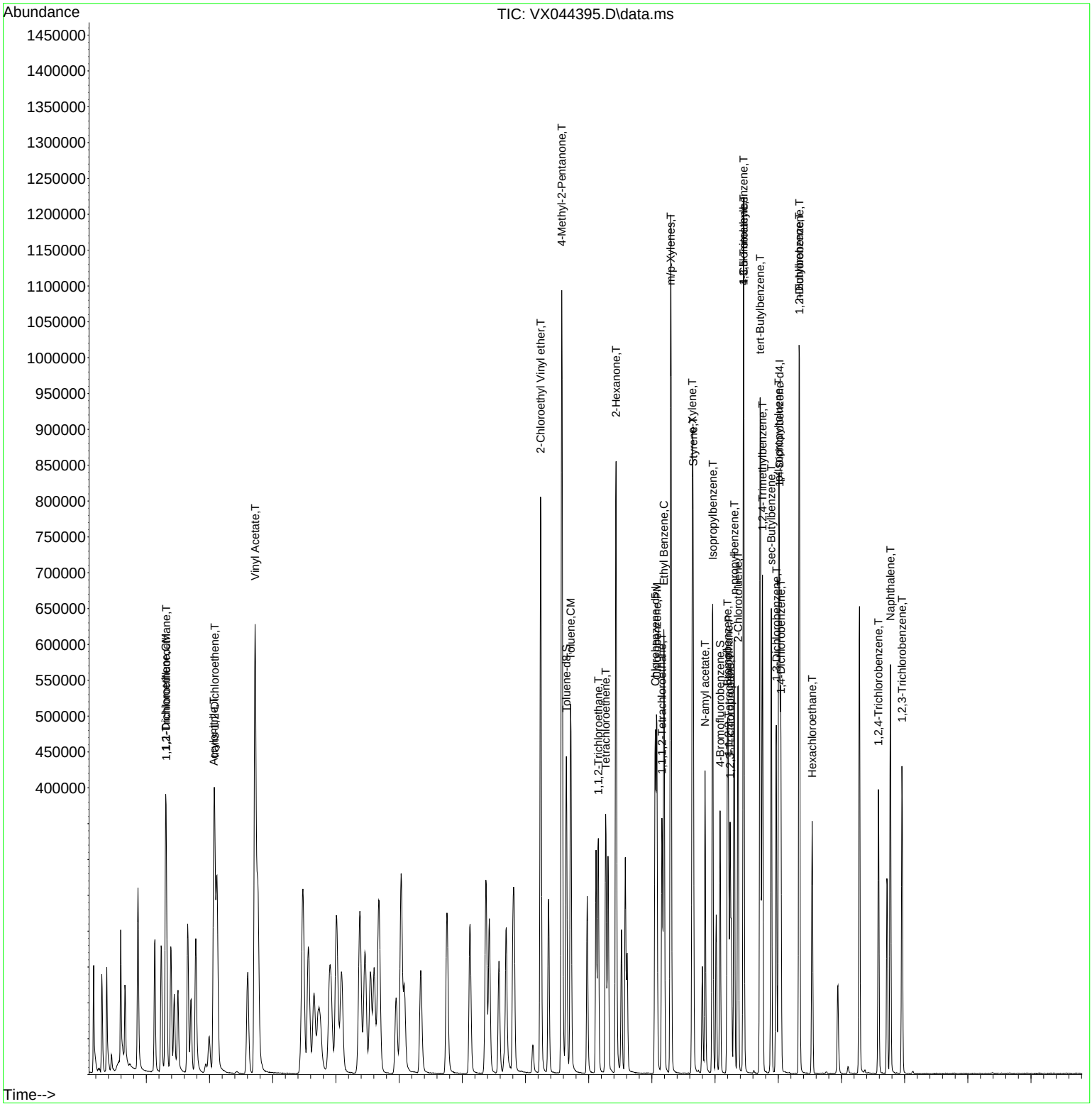
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

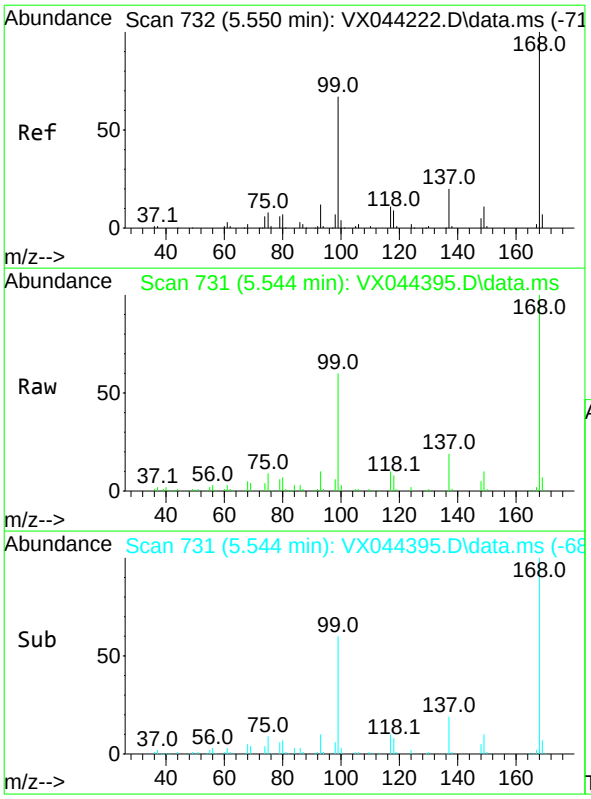
Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

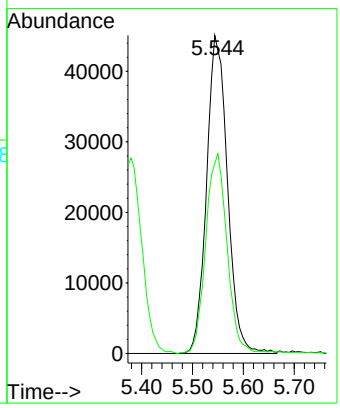




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:168 Resp: 128806

Ion	Ratio	Lower	Upper
168	100		
99	59.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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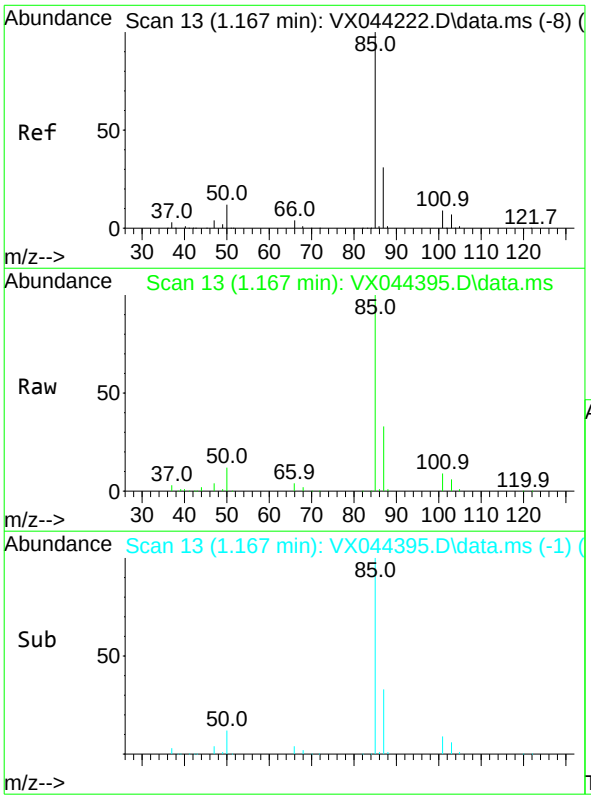
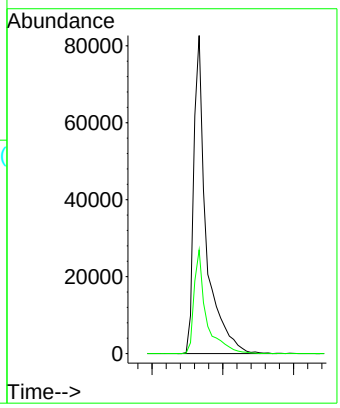
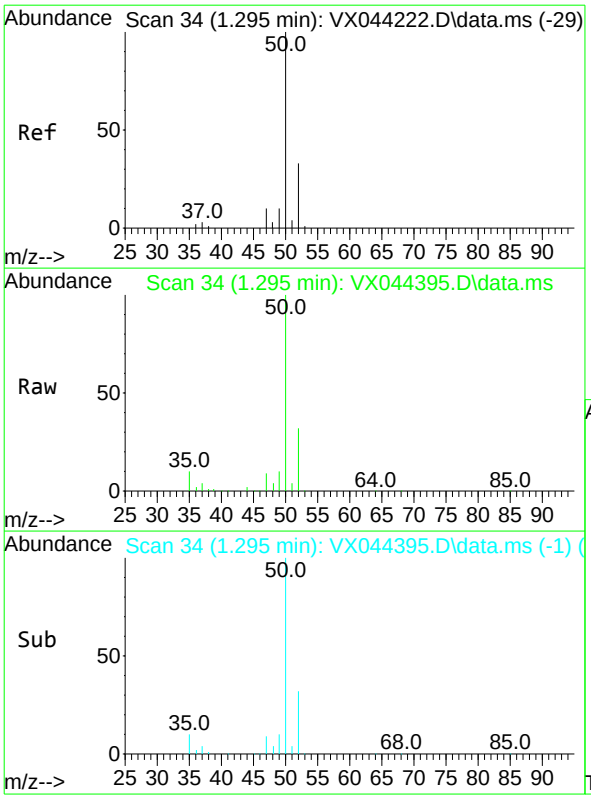


#2
Dichlorodifluoromethane
Concen: 50.775 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 85 Resp: 101127

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.4	46.4

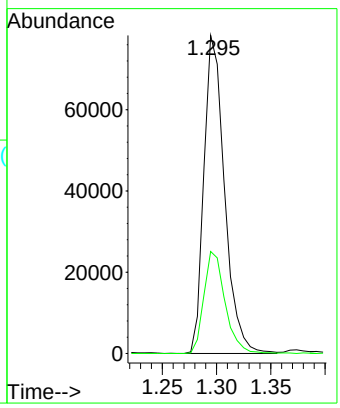




#3
Chloromethane
Concen: 54.472 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 50 Resp: 103746

Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
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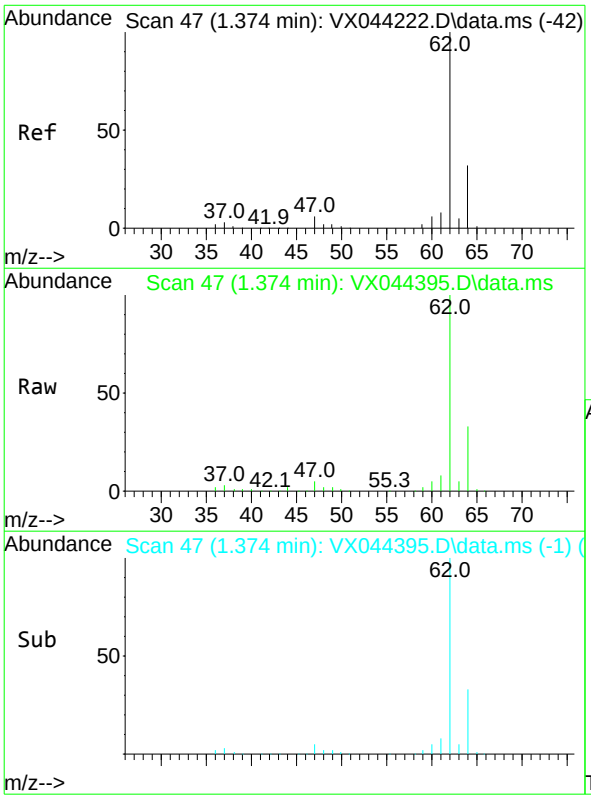
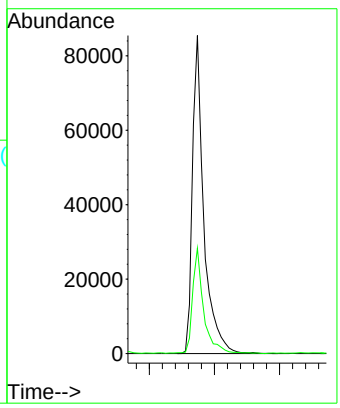
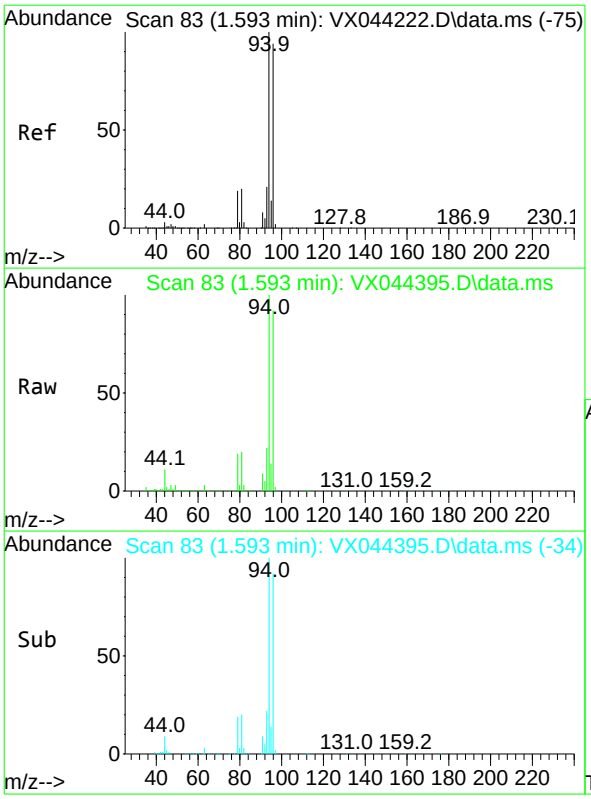


#4
Vinyl Chloride
Concen: 52.134 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 62 Resp: 103445

Ion	Ratio	Lower	Upper
62	100		
64	33.0	25.7	38.5

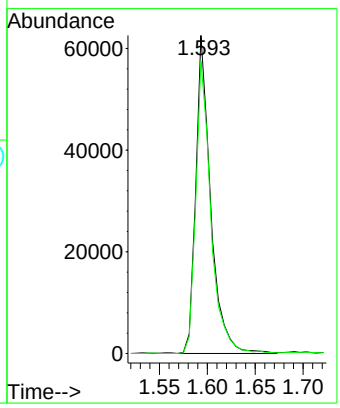




#5
Bromomethane
Concen: 48.160 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 94 Resp: 67793

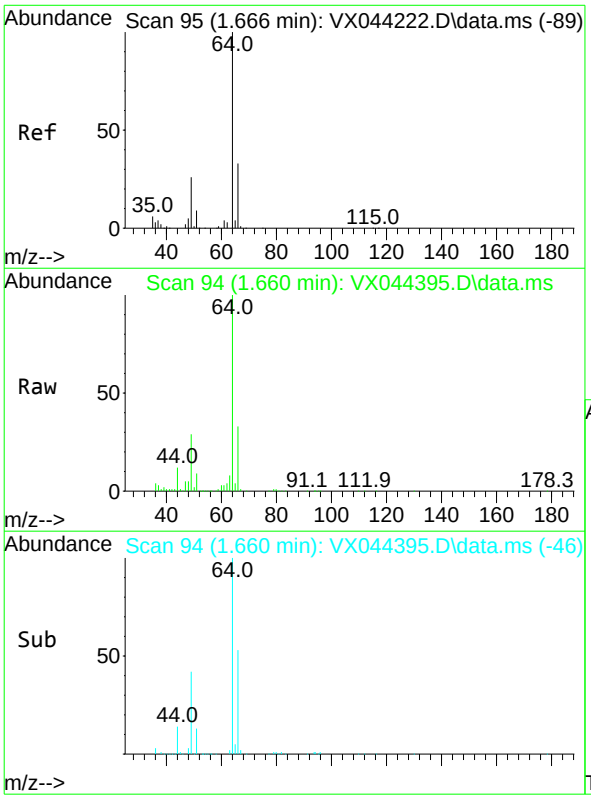
Ion	Ratio	Lower	Upper
94	100		
96	92.0	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

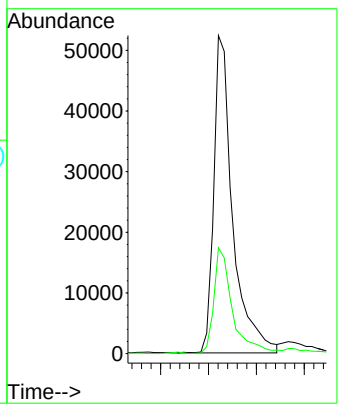
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

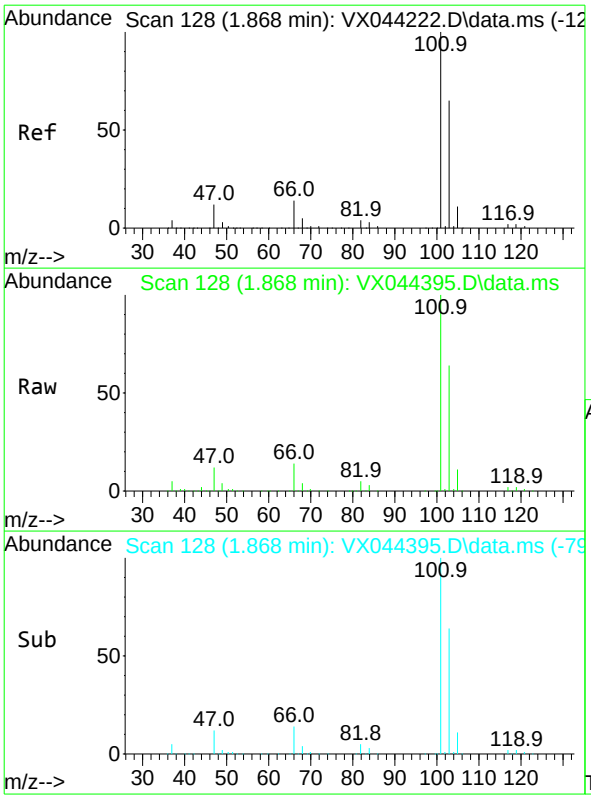


#6
Chloroethane
Concen: 58.090 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 64 Resp: 71772

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.6	39.8

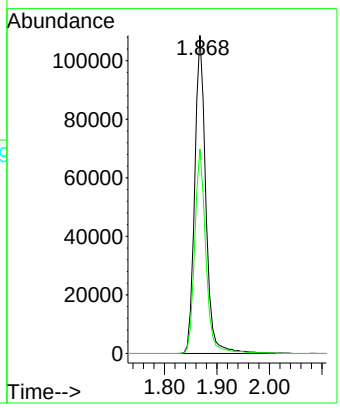




#7
Trichlorofluoromethane
Concen: 40.971 ug/l
RT: 1.868 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:101 Resp: 159151

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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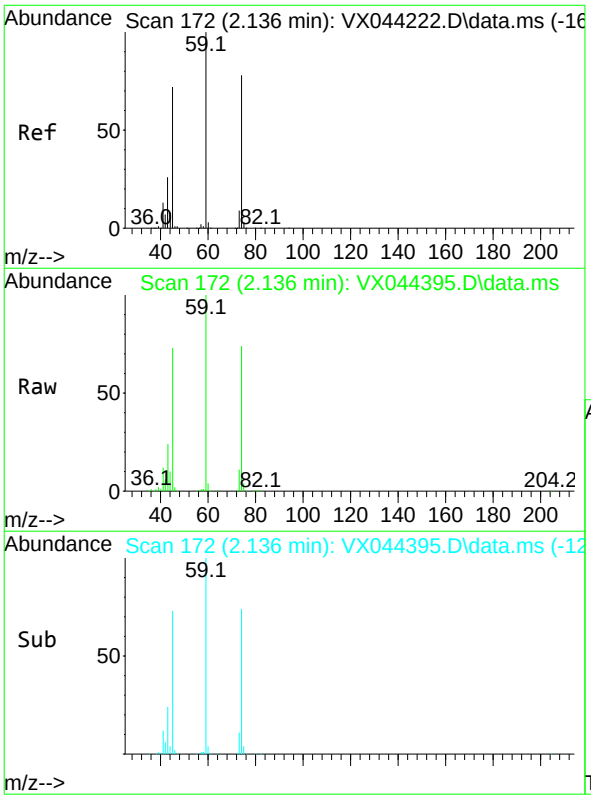
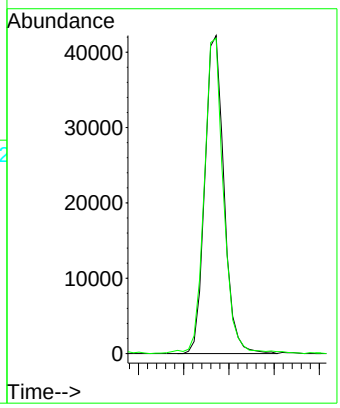
Supervised By :Mahesh Dadoda 12/20/2024

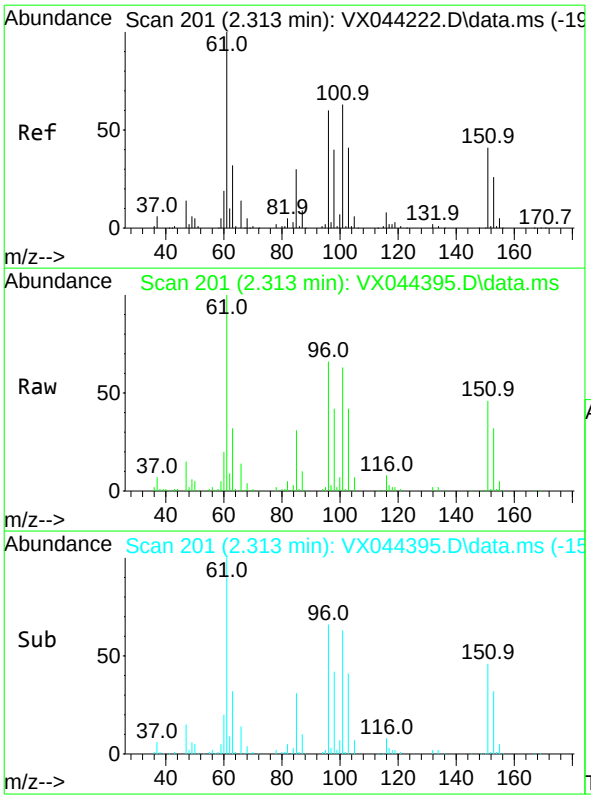


#8
Diethyl Ether
Concen: 46.745 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 74 Resp: 61981

Ion	Ratio	Lower	Upper
74	100		
45	100.6	48.4	145.0

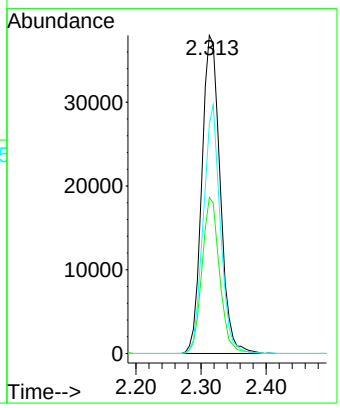




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.265 ug/l
RT: 2.313 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:101 Resp: 74293

Ion	Ratio	Lower	Upper
101	100		
85	47.0	38.5	57.7
151	72.5	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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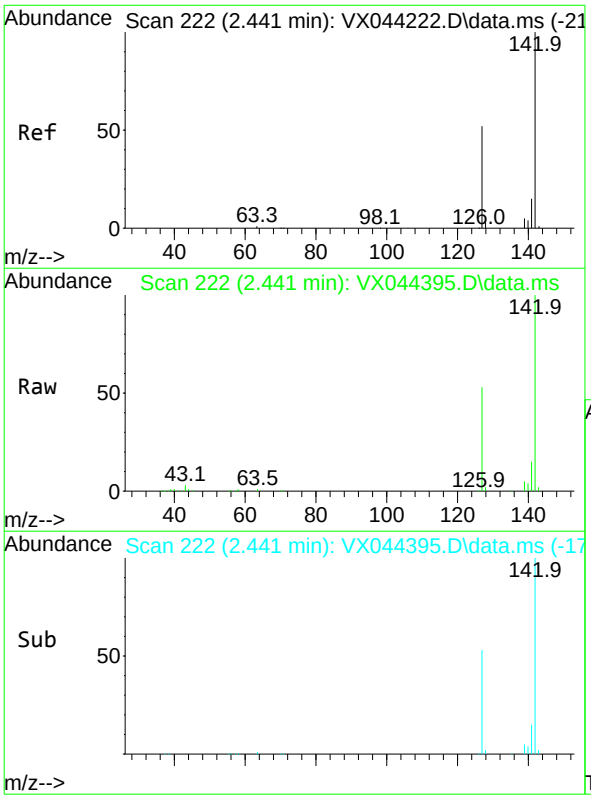
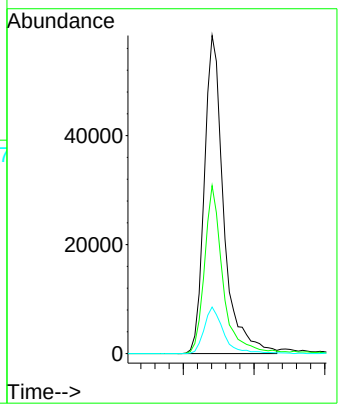
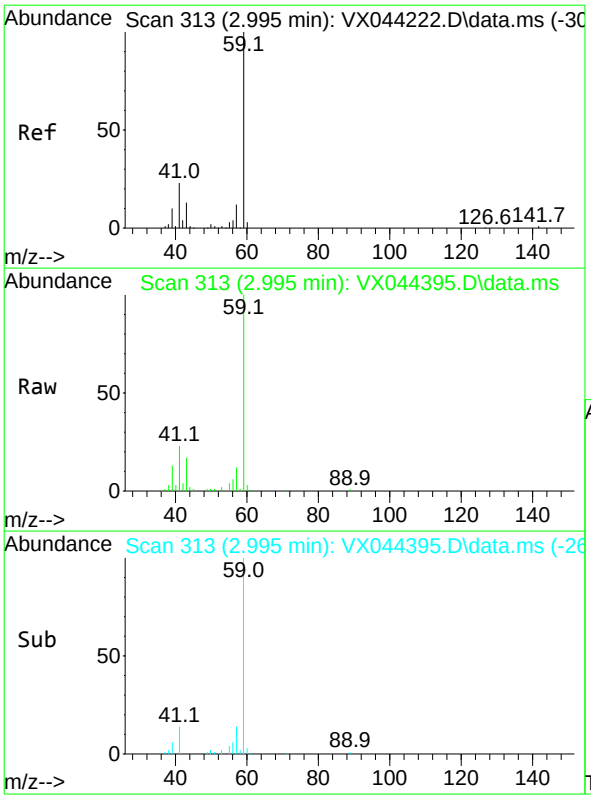


#10
Methyl Iodide
Concen: 53.424 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:142 Resp: 110675

Ion	Ratio	Lower	Upper
142	100		
127	50.4	41.8	62.8
141	14.8	11.5	17.3

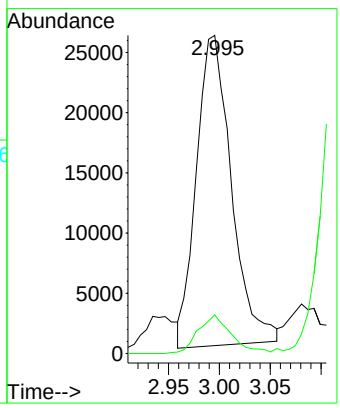




#11
Tert butyl alcohol
Concen: 194.195 ug/l
RT: 2.995 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 59 Resp: 61810

Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
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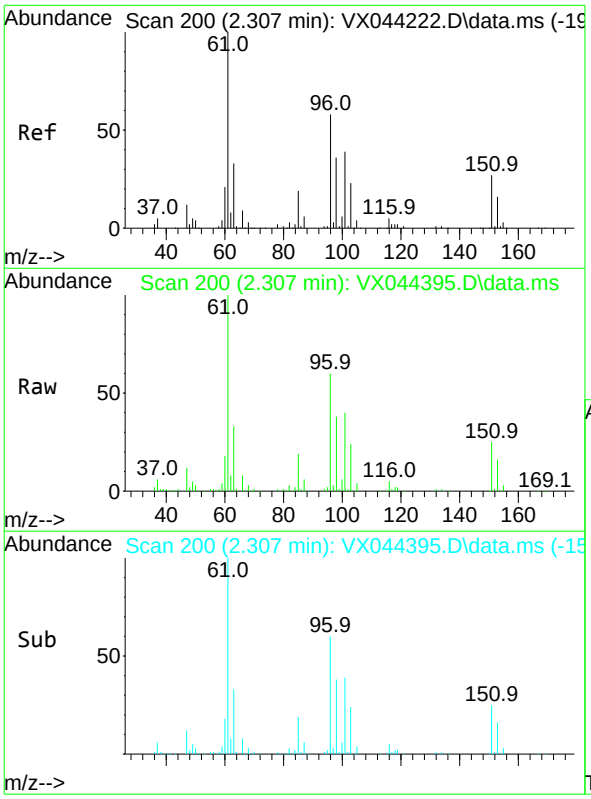
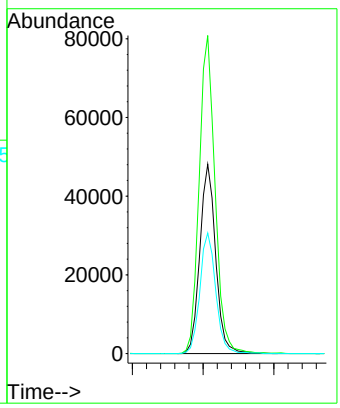
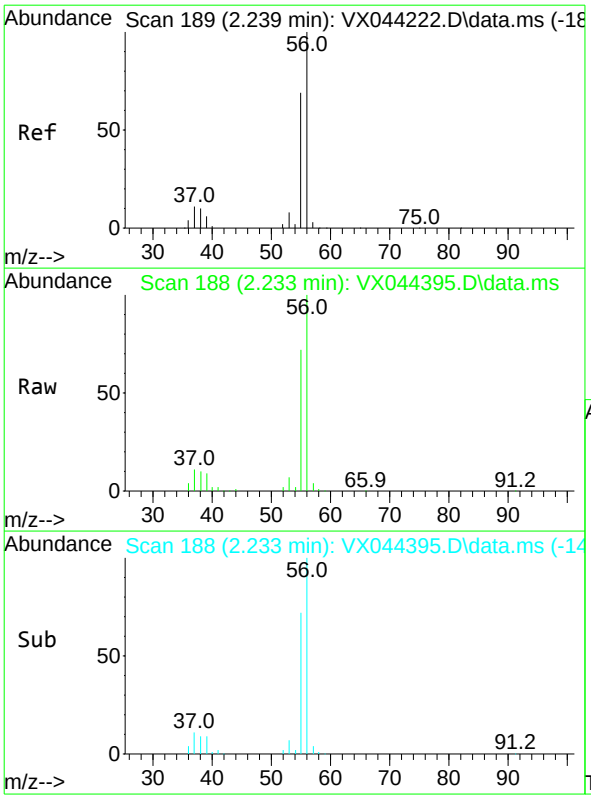


#12
1,1-Dichloroethene
Concen: 51.687 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 96 Resp: 74624

Ion	Ratio	Lower	Upper
96	100		
61	168.0	138.0	207.0
98	63.7	50.0	75.0

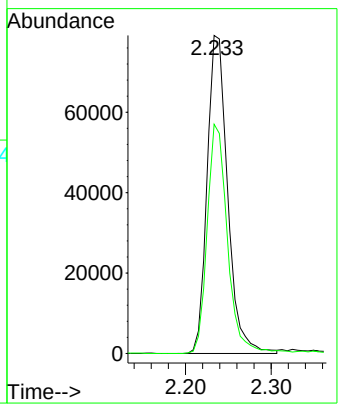




#13
Acrolein
Concen: 285.631 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 56 Resp: 131600

Ion	Ratio	Lower	Upper
56	100		
55	71.3	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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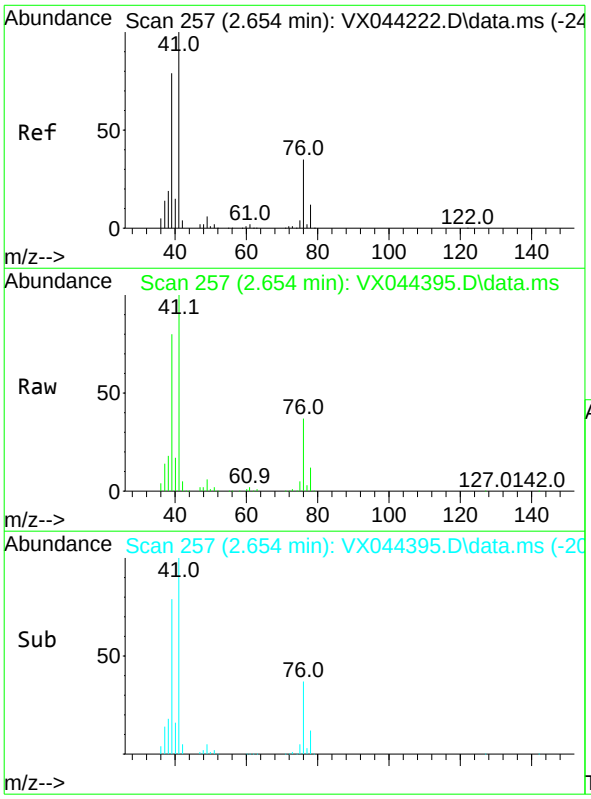
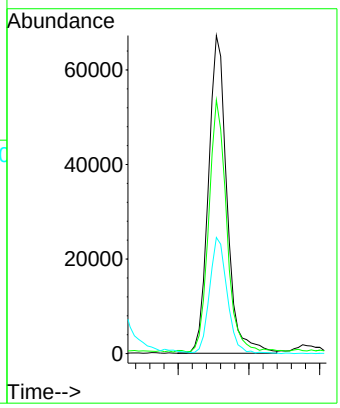
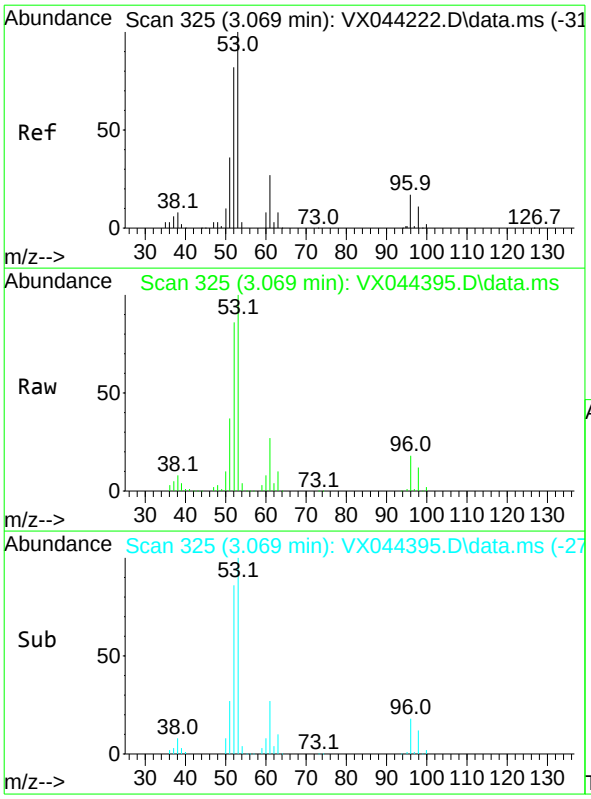


#14
Allyl chloride
Concen: 50.834 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 41 Resp: 122245

Ion	Ratio	Lower	Upper
41	100		
39	76.1	61.9	92.9
76	34.9	27.4	41.2

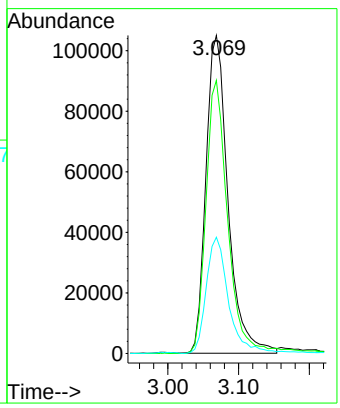




#15
Acrylonitrile
Concen: 258.021 ug/l
RT: 3.069 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 53 Resp: 227490

Ion	Ratio	Lower	Upper
53	100		
52	86.0	67.4	101.0
51	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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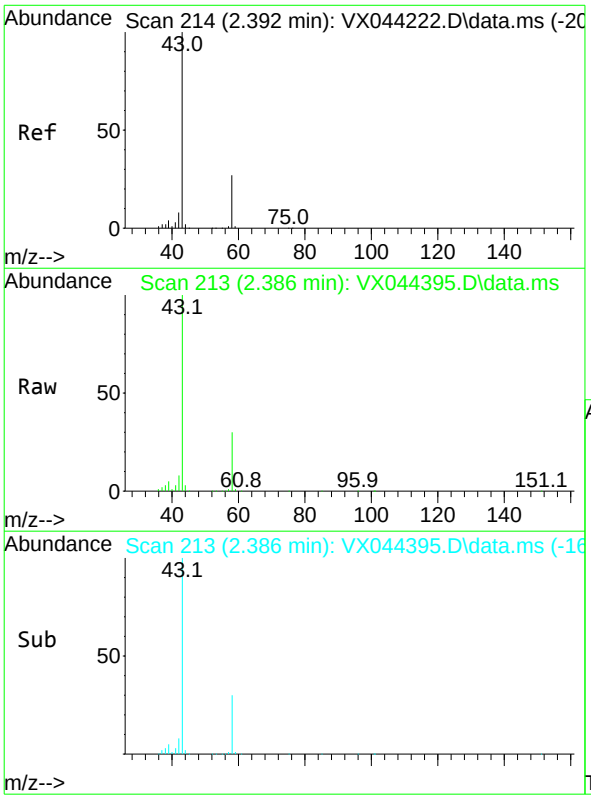
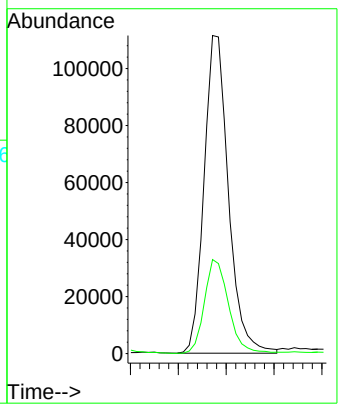
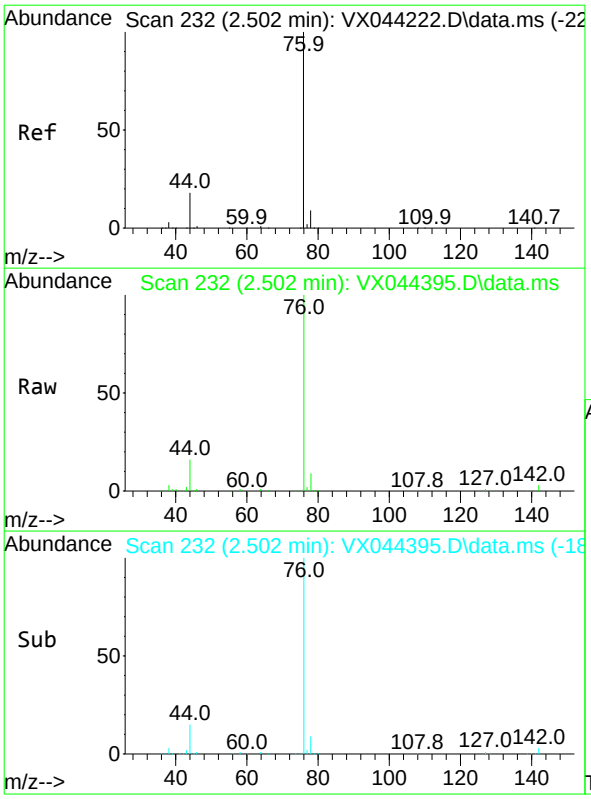


#16
Acetone
Concen: 214.267 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 197278

Ion	Ratio	Lower	Upper
43	100		
58	29.5	21.6	32.4

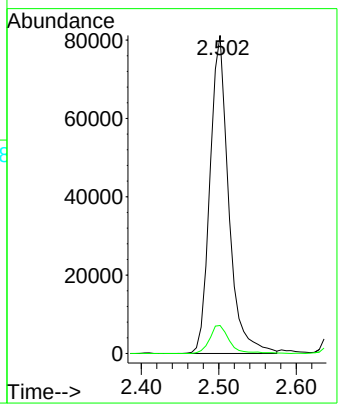




#17
Carbon Disulfide
Concen: 49.563 ug/l
RT: 2.502 min Scan# 23
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 76 Resp: 136022

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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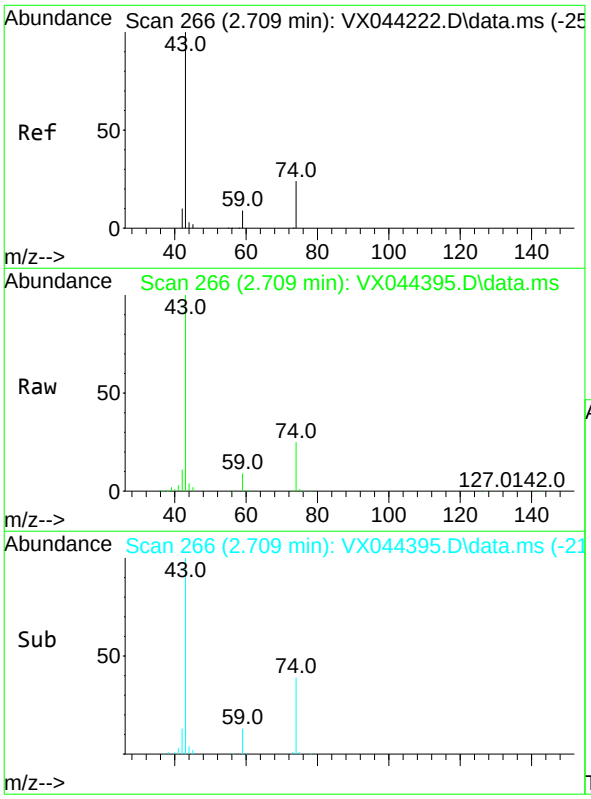
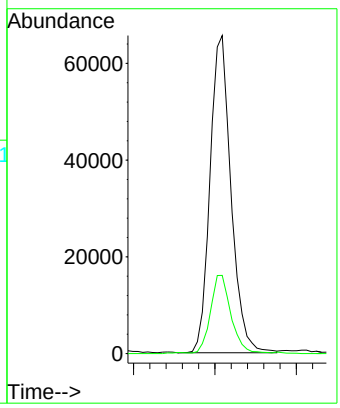
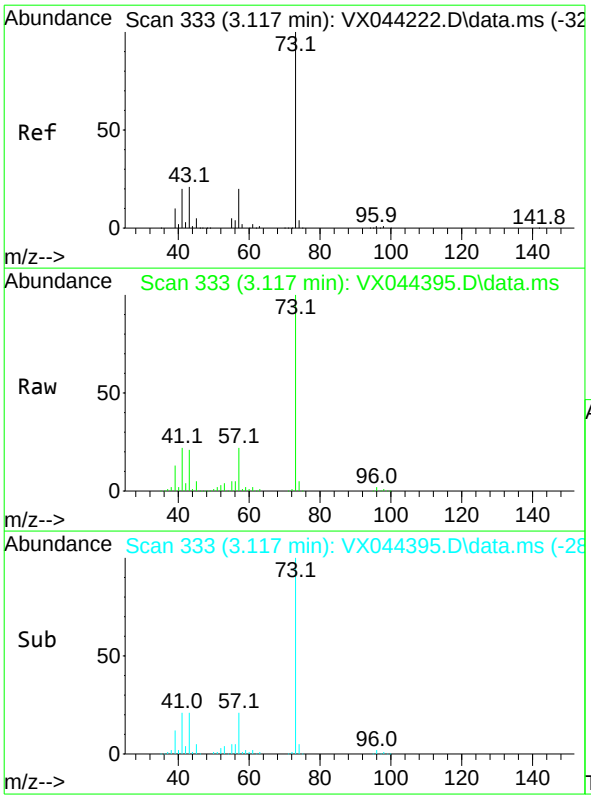


#18
Methyl Acetate
Concen: 49.494 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 117496

Ion	Ratio	Lower	Upper
43	100		
74	23.4	17.7	26.5

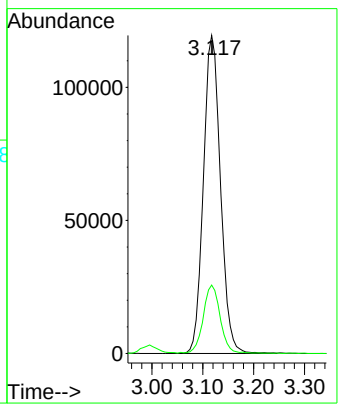




#19
Methyl tert-butyl Ether
Concen: 49.479 ug/l
RT: 3.117 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 73 Resp: 278770

Ion	Ratio	Lower	Upper
73	100		
57	21.4	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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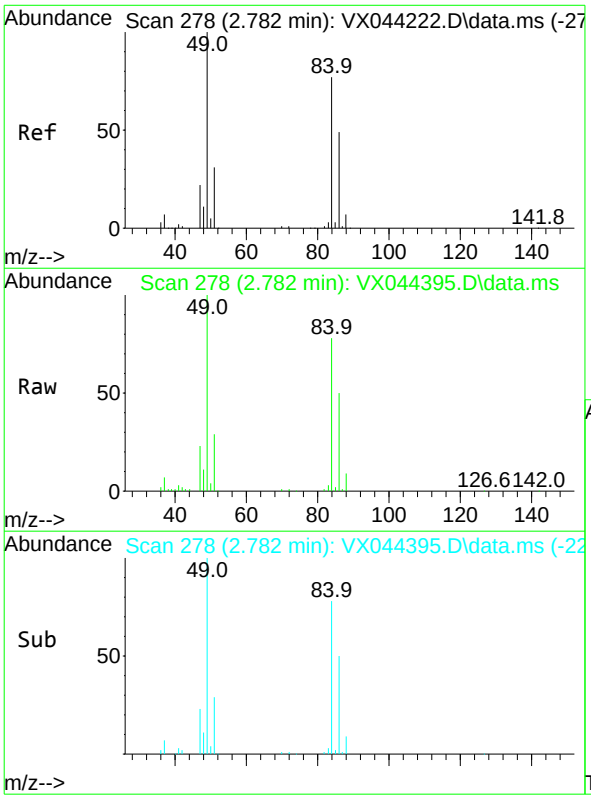
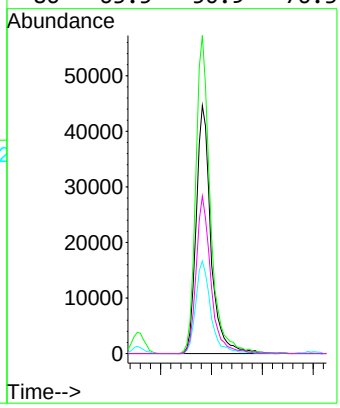
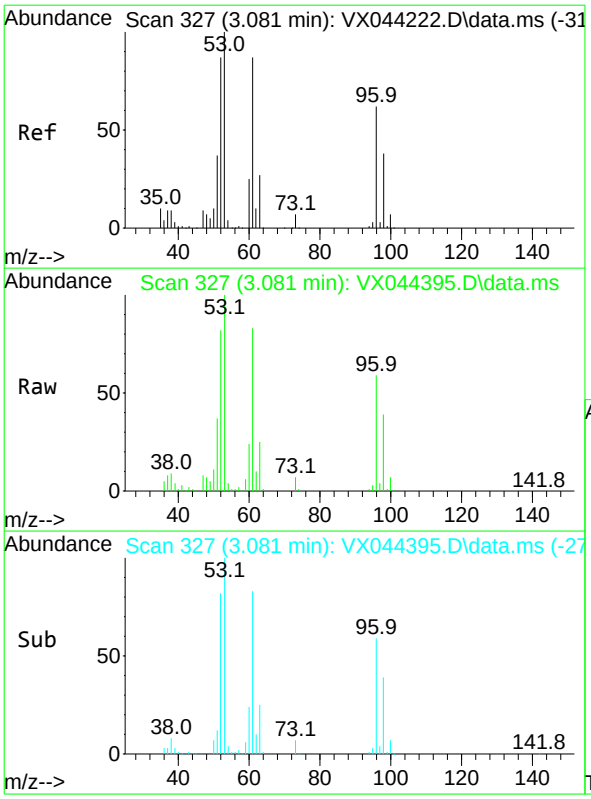


#20
Methylene Chloride
Concen: 51.772 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 84 Resp: 89530

Ion	Ratio	Lower	Upper
84	100		
49	128.2	104.2	156.4
51	37.2	32.2	48.4
86	63.5	50.9	76.3

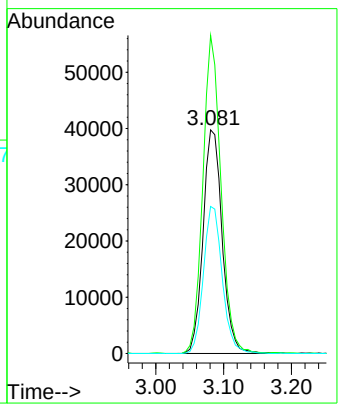




#21
trans-1,2-Dichloroethene
Concen: 50.653 ug/l
RT: 3.081 min Scan# 32
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 96 Resp: 77722

Ion	Ratio	Lower	Upper
96	100		
61	142.2	112.0	168.0
98	65.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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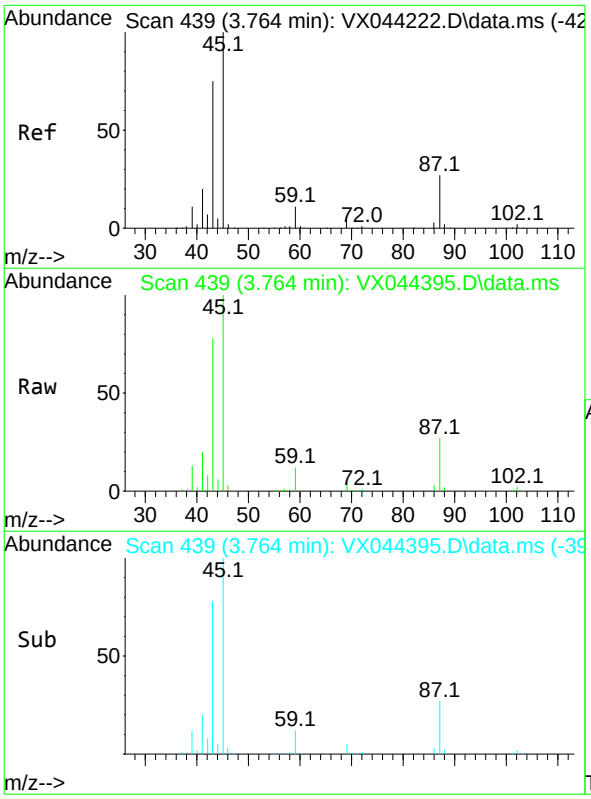
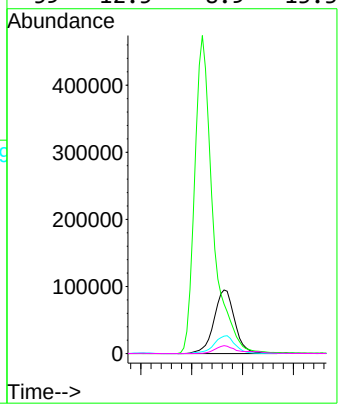
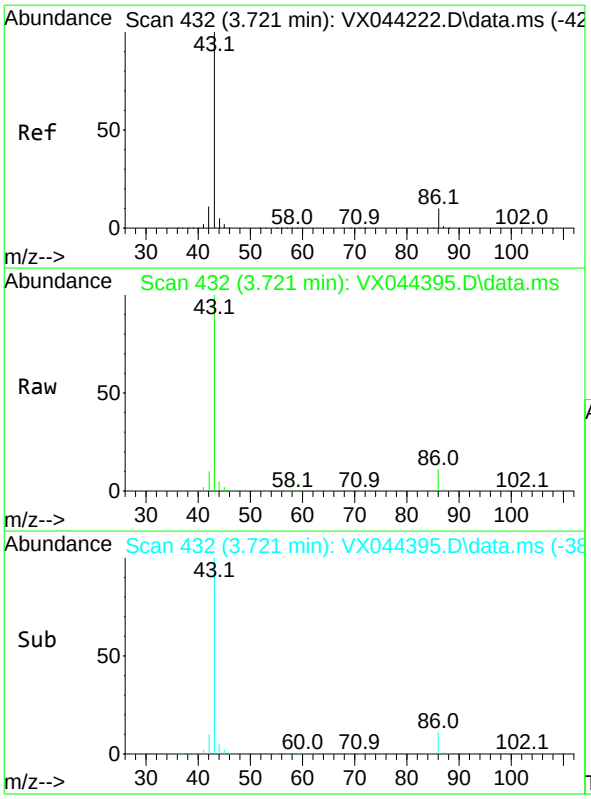


#22
Diisopropyl ether
Concen: 49.594 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 45 Resp: 268559

Ion	Ratio	Lower	Upper
45	100		
43	77.8	60.2	90.2
87	27.4	21.2	31.8
59	12.5	8.9	13.3

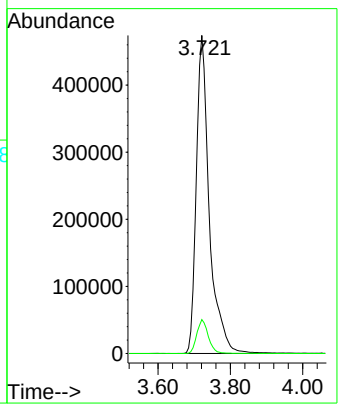




#23
Vinyl Acetate
Concen: 269.370 ug/l
RT: 3.721 min Scan# 43
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 1185904

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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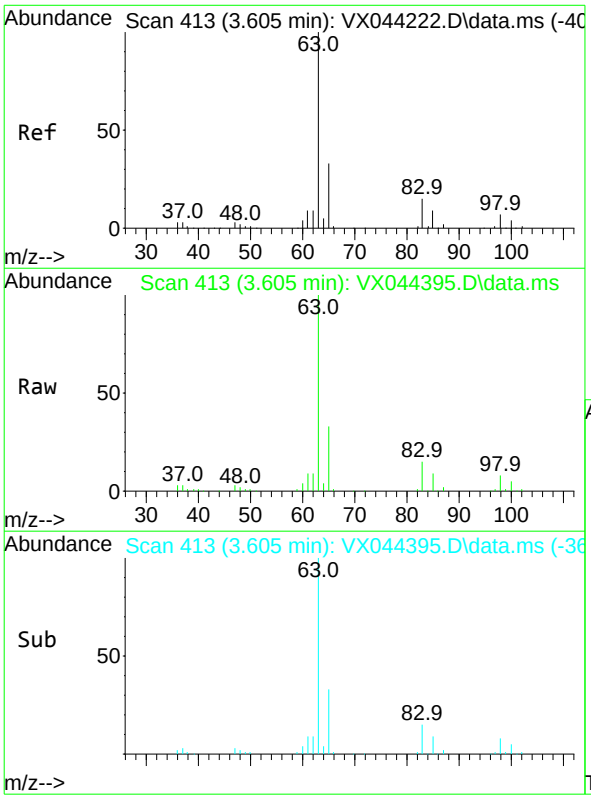
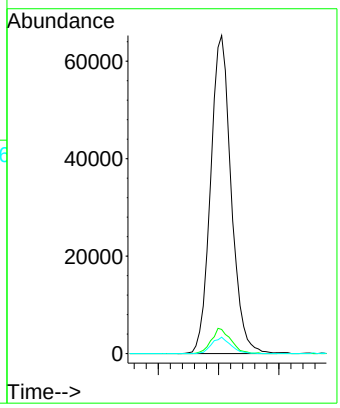
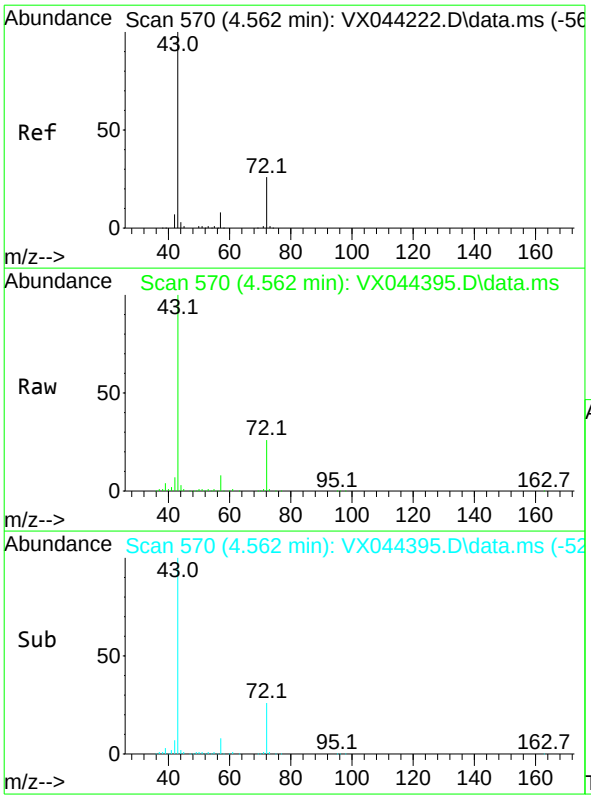


#24
1,1-Dichloroethane
Concen: 51.258 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 63 Resp: 154722

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.6	10.8
100	5.2	2.1	6.3

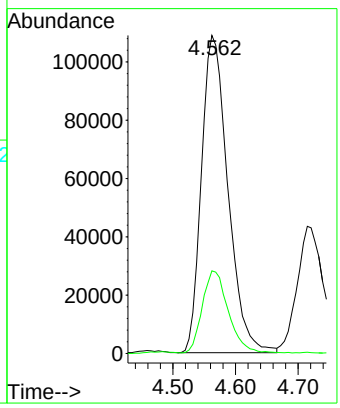




#25
2-Butanone
Concen: 244.389 ug/l
RT: 4.562 min Scan# 57
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 319886

Ion	Ratio	Lower	Upper
43	100		
72	25.8	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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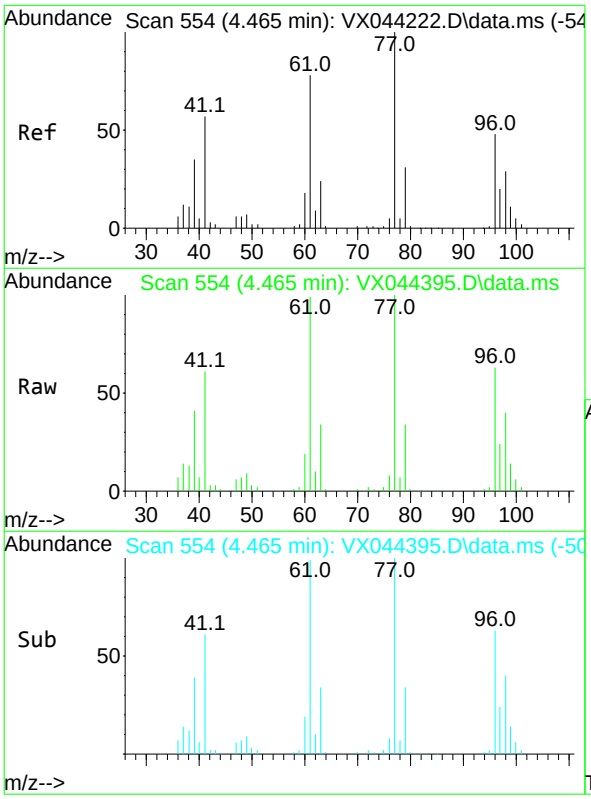
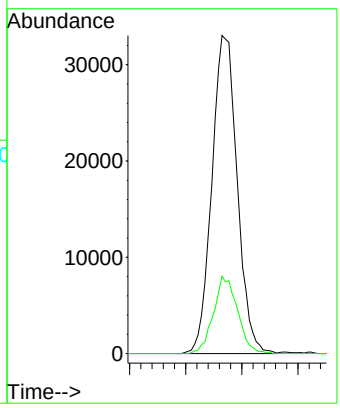
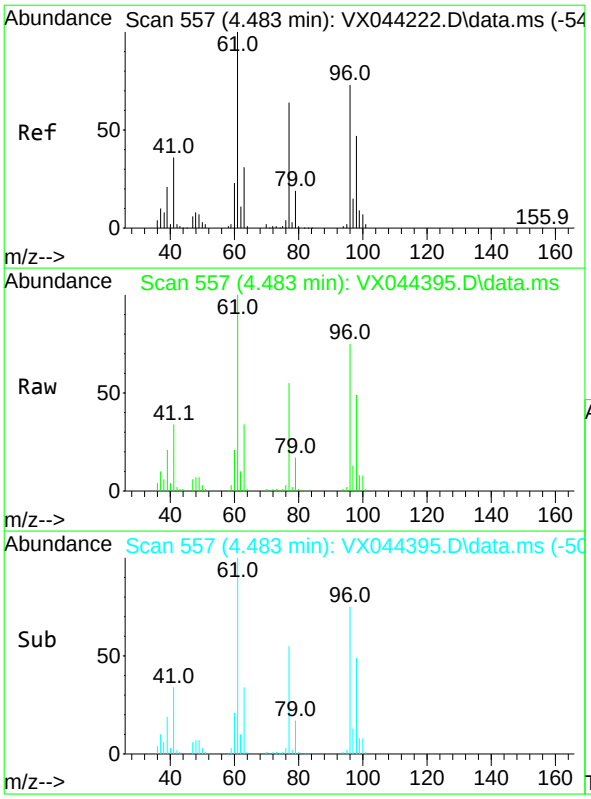


#26
2,2-Dichloropropane
Concen: 42.309 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 77 Resp: 103750

Ion	Ratio	Lower	Upper
77	100		
97	23.1	10.7	32.1

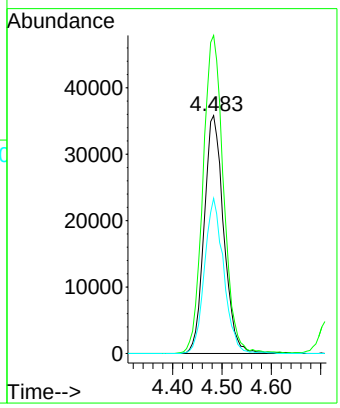




#27
cis-1,2-Dichloroethene
Concen: 50.424 ug/l
RT: 4.483 min Scan# 55
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 96 Resp: 98262

Ion	Ratio	Lower	Upper
96	100		
61	140.8	0.0	299.0
98	64.1	0.0	129.0



Instrument :
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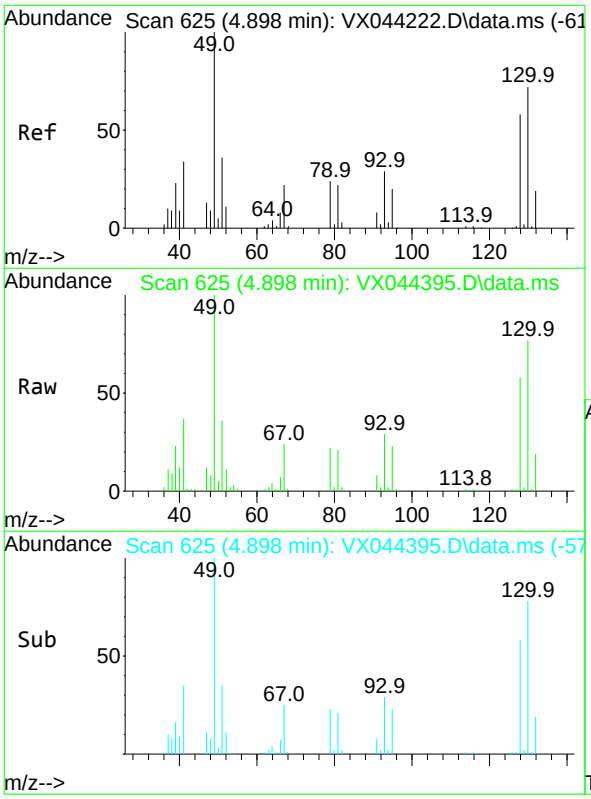
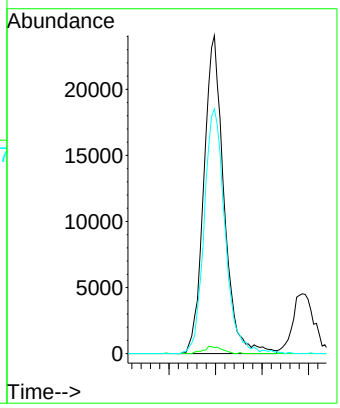
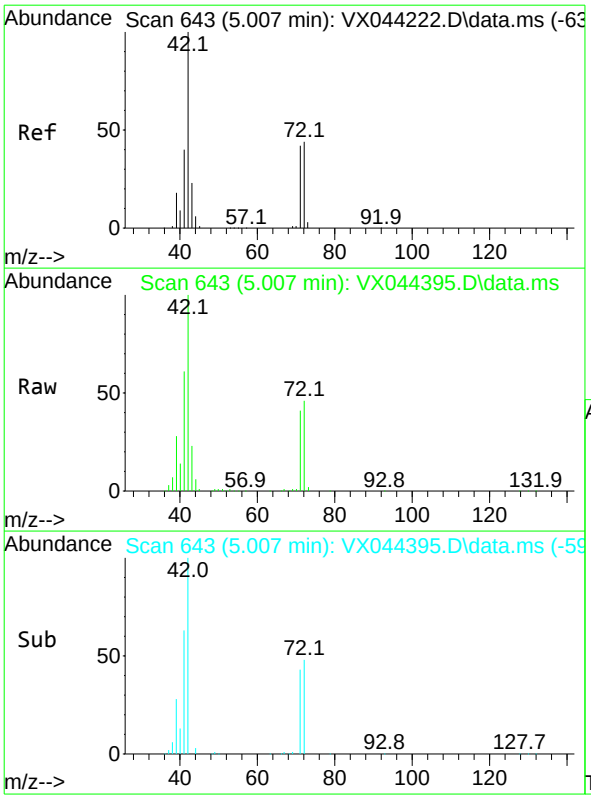


#28
Bromochloromethane
Concen: 48.821 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 49 Resp: 72263

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	79.5	62.1	93.1

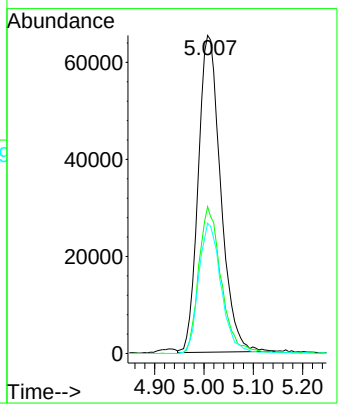




#29
Tetrahydrofuran
Concen: 245.825 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 42 Resp: 206531

Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.0	55.6
71	41.1	33.6	50.4



Instrument :
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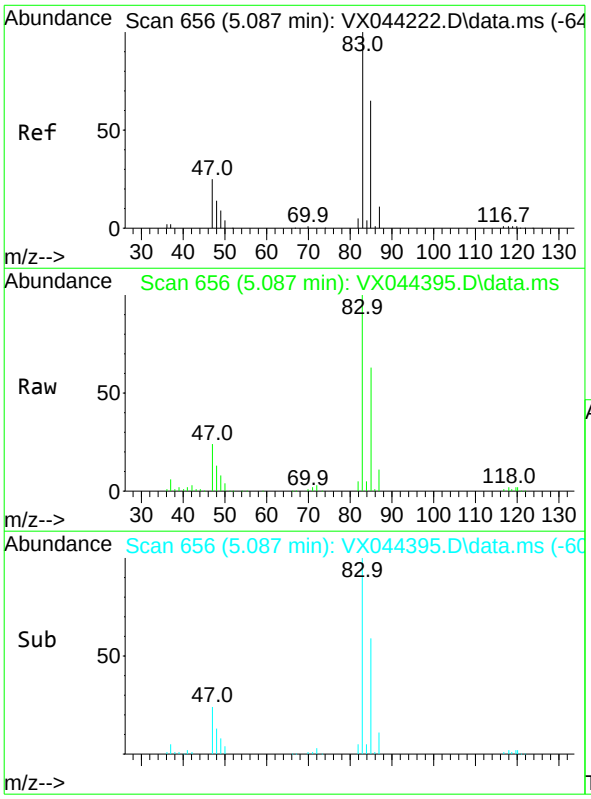
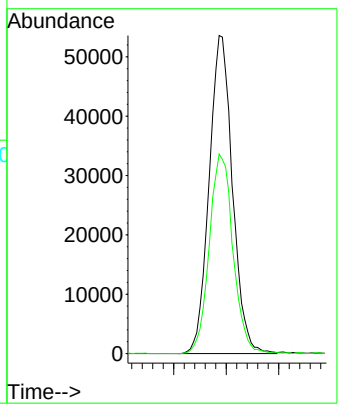
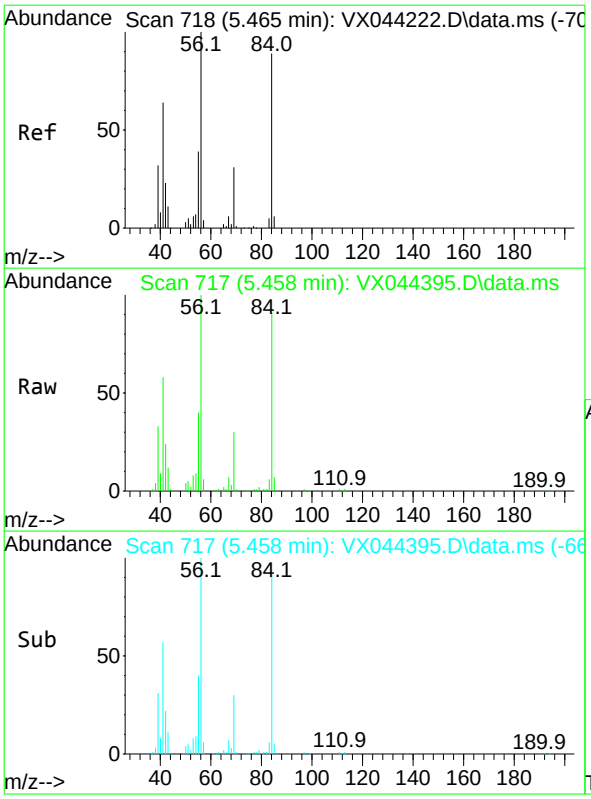


#30
Chloroform
Concen: 48.758 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 83 Resp: 165359

Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.6	77.4

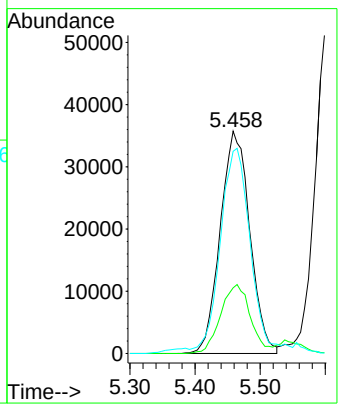




#31
Cyclohexane
Concen: 46.246 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 56 Resp: 112724

Ion	Ratio	Lower	Upper
56	100		
69	29.5	24.7	37.1
84	88.9	71.0	106.6



Instrument :
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ClientSampleId :
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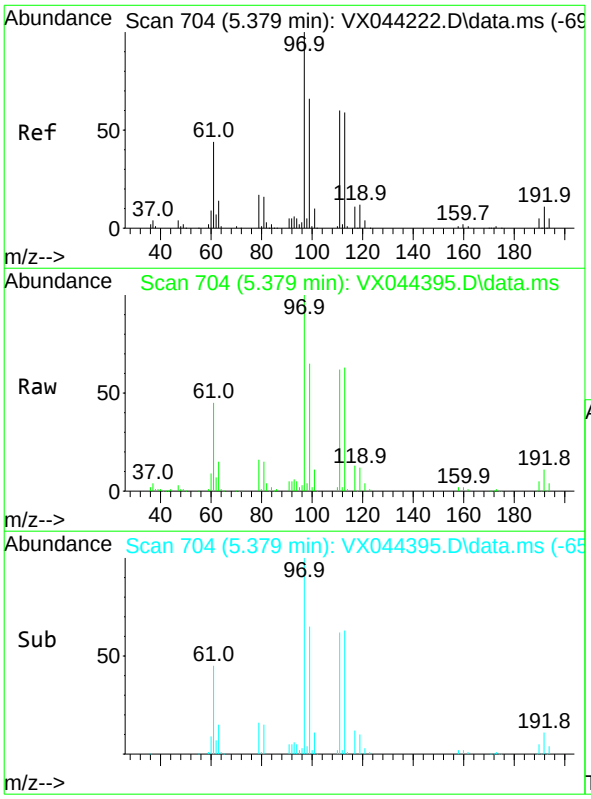
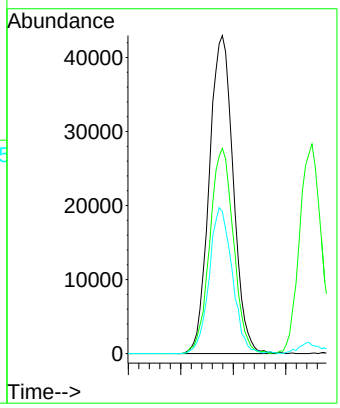
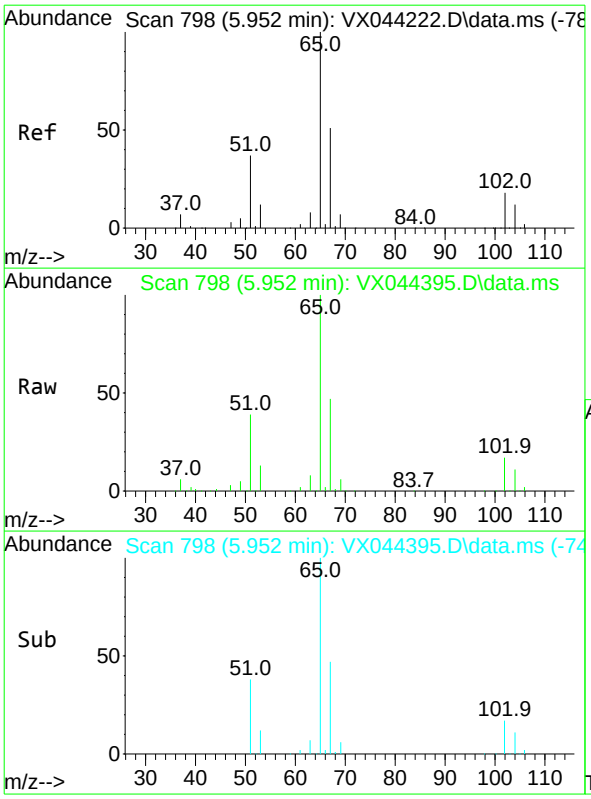


#32
1,1,1-Trichloroethane
Concen: 48.484 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 97 Resp: 136491

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.8	76.2
61	44.0	35.2	52.8

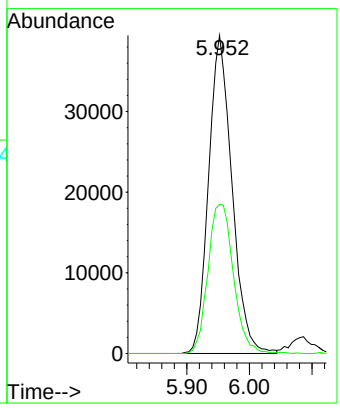




#33
1,2-Dichloroethane-d4
Concen: 45.184 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 65 Resp: 102044

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6



Instrument :
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ClientSampleId :
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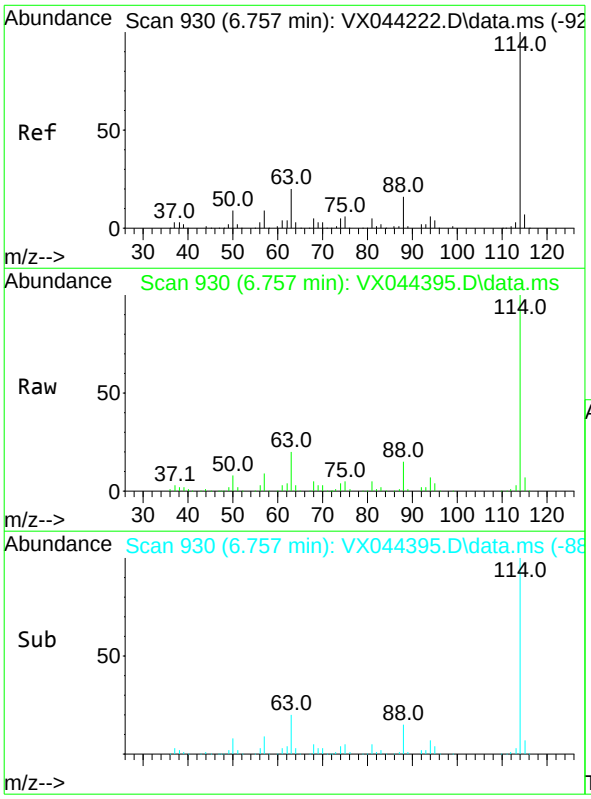
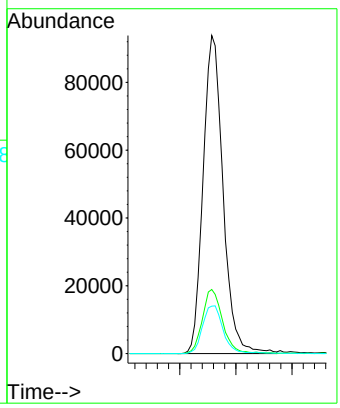
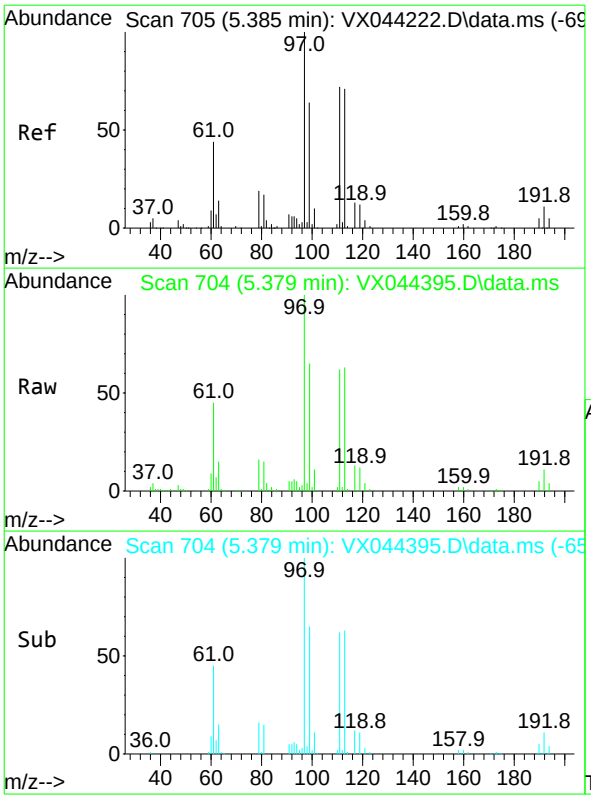


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:114 Resp: 231562

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.6
88	14.9	0.0	31.8

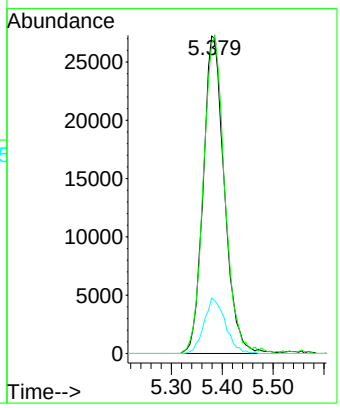




#35
Dibromofluoromethane
Concen: 49.020 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:113 Resp: 78617

Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.4	120.6
192	17.6	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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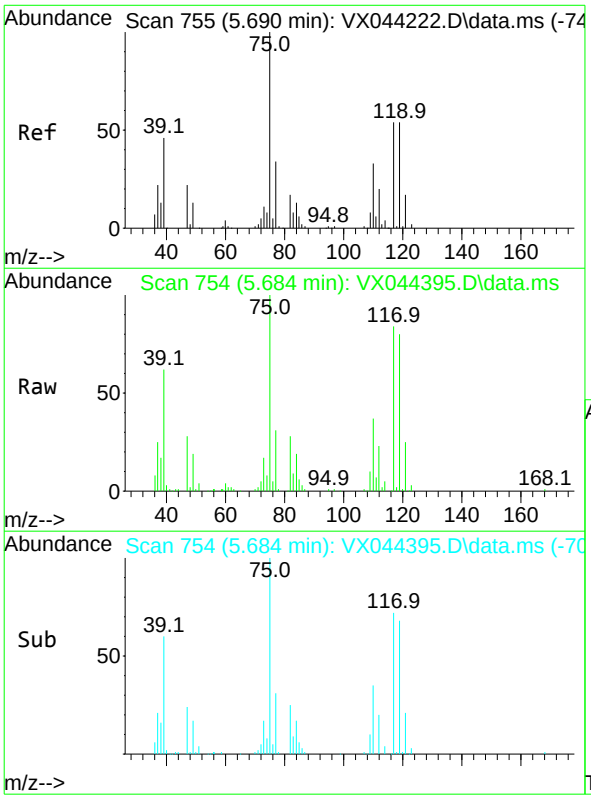
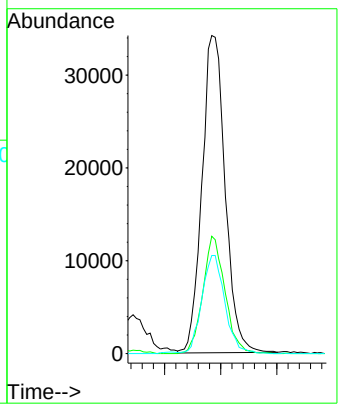
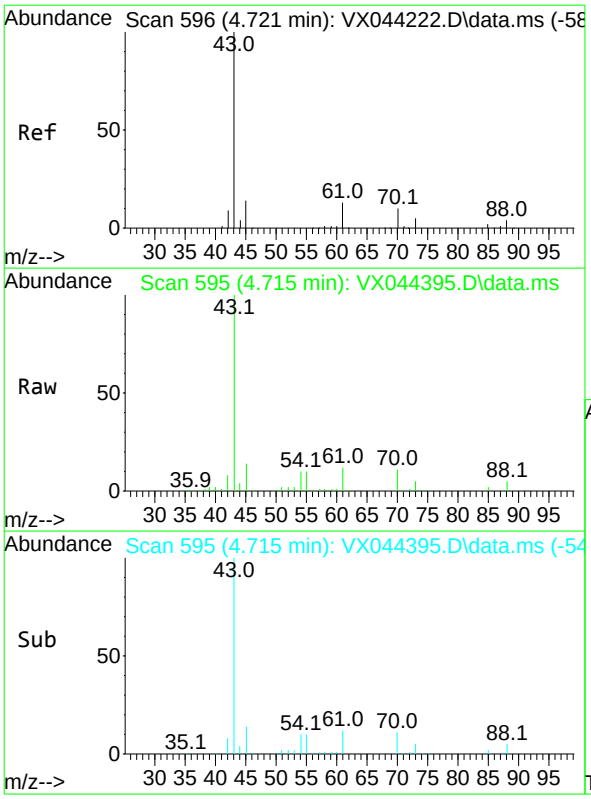


#36
1,1-Dichloropropene
Concen: 47.323 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 98106

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.3	51.7
77	30.7	25.4	38.0

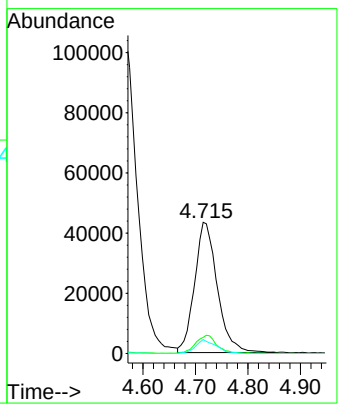




#37
Ethyl Acetate
Concen: 50.635 ug/l
RT: 4.715 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 129759

Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.8	14.8
70	9.6	7.7	11.5



Instrument :
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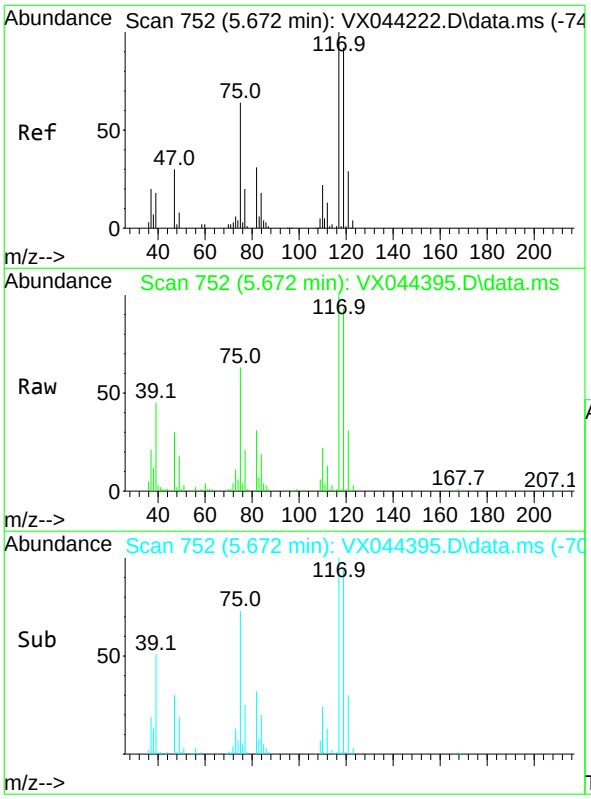
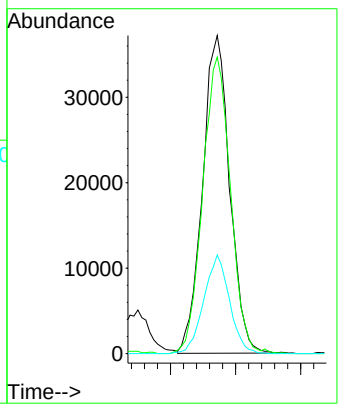
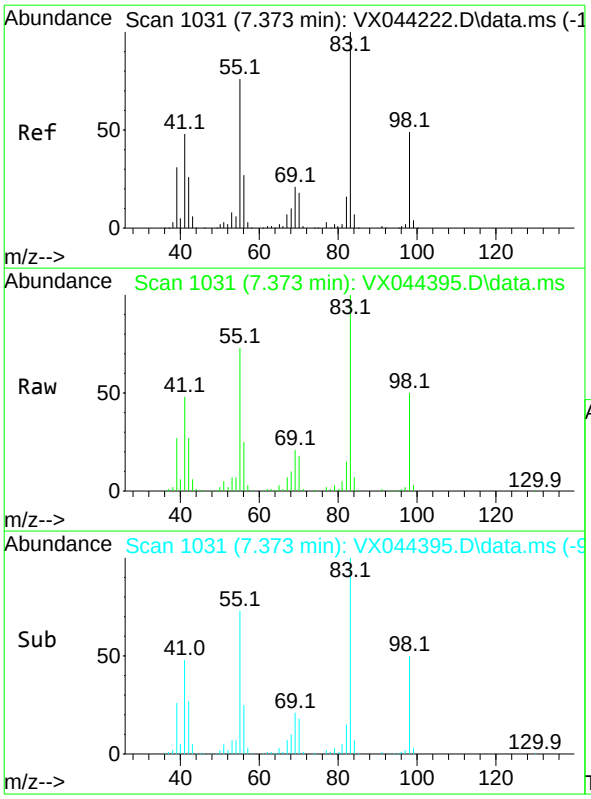


#38
Carbon Tetrachloride
Concen: 48.318 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:117 Resp: 107841

Ion	Ratio	Lower	Upper
117	100		
119	93.2	74.2	111.4
121	31.1	23.0	34.6

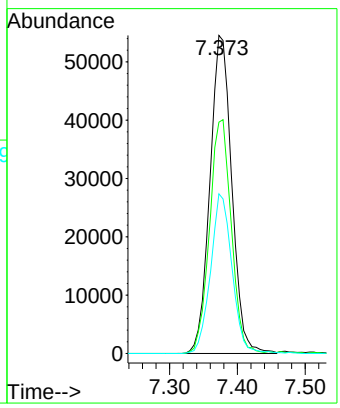




#39
Methylcyclohexane
Concen: 49.289 ug/l
RT: 7.373 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 83 Resp: 122156

Ion	Ratio	Lower	Upper
83	100		
55	72.7	60.7	91.1
98	50.2	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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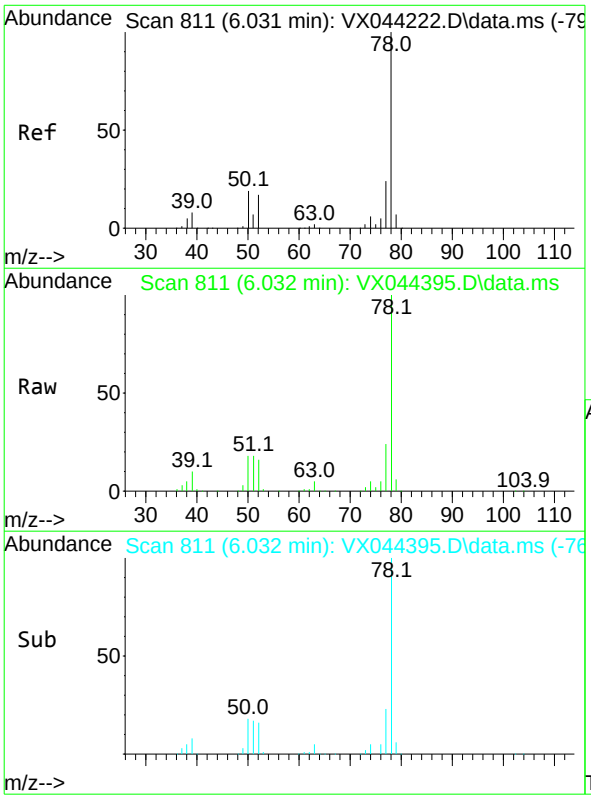
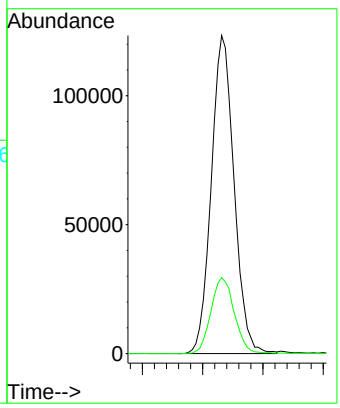
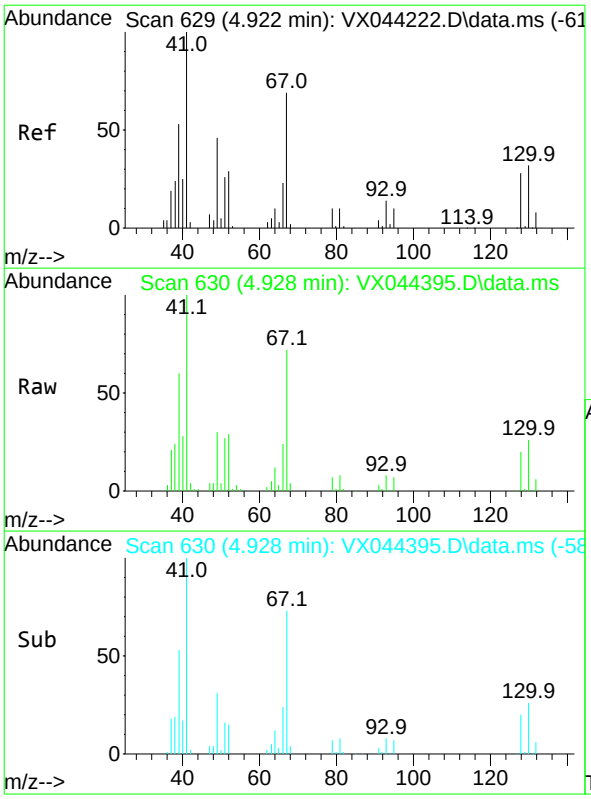


#40
Benzene
Concen: 51.403 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 78 Resp: 323543

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9

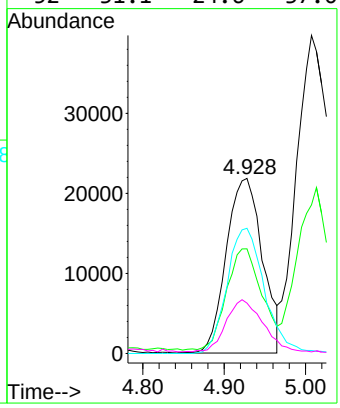




#41
Methacrylonitrile
Concen: 49.647 ug/l
RT: 4.928 min Scan# 63
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 41 Resp: 67557

Ion	Ratio	Lower	Upper
41	100		
39	56.7	44.2	66.4
67	74.5	57.2	85.8
52	31.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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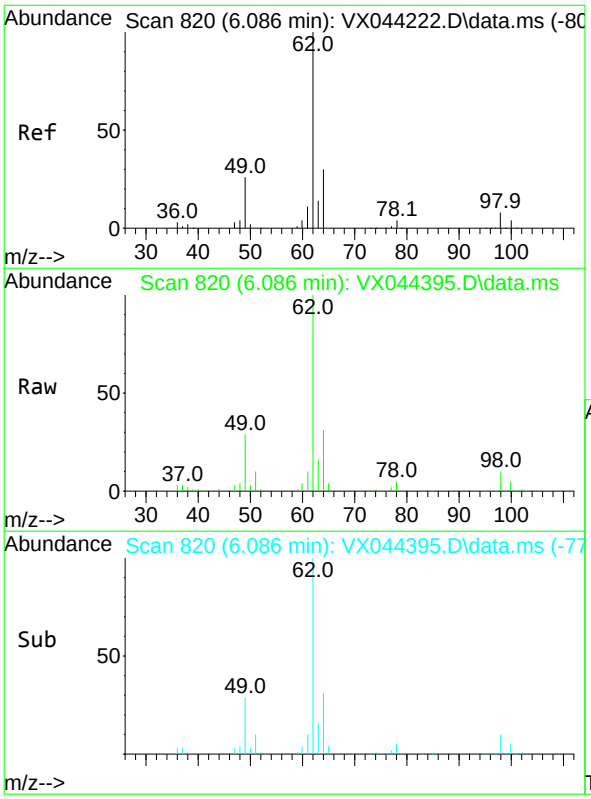
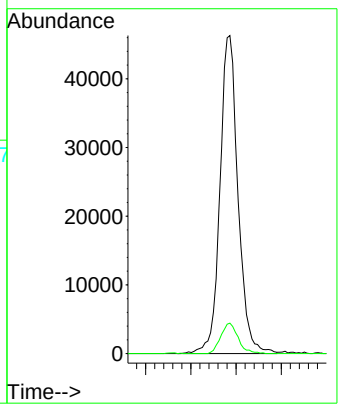
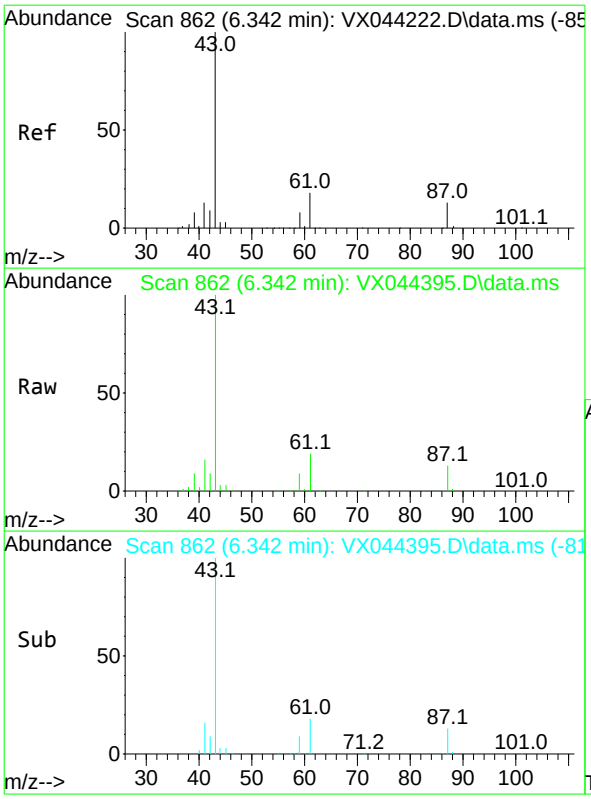


#42
1,2-Dichloroethane
Concen: 49.504 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 62 Resp: 128355

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	15.8

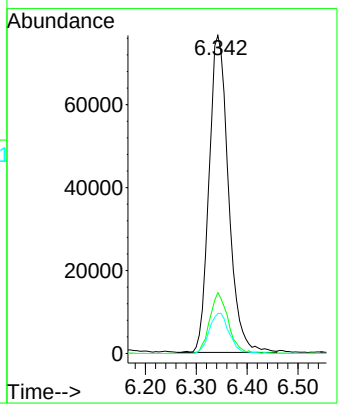




#43
Isopropyl Acetate
Concen: 50.693 ug/l
RT: 6.342 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 203040

Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.2	21.2
87	12.9	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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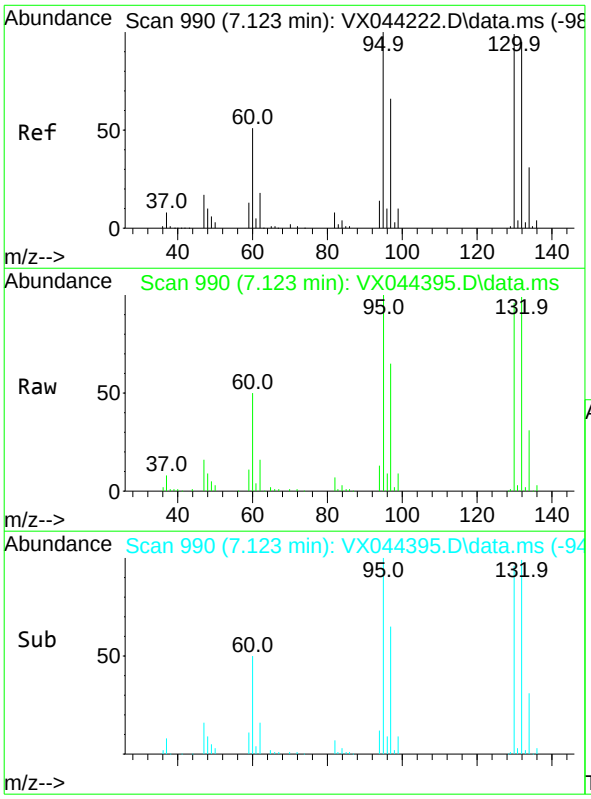
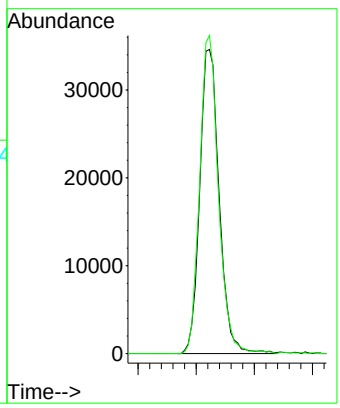
Supervised By :Mahesh Dadoda 12/20/2024

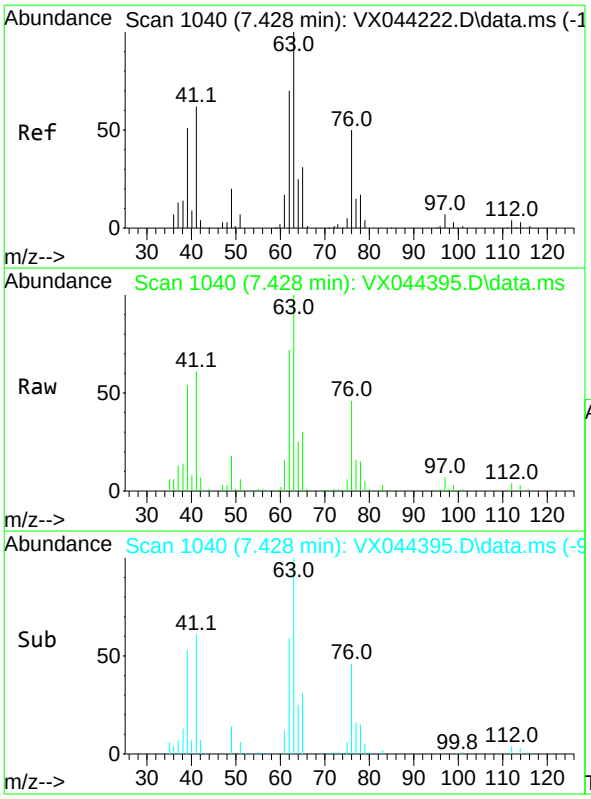


#44
Trichloroethene
Concen: 51.229 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:130 Resp: 80410

Ion	Ratio	Lower	Upper
130	100		
95	104.6	0.0	201.4

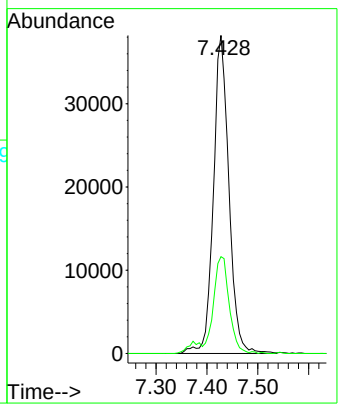




#45
1,2-Dichloropropane
Concen: 50.319 ug/l
RT: 7.428 min Scan# 10
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 63 Resp: 80917

Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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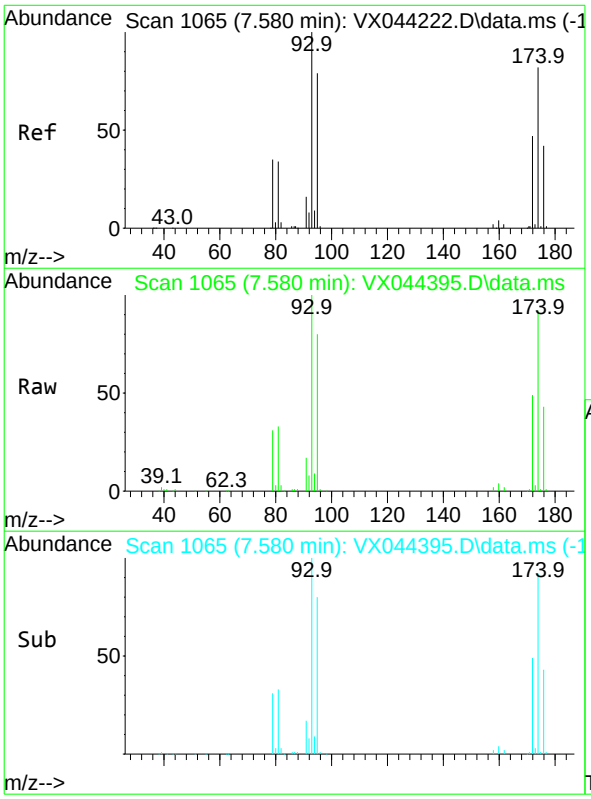
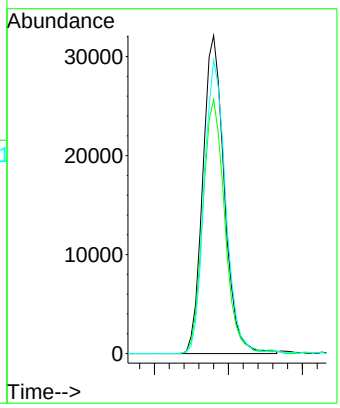
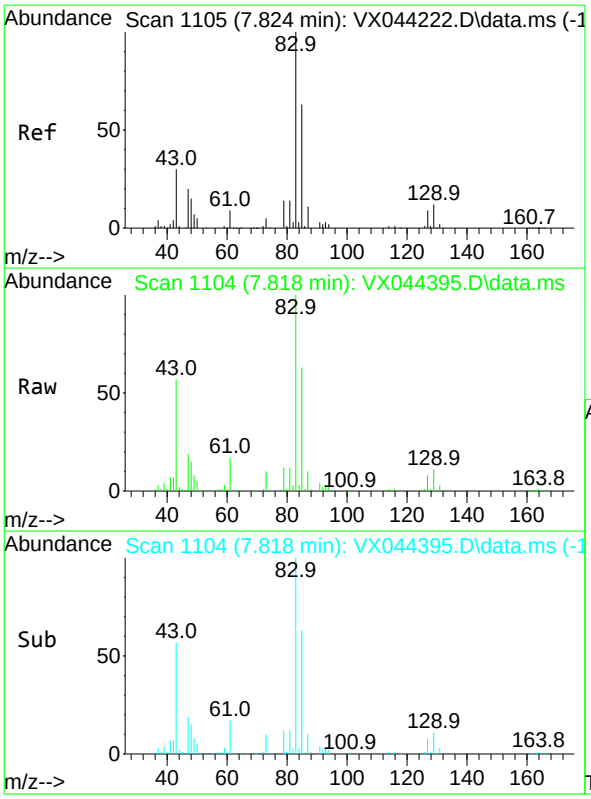


#46
Dibromomethane
Concen: 51.979 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 93 Resp: 64847

Ion	Ratio	Lower	Upper
93	100		
95	80.8	65.4	98.2
174	92.7	67.9	101.9

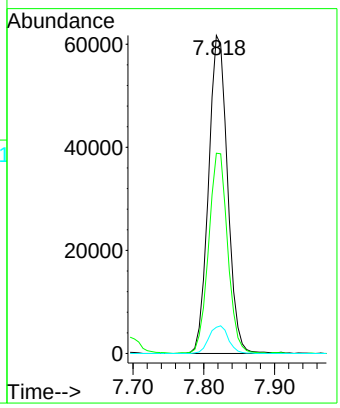




#47
Bromodichloromethane
Concen: 53.349 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 83 Resp: 114945

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.6	75.8
127	8.2	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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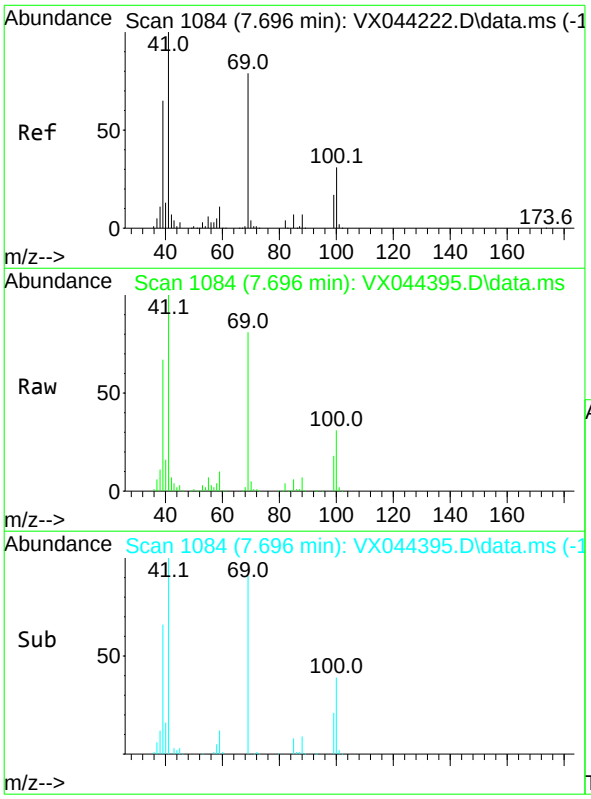
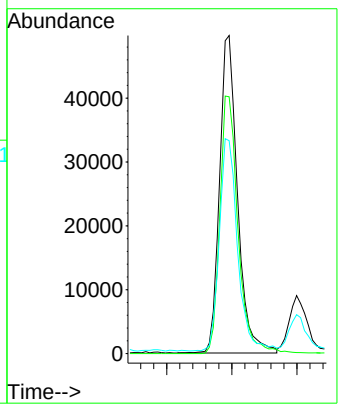
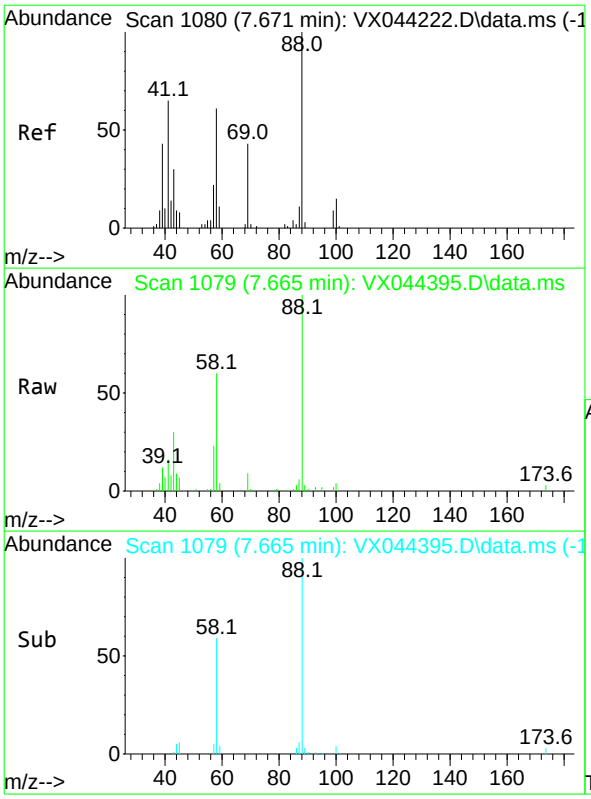


#48
Methyl methacrylate
Concen: 49.082 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 41 Resp: 95430

Ion	Ratio	Lower	Upper
41	100		
69	82.3	62.4	93.6
39	67.7	53.3	79.9

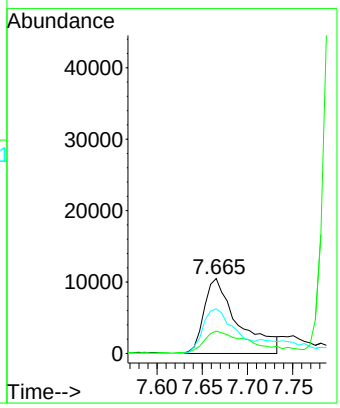




#49
1,4-Dioxane
Concen: 854.459 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 88 Resp: 27544

Ion	Ratio	Lower	Upper
88	100		
43	41.5	27.1	40.7#
58	56.6	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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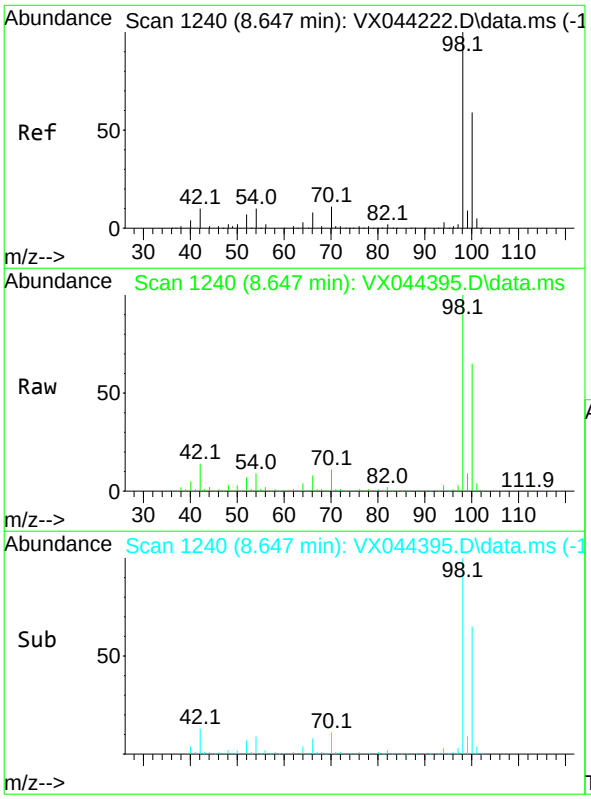
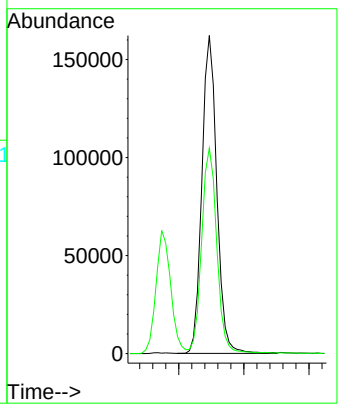
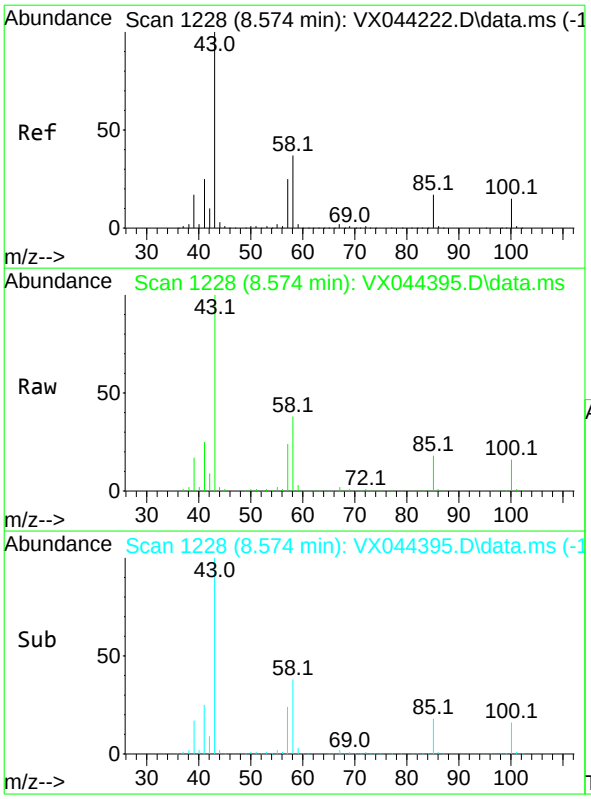


#50
Toluene-d8
Concen: 47.694 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 98 Resp: 258060

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3

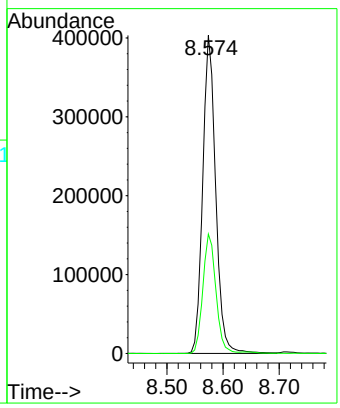




#51
4-Methyl-2-Pentanone
Concen: 251.054 ug/l
RT: 8.574 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 646548

Ion	Ratio	Lower	Upper
43	100		
58	37.8	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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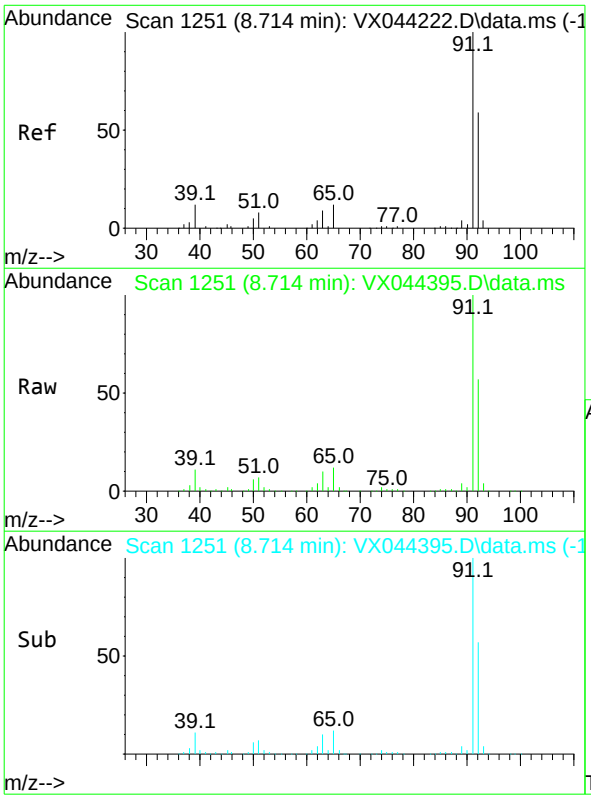
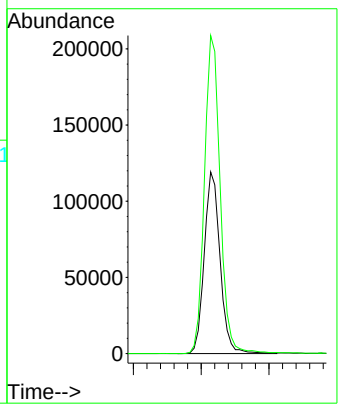
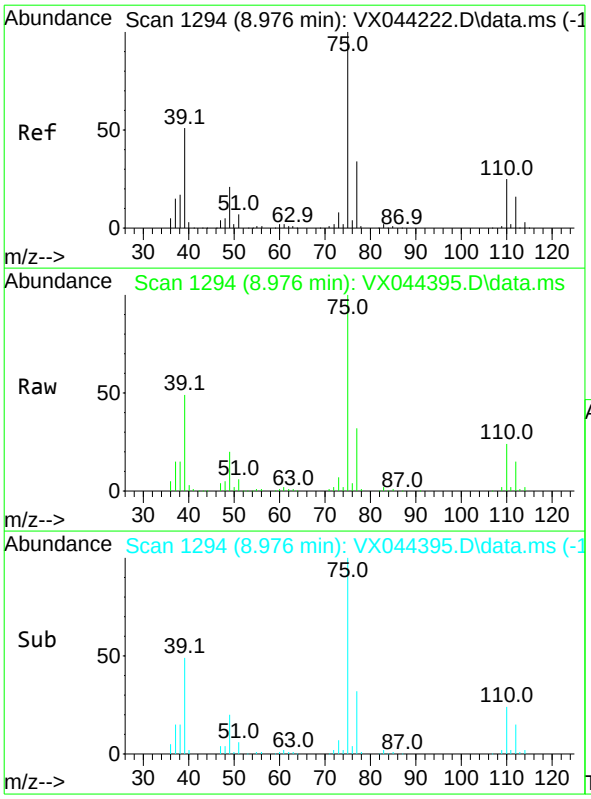


#52
Toluene
Concen: 48.790 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 92 Resp: 192849

Ion	Ratio	Lower	Upper
92	100		
91	174.7	137.0	205.6

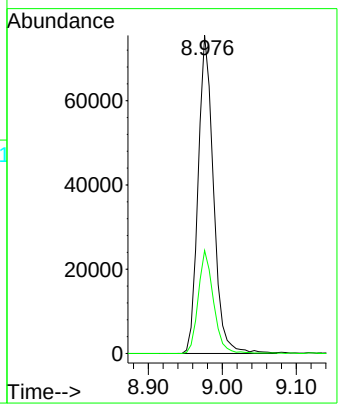




#53
t-1,3-Dichloropropene
Concen: 47.246 ug/l
RT: 8.976 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 108831

Ion	Ratio	Lower	Upper
75	100		
77	32.4	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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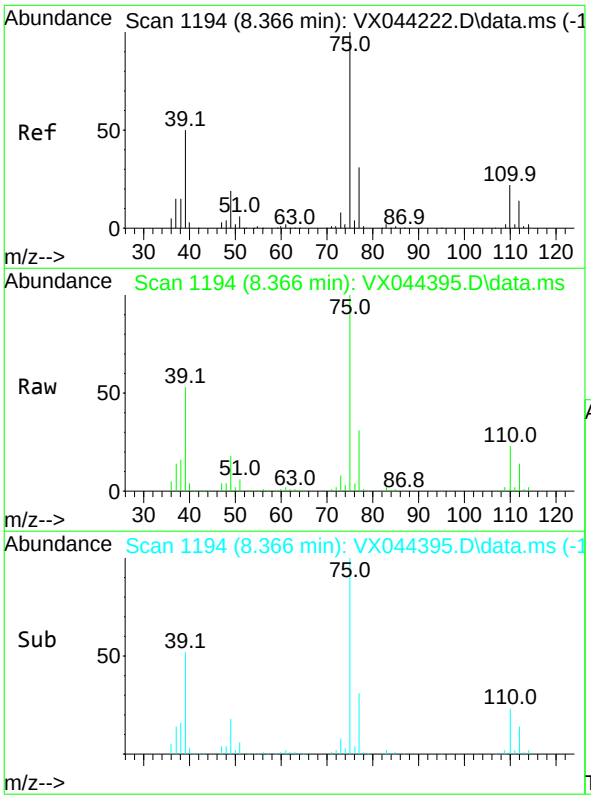
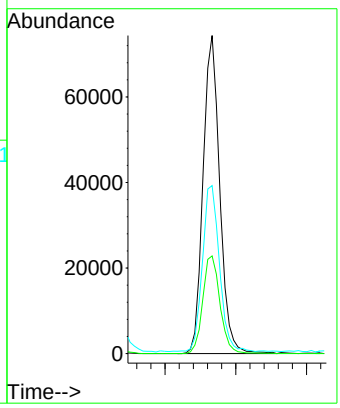
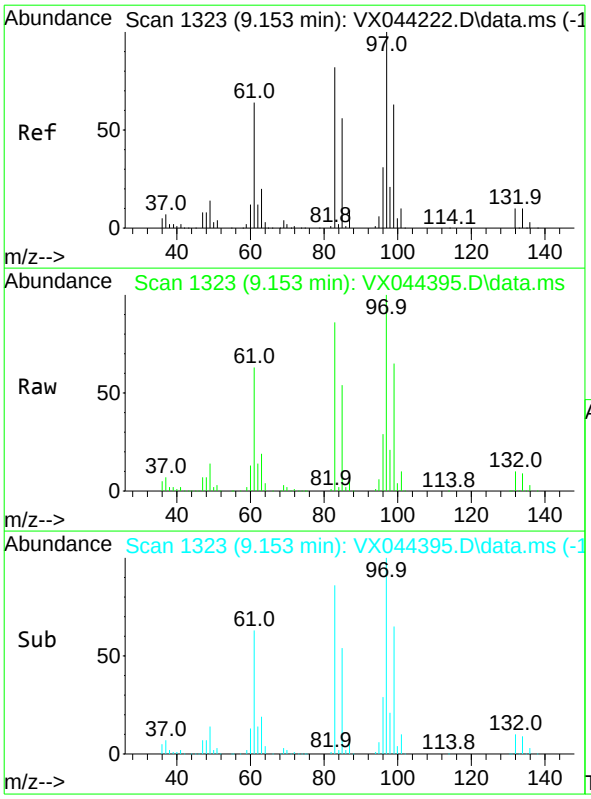


#54
cis-1,3-Dichloropropene
Concen: 51.907 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 121772

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.7	37.1
39	52.1	40.3	60.5

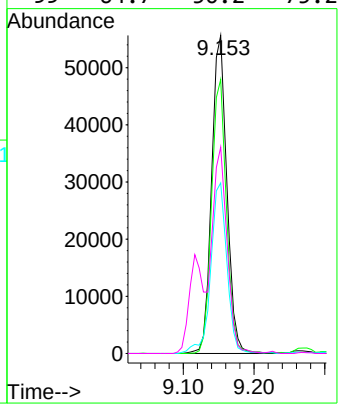




#55
1,1,2-Trichloroethane
Concen: 53.041 ug/l
RT: 9.153 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 97 Resp: 83289

Ion	Ratio	Lower	Upper
97	100		
83	86.2	65.3	97.9
85	53.6	44.6	67.0
99	64.7	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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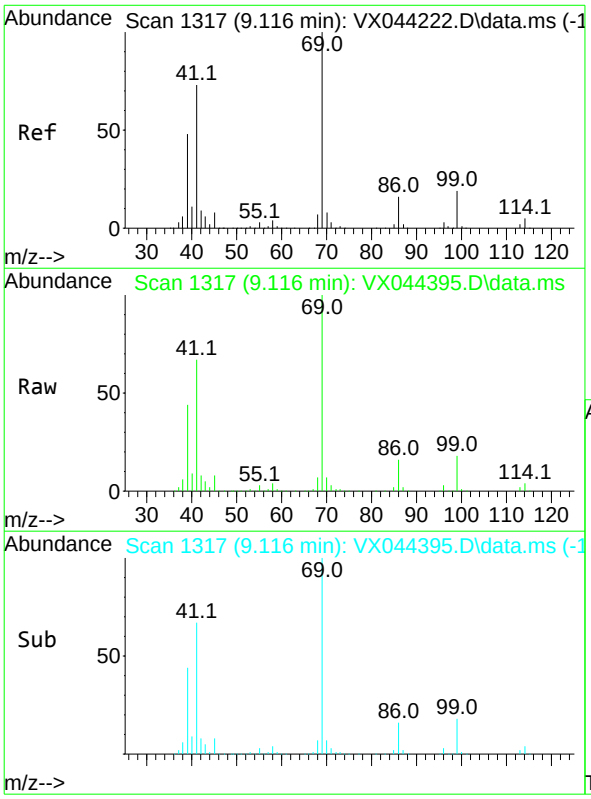
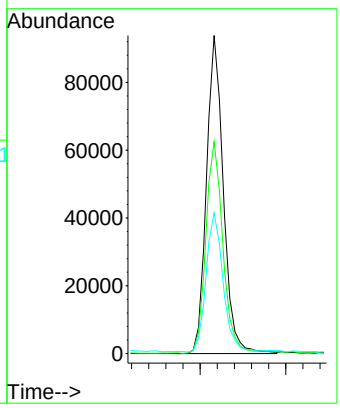
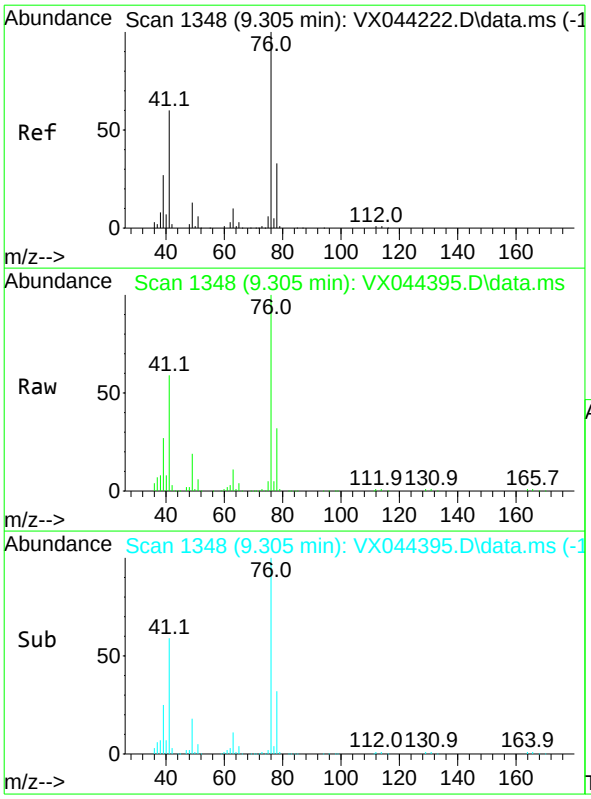


#56
Ethyl methacrylate
Concen: 51.786 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 69 Resp: 128375

Ion	Ratio	Lower	Upper
69	100		
41	68.1	56.6	85.0
39	44.5	37.4	56.0

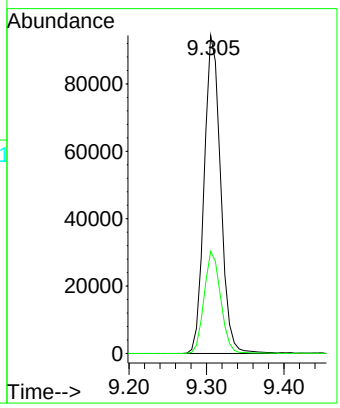




#57
1,3-Dichloropropane
Concen: 50.869 ug/l
RT: 9.305 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 76 Resp: 139034

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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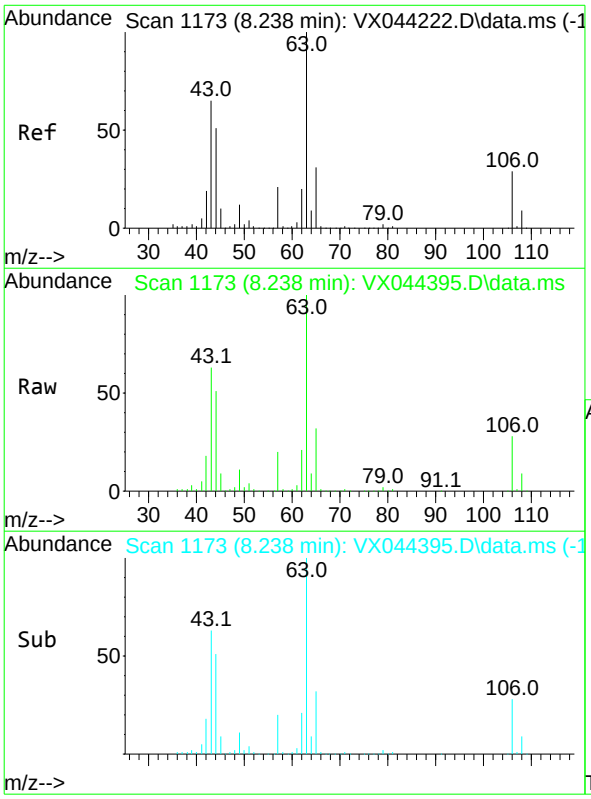
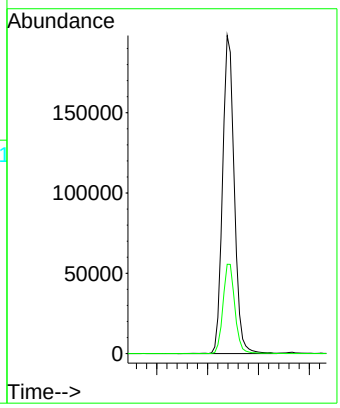
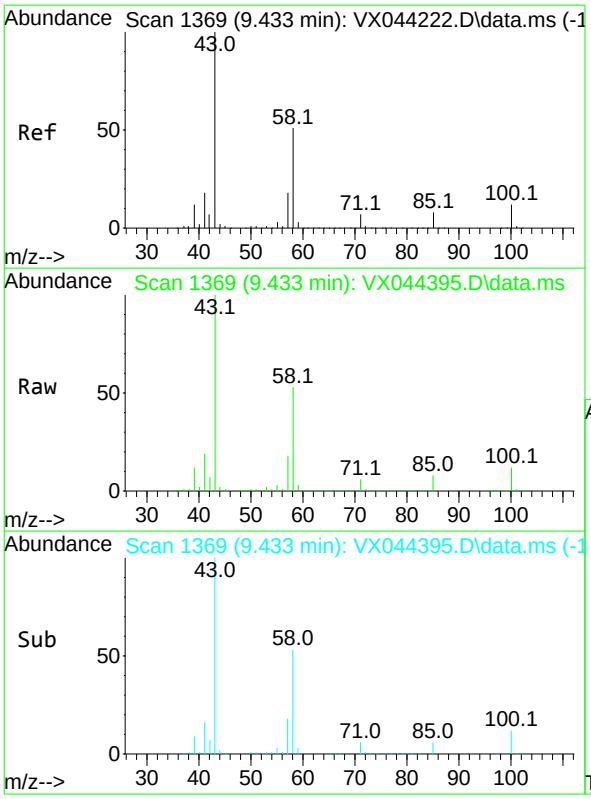


#58
2-Chloroethyl Vinyl ether
Concen: 253.061 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 63 Resp: 316405

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2

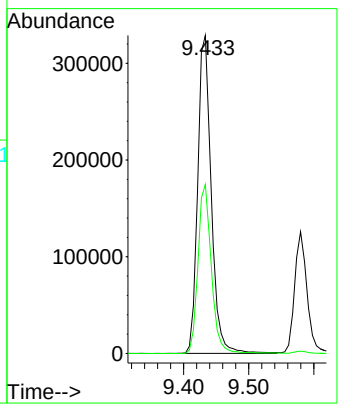




#59
2-Hexanone
Concen: 254.459 ug/l
RT: 9.433 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 474334

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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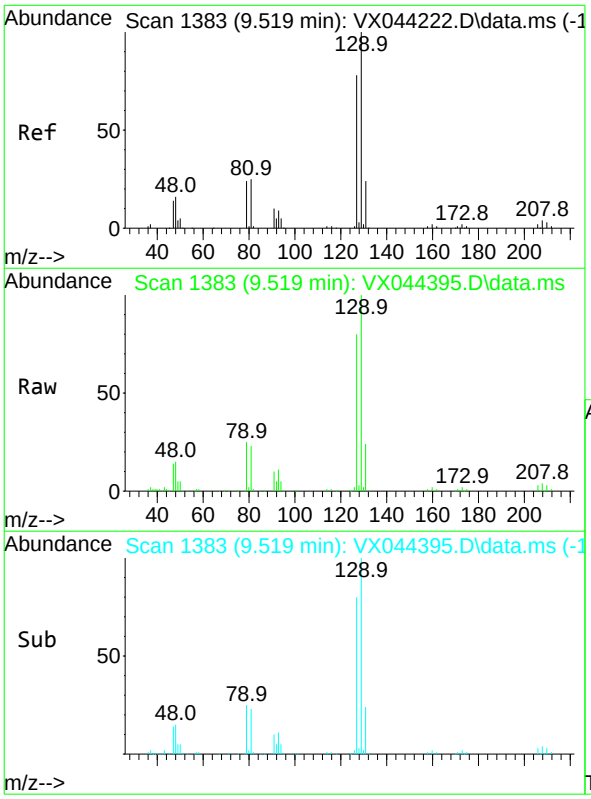
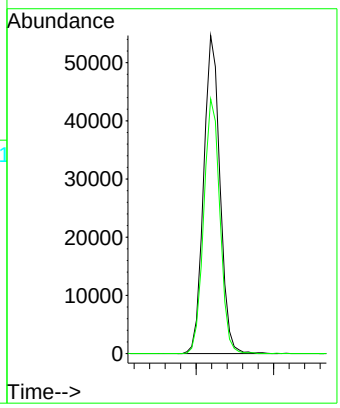
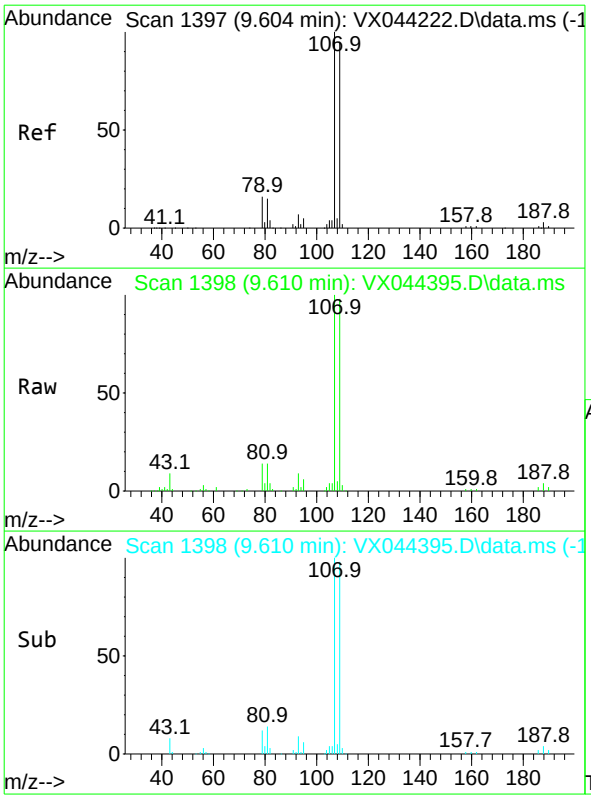


#60
Dibromochloromethane
Concen: 48.292 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:129 Resp: 80110

Ion	Ratio	Lower	Upper
129	100		
127	79.3	38.5	115.3

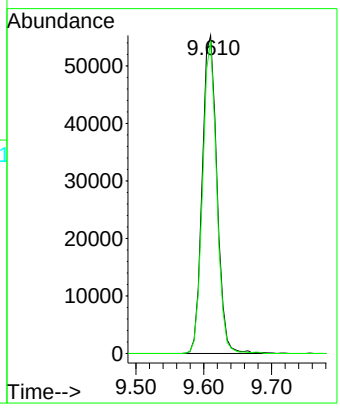




#61
1,2-Dibromoethane
Concen: 52.335 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:107 Resp: 83651

Ion	Ratio	Lower	Upper
107	100		
109	93.8	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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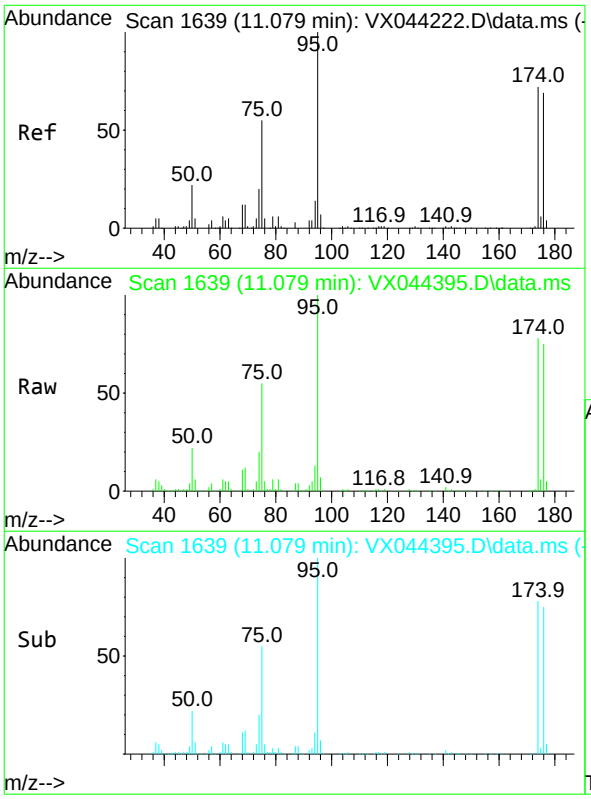
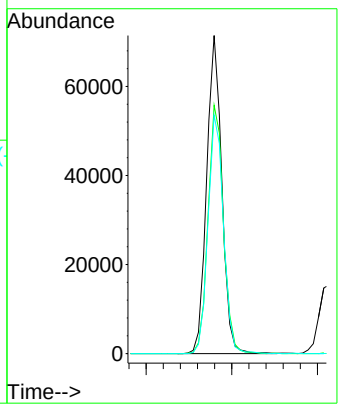
Supervised By :Mahesh Dadoda 12/20/2024

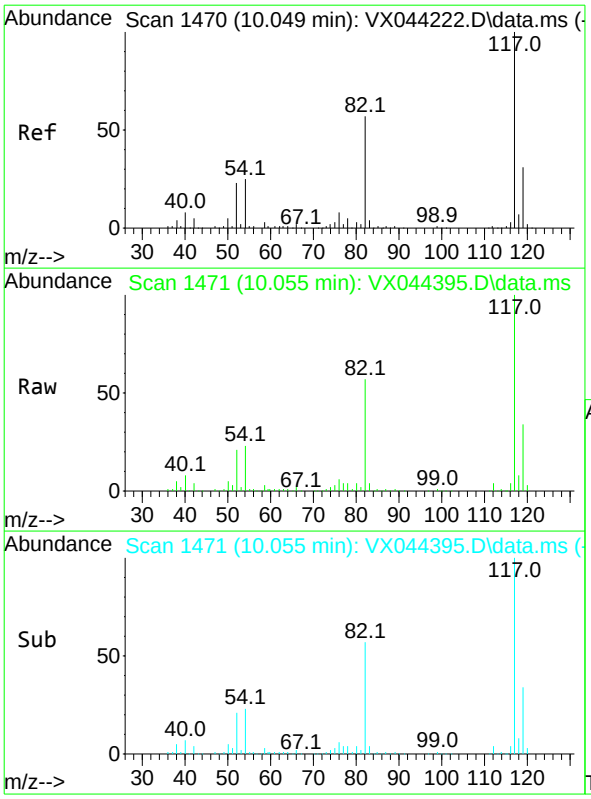


#62
4-Bromofluorobenzene
Concen: 46.251 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 95 Resp: 87444

Ion	Ratio	Lower	Upper
95	100		
174	79.4	0.0	145.8
176	76.5	0.0	137.8

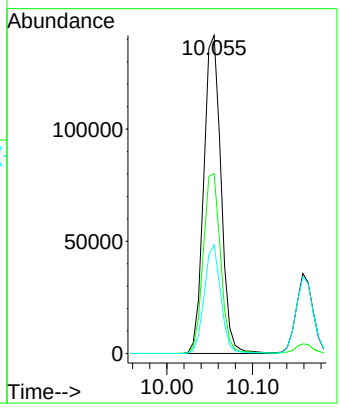




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:117 Resp: 198322

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.8	68.8
119	34.1	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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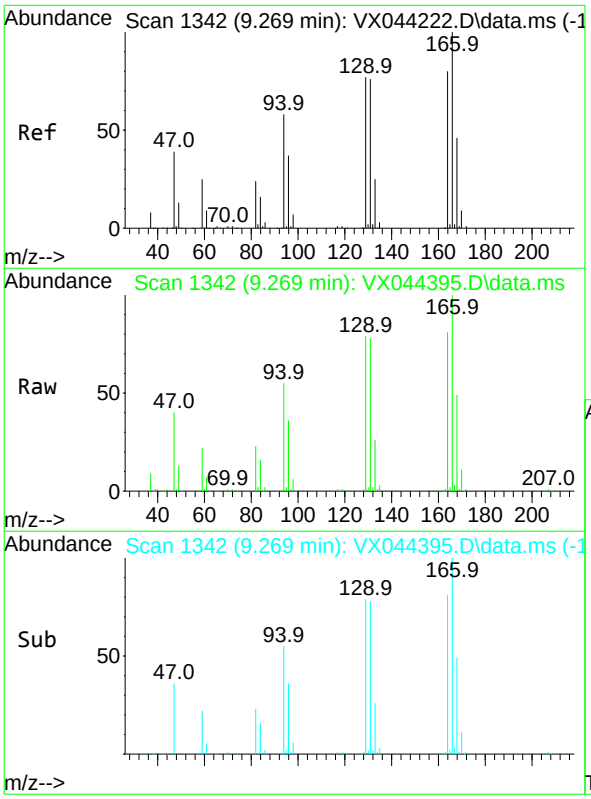
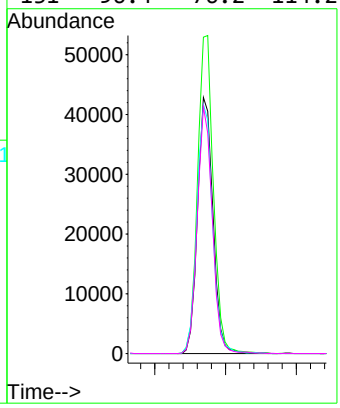
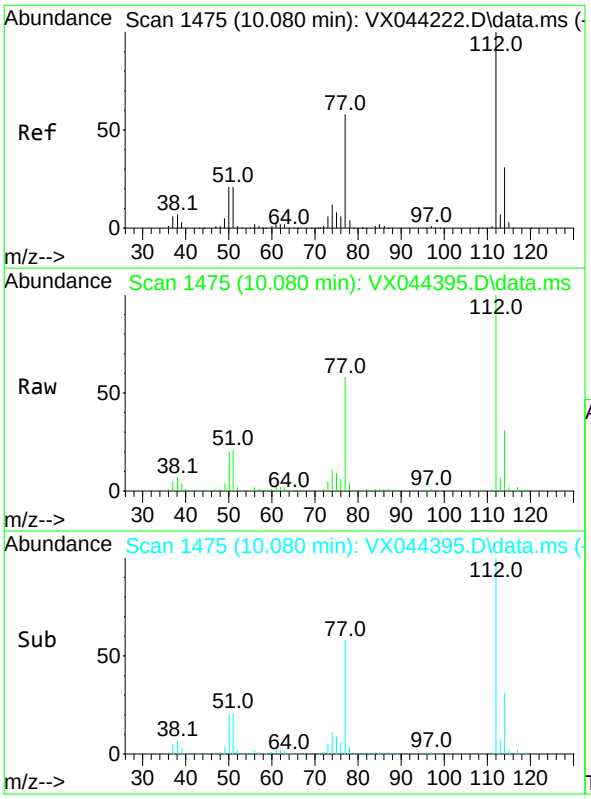


#64
Tetrachloroethene
Concen: 49.442 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:164 Resp: 65080

Ion	Ratio	Lower	Upper
164	100		
166	123.5	100.4	150.6
129	97.2	77.2	115.8
131	96.4	76.2	114.2

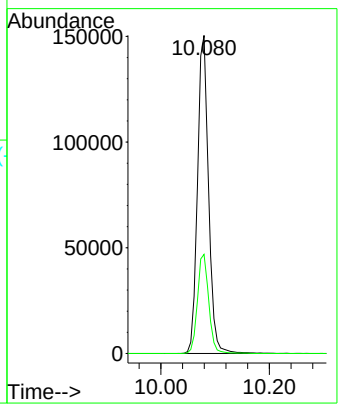




#65
Chlorobenzene
Concen: 50.011 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:112 Resp: 212528

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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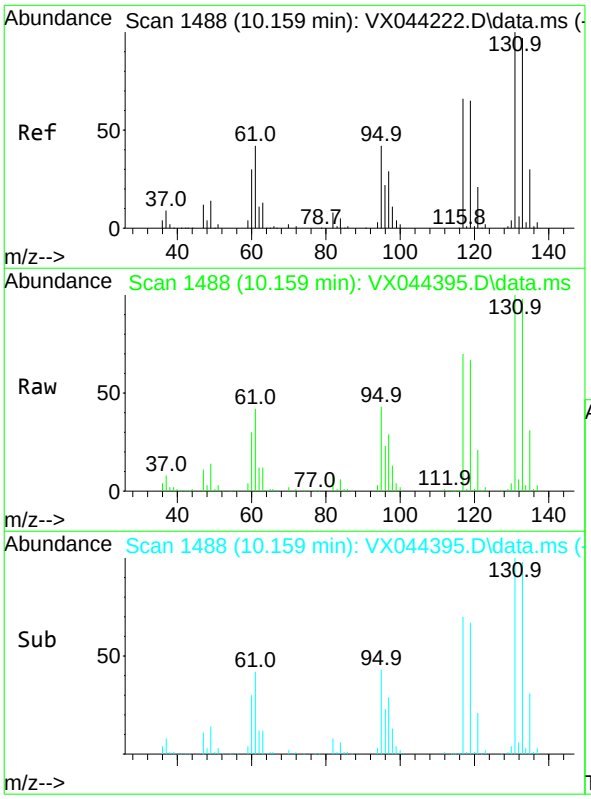
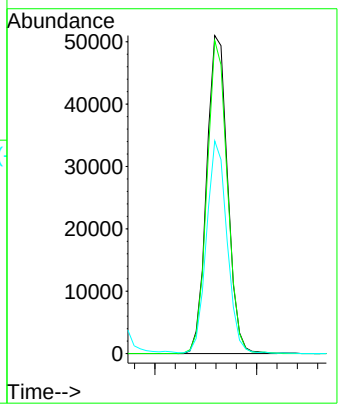
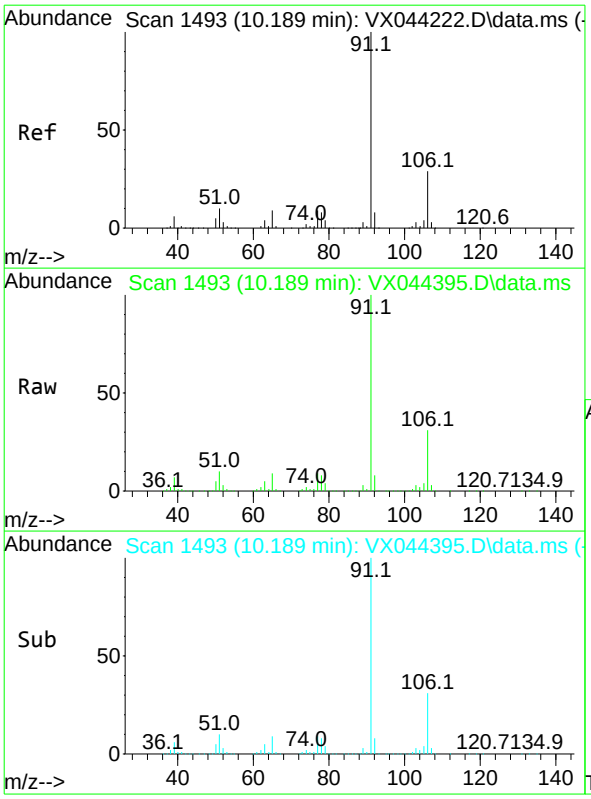


#66
1,1,1,2-Tetrachloroethane
Concen: 53.289 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:131 Resp: 72780

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	141.8
119	65.4	31.6	95.0





#67
Ethyl Benzene
Concen: 48.877 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 91 Resp: 358882

Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.5	35.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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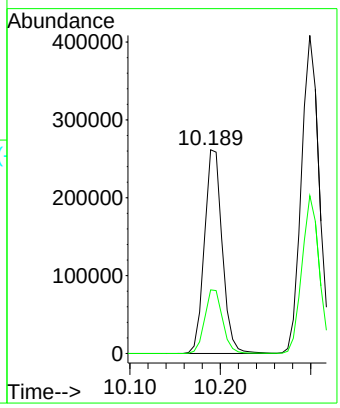
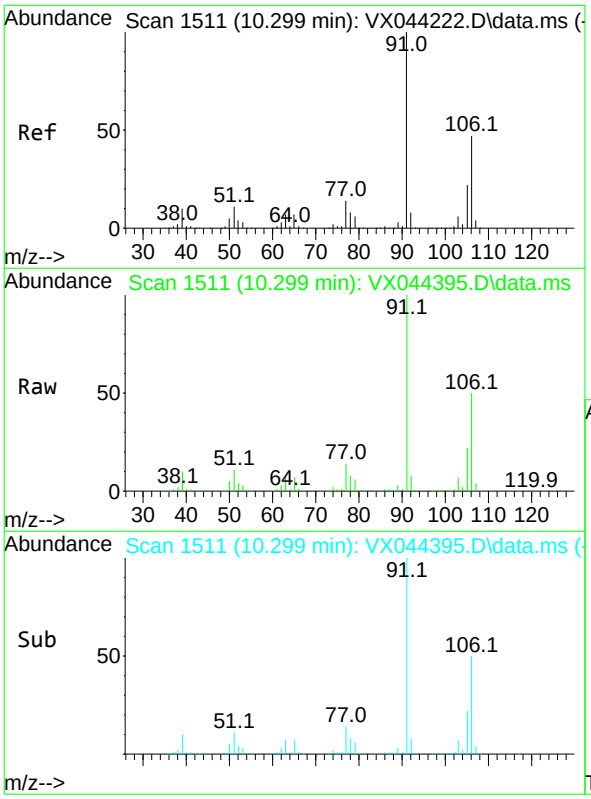
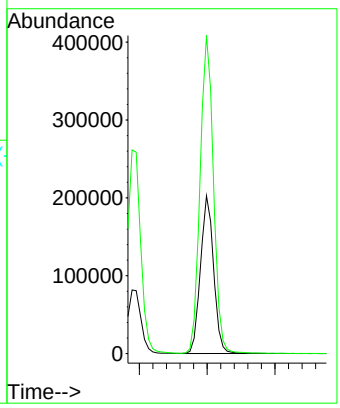


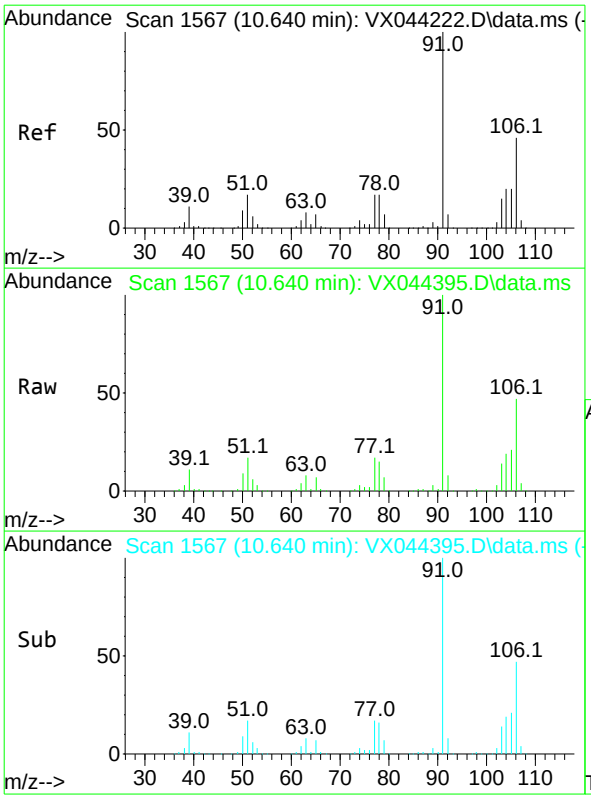


#68
m/p-Xylenes
Concen: 101.186 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:106 Resp: 272625

Ion	Ratio	Lower	Upper
106	100		
91	205.7	170.2	255.2

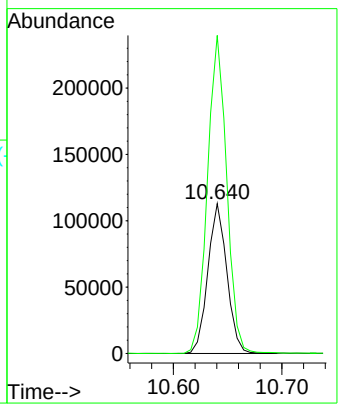




#69
o-Xylene
Concen: 50.475 ug/l
RT: 10.640 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:106 Resp: 137600

Ion	Ratio	Lower	Upper
106	100		
91	214.8	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
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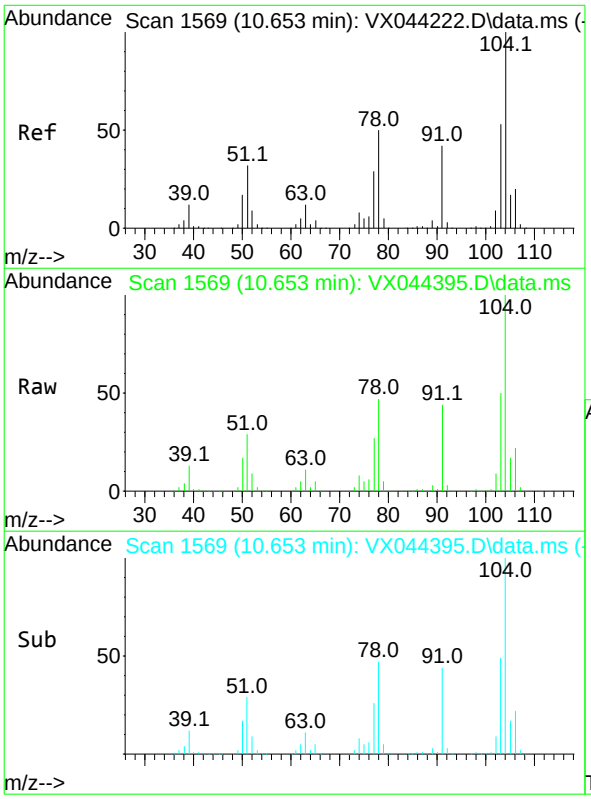
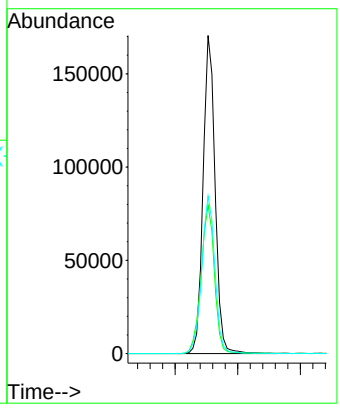
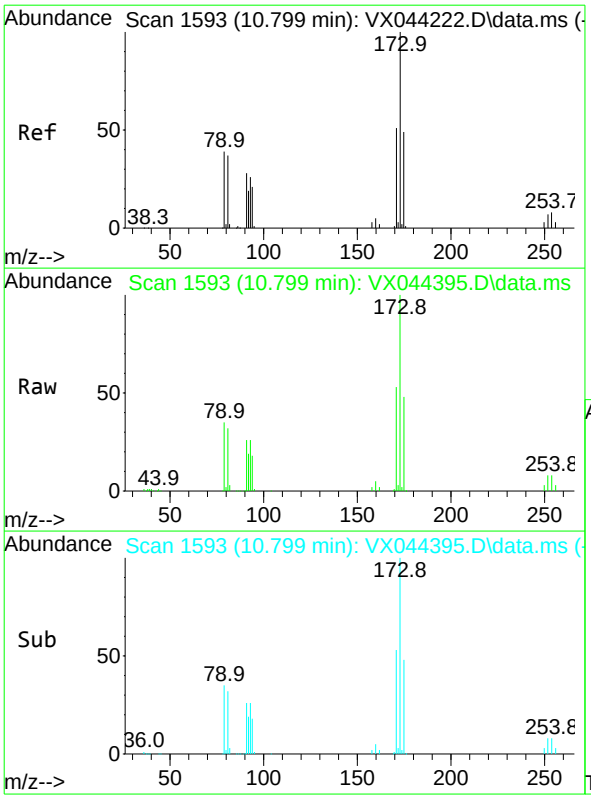


#70
Styrene
Concen: 51.996 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:104 Resp: 227233

Ion	Ratio	Lower	Upper
104	100		
78	51.9	44.6	67.0
103	54.6	45.4	68.0

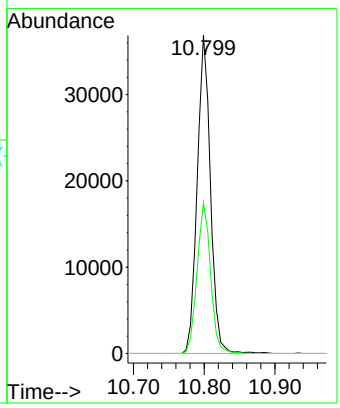




#71
Bromoform
Concen: 50.123 ug/l
RT: 10.799 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:173 Resp: 47848

Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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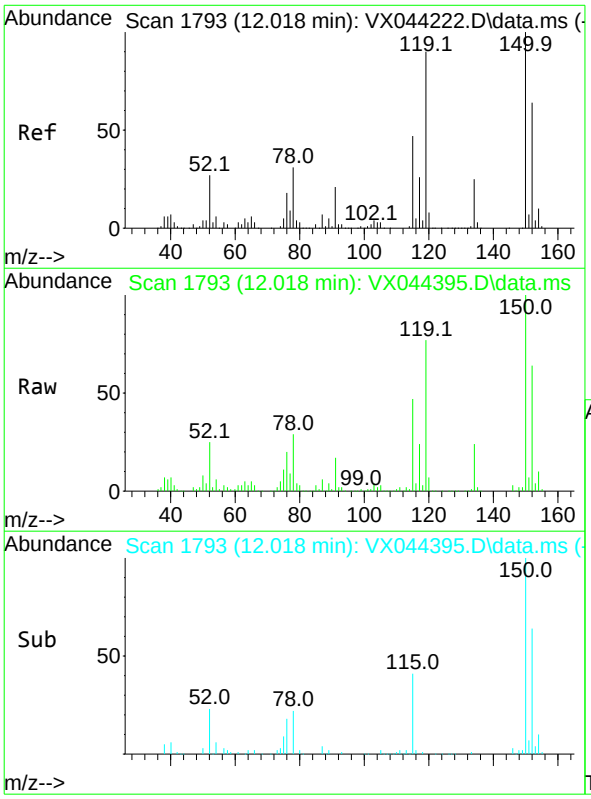
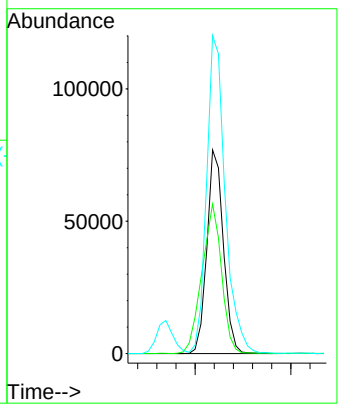
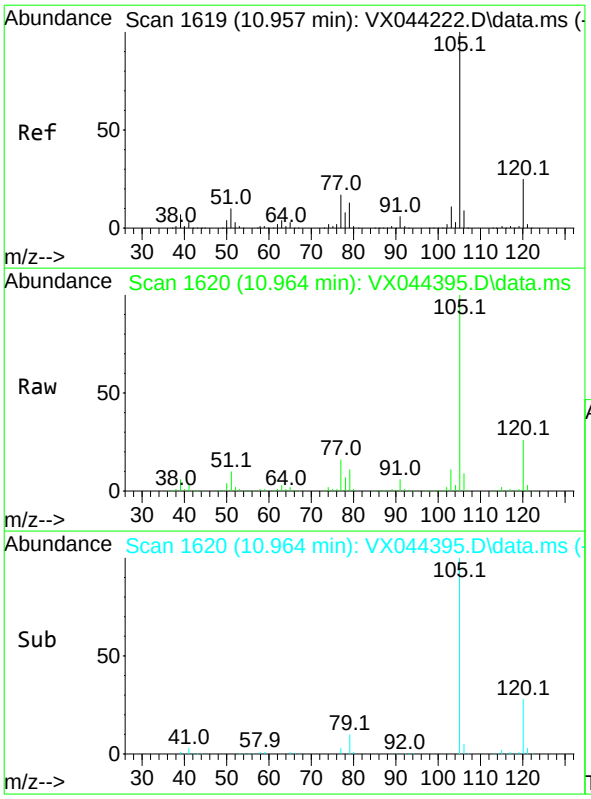


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:152 Resp: 92192

Ion	Ratio	Lower	Upper
152	100		
115	87.2	44.5	133.3
150	175.2	0.0	353.8

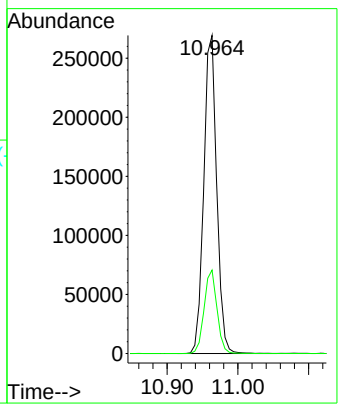




#73
Isopropylbenzene
Concen: 48.386 ug/l
RT: 10.964 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:105 Resp: 341494

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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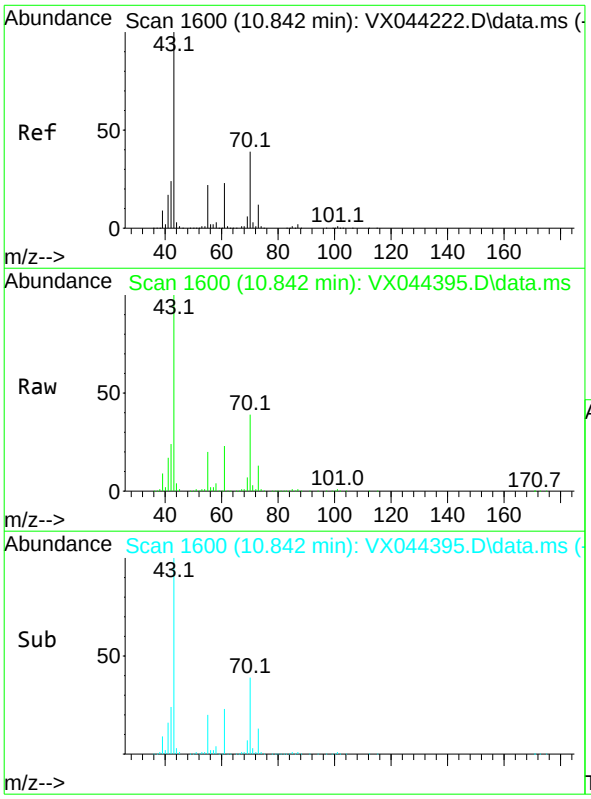
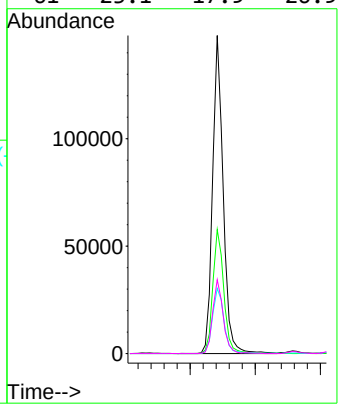
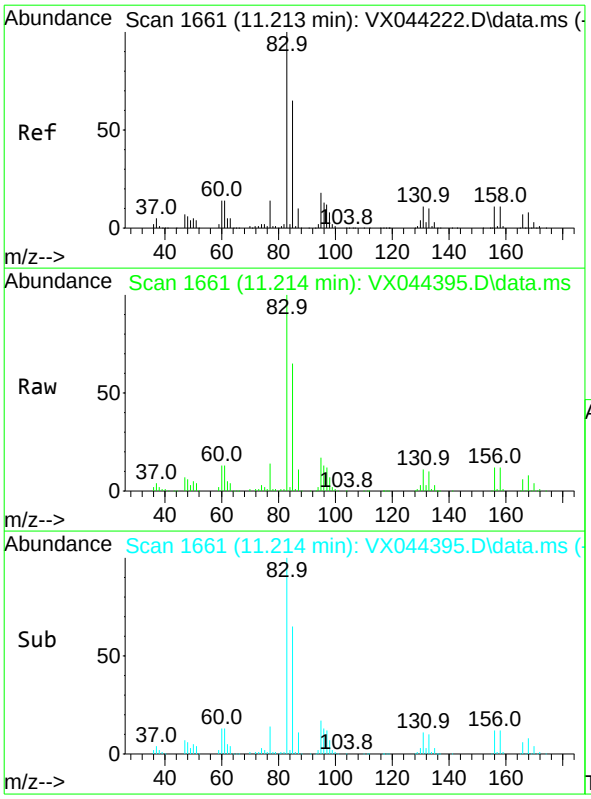


#74
N-amyl acetate
Concen: 51.447 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 167806

Ion	Ratio	Lower	Upper
43	100		
70	40.3	31.9	47.9
55	22.2	17.9	26.9
61	23.1	17.9	26.9

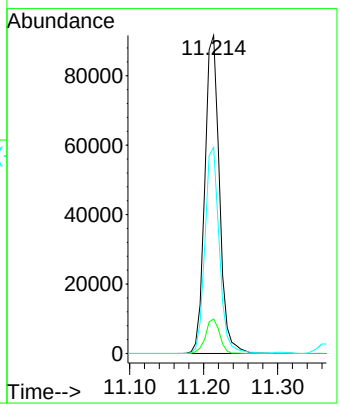




#75
1,1,2,2-Tetrachloroethane
Concen: 51.128 ug/l
RT: 11.214 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 83 Resp: 125333

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.4
85	64.2	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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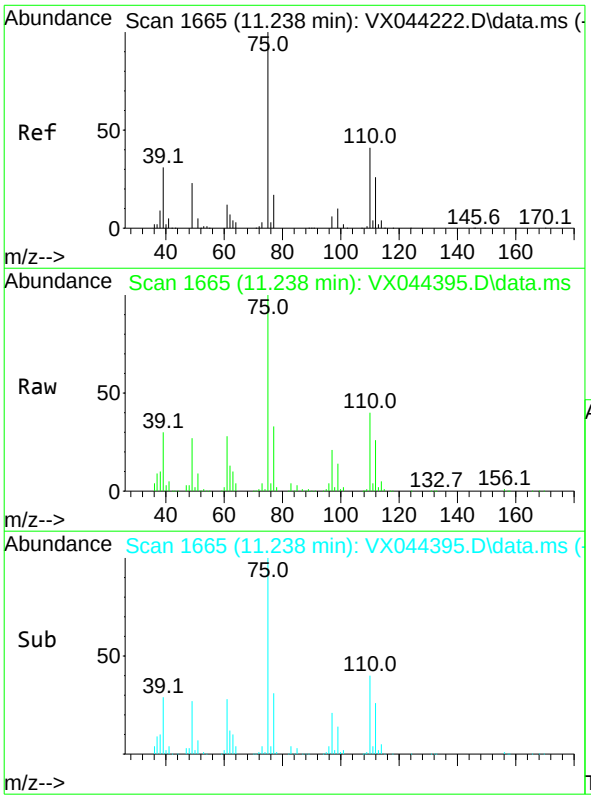
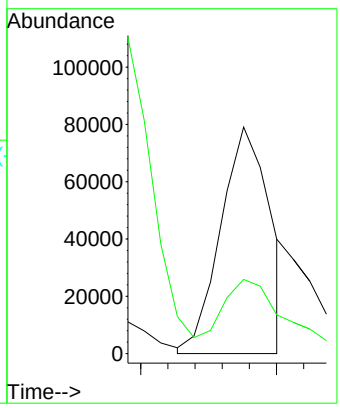
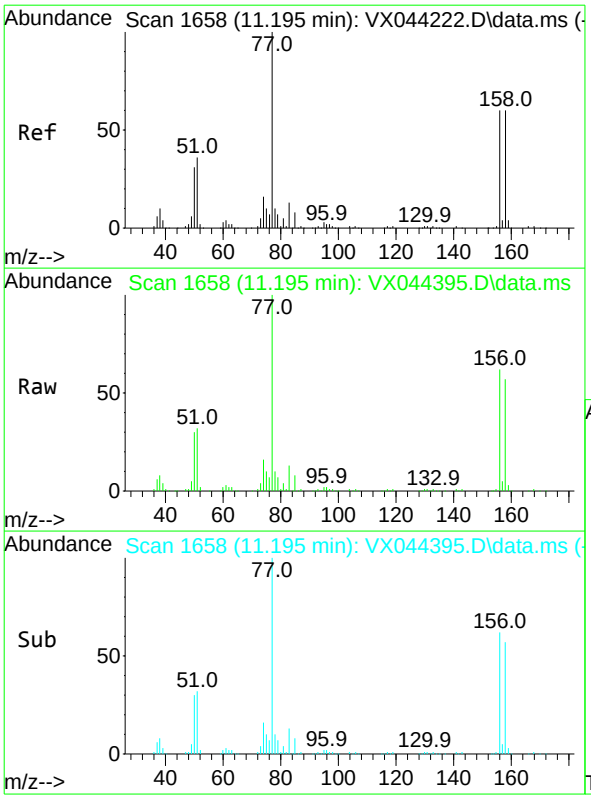


#76
1,2,3-Trichloropropane
Concen: 48.329 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 99482

Ion	Ratio	Lower	Upper
75	100		
77	42.8	20.9	62.7

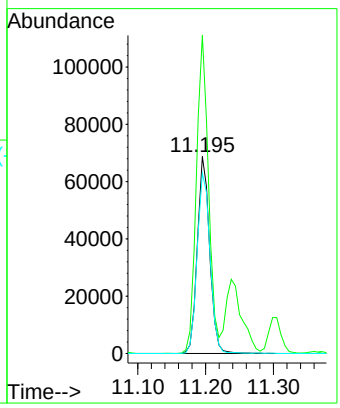




#77
Bromobenzene
Concen: 50.614 ug/l
RT: 11.195 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:156 Resp: 86623

Ion	Ratio	Lower	Upper
156	100		
77	159.2	82.6	247.8
158	96.0	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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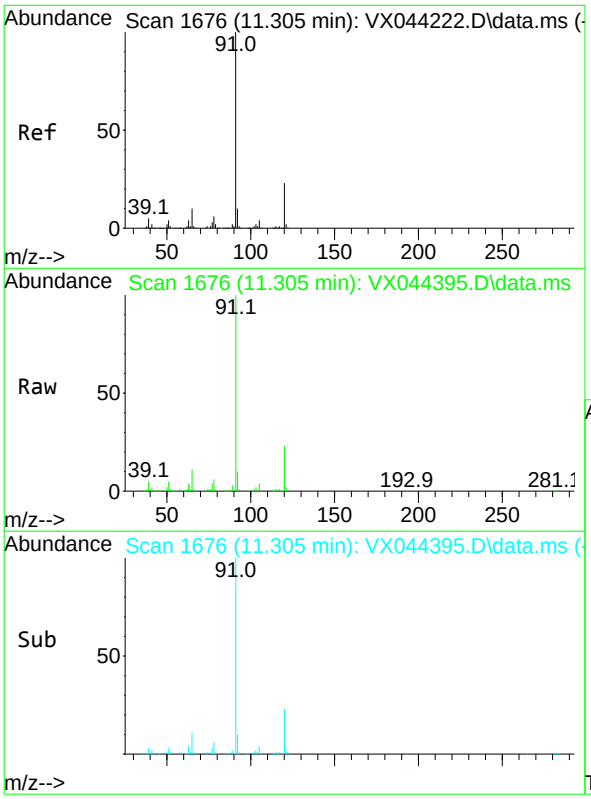
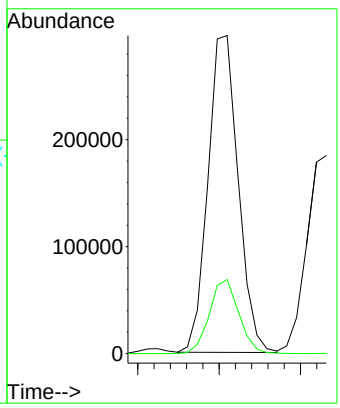
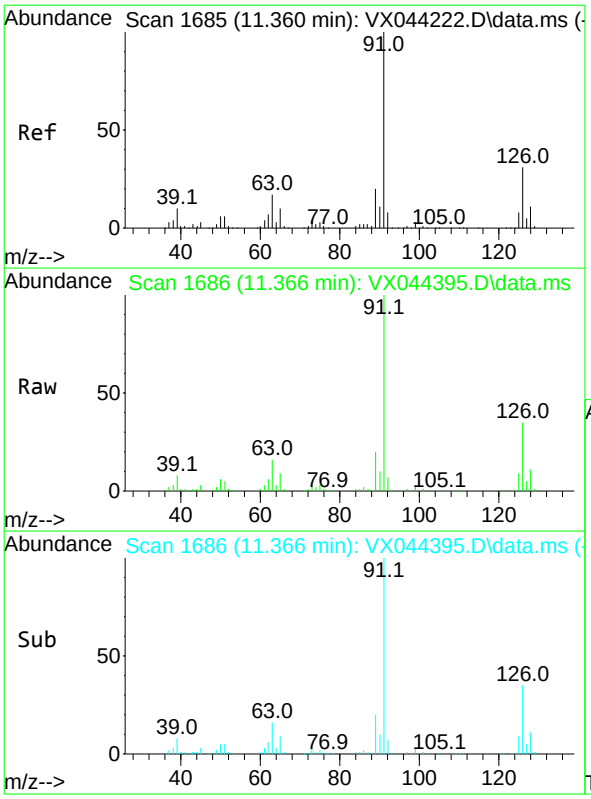


#78
n-propylbenzene
Concen: 49.070 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 91 Resp: 382775

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.0	33.0

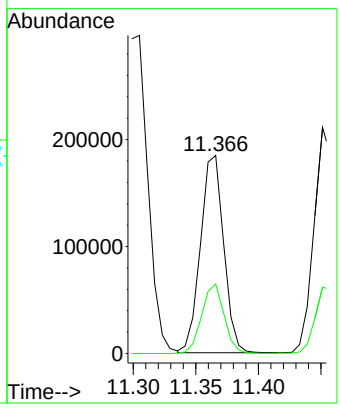




#79
2-Chlorotoluene
Concen: 47.227 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 91 Resp: 238254

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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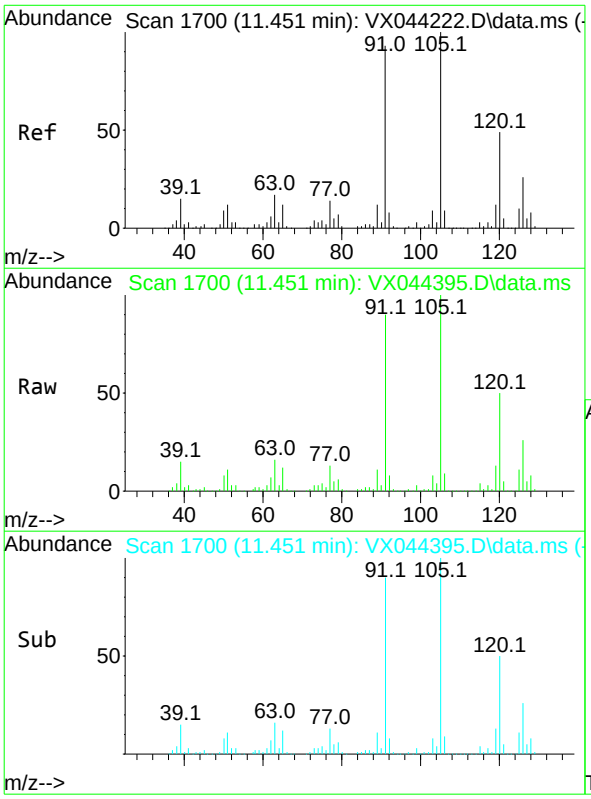
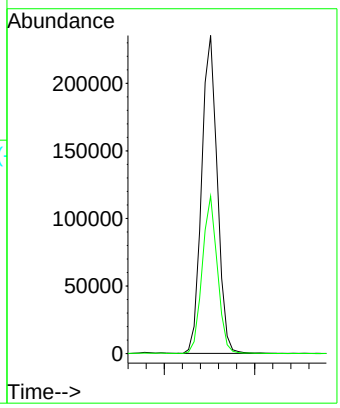
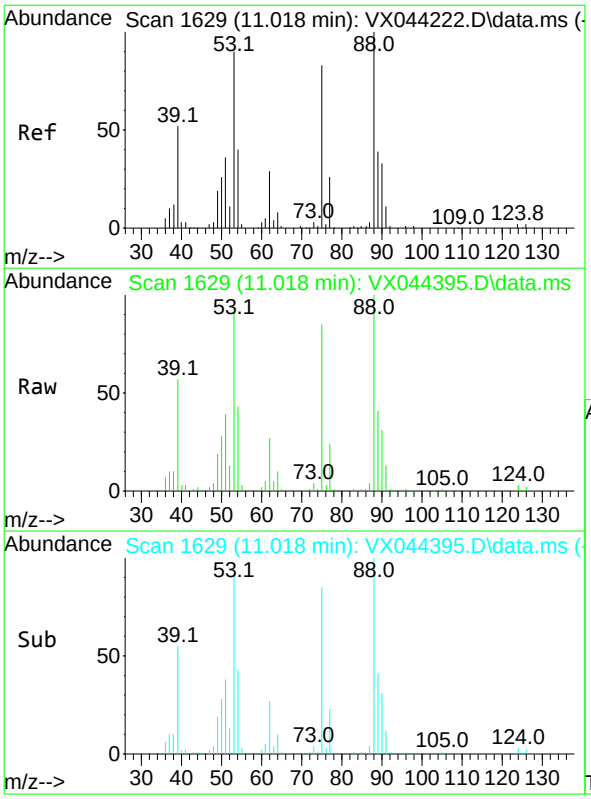


#80
1,3,5-Trimethylbenzene
Concen: 48.394 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:105 Resp: 283243

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.8	71.4

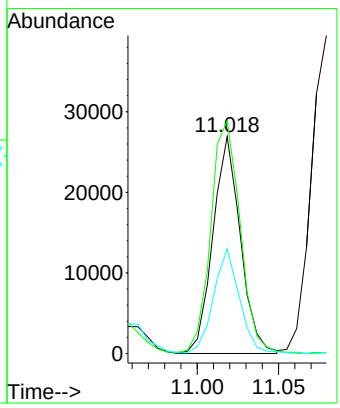




#81
trans-1,4-Dichloro-2-butene
Concen: 44.685 ug/l
RT: 11.018 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 31620

Ion	Ratio	Lower	Upper
75	100		
53	115.1	93.6	140.4
89	45.6	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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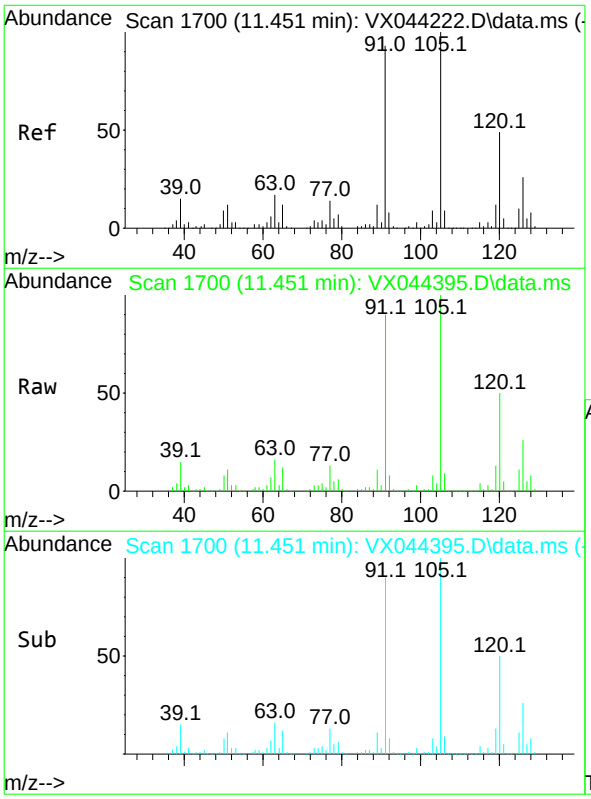
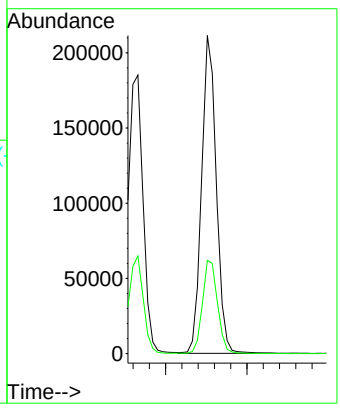
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

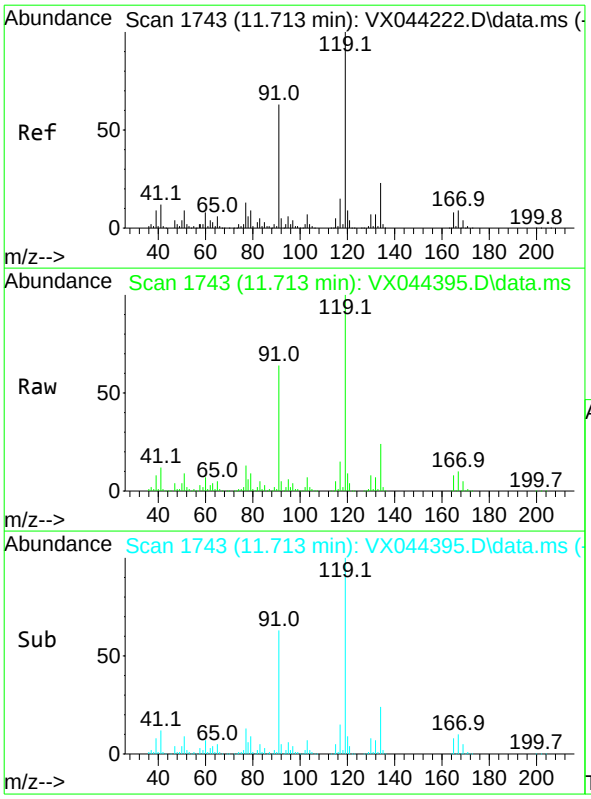


#82
4-Chlorotoluene
Concen: 47.419 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 91 Resp: 264905

Ion	Ratio	Lower	Upper
91	100		
126	30.1	14.5	43.5

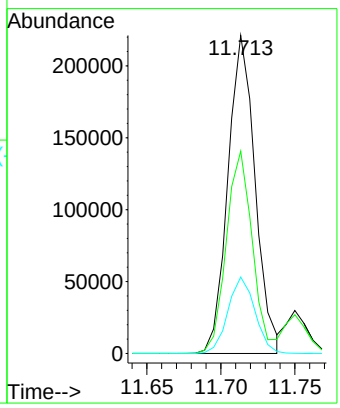




#83
tert-Butylbenzene
Concen: 48.916 ug/l
RT: 11.713 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:119 Resp: 282938

Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.5
134	23.8	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
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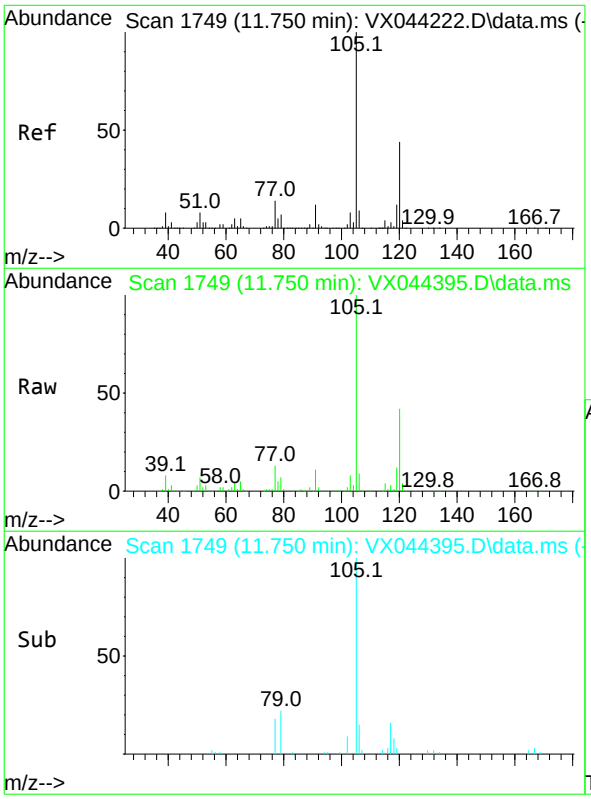
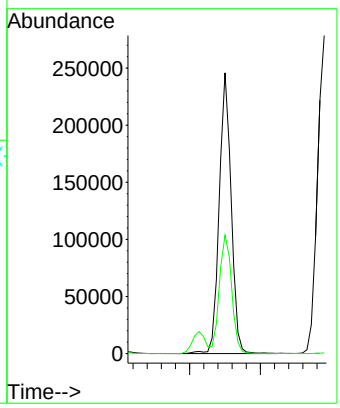
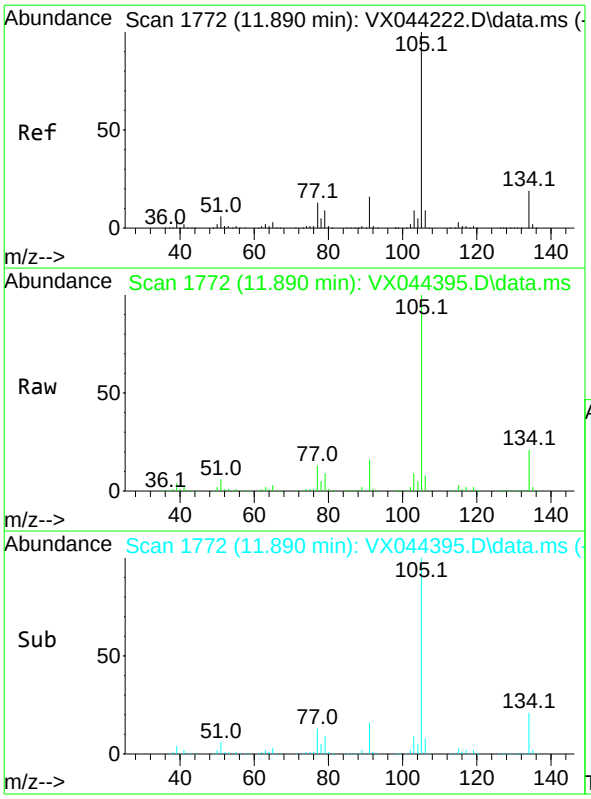


#84
1,2,4-Trimethylbenzene
Concen: 50.060 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:105 Resp: 287742

Ion	Ratio	Lower	Upper
105	100		
120	43.9	21.7	65.1

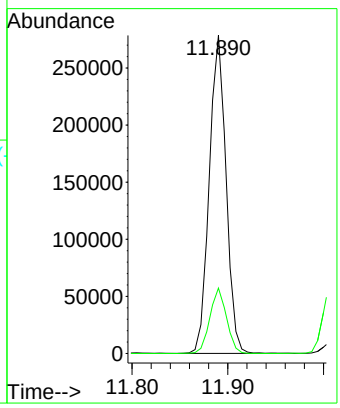




#85
sec-Butylbenzene
Concen: 48.287 ug/l
RT: 11.890 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:105 Resp: 339068

Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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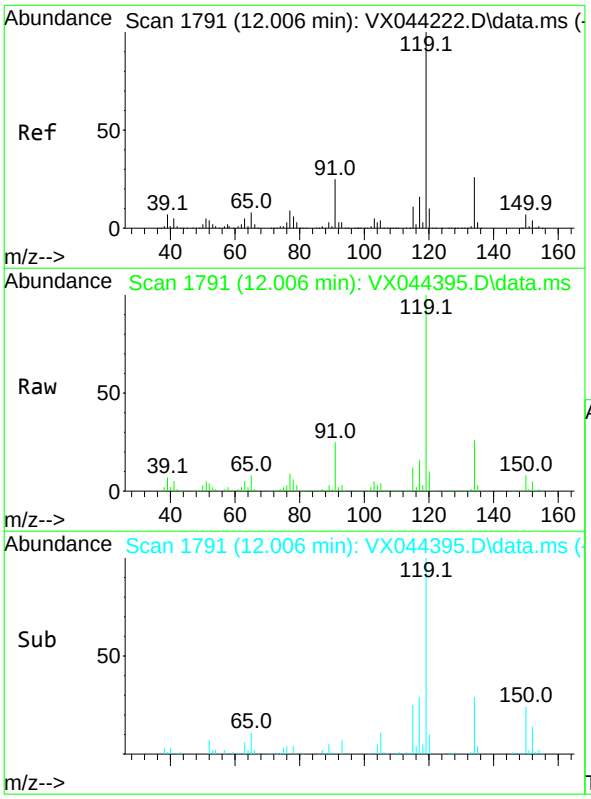
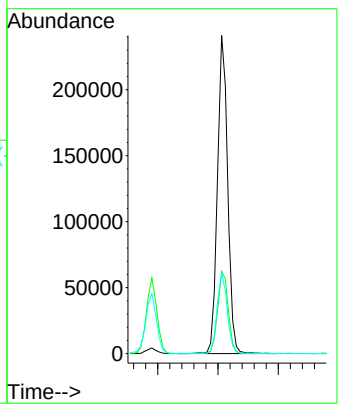
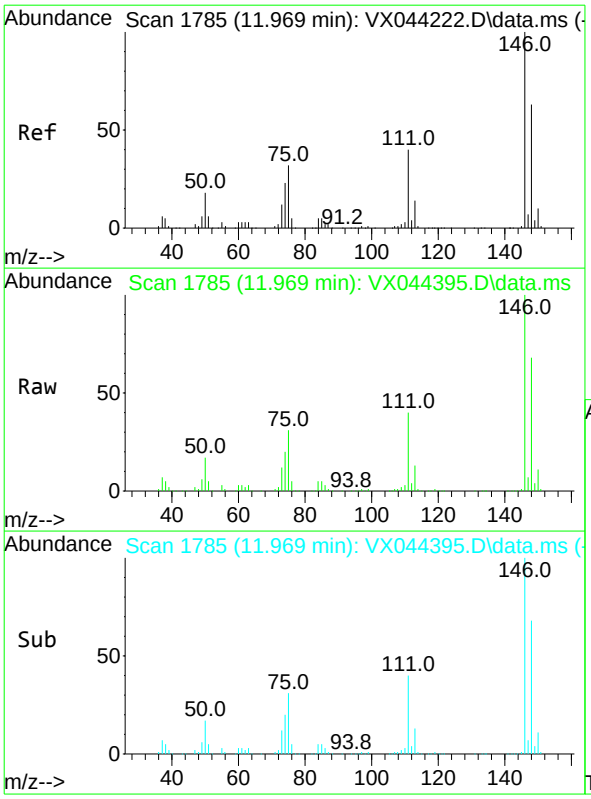


#86
p-Isopropyltoluene
Concen: 48.641 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:119 Resp: 284281

Ion	Ratio	Lower	Upper
119	100		
134	26.6	12.8	38.4
91	25.1	13.0	39.0

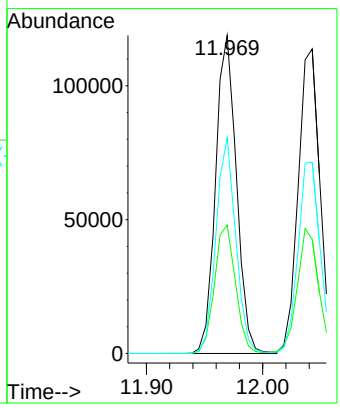




#87
1,3-Dichlorobenzene
Concen: 49.564 ug/l
RT: 11.969 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:146 Resp: 148170

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.4	64.2
148	64.5	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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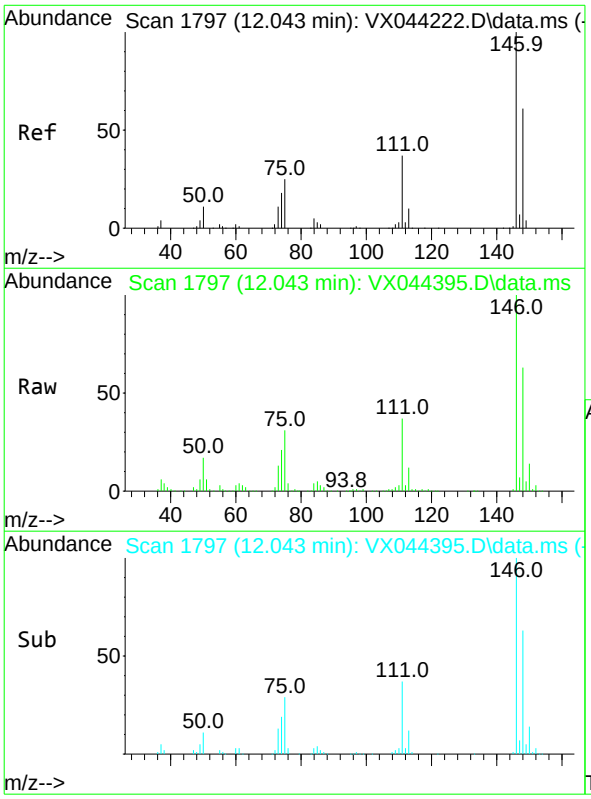
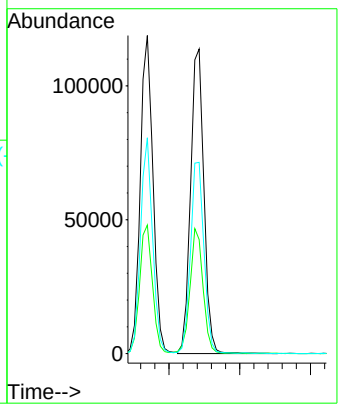
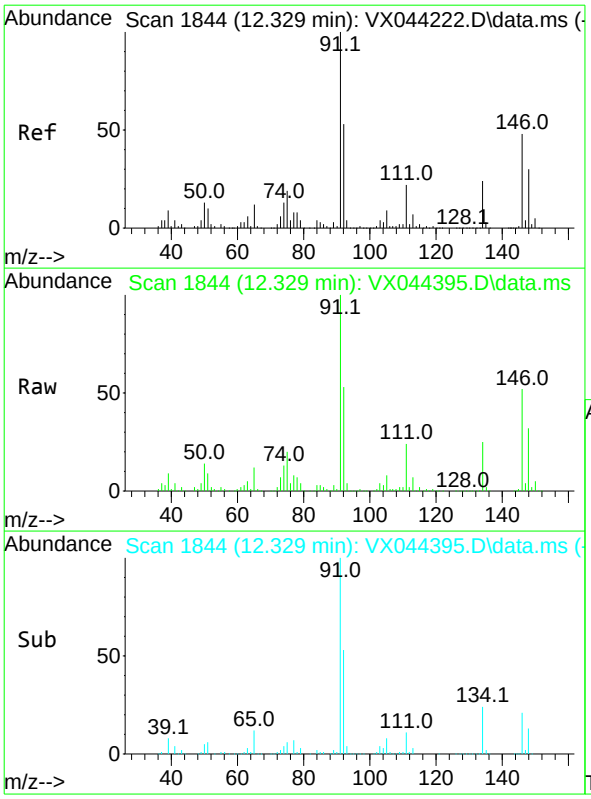


#88
1,4-Dichlorobenzene
Concen: 48.473 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:146 Resp: 148965

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.0	63.0
148	63.4	32.3	96.8





#89
n-Butylbenzene
Concen: 48.803 ug/l
RT: 12.329 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 91 Resp: 239841

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.6	79.7
134	25.3	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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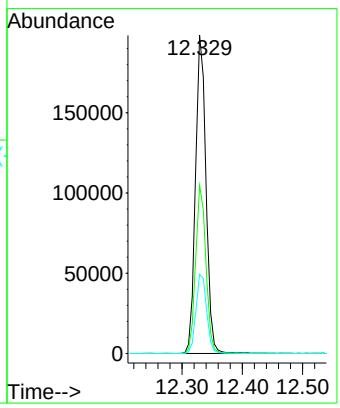
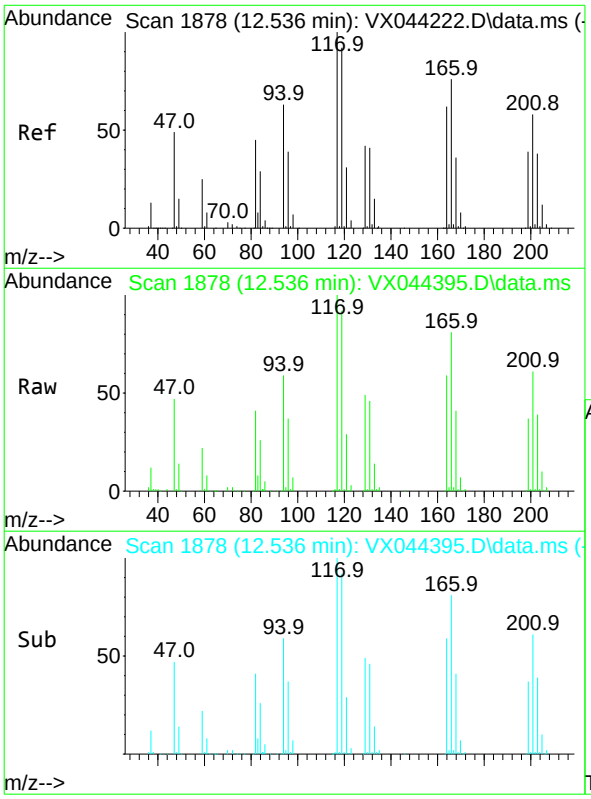
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

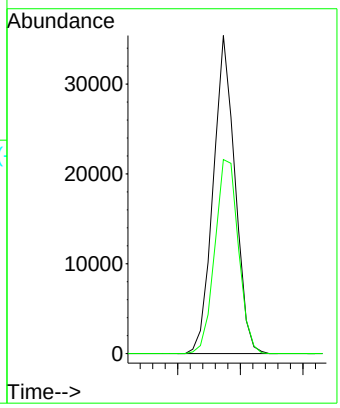


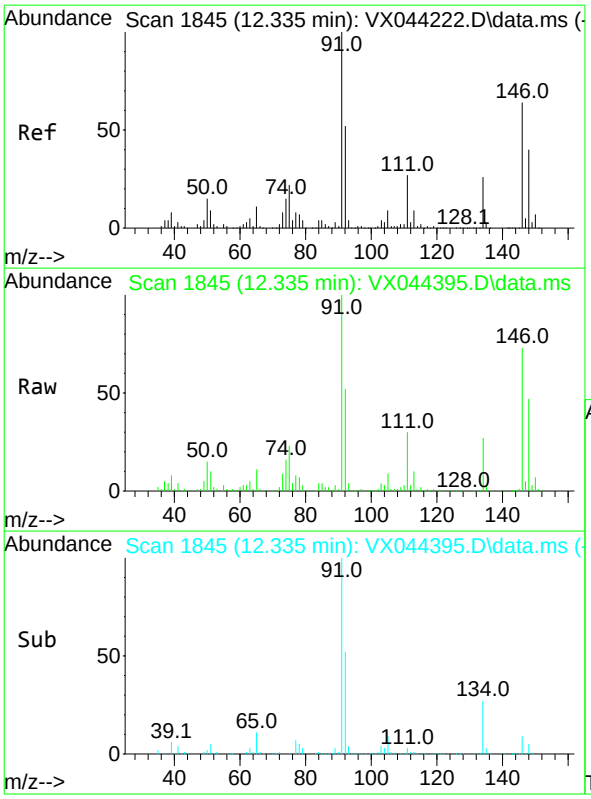


#90
Hexachloroethane
Concen: 50.075 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:117 Resp: 42721

Ion	Ratio	Lower	Upper
117	100		
201	66.2	31.4	94.2

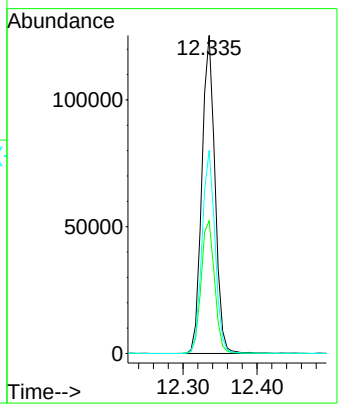




#91
1,2-Dichlorobenzene
Concen: 49.849 ug/l
RT: 12.335 min Scan# 18
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:146 Resp: 154736

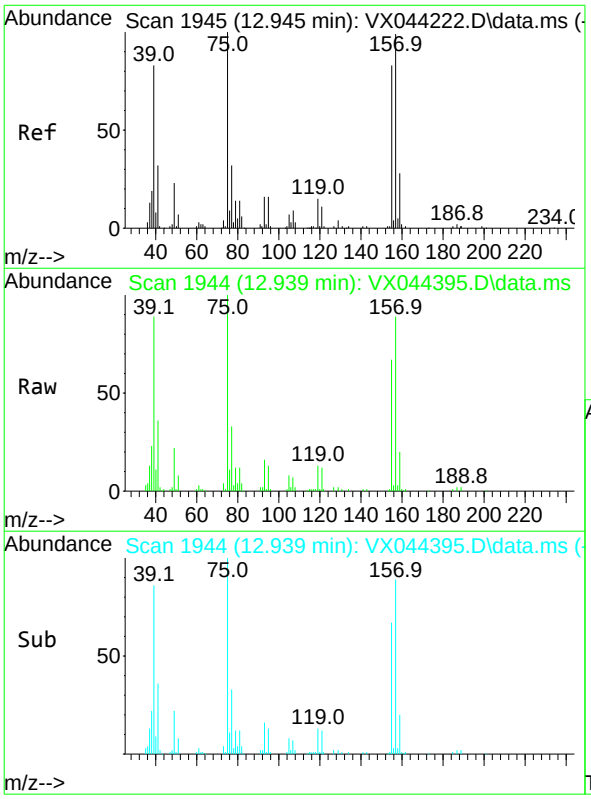
Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.3
148	63.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

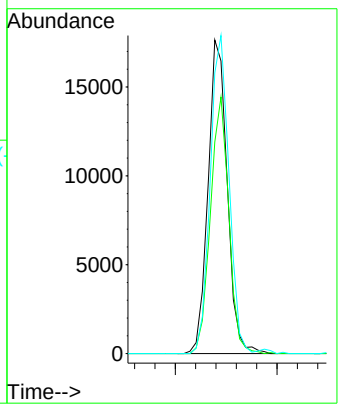
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

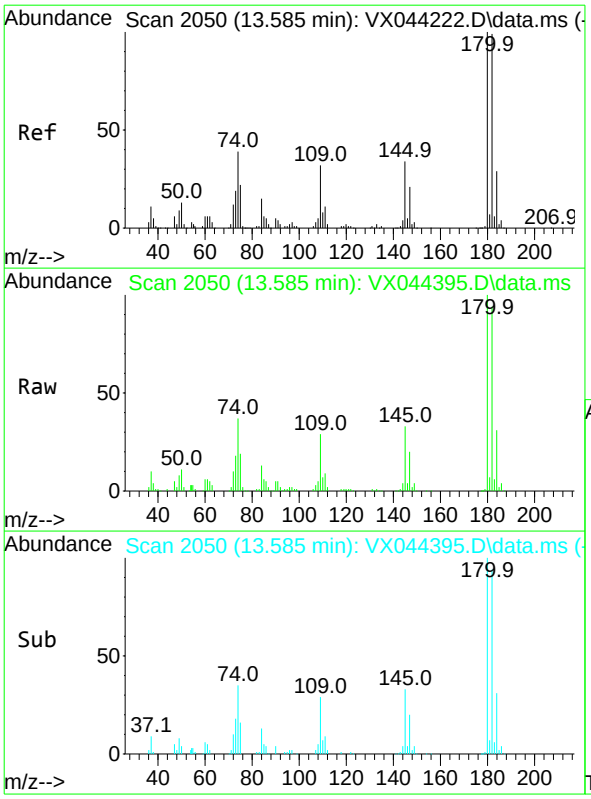


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.520 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 23089

Ion	Ratio	Lower	Upper
75	100		
155	78.3	38.1	114.3
157	99.4	47.2	141.6





#93
1,2,4-Trichlorobenzene
Concen: 50.503 ug/l
RT: 13.585 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:180 Resp: 85945

Ion	Ratio	Lower	Upper
180	100		
182	96.6	48.0	144.2
145	31.4	16.6	49.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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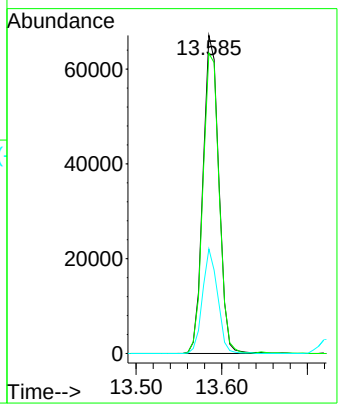
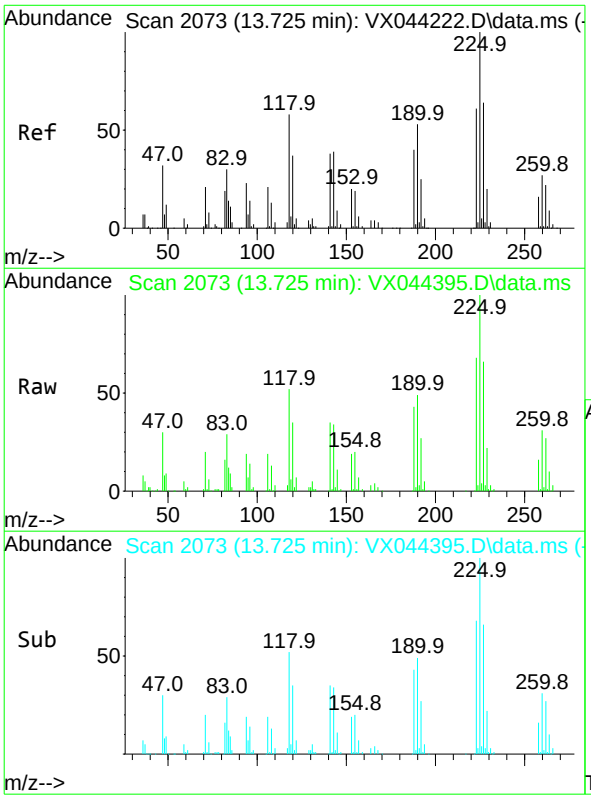
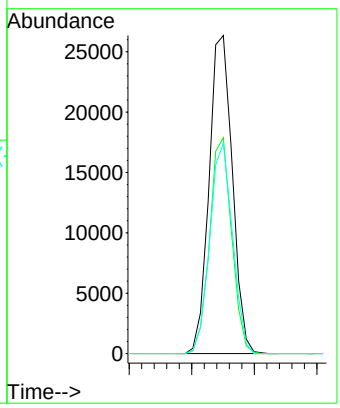


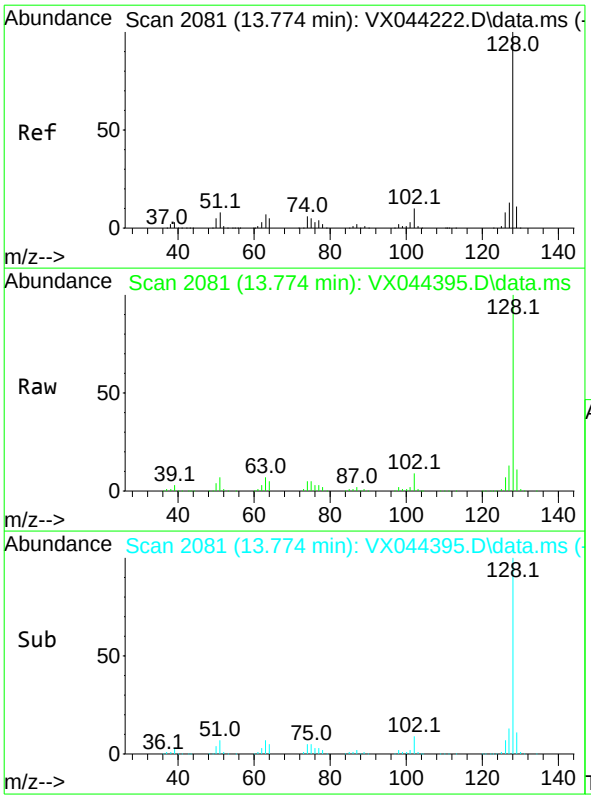


#94
Hexachlorobutadiene
Concen: 49.682 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:225 Resp: 34008

Ion	Ratio	Lower	Upper
225	100		
223	64.3	30.8	92.4
227	64.4	32.1	96.3

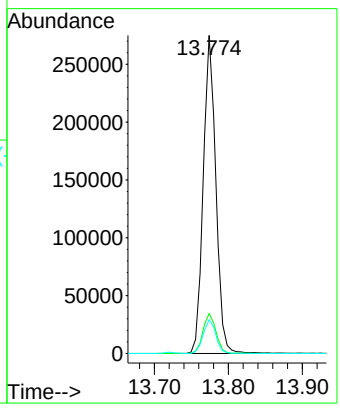




#95
Naphthalene
Concen: 48.907 ug/l
RT: 13.774 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:128 Resp: 324880

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.8	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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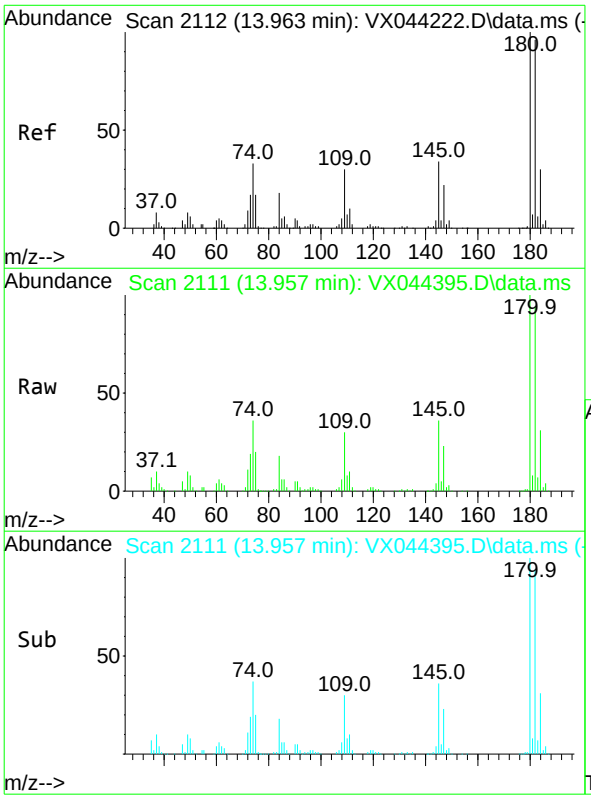
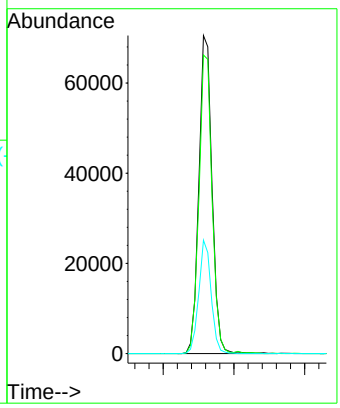


#96
1,2,3-Trichlorobenzene
Concen: 50.326 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:180 Resp: 90839

Ion	Ratio	Lower	Upper
180	100		
182	93.6	48.0	144.0
145	33.5	17.7	53.1



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Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	102	0.00
2	T	Dichlorodifluoromethane	0.773	0.785	-1.6	102	0.00
3	P	Chloromethane	0.739	0.805	-8.9	109	0.00
4	C	Vinyl Chloride	0.770	0.803	-4.3#	105	0.00
5	T	Bromomethane	0.546	0.526	3.7	98	0.00
6	T	Chloroethane	0.480	0.557	-16.0	107	0.00
7	T	Trichlorofluoromethane	1.508	1.236	18.0	82	0.00
8	T	Diethyl Ether	0.515	0.481	6.6	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.577	5.4	96	0.00
10	T	Methyl Iodide	0.804	0.859	-6.8	104	0.00
11	T	Tert butyl alcohol	0.124	0.096	22.6	82	0.00
12	CM	1,1-Dichloroethene	0.560	0.579	-3.4#	100	0.00
13	T	Acrolein	0.179	0.204	-14.0	113	0.00
14	T	Allyl chloride	0.933	0.949	-1.7	96	0.00
15	T	Acrylonitrile	0.342	0.353	-3.2	101	0.00
16	T	Acetone	0.357	0.306	14.3	82	0.00
17	T	Carbon Disulfide	1.065	1.056	0.8	94	0.00
18	T	Methyl Acetate	0.922	0.912	1.1	98	0.00
19	T	Methyl tert-butyl Ether	2.187	2.164	1.1	96	0.00
20	T	Methylene Chloride	0.671	0.695	-3.6	103	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.603	-1.2	100	0.00
22	T	Diisopropyl ether	2.102	2.085	0.8	98	0.00
23	T	Vinyl Acetate	1.709	1.841	-7.7	99	0.00
24	P	1,1-Dichloroethane	1.172	1.201	-2.5	99	0.00
25	T	2-Butanone	0.508	0.497	2.2	93	0.00
26	T	2,2-Dichloropropane	0.952	0.805	15.4	79	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.763	-0.9	101	0.00
28	T	Bromochloromethane	0.575	0.561	2.4	97	0.00
29	T	Tetrahydrofuran	0.326	0.321	1.5	97	0.00
30	C	Chloroform	1.316	1.284	2.4#	98	0.00
31	T	Cyclohexane	0.946	0.875	7.5	92	0.00
32	T	1,1,1-Trichloroethane	1.093	1.060	3.0	92	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.792	9.7	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.346	0.340	1.7	92	0.00
36	T	1,1-Dichloropropene	0.448	0.424	5.4	95	0.00
37	T	Ethyl Acetate	0.553	0.560	-1.3	96	0.00
38	T	Carbon Tetrachloride	0.482	0.466	3.3	92	0.00
39	T	Methylcyclohexane	0.535	0.528	1.3	94	0.00
40	TM	Benzene	1.359	1.397	-2.8	98	0.00
41	T	Methacrylonitrile	0.294	0.292	0.7	96	0.00
42	TM	1,2-Dichloroethane	0.560	0.554	1.1	94	0.00
43	T	Isopropyl Acetate	0.865	0.877	-1.4	95	0.00
44	TM	Trichloroethene	0.339	0.347	-2.4	99	0.00
45	C	1,2-Dichloropropane	0.347	0.349	-0.6#	97	0.00
46	T	Dibromomethane	0.269	0.280	-4.1	97	0.00
47	T	Bromodichloromethane	0.465	0.496	-6.7	97	0.00
48	T	Methyl methacrylate	0.420	0.412	1.9	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.007	0.006	14.3	78	0.00
50	S	Toluene-d8	1.168	1.114	4.6	88	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.558	-0.4	94	0.00
52	CM	Toluene	0.853	0.833	2.3#	94	0.00
53	T	t-1,3-Dichloropropene	0.455	0.470	-3.3	91	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.526	-3.7	92	0.00
55	T	1,1,2-Trichloroethane	0.339	0.360	-6.2	100	0.00
56	T	Ethyl methacrylate	0.535	0.554	-3.6	95	0.00
57	T	1,3-Dichloropropane	0.590	0.600	-1.7	97	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.273	-1.1	92	0.00
59	T	2-Hexanone	0.403	0.410	-1.7	92	0.00
60	T	Dibromochloromethane	0.326	0.346	-6.1	93	0.00
61	T	1,2-Dibromoethane	0.345	0.361	-4.6	97	0.00
62	S	4-Bromofluorobenzene	0.408	0.378	7.4	85	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.332	0.328	1.2	99	0.00
65	PM	Chlorobenzene	1.071	1.072	-0.1	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.367	-6.7	95	0.00
67	C	Ethyl Benzene	1.851	1.810	2.2#	91	0.00
68	T	m/p-Xylenes	0.679	0.687	-1.2	94	0.00
69	T	o-Xylene	0.687	0.694	-1.0	95	0.00
70	T	Styrene	1.102	1.146	-4.0	95	0.00
71	P	Bromoform	0.219	0.241	-10.0	94	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	3.828	3.704	3.2	92	0.00
74	T	N-amyl acetate	1.769	1.820	-2.9	92	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.359	-2.3	99	0.00
76	T	1,2,3-Trichloropropane	1.116	1.079	3.3	93	0.00
77	T	Bromobenzene	0.928	0.940	-1.3	97	0.00
78	T	n-propylbenzene	4.231	4.152	1.9	89	0.00
79	T	2-Chlorotoluene	2.736	2.584	5.6	90	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.072	3.2	90	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.343	1.2	90	0.00
82	T	4-Chlorotoluene	3.030	2.873	5.2	89	0.00
83	T	tert-Butylbenzene	3.137	3.069	2.2	91	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.121	-0.1	92	0.00
85	T	sec-Butylbenzene	3.808	3.678	3.4	89	0.00
86	T	p-Isopropyltoluene	3.170	3.084	2.7	89	0.00
87	T	1,3-Dichlorobenzene	1.621	1.607	0.9	92	0.00
88	T	1,4-Dichlorobenzene	1.667	1.616	3.1	94	0.00
89	T	n-Butylbenzene	2.665	2.602	2.4	89	0.00
90	T	Hexachloroethane	0.463	0.463	0.0	88	0.00
91	T	1,2-Dichlorobenzene	1.683	1.678	0.3	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.250	3.1	89	0.00
93	T	1,2,4-Trichlorobenzene	0.923	0.932	-1.0	92	0.00
94	T	Hexachlorobutadiene	0.371	0.369	0.5	97	0.00
95	T	Naphthalene	3.603	3.524	2.2	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	0.985	-0.6	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	102	0.00
2	T	Dichlorodifluoromethane	50.000	50.775	-1.5	102	0.00
3	P	Chloromethane	50.000	54.472	-8.9	109	0.00
4	C	Vinyl Chloride	50.000	52.134	-4.3#	105	0.00
5	T	Bromomethane	50.000	48.160	3.7	98	0.00
6	T	Chloroethane	50.000	58.090	-16.2	107	0.00
7	T	Trichlorofluoromethane	50.000	40.971	18.1	82	0.00
8	T	Diethyl Ether	50.000	46.745	6.5	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.265	5.5	96	0.00
10	T	Methyl Iodide	50.000	53.424	-6.8	104	0.00
11	T	Tert butyl alcohol	250.000	194.195	22.3	82	0.00
12	CM	1,1-Dichloroethene	50.000	51.687	-3.4#	100	0.00
13	T	Acrolein	250.000	285.631	-14.3	113	0.00
14	T	Allyl chloride	50.000	50.834	-1.7	96	0.00
15	T	Acrylonitrile	250.000	258.021	-3.2	101	0.00
16	T	Acetone	250.000	214.267	14.3	82	0.00
17	T	Carbon Disulfide	50.000	49.563	0.9	94	0.00
18	T	Methyl Acetate	50.000	49.494	1.0	98	0.00
19	T	Methyl tert-butyl Ether	50.000	49.479	1.0	96	0.00
20	T	Methylene Chloride	50.000	51.772	-3.5	103	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.653	-1.3	100	0.00
22	T	Diisopropyl ether	50.000	49.594	0.8	98	0.00
23	T	Vinyl Acetate	250.000	269.370	-7.7	99	0.00
24	P	1,1-Dichloroethane	50.000	51.258	-2.5	99	0.00
25	T	2-Butanone	250.000	244.389	2.2	93	0.00
26	T	2,2-Dichloropropane	50.000	42.309	15.4	79	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.424	-0.8	101	0.00
28	T	Bromochloromethane	50.000	48.821	2.4	97	0.00
29	T	Tetrahydrofuran	250.000	245.825	1.7	97	0.00
30	C	Chloroform	50.000	48.758	2.5#	98	0.00
31	T	Cyclohexane	50.000	46.246	7.5	92	0.00
32	T	1,1,1-Trichloroethane	50.000	48.484	3.0	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.184	9.6	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	49.020	2.0	92	0.00
36	T	1,1-Dichloropropene	50.000	47.323	5.4	95	0.00
37	T	Ethyl Acetate	50.000	50.635	-1.3	96	0.00
38	T	Carbon Tetrachloride	50.000	48.318	3.4	92	0.00
39	T	Methylcyclohexane	50.000	49.289	1.4	94	0.00
40	TM	Benzene	50.000	51.403	-2.8	98	0.00
41	T	Methacrylonitrile	50.000	49.647	0.7	96	0.00
42	TM	1,2-Dichloroethane	50.000	49.504	1.0	94	0.00
43	T	Isopropyl Acetate	50.000	50.693	-1.4	95	0.00
44	TM	Trichloroethene	50.000	51.229	-2.5	99	0.00
45	C	1,2-Dichloropropane	50.000	50.319	-0.6#	97	0.00
46	T	Dibromomethane	50.000	51.979	-4.0	97	0.00
47	T	Bromodichloromethane	50.000	53.349	-6.7	97	0.00
48	T	Methyl methacrylate	50.000	49.082	1.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	854.459	14.6	78	0.00
50	S	Toluene-d8	50.000	47.694	4.6	88	0.00
51	T	4-Methyl-2-Pentanone	250.000	251.054	-0.4	94	0.00
52	CM	Toluene	50.000	48.790	2.4#	94	0.00
53	T	t-1,3-Dichloropropene	50.000	47.246	5.5	91	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.907	-3.8	92	0.00
55	T	1,1,2-Trichloroethane	50.000	53.041	-6.1	100	0.00
56	T	Ethyl methacrylate	50.000	51.786	-3.6	95	0.00
57	T	1,3-Dichloropropane	50.000	50.869	-1.7	97	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	253.061	-1.2	92	0.00
59	T	2-Hexanone	250.000	254.459	-1.8	92	0.00
60	T	Dibromochloromethane	50.000	48.292	3.4	93	0.00
61	T	1,2-Dibromoethane	50.000	52.335	-4.7	97	0.00
62	S	4-Bromofluorobenzene	50.000	46.251	7.5	85	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	49.442	1.1	99	0.00
65	PM	Chlorobenzene	50.000	50.011	-0.0	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.289	-6.6	95	0.00
67	C	Ethyl Benzene	50.000	48.877	2.2#	91	0.00
68	T	m/p-Xylenes	100.000	101.186	-1.2	94	0.00
69	T	o-Xylene	50.000	50.475	-1.0	95	0.00
70	T	Styrene	50.000	51.996	-4.0	95	0.00
71	P	Bromoform	50.000	50.123	-0.2	94	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73	T	Isopropylbenzene	50.000	48.386	3.2	92	0.00
74	T	N-amyl acetate	50.000	51.447	-2.9	92	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.128	-2.3	99	0.00
76	T	1,2,3-Trichloropropane	50.000	48.329	3.3	93	0.00
77	T	Bromobenzene	50.000	50.614	-1.2	97	0.00
78	T	n-propylbenzene	50.000	49.070	1.9	89	0.00
79	T	2-Chlorotoluene	50.000	47.227	5.5	90	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.394	3.2	90	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.685	10.6	90	0.00
82	T	4-Chlorotoluene	50.000	47.419	5.2	89	0.00
83	T	tert-Butylbenzene	50.000	48.916	2.2	91	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.060	-0.1	92	0.00
85	T	sec-Butylbenzene	50.000	48.287	3.4	89	0.00
86	T	p-Isopropyltoluene	50.000	48.641	2.7	89	0.00
87	T	1,3-Dichlorobenzene	50.000	49.564	0.9	92	0.00
88	T	1,4-Dichlorobenzene	50.000	48.473	3.1	94	0.00
89	T	n-Butylbenzene	50.000	48.803	2.4	89	0.00
90	T	Hexachloroethane	50.000	50.075	-0.2	88	0.00
91	T	1,2-Dichlorobenzene	50.000	49.849	0.3	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.520	3.0	89	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.503	-1.0	92	0.00
94	T	Hexachlorobutadiene	50.000	49.682	0.6	97	0.00
95	T	Naphthalene	50.000	48.907	2.2	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	50.326	-0.7	94	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.854		10.48	20
Chloromethane	0.739	0.782	0.1	5.82	20
Vinyl Chloride	0.770	0.798		3.64	20
Bromomethane	0.546	0.532		-2.56	20
Chloroethane	0.480	0.473		-1.46	20
Trichlorofluoromethane	1.508	1.482		-1.72	20
1,1,2-Trichlorotrifluoroethane	0.610	0.676		10.82	20
1,1-Dichloroethene	0.560	0.624		11.43	20
Acetone	0.357	0.291		-18.49	20
Carbon Disulfide	1.065	1.106		3.85	20
Methyl tert-butyl Ether	2.187	2.093		-4.3	20
Methyl Acetate	0.922	0.896		-2.82	20
Methylene Chloride	0.671	0.689		2.68	20
trans-1,2-Dichloroethene	0.596	0.625		4.87	20
1,1-Dichloroethane	1.172	1.203	0.1	2.64	20
Cyclohexane	0.946	1.000		5.71	20
2-Butanone	0.508	0.457		-10.04	20
Carbon Tetrachloride	0.482	0.533		10.58	20
cis-1,2-Dichloroethene	0.756	0.755		-0.13	20
Bromochloromethane	0.575	0.553		-3.83	20
Chloroform	1.316	1.265		-3.88	20
1,1,1-Trichloroethane	1.093	1.099		0.55	20
Methylcyclohexane	0.535	0.648		21.12	20
Benzene	1.359	1.529		12.51	20
1,2-Dichloroethane	0.560	0.586		4.64	20
Trichloroethene	0.339	0.388		14.45	20
1,2-Dichloropropane	0.347	0.369		6.34	20
Bromodichloromethane	0.465	0.525		12.9	20
4-Methyl-2-Pentanone	0.556	0.573		3.06	20
Toluene	0.853	0.924		8.32	20
t-1,3-Dichloropropene	0.455	0.517		13.63	20
cis-1,3-Dichloropropene	0.507	0.577		13.81	20
1,1,2-Trichloroethane	0.339	0.374		10.32	20
2-Hexanone	0.403	0.414		2.73	20
Dibromochloromethane	0.326	0.381		16.87	20
1,2-Dibromoethane	0.345	0.385		11.59	20
Tetrachloroethene	0.332	0.378		13.85	20
Chlorobenzene	1.071	1.187	0.3	10.83	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	2.034		9.89	20
m/p-Xylenes	0.679	0.780		14.88	20
o-Xylene	0.687	0.748		8.88	20
Styrene	1.102	1.275		15.7	20
Bromoform	0.219	0.266	0.1	21.46	20
Isopropylbenzene	3.828	4.095		6.97	20
1,1,2,2-Tetrachloroethane	1.329	1.387	0.3	4.36	20
1,3-Dichlorobenzene	1.621	1.811		11.72	20
1,4-Dichlorobenzene	1.667	1.781		6.84	20
1,2-Dichlorobenzene	1.684	1.820		8.08	20
1,2-Dibromo-3-Chloropropane	0.258	0.253		-1.94	20
1,2,4-Trichlorobenzene	0.923	1.098		18.96	20
1,2,3-Trichlorobenzene	0.979	1.140		16.44	20
1,2-Dichloroethane-d4	0.877	0.836		-4.68	20
Dibromofluoromethane	0.346	0.392		13.3	20
Toluene-d8	1.168	1.318		12.84	20
4-Bromofluorobenzene	0.408	0.454		11.27	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\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	136445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	226018	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	197543	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95339	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	114063	47.679	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.360%			
35) Dibromofluoromethane	5.379	113	88578	56.586	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.180%			
50) Toluene-d8	8.647	98	297779	56.385	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.780%			
62) 4-Bromofluorobenzene	11.079	95	102676	55.640	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	116500	55.219	ug/l	95
3) Chloromethane	1.294	50	106640	52.856	ug/l	99
4) Vinyl Chloride	1.374	62	108930	51.825	ug/l	96
5) Bromomethane	1.593	94	72530	48.640	ug/l	100
6) Chloroethane	1.666	64	64589	49.350	ug/l	100
7) Trichlorofluoromethane	1.867	101	202222	49.144	ug/l	98
8) Diethyl Ether	2.136	74	65414	46.573	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	92304	55.436	ug/l	97
10) Methyl Iodide	2.441	142	117927	53.737	ug/l	96
11) Tert butyl alcohol	2.995	59	69873	207.237	ug/l	99
12) 1,1-Dichloroethene	2.306	96	85110	55.650	ug/l	93
13) Acrolein	2.239	56	105437	216.034	ug/l	99
14) Allyl chloride	2.654	41	131432	51.595	ug/l	96
15) Acrylonitrile	3.069	53	228880	245.064	ug/l	99
16) Acetone	2.386	43	198245	203.262	ug/l	97
17) Carbon Disulfide	2.502	76	150886	51.902	ug/l	100
18) Methyl Acetate	2.703	43	122242	48.611	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	285547	47.845	ug/l	98
20) Methylene Chloride	2.782	84	94061	51.347	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	85292	52.474	ug/l	96
22) Diisopropyl ether	3.764	45	281255	49.031	ug/l	95
23) Vinyl Acetate	3.721	43	1209209	259.287	ug/l	99
24) 1,1-Dichloroethane	3.605	63	164103	51.322	ug/l	98
25) 2-Butanone	4.562	43	312065	225.066	ug/l	97
26) 2,2-Dichloropropane	4.471	77	135023	51.979	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	103072	49.931	ug/l	97
28) Bromochloromethane	4.891	49	75463	48.128	ug/l	100
29) Tetrahydrofuran	5.001	42	202559	227.599	ug/l	99
30) Chloroform	5.086	83	172568	48.035	ug/l	98
31) Cyclohexane	5.458	56	136432	52.839	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	149993	50.298	ug/l	99
36) 1,1-Dichloropropene	5.684	75	111706	55.205	ug/l	98
37) Ethyl Acetate	4.715	43	125607	50.217	ug/l	99
38) Carbon Tetrachloride	5.672	117	120478	55.304	ug/l	96
39) Methylcyclohexane	7.373	83	146379	60.512	ug/l	97
40) Benzene	6.031	78	345635	56.259	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	66821	50.310 ug/l	96
42) 1,2-Dichloroethane	6.080	62	132516	52.362 ug/l	97
43) Isopropyl Acetate	6.342	43	199677	51.076 ug/l	98
44) Trichloroethene	7.117	130	87763	57.285 ug/l	98
45) 1,2-Dichloropropane	7.427	63	83393	53.131 ug/l	98
46) Dibromomethane	7.580	93	67796	55.676 ug/l	95
47) Bromodichloromethane	7.818	83	118614	56.402 ug/l	100
48) Methyl methacrylate	7.690	41	94040	49.554 ug/l	95
49) 1,4-Dioxane	7.665	88	28510	906.120 ug/l #	82
51) 4-Methyl-2-Pentanone	8.574	43	647258	257.494 ug/l	99
52) Toluene	8.714	92	208798	54.120 ug/l	98
53) t-1,3-Dichloropropene	8.976	75	116841	51.640 ug/l	95
54) cis-1,3-Dichloropropene	8.360	75	130320	56.913 ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	84487	55.124 ug/l	98
56) Ethyl methacrylate	9.116	69	130175	53.800 ug/l	98
57) 1,3-Dichloropropane	9.305	76	143590	53.824 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	307620	252.070 ug/l	99
59) 2-Hexanone	9.427	43	467347	256.860 ug/l	97
60) Dibromochloromethane	9.519	129	86207	52.901 ug/l	99
61) 1,2-Dibromoethane	9.604	107	86930	55.721 ug/l	99
64) Tetrachloroethene	9.269	164	74735	57.001 ug/l	96
65) Chlorobenzene	10.079	112	234513	55.402 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	77487	56.959 ug/l	98
67) Ethyl Benzene	10.189	91	401792	54.936 ug/l	99
68) m/p-Xylenes	10.299	106	308013	114.771 ug/l	94
69) o-Xylene	10.640	106	147688	54.389 ug/l	98
70) Styrene	10.653	104	251875	57.862 ug/l	96
71) Bromoform	10.799	173	52602	54.671 ug/l #	98
73) Isopropylbenzene	10.957	105	390438	53.495 ug/l	100
74) N-amyl acetate	10.842	43	171638	50.885 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	132190	52.145 ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	107800m	50.641 ug/l	
77) Bromobenzene	11.195	156	95489	53.953 ug/l	95
78) n-propylbenzene	11.299	91	441589	54.741 ug/l	98
79) 2-Chlorotoluene	11.360	91	267690	51.311 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	322510	53.284 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	35051	47.498 ug/l	98
82) 4-Chlorotoluene	11.451	91	305777	52.929 ug/l	99
83) tert-Butylbenzene	11.713	119	320615	53.600 ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	327657	55.123 ug/l	98
85) sec-Butylbenzene	11.890	105	399310	54.989 ug/l	99
86) p-Isopropyltoluene	12.006	119	336593	55.691 ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	172628	55.839 ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	169778	53.422 ug/l	98
89) n-Butylbenzene	12.329	91	292244	57.503 ug/l	99
90) Hexachloroethane	12.536	117	50629	57.385 ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	173478	54.042 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24124	49.022 ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	104720	59.504 ug/l	100
94) Hexachlorobutadiene	13.725	225	43140	60.942 ug/l	97
95) Naphthalene	13.774	128	369385	53.772 ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	108667	58.216 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

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\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
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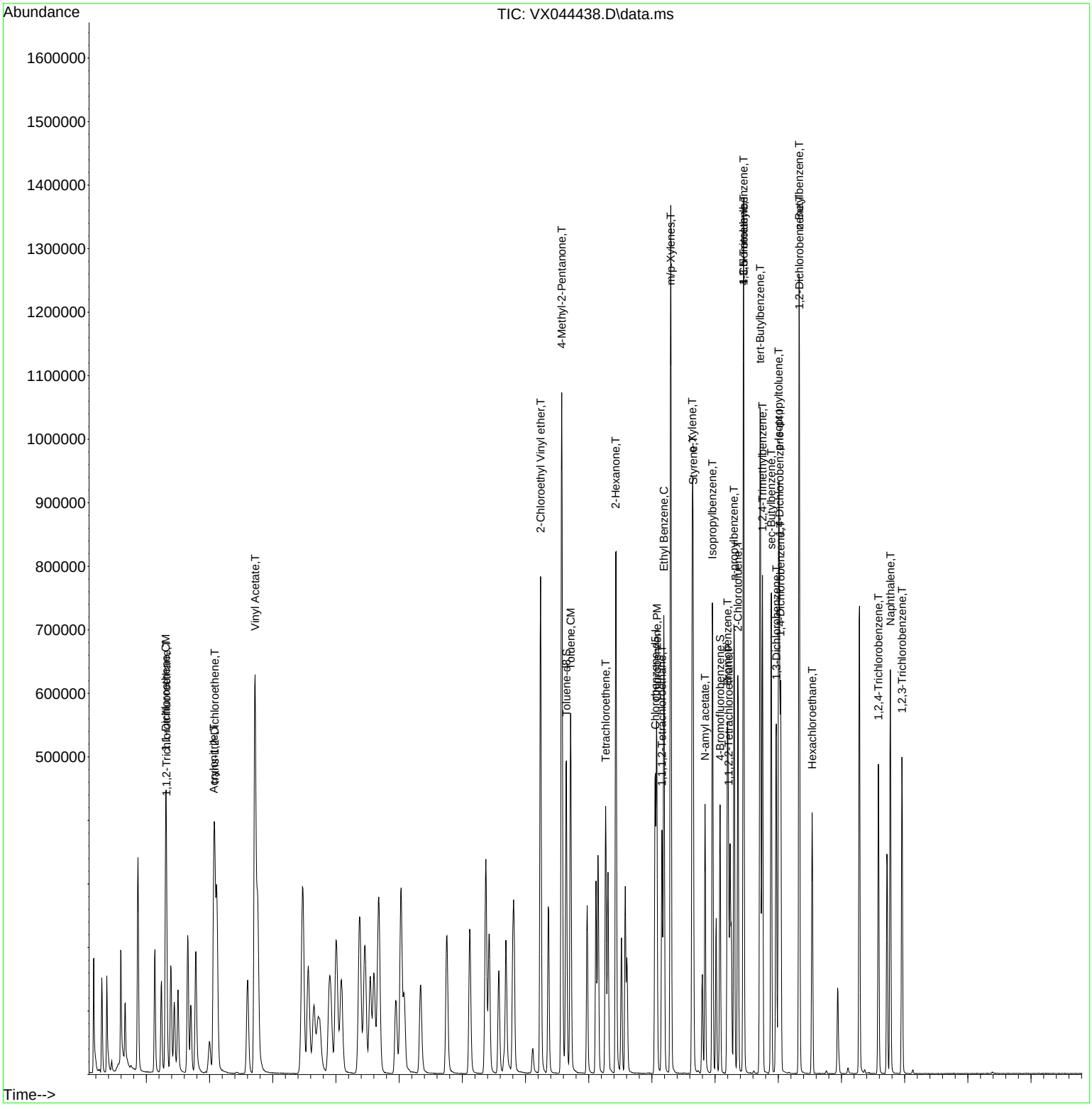
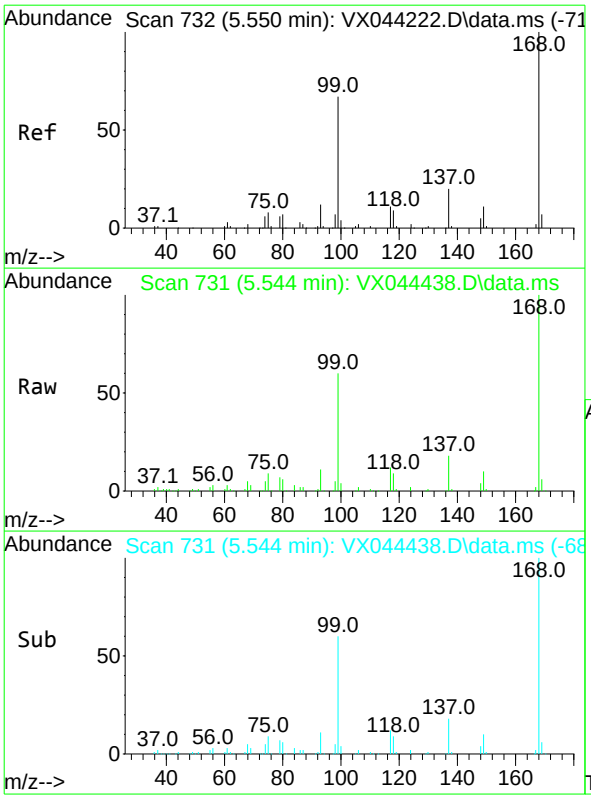
Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

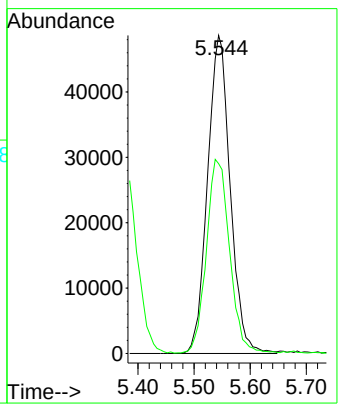




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:168 Resp: 136445

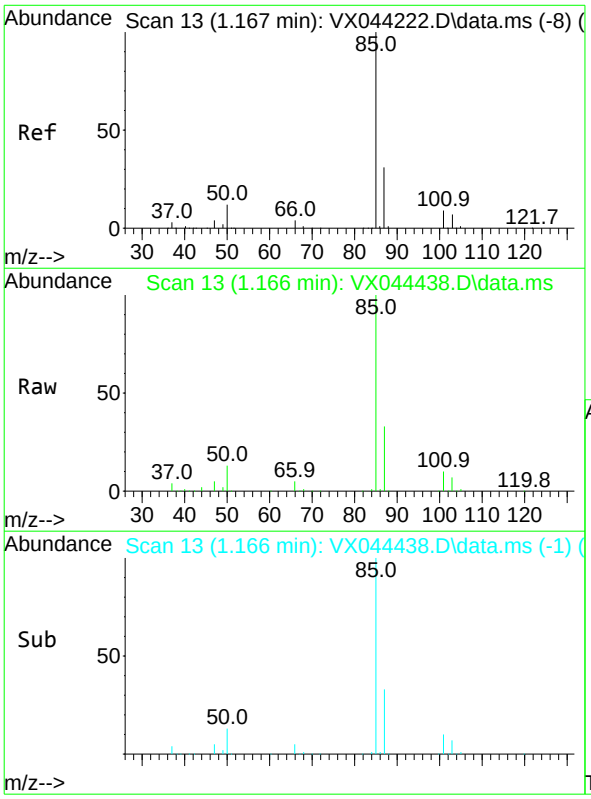
Ion	Ratio	Lower	Upper
168	100		
99	59.5	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

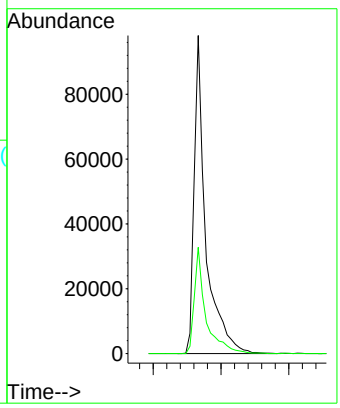
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

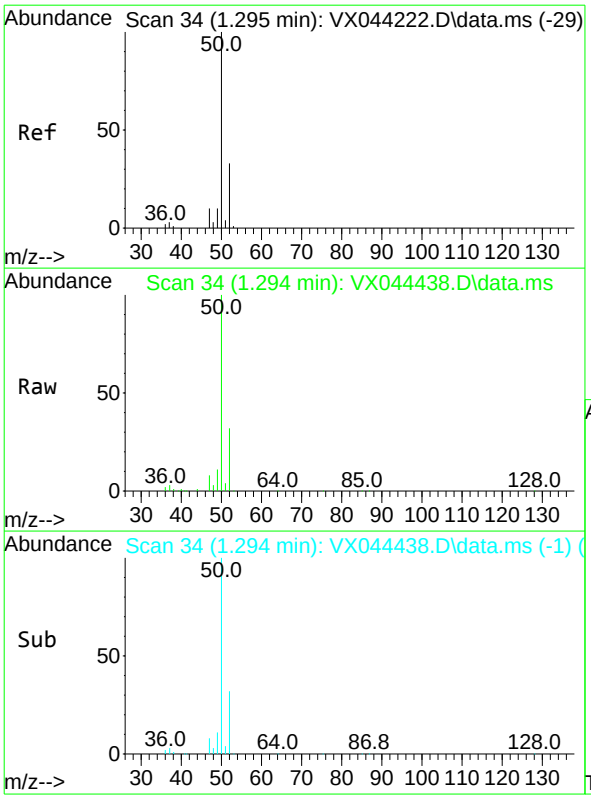


#2
Dichlorodifluoromethane
Concen: 55.219 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 85 Resp: 116500

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4

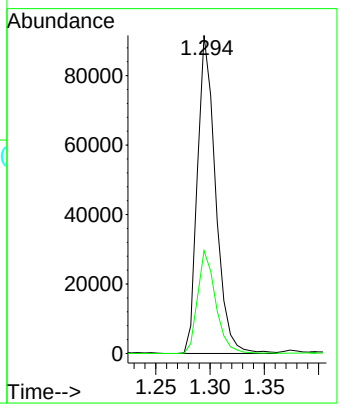




#3
Chloromethane
Concen: 52.856 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 50 Resp: 106640

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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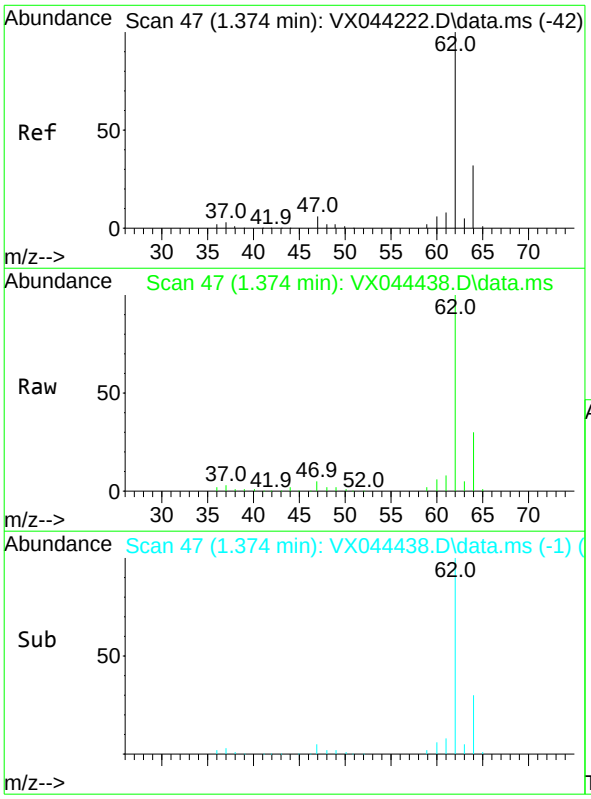
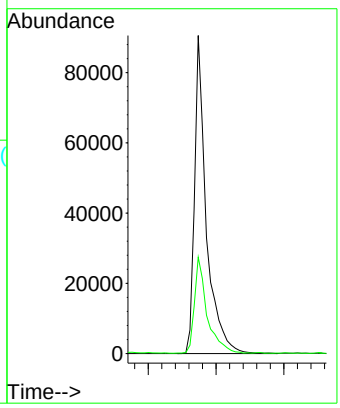
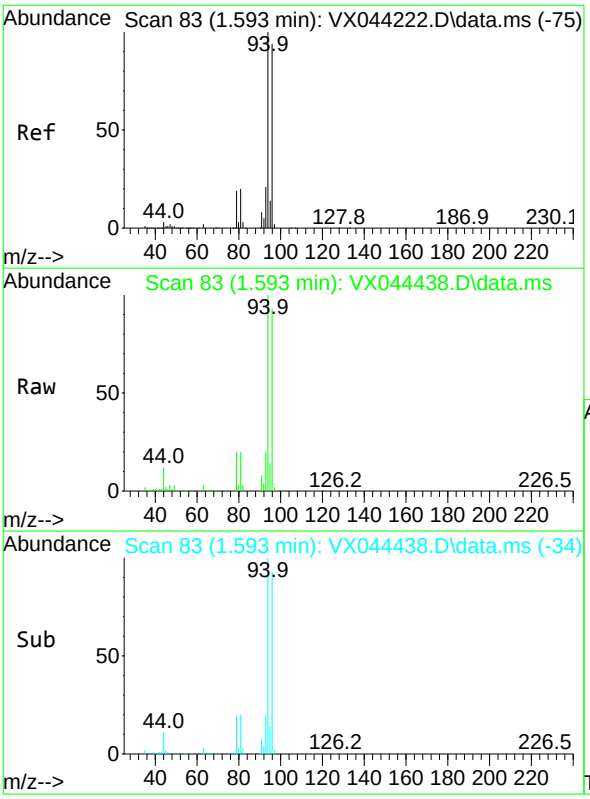


#4
Vinyl Chloride
Concen: 51.825 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 108930

Ion	Ratio	Lower	Upper
62	100		
64	30.1	25.7	38.5

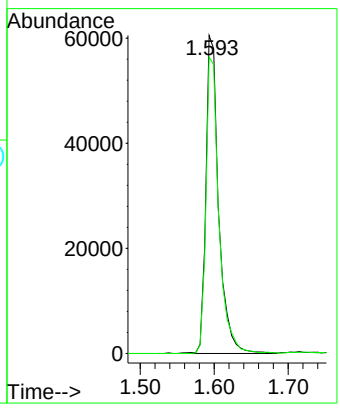




#5
Bromomethane
Concen: 48.640 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 94 Resp: 72530

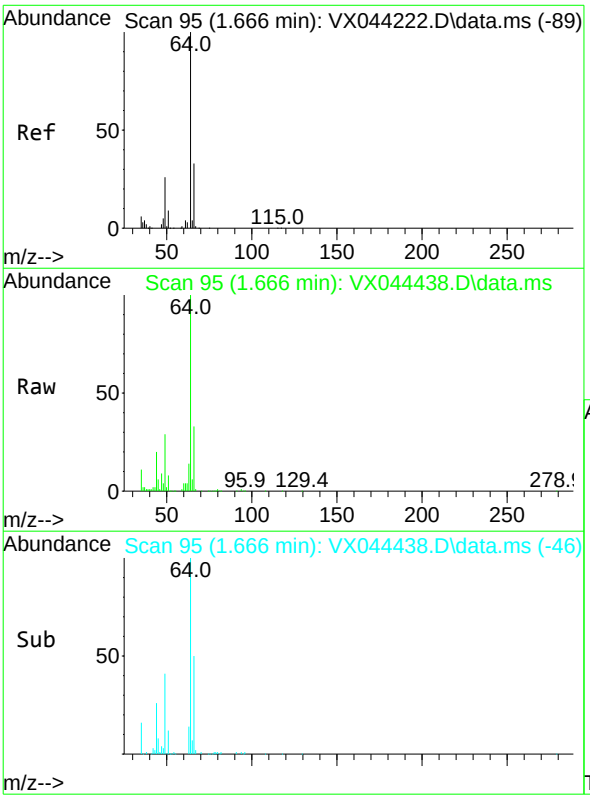
Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

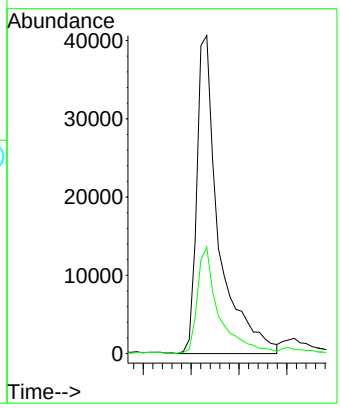
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

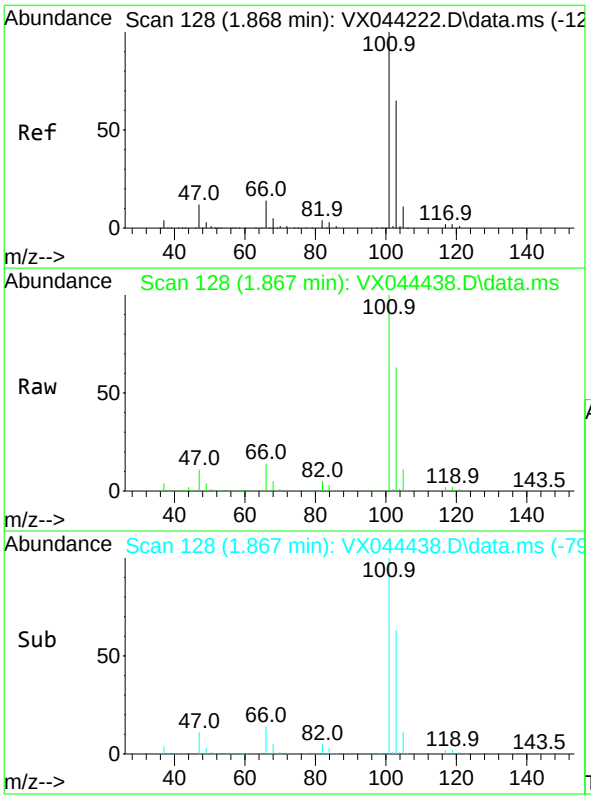


#6
Chloroethane
Concen: 49.350 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 64 Resp: 64589

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.6	39.8

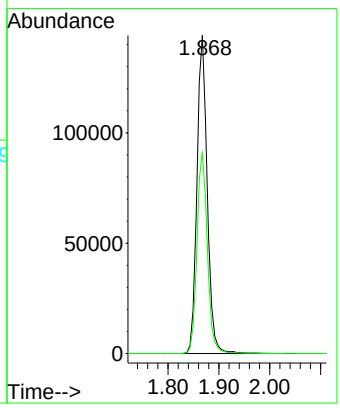




#7
Trichlorofluoromethane
Concen: 49.144 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:101 Resp: 202222

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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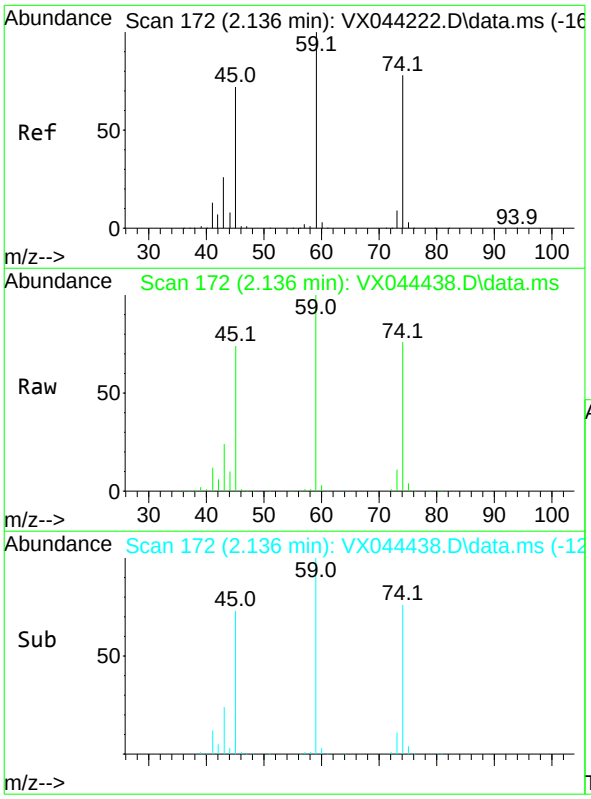
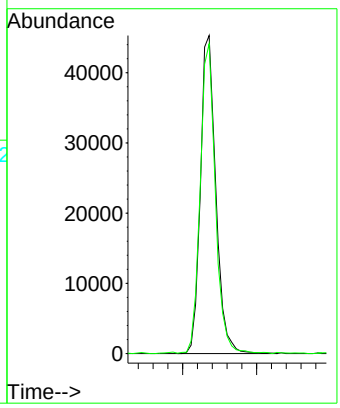
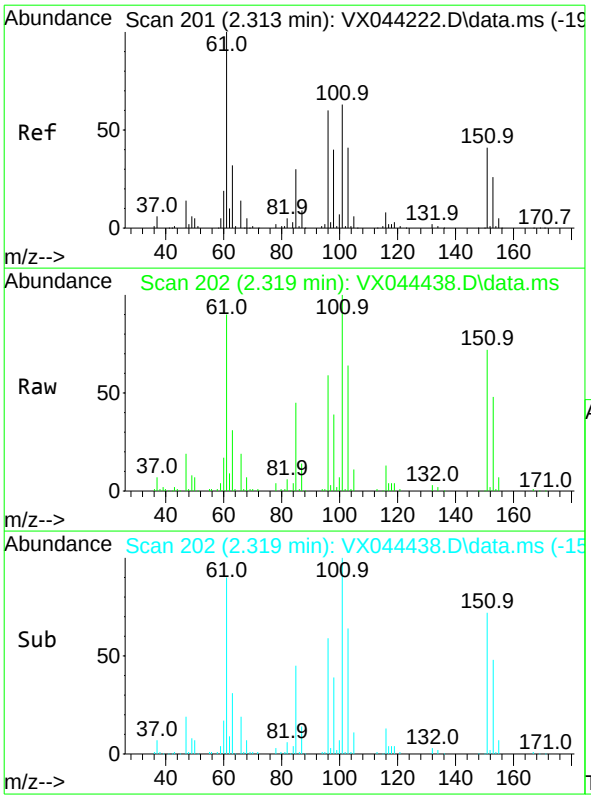


#8
Diethyl Ether
Concen: 46.573 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 74 Resp: 65414

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.4	145.0

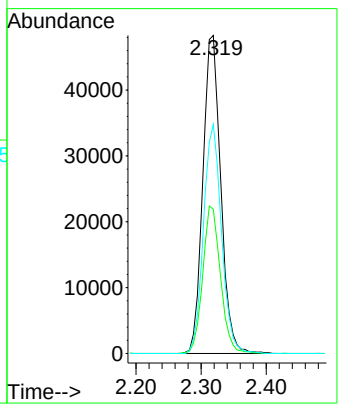




#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.436 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:101 Resp: 92304

Ion	Ratio	Lower	Upper
101	100		
85	46.0	38.5	57.7
151	72.5	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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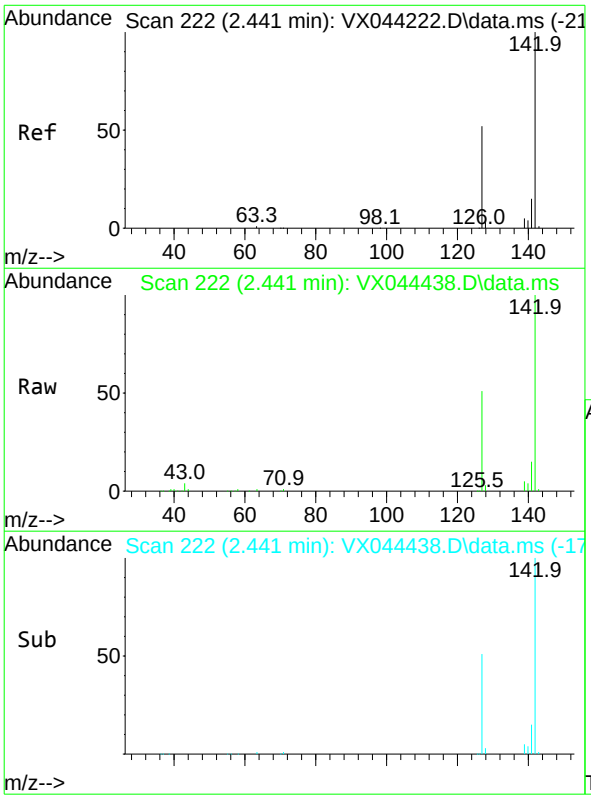
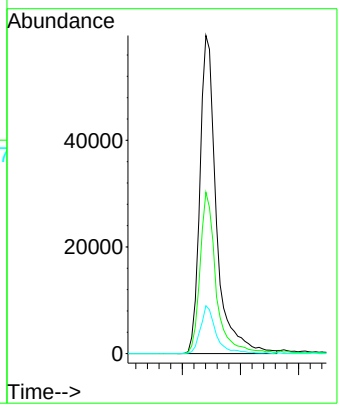
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

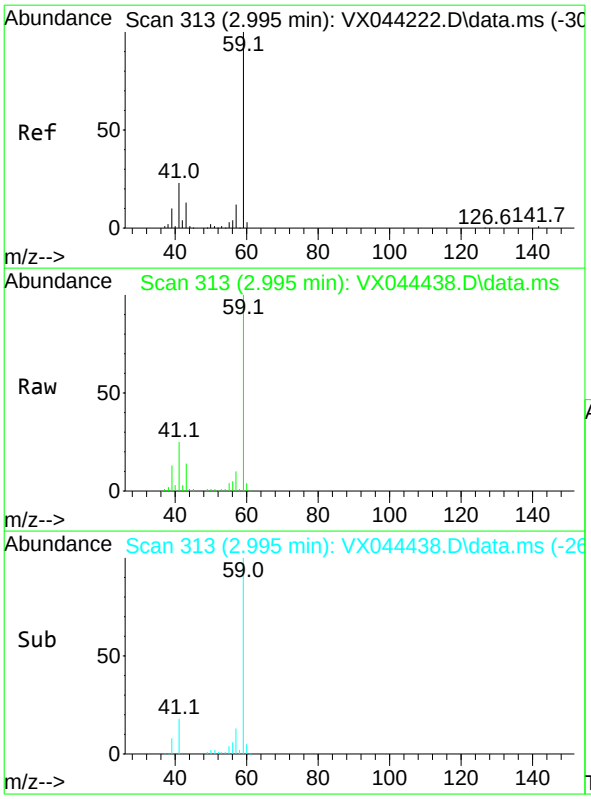


#10
Methyl Iodide
Concen: 53.737 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:142 Resp: 117927

Ion	Ratio	Lower	Upper
142	100		
127	49.2	41.8	62.8
141	14.2	11.5	17.3

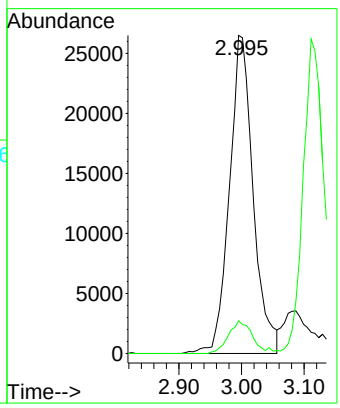




#11
Tert butyl alcohol
Concen: 207.237 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 59 Resp: 69873

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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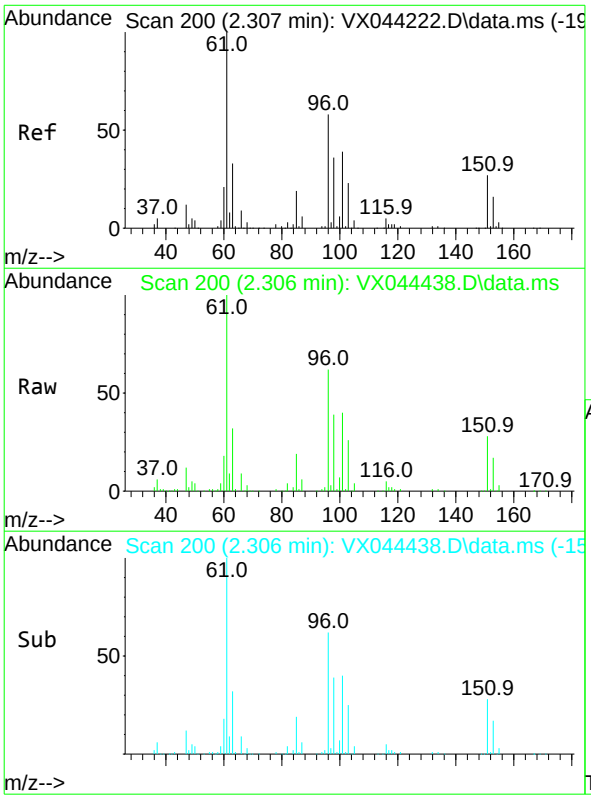
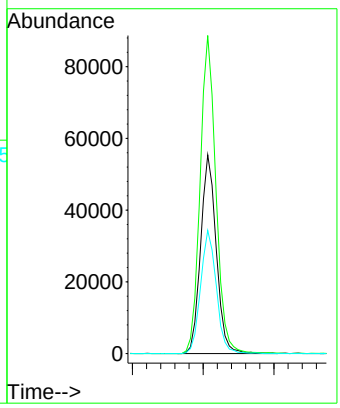
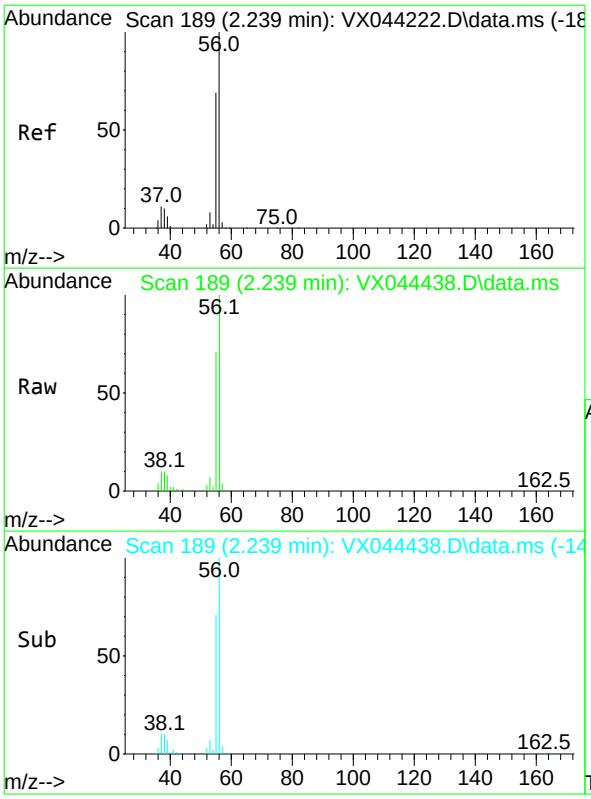


#12
1,1-Dichloroethene
Concen: 55.650 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 96 Resp: 85110

Ion	Ratio	Lower	Upper
96	100		
61	160.0	138.0	207.0
98	62.0	50.0	75.0

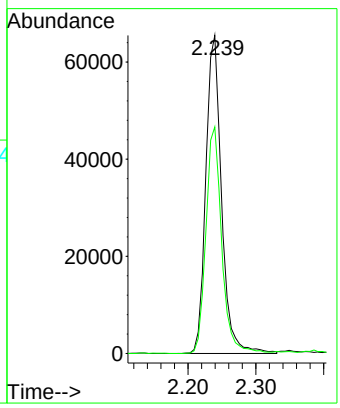




#13
Acrolein
Concen: 216.034 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 56 Resp: 105437

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.6	84.8



Instrument :
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ClientSampleId :
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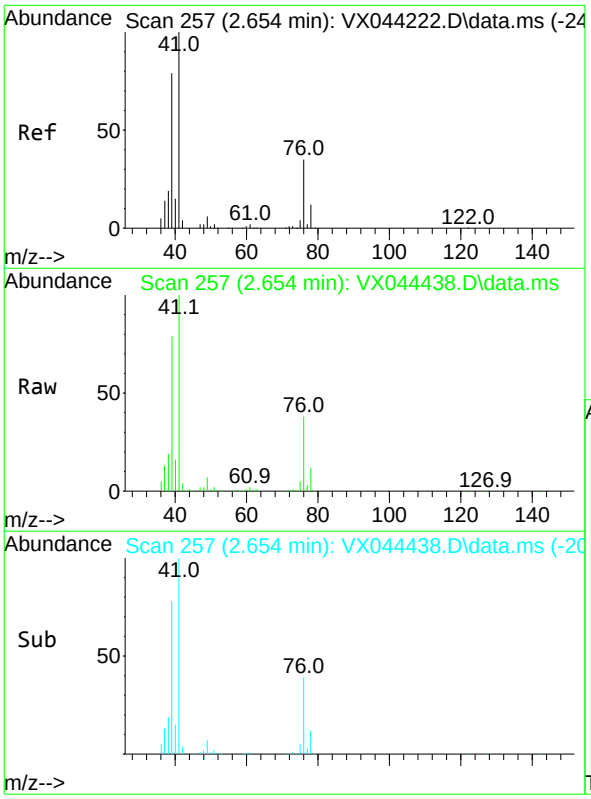
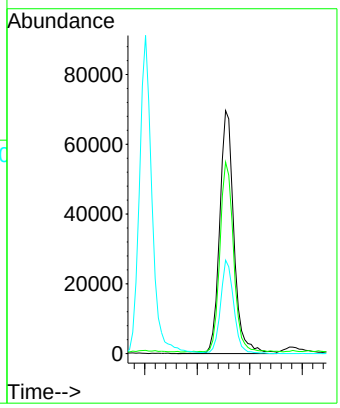
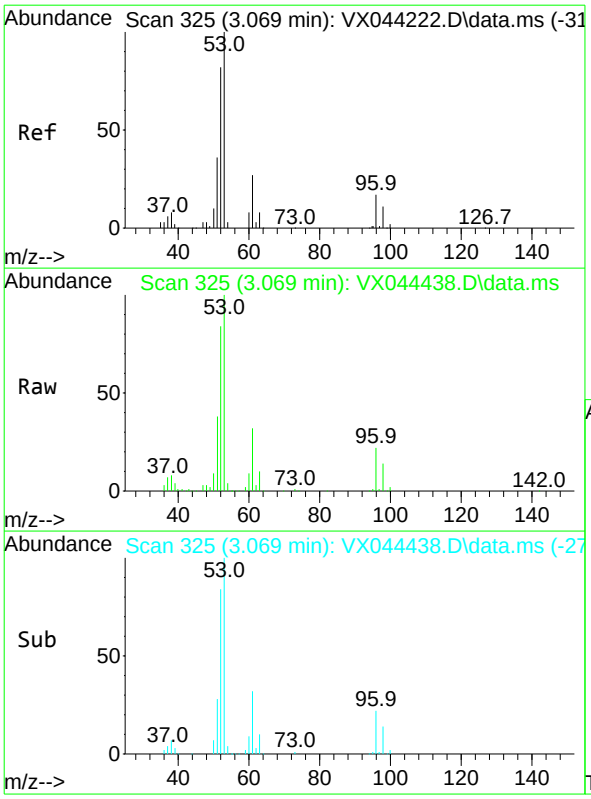


#14
Allyl chloride
Concen: 51.595 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 131432

Ion	Ratio	Lower	Upper
41	100		
39	73.8	61.9	92.9
76	35.5	27.4	41.2

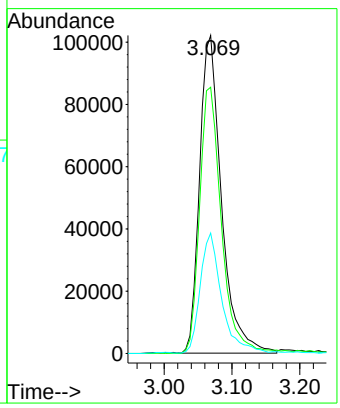




#15
Acrylonitrile
Concen: 245.064 ug/l
RT: 3.069 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 53 Resp: 228880

Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.4	101.0
51	37.1	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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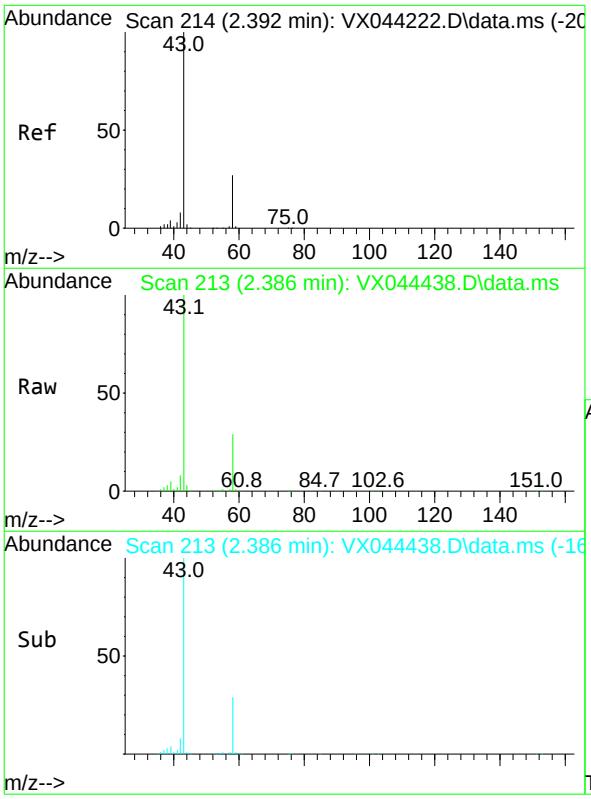
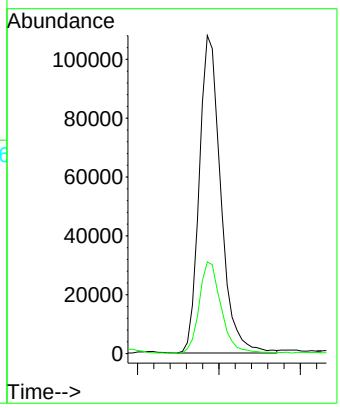
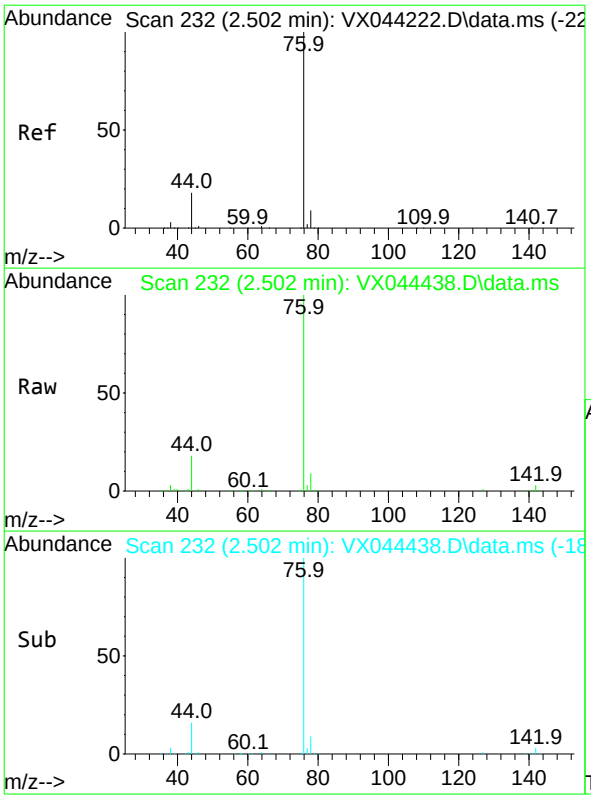


#16
Acetone
Concen: 203.262 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 198245

Ion	Ratio	Lower	Upper
43	100		
58	28.7	21.6	32.4

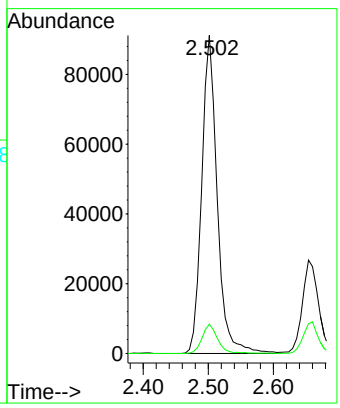




#17
Carbon Disulfide
Concen: 51.902 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 76 Resp: 150886

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
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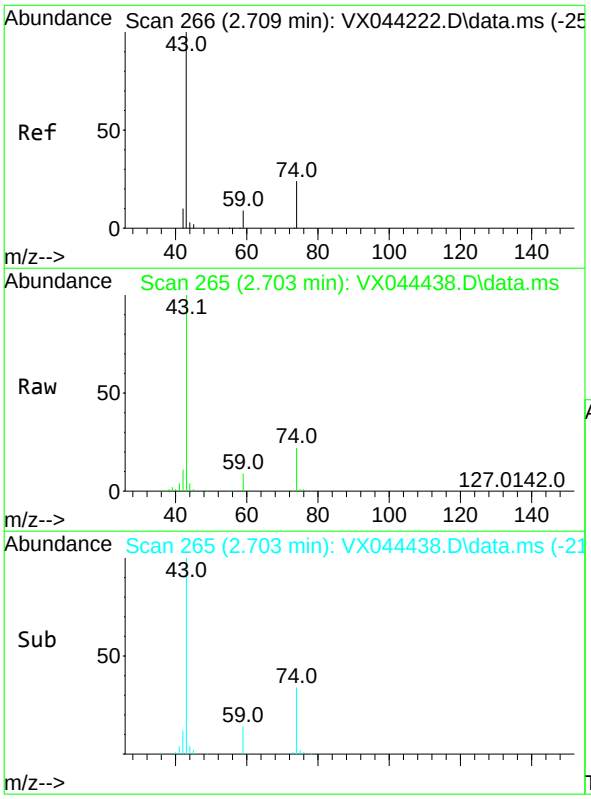
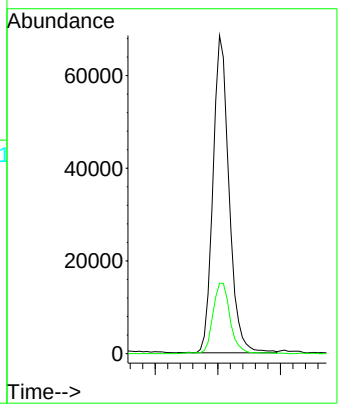
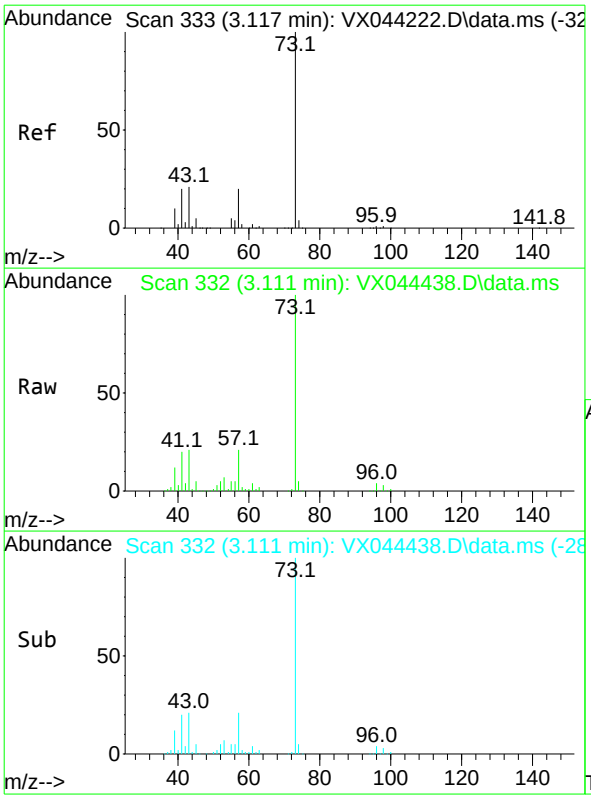


#18
Methyl Acetate
Concen: 48.611 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 122242

Ion	Ratio	Lower	Upper
43	100		
74	23.7	17.7	26.5

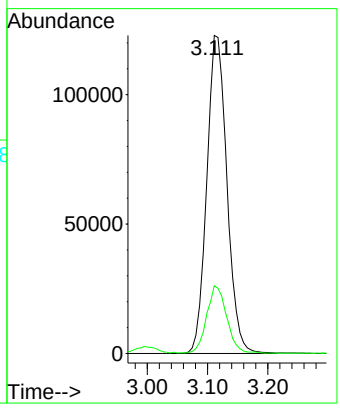




#19
Methyl tert-butyl Ether
Concen: 47.845 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 73 Resp: 285547

Ion	Ratio	Lower	Upper
73	100		
57	21.2	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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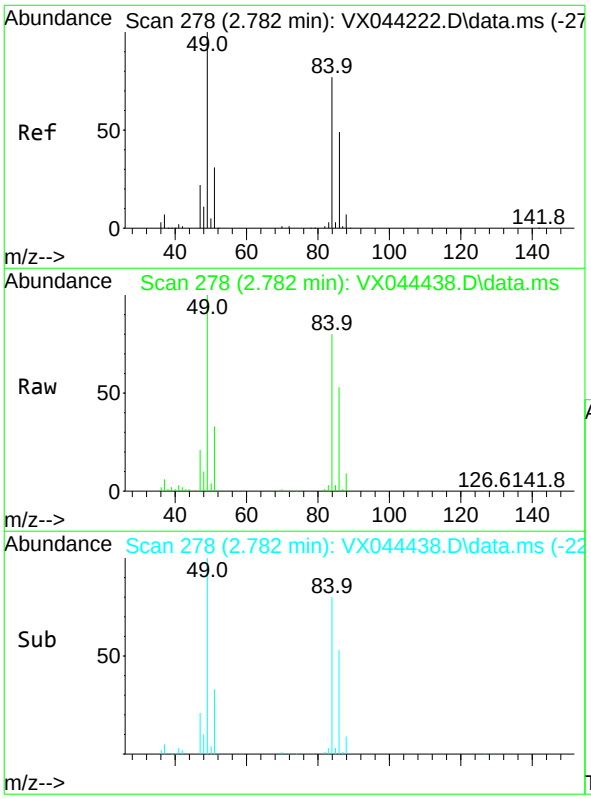
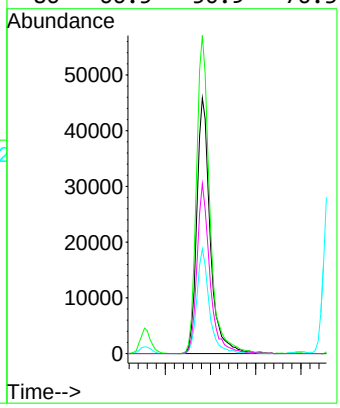
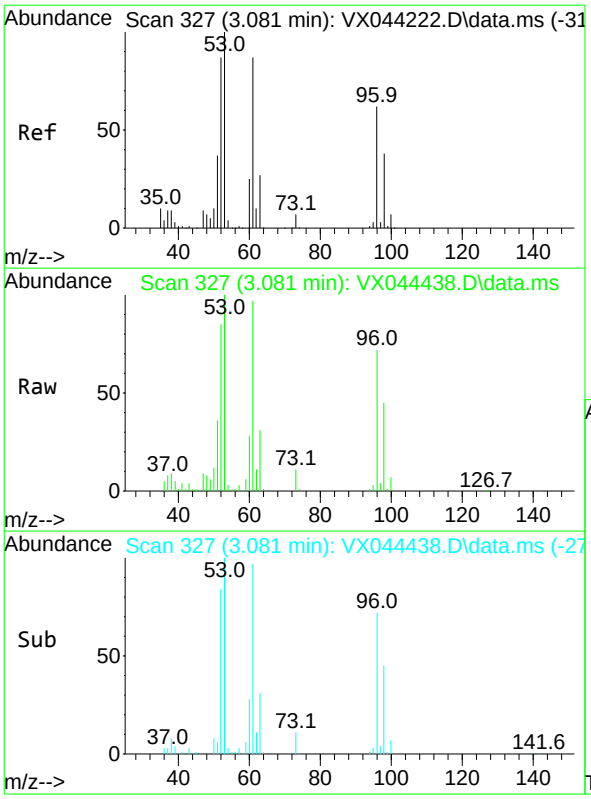


#20
Methylene Chloride
Concen: 51.347 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 84 Resp: 94061

Ion	Ratio	Lower	Upper
84	100		
49	124.4	104.2	156.4
51	40.9	32.2	48.4
86	66.5	50.9	76.3

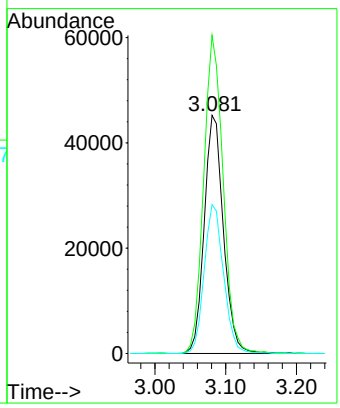




#21
trans-1,2-Dichloroethene
Concen: 52.474 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 96 Resp: 85292

Ion	Ratio	Lower	Upper
96	100		
61	133.6	112.0	168.0
98	62.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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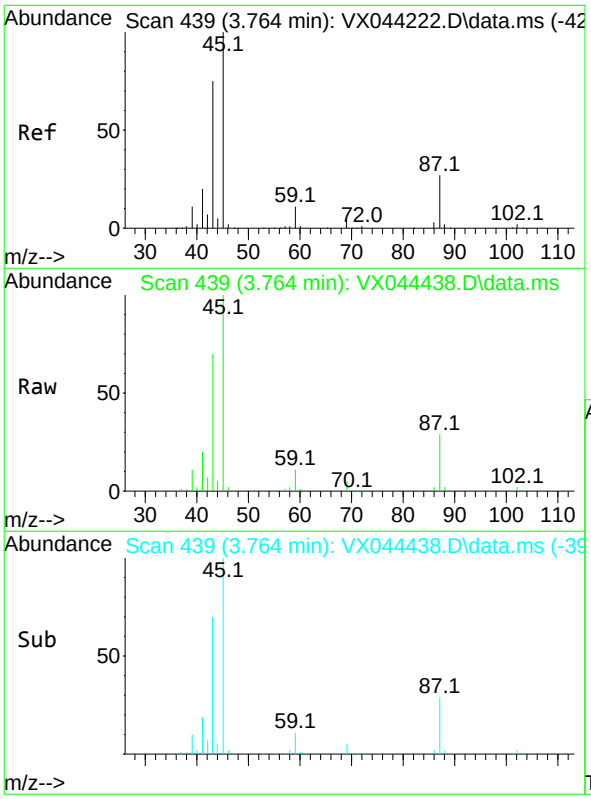
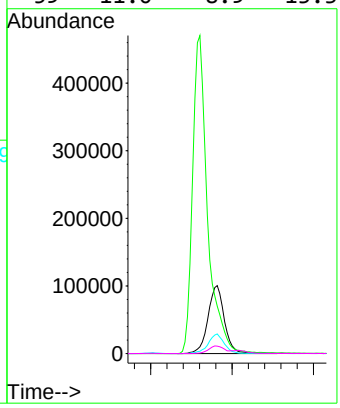
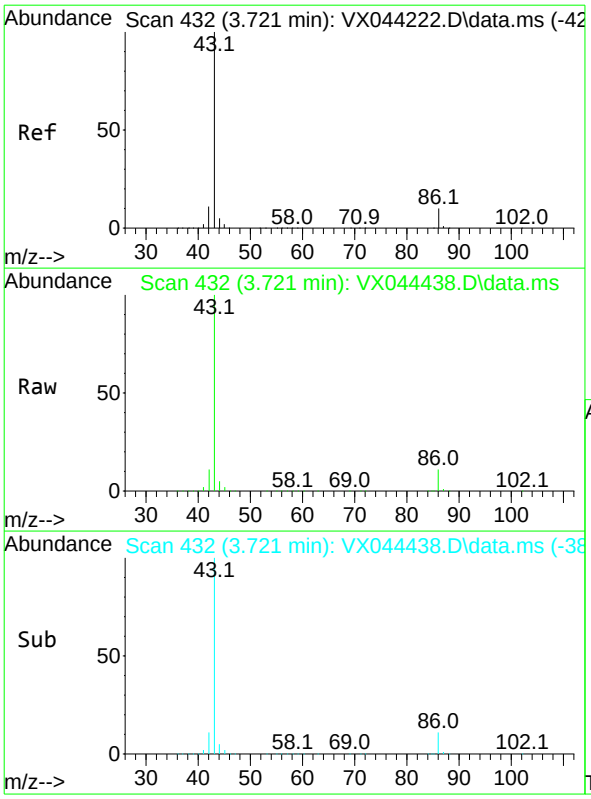


#22
Diisopropyl ether
Concen: 49.031 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 45 Resp: 281255

Ion	Ratio	Lower	Upper
45	100		
43	69.9	60.2	90.2
87	28.8	21.2	31.8
59	11.0	8.9	13.3

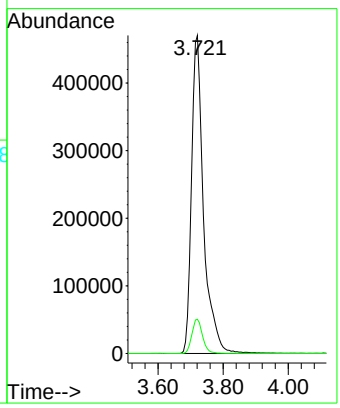




#23
Vinyl Acetate
Concen: 259.287 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 1209209

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2



Instrument :
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ClientSampleId :
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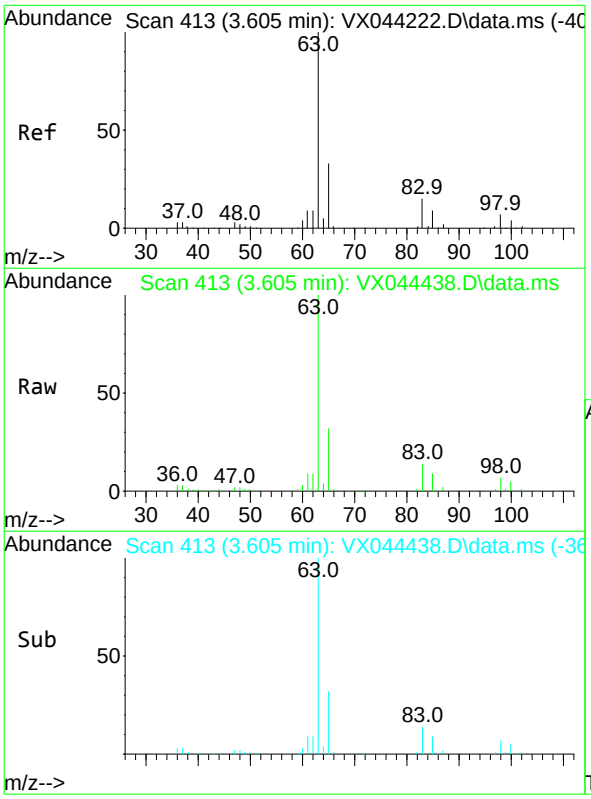
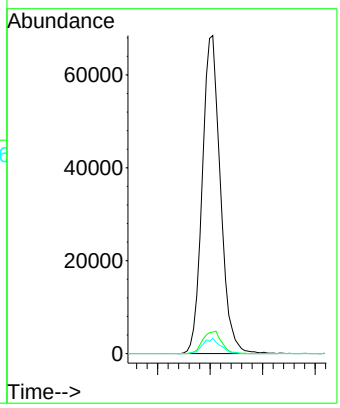
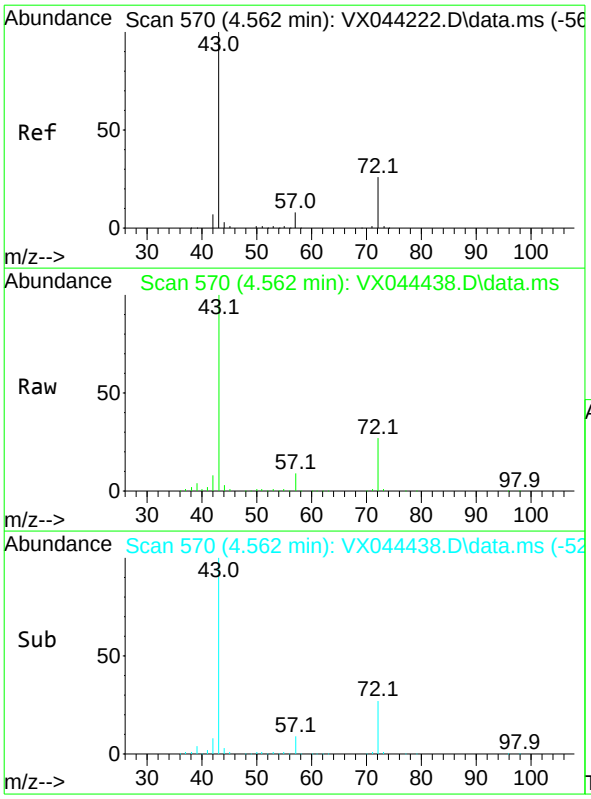


#24
1,1-Dichloroethane
Concen: 51.322 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 164103

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.6	10.8
100	4.8	2.1	6.3

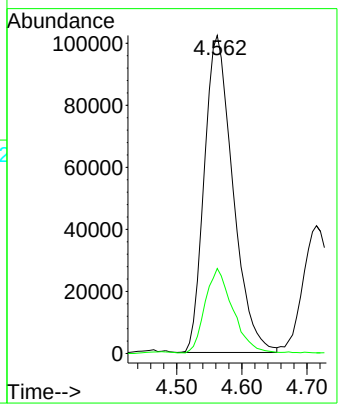




#25
2-Butanone
Concen: 225.066 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 312065

Ion	Ratio	Lower	Upper
43	100		
72	26.6	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
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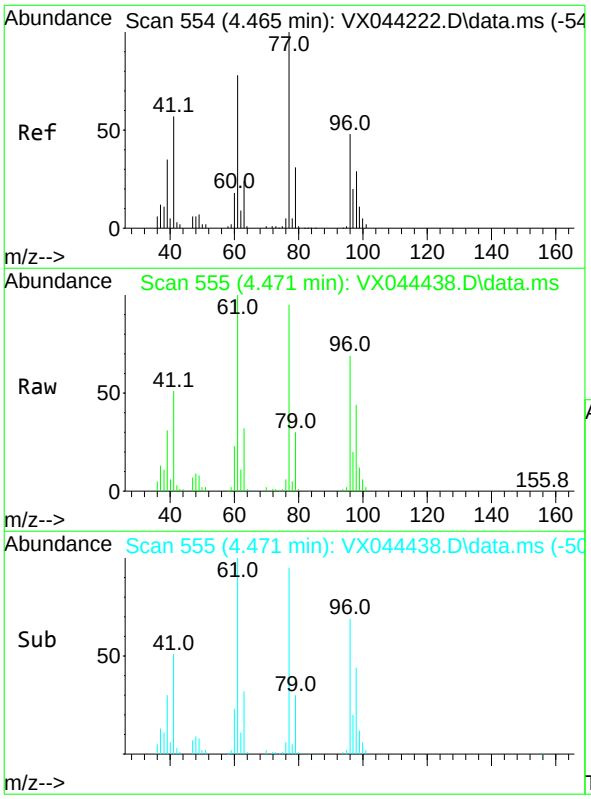
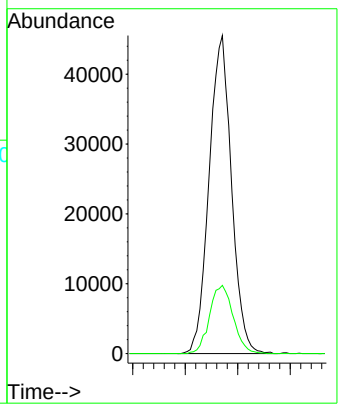
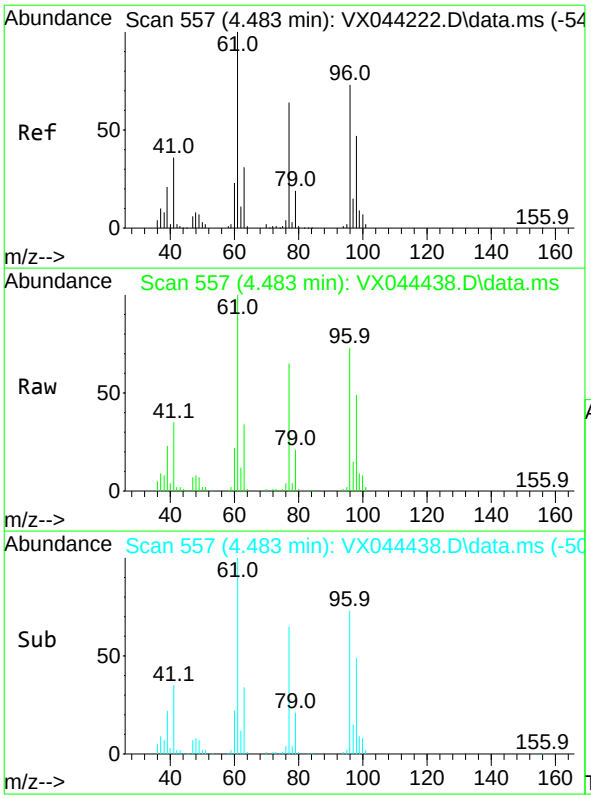


#26
2,2-Dichloropropane
Concen: 51.979 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 77 Resp: 135023

Ion	Ratio	Lower	Upper
77	100		
97	22.6	10.7	32.1

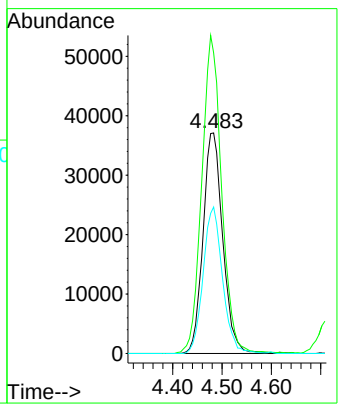




#27
cis-1,2-Dichloroethene
Concen: 49.931 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 96 Resp: 103072

Ion	Ratio	Lower	Upper
96	100		
61	144.7	0.0	299.0
98	65.2	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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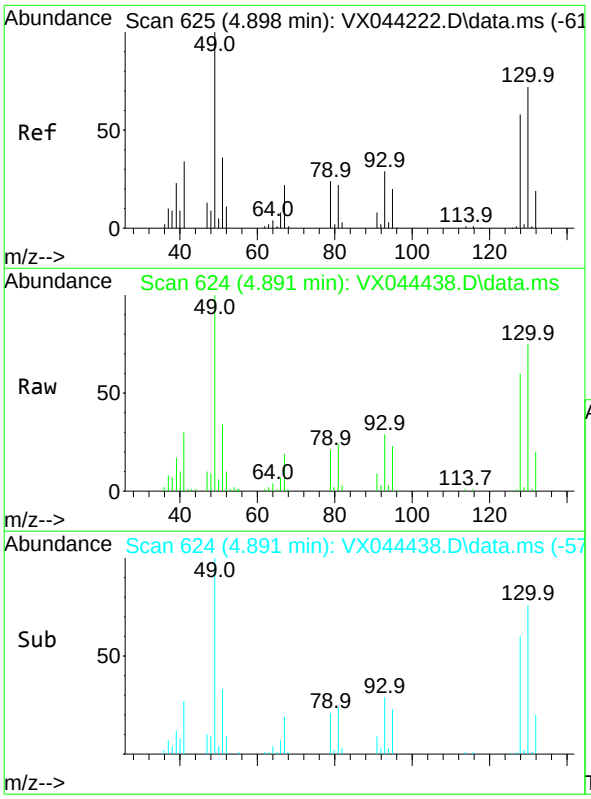
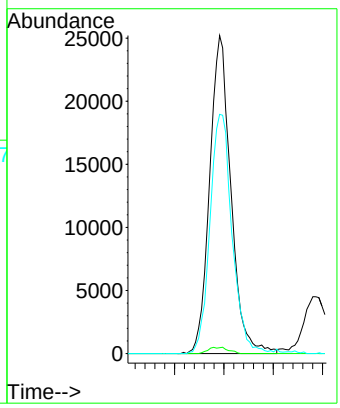
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

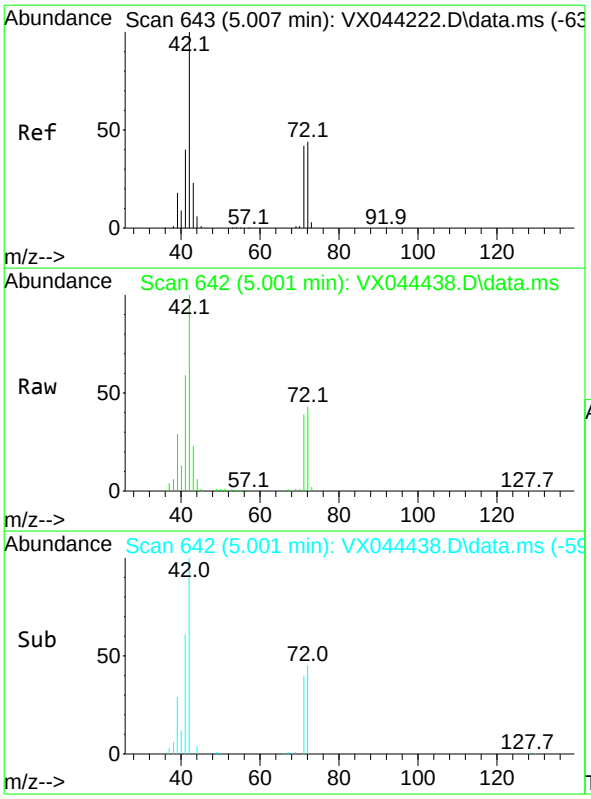


#28
Bromochloromethane
Concen: 48.128 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 49 Resp: 75463

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	78.0	62.1	93.1

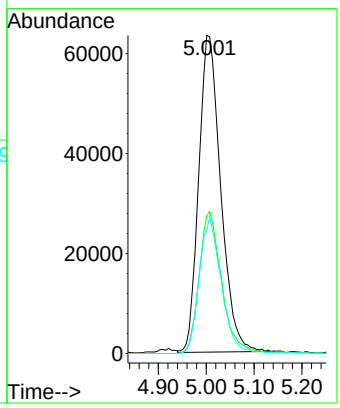




#29
Tetrahydrofuran
Concen: 227.599 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 42 Resp: 202559

Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.0	55.6
71	42.9	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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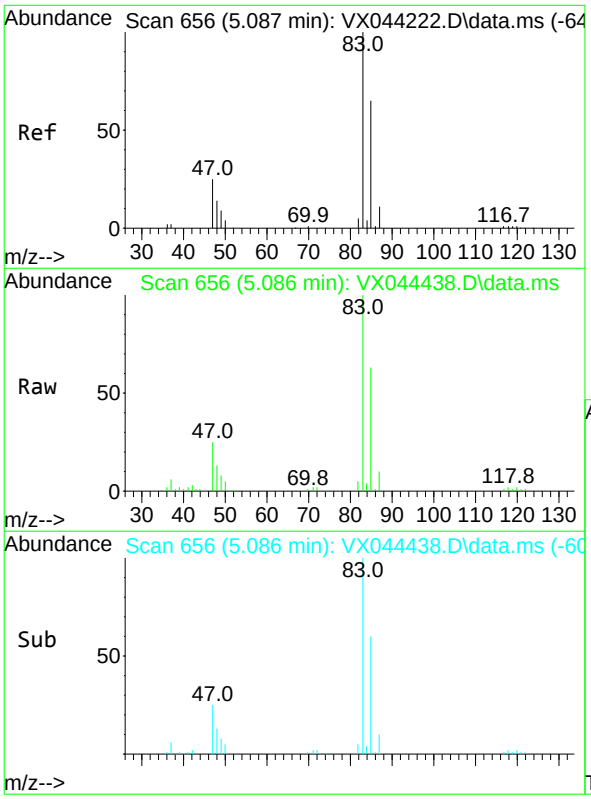
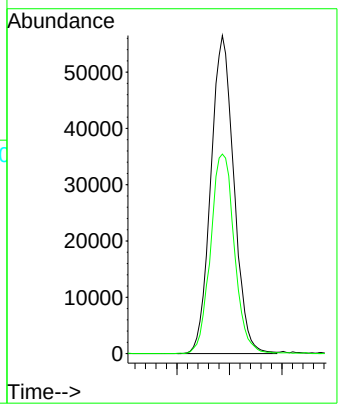
Supervised By :Mahesh Dadoda 12/24/2024

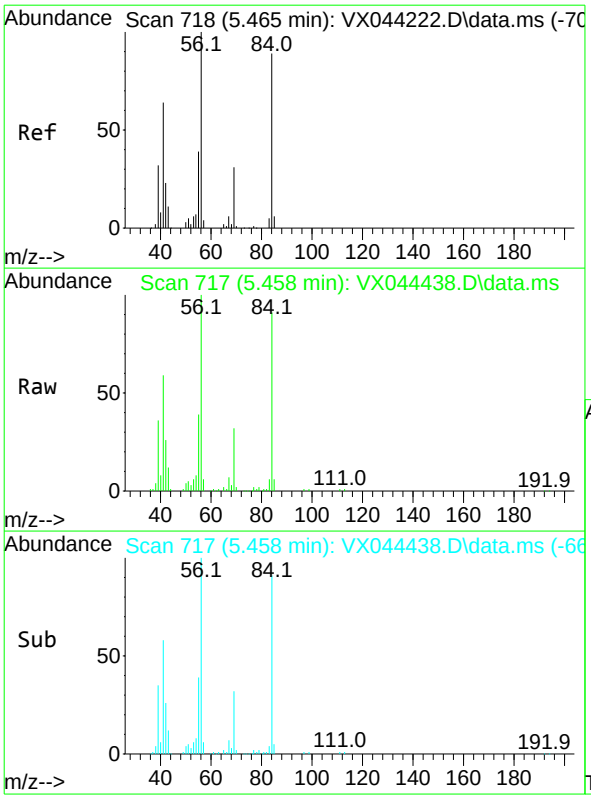


#30
Chloroform
Concen: 48.035 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 172568

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.6	77.4

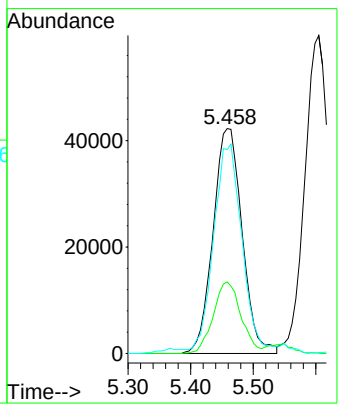




#31
Cyclohexane
Concen: 52.839 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 56 Resp: 136432

Ion	Ratio	Lower	Upper
56	100		
69	31.9	24.7	37.1
84	89.0	71.0	106.6



Instrument :
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ClientSampleId :
VSTDCCC050

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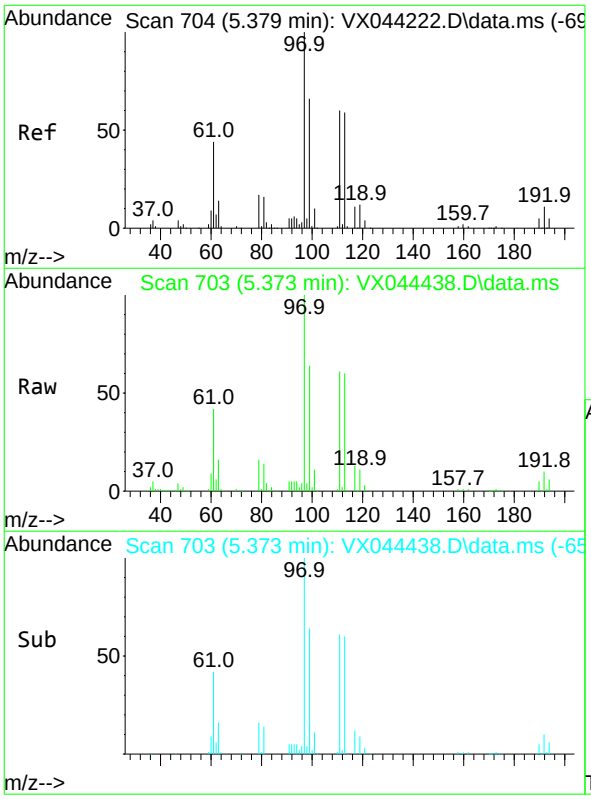
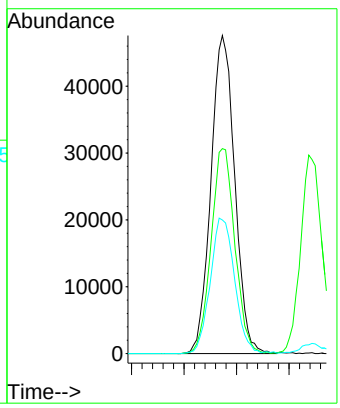
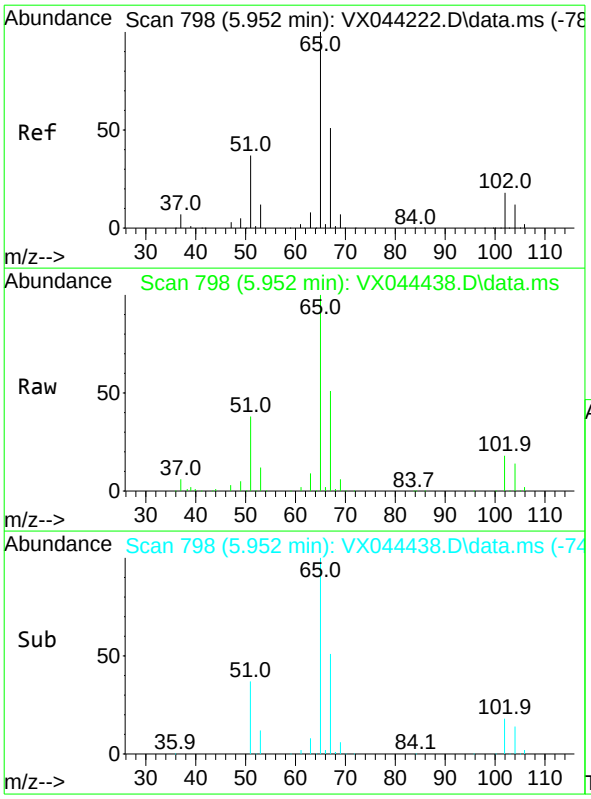


#32
1,1,1-Trichloroethane
Concen: 50.298 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 97 Resp: 149993

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	43.5	35.2	52.8

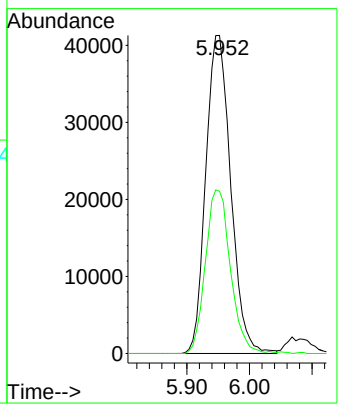




#33
1,2-Dichloroethane-d4
Concen: 47.679 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 65 Resp: 114063

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6



Instrument :
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ClientSampleId :
VSTDCCC050

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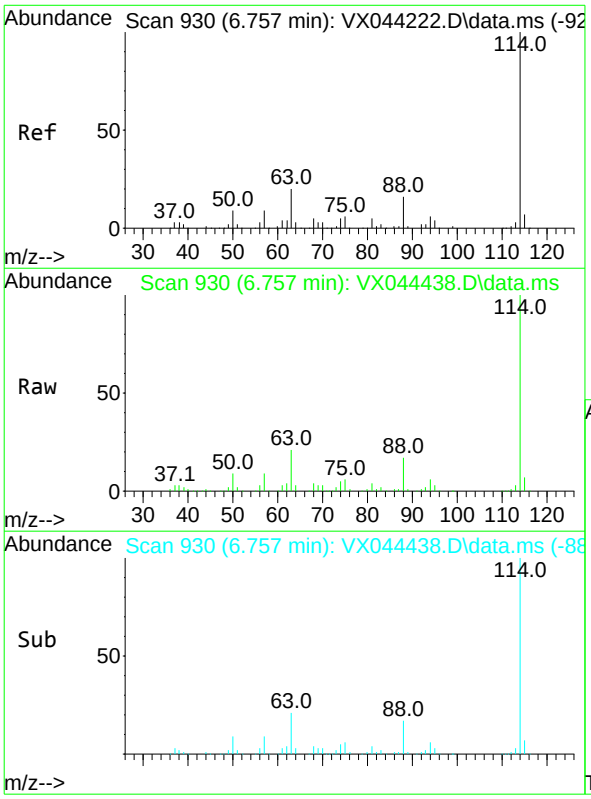
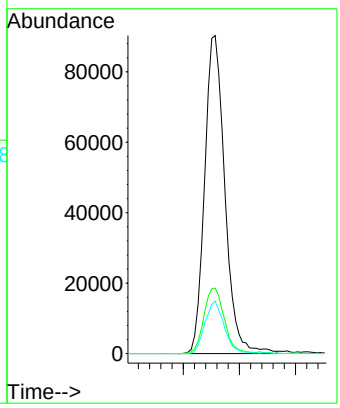
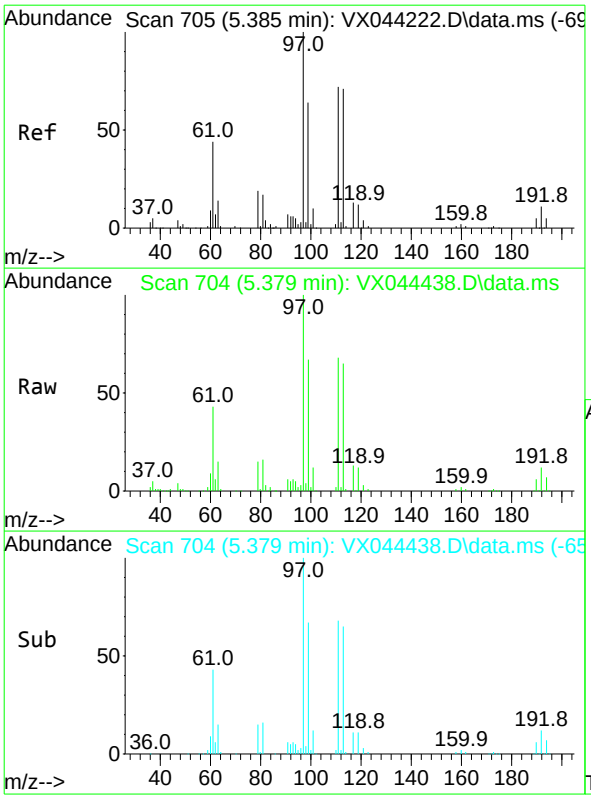


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:114 Resp: 226018

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.6
88	16.5	0.0	31.8

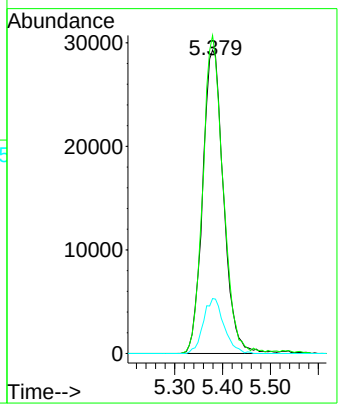




#35
Dibromofluoromethane
Concen: 56.586 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:113 Resp: 88578

Ion	Ratio	Lower	Upper
113	100		
111	101.0	80.4	120.6
192	18.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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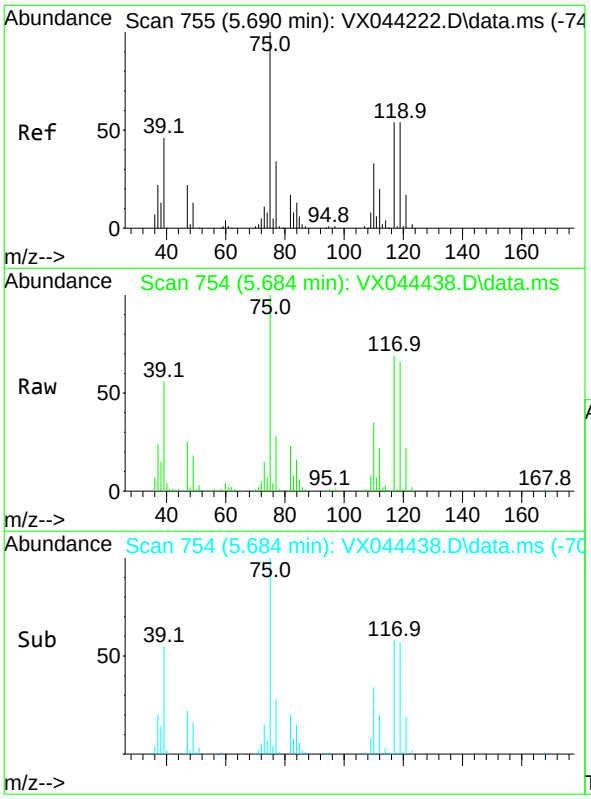
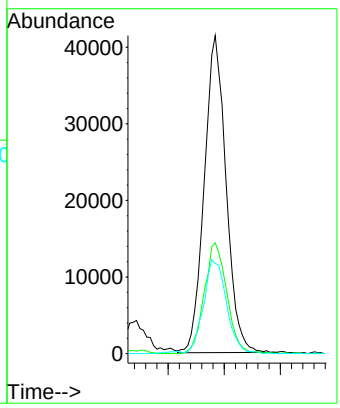
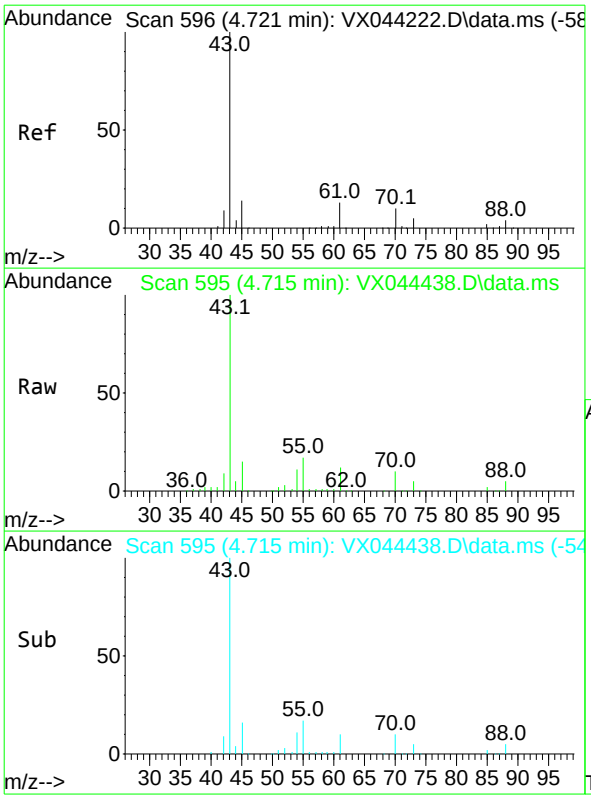


#36
1,1-Dichloropropene
Concen: 55.205 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 111706

Ion	Ratio	Lower	Upper
75	100		
110	36.3	17.3	51.7
77	31.1	25.4	38.0

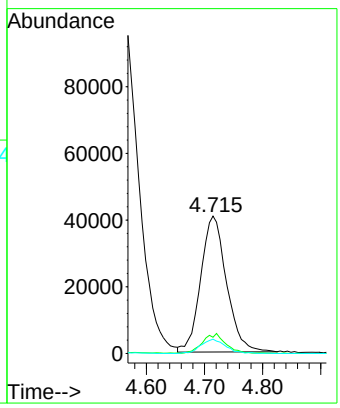




#37
Ethyl Acetate
Concen: 50.217 ug/l
RT: 4.715 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 125607

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.8	14.8
70	10.0	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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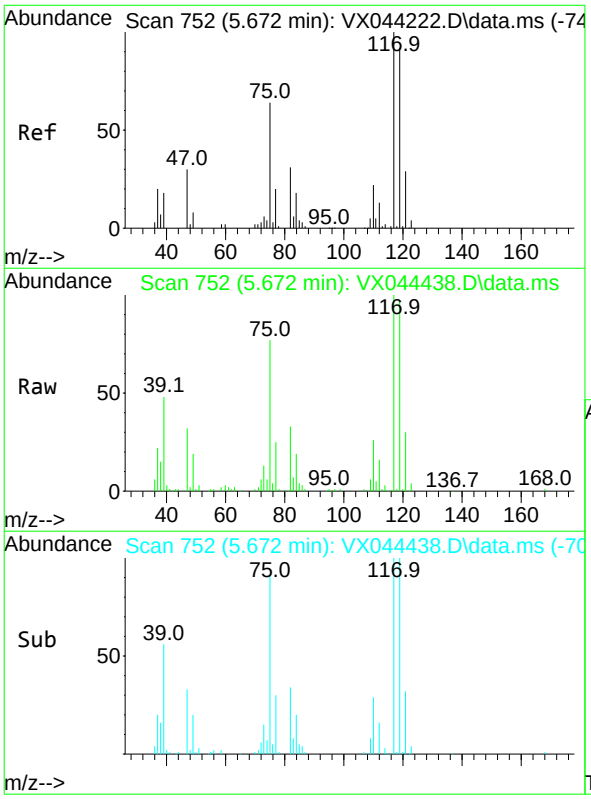
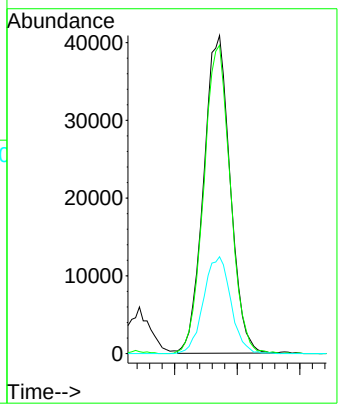
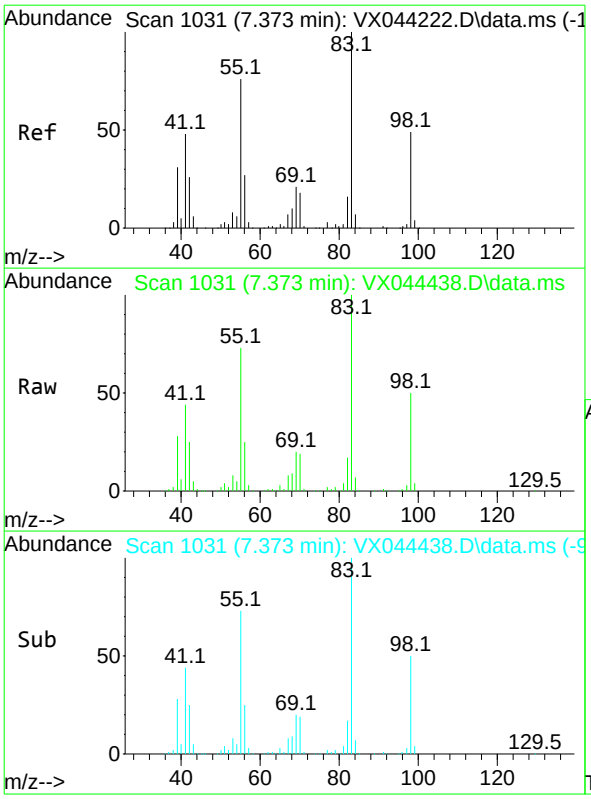


#38
Carbon Tetrachloride
Concen: 55.304 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 120478

Ion	Ratio	Lower	Upper
117	100		
119	96.8	74.2	111.4
121	30.5	23.0	34.6

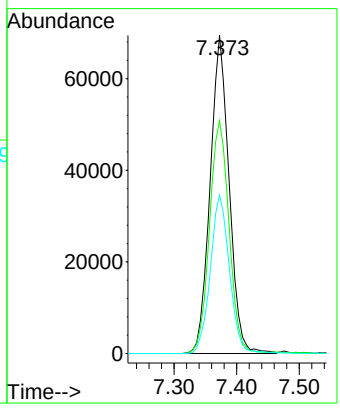




#39
Methylcyclohexane
Concen: 60.512 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 146379

Ion	Ratio	Lower	Upper
83	100		
55	73.1	60.7	91.1
98	49.8	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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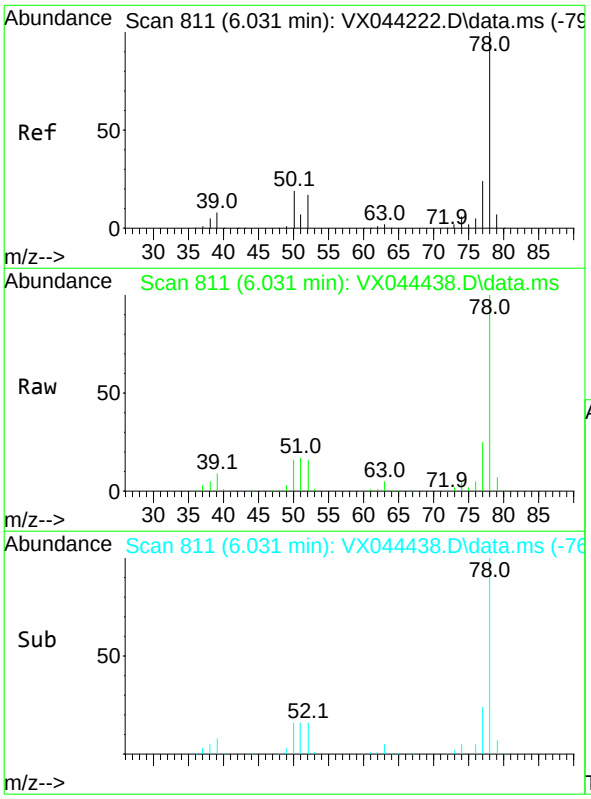
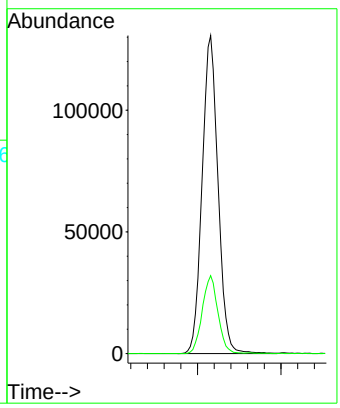
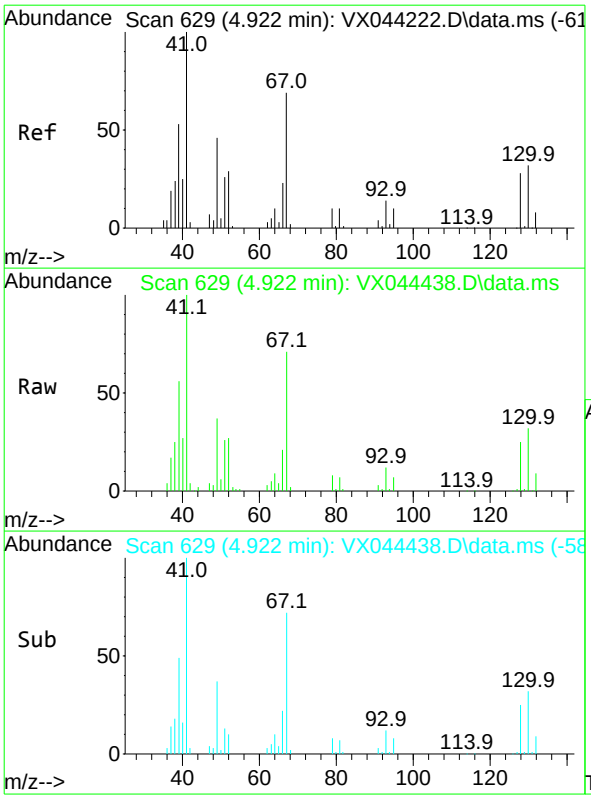


#40
Benzene
Concen: 56.259 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 78 Resp: 345635

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.3	28.9

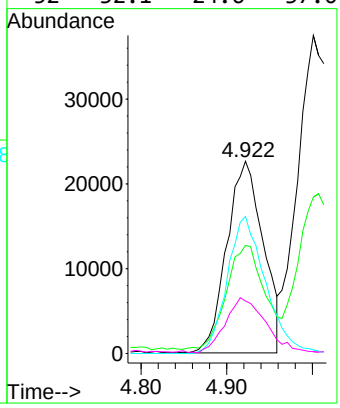




#41
Methacrylonitrile
Concen: 50.310 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 66821

Ion	Ratio	Lower	Upper
41	100		
39	58.0	44.2	66.4
67	74.9	57.2	85.8
52	32.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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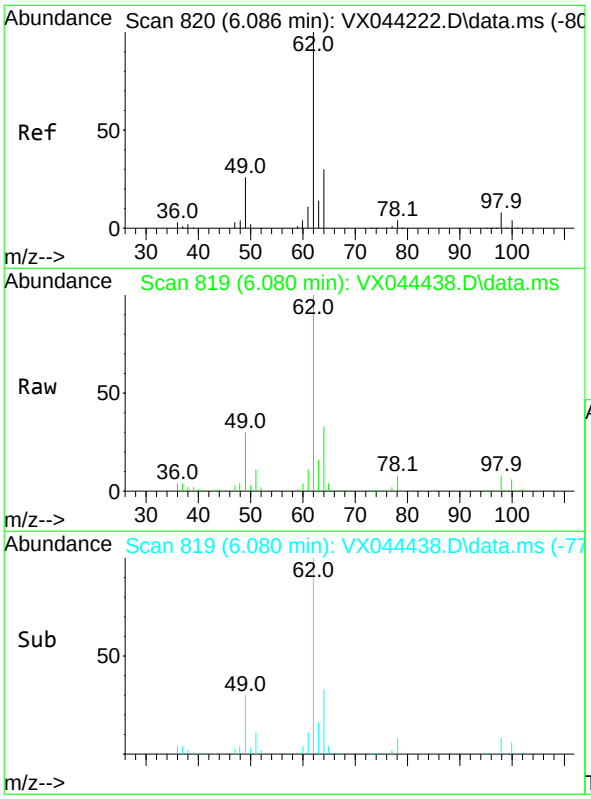
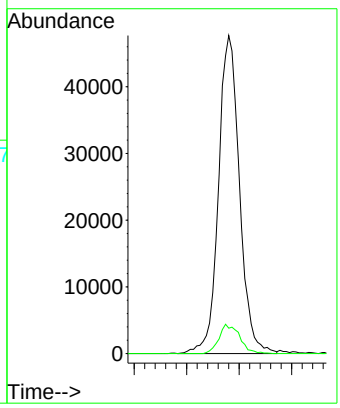
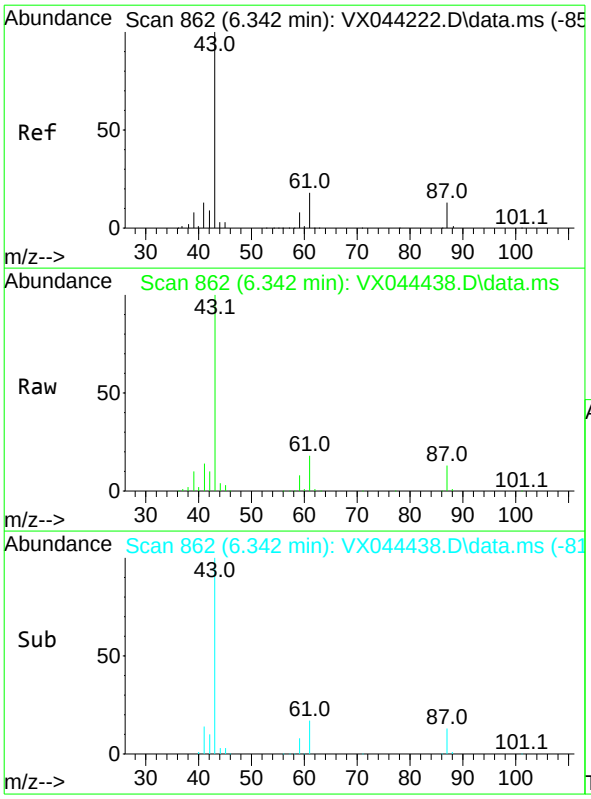


#42
1,2-Dichloroethane
Concen: 52.362 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 132516

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8

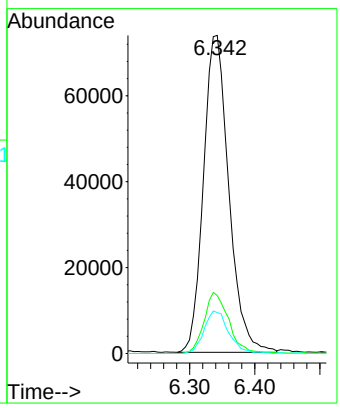




#43
Isopropyl Acetate
Concen: 51.076 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 199677

Ion	Ratio	Lower	Upper
43	100		
61	18.8	14.2	21.2
87	13.1	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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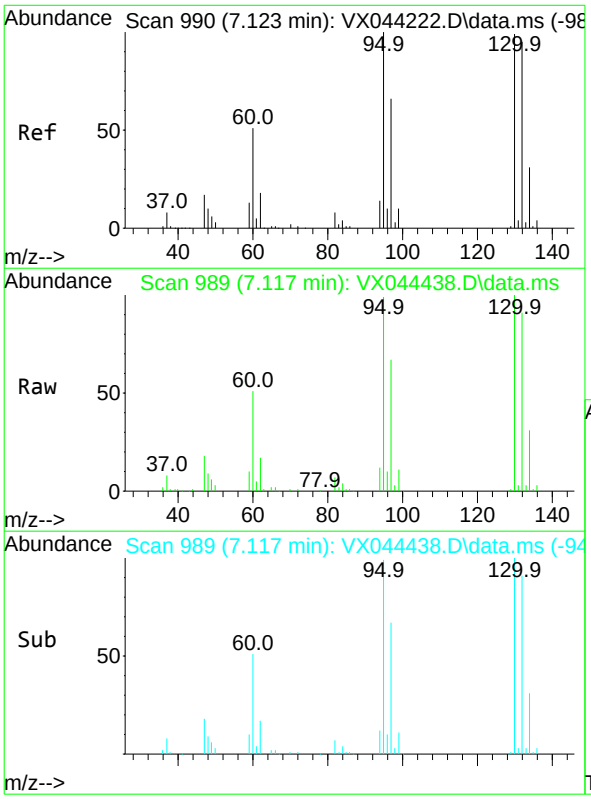
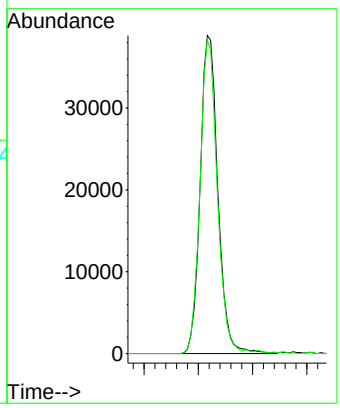
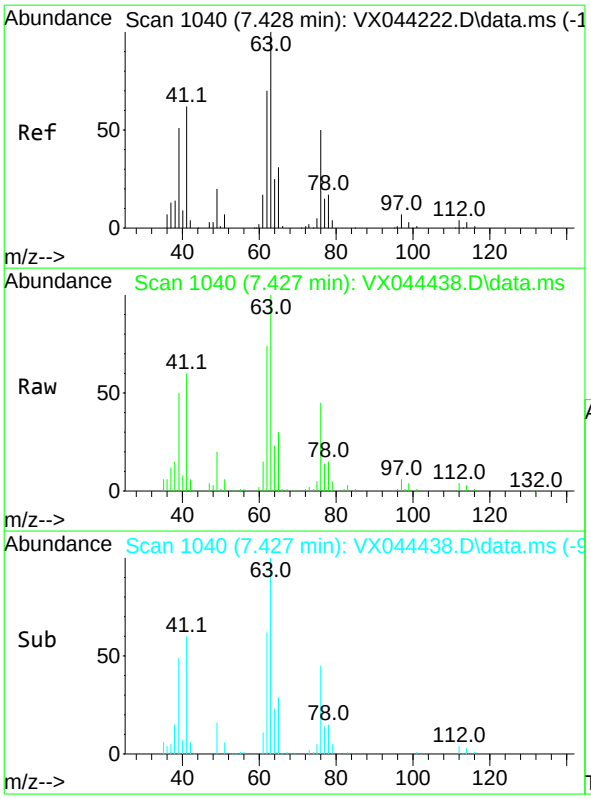


#44
Trichloroethene
Concen: 57.285 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:130 Resp: 87763

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	201.4

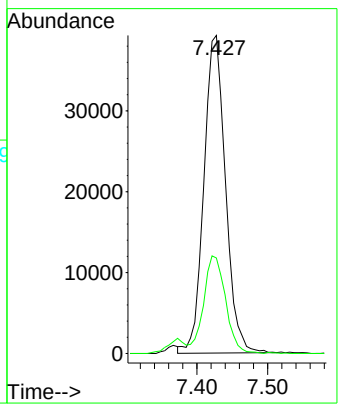




#45
1,2-Dichloropropane
Concen: 53.131 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 83393

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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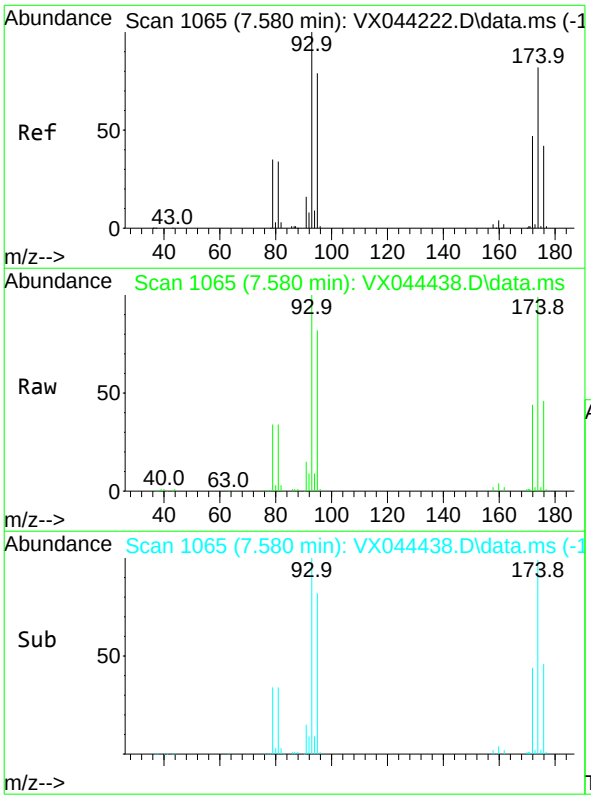
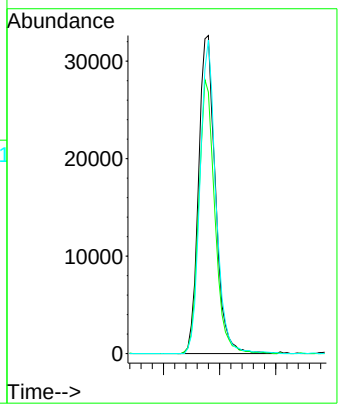
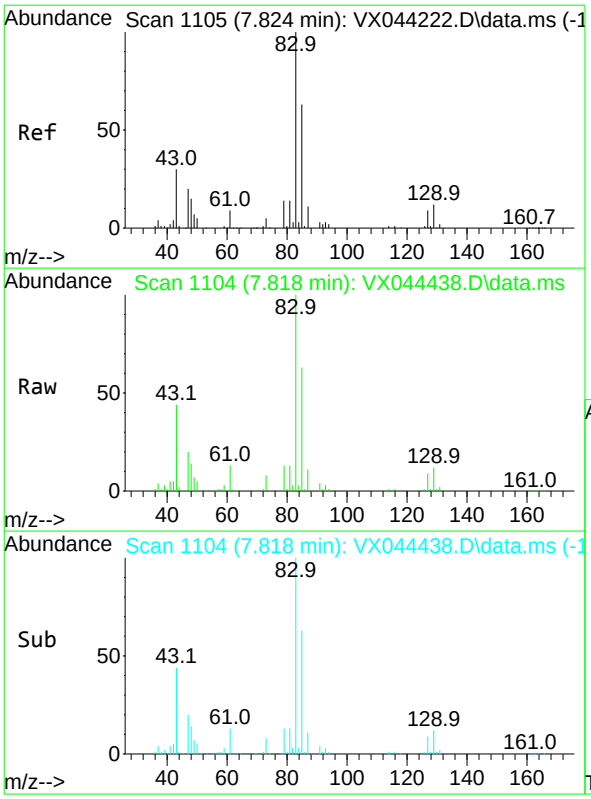


#46
Dibromomethane
Concen: 55.676 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 93 Resp: 67796

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.4	98.2
174	93.2	67.9	101.9

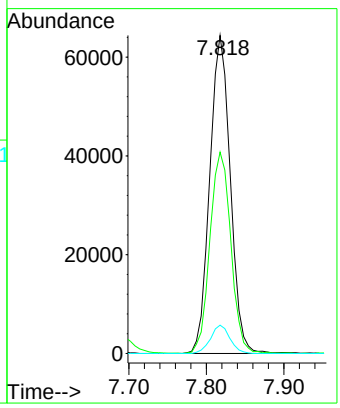




#47
Bromodichloromethane
Concen: 56.402 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 118614

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.9	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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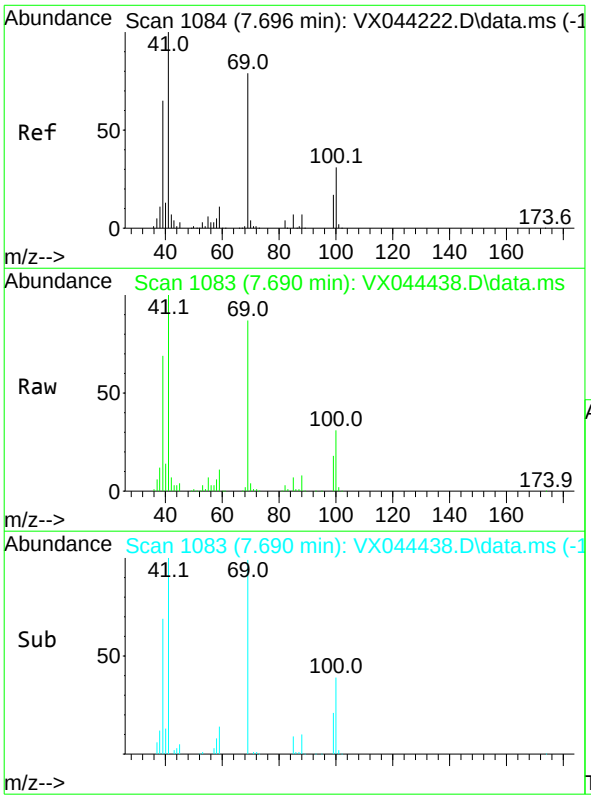
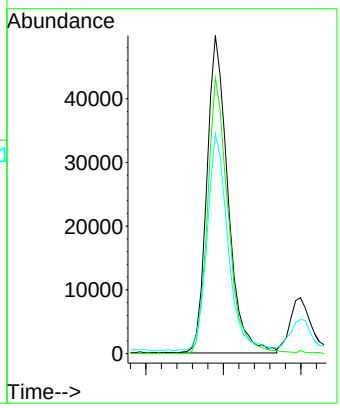
Supervised By :Mahesh Dadoda 12/24/2024

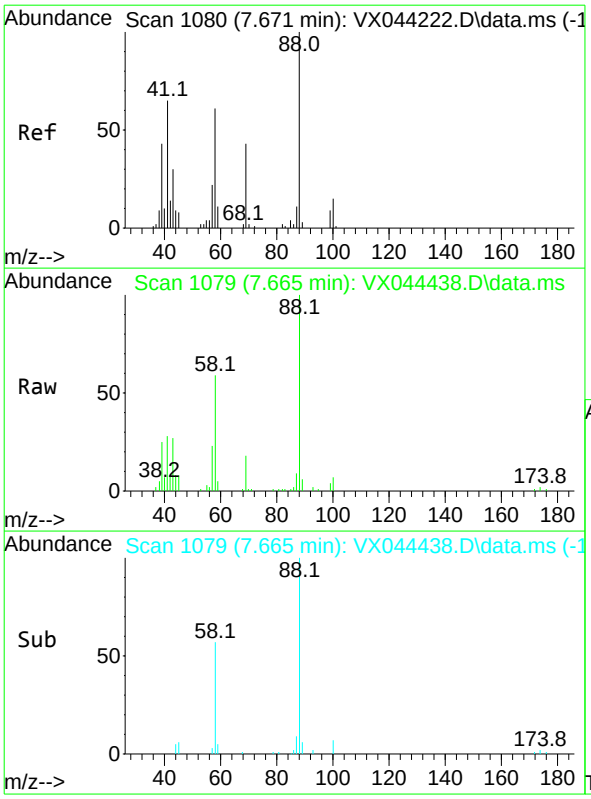


#48
Methyl methacrylate
Concen: 49.554 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 94040

Ion	Ratio	Lower	Upper
41	100		
69	85.0	62.4	93.6
39	67.5	53.3	79.9

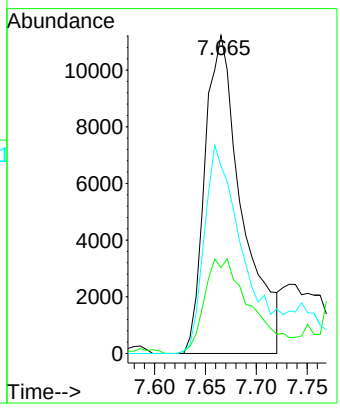




#49
1,4-Dioxane
Concen: 906.120 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 88 Resp: 28510

Ion	Ratio	Lower	Upper
88	100		
43	37.0	27.1	40.7
58	69.1	41.0	61.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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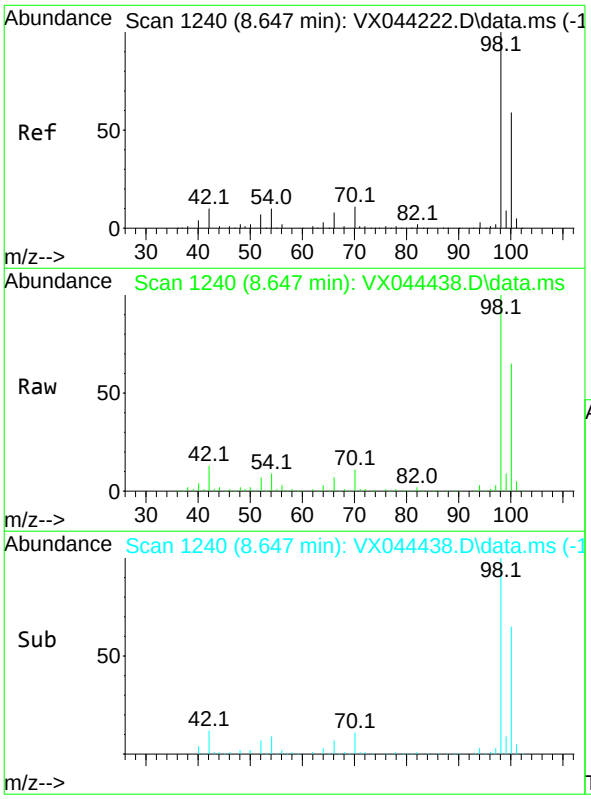
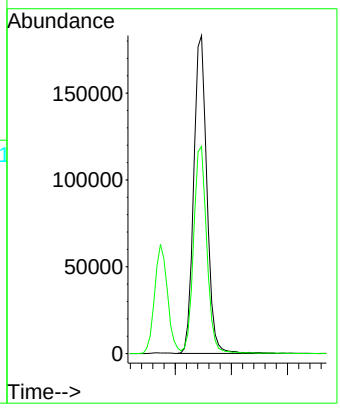
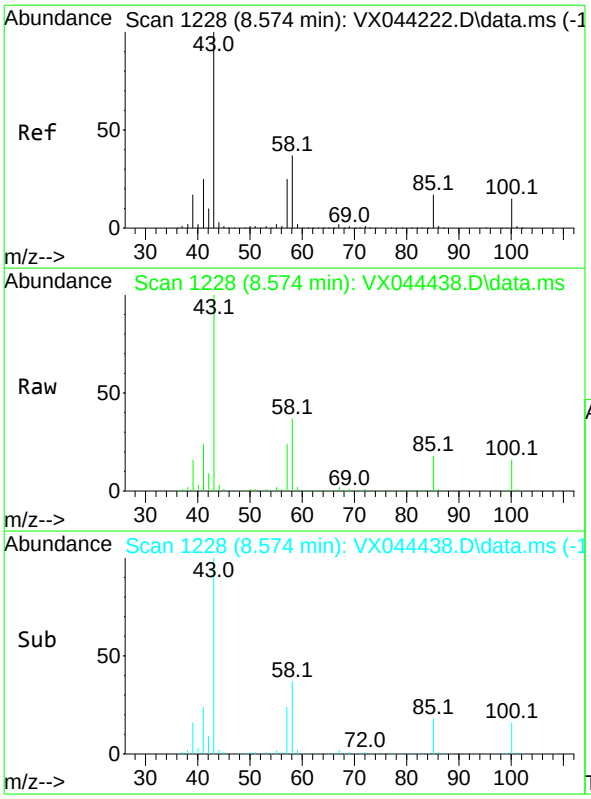


#50
Toluene-d8
Concen: 56.385 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 98 Resp: 297779

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3

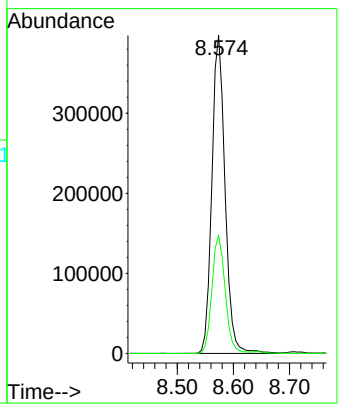




#51
4-Methyl-2-Pentanone
Concen: 257.494 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 647258

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0



Instrument :
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ClientSampleId :
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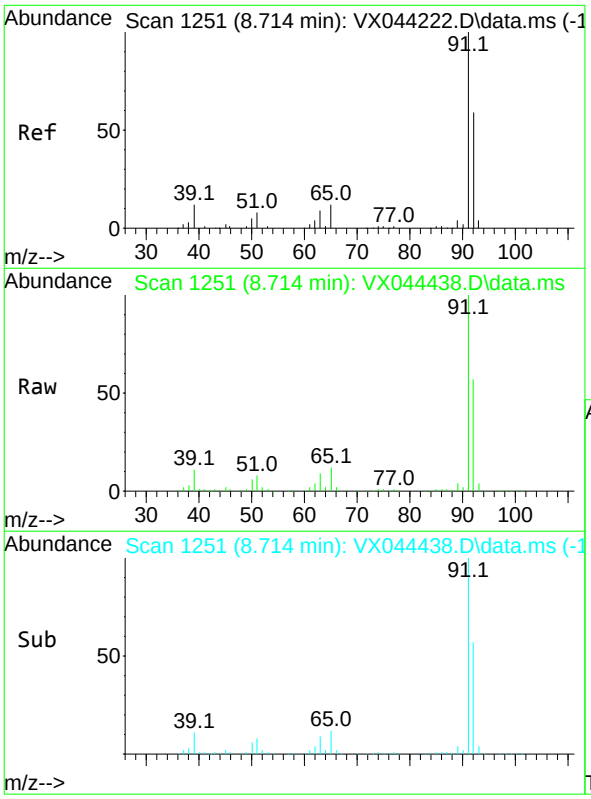
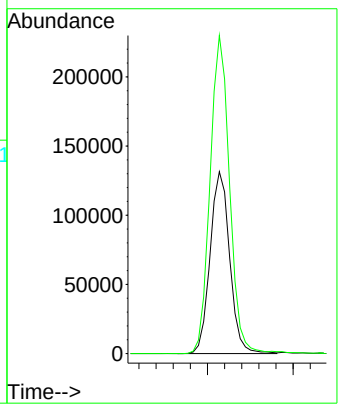
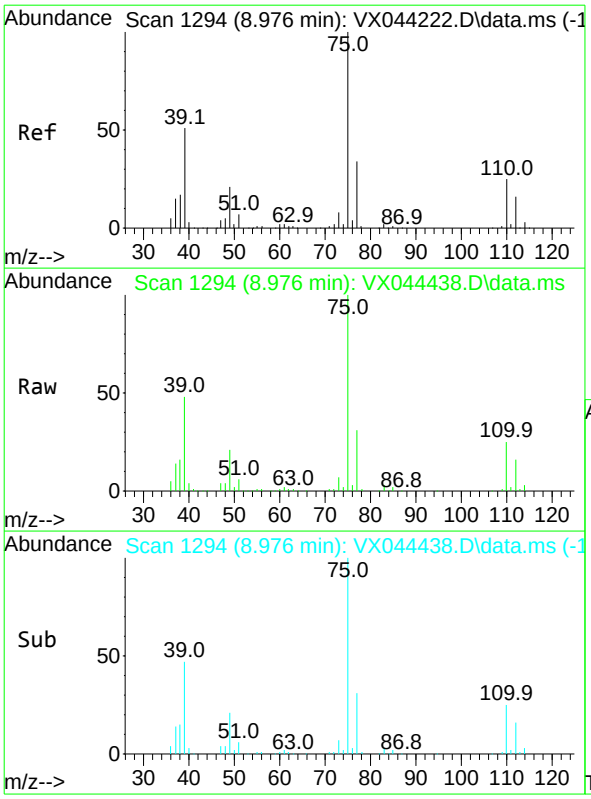


#52
Toluene
Concen: 54.120 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 92 Resp: 208798

Ion	Ratio	Lower	Upper
92	100		
91	174.6	137.0	205.6

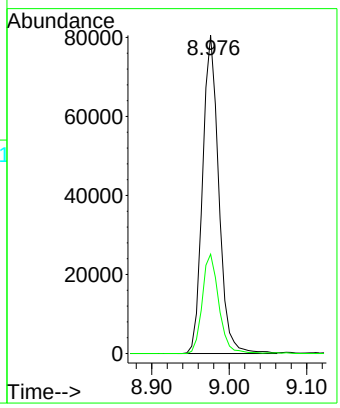




#53
t-1,3-Dichloropropene
Concen: 51.640 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 116841

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8



Instrument :
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ClientSampleId :
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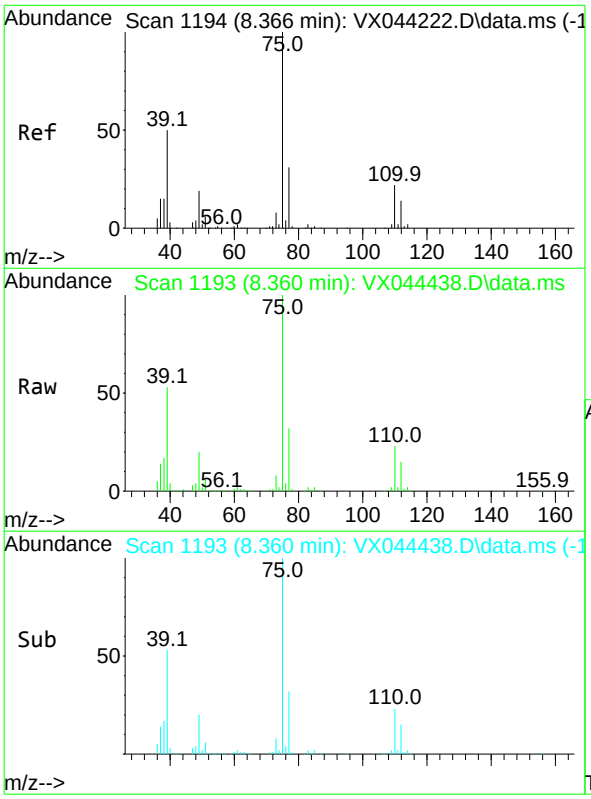
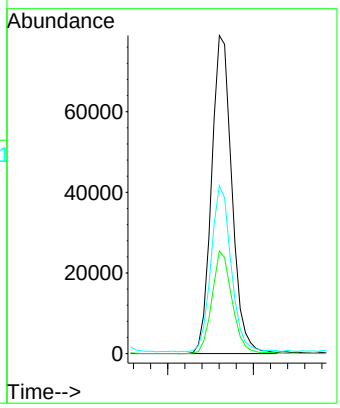
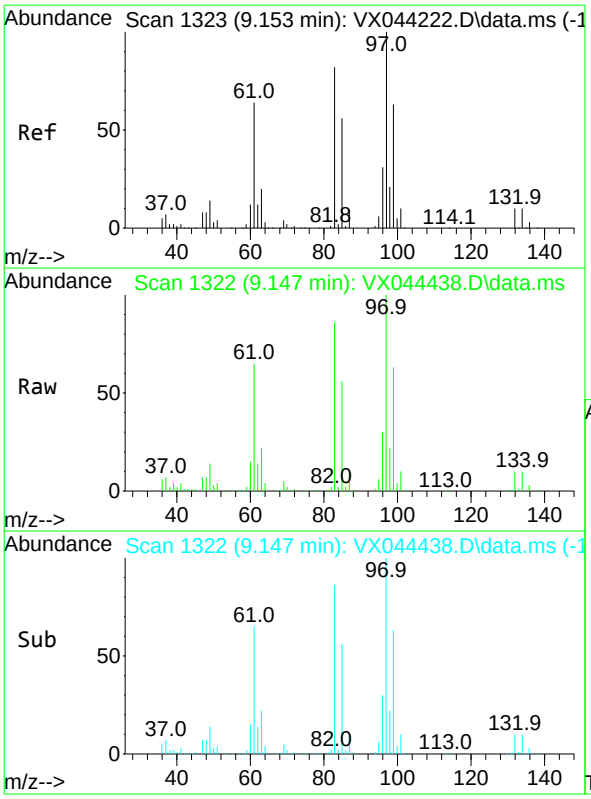


#54
cis-1,3-Dichloropropene
Concen: 56.913 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 130320

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	52.3	40.3	60.5

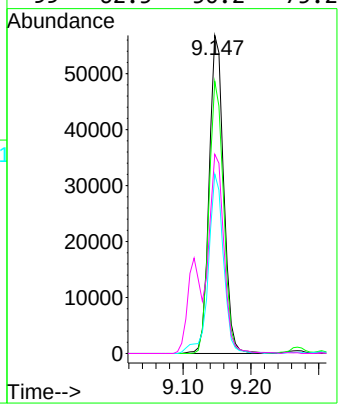




#55
1,1,2-Trichloroethane
Concen: 55.124 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 97 Resp: 84487

Ion	Ratio	Lower	Upper
97	100		
83	85.6	65.3	97.9
85	56.4	44.6	67.0
99	62.5	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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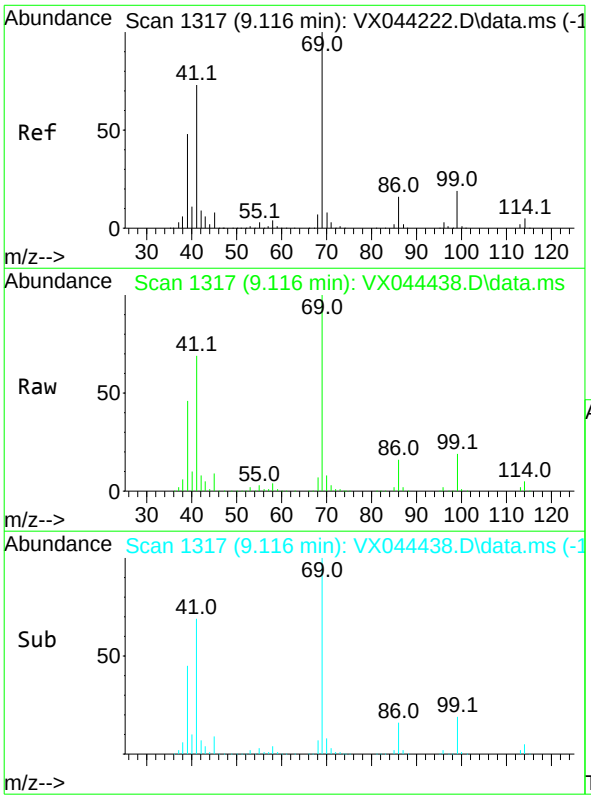
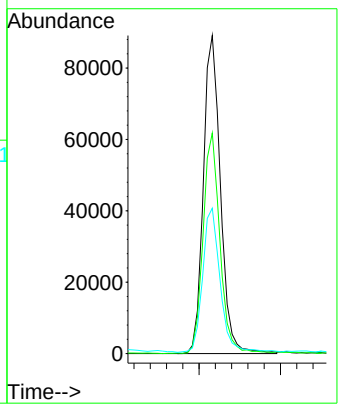
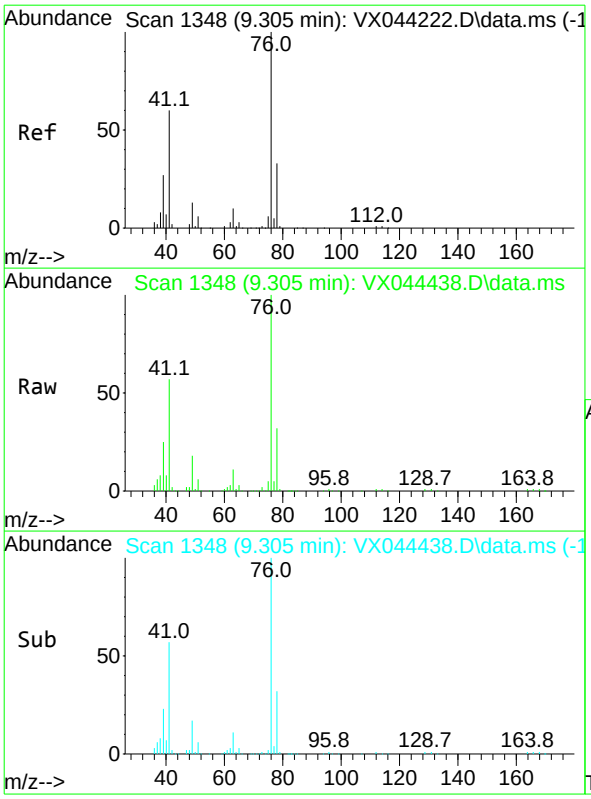


#56
Ethyl methacrylate
Concen: 53.800 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 69 Resp: 130175

Ion	Ratio	Lower	Upper
69	100		
41	68.3	56.6	85.0
39	46.2	37.4	56.0

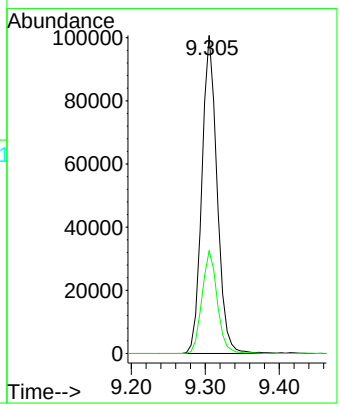




#57
1,3-Dichloropropane
Concen: 53.824 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 76 Resp: 143590

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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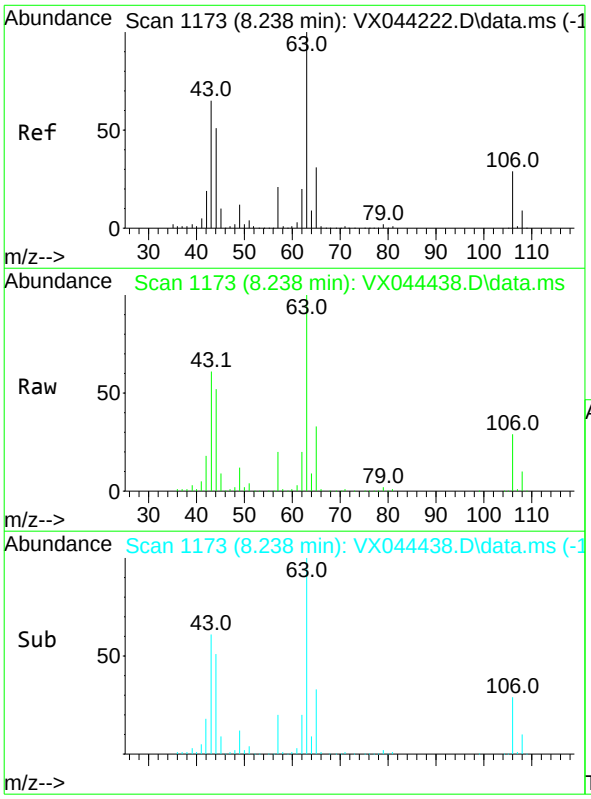
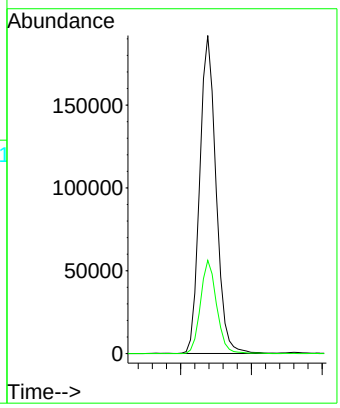
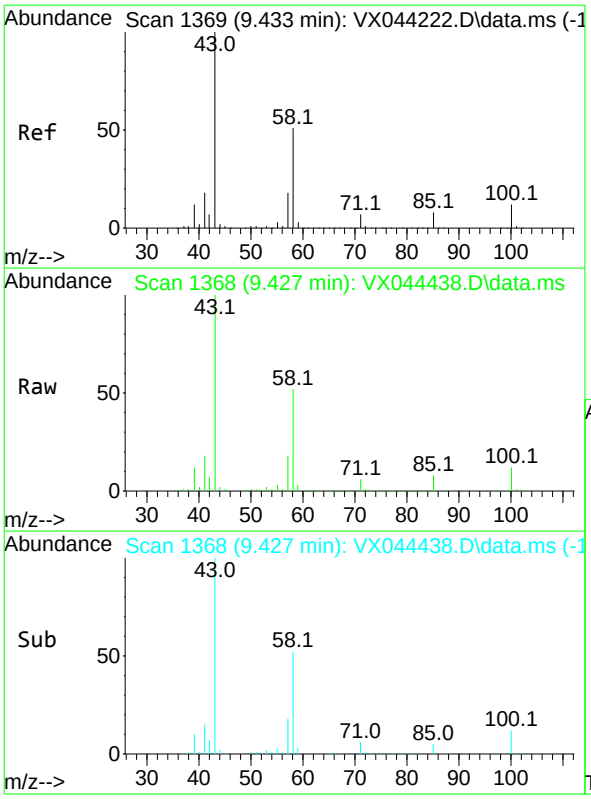


#58
2-Chloroethyl Vinyl ether
Concen: 252.070 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 307620

Ion	Ratio	Lower	Upper
63	100		
106	29.0	22.8	34.2

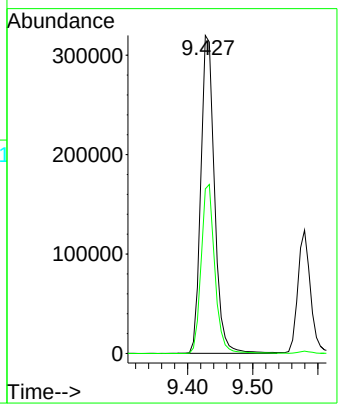




#59
2-Hexanone
Concen: 256.860 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 467347

Ion	Ratio	Lower	Upper
43	100		
58	53.0	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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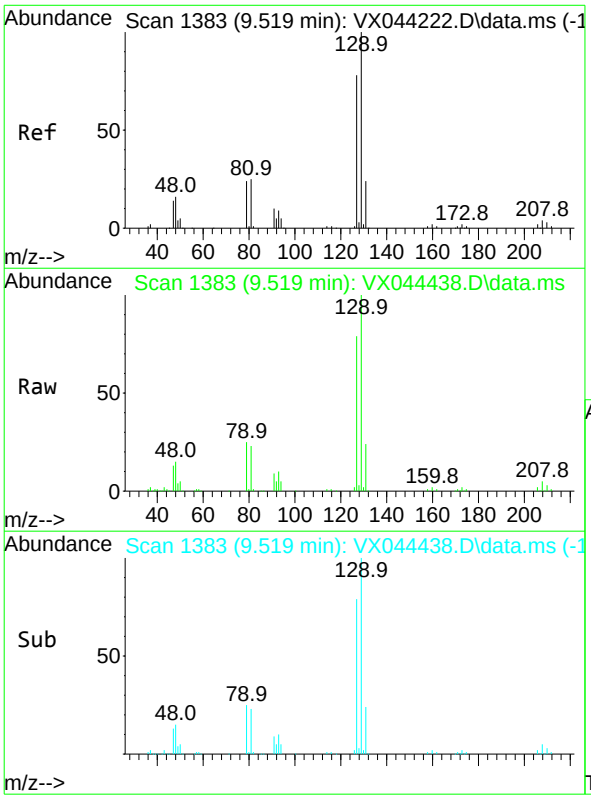
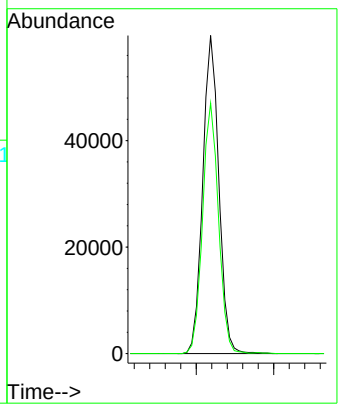
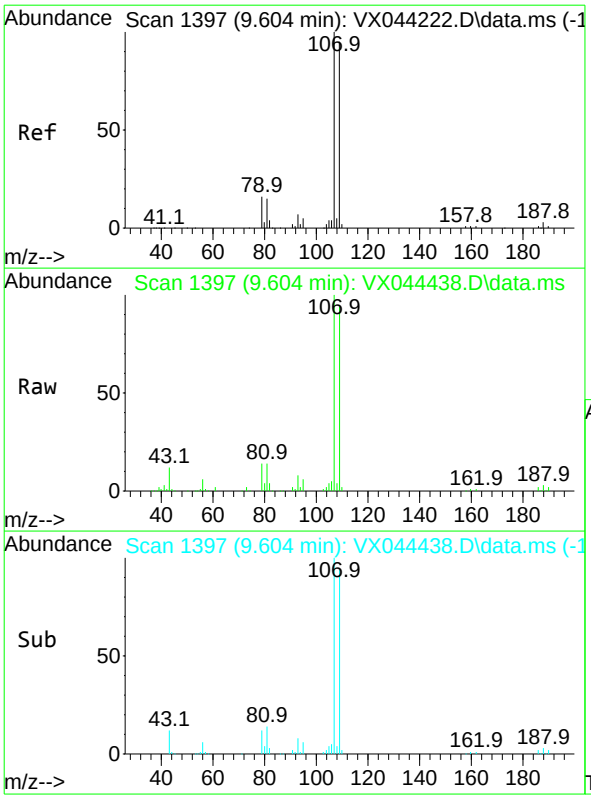


#60
Dibromochloromethane
Concen: 52.901 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:129 Resp: 86207

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.3

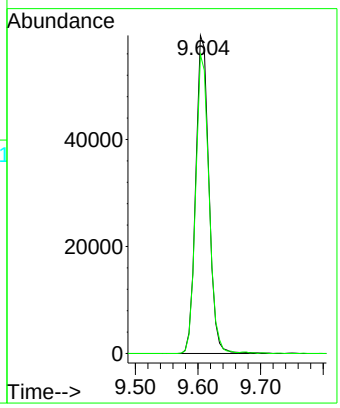




#61
1,2-Dibromoethane
Concen: 55.721 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:107 Resp: 86930

Ion	Ratio	Lower	Upper
107	100		
109	95.3	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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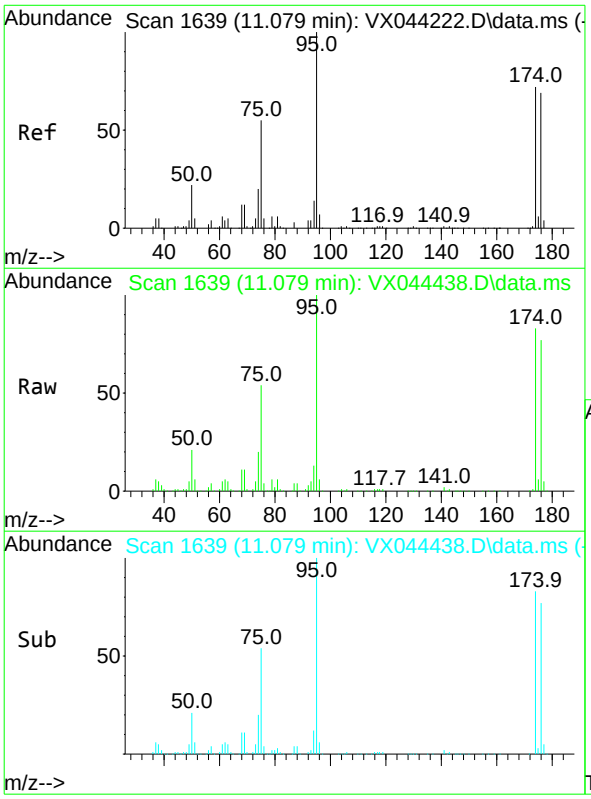
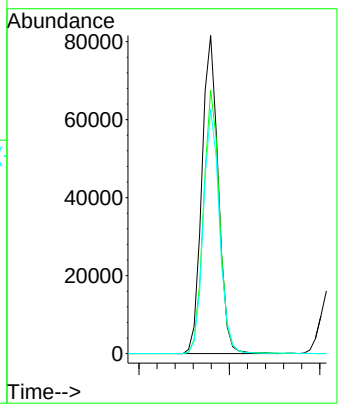
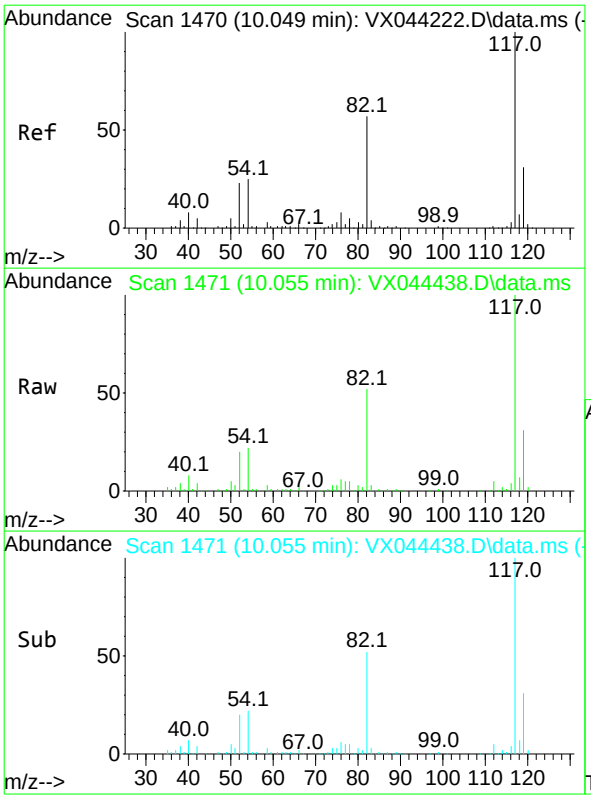


#62
4-Bromofluorobenzene
Concen: 55.640 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 95 Resp: 102676

Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	145.8
176	75.6	0.0	137.8

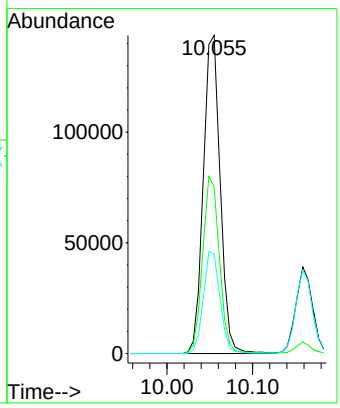




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 197543

Ion	Ratio	Lower	Upper
117	100		
82	52.5	45.8	68.8
119	31.3	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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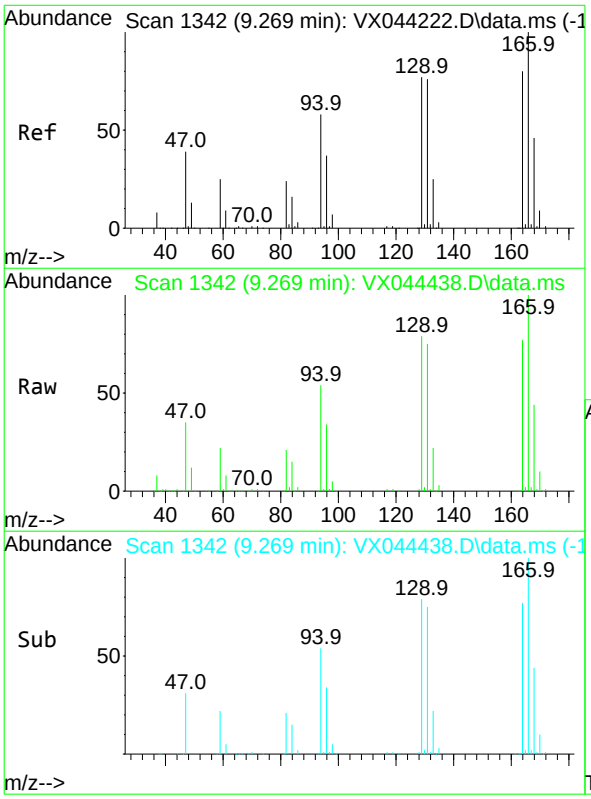
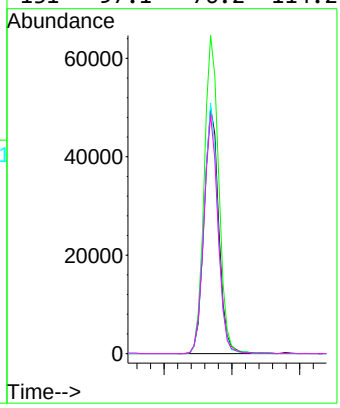
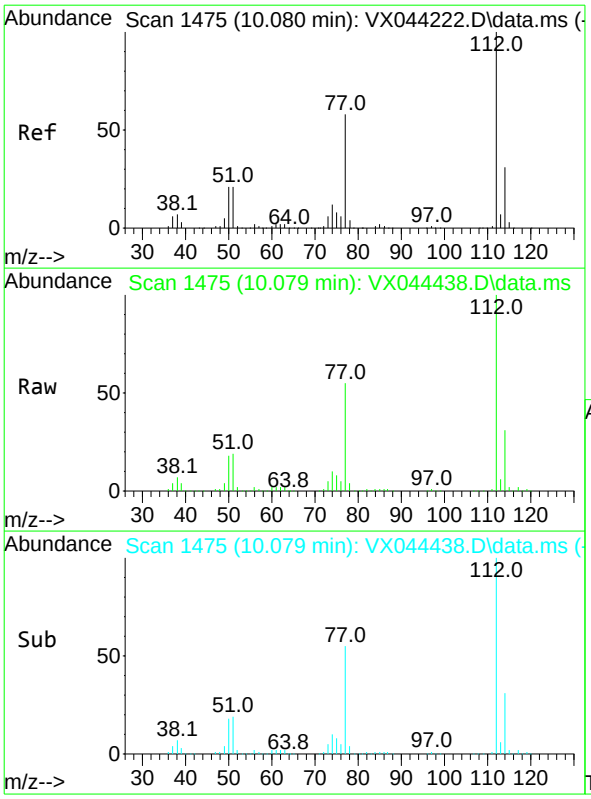


#64
Tetrachloroethene
Concen: 57.001 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:164 Resp: 74735

Ion	Ratio	Lower	Upper
164	100		
166	129.3	100.4	150.6
129	101.8	77.2	115.8
131	97.1	76.2	114.2

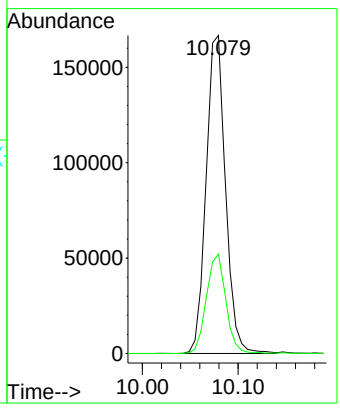




#65
Chlorobenzene
Concen: 55.402 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:112 Resp: 234513

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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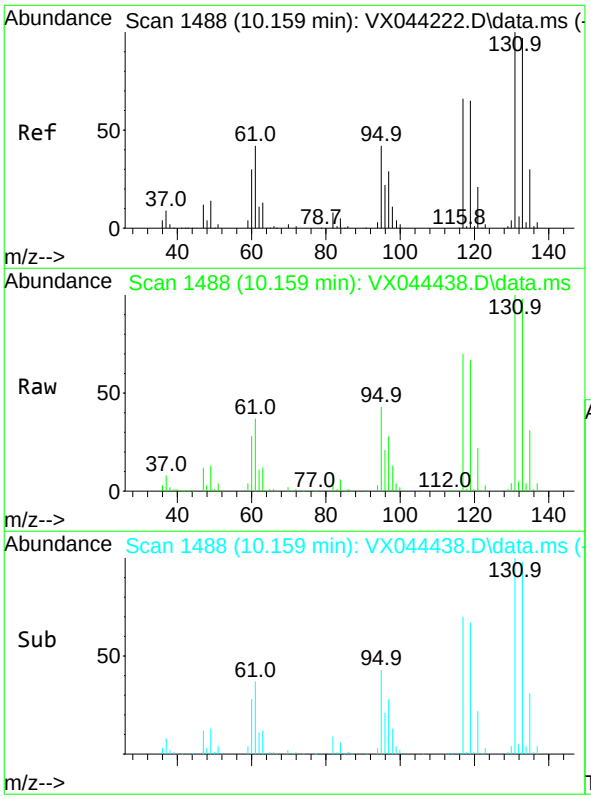
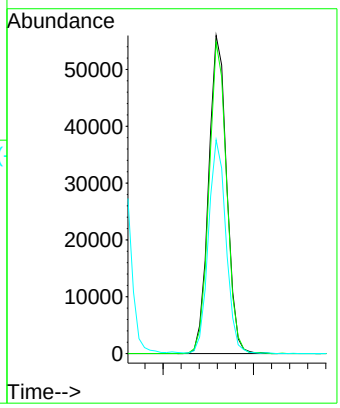
Supervised By :Mahesh Dadoda 12/24/2024

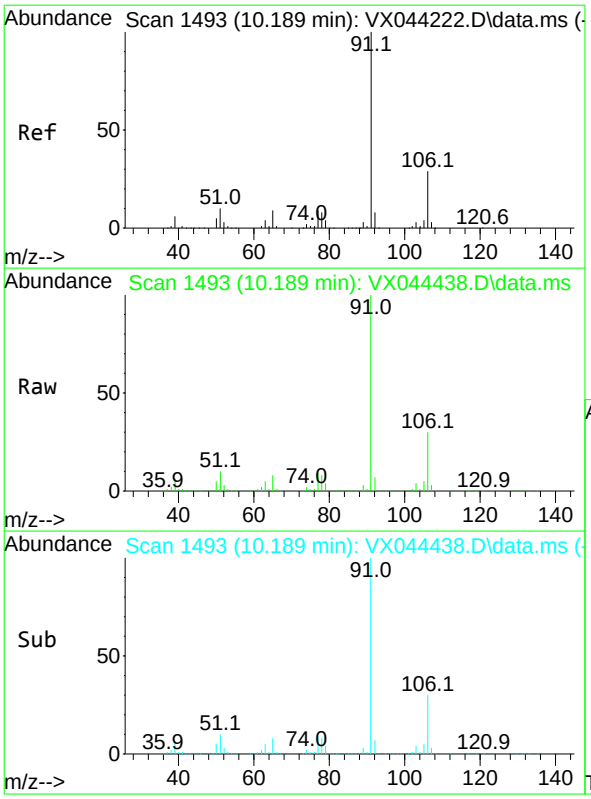


#66
1,1,1,2-Tetrachloroethane
Concen: 56.959 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:131 Resp: 77487

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	141.8
119	65.6	31.6	95.0

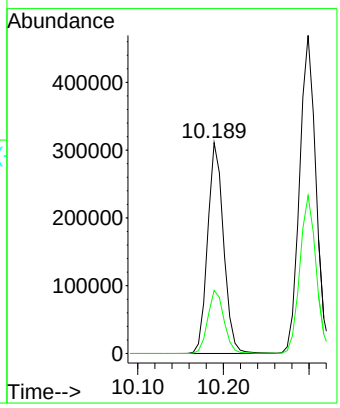




#67
Ethyl Benzene
Concen: 54.936 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 401792

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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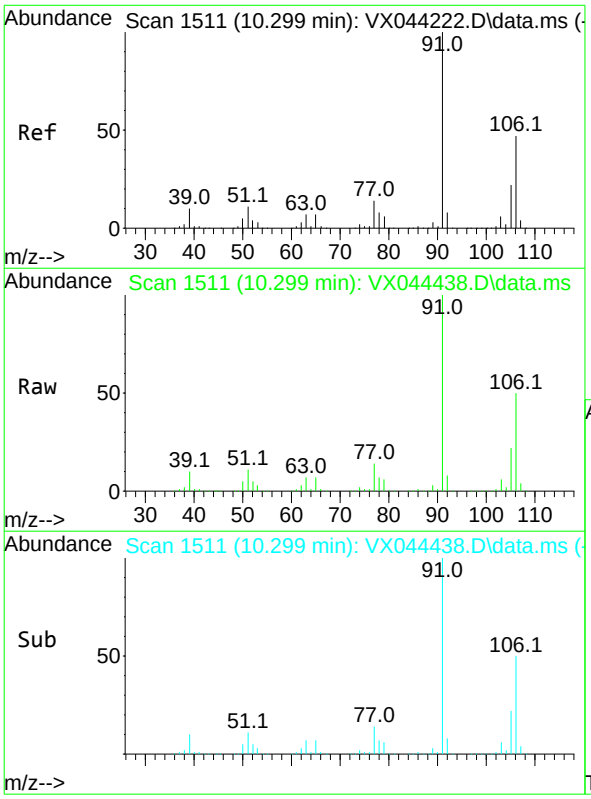
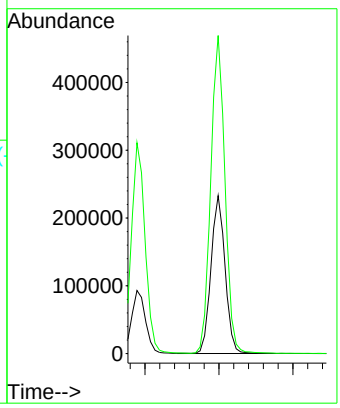
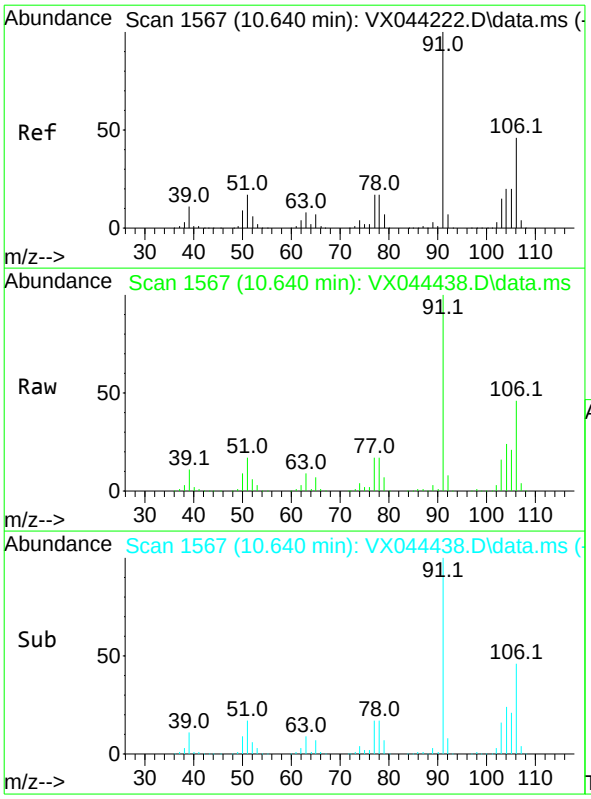


#68
m/p-Xylenes
Concen: 114.771 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:106 Resp: 308013

Ion	Ratio	Lower	Upper
106	100		
91	202.5	170.2	255.2

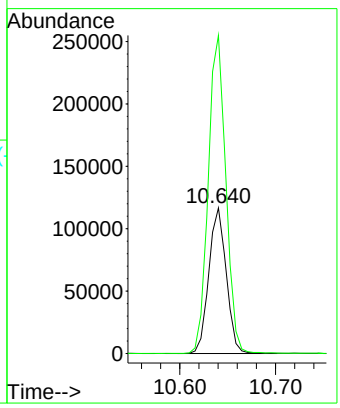




#69
o-Xylene
Concen: 54.389 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:106 Resp: 147688

Ion	Ratio	Lower	Upper
106	100		
91	220.8	112.3	337.0



Instrument :
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ClientSampleId :
VSTDCCC050

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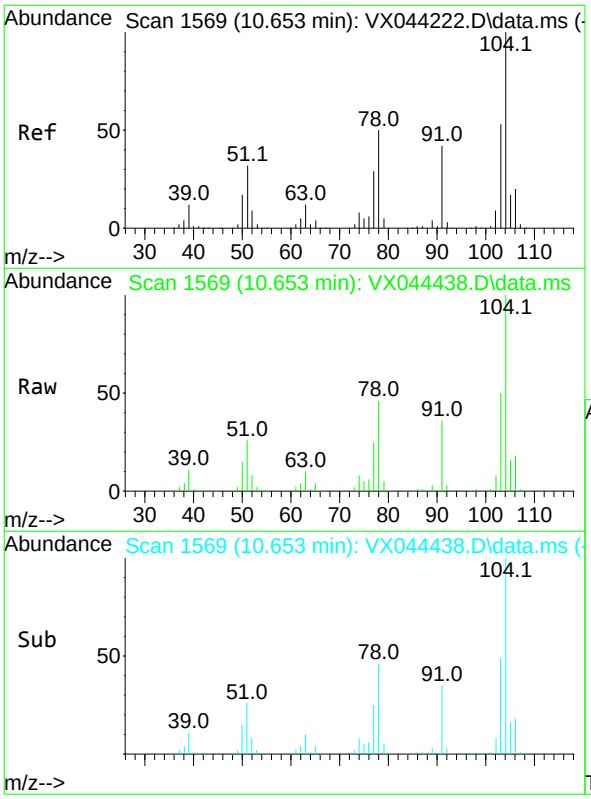
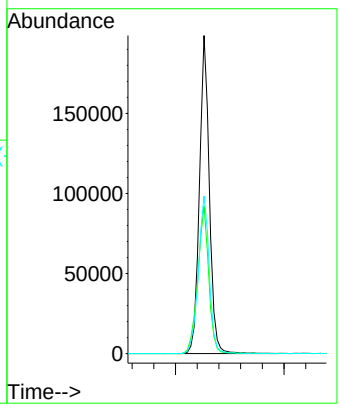
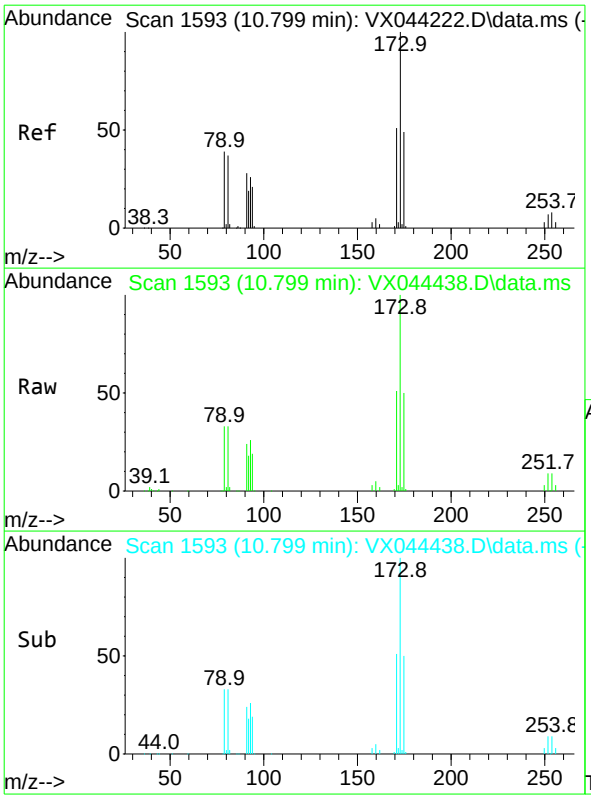


#70
Styrene
Concen: 57.862 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:104 Resp: 251875

Ion	Ratio	Lower	Upper
104	100		
78	51.5	44.6	67.0
103	54.8	45.4	68.0

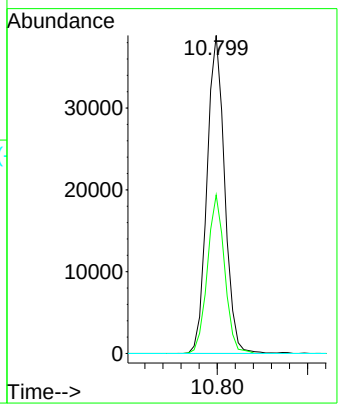




#71
Bromoform
Concen: 54.671 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:173 Resp: 52602

Ion	Ratio	Lower	Upper
173	100		
175	48.7	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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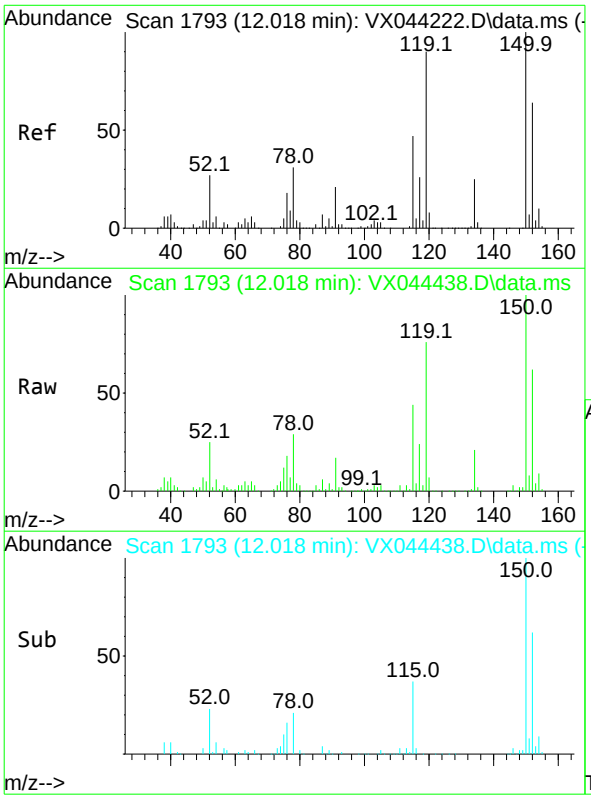
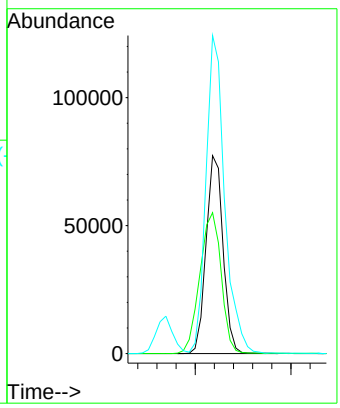
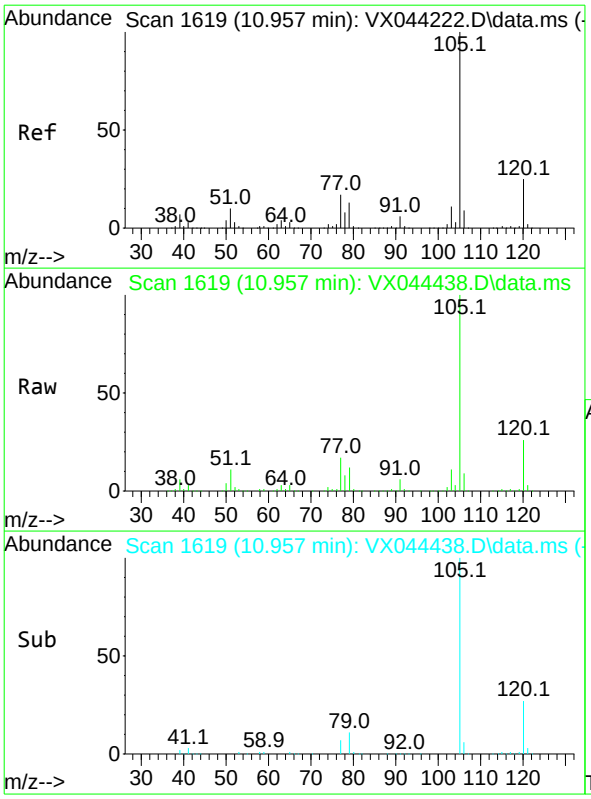


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:152 Resp: 95339

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.5	133.3
150	177.4	0.0	353.8

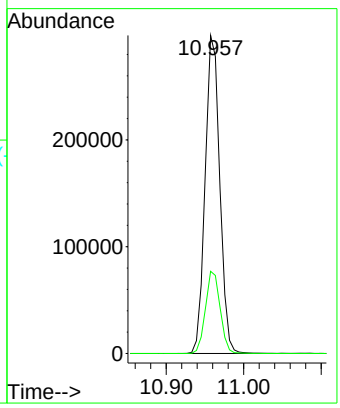




#73
Isopropylbenzene
Concen: 53.495 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 390438

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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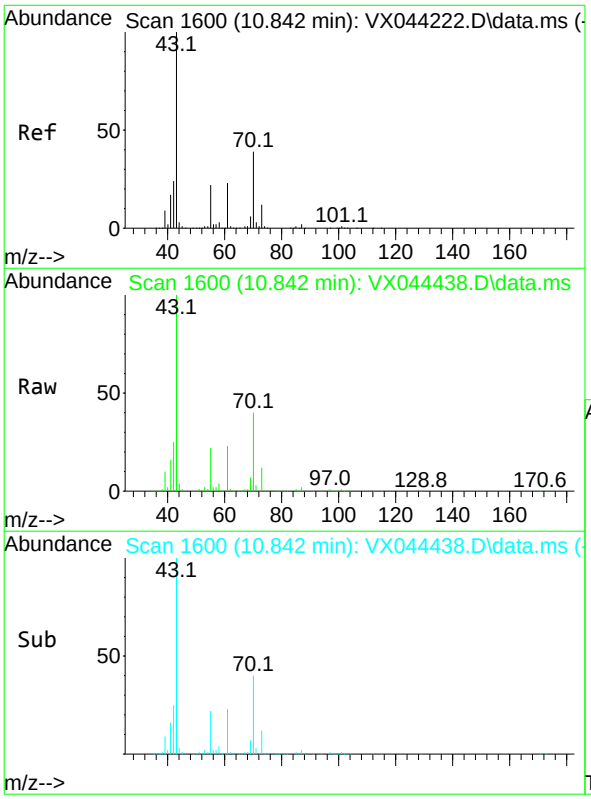
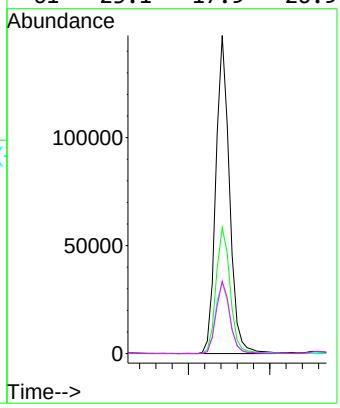
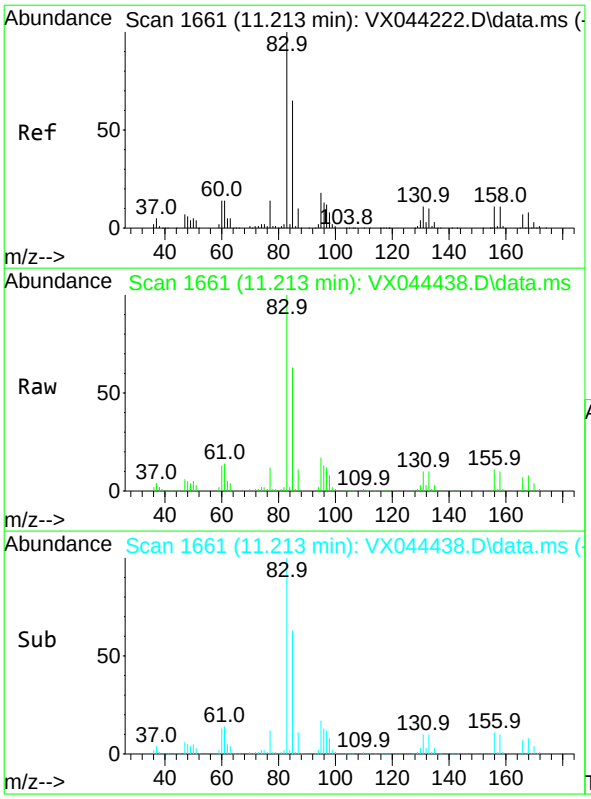


#74
N-amyl acetate
Concen: 50.885 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 171638

Ion	Ratio	Lower	Upper
43	100		
70	41.1	31.9	47.9
55	23.7	17.9	26.9
61	23.1	17.9	26.9

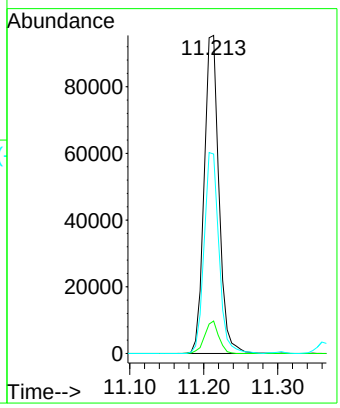




#75
1,1,2,2-Tetrachloroethane
Concen: 52.145 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 132190

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	63.4	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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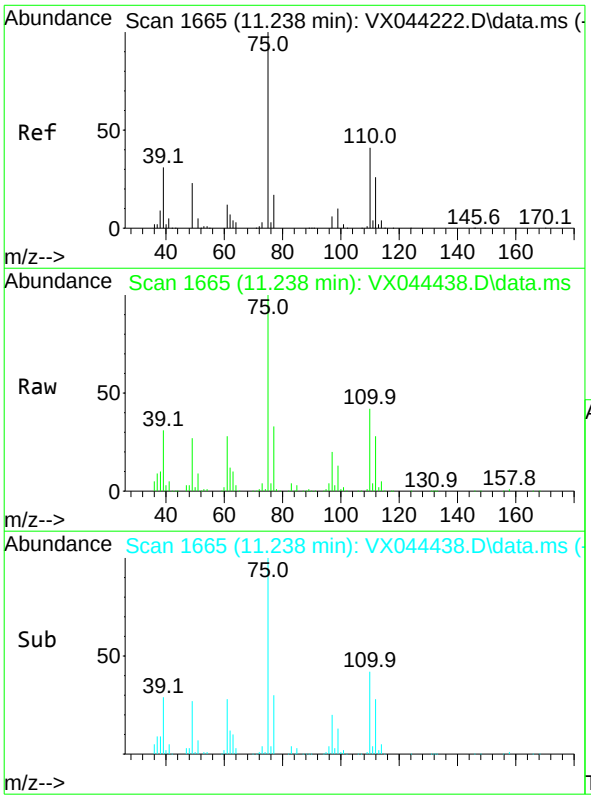
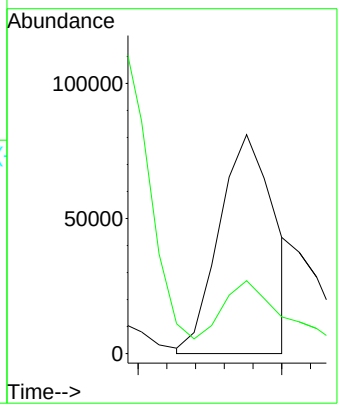
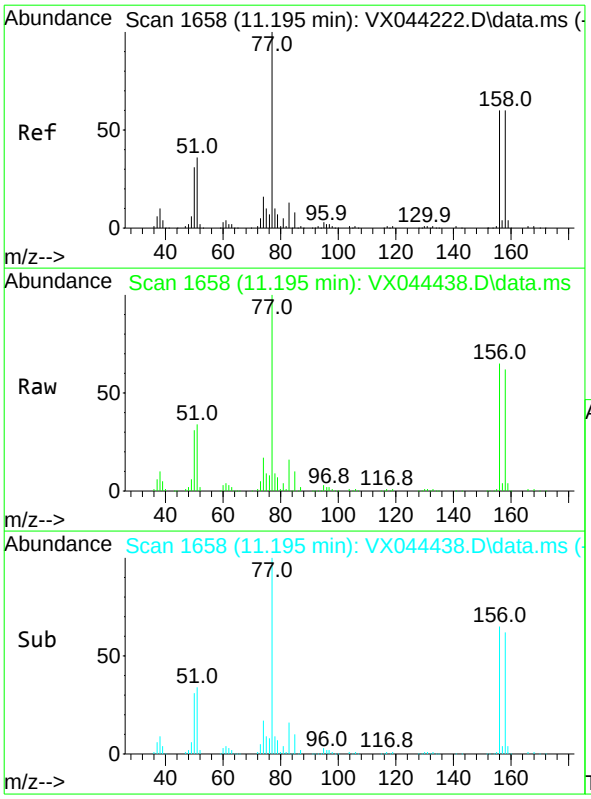


#76
1,2,3-Trichloropropane
Concen: 50.641 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 107800

Ion	Ratio	Lower	Upper
75	100		
77	40.8	20.9	62.7

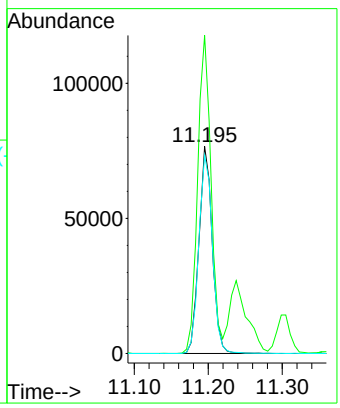




#77
Bromobenzene
Concen: 53.953 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:156 Resp: 95489

Ion	Ratio	Lower	Upper
156	100		
77	155.1	82.6	247.8
158	98.5	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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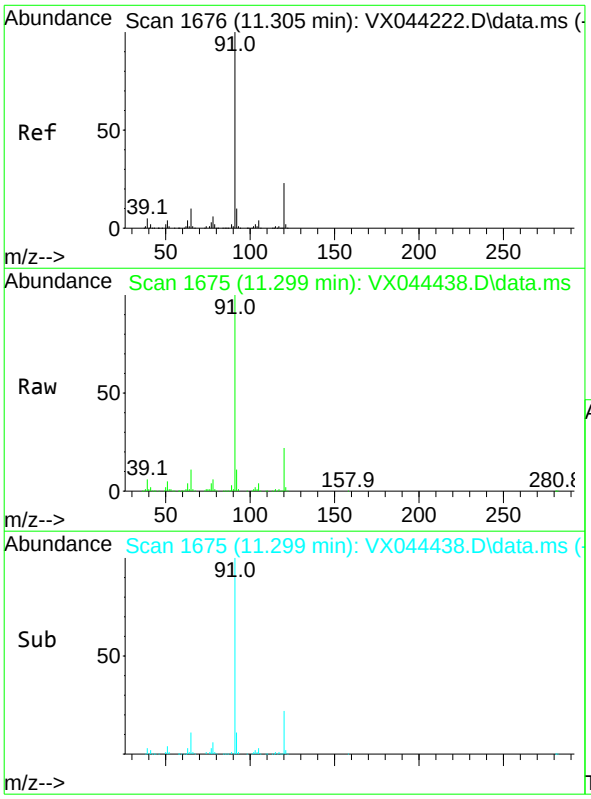
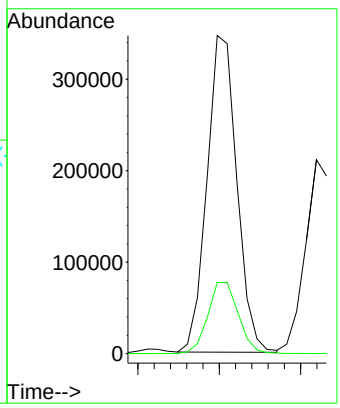
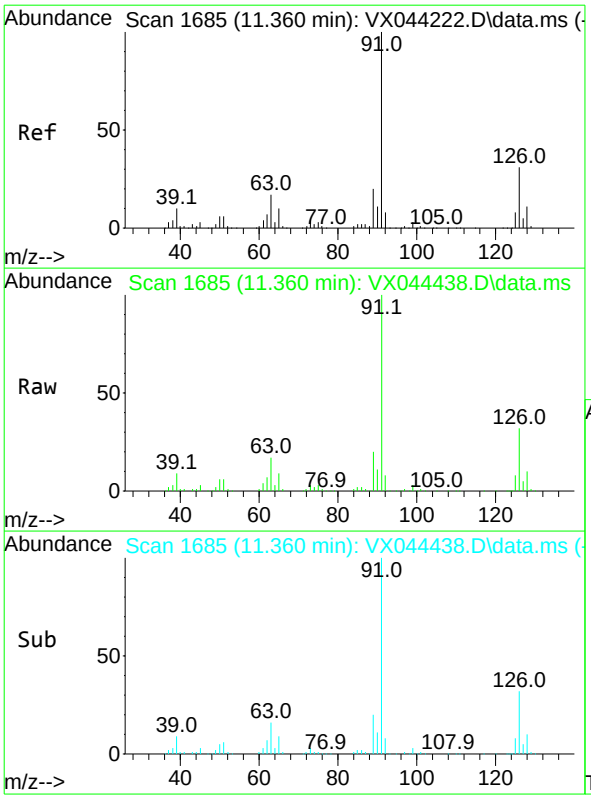


#78
n-propylbenzene
Concen: 54.741 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 441589

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.0	33.0

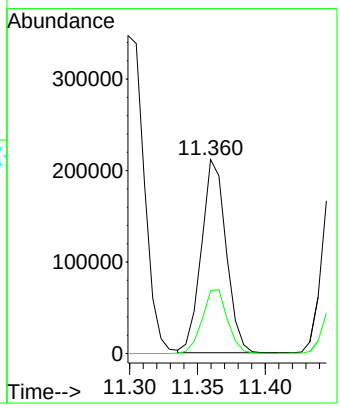




#79
2-Chlorotoluene
Concen: 51.311 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 267690

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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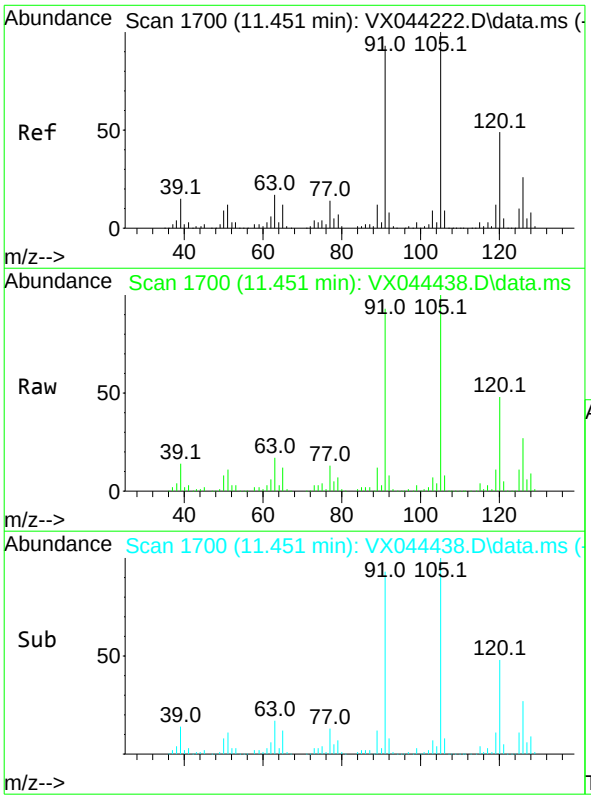
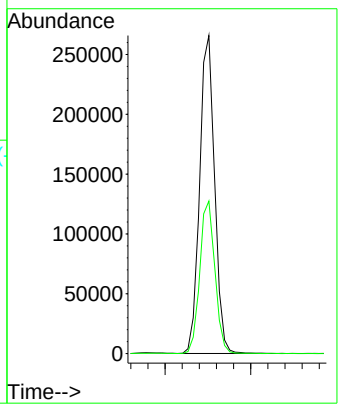
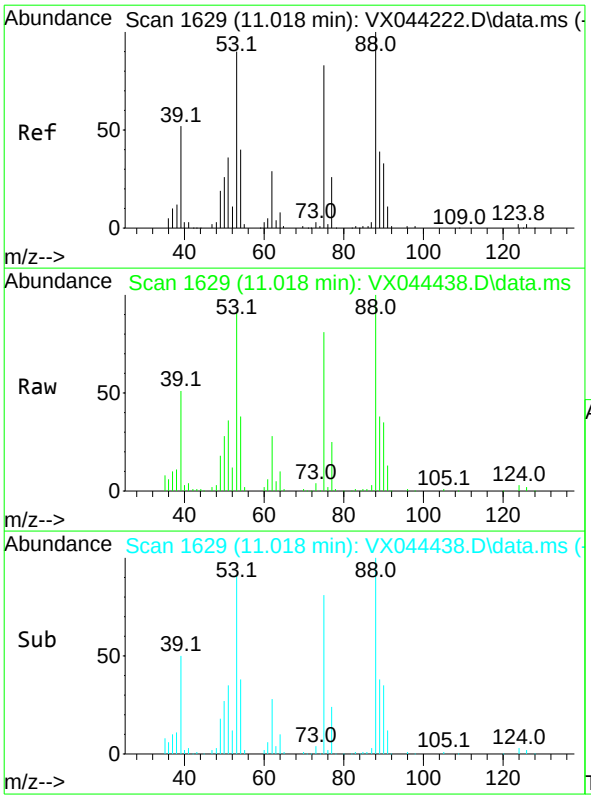


#80
1,3,5-Trimethylbenzene
Concen: 53.284 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 322510

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.8	71.4

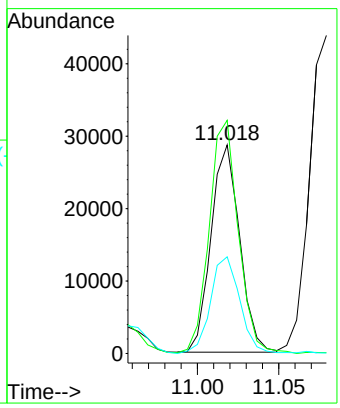




#81
trans-1,4-Dichloro-2-butene
Concen: 47.498 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 35051

Ion	Ratio	Lower	Upper
75	100		
53	114.3	93.6	140.4
89	47.8	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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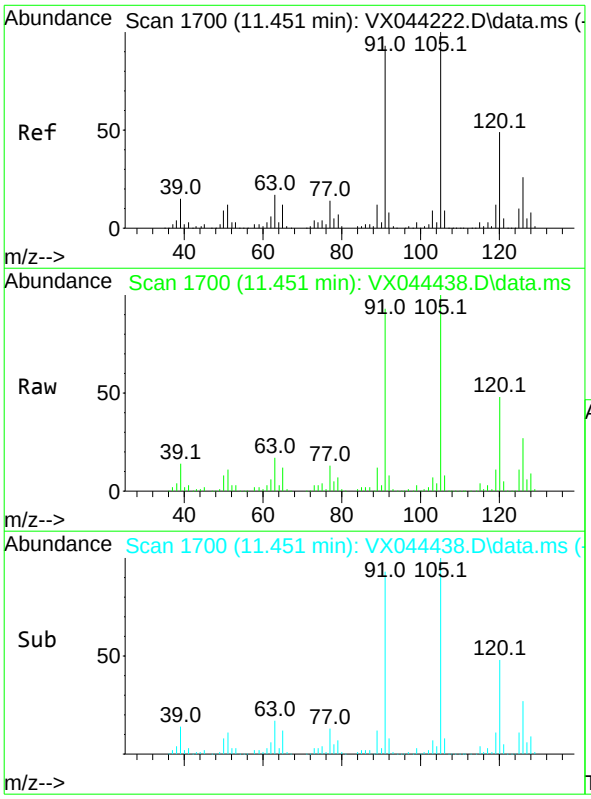
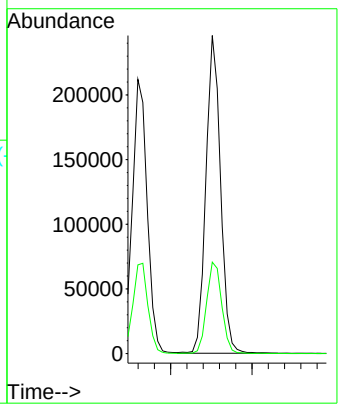
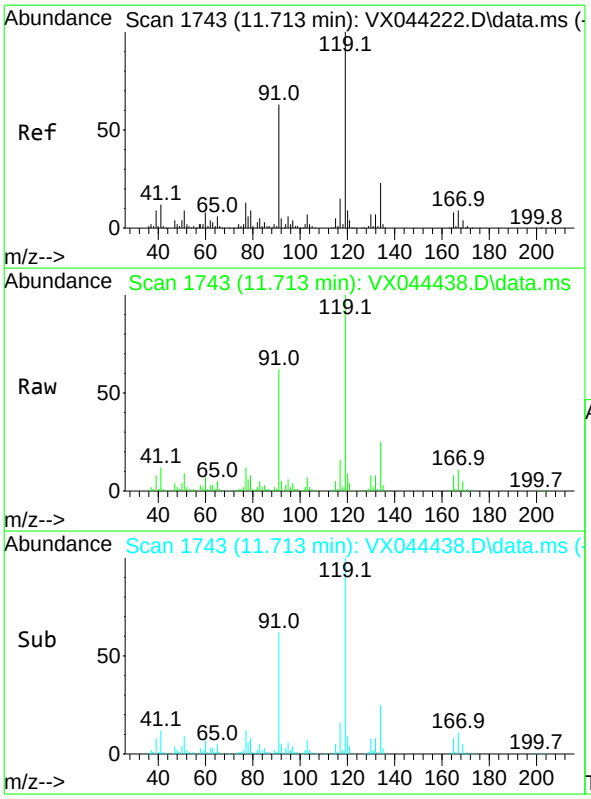


#82
4-Chlorotoluene
Concen: 52.929 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 305777

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.5	43.5

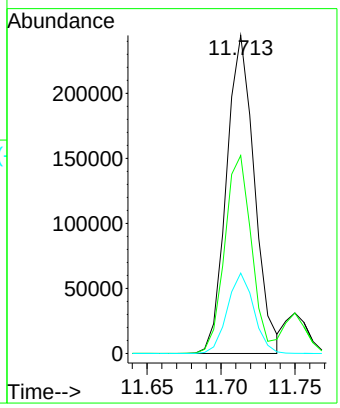




#83
tert-Butylbenzene
Concen: 53.600 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:119 Resp: 320615

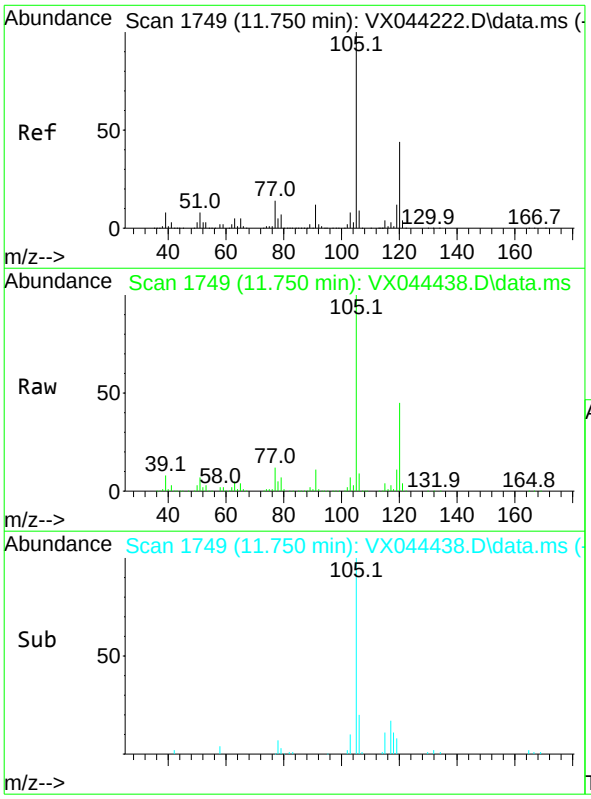
Ion	Ratio	Lower	Upper
119	100		
91	59.4	30.9	92.5
134	24.0	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

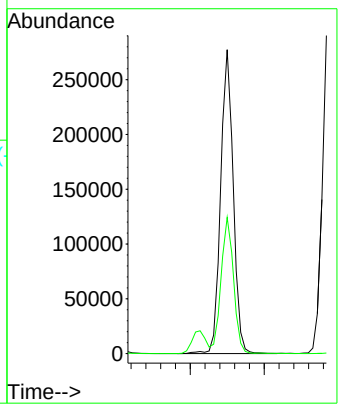
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

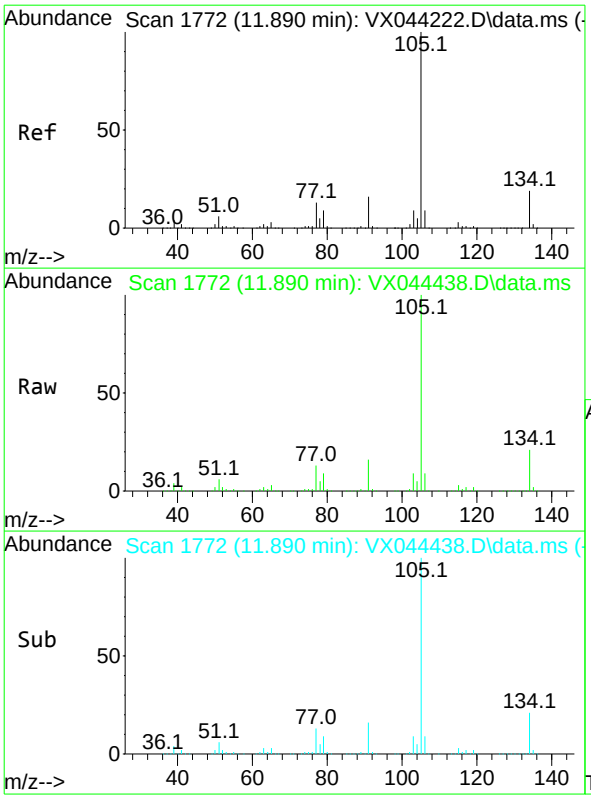


#84
1,2,4-Trimethylbenzene
Concen: 55.123 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 327657

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1

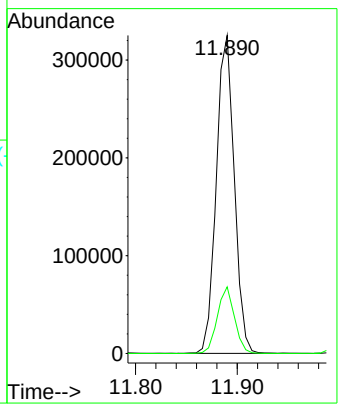




#85
sec-Butylbenzene
Concen: 54.989 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 399310

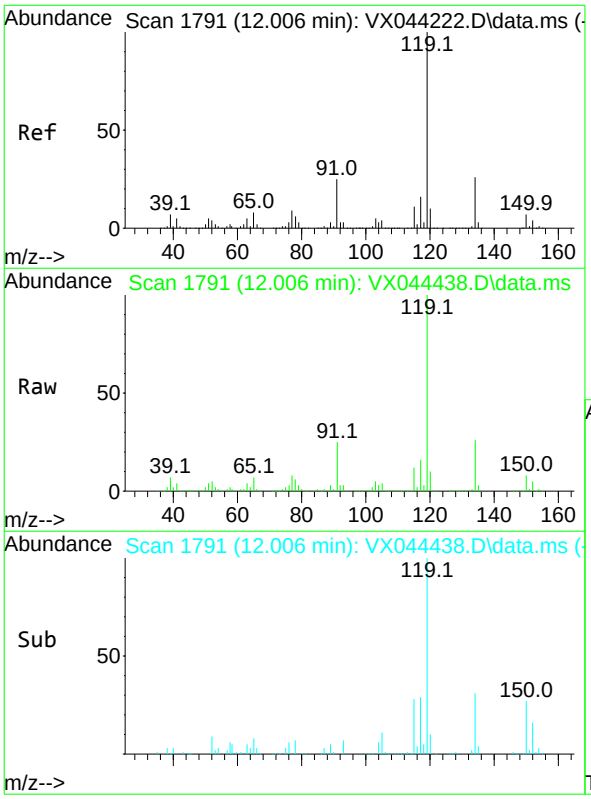
Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

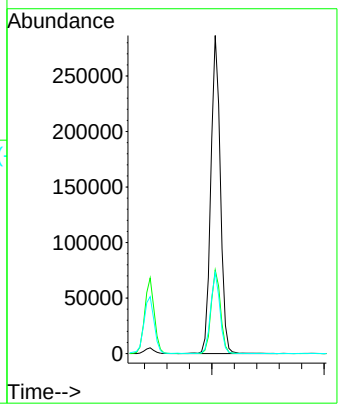
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

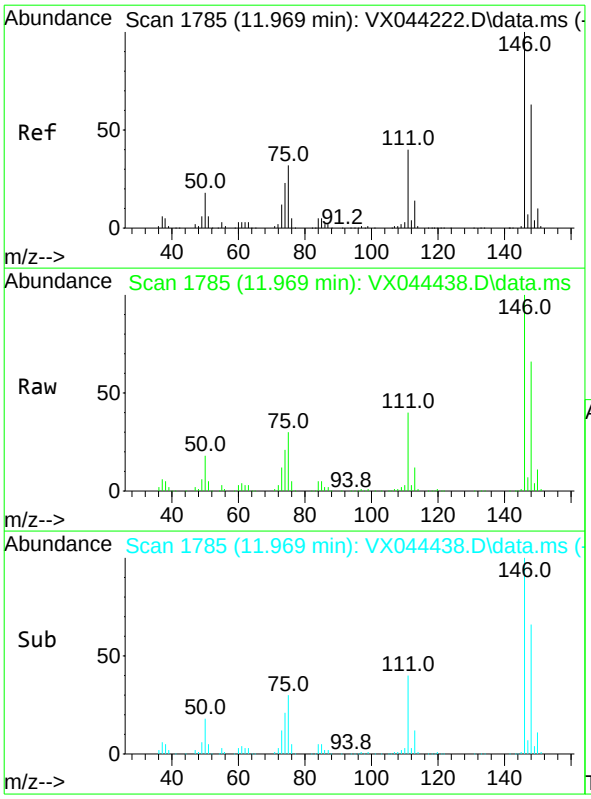


#86
p-Isopropyltoluene
Concen: 55.691 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:119 Resp: 336593

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	24.8	13.0	39.0

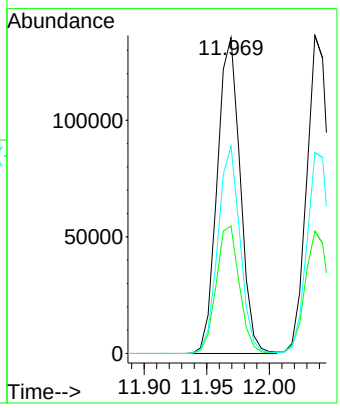




#87
1,3-Dichlorobenzene
Concen: 55.839 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:146 Resp: 172628

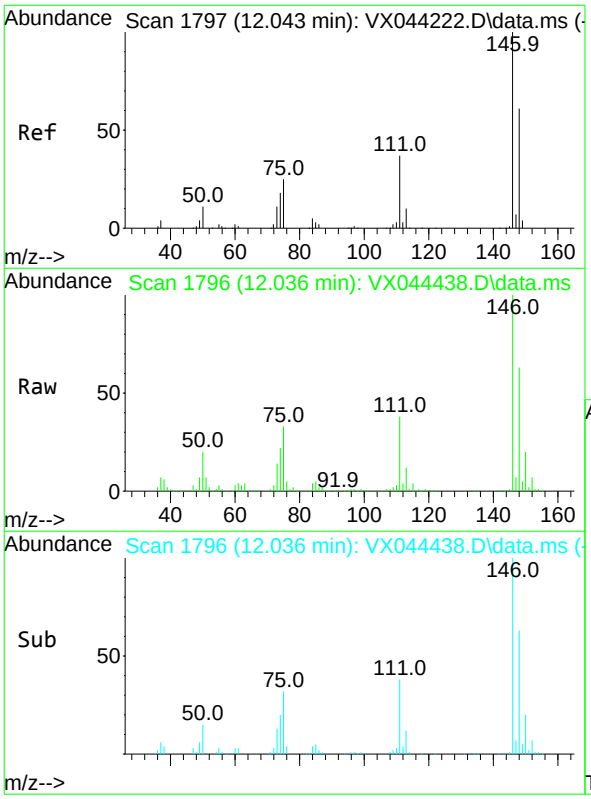
Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.2
148	63.2	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

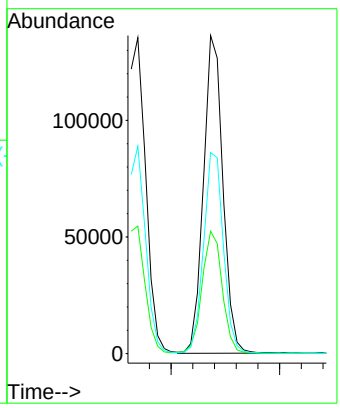
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

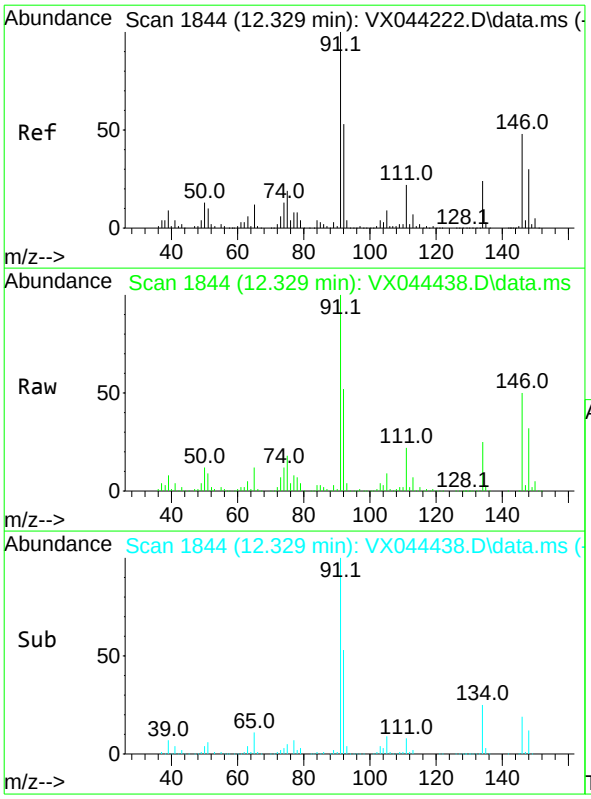


#88
1,4-Dichlorobenzene
Concen: 53.422 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:146 Resp: 169778

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.0	63.0
148	65.0	32.3	96.8

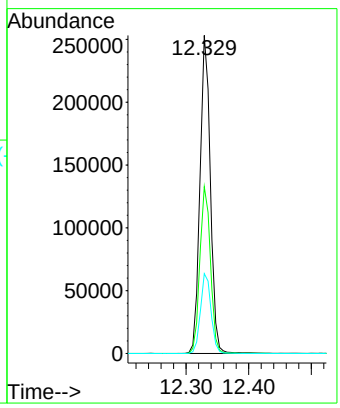




#89
n-Butylbenzene
Concen: 57.503 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 292244

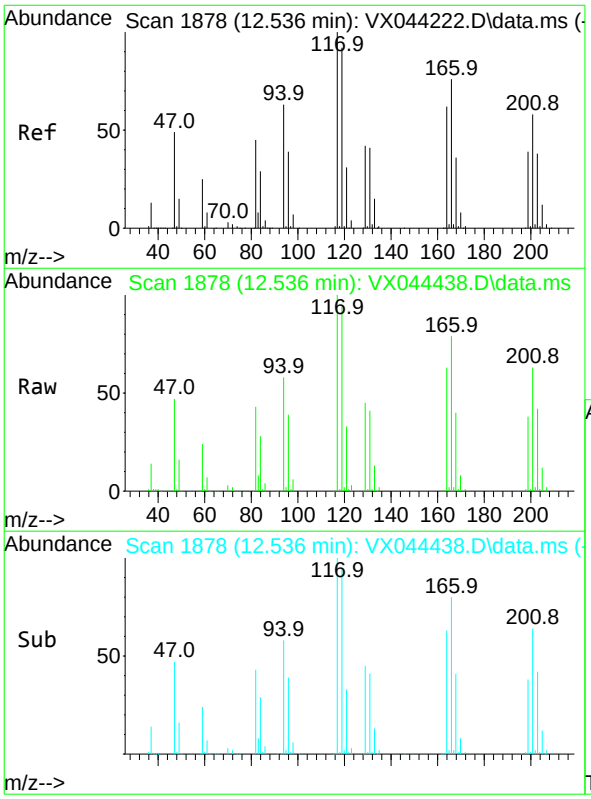
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.7
134	25.5	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

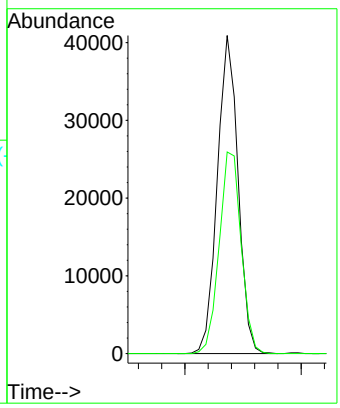
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

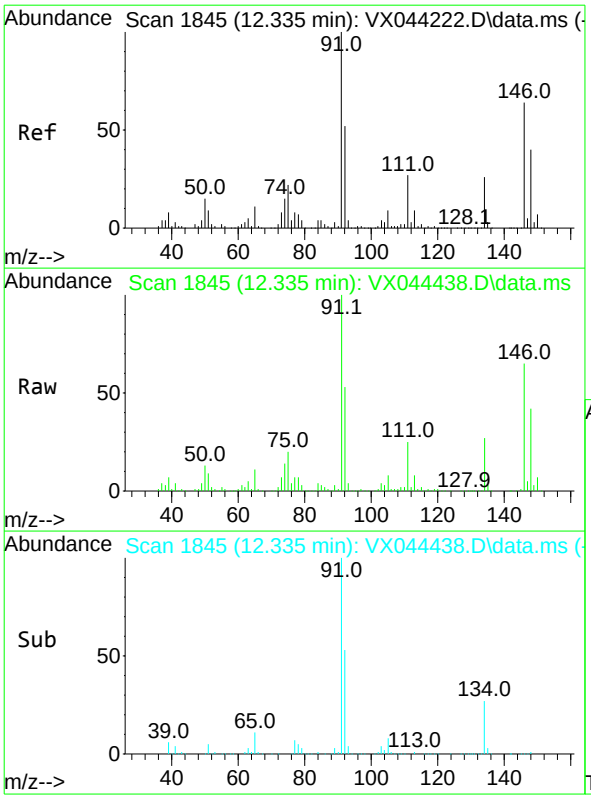


#90
Hexachloroethane
Concen: 57.385 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 50629

Ion	Ratio	Lower	Upper
117	100		
201	67.2	31.4	94.2

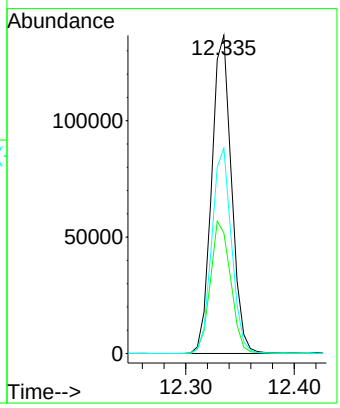




#91
1,2-Dichlorobenzene
Concen: 54.042 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:146 Resp: 173478

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.3
148	64.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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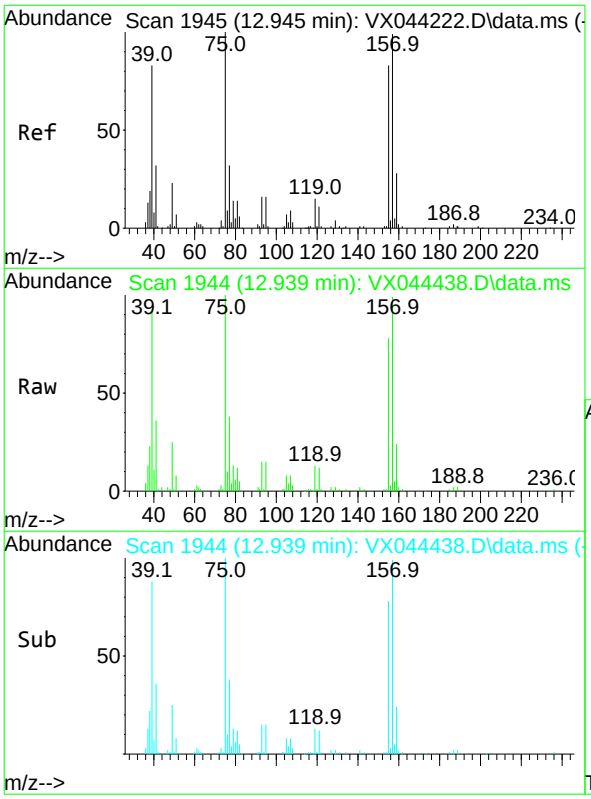
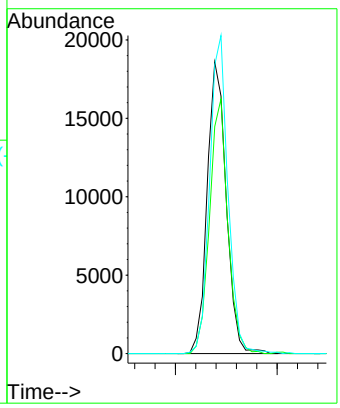
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

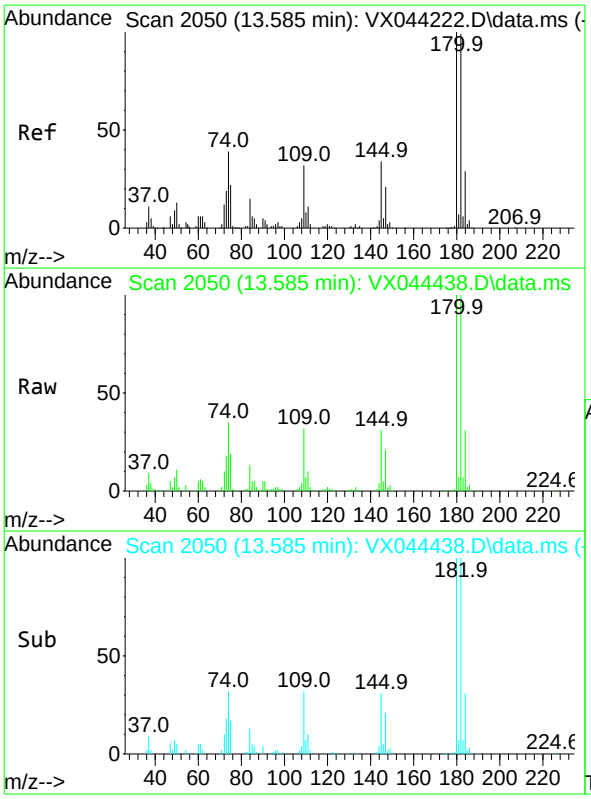


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.022 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 24124

Ion	Ratio	Lower	Upper
75	100		
155	83.8	38.1	114.3
157	105.4	47.2	141.6

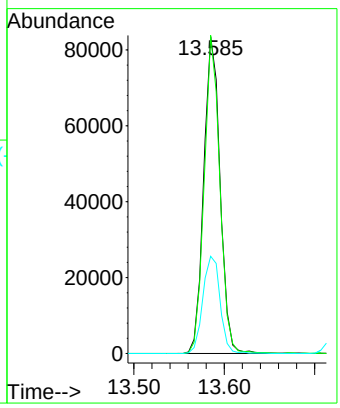




#93
1,2,4-Trichlorobenzene
Concen: 59.504 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:180 Resp: 104720

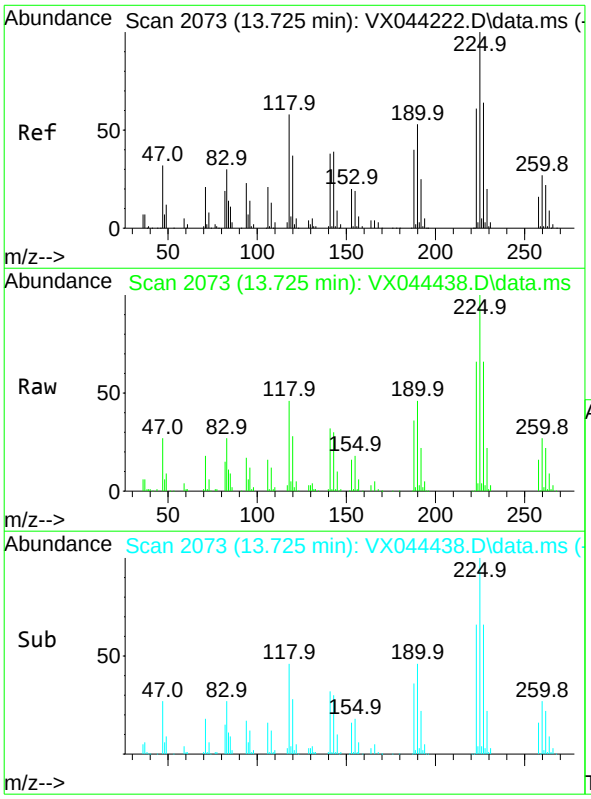
Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	32.4	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

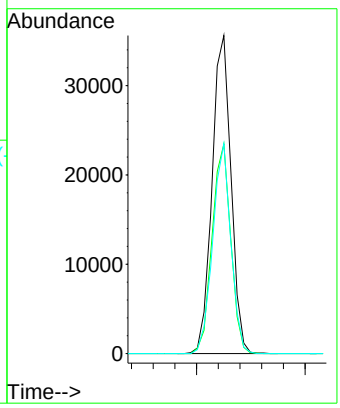
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

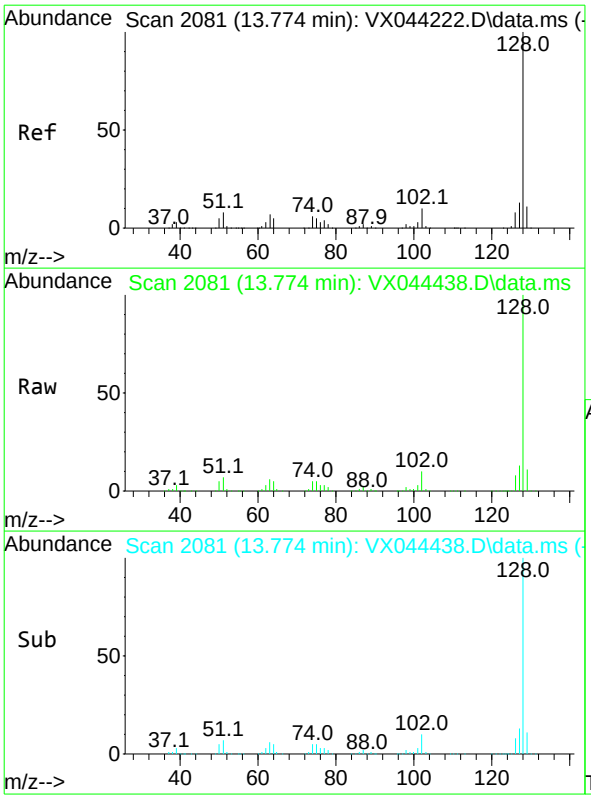


#94
Hexachlorobutadiene
Concen: 60.942 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:225 Resp: 43140

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	63.1	32.1	96.3

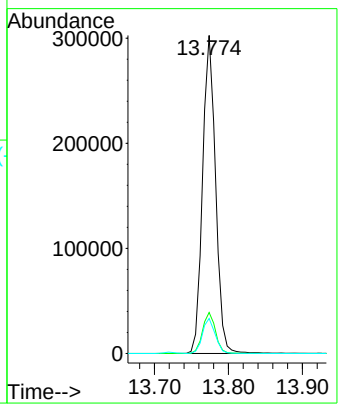




#95
Naphthalene
Concen: 53.772 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:128 Resp: 369385

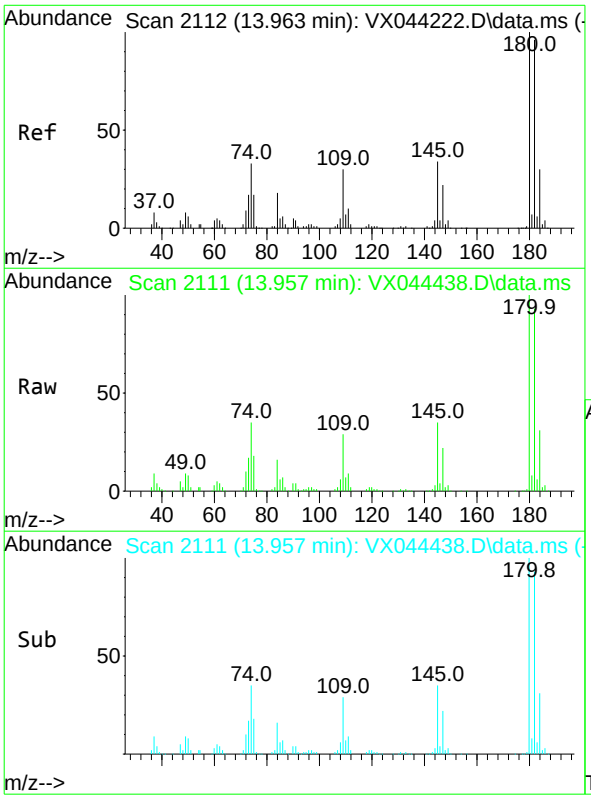
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.9	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

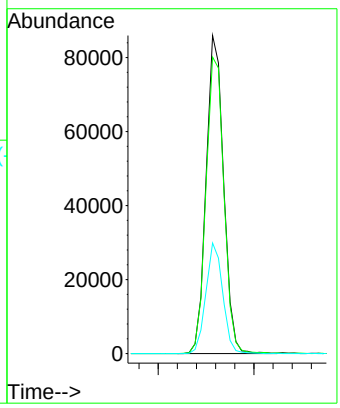
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#96
1,2,3-Trichlorobenzene
Concen: 58.216 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:180 Resp: 108667

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	33.6	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	0.773	0.854	-10.5	118	0.00
3	P	Chloromethane	0.739	0.782	-5.8	112	0.00
4	C	Vinyl Chloride	0.770	0.798	-3.6#	110	0.00
5	T	Bromomethane	0.546	0.532	2.6	105	0.00
6	T	Chloroethane	0.480	0.473	1.5	97	0.00
7	T	Trichlorofluoromethane	1.508	1.482	1.7	104	0.00
8	T	Diethyl Ether	0.515	0.479	7.0	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.676	-10.8	119	0.00
10	T	Methyl Iodide	0.804	0.864	-7.5	111	0.00
11	T	Tert butyl alcohol	0.124	0.102	17.7	92	0.00
12	CM	1,1-Dichloroethene	0.560	0.624	-11.4#	114	0.00
13	T	Acrolein	0.179	0.155	13.4	91	0.00
14	T	Allyl chloride	0.933	0.963	-3.2	104	0.00
15	T	Acrylonitrile	0.342	0.335	2.0	102	0.00
16	T	Acetone	0.357	0.291	18.5	83	0.00
17	T	Carbon Disulfide	1.065	1.106	-3.8	104	0.00
18	T	Methyl Acetate	0.922	0.896	2.8	102	0.00
19	T	Methyl tert-butyl Ether	2.187	2.093	4.3	99	0.00
20	T	Methylene Chloride	0.671	0.689	-2.7	109	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.625	-4.9	110	0.00
22	T	Diisopropyl ether	2.102	2.061	2.0	103	0.00
23	T	Vinyl Acetate	1.709	1.772	-3.7	101	0.00
24	P	1,1-Dichloroethane	1.172	1.203	-2.6	105	0.00
25	T	2-Butanone	0.508	0.457	10.0	91	0.00
26	T	2,2-Dichloropropane	0.952	0.990	-4.0	103	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.755	0.1	106	0.00
28	T	Bromochloromethane	0.575	0.553	3.8	101	0.00
29	T	Tetrahydrofuran	0.326	0.297	8.9	96	0.00
30	C	Chloroform	1.316	1.265	3.9#	102	0.00
31	T	Cyclohexane	0.946	1.000	-5.7	111	0.00
32	T	1,1,1-Trichloroethane	1.093	1.099	-0.5	101	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.836	4.7	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35	S	Dibromofluoromethane	0.346	0.392	-13.3	103	0.00
36	T	1,1-Dichloropropene	0.448	0.494	-10.3	108	0.00
37	T	Ethyl Acetate	0.553	0.556	-0.5	93	0.00
38	T	Carbon Tetrachloride	0.482	0.533	-10.6	103	0.00
39	T	Methylcyclohexane	0.535	0.648	-21.1	113	0.00
40	TM	Benzene	1.359	1.529	-12.5	105	0.00
41	T	Methacrylonitrile	0.294	0.296	-0.7	95	0.00
42	TM	1,2-Dichloroethane	0.560	0.586	-4.6	97	0.00
43	T	Isopropyl Acetate	0.865	0.883	-2.1	93	0.00
44	TM	Trichloroethene	0.339	0.388	-14.5	108	0.00
45	C	1,2-Dichloropropane	0.347	0.369	-6.3#	100	0.00
46	T	Dibromomethane	0.269	0.300	-11.5	102	0.00
47	T	Bromodichloromethane	0.465	0.525	-12.9	100	0.00
48	T	Methyl methacrylate	0.420	0.416	1.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.007	0.006	14.3	81	0.00
50	S	Toluene-d8	1.168	1.318	-12.8	102	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.573	-3.1	94	0.00
52	CM	Toluene	0.853	0.924	-8.3#	102	0.00
53	T	t-1,3-Dichloropropene	0.455	0.517	-13.6	97	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.577	-13.8	99	0.00
55	T	1,1,2-Trichloroethane	0.339	0.374	-10.3	101	0.00
56	T	Ethyl methacrylate	0.535	0.576	-7.7	97	0.00
57	T	1,3-Dichloropropane	0.590	0.635	-7.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.272	-0.7	90	0.00
59	T	2-Hexanone	0.403	0.414	-2.7	91	0.00
60	T	Dibromochloromethane	0.326	0.381	-16.9	100	0.00
61	T	1,2-Dibromoethane	0.345	0.385	-11.6	101	0.00
62	S	4-Bromofluorobenzene	0.408	0.454	-11.3	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
64	T	Tetrachloroethene	0.332	0.378	-13.9	113	0.00
65	PM	Chlorobenzene	1.071	1.187	-10.8	105	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.392	-14.0	101	0.00
67	C	Ethyl Benzene	1.851	2.034	-9.9#	102	0.00
68	T	m/p-Xylenes	0.679	0.780	-14.9	106	0.00
69	T	o-Xylene	0.687	0.748	-8.9	102	0.00
70	T	Styrene	1.102	1.275	-15.7	106	0.00
71	P	Bromoform	0.219	0.266	-21.5	104	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.828	4.095	-7.0	105	0.00
74	T	N-amyl acetate	1.769	1.800	-1.8	94	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.387	-4.4	104	0.00
76	T	1,2,3-Trichloropropane	1.116	1.131	-1.3	101	0.00
77	T	Bromobenzene	0.928	1.002	-8.0	106	0.00
78	T	n-propylbenzene	4.231	4.632	-9.5	103	0.00
79	T	2-Chlorotoluene	2.736	2.808	-2.6	101	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.383	-6.6	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.368	-6.1	100	0.00
82	T	4-Chlorotoluene	3.030	3.207	-5.8	103	0.00
83	T	tert-Butylbenzene	3.137	3.363	-7.2	103	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.437	-10.3	105	0.00
85	T	sec-Butylbenzene	3.808	4.188	-10.0	105	0.00
86	T	p-Isopropyltoluene	3.170	3.530	-11.4	106	0.00
87	T	1,3-Dichlorobenzene	1.621	1.811	-11.7	108	0.00
88	T	1,4-Dichlorobenzene	1.667	1.781	-6.8	107	0.00
89	T	n-Butylbenzene	2.665	3.065	-15.0	108	0.00
90	T	Hexachloroethane	0.463	0.531	-14.7	105	0.00
91	T	1,2-Dichlorobenzene	1.683	1.820	-8.1	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.253	1.9	93	0.00
93	T	1,2,4-Trichlorobenzene	0.923	1.098	-19.0	112	0.00
94	T	Hexachlorobutadiene	0.371	0.452	-21.8	123	0.00
95	T	Naphthalene	3.603	3.874	-7.5	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.140	-16.4	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	50.000	55.219	-10.4	118	0.00
3	P	Chloromethane	50.000	52.856	-5.7	112	0.00
4	C	Vinyl Chloride	50.000	51.825	-3.7#	110	0.00
5	T	Bromomethane	50.000	48.640	2.7	105	0.00
6	T	Chloroethane	50.000	49.350	1.3	97	0.00
7	T	Trichlorofluoromethane	50.000	49.144	1.7	104	0.00
8	T	Diethyl Ether	50.000	46.573	6.9	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.436	-10.9	119	0.00
10	T	Methyl Iodide	50.000	53.737	-7.5	111	0.00
11	T	Tert butyl alcohol	250.000	207.237	17.1	92	0.00
12	CM	1,1-Dichloroethene	50.000	55.650	-11.3#	114	0.00
13	T	Acrolein	250.000	216.034	13.6	91	0.00
14	T	Allyl chloride	50.000	51.595	-3.2	104	0.00
15	T	Acrylonitrile	250.000	245.064	2.0	102	0.00
16	T	Acetone	250.000	203.262	18.7	83	0.00
17	T	Carbon Disulfide	50.000	51.902	-3.8	104	0.00
18	T	Methyl Acetate	50.000	48.611	2.8	102	0.00
19	T	Methyl tert-butyl Ether	50.000	47.845	4.3	99	0.00
20	T	Methylene Chloride	50.000	51.347	-2.7	109	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.474	-4.9	110	0.00
22	T	Diisopropyl ether	50.000	49.031	1.9	103	0.00
23	T	Vinyl Acetate	250.000	259.287	-3.7	101	0.00
24	P	1,1-Dichloroethane	50.000	51.322	-2.6	105	0.00
25	T	2-Butanone	250.000	225.066	10.0	91	0.00
26	T	2,2-Dichloropropane	50.000	51.979	-4.0	103	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.931	0.1	106	0.00
28	T	Bromochloromethane	50.000	48.128	3.7	101	0.00
29	T	Tetrahydrofuran	250.000	227.599	9.0	96	0.00
30	C	Chloroform	50.000	48.035	3.9#	102	0.00
31	T	Cyclohexane	50.000	52.839	-5.7	111	0.00
32	T	1,1,1-Trichloroethane	50.000	50.298	-0.6	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.679	4.6	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35	S	Dibromofluoromethane	50.000	56.586	-13.2	103	0.00
36	T	1,1-Dichloropropene	50.000	55.205	-10.4	108	0.00
37	T	Ethyl Acetate	50.000	50.217	-0.4	93	0.00
38	T	Carbon Tetrachloride	50.000	55.304	-10.6	103	0.00
39	T	Methylcyclohexane	50.000	60.512	-21.0	113	0.00
40	TM	Benzene	50.000	56.259	-12.5	105	0.00
41	T	Methacrylonitrile	50.000	50.310	-0.6	95	0.00
42	TM	1,2-Dichloroethane	50.000	52.362	-4.7	97	0.00
43	T	Isopropyl Acetate	50.000	51.076	-2.2	93	0.00
44	TM	Trichloroethene	50.000	57.285	-14.6	108	0.00
45	C	1,2-Dichloropropane	50.000	53.131	-6.3#	100	0.00
46	T	Dibromomethane	50.000	55.676	-11.4	102	0.00
47	T	Bromodichloromethane	50.000	56.402	-12.8	100	0.00
48	T	Methyl methacrylate	50.000	49.554	0.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	906.120	9.4	81	0.00
50	S	Toluene-d8	50.000	56.385	-12.8	102	0.00
51	T	4-Methyl-2-Pentanone	250.000	257.494	-3.0	94	0.00
52	CM	Toluene	50.000	54.120	-8.2#	102	0.00
53	T	t-1,3-Dichloropropene	50.000	51.640	-3.3	97	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.913	-13.8	99	0.00
55	T	1,1,2-Trichloroethane	50.000	55.124	-10.2	101	0.00
56	T	Ethyl methacrylate	50.000	53.800	-7.6	97	0.00
57	T	1,3-Dichloropropane	50.000	53.824	-7.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	252.070	-0.8	90	0.00
59	T	2-Hexanone	250.000	256.860	-2.7	91	0.00
60	T	Dibromochloromethane	50.000	52.901	-5.8	100	0.00
61	T	1,2-Dibromoethane	50.000	55.721	-11.4	101	0.00
62	S	4-Bromofluorobenzene	50.000	55.640	-11.3	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	96	0.00
64	T	Tetrachloroethene	50.000	57.001	-14.0	113	0.00
65	PM	Chlorobenzene	50.000	55.402	-10.8	105	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.959	-13.9	101	0.00
67	C	Ethyl Benzene	50.000	54.936	-9.9#	102	0.00
68	T	m/p-Xylenes	100.000	114.771	-14.8	106	0.00
69	T	o-Xylene	50.000	54.389	-8.8	102	0.00
70	T	Styrene	50.000	57.862	-15.7	106	0.00
71	P	Bromoform	50.000	54.671	-9.3	104	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	53.495	-7.0	105	0.00
74	T	N-amyl acetate	50.000	50.885	-1.8	94	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.145	-4.3	104	0.00
76	T	1,2,3-Trichloropropane	50.000	50.641	-1.3	101	0.00
77	T	Bromobenzene	50.000	53.953	-7.9	106	0.00
78	T	n-propylbenzene	50.000	54.741	-9.5	103	0.00
79	T	2-Chlorotoluene	50.000	51.311	-2.6	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.284	-6.6	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.498	5.0	100	0.00
82	T	4-Chlorotoluene	50.000	52.929	-5.9	103	0.00
83	T	tert-Butylbenzene	50.000	53.600	-7.2	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.123	-10.2	105	0.00
85	T	sec-Butylbenzene	50.000	54.989	-10.0	105	0.00
86	T	p-Isopropyltoluene	50.000	55.691	-11.4	106	0.00
87	T	1,3-Dichlorobenzene	50.000	55.839	-11.7	108	0.00
88	T	1,4-Dichlorobenzene	50.000	53.422	-6.8	107	0.00
89	T	n-Butylbenzene	50.000	57.503	-15.0	108	0.00
90	T	Hexachloroethane	50.000	57.385	-14.8	105	0.00
91	T	1,2-Dichlorobenzene	50.000	54.042	-8.1	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.022	2.0	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	59.504	-19.0	112	0.00
94	T	Hexachlorobutadiene	50.000	60.942	-21.9	123	0.00
95	T	Naphthalene	50.000	53.772	-7.5	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	58.216	-16.4	112	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.773	0.744		-3.75	50
Chloromethane	0.739	0.696	0.1	-5.82	50
Vinyl Chloride	0.770	0.730		-5.2	50
Bromomethane	0.546	0.498		-8.79	50
Chloroethane	0.480	0.507		5.63	50
Trichlorofluoromethane	1.508	1.202		-20.29	50
1,1,2-Trichlorotrifluoroethane	0.610	0.590		-3.28	50
1,1-Dichloroethene	0.560	0.560		0	50
Acetone	0.357	0.270		-24.37	50
Carbon Disulfide	1.065	1.089		2.25	50
Methyl tert-butyl Ether	2.187	1.972		-9.83	50
Methyl Acetate	0.922	0.860		-6.72	50
Methylene Chloride	0.671	0.636		-5.22	50
trans-1,2-Dichloroethene	0.596	0.578		-3.02	50
1,1-Dichloroethane	1.172	1.125	0.1	-4.01	50
Cyclohexane	0.946	0.871		-7.93	50
2-Butanone	0.508	0.433		-14.76	50
Carbon Tetrachloride	0.482	0.495		2.7	50
cis-1,2-Dichloroethene	0.756	0.719		-4.89	50
Bromochloromethane	0.575	0.510		-11.3	50
Chloroform	1.316	1.190		-9.57	50
1,1,1-Trichloroethane	1.093	1.029		-5.86	50
Methylcyclohexane	0.535	0.550		2.8	50
Benzene	1.359	1.393		2.5	50
1,2-Dichloroethane	0.560	0.534		-4.64	50
Trichloroethene	0.339	0.360		6.2	50
1,2-Dichloropropane	0.347	0.345		-0.58	50
Bromodichloromethane	0.465	0.491		5.59	50
4-Methyl-2-Pentanone	0.556	0.524		-5.76	50
Toluene	0.853	0.855		0.23	50
t-1,3-Dichloropropene	0.455	0.482		5.93	50
cis-1,3-Dichloropropene	0.507	0.531		4.73	50
1,1,2-Trichloroethane	0.339	0.345		1.77	50
2-Hexanone	0.403	0.381		-5.46	50
Dibromochloromethane	0.326	0.361		10.74	50
1,2-Dibromoethane	0.345	0.366		6.09	50
Tetrachloroethene	0.332	0.343		3.31	50
Chlorobenzene	1.071	1.094	0.3	2.15	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: AECO15

Lab Code: CHEM Case No.: P5281 SAS No.: P5281 SDG No.: P5281

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.851	1.868		0.92	50
m/p-Xylenes	0.679	0.713		5.01	50
o-Xylene	0.687	0.708		3.06	50
Styrene	1.102	1.163		5.53	50
Bromoform	0.219	0.251	0.1	14.61	50
Isopropylbenzene	3.828	3.829		0.03	50
1,1,2,2-Tetrachloroethane	1.329	1.278	0.3	-3.84	50
1,3-Dichlorobenzene	1.621	1.669		2.96	50
1,4-Dichlorobenzene	1.667	1.653		-0.84	50
1,2-Dichlorobenzene	1.684	1.709		1.49	50
1,2-Dibromo-3-Chloropropane	0.258	0.238		-7.75	50
1,2,4-Trichlorobenzene	0.923	1.000		8.34	50
1,2,3-Trichlorobenzene	0.979	1.036		5.82	50
1,2-Dichloroethane-d4	0.877	0.778		-11.29	50
Dibromofluoromethane	0.346	0.363		4.91	50
Toluene-d8	1.168	1.213		3.85	50
4-Bromofluorobenzene	0.408	0.418		2.45	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\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	140284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	239068	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	206477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109103	44.357	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.720%			
35) Dibromofluoromethane	5.379	113	86675	52.347	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.700%			
50) Toluene-d8	8.647	98	290046	51.923	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.840%			
62) 4-Bromofluorobenzene	11.079	95	99862	51.161	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	104302	48.084	ug/l	95
3) Chloromethane	1.294	50	97601	47.052	ug/l	99
4) Vinyl Chloride	1.374	62	102407	47.388	ug/l	96
5) Bromomethane	1.593	94	69880	45.581	ug/l	98
6) Chloroethane	1.666	64	71114	52.848	ug/l	97
7) Trichlorofluoromethane	1.868	101	168610	39.855	ug/l	98
8) Diethyl Ether	2.136	74	61643	42.687	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	82704	48.311	ug/l	96
10) Methyl Iodide	2.441	142	113213	50.177	ug/l	98
11) Tert butyl alcohol	2.989	59	71333	205.778	ug/l	100
12) 1,1-Dichloroethene	2.306	96	78622	50.001	ug/l	95
13) Acrolein	2.239	56	111786	222.774	ug/l	98
14) Allyl chloride	2.654	41	124514	47.541	ug/l	97
15) Acrylonitrile	3.062	53	217189	226.182	ug/l	98
16) Acetone	2.386	43	189212	188.692	ug/l	95
17) Carbon Disulfide	2.502	76	152826	51.130	ug/l	100
18) Methyl Acetate	2.709	43	120686	46.678	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	276668	45.089	ug/l	99
20) Methylene Chloride	2.782	84	89276	47.401	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	81078	48.517	ug/l	99
22) Diisopropyl ether	3.764	45	265503	45.018	ug/l	98
23) Vinyl Acetate	3.721	43	1167584	243.510	ug/l	98
24) 1,1-Dichloroethane	3.605	63	157858	48.018	ug/l	99
25) 2-Butanone	4.562	43	303982	213.237	ug/l	98
26) 2,2-Dichloropropane	4.471	77	116211	43.513	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	100836	47.511	ug/l	95
28) Bromochloromethane	4.891	49	71526	44.369	ug/l	95
29) Tetrahydrofuran	5.007	42	194494	212.557	ug/l	99
30) Chloroform	5.093	83	166909	45.189	ug/l	99
31) Cyclohexane	5.464	56	122203	46.033	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	144394	47.095	ug/l	99
36) 1,1-Dichloropropene	5.684	75	104911	49.017	ug/l	97
37) Ethyl Acetate	4.721	43	127468	48.180	ug/l	100
38) Carbon Tetrachloride	5.666	117	118357	51.365	ug/l	99
39) Methylcyclohexane	7.373	83	131438	51.370	ug/l	96
40) Benzene	6.031	78	333117	51.262	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	66592	47.401	ug/l		98
42) 1,2-Dichloroethane	6.080	62	127634	47.680	ug/l		98
43) Isopropyl Acetate	6.342	43	198680	48.047	ug/l		98
44) Trichloroethene	7.117	130	86021	53.083	ug/l		93
45) 1,2-Dichloropropane	7.428	63	82383	49.622	ug/l		96
46) Dibromomethane	7.574	93	65924	51.184	ug/l		94
47) Bromodichloromethane	7.818	83	117278	52.723	ug/l		100
48) Methyl methacrylate	7.690	41	94575	47.115	ug/l		96
49) 1,4-Dioxane	7.659	88	33398	1003.530	ug/l		93
51) 4-Methyl-2-Pentanone	8.574	43	625919	235.413	ug/l		99
52) Toluene	8.714	92	204328	50.071	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	115268	48.388	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	127004	52.437	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	82378	50.814	ug/l		96
56) Ethyl methacrylate	9.116	69	131845	51.516	ug/l		95
57) 1,3-Dichloropropane	9.305	76	140522	49.799	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	314516	243.652	ug/l		98
59) 2-Hexanone	9.433	43	454909	236.376	ug/l		99
60) Dibromochloromethane	9.519	129	86219	50.206	ug/l		99
61) 1,2-Dibromoethane	9.604	107	87547	53.053	ug/l		98
64) Tetrachloroethene	9.269	164	70888	51.727	ug/l		97
65) Chlorobenzene	10.079	112	225888	51.056	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	79060	55.601	ug/l		99
67) Ethyl Benzene	10.189	91	385756	50.462	ug/l		96
68) m/p-Xylenes	10.299	106	294612	105.028	ug/l		95
69) o-Xylene	10.640	106	146149	51.494	ug/l		93
70) Styrene	10.653	104	240058	52.761	ug/l		96
71) Bromoform	10.799	173	51823	51.900	ug/l	#	99
73) Isopropylbenzene	10.957	105	374548	50.011	ug/l		100
74) N-amyl acetate	10.842	43	168135	48.576	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	125030	48.065	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	102028m	46.709	ug/l		
77) Bromobenzene	11.195	156	94262	51.903	ug/l		94
78) n-propylbenzene	11.305	91	417465	50.432	ug/l		98
79) 2-Chlorotoluene	11.360	91	253139	47.285	ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	309218	49.787	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	32407	43.348	ug/l		95
82) 4-Chlorotoluene	11.451	91	289306	48.802	ug/l		98
83) tert-Butylbenzene	11.713	119	312731	50.950	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	308415	50.564	ug/l		98
85) sec-Butylbenzene	11.890	105	376639	50.546	ug/l		99
86) p-Isopropyltoluene	12.006	119	319422	51.504	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	163311	51.480	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	161681	49.579	ug/l		98
89) n-Butylbenzene	12.329	91	261860	50.212	ug/l		99
90) Hexachloroethane	12.536	117	47928	52.940	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	167214	50.764	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	23250	46.042	ug/l		87
93) 1,2,4-Trichlorobenzene	13.585	180	97858	54.188	ug/l		98
94) Hexachlorobutadiene	13.725	225	40506	55.763	ug/l		98
95) Naphthalene	13.774	128	343151	48.680	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	101400	52.939	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

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

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

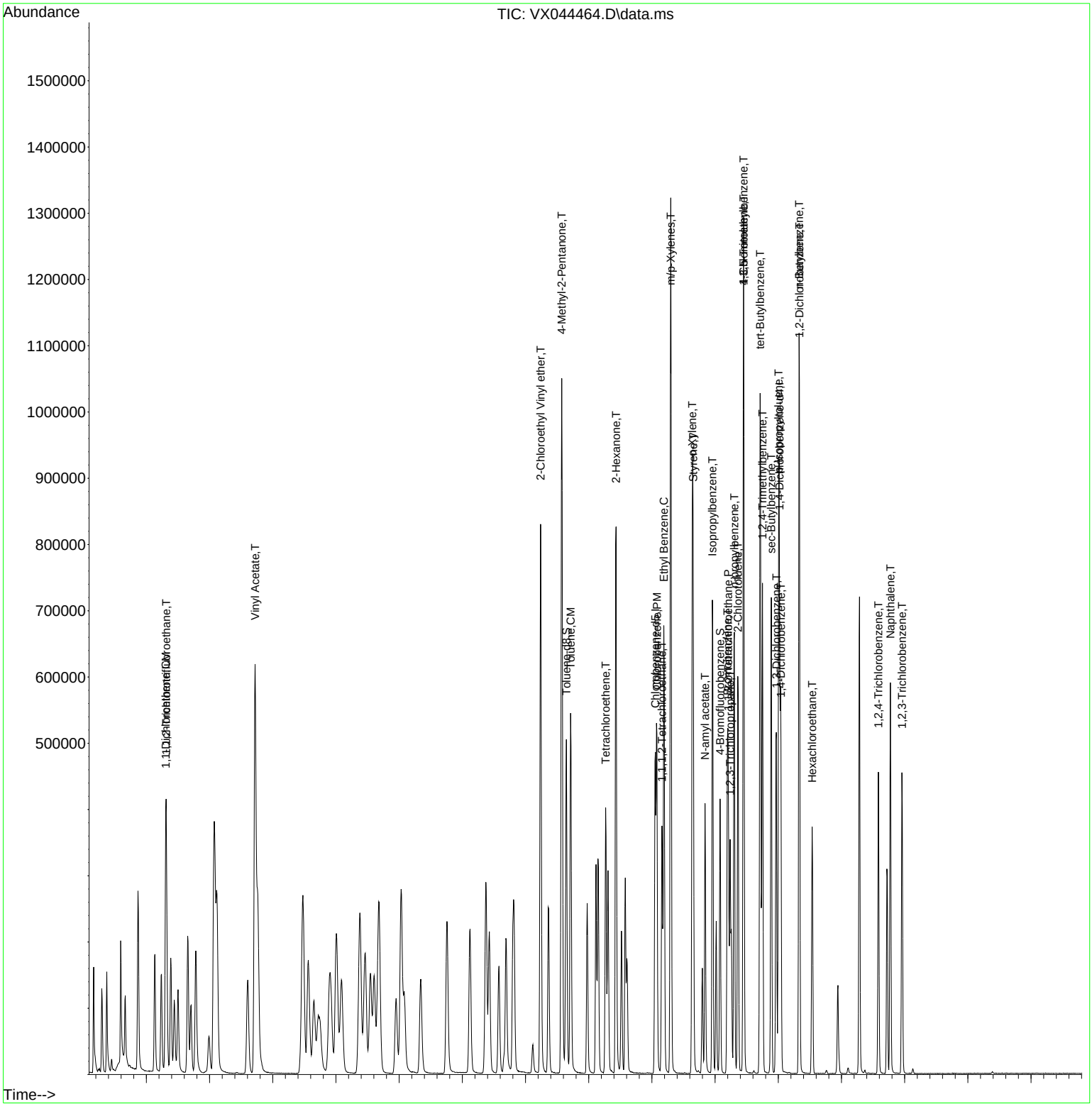
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

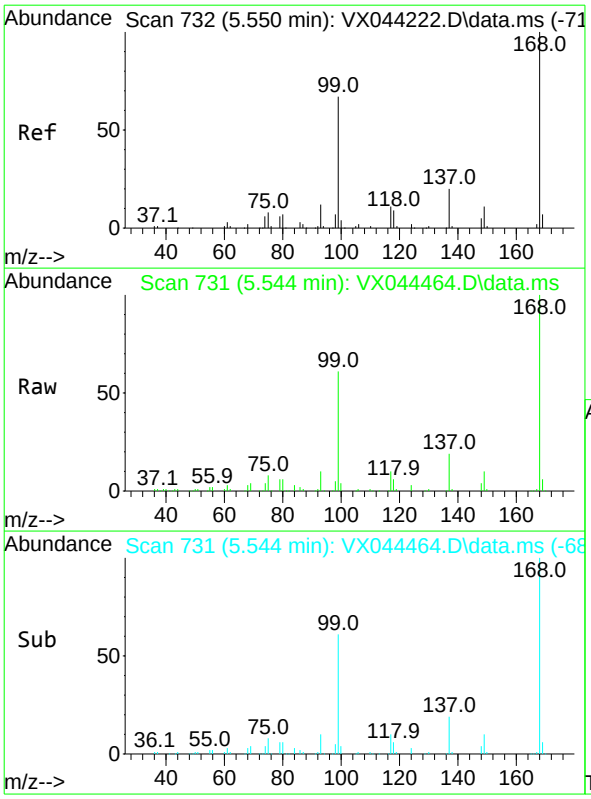
Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

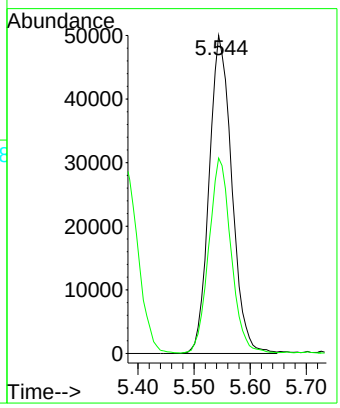




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:168 Resp: 140284

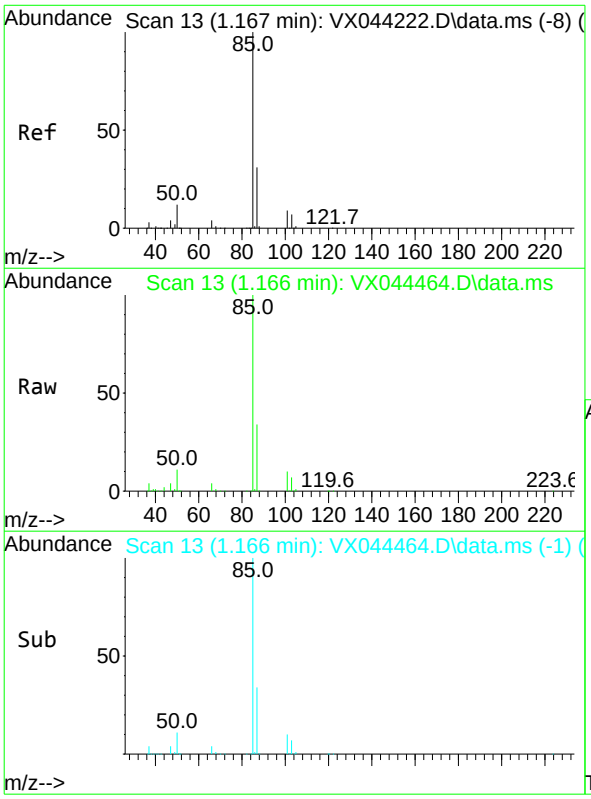
Ion	Ratio	Lower	Upper
168	100		
99	61.2	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

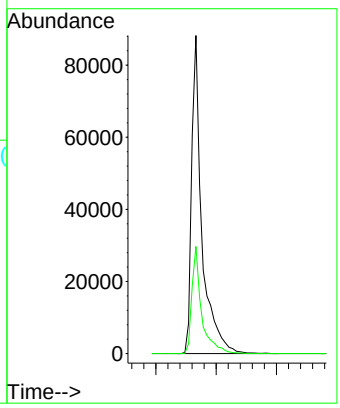
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

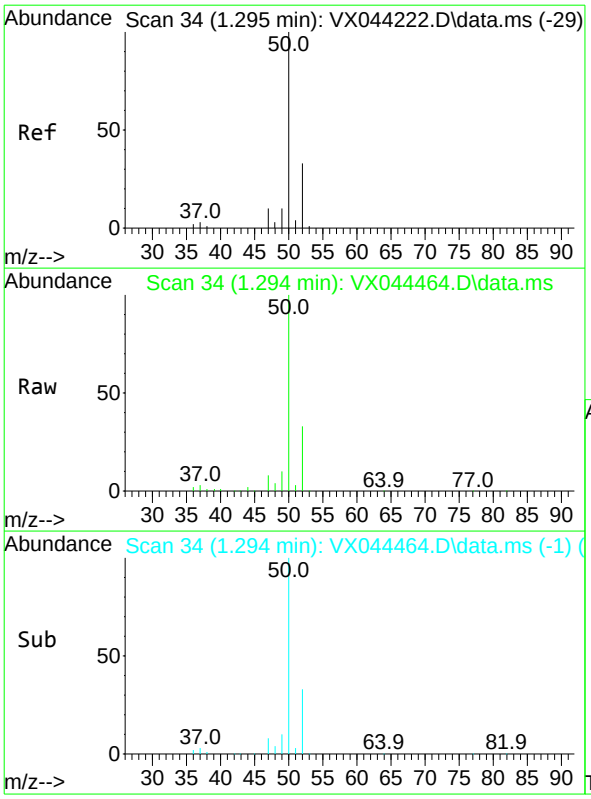


#2
Dichlorodifluoromethane
Concen: 48.084 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 85 Resp: 104302

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.4	46.4

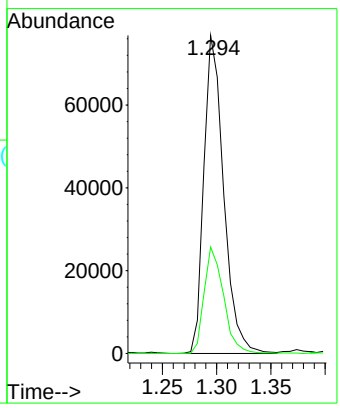




#3
Chloromethane
Concen: 47.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 50 Resp: 97601

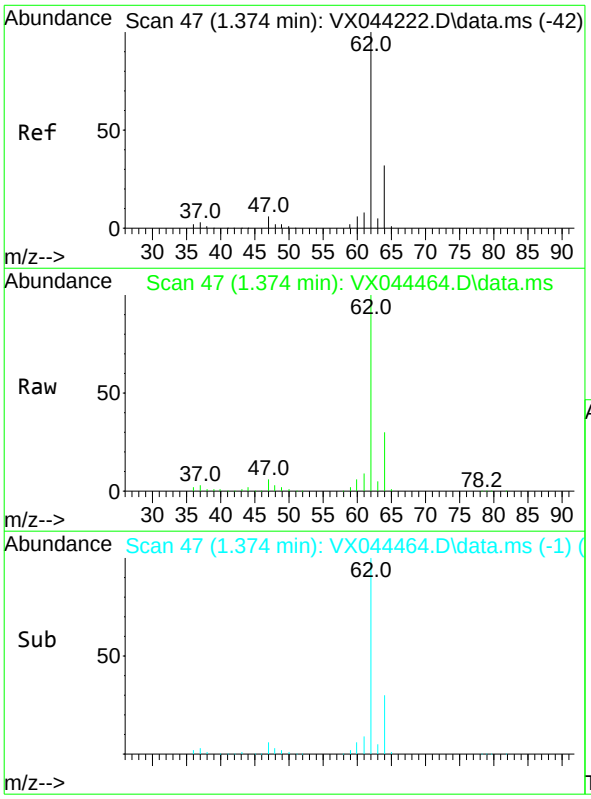
Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

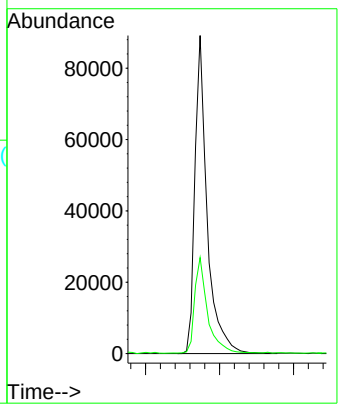
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

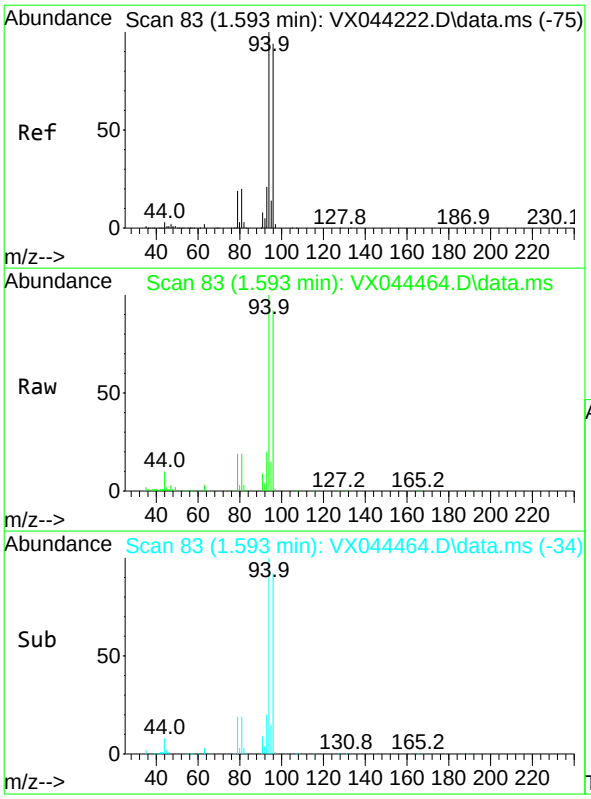


#4
Vinyl Chloride
Concen: 47.388 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 102407

Ion	Ratio	Lower	Upper
62	100		
64	30.0	25.7	38.5

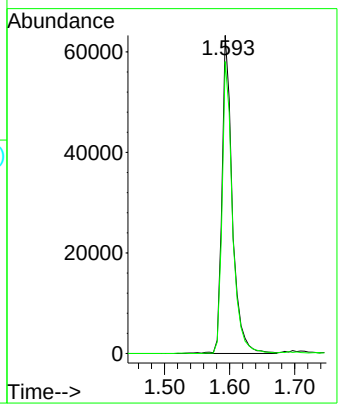




#5
Bromomethane
Concen: 45.581 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 94 Resp: 69880

Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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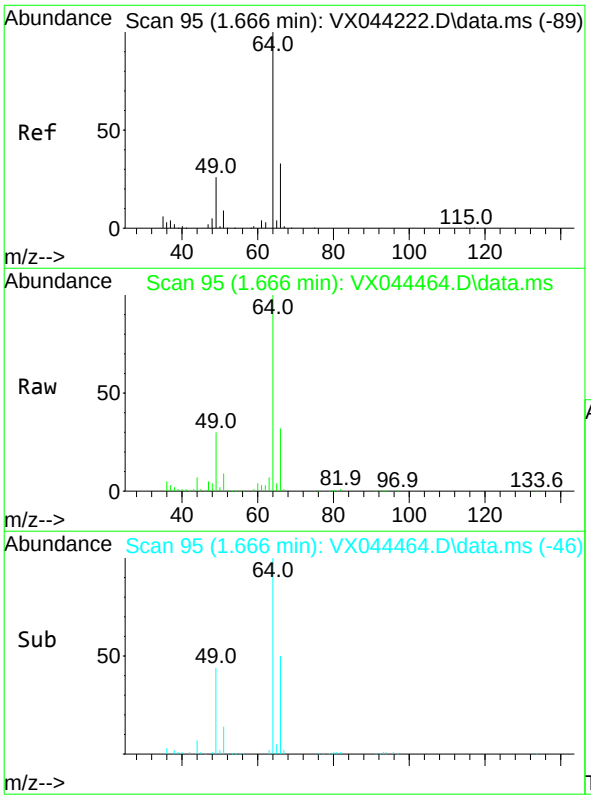
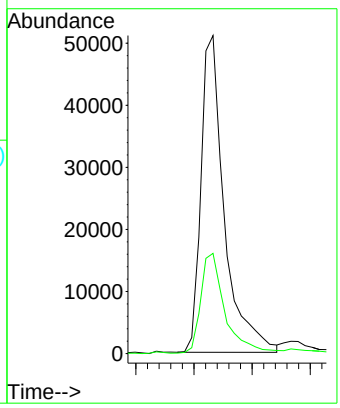
Supervised By :Mahesh Dadoda 12/24/2024

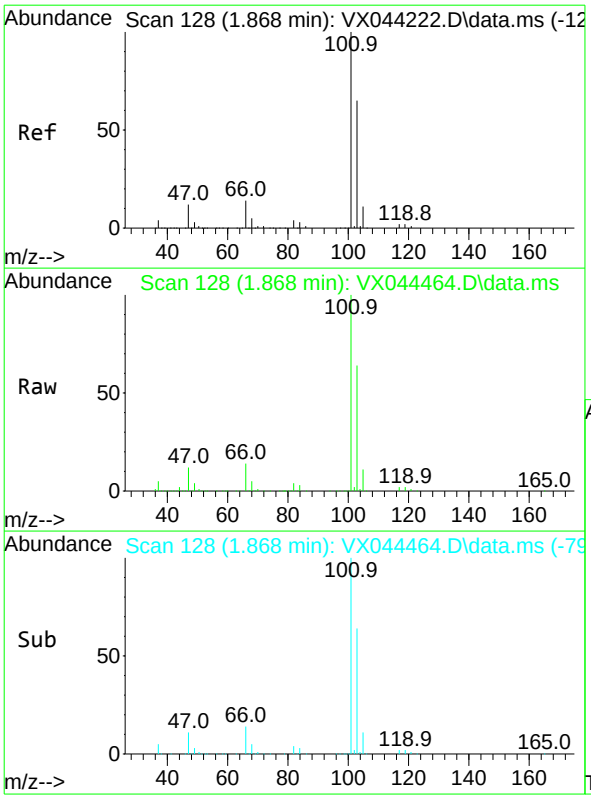


#6
Chloroethane
Concen: 52.848 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 64 Resp: 71114

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.6	39.8

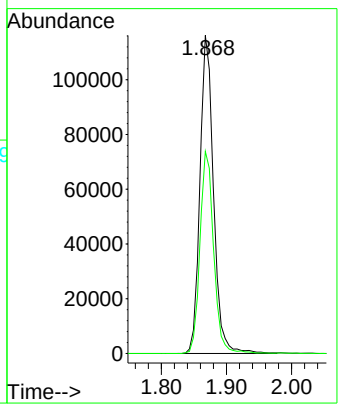




#7
Trichlorofluoromethane
Concen: 39.855 ug/l
RT: 1.868 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:101 Resp: 168610

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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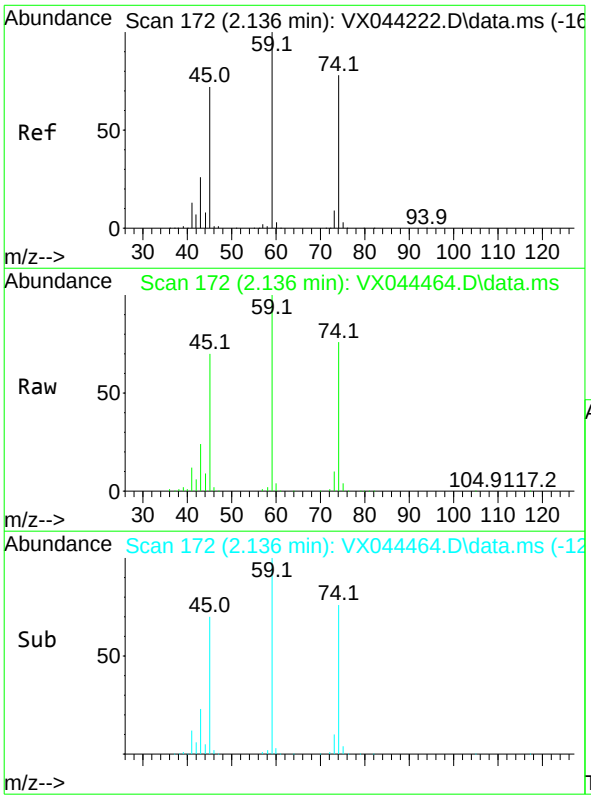
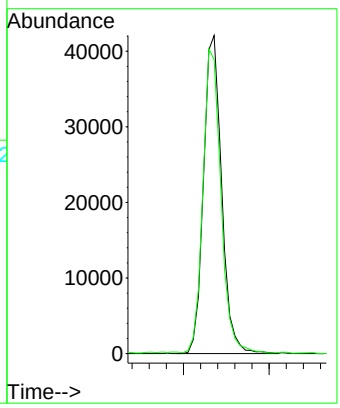
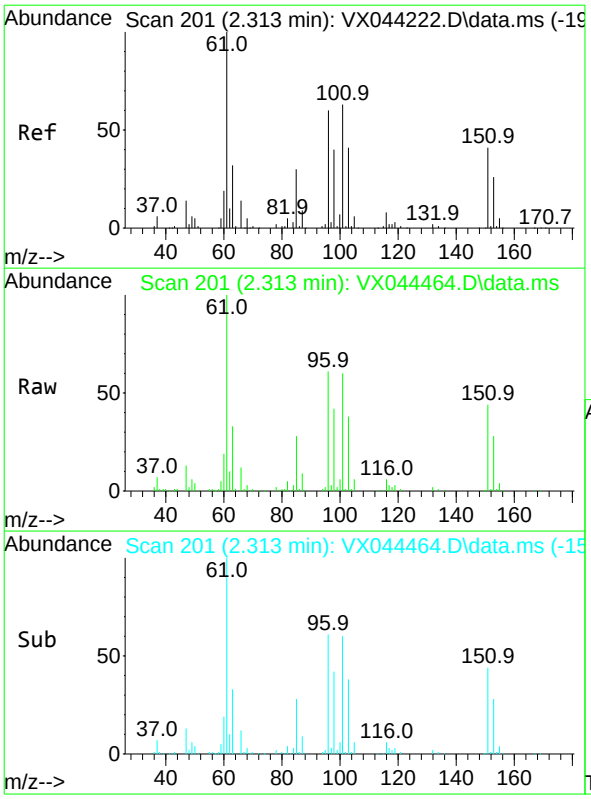


#8
Diethyl Ether
Concen: 42.687 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 74 Resp: 61643

Ion	Ratio	Lower	Upper
74	100		
45	94.9	48.4	145.0

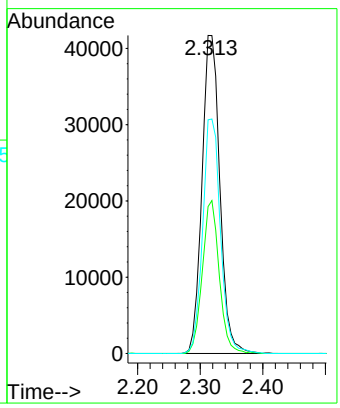




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.311 ug/l
RT: 2.313 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:101 Resp: 82704

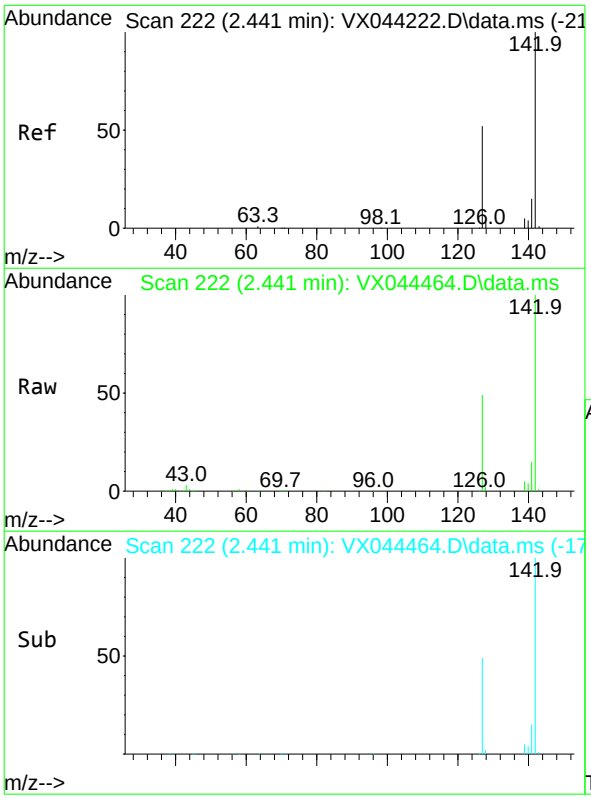
Ion	Ratio	Lower	Upper
101	100		
85	45.4	38.5	57.7
151	73.6	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

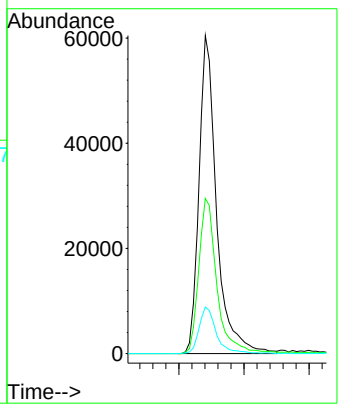
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

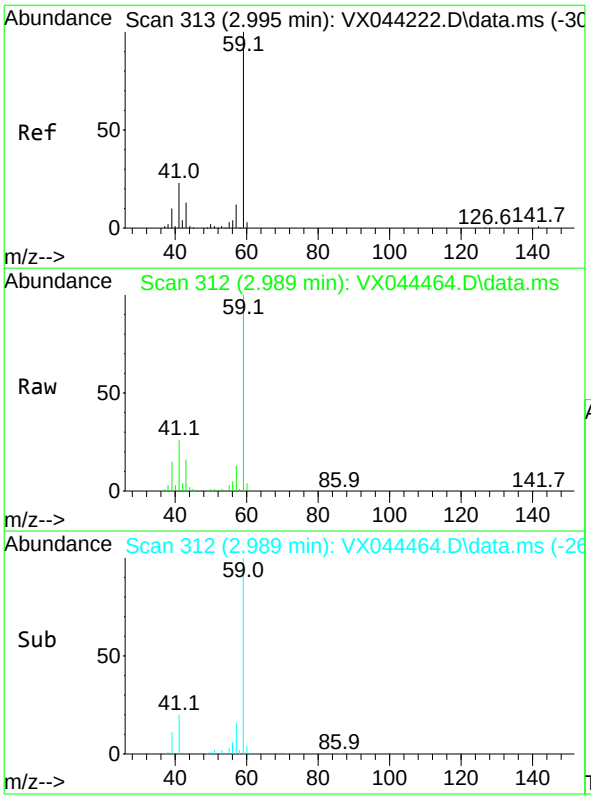


#10
Methyl Iodide
Concen: 50.177 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:142 Resp: 113213

Ion	Ratio	Lower	Upper
142	100		
127	50.5	41.8	62.8
141	14.5	11.5	17.3

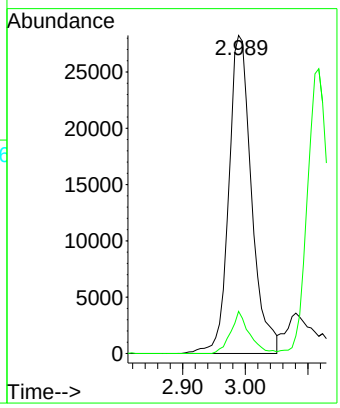




#11
Tert butyl alcohol
Concen: 205.778 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 59 Resp: 71333

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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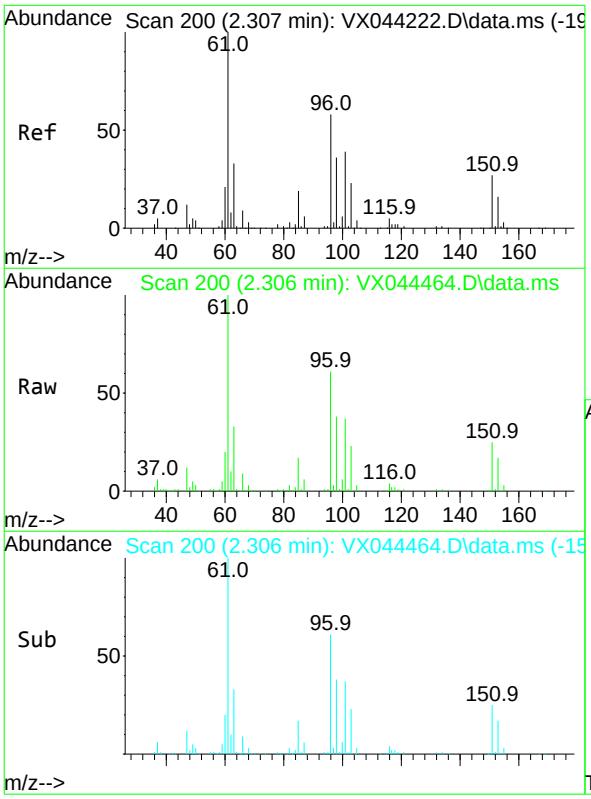
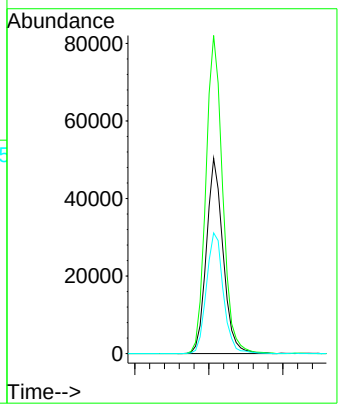
Supervised By :Mahesh Dadoda 12/24/2024

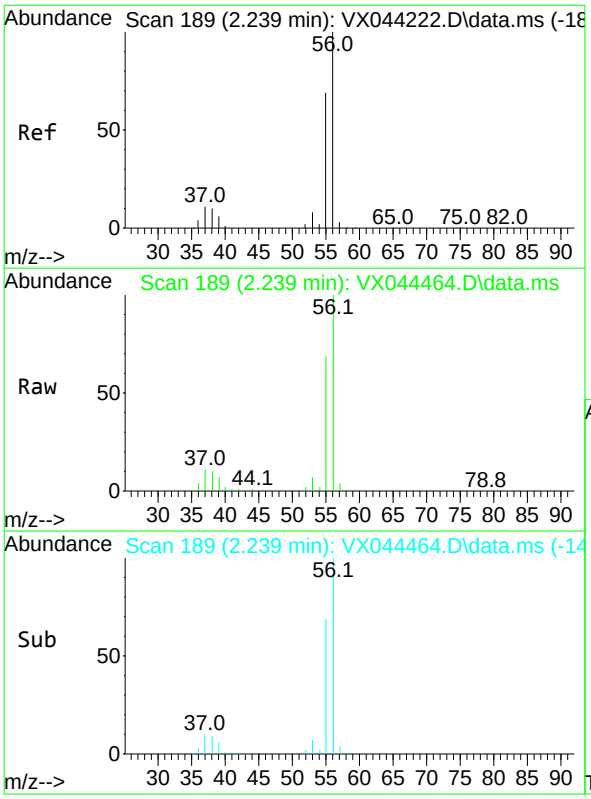


#12
1,1-Dichloroethene
Concen: 50.001 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 78622

Ion	Ratio	Lower	Upper
96	100		
61	162.8	138.0	207.0
98	61.8	50.0	75.0

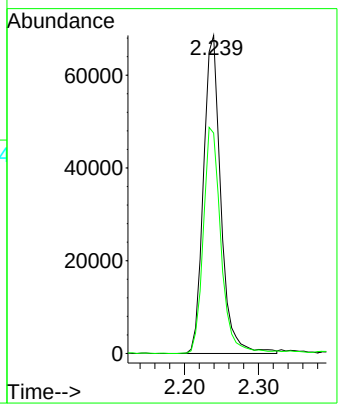




#13
Acrolein
Concen: 222.774 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 56 Resp: 111786

Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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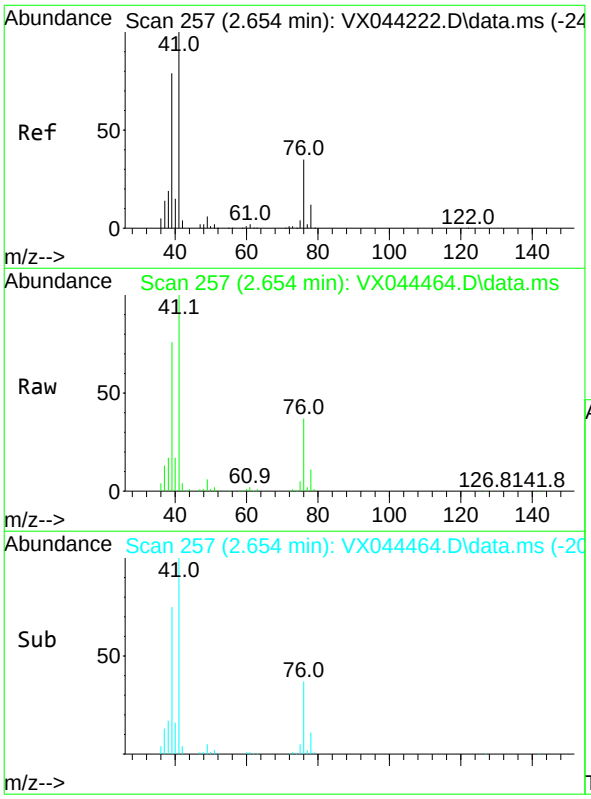
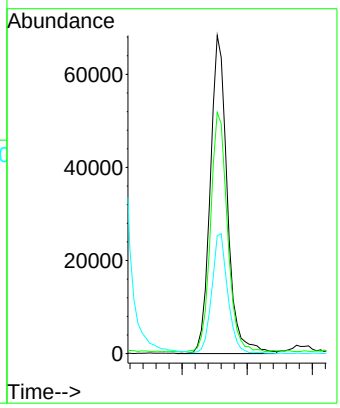
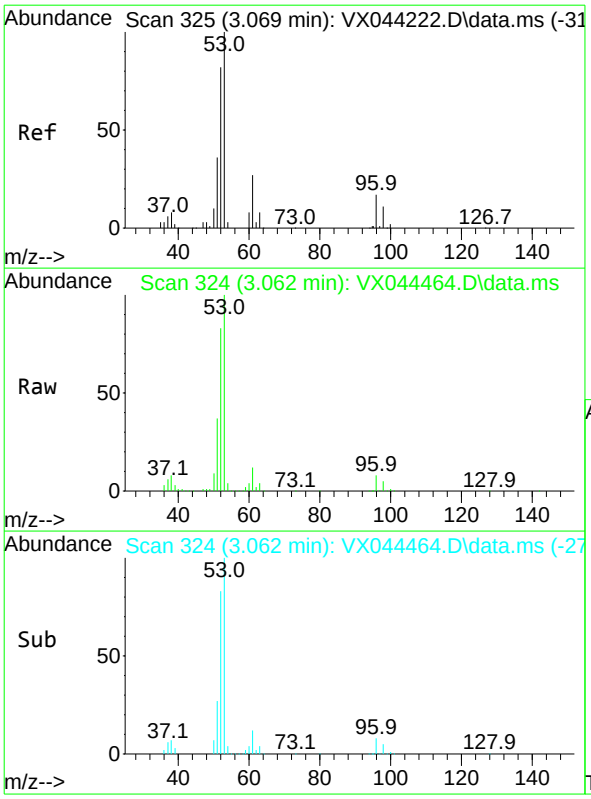


#14
Allyl chloride
Concen: 47.541 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 124514

Ion	Ratio	Lower	Upper
41	100		
39	74.1	61.9	92.9
76	35.4	27.4	41.2

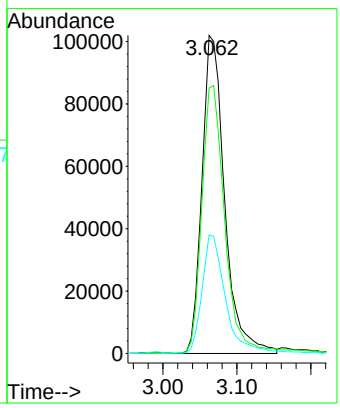




#15
Acrylonitrile
Concen: 226.182 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 53 Resp: 217189

Ion	Ratio	Lower	Upper
53	100		
52	86.6	67.4	101.0
51	38.5	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
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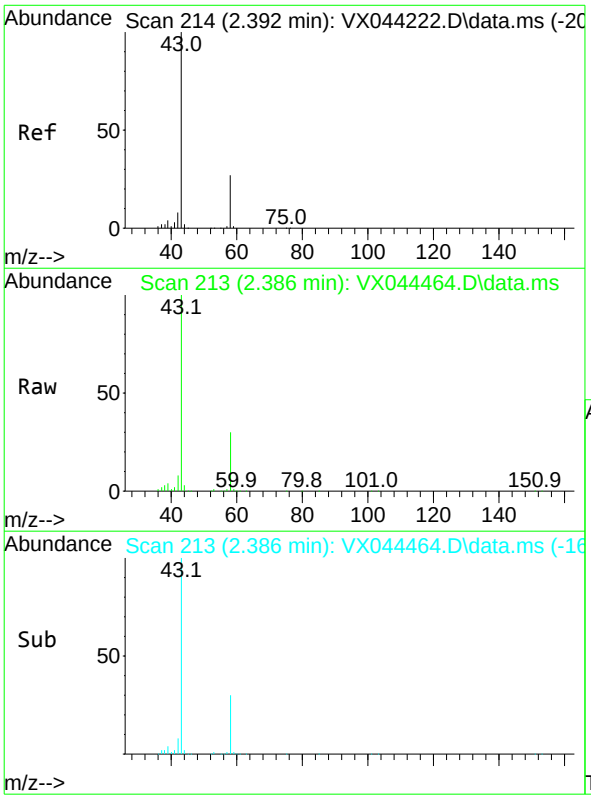
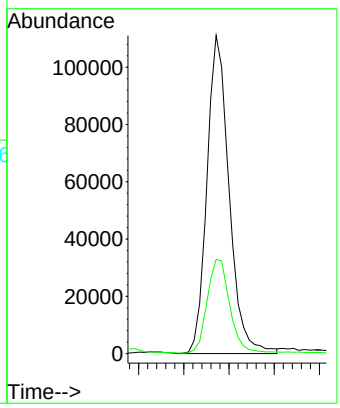
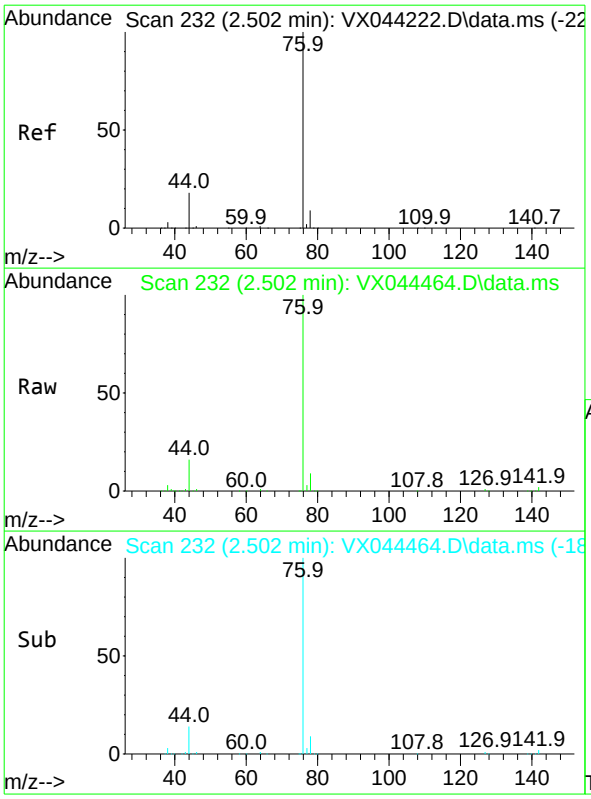


#16
Acetone
Concen: 188.692 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 189212

Ion	Ratio	Lower	Upper
43	100		
58	29.4	21.6	32.4

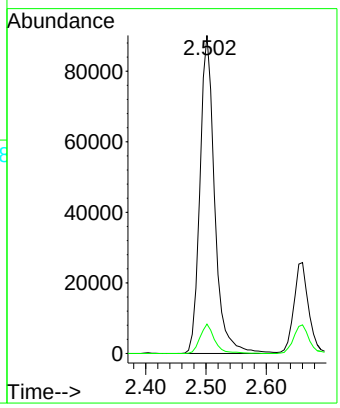




#17
Carbon Disulfide
Concen: 51.130 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 76 Resp: 152826

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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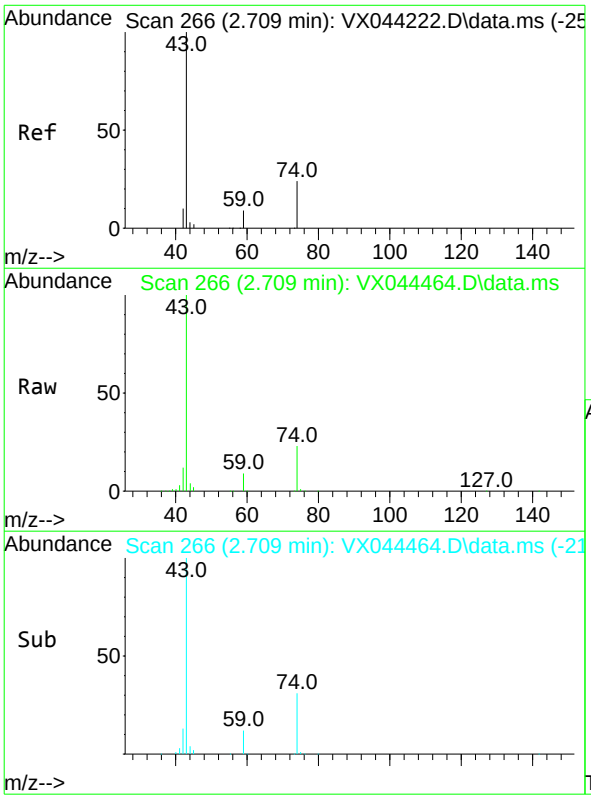
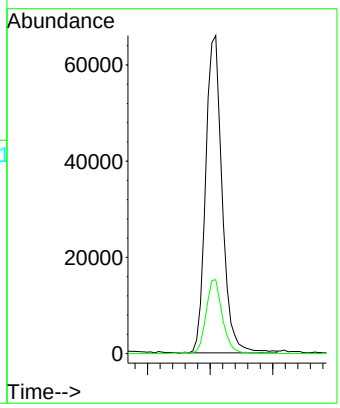
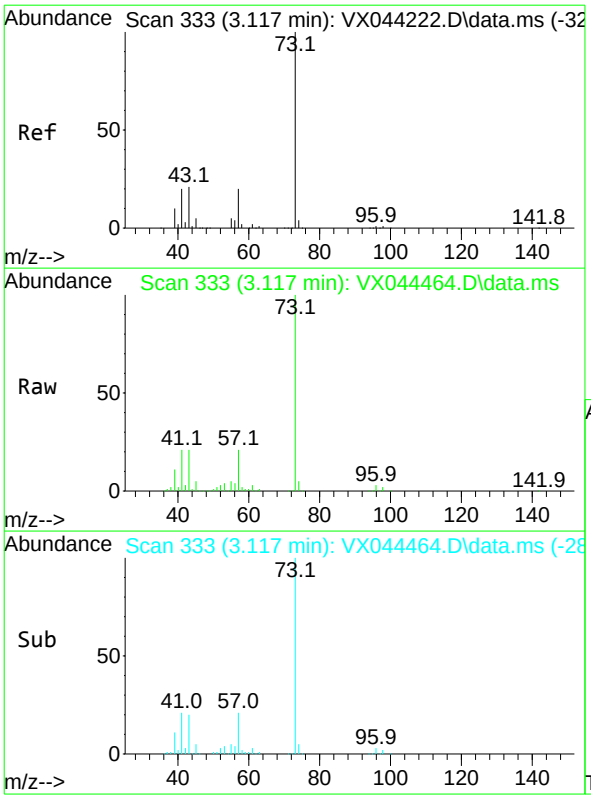


#18
Methyl Acetate
Concen: 46.678 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 120686

Ion	Ratio	Lower	Upper
43	100		
74	23.4	17.7	26.5

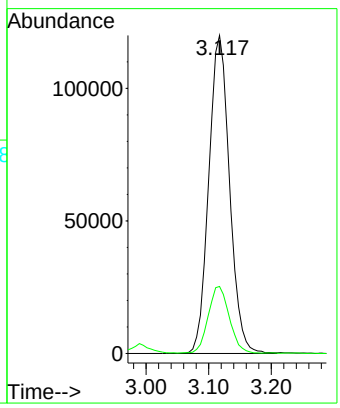




#19
Methyl tert-butyl Ether
Concen: 45.089 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 73 Resp: 276668

Ion	Ratio	Lower	Upper
73	100		
57	21.0	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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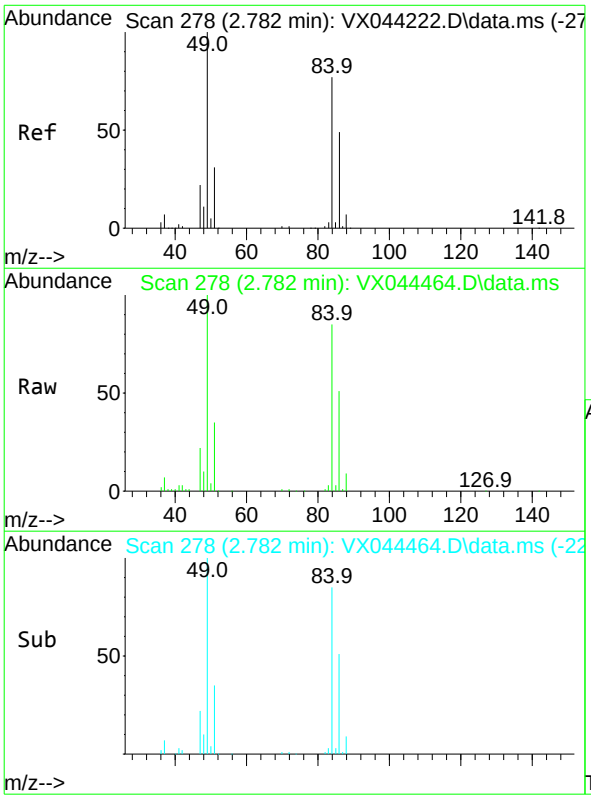
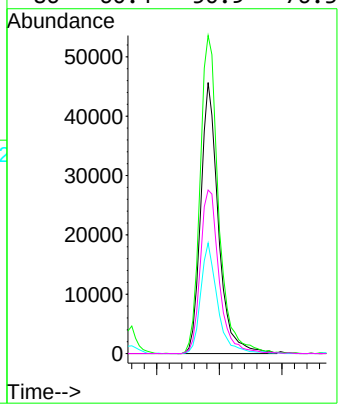
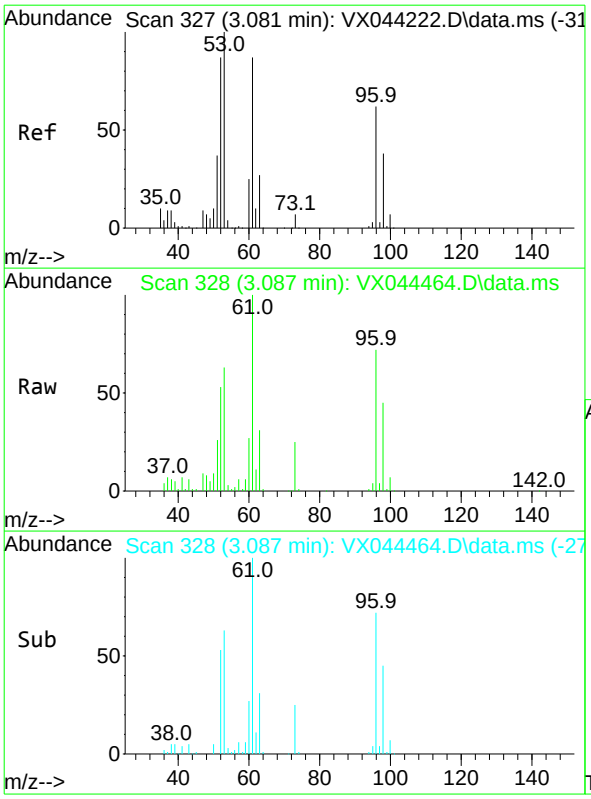


#20
Methylene Chloride
Concen: 47.401 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 84 Resp: 89276

Ion	Ratio	Lower	Upper
84	100		
49	117.4	104.2	156.4
51	40.8	32.2	48.4
86	60.4	50.9	76.3

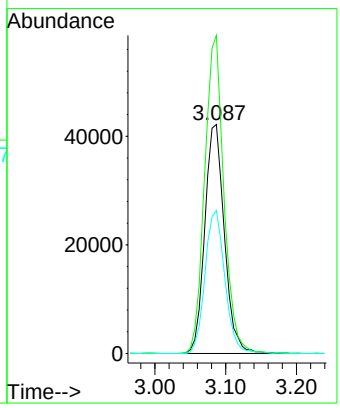




#21
trans-1,2-Dichloroethene
Concen: 48.517 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 81078

Ion	Ratio	Lower	Upper
96	100		
61	138.9	112.0	168.0
98	62.4	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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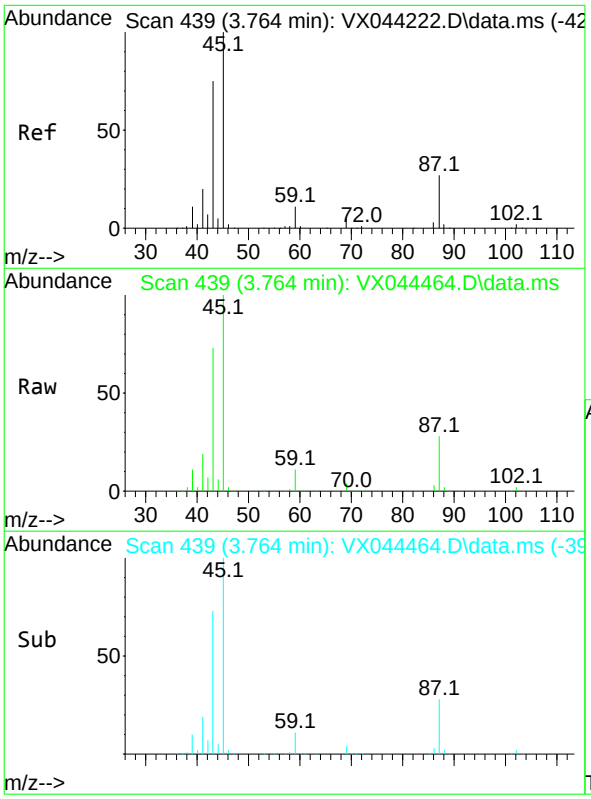
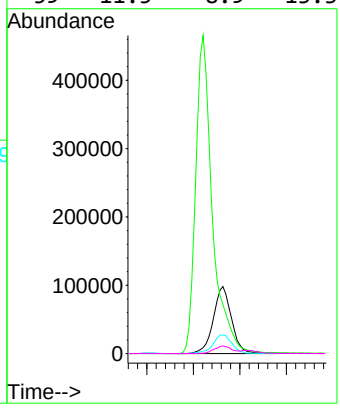
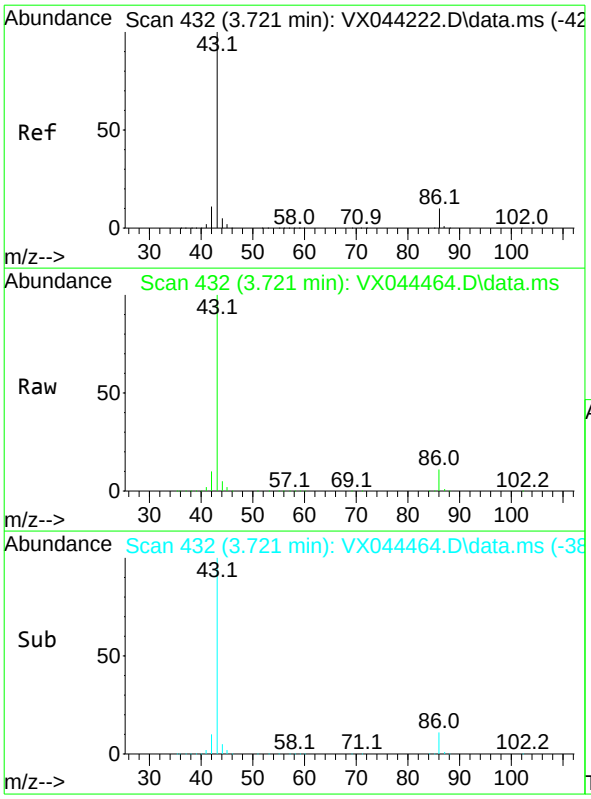


#22
Diisopropyl ether
Concen: 45.018 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 45 Resp: 265503

Ion	Ratio	Lower	Upper
45	100		
43	73.3	60.2	90.2
87	27.7	21.2	31.8
59	11.5	8.9	13.3

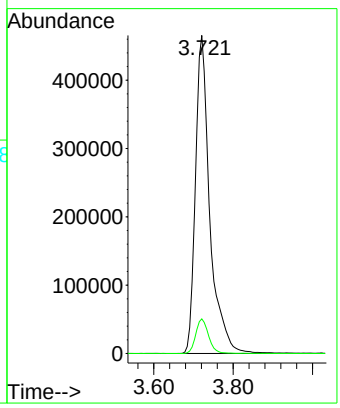




#23
Vinyl Acetate
Concen: 243.510 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 1167584

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
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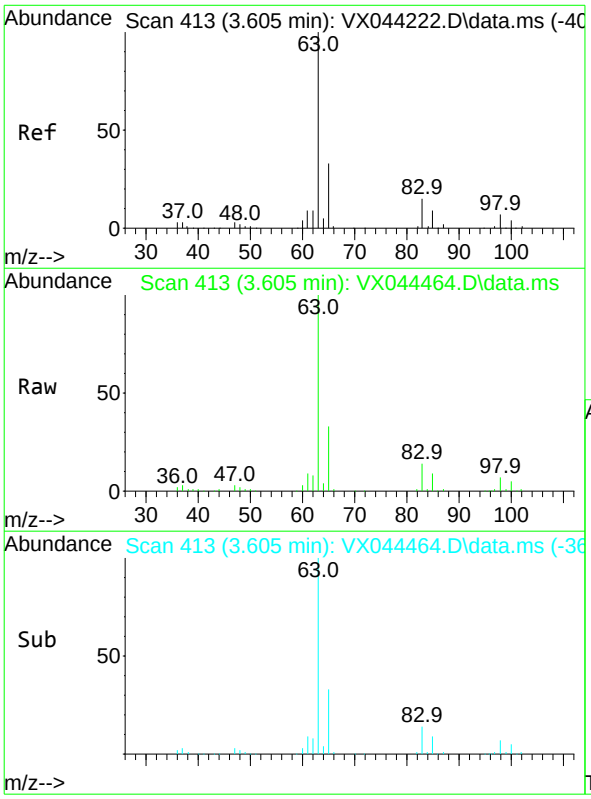
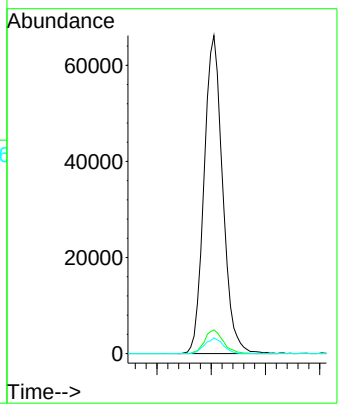
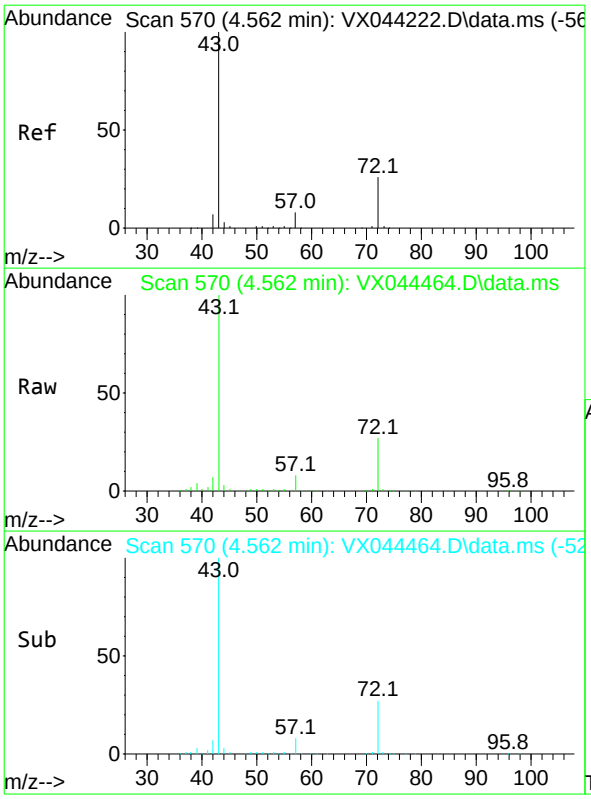


#24
1,1-Dichloroethane
Concen: 48.018 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 157858

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	5.0	2.1	6.3

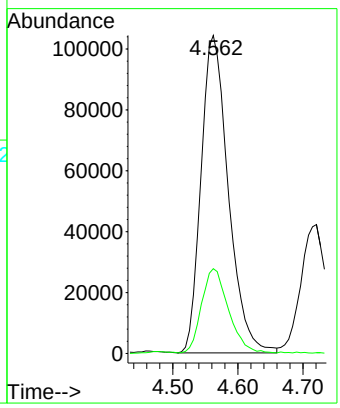




#25
2-Butanone
Concen: 213.237 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 303982

Ion	Ratio	Lower	Upper
43	100		
72	26.5	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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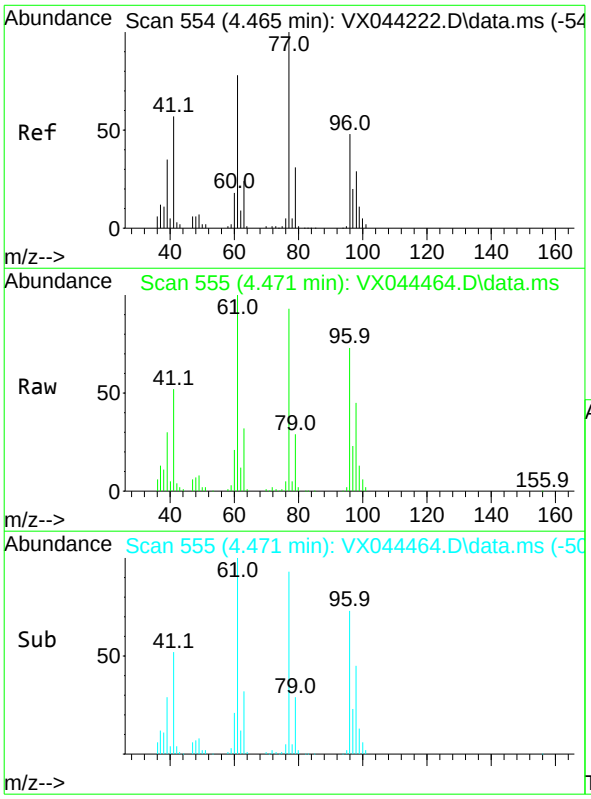
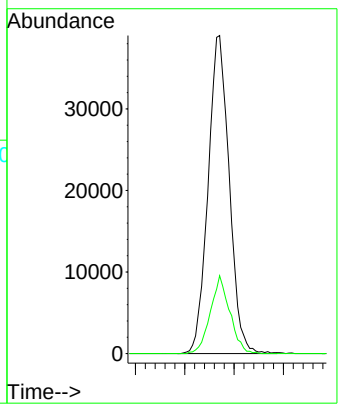
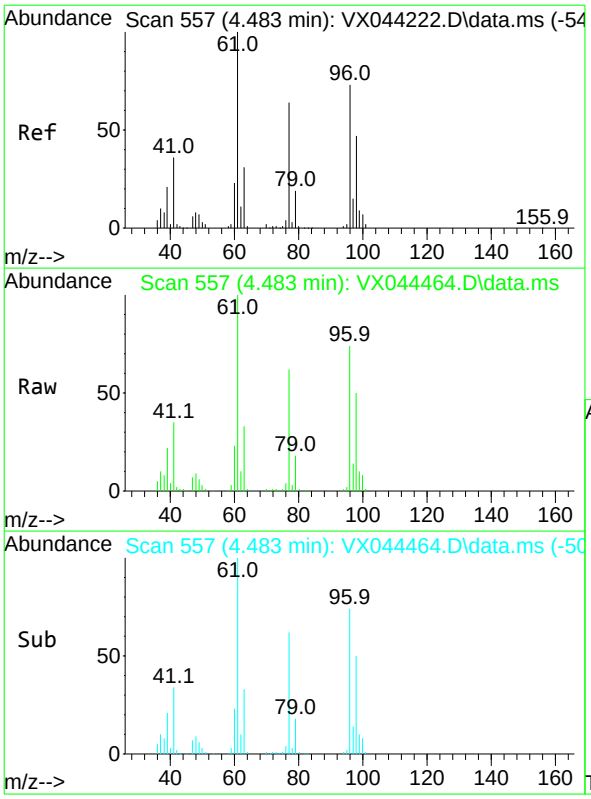


#26
2,2-Dichloropropane
Concen: 43.513 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 77 Resp: 116211

Ion	Ratio	Lower	Upper
77	100		
97	22.5	10.7	32.1

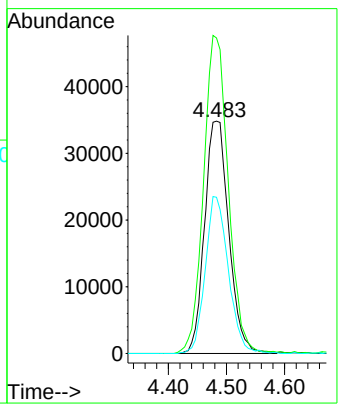




#27
cis-1,2-Dichloroethene
Concen: 47.511 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 100836

Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	299.0
98	64.5	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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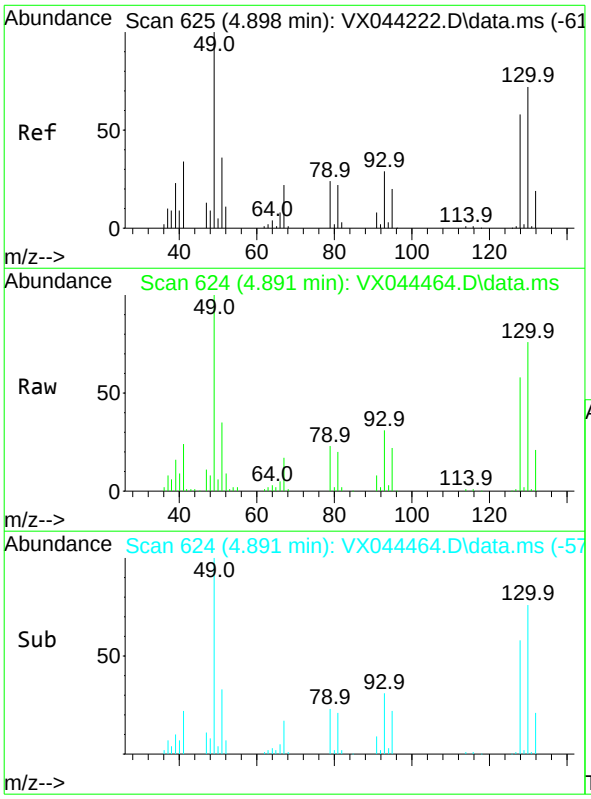
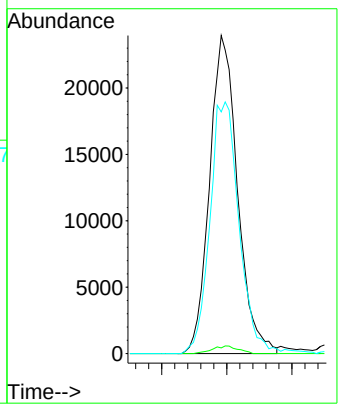
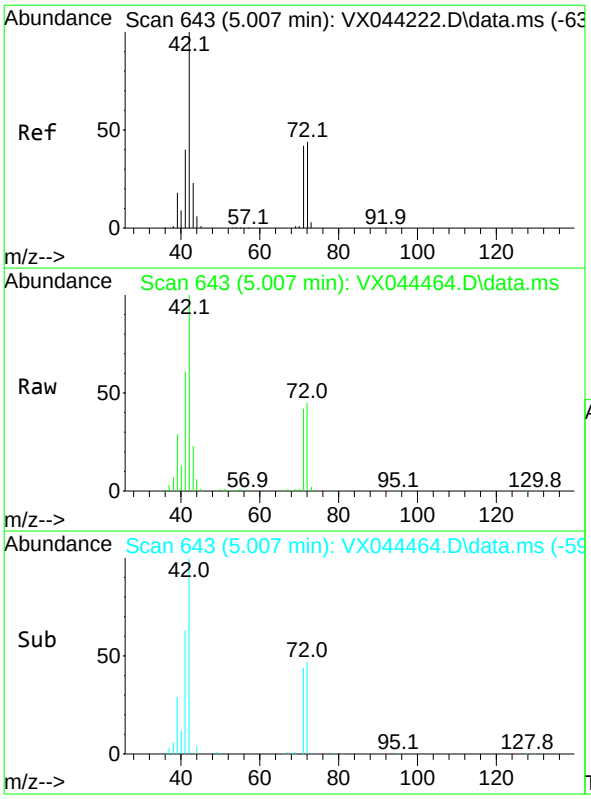


#28
Bromochloromethane
Concen: 44.369 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 49 Resp: 71526

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.1	62.1	93.1

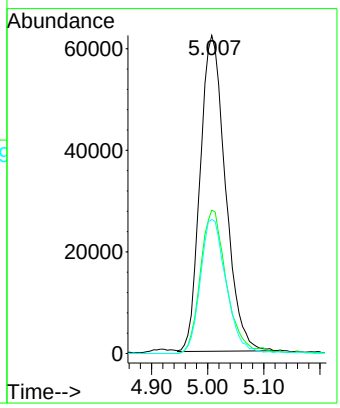




#29
Tetrahydrofuran
Concen: 212.557 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 42 Resp: 194494

Ion	Ratio	Lower	Upper
42	100		
72	46.1	37.0	55.6
71	43.4	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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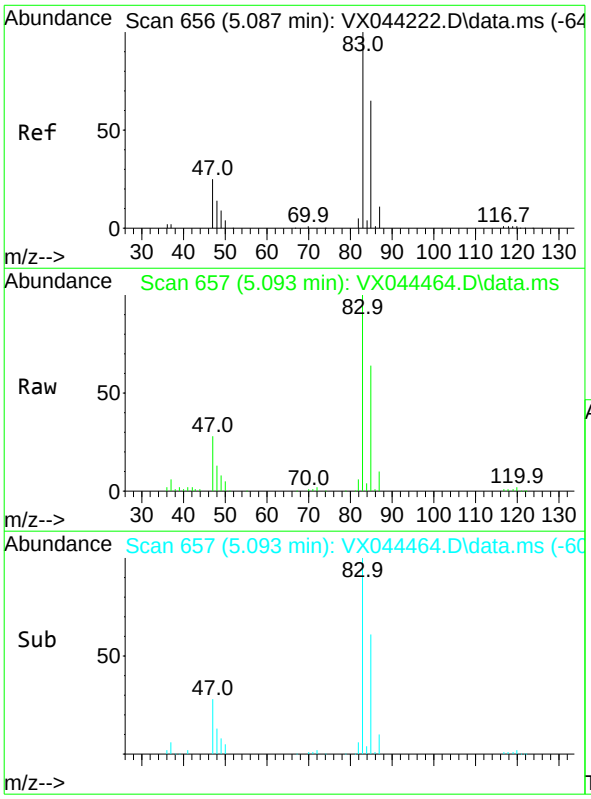
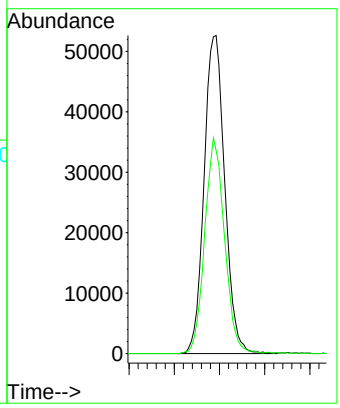
Supervised By :Mahesh Dadoda 12/24/2024

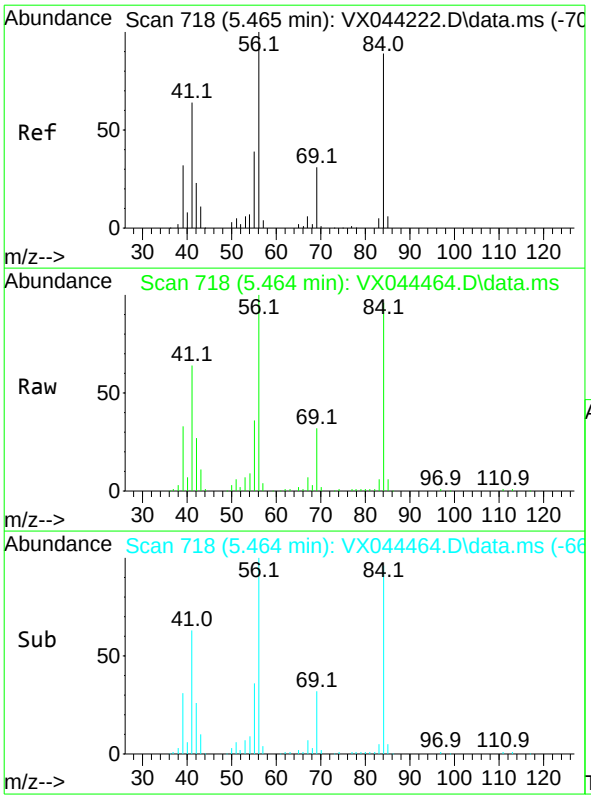


#30
Chloroform
Concen: 45.189 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 166909

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.6	77.4





#31
Cyclohexane
Concen: 46.033 ug/l
RT: 5.464 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 56 Resp: 122203

Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.7	37.1
84	93.5	71.0	106.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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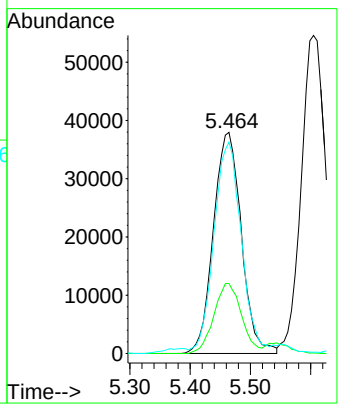
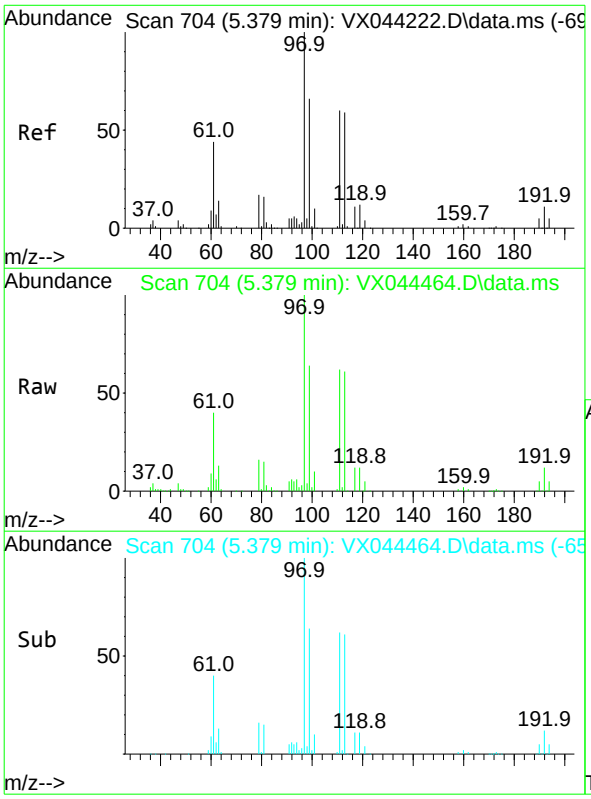
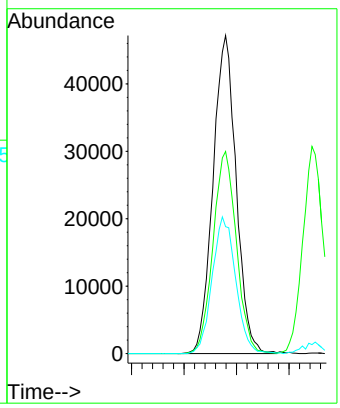


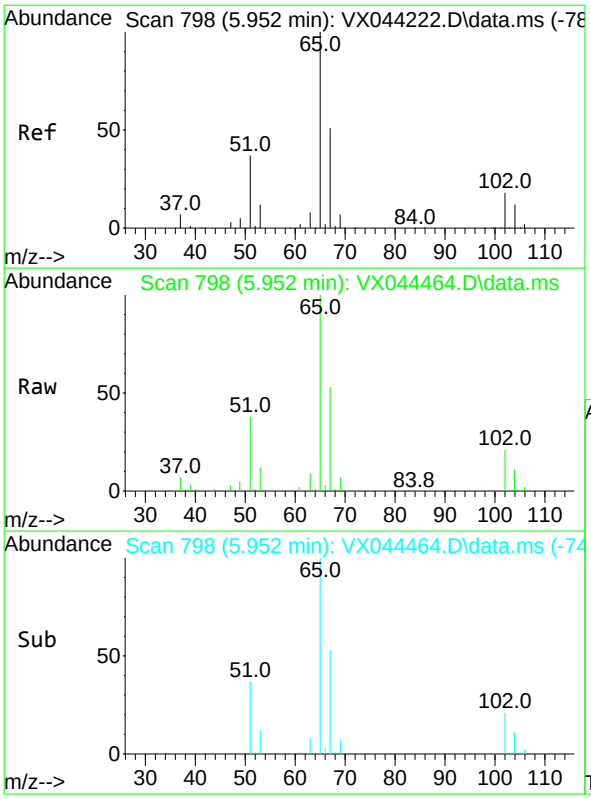


#32
1,1,1-Trichloroethane
Concen: 47.095 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 97 Resp: 144394

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	43.7	35.2	52.8

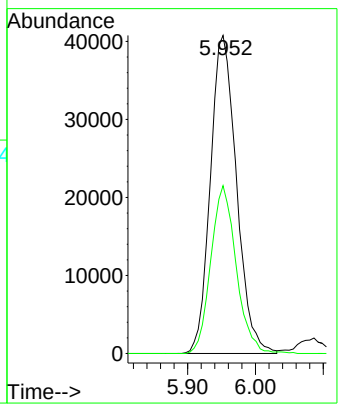




#33
1,2-Dichloroethane-d4
Concen: 44.357 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 65 Resp: 109103

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6



Instrument :
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ClientSampleId :
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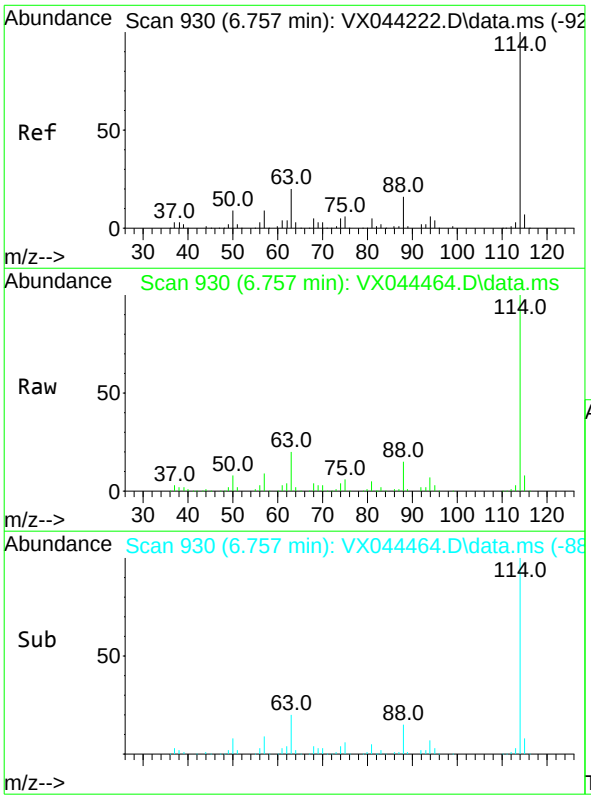
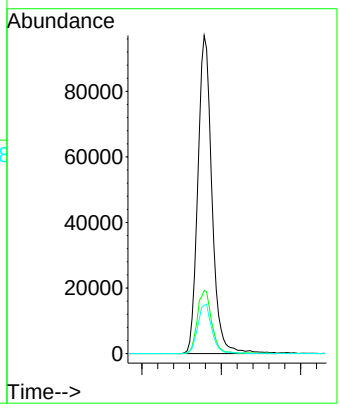
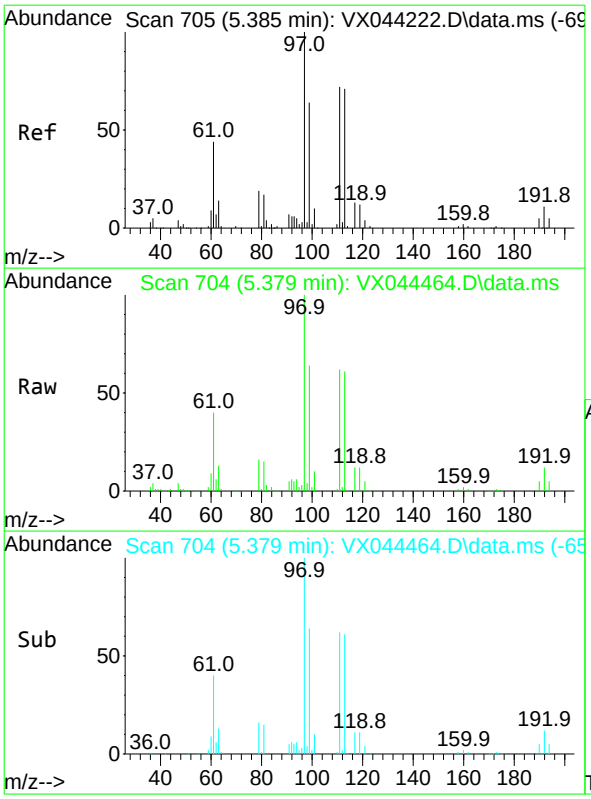


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:114 Resp: 239068

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.6
88	15.2	0.0	31.8

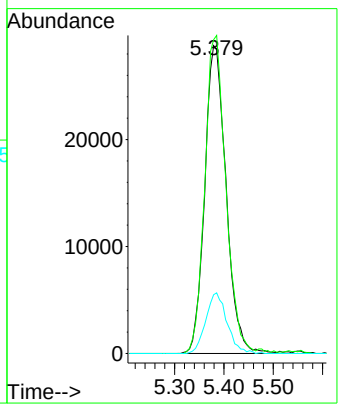




#35
Dibromofluoromethane
Concen: 52.347 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:113 Resp: 86675

Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.4	120.6
192	19.6	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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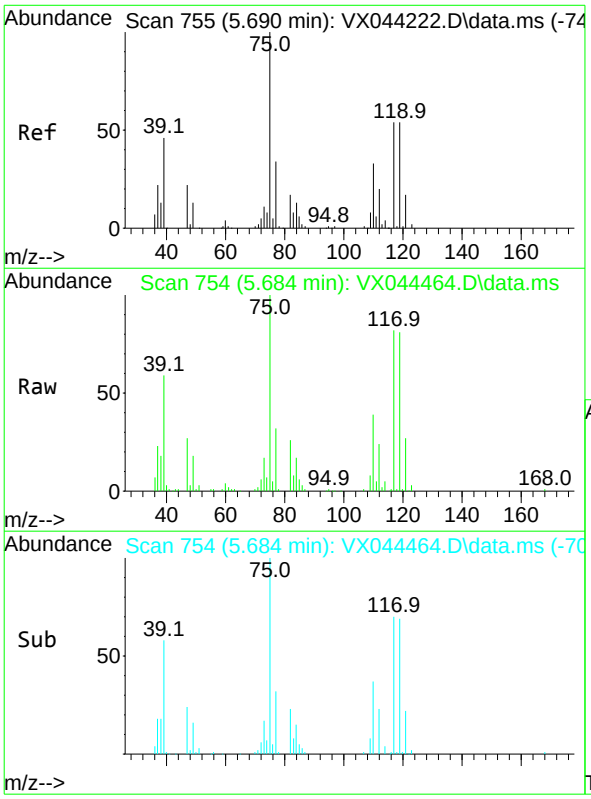
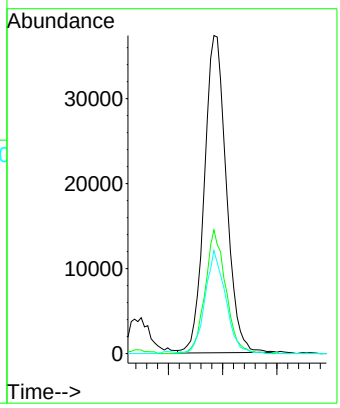
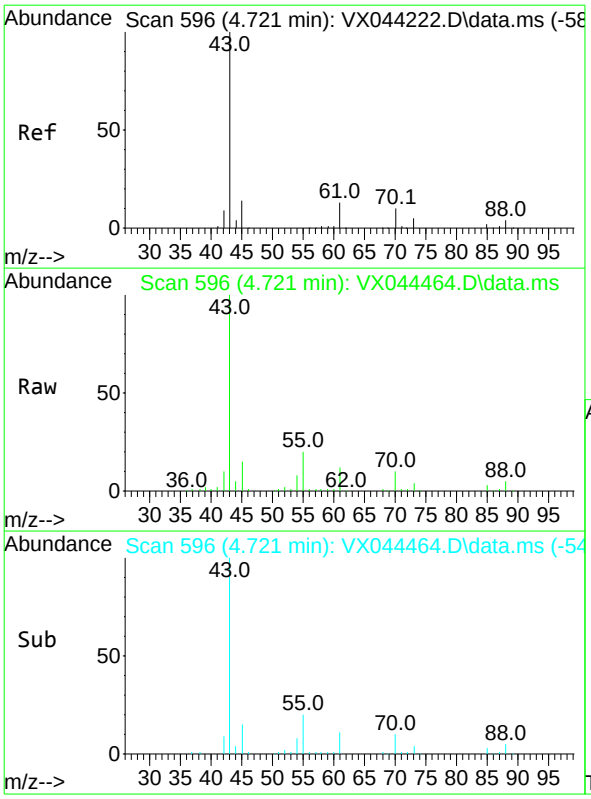


#36
1,1-Dichloropropene
Concen: 49.017 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 104911

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.3	51.7
77	30.4	25.4	38.0

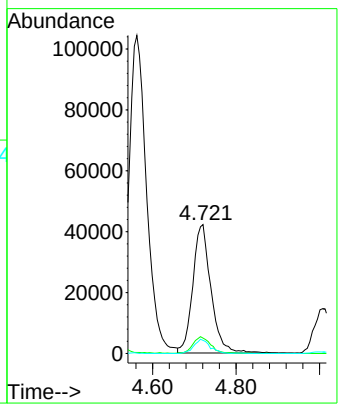




#37
Ethyl Acetate
Concen: 48.180 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 127468

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.7	7.7	11.5



Instrument :
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ClientSampleId :
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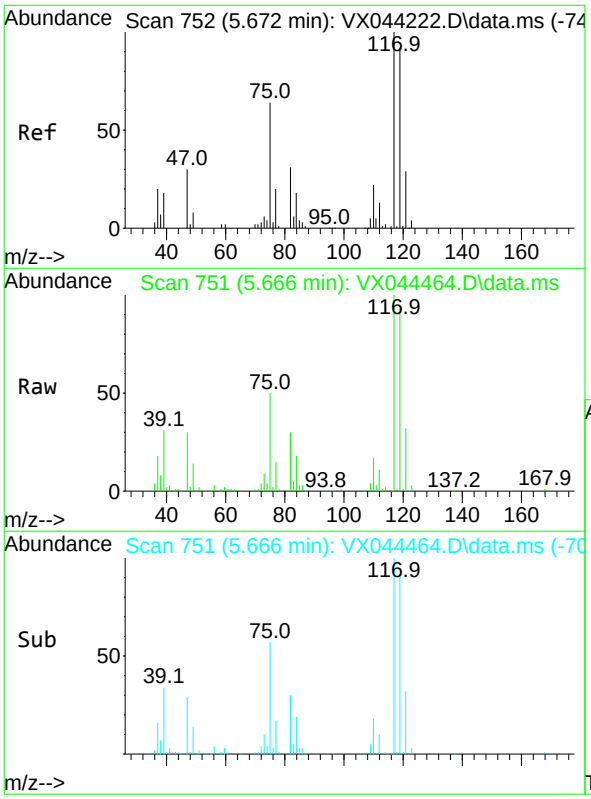
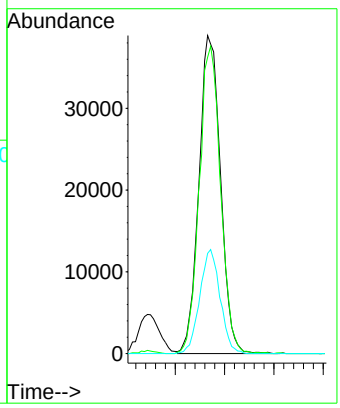
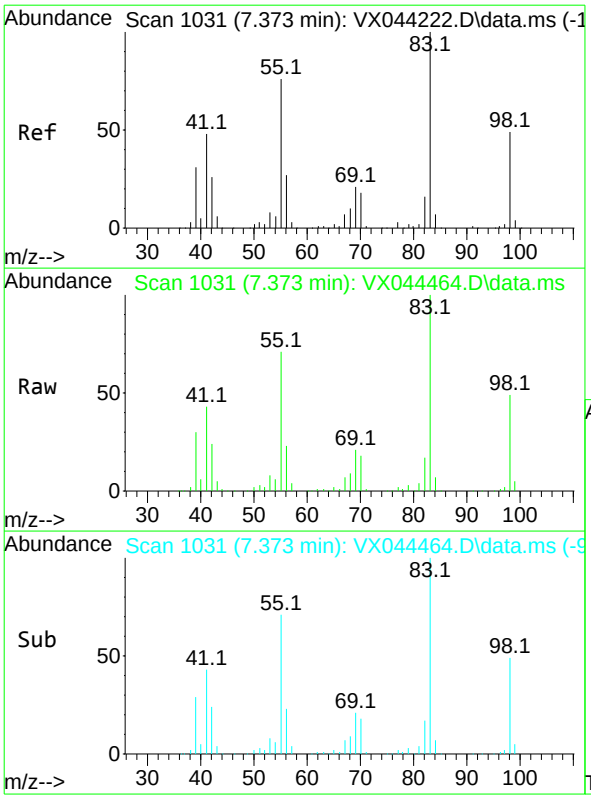


#38
Carbon Tetrachloride
Concen: 51.365 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 118357

Ion	Ratio	Lower	Upper
117	100		
119	93.0	74.2	111.4
121	31.5	23.0	34.6

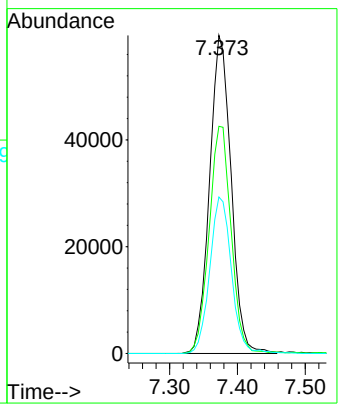




#39
Methylcyclohexane
Concen: 51.370 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 131438

Ion	Ratio	Lower	Upper
83	100		
55	71.4	60.7	91.1
98	49.2	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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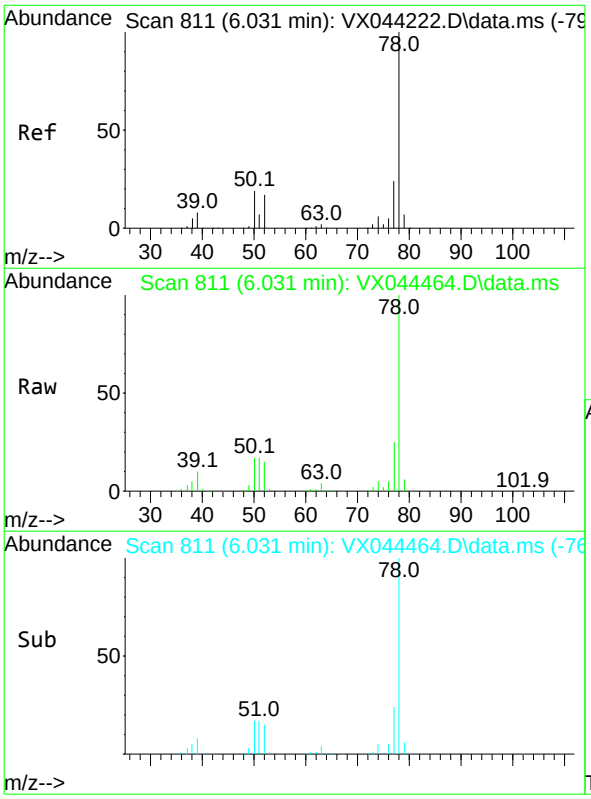
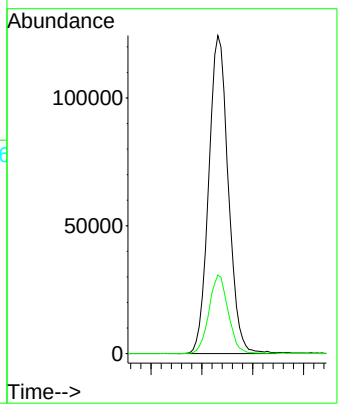
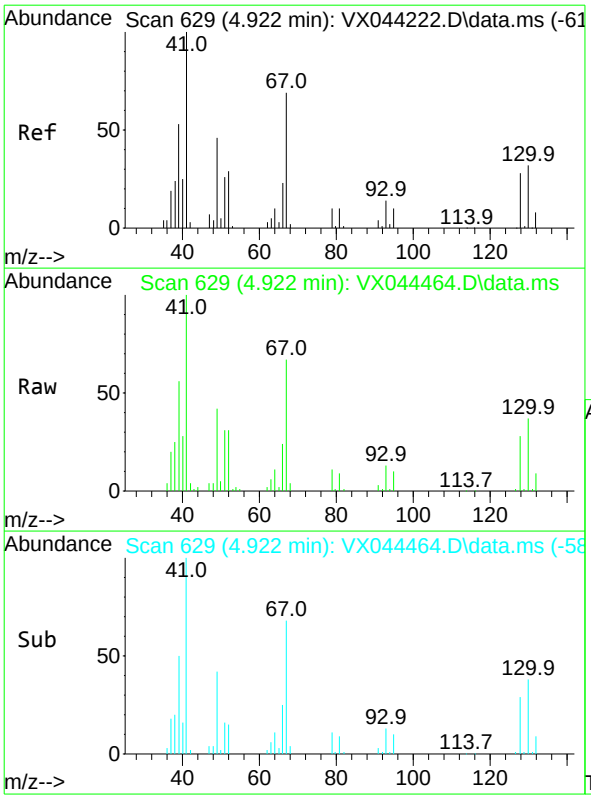


#40
Benzene
Concen: 51.262 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 78 Resp: 333117

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9

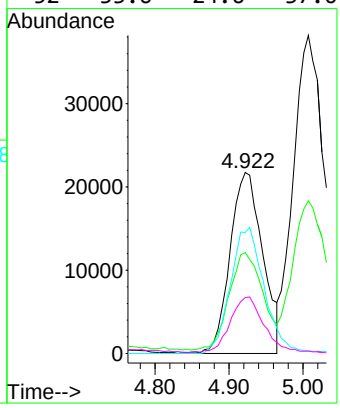




#41
Methacrylonitrile
Concen: 47.401 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 66592

Ion	Ratio	Lower	Upper
41	100		
39	55.8	44.2	66.4
67	72.7	57.2	85.8
52	33.6	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
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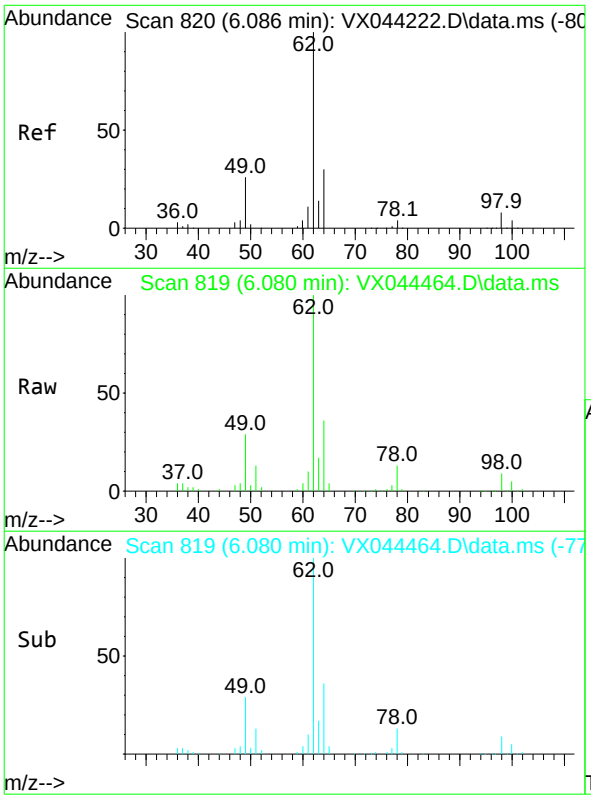
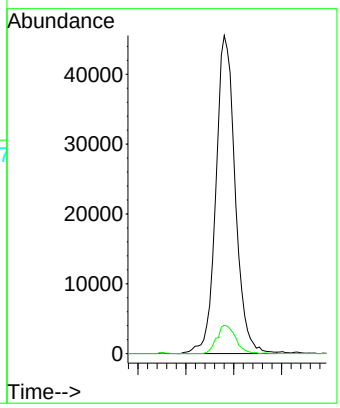
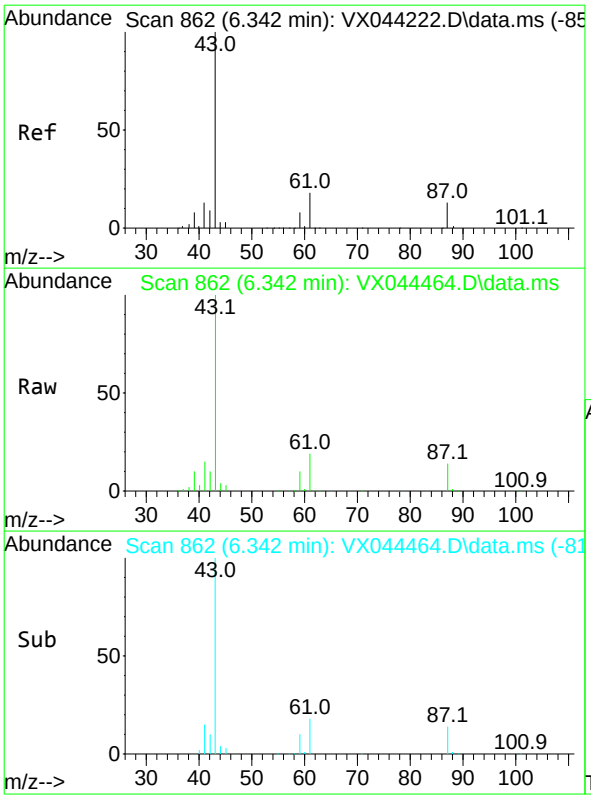


#42
1,2-Dichloroethane
Concen: 47.680 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 127634

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8

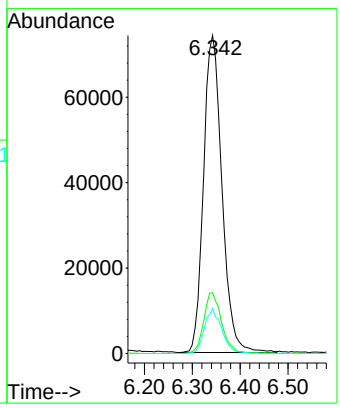




#43
Isopropyl Acetate
Concen: 48.047 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 198680

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.2	21.2
87	13.3	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
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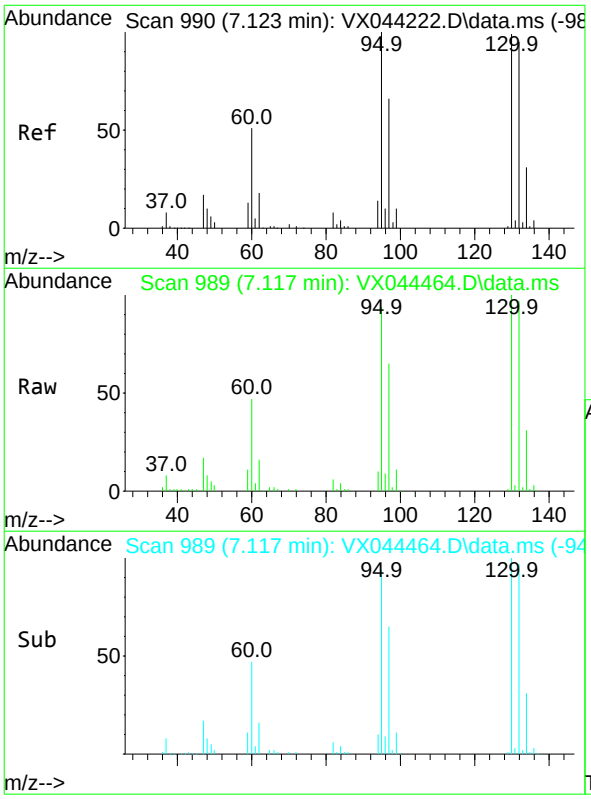
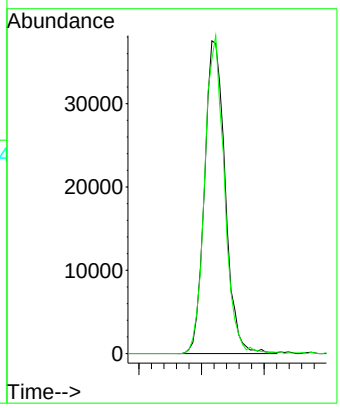
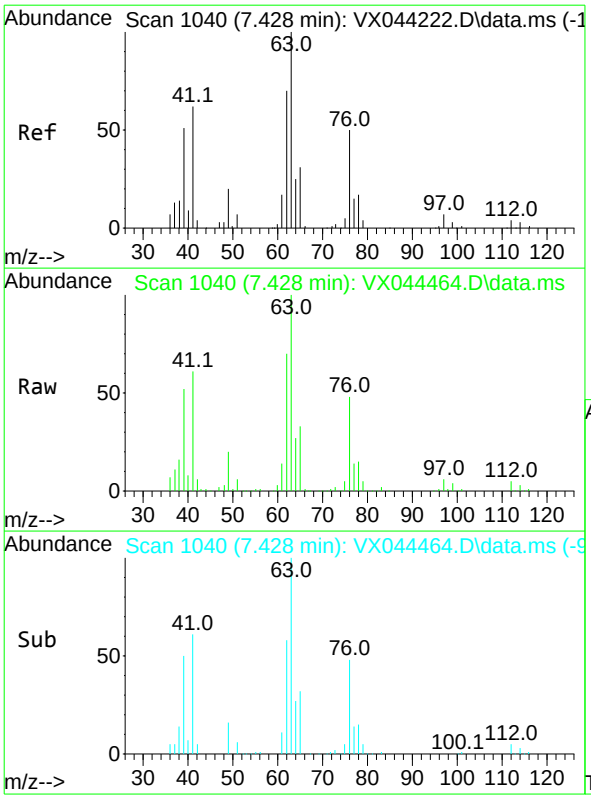


#44
Trichloroethene
Concen: 53.083 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:130 Resp: 86021

Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	201.4

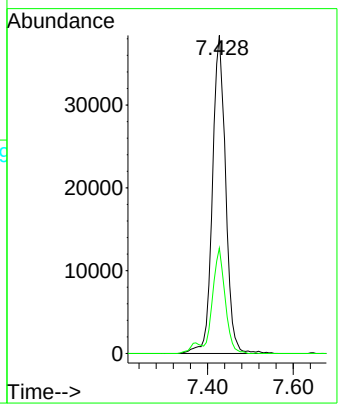




#45
1,2-Dichloropropane
Concen: 49.622 ug/l
RT: 7.428 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 82383

Ion	Ratio	Lower	Upper
63	100		
65	33.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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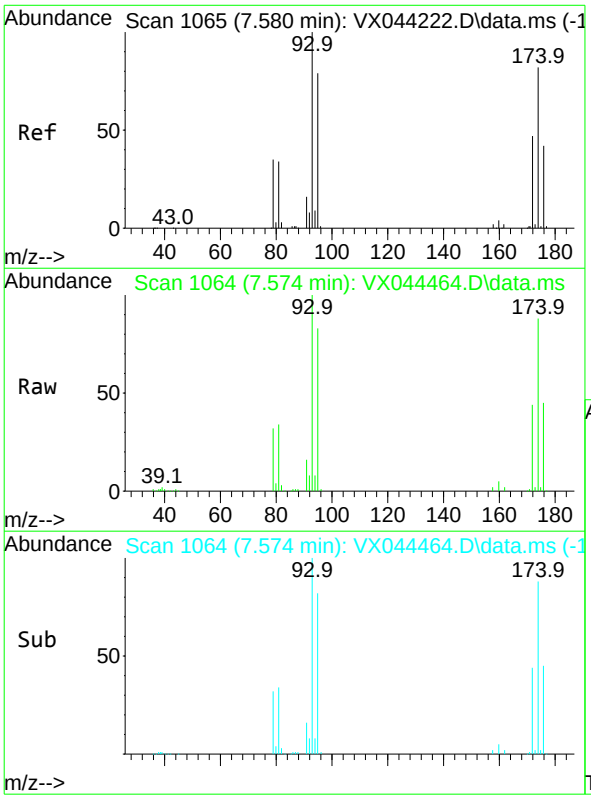
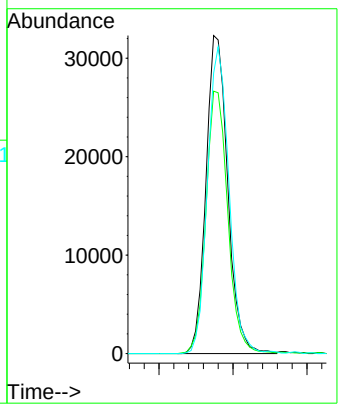
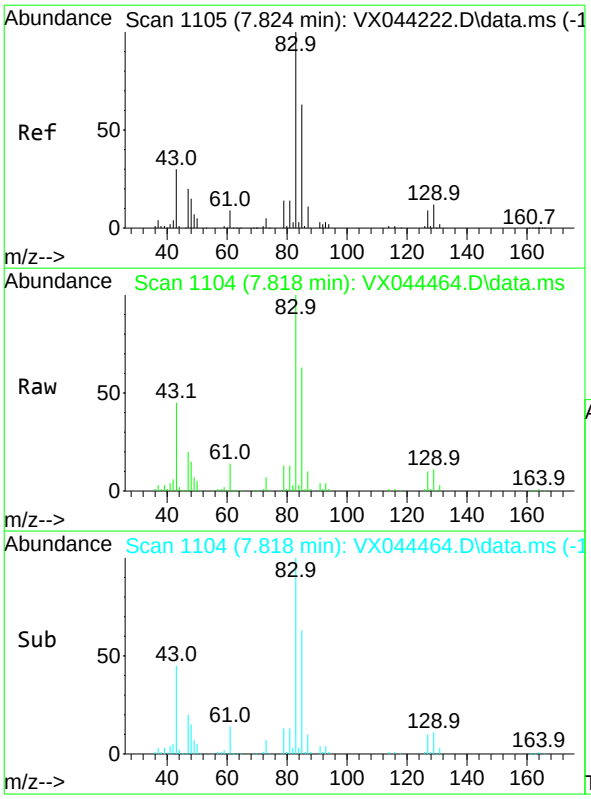


#46
Dibromomethane
Concen: 51.184 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 93 Resp: 65924

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.4	98.2
174	95.5	67.9	101.9

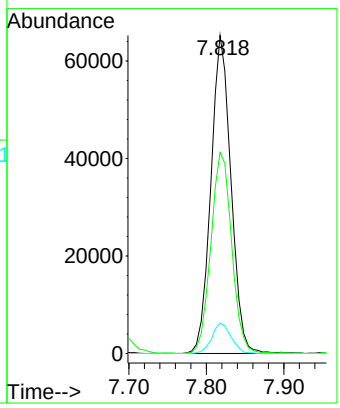




#47
Bromodichloromethane
Concen: 52.723 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 117278

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	9.6	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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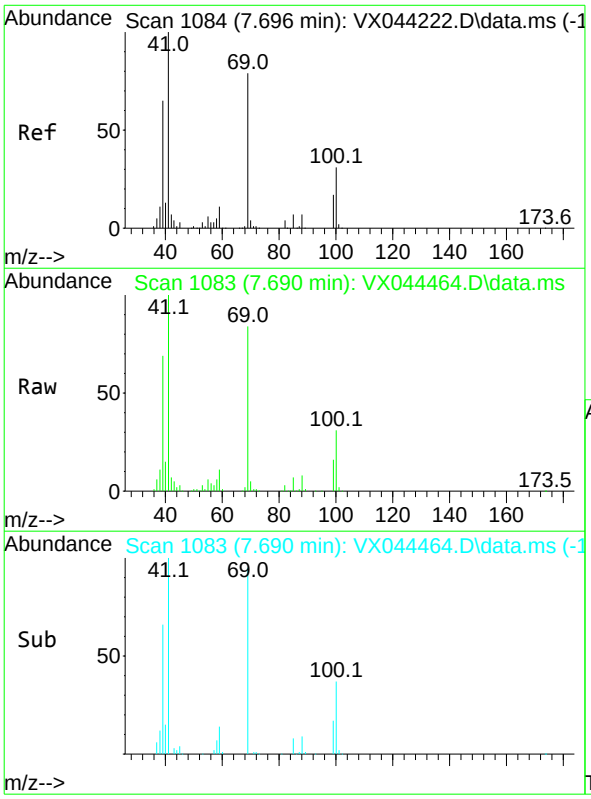
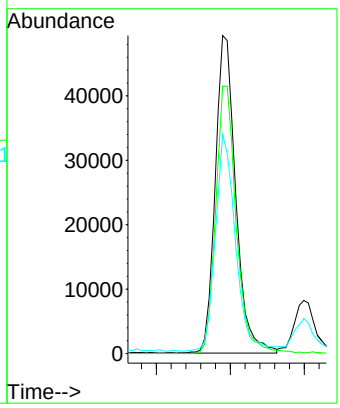
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

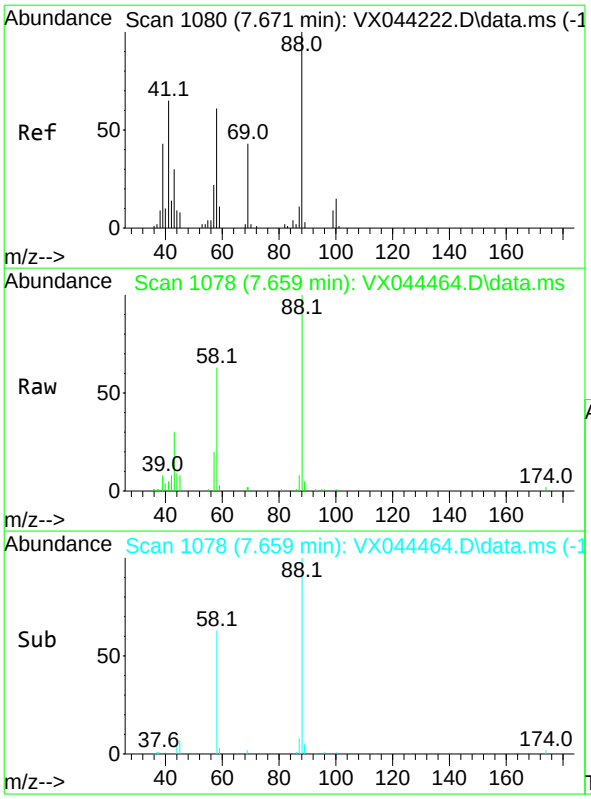


#48
Methyl methacrylate
Concen: 47.115 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 94575

Ion	Ratio	Lower	Upper
41	100		
69	84.6	62.4	93.6
39	66.9	53.3	79.9





#49
1,4-Dioxane
Concen: 1003.530 ug/l
RT: 7.659 min Scan# 10
Delta R.T. -0.012 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 88 Resp: 33398

Ion	Ratio	Lower	Upper
88	100		
43	27.8	27.1	40.7
58	48.6	41.0	61.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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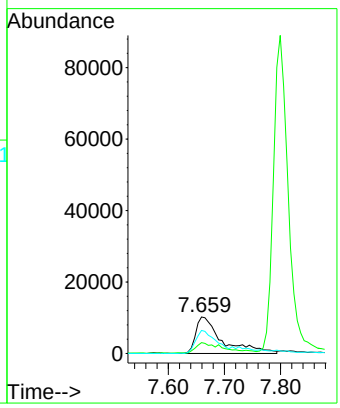
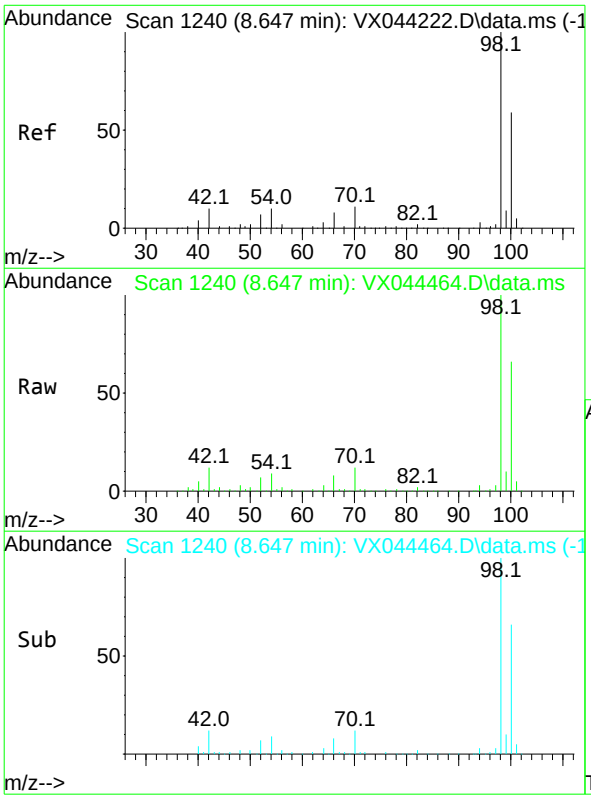
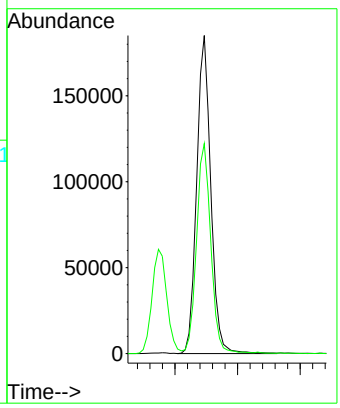


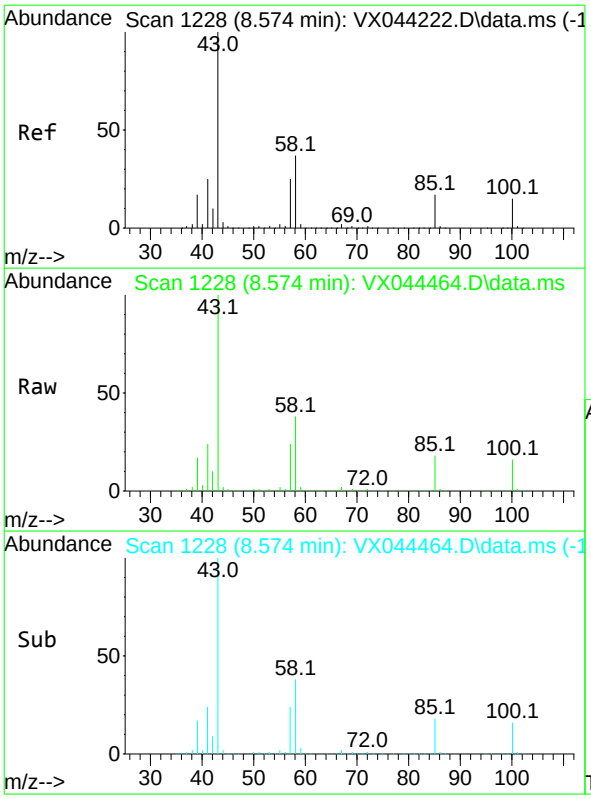


#50
Toluene-d8
Concen: 51.923 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 98 Resp: 290046

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.5	77.3

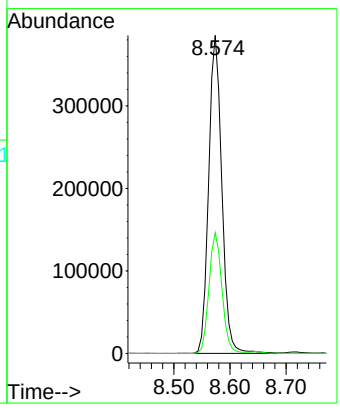




#51
4-Methyl-2-Pentanone
Concen: 235.413 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 625919

Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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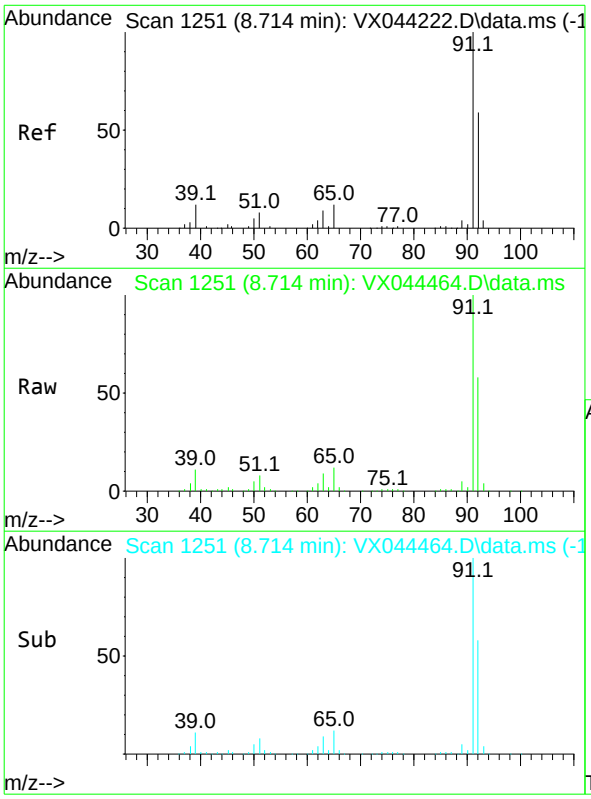
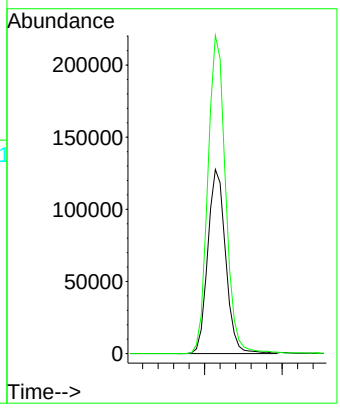
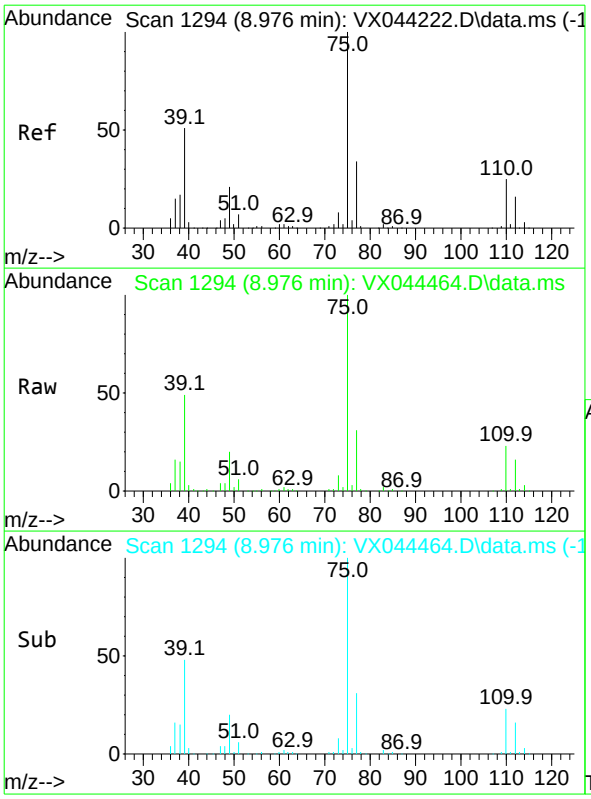


#52
Toluene
Concen: 50.071 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 92 Resp: 204328

Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6

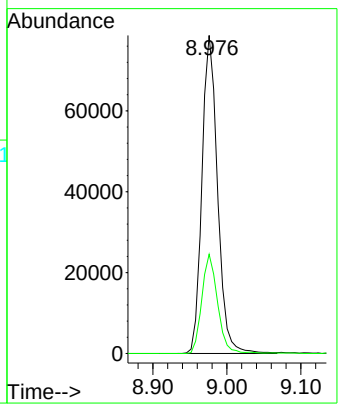




#53
t-1,3-Dichloropropene
Concen: 48.388 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 115268

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8



Instrument :
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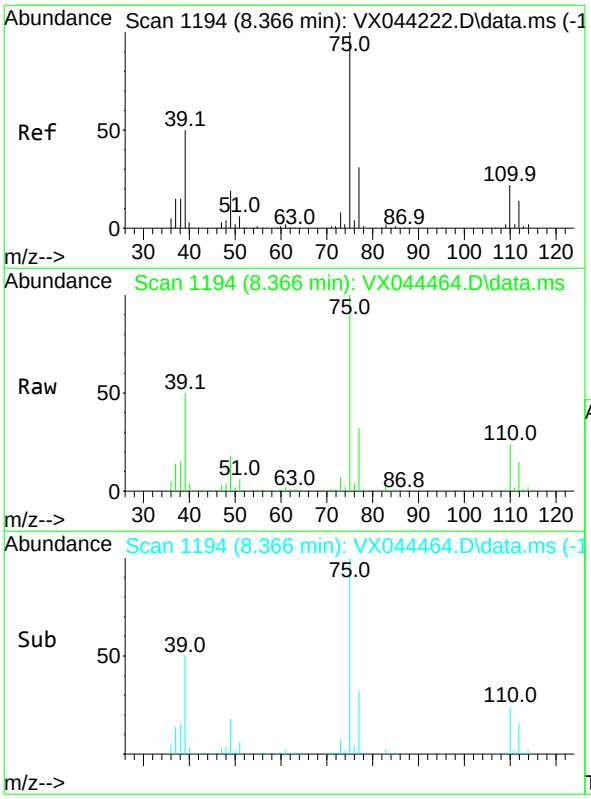
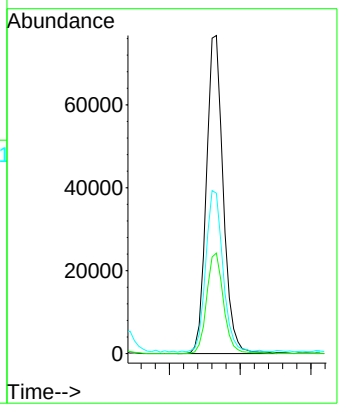
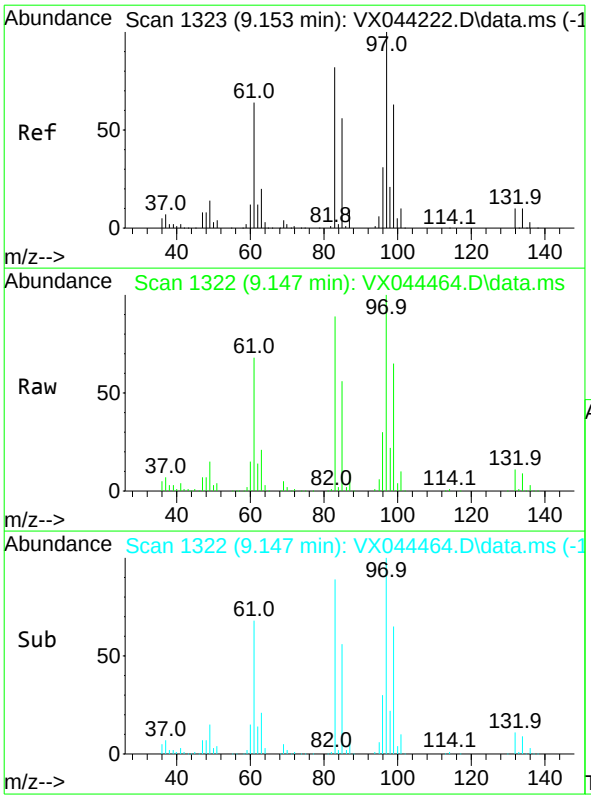


#54
cis-1,3-Dichloropropene
Concen: 52.437 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 127004

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.7	37.1
39	50.0	40.3	60.5

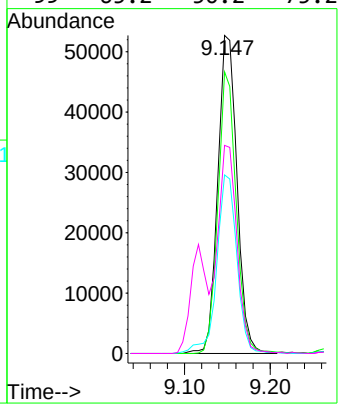




#55
1,1,2-Trichloroethane
Concen: 50.814 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 97 Resp: 82378

Ion	Ratio	Lower	Upper
97	100		
83	88.5	65.3	97.9
85	56.0	44.6	67.0
99	65.2	50.2	75.2



Instrument :
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ClientSampleId :
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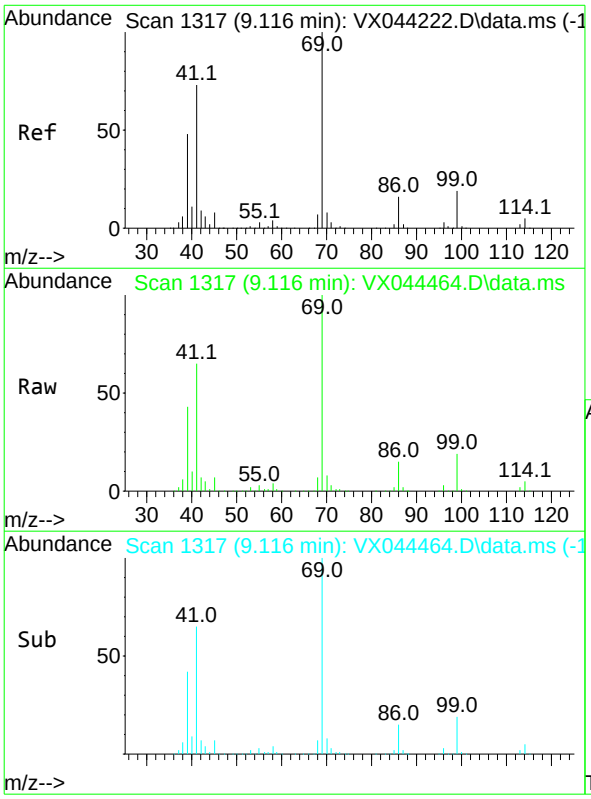
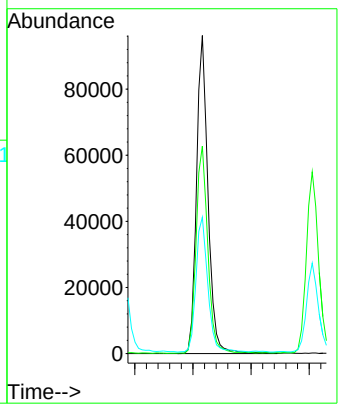
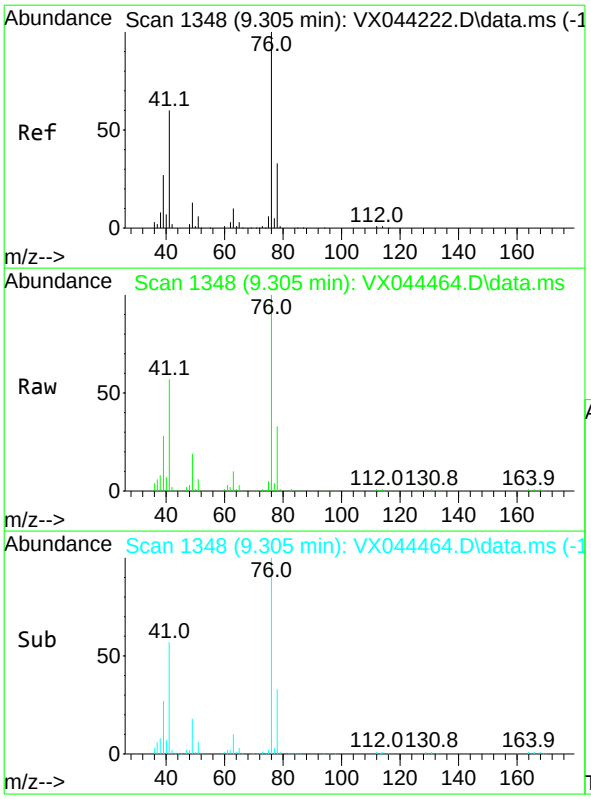


#56
Ethyl methacrylate
Concen: 51.516 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 69 Resp: 131845

Ion	Ratio	Lower	Upper
69	100		
41	66.5	56.6	85.0
39	43.7	37.4	56.0

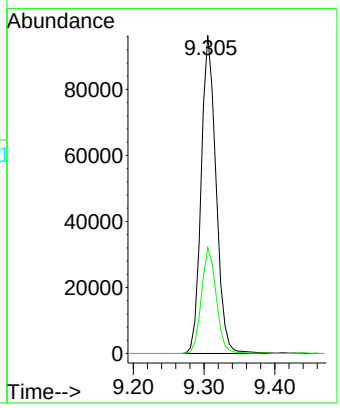




#57
1,3-Dichloropropane
Concen: 49.799 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 76 Resp: 140522

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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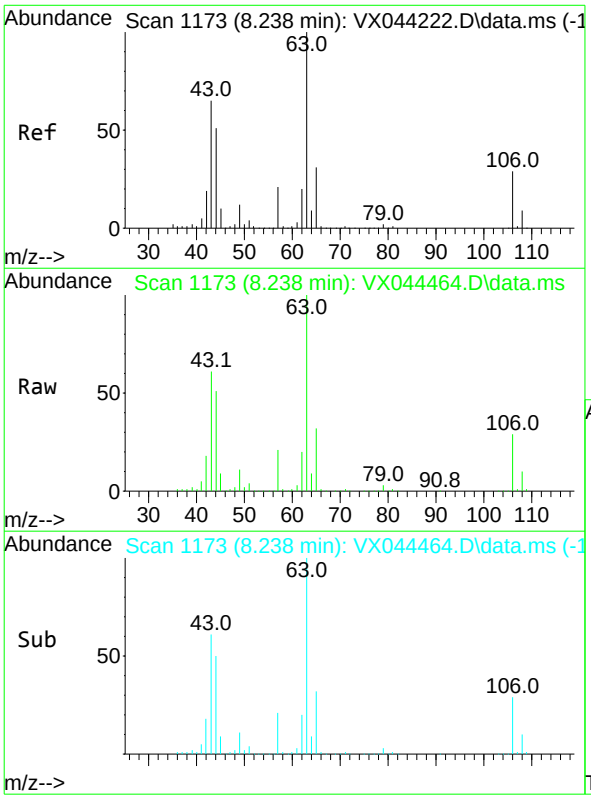
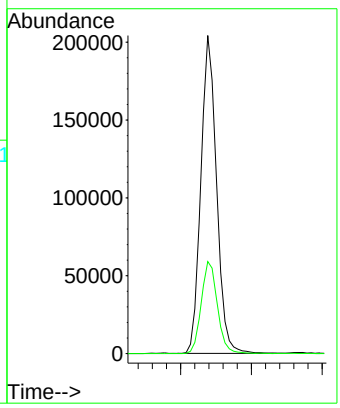
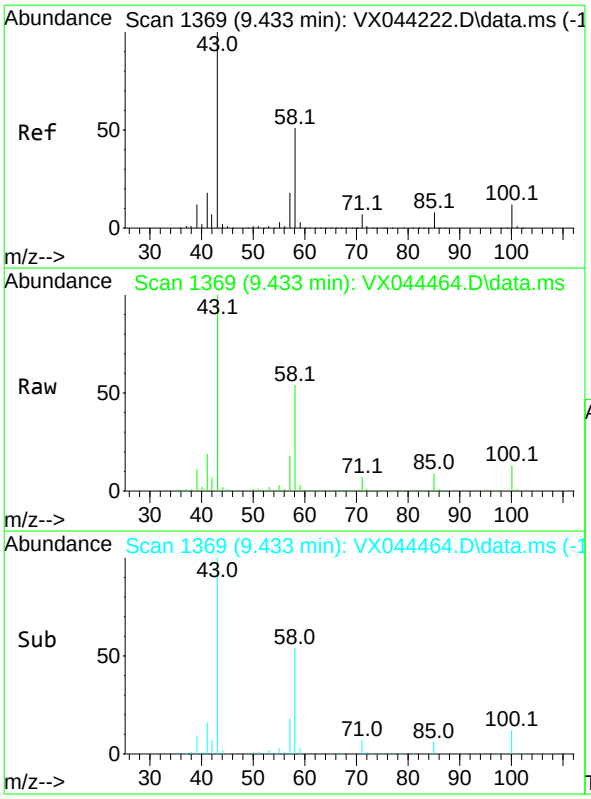


#58
2-Chloroethyl Vinyl ether
Concen: 243.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 314516

Ion	Ratio	Lower	Upper
63	100		
106	29.8	22.8	34.2

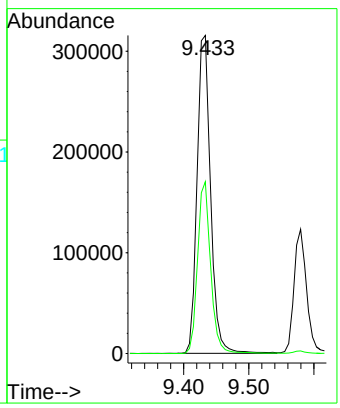




#59
2-Hexanone
Concen: 236.376 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 454909

Ion	Ratio	Lower	Upper
43	100		
58	52.3	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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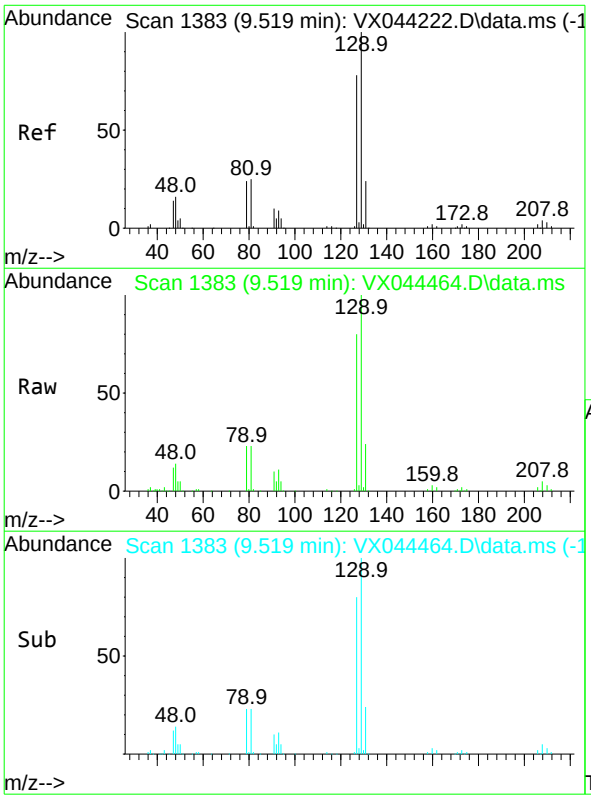
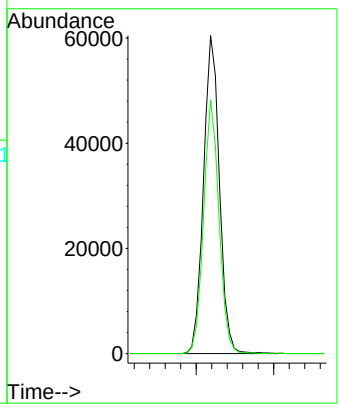
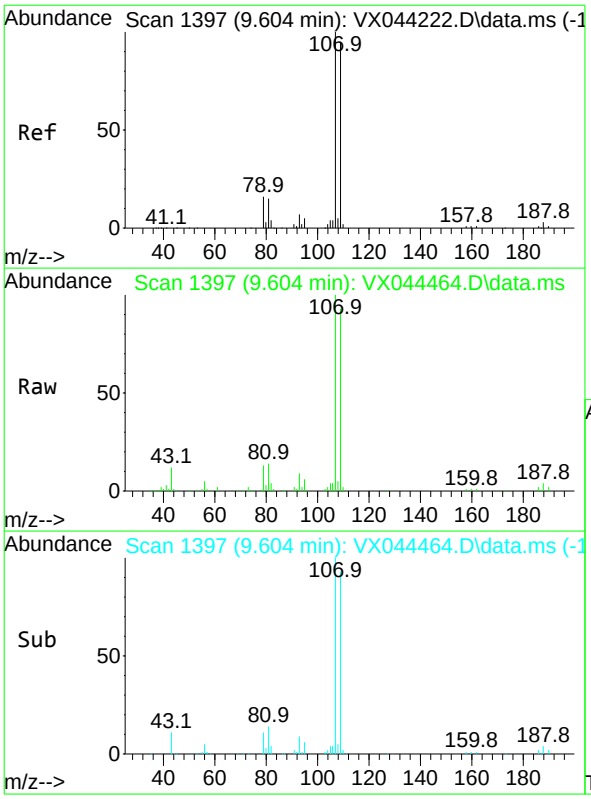


#60
Dibromochloromethane
Concen: 50.206 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:129 Resp: 86219

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.5	115.3

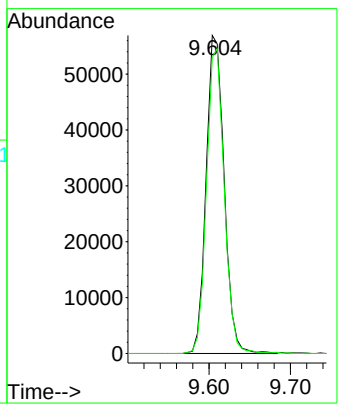




#61
1,2-Dibromoethane
Concen: 53.053 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:107 Resp: 87547

Ion	Ratio	Lower	Upper
107	100		
109	94.1	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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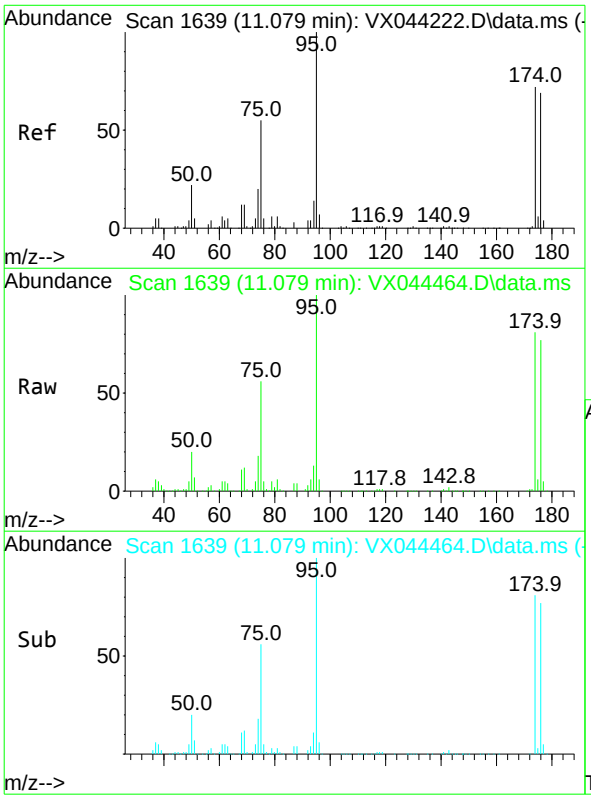
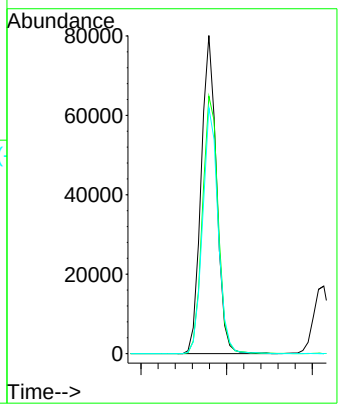
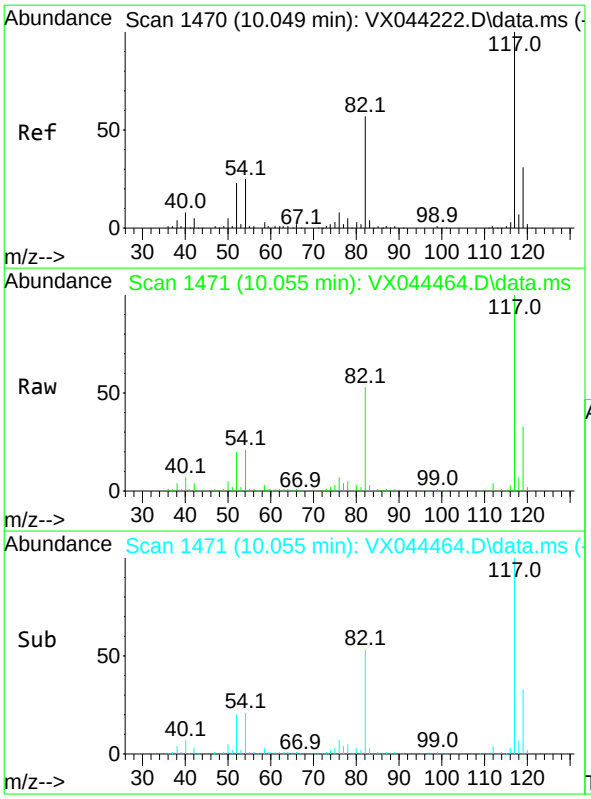


#62
4-Bromofluorobenzene
Concen: 51.161 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 95 Resp: 99862

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	145.8
176	77.6	0.0	137.8

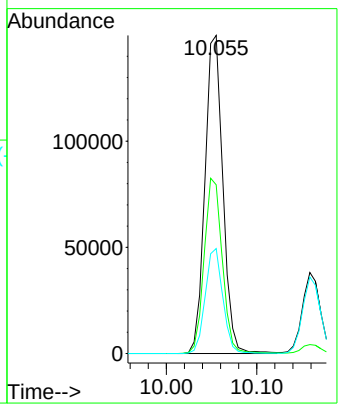




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 206477

Ion	Ratio	Lower	Upper
117	100		
82	53.0	45.8	68.8
119	33.0	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
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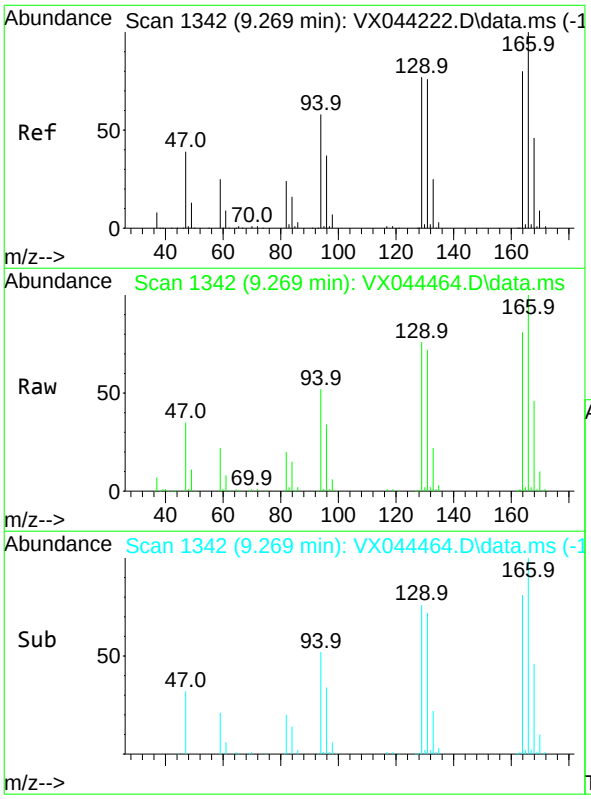
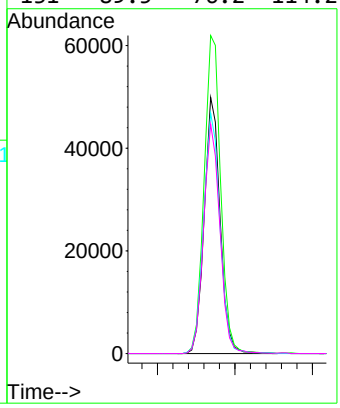
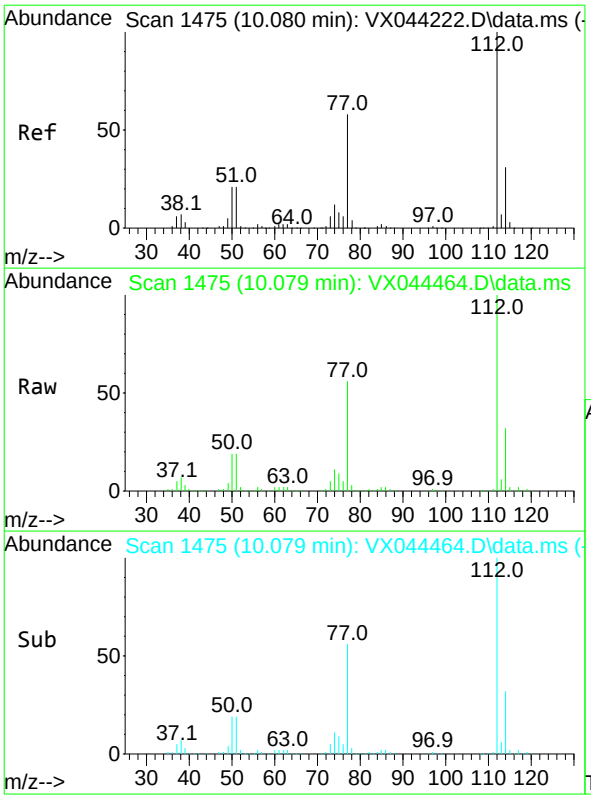


#64
Tetrachloroethene
Concen: 51.727 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:164 Resp: 70888

Ion	Ratio	Lower	Upper
164	100		
166	124.1	100.4	150.6
129	93.8	77.2	115.8
131	89.5	76.2	114.2

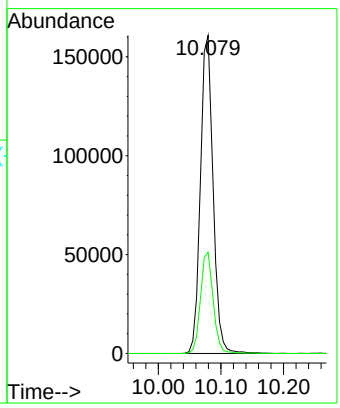




#65
Chlorobenzene
Concen: 51.056 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:112 Resp: 225888

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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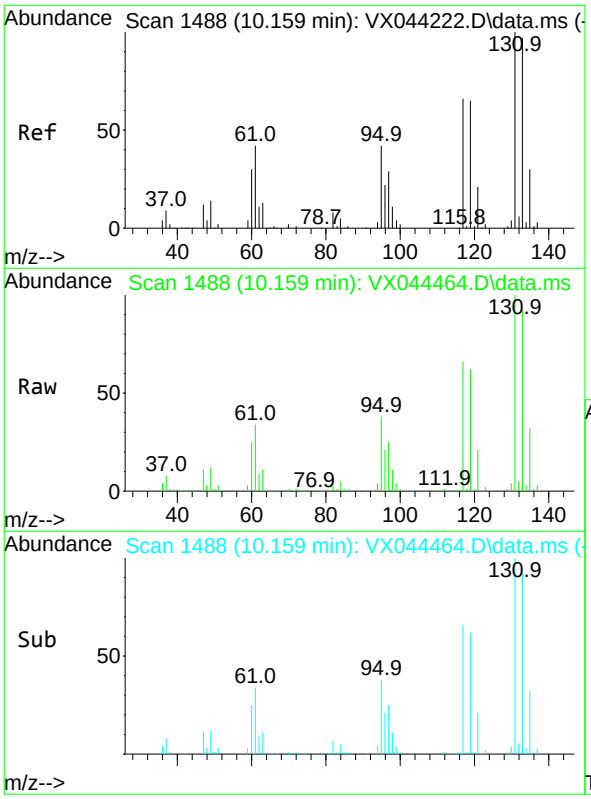
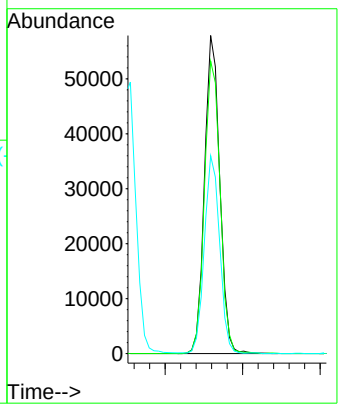
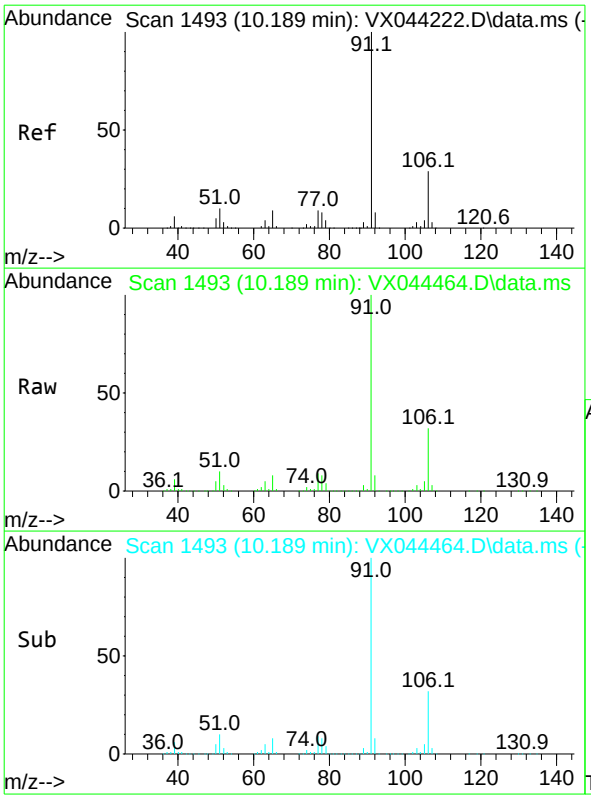


#66
1,1,1,2-Tetrachloroethane
Concen: 55.601 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:131 Resp: 79060

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	62.0	31.6	95.0

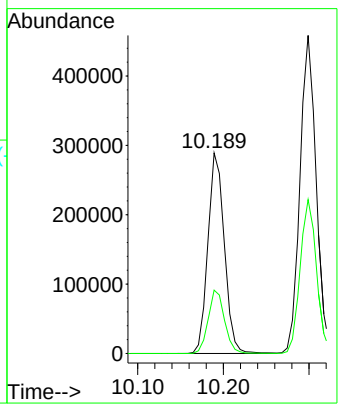




#67
Ethyl Benzene
Concen: 50.462 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 385756

Ion	Ratio	Lower	Upper
91	100		
106	31.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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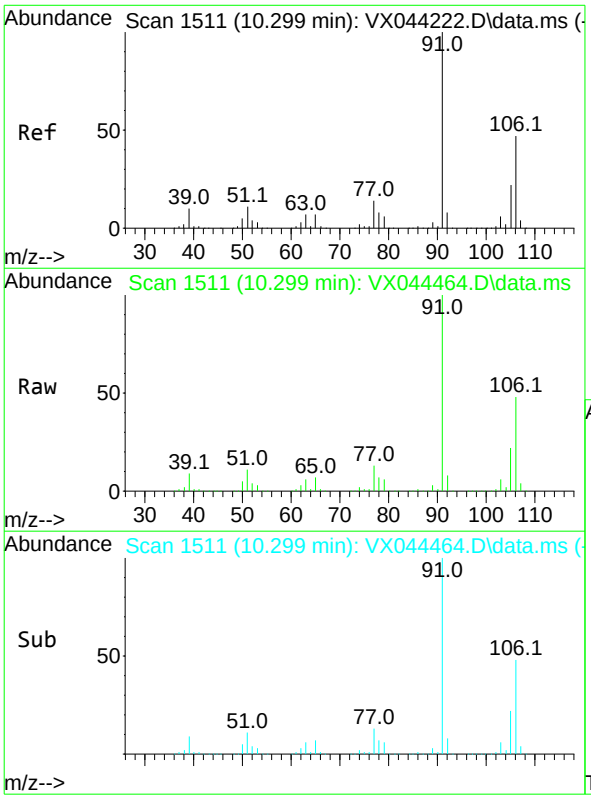
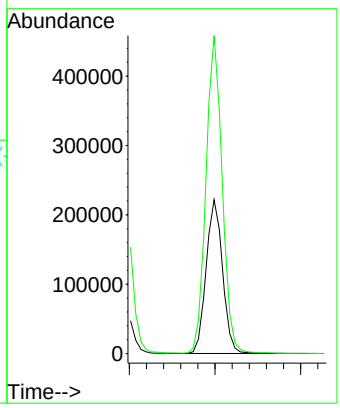
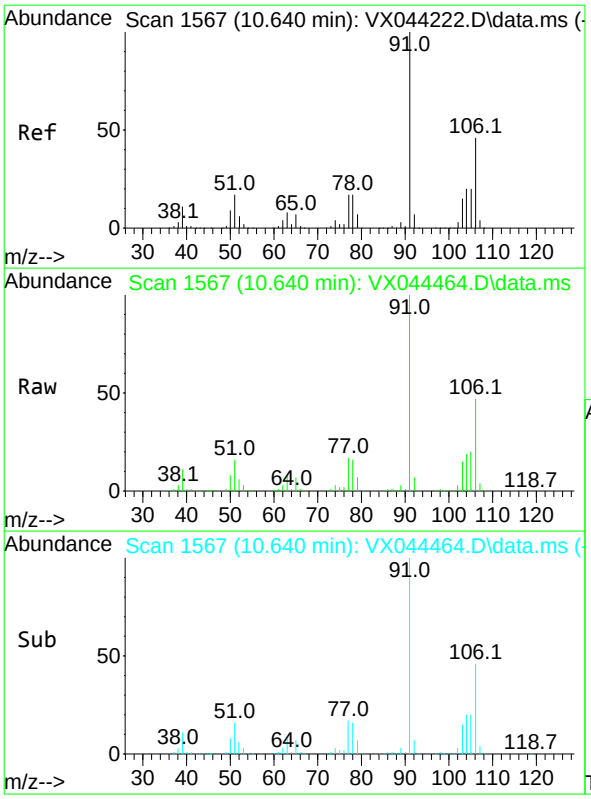


#68
m/p-Xylenes
Concen: 105.028 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:106 Resp: 294612

Ion	Ratio	Lower	Upper
106	100		
91	205.2	170.2	255.2

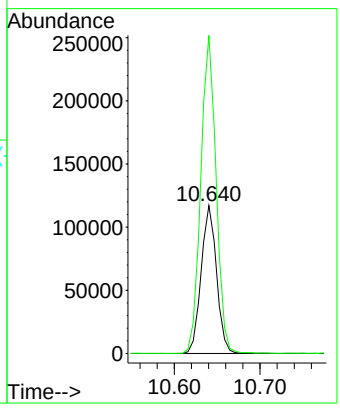




#69
o-Xylene
Concen: 51.494 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:106 Resp: 146149

Ion	Ratio	Lower	Upper
106	100		
91	213.9	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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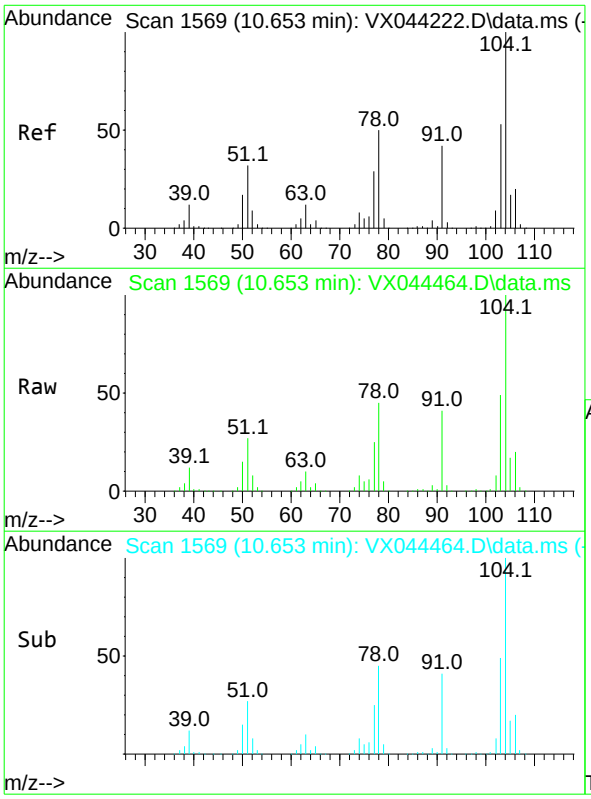
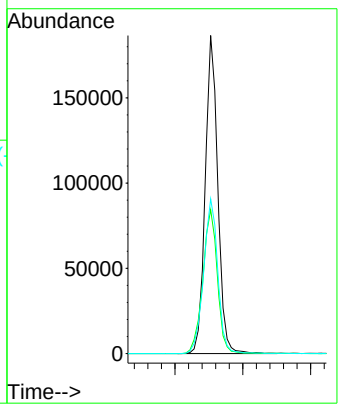
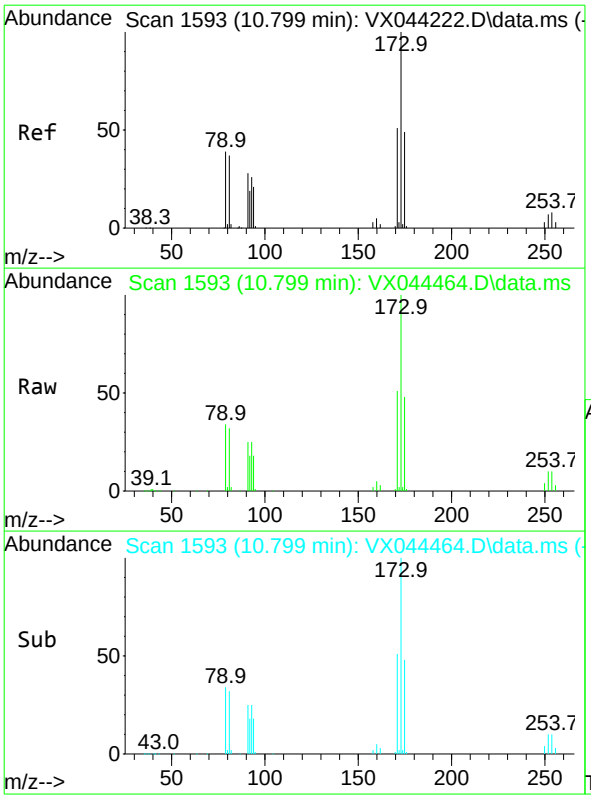


#70
Styrene
Concen: 52.761 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:104 Resp: 240058

Ion	Ratio	Lower	Upper
104	100		
78	52.3	44.6	67.0
103	55.0	45.4	68.0





#71
Bromoform
Concen: 51.900 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:173 Resp: 51823

Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.8	71.4
254	0.1	0.0	0.0#

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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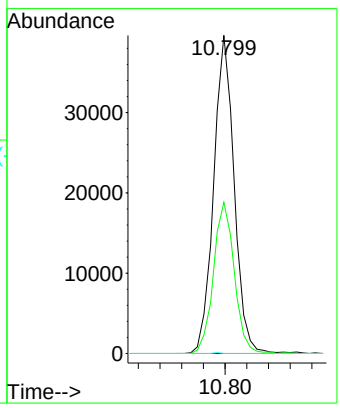
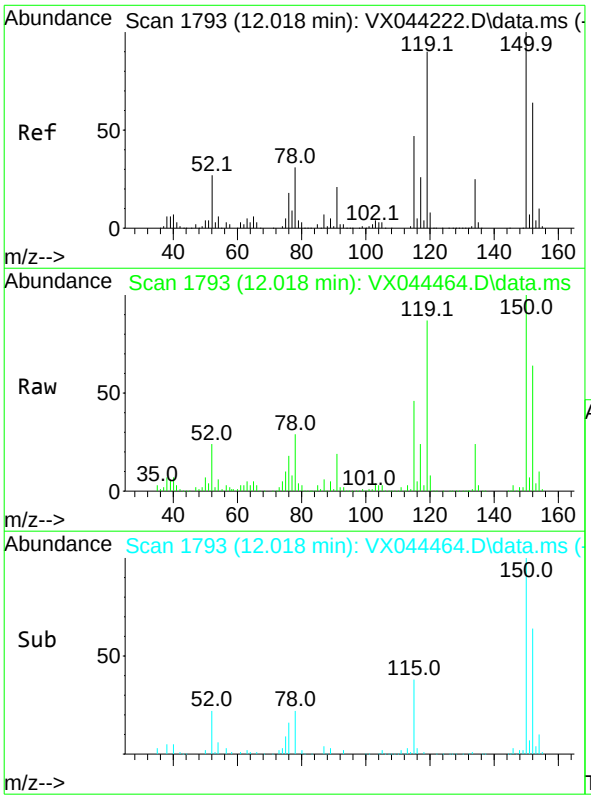
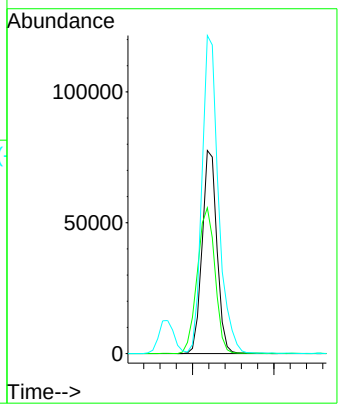


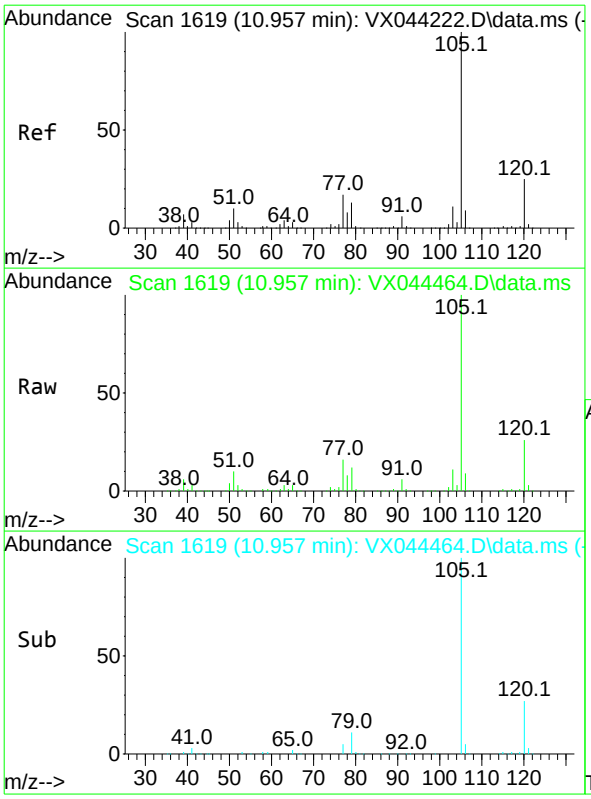


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:152 Resp: 97831

Ion	Ratio	Lower	Upper
152	100		
115	86.4	44.5	133.3
150	174.4	0.0	353.8

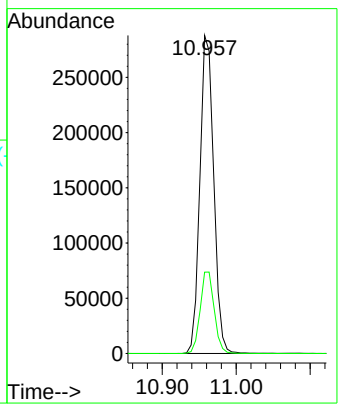




#73
Isopropylbenzene
Concen: 50.011 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 374548

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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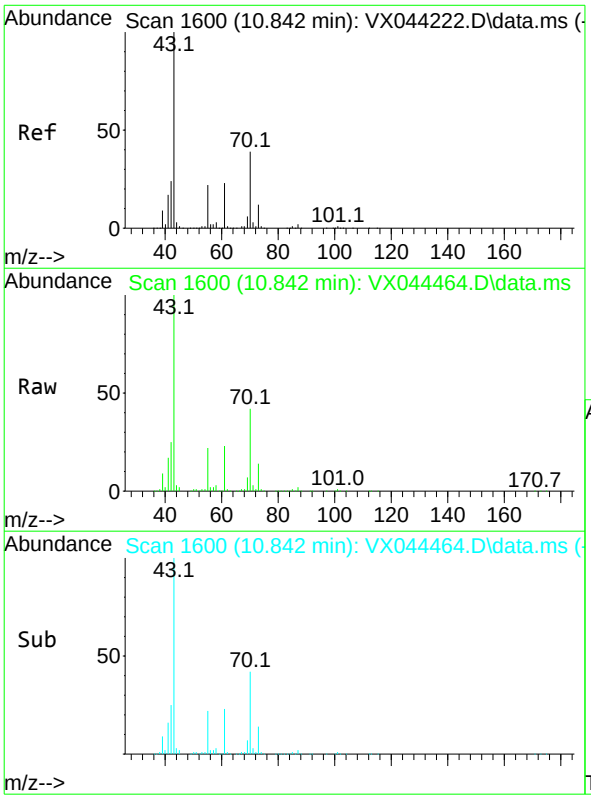
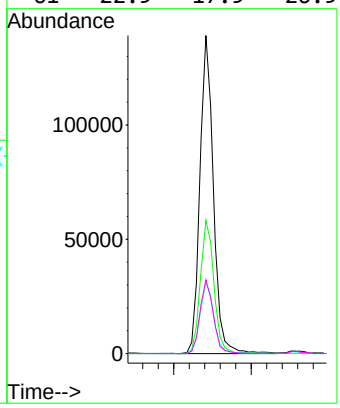
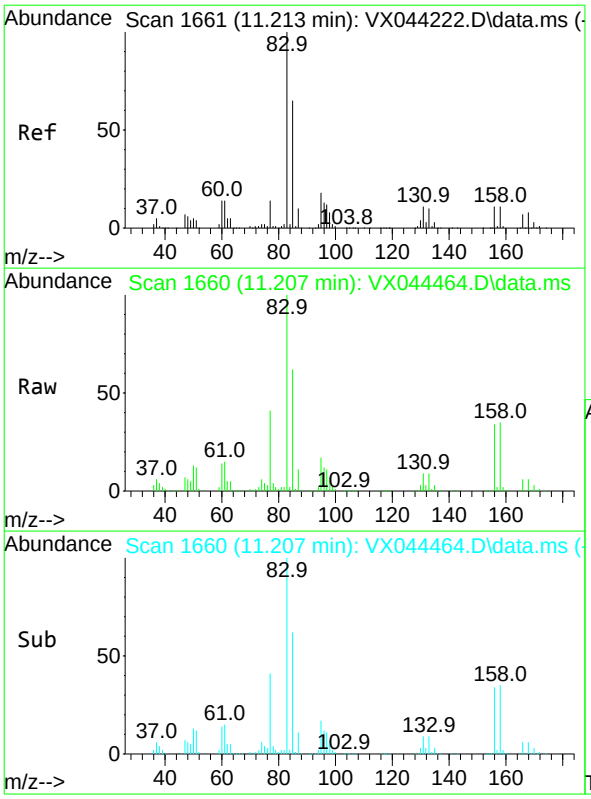


#74
N-amyl acetate
Concen: 48.576 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 168135

Ion	Ratio	Lower	Upper
43	100		
70	42.4	31.9	47.9
55	22.9	17.9	26.9
61	22.9	17.9	26.9

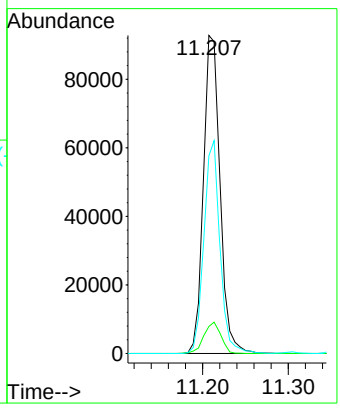




#75
1,1,2,2-Tetrachloroethane
Concen: 48.065 ug/l
RT: 11.207 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 125030

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.6	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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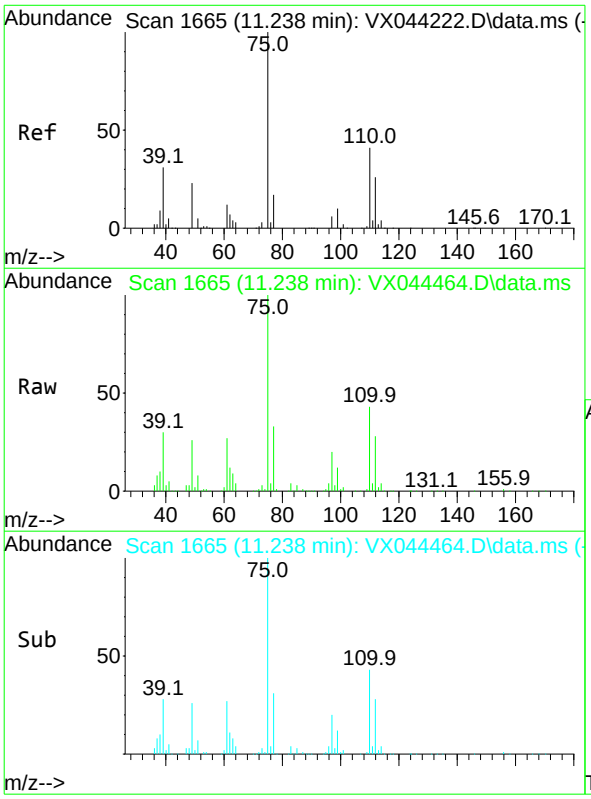
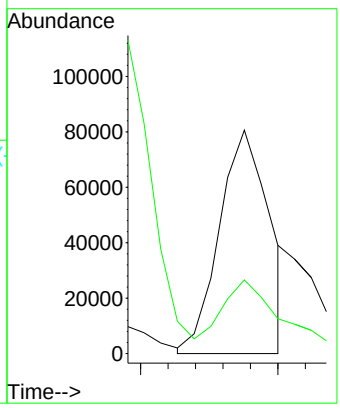
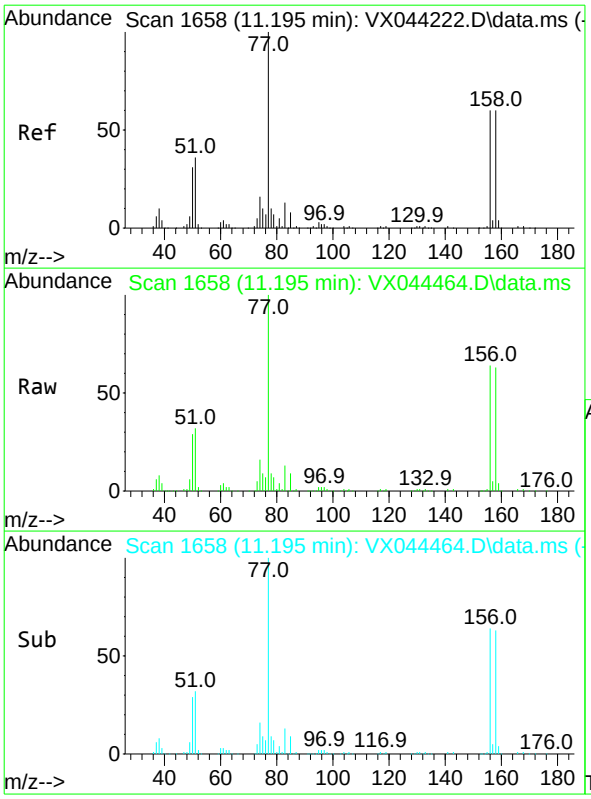


#76
1,2,3-Trichloropropane
Concen: 46.709 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 102028

Ion	Ratio	Lower	Upper
75	100		
77	40.9	20.9	62.7

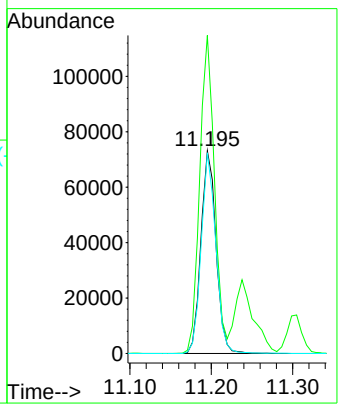




#77
Bromobenzene
Concen: 51.903 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:156 Resp: 94262

Ion	Ratio	Lower	Upper
156	100		
77	153.3	82.6	247.8
158	95.8	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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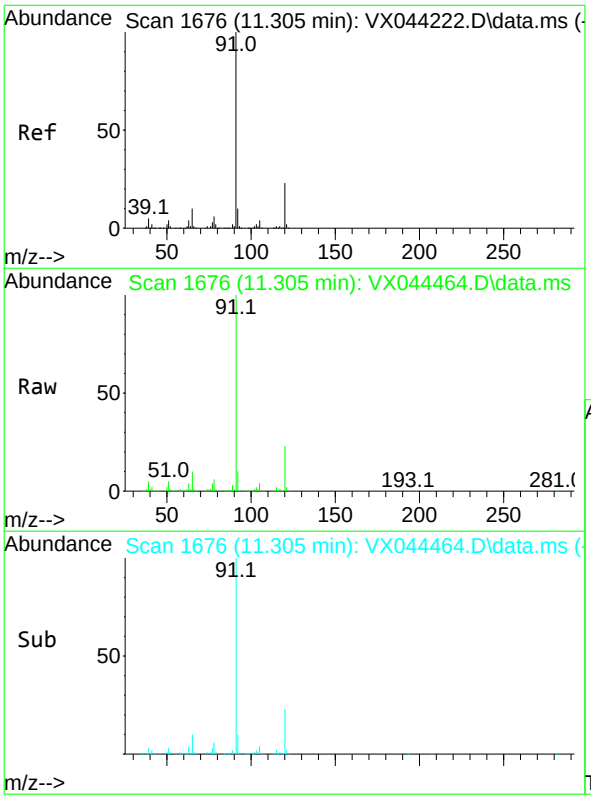
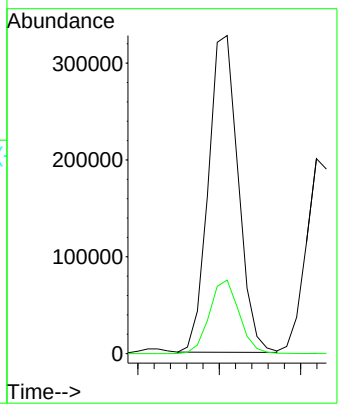
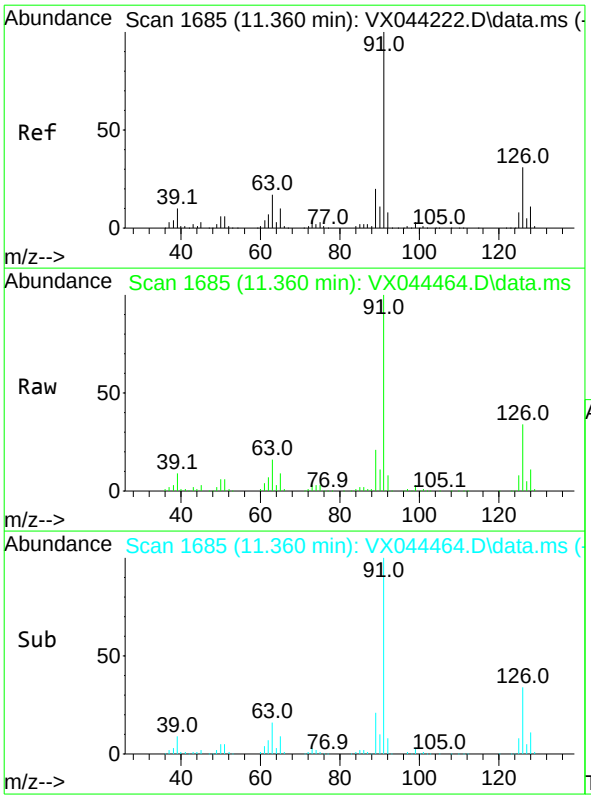


#78
n-propylbenzene
Concen: 50.432 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 417465

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.0	33.0

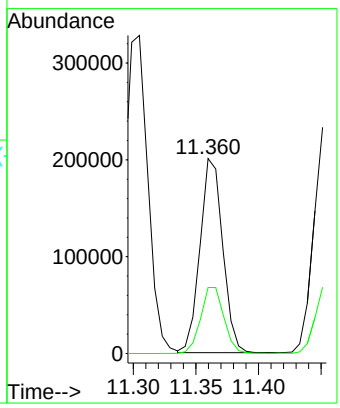




#79
2-Chlorotoluene
Concen: 47.285 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 253139

Ion	Ratio	Lower	Upper
91	100		
126	34.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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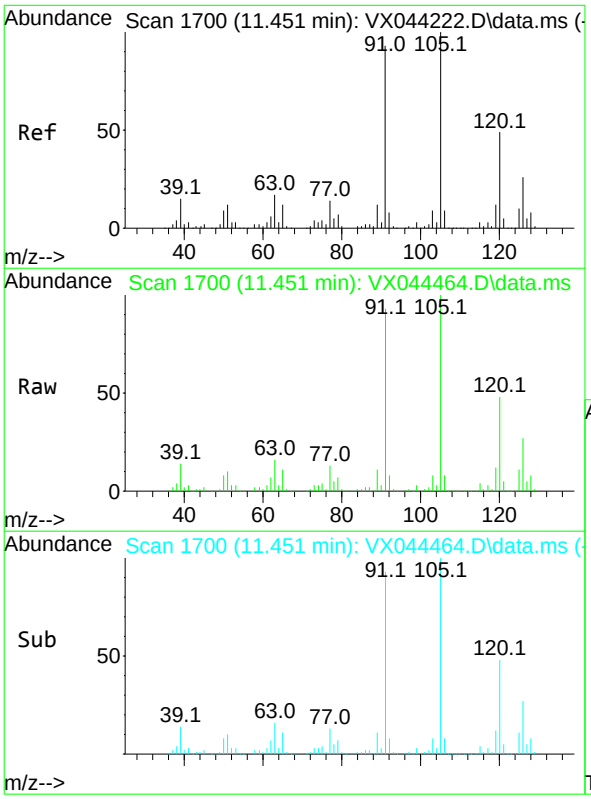
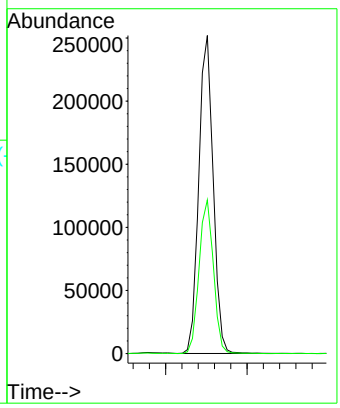
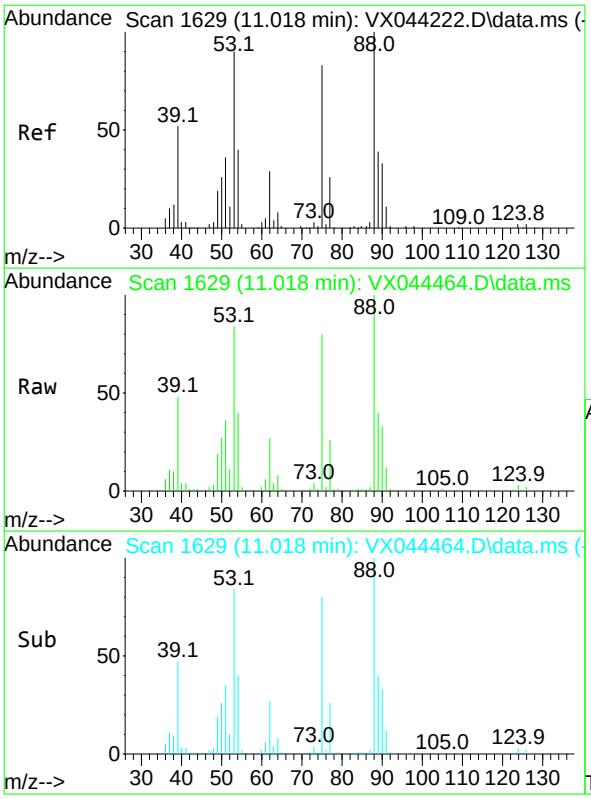


#80
1,3,5-Trimethylbenzene
Concen: 49.787 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 309218

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.8	71.4

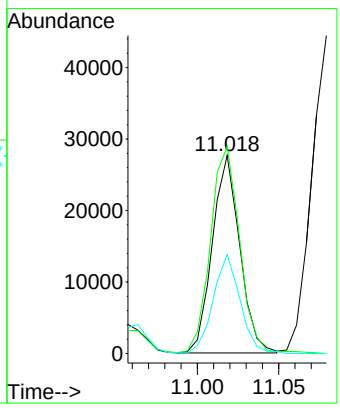




#81
trans-1,4-Dichloro-2-butene
Concen: 43.348 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 32407

Ion	Ratio	Lower	Upper
75	100		
53	111.6	93.6	140.4
89	49.1	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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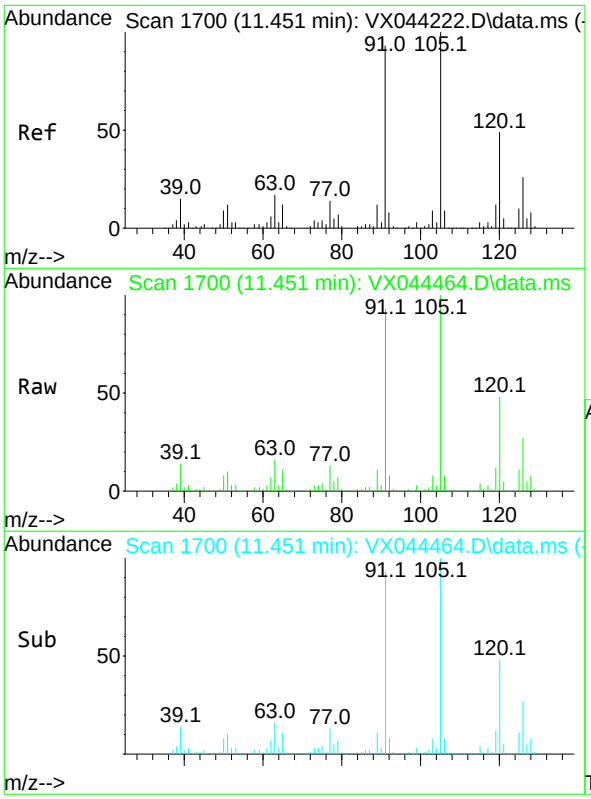
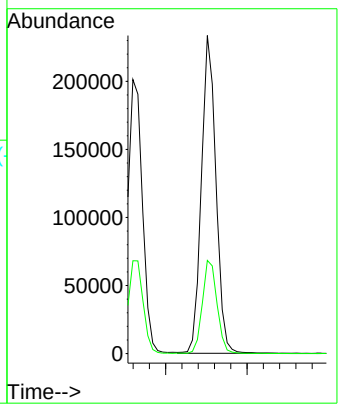
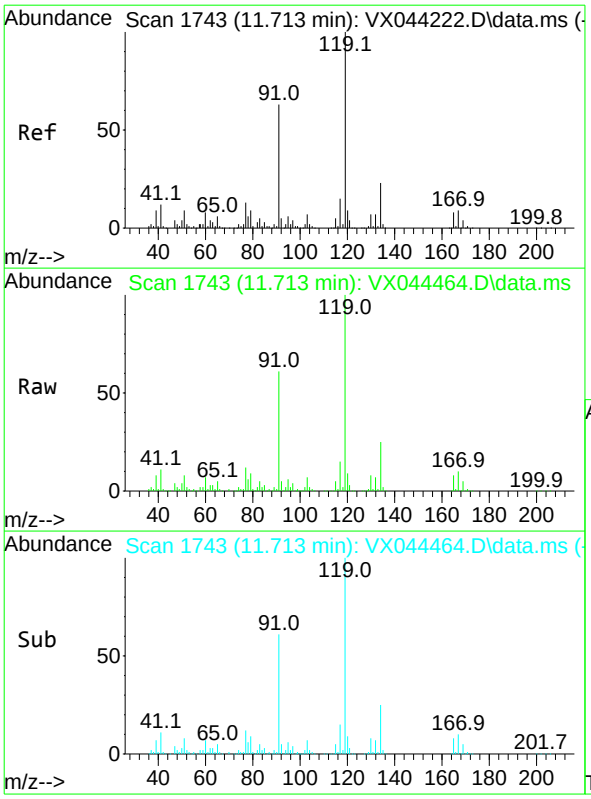


#82
4-Chlorotoluene
Concen: 48.802 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 289306

Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.5	43.5

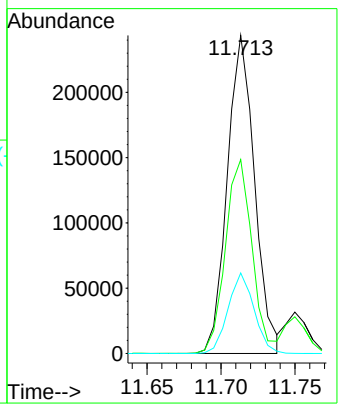




#83
tert-Butylbenzene
Concen: 50.950 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:119 Resp: 312731

Ion	Ratio	Lower	Upper
119	100		
91	59.8	30.9	92.5
134	24.1	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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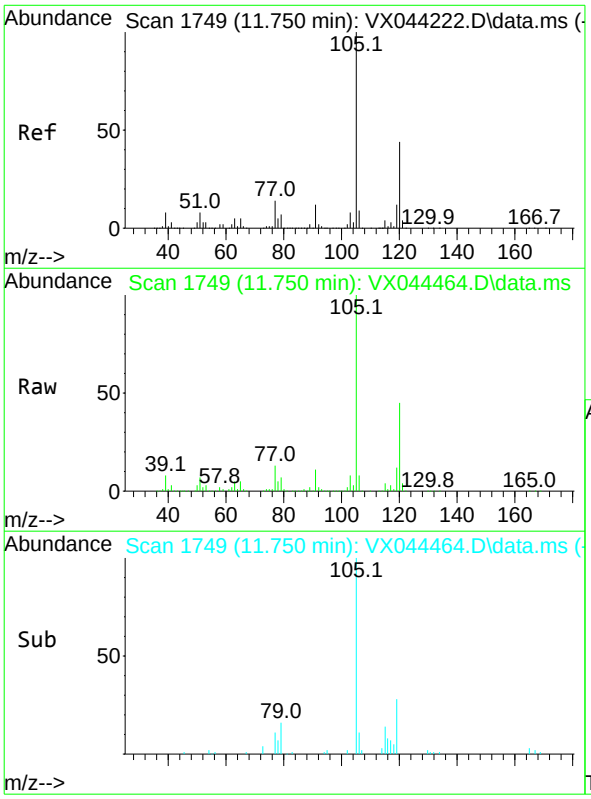
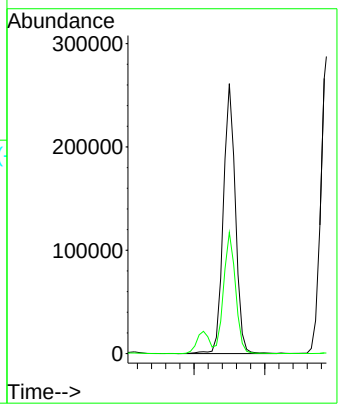
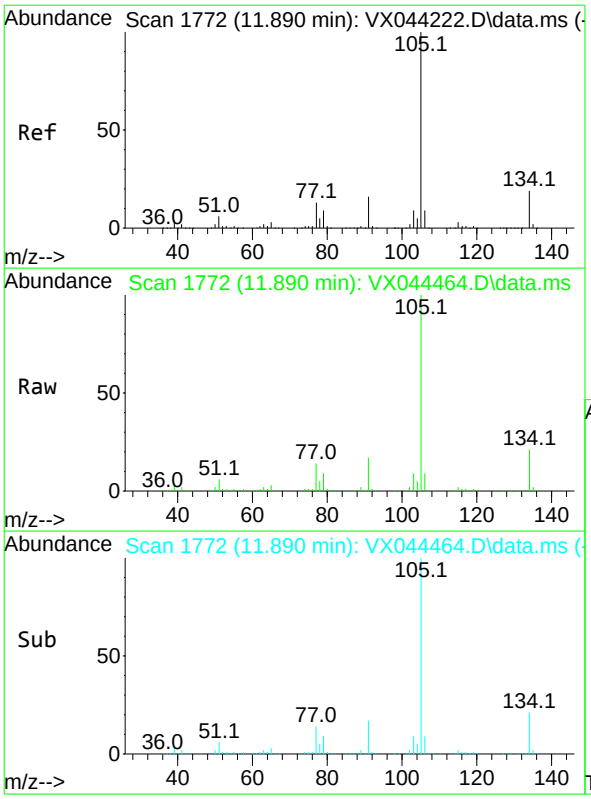


#84
1,2,4-Trimethylbenzene
Concen: 50.564 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 308415

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1

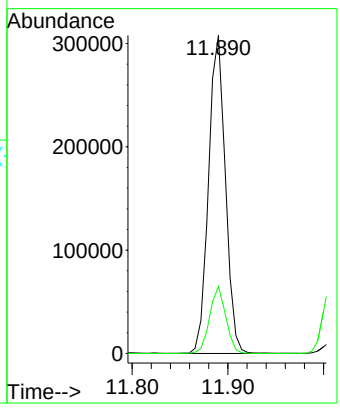




#85
sec-Butylbenzene
Concen: 50.546 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 376639

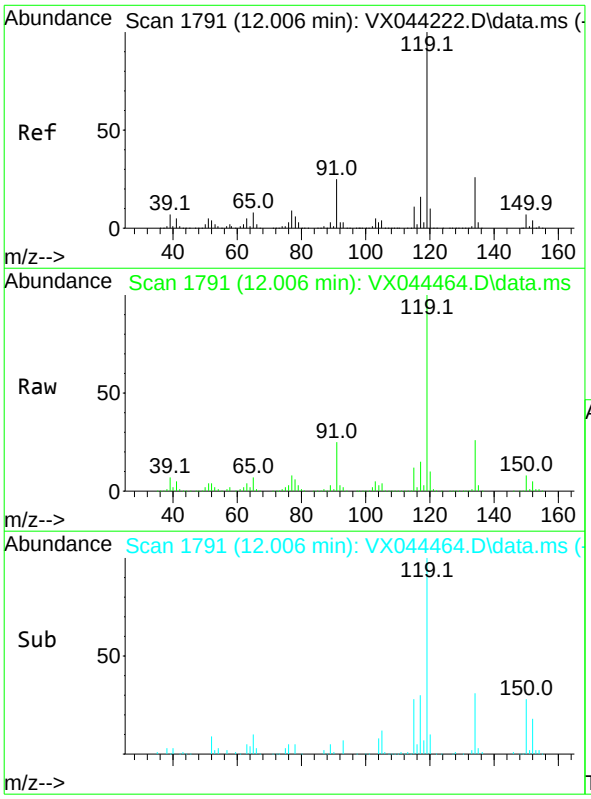
Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

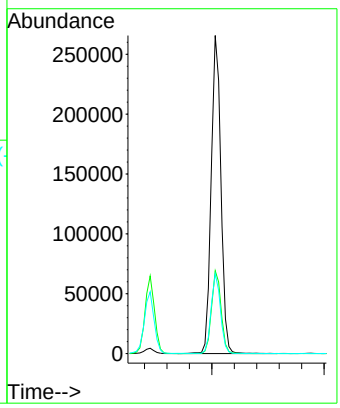
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

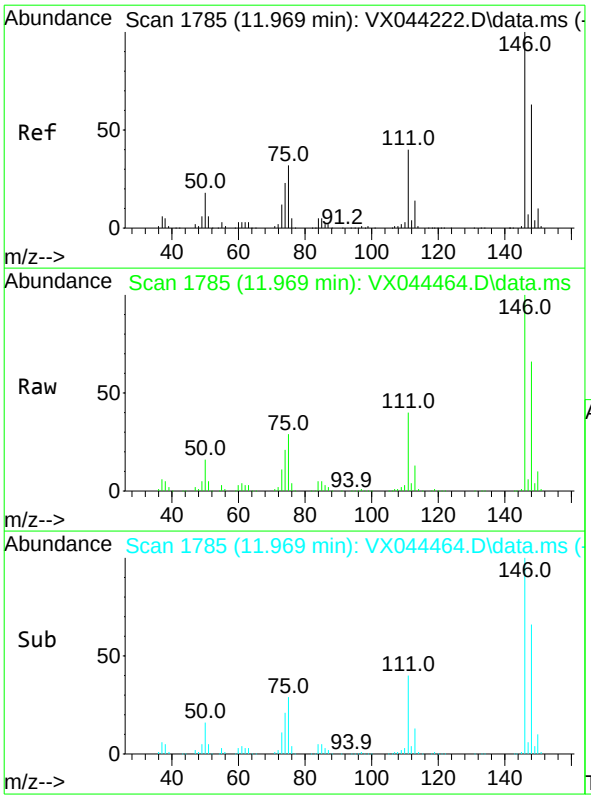


#86
p-Isopropyltoluene
Concen: 51.504 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:119 Resp: 319422

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	24.1	13.0	39.0

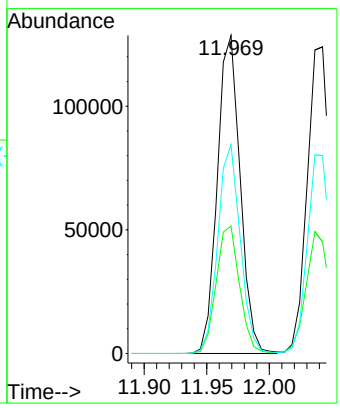




#87
1,3-Dichlorobenzene
Concen: 51.480 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:146 Resp: 163311

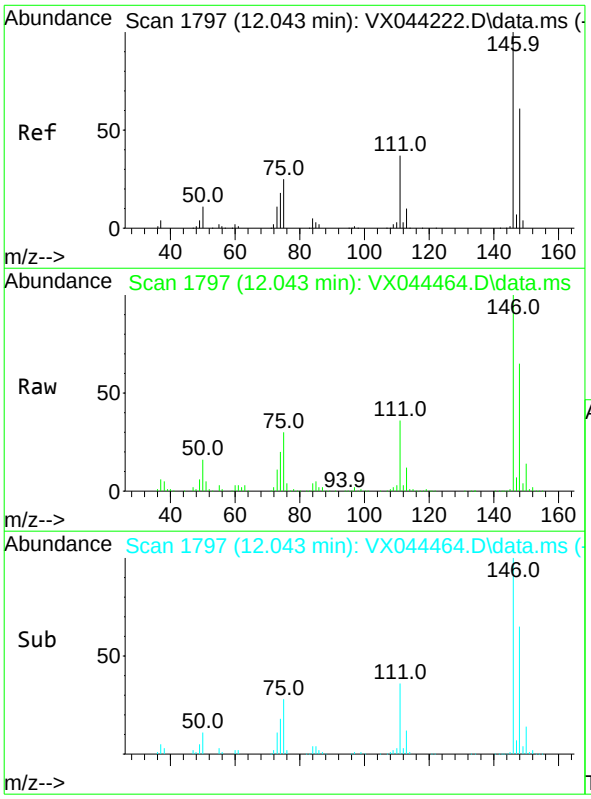
Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.4	64.2
148	64.7	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

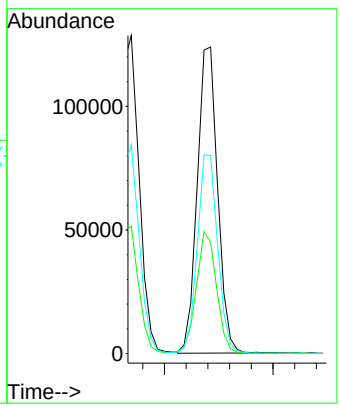
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

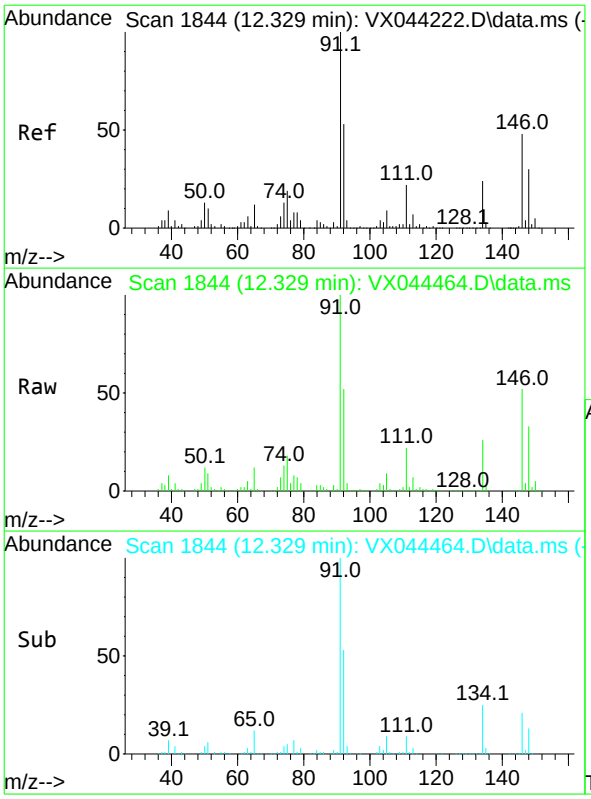


#88
1,4-Dichlorobenzene
Concen: 49.579 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:146 Resp: 161681

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.0	63.0
148	65.1	32.3	96.8

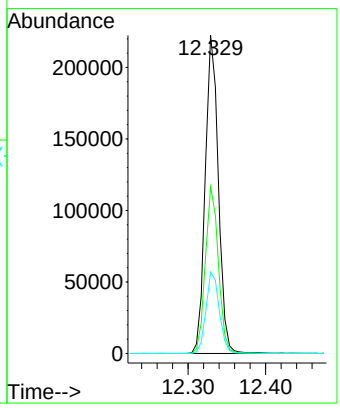




#89
n-Butylbenzene
Concen: 50.212 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 261860

Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.6	79.7
134	26.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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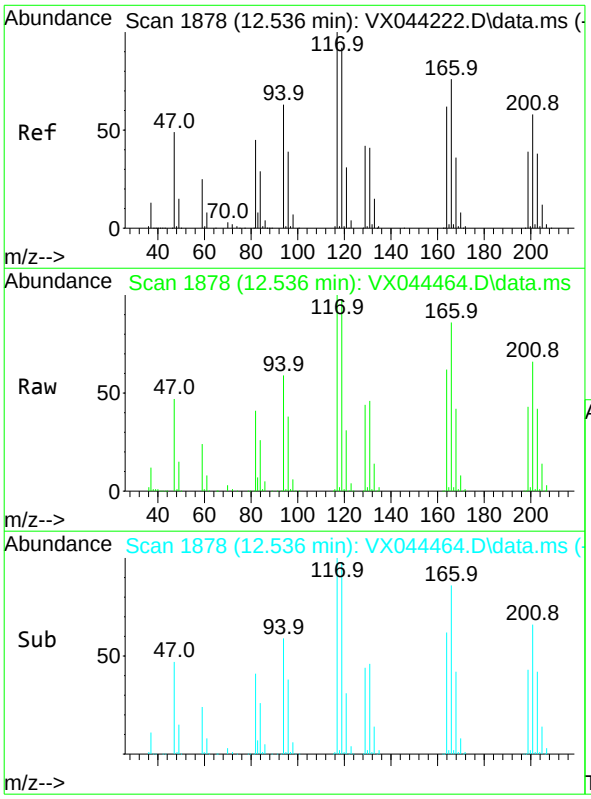
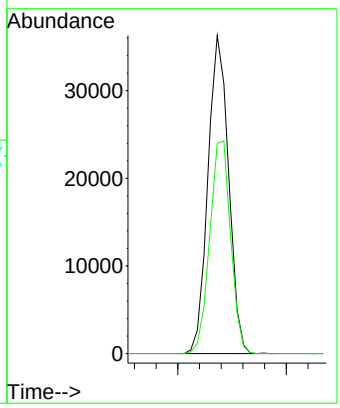
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

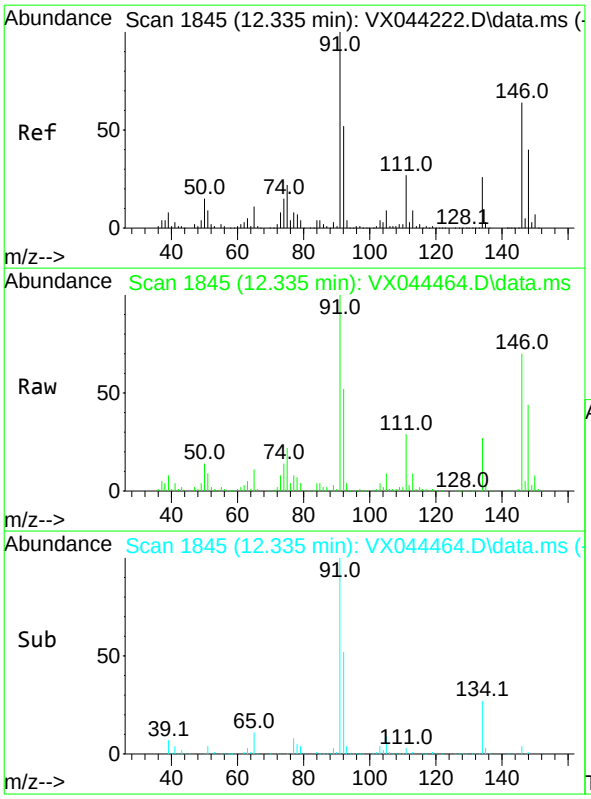


#90
Hexachloroethane
Concen: 52.940 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 47928

Ion	Ratio	Lower	Upper
117	100		
201	67.8	31.4	94.2

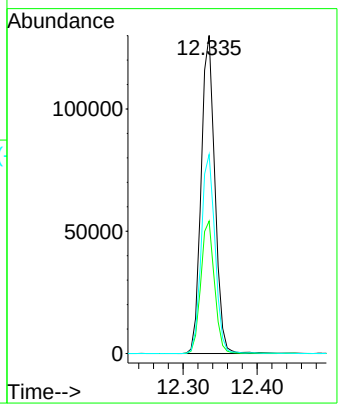




#91
1,2-Dichlorobenzene
Concen: 50.764 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:146 Resp: 167214

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.4	64.3
148	63.1	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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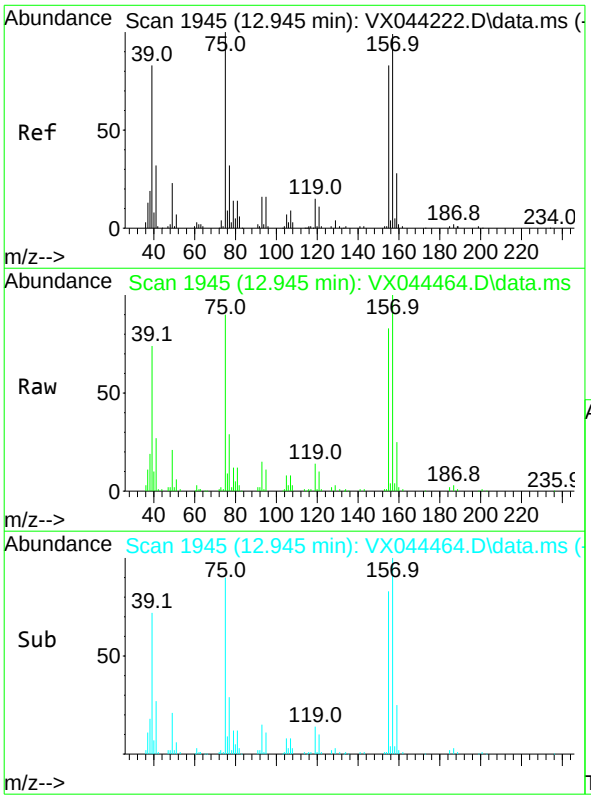
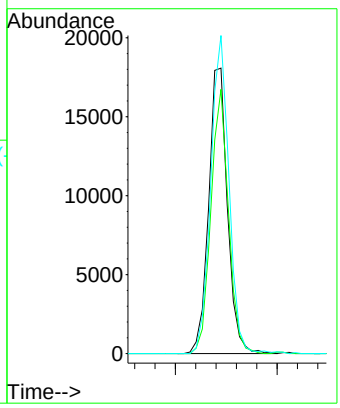
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

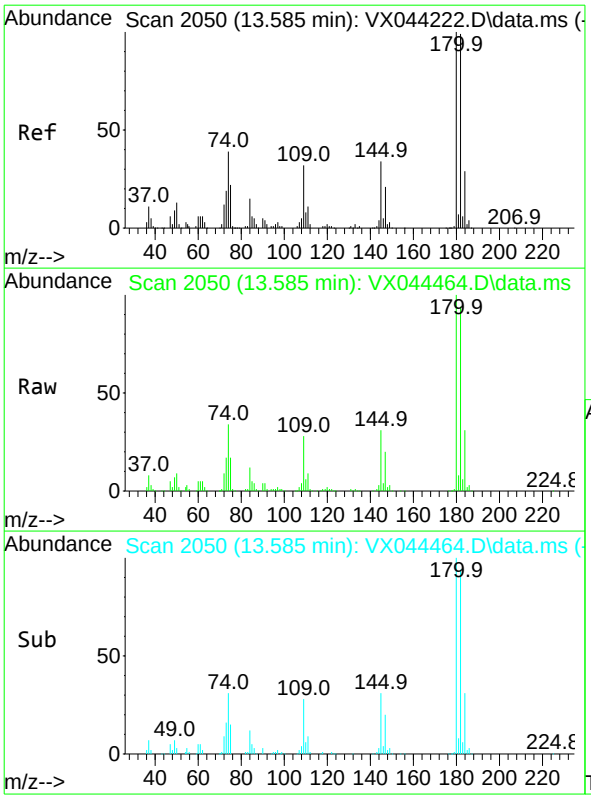


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.042 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 23250

Ion	Ratio	Lower	Upper
75	100		
155	86.4	38.1	114.3
157	107.8	47.2	141.6

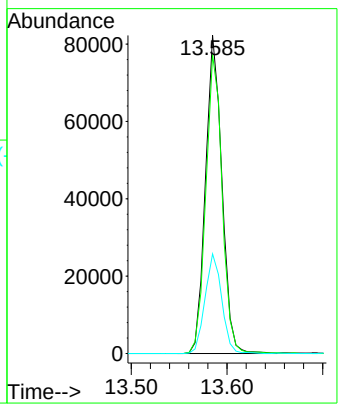




#93
1,2,4-Trichlorobenzene
Concen: 54.188 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:180 Resp: 97858

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.2
145	31.9	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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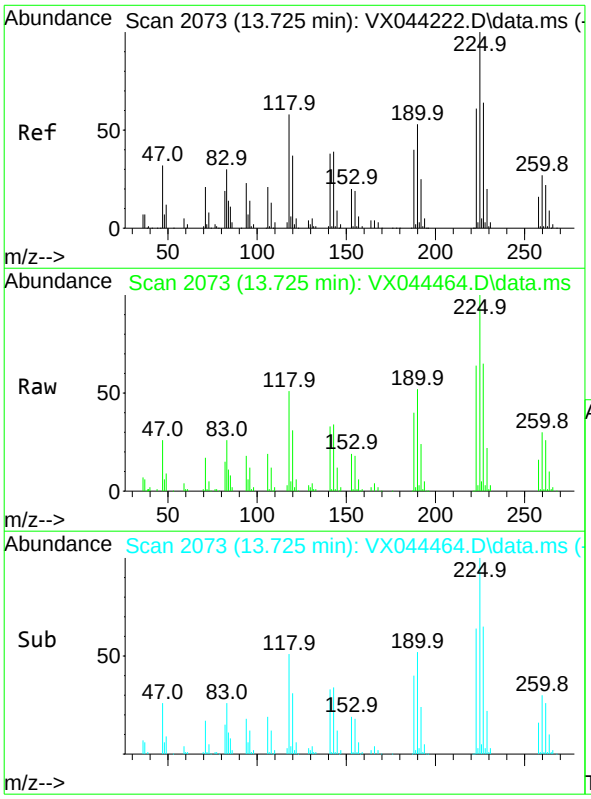
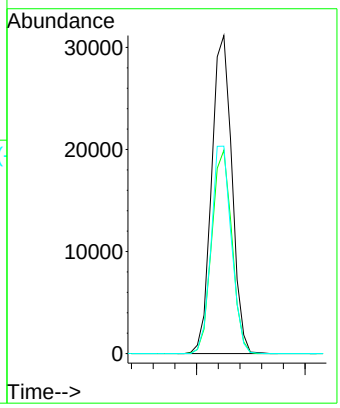
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

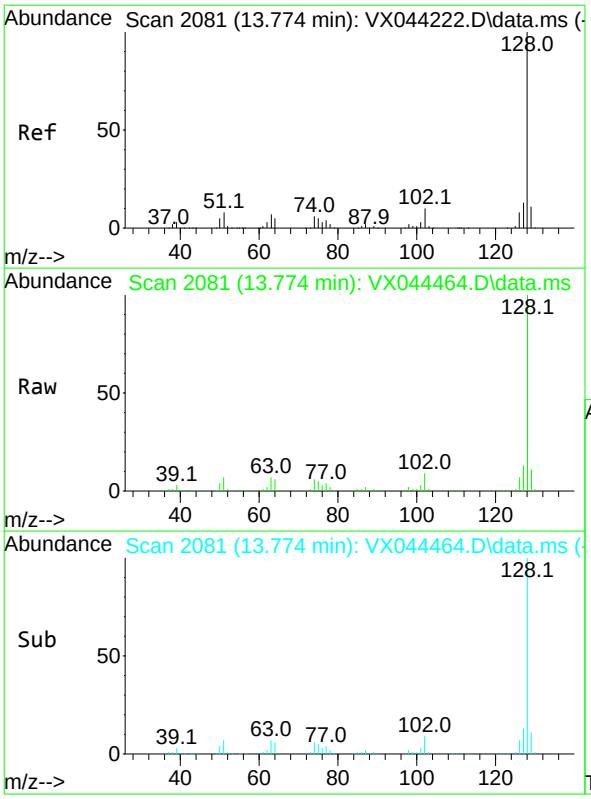


#94
Hexachlorobutadiene
Concen: 55.763 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:225 Resp: 40506

Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.8	92.4
227	65.0	32.1	96.3

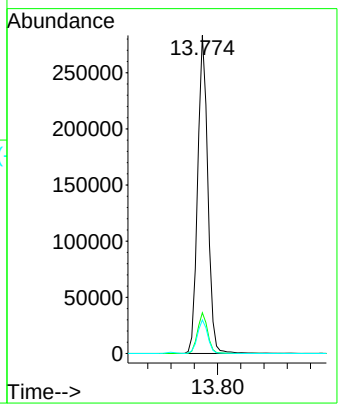




#95
Naphthalene
Concen: 48.680 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:128 Resp: 343151

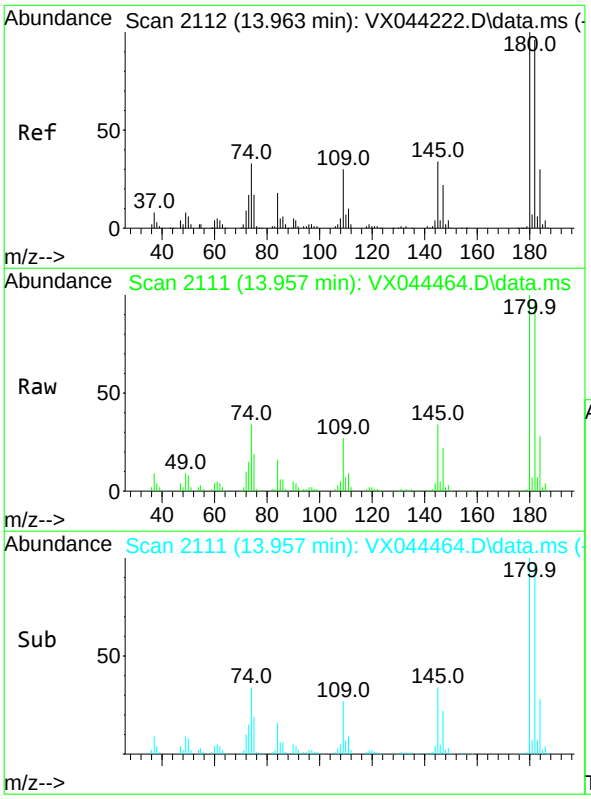
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.7	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

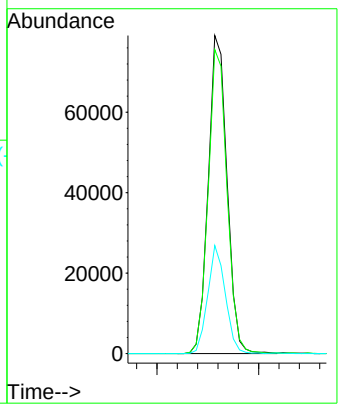
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024



#96
1,2,3-Trichlorobenzene
Concen: 52.939 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:180 Resp: 101400

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.0
145	31.9	17.7	53.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	112	0.00
2	T	Dichlorodifluoromethane	0.773	0.744	3.8	105	0.00
3	P	Chloromethane	0.739	0.696	5.8	103	0.00
4	C	Vinyl Chloride	0.770	0.730	5.2#	104	0.00
5	T	Bromomethane	0.546	0.498	8.8	101	0.00
6	T	Chloroethane	0.480	0.507	-5.6	106	0.00
7	T	Trichlorofluoromethane	1.508	1.202	20.3	87	0.00
8	T	Diethyl Ether	0.515	0.439	14.8	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.610	0.590	3.3	107	0.00
10	T	Methyl Iodide	0.804	0.807	-0.4	106	0.00
11	T	Tert butyl alcohol	0.124	0.102	17.7	94	0.00
12	CM	1,1-Dichloroethene	0.560	0.560	0.0	105	0.00
13	T	Acrolein	0.179	0.159	11.2	96	0.00
14	T	Allyl chloride	0.933	0.888	4.8	98	0.00
15	T	Acrylonitrile	0.342	0.310	9.4	96	0.00
16	T	Acetone	0.357	0.270	24.4	79	0.00
17	T	Carbon Disulfide	1.065	1.089	-2.3	106	0.00
18	T	Methyl Acetate	0.922	0.860	6.7	101	0.00
19	T	Methyl tert-butyl Ether	2.187	1.972	9.8	95	0.00
20	T	Methylene Chloride	0.671	0.636	5.2	103	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.578	3.0	104	0.00
22	T	Diisopropyl ether	2.102	1.893	9.9	97	0.00
23	T	Vinyl Acetate	1.709	1.665	2.6	97	0.00
24	P	1,1-Dichloroethane	1.172	1.125	4.0	101	0.00
25	T	2-Butanone	0.508	0.433	14.8	88	0.00
26	T	2,2-Dichloropropane	0.952	0.828	13.0	88	0.00
27	T	cis-1,2-Dichloroethene	0.756	0.719	4.9	104	0.00
28	T	Bromochloromethane	0.575	0.510	11.3	96	0.00
29	T	Tetrahydrofuran	0.326	0.277	15.0	92	0.00
30	C	Chloroform	1.316	1.190	9.6#	99	0.00
31	T	Cyclohexane	0.946	0.871	7.9	99	0.00
32	T	1,1,1-Trichloroethane	1.093	1.029	5.9	98	0.00
33	S	1,2-Dichloroethane-d4	0.877	0.778	11.3	94	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.346	0.363	-4.9	101	0.00
36	T	1,1-Dichloropropene	0.448	0.439	2.0	101	0.00
37	T	Ethyl Acetate	0.553	0.533	3.6	94	0.00
38	T	Carbon Tetrachloride	0.482	0.495	-2.7	101	0.00
39	T	Methylcyclohexane	0.535	0.550	-2.8	101	0.00
40	TM	Benzene	1.359	1.393	-2.5	101	0.00
41	T	Methacrylonitrile	0.294	0.279	5.1	95	0.00
42	TM	1,2-Dichloroethane	0.560	0.534	4.6	94	0.00
43	T	Isopropyl Acetate	0.865	0.831	3.9	93	0.00
44	TM	Trichloroethene	0.339	0.360	-6.2	105	0.00
45	C	1,2-Dichloropropane	0.347	0.345	0.6#	99	0.00
46	T	Dibromomethane	0.269	0.276	-2.6	99	0.00
47	T	Bromodichloromethane	0.465	0.491	-5.6	99	0.00
48	T	Methyl methacrylate	0.420	0.396	5.7	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	0.007	0.007	0.0	95	-0.01
50	S	Toluene-d8	1.168	1.213	-3.9	99	0.00
51	T	4-Methyl-2-Pentanone	0.556	0.524	5.8	91	0.00
52	CM	Toluene	0.853	0.855	-0.2#	100	0.00
53	T	t-1,3-Dichloropropene	0.455	0.482	-5.9	96	0.00
54	T	cis-1,3-Dichloropropene	0.507	0.531	-4.7	96	0.00
55	T	1,1,2-Trichloroethane	0.339	0.345	-1.8	99	0.00
56	T	Ethyl methacrylate	0.535	0.551	-3.0	98	0.00
57	T	1,3-Dichloropropane	0.590	0.588	0.3	98	0.00
58	T	2-Chloroethyl Vinyl ether	0.270	0.263	2.6	92	0.00
59	T	2-Hexanone	0.403	0.381	5.5	89	0.00
60	T	Dibromochloromethane	0.326	0.361	-10.7	100	0.00
61	T	1,2-Dibromoethane	0.345	0.366	-6.1	102	0.00
62	S	4-Bromofluorobenzene	0.408	0.418	-2.5	97	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.332	0.343	-3.3	108	0.00
65	PM	Chlorobenzene	1.071	1.094	-2.1	101	0.00
66	T	1,1,1,2-Tetrachloroethane	0.344	0.383	-11.3	103	0.00
67	C	Ethyl Benzene	1.851	1.868	-0.9#	98	0.00
68	T	m/p-Xylenes	0.679	0.713	-5.0	102	0.00
69	T	o-Xylene	0.687	0.708	-3.1	101	0.00
70	T	Styrene	1.102	1.163	-5.5	101	0.00
71	P	Bromoform	0.219	0.251	-14.6	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.828	3.829	-0.0	101	0.00
74	T	N-amyl acetate	1.769	1.719	2.8	92	0.00
75	P	1,1,2,2-Tetrachloroethane	1.329	1.278	3.8	98	0.00
76	T	1,2,3-Trichloropropane	1.116	1.043	6.5	95	0.00
77	T	Bromobenzene	0.928	0.964	-3.9	105	0.00
78	T	n-propylbenzene	4.231	4.267	-0.9	97	0.00
79	T	2-Chlorotoluene	2.736	2.588	5.4	96	0.00
80	T	1,3,5-Trimethylbenzene	3.174	3.161	0.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.347	0.331	4.6	92	0.00
82	T	4-Chlorotoluene	3.030	2.957	2.4	98	0.00
83	T	tert-Butylbenzene	3.137	3.197	-1.9	101	0.00
84	T	1,2,4-Trimethylbenzene	3.117	3.153	-1.2	98	0.00
85	T	sec-Butylbenzene	3.808	3.850	-1.1	99	0.00
86	T	p-Isopropyltoluene	3.170	3.265	-3.0	100	0.00
87	T	1,3-Dichlorobenzene	1.621	1.669	-3.0	102	0.00
88	T	1,4-Dichlorobenzene	1.667	1.653	0.8	102	0.00
89	T	n-Butylbenzene	2.665	2.677	-0.5	97	0.00
90	T	Hexachloroethane	0.463	0.490	-5.8	99	0.00
91	T	1,2-Dichlorobenzene	1.683	1.709	-1.5	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.258	0.238	7.8	89	0.00
93	T	1,2,4-Trichlorobenzene	0.923	1.000	-8.3	105	0.00
94	T	Hexachlorobutadiene	0.371	0.414	-11.6	115	0.00
95	T	Naphthalene	3.603	3.508	2.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.979	1.036	-5.8	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	112	0.00
2	T	Dichlorodifluoromethane	50.000	48.084	3.8	105	0.00
3	P	Chloromethane	50.000	47.052	5.9	103	0.00
4	C	Vinyl Chloride	50.000	47.388	5.2#	104	0.00
5	T	Bromomethane	50.000	45.581	8.8	101	0.00
6	T	Chloroethane	50.000	52.848	-5.7	106	0.00
7	T	Trichlorofluoromethane	50.000	39.855	20.3	87	0.00
8	T	Diethyl Ether	50.000	42.687	14.6	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.311	3.4	107	0.00
10	T	Methyl Iodide	50.000	50.177	-0.4	106	0.00
11	T	Tert butyl alcohol	250.000	205.778	17.7	94	0.00
12	CM	1,1-Dichloroethene	50.000	50.001	-0.0#	105	0.00
13	T	Acrolein	250.000	222.774	10.9	96	0.00
14	T	Allyl chloride	50.000	47.541	4.9	98	0.00
15	T	Acrylonitrile	250.000	226.182	9.5	96	0.00
16	T	Acetone	250.000	188.692	24.5	79	0.00
17	T	Carbon Disulfide	50.000	51.130	-2.3	106	0.00
18	T	Methyl Acetate	50.000	46.678	6.6	101	0.00
19	T	Methyl tert-butyl Ether	50.000	45.089	9.8	95	0.00
20	T	Methylene Chloride	50.000	47.401	5.2	103	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.517	3.0	104	0.00
22	T	Diisopropyl ether	50.000	45.018	10.0	97	0.00
23	T	Vinyl Acetate	250.000	243.510	2.6	97	0.00
24	P	1,1-Dichloroethane	50.000	48.018	4.0	101	0.00
25	T	2-Butanone	250.000	213.237	14.7	88	0.00
26	T	2,2-Dichloropropane	50.000	43.513	13.0	88	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.511	5.0	104	0.00
28	T	Bromochloromethane	50.000	44.369	11.3	96	0.00
29	T	Tetrahydrofuran	250.000	212.557	15.0	92	0.00
30	C	Chloroform	50.000	45.189	9.6#	99	0.00
31	T	Cyclohexane	50.000	46.033	7.9	99	0.00
32	T	1,1,1-Trichloroethane	50.000	47.095	5.8	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	44.357	11.3	94	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	52.347	-4.7	101	0.00
36	T	1,1-Dichloropropene	50.000	49.017	2.0	101	0.00
37	T	Ethyl Acetate	50.000	48.180	3.6	94	0.00
38	T	Carbon Tetrachloride	50.000	51.365	-2.7	101	0.00
39	T	Methylcyclohexane	50.000	51.370	-2.7	101	0.00
40	TM	Benzene	50.000	51.262	-2.5	101	0.00
41	T	Methacrylonitrile	50.000	47.401	5.2	95	0.00
42	TM	1,2-Dichloroethane	50.000	47.680	4.6	94	0.00
43	T	Isopropyl Acetate	50.000	48.047	3.9	93	0.00
44	TM	Trichloroethene	50.000	53.083	-6.2	105	0.00
45	C	1,2-Dichloropropane	50.000	49.622	0.8#	99	0.00
46	T	Dibromomethane	50.000	51.184	-2.4	99	0.00
47	T	Bromodichloromethane	50.000	52.723	-5.4	99	0.00
48	T	Methyl methacrylate	50.000	47.115	5.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	1003.530	-0.4	95	-0.01
50	S	Toluene-d8	50.000	51.923	-3.8	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	235.413	5.8	91	0.00
52	CM	Toluene	50.000	50.071	-0.1#	100	0.00
53	T	t-1,3-Dichloropropene	50.000	48.388	3.2	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.437	-4.9	96	0.00
55	T	1,1,2-Trichloroethane	50.000	50.814	-1.6	99	0.00
56	T	Ethyl methacrylate	50.000	51.516	-3.0	98	0.00
57	T	1,3-Dichloropropane	50.000	49.799	0.4	98	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	243.652	2.5	92	0.00
59	T	2-Hexanone	250.000	236.376	5.4	89	0.00
60	T	Dibromochloromethane	50.000	50.206	-0.4	100	0.00
61	T	1,2-Dibromoethane	50.000	53.053	-6.1	102	0.00
62	S	4-Bromofluorobenzene	50.000	51.161	-2.3	97	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	51.727	-3.5	108	0.00
65	PM	Chlorobenzene	50.000	51.056	-2.1	101	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.601	-11.2	103	0.00
67	C	Ethyl Benzene	50.000	50.462	-0.9#	98	0.00
68	T	m/p-Xylenes	100.000	105.028	-5.0	102	0.00
69	T	o-Xylene	50.000	51.494	-3.0	101	0.00
70	T	Styrene	50.000	52.761	-5.5	101	0.00
71	P	Bromoform	50.000	51.900	-3.8	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	50.011	-0.0	101	0.00
74	T	N-amyl acetate	50.000	48.576	2.8	92	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.065	3.9	98	0.00
76	T	1,2,3-Trichloropropane	50.000	46.709	6.6	95	0.00
77	T	Bromobenzene	50.000	51.903	-3.8	105	0.00
78	T	n-propylbenzene	50.000	50.432	-0.9	97	0.00
79	T	2-Chlorotoluene	50.000	47.285	5.4	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.787	0.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	43.348	13.3	92	0.00
82	T	4-Chlorotoluene	50.000	48.802	2.4	98	0.00
83	T	tert-Butylbenzene	50.000	50.950	-1.9	101	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.564	-1.1	98	0.00
85	T	sec-Butylbenzene	50.000	50.546	-1.1	99	0.00
86	T	p-Isopropyltoluene	50.000	51.504	-3.0	100	0.00
87	T	1,3-Dichlorobenzene	50.000	51.480	-3.0	102	0.00
88	T	1,4-Dichlorobenzene	50.000	49.579	0.8	102	0.00
89	T	n-Butylbenzene	50.000	50.212	-0.4	97	0.00
90	T	Hexachloroethane	50.000	52.940	-5.9	99	0.00
91	T	1,2-Dichlorobenzene	50.000	50.764	-1.5	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.042	7.9	89	0.00
93	T	1,2,4-Trichlorobenzene	50.000	54.188	-8.4	105	0.00
94	T	Hexachlorobutadiene	50.000	55.763	-11.5	115	0.00
95	T	Naphthalene	50.000	48.680	2.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
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	52.939	-5.9	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

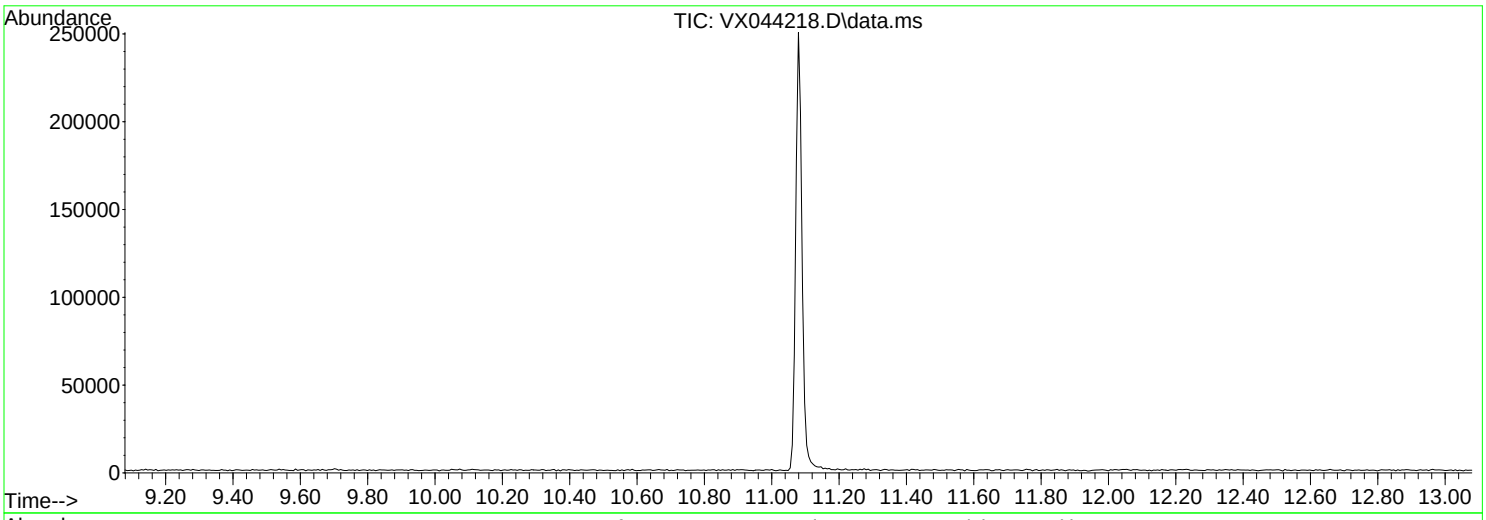
QC SAMPLE DATA

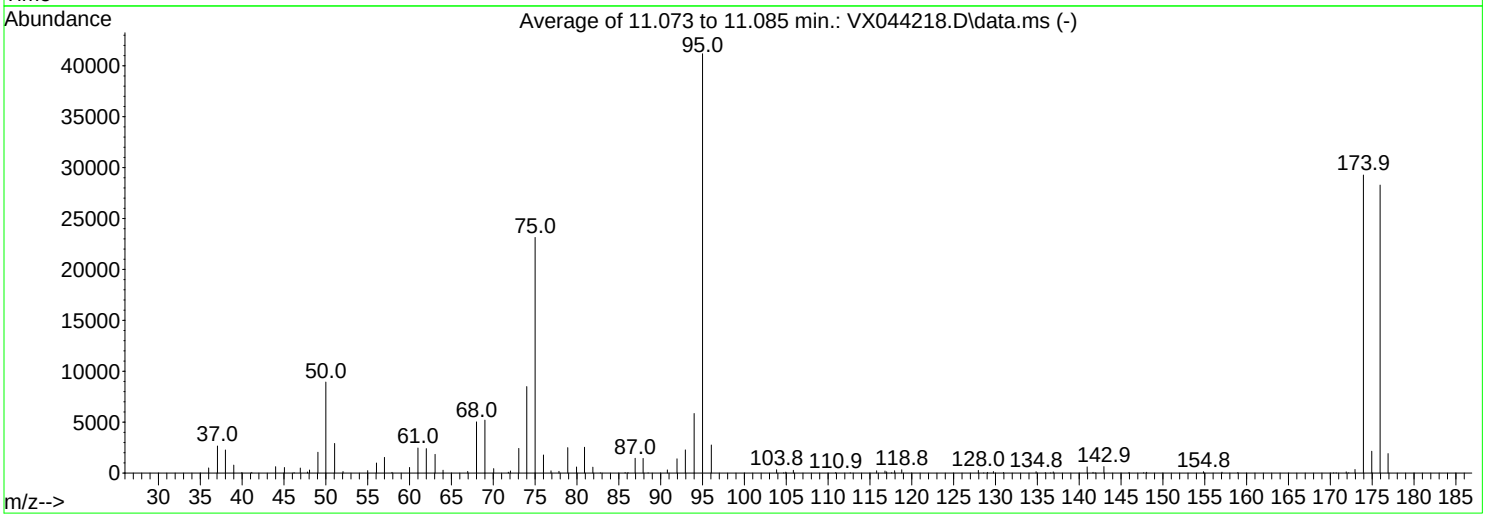
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044218.D
Acq On : 11 Dec 2024 10:13
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

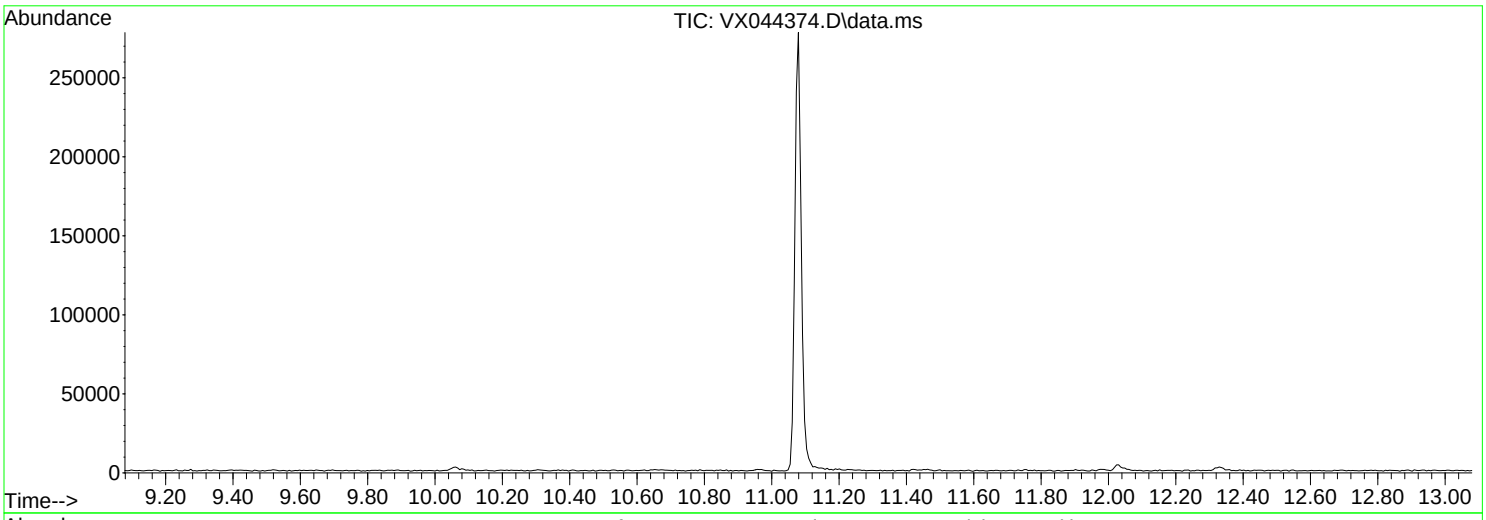
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	8939	PASS
75	95	30	60	56.2	23141	PASS
95	95	100	100	100.0	41184	PASS
96	95	5	9	6.7	2759	PASS
173	174	0.00	2	1.2	353	PASS
174	95	50	100	71.1	29272	PASS
175	174	5	9	7.3	2147	PASS
176	174	95	101	96.6	28285	PASS
177	176	5	9	6.8	1915	PASS

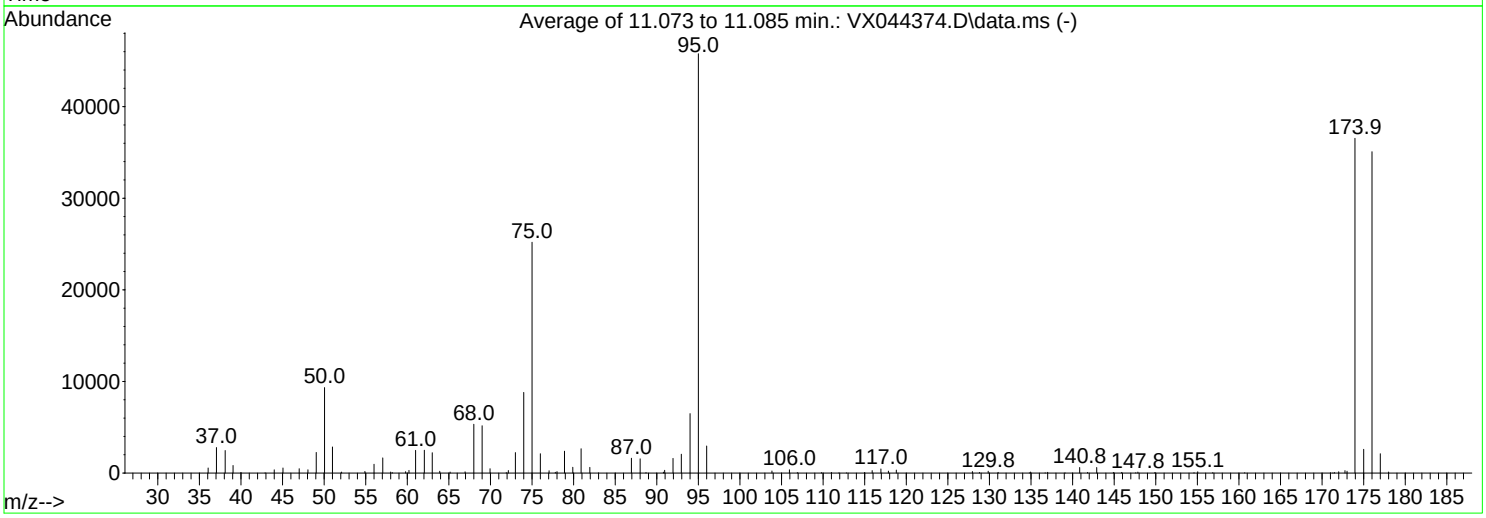
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044374.D
Acq On : 18 Dec 2024 08:15
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

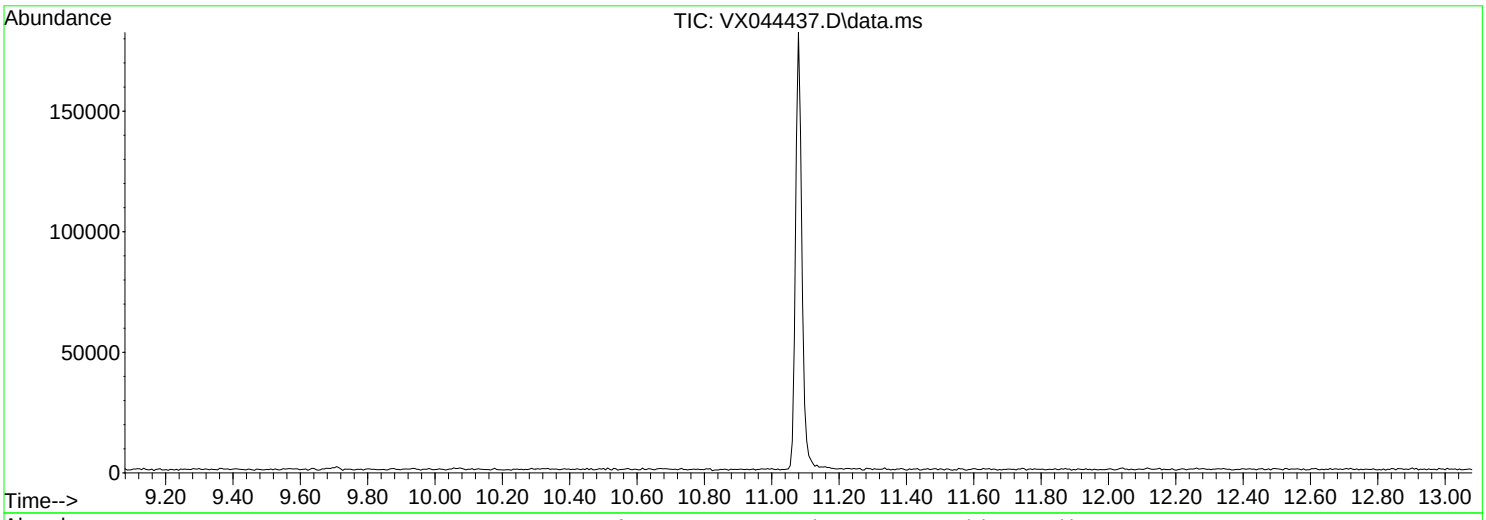
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	9332	PASS
75	95	30	60	55.1	25200	PASS
95	95	100	100	100.0	45776	PASS
96	95	5	9	6.5	2957	PASS
173	174	0.00	2	0.7	269	PASS
174	95	50	100	79.8	36544	PASS
175	174	5	9	7.1	2594	PASS
176	174	95	101	96.0	35083	PASS
177	176	5	9	6.0	2112	PASS

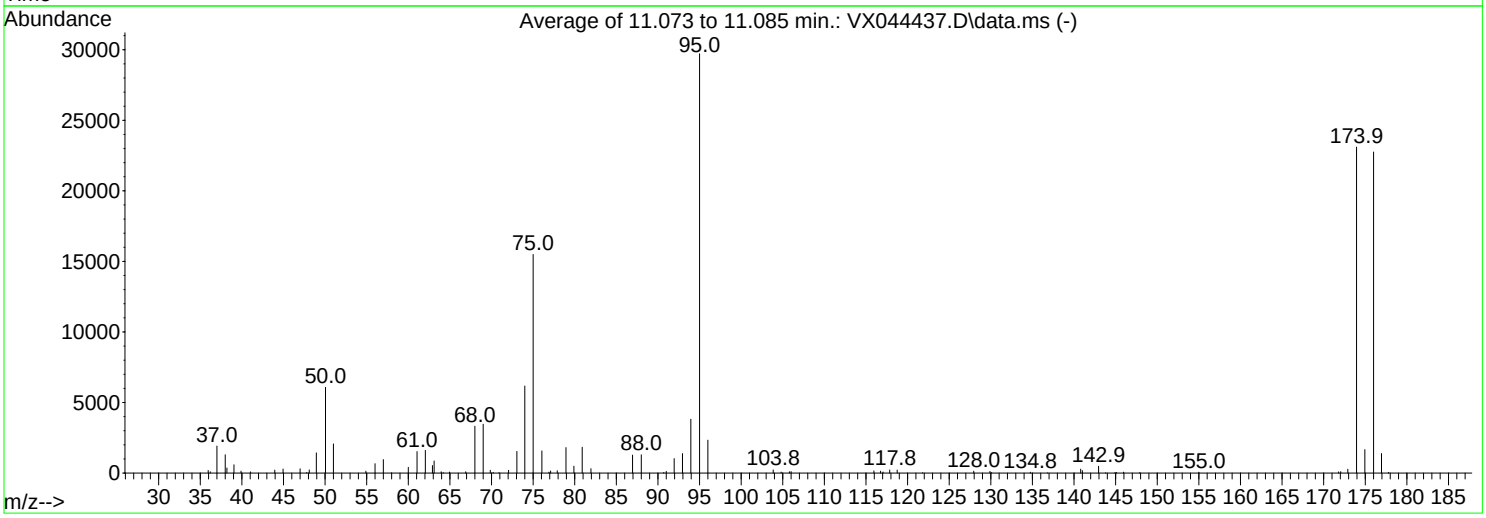
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044437.D
Acq On : 20 Dec 2024 08:49
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Title : SW846 8260
Last Update : Thu Dec 12 04:28:14 2024





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	6077	PASS
75	95	30	60	52.1	15496	PASS
95	95	100	100	100.0	29717	PASS
96	95	5	9	7.8	2332	PASS
173	174	0.00	2	1.2	275	PASS
174	95	50	100	77.7	23101	PASS
175	174	5	9	7.2	1663	PASS
176	174	95	101	98.5	22752	PASS
177	176	5	9	6.1	1389	PASS

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBL01	SDG No.:	P5281
Lab Sample ID:	VX1218WBL01	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
VX044377.D	1		12/18/24 12:48	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBL01	SDG No.:	P5281
Lab Sample ID:	VX1218WBL01	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
VX044377.D	1		12/18/24 12:48	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.6		81 - 118		91%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	123000	5.55				
540-36-3	1,4-Difluorobenzene	230000	6.757				
3114-55-4	Chlorobenzene-d5	201000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	82800	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBL01	SDG No.:	P5281
Lab Sample ID:	VX1218WBL01	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
VX044377.D	1		12/18/24 12:48	VX121824

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\VX121824\
Data File : VX044377.D
Acq On : 18 Dec 2024 12:48
Operator : JC/MD
Sample : VX1218WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

Quant Time: Dec 19 00:42:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

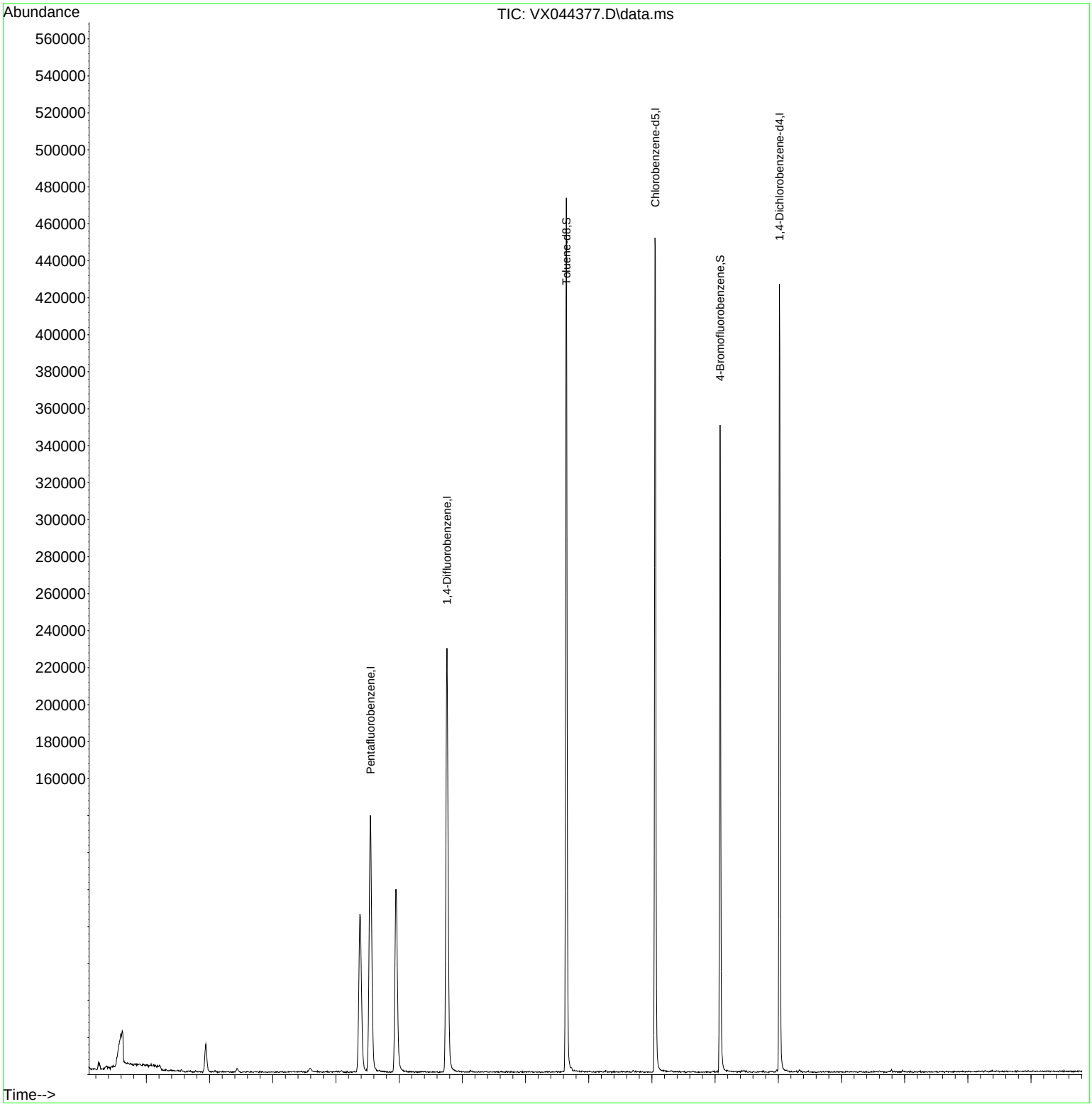
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	123193	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	230004	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	201476	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	82810	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	98598	45.648	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.300%			
35) Dibromofluoromethane	5.379	113	75023	47.096	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.200%			
50) Toluene-d8	8.647	98	275354	51.235	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.480%			
62) 4-Bromofluorobenzene	11.079	95	88658	47.211	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.420%			
Target Compounds						Qvalue

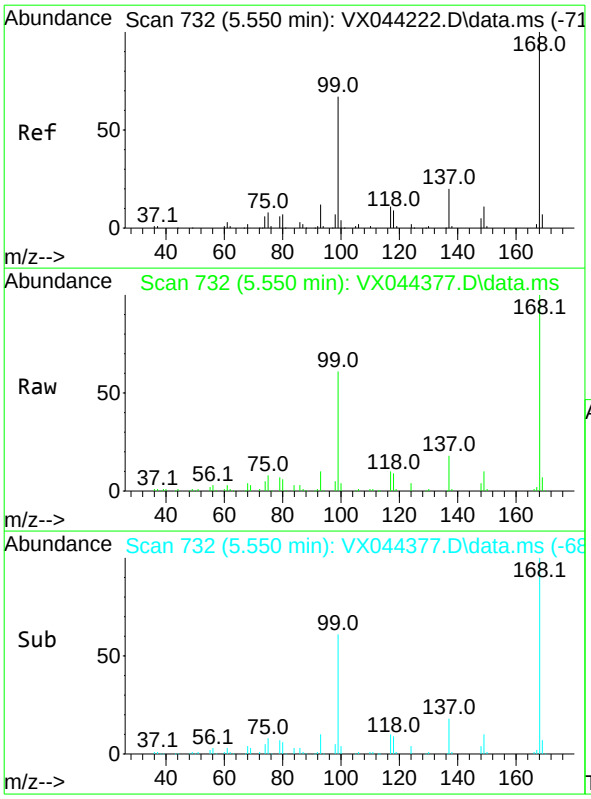
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044377.D
Acq On : 18 Dec 2024 12:48
Operator : JC/MD
Sample : VX1218WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

Quant Time: Dec 19 00:42:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



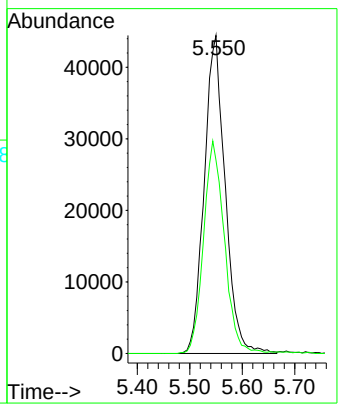


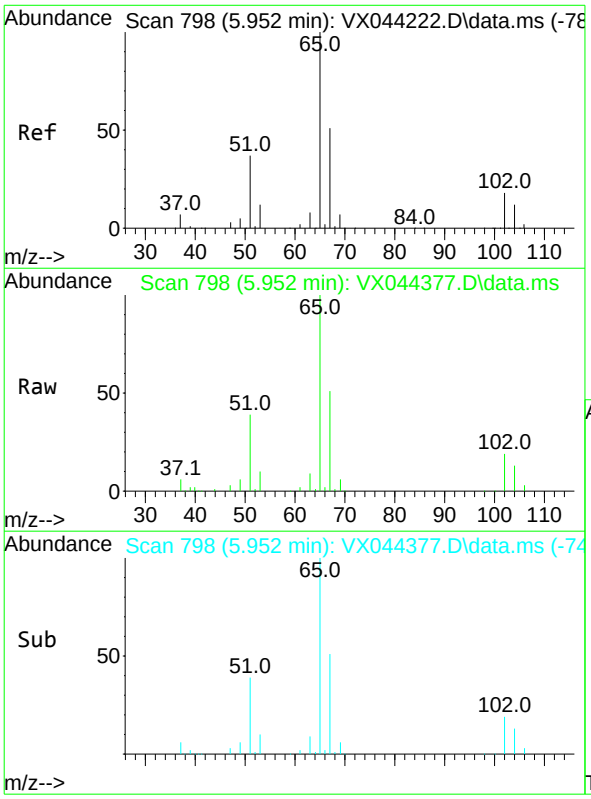
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044377.D
Acq: 18 Dec 2024 12:48

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

Tgt Ion:168 Resp: 123193

Ion	Ratio	Lower	Upper
168	100		
99	60.8	53.4	80.0

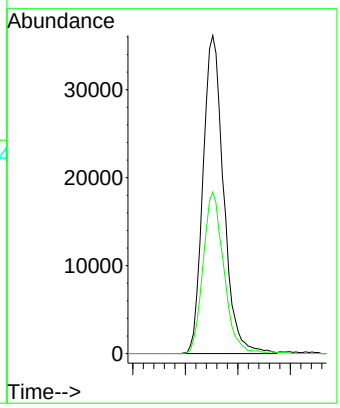


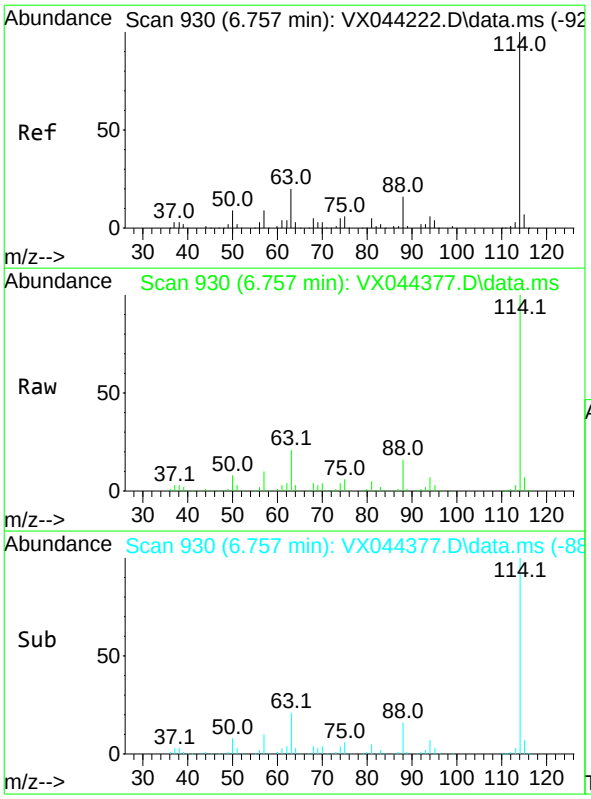


#33
1,2-Dichloroethane-d4
Concen: 45.648 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044377.D
Acq: 18 Dec 2024 12:48

Tgt Ion: 65 Resp: 98598

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6



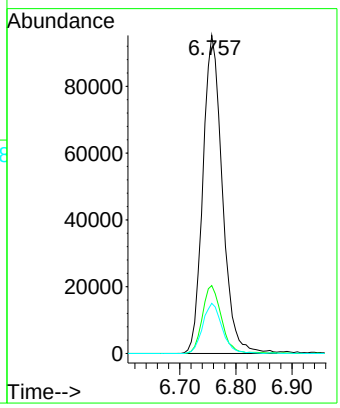


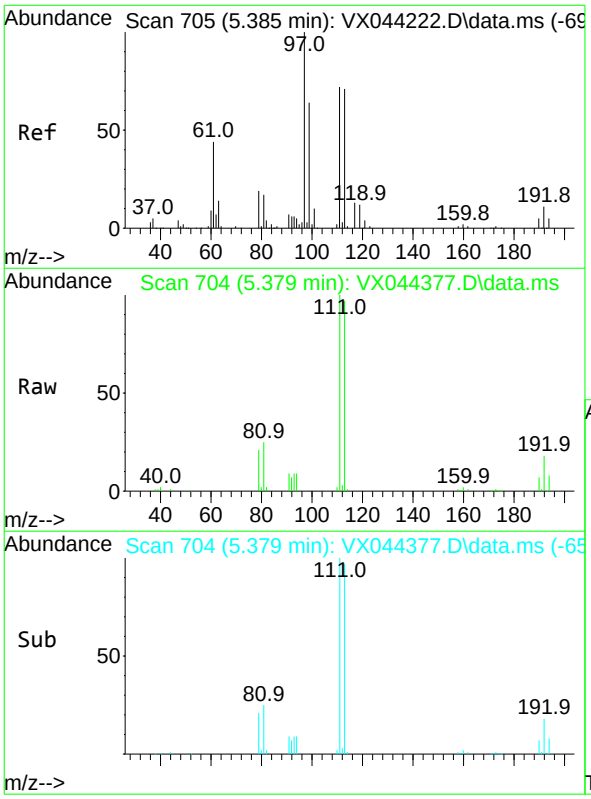
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044377.D
Acq: 18 Dec 2024 12:48

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

Tgt Ion:114 Resp: 230004

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.6
88	15.8	0.0	31.8

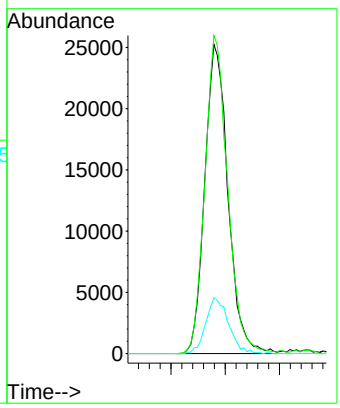


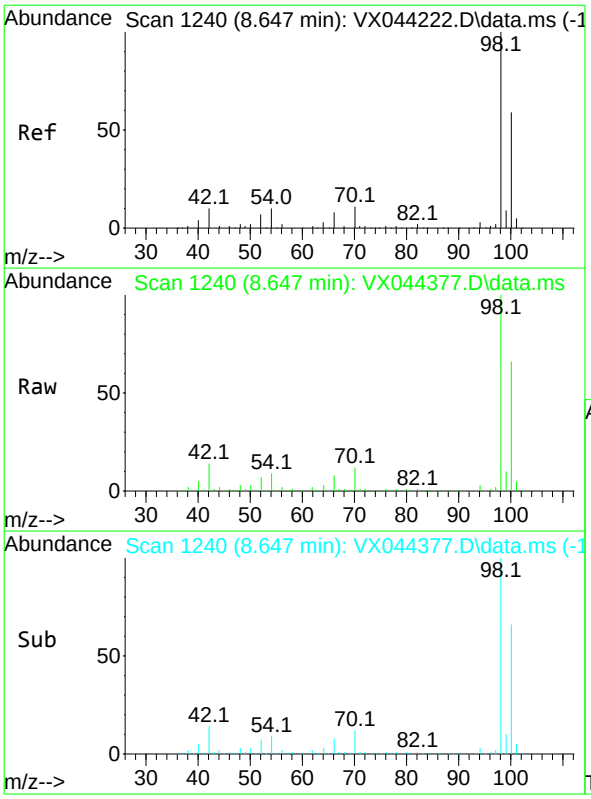


#35
Dibromofluoromethane
Concen: 47.096 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044377.D
Acq: 18 Dec 2024 12:48

Tgt Ion:113 Resp: 75023

Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.4	120.6
192	17.7	13.3	19.9



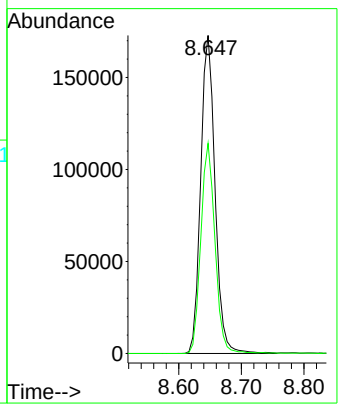


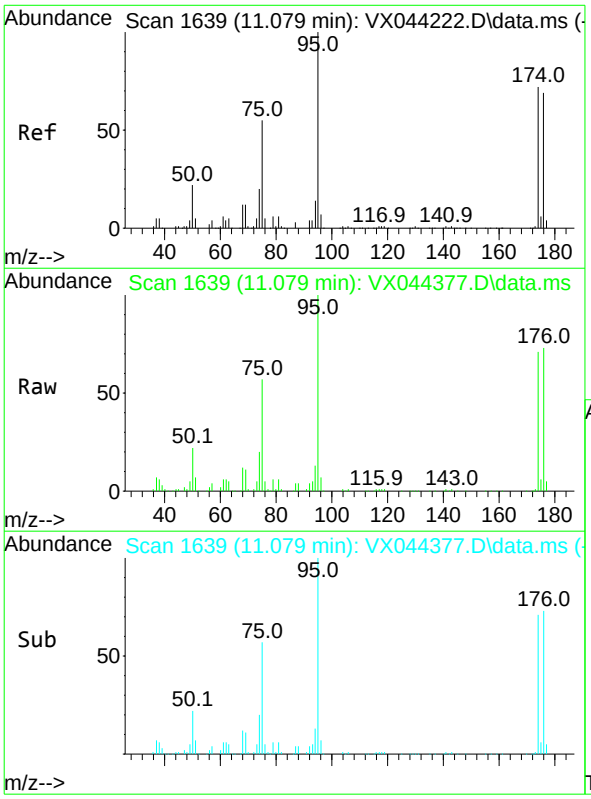
#50
Toluene-d8
Concen: 51.235 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044377.D
Acq: 18 Dec 2024 12:48

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

Tgt Ion: 98 Resp: 275354

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3

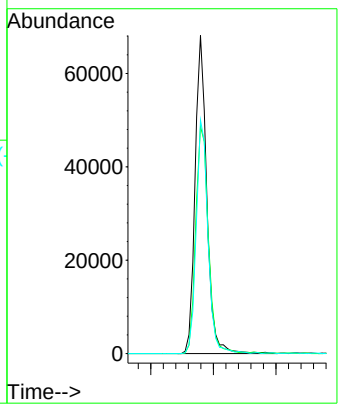


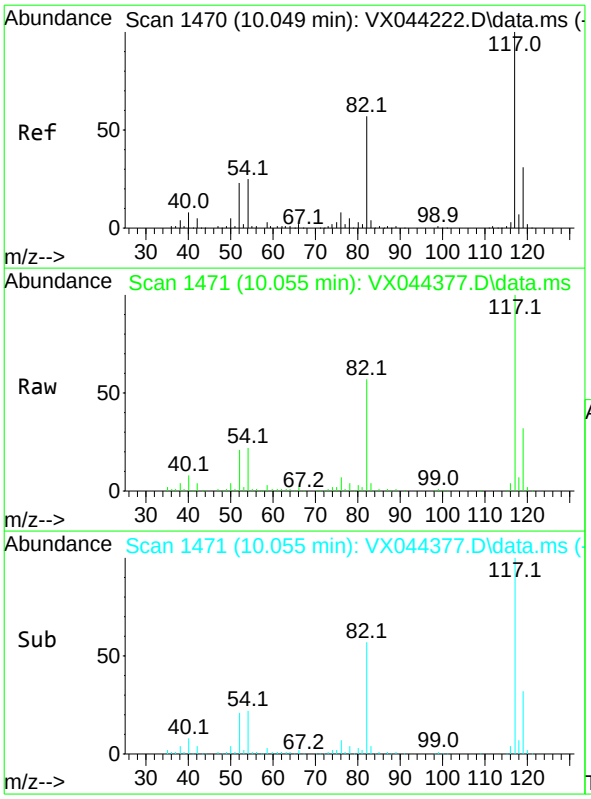


#62
4-Bromofluorobenzene
Concen: 47.211 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044377.D
Acq: 18 Dec 2024 12:48

Tgt Ion: 95 Resp: 88658

Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	145.8
176	73.6	0.0	137.8



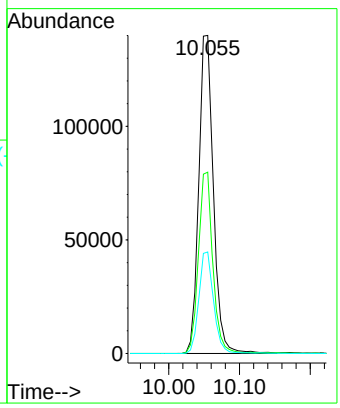


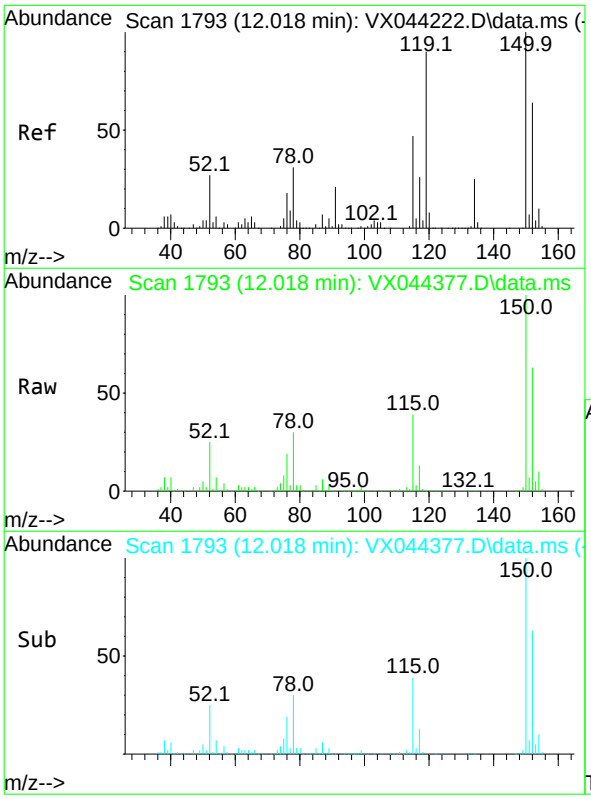
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044377.D
Acq: 18 Dec 2024 12:48

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

Tgt Ion:117 Resp: 201476

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.8	68.8
119	31.9	25.0	37.4

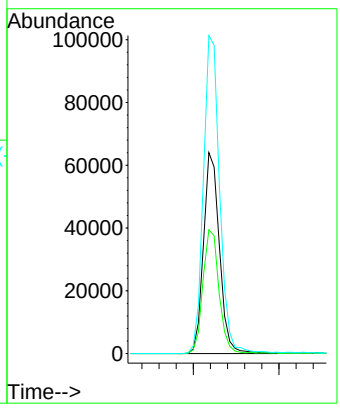




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044377.D
Acq: 18 Dec 2024 12:48

Tgt Ion:152 Resp: 82810

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.5	133.3
150	161.9	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBL01	SDG No.:	P5281
Lab Sample ID:	VX1220WBL01	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
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.21	0.50	1.00	ug/L
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
79-20-9	Methyl Acetate	0.75	U	0.60	0.75	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
110-82-7	Cyclohexane	2.50	U	1.60	2.50	5.00	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
74-97-5	Bromochloromethane	0.50	U	0.18	0.50	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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBL01	SDG No.:	P5281
Lab Sample ID:	VX1220WBL01	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
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.16	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
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.1		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	218000	6.757				
3114-55-4	Chlorobenzene-d5	194000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	81000	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBL01	SDG No.:	P5281
Lab Sample ID:	VX1220WBL01	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
VX044440.D	1		12/20/24 10:23	VX122024

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\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Time: Dec 20 22:20:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

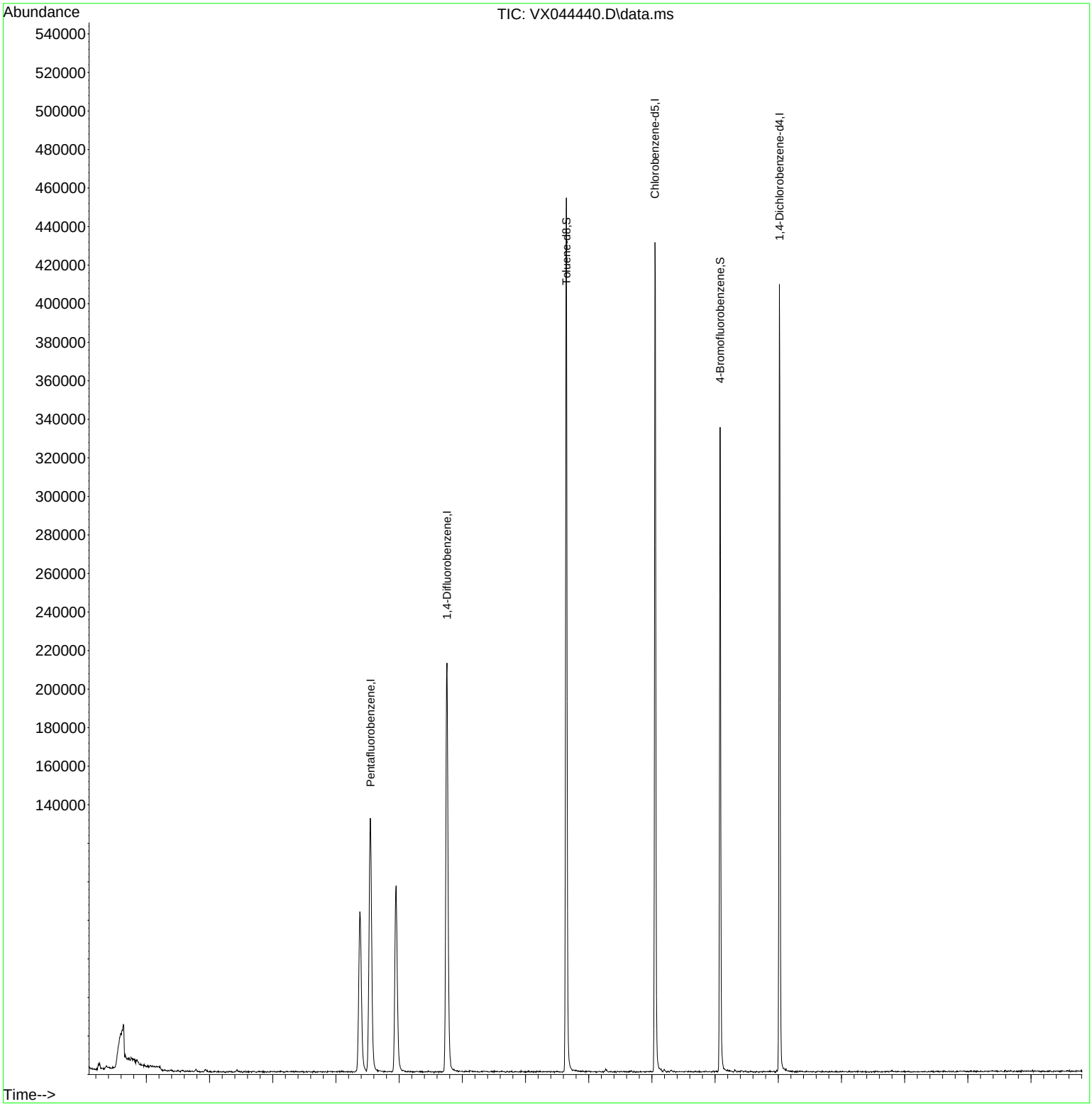
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	120864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218417	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	193836	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	81005	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	93379	44.065	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.120%			
35) Dibromofluoromethane	5.379	113	71852	47.498	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.000%			
50) Toluene-d8	8.647	98	265638	52.050	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.100%			
62) 4-Bromofluorobenzene	11.079	95	86300	48.393	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.780%			
Target Compounds						Qvalue

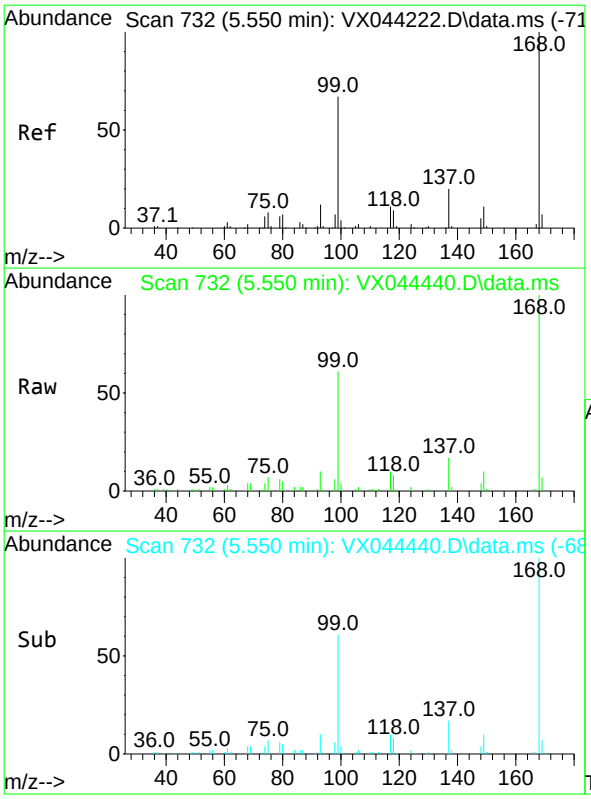
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044440.D
Acq On : 20 Dec 2024 10:23
Operator : JC/MD
Sample : VX1220WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Quant Time: Dec 20 22:20:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



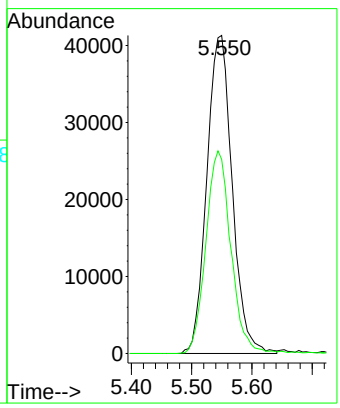


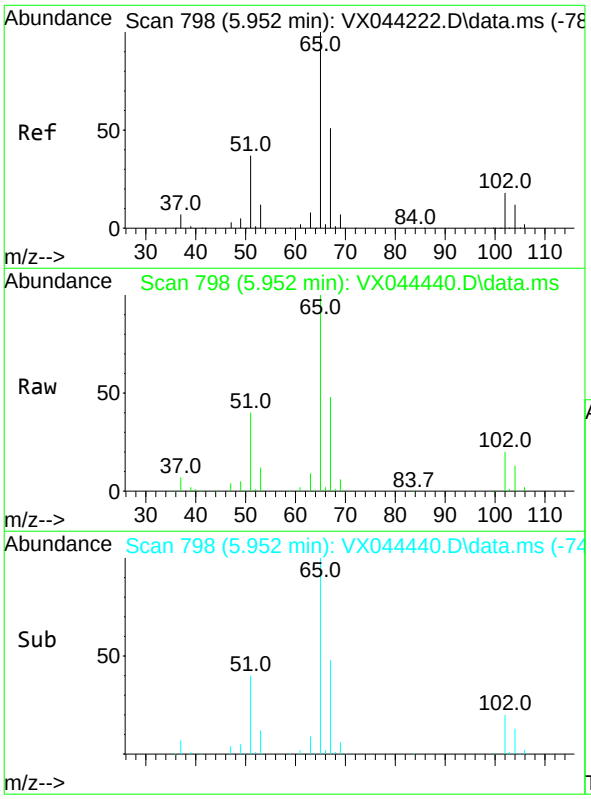
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Tgt Ion:168 Resp: 120864

Ion	Ratio	Lower	Upper
168	100		
99	61.0	53.4	80.0

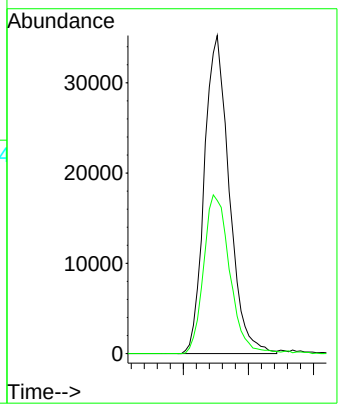


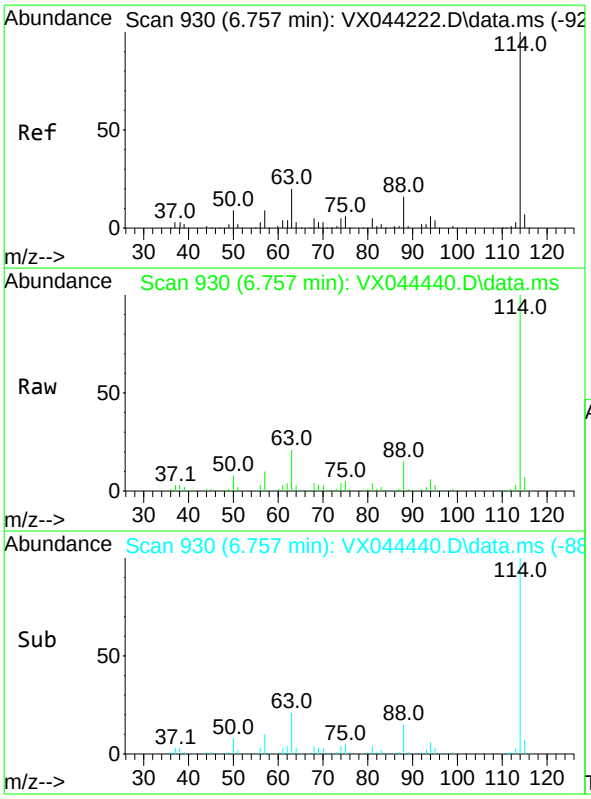


#33
1,2-Dichloroethane-d4
Concen: 44.065 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Tgt Ion: 65 Resp: 93379

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	101.6



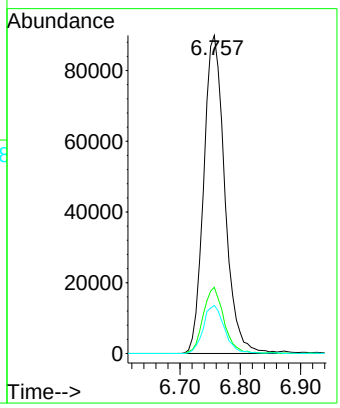


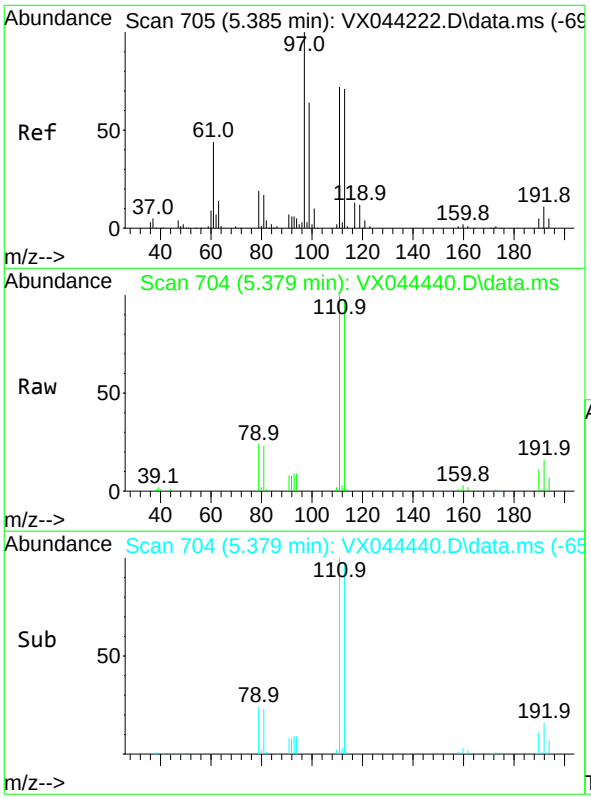
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Tgt Ion:114 Resp: 218417

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.6
88	15.1	0.0	31.8

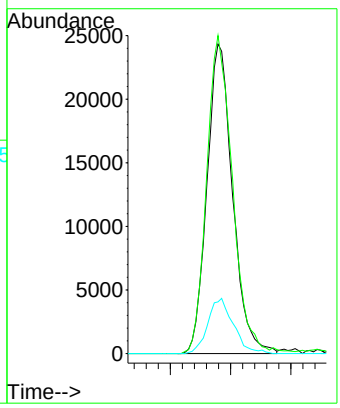


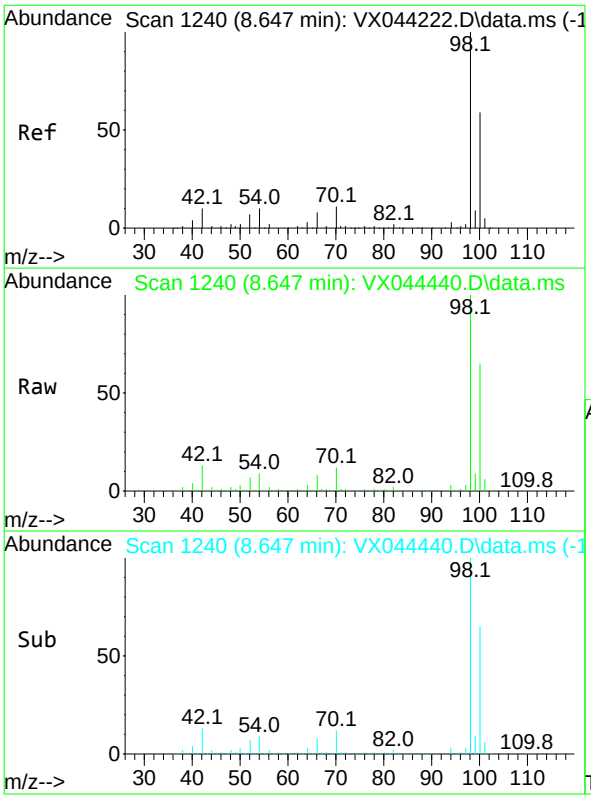


#35
Dibromofluoromethane
Concen: 47.498 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Tgt Ion:113 Resp: 71852

Ion	Ratio	Lower	Upper
113	100		
111	103.7	80.4	120.6
192	17.8	13.3	19.9



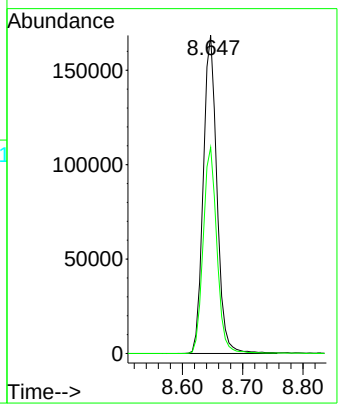


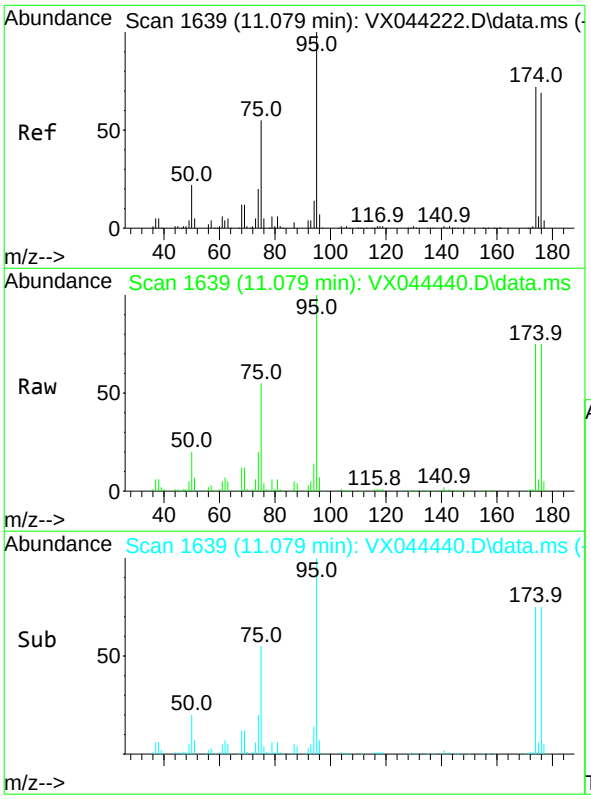
#50
Toluene-d8
Concen: 52.050 ug/l
RT: 8.647 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Tgt Ion: 98 Resp: 265638

Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.5	77.3

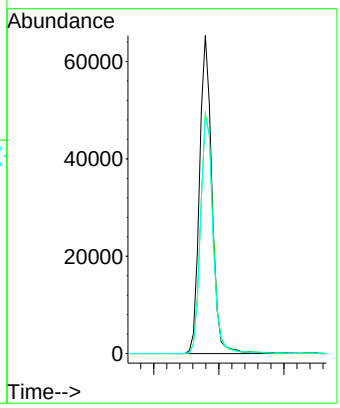


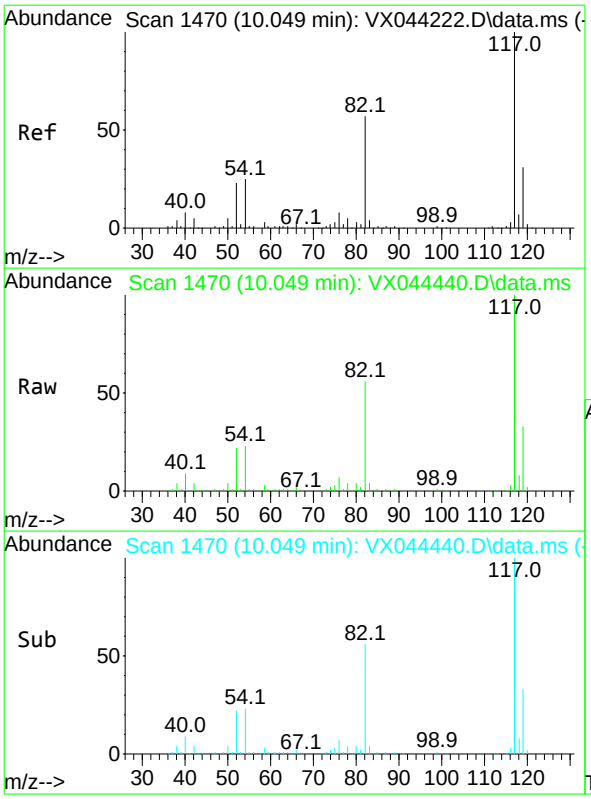


#62
4-Bromofluorobenzene
Concen: 48.393 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Tgt Ion: 95 Resp: 86300

Ion	Ratio	Lower	Upper
95	100		
174	77.9	0.0	145.8
176	75.4	0.0	137.8



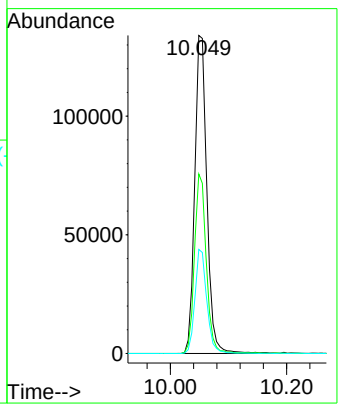


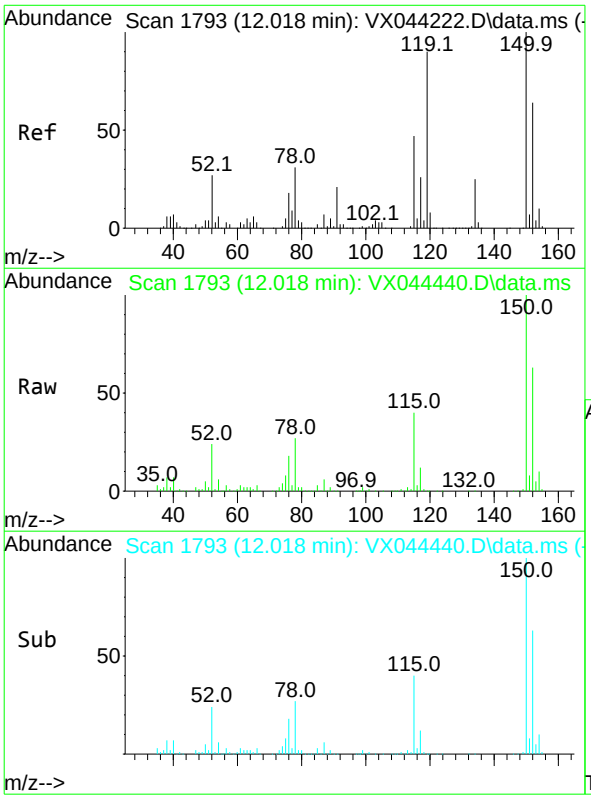
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBL01

Tgt Ion:117 Resp: 193836

Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.7	25.0	37.4

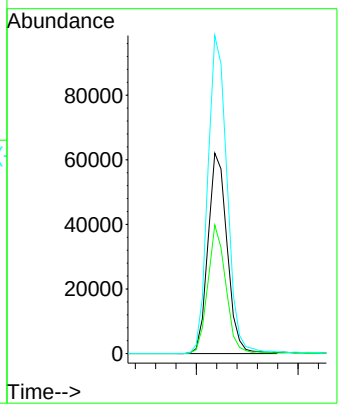




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044440.D
Acq: 20 Dec 2024 10:23

Tgt Ion:152 Resp: 81005

Ion	Ratio	Lower	Upper
152	100		
115	60.9	44.5	133.3
150	161.2	0.0	353.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBS01	SDG No.:	P5281
Lab Sample ID:	VX1218WBS01	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
VX044378.D	1		12/18/24 13:11	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.9		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	19.9		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	19.5		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	17.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.1		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.8		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.7		0.26	0.75	1.00	ug/L
67-64-1	Acetone	80.4		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	19.1		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.4		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	18.5		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.7		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.2		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	19.2		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	89.3		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	18.9		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	17.5		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	18.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.7		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	20.1		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.1		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	18.8		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	94.8		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.4		0.18	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBS01	SDG No.:	P5281
Lab Sample ID:	VX1218WBS01	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
VX044378.D	1		12/18/24 13:11	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.8		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.3		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	93.3		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.3		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.9		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.6		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.3		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.3		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.2		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.4		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	18.7		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.4		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.9		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.8		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.0		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.5		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.2		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.7		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.2		81 - 118		94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.8		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	152000	5.544				
540-36-3	1,4-Difluorobenzene	272000	6.757				
3114-55-4	Chlorobenzene-d5	234000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	102000	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBS01	SDG No.:	P5281
Lab Sample ID:	VX1218WBS01	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
VX044378.D	1		12/18/24 13:11	VX121824

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\VX121824\
Data File : VX044378.D
Acq On : 18 Dec 2024 13:11
Operator : JC/MD
Sample : VX1218WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 00:42:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	152020	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	272118	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	233700	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	101950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	125769	47.186	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.380%			
35) Dibromofluoromethane	5.379	113	95224	50.526	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.060%			
50) Toluene-d8	8.647	98	323070	50.811	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.620%			
62) 4-Bromofluorobenzene	11.079	95	107025	48.171	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	46716	19.874	ug/l	98
3) Chloromethane	1.294	50	44741	19.904	ug/l	97
4) Vinyl Chloride	1.374	62	45549	19.450	ug/l	99
5) Bromomethane	1.593	94	28566	17.194	ug/l	97
6) Chloroethane	1.666	64	30702	21.055	ug/l	99
7) Trichlorofluoromethane	1.873	101	72219	15.753	ug/l	96
8) Diethyl Ether	2.136	74	26533	16.955	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	34946	18.837	ug/l	99
10) Methyl Iodide	2.447	142	47253	19.326	ug/l	97
11) Tert butyl alcohol	2.983	59	36875	98.163	ug/l #	94
12) 1,1-Dichloroethene	2.312	96	33505	19.663	ug/l	90
13) Acrolein	2.233	56	47760	87.831	ug/l	100
14) Allyl chloride	2.654	41	55053	19.397	ug/l	99
15) Acrylonitrile	3.068	53	100187	96.281	ug/l	99
16) Acetone	2.386	43	87362	80.396	ug/l	94
17) Carbon Disulfide	2.501	76	61883	19.106	ug/l	99
18) Methyl Acetate	2.703	43	51928	18.534	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	122343	18.399	ug/l	96
20) Methylene Chloride	2.782	84	40273	19.732	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	34770	19.200	ug/l	95
22) Diisopropyl ether	3.763	45	123430	19.313	ug/l	94
23) Vinyl Acetate	3.721	43	517012	99.503	ug/l	99
24) 1,1-Dichloroethane	3.605	63	69838	19.604	ug/l	99
25) 2-Butanone	4.562	43	137972	89.313	ug/l	99
26) 2,2-Dichloropropane	4.471	77	59180	20.448	ug/l	100
27) cis-1,2-Dichloroethene	4.489	96	43520	18.922	ug/l	98
28) Bromochloromethane	4.891	49	30568	17.498	ug/l	100
29) Tetrahydrofuran	5.007	42	92642	93.430	ug/l	97
30) Chloroform	5.092	83	74772	18.681	ug/l	92
31) Cyclohexane	5.458	56	55094	19.151	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	62289	18.748	ug/l	98
36) 1,1-Dichloropropene	5.690	75	44543	18.284	ug/l	98
37) Ethyl Acetate	4.721	43	58608	19.462	ug/l	99
38) Carbon Tetrachloride	5.672	117	48269	18.404	ug/l	99
39) Methylcyclohexane	7.379	83	56507	19.402	ug/l	98
40) Benzene	6.037	78	148380	20.060	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044378.D
Acq On : 18 Dec 2024 13:11
Operator : JC/MD
Sample : VX1218WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 00:42:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.916	41	30502	19.075 ug/l		98
42) 1,2-Dichloroethane	6.086	62	57603	18.905 ug/l		99
43) Isopropyl Acetate	6.342	43	90225	19.169 ug/l		99
44) Trichloroethene	7.123	130	35150	19.056 ug/l		99
45) 1,2-Dichloropropane	7.427	63	36377	19.250 ug/l		92
46) Dibromomethane	7.586	93	28009	19.105 ug/l		95
47) Bromodichloromethane	7.824	83	47492	18.757 ug/l		97
48) Methyl methacrylate	7.696	41	43221	18.917 ug/l		98
49) 1,4-Dioxane	7.659	88	9745	257.250 ug/l	#	68
51) 4-Methyl-2-Pentanone	8.574	43	286862	94.787 ug/l		100
52) Toluene	8.714	92	90242	19.428 ug/l		96
53) t-1,3-Dichloropropene	8.976	75	47729	18.774 ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	53718	19.485 ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	35702	19.348 ug/l		93
56) Ethyl methacrylate	9.116	69	55693	19.118 ug/l		98
57) 1,3-Dichloropropane	9.305	76	63353	19.724 ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	126572	86.145 ug/l		99
59) 2-Hexanone	9.433	43	204304	93.265 ug/l		98
60) Dibromochloromethane	9.518	129	33259	18.320 ug/l		98
61) 1,2-Dibromoethane	9.610	107	37294	19.855 ug/l		100
64) Tetrachloroethene	9.269	164	30384	19.589 ug/l		97
65) Chlorobenzene	10.079	112	97639	19.498 ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	31230	19.405 ug/l		98
67) Ethyl Benzene	10.189	91	167223	19.327 ug/l		100
68) m/p-Xylenes	10.299	106	124845	39.322 ug/l		98
69) o-Xylene	10.640	106	61740	19.219 ug/l		98
70) Styrene	10.652	104	99766	19.373 ug/l		97
71) Bromoform	10.799	173	18740	18.657 ug/l	#	100
73) Isopropylbenzene	10.963	105	159509	20.438 ug/l		100
74) N-amyl acetate	10.841	43	70274	19.483 ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	53907	19.886 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	43670m	19.185 ug/l		
77) Bromobenzene	11.195	156	37389	19.755 ug/l		100
78) n-propylbenzene	11.305	91	175046	20.292 ug/l		99
79) 2-Chlorotoluene	11.366	91	109103	19.557 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	128741	19.891 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	12897	20.003 ug/l		95
82) 4-Chlorotoluene	11.451	91	122217	19.783 ug/l		99
83) tert-Butylbenzene	11.713	119	129411	20.232 ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	129290	20.340 ug/l		99
85) sec-Butylbenzene	11.890	105	156306	20.129 ug/l		99
86) p-Isopropyltoluene	12.006	119	126037	19.501 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	65335	19.763 ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	66369	19.529 ug/l		99
89) n-Butylbenzene	12.329	91	103934	19.124 ug/l		99
90) Hexachloroethane	12.536	117	17384	18.426 ug/l		88
91) 1,2-Dichlorobenzene	12.335	146	65366	19.042 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	9208	17.498 ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	36183	19.227 ug/l		99
94) Hexachlorobutadiene	13.725	225	15368	20.302 ug/l		99
95) Naphthalene	13.774	128	139046	18.928 ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	39406	19.742 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044378.D
Acq On : 18 Dec 2024 13:11
Operator : JC/MD
Sample : VX1218WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 00:42:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

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\VX121824\
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Instrument :
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VX1218WBS01

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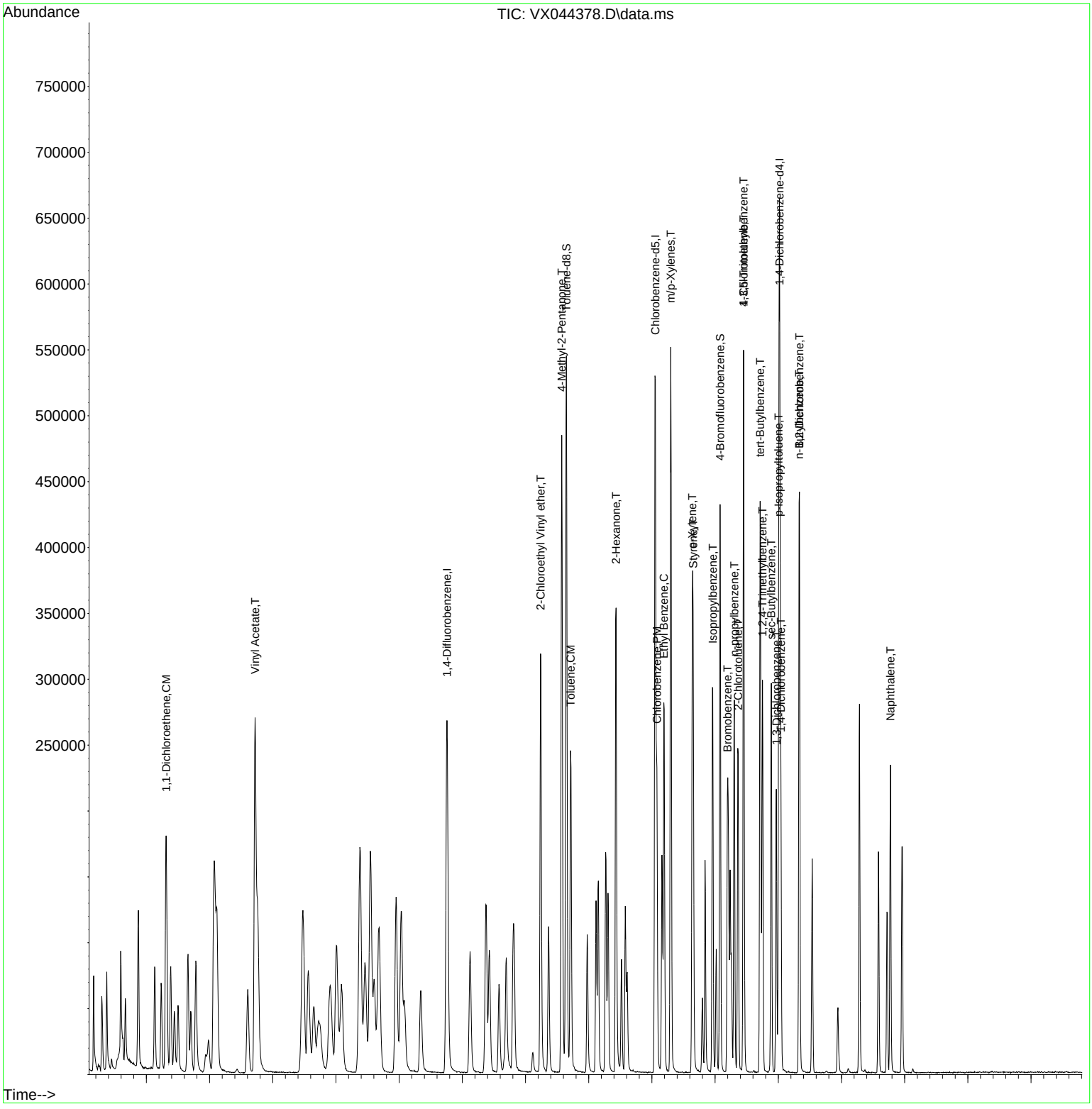
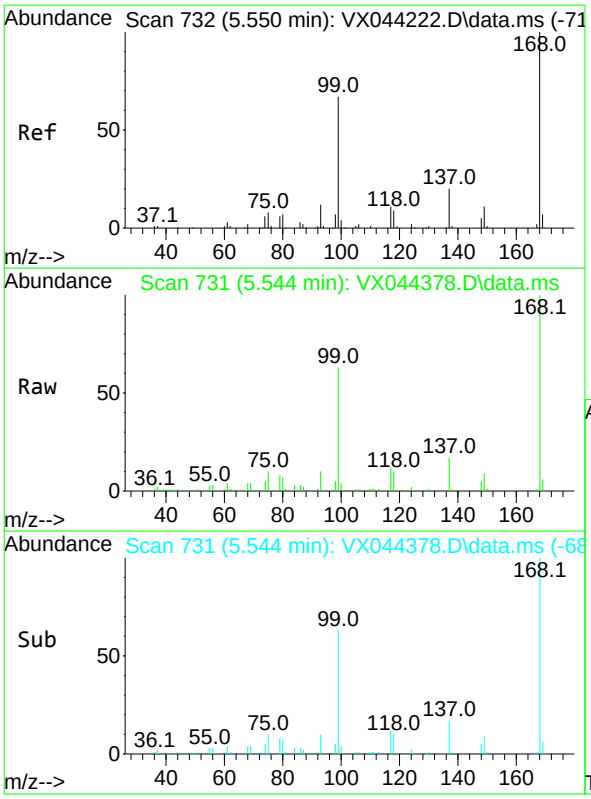
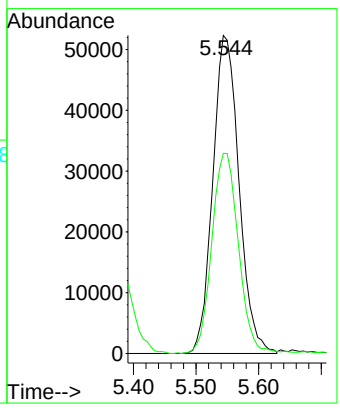




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:168 Resp: 152020

Ion	Ratio	Lower	Upper
168	100		
99	62.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

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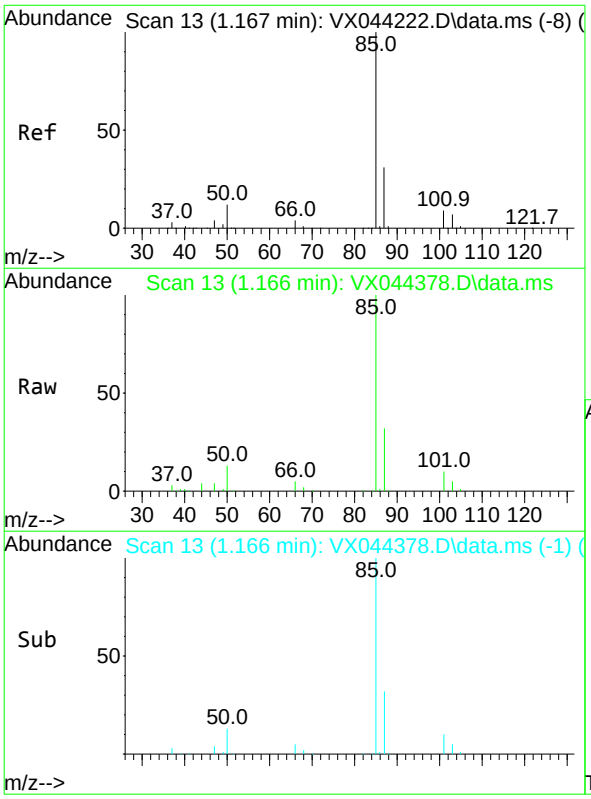
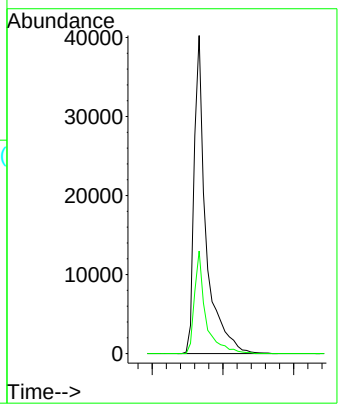
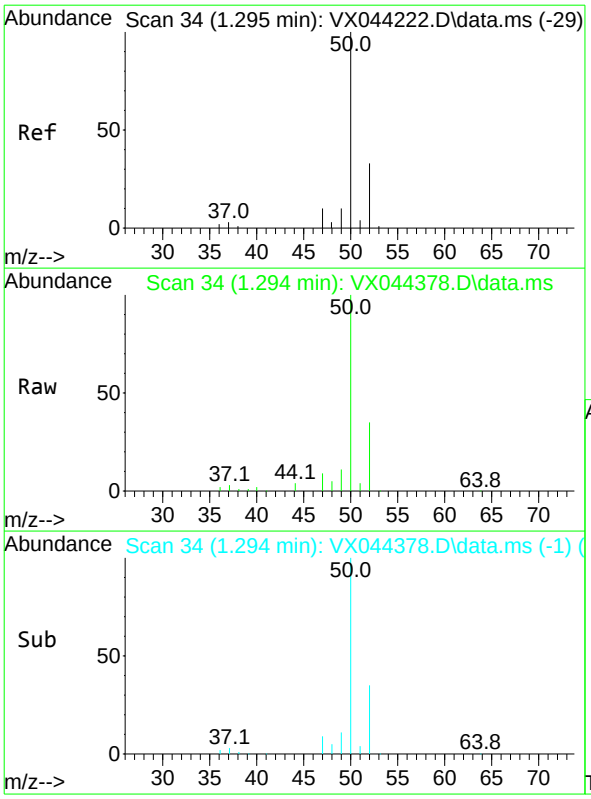


#2
Dichlorodifluoromethane
Concen: 19.874 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 85 Resp: 46716

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.4	46.4

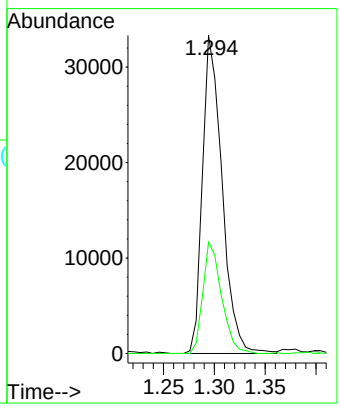




#3
Chloromethane
Concen: 19.904 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 50 Resp: 44741

Ion	Ratio	Lower	Upper
50	100		
52	35.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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APPROVED

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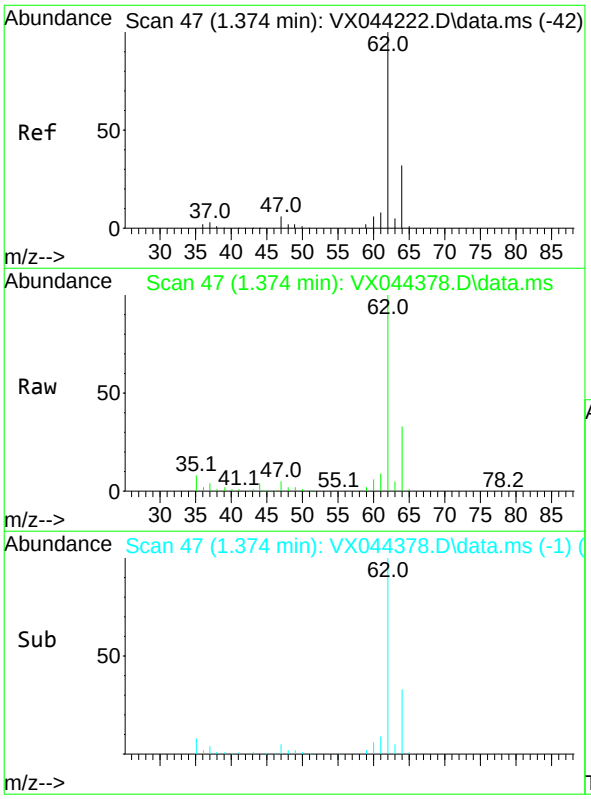
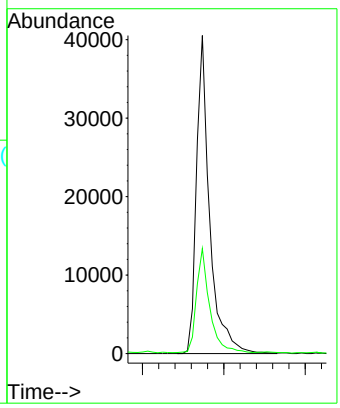
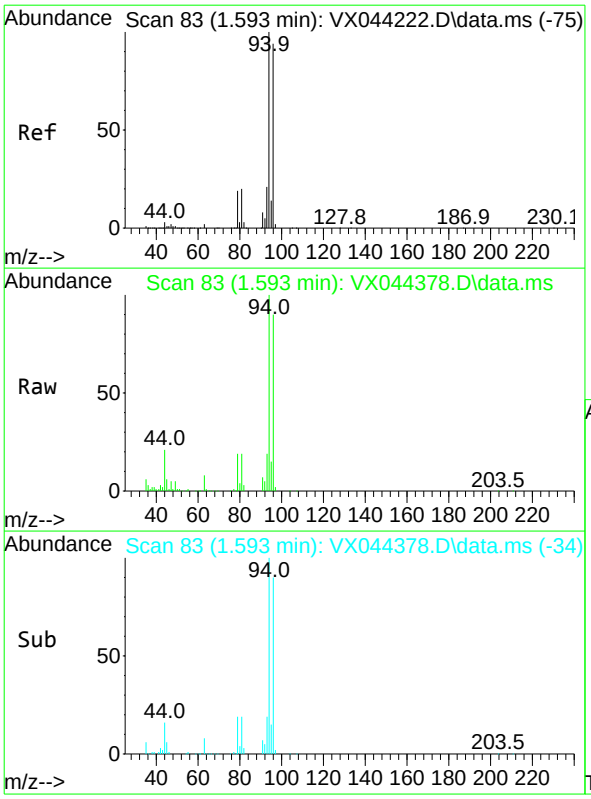


#4
Vinyl Chloride
Concen: 19.450 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 62 Resp: 45549

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.7	38.5

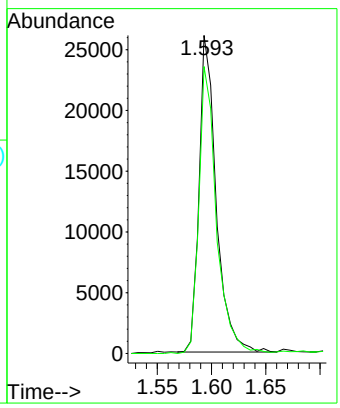




#5
Bromomethane
Concen: 17.194 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 94 Resp: 28566

Ion	Ratio	Lower	Upper
94	100		
96	90.6	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

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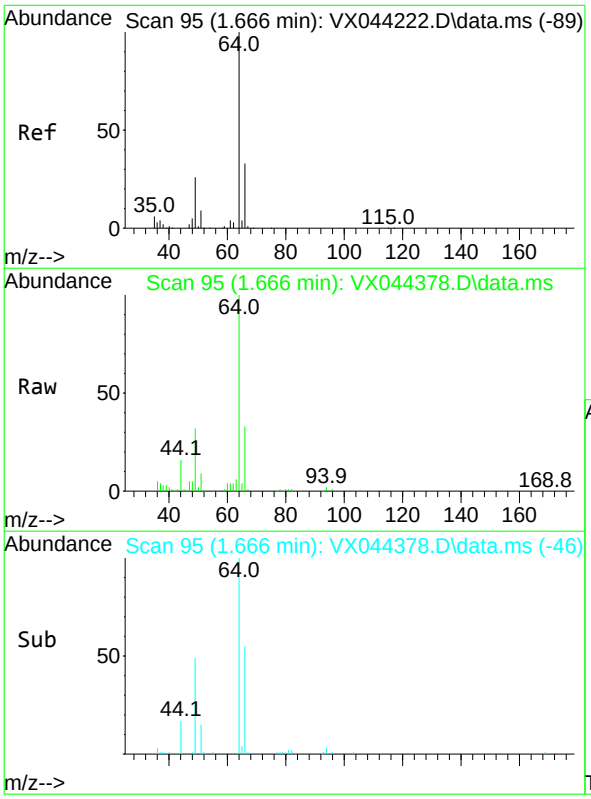
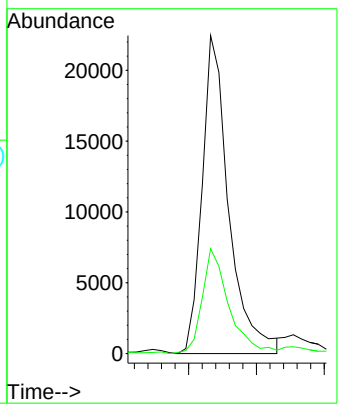
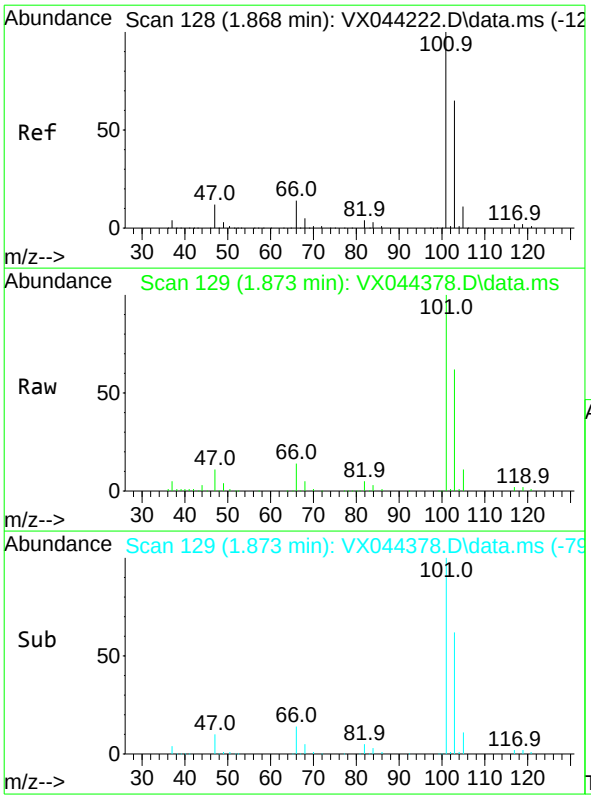


#6
Chloroethane
Concen: 21.055 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 64 Resp: 30702

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.6	39.8

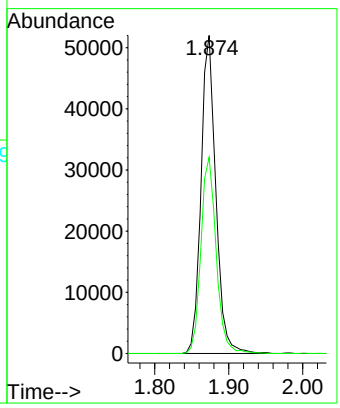




#7
Trichlorofluoromethane
Concen: 15.753 ug/l
RT: 1.873 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:101 Resp: 72219

Ion	Ratio	Lower	Upper
101	100		
103	61.7	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations
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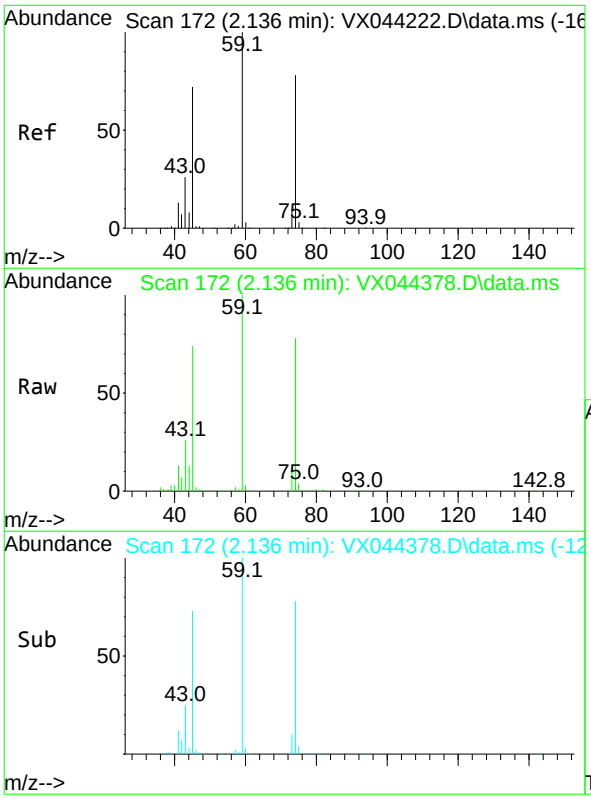
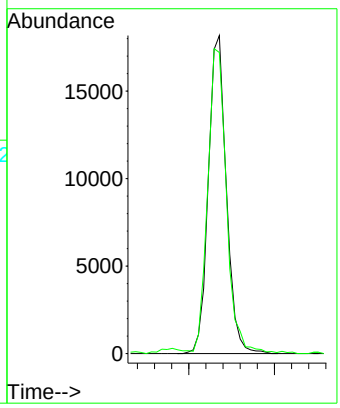
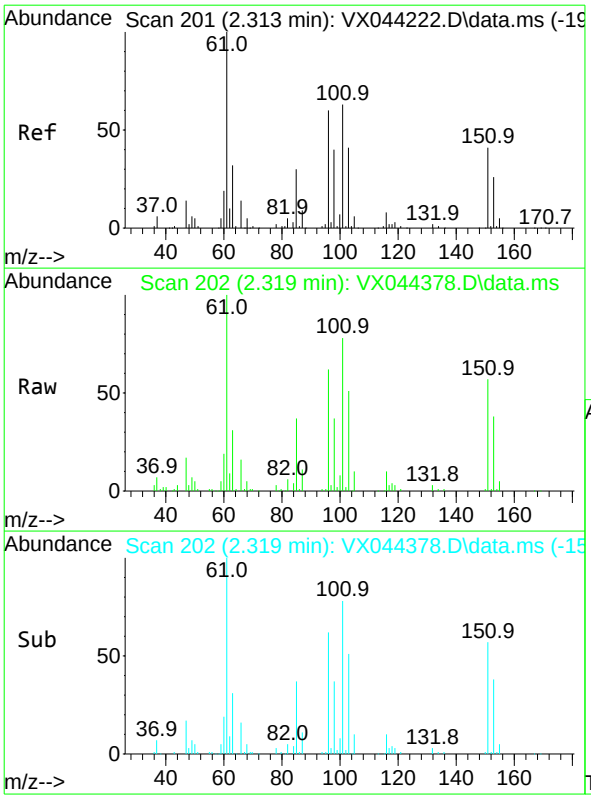


#8
Diethyl Ether
Concen: 16.955 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 74 Resp: 26533

Ion	Ratio	Lower	Upper
74	100		
45	98.9	48.4	145.0

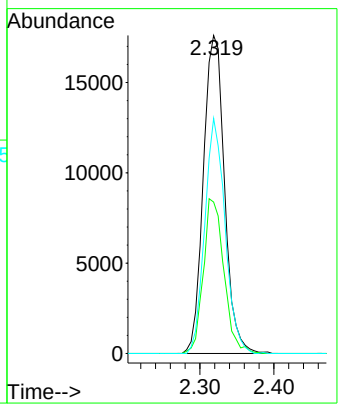




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.837 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:101 Resp: 34946

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.5	57.7
151	71.1	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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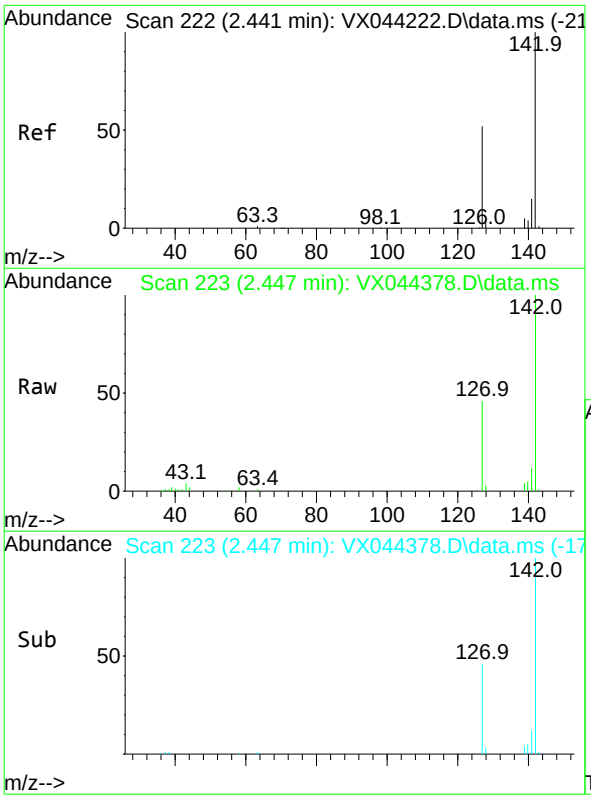
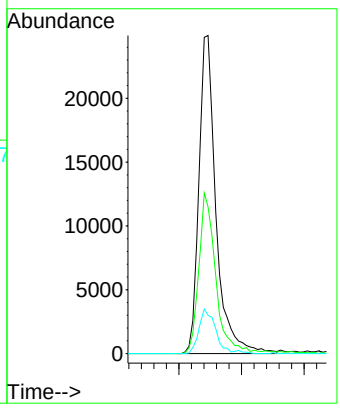
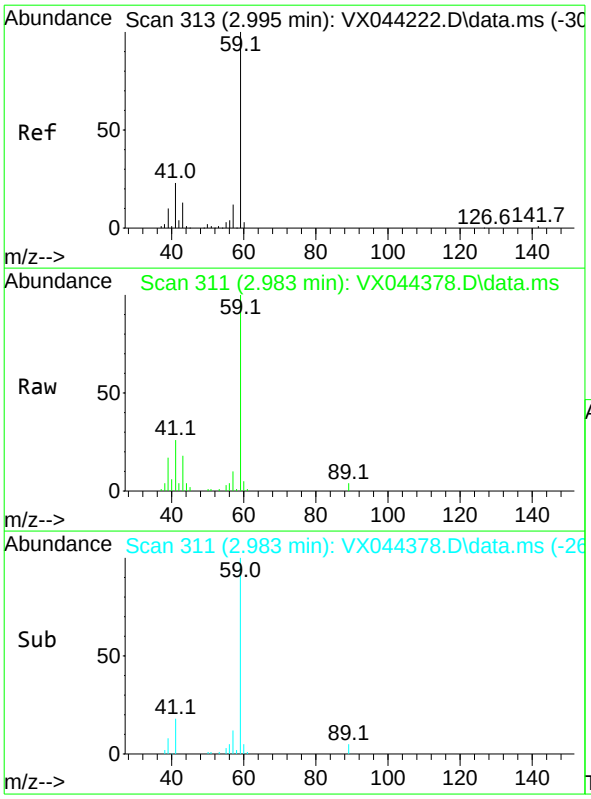


#10
Methyl Iodide
Concen: 19.326 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:142 Resp: 47253

Ion	Ratio	Lower	Upper
142	100		
127	49.9	41.8	62.8
141	13.5	11.5	17.3

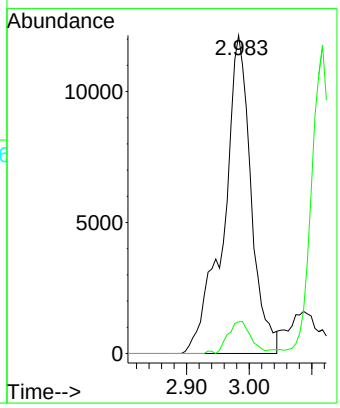




#11
Tert butyl alcohol
Concen: 98.163 ug/l
RT: 2.983 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 59 Resp: 36875

Ion	Ratio	Lower	Upper
59	100		
57	8.6	8.8	13.2#



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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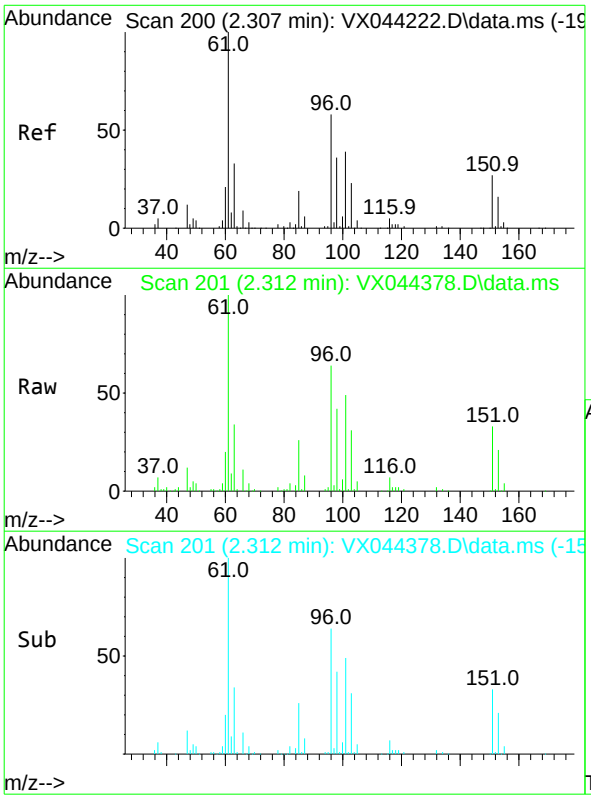
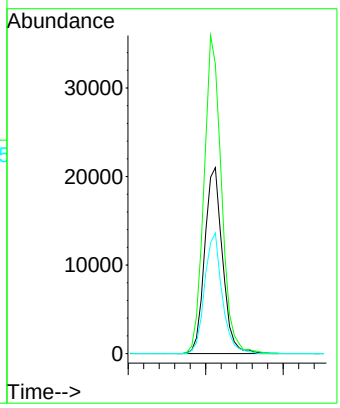
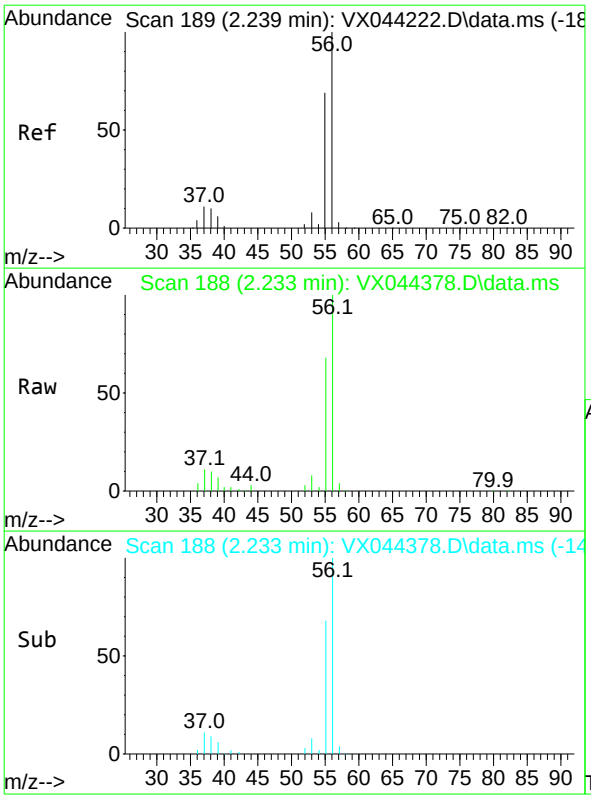


#12
1,1-Dichloroethene
Concen: 19.663 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 96 Resp: 33505

Ion	Ratio	Lower	Upper
96	100		
61	155.7	138.0	207.0
98	64.9	50.0	75.0

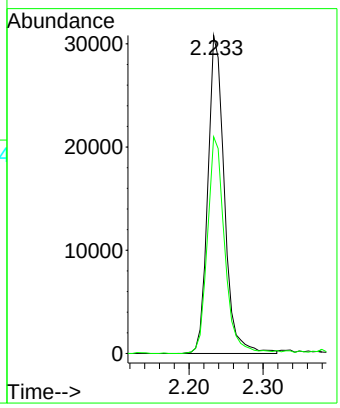




#13
Acrolein
Concen: 87.831 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 56 Resp: 47760

Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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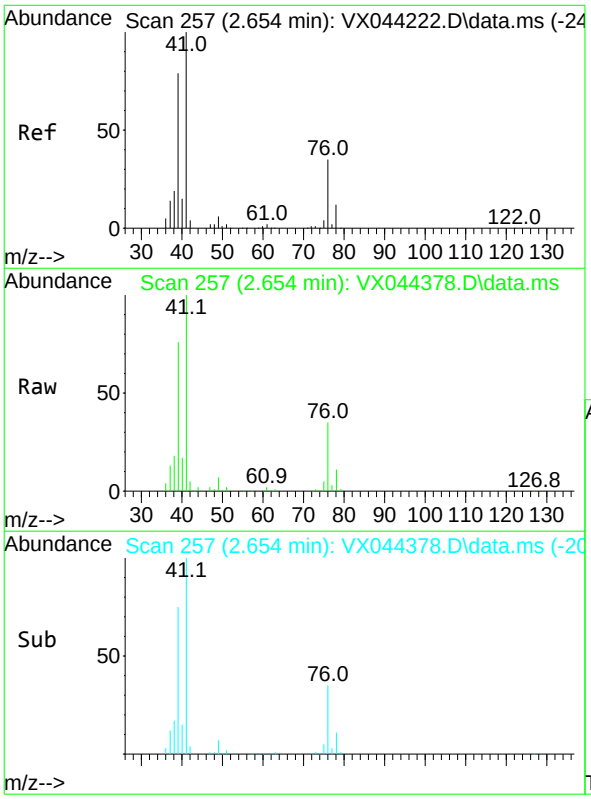
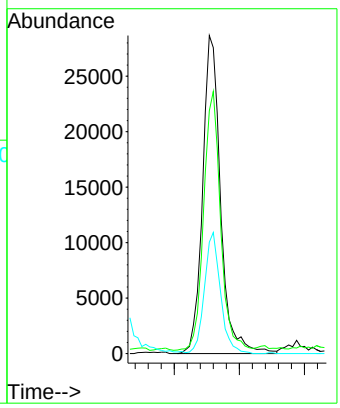
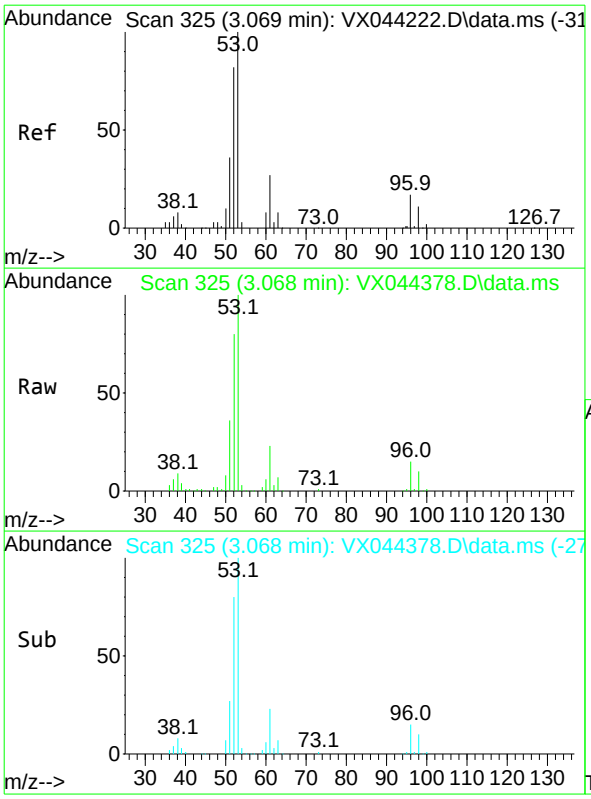


#14
Allyl chloride
Concen: 19.397 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 41 Resp: 55053

Ion	Ratio	Lower	Upper
41	100		
39	76.2	61.9	92.9
76	34.0	27.4	41.2





#15
Acrylonitrile
Concen: 96.281 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 53 Resp: 100187

Ion	Ratio	Lower	Upper
53	100		
52	82.3	67.4	101.0
51	37.9	30.3	45.5

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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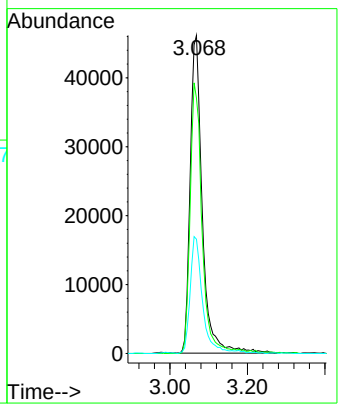
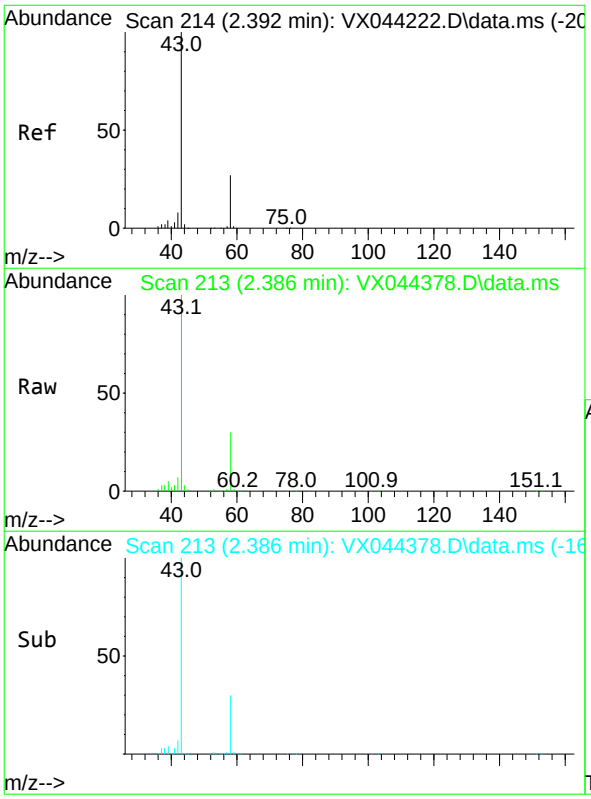
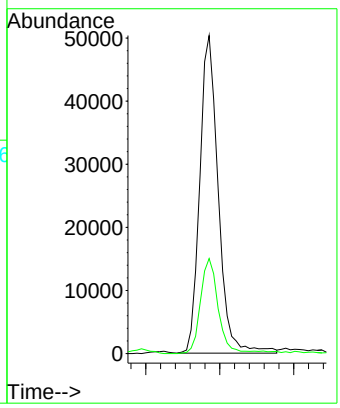


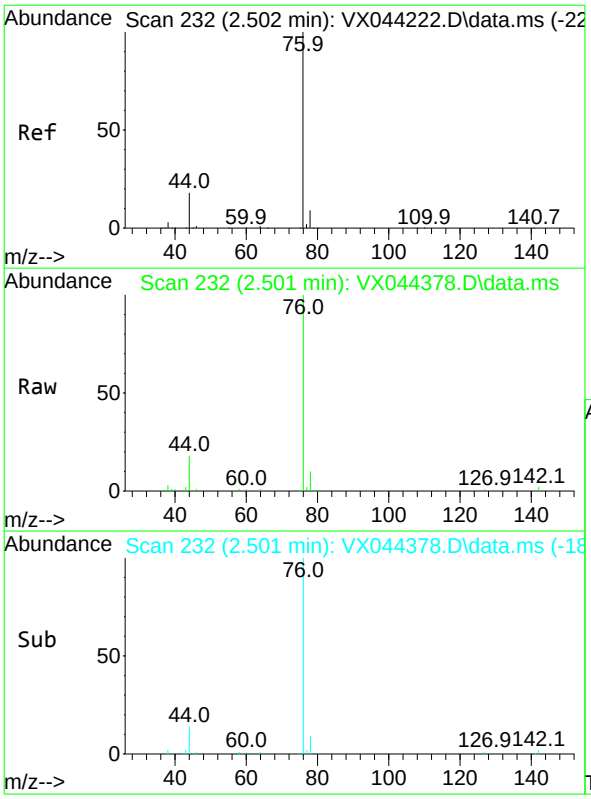


#16
Acetone
Concen: 80.396 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 87362

Ion	Ratio	Lower	Upper
43	100		
58	29.9	21.6	32.4

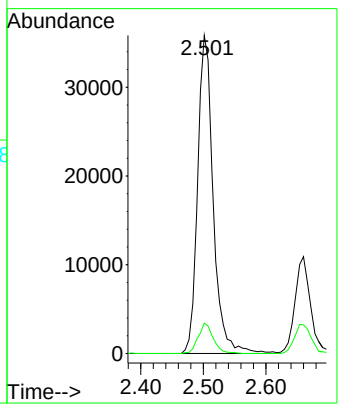




#17
Carbon Disulfide
Concen: 19.106 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 76 Resp: 61883

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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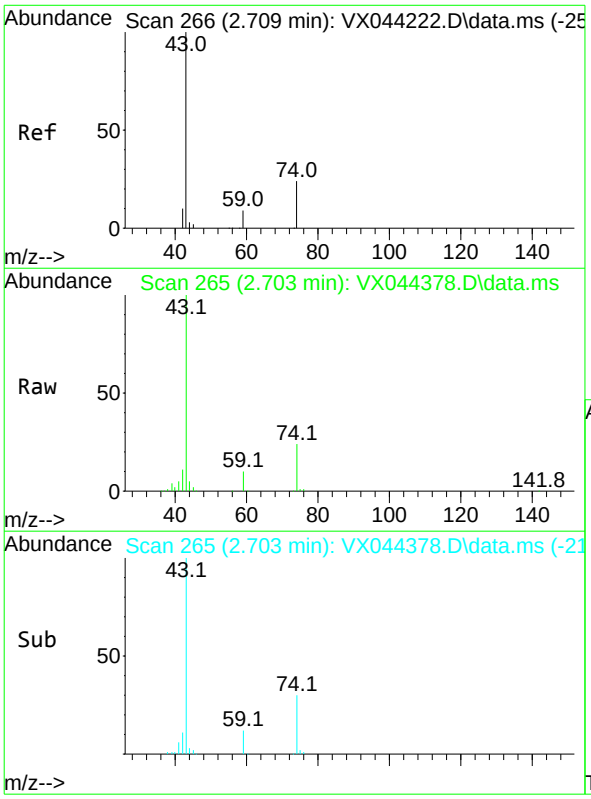
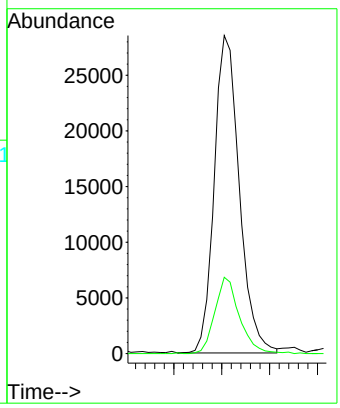
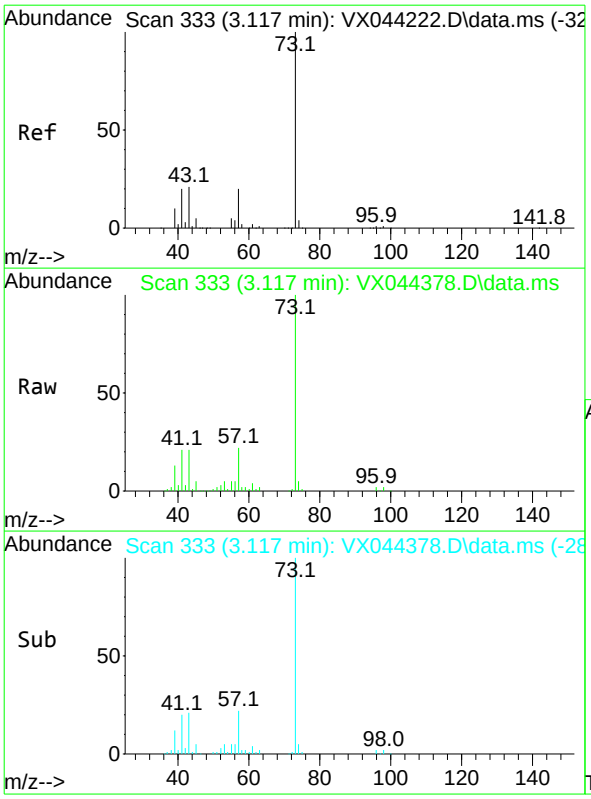


#18
Methyl Acetate
Concen: 18.534 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 51928

Ion	Ratio	Lower	Upper
43	100		
74	23.6	17.7	26.5

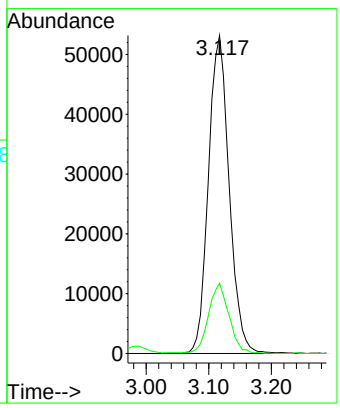




#19
Methyl tert-butyl Ether
Concen: 18.399 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 73 Resp: 122343

Ion	Ratio	Lower	Upper
73	100		
57	22.1	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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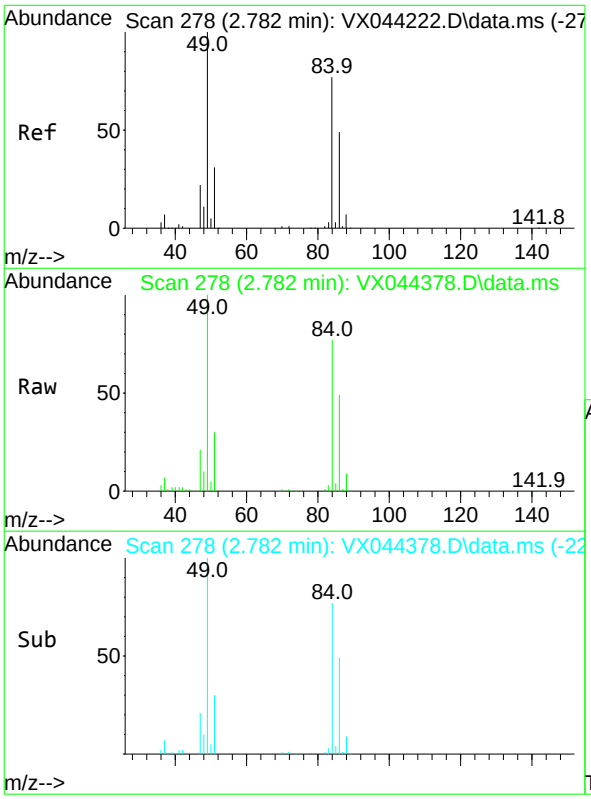
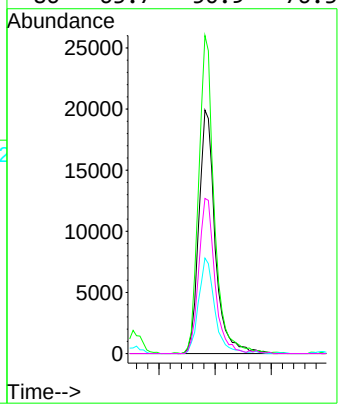
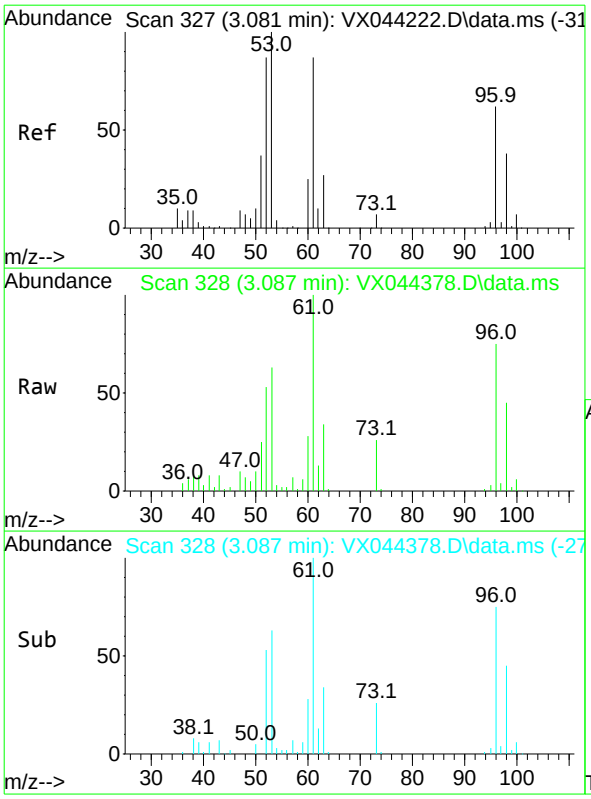


#20
Methylene Chloride
Concen: 19.732 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 84 Resp: 40273

Ion	Ratio	Lower	Upper
84	100		
49	130.3	104.2	156.4
51	39.2	32.2	48.4
86	63.7	50.9	76.3

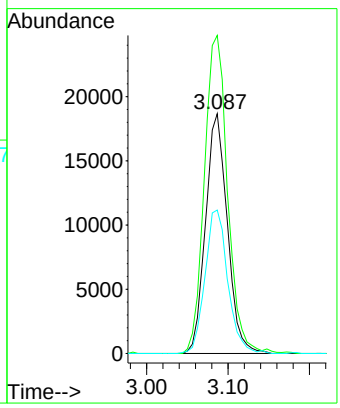




#21
trans-1,2-Dichloroethene
Concen: 19.200 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 96 Resp: 34770

Ion	Ratio	Lower	Upper
96	100		
61	132.6	112.0	168.0
98	59.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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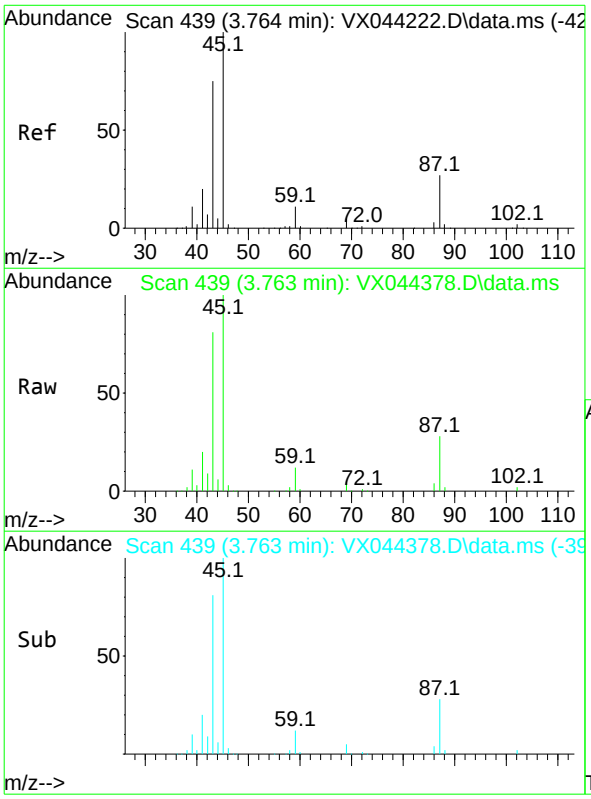
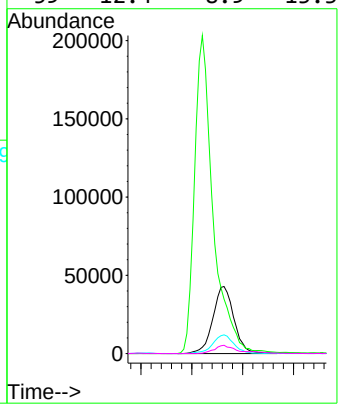
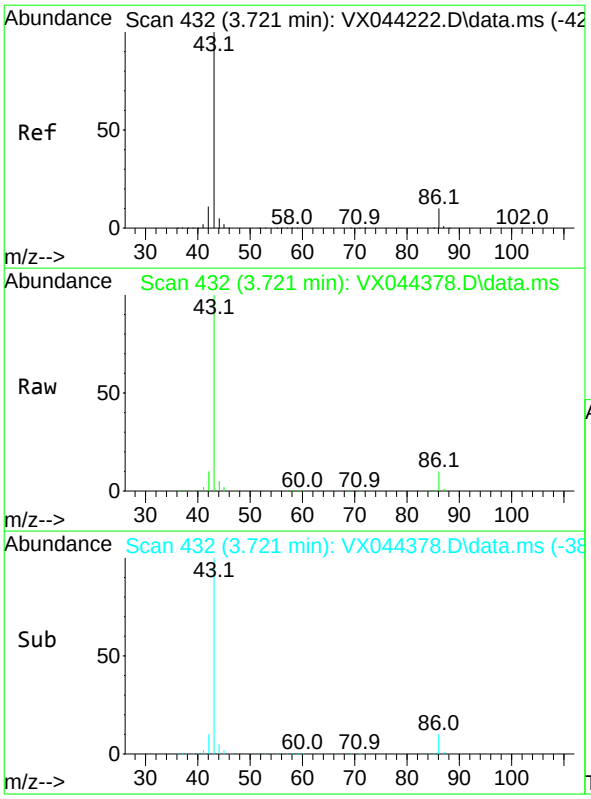


#22
Diisopropyl ether
Concen: 19.313 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 45 Resp: 123430

Ion	Ratio	Lower	Upper
45	100		
43	81.1	60.2	90.2
87	27.9	21.2	31.8
59	12.4	8.9	13.3

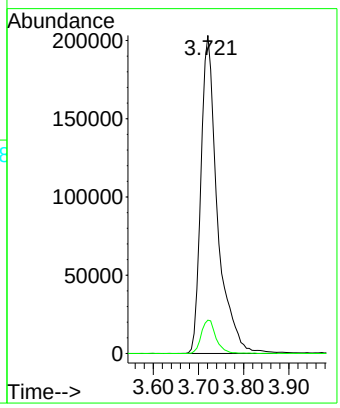




#23
Vinyl Acetate
Concen: 99.503 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 517012

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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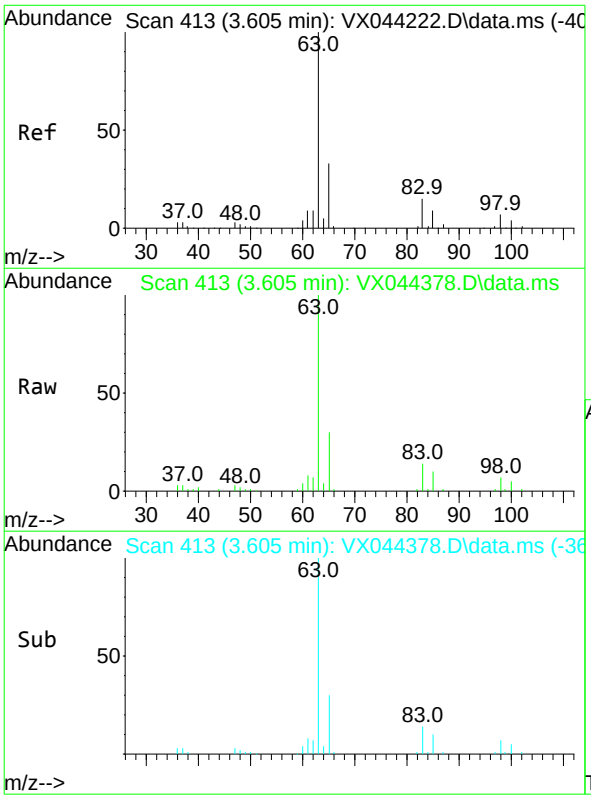
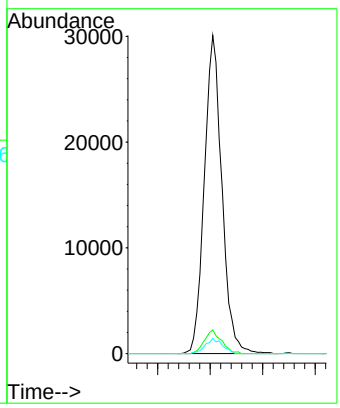
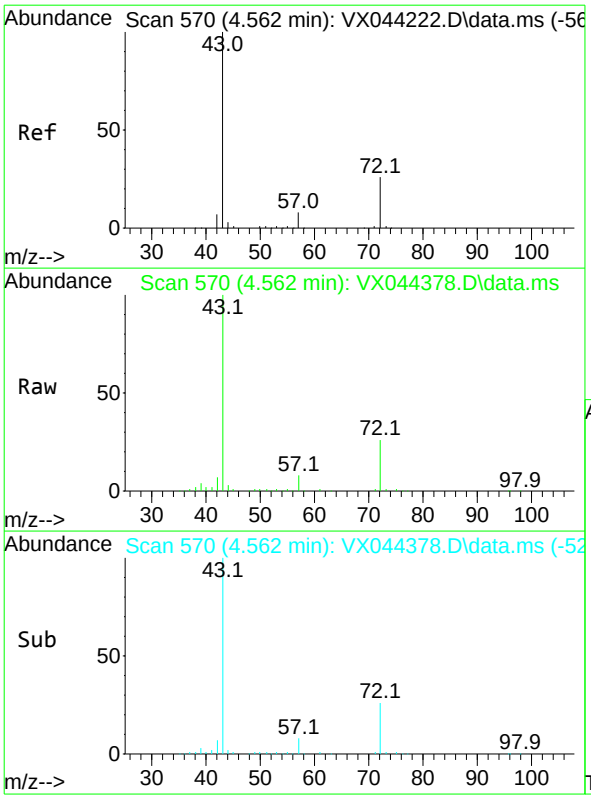


#24
1,1-Dichloroethane
Concen: 19.604 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 63 Resp: 69838

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.8	2.1	6.3

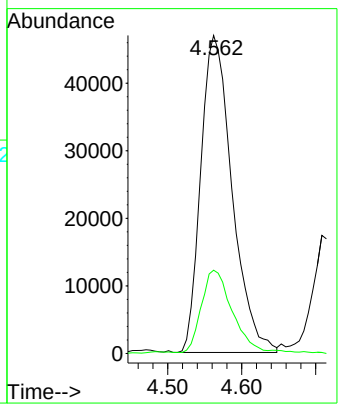




#25
2-Butanone
Concen: 89.313 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 137972

Ion	Ratio	Lower	Upper
43	100		
72	25.9	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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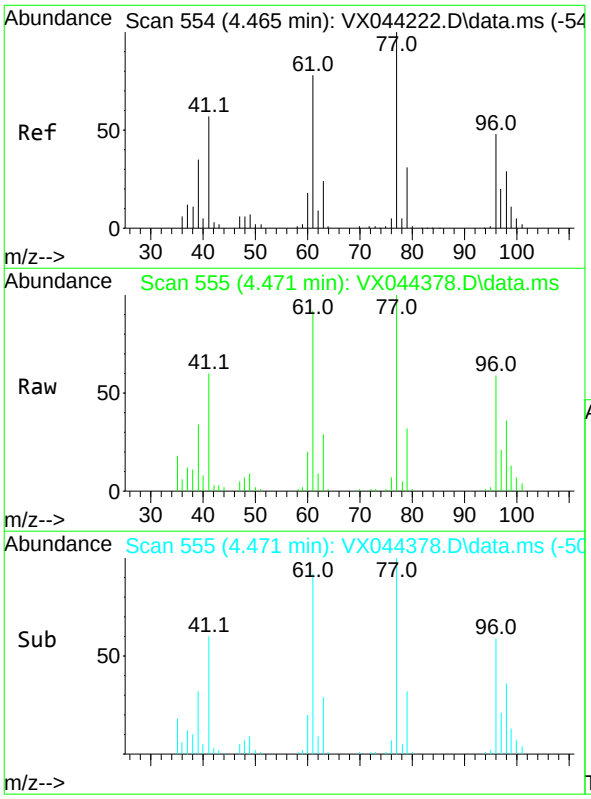
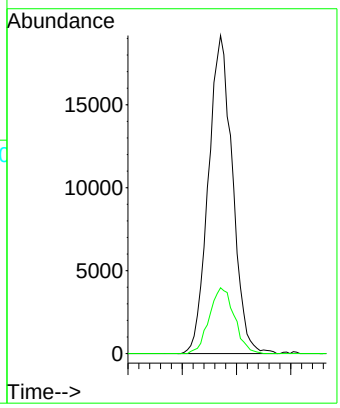
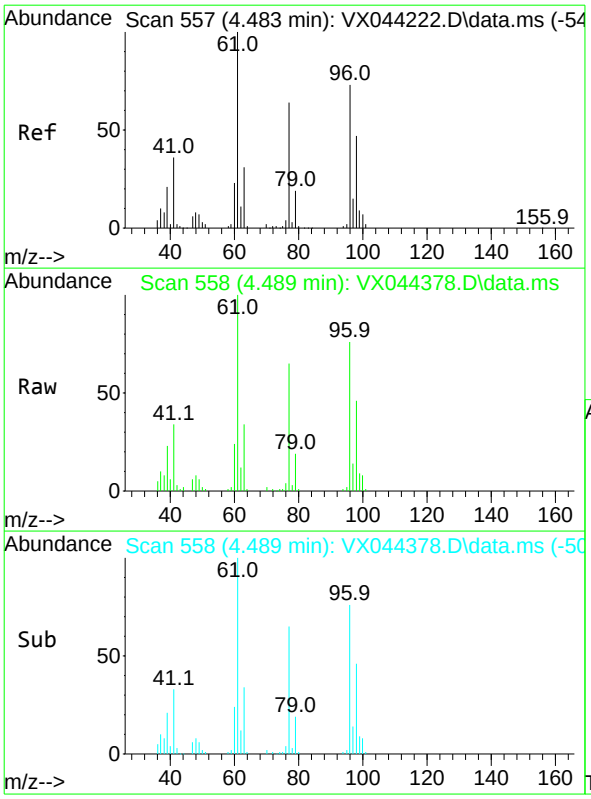


#26
2,2-Dichloropropane
Concen: 20.448 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 77 Resp: 59180

Ion	Ratio	Lower	Upper
77	100		
97	21.5	10.7	32.1

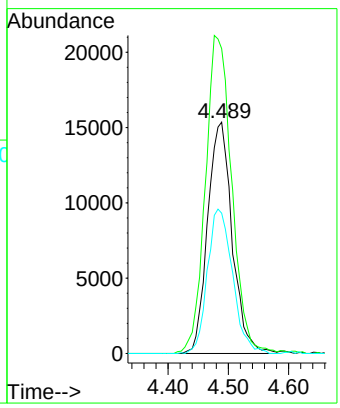




#27
cis-1,2-Dichloroethene
Concen: 18.922 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 96 Resp: 43520

Ion	Ratio	Lower	Upper
96	100		
61	146.9	0.0	299.0
98	63.8	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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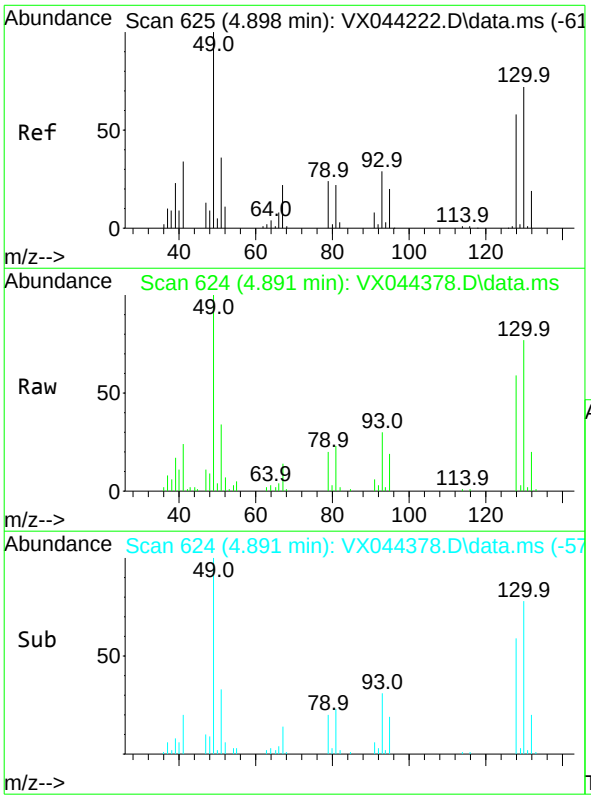
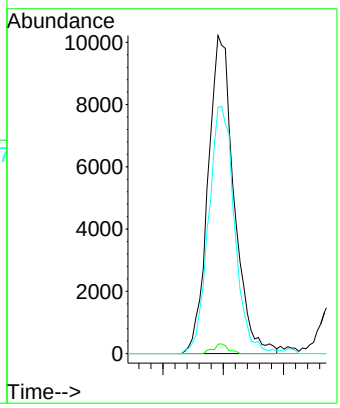
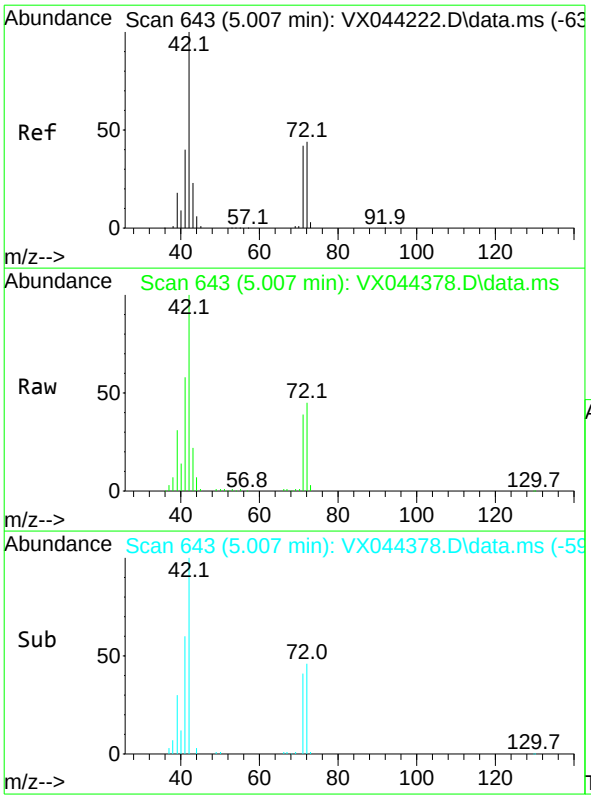


#28
Bromochloromethane
Concen: 17.498 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 49 Resp: 30568

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	78.0	62.1	93.1

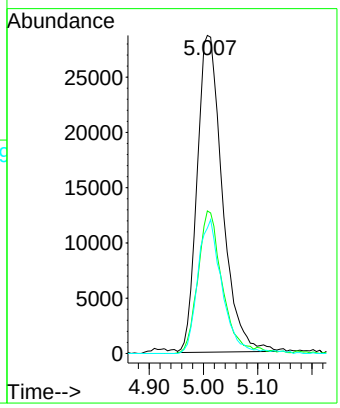




#29
Tetrahydrofuran
Concen: 93.430 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 42 Resp: 92642

Ion	Ratio	Lower	Upper
42	100		
72	44.0	37.0	55.6
71	40.6	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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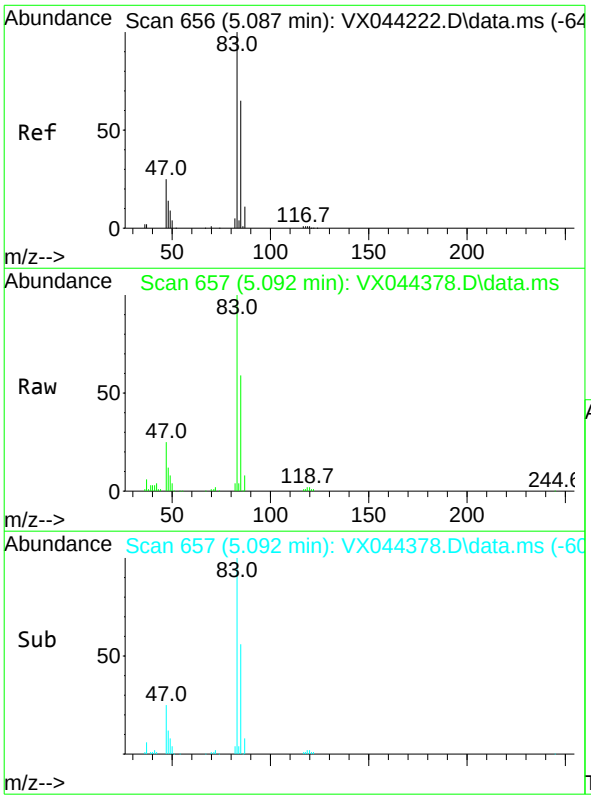
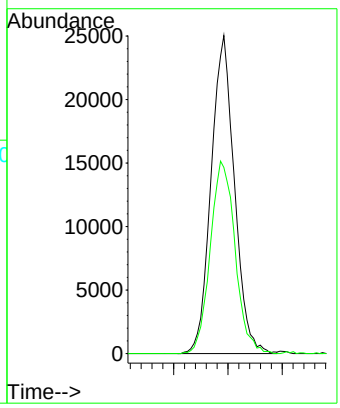
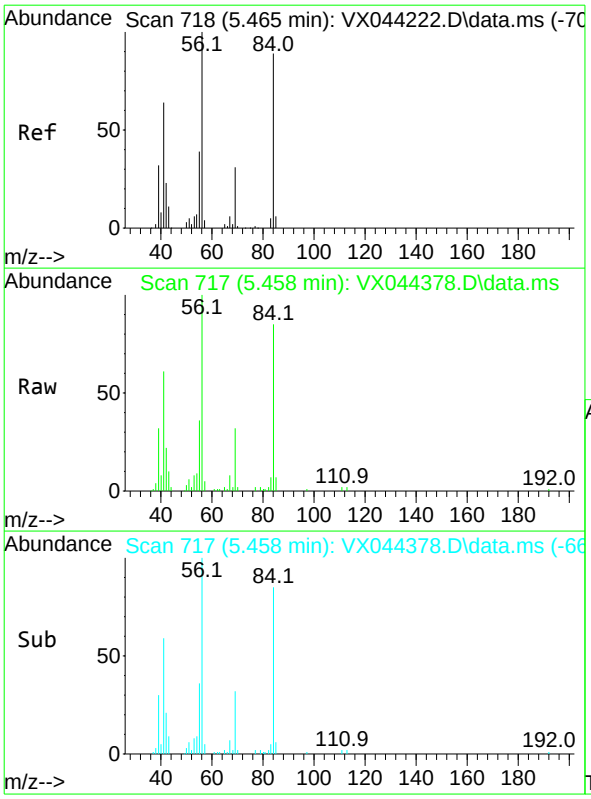


#30
Chloroform
Concen: 18.681 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 83 Resp: 74772

Ion	Ratio	Lower	Upper
83	100		
85	58.5	51.6	77.4

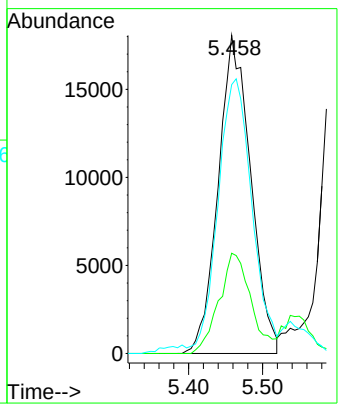




#31
Cyclohexane
Concen: 19.151 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 56 Resp: 55094

Ion	Ratio	Lower	Upper
56	100		
69	31.5	24.7	37.1
84	82.7	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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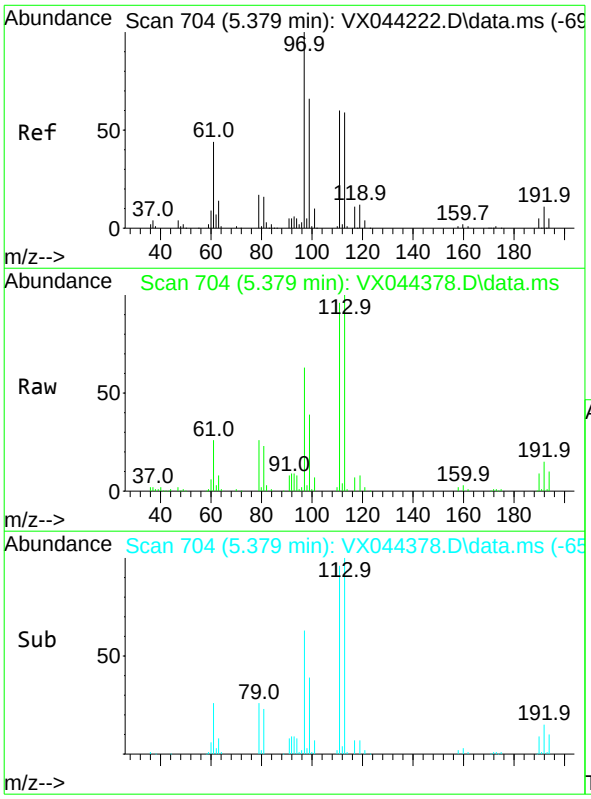
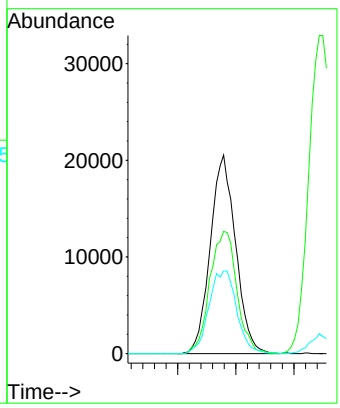
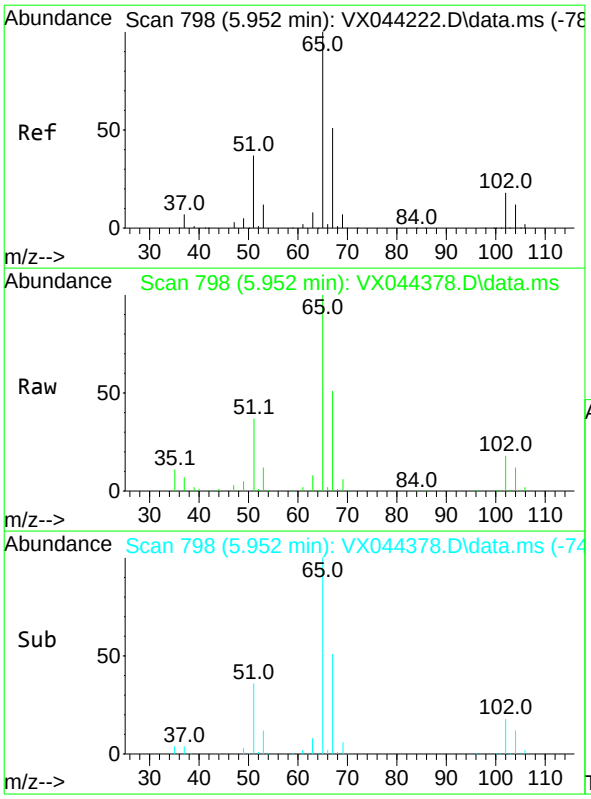


#32
1,1,1-Trichloroethane
Concen: 18.748 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 97 Resp: 62289

Ion	Ratio	Lower	Upper
97	100		
99	65.4	50.8	76.2
61	45.5	35.2	52.8

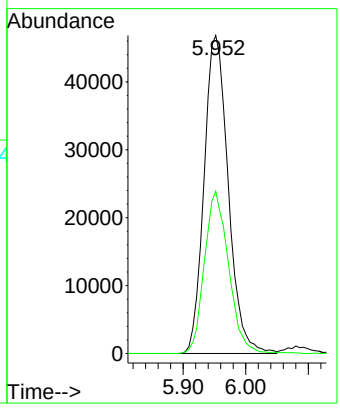




#33
1,2-Dichloroethane-d4
Concen: 47.186 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 65 Resp: 125769

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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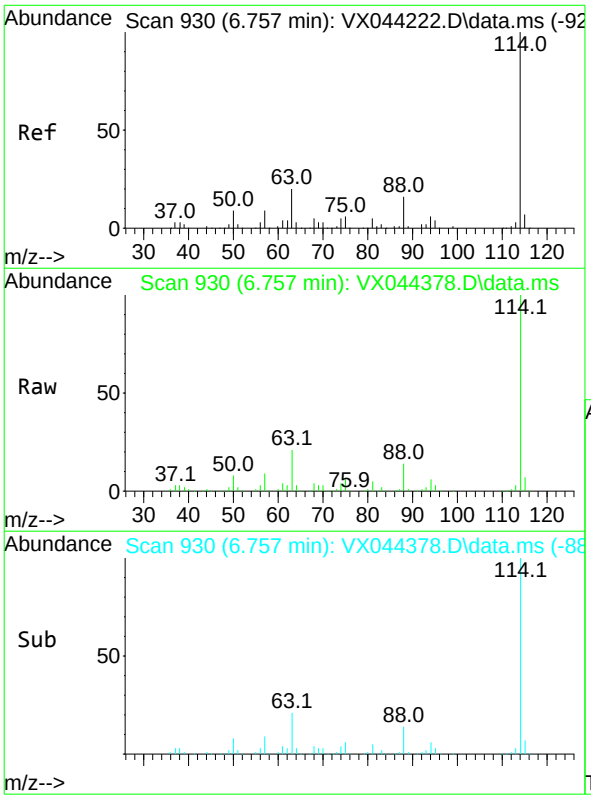
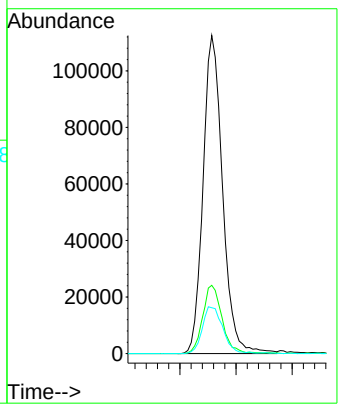
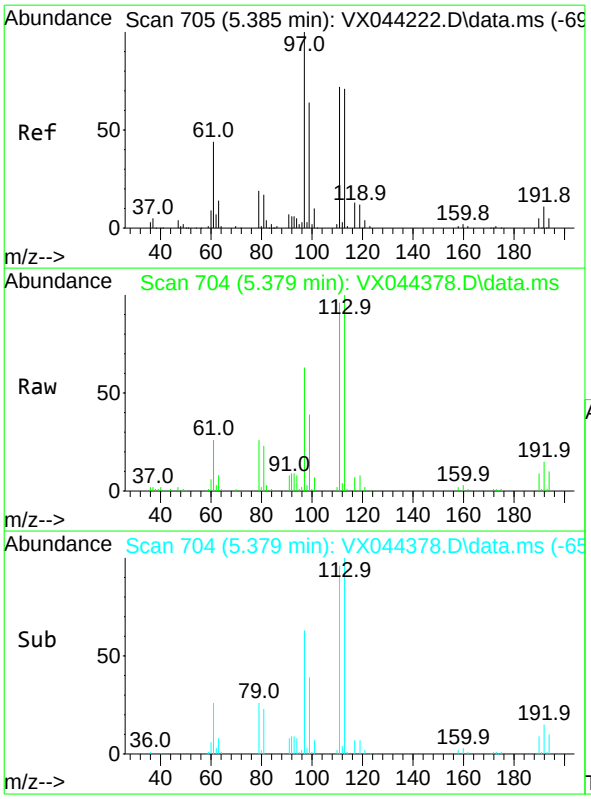


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:114 Resp: 272118

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	40.6
88	14.4	0.0	31.8

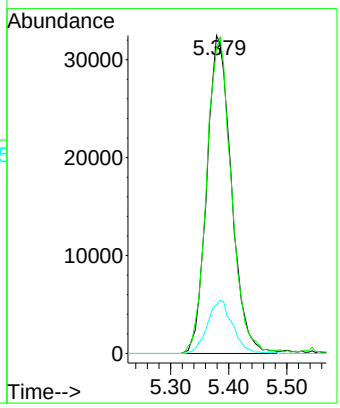




#35
Dibromofluoromethane
Concen: 50.526 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:113 Resp: 95224

Ion	Ratio	Lower	Upper
113	100		
111	100.0	80.4	120.6
192	17.2	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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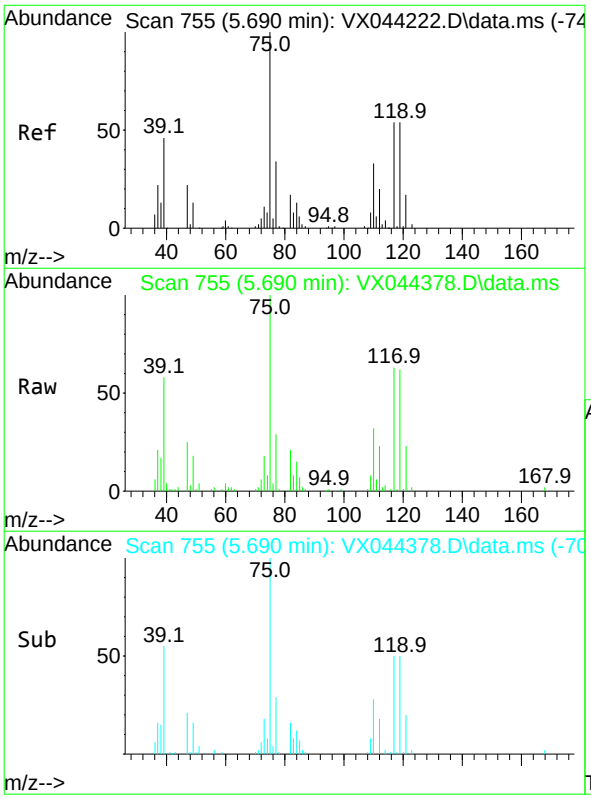
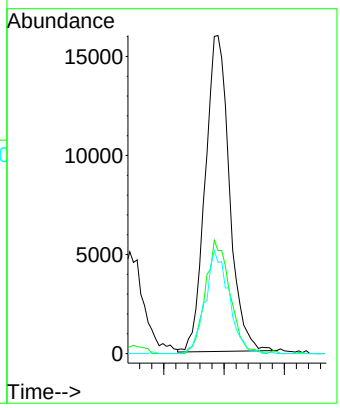
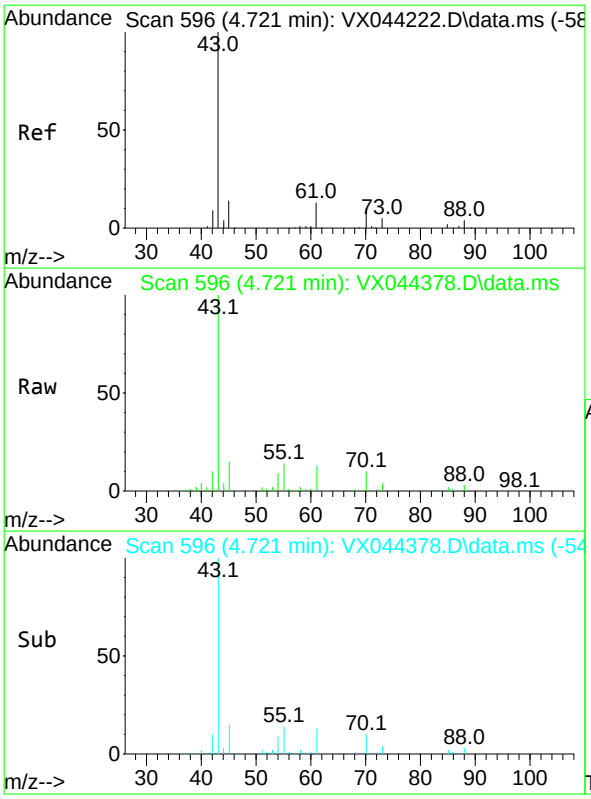


#36
1,1-Dichloropropene
Concen: 18.284 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 44543

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.3	51.7
77	32.2	25.4	38.0

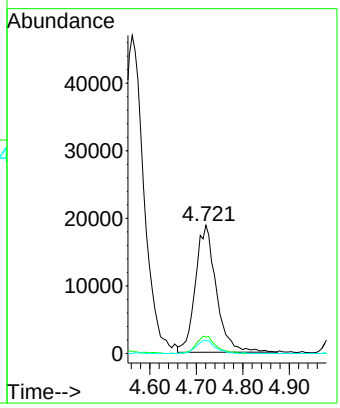




#37
Ethyl Acetate
Concen: 19.462 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 58608

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.8	14.8
70	9.3	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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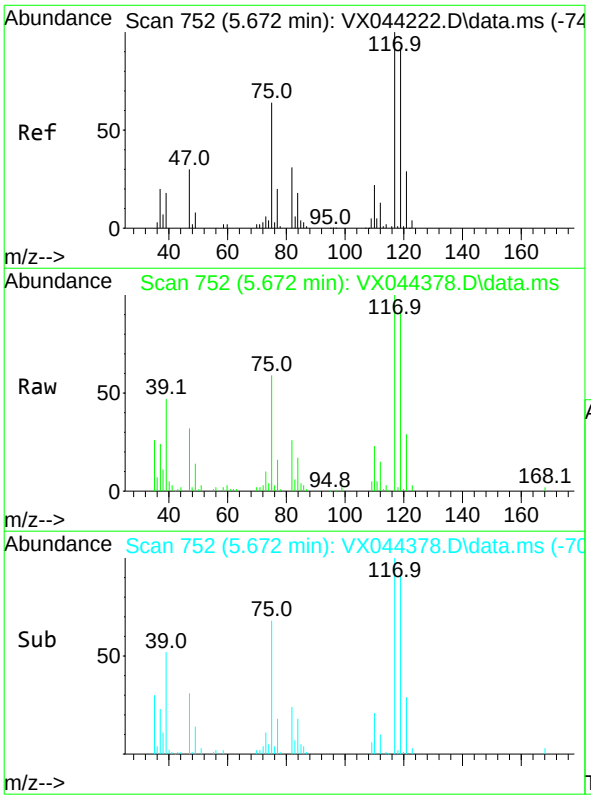
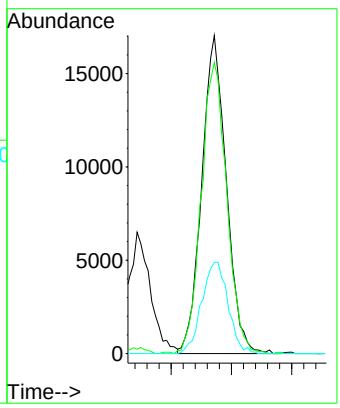
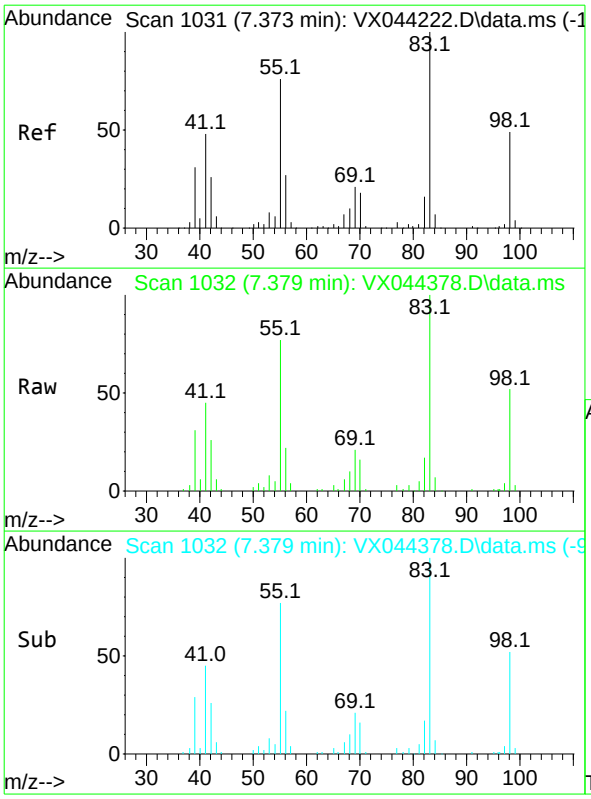


#38
Carbon Tetrachloride
Concen: 18.404 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:117 Resp: 48269

Ion	Ratio	Lower	Upper
117	100		
119	91.2	74.2	111.4
121	28.7	23.0	34.6

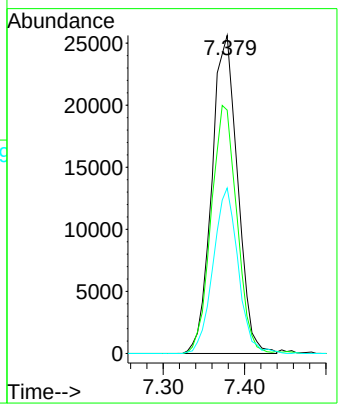




#39
Methylcyclohexane
Concen: 19.402 ug/l
RT: 7.379 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 83 Resp: 56507

Ion	Ratio	Lower	Upper
83	100		
55	76.5	60.7	91.1
98	52.0	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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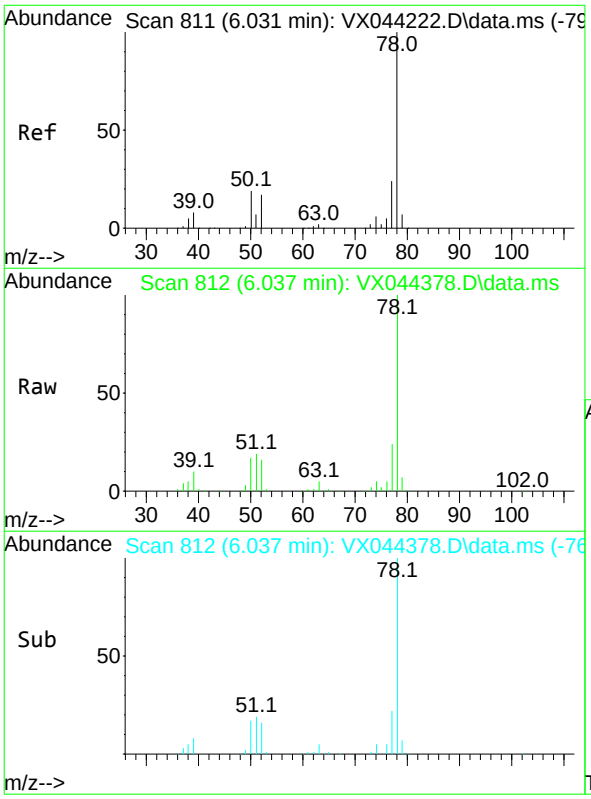
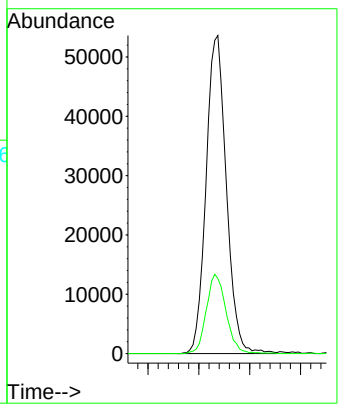
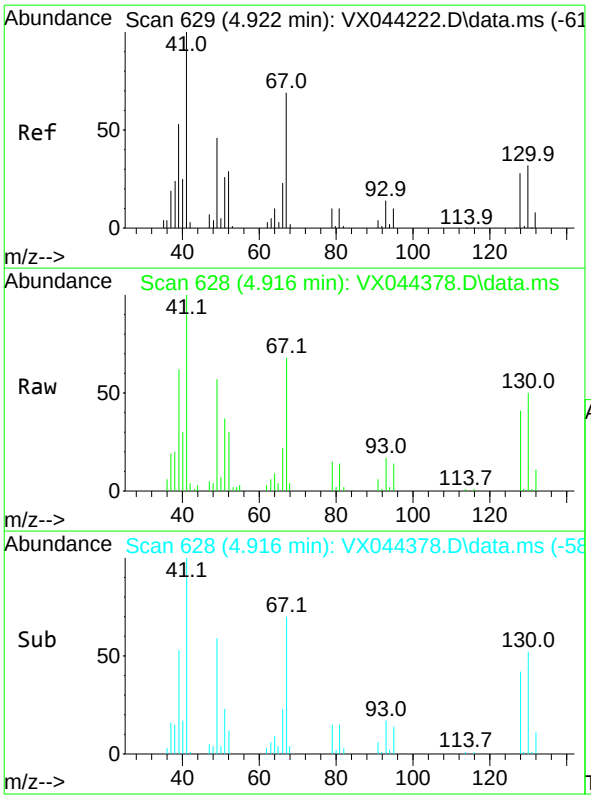


#40
Benzene
Concen: 20.060 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 78 Resp: 148380

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9

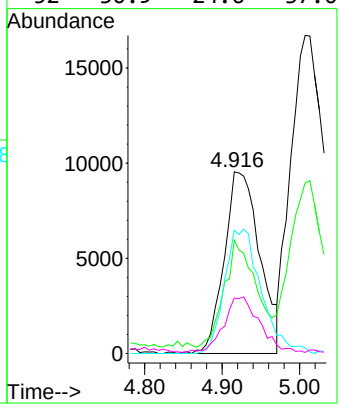




#41
Methacrylonitrile
Concen: 19.075 ug/l
RT: 4.916 min Scan# 62
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 41 Resp: 30502

Ion	Ratio	Lower	Upper
41	100		
39	52.9	44.2	66.4
67	70.3	57.2	85.8
52	30.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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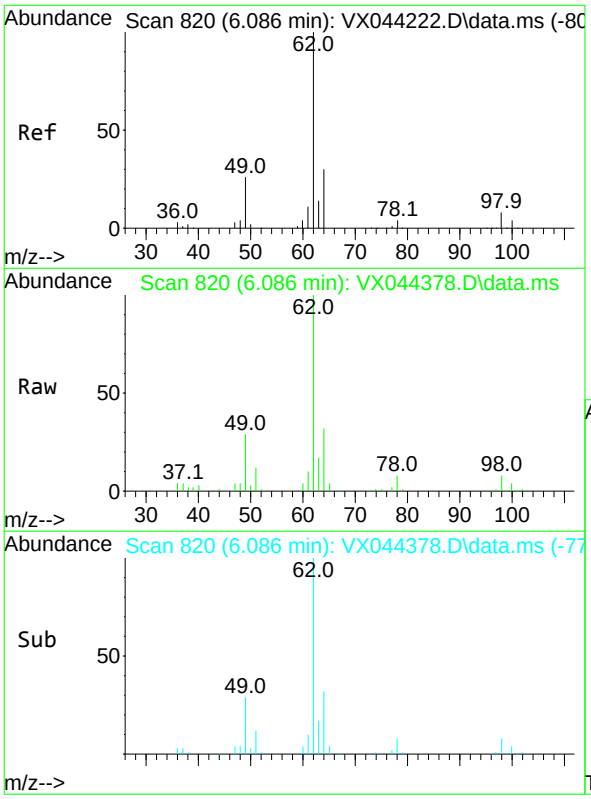
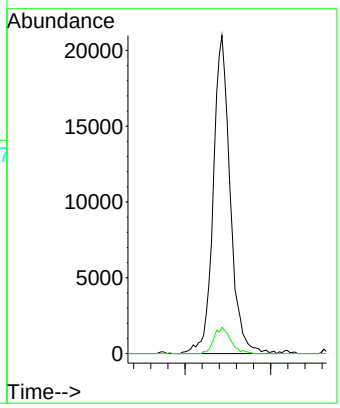
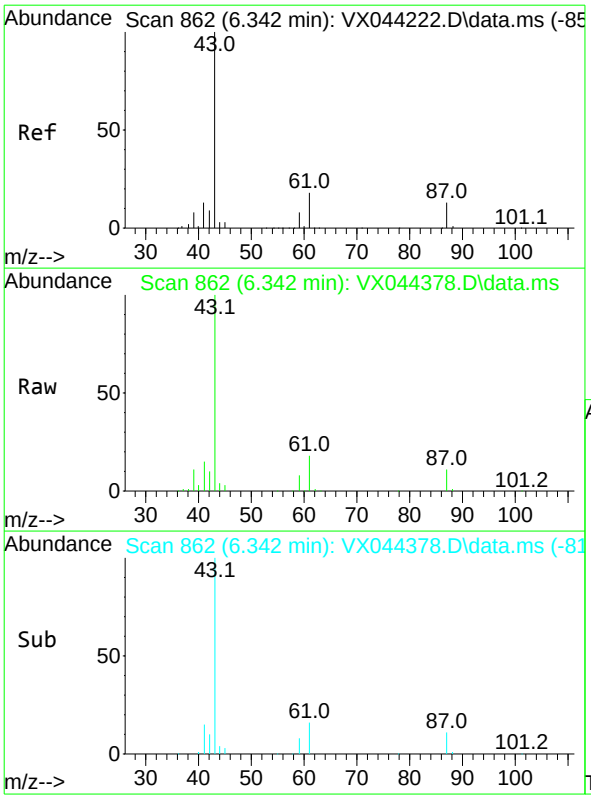


#42
1,2-Dichloroethane
Concen: 18.905 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 62 Resp: 57603

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	15.8

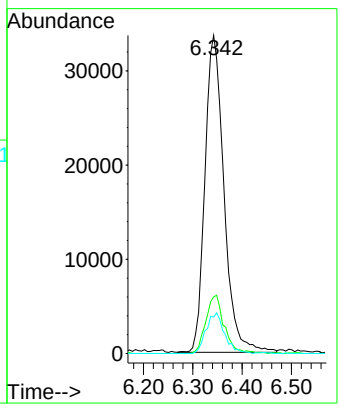




#43
Isopropyl Acetate
Concen: 19.169 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 90225

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.2	21.2
87	12.4	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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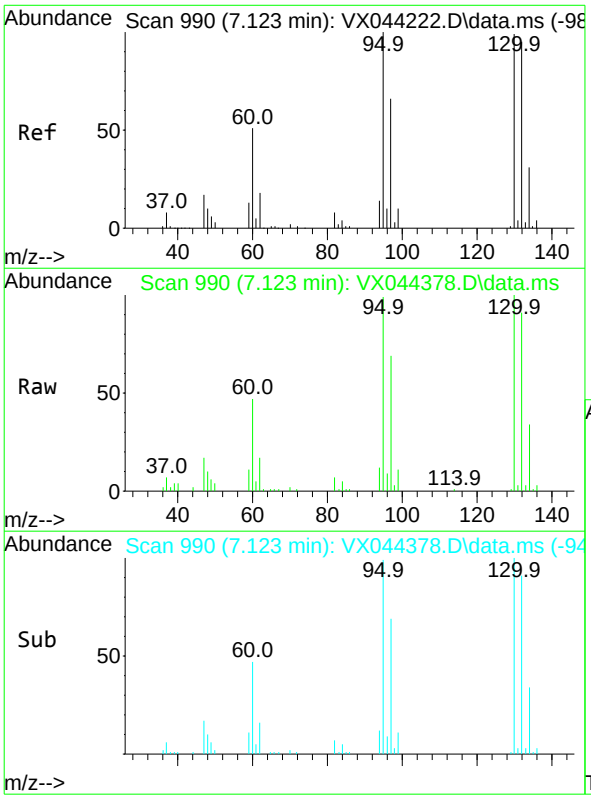
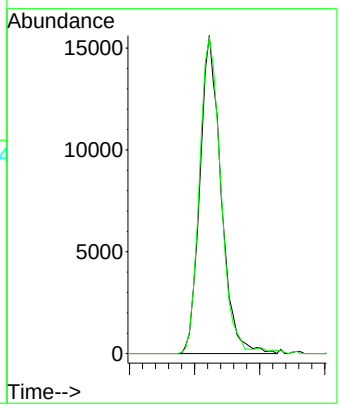
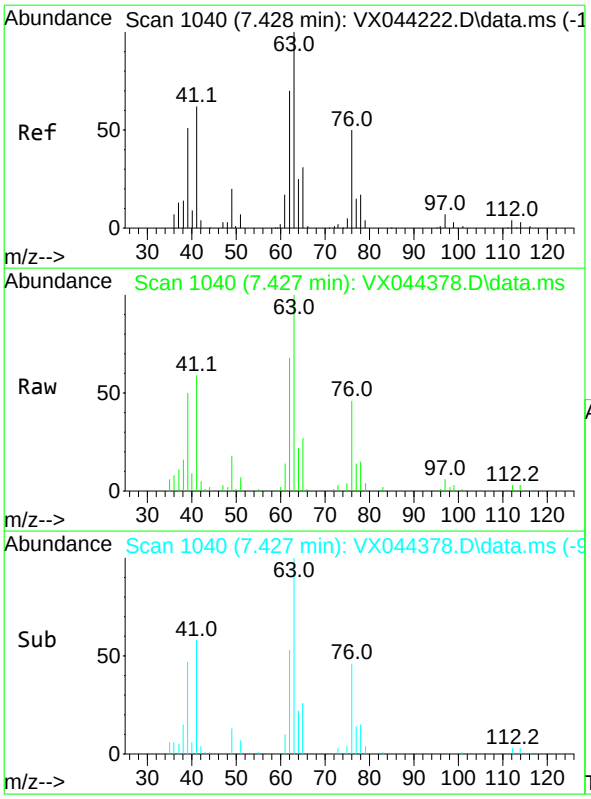


#44
Trichloroethene
Concen: 19.056 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:130 Resp: 35150

Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	201.4

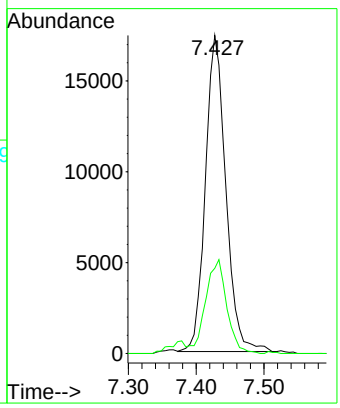




#45
1,2-Dichloropropane
Concen: 19.250 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 63 Resp: 36377

Ion	Ratio	Lower	Upper
63	100		
65	26.6	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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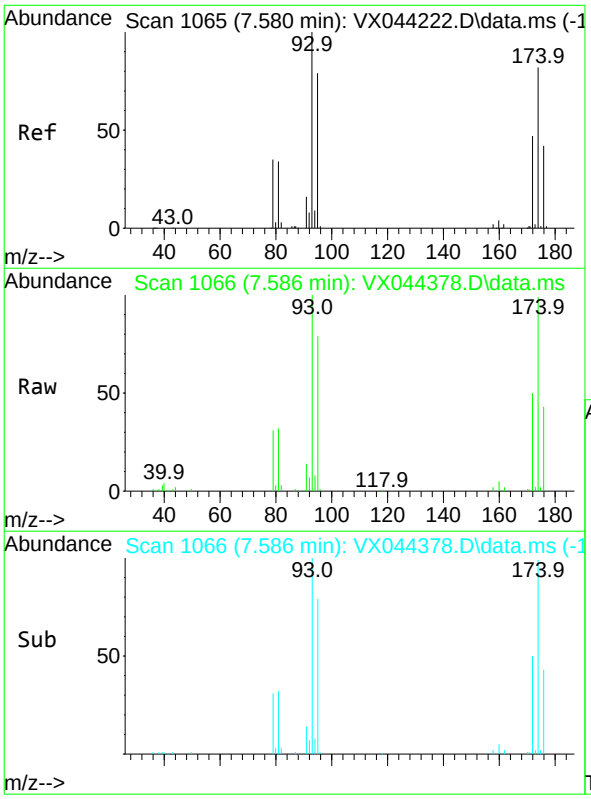
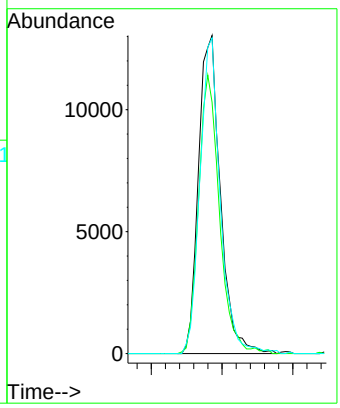
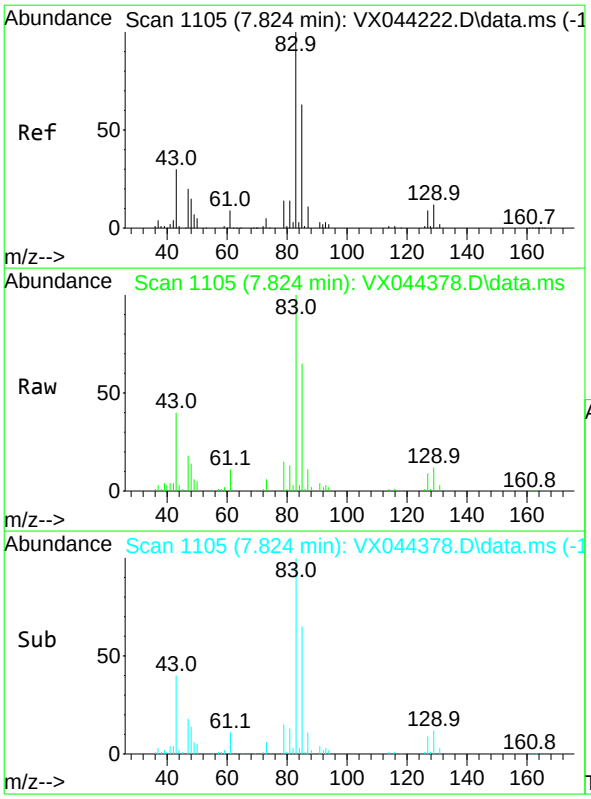


#46
Dibromomethane
Concen: 19.105 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 93 Resp: 28009

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.4	98.2
174	92.5	67.9	101.9

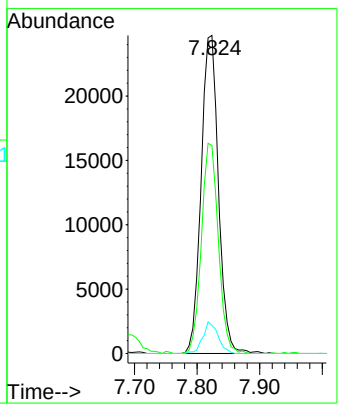




#47
Bromodichloromethane
Concen: 18.757 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 83 Resp: 47492

Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.6	75.8
127	8.9	7.3	10.9



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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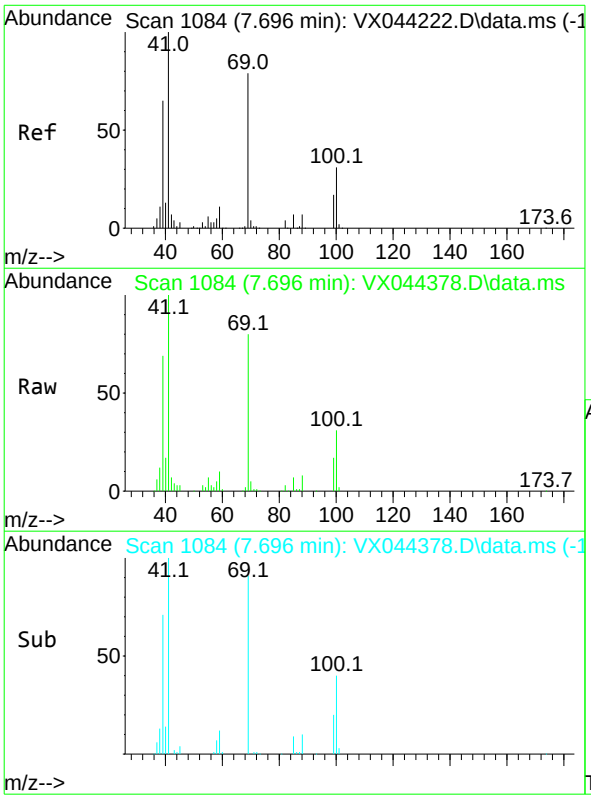
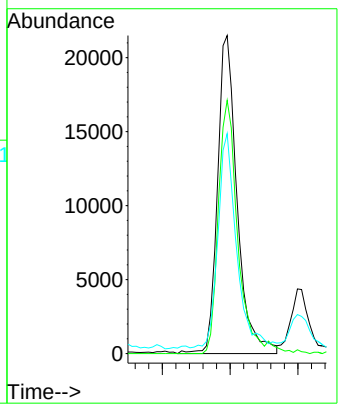
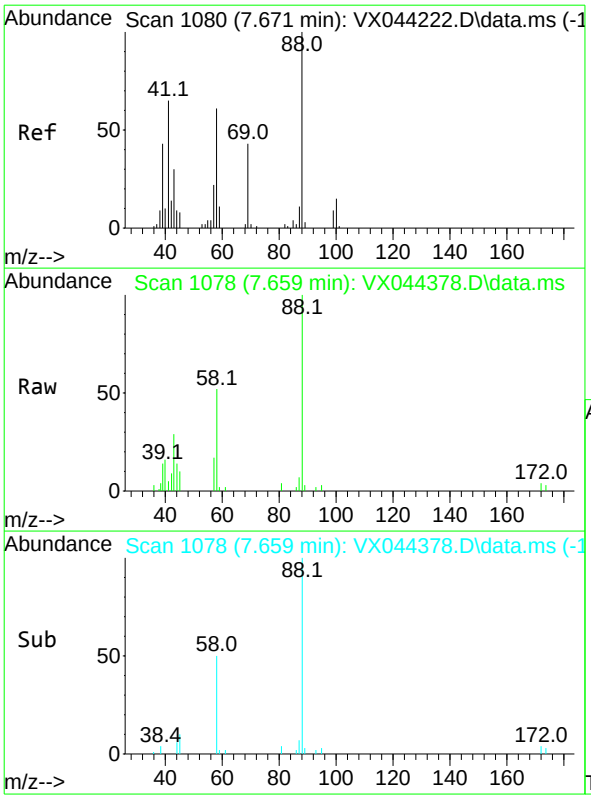


#48
Methyl methacrylate
Concen: 18.917 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 41 Resp: 43221

Ion	Ratio	Lower	Upper
41	100		
69	79.2	62.4	93.6
39	63.8	53.3	79.9

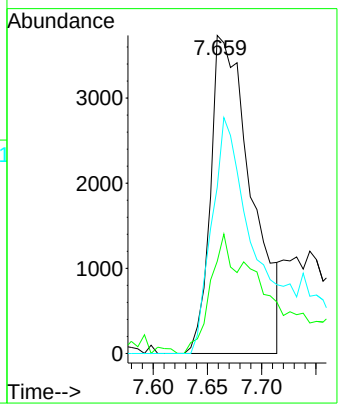




#49
1,4-Dioxane
Concen: 257.250 ug/l
RT: 7.659 min Scan# 10
Delta R.T. -0.012 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 88 Resp: 9745

Ion	Ratio	Lower	Upper
88	100		
43	22.4	27.1	40.7#
58	79.0	41.0	61.4#



Instrument :
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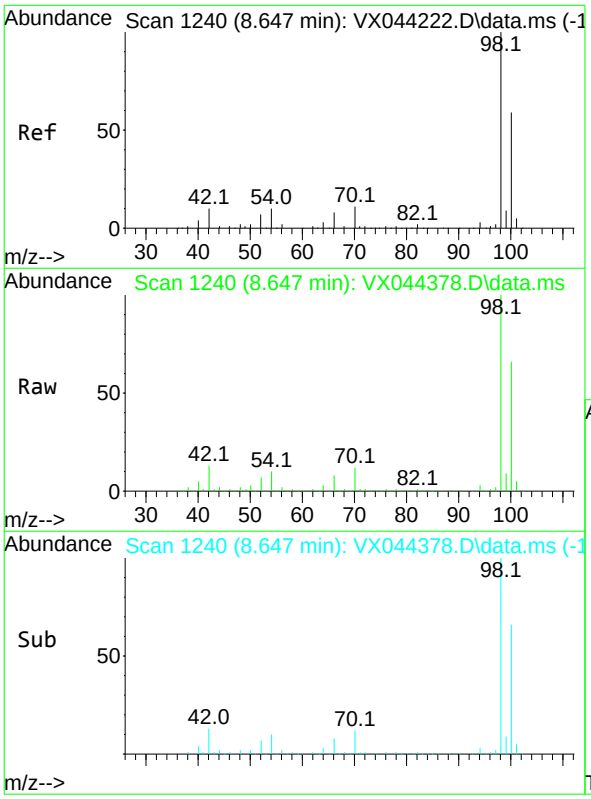
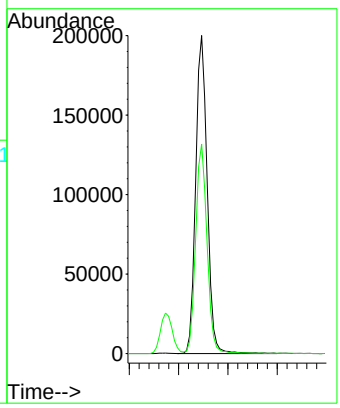
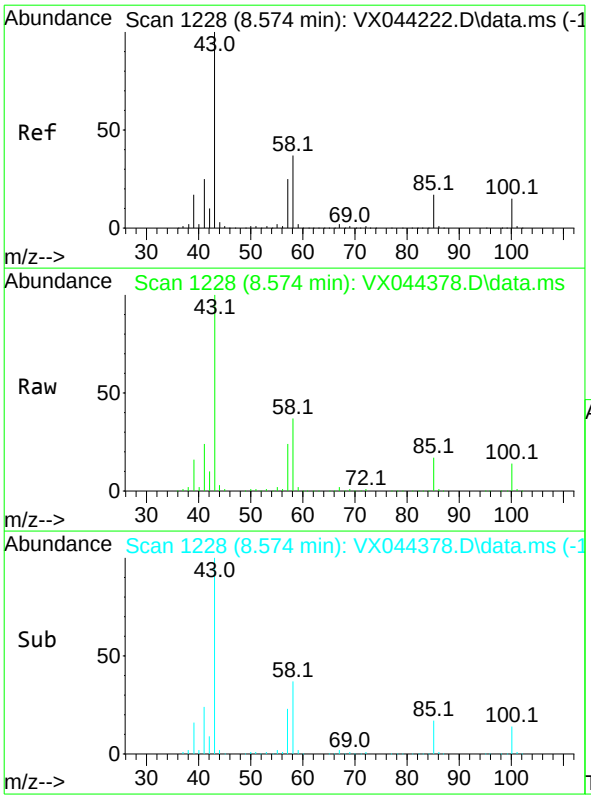


#50
Toluene-d8
Concen: 50.811 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 98 Resp: 323070

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3

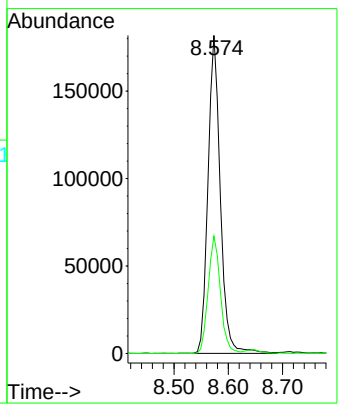




#51
4-Methyl-2-Pentanone
Concen: 94.787 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 286862

Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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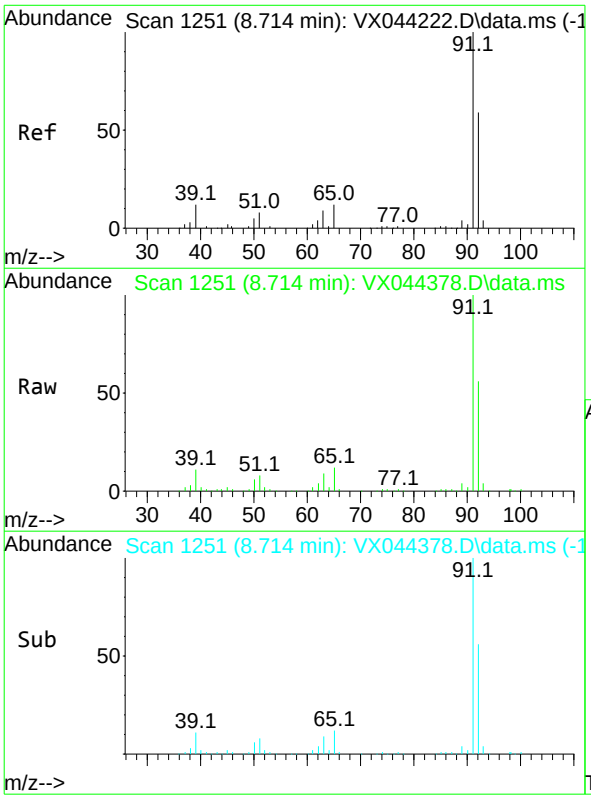
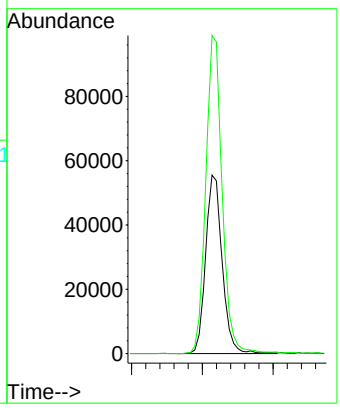
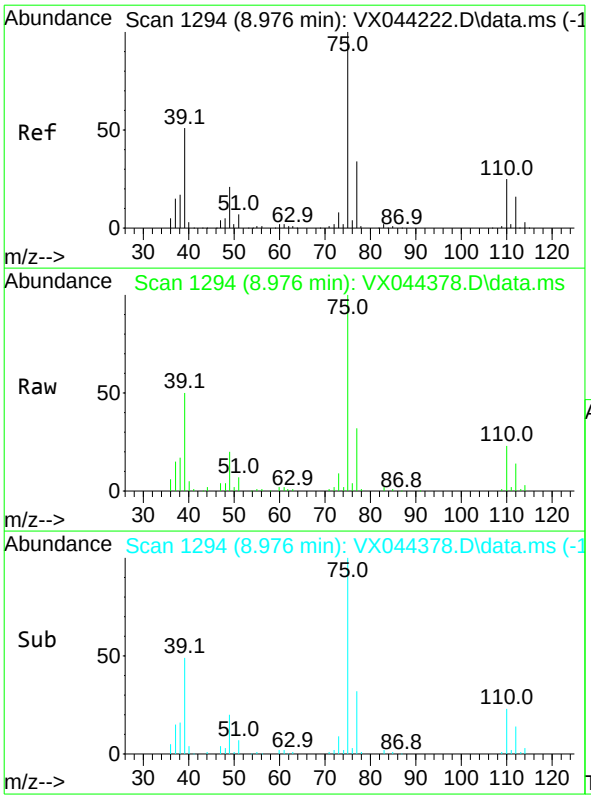


#52
Toluene
Concen: 19.428 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 92 Resp: 90242

Ion	Ratio	Lower	Upper
92	100		
91	176.6	137.0	205.6

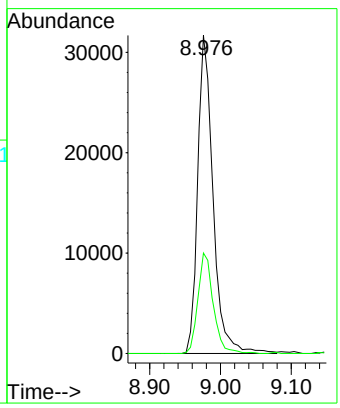




#53
t-1,3-Dichloropropene
Concen: 18.774 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 47729

Ion	Ratio	Lower	Upper
75	100		
77	31.6	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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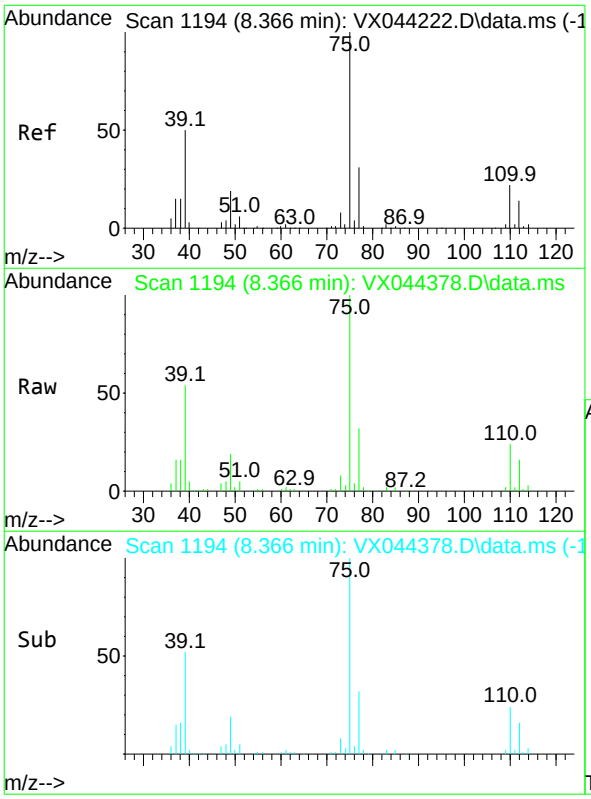
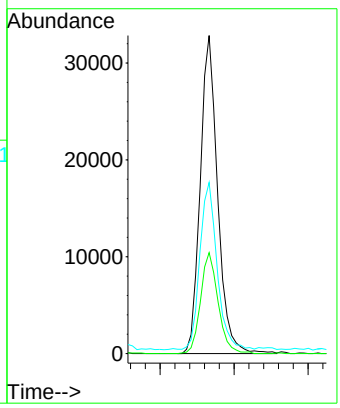
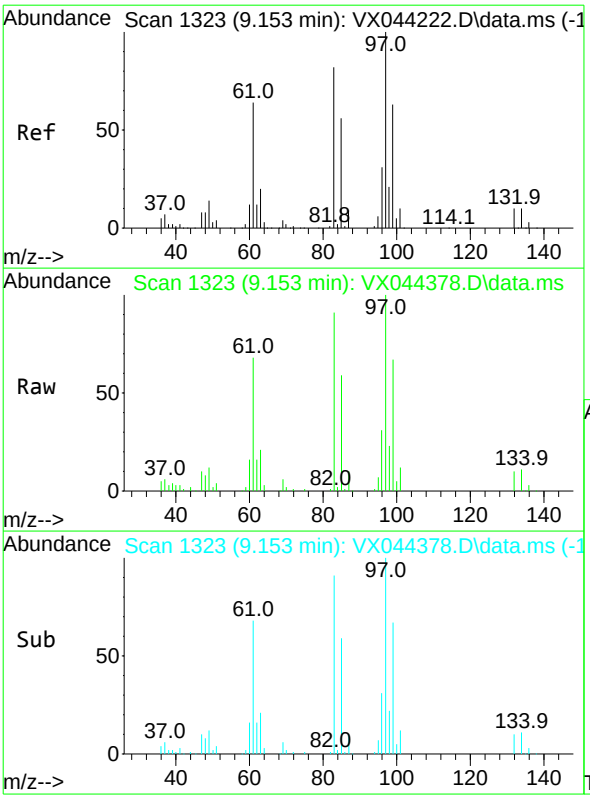


#54
cis-1,3-Dichloropropene
Concen: 19.485 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 53718

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.7	37.1
39	52.5	40.3	60.5

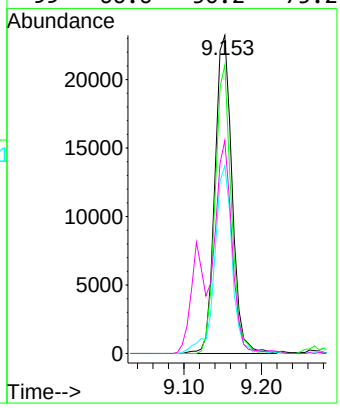




#55
1,1,2-Trichloroethane
Concen: 19.348 ug/l
RT: 9.153 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 97 Resp: 35702

Ion	Ratio	Lower	Upper
97	100		
83	90.7	65.3	97.9
85	59.0	44.6	67.0
99	66.6	50.2	75.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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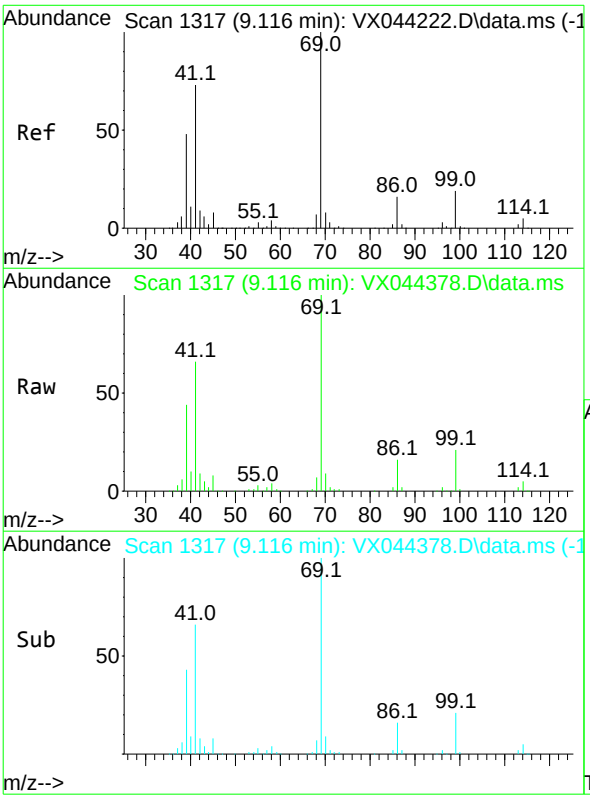
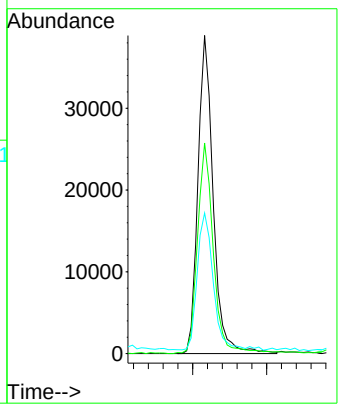
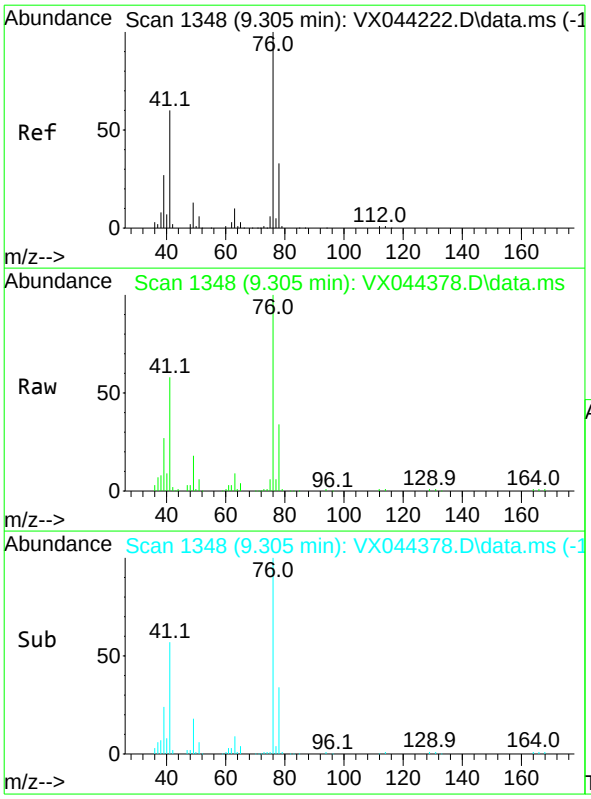


#56
Ethyl methacrylate
Concen: 19.118 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 69 Resp: 55693

Ion	Ratio	Lower	Upper
69	100		
41	69.3	56.6	85.0
39	44.6	37.4	56.0

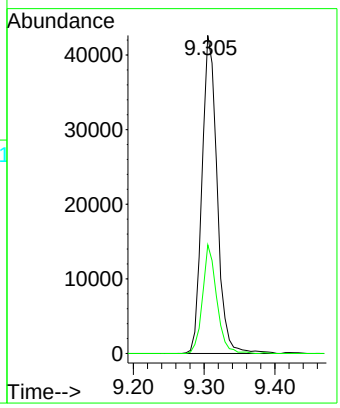




#57
1,3-Dichloropropane
Concen: 19.724 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 76 Resp: 63353

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
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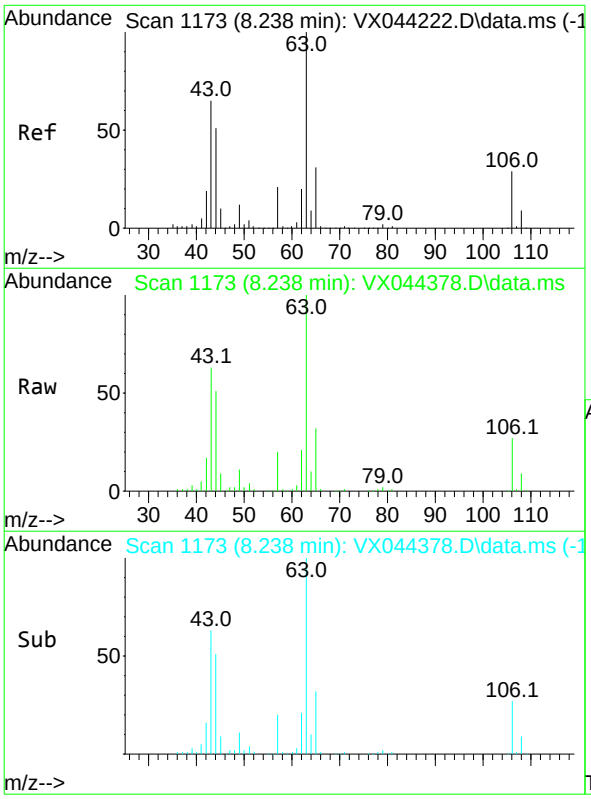
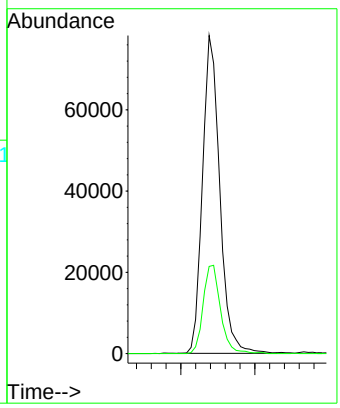
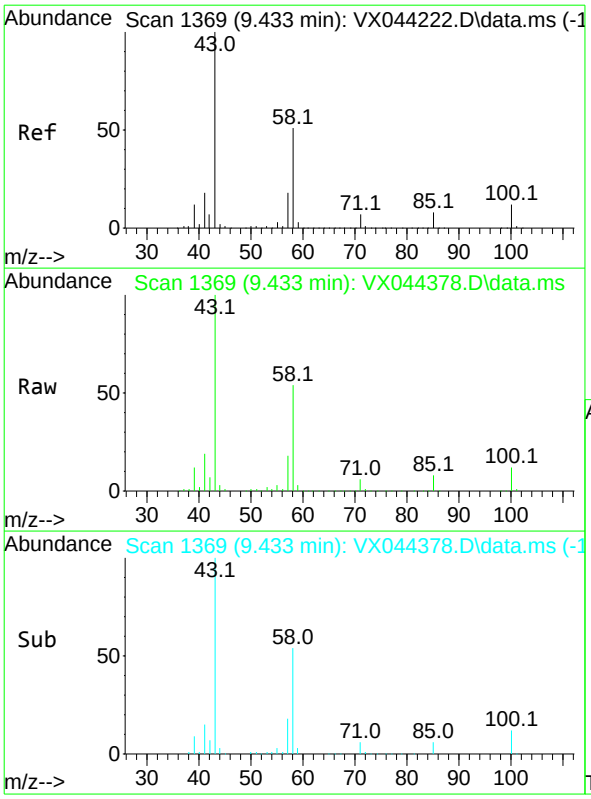


#58
2-Chloroethyl Vinyl ether
Concen: 86.145 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 63 Resp: 126572

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.8	34.2

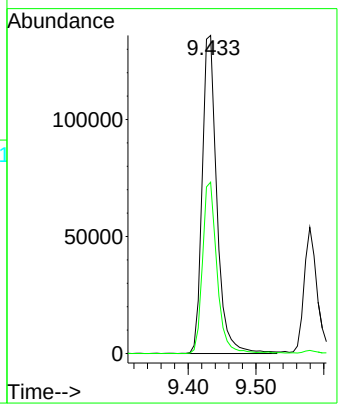




#59
2-Hexanone
Concen: 93.265 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 204304

Ion	Ratio	Lower	Upper
43	100		
58	52.7	25.7	77.0



Instrument :
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ClientSampleId :
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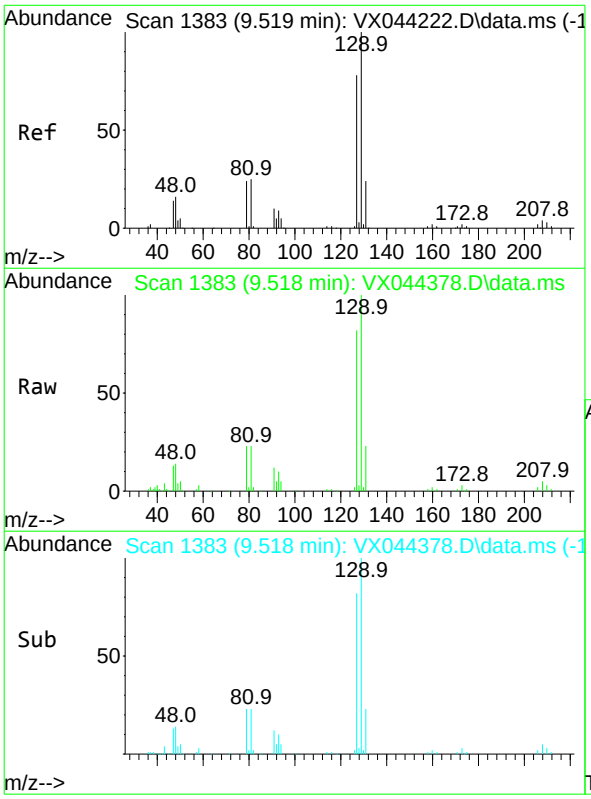
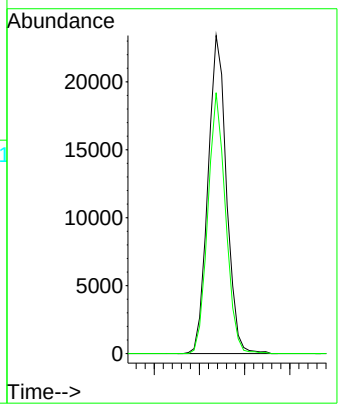
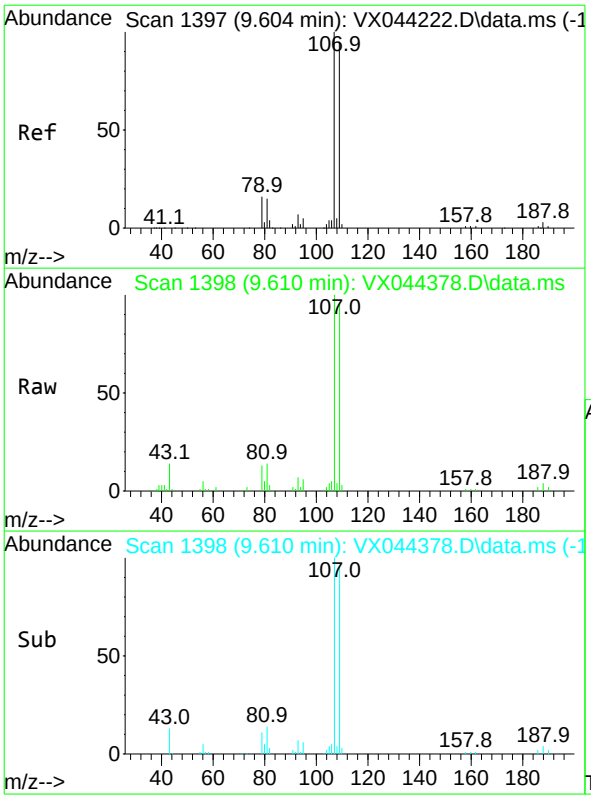


#60
Dibromochloromethane
Concen: 18.320 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:129 Resp: 33259

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.5	115.3

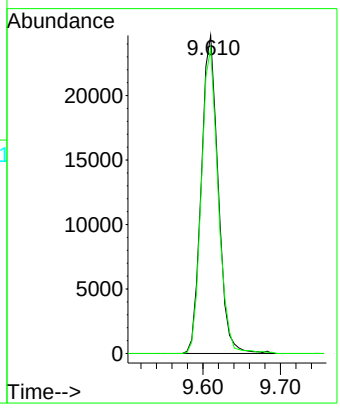




#61
1,2-Dibromoethane
Concen: 19.855 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:107 Resp: 37294

Ion	Ratio	Lower	Upper
107	100		
109	95.8	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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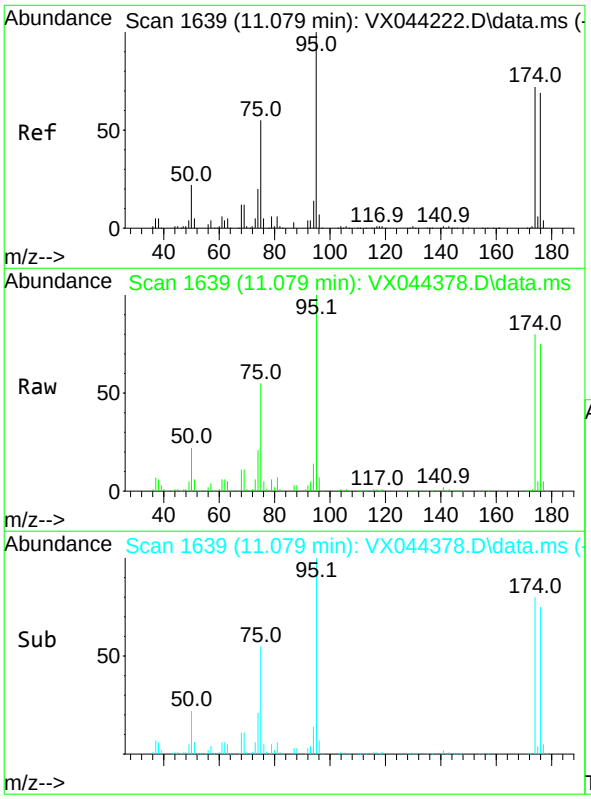
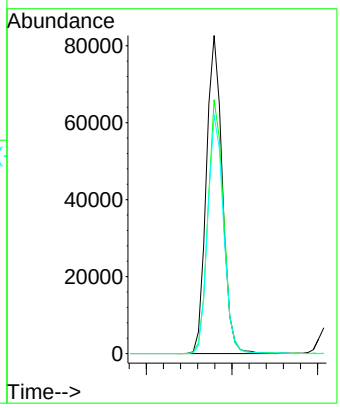
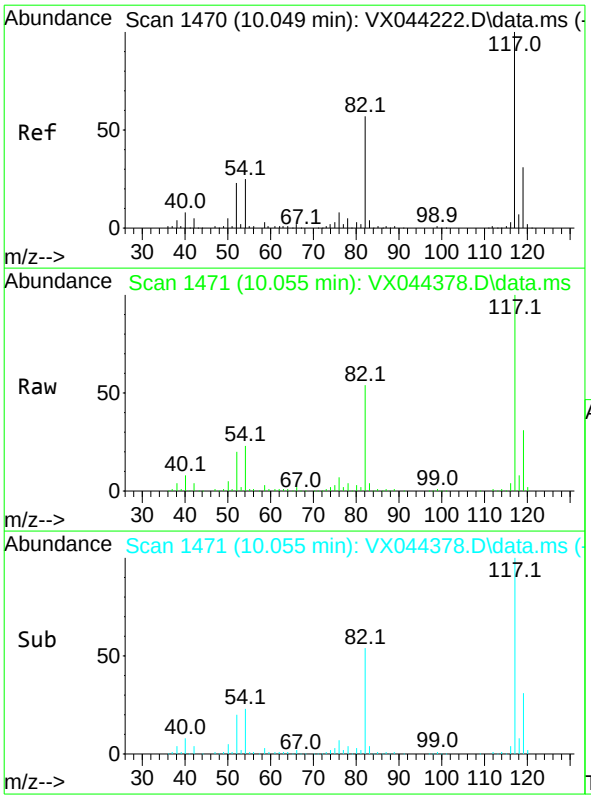


#62
4-Bromofluorobenzene
Concen: 48.171 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 95 Resp: 107025

Ion	Ratio	Lower	Upper
95	100		
174	78.5	0.0	145.8
176	74.2	0.0	137.8

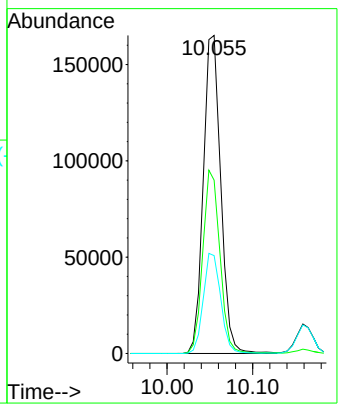




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:117 Resp: 233700

Ion	Ratio	Lower	Upper
117	100		
82	54.5	45.8	68.8
119	30.8	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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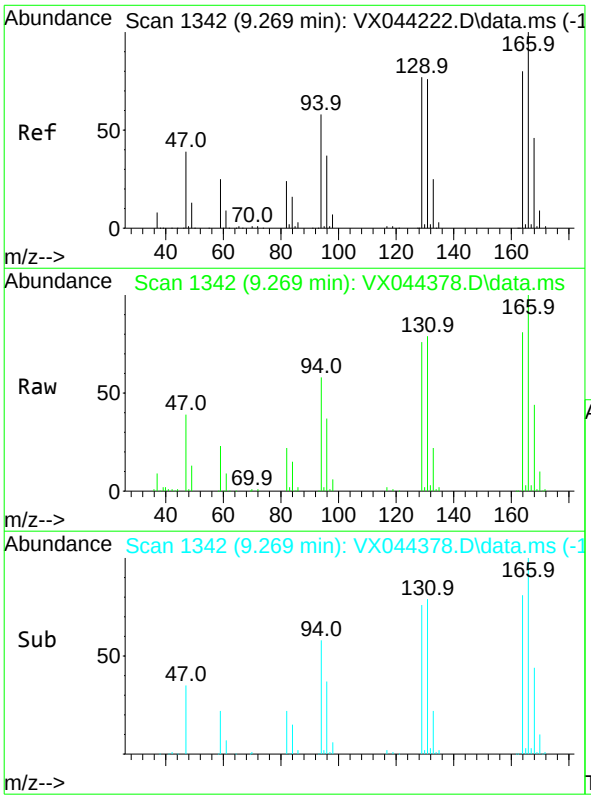
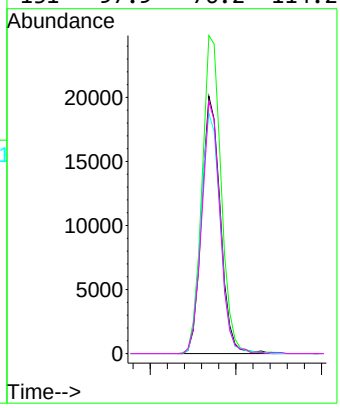
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

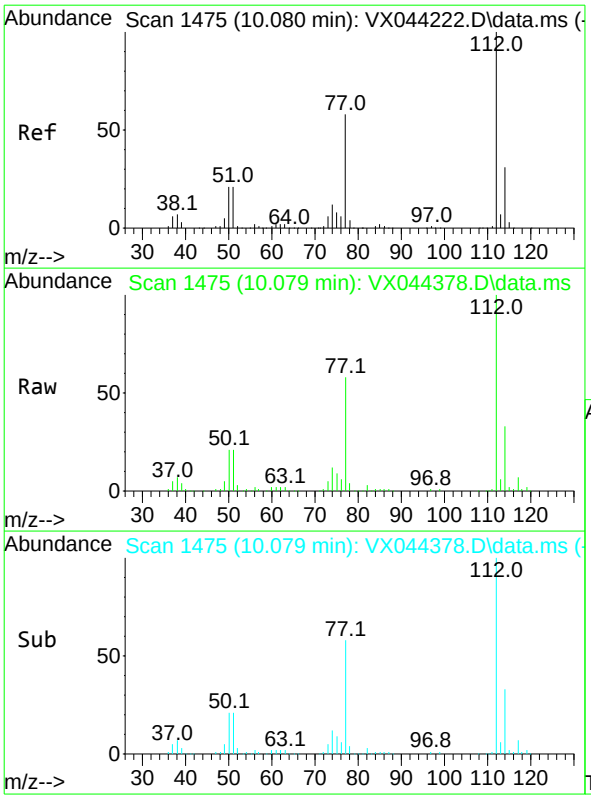


#64
Tetrachloroethene
Concen: 19.589 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:164 Resp: 30384

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.4	150.6
129	93.3	77.2	115.8
131	97.9	76.2	114.2

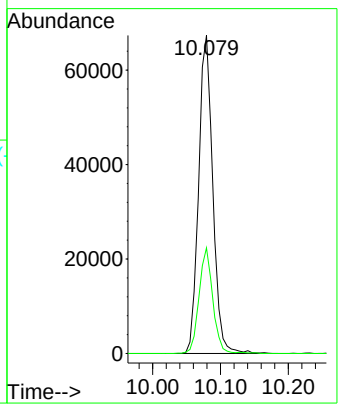




#65
Chlorobenzene
Concen: 19.498 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:112 Resp: 97639

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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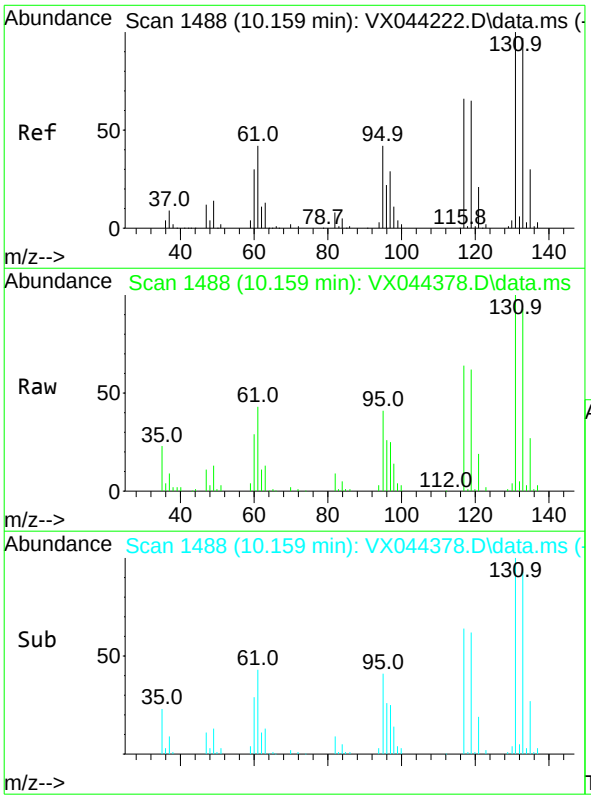
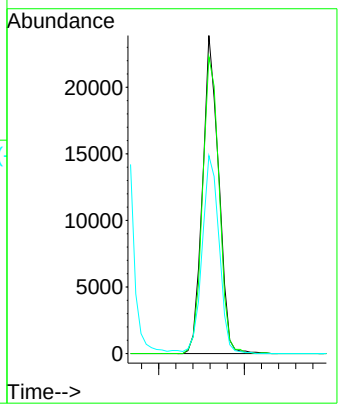
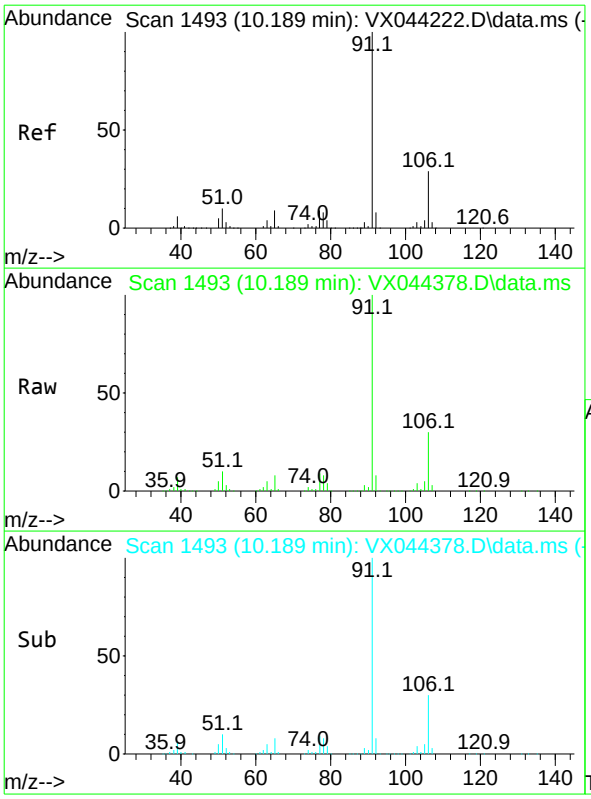


#66
1,1,1,2-Tetrachloroethane
Concen: 19.405 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:131 Resp: 31230

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.3	141.8
119	65.2	31.6	95.0

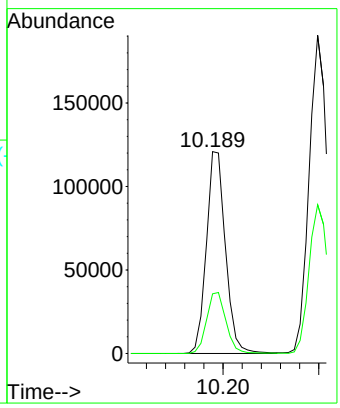




#67
Ethyl Benzene
Concen: 19.327 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 91 Resp: 167223

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.5	35.3



Instrument :
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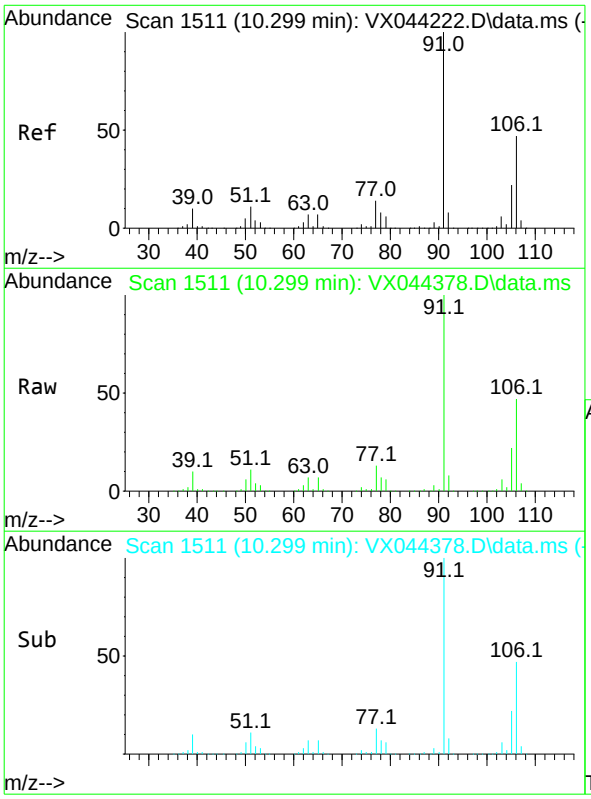
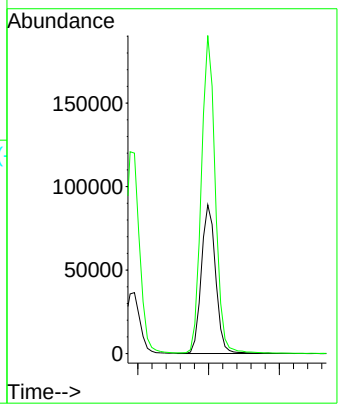
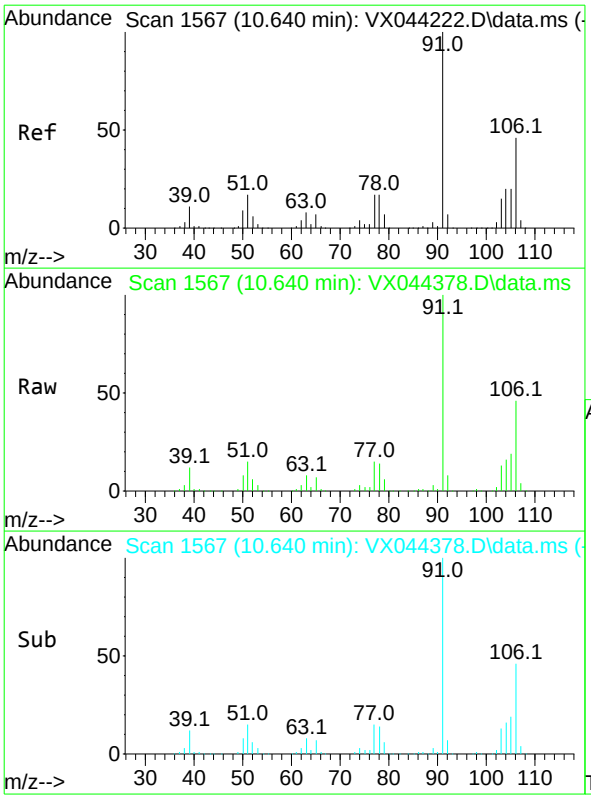


#68
m/p-Xylenes
Concen: 39.322 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:106 Resp: 124845

Ion	Ratio	Lower	Upper
106	100		
91	208.9	170.2	255.2

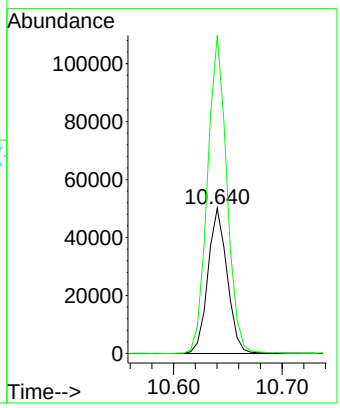




#69
o-Xylene
Concen: 19.219 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:106 Resp: 61740

Ion	Ratio	Lower	Upper
106	100		
91	221.6	112.3	337.0



Instrument :
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ClientSampleId :
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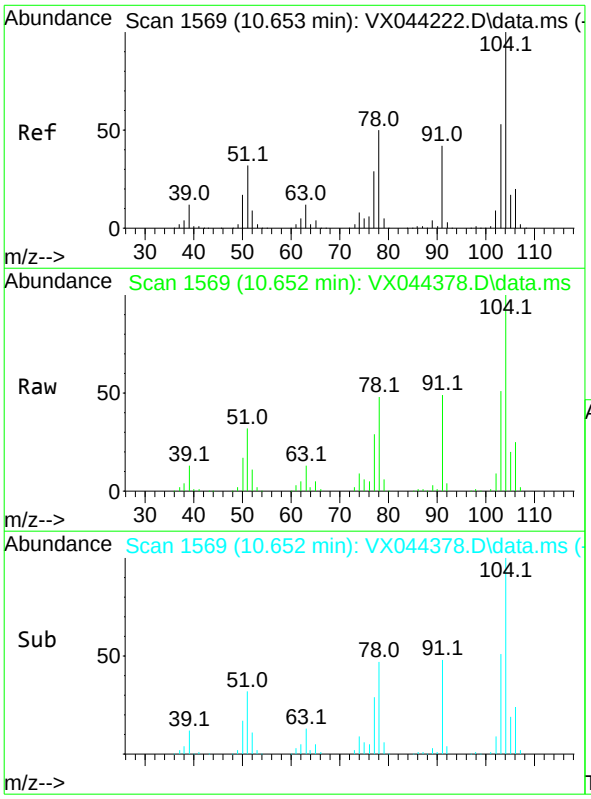
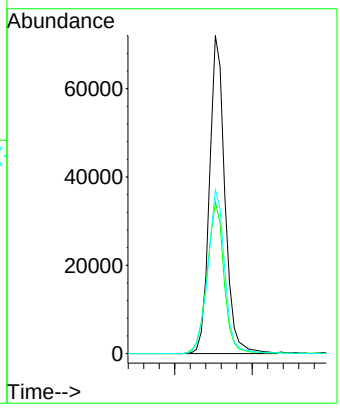
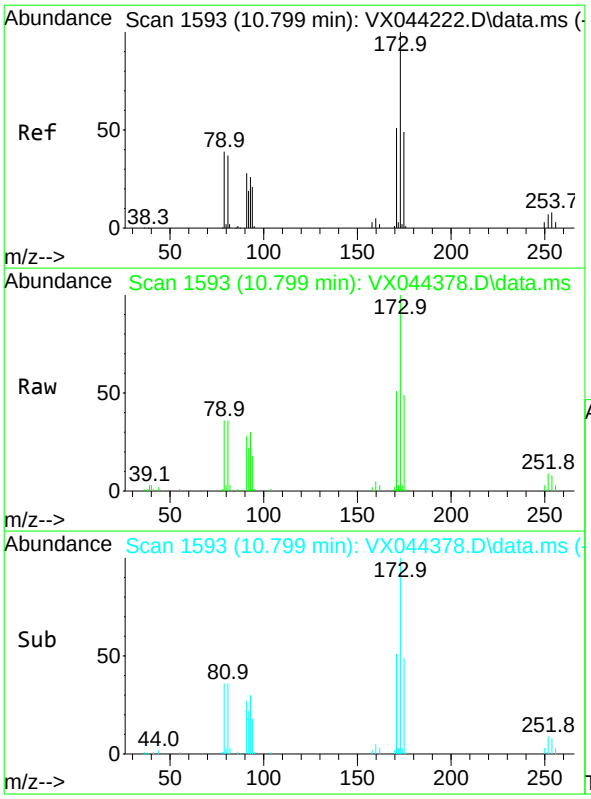


#70
Styrene
Concen: 19.373 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:104 Resp: 99766

Ion	Ratio	Lower	Upper
104	100		
78	52.2	44.6	67.0
103	56.3	45.4	68.0

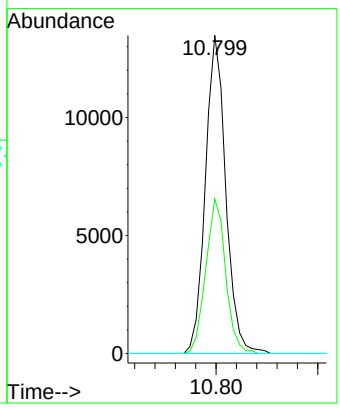




#71
Bromoform
Concen: 18.657 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:173 Resp: 18740

Ion	Ratio	Lower	Upper
173	100		
175	47.3	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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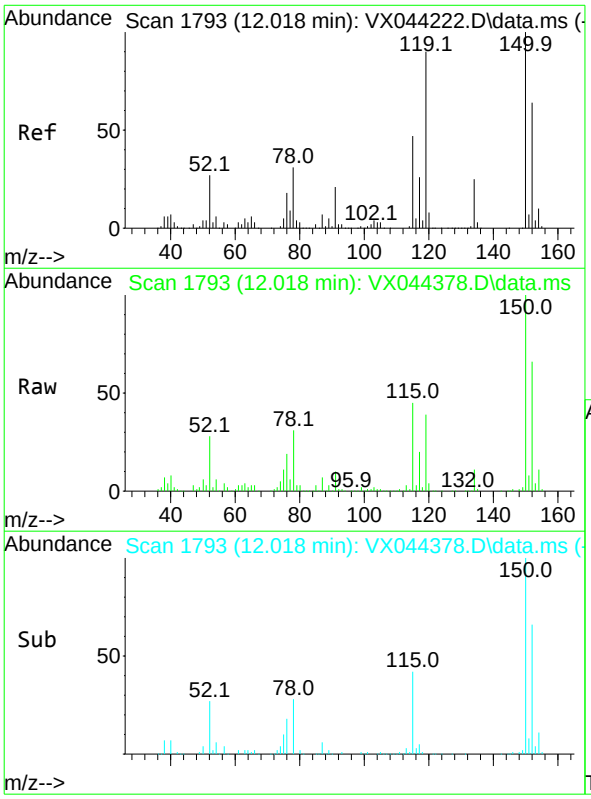
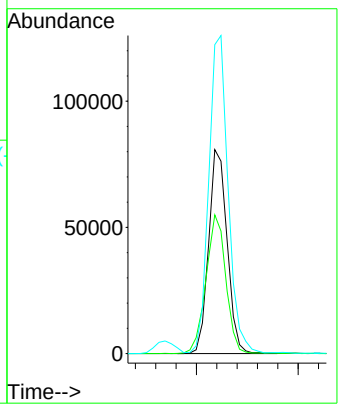
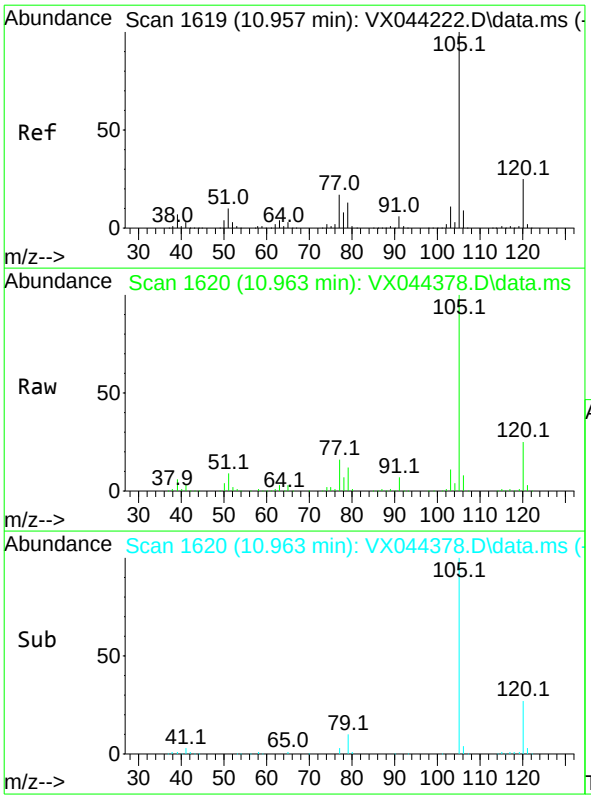


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:152 Resp: 101950

Ion	Ratio	Lower	Upper
152	100		
115	73.4	44.5	133.3
150	162.2	0.0	353.8

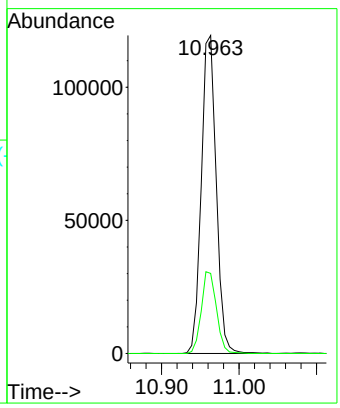




#73
Isopropylbenzene
Concen: 20.438 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:105 Resp: 159509

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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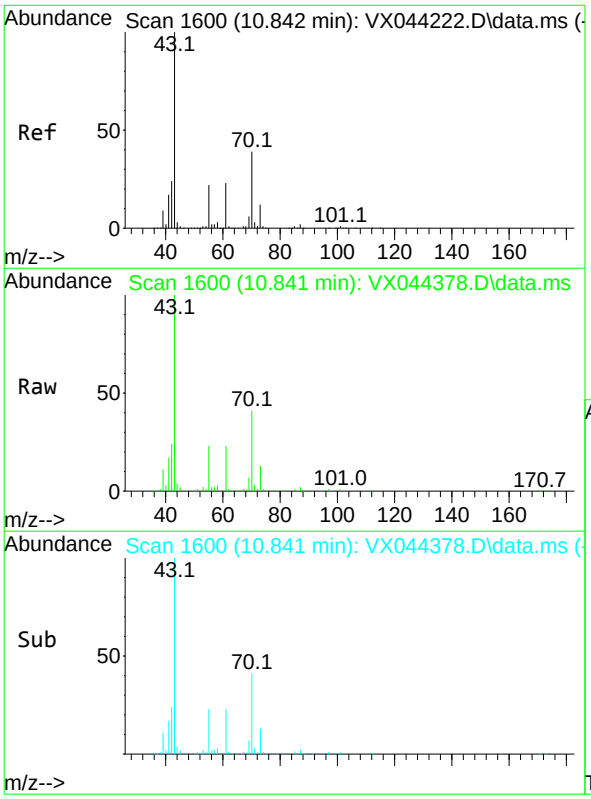
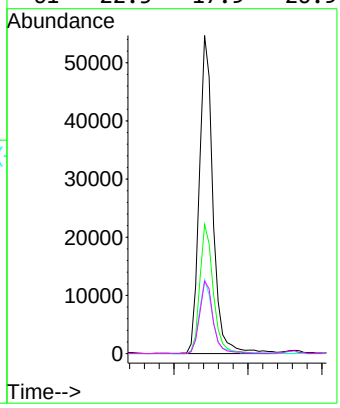
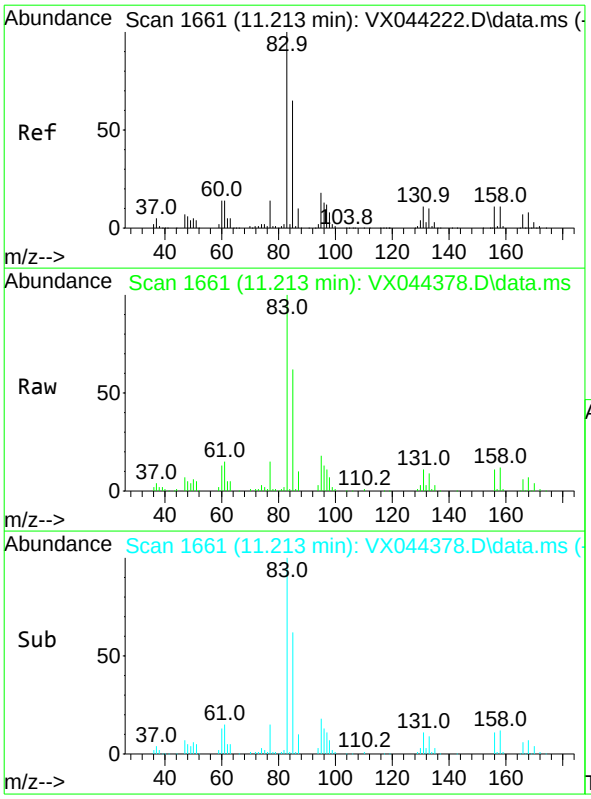


#74
N-amyl acetate
Concen: 19.483 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 70274

Ion	Ratio	Lower	Upper
43	100		
70	40.0	31.9	47.9
55	22.7	17.9	26.9
61	22.5	17.9	26.9

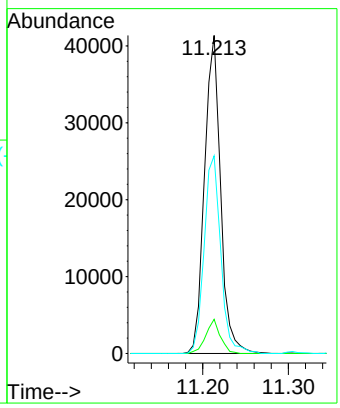




#75
1,1,2,2-Tetrachloroethane
Concen: 19.886 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 83 Resp: 53907

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.1	15.4
85	64.2	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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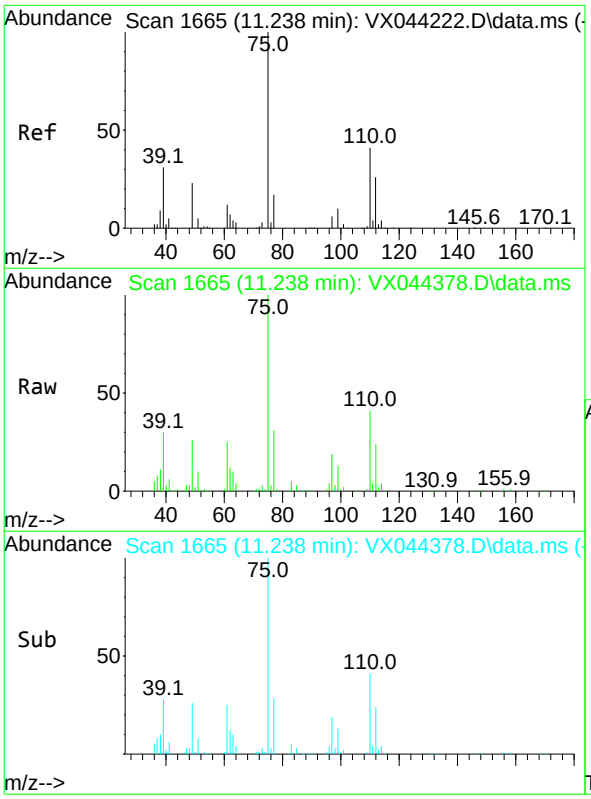
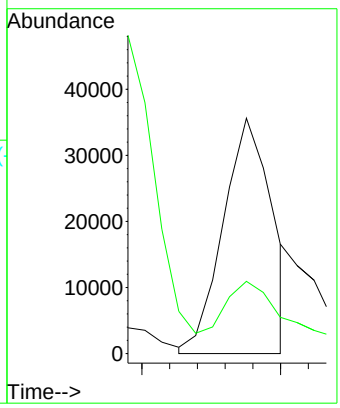
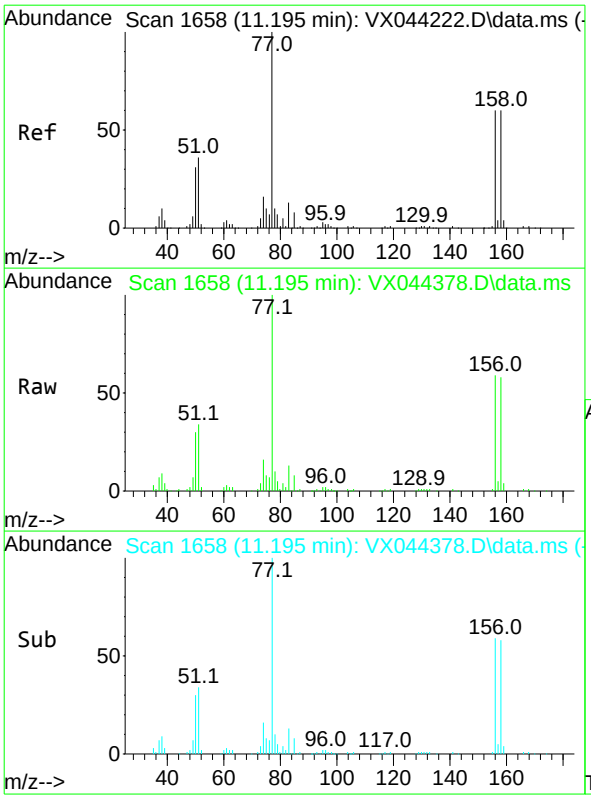


#76
1,2,3-Trichloropropane
Concen: 19.185 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 43670

Ion	Ratio	Lower	Upper
75	100		
77	42.5	20.9	62.7

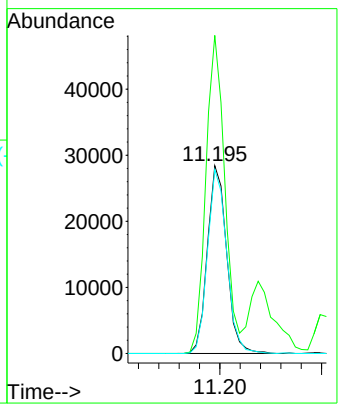




#77
Bromobenzene
Concen: 19.755 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:156 Resp: 37389

Ion	Ratio	Lower	Upper
156	100		
77	165.3	82.6	247.8
158	97.8	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

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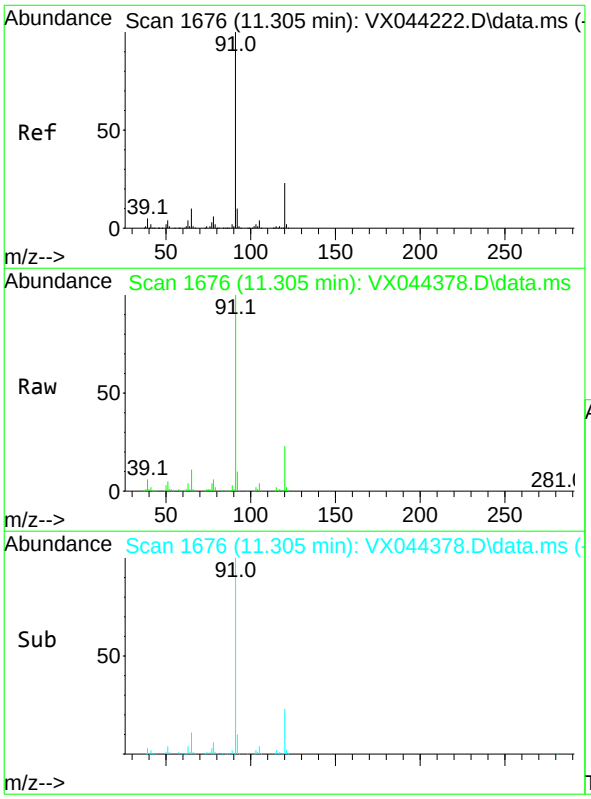
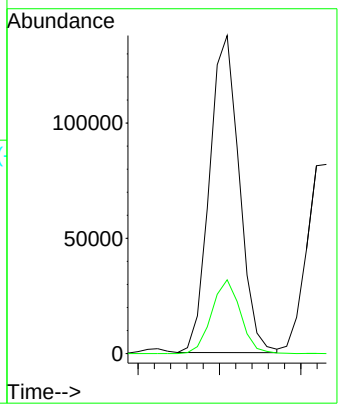
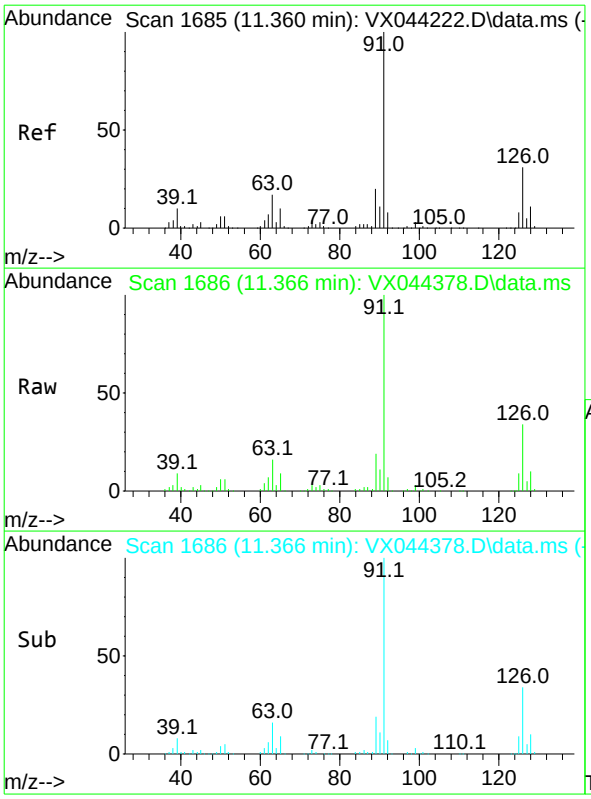


#78
n-propylbenzene
Concen: 20.292 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 91 Resp: 175046

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.0	33.0

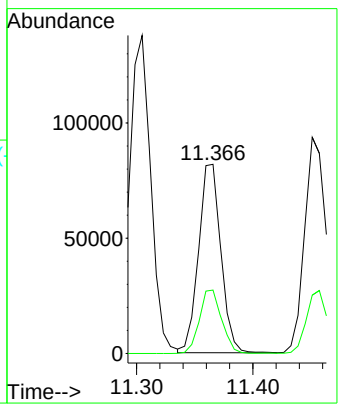




#79
2-Chlorotoluene
Concen: 19.557 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 91 Resp: 109103

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations
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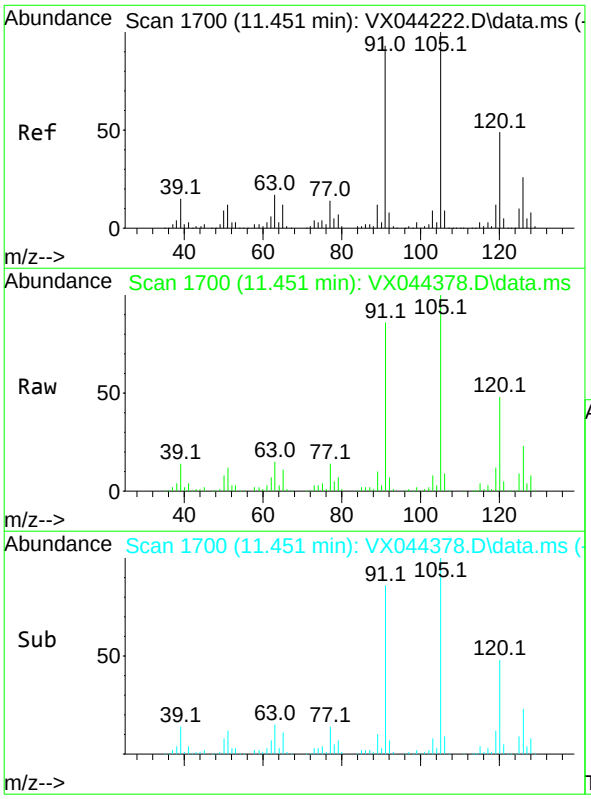
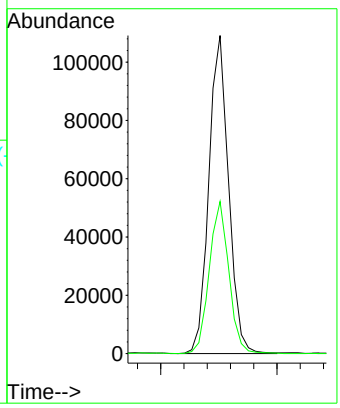
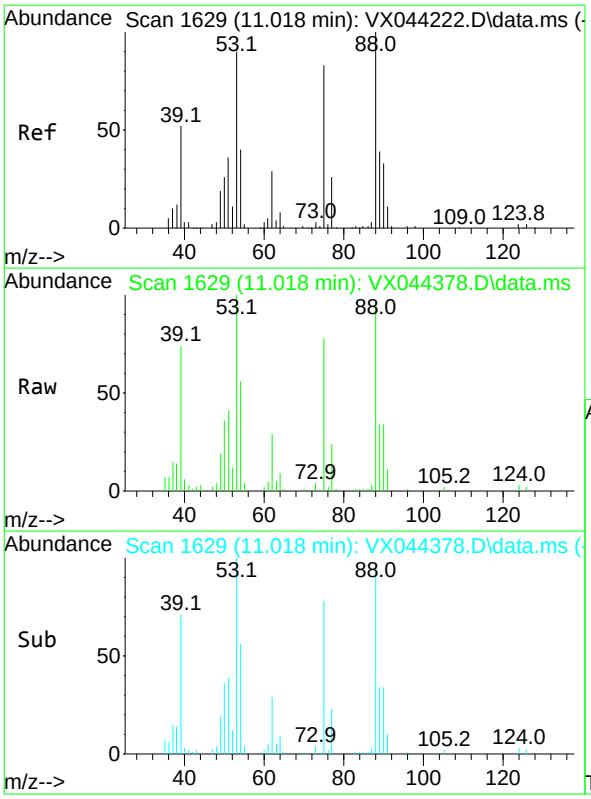


#80
1,3,5-Trimethylbenzene
Concen: 19.891 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:105 Resp: 128741

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.4

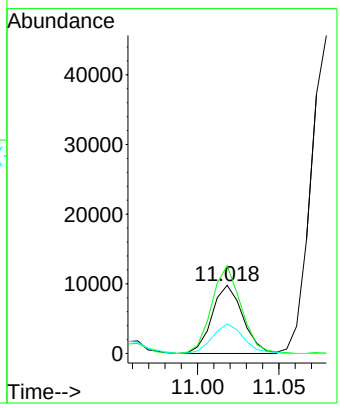




#81
trans-1,4-Dichloro-2-butene
Concen: 20.003 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 12897

Ion	Ratio	Lower	Upper
75	100		
53	123.4	93.6	140.4
89	43.5	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

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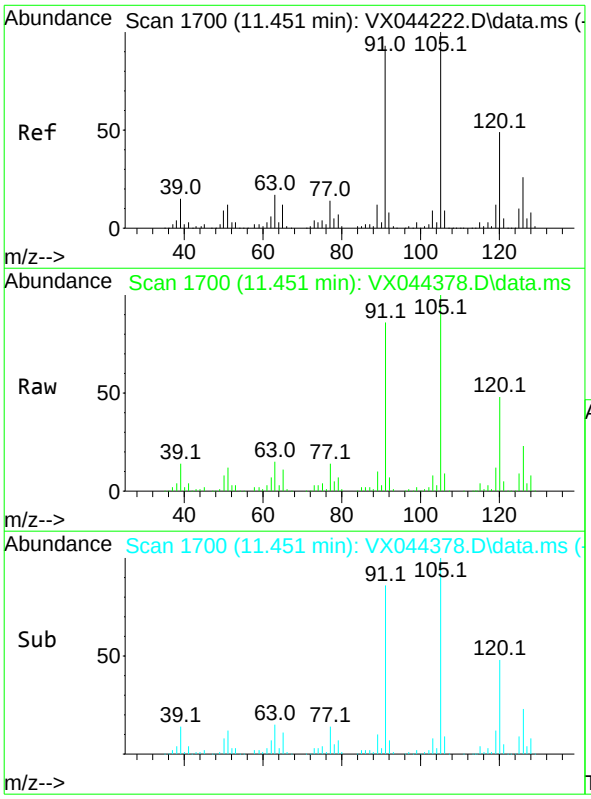
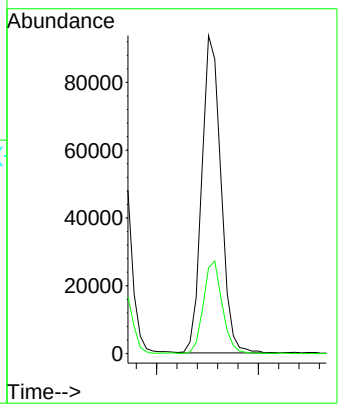
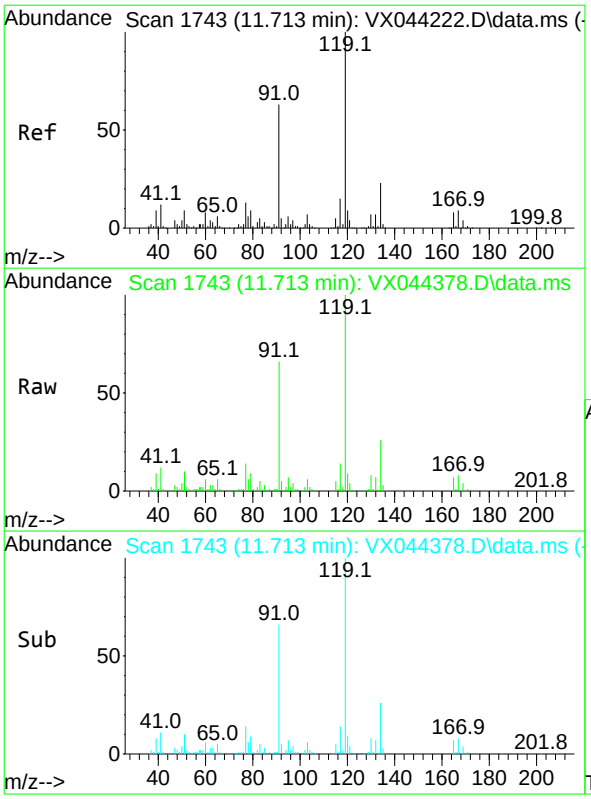


#82
4-Chlorotoluene
Concen: 19.783 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 91 Resp: 122217

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.5	43.5

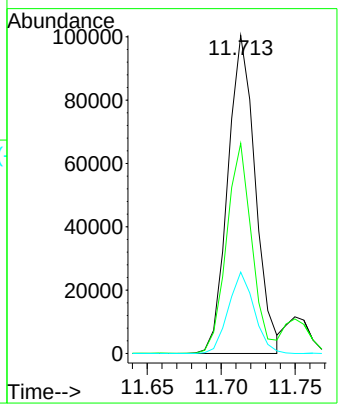




#83
tert-Butylbenzene
Concen: 20.232 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:119 Resp: 129411

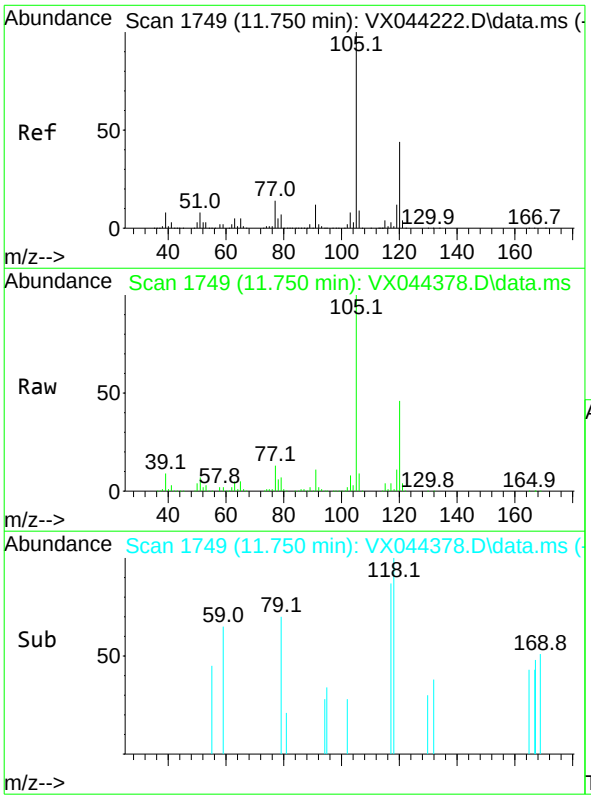
Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.5
134	24.1	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

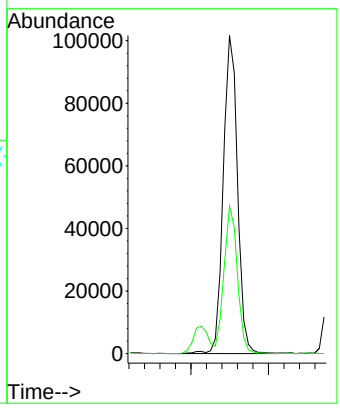
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

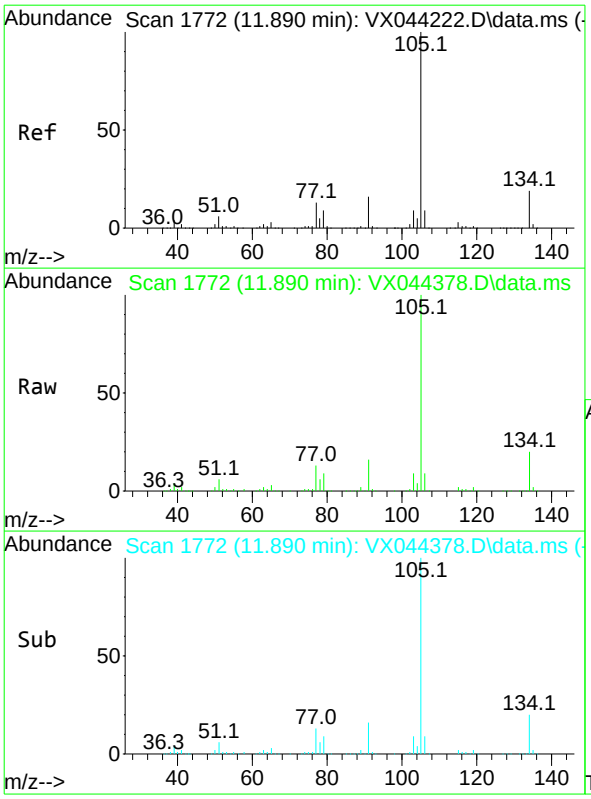


#84
1,2,4-Trimethylbenzene
Concen: 20.340 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:105 Resp: 129290

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.7	65.1

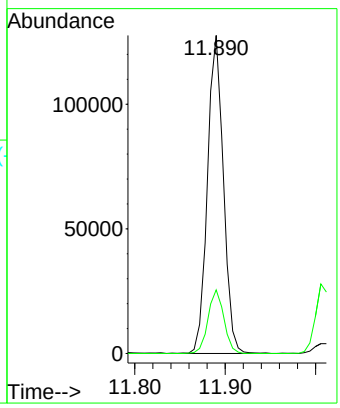




#85
sec-Butylbenzene
Concen: 20.129 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:105 Resp: 156306

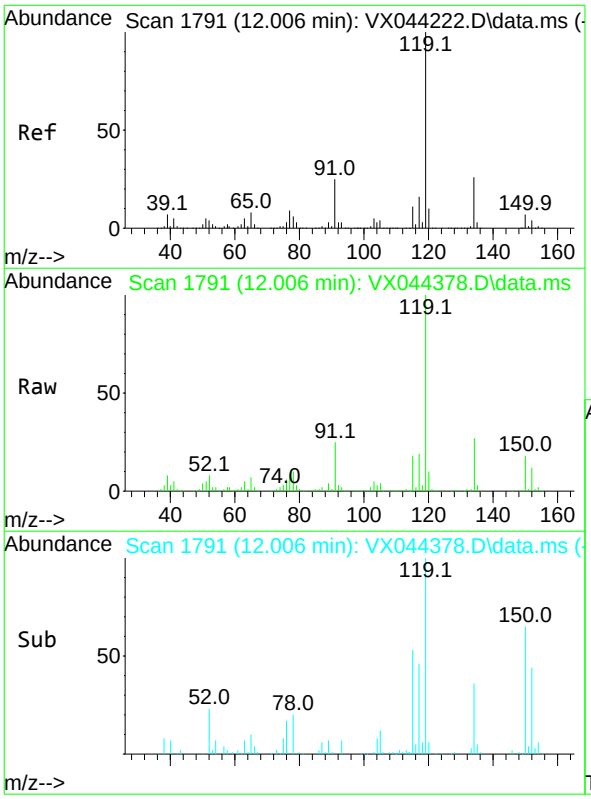
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations
APPROVED

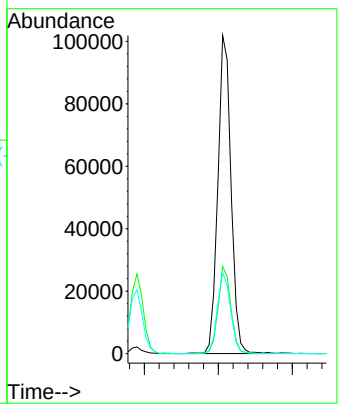
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

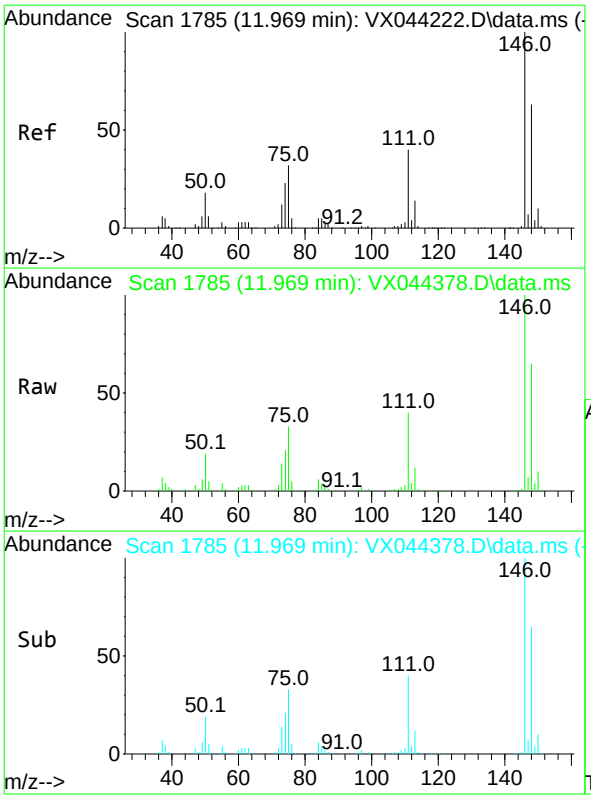


#86
p-Isopropyltoluene
Concen: 19.501 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:119 Resp: 126037

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.8	38.4
91	25.6	13.0	39.0

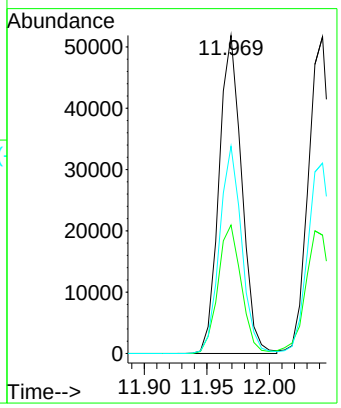




#87
1,3-Dichlorobenzene
Concen: 19.763 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:146 Resp: 65335

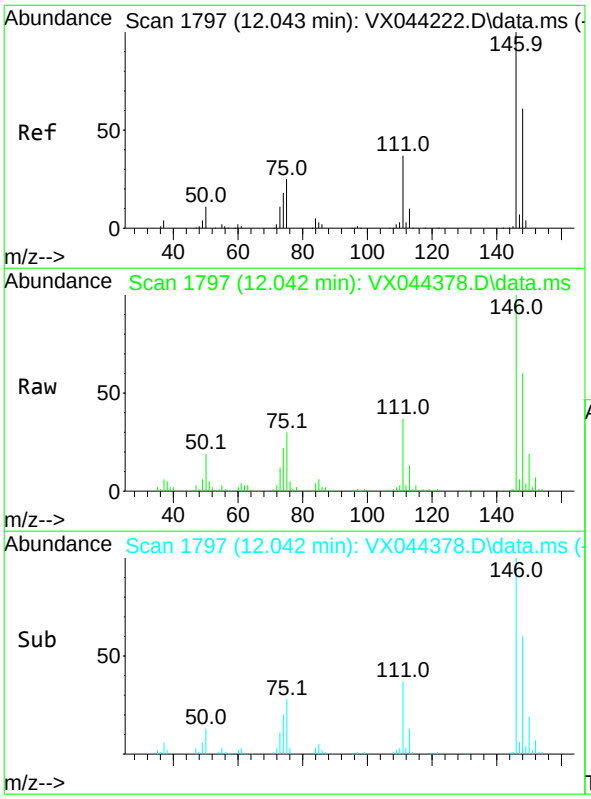
Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.4	64.2
148	63.7	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

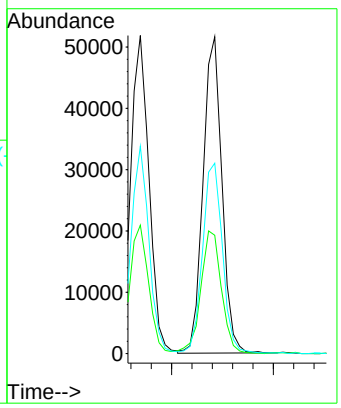
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

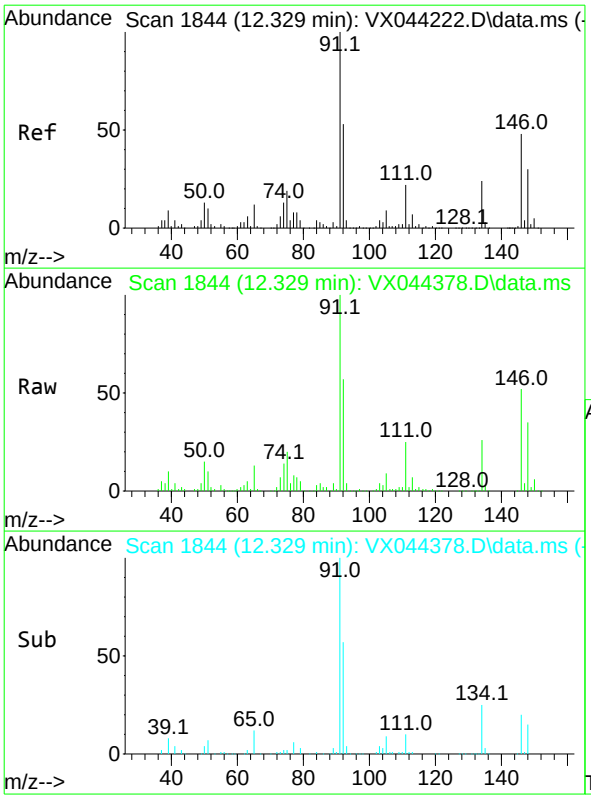


#88
1,4-Dichlorobenzene
Concen: 19.529 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:146 Resp: 66369

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.0	63.0
148	64.2	32.3	96.8

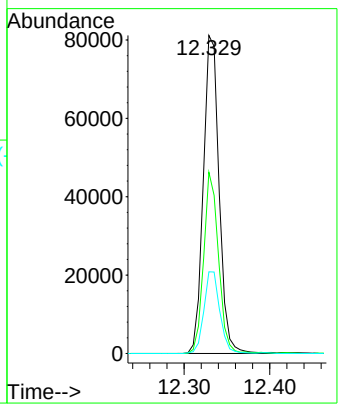




#89
n-Butylbenzene
Concen: 19.124 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 91 Resp: 103934

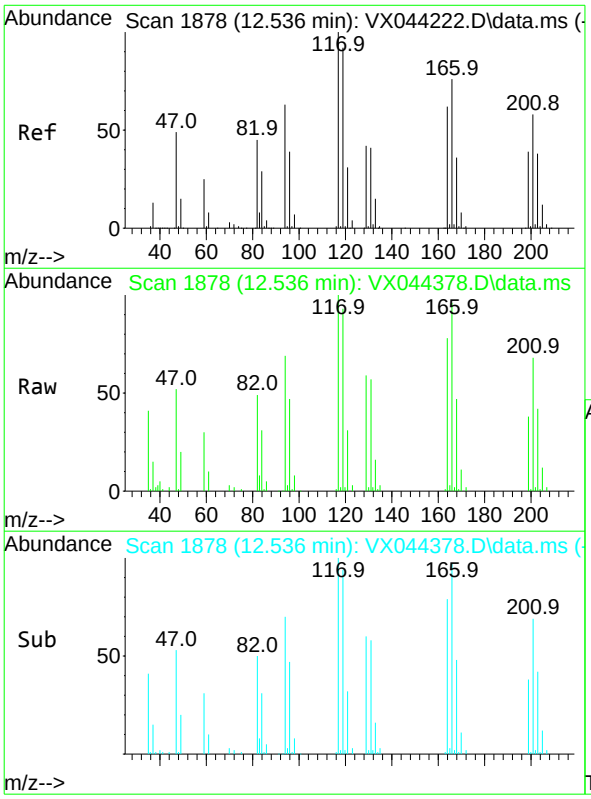
Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	79.7
134	26.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations
APPROVED

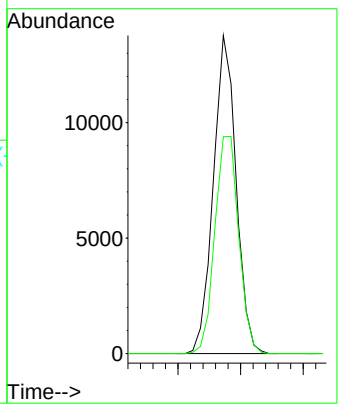
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

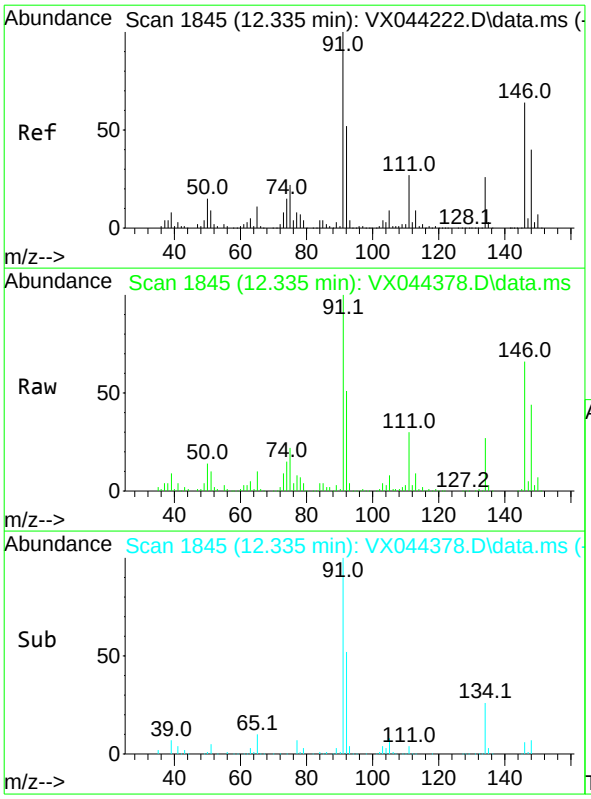


#90
Hexachloroethane
Concen: 18.426 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:117 Resp: 17384

Ion	Ratio	Lower	Upper
117	100		
201	71.8	31.4	94.2

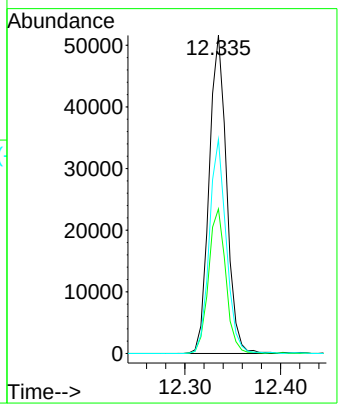




#91
1,2-Dichlorobenzene
Concen: 19.042 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:146 Resp: 65366

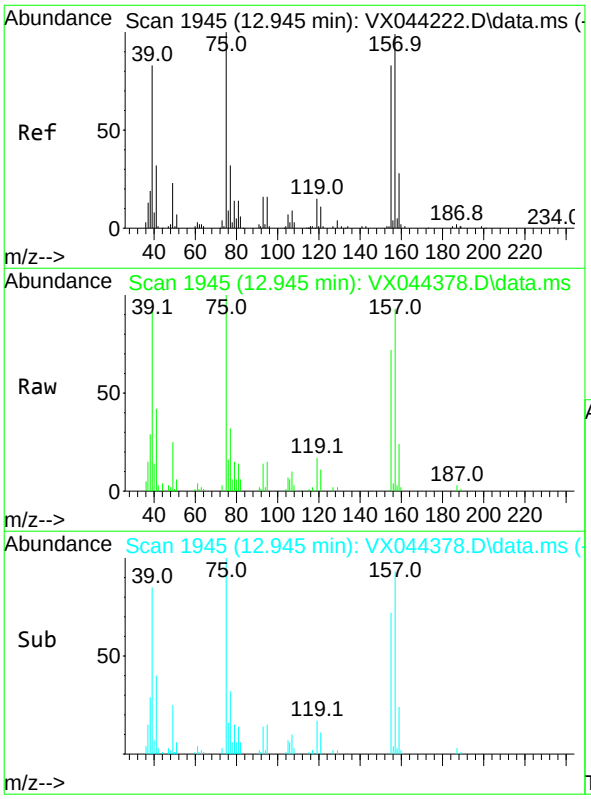
Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.4	64.3
148	65.3	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

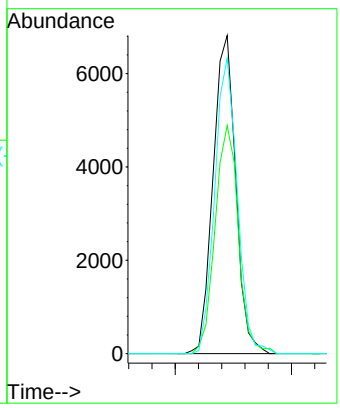
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

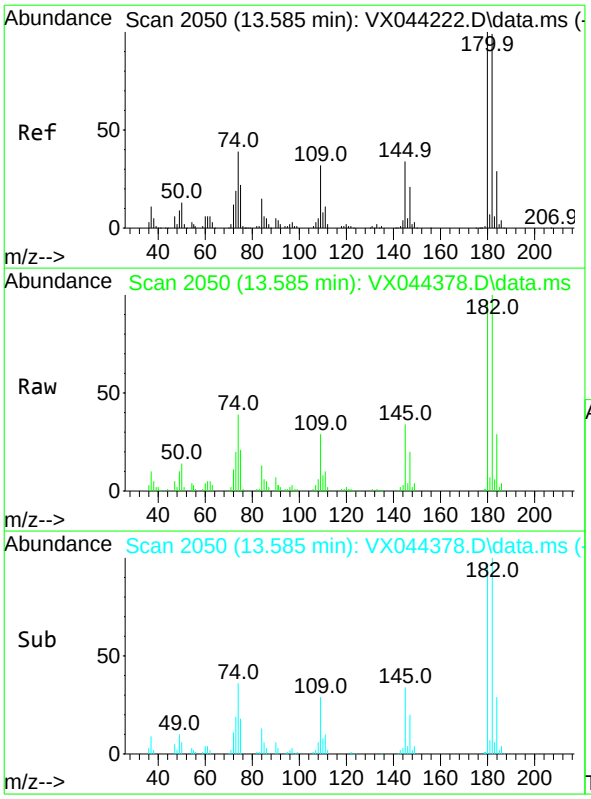


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.498 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 9208

Ion	Ratio	Lower	Upper
75	100		
155	73.4	38.1	114.3
157	92.7	47.2	141.6

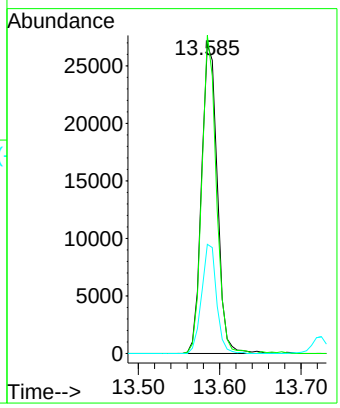




#93
1,2,4-Trichlorobenzene
Concen: 19.227 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:180 Resp: 36183

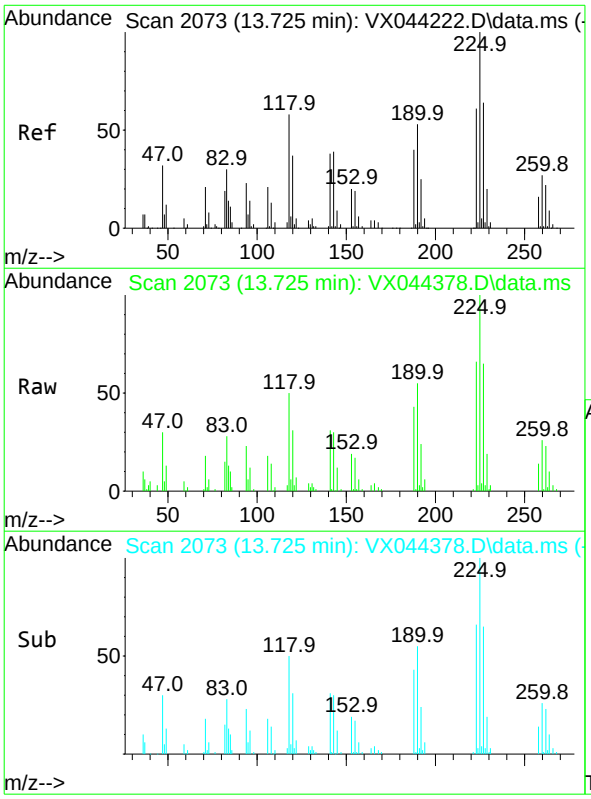
Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.0	144.2
145	33.4	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

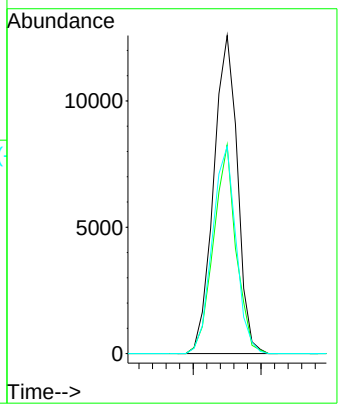
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

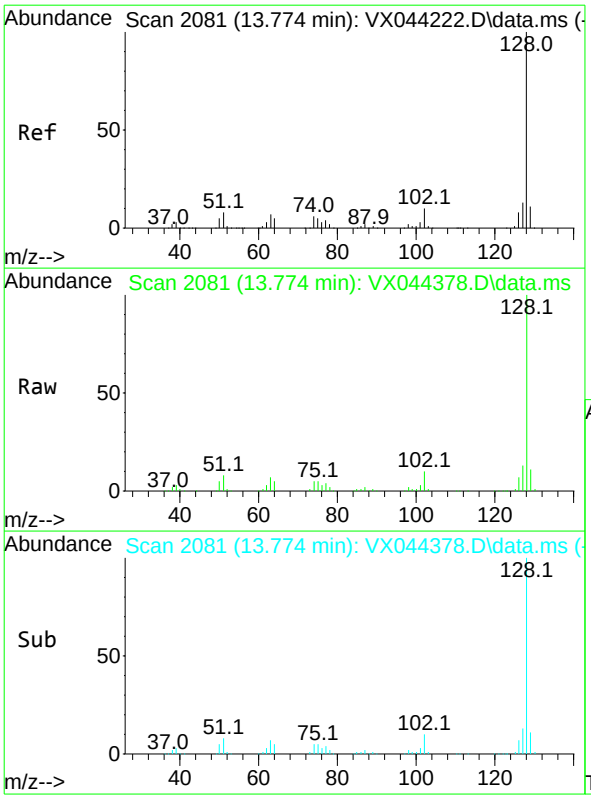


#94
Hexachlorobutadiene
Concen: 20.302 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:225 Resp: 15368

Ion	Ratio	Lower	Upper
225	100		
223	62.2	30.8	92.4
227	64.9	32.1	96.3

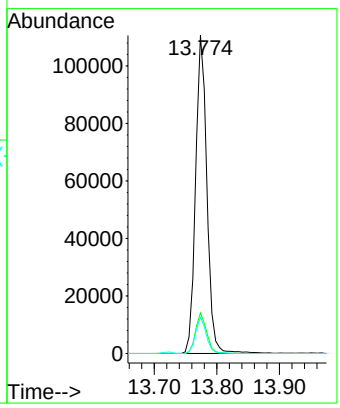




#95
Naphthalene
Concen: 18.928 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:128 Resp: 139046

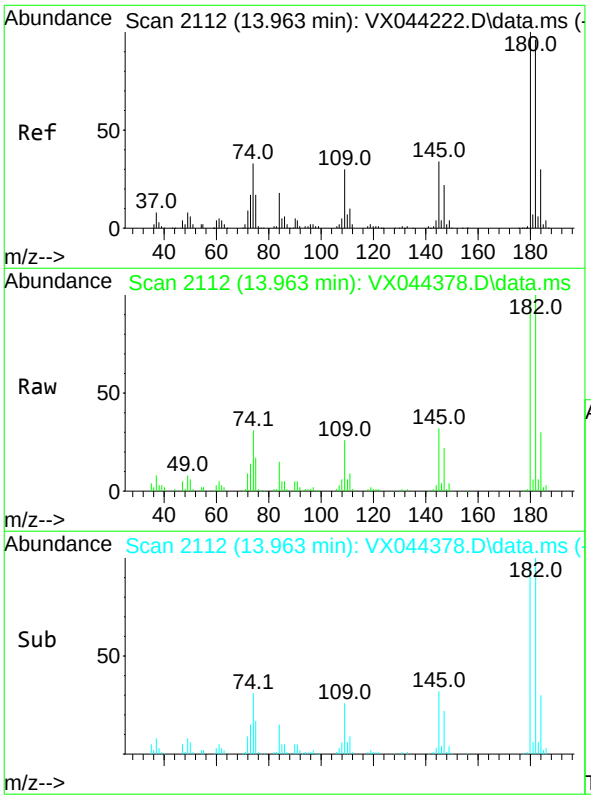
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.5	15.7
129	10.8	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Manual Integrations APPROVED

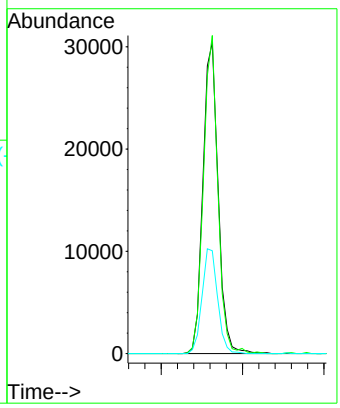
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#96
1,2,3-Trichlorobenzene
Concen: 19.742 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:180 Resp: 39406

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.0	144.0
145	34.4	17.7	53.1



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBS01	SDG No.:	P5281
Lab Sample ID:	VX1220WBS01	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
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	18.5		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	18.7		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.8		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.3		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	75.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.6		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	17.7		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.9		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.6		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	83.3		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.0		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	15.8		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	17.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		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	92.4		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.5		0.18	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBS01	SDG No.:	P5281
Lab Sample ID:	VX1220WBS01	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
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.9		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	90.4		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.8		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.3		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.5		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.5		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.4		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	5.55				
540-36-3	1,4-Difluorobenzene	249000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	96900	12.018				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1220WBS01	SDG No.:	P5281
Lab Sample ID:	VX1220WBS01	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
VX044441.D	1		12/20/24 10:46	VX122024

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\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	146515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	249173	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109691	42.700	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.400%			
35) Dibromofluoromethane	5.379	113	83769	48.541	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.080%			
50) Toluene-d8	8.647	98	283358	48.669	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.340%			
62) 4-Bromofluorobenzene	11.079	95	94485	46.443	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	41893	18.492	ug/l	95
3) Chloromethane	1.294	50	40546	18.715	ug/l	99
4) Vinyl Chloride	1.374	62	40370	17.887	ug/l	97
5) Bromomethane	1.599	94	30109	18.804	ug/l	96
6) Chloroethane	1.666	64	27776	19.764	ug/l	99
7) Trichlorofluoromethane	1.874	101	67604	15.300	ug/l	99
8) Diethyl Ether	2.136	74	26079	17.291	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	33030	18.474	ug/l	94
10) Methyl Iodide	2.447	142	45795	19.434	ug/l	96
11) Tert butyl alcohol	2.989	59	33237	91.803	ug/l	96
12) 1,1-Dichloroethene	2.312	96	30995	18.873	ug/l	96
13) Acrolein	2.239	56	44044	84.041	ug/l	96
14) Allyl chloride	2.660	41	49108	17.953	ug/l	96
15) Acrylonitrile	3.068	53	90872	90.610	ug/l	99
16) Acetone	2.386	43	79327	75.745	ug/l	91
17) Carbon Disulfide	2.501	76	51100	16.369	ug/l	100
18) Methyl Acetate	2.703	43	47831	17.713	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	112975	17.629	ug/l	97
20) Methylene Chloride	2.782	84	37654	19.142	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	32618	18.688	ug/l	96
22) Diisopropyl ether	3.763	45	110674	17.968	ug/l	97
23) Vinyl Acetate	3.721	43	456052	91.069	ug/l	99
24) 1,1-Dichloroethane	3.605	63	64973	18.923	ug/l	98
25) 2-Butanone	4.562	43	124008	83.289	ug/l	98
26) 2,2-Dichloropropane	4.471	77	51269	18.380	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	39842	17.974	ug/l	97
28) Bromochloromethane	4.891	49	26535	15.760	ug/l	97
29) Tetrahydrofuran	5.007	42	81181	84.947	ug/l	99
30) Chloroform	5.092	83	68227	17.686	ug/l	99
31) Cyclohexane	5.470	56	48875	17.628	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	55907	17.459	ug/l	98
36) 1,1-Dichloropropene	5.690	75	41416	18.566	ug/l	97
37) Ethyl Acetate	4.721	43	48014	17.412	ug/l	96
38) Carbon Tetrachloride	5.672	117	45386	18.898	ug/l	93
39) Methylcyclohexane	7.373	83	51554	19.332	ug/l	98
40) Benzene	6.031	78	137885	20.358	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	26859	18.343 ug/l	98
42) 1,2-Dichloroethane	6.086	62	53588	19.207 ug/l	97
43) Isopropyl Acetate	6.342	43	79207	18.378 ug/l	99
44) Trichloroethene	7.123	130	33615	19.902 ug/l	88
45) 1,2-Dichloropropane	7.427	63	33011	19.077 ug/l	97
46) Dibromomethane	7.580	93	26495	19.737 ug/l	95
47) Bromodichloromethane	7.818	83	44357	19.132 ug/l	98
48) Methyl methacrylate	7.690	41	36154	17.281 ug/l	94
49) 1,4-Dioxane	7.671	88	10158	292.846 ug/l #	79
51) 4-Methyl-2-Pentanone	8.574	43	255984	92.373 ug/l	99
52) Toluene	8.714	92	82957	19.504 ug/l	97
53) t-1,3-Dichloropropene	8.976	75	41417	17.860 ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	48359	19.157 ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	35148	20.801 ug/l	96
56) Ethyl methacrylate	9.116	69	48642	18.235 ug/l	100
57) 1,3-Dichloropropane	9.305	76	56644	19.260 ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	109022	81.033 ug/l	99
59) 2-Hexanone	9.433	43	181241	90.356 ug/l	99
60) Dibromochloromethane	9.518	129	31411	18.848 ug/l	99
61) 1,2-Dibromoethane	9.610	107	34801	20.234 ug/l	100
64) Tetrachloroethene	9.269	164	29267	20.762 ug/l	96
65) Chlorobenzene	10.079	112	90589	19.906 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	30193	20.643 ug/l	99
67) Ethyl Benzene	10.189	91	151105	19.217 ug/l	100
68) m/p-Xylenes	10.299	106	114910	39.825 ug/l	97
69) o-Xylene	10.640	106	57794	19.797 ug/l	95
70) Styrene	10.652	104	92784	19.825 ug/l	96
71) Bromoform	10.799	173	17659	19.275 ug/l #	97
73) Isopropylbenzene	10.963	105	147393	19.872 ug/l	99
74) N-amyl acetate	10.841	43	61829	18.038 ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	50416	19.570 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	40633m	18.784 ug/l	
77) Bromobenzene	11.195	156	36233	20.145 ug/l	95
78) n-propylbenzene	11.299	91	162028	19.765 ug/l	98
79) 2-Chlorotoluene	11.360	91	102209	19.279 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	121225	19.709 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	11072	18.609 ug/l	91
82) 4-Chlorotoluene	11.451	91	112263	19.122 ug/l	97
83) tert-Butylbenzene	11.713	119	120518	19.827 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	121322	20.085 ug/l	98
85) sec-Butylbenzene	11.890	105	143732	19.477 ug/l	100
86) p-Isopropyltoluene	12.006	119	120356	19.596 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	63016	20.058 ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	64444	19.954 ug/l	98
89) n-Butylbenzene	12.329	91	94402	18.279 ug/l	97
90) Hexachloroethane	12.536	117	16712	18.640 ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	64584	19.798 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8263	16.523 ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	34820	19.470 ug/l	97
94) Hexachlorobutadiene	13.725	225	15232	21.174 ug/l	99
95) Naphthalene	13.774	128	124472	17.830 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	36757	19.378 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

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\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

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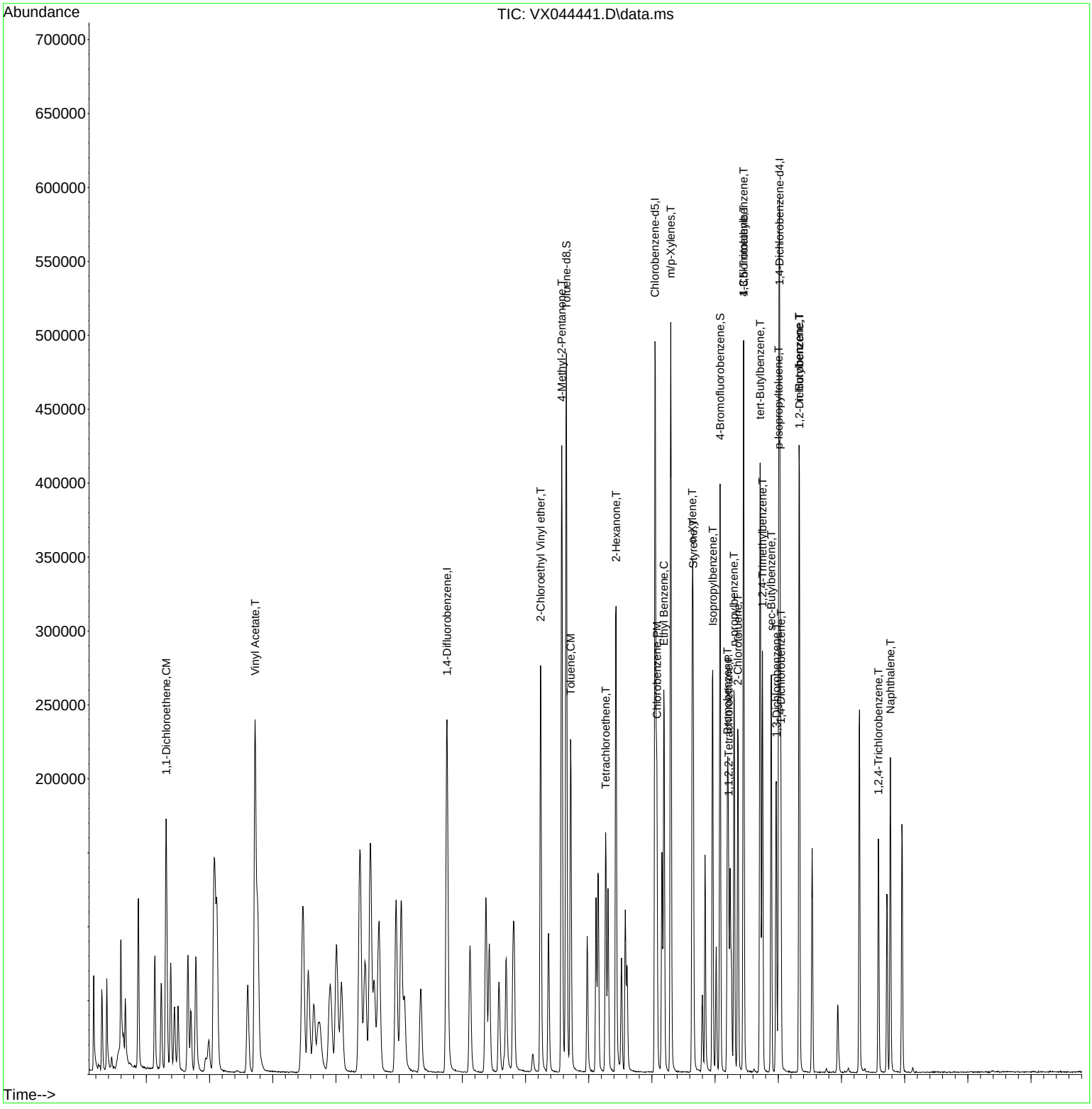
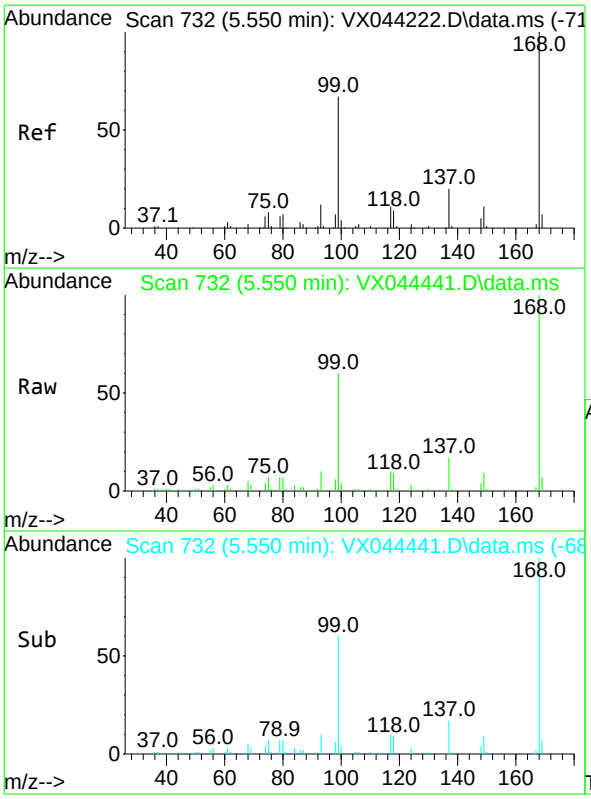
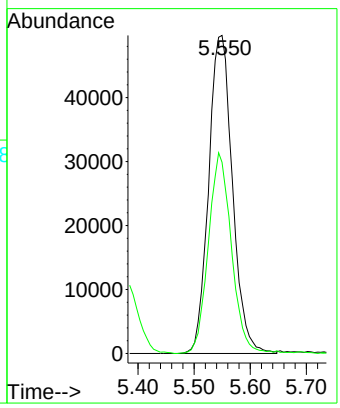




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:168 Resp: 146515

Ion	Ratio	Lower	Upper
168	100		
99	60.1	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
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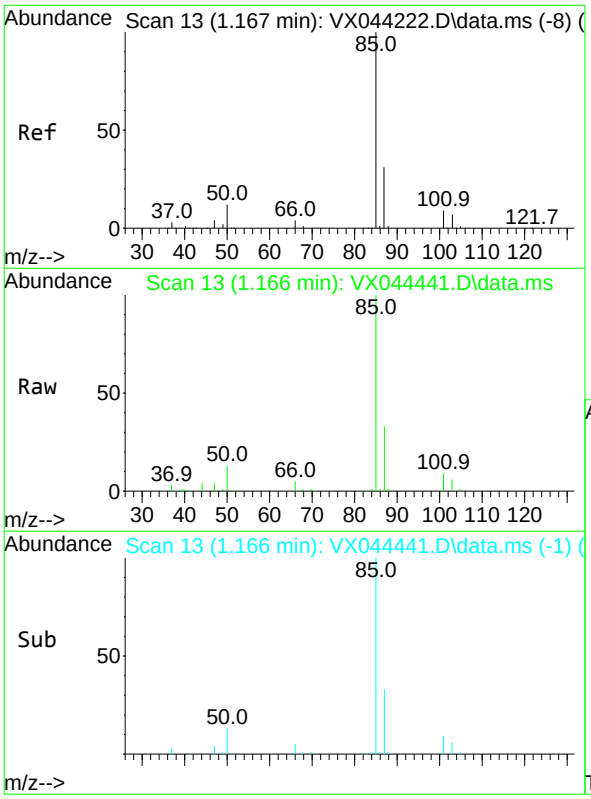
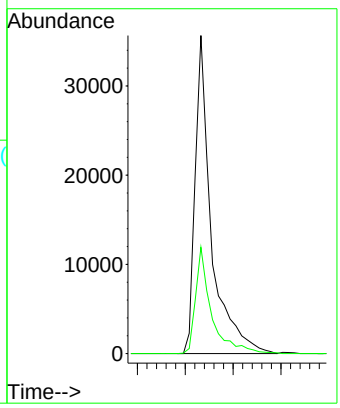
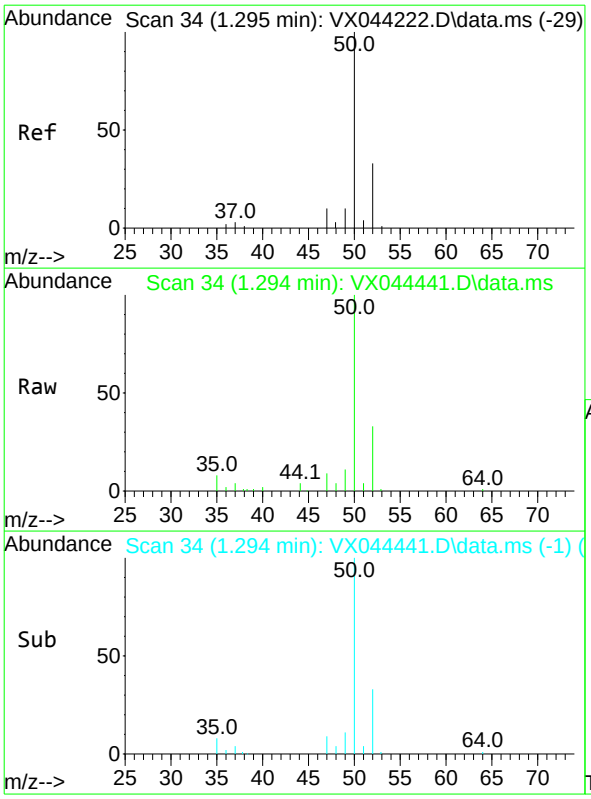


#2
Dichlorodifluoromethane
Concen: 18.492 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 85 Resp: 41893

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4

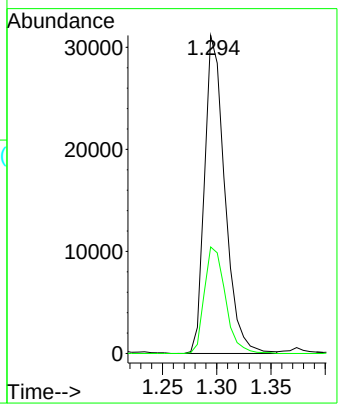




#3
Chloromethane
Concen: 18.715 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 50 Resp: 40546

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
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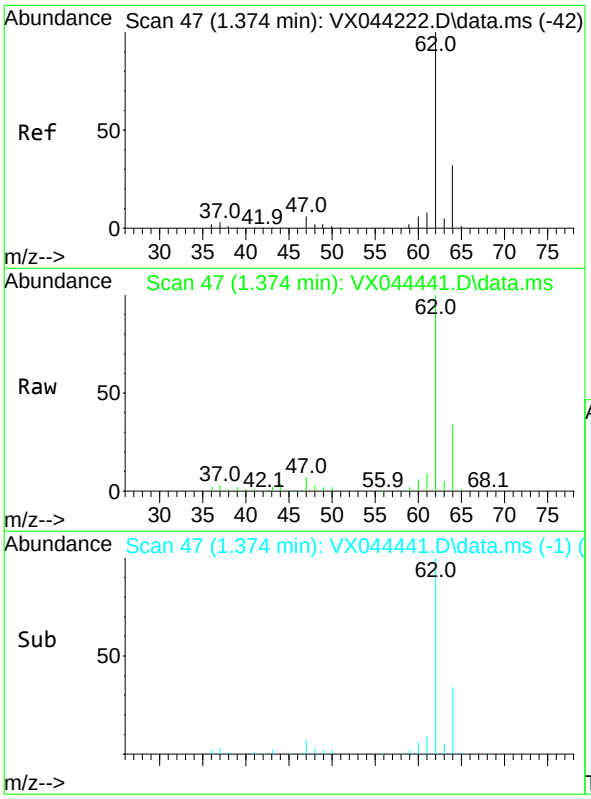
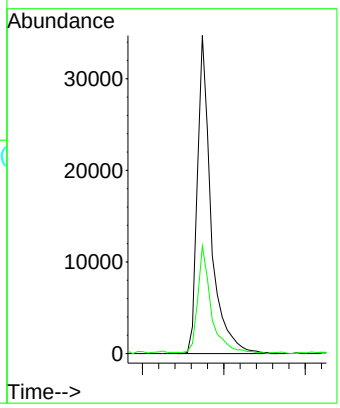
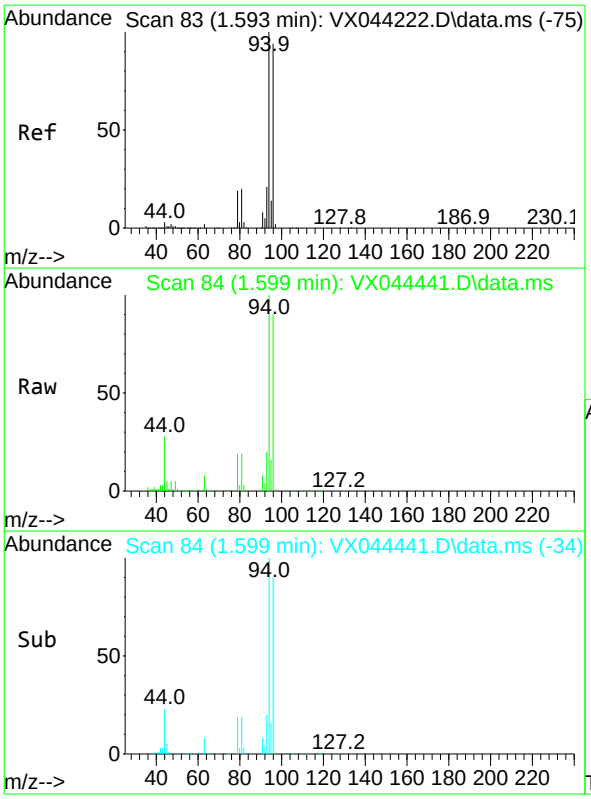


#4
Vinyl Chloride
Concen: 17.887 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 40370

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.7	38.5

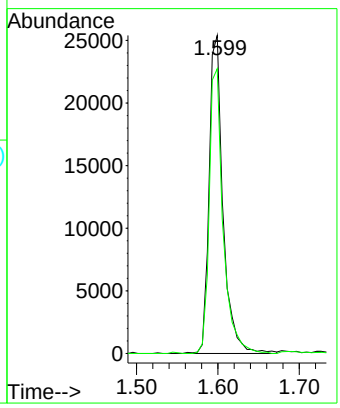




#5
Bromomethane
Concen: 18.804 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 94 Resp: 30109

Ion	Ratio	Lower	Upper
94	100		
96	89.5	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/23/2024
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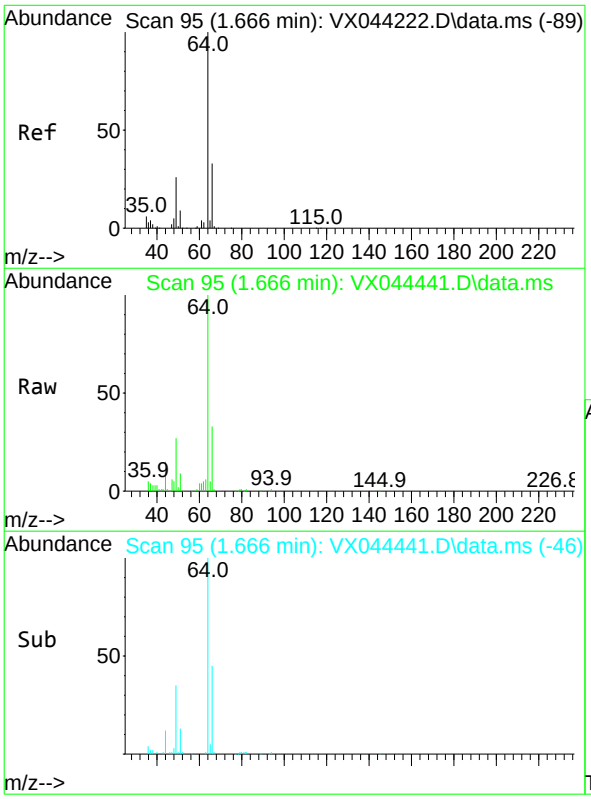
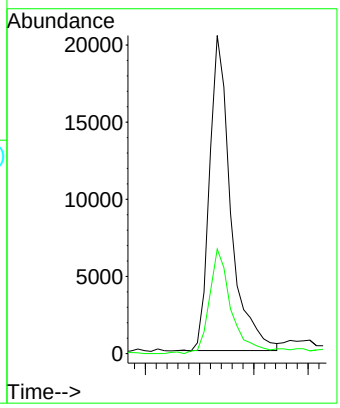
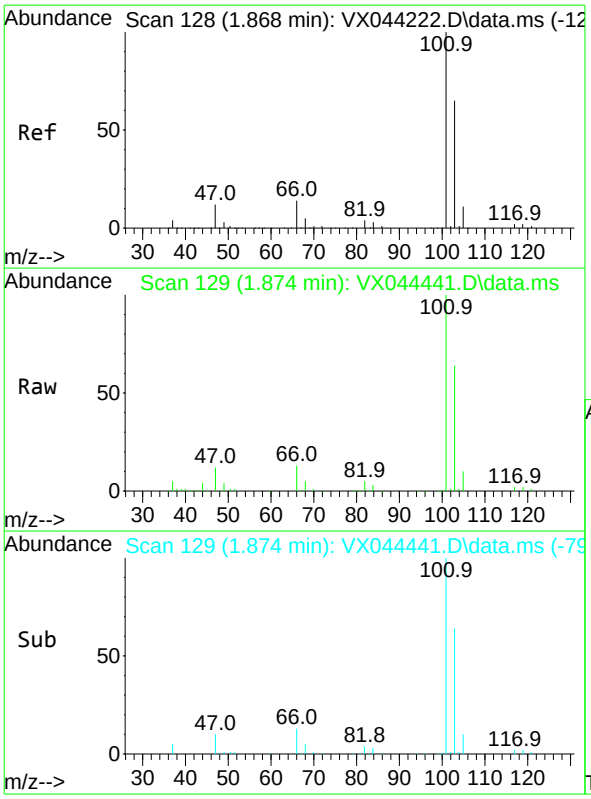


#6
Chloroethane
Concen: 19.764 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 64 Resp: 27776

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.6	39.8

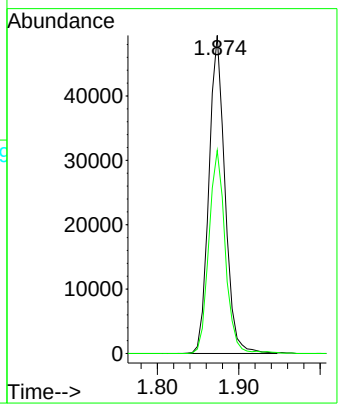




#7
Trichlorofluoromethane
Concen: 15.300 ug/l
RT: 1.874 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:101 Resp: 67604

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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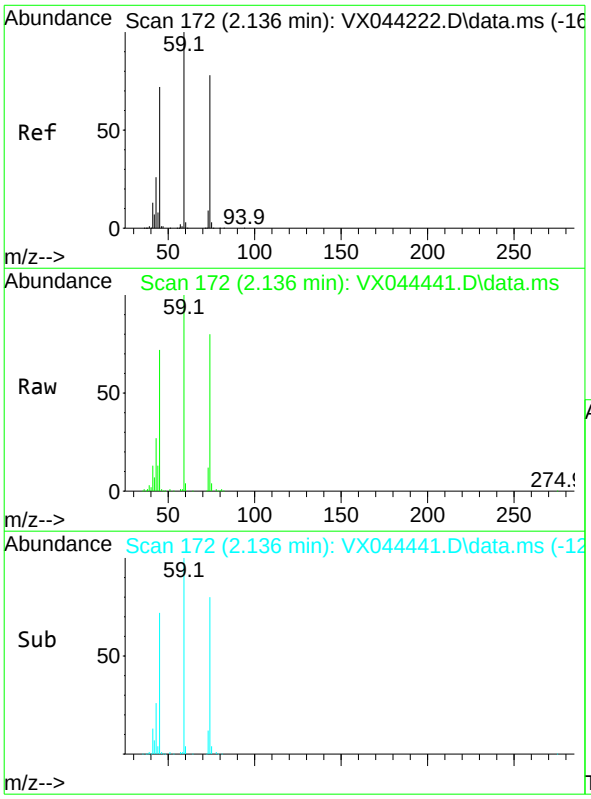
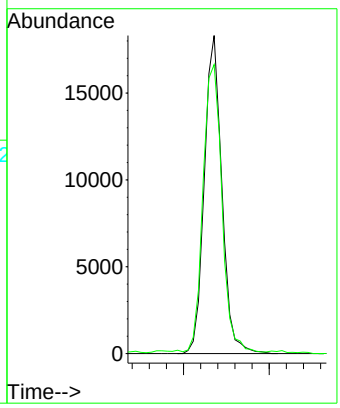
Supervised By :Mahesh Dadoda 12/24/2024

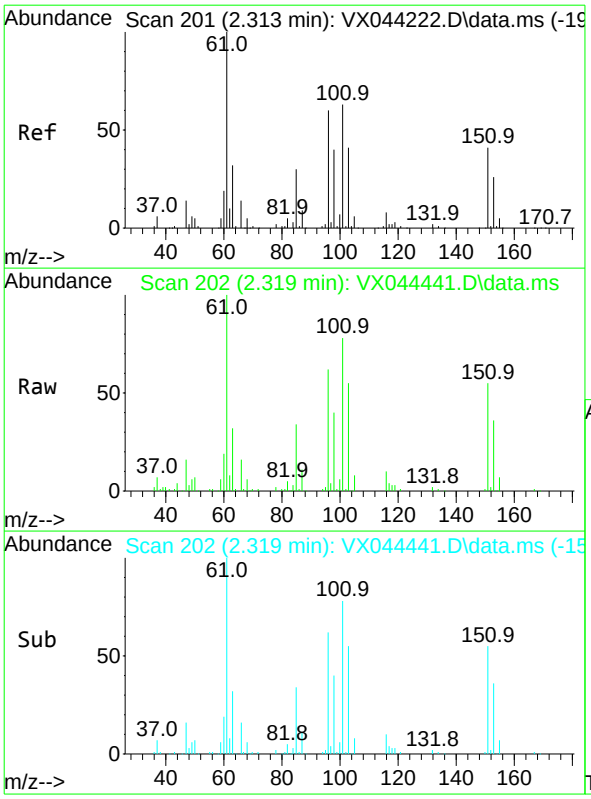


#8
Diethyl Ether
Concen: 17.291 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 74 Resp: 26079

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.4	145.0

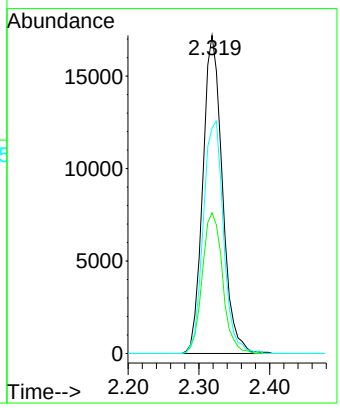




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.474 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:101 Resp: 33030

Ion	Ratio	Lower	Upper
101	100		
85	45.8	38.5	57.7
151	75.4	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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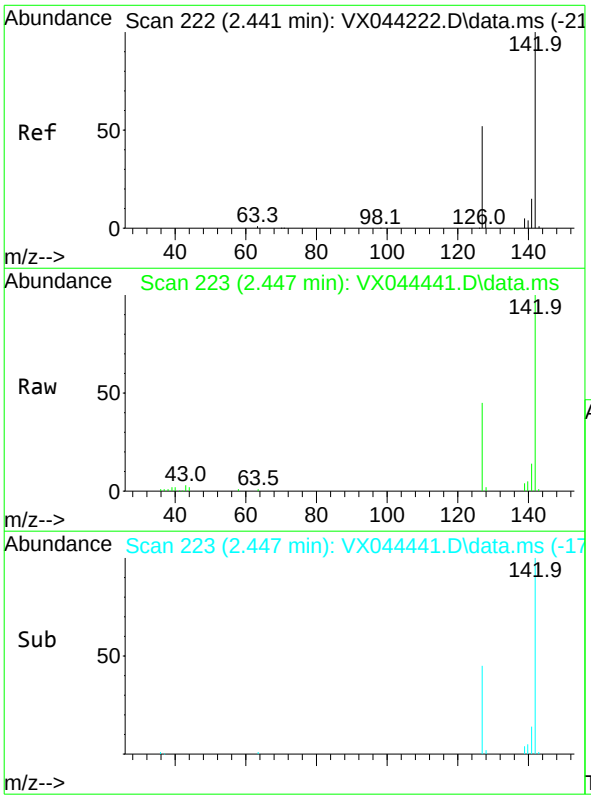
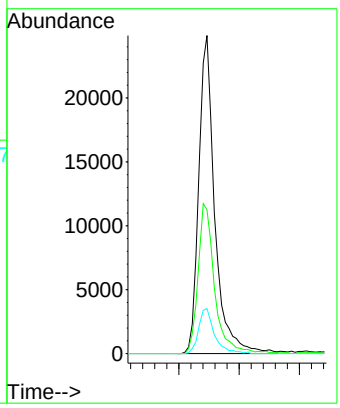
Supervised By :Mahesh Dadoda 12/24/2024

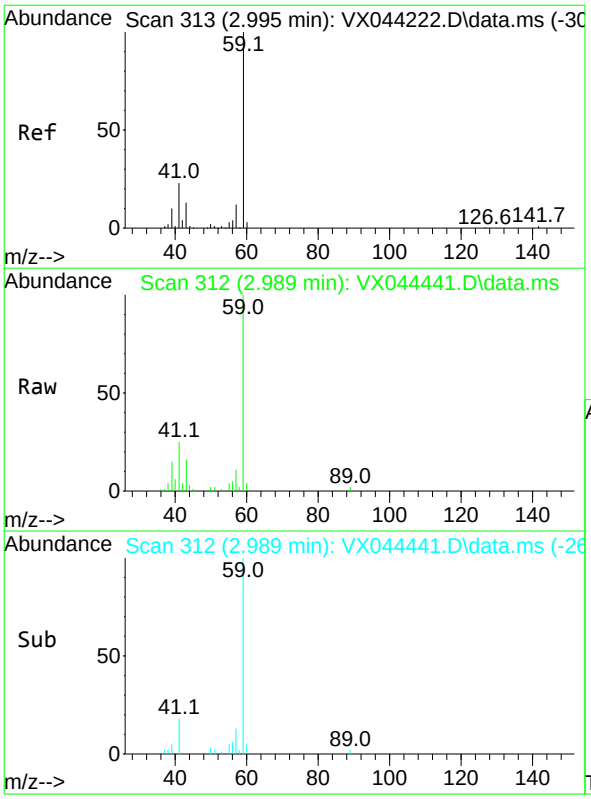


#10
Methyl Iodide
Concen: 19.434 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:142 Resp: 45795

Ion	Ratio	Lower	Upper
142	100		
127	48.9	41.8	62.8
141	14.0	11.5	17.3

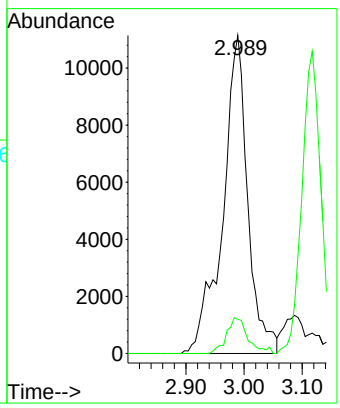




#11
Tert butyl alcohol
Concen: 91.803 ug/l
RT: 2.989 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 59 Resp: 33237

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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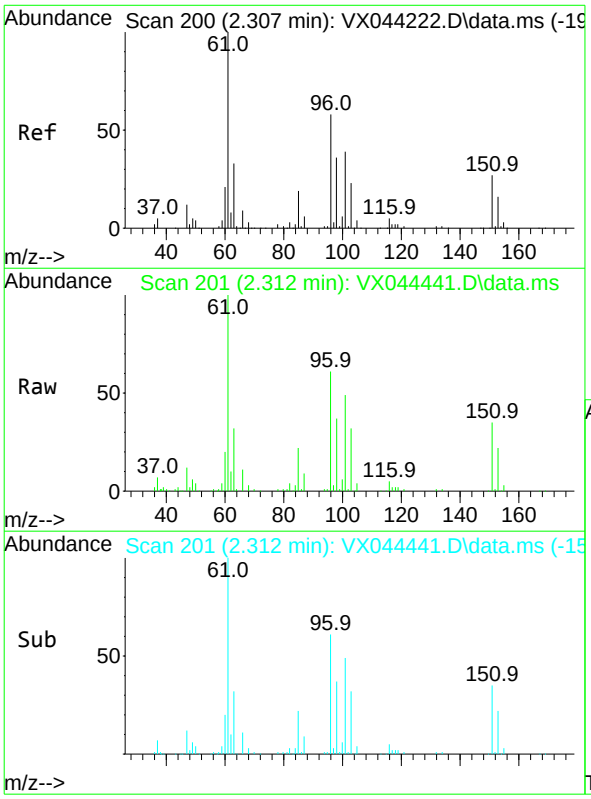
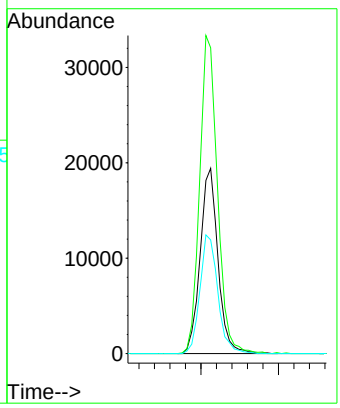
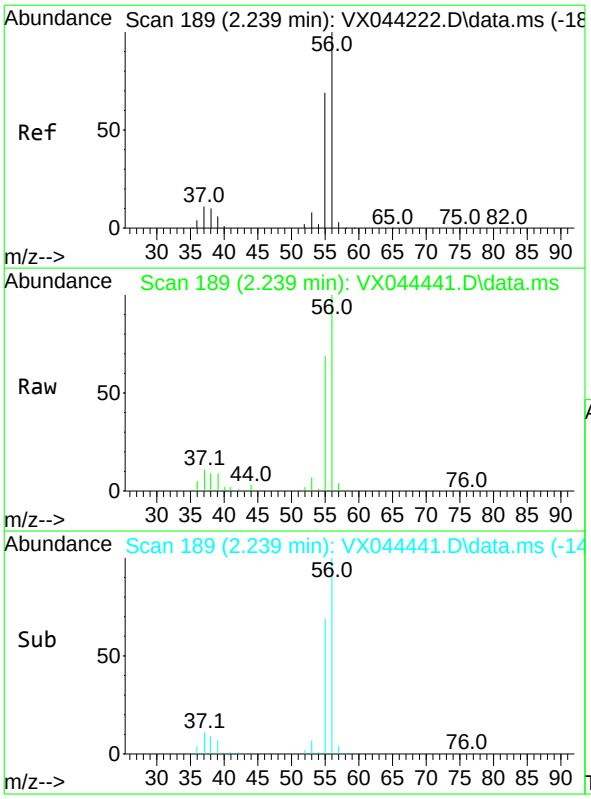


#12
1,1-Dichloroethene
Concen: 18.873 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 30995

Ion	Ratio	Lower	Upper
96	100		
61	165.0	138.0	207.0
98	61.4	50.0	75.0

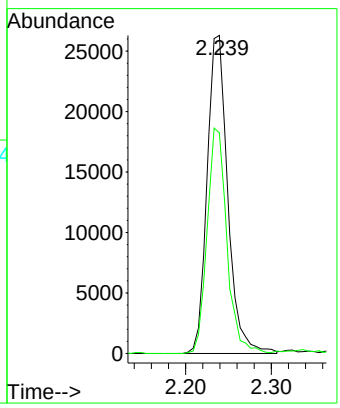




#13
Acrolein
Concen: 84.041 ug/l
RT: 2.239 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 56 Resp: 44044

Ion	Ratio	Lower	Upper
56	100		
55	67.7	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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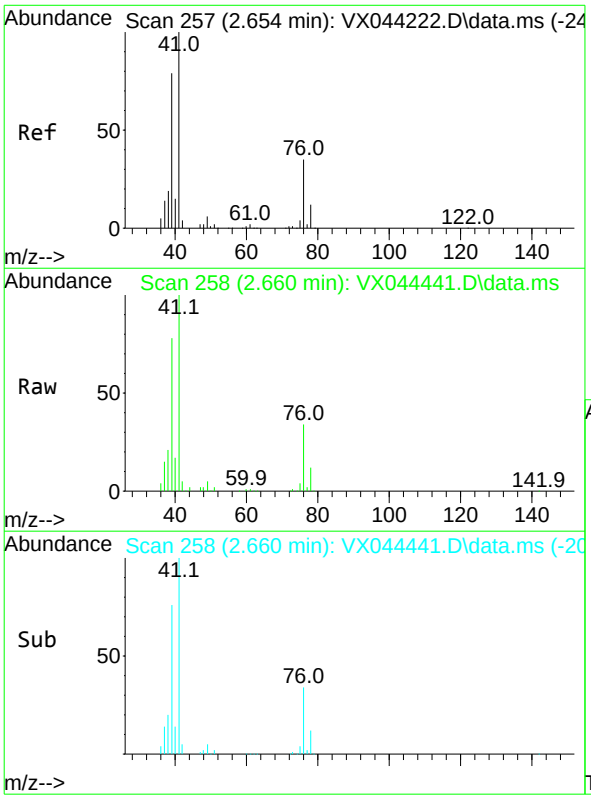
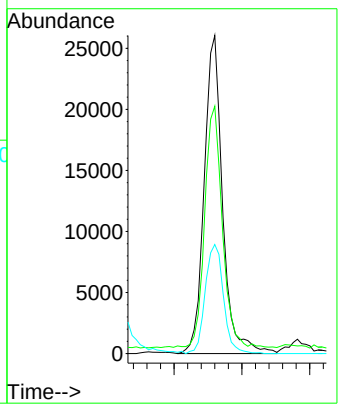
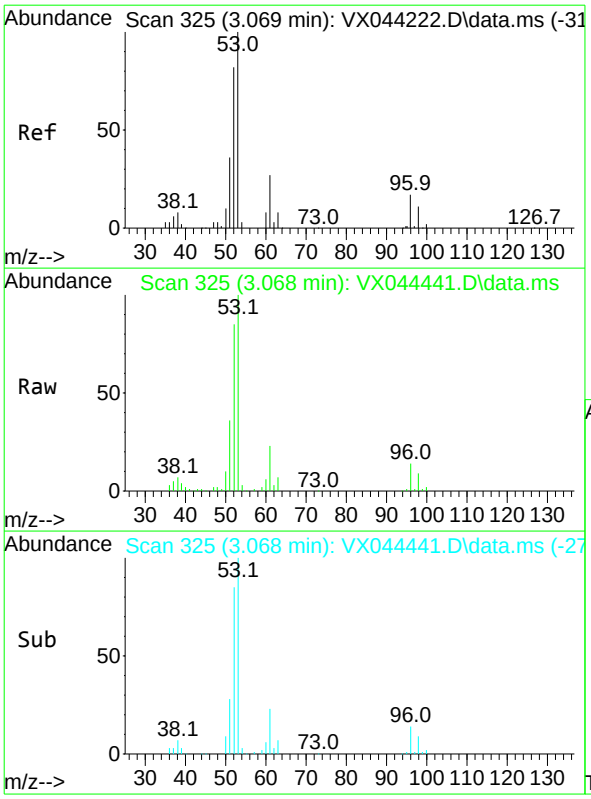


#14
Allyl chloride
Concen: 17.953 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 49108

Ion	Ratio	Lower	Upper
41	100		
39	73.3	61.9	92.9
76	33.9	27.4	41.2

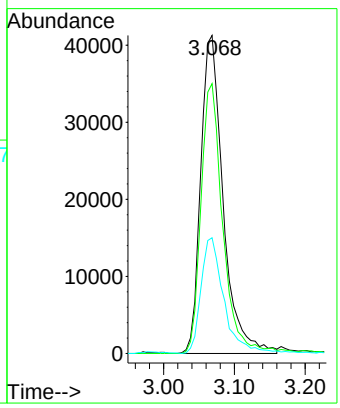




#15
Acrylonitrile
Concen: 90.610 ug/l
RT: 3.068 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 53 Resp: 90872

Ion	Ratio	Lower	Upper
53	100		
52	82.8	67.4	101.0
51	37.6	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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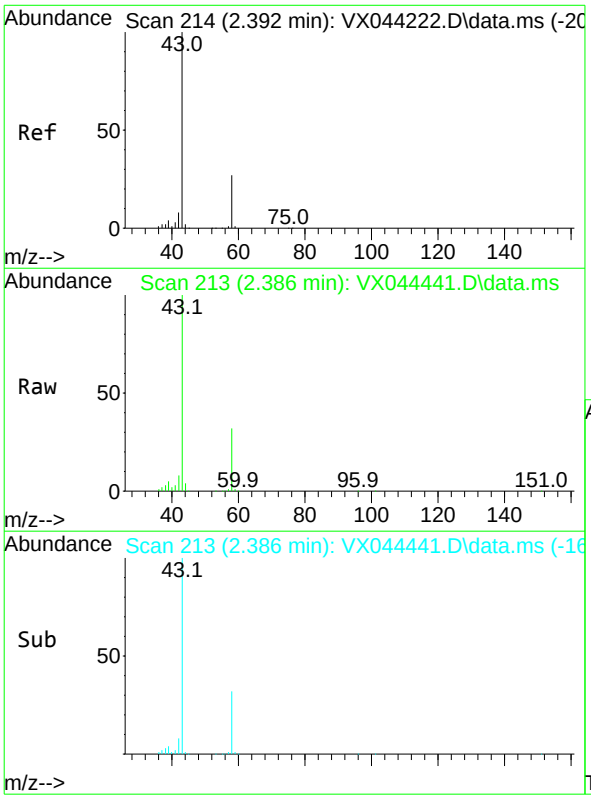
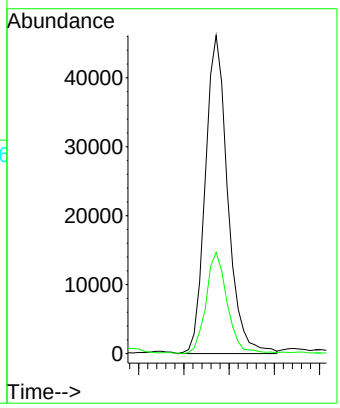
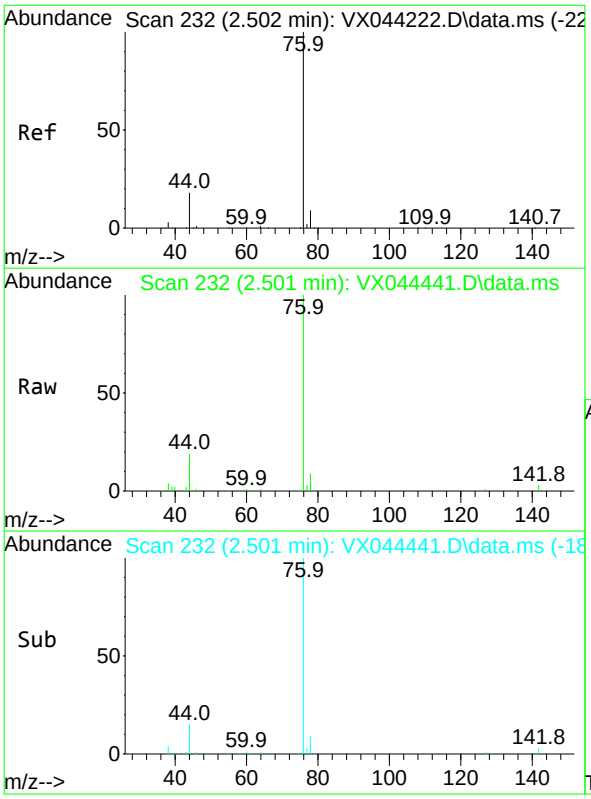


#16
Acetone
Concen: 75.745 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 79327

Ion	Ratio	Lower	Upper
43	100		
58	31.7	21.6	32.4

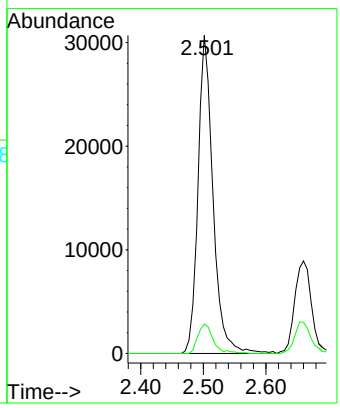




#17
Carbon Disulfide
Concen: 16.369 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 76 Resp: 51100

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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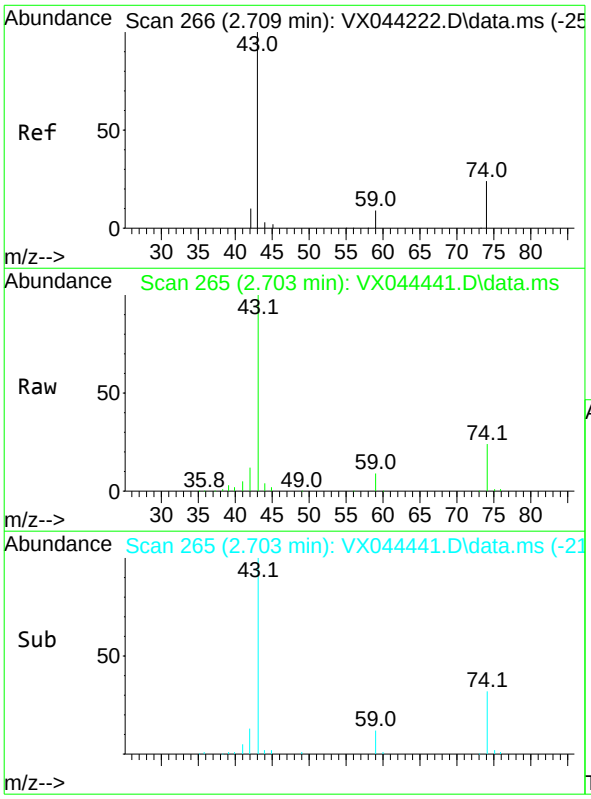
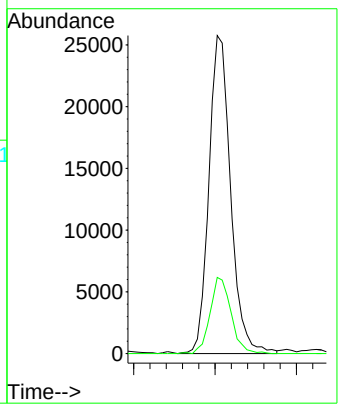
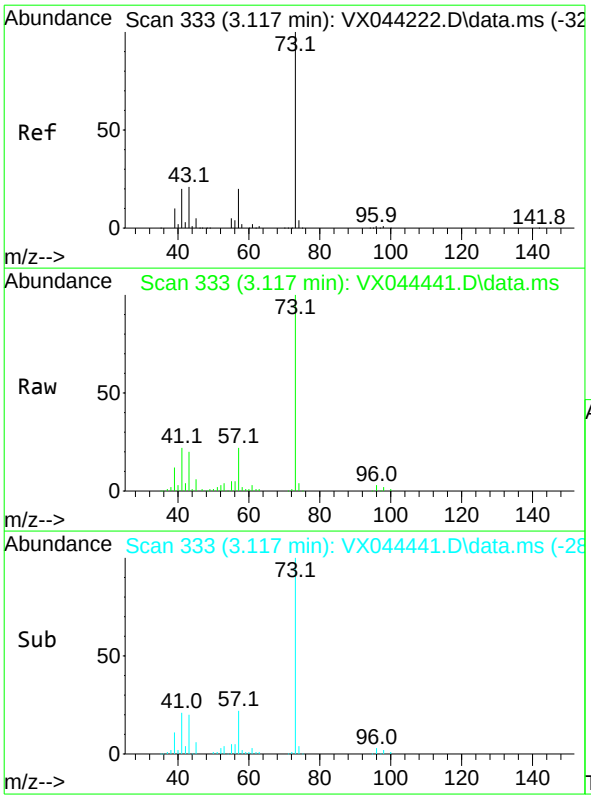


#18
Methyl Acetate
Concen: 17.713 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 47831

Ion	Ratio	Lower	Upper
43	100		
74	23.1	17.7	26.5

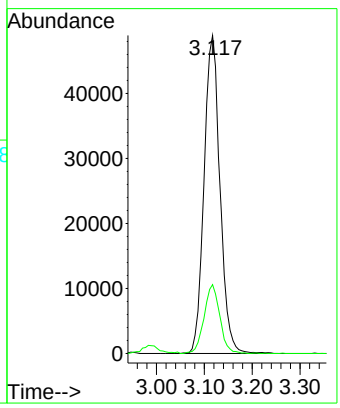




#19
Methyl tert-butyl Ether
Concen: 17.629 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 73 Resp: 112975

Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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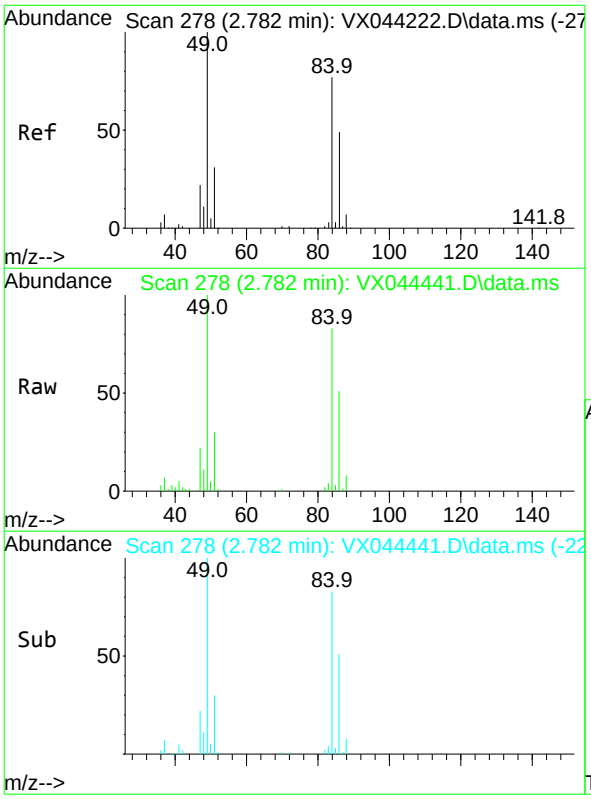
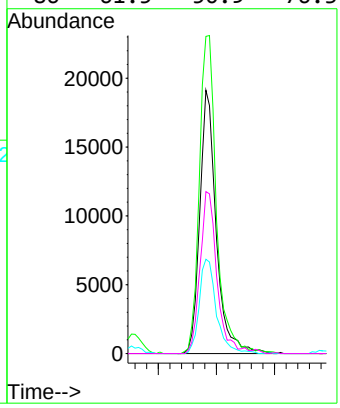
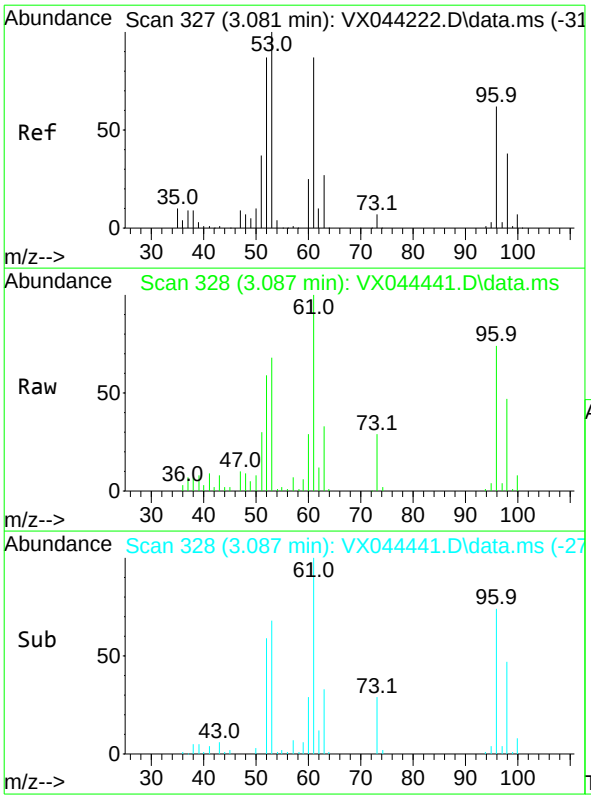


#20
Methylene Chloride
Concen: 19.142 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 84 Resp: 37654

Ion	Ratio	Lower	Upper
84	100		
49	120.5	104.2	156.4
51	35.8	32.2	48.4
86	61.5	50.9	76.3

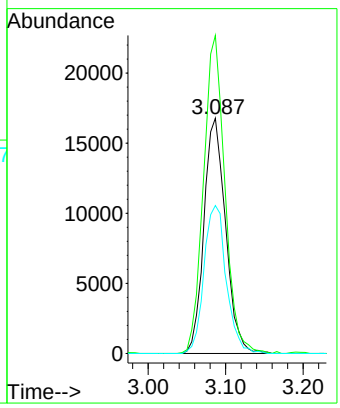




#21
trans-1,2-Dichloroethene
Concen: 18.688 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 32618

Ion	Ratio	Lower	Upper
96	100		
61	135.2	112.0	168.0
98	62.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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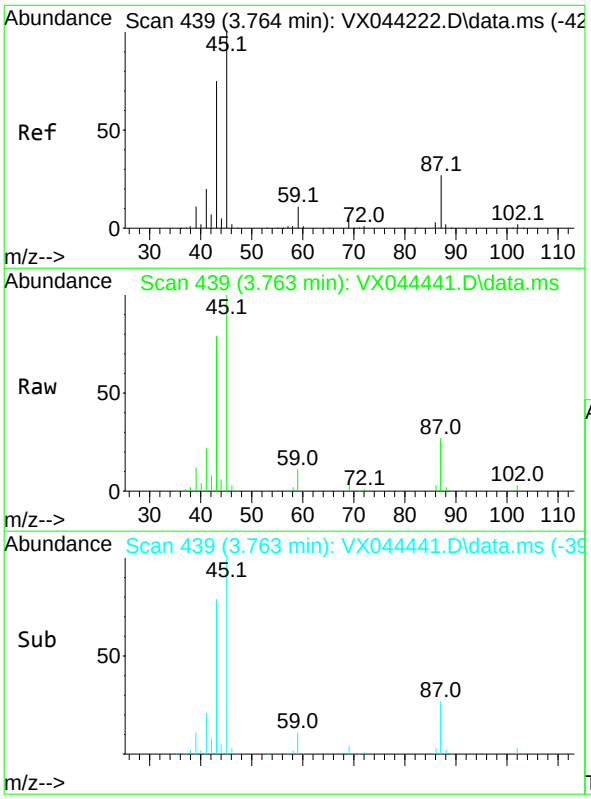
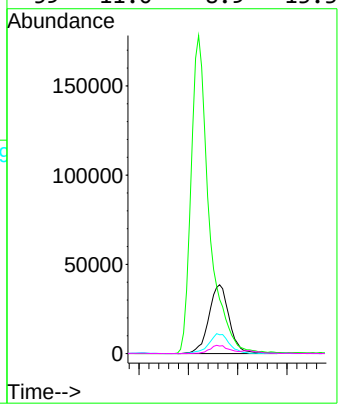
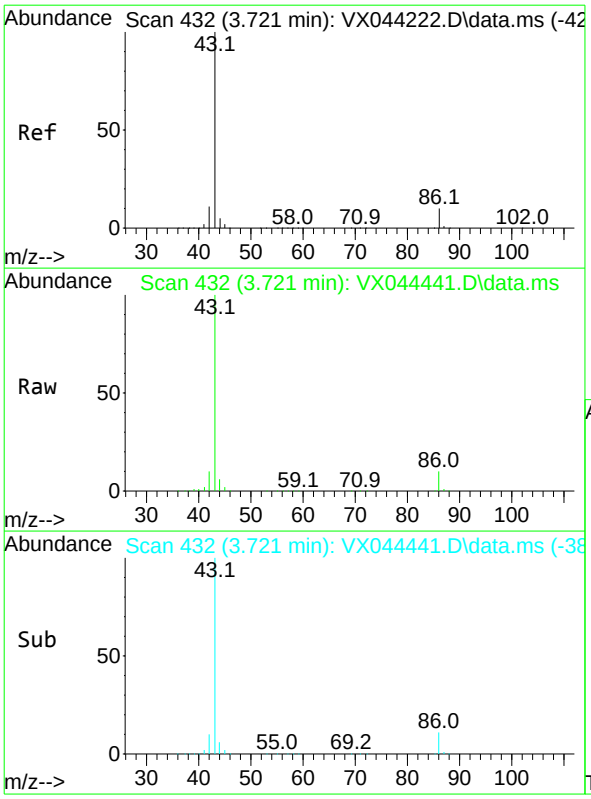


#22
Diisopropyl ether
Concen: 17.968 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 45 Resp: 110674

Ion	Ratio	Lower	Upper
45	100		
43	77.9	60.2	90.2
87	27.4	21.2	31.8
59	11.0	8.9	13.3





#23
Vinyl Acetate
Concen: 91.069 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 456052

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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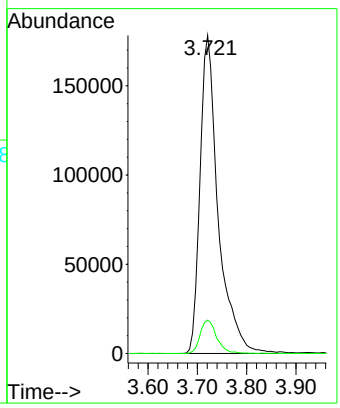
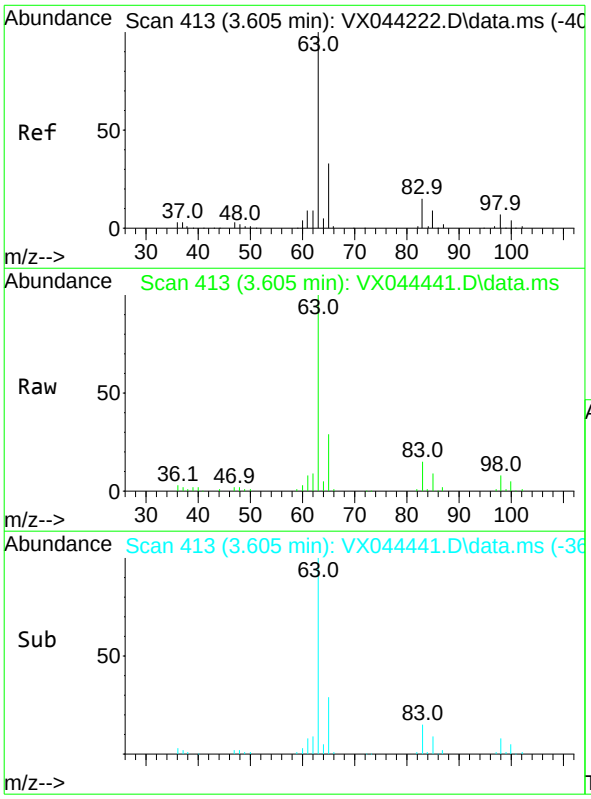
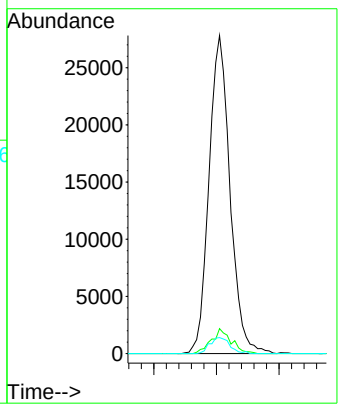


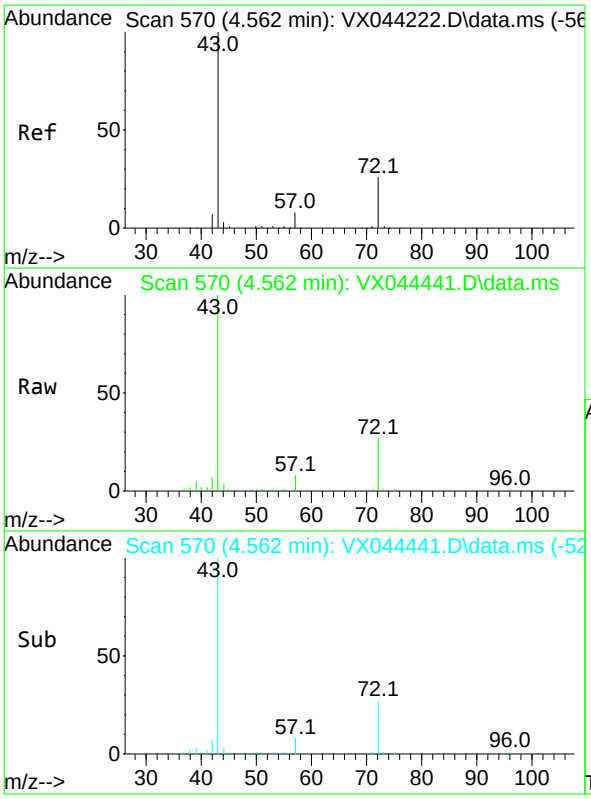


#24
1,1-Dichloroethane
Concen: 18.923 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 64973

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.6	10.8
100	5.0	2.1	6.3

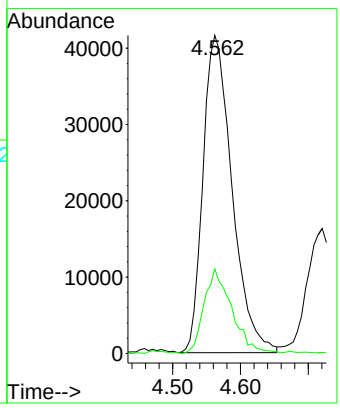




#25
2-Butanone
Concen: 83.289 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 124008

Ion	Ratio	Lower	Upper
43	100		
72	26.3	20.2	30.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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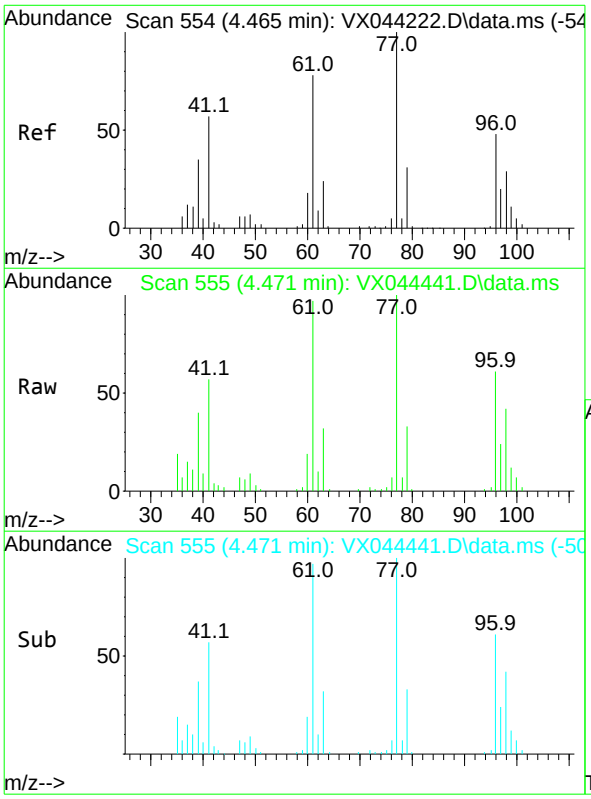
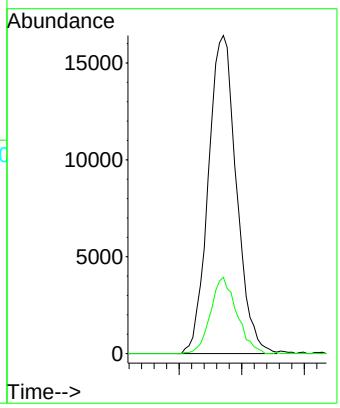
Supervised By :Mahesh Dadoda 12/24/2024

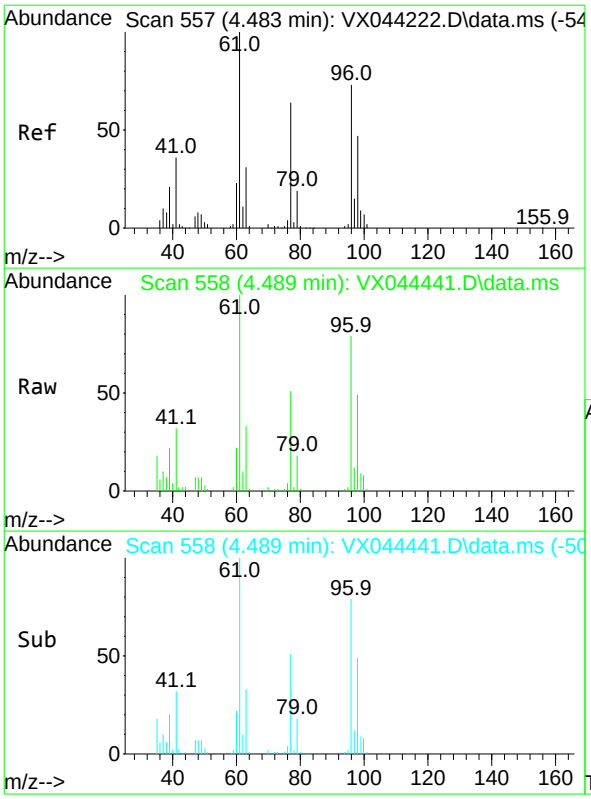


#26
2,2-Dichloropropane
Concen: 18.380 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 77 Resp: 51269

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.7	32.1

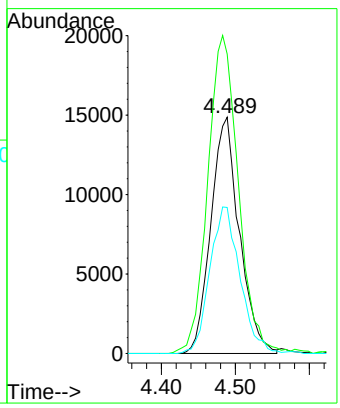




#27
cis-1,2-Dichloroethene
Concen: 17.974 ug/l
RT: 4.489 min Scan# 55
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 39842

Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	299.0
98	65.7	0.0	129.0



Instrument :
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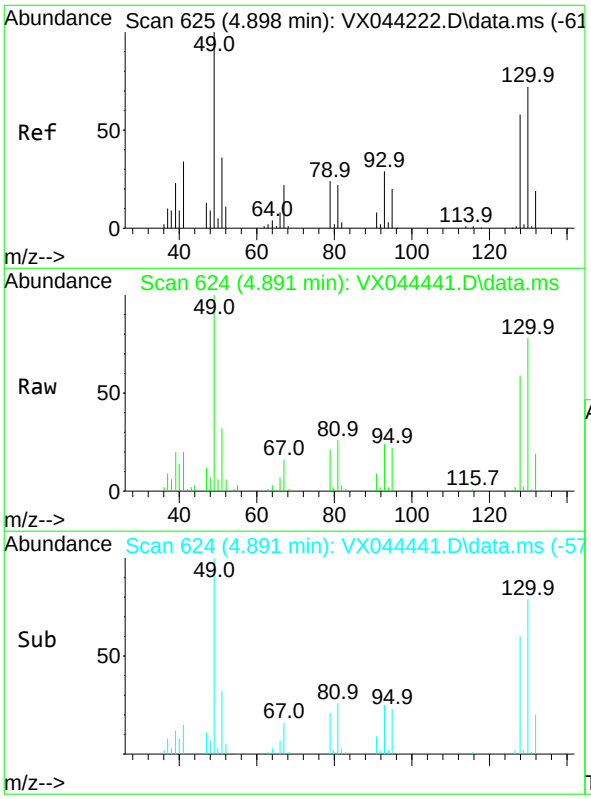
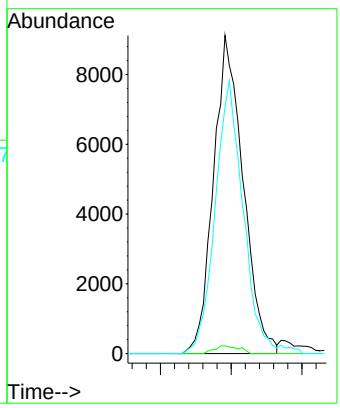
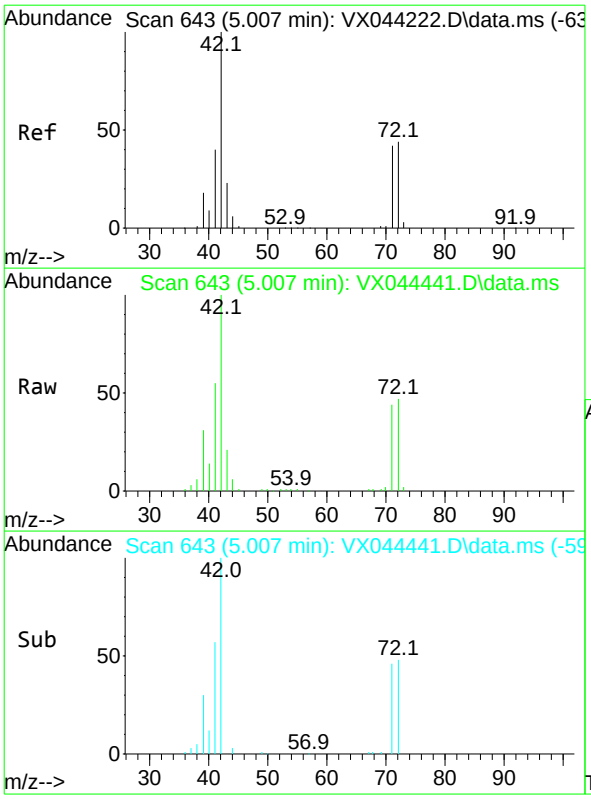


#28
Bromochloromethane
Concen: 15.760 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 49 Resp: 26535

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	80.3	62.1	93.1

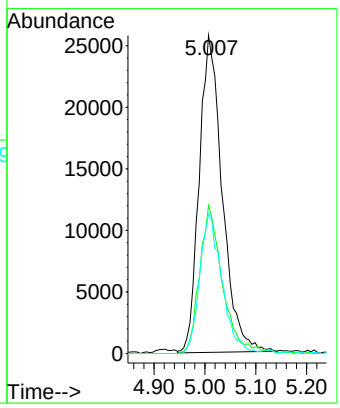




#29
Tetrahydrofuran
Concen: 84.947 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 42 Resp: 81181

Ion	Ratio	Lower	Upper
42	100		
72	45.9	37.0	55.6
71	42.5	33.6	50.4



Instrument :
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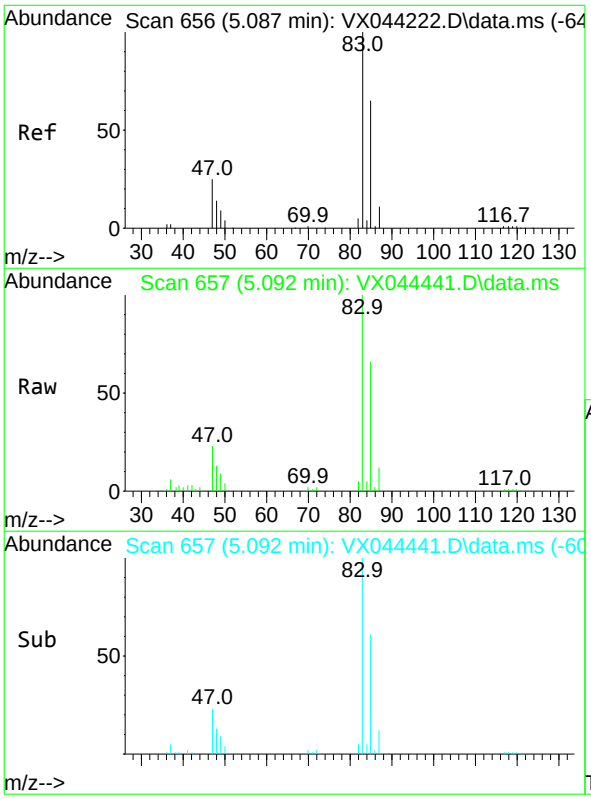
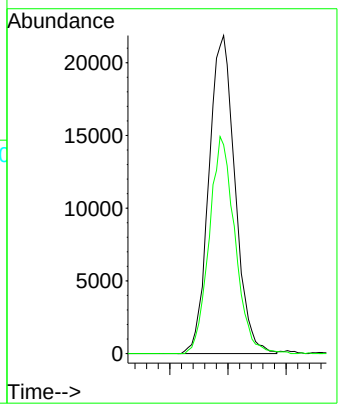
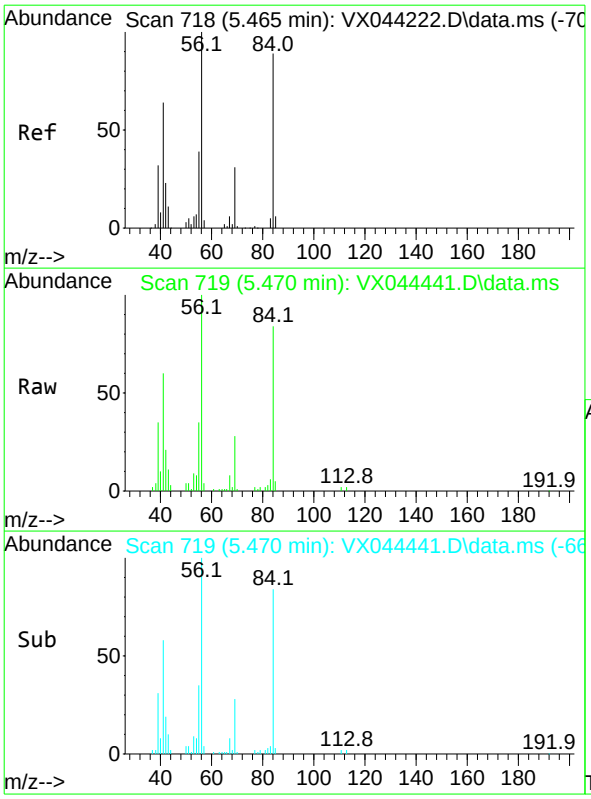


#30
Chloroform
Concen: 17.686 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 68227

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.6	77.4

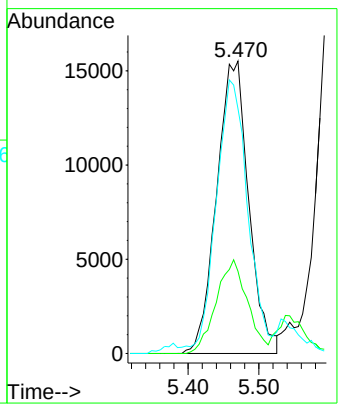




#31
Cyclohexane
Concen: 17.628 ug/l
RT: 5.470 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 56 Resp: 48875

Ion	Ratio	Lower	Upper
56	100		
69	28.1	24.7	37.1
84	81.7	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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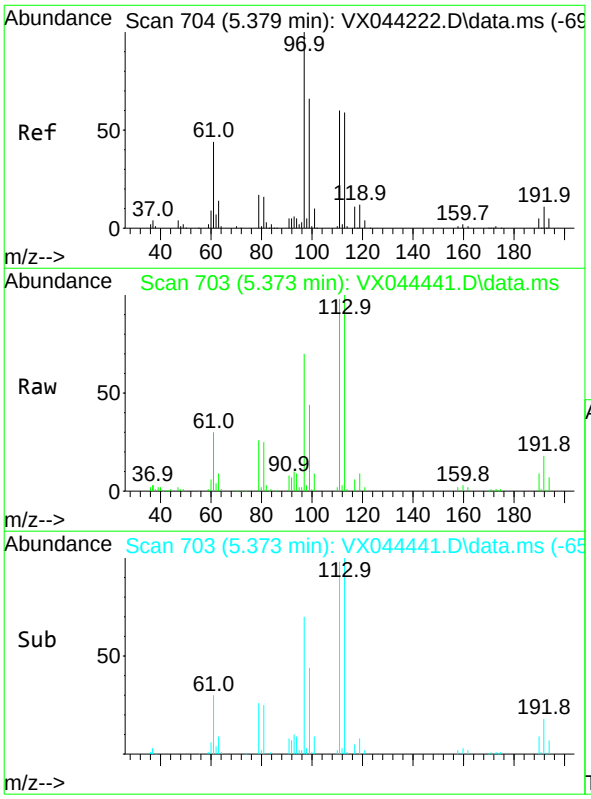
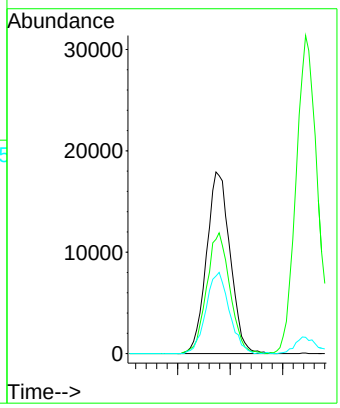
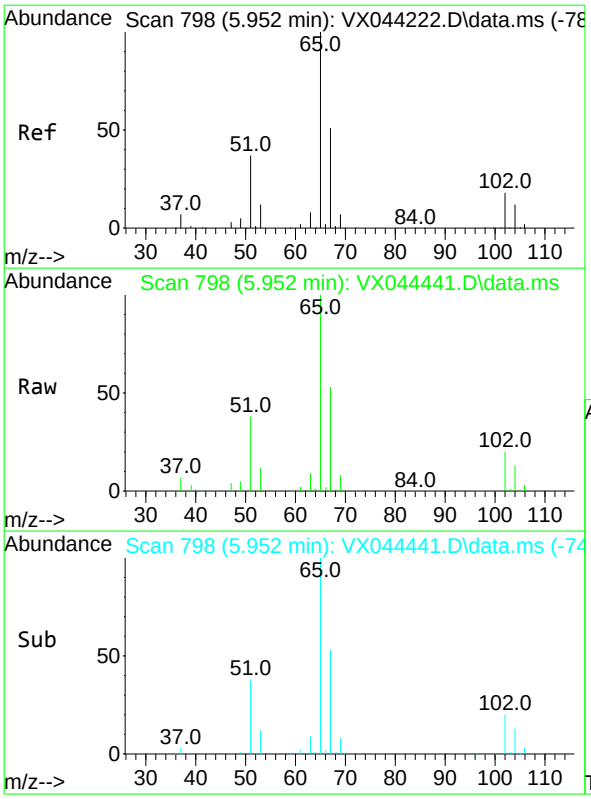


#32
1,1,1-Trichloroethane
Concen: 17.459 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 97 Resp: 55907

Ion	Ratio	Lower	Upper
97	100		
99	65.6	50.8	76.2
61	44.3	35.2	52.8

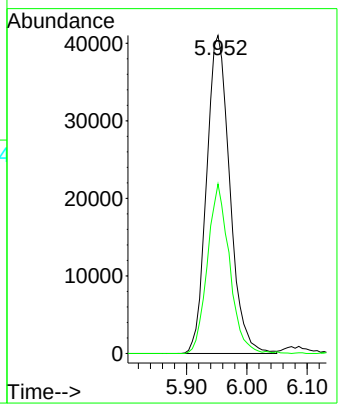




#33
1,2-Dichloroethane-d4
Concen: 42.700 ug/l
RT: 5.952 min Scan# 79
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 65 Resp: 109691

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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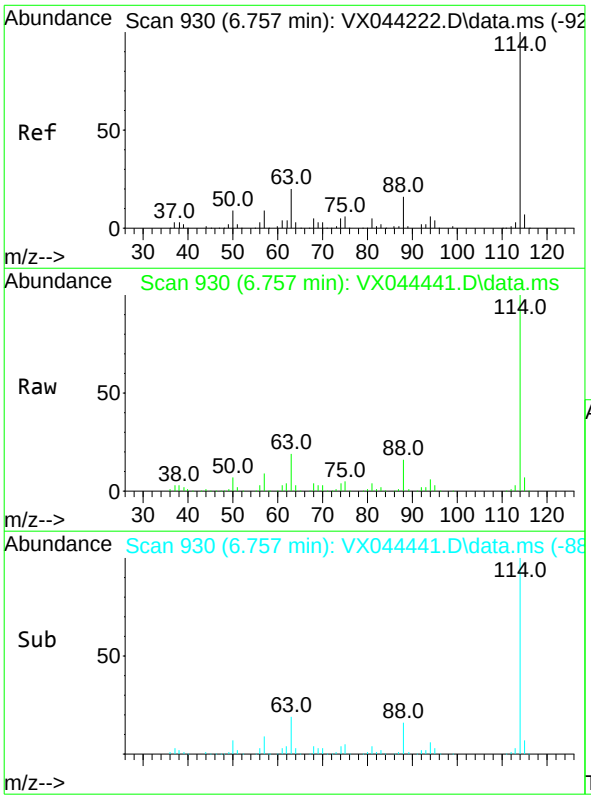
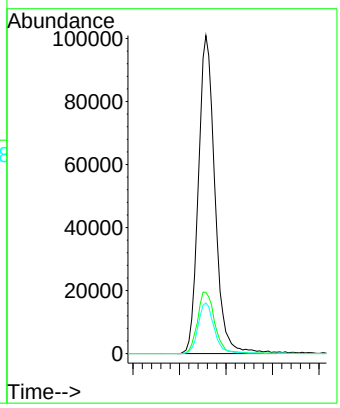
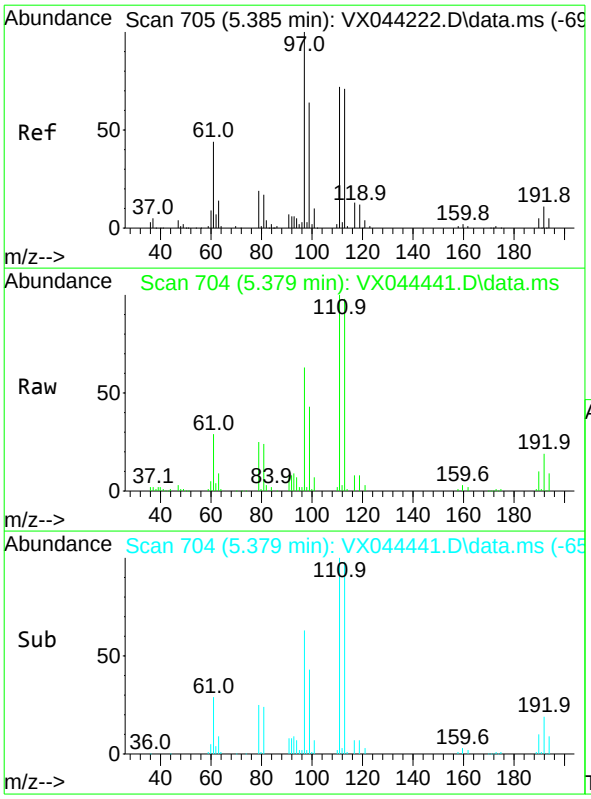


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:114 Resp: 249173

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	40.6
88	15.9	0.0	31.8

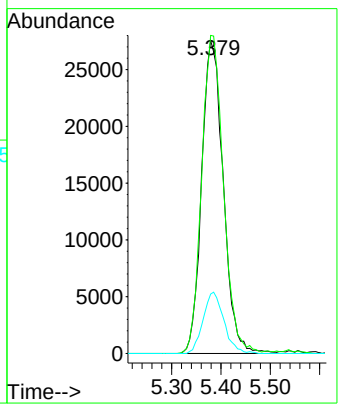




#35
Dibromofluoromethane
Concen: 48.541 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:113 Resp: 83769

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	18.9	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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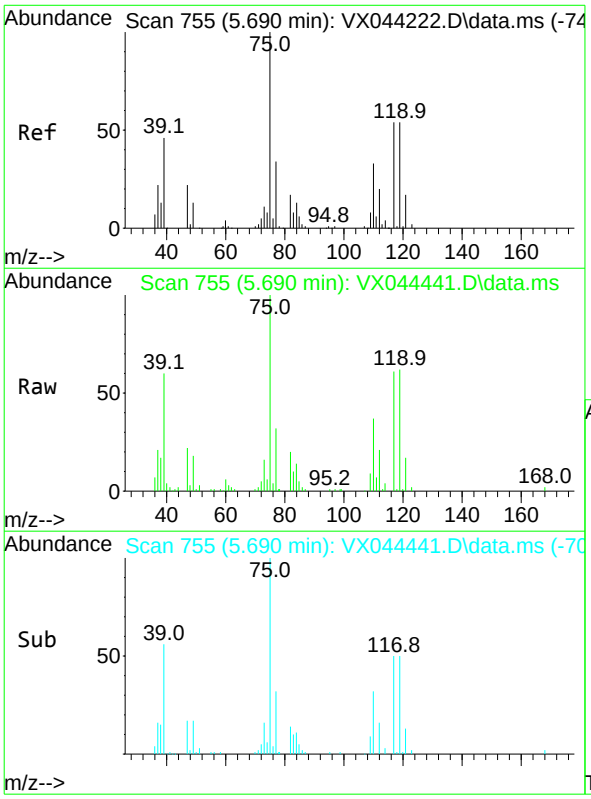
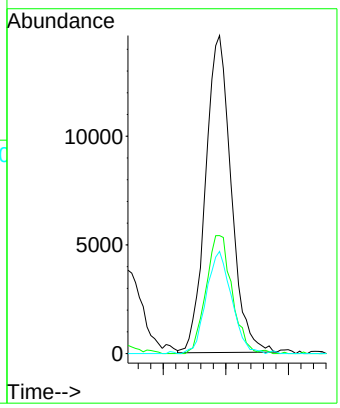
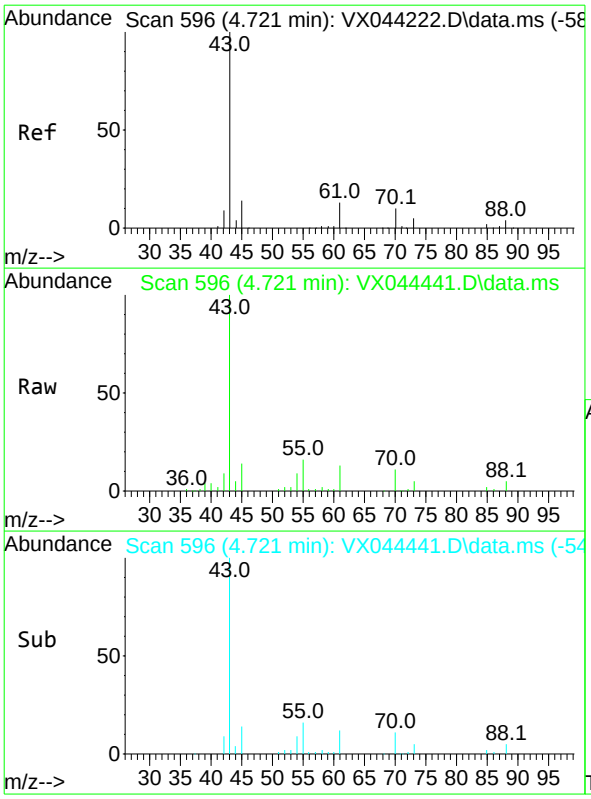


#36
1,1-Dichloropropene
Concen: 18.566 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 41416

Ion	Ratio	Lower	Upper
75	100		
110	37.6	17.3	51.7
77	31.9	25.4	38.0

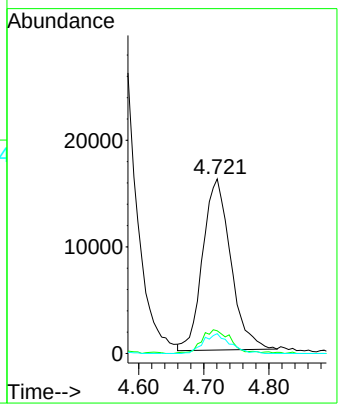




#37
Ethyl Acetate
Concen: 17.412 ug/l
RT: 4.721 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 48014

Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.8	14.8
70	11.0	7.7	11.5



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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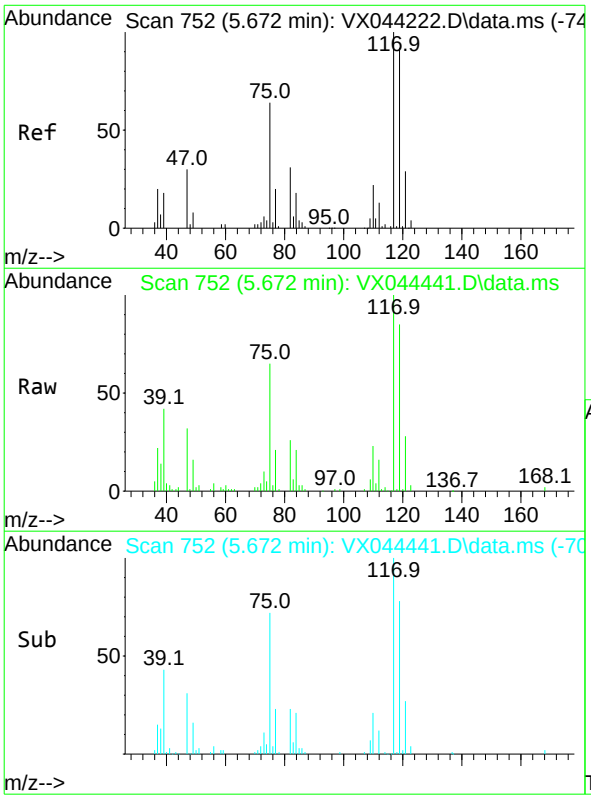
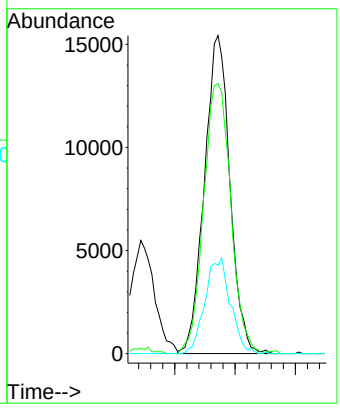
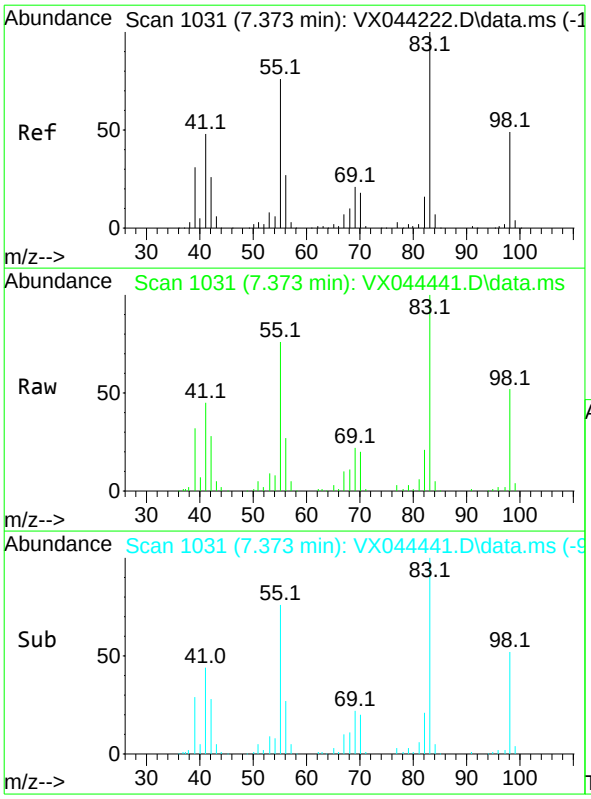


#38
Carbon Tetrachloride
Concen: 18.898 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 45386

Ion	Ratio	Lower	Upper
117	100		
119	84.9	74.2	111.4
121	27.7	23.0	34.6

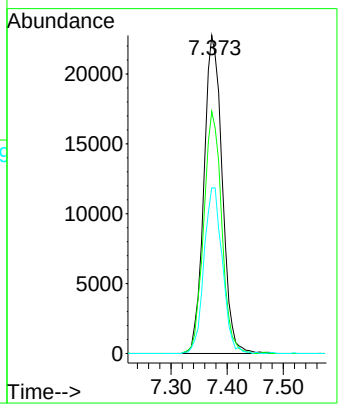




#39
Methylcyclohexane
Concen: 19.332 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 51554

Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.7	91.1
98	52.1	38.9	58.3



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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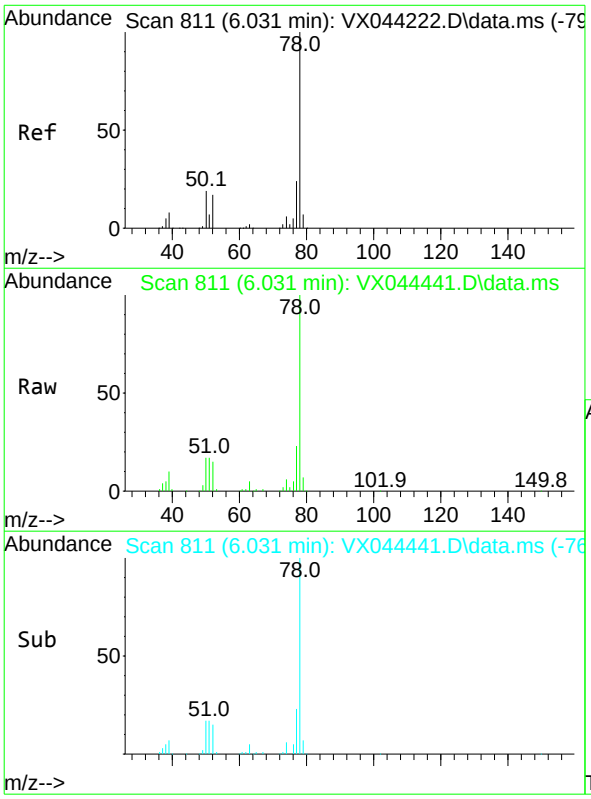
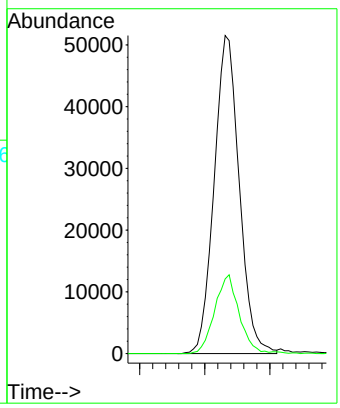
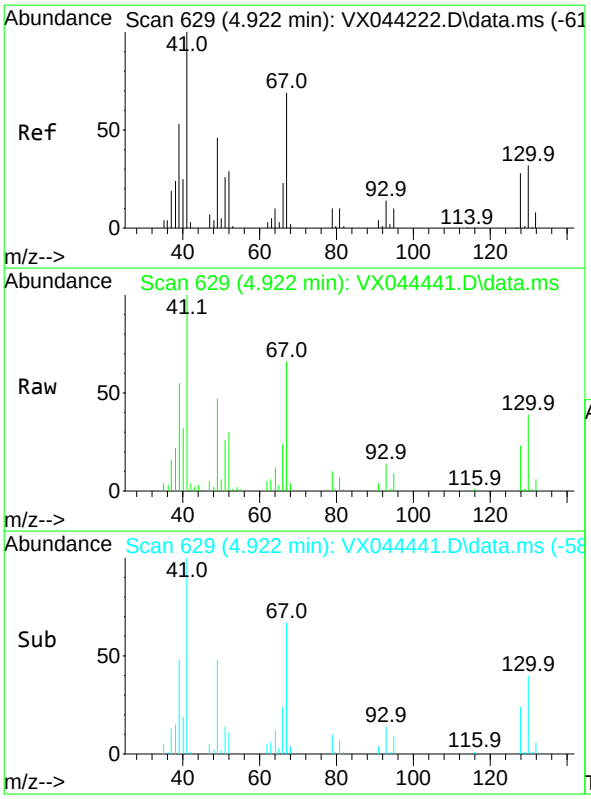


#40
Benzene
Concen: 20.358 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 78 Resp: 137885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9

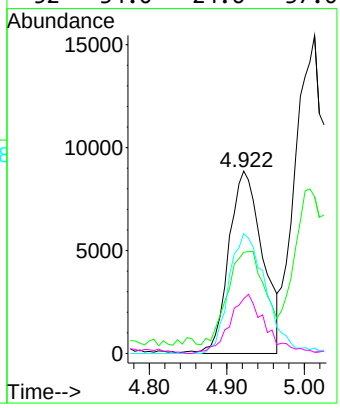




#41
Methacrylonitrile
Concen: 18.343 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 26859

Ion	Ratio	Lower	Upper
41	100		
39	56.0	44.2	66.4
67	72.8	57.2	85.8
52	34.0	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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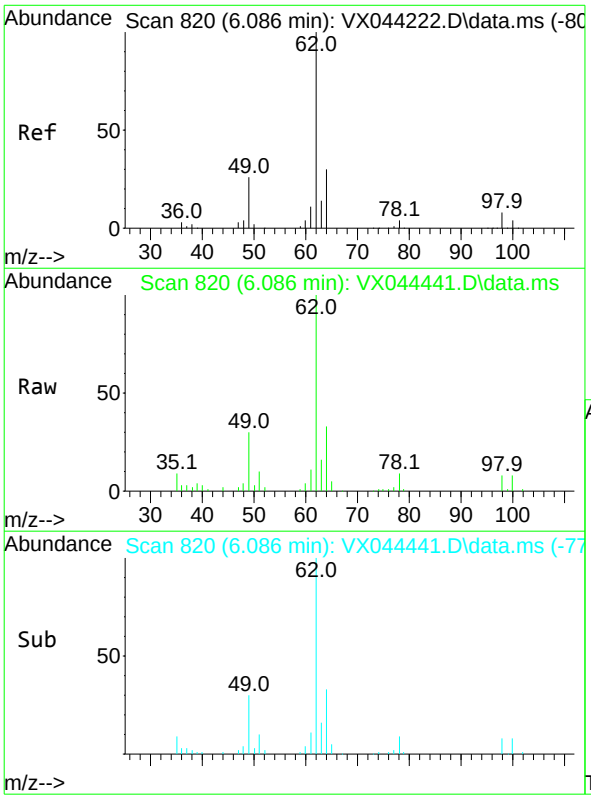
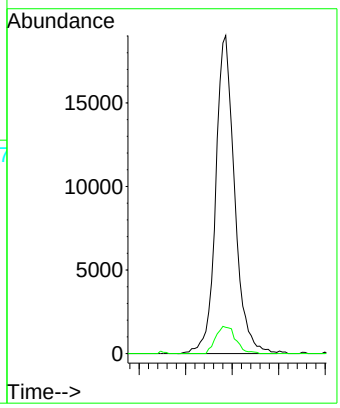
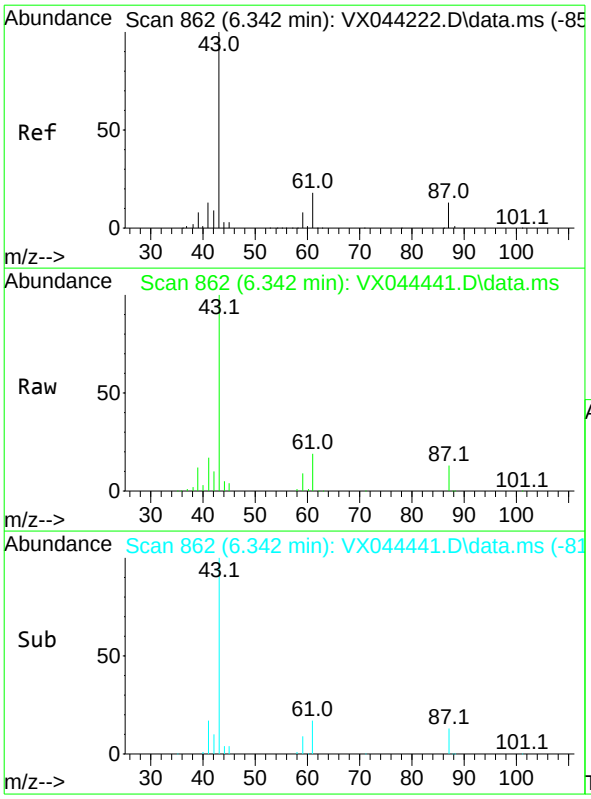


#42
1,2-Dichloroethane
Concen: 19.207 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 53588

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8

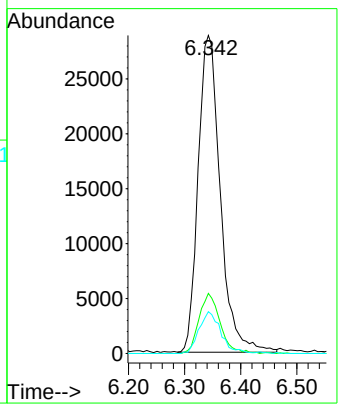




#43
Isopropyl Acetate
Concen: 18.378 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 79207

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.2	21.2
87	12.9	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
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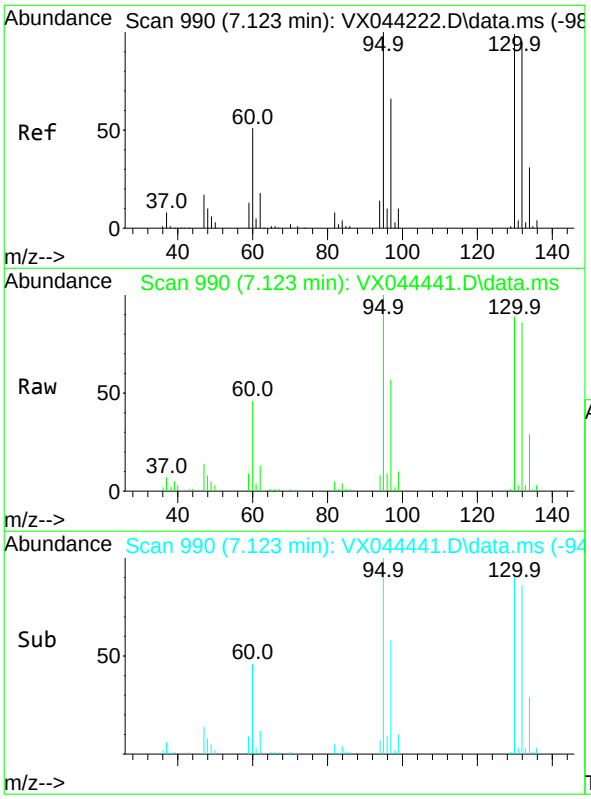
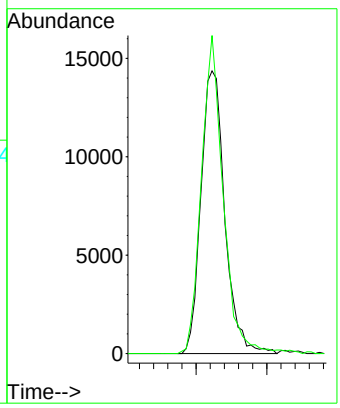
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

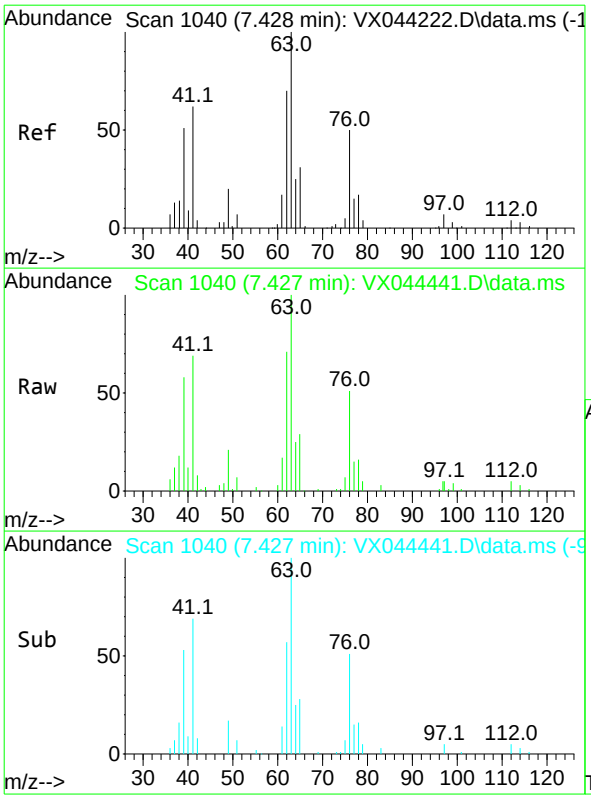


#44
Trichloroethene
Concen: 19.902 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:130 Resp: 33615

Ion	Ratio	Lower	Upper
130	100		
95	112.5	0.0	201.4

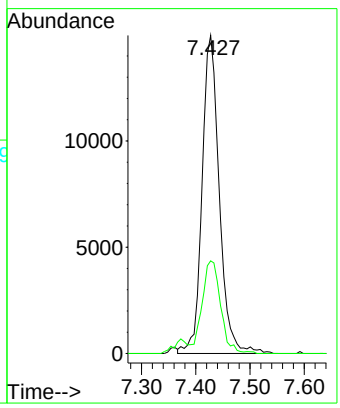




#45
1,2-Dichloropropane
Concen: 19.077 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 33011

Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.6	37.0



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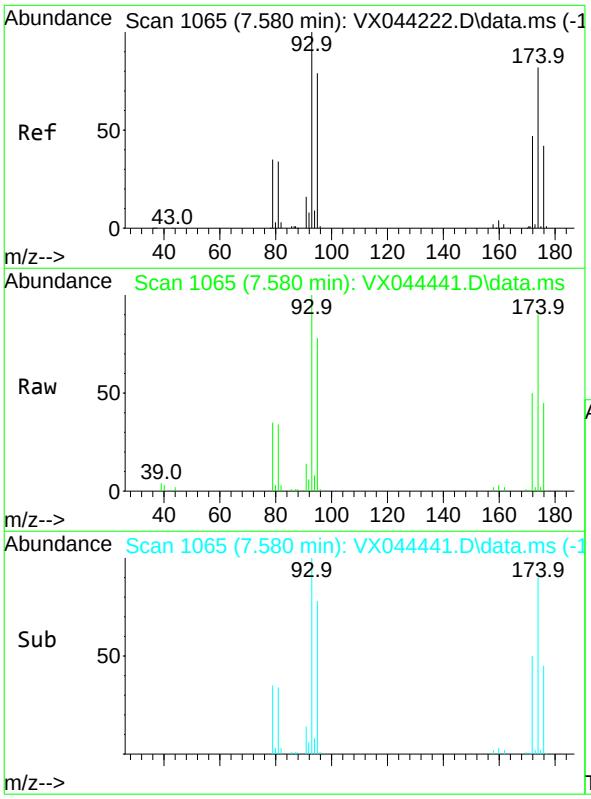
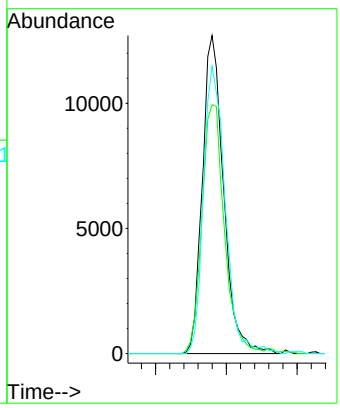
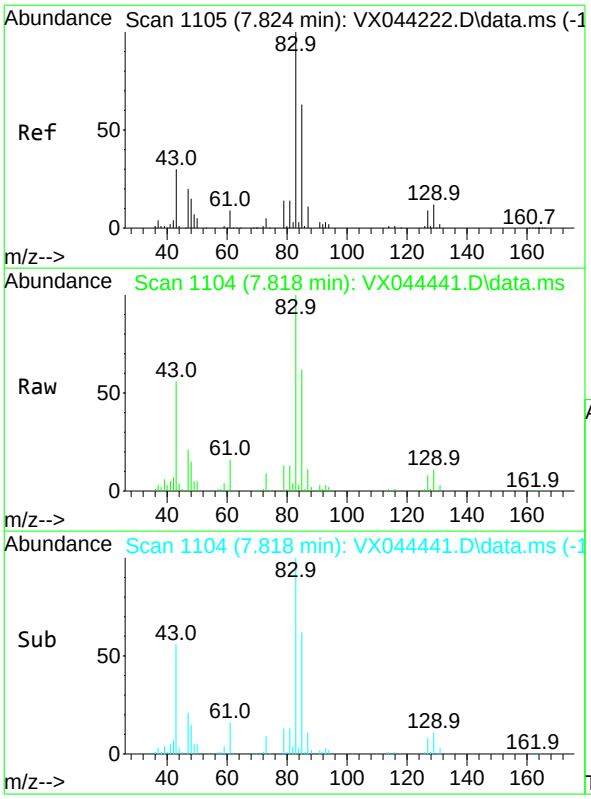


#46
Dibromomethane
Concen: 19.737 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 93 Resp: 26495

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.4	98.2
174	92.4	67.9	101.9

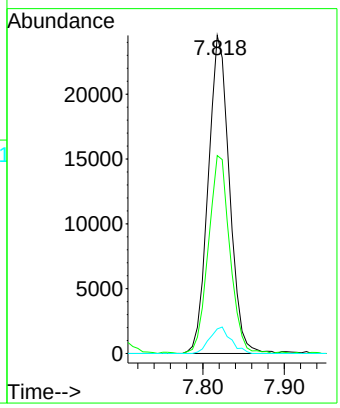




#47
Bromodichloromethane
Concen: 19.132 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 44357

Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.6	75.8
127	7.7	7.3	10.9



Instrument :
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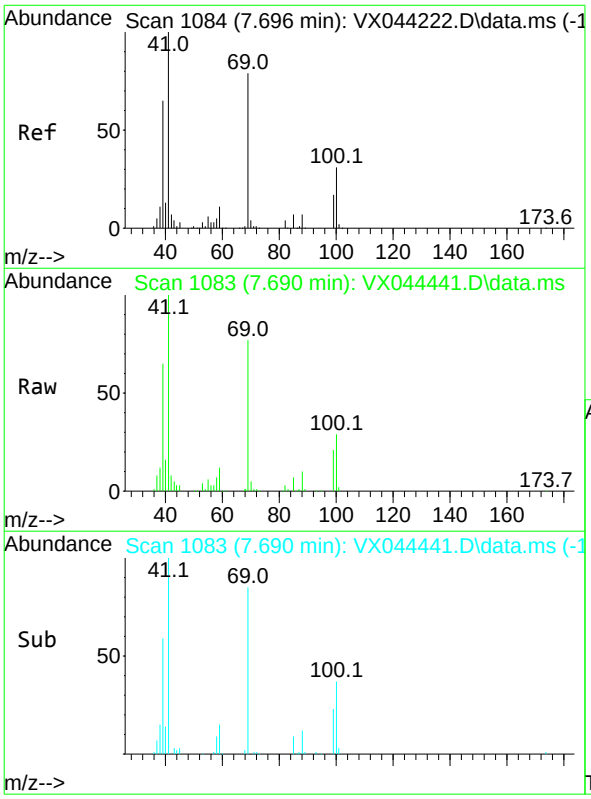
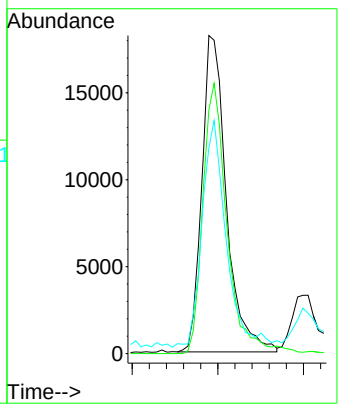
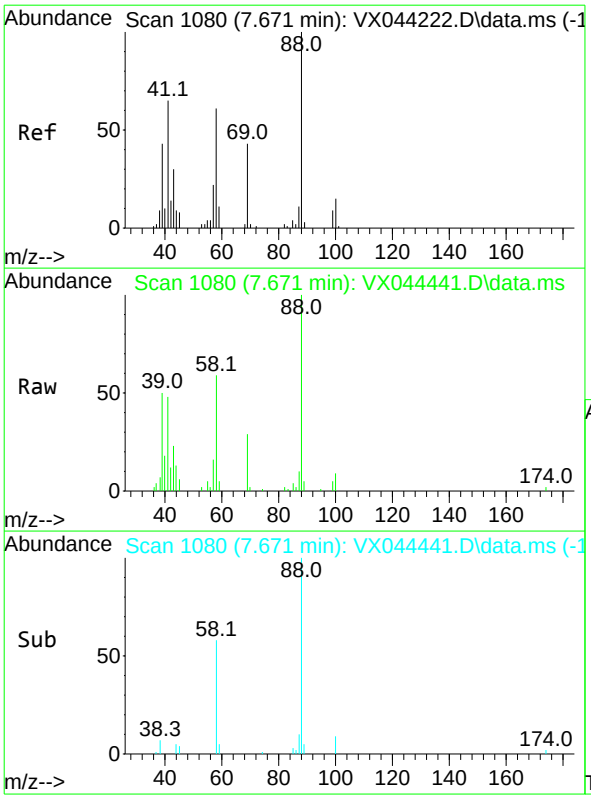


#48
Methyl methacrylate
Concen: 17.281 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 36154

Ion	Ratio	Lower	Upper
41	100		
69	84.8	62.4	93.6
39	70.2	53.3	79.9

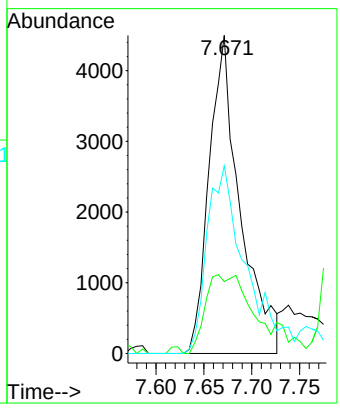




#49
1,4-Dioxane
Concen: 292.846 ug/l
RT: 7.671 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 88 Resp: 10158

Ion	Ratio	Lower	Upper
88	100		
43	36.0	27.1	40.7
58	73.5	41.0	61.4#



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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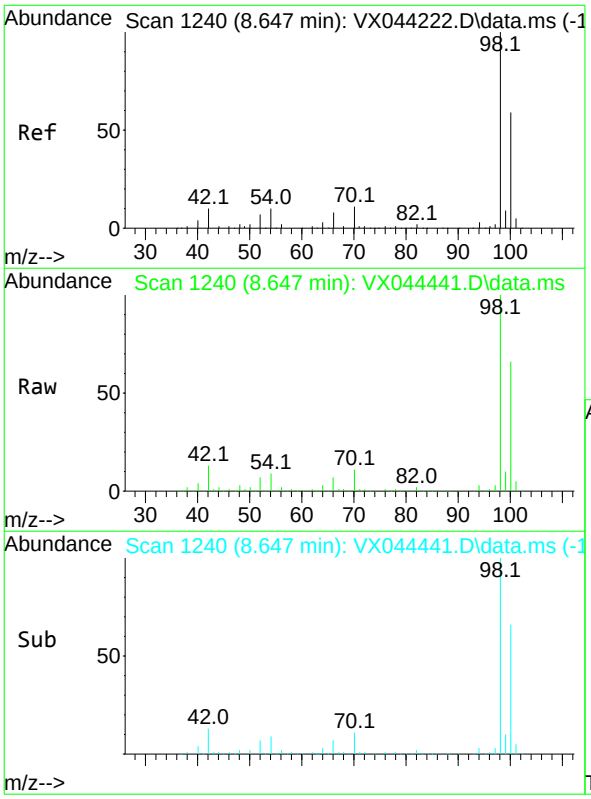
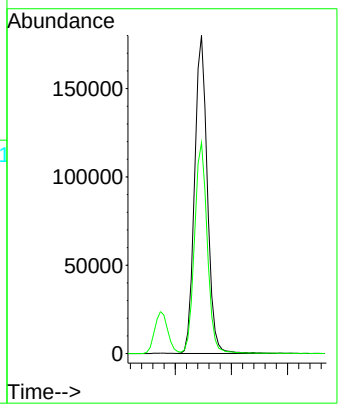
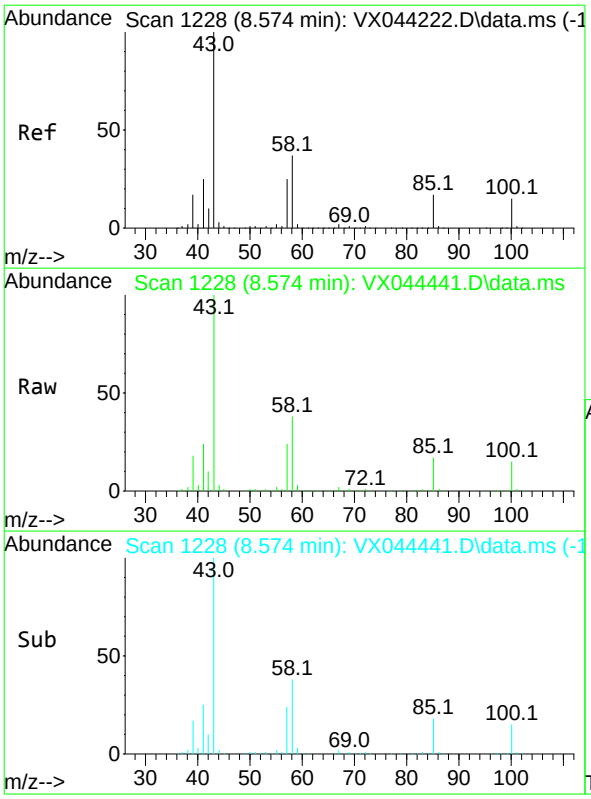


#50
Toluene-d8
Concen: 48.669 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 98 Resp: 283358

Ion	Ratio	Lower	Upper
98	100		
100	66.4	51.5	77.3

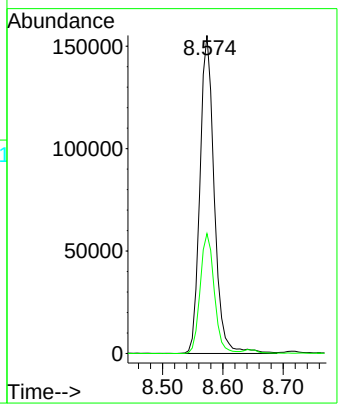




#51
4-Methyl-2-Pentanone
Concen: 92.373 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 255984

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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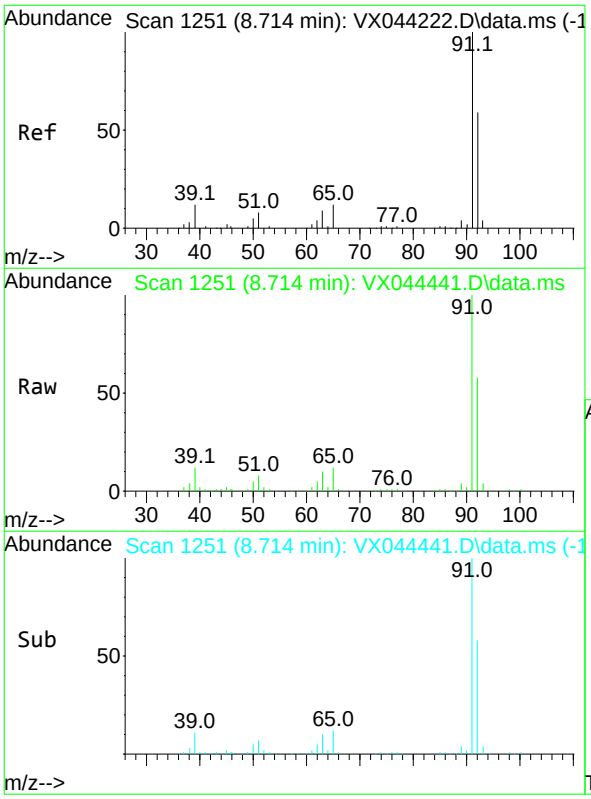
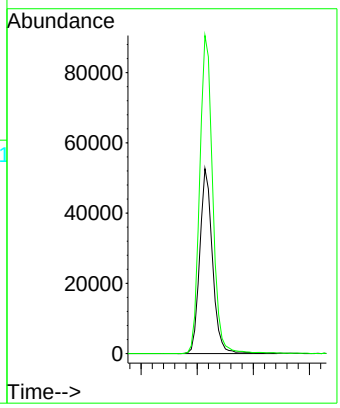
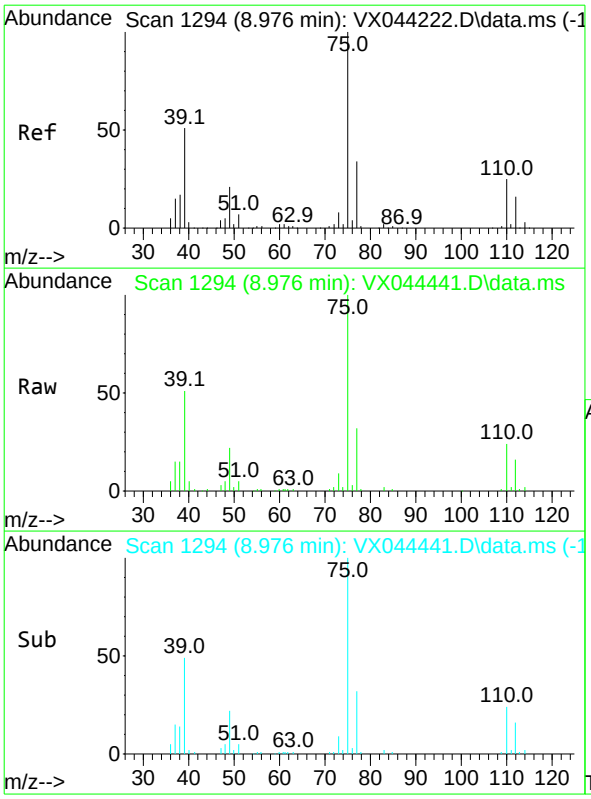


#52
Toluene
Concen: 19.504 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 92 Resp: 82957

Ion	Ratio	Lower	Upper
92	100		
91	175.4	137.0	205.6

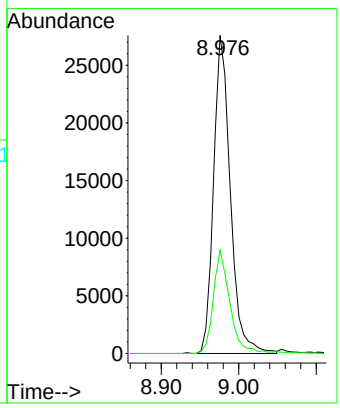




#53
t-1,3-Dichloropropene
Concen: 17.860 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 41417

Ion	Ratio	Lower	Upper
75	100		
77	32.4	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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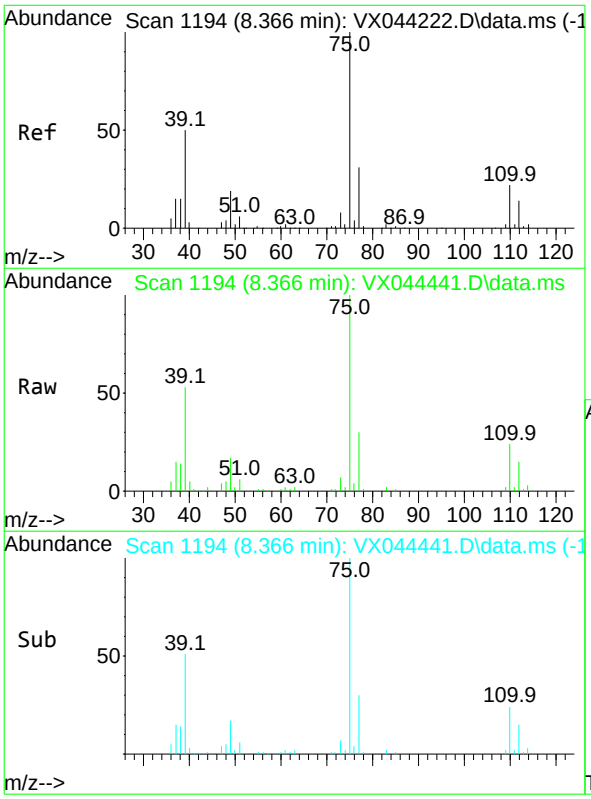
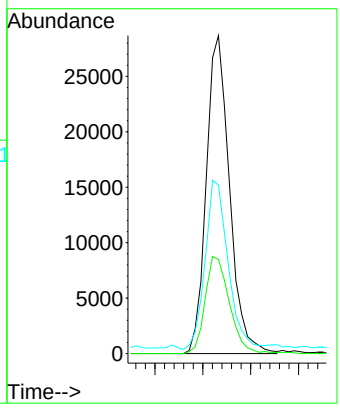
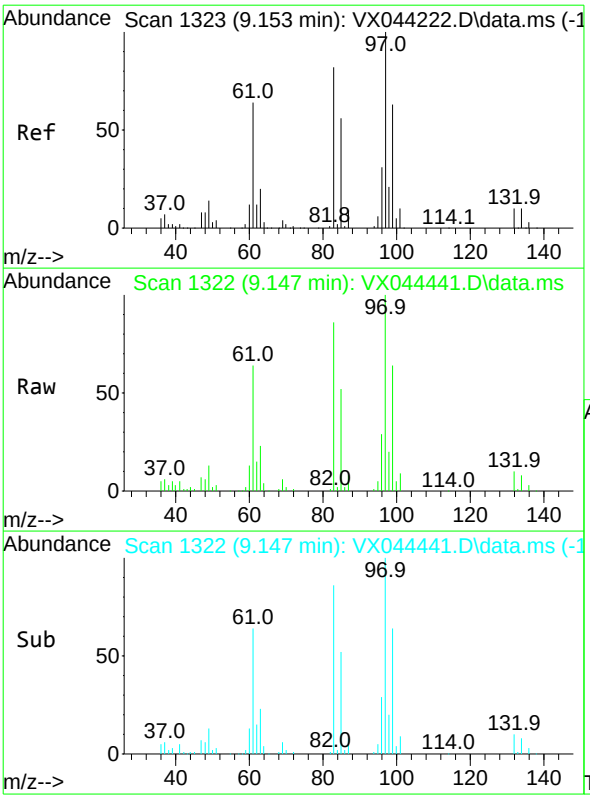


#54
cis-1,3-Dichloropropene
Concen: 19.157 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 48359

Ion	Ratio	Lower	Upper
75	100		
77	29.6	24.7	37.1
39	51.1	40.3	60.5

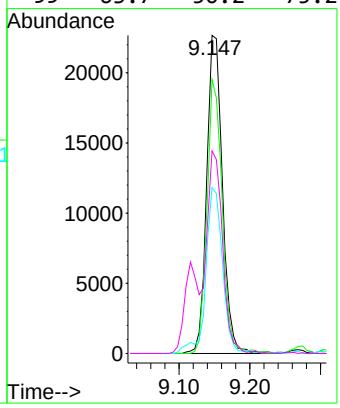




#55
1,1,2-Trichloroethane
Concen: 20.801 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 97 Resp: 35148

Ion	Ratio	Lower	Upper
97	100		
83	86.1	65.3	97.9
85	51.7	44.6	67.0
99	63.7	50.2	75.2



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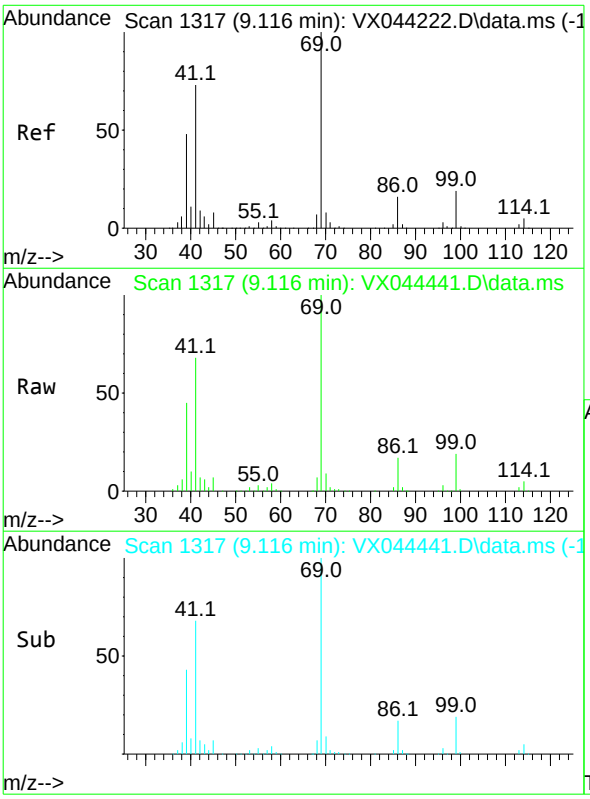
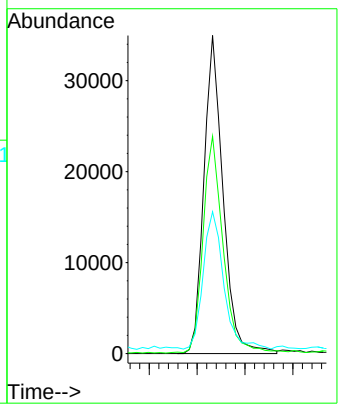
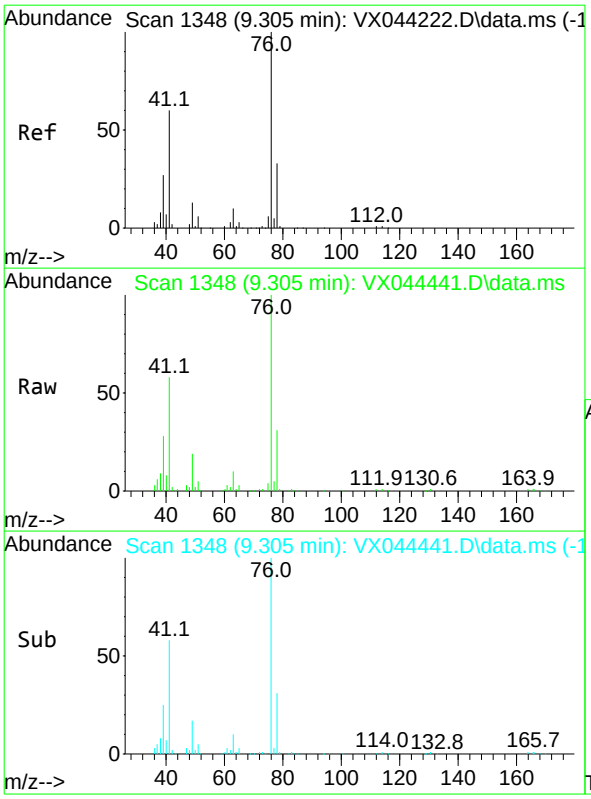


#56
Ethyl methacrylate
Concen: 18.235 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 69 Resp: 48642

Ion	Ratio	Lower	Upper
69	100		
41	71.0	56.6	85.0
39	46.3	37.4	56.0

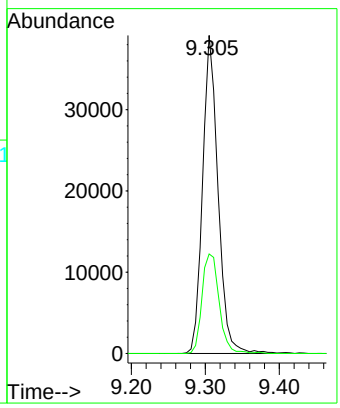




#57
1,3-Dichloropropane
Concen: 19.260 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 76 Resp: 56644

Ion	Ratio	Lower	Upper
76	100		
78	34.8	26.5	39.7



Instrument :
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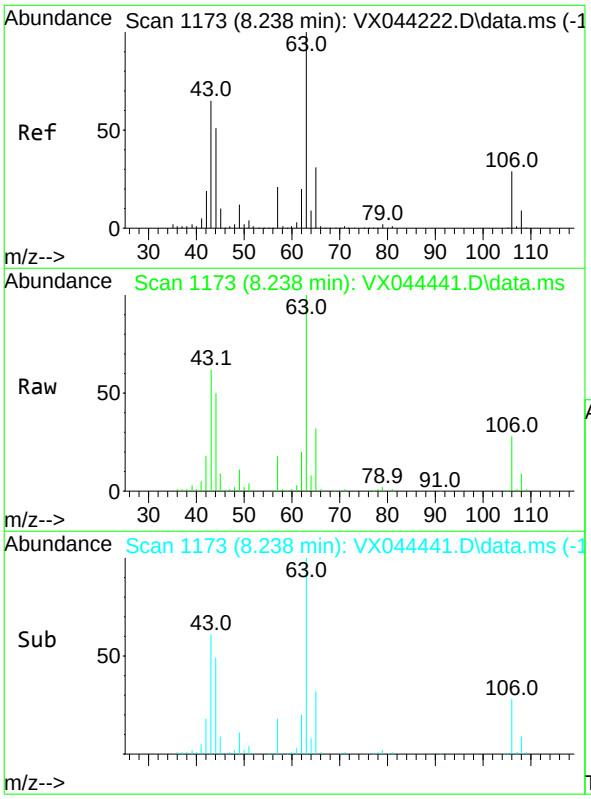
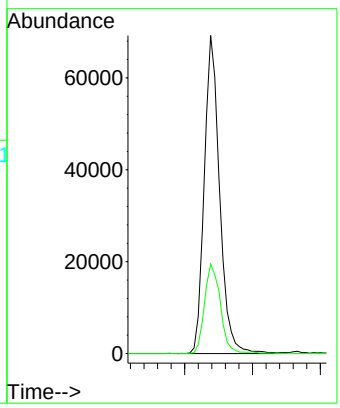
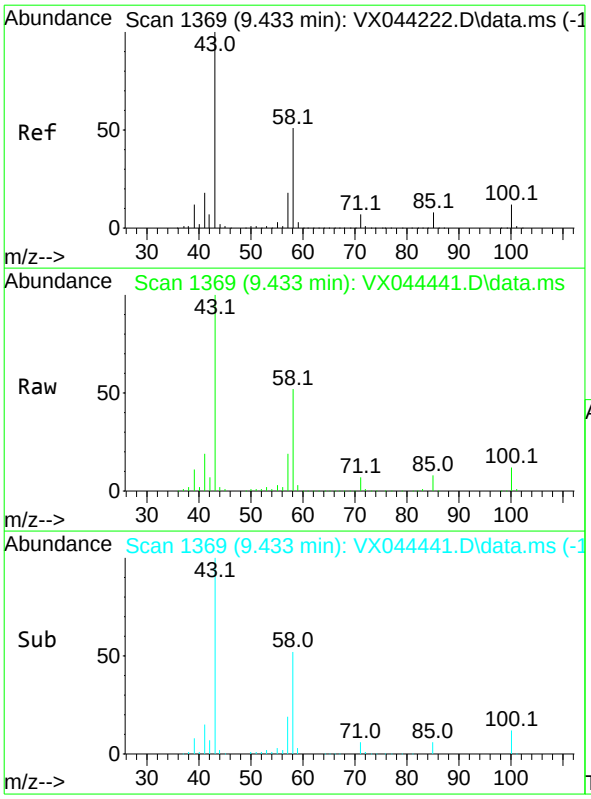


#58
2-Chloroethyl Vinyl ether
Concen: 81.033 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 109022

Ion	Ratio	Lower	Upper
63	100		
106	29.3	22.8	34.2

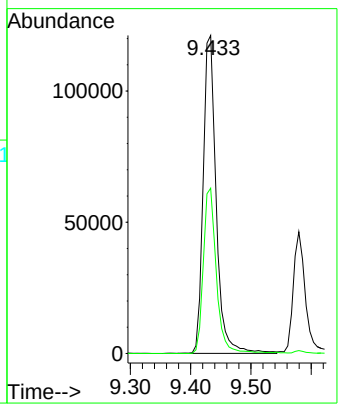




#59
2-Hexanone
Concen: 90.356 ug/l
RT: 9.433 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 181241

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.7	77.0



Instrument :
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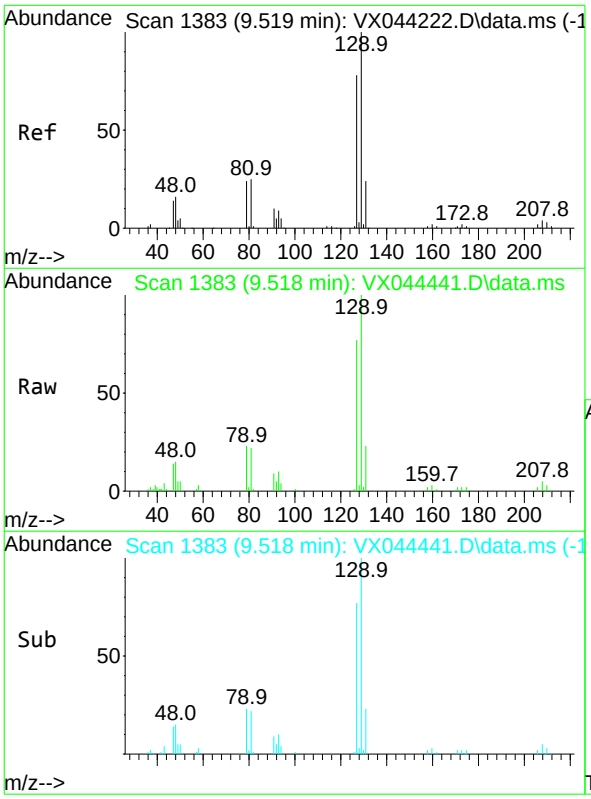
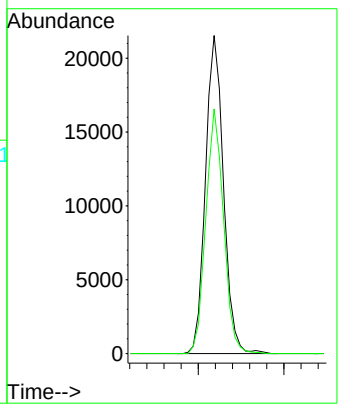
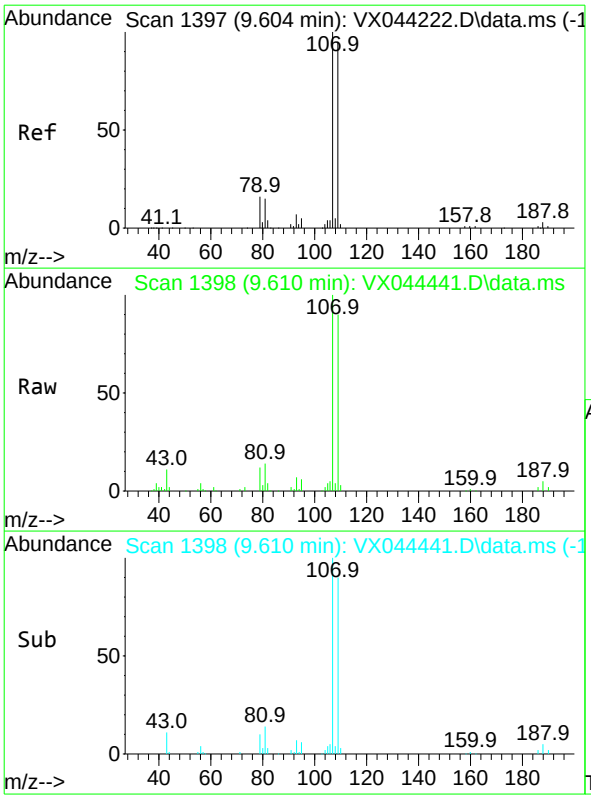


#60
Dibromochloromethane
Concen: 18.848 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:129 Resp: 31411

Ion	Ratio	Lower	Upper
129	100		
127	75.9	38.5	115.3

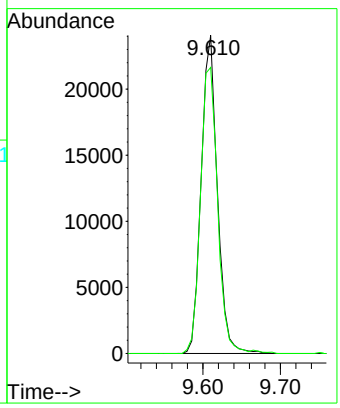




#61
1,2-Dibromoethane
Concen: 20.234 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:107 Resp: 34801

Ion	Ratio	Lower	Upper
107	100		
109	96.1	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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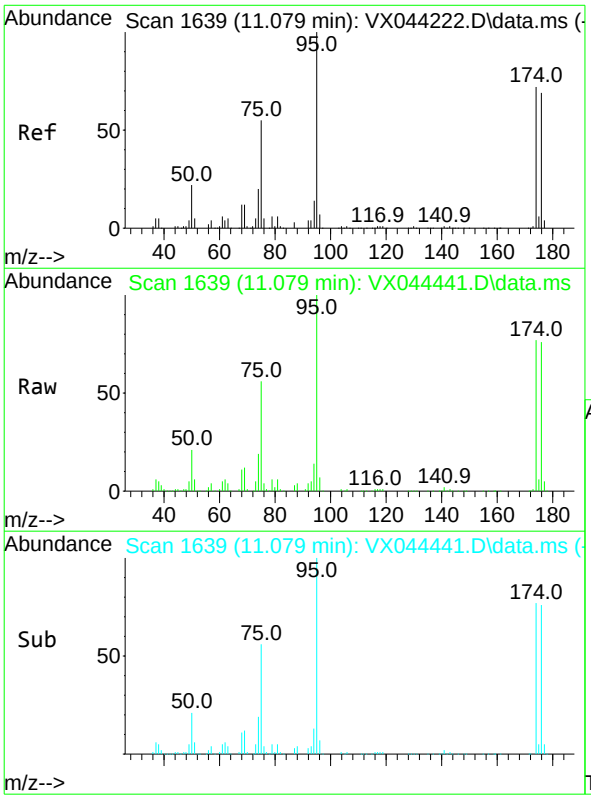
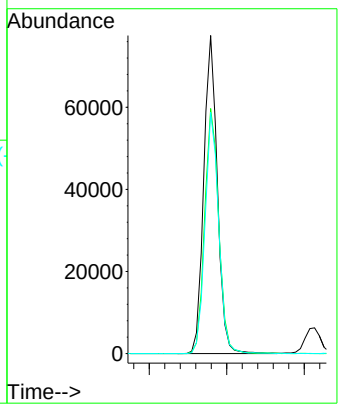
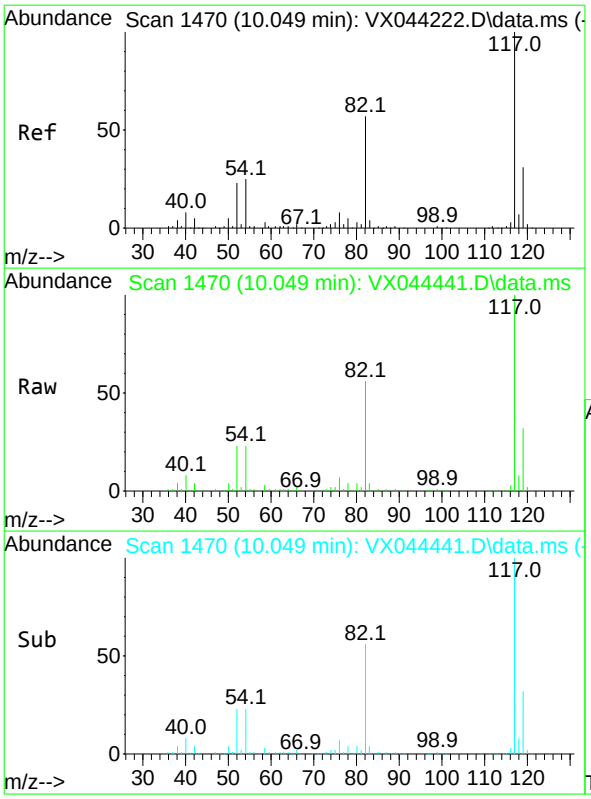


#62
4-Bromofluorobenzene
Concen: 46.443 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 95 Resp: 94485

Ion	Ratio	Lower	Upper
95	100		
174	79.5	0.0	145.8
176	76.2	0.0	137.8

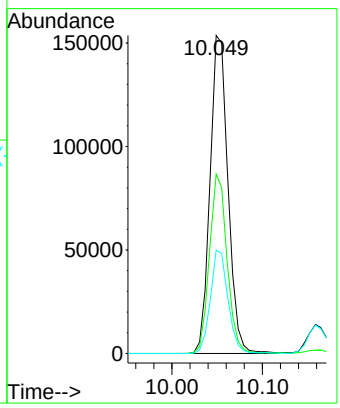




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 212384

Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.5	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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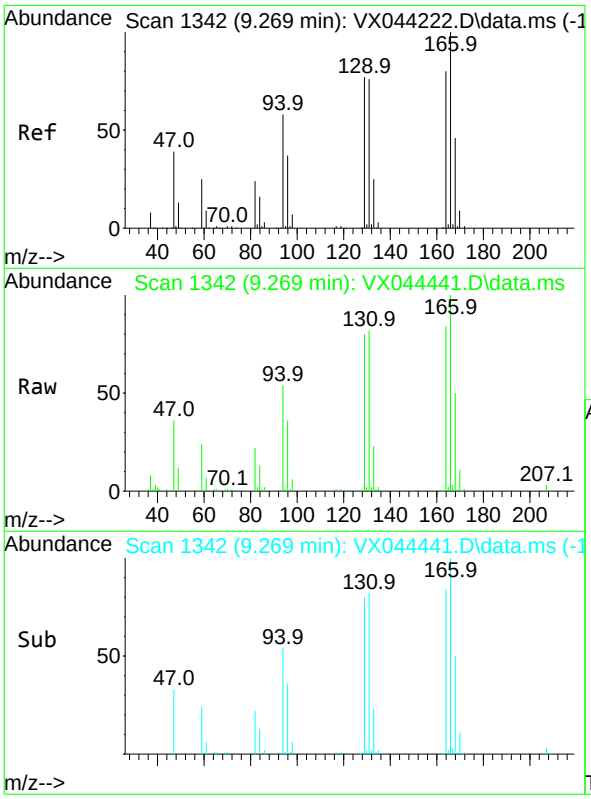
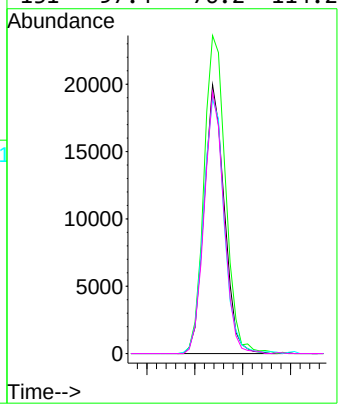
Supervised By :Mahesh Dadoda 12/24/2024

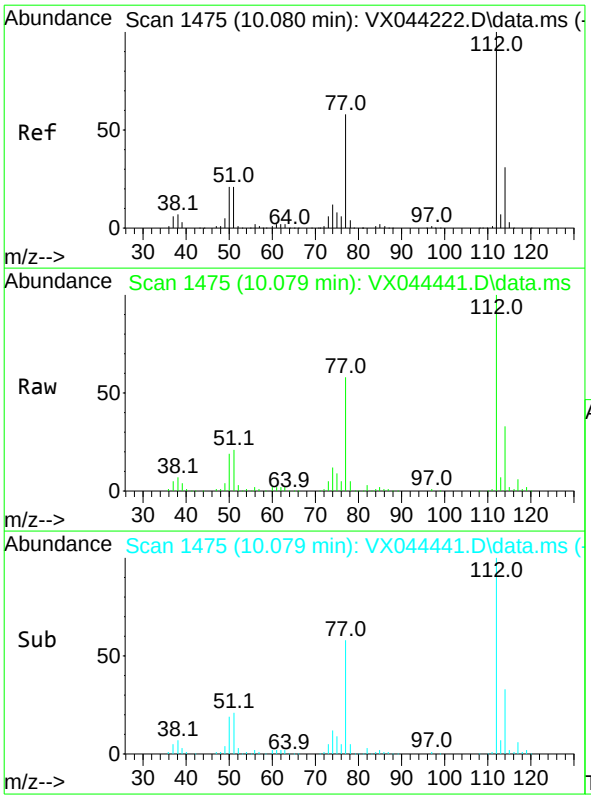


#64
Tetrachloroethene
Concen: 20.762 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:164 Resp: 29267

Ion	Ratio	Lower	Upper
164	100		
166	118.4	100.4	150.6
129	94.7	77.2	115.8
131	97.4	76.2	114.2

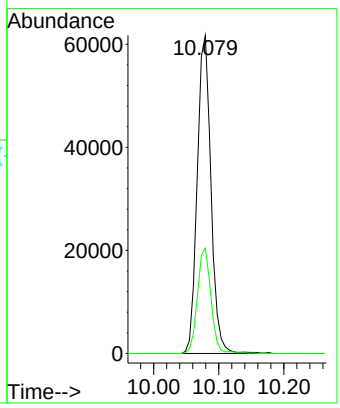




#65
Chlorobenzene
Concen: 19.906 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:112 Resp: 90589

Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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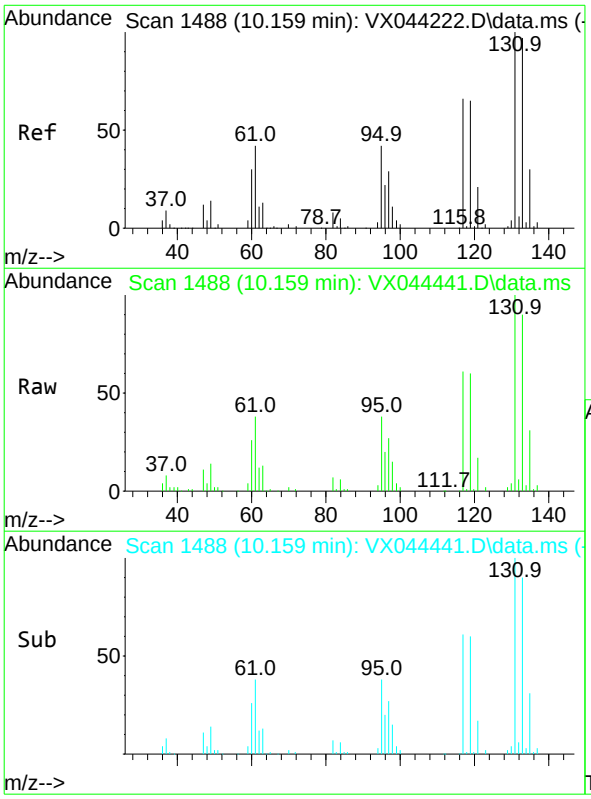
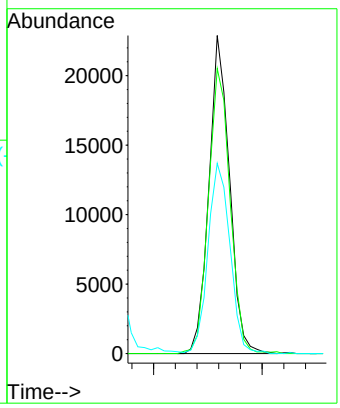
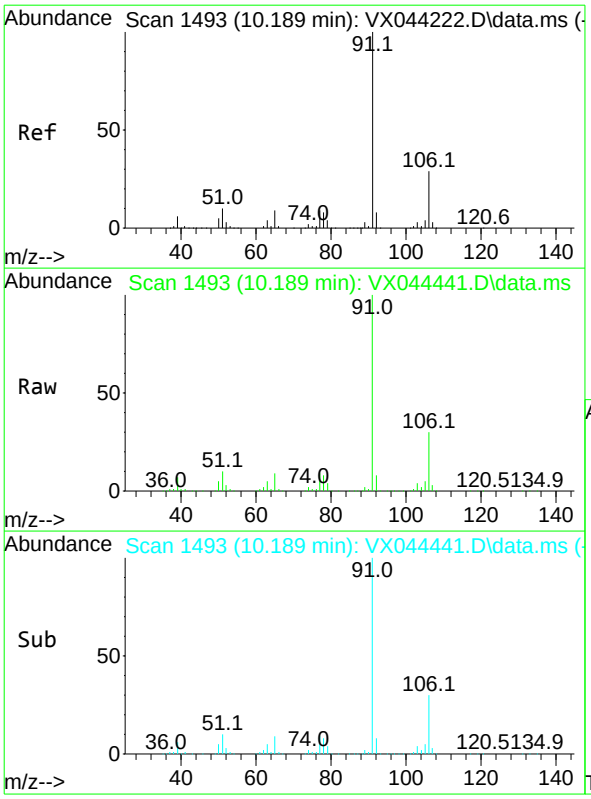


#66
1,1,1,2-Tetrachloroethane
Concen: 20.643 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:131 Resp: 30193

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	141.8
119	63.9	31.6	95.0

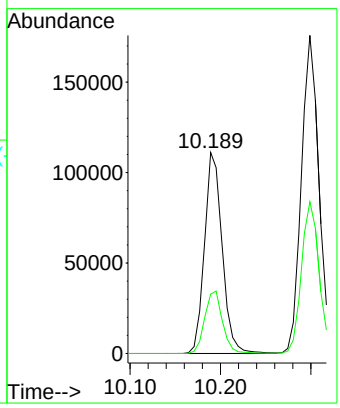




#67
Ethyl Benzene
Concen: 19.217 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 151105

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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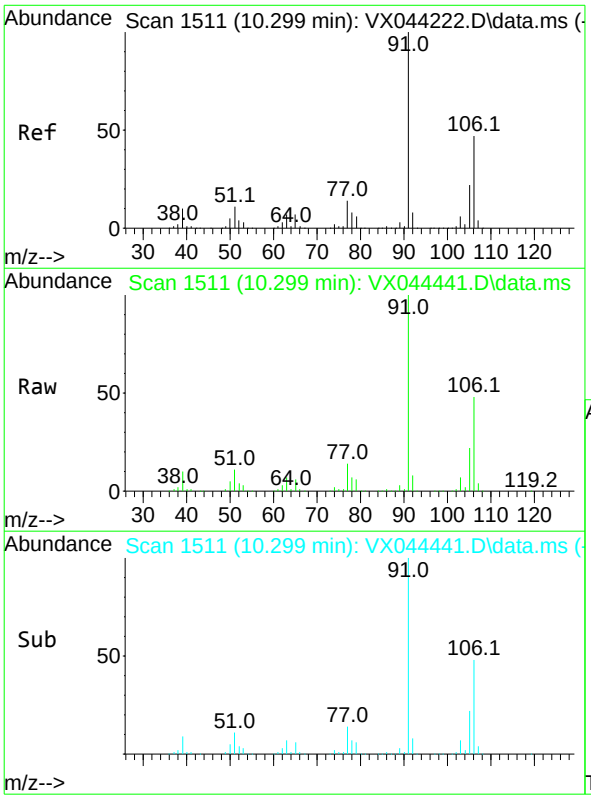
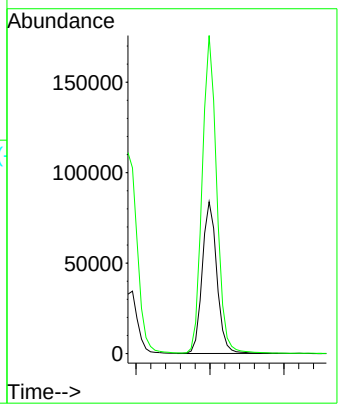
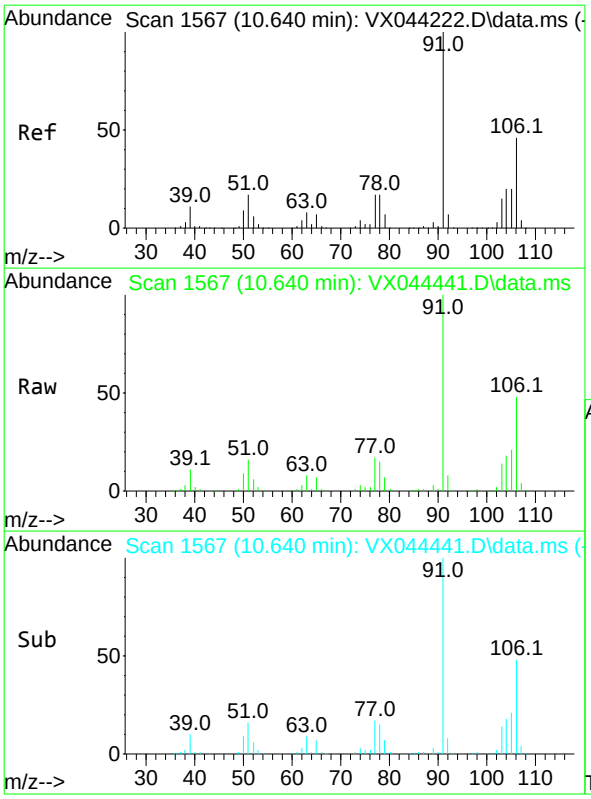


#68
m/p-Xylenes
Concen: 39.825 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:106 Resp: 114910

Ion	Ratio	Lower	Upper
106	100		
91	208.6	170.2	255.2

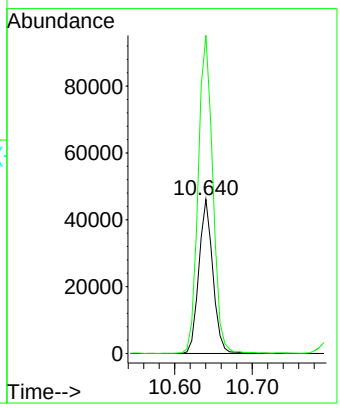




#69
o-Xylene
Concen: 19.797 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:106 Resp: 57794

Ion	Ratio	Lower	Upper
106	100		
91	216.0	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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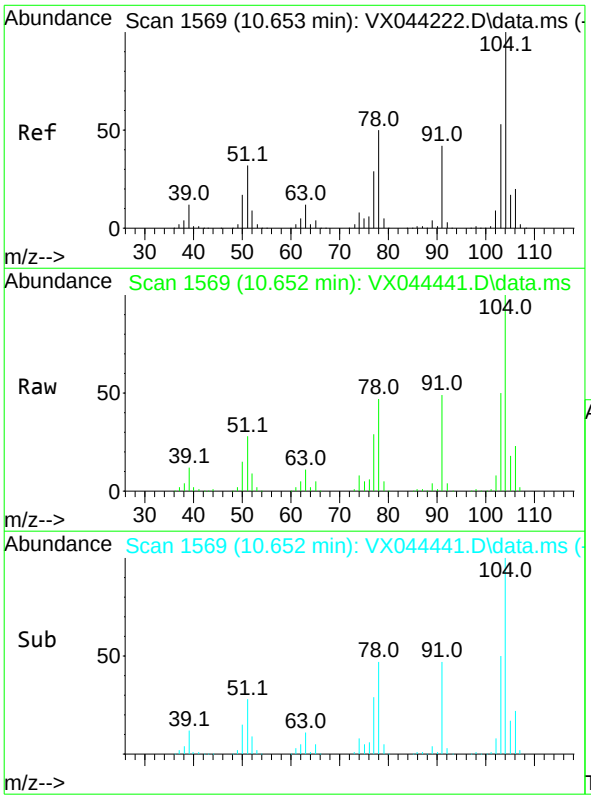
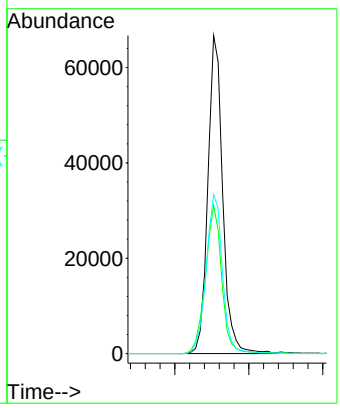
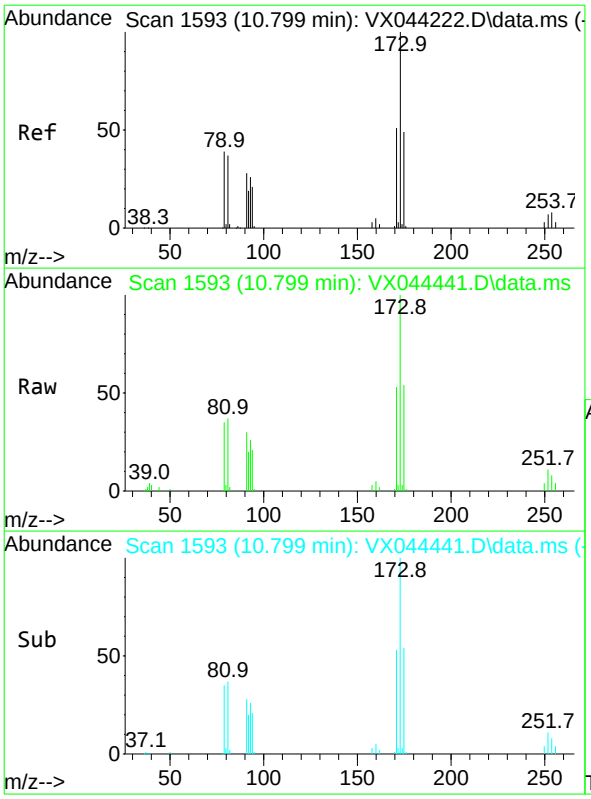


#70
Styrene
Concen: 19.825 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:104 Resp: 92784

Ion	Ratio	Lower	Upper
104	100		
78	51.2	44.6	67.0
103	55.0	45.4	68.0

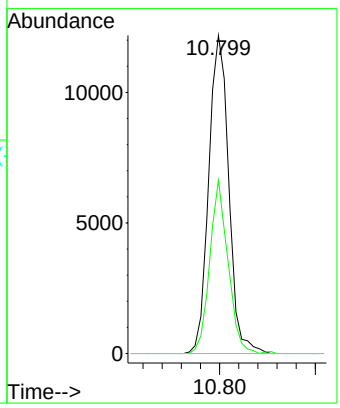




#71
Bromoform
Concen: 19.275 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:173 Resp: 17659

Ion	Ratio	Lower	Upper
173	100		
175	49.7	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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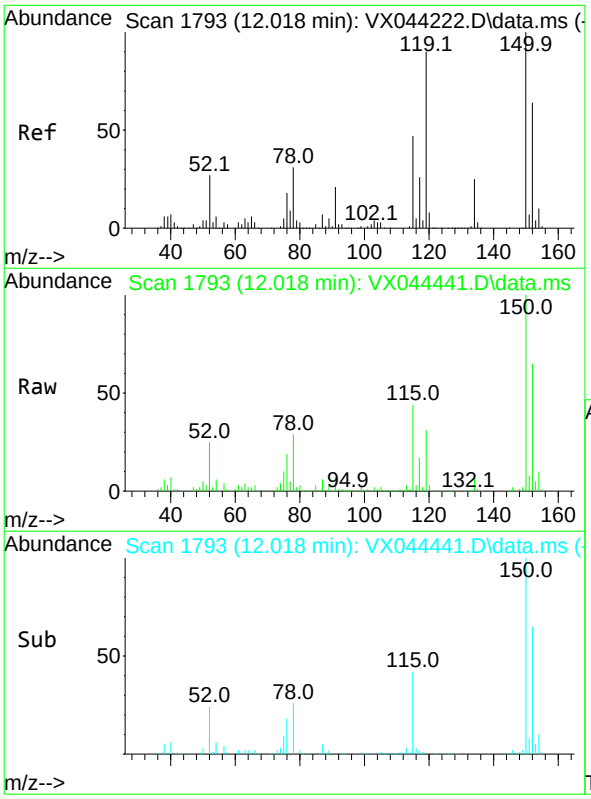
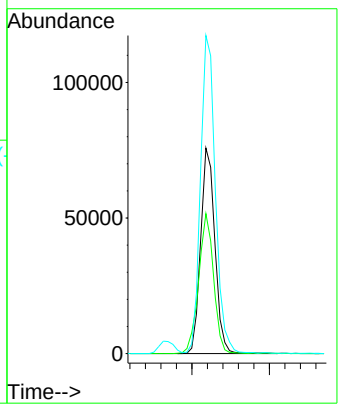
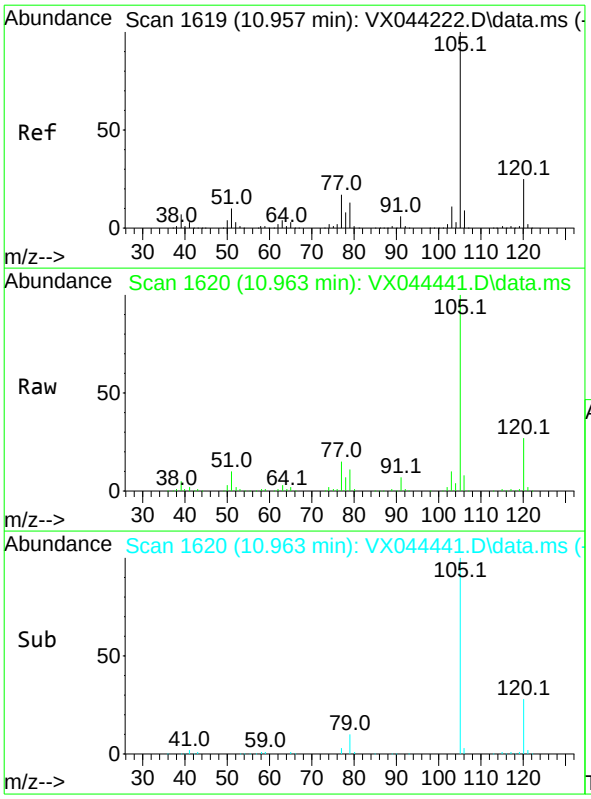


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:152 Resp: 96885

Ion	Ratio	Lower	Upper
152	100		
115	71.2	44.5	133.3
150	160.7	0.0	353.8

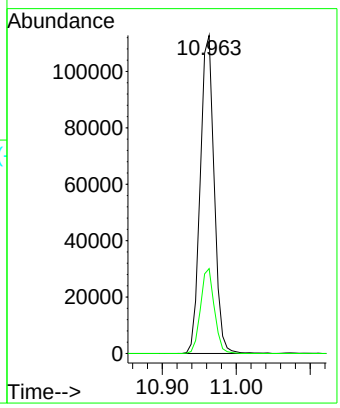




#73
Isopropylbenzene
Concen: 19.872 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 147393

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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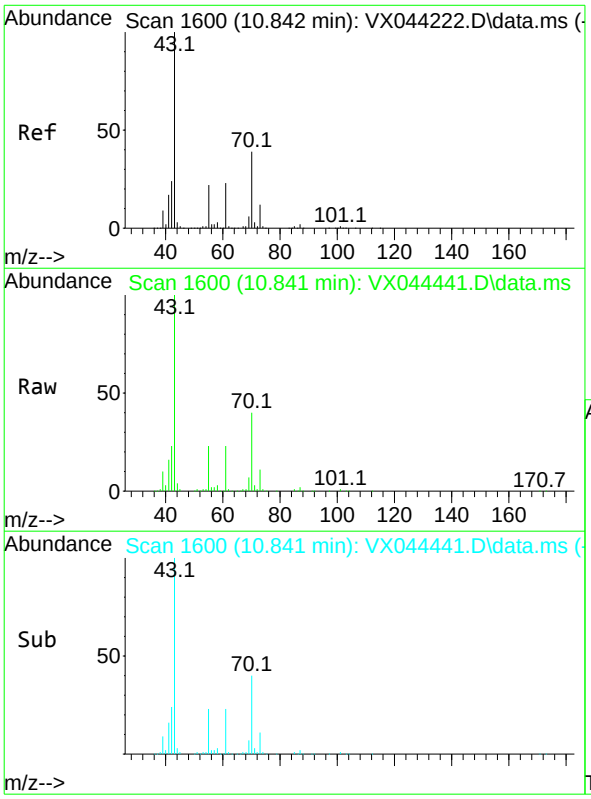
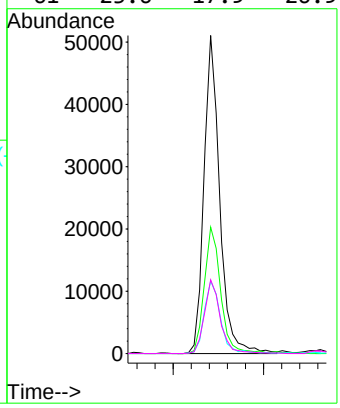
Supervised By :Mahesh Dadoda 12/24/2024

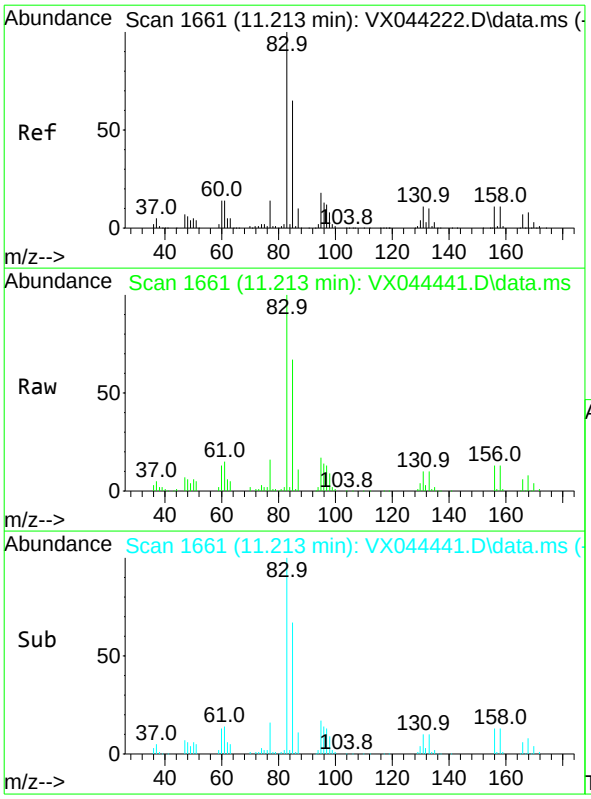


#74
N-amyl acetate
Concen: 18.038 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 61829

Ion	Ratio	Lower	Upper
43	100		
70	41.5	31.9	47.9
55	23.7	17.9	26.9
61	23.6	17.9	26.9

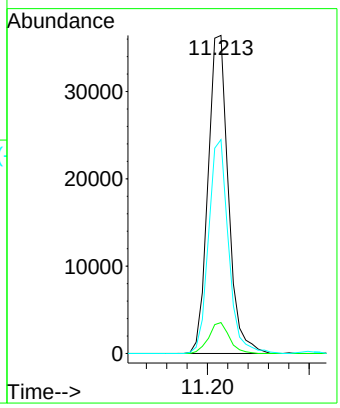




#75
1,1,2,2-Tetrachloroethane
Concen: 19.570 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 50416

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	65.9	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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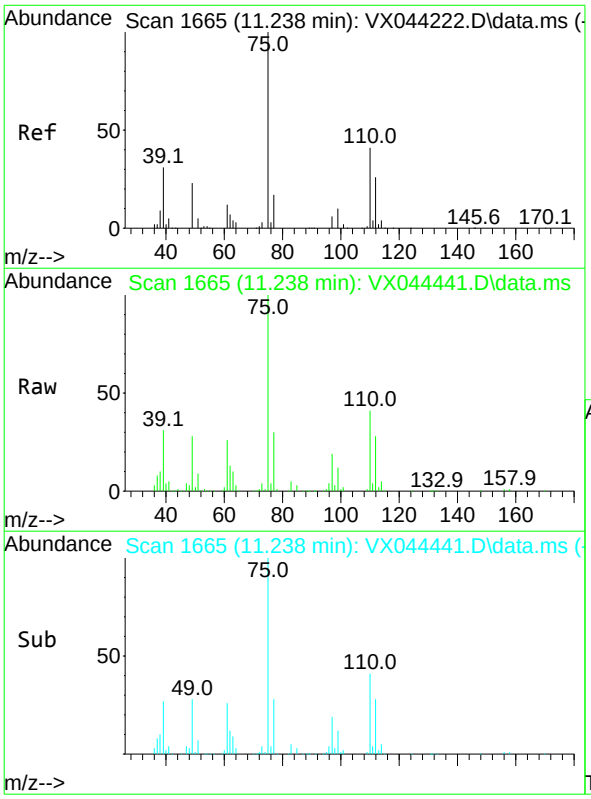
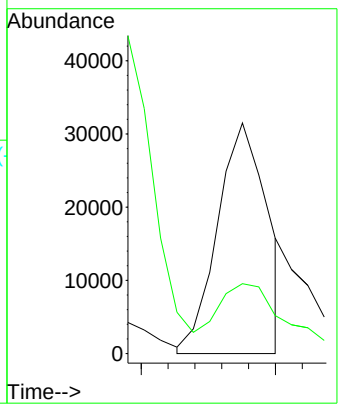
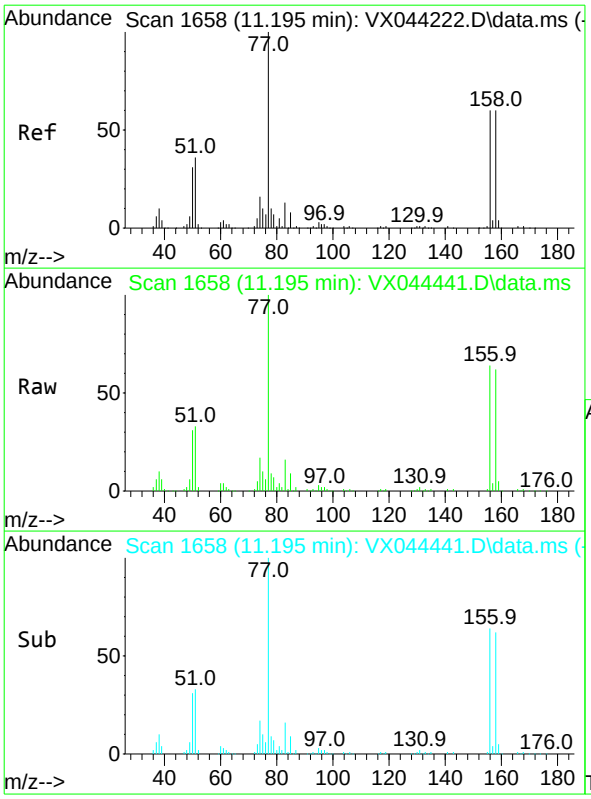


#76
1,2,3-Trichloropropane
Concen: 18.784 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 40633

Ion	Ratio	Lower	Upper
75	100		
77	42.0	20.9	62.7





#77
Bromobenzene
Concen: 20.145 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:156 Resp: 36233

Ion	Ratio	Lower	Upper
156	100		
77	155.2	82.6	247.8
158	96.9	48.8	146.4

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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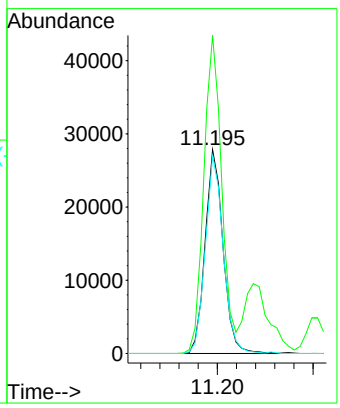
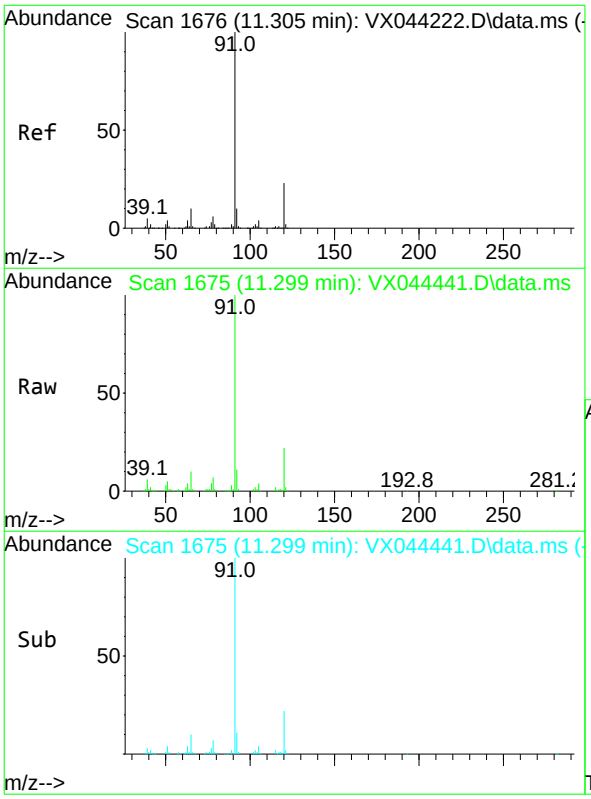
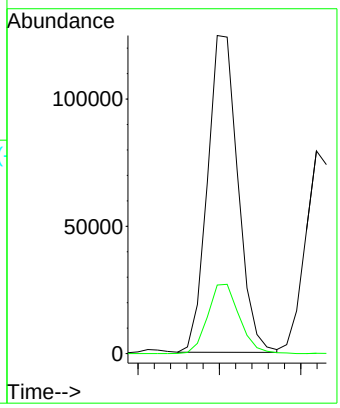


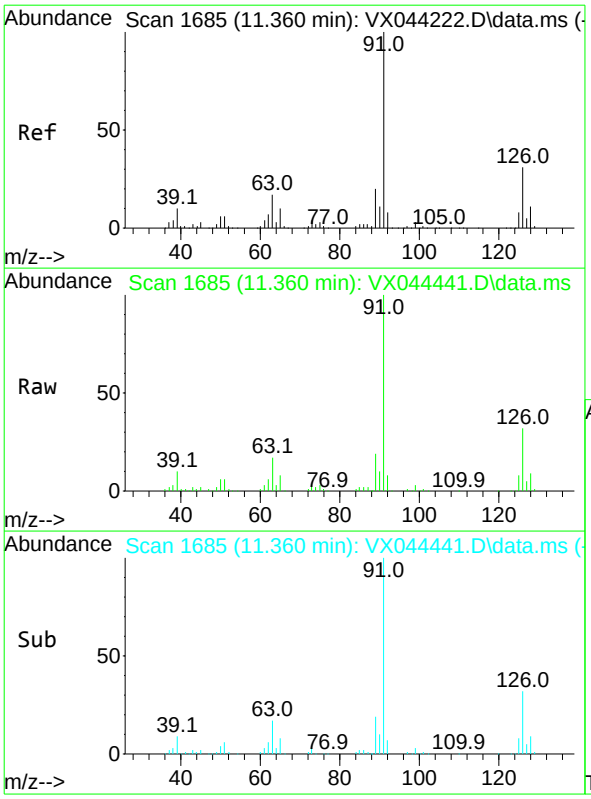


#78
n-propylbenzene
Concen: 19.765 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 162028

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.0	33.0

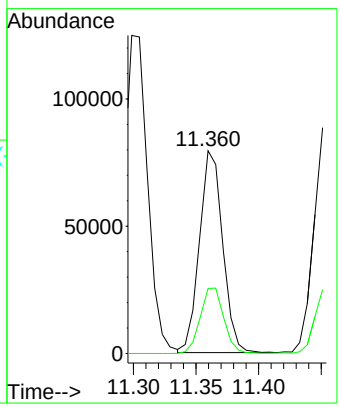




#79
2-Chlorotoluene
Concen: 19.279 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 102209

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
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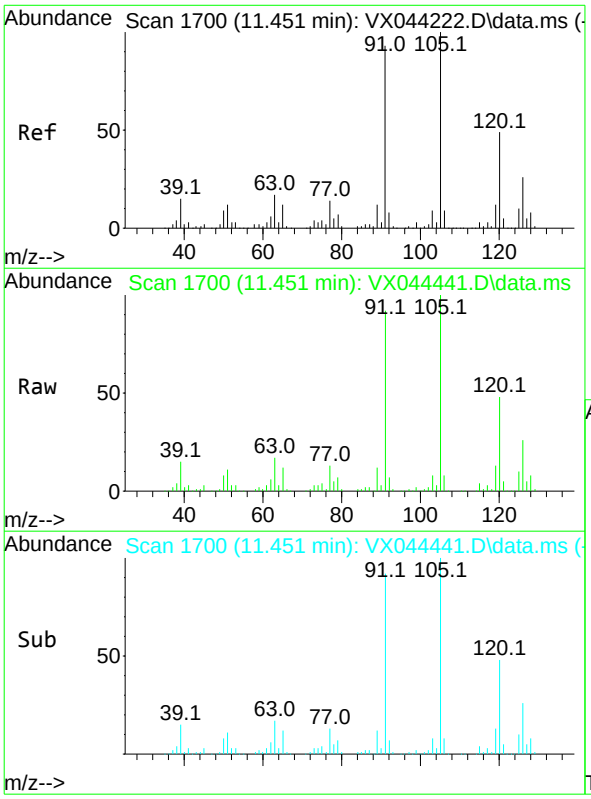
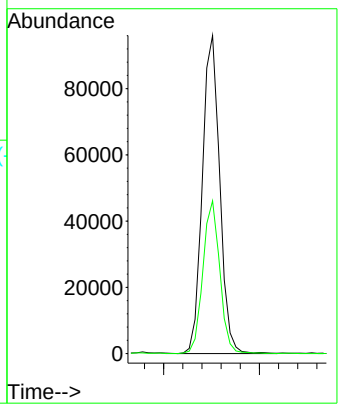
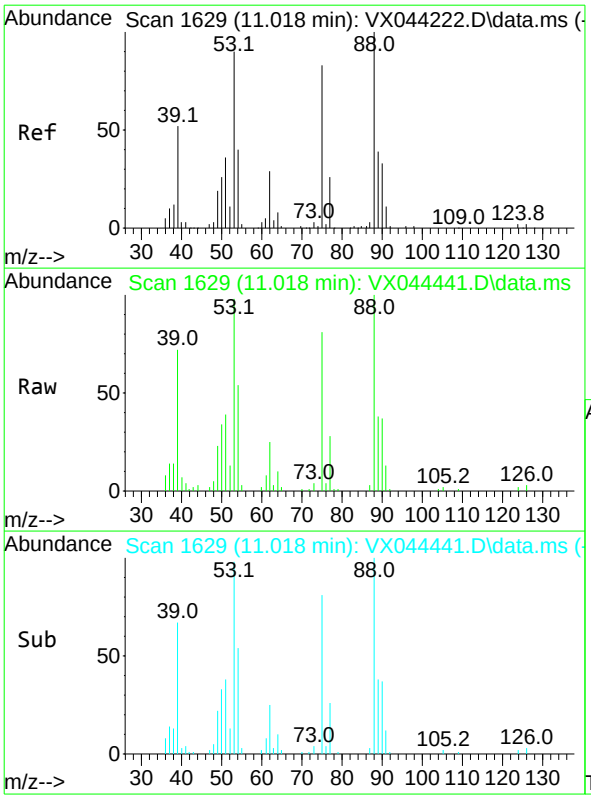


#80
1,3,5-Trimethylbenzene
Concen: 19.709 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121225

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.8	71.4

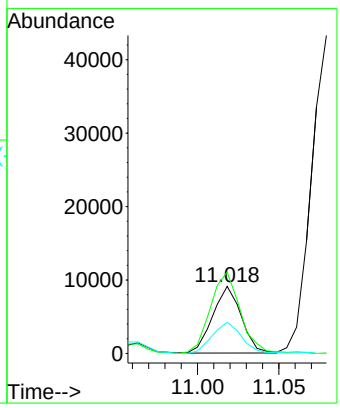




#81
trans-1,4-Dichloro-2-butene
Concen: 18.609 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 11072

Ion	Ratio	Lower	Upper
75	100		
53	129.5	93.6	140.4
89	48.5	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
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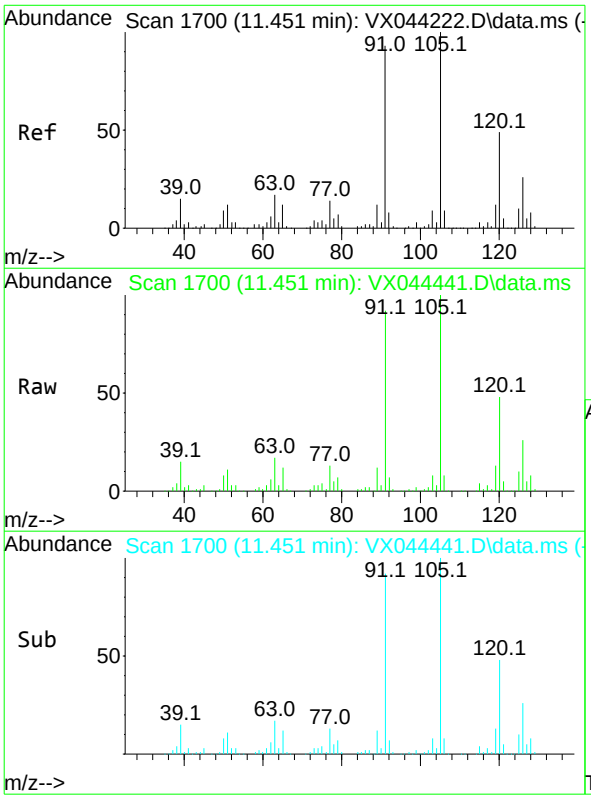
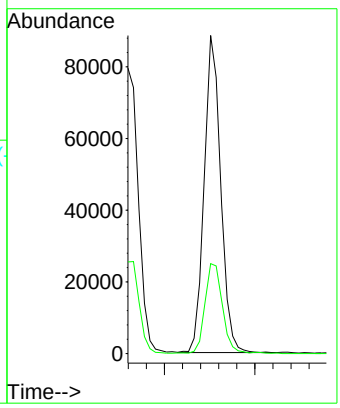
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

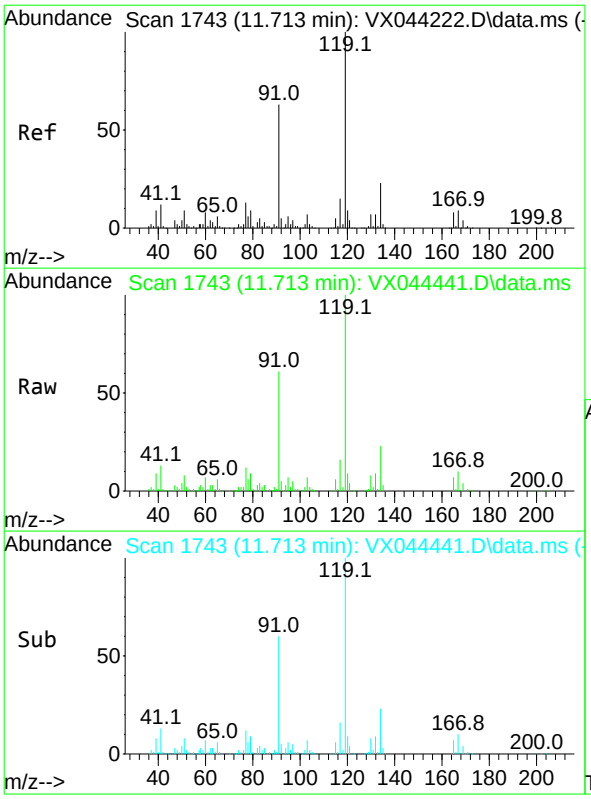


#82
4-Chlorotoluene
Concen: 19.122 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 112263

Ion	Ratio	Lower	Upper
91	100		
126	30.4	14.5	43.5

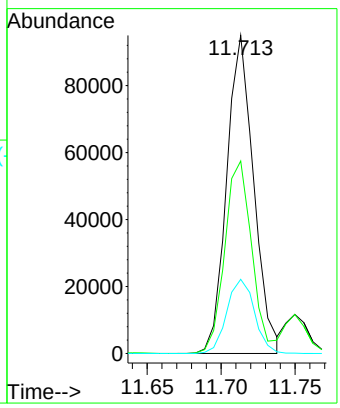




#83
tert-Butylbenzene
Concen: 19.827 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:119 Resp: 120518

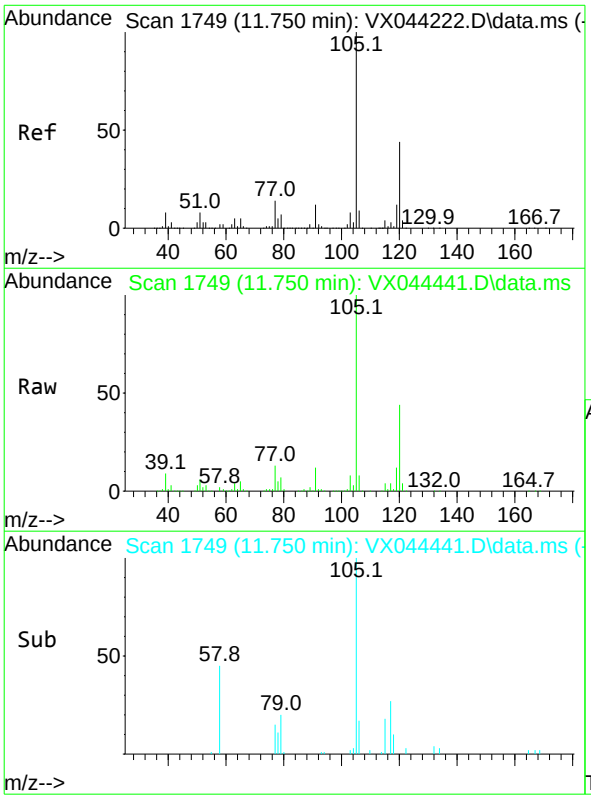
Ion	Ratio	Lower	Upper
119	100		
91	61.1	30.9	92.5
134	23.9	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

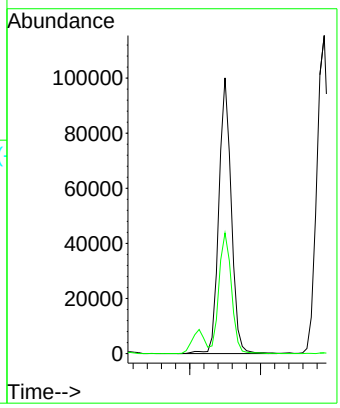
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

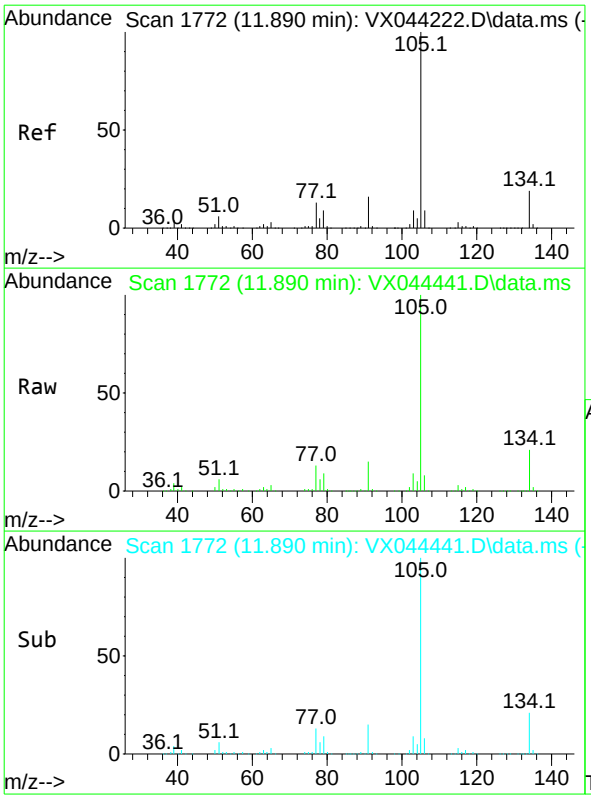


#84
1,2,4-Trimethylbenzene
Concen: 20.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121322

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1

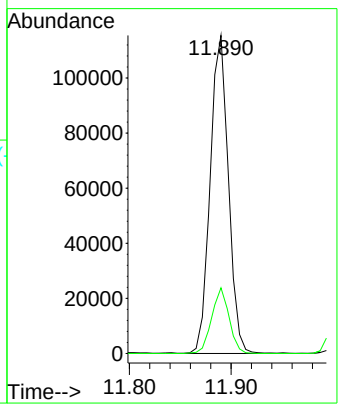




#85
sec-Butylbenzene
Concen: 19.477 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 143732

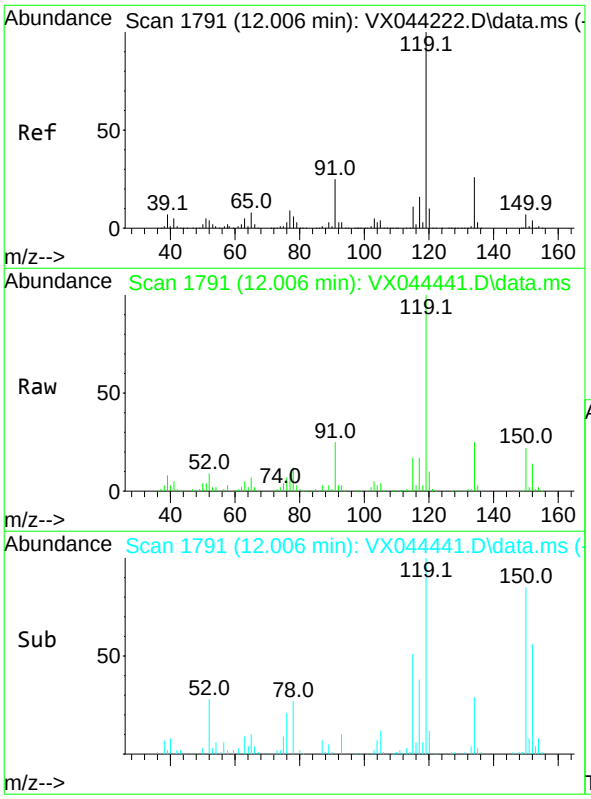
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations
APPROVED

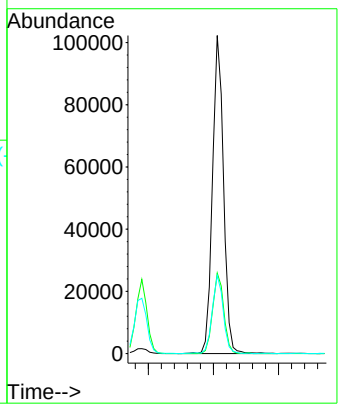
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

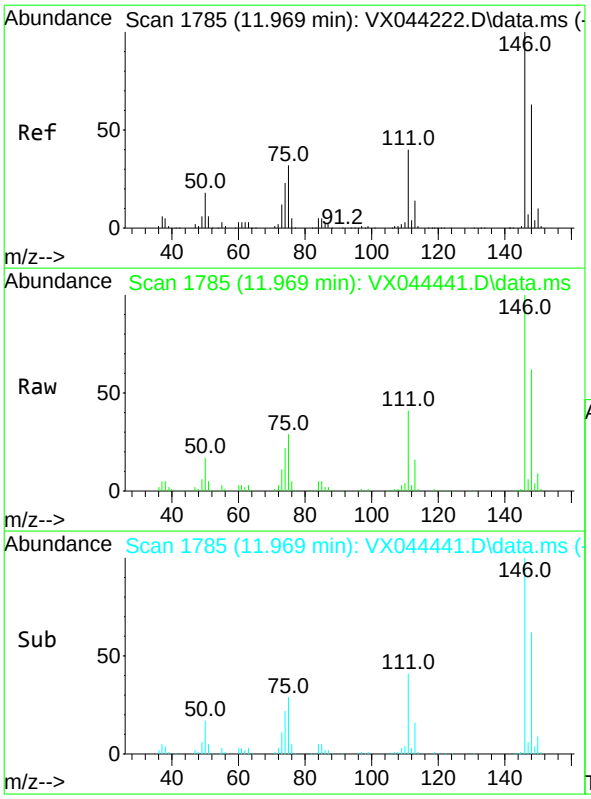


#86
p-Isopropyltoluene
Concen: 19.596 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:119 Resp: 120356

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.4
91	24.7	13.0	39.0

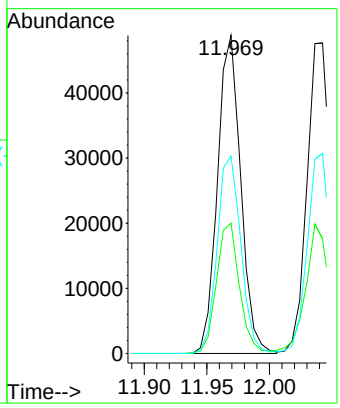




#87
1,3-Dichlorobenzene
Concen: 20.058 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:146 Resp: 63016

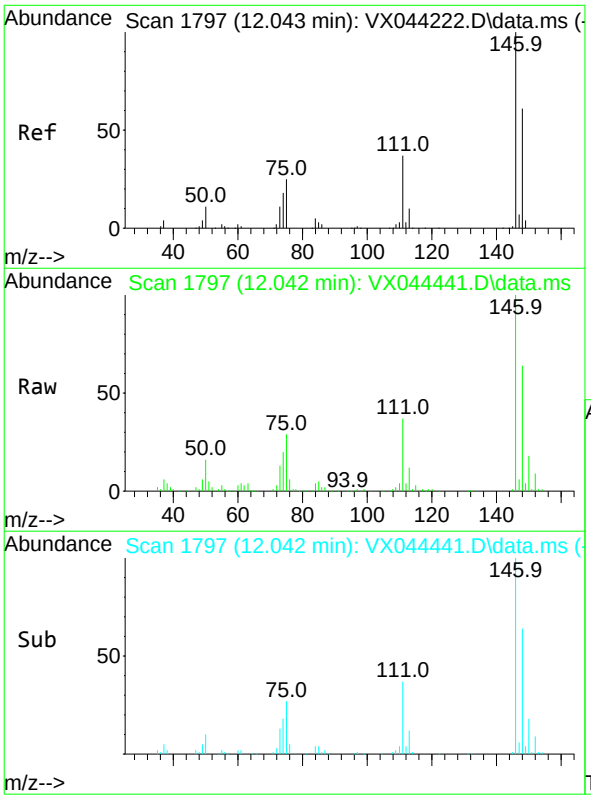
Ion	Ratio	Lower	Upper
146	100		
111	40.6	21.4	64.2
148	63.0	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

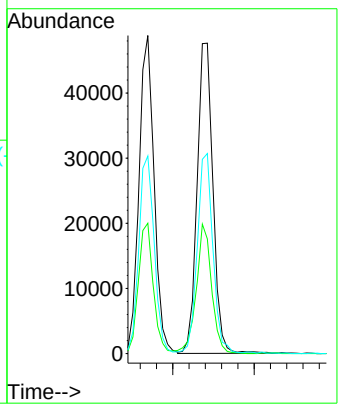
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

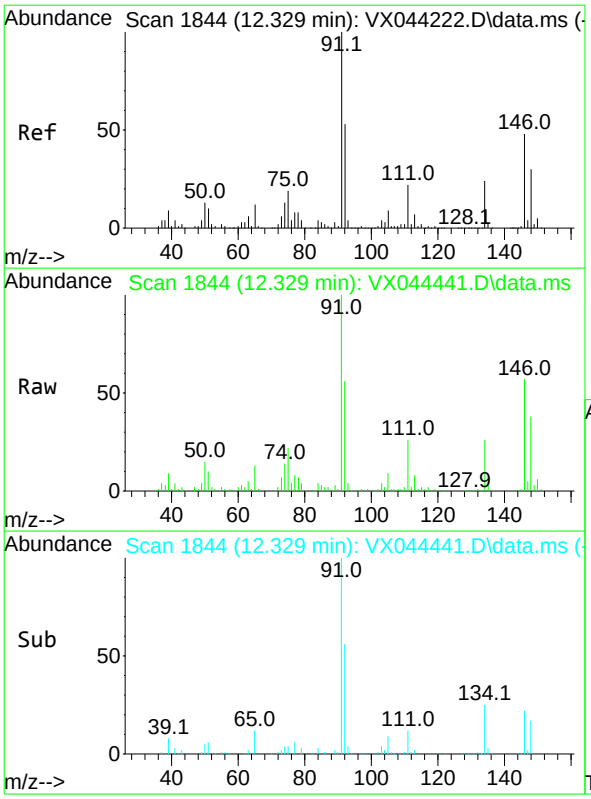


#88
1,4-Dichlorobenzene
Concen: 19.954 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:146 Resp: 64444

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.0	63.0
148	63.0	32.3	96.8

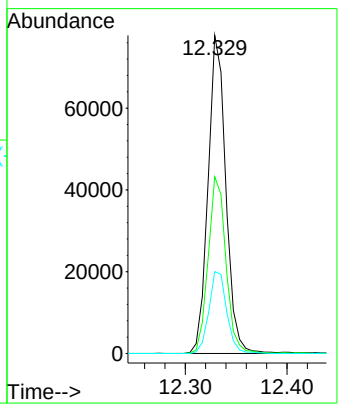




#89
n-Butylbenzene
Concen: 18.279 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 94402

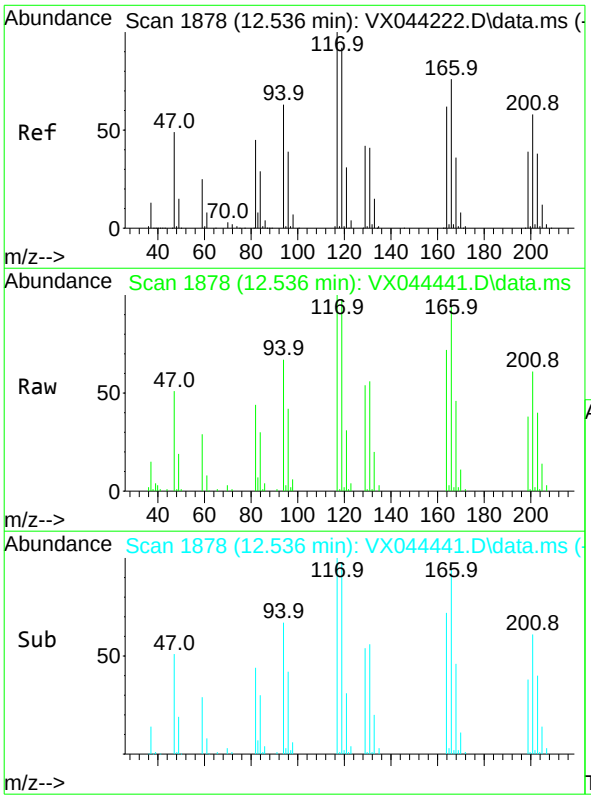
Ion	Ratio	Lower	Upper
91	100		
92	55.5	26.6	79.7
134	25.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

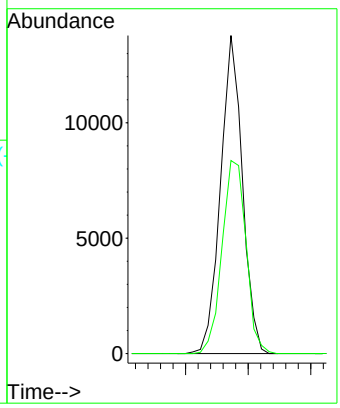
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

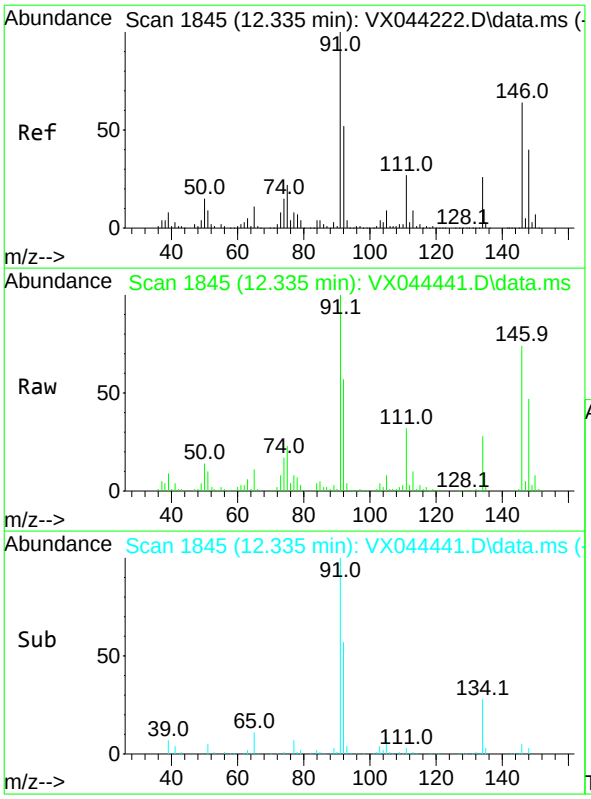


#90
Hexachloroethane
Concen: 18.640 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 16712

Ion	Ratio	Lower	Upper
117	100		
201	66.5	31.4	94.2

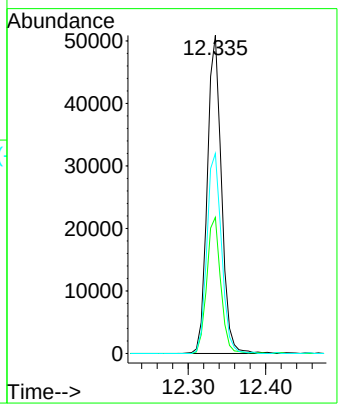




#91
1,2-Dichlorobenzene
Concen: 19.798 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:146 Resp: 64584

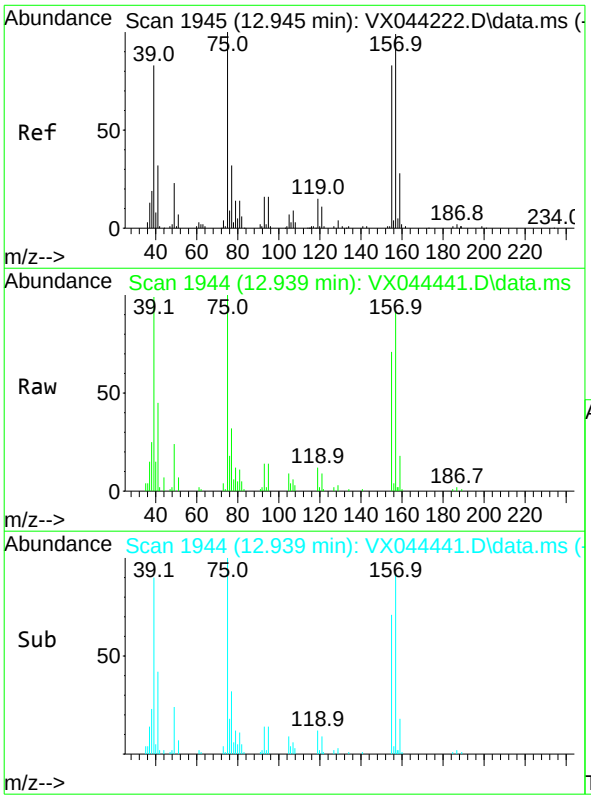
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.4	64.3
148	64.8	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

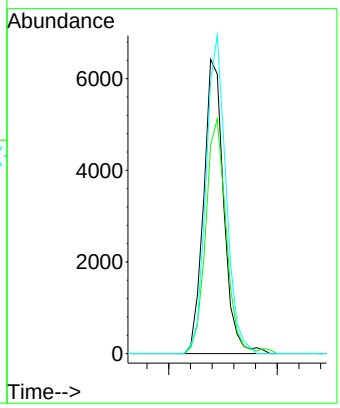
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

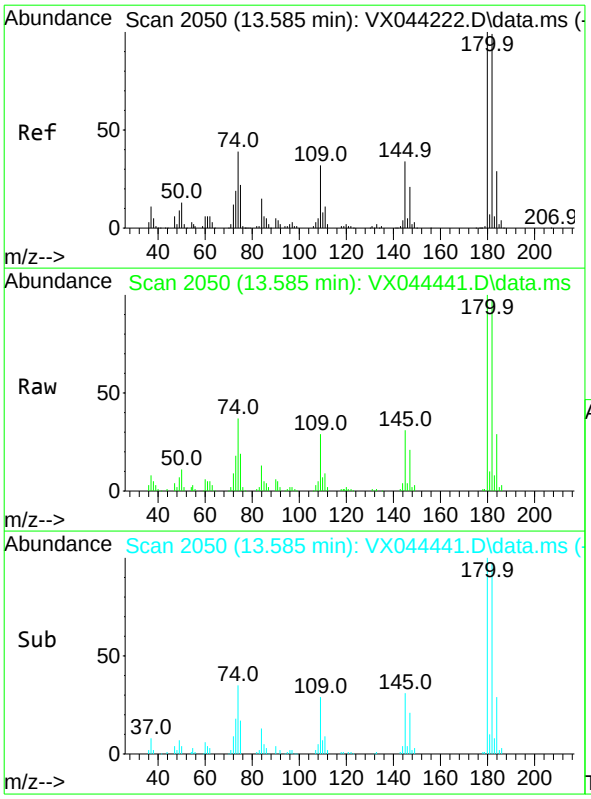


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.523 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 8263

Ion	Ratio	Lower	Upper
75	100		
155	81.6	38.1	114.3
157	107.5	47.2	141.6

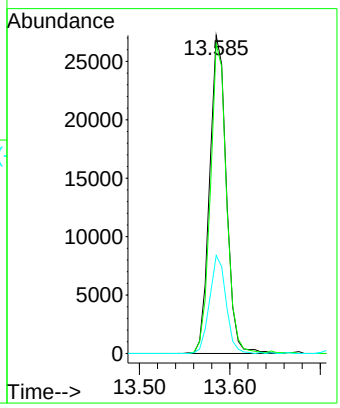




#93
1,2,4-Trichlorobenzene
Concen: 19.470 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:180 Resp: 34820

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.2
145	30.4	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Manual Integrations APPROVED

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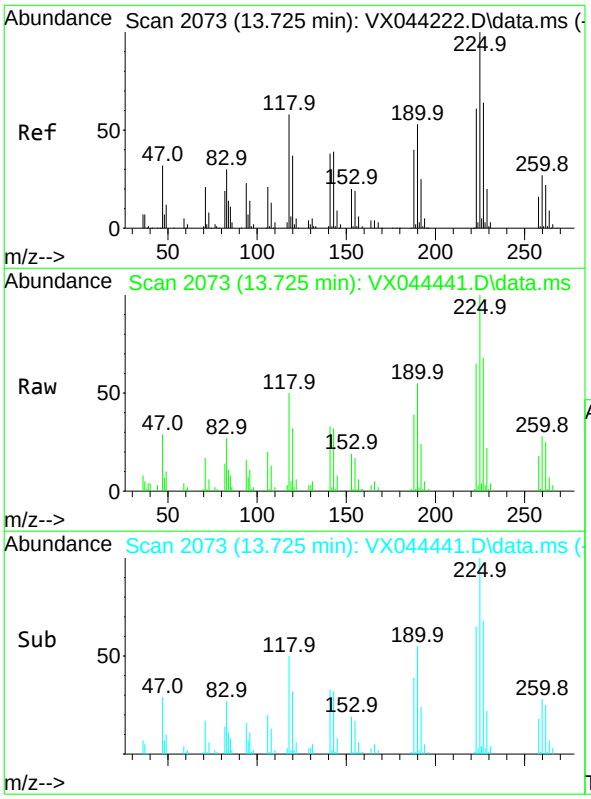
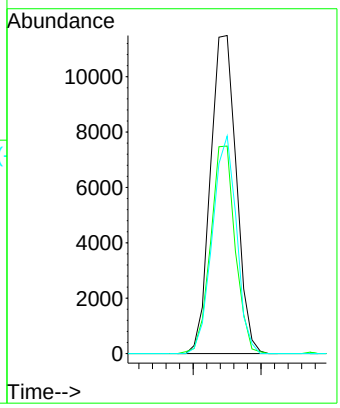
Supervised By :Mahesh Dadoda 12/24/2024

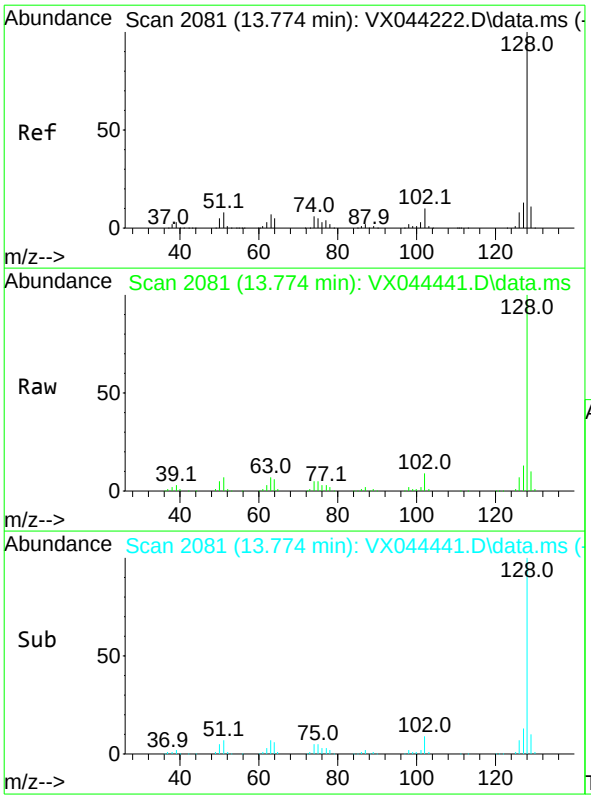


#94
Hexachlorobutadiene
Concen: 21.174 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:225 Resp: 15232

Ion	Ratio	Lower	Upper
225	100		
223	62.0	30.8	92.4
227	63.6	32.1	96.3

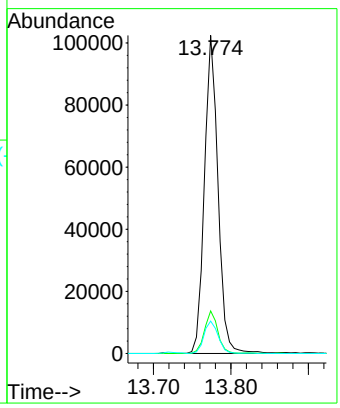




#95
Naphthalene
Concen: 17.830 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:128 Resp: 124472

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

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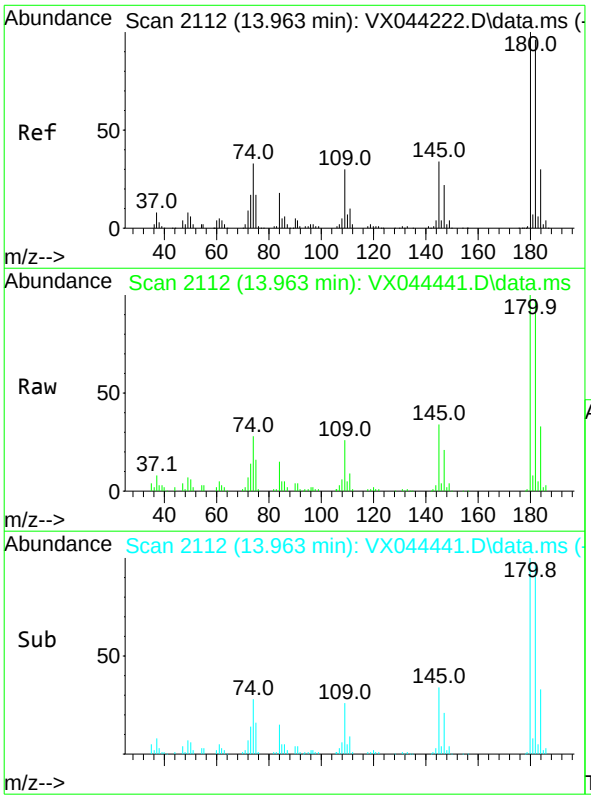
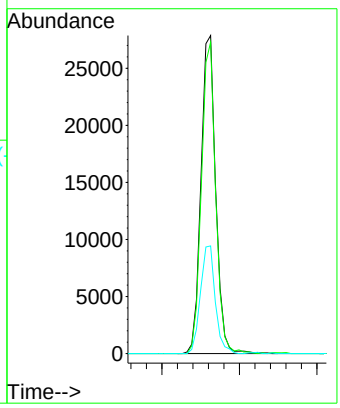


#96
1,2,3-Trichlorobenzene
Concen: 19.378 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:180 Resp: 36757

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	34.2	17.7	53.1



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBSD01	SDG No.:	P5281
Lab Sample ID:	VX1218WBSD01	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
VX044379.D	1		12/18/24 13:38	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.8		0.21	0.50	1.00	ug/L
74-87-3	Chloromethane	19.1		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.8		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	17.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.6		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.8		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.2		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.6		0.26	0.75	1.00	ug/L
67-64-1	Acetone	79.6		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	18.8		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.9		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	18.7		0.60	0.75	1.00	ug/L
75-09-2	Methylene Chloride	18.8		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.5		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	19.0		1.60	2.50	5.00	ug/L
78-93-3	2-Butanone	90.9		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	18.2		0.25	0.75	1.00	ug/L
74-97-5	Bromochloromethane	17.4		0.18	0.50	1.00	ug/L
67-66-3	Chloroform	18.2		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.0		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	21.5		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.2		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	19.4		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.6		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	97.7		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.8		0.18	0.50	1.00	ug/L

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBSD01	SDG No.:	P5281
Lab Sample ID:	VX1218WBSD01	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
VX044379.D	1		12/18/24 13:38	VX121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.4		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	98.6		1.10	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	18.9		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.5		0.16	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.5		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.3		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	18.9		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.8		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.9		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.19	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.4		0.46	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.3		0.42	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.4		0.51	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.8		81 - 118		94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	148000	5.544				
540-36-3	1,4-Difluorobenzene	256000	6.757				
3114-55-4	Chlorobenzene-d5	225000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	101000	12.018				

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VX1218WBSD01	SDG No.:	P5281
Lab Sample ID:	VX1218WBSD01	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
VX044379.D	1		12/18/24 13:38	VX121824

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\VX121824\
Data File : VX044379.D
Acq On : 18 Dec 2024 13:38
Operator : JC/MD
Sample : VX1218WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 00:44:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations APPROVED
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	147797	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	256001	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	224705	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	101474	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	121233	46.783	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.560%			
35) Dibromofluoromethane	5.379	113	88067	49.670	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.340%			
50) Toluene-d8	8.647	98	302636	50.593	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.180%			
62) 4-Bromofluorobenzene	11.079	95	105722	50.581	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	45251	19.801	ug/l	97
3) Chloromethane	1.294	50	41759	19.108	ug/l	100
4) Vinyl Chloride	1.374	62	42787	18.793	ug/l	98
5) Bromomethane	1.593	94	27623	17.102	ug/l	98
6) Chloroethane	1.666	64	30662	21.628	ug/l	96
7) Trichlorofluoromethane	1.874	101	70228	15.756	ug/l	96
8) Diethyl Ether	2.130	74	26108	17.160	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	34599	19.183	ug/l	97
10) Methyl Iodide	2.441	142	44464	18.705	ug/l	97
11) Tert butyl alcohol	2.977	59	39802	108.982	ug/l #	93
12) 1,1-Dichloroethene	2.306	96	32443	19.584	ug/l	98
13) Acrolein	2.233	56	46746	88.423	ug/l	98
14) Allyl chloride	2.654	41	51394	18.626	ug/l	97
15) Acrylonitrile	3.062	53	97173	96.053	ug/l	99
16) Acetone	2.386	43	84104	79.609	ug/l	96
17) Carbon Disulfide	2.502	76	59114	18.772	ug/l	99
18) Methyl Acetate	2.703	43	50892	18.683	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	122090	18.886	ug/l	100
20) Methylene Chloride	2.782	84	37302	18.799	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	32522	18.472	ug/l	98
22) Diisopropyl ether	3.757	45	116460	18.743	ug/l #	86
23) Vinyl Acetate	3.721	43	506590	100.283	ug/l	98
24) 1,1-Dichloroethane	3.605	63	64917	18.743	ug/l	98
25) 2-Butanone	4.562	43	136514	90.894	ug/l	97
26) 2,2-Dichloropropane	4.465	77	53495	19.012	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	40632	18.171	ug/l	98
28) Bromochloromethane	4.897	49	29472	17.353	ug/l	98
29) Tetrahydrofuran	5.007	42	89366	92.701	ug/l	98
30) Chloroform	5.093	83	70829	18.201	ug/l	98
31) Cyclohexane	5.458	56	53278	19.049	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	58144	18.000	ug/l	98
36) 1,1-Dichloropropene	5.684	75	42509	18.548	ug/l	99
37) Ethyl Acetate	4.715	43	59443	20.982	ug/l	98
38) Carbon Tetrachloride	5.666	117	46061	18.667	ug/l	97
39) Methylcyclohexane	7.373	83	58860	21.483	ug/l	99
40) Benzene	6.031	78	140673	20.216	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044379.D
Acq On : 18 Dec 2024 13:38
Operator : JC/MD
Sample : VX1218WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 00:44:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	29251	19.444 ug/l	97
42) 1,2-Dichloroethane	6.080	62	56652	19.764 ug/l	100
43) Isopropyl Acetate	6.342	43	88627	20.015 ug/l	99
44) Trichloroethene	7.123	130	33708	19.425 ug/l	95
45) 1,2-Dichloropropane	7.427	63	34278	19.281 ug/l	99
46) Dibromomethane	7.580	93	28343	20.550 ug/l	98
47) Bromodichloromethane	7.818	83	46701	19.606 ug/l	97
48) Methyl methacrylate	7.696	41	42973	19.992 ug/l	98
49) 1,4-Dioxane	7.665	88	9037m	253.579 ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	278065	97.665 ug/l	99
52) Toluene	8.714	92	86445	19.782 ug/l	100
53) t-1,3-Dichloropropene	8.976	75	47425	19.754 ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	52882	20.390 ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	35003	20.163 ug/l	98
56) Ethyl methacrylate	9.116	69	55135	20.118 ug/l	98
57) 1,3-Dichloropropane	9.305	76	62014	20.523 ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	122427	88.570 ug/l	98
59) 2-Hexanone	9.427	43	203147	98.576 ug/l	100
60) Dibromochloromethane	9.519	129	32432	18.934 ug/l	99
61) 1,2-Dibromoethane	9.610	107	36303	20.544 ug/l	97
64) Tetrachloroethene	9.269	164	28683	19.232 ug/l	98
65) Chlorobenzene	10.079	112	94134	19.550 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	30368	19.624 ug/l	99
67) Ethyl Benzene	10.189	91	159963	19.228 ug/l	99
68) m/p-Xylenes	10.299	106	120723	39.546 ug/l	97
69) o-Xylene	10.640	106	59698	19.328 ug/l	98
70) Styrene	10.653	104	97751	19.741 ug/l	96
71) Bromoform	10.799	173	18261	18.882 ug/l #	94
73) Isopropylbenzene	10.963	105	153918	19.814 ug/l	100
74) N-amyl acetate	10.842	43	68625	19.115 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	52724	19.541 ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	43463m	19.183 ug/l	
77) Bromobenzene	11.195	156	36606	19.432 ug/l	100
78) n-propylbenzene	11.305	91	169075	19.692 ug/l	98
79) 2-Chlorotoluene	11.366	91	105145	18.936 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	126232	19.595 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	12684	19.831 ug/l	95
82) 4-Chlorotoluene	11.451	91	119703	19.467 ug/l	99
83) tert-Butylbenzene	11.713	119	125228	19.670 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	127328	20.126 ug/l	99
85) sec-Butylbenzene	11.890	105	153481	19.858 ug/l	99
86) p-Isopropyltoluene	12.006	119	126744	19.703 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	65361	19.864 ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	64574	19.090 ug/l	100
89) n-Butylbenzene	12.329	91	105264	19.460 ug/l	99
90) Hexachloroethane	12.536	117	17762	18.915 ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	65345	19.126 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8581	16.383 ug/l	89
93) 1,2,4-Trichlorobenzene	13.585	180	36071	19.257 ug/l	99
94) Hexachlorobutadiene	13.725	225	15287	20.290 ug/l	95
95) Naphthalene	13.774	128	141260	19.320 ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	40477	20.374 ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044379.D
Acq On : 18 Dec 2024 13:38
Operator : JC/MD
Sample : VX1218WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 00:44:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

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\VX121824\
Data File : VX044379.D
Acq On : 18 Dec 2024 13:38
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Quant Time: Dec 19 00:44:07 2024
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Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations APPROVED

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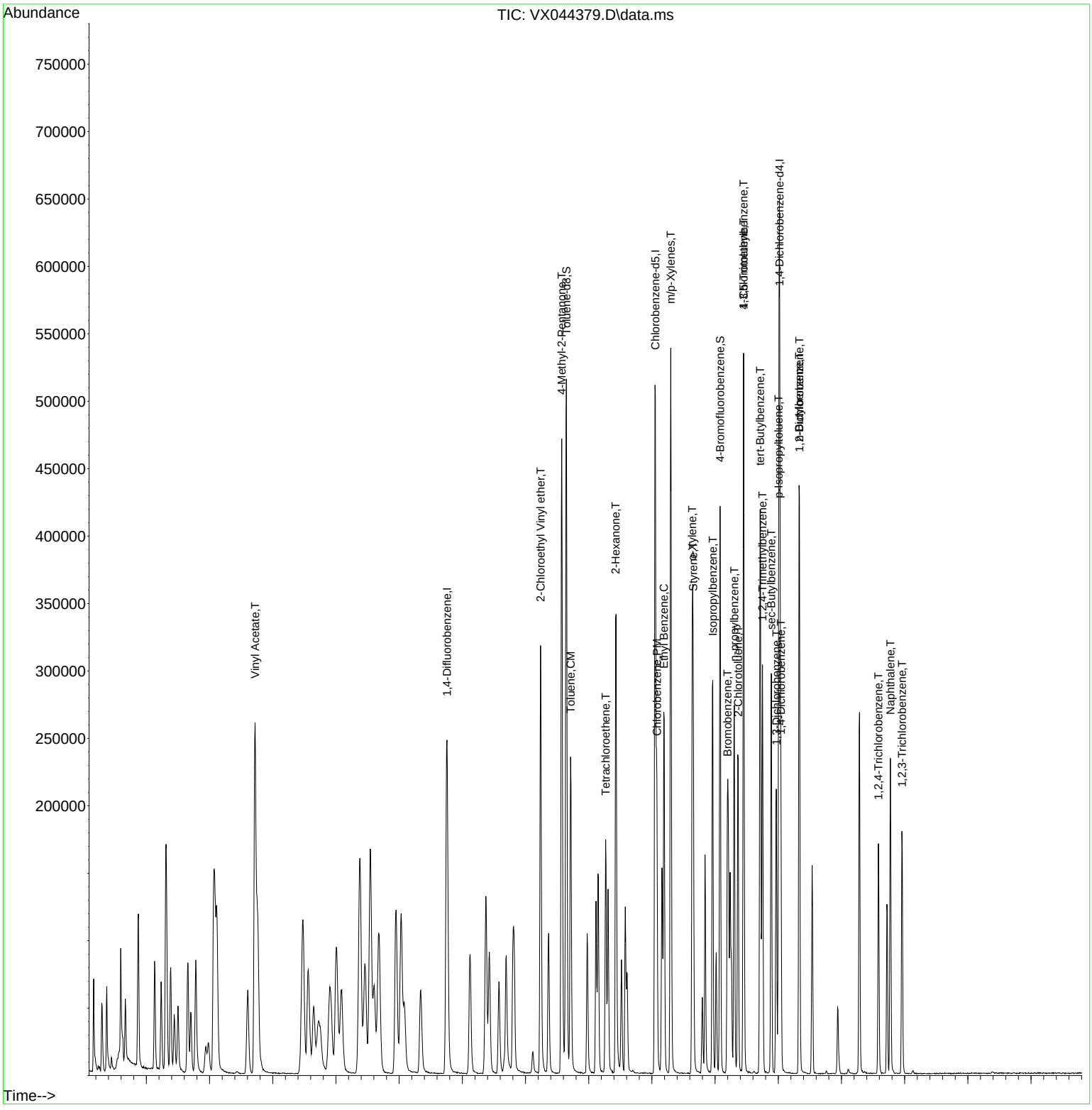
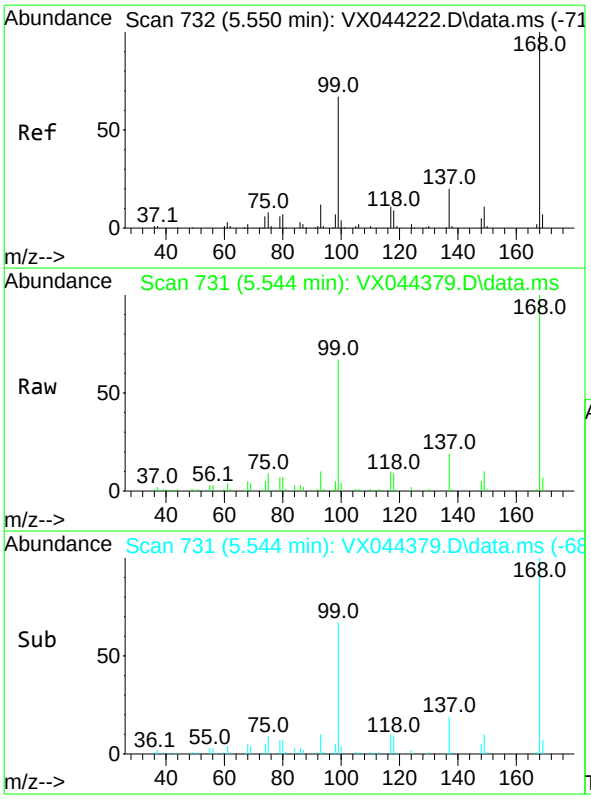
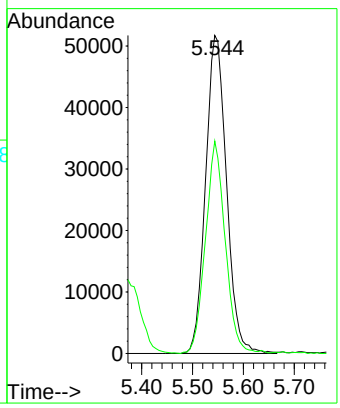




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:168 Resp: 147797

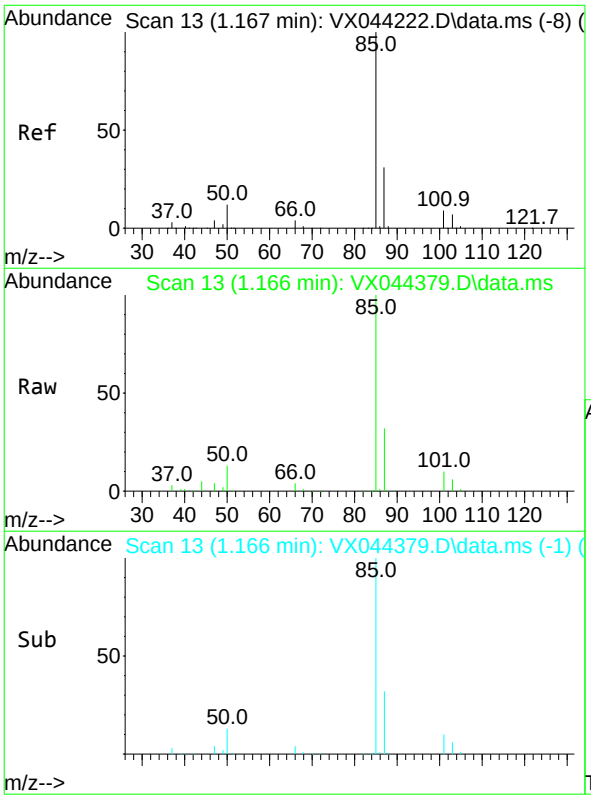
Ion	Ratio	Lower	Upper
168	100		
99	66.7	53.4	80.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations
APPROVED

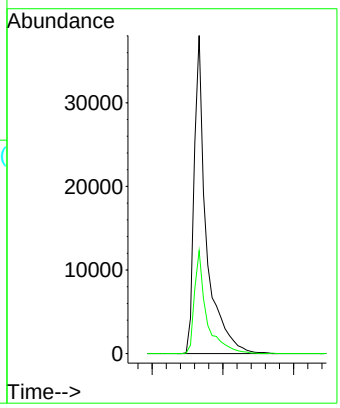
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

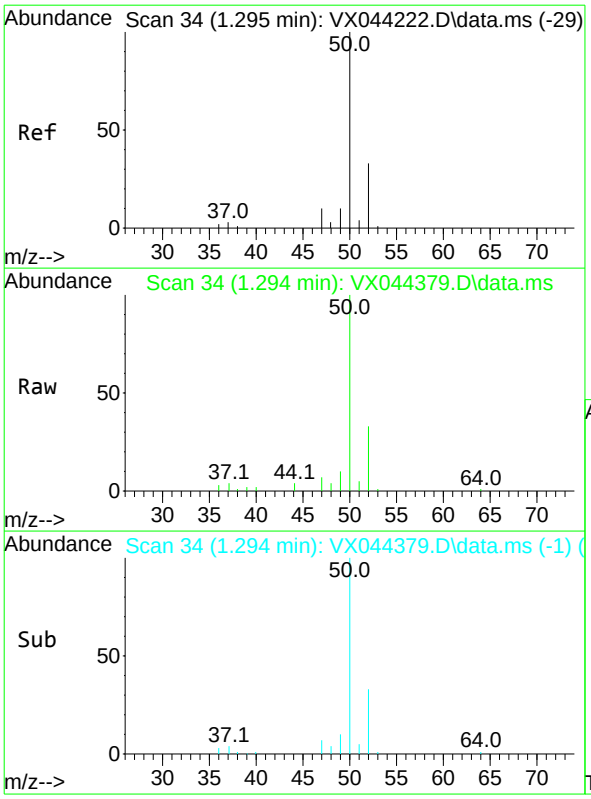


#2
Dichlorodifluoromethane
Concen: 19.801 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 85 Resp: 45251

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.4	46.4

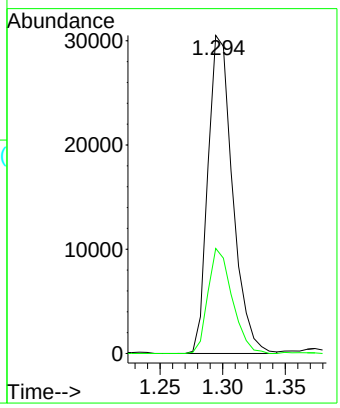




#3
Chloromethane
Concen: 19.108 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 50 Resp: 41759

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/20/2024
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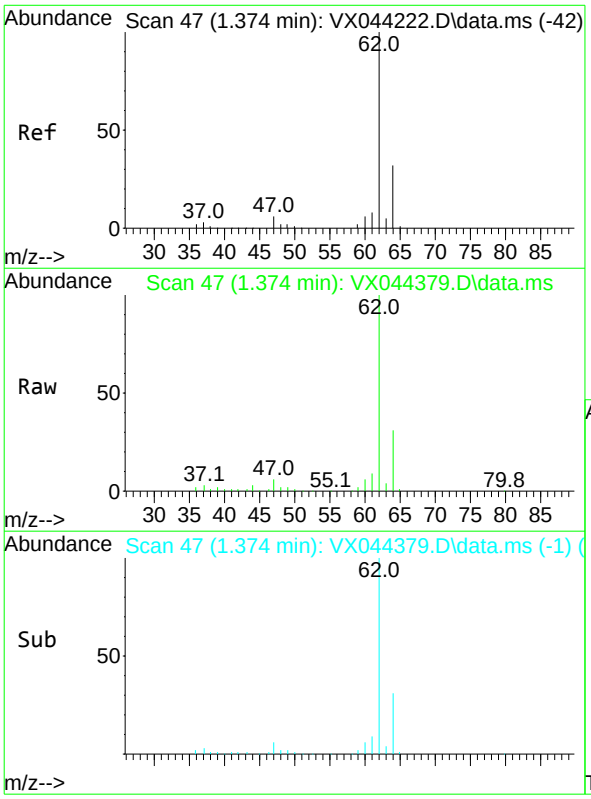
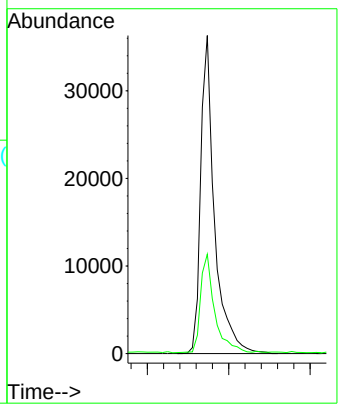
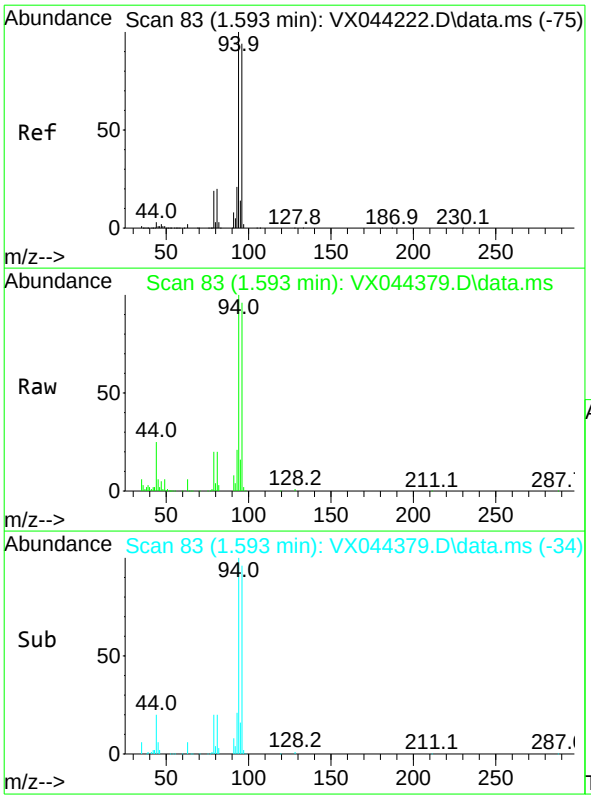


#4
Vinyl Chloride
Concen: 18.793 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 62 Resp: 42787

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.7	38.5

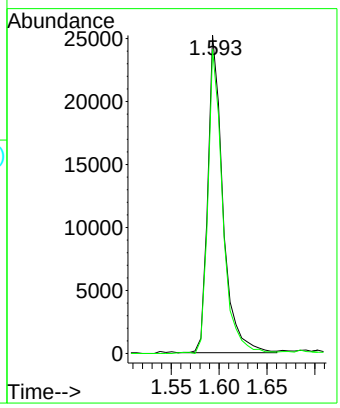




#5
Bromomethane
Concen: 17.102 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 94 Resp: 27623

Ion	Ratio	Lower	Upper
94	100		
96	95.6	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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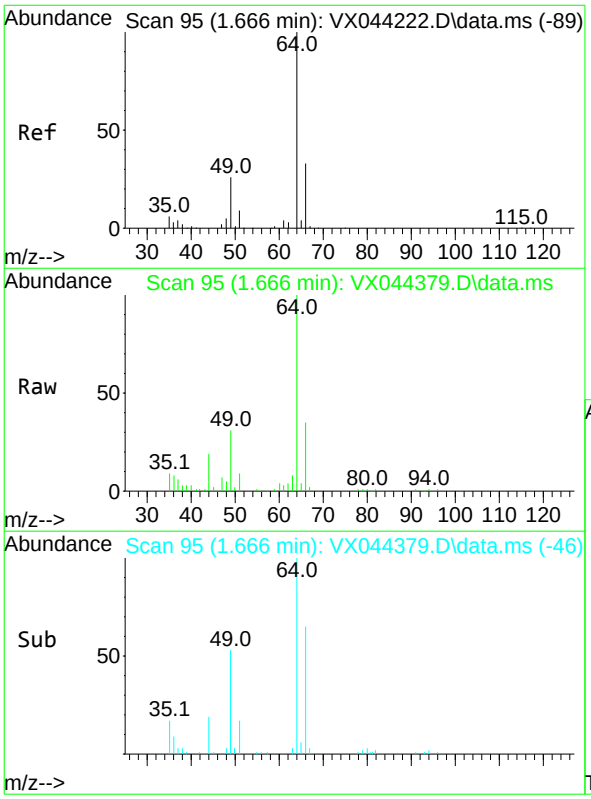
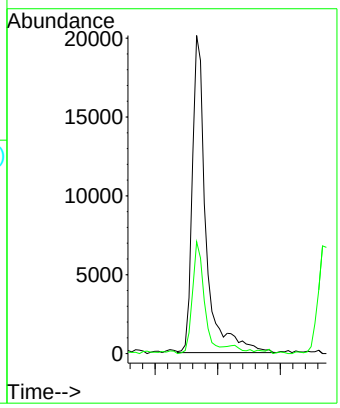
Supervised By :Mahesh Dadoda 12/20/2024

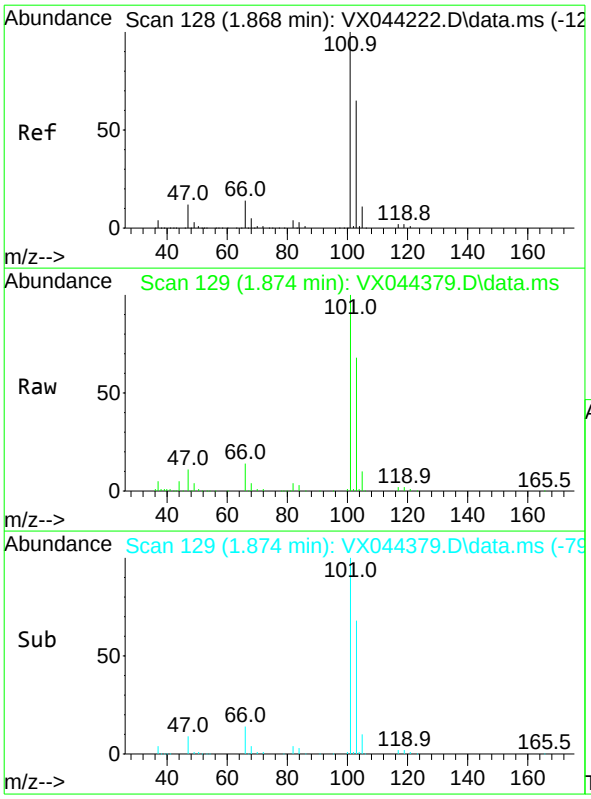


#6
Chloroethane
Concen: 21.628 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 64 Resp: 30662

Ion	Ratio	Lower	Upper
64	100		
66	35.3	26.6	39.8

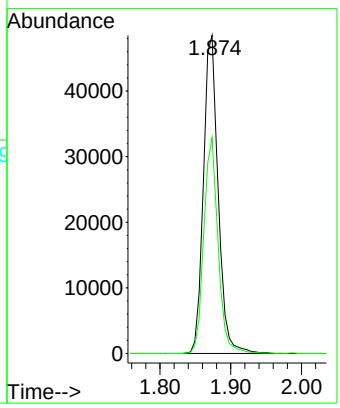




#7
Trichlorofluoromethane
Concen: 15.756 ug/l
RT: 1.874 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:101 Resp: 70228

Ion	Ratio	Lower	Upper
101	100		
103	67.9	51.8	77.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations
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Reviewed By :John Carlone 12/20/2024
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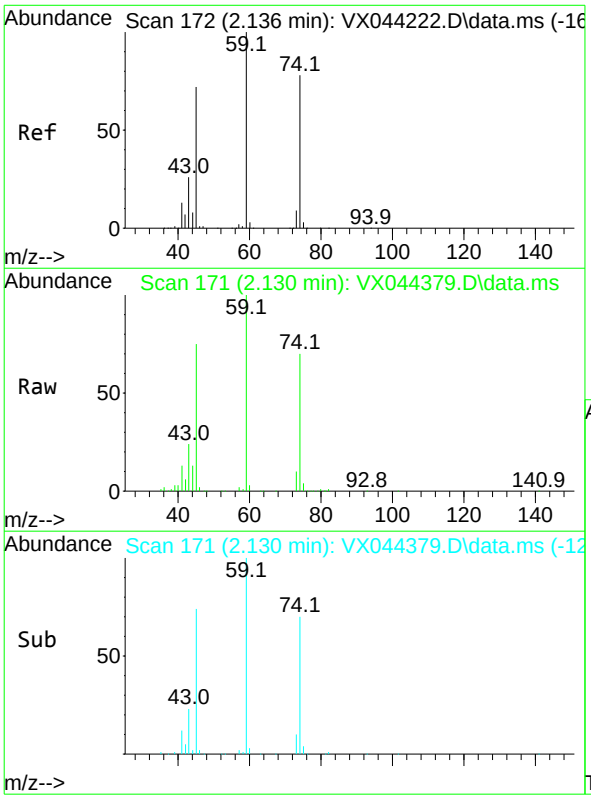
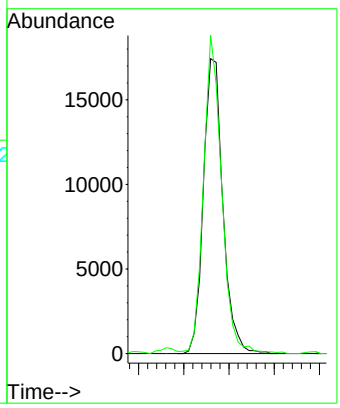
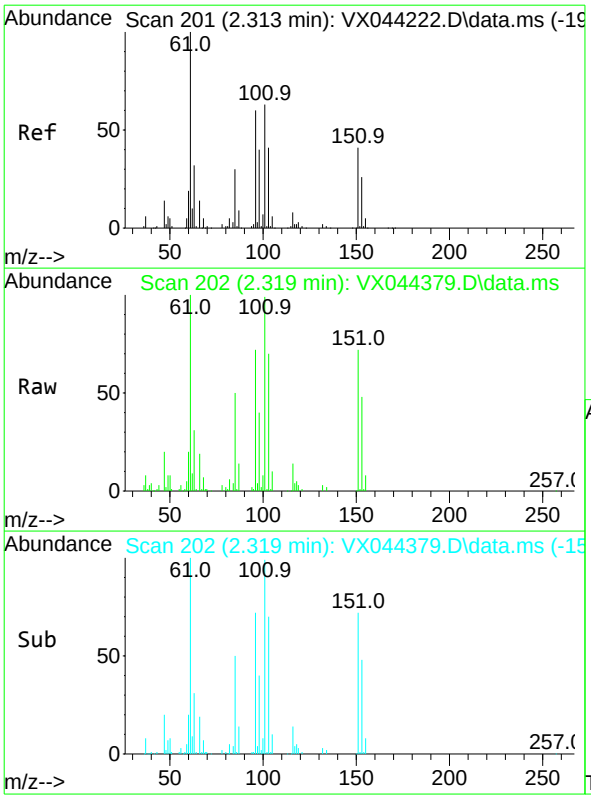


#8
Diethyl Ether
Concen: 17.160 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 74 Resp: 26108

Ion	Ratio	Lower	Upper
74	100		
45	100.9	48.4	145.0

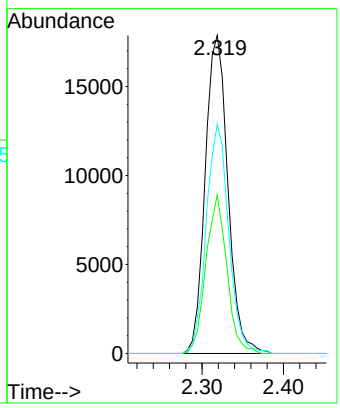




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.183 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:101 Resp: 34599

Ion	Ratio	Lower	Upper
101	100		
85	46.2	38.5	57.7
151	71.8	55.8	83.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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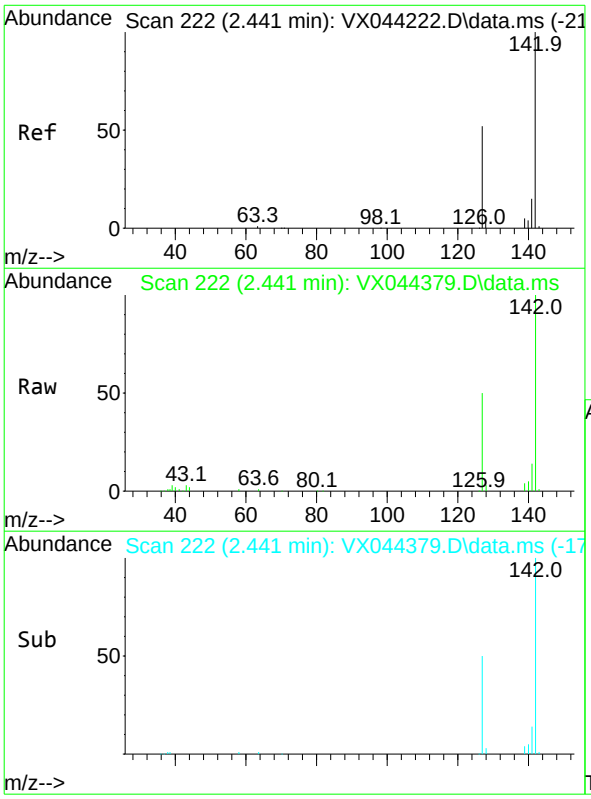
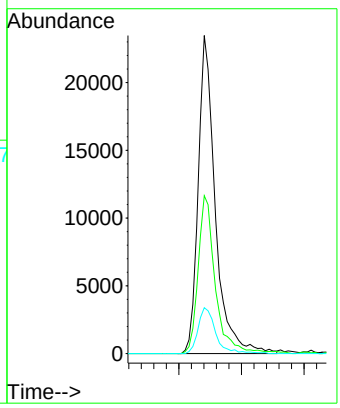
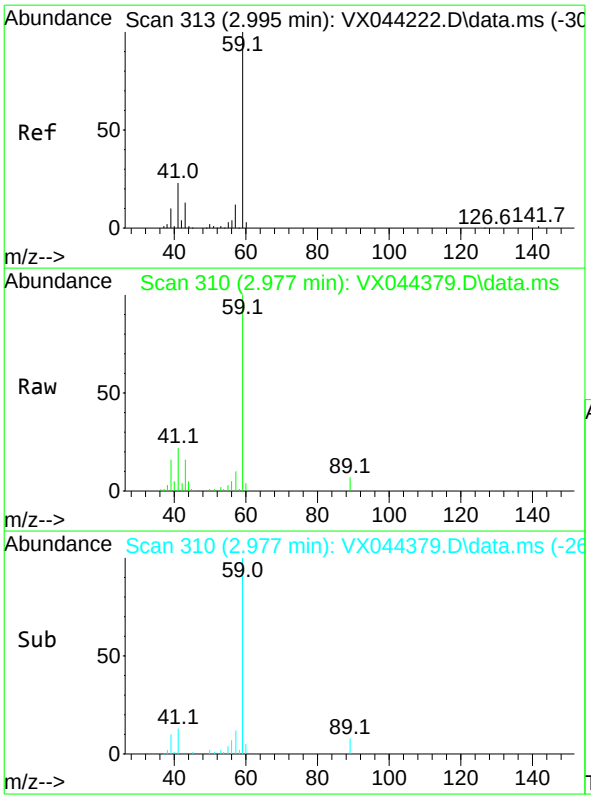


#10
Methyl Iodide
Concen: 18.705 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:142 Resp: 44464

Ion	Ratio	Lower	Upper
142	100		
127	50.2	41.8	62.8
141	14.9	11.5	17.3

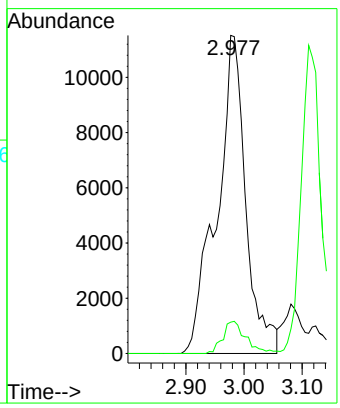




#11
Tert butyl alcohol
Concen: 108.982 ug/l
RT: 2.977 min Scan# 31
Delta R.T. -0.018 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 59 Resp: 39802

Ion	Ratio	Lower	Upper
59	100		
57	8.2	8.8	13.2#



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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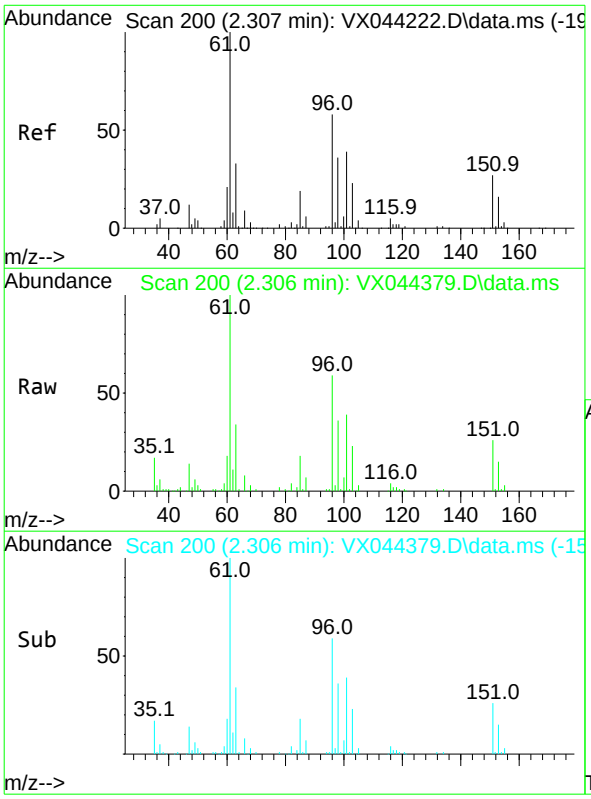
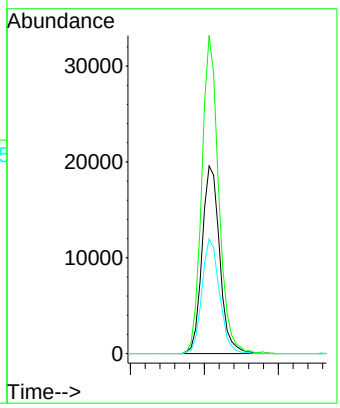
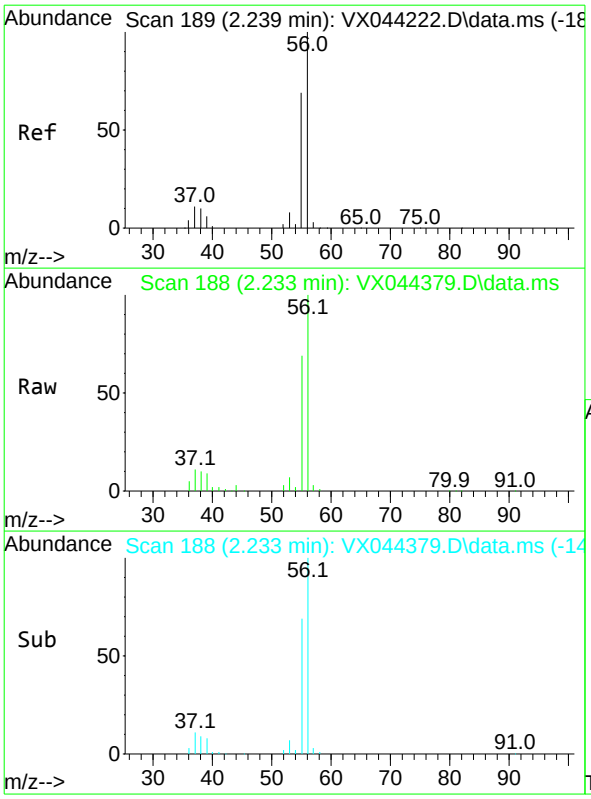


#12
1,1-Dichloroethene
Concen: 19.584 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 96 Resp: 32443

Ion	Ratio	Lower	Upper
96	100		
61	169.5	138.0	207.0
98	61.1	50.0	75.0

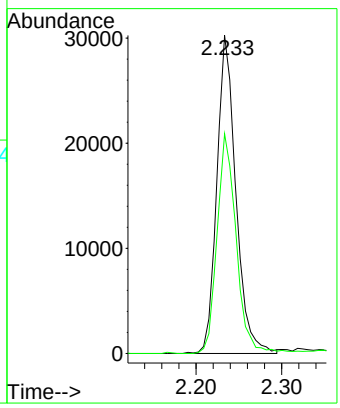




#13
Acrolein
Concen: 88.423 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 56 Resp: 46746

Ion	Ratio	Lower	Upper
56	100		
55	69.4	56.6	84.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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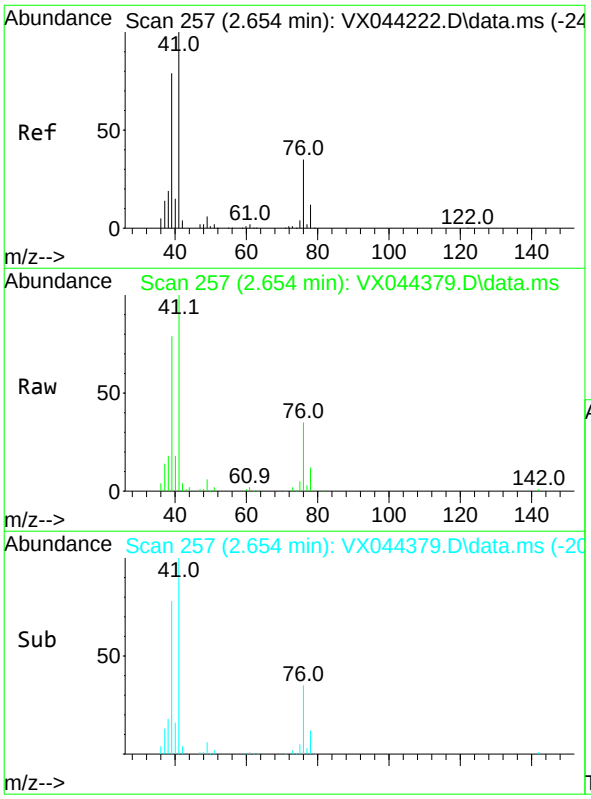
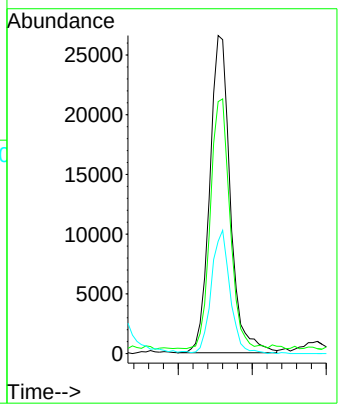
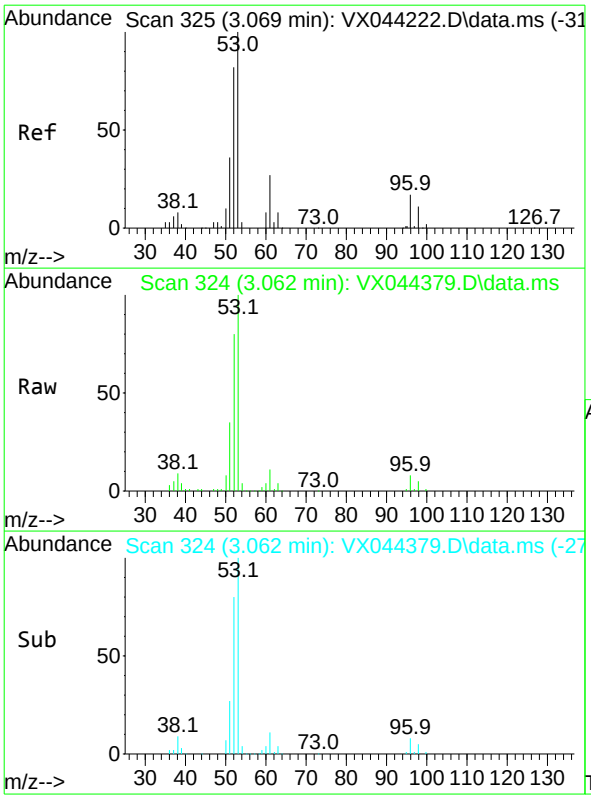


#14
Allyl chloride
Concen: 18.626 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 41 Resp: 51394

Ion	Ratio	Lower	Upper
41	100		
39	74.6	61.9	92.9
76	35.2	27.4	41.2

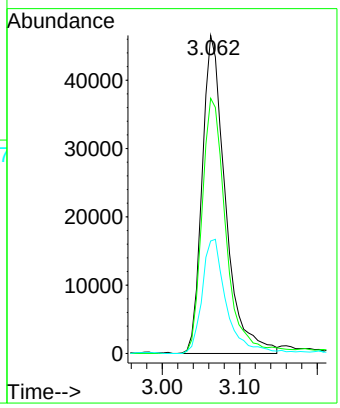




#15
Acrylonitrile
Concen: 96.053 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 53 Resp: 97173

Ion	Ratio	Lower	Upper
53	100		
52	82.5	67.4	101.0
51	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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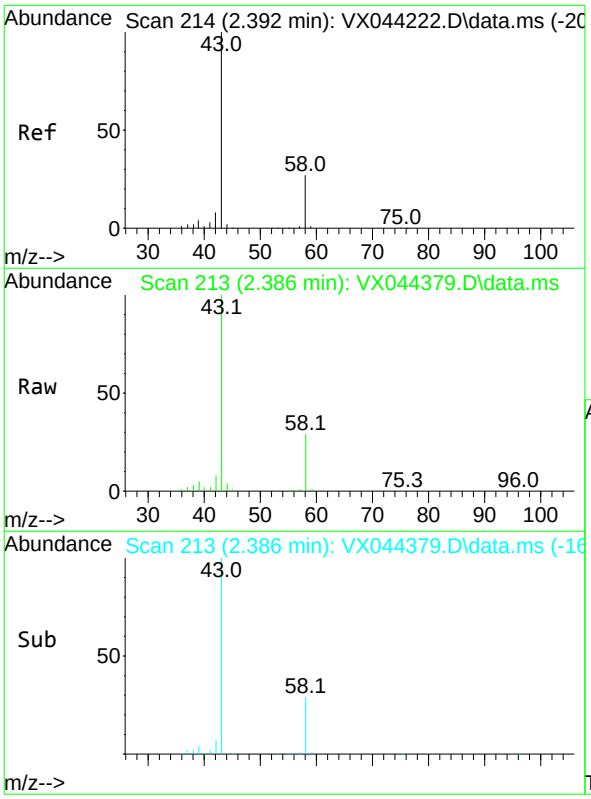
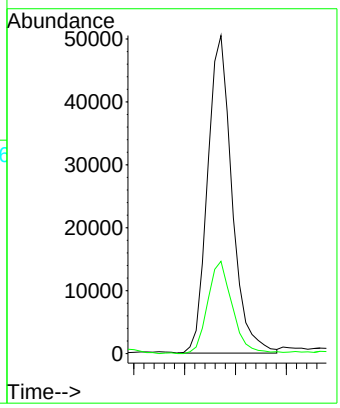
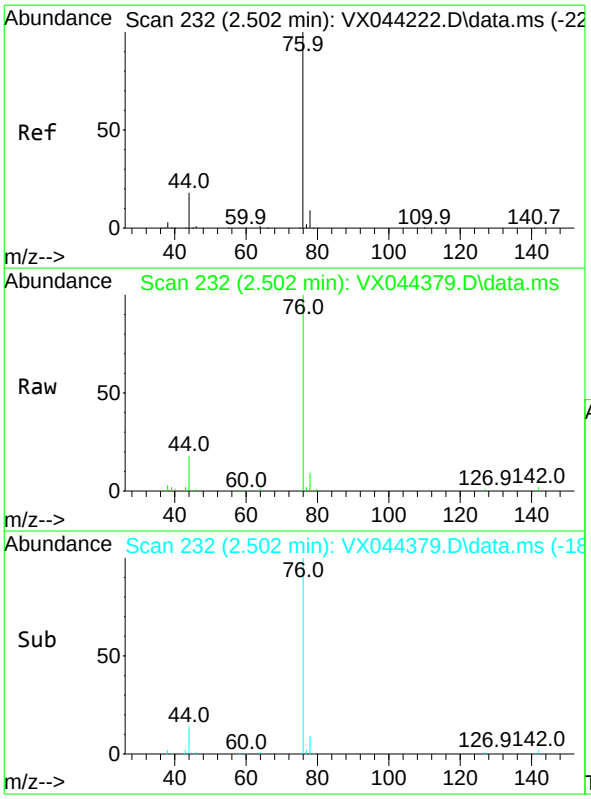


#16
Acetone
Concen: 79.609 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 84104

Ion	Ratio	Lower	Upper
43	100		
58	29.1	21.6	32.4

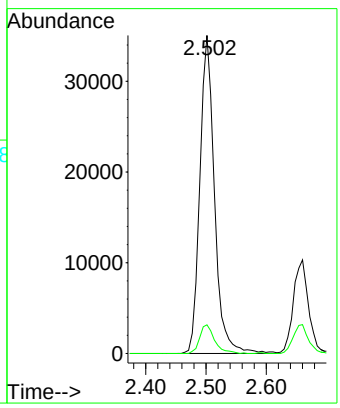




#17
Carbon Disulfide
Concen: 18.772 ug/l
RT: 2.502 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 76 Resp: 59114

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0



Instrument :
MSVOA_X
ClientSampleId :
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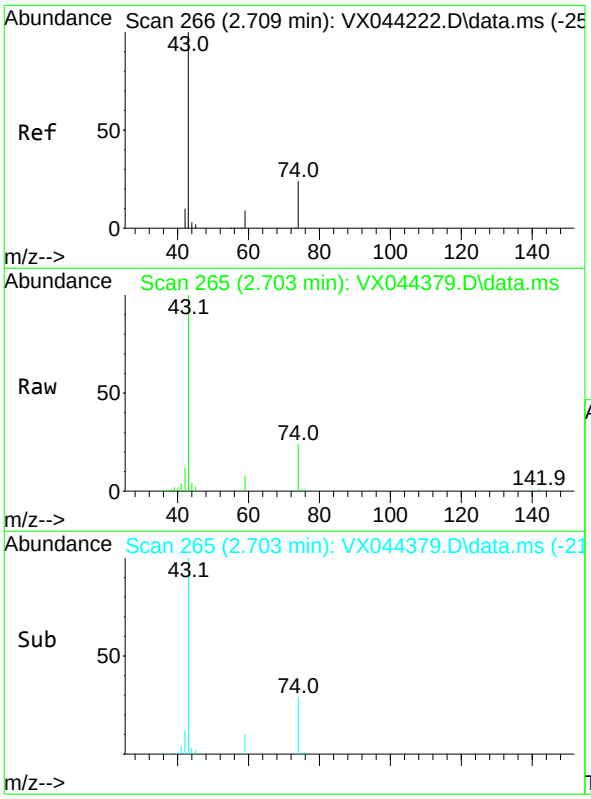
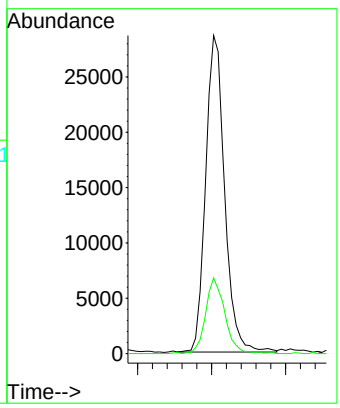
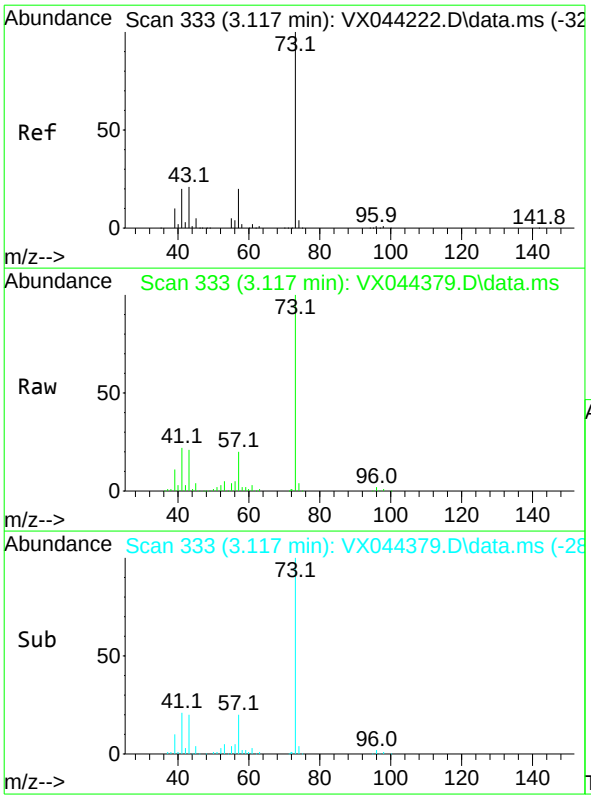


#18
Methyl Acetate
Concen: 18.683 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 50892

Ion	Ratio	Lower	Upper
43	100		
74	24.2	17.7	26.5

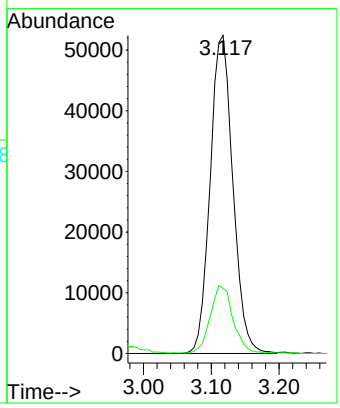




#19
Methyl tert-butyl Ether
Concen: 18.886 ug/l
RT: 3.117 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 73 Resp: 122090

Ion	Ratio	Lower	Upper
73	100		
57	20.3	16.2	24.4



Instrument :
MSVOA_X
ClientSampleId :
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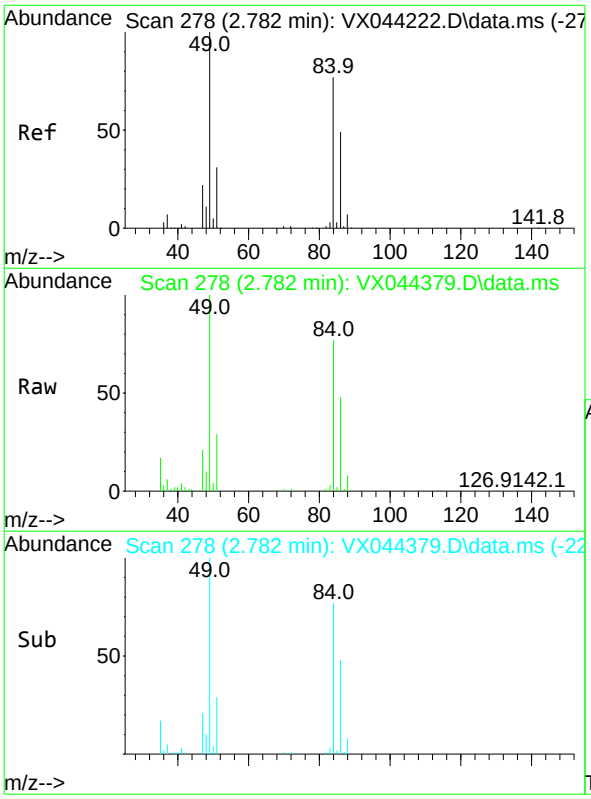
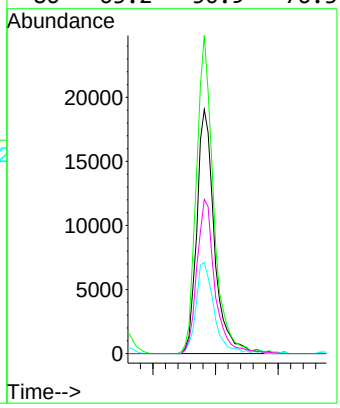
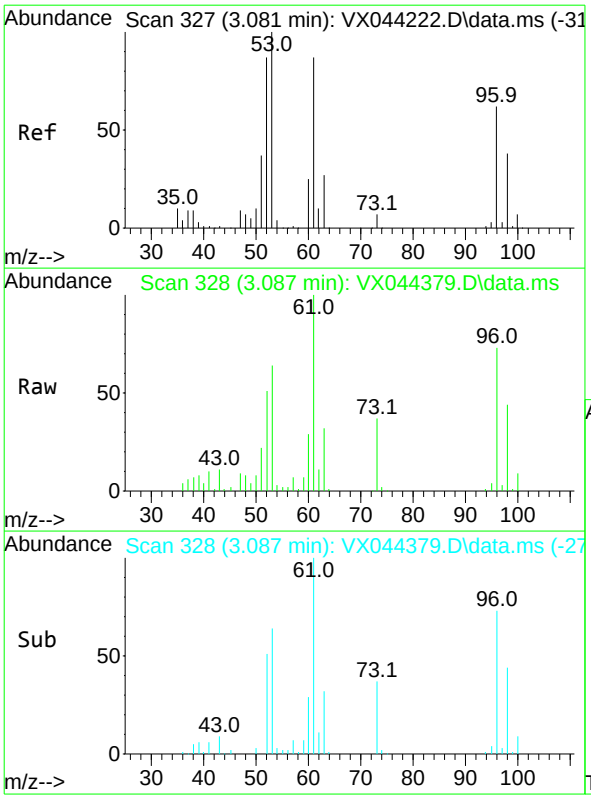


#20
Methylene Chloride
Concen: 18.799 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 84 Resp: 37302

Ion	Ratio	Lower	Upper
84	100		
49	130.3	104.2	156.4
51	37.4	32.2	48.4
86	63.2	50.9	76.3

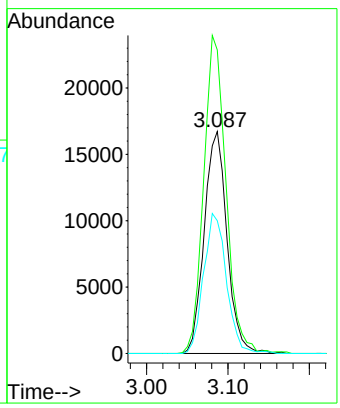




#21
trans-1,2-Dichloroethene
Concen: 18.472 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 96 Resp: 32522

Ion	Ratio	Lower	Upper
96	100		
61	136.7	112.0	168.0
98	59.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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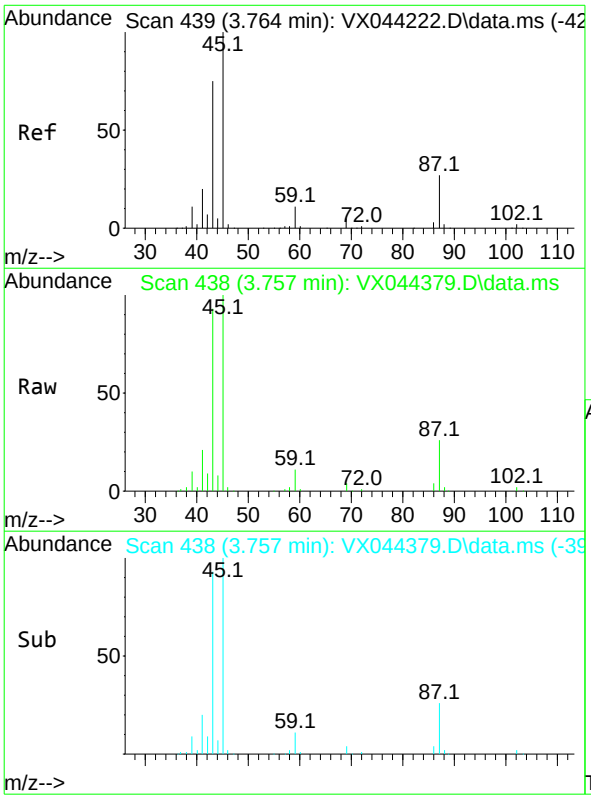
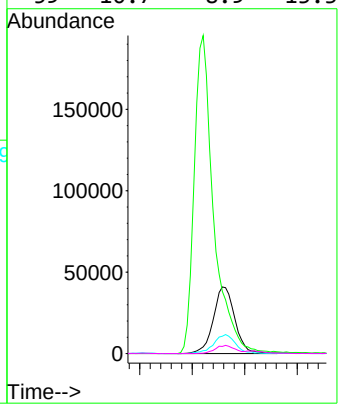
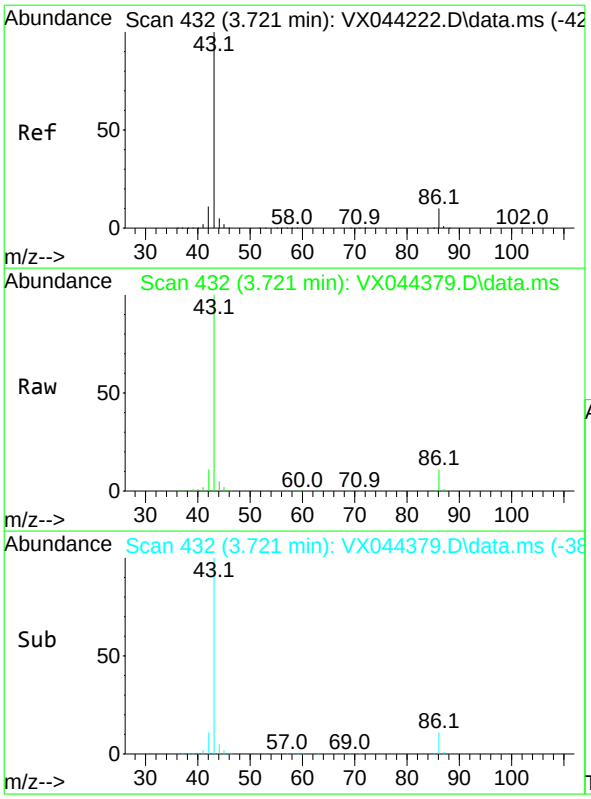


#22
Diisopropyl ether
Concen: 18.743 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 45 Resp: 116460

Ion	Ratio	Lower	Upper
45	100		
43	93.2	60.2	90.2#
87	26.1	21.2	31.8
59	10.7	8.9	13.3

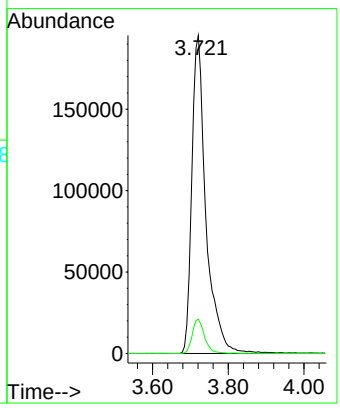




#23
Vinyl Acetate
Concen: 100.283 ug/l
RT: 3.721 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 506590

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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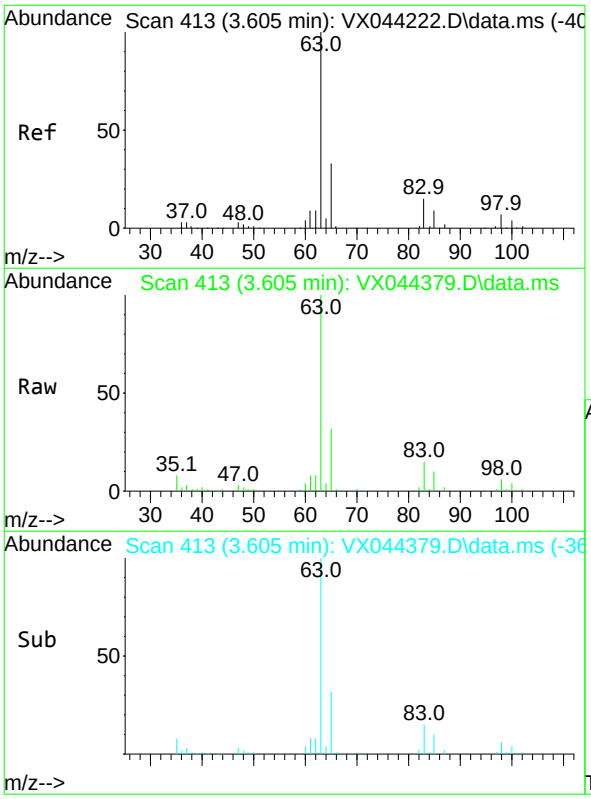
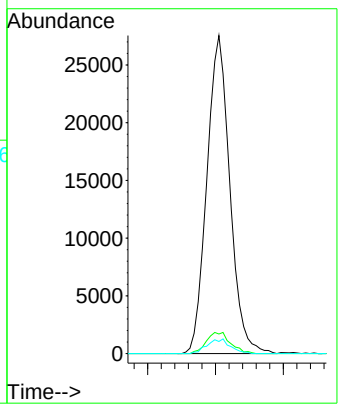
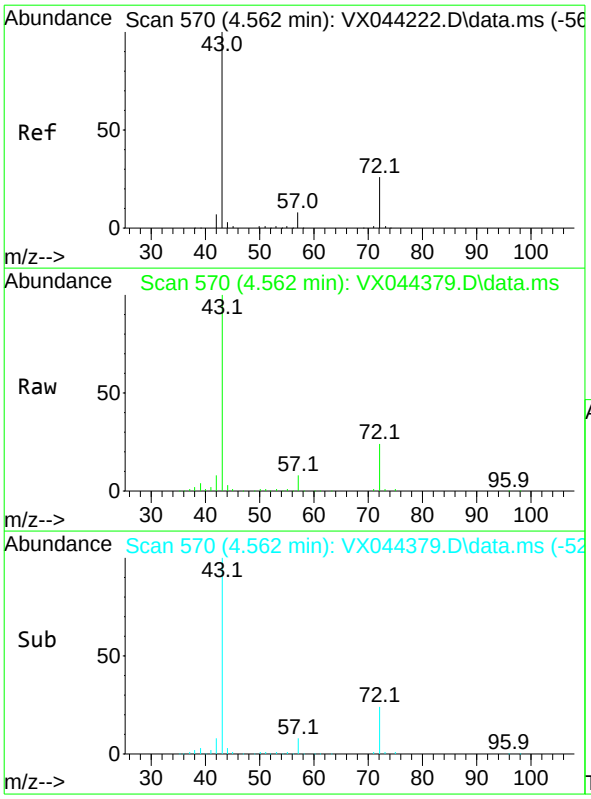


#24
1,1-Dichloroethane
Concen: 18.743 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 63 Resp: 64917

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.6	10.8
100	3.8	2.1	6.3

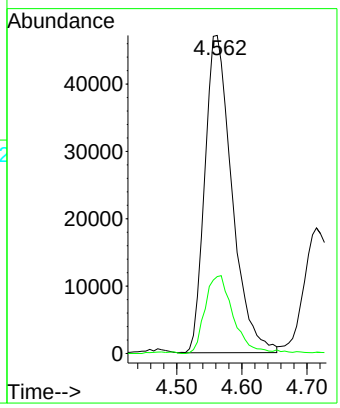




#25
2-Butanone
Concen: 90.894 ug/l
RT: 4.562 min Scan# 57
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 136514

Ion	Ratio	Lower	Upper
43	100		
72	24.0	20.2	30.4



Instrument :
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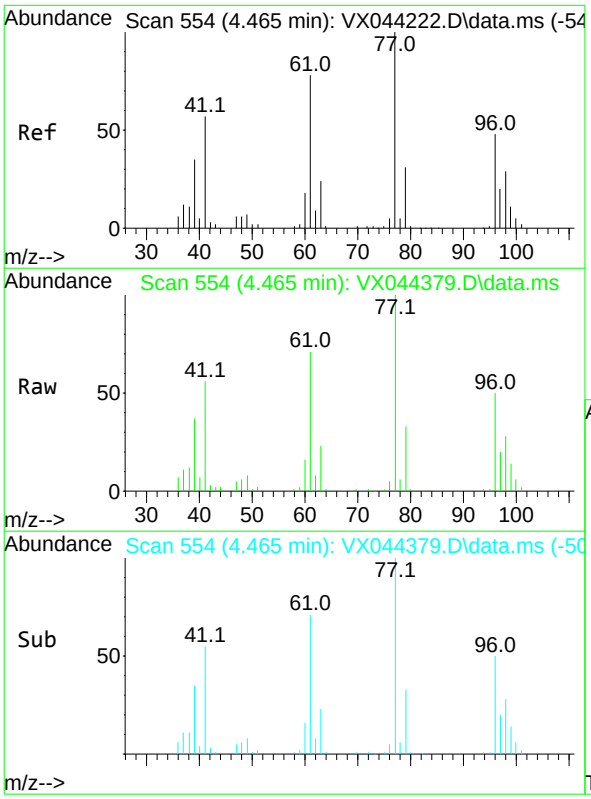
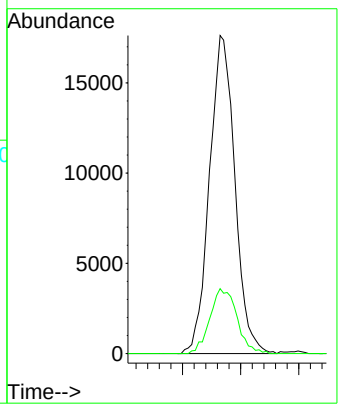
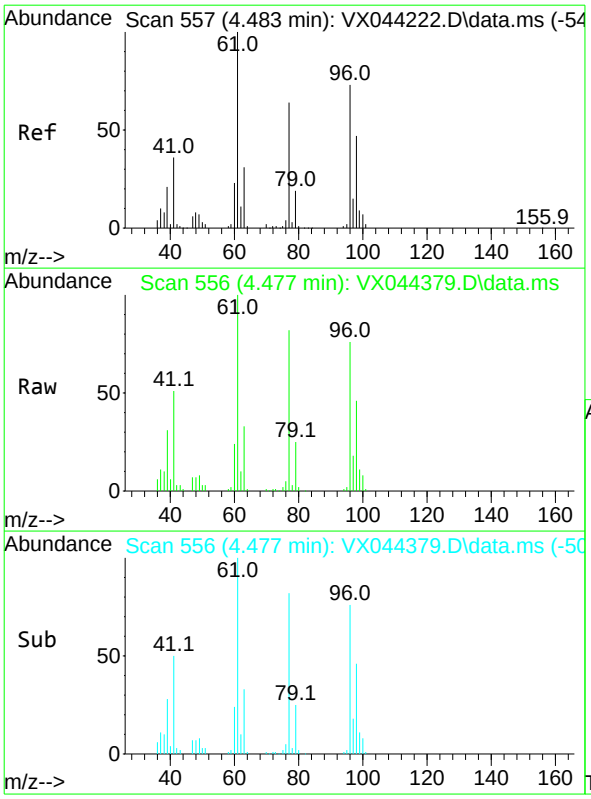


#26
2,2-Dichloropropane
Concen: 19.012 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 77 Resp: 53495

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.7	32.1

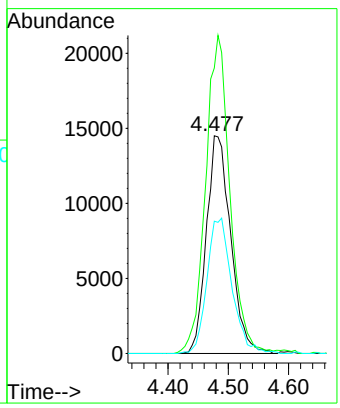




#27
cis-1,2-Dichloroethene
Concen: 18.171 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 96 Resp: 40632

Ion	Ratio	Lower	Upper
96	100		
61	146.0	0.0	299.0
98	63.8	0.0	129.0



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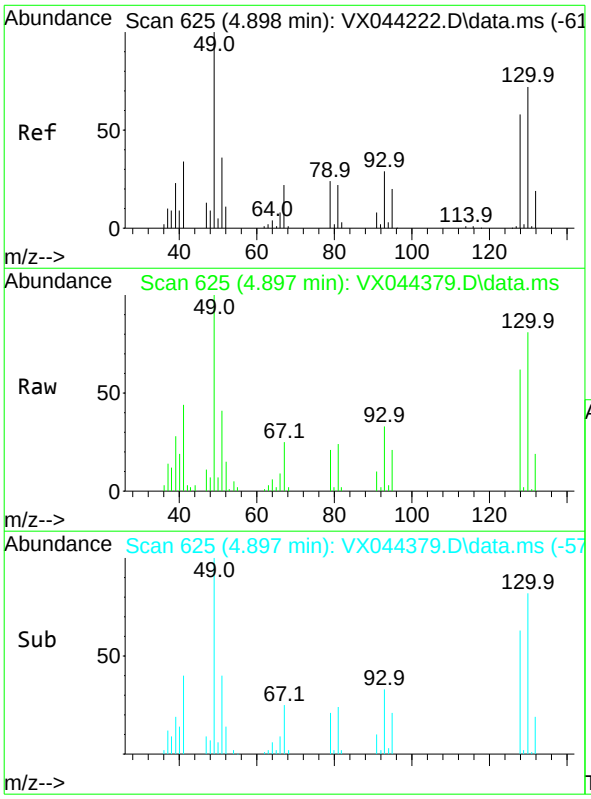
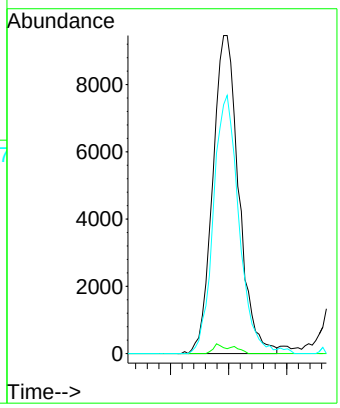
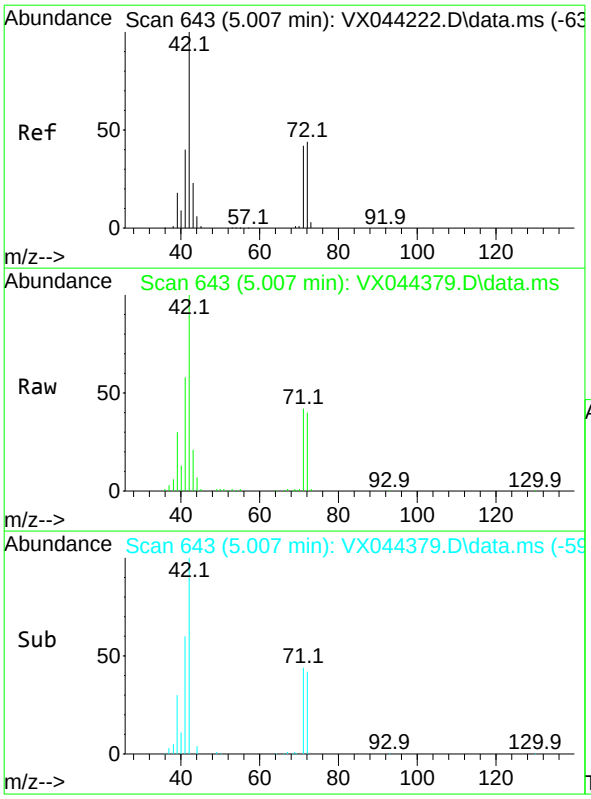


#28
Bromochloromethane
Concen: 17.353 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 49 Resp: 29472

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.2
130	79.4	62.1	93.1

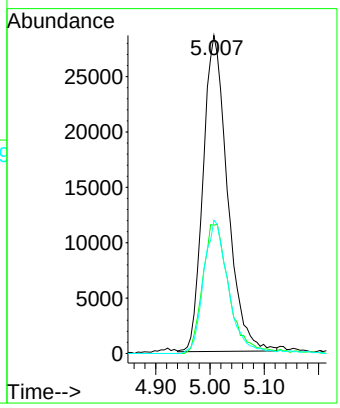




#29
Tetrahydrofuran
Concen: 92.701 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 42 Resp: 89366

Ion	Ratio	Lower	Upper
42	100		
72	44.0	37.0	55.6
71	42.5	33.6	50.4



Instrument :
MSVOA_X
ClientSampleId :
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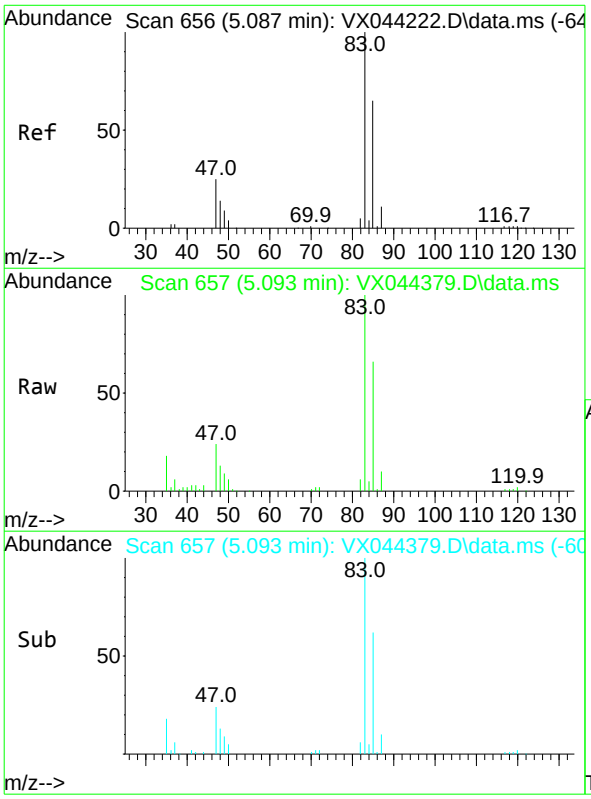
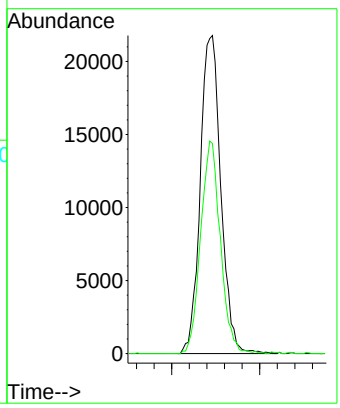
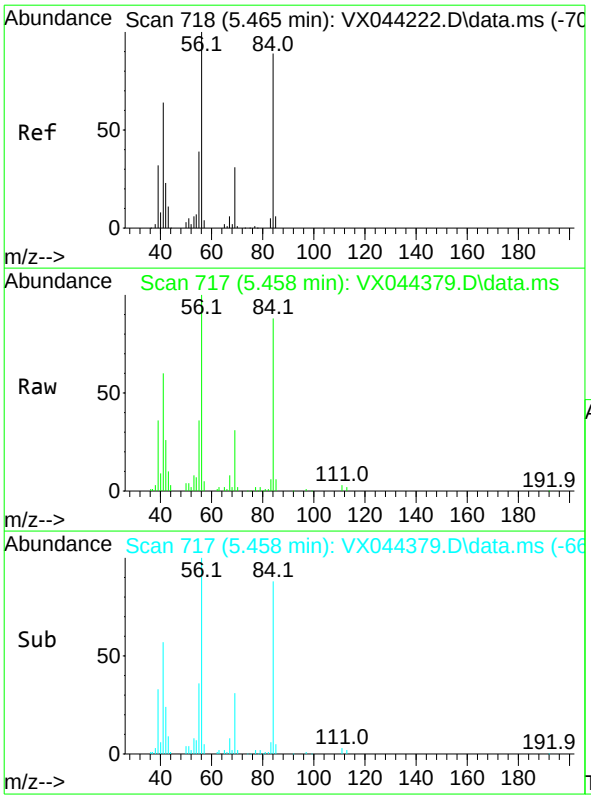


#30
Chloroform
Concen: 18.201 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 83 Resp: 70829

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.6	77.4

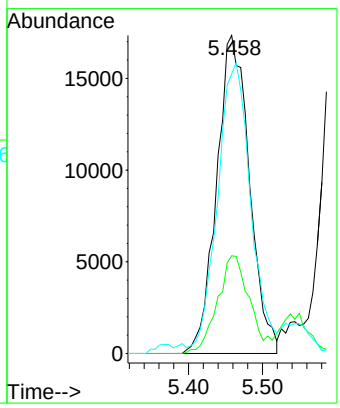




#31
Cyclohexane
Concen: 19.049 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 56 Resp: 53278

Ion	Ratio	Lower	Upper
56	100		
69	30.7	24.7	37.1
84	85.5	71.0	106.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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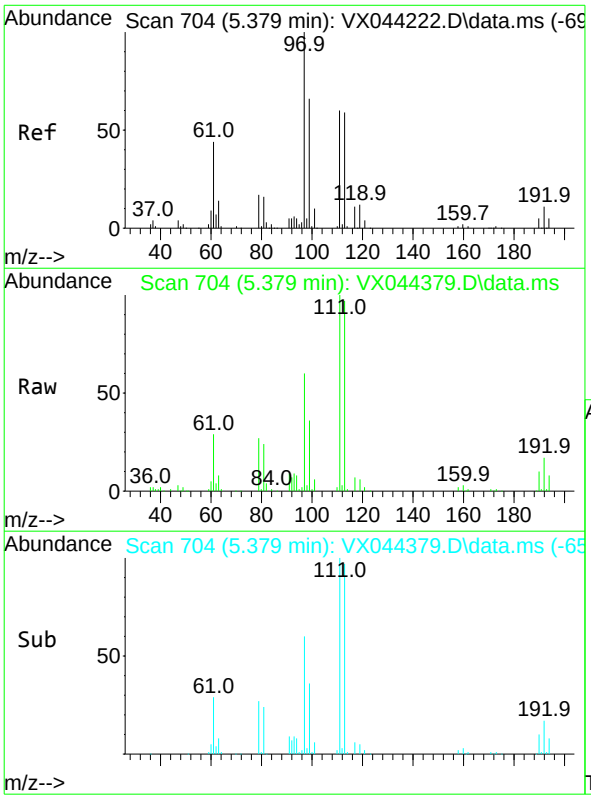
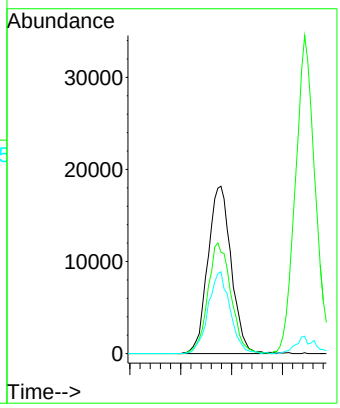
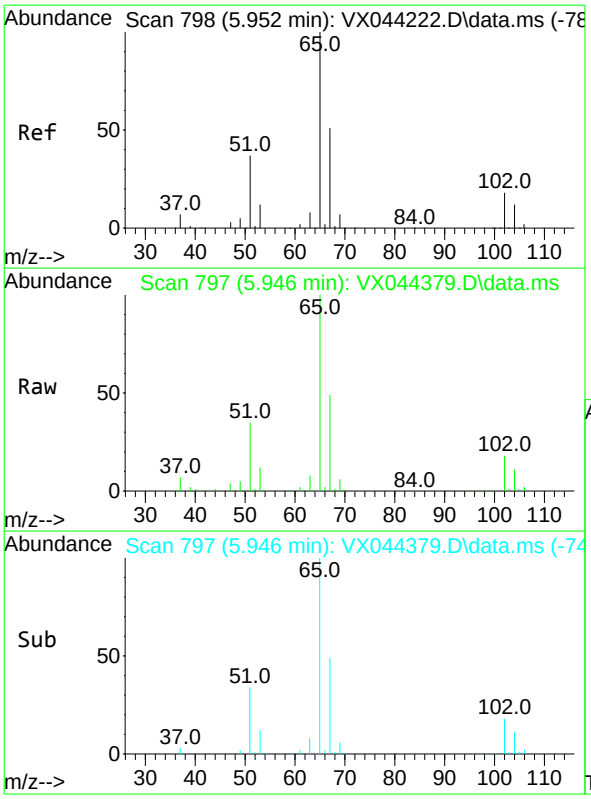


#32
1,1,1-Trichloroethane
Concen: 18.000 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 97 Resp: 58144

Ion	Ratio	Lower	Upper
97	100		
99	64.9	50.8	76.2
61	45.6	35.2	52.8

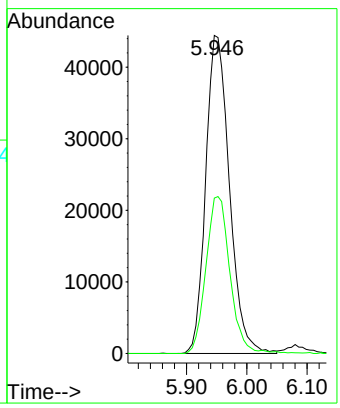




#33
1,2-Dichloroethane-d4
Concen: 46.783 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 65 Resp: 121233

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	101.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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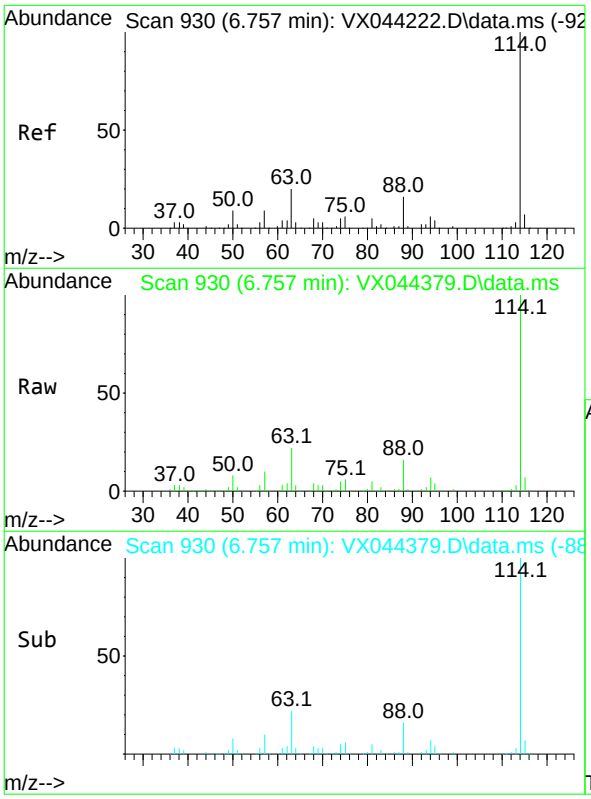
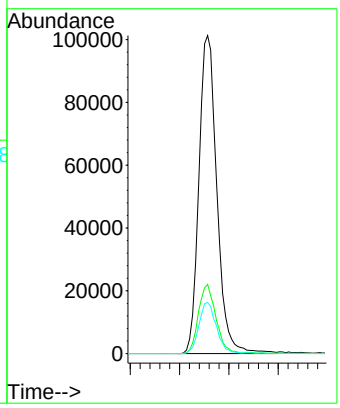
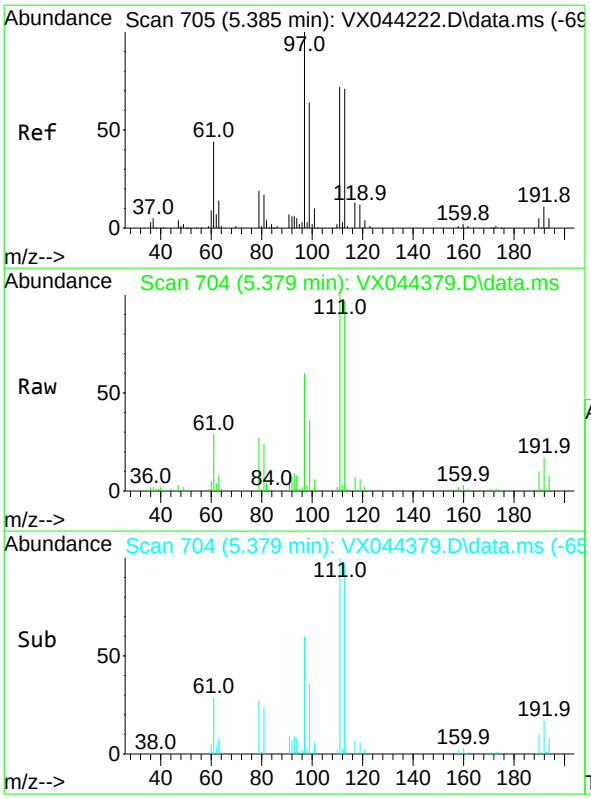


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:114 Resp: 256001

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	40.6
88	16.1	0.0	31.8

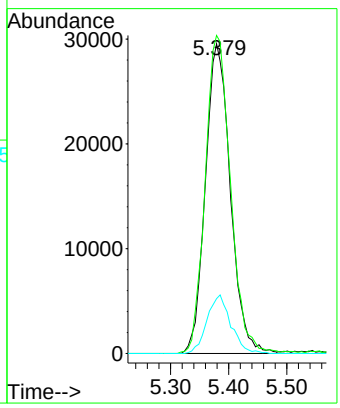




#35
Dibromofluoromethane
Concen: 49.670 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:113 Resp: 88067

Ion	Ratio	Lower	Upper
113	100		
111	103.9	80.4	120.6
192	18.1	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
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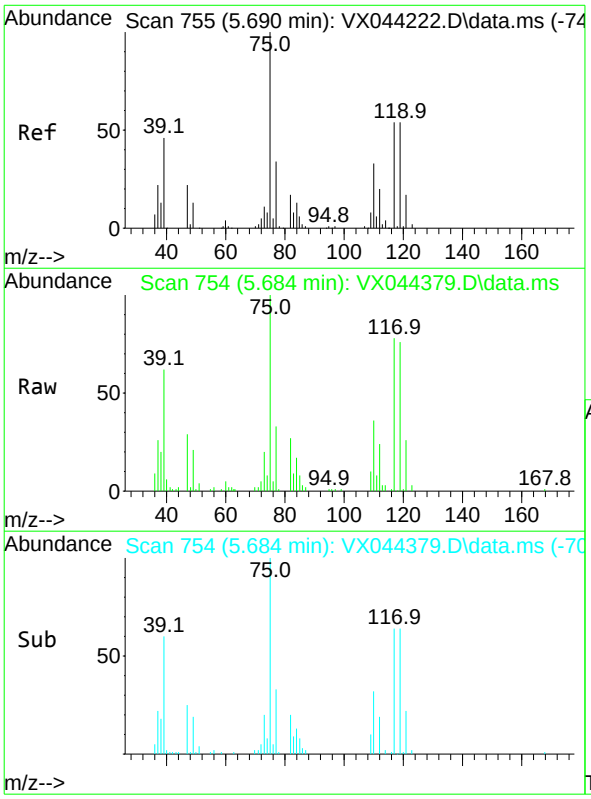
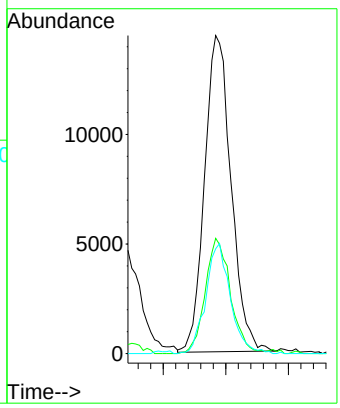
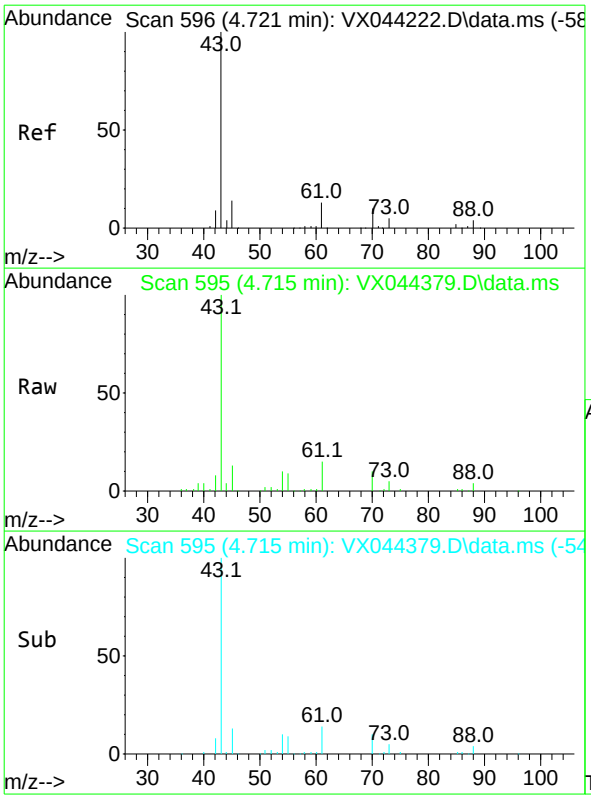


#36
1,1-Dichloropropene
Concen: 18.548 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 42509

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.3	51.7
77	32.2	25.4	38.0

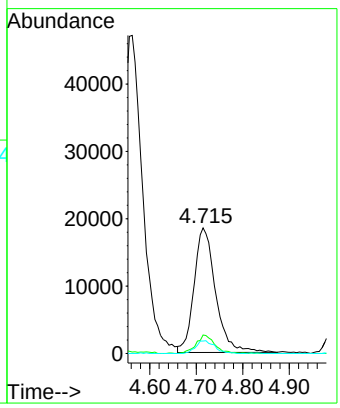




#37
Ethyl Acetate
Concen: 20.982 ug/l
RT: 4.715 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 59443

Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.8	14.8
70	9.0	7.7	11.5



Instrument :
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ClientSampleId :
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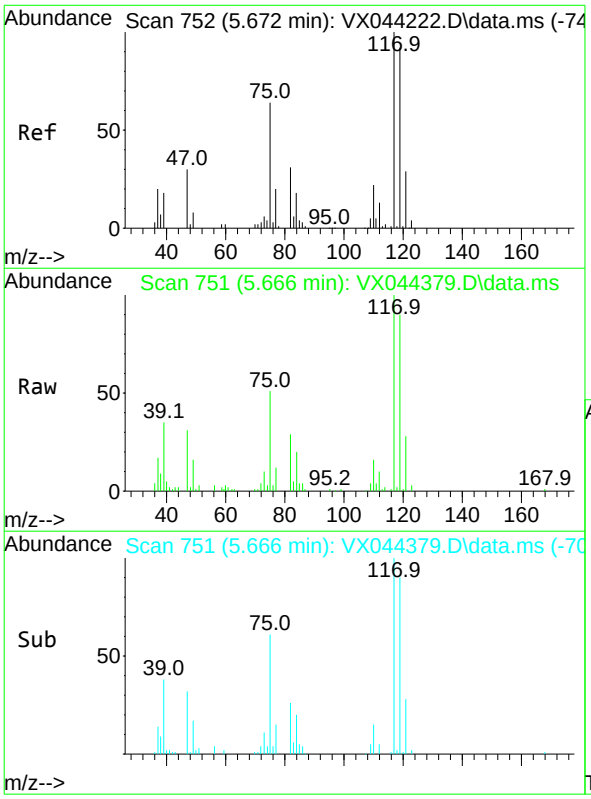
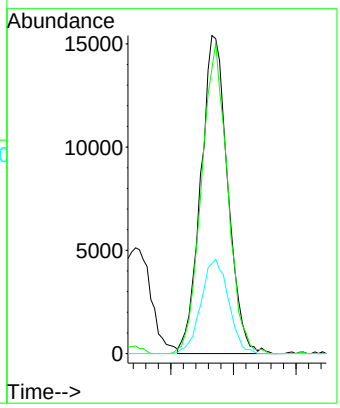
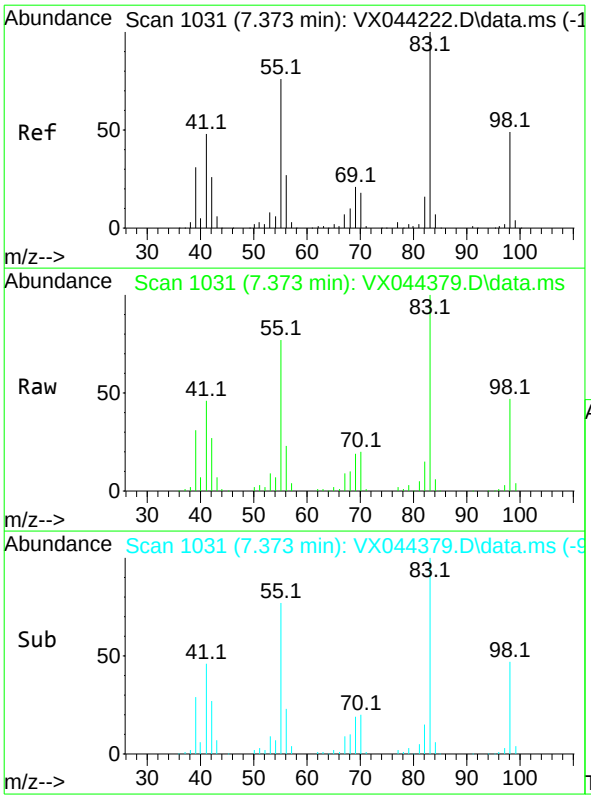


#38
Carbon Tetrachloride
Concen: 18.667 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:117 Resp: 46061

Ion	Ratio	Lower	Upper
117	100		
119	89.6	74.2	111.4
121	28.3	23.0	34.6

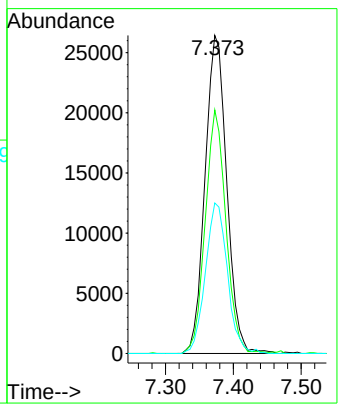




#39
Methylcyclohexane
Concen: 21.483 ug/l
RT: 7.373 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 83 Resp: 58860

Ion	Ratio	Lower	Upper
83	100		
55	76.6	60.7	91.1
98	47.3	38.9	58.3



Instrument :
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ClientSampleId :
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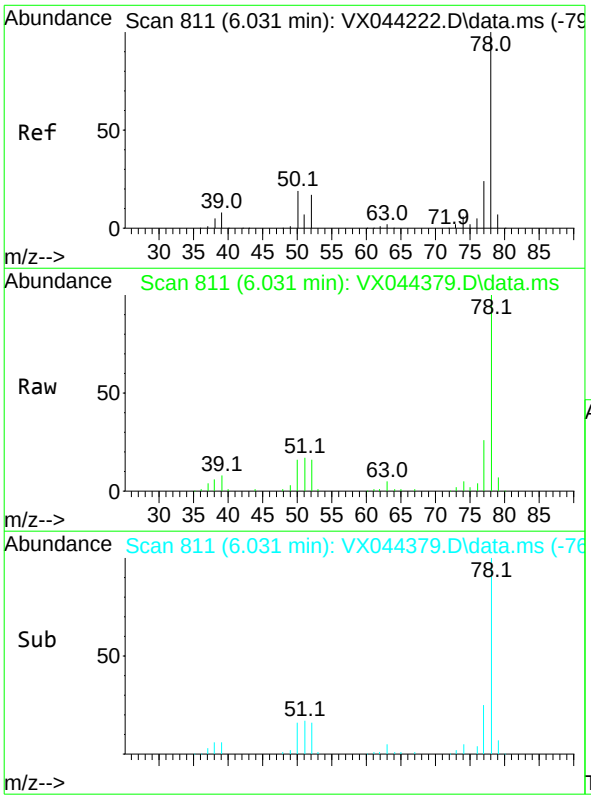
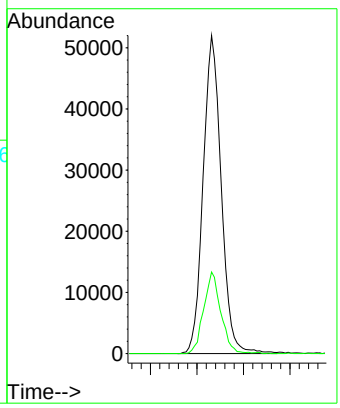
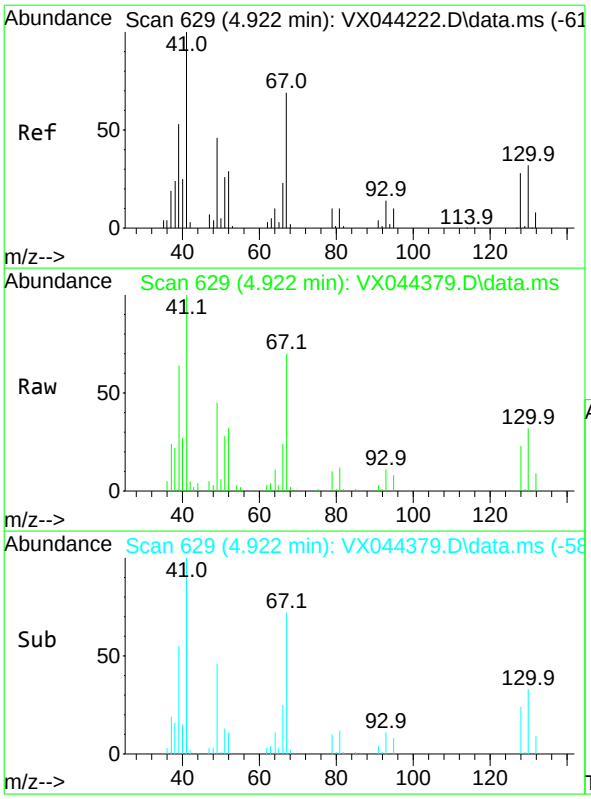


#40
Benzene
Concen: 20.216 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 78 Resp: 140673

Ion	Ratio	Lower	Upper
78	100		
77	25.6	19.3	28.9

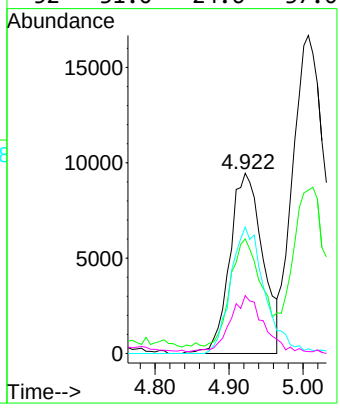




#41
Methacrylonitrile
Concen: 19.444 ug/l
RT: 4.922 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 41 Resp: 29251

Ion	Ratio	Lower	Upper
41	100		
39	59.2	44.2	66.4
67	73.1	57.2	85.8
52	31.0	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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Reviewed By :John Carlone 12/20/2024
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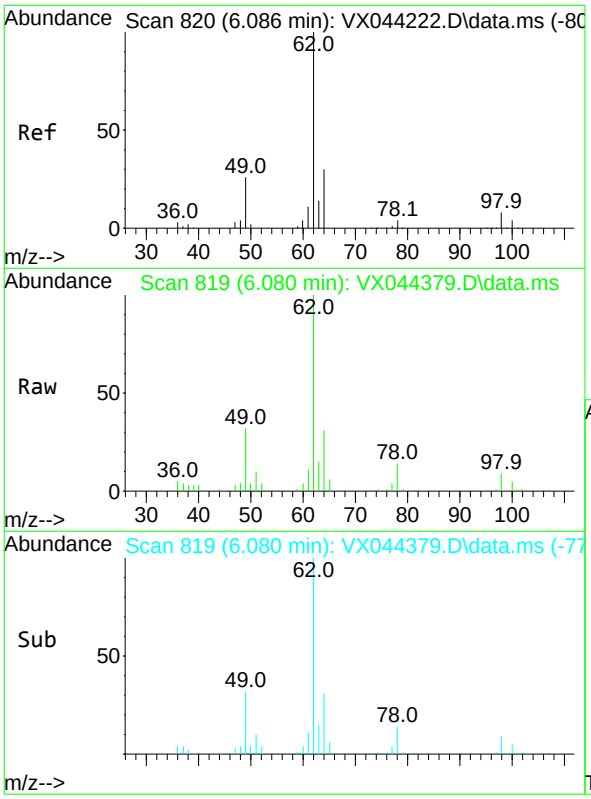
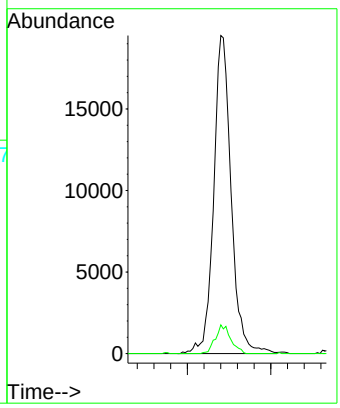
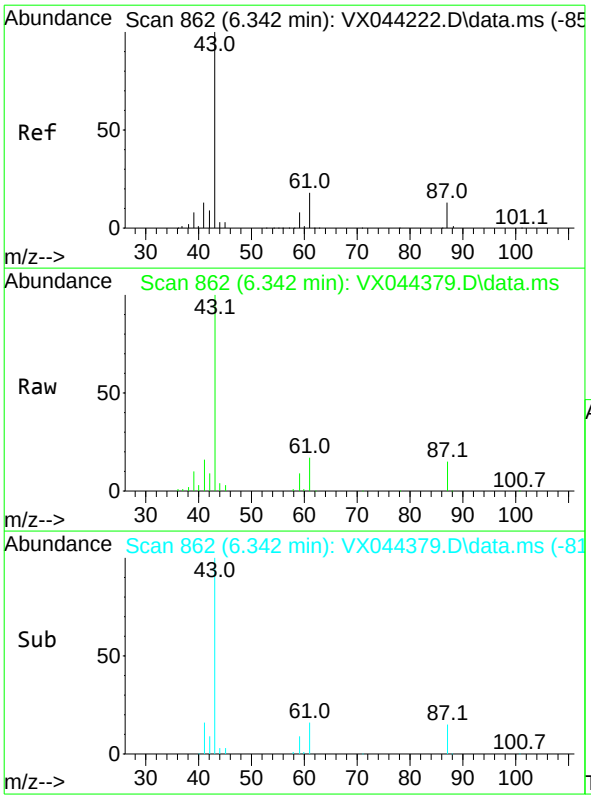


#42
1,2-Dichloroethane
Concen: 19.764 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 62 Resp: 56652

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8

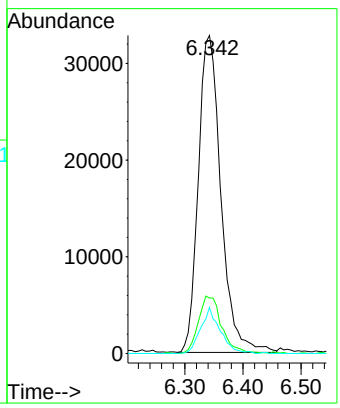




#43
Isopropyl Acetate
Concen: 20.015 ug/l
RT: 6.342 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 88627

Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.2	21.2
87	12.5	10.2	15.2



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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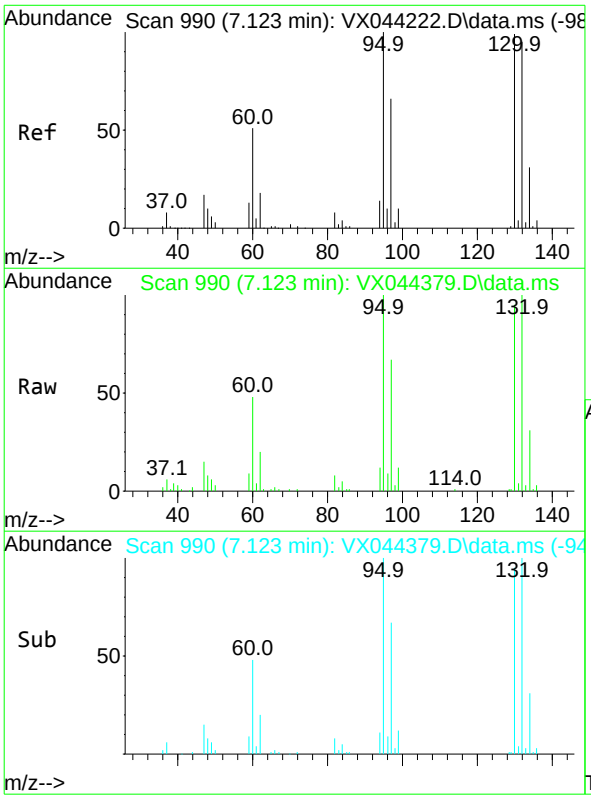
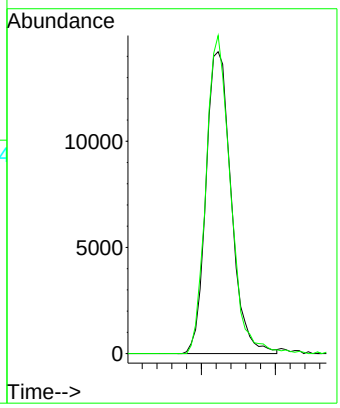
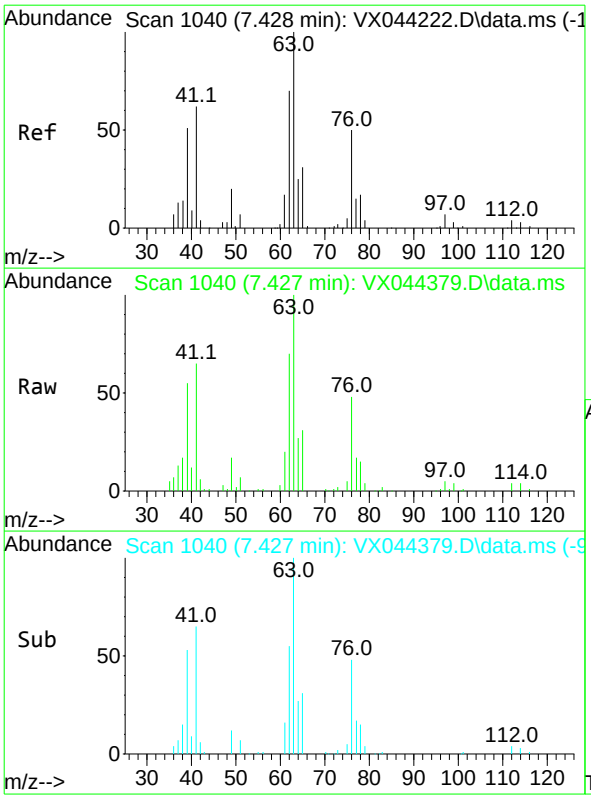


#44
Trichloroethene
Concen: 19.425 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:130 Resp: 33708

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	201.4

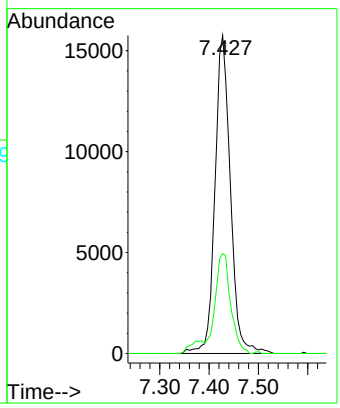




#45
1,2-Dichloropropane
Concen: 19.281 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 63 Resp: 34278

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.6	37.0



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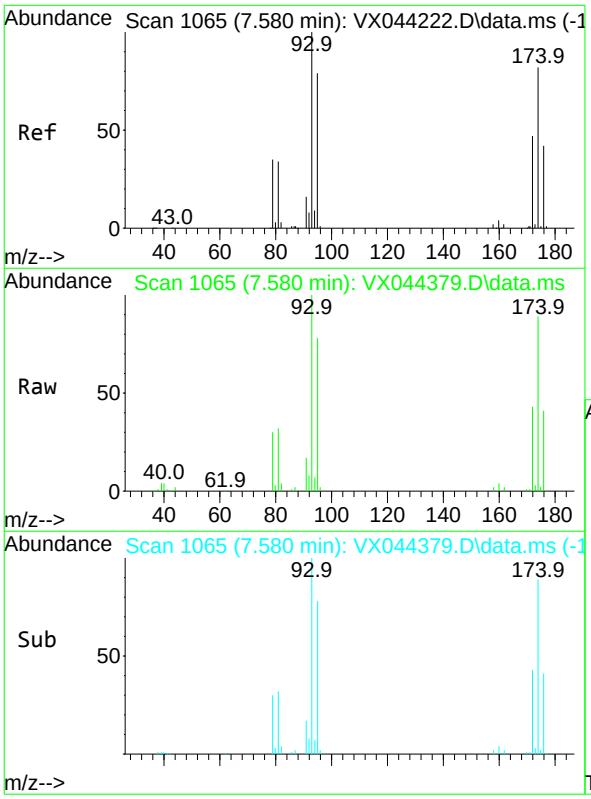
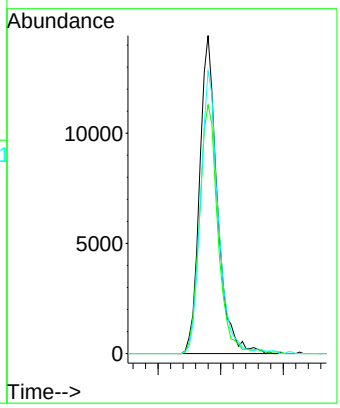
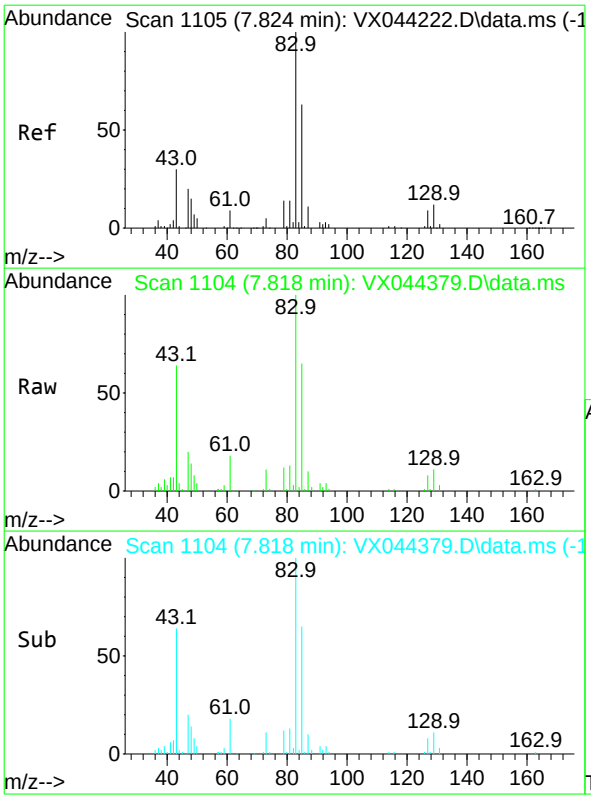


#46
Dibromomethane
Concen: 20.550 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 93 Resp: 28343

Ion	Ratio	Lower	Upper
93	100		
95	81.6	65.4	98.2
174	88.3	67.9	101.9

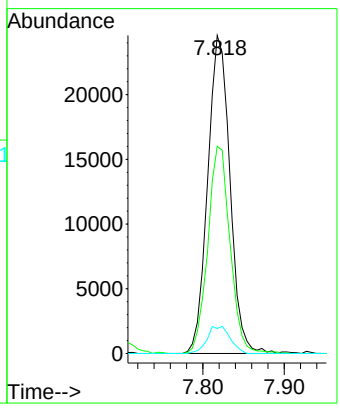




#47
Bromodichloromethane
Concen: 19.606 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 83 Resp: 46701

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.6	75.8
127	7.9	7.3	10.9



Instrument :
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ClientSampleId :
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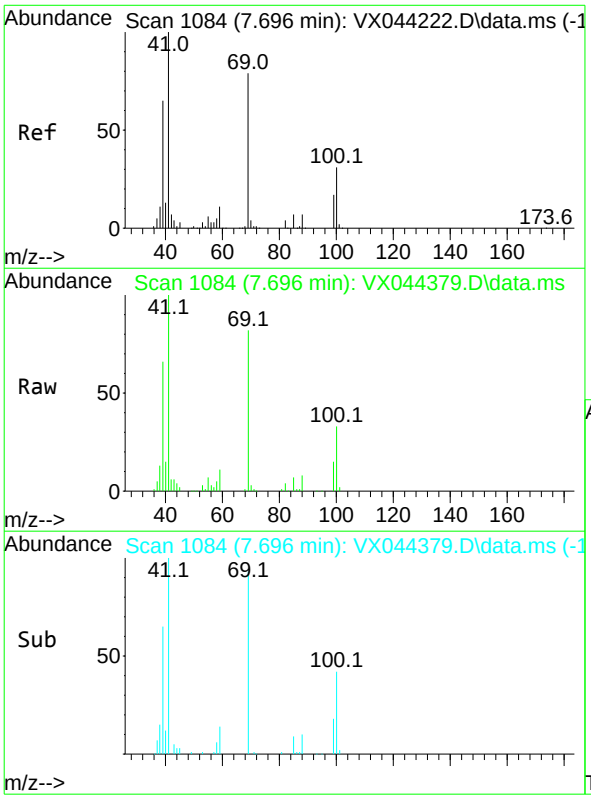
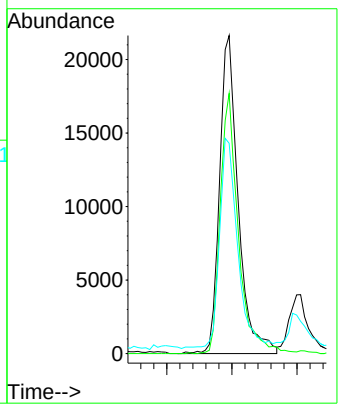
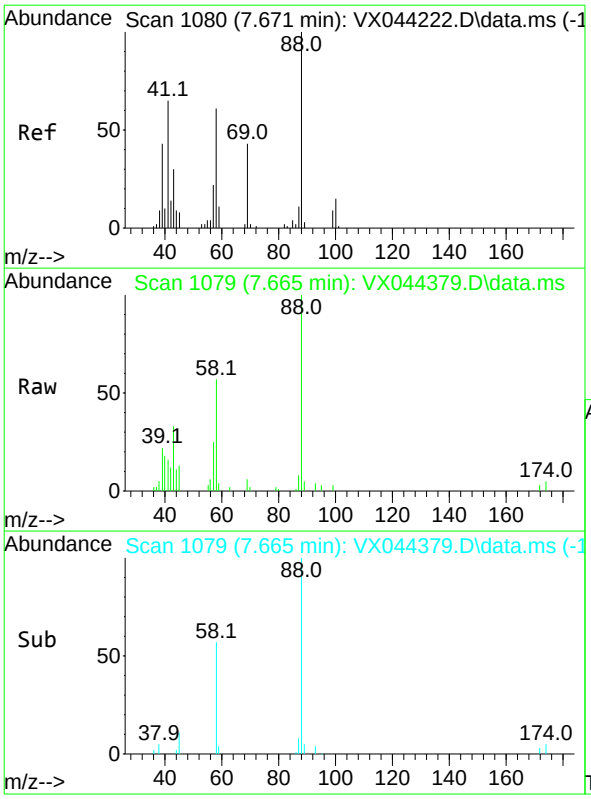


#48
Methyl methacrylate
Concen: 19.992 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 41 Resp: 42973

Ion	Ratio	Lower	Upper
41	100		
69	79.4	62.4	93.6
39	64.8	53.3	79.9

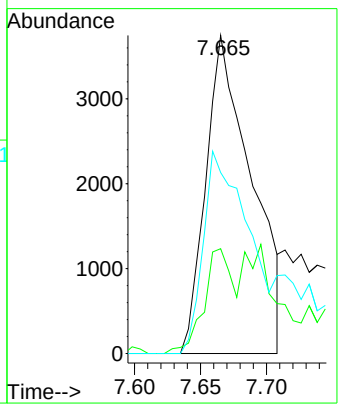




#49
1,4-Dioxane
Concen: 253.579 ug/l m
RT: 7.665 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 88 Resp: 9037

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.1	40.7#
58	62.3	41.0	61.4#



Instrument :
MSVOA_X
ClientSampleId :
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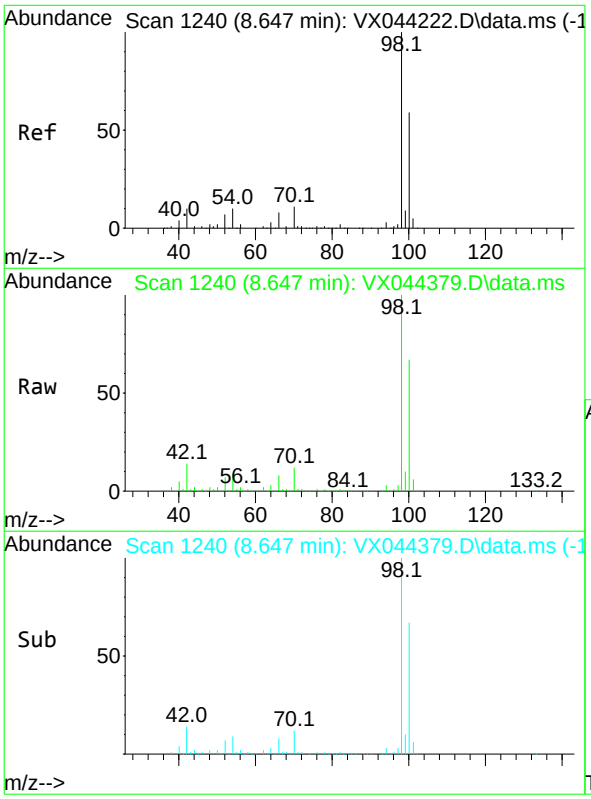
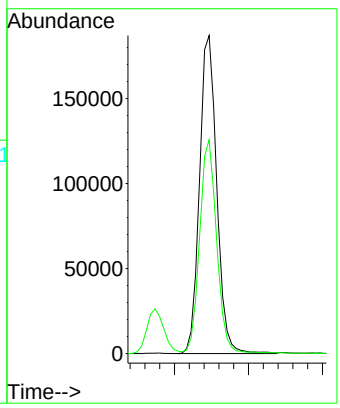
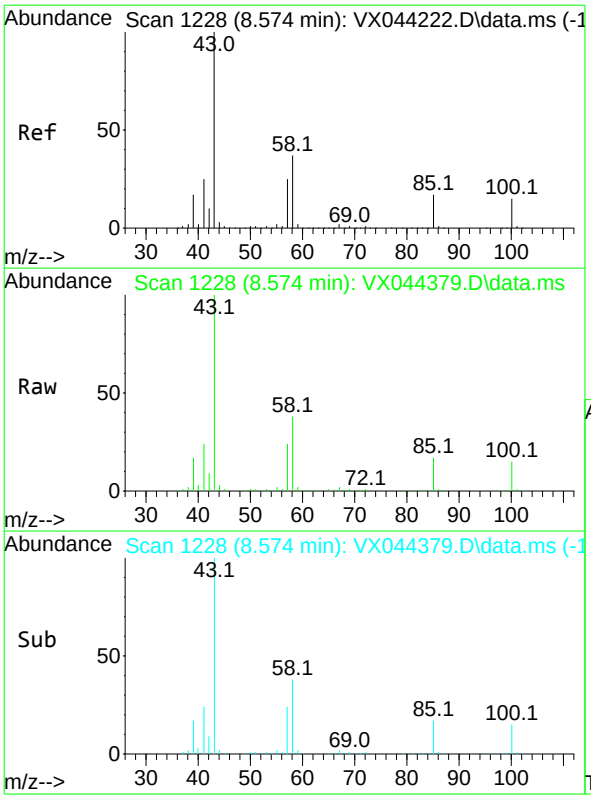


#50
Toluene-d8
Concen: 50.593 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 98 Resp: 302636

Ion	Ratio	Lower	Upper
98	100		
100	66.4	51.5	77.3

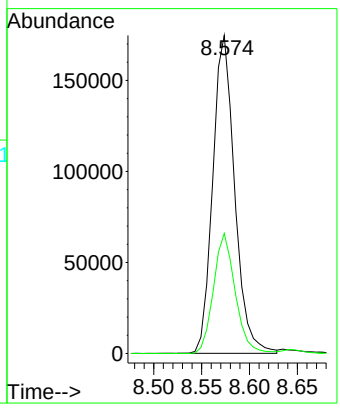




#51
4-Methyl-2-Pentanone
Concen: 97.665 ug/l
RT: 8.574 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 278065

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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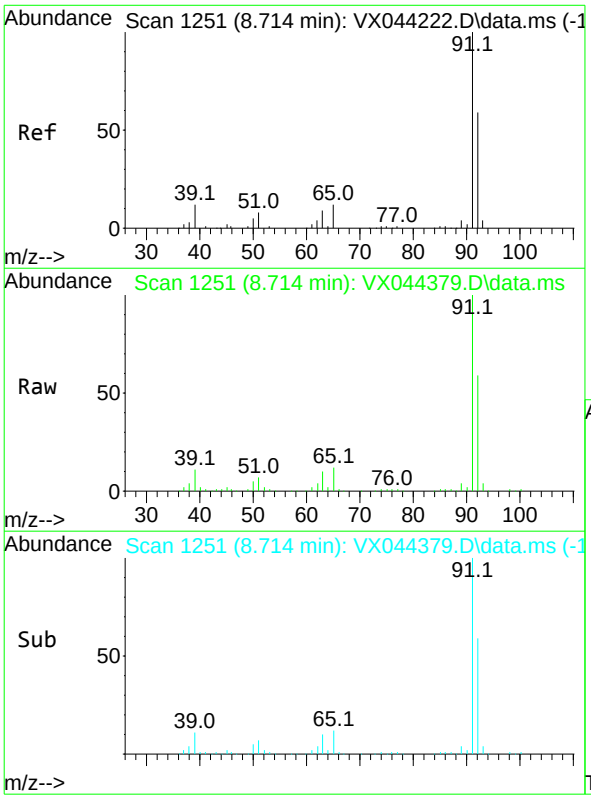
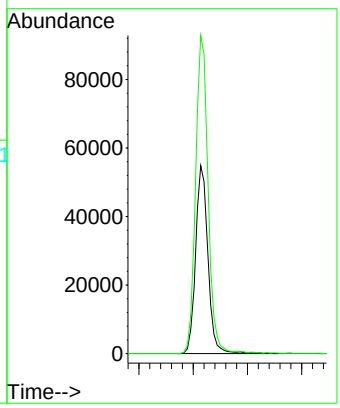
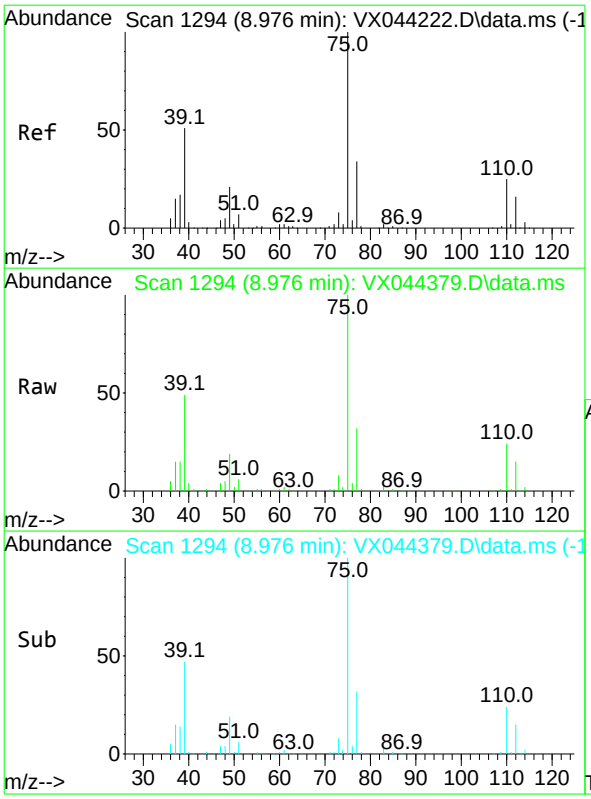


#52
Toluene
Concen: 19.782 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 92 Resp: 86445

Ion	Ratio	Lower	Upper
92	100		
91	171.9	137.0	205.6

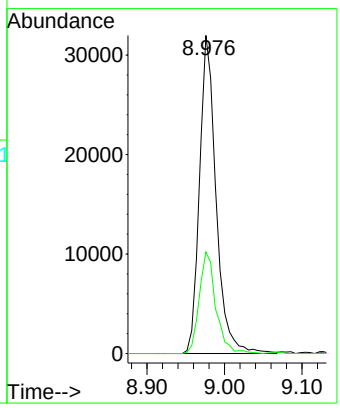




#53
t-1,3-Dichloropropene
Concen: 19.754 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 47425

Ion	Ratio	Lower	Upper
75	100		
77	31.9	27.2	40.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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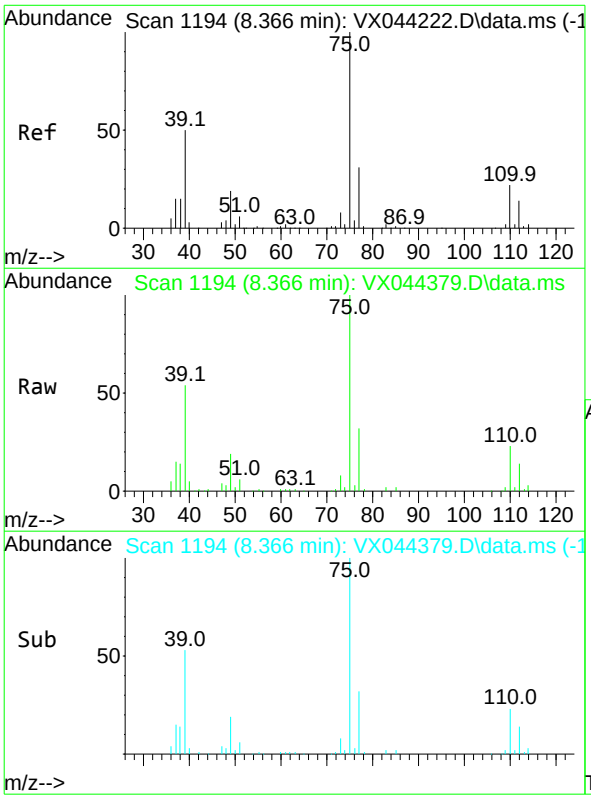
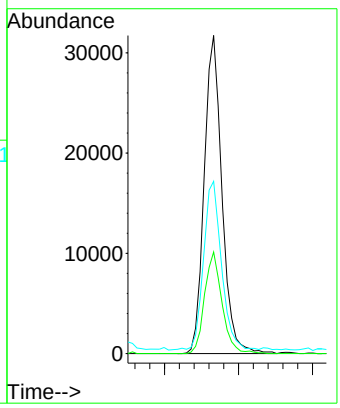
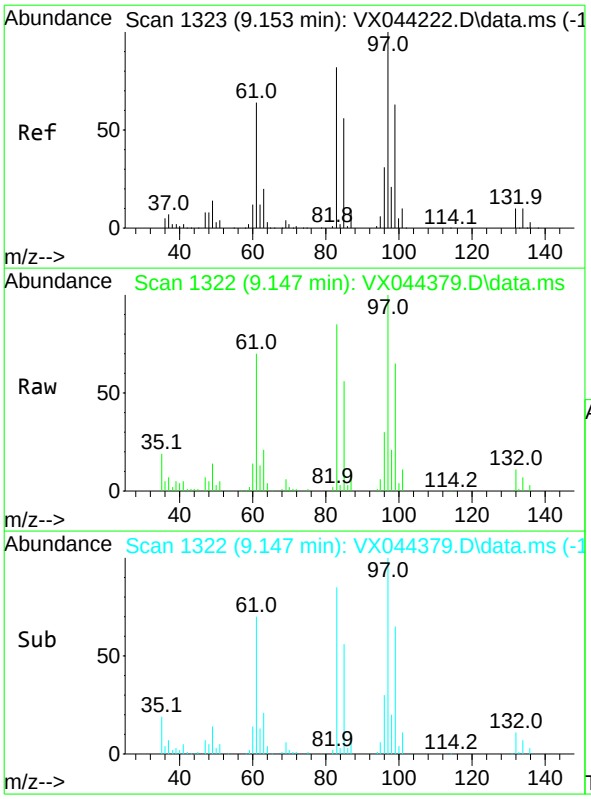


#54
cis-1,3-Dichloropropene
Concen: 20.390 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 52882

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.7	37.1
39	52.8	40.3	60.5

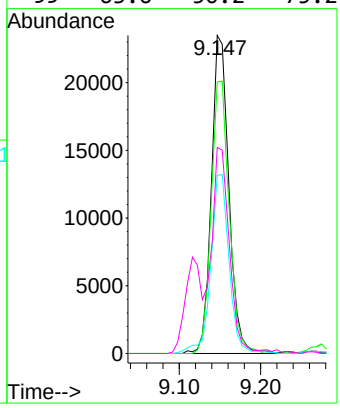




#55
1,1,2-Trichloroethane
Concen: 20.163 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 97 Resp: 35003

Ion	Ratio	Lower	Upper
97	100		
83	85.4	65.3	97.9
85	55.8	44.6	67.0
99	63.6	50.2	75.2



Instrument :
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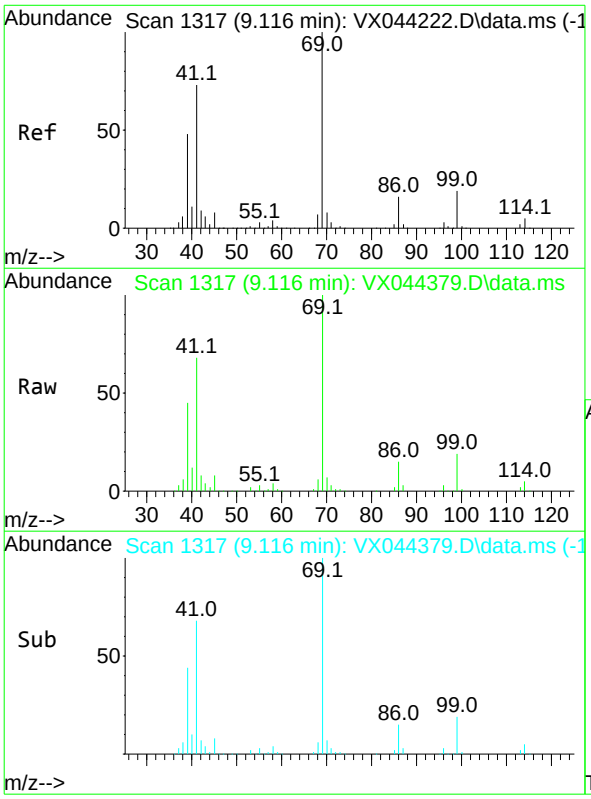
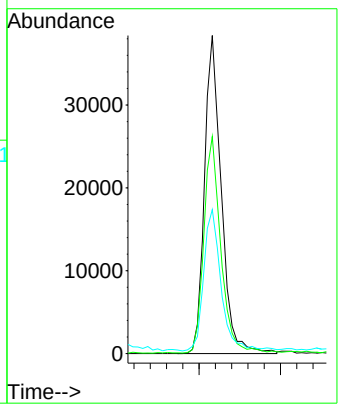
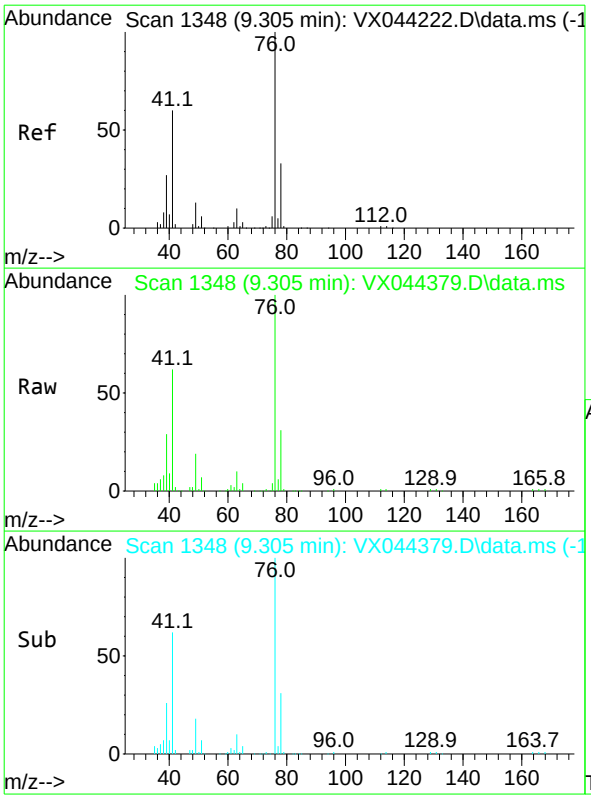


#56
Ethyl methacrylate
Concen: 20.118 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 69 Resp: 55135

Ion	Ratio	Lower	Upper
69	100		
41	68.5	56.6	85.0
39	45.6	37.4	56.0

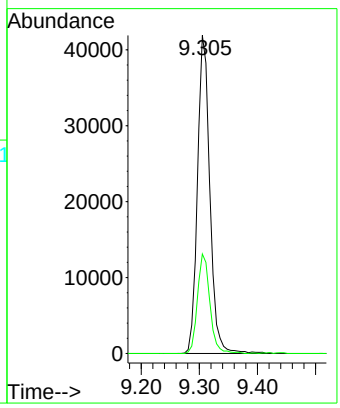




#57
1,3-Dichloropropane
Concen: 20.523 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 76 Resp: 62014

Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.5	39.7



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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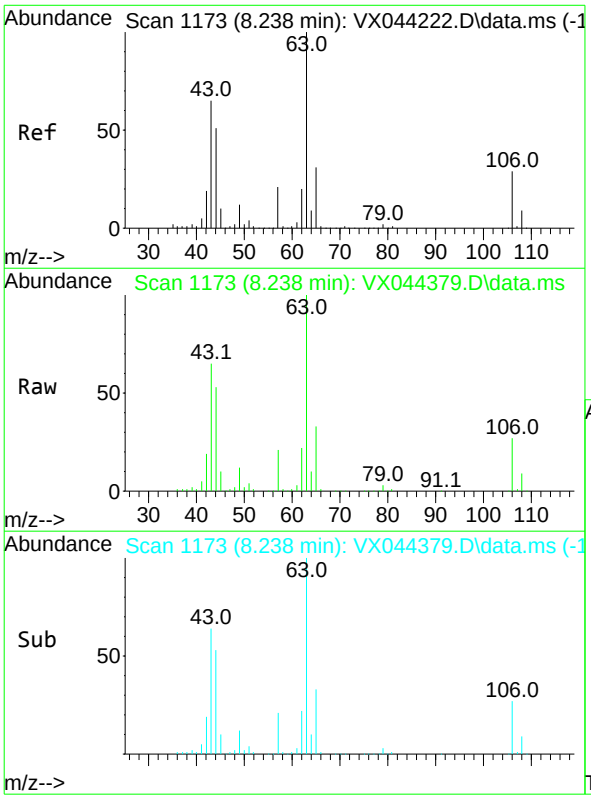
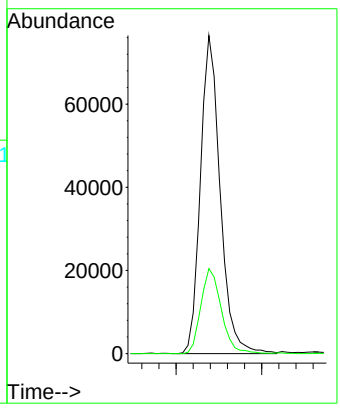
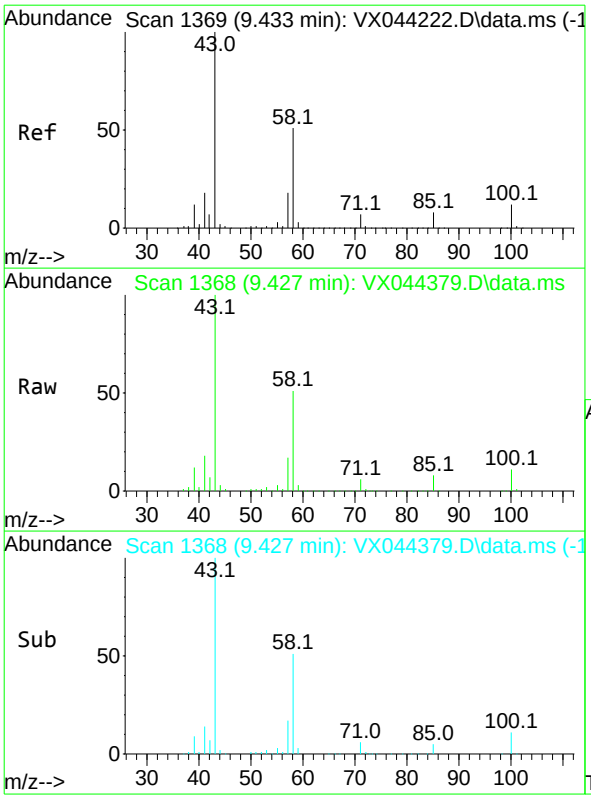


#58
2-Chloroethyl Vinyl ether
Concen: 88.570 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 63 Resp: 122427

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.8	34.2

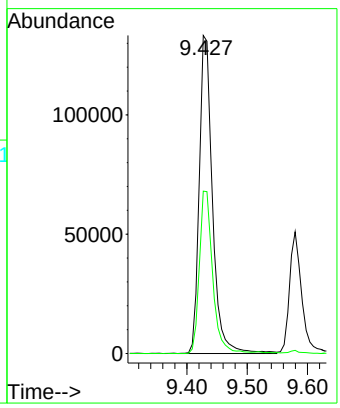




#59
2-Hexanone
Concen: 98.576 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 203147

Ion	Ratio	Lower	Upper
43	100		
58	51.2	25.7	77.0



Instrument :
MSVOA_X
ClientSampleId :
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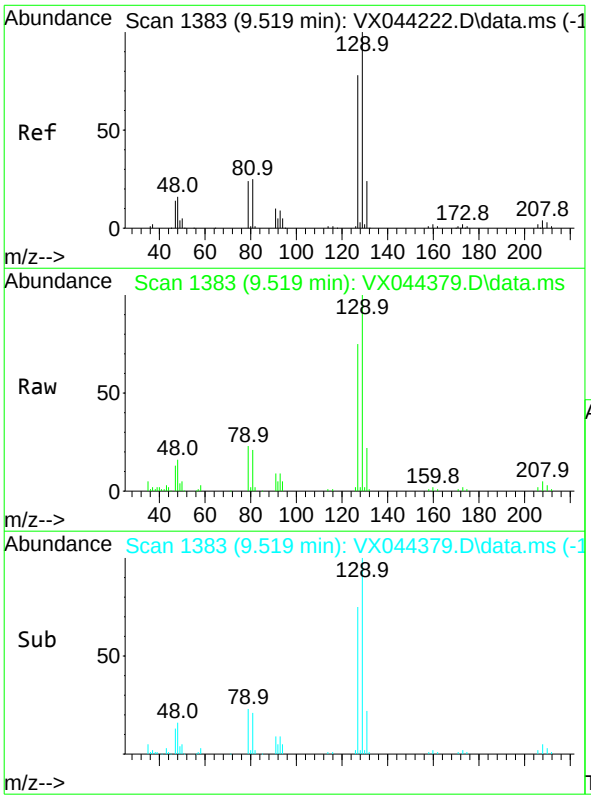
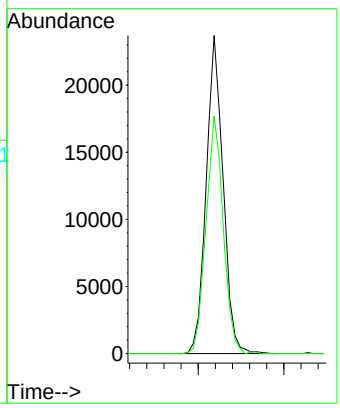
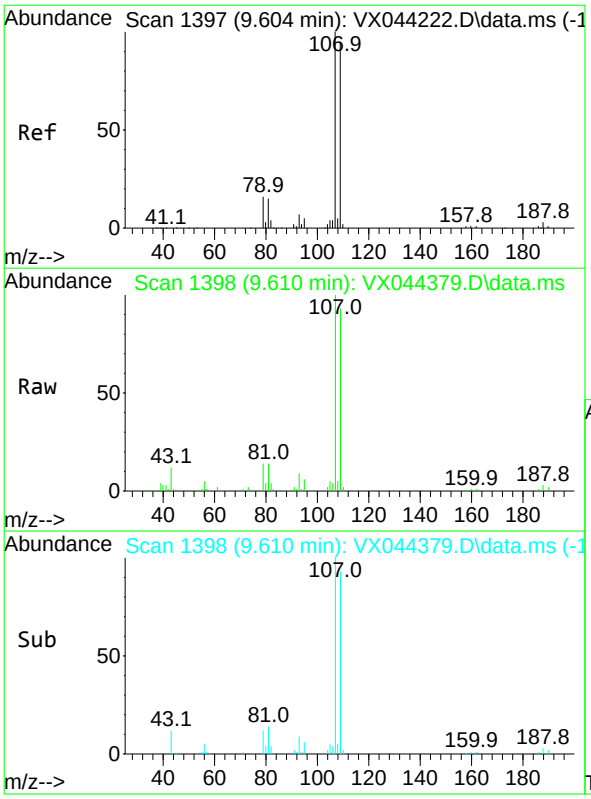


#60
Dibromochloromethane
Concen: 18.934 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:129 Resp: 32432

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.5	115.3

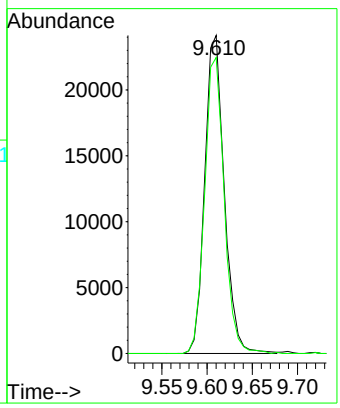




#61
1,2-Dibromoethane
Concen: 20.544 ug/l
RT: 9.610 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:107 Resp: 36303

Ion	Ratio	Lower	Upper
107	100		
109	93.2	77.0	115.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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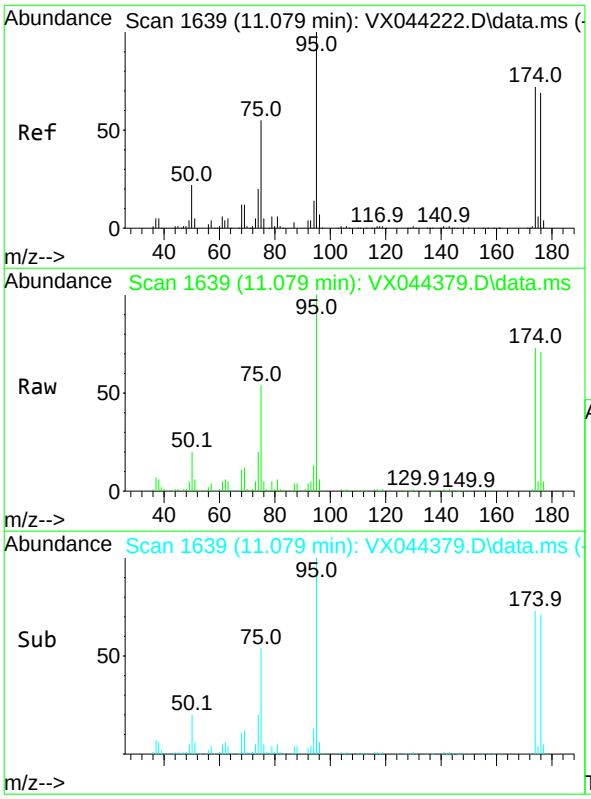
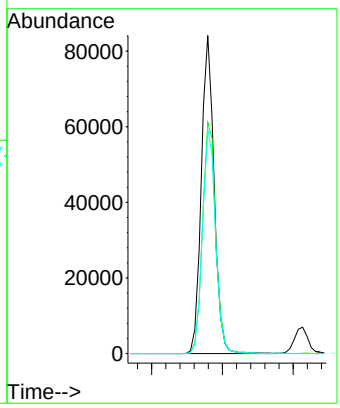
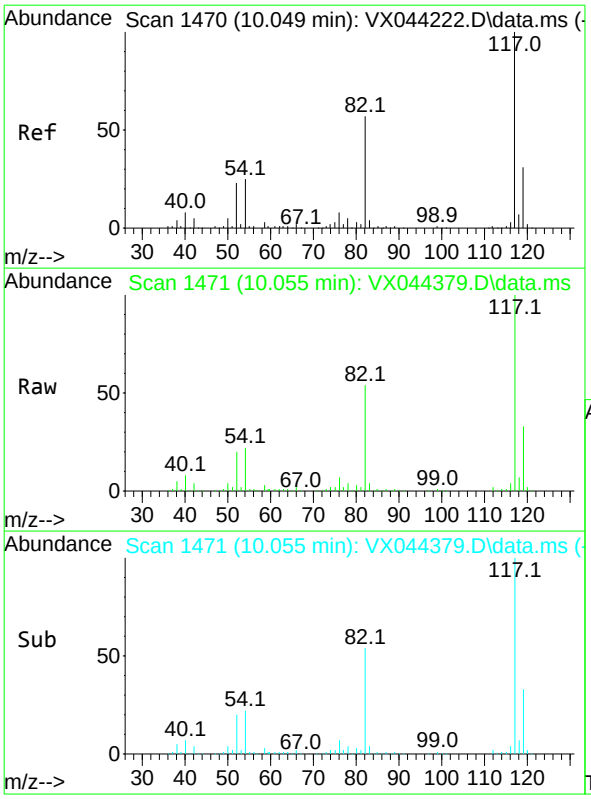


#62
4-Bromofluorobenzene
Concen: 50.581 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 95 Resp: 105722

Ion	Ratio	Lower	Upper
95	100		
174	75.0	0.0	145.8
176	72.1	0.0	137.8

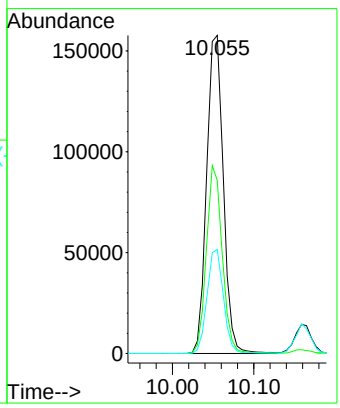




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:117 Resp: 224705

Ion	Ratio	Lower	Upper
117	100		
82	54.4	45.8	68.8
119	32.7	25.0	37.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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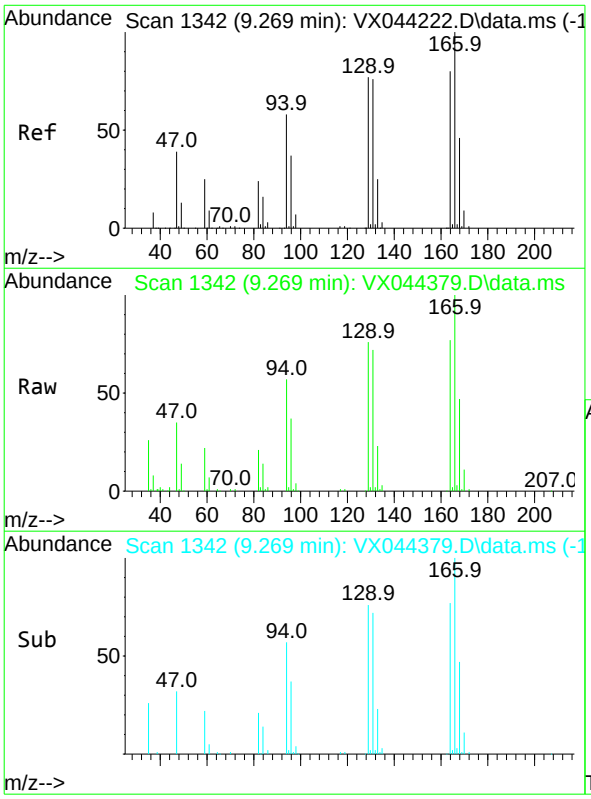
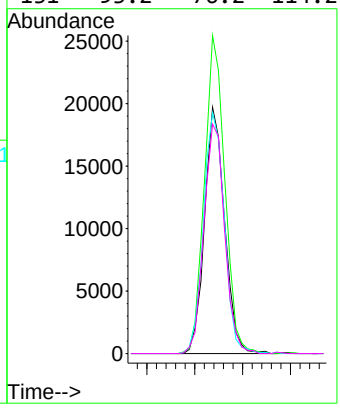
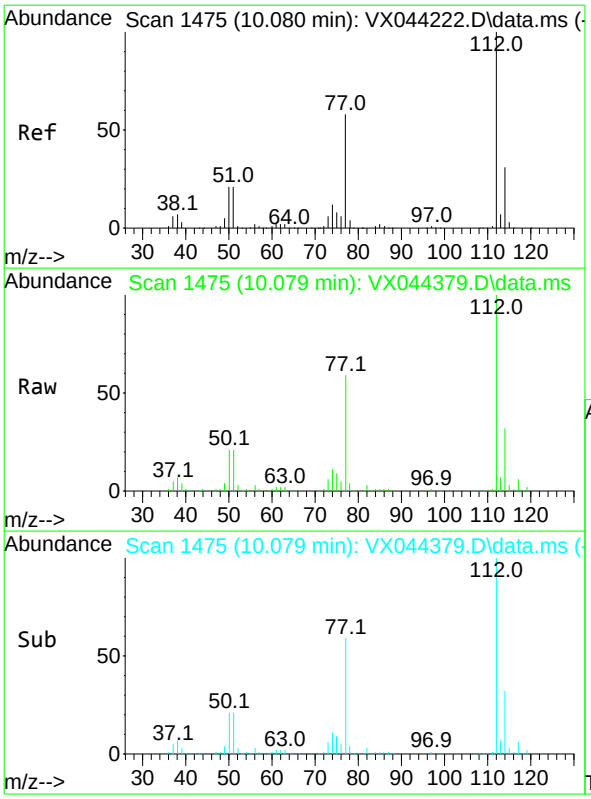


#64
Tetrachloroethene
Concen: 19.232 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:164 Resp: 28683

Ion	Ratio	Lower	Upper
164	100		
166	129.2	100.4	150.6
129	97.9	77.2	115.8
131	93.2	76.2	114.2

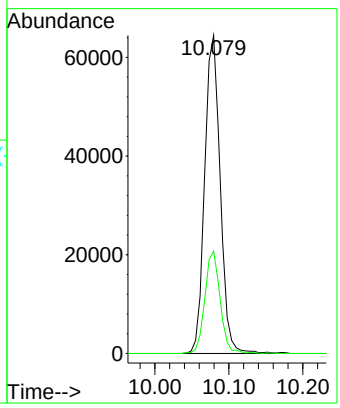




#65
Chlorobenzene
Concen: 19.550 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:112 Resp: 94134

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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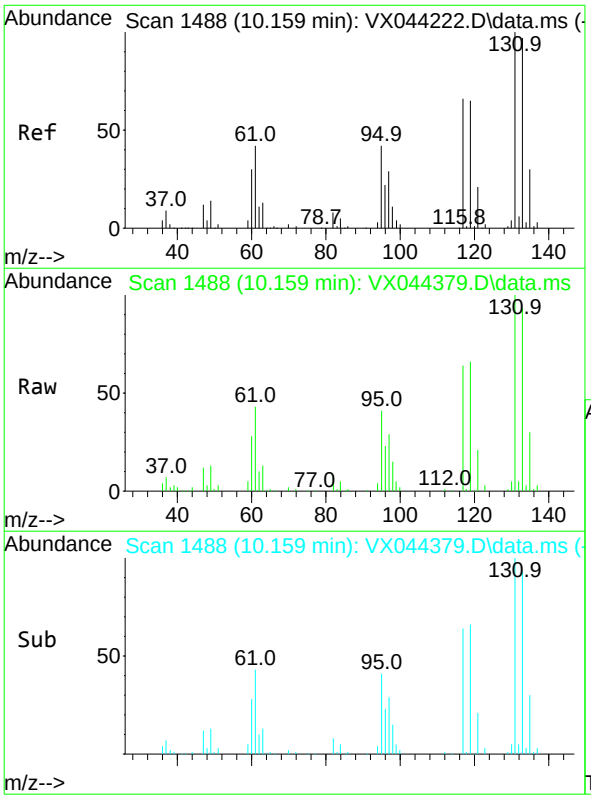
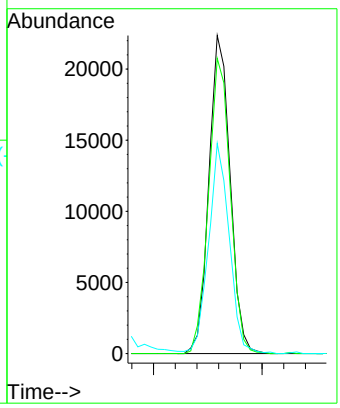
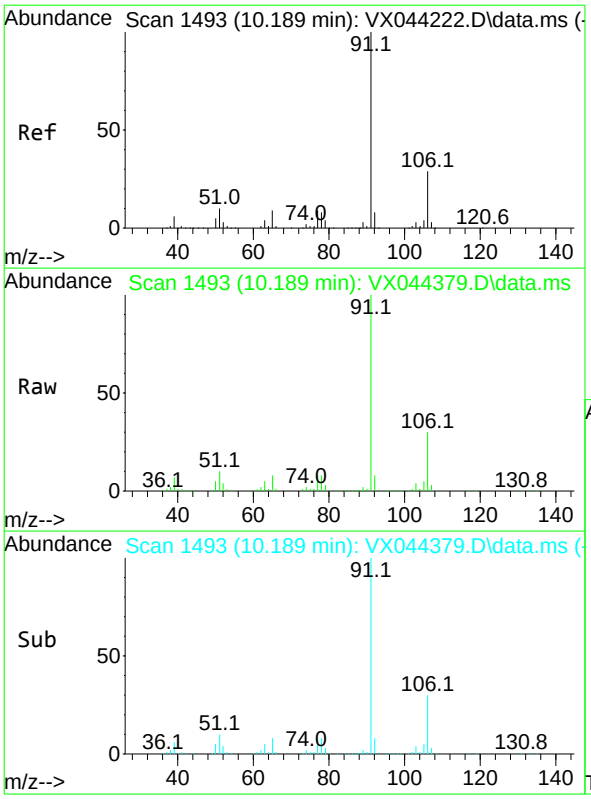


#66
1,1,1,2-Tetrachloroethane
Concen: 19.624 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:131 Resp: 30368

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	141.8
119	64.6	31.6	95.0

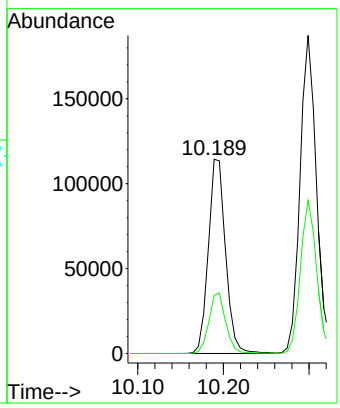




#67
Ethyl Benzene
Concen: 19.228 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 91 Resp: 159963

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.5	35.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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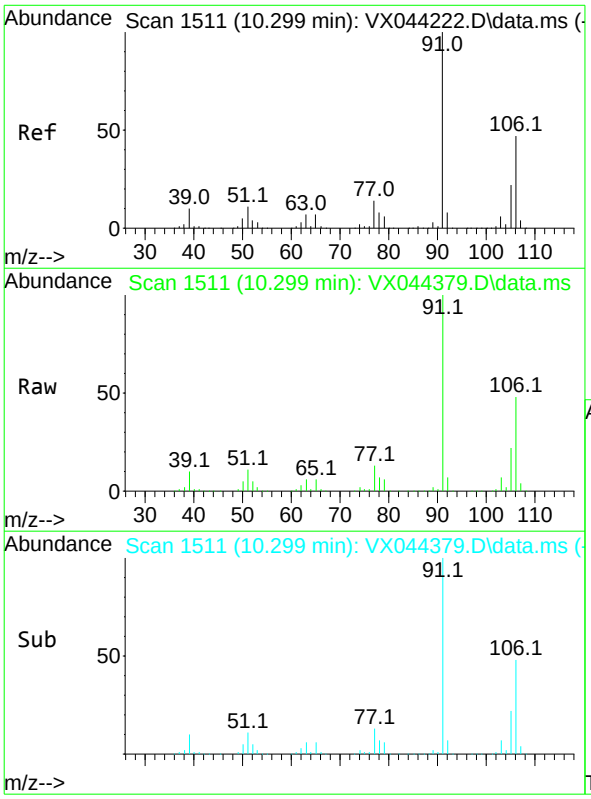
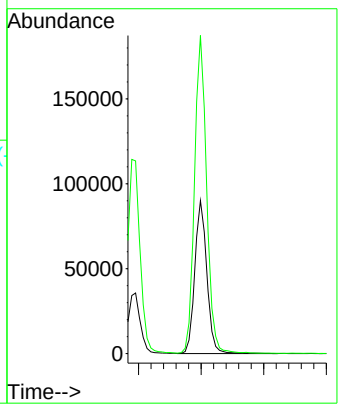
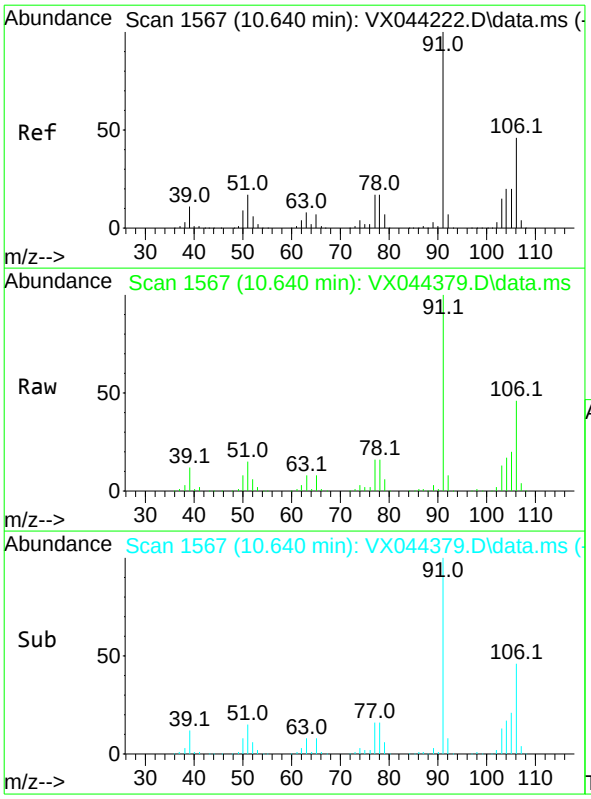


#68
m/p-Xylenes
Concen: 39.546 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:106 Resp: 120723

Ion	Ratio	Lower	Upper
106	100		
91	207.6	170.2	255.2

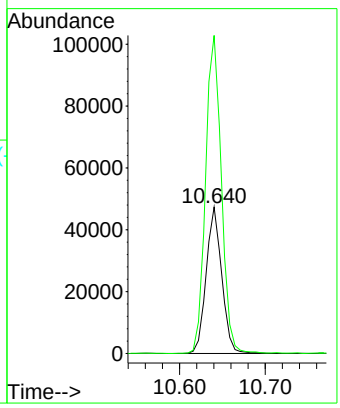




#69
o-Xylene
Concen: 19.328 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:106 Resp: 59698

Ion	Ratio	Lower	Upper
106	100		
91	221.0	112.3	337.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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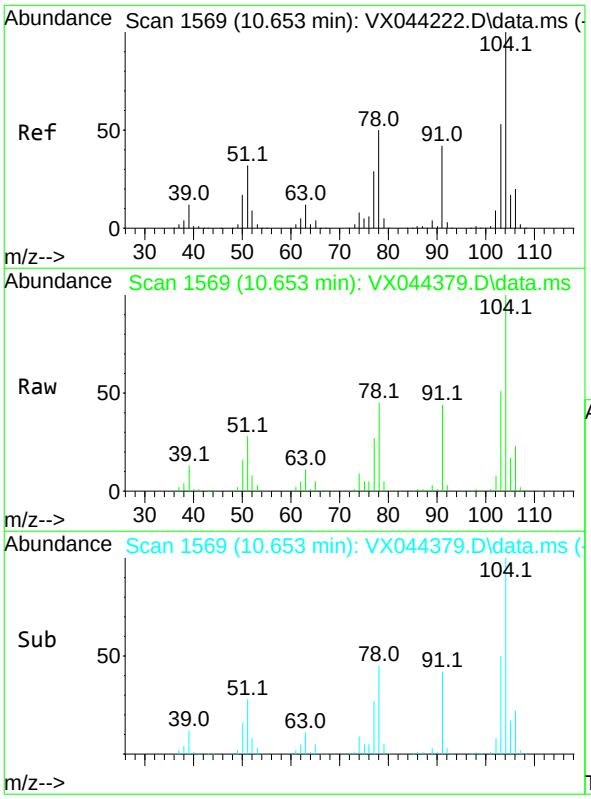
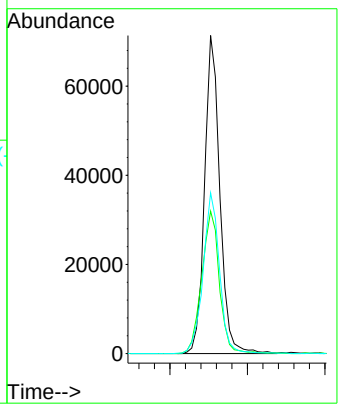
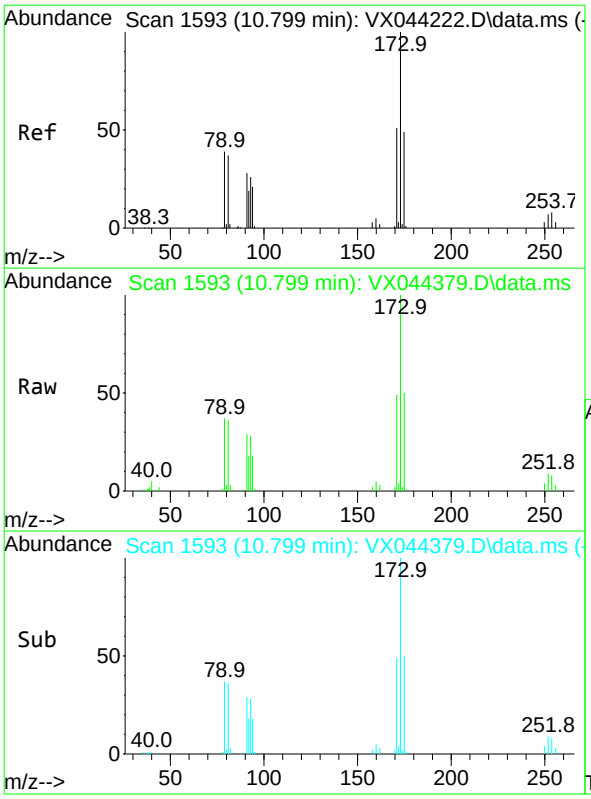


#70
Styrene
Concen: 19.741 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:104 Resp: 97751

Ion	Ratio	Lower	Upper
104	100		
78	51.8	44.6	67.0
103	54.6	45.4	68.0

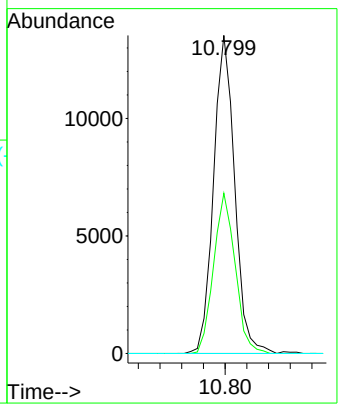




#71
Bromoform
Concen: 18.882 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:173 Resp: 18261

Ion	Ratio	Lower	Upper
173	100		
175	51.5	23.8	71.4
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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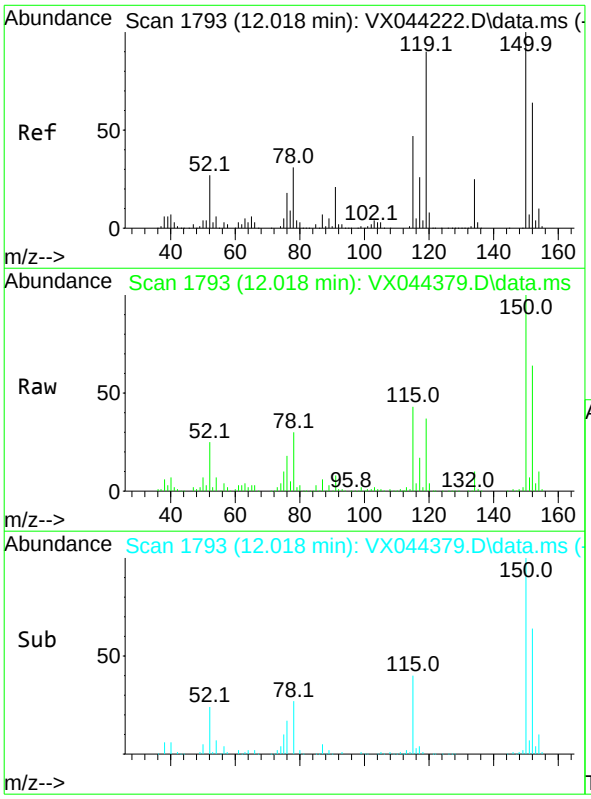
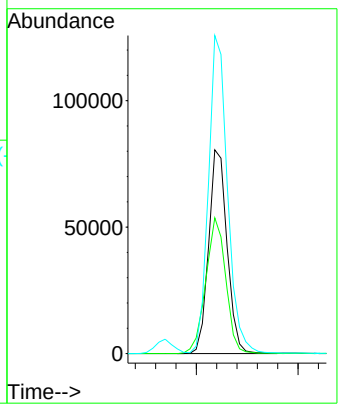
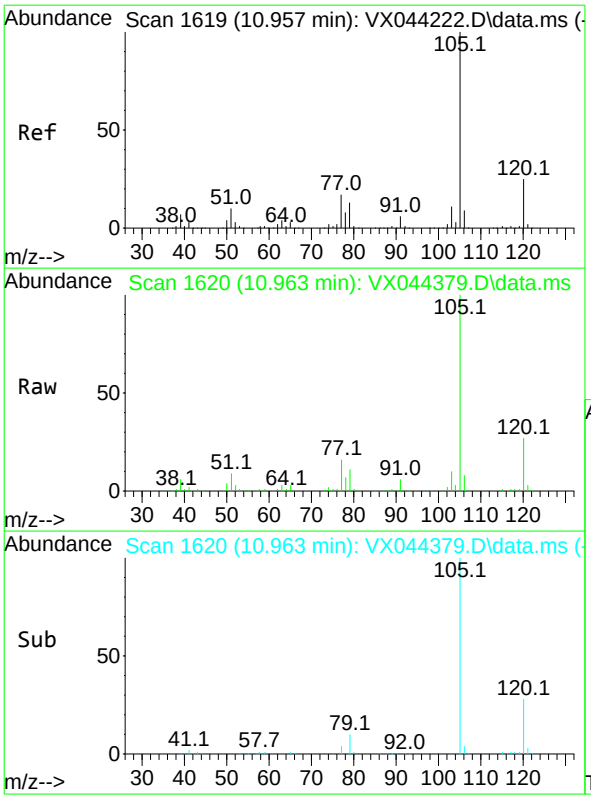


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:152 Resp: 101474

Ion	Ratio	Lower	Upper
152	100		
115	72.2	44.5	133.3
150	161.4	0.0	353.8

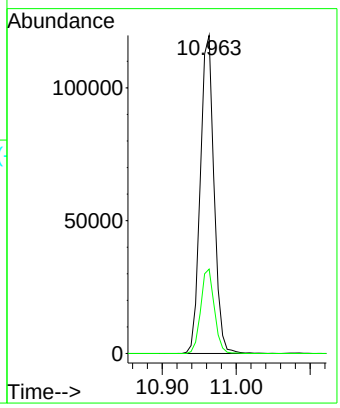




#73
Isopropylbenzene
Concen: 19.814 ug/l
RT: 10.963 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:105 Resp: 153918

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.3



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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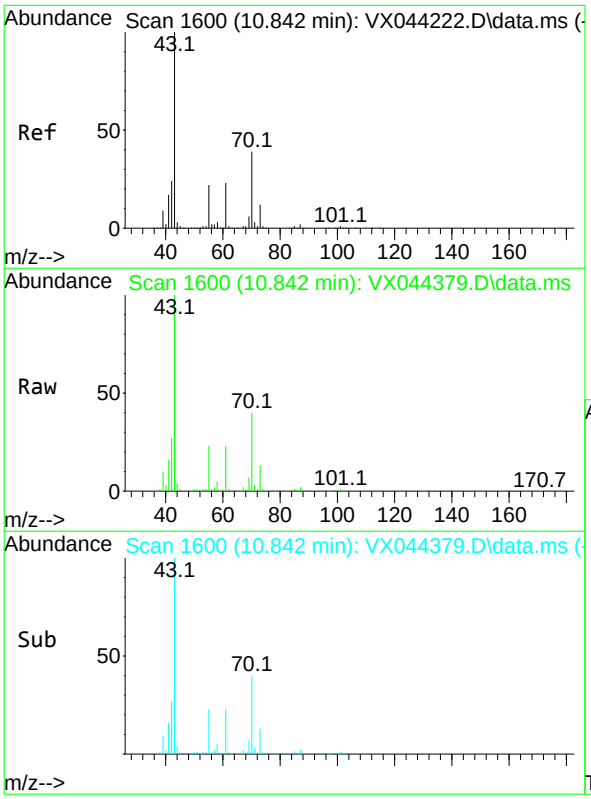
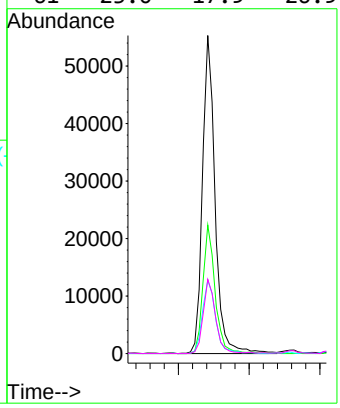
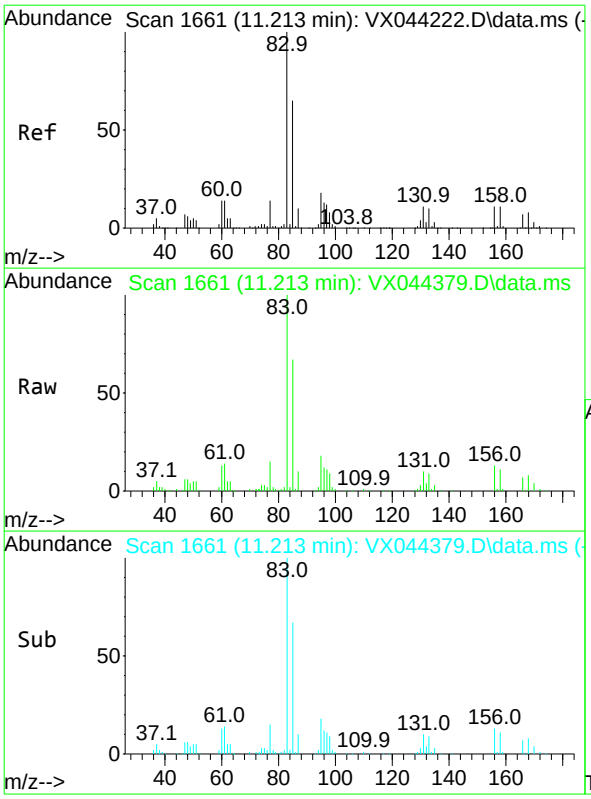


#74
N-amyl acetate
Concen: 19.115 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 68625

Ion	Ratio	Lower	Upper
43	100		
70	39.3	31.9	47.9
55	24.1	17.9	26.9
61	23.0	17.9	26.9

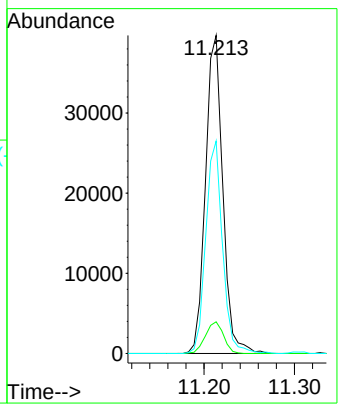




#75
1,1,2,2-Tetrachloroethane
Concen: 19.541 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 83 Resp: 52724

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.4
85	64.8	32.5	97.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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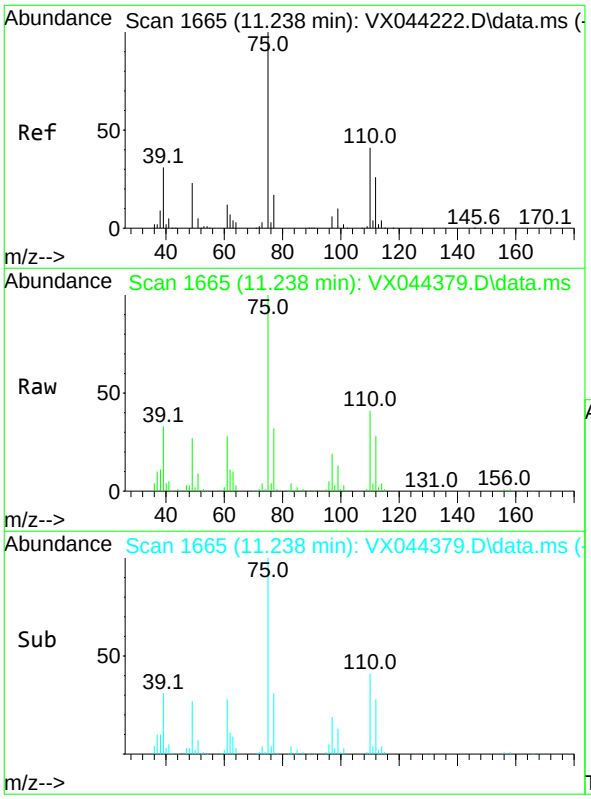
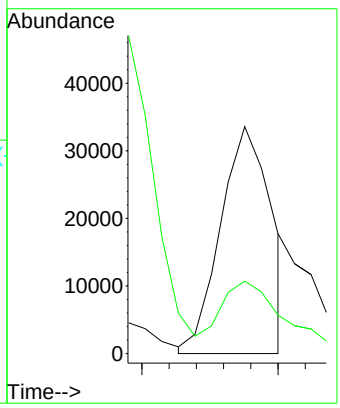
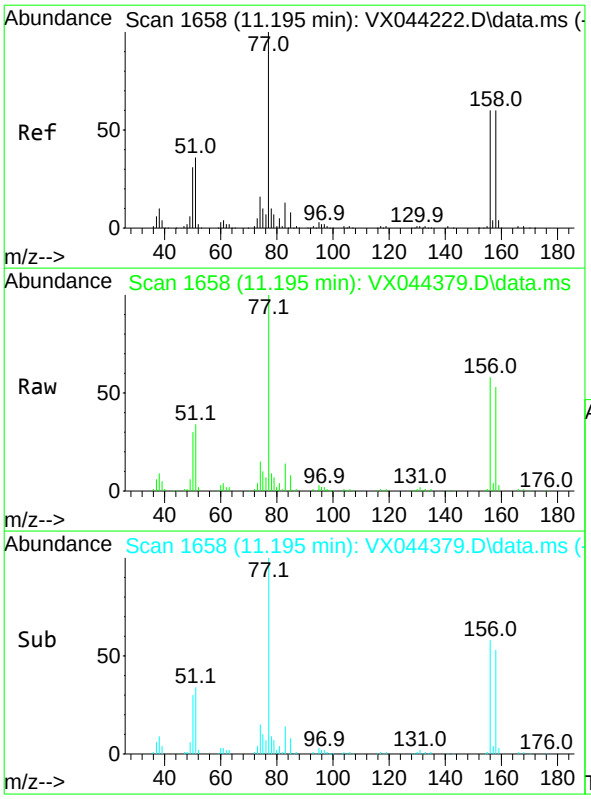


#76
1,2,3-Trichloropropane
Concen: 19.183 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 43463

Ion	Ratio	Lower	Upper
75	100		
77	41.3	20.9	62.7

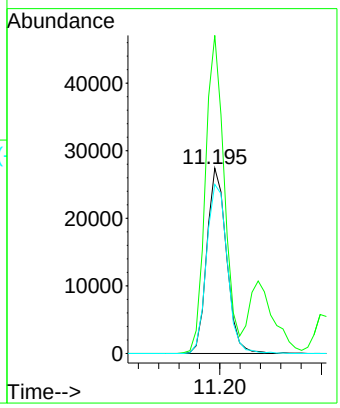




#77
Bromobenzene
Concen: 19.432 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:156 Resp: 36606

Ion	Ratio	Lower	Upper
156	100		
77	165.5	82.6	247.8
158	96.8	48.8	146.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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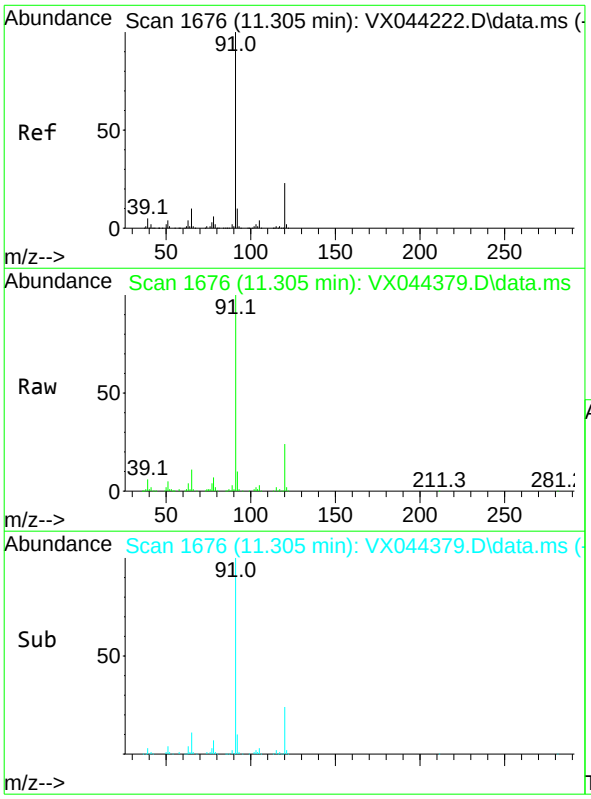
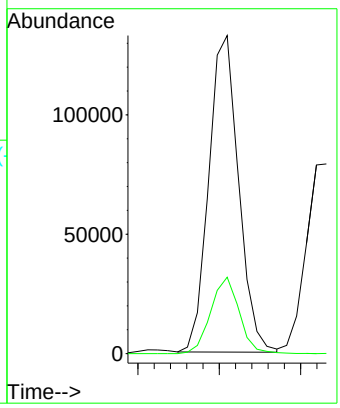
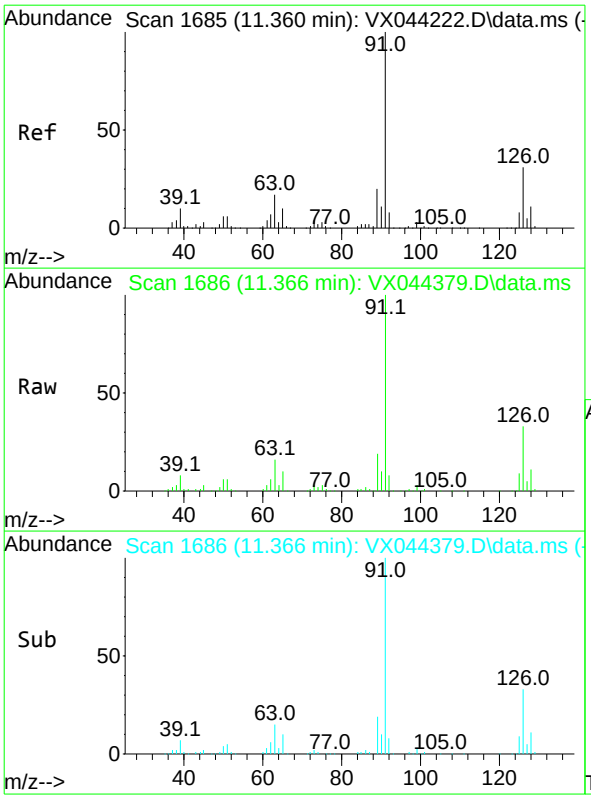


#78
n-propylbenzene
Concen: 19.692 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 91 Resp: 169075

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.0	33.0

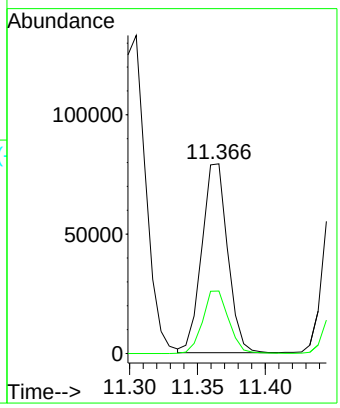




#79
2-Chlorotoluene
Concen: 18.936 ug/l
RT: 11.366 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 91 Resp: 105145

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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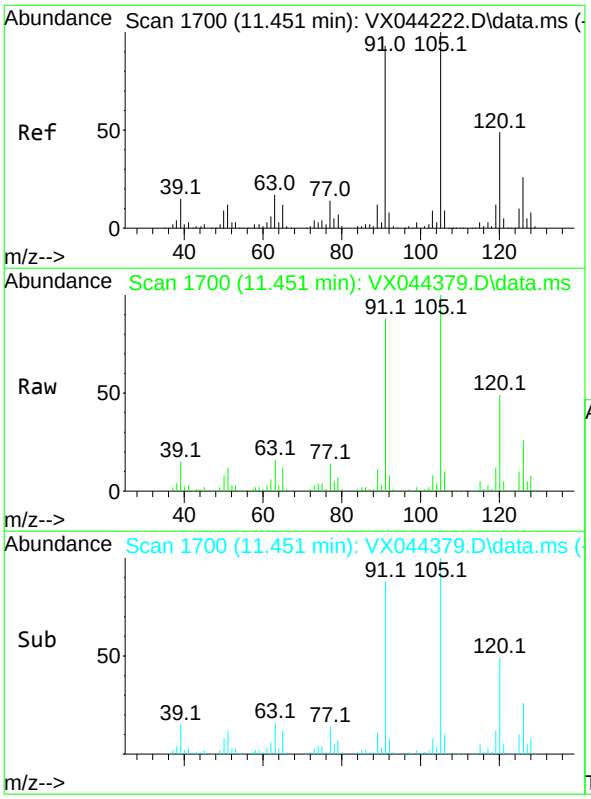
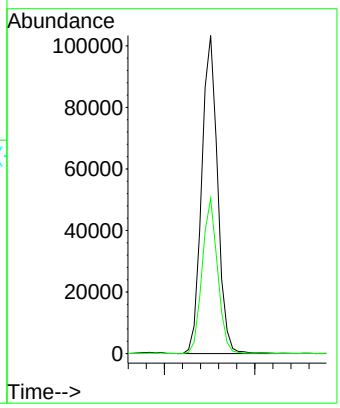
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

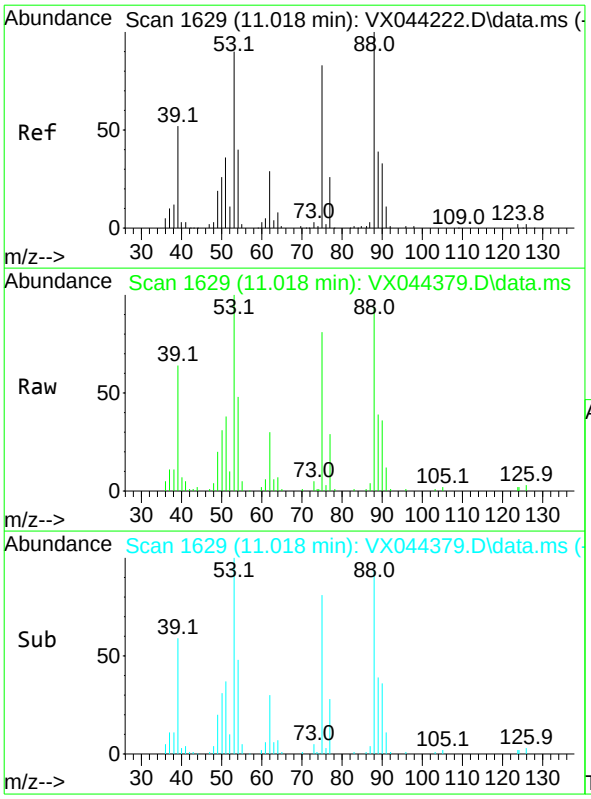


#80
1,3,5-Trimethylbenzene
Concen: 19.595 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:105 Resp: 126232

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	71.4

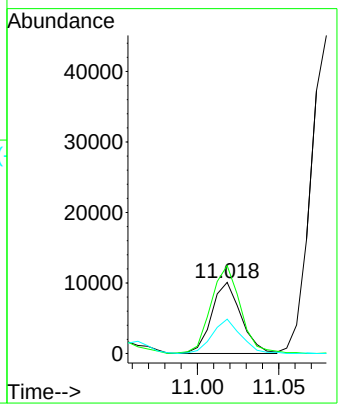




#81
trans-1,4-Dichloro-2-butene
Concen: 19.831 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 12684

Ion	Ratio	Lower	Upper
75	100		
53	124.4	93.6	140.4
89	47.3	37.3	55.9



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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Reviewed By :John Carlone 12/20/2024
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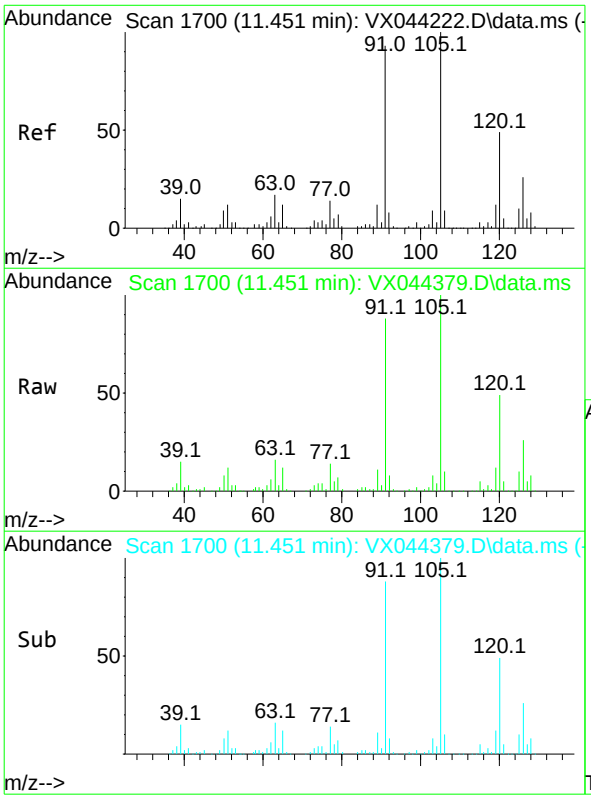
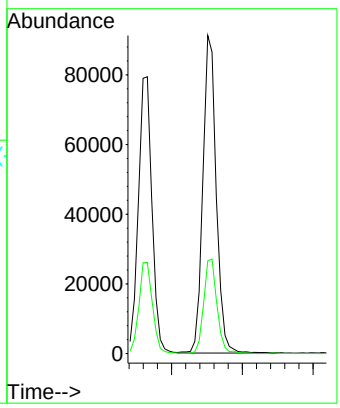
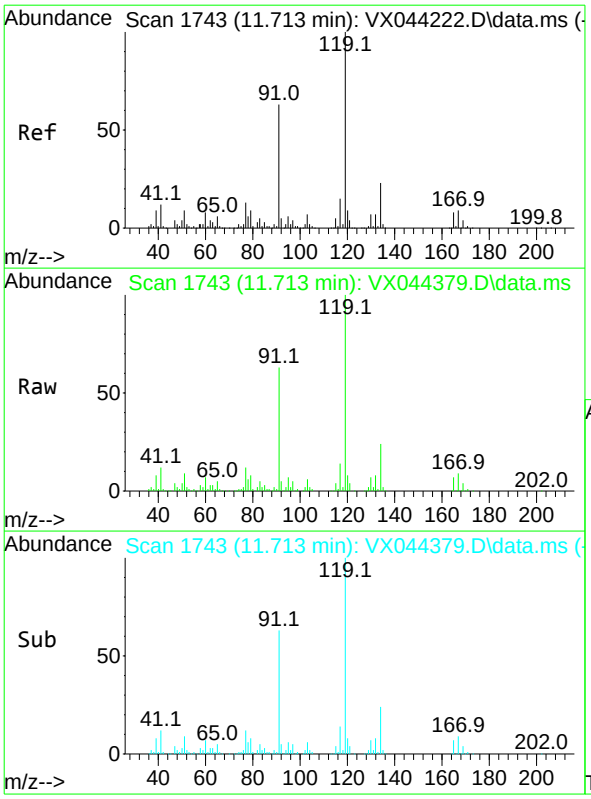


#82
4-Chlorotoluene
Concen: 19.467 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 91 Resp: 119703

Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.5	43.5

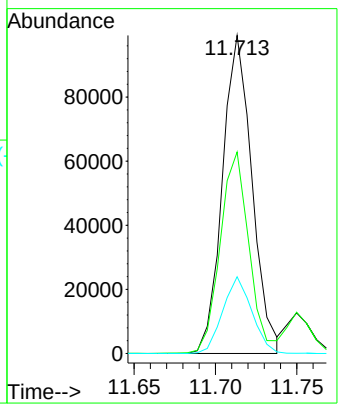




#83
tert-Butylbenzene
Concen: 19.670 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:119 Resp: 125228

Ion	Ratio	Lower	Upper
119	100		
91	62.2	30.9	92.5
134	23.8	11.5	34.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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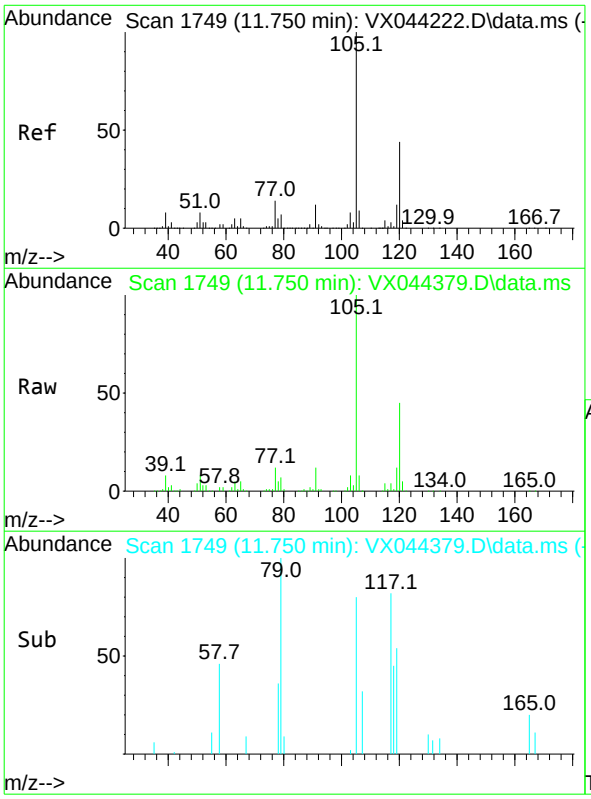
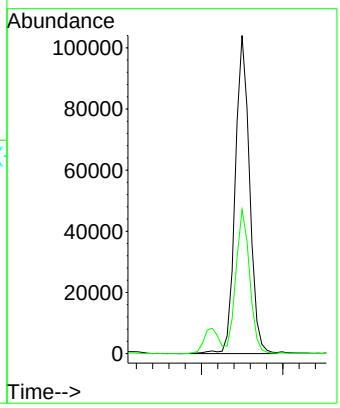
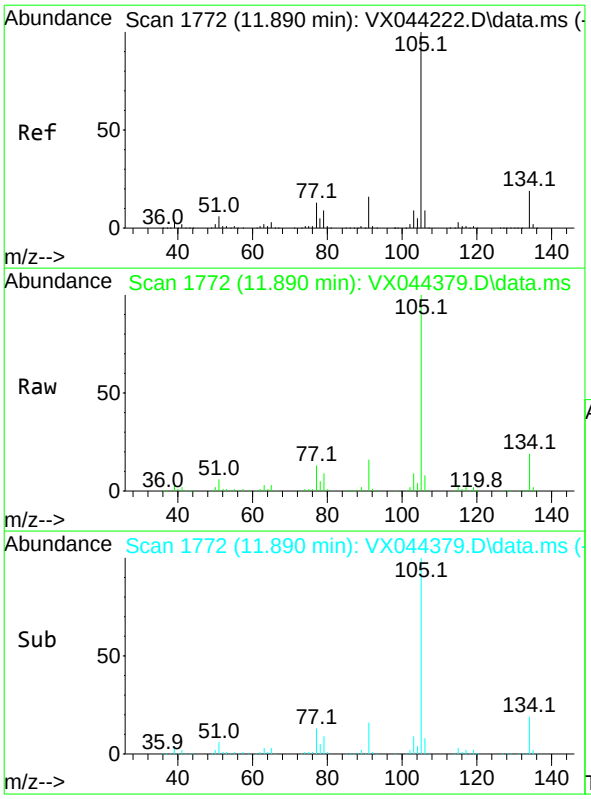


#84
1,2,4-Trimethylbenzene
Concen: 20.126 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:105 Resp: 127328

Ion	Ratio	Lower	Upper
105	100		
120	43.9	21.7	65.1

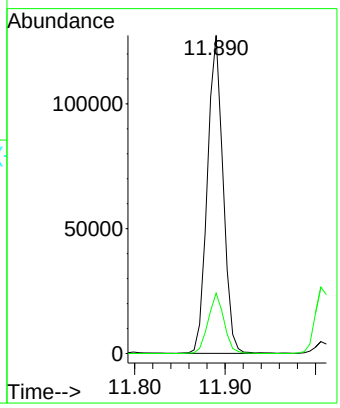




#85
sec-Butylbenzene
Concen: 19.858 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:105 Resp: 153481

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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Reviewed By :John Carlone 12/20/2024
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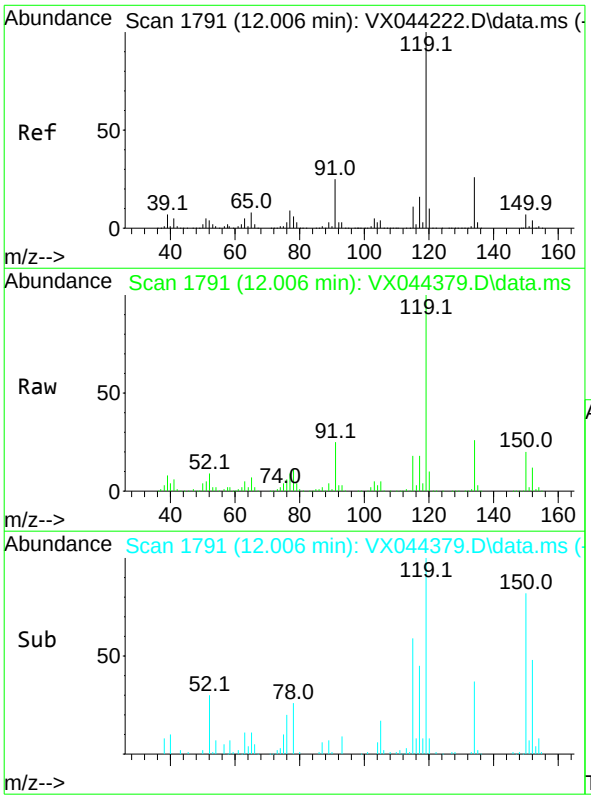
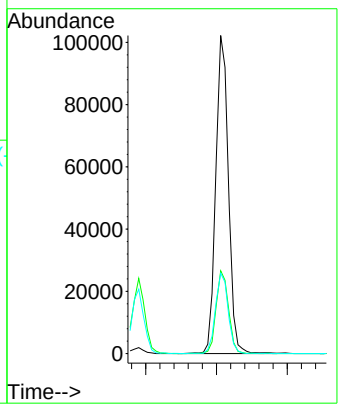
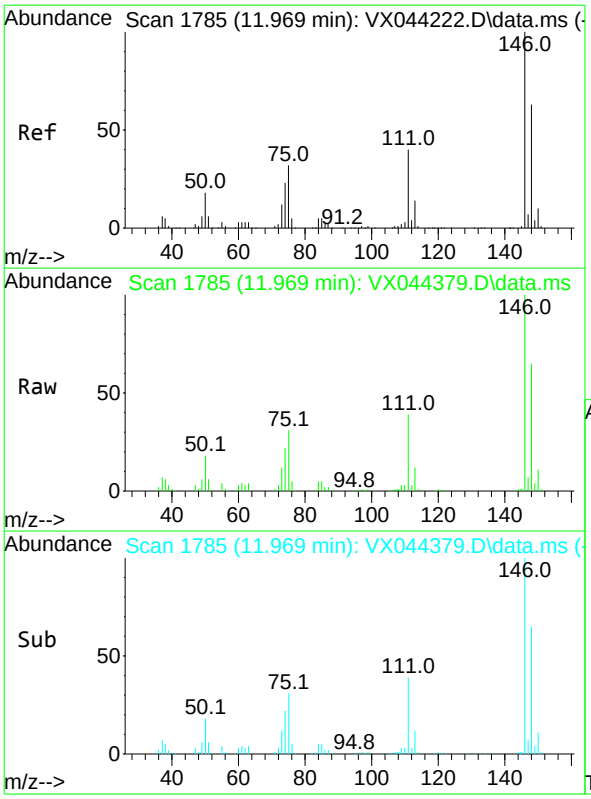


#86
p-Isopropyltoluene
Concen: 19.703 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:119 Resp: 126744

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.4
91	25.6	13.0	39.0

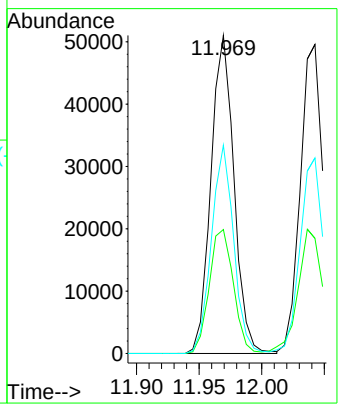




#87
1,3-Dichlorobenzene
Concen: 19.864 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:146 Resp: 65361

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.4	64.2
148	63.3	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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Reviewed By :John Carlone 12/20/2024
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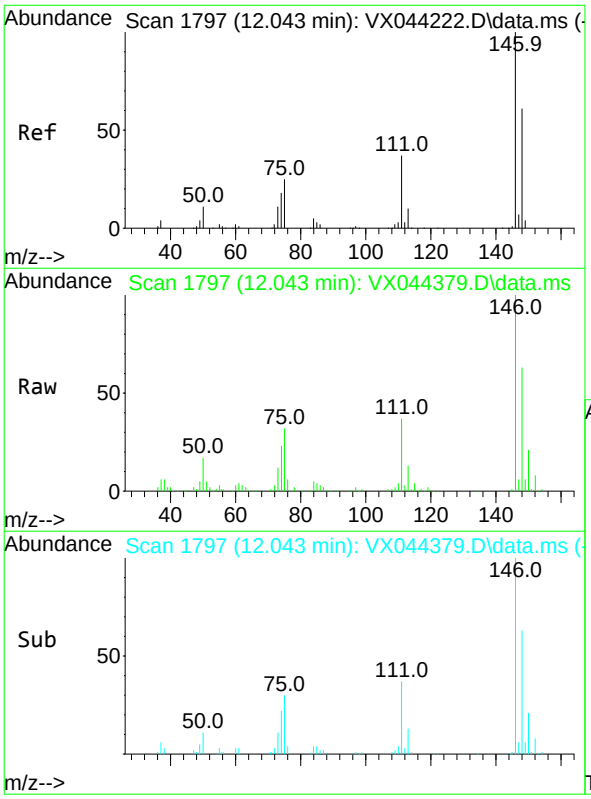
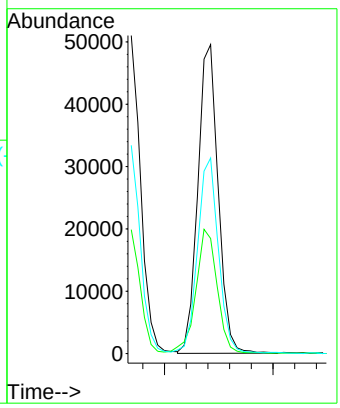
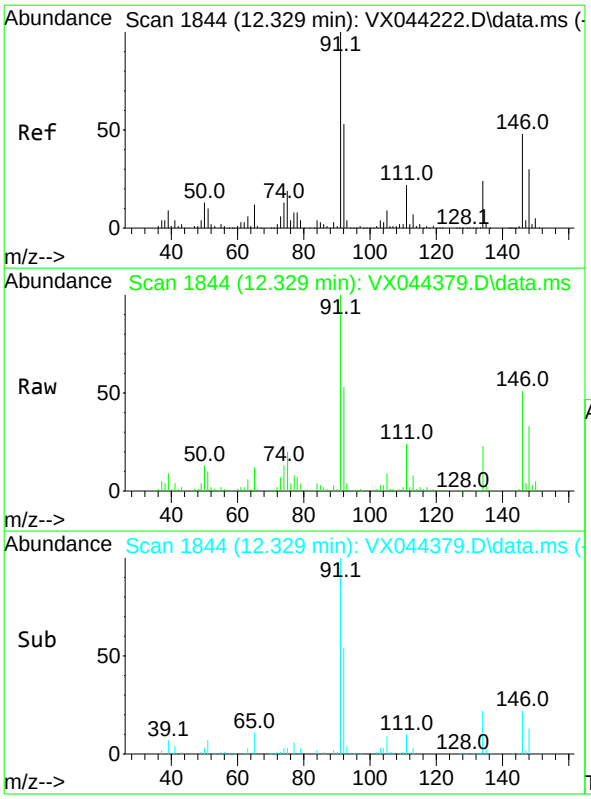


#88
1,4-Dichlorobenzene
Concen: 19.090 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:146 Resp: 64574

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.0	63.0
148	64.3	32.3	96.8

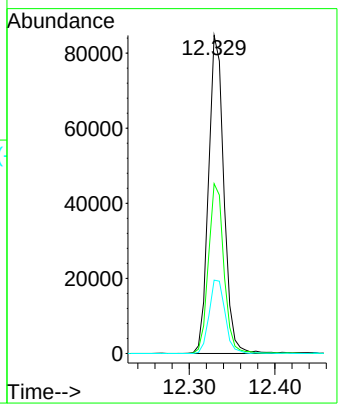




#89
n-Butylbenzene
Concen: 19.460 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 91 Resp: 105264

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.6	79.7
134	24.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations
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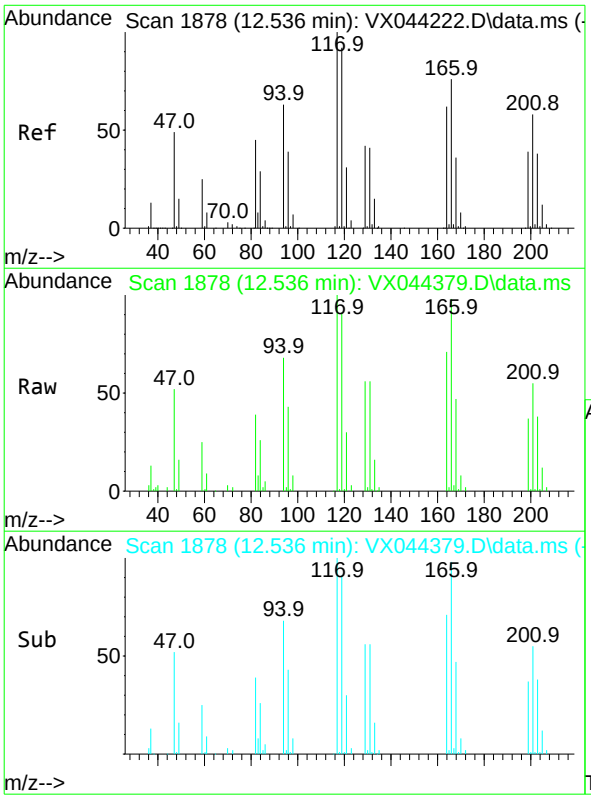
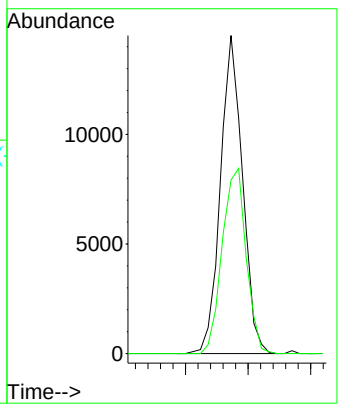
Reviewed By :John Carlone 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

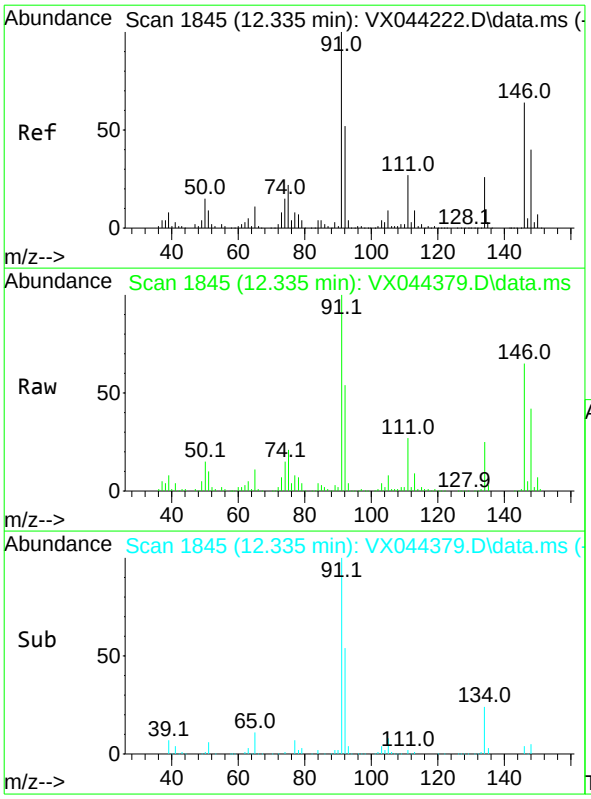


#90
Hexachloroethane
Concen: 18.915 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:117 Resp: 17762

Ion	Ratio	Lower	Upper
117	100		
201	63.1	31.4	94.2

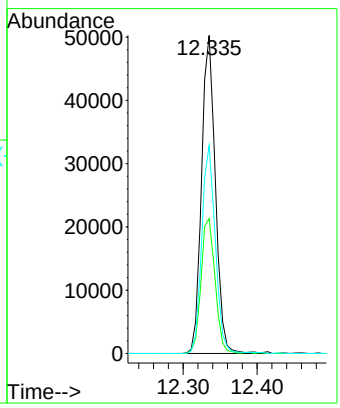




#91
1,2-Dichlorobenzene
Concen: 19.126 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:146 Resp: 65345

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.3
148	64.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations APPROVED

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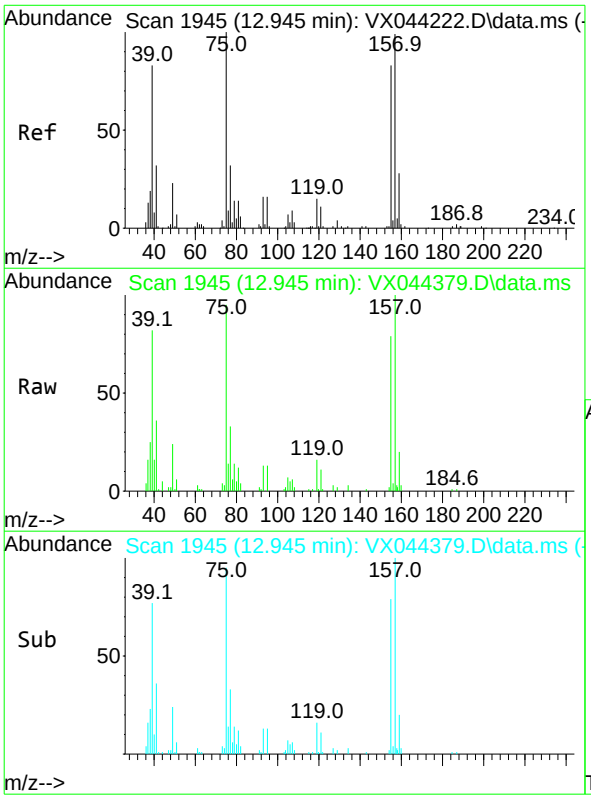
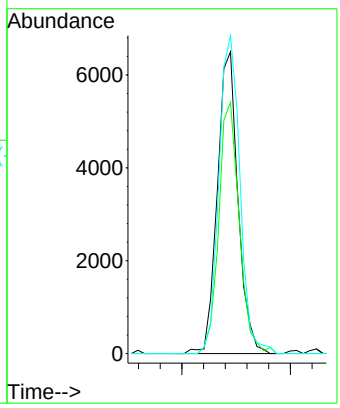
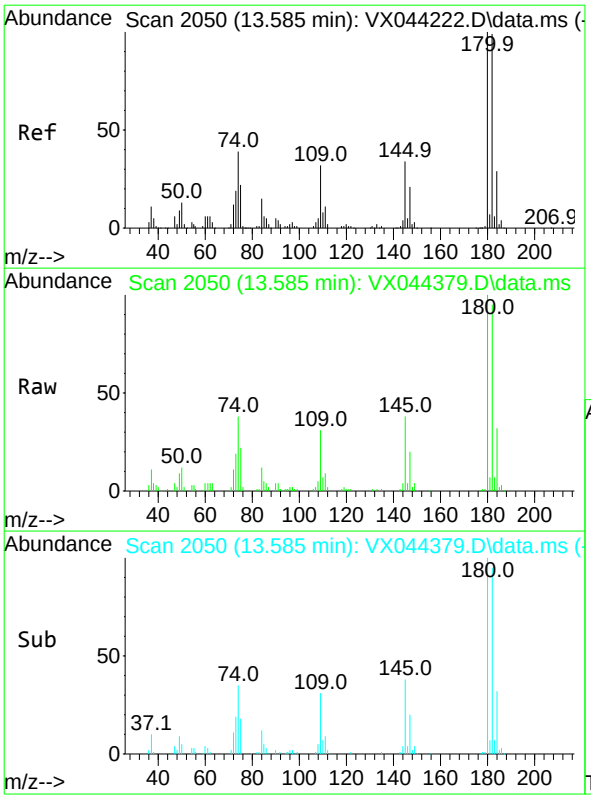


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.383 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 8581

Ion	Ratio	Lower	Upper
75	100		
155	82.6	38.1	114.3
157	106.9	47.2	141.6

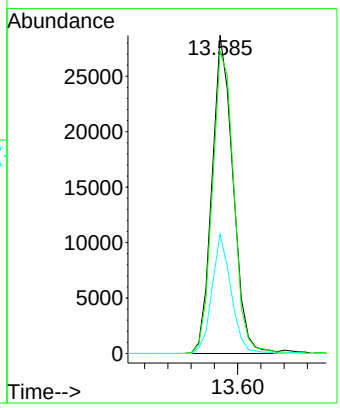




#93
1,2,4-Trichlorobenzene
Concen: 19.257 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:180 Resp: 36071

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.0	144.2
145	34.2	16.6	49.7



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Manual Integrations APPROVED

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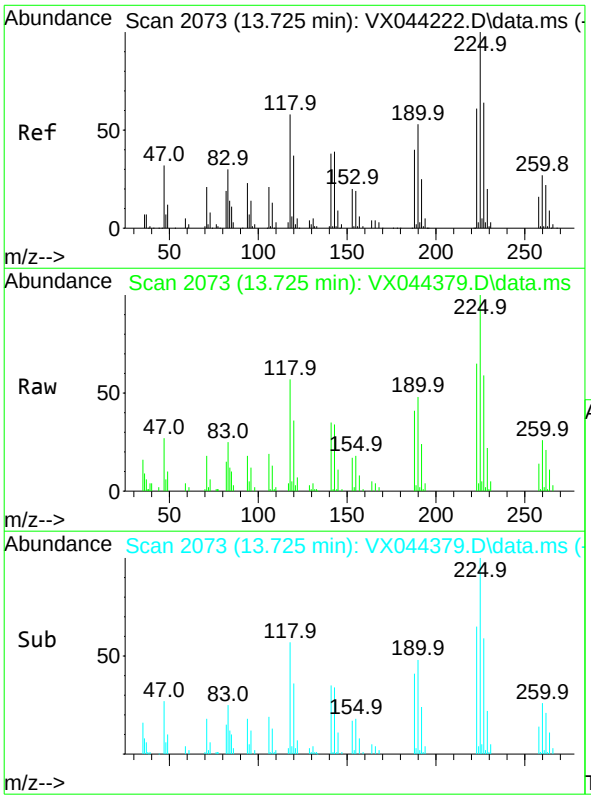
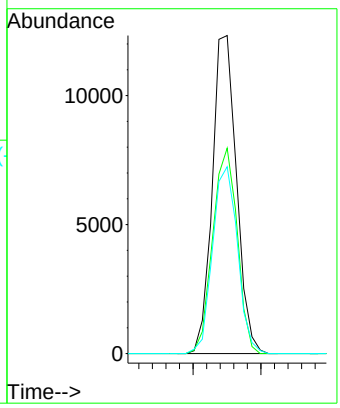
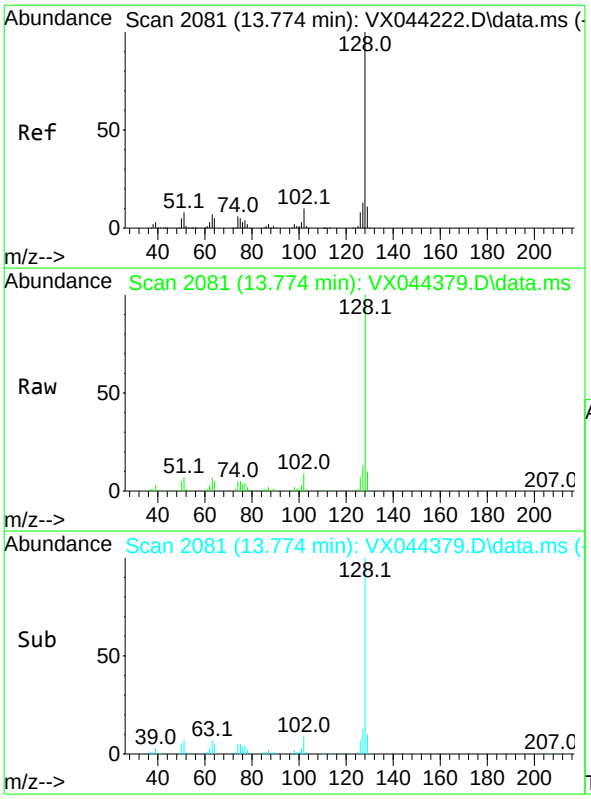


#94
Hexachlorobutadiene
Concen: 20.290 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:225 Resp: 15287

Ion	Ratio	Lower	Upper
225	100		
223	65.2	30.8	92.4
227	60.5	32.1	96.3

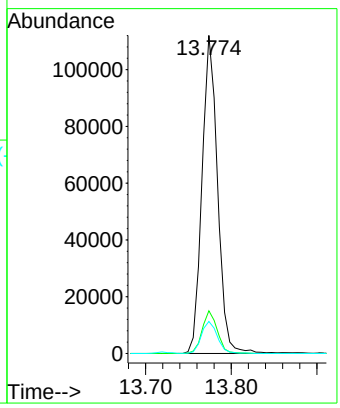




#95
Naphthalene
Concen: 19.320 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:128 Resp: 141260

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.4	9.0	13.4



Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

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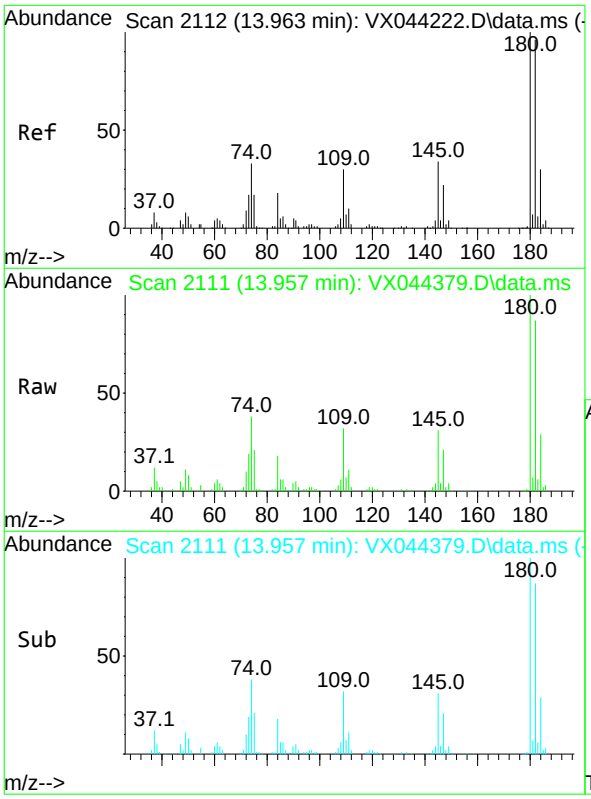
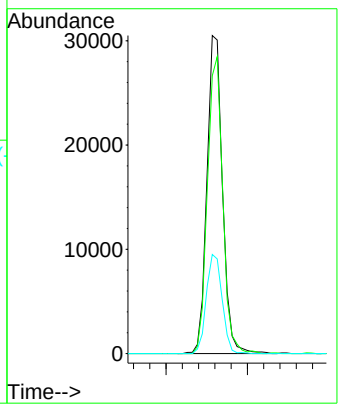


#96
1,2,3-Trichlorobenzene
Concen: 20.374 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:180 Resp: 40477

Ion	Ratio	Lower	Upper
180	100		
182	92.0	48.0	144.0
145	31.6	17.7	53.1



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

Manual Integration Report

Sequence:	vx121124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX044219.D	1,1-Dichloropropene	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,4-Dichlorobenzene	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	1,4-Dioxane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	Chloroethane	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC001	VX044219.D	Methacrylonitrile	JOHN	12/12/2024 9:55:42 AM	MMDadoda	12/12/2024 2:17:09 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	1,4-Dioxane	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC005	VX044220.D	Tert butyl alcohol	JOHN	12/12/2024 9:55:46 AM	MMDadoda	12/12/2024 2:17:07 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	1,4-Dioxane	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICC020	VX044221.D	Tert butyl alcohol	JOHN	12/12/2024 9:56:10 AM	MMDadoda	12/12/2024 2:17:06 PM	Peak Integrated by Software
VSTDICCC050	VX044222.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx121124	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC050	VX044222.D	1,4-Dioxane	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software
VSTDICCC050	VX044222.D	Tert butyl alcohol	JOHN	12/12/2024 9:56:15 AM	MMDadoda	12/12/2024 2:17:04 PM	Peak Integrated by Software
VSTDICC100	VX044223.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:19 AM	MMDadoda	12/12/2024 2:17:02 PM	Peak Integrated by Software
VSTDICC100	VX044223.D	1,4-Dioxane	JOHN	12/12/2024 9:56:19 AM	MMDadoda	12/12/2024 2:17:02 PM	Peak Integrated by Software
VSTDICC150	VX044224.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:22 AM	MMDadoda	12/12/2024 2:17:00 PM	Peak Integrated by Software
VSTDICC150	VX044224.D	1,4-Dioxane	JOHN	12/12/2024 9:56:22 AM	MMDadoda	12/12/2024 2:17:00 PM	Peak Integrated by Software
VSTDICV050	VX044226.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:56:27 AM	MMDadoda	12/12/2024 2:16:58 PM	Peak Integrated by Software
VSTDICV050	VX044226.D	1,4-Dioxane	JOHN	12/12/2024 9:56:27 AM	MMDadoda	12/12/2024 2:16:58 PM	Peak Integrated by Software
VSTDCCC050	VX044238.D	1,2,3-Trichloropropane	JOHN	12/12/2024 9:59:41 AM	MMDadoda	12/12/2024 2:16:39 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX121824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044375.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:17:30 AM	MMDadoda	12/20/2024 10:51:29 AM	Peak Integrated by Software
VX1218WBS01	VX044378.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:17:35 AM	MMDadoda	12/20/2024 10:51:27 AM	Peak Integrated by Software
VX1218WBSD01	VX044379.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:17:39 AM	MMDadoda	12/20/2024 10:51:25 AM	Peak Integrated by Software
VX1218WBSD01	VX044379.D	1,4-Dioxane	JOHN	12/20/2024 10:17:39 AM	MMDadoda	12/20/2024 10:51:25 AM	Peak Integrated by Software
P5281-08	VX044382.D	2-Butanone	JOHN	12/20/2024 10:17:44 AM	MMDadoda	12/20/2024 10:51:23 AM	Peak Integrated by Software
P5281-05	VX044391.D	Chloroform	JOHN	12/20/2024 10:27:54 AM	MMDadoda	12/20/2024 10:51:21 AM	Peak Integrated by Software
P5281-07	VX044393.D	Chloroform	JOHN	12/20/2024 10:27:59 AM	MMDadoda	12/20/2024 10:51:19 AM	Peak Integrated by Software
VSTDCCC050	VX044395.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:28:03 AM	MMDadoda	12/20/2024 10:51:17 AM	Peak Integrated by Software
VSTDCCC050	VX044397.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:28:08 AM	MMDadoda	12/20/2024 10:51:13 AM	Peak Integrated by Software
VSTDCCC050	VX044419.D	1,2,3-Trichloropropane	JOHN	12/20/2024 10:30:08 AM	MMDadoda	12/20/2024 10:51:00 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX122024	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044438.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:23:58 AM	MMDadoda	12/24/2024 12:27:10 AM	Peak Integrated by Software
VX1220WBS01	VX044441.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:23:59 AM	MMDadoda	12/24/2024 12:27:12 AM	Peak Integrated by Software
VSTDCCC050	VX044464.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:15 AM	MMDadoda	12/24/2024 12:27:25 AM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/12/2024 2:17:22 PM		
SubDirectory	VX121124	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132057
Initial Calibration Stds	VP132059,VP132060,VP132061,VP132062,VP132063,VP132064
CCC	VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139
Internal Standard/PEM	
ICV/I.BLK	VP132065
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044218.D	11 Dec 2024 10:13	JC/MD	Ok
2	VSTDICC001	VX044219.D	11 Dec 2024 10:41	JC/MD	Ok,M
3	VSTDICC005	VX044220.D	11 Dec 2024 11:27	JC/MD	Ok,M
4	VSTDICC020	VX044221.D	11 Dec 2024 11:50	JC/MD	Ok,M
5	VSTDICCC050	VX044222.D	11 Dec 2024 12:14	JC/MD	Ok,M
6	VSTDICC100	VX044223.D	11 Dec 2024 12:37	JC/MD	Ok,M
7	VSTDICC150	VX044224.D	11 Dec 2024 13:00	JC/MD	Ok,M
8	IBLK	VX044225.D	11 Dec 2024 13:23	JC/MD	Ok
9	VSTDICV050	VX044226.D	11 Dec 2024 13:51	JC/MD	Ok,M
10	VX1211MBL01	VX044227.D	11 Dec 2024 14:28	JC/MD	Ok
11	VX1211WBL01	VX044228.D	11 Dec 2024 14:51	JC/MD	Ok
12	VX1211WBS01	VX044229.D	11 Dec 2024 15:42	JC/MD	Ok,M
13	VX1211WBSD01	VX044230.D	11 Dec 2024 16:08	JC/MD	Ok,M
14	IBLK	VX044231.D	11 Dec 2024 16:31	JC/MD	Ok
15	P4368-07 0.2PPB	VX044232.D	11 Dec 2024 16:54	JC/MD	Ok,M
16	P4368-07 0.5PPB	VX044233.D	11 Dec 2024 17:18	JC/MD	Ok,M
17	P4368-07 0.75PPB	VX044234.D	11 Dec 2024 17:41	JC/MD	Ok,M
18	P4368-07 2.5PPB	VX044235.D	11 Dec 2024 18:04	JC/MD	Ok,M
19	P4368-08 1.0PPB	VX044236.D	11 Dec 2024 18:28	JC/MD	Ok,M
20	P4368-08 5.0PPB	VX044237.D	11 Dec 2024 18:51	JC/MD	Ok,M
21	VSTDCCC050	VX044238.D	11 Dec 2024 19:14	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044374.D	18 Dec 2024 08:15	JC/MD	Ok
2	VSTDCCC050	VX044375.D	18 Dec 2024 11:57	JC/MD	Ok,M
3	VX1218MBL01	VX044376.D	18 Dec 2024 12:25	JC/MD	Ok
4	VX1218WBL01	VX044377.D	18 Dec 2024 12:48	JC/MD	Ok
5	VX1218WBS01	VX044378.D	18 Dec 2024 13:11	JC/MD	Ok,M
6	VX1218WBSD01	VX044379.D	18 Dec 2024 13:38	JC/MD	Ok,M
7	P5261-19DL	VX044380.D	18 Dec 2024 14:01	JC/MD	Ok
8	P5281-04	VX044381.D	18 Dec 2024 14:24	JC/MD	Ok
9	P5281-08	VX044382.D	18 Dec 2024 14:48	JC/MD	Ok,M
10	P5281-09	VX044383.D	18 Dec 2024 15:11	JC/MD	Ok
11	P5280-02	VX044384.D	18 Dec 2024 15:34	JC/MD	Ok
12	P5280-06	VX044385.D	18 Dec 2024 15:58	JC/MD	Ok
13	P5280-07	VX044386.D	18 Dec 2024 16:21	JC/MD	Ok
14	P5280-08	VX044387.D	18 Dec 2024 16:45	JC/MD	Ok
15	P5281-01	VX044388.D	18 Dec 2024 17:08	JC/MD	Dilution
16	P5281-02	VX044389.D	18 Dec 2024 17:32	JC/MD	ReRun
17	P5281-03	VX044390.D	18 Dec 2024 17:55	JC/MD	Ok
18	P5281-05	VX044391.D	18 Dec 2024 18:18	JC/MD	Ok,M
19	P5281-06	VX044392.D	18 Dec 2024 18:42	JC/MD	Dilution
20	P5281-07	VX044393.D	18 Dec 2024 19:05	JC/MD	Ok,M
21	P5261-12	VX044394.D	18 Dec 2024 19:28	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VX044395.D	18 Dec 2024 19:52	JC/MD	Ok,M
23	BFB	VX044396.D	18 Dec 2024 21:02	JC/MD	Ok
24	VSTDCCC050	VX044397.D	18 Dec 2024 21:48	JC/MD	Ok,M
25	VX1218WBL02	VX044398.D	18 Dec 2024 22:59	JC/MD	Ok
26	VX1218WBS02	VX044399.D	18 Dec 2024 23:22	JC/MD	Ok,M
27	VX1218WBSD02	VX044400.D	18 Dec 2024 23:45	JC/MD	Ok,M
28	P5317-01	VX044401.D	19 Dec 2024 00:13	JC/MD	Ok,M
29	P5317-02	VX044402.D	19 Dec 2024 00:37	JC/MD	Dilution
30	P5317-03	VX044403.D	19 Dec 2024 01:00	JC/MD	ReRun
31	P5317-04	VX044404.D	19 Dec 2024 01:24	JC/MD	Ok
32	P5317-05	VX044405.D	19 Dec 2024 01:47	JC/MD	Ok
33	P5317-07	VX044406.D	19 Dec 2024 02:10	JC/MD	Ok
34	P5317-08	VX044407.D	19 Dec 2024 02:34	JC/MD	Ok
35	P5317-09	VX044408.D	19 Dec 2024 02:57	JC/MD	Ok
36	P5317-10	VX044409.D	19 Dec 2024 03:21	JC/MD	Ok
37	P5317-12	VX044410.D	19 Dec 2024 03:44	JC/MD	Ok
38	P5317-13	VX044411.D	19 Dec 2024 04:07	JC/MD	Ok
39	P5317-14	VX044412.D	19 Dec 2024 04:31	JC/MD	Ok
40	P5317-15	VX044413.D	19 Dec 2024 04:54	JC/MD	Ok
41	P5317-16	VX044414.D	19 Dec 2024 05:17	JC/MD	Ok
42	P5317-23	VX044415.D	19 Dec 2024 05:41	JC/MD	Ok
43	P5317-18	VX044416.D	19 Dec 2024 06:04	JC/MD	Ok
44	P5317-19MS	VX044417.D	19 Dec 2024 06:28	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P5317-20MSD	VX044418.D	19 Dec 2024 06:51	JC/MD	Ok,M
46	VSTDCCC050	VX044419.D	19 Dec 2024 07:14	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM		
SubDirectory	VX122024	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132253
Initial Calibration Stds	
CCC	VP132254,VP132255
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044437.D	20 Dec 2024 08:49	JC/MD	Ok
2	VSTDCCC050	VX044438.D	20 Dec 2024 09:16	JC/MD	Ok,M
3	VX1220MBL01	VX044439.D	20 Dec 2024 10:00	JC/MD	Ok
4	VX1220WBL01	VX044440.D	20 Dec 2024 10:23	JC/MD	Ok
5	VX1220WBS01	VX044441.D	20 Dec 2024 10:46	JC/MD	Ok,M
6	VX1220WBSD01	VX044442.D	20 Dec 2024 11:16	JC/MD	Ok,M
7	P5261-12DL	VX044443.D	20 Dec 2024 11:39	JC/MD	Ok
8	P5281-01DL	VX044444.D	20 Dec 2024 12:03	JC/MD	Ok
9	P5314-01	VX044445.D	20 Dec 2024 12:26	JC/MD	Ok
10	P5314-03	VX044446.D	20 Dec 2024 12:49	JC/MD	Ok
11	P5314-02	VX044447.D	20 Dec 2024 13:13	JC/MD	Dilution
12	P5314-04	VX044448.D	20 Dec 2024 13:36	JC/MD	ReRun
13	P5314-02DL	VX044449.D	20 Dec 2024 13:59	JC/MD	Ok,M
14	P5317-02DL	VX044450.D	20 Dec 2024 14:23	JC/MD	Ok
15	P5281-02	VX044451.D	20 Dec 2024 14:46	JC/MD	Ok
16	P5317-03	VX044452.D	20 Dec 2024 15:09	JC/MD	Ok,M
17	P5356-01	VX044453.D	20 Dec 2024 15:33	JC/MD	Ok
18	P5314-04	VX044454.D	20 Dec 2024 15:56	JC/MD	Ok
19	P5281-06DL	VX044455.D	20 Dec 2024 16:19	JC/MD	Ok
20	P5330-04	VX044456.D	20 Dec 2024 16:43	JC/MD	Ok
21	PB165734TB	VX044457.D	20 Dec 2024 17:06	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM		
SubDirectory	VX122024	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132253
Initial Calibration Stds	
CCC	VP132254,VP132255
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5280-03	VX044458.D	20 Dec 2024 17:30	JC/MD	Ok
23	P5280-04MS	VX044459.D	20 Dec 2024 17:53	JC/MD	Ok,M
24	P5280-05MSD	VX044460.D	20 Dec 2024 18:16	JC/MD	Ok,M
25	P5261-13MS	VX044461.D	20 Dec 2024 18:39	JC/MD	Ok,M
26	P5261-14MSD	VX044462.D	20 Dec 2024 19:03	JC/MD	Ok,M
27	P5355-02	VX044463.D	20 Dec 2024 19:26	JC/MD	Ok
28	VSTDCCC050	VX044464.D	20 Dec 2024 19:49	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/12/2024 2:17:22 PM		
SubDirectory	VX121124	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132057
Initial Calibration Stds	VP132059,VP132060,VP132061,VP132062,VP132063,VP132064
CCC	VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139
Internal Standard/PEM	
ICV/I.BLK	VP132065
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044218.D	11 Dec 2024 10:13		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX044219.D	11 Dec 2024 10:41		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX044220.D	11 Dec 2024 11:27		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX044221.D	11 Dec 2024 11:50		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX044222.D	11 Dec 2024 12:14		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX044223.D	11 Dec 2024 12:37		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX044224.D	11 Dec 2024 13:00		JC/MD	Ok,M
8	IBLK	IBLK	VX044225.D	11 Dec 2024 13:23		JC/MD	Ok
9	VSTDICV050	ICVVX121124	VX044226.D	11 Dec 2024 13:51		JC/MD	Ok,M
10	VX1211MBL01	VX1211MBL01	VX044227.D	11 Dec 2024 14:28		JC/MD	Ok
11	VX1211WBL01	VX1211WBL01	VX044228.D	11 Dec 2024 14:51		JC/MD	Ok
12	VX1211WBS01	VX1211WBS01	VX044229.D	11 Dec 2024 15:42		JC/MD	Ok,M
13	VX1211WBSD01	VX1211WBSD01	VX044230.D	11 Dec 2024 16:08		JC/MD	Ok,M
14	IBLK	IBLK	VX044231.D	11 Dec 2024 16:31		JC/MD	Ok
15	P4368-07 0.2PPB	LOD-MDL-WATER-01-(	VX044232.D	11 Dec 2024 16:54		JC/MD	Ok,M
16	P4368-07 0.5PPB	LOD-MDL-WATER-01-(	VX044233.D	11 Dec 2024 17:18		JC/MD	Ok,M
17	P4368-07 0.75PPB	LOD-MDL-WATER-01-(	VX044234.D	11 Dec 2024 17:41		JC/MD	Ok,M
18	P4368-07 2.5PPB	LOD-MDL-WATER-01-(	VX044235.D	11 Dec 2024 18:04		JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121124

Review By	John Carlone	Review On	12/12/2024 10:00:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/12/2024 2:17:22 PM		
SubDirectory	VX121124	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132057
Initial Calibration Stds	VP132059,VP132060,VP132061,VP132062,VP132063,VP132064
CCC	VP132059,VP132134,VP132135,VP132136,VP132137,VP132138,VP132139
Internal Standard/PEM	
ICV/I.BLK	VP132065
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4368-08 1.0PPB	LOQ-WATER-02-QT4-2	VX044236.D	11 Dec 2024 18:28		JC/MD	Ok,M
20	P4368-08 5.0PPB	LOQ-WATER-02-QT4-2	VX044237.D	11 Dec 2024 18:51		JC/MD	Ok,M
21	VSTDCCC050	VSTDCCC050EC	VX044238.D	11 Dec 2024 19:14		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
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	VX044374.D	18 Dec 2024 08:15		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044375.D	18 Dec 2024 11:57	V13516	JC/MD	Ok,M
3	VX1218MBL01	VX1218MBL01	VX044376.D	18 Dec 2024 12:25		JC/MD	Ok
4	VX1218WBL01	VX1218WBL01	VX044377.D	18 Dec 2024 12:48		JC/MD	Ok
5	VX1218WBS01	VX1218WBS01	VX044378.D	18 Dec 2024 13:11		JC/MD	Ok,M
6	VX1218WBSD01	VX1218WBSD01	VX044379.D	18 Dec 2024 13:38		JC/MD	Ok,M
7	P5261-19DL	RE120D3-20241210DL	VX044380.D	18 Dec 2024 14:01	vial B pH<2	JC/MD	Ok
8	P5281-04	TT101D2-20241212	VX044381.D	18 Dec 2024 14:24	vial A pH<2	JC/MD	Ok
9	P5281-08	FB02-20241213	VX044382.D	18 Dec 2024 14:48	vial A pH<2 FB	JC/MD	Ok,M
10	P5281-09	TB	VX044383.D	18 Dec 2024 15:11	vial A pH<2 TB	JC/MD	Ok
11	P5280-02	BPOW6-8-20241212	VX044384.D	18 Dec 2024 15:34	vial A pH<2	JC/MD	Ok
12	P5280-06	BPOW6-9-20241212	VX044385.D	18 Dec 2024 15:58	vial A pH<2	JC/MD	Ok
13	P5280-07	BPOW6-10-20241212	VX044386.D	18 Dec 2024 16:21	vial A pH<2	JC/MD	Ok
14	P5280-08	DUP-03-20241212	VX044387.D	18 Dec 2024 16:45	vial A pH<2	JC/MD	Ok
15	P5281-01	RE114D1-20241212	VX044388.D	18 Dec 2024 17:08	vial A pH<2 Need 10X	JC/MD	Dilution
16	P5281-02	BPOW1-7-20241212	VX044389.D	18 Dec 2024 17:32	vial A pH<2 E Flag in Previous Sample	JC/MD	ReRun
17	P5281-03	BPOW1-8-20241212	VX044390.D	18 Dec 2024 17:55	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P5281-05	RE117D1-20241213	VX044391.D	18 Dec 2024 18:18	vial A pH<2	JC/MD	Ok,M
19	P5281-06	RE115D1-20241213	VX044392.D	18 Dec 2024 18:42	vial A pH<2 Need 20X	JC/MD	Dilution
20	P5281-07	TT189D2-20241213	VX044393.D	18 Dec 2024 19:05	vial A pH<2	JC/MD	Ok,M
21	P5261-12	RE125D1-20241210	VX044394.D	18 Dec 2024 19:28	vial A pH<2 Need 5X	JC/MD	Dilution
22	VSTDCCC050	VSTDCCC050EC	VX044395.D	18 Dec 2024 19:52		JC/MD	Ok,M
23	BFB	BFB	VX044396.D	18 Dec 2024 21:02		JC/MD	Ok
24	VSTDCCC050	VSTDCCC050	VX044397.D	18 Dec 2024 21:48		JC/MD	Ok,M
25	VX1218WBL02	VX1218WBL02	VX044398.D	18 Dec 2024 22:59		JC/MD	Ok
26	VX1218WBS02	VX1218WBS02	VX044399.D	18 Dec 2024 23:22		JC/MD	Ok,M
27	VX1218WBSD02	VX1218WBSD02	VX044400.D	18 Dec 2024 23:45		JC/MD	Ok,M
28	P5317-01	RE114D2-20241216	VX044401.D	19 Dec 2024 00:13	vial A pH<2	JC/MD	Ok,M
29	P5317-02	RW4-20241216	VX044402.D	19 Dec 2024 00:37	vial A pH<2 Need 20X	JC/MD	Dilution
30	P5317-03	TT191D1-20241216	VX044403.D	19 Dec 2024 01:00	vial A pH<2 E Flag in Previous Sample	JC/MD	ReRun
31	P5317-04	TT191D2-20241216	VX044404.D	19 Dec 2024 01:24	vial A pH<2	JC/MD	Ok
32	P5317-05	TT163S1-20241216	VX044405.D	19 Dec 2024 01:47	vial A pH<2	JC/MD	Ok
33	P5317-07	RW8-MW01S-2024121	VX044406.D	19 Dec 2024 02:10	vial A pH<2	JC/MD	Ok
34	P5317-08	RW8-MW01D1-202412	VX044407.D	19 Dec 2024 02:34	vial A pH<2	JC/MD	Ok
35	P5317-09	TT158S1-20241217	VX044408.D	19 Dec 2024 02:57	vial A pH<2	JC/MD	Ok
36	P5317-10	TT158I1-20241217	VX044409.D	19 Dec 2024 03:21	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX121824

Review By	John Carlone	Review On	12/20/2024 10:38:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/20/2024 10:51:52 AM		
SubDirectory	VX121824	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132210,VP132216
Initial Calibration Stds	
CCC	VP132211,VP132212,VP132217,VP132218
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	P5317-12	TT172S1-20241217	VX044410.D	19 Dec 2024 03:44	vial A pH<2	JC/MD	Ok
38	P5317-13	RW9-MW01S-2024121	VX044411.D	19 Dec 2024 04:07	vial A pH<2	JC/MD	Ok
39	P5317-14	RW9-MW01D1-202412	VX044412.D	19 Dec 2024 04:31	vial A pH<2	JC/MD	Ok
40	P5317-15	RW9-MW01D2-202412	VX044413.D	19 Dec 2024 04:54	vial A pH<2	JC/MD	Ok
41	P5317-16	RW9-MW01D3-202412	VX044414.D	19 Dec 2024 05:17	vial A pH<2	JC/MD	Ok
42	P5317-23	TB	VX044415.D	19 Dec 2024 05:41	vial A pH<2 TB	JC/MD	Ok
43	P5317-18	RE132D5-20241217	VX044416.D	19 Dec 2024 06:04	vial A pH<2	JC/MD	Ok
44	P5317-19MS	RE132D5-20241217MS	VX044417.D	19 Dec 2024 06:28	vial A pH<2	JC/MD	Ok,M
45	P5317-20MSD	RE132D5-20241217MS	VX044418.D	19 Dec 2024 06:51	vial A pH<2	JC/MD	Ok,M
46	VSTDCCC050	VSTDCCC050EC	VX044419.D	19 Dec 2024 07:14		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM		
SubDirectory	VX122024	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132253
Initial Calibration Stds	
CCC	VP132254,VP132255
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	VX044437.D	20 Dec 2024 08:49		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044438.D	20 Dec 2024 09:16	V13516	JC/MD	Ok,M
3	VX1220MBL01	VX1220MBL01	VX044439.D	20 Dec 2024 10:00		JC/MD	Ok
4	VX1220WBL01	VX1220WBL01	VX044440.D	20 Dec 2024 10:23		JC/MD	Ok
5	VX1220WBS01	VX1220WBS01	VX044441.D	20 Dec 2024 10:46		JC/MD	Ok,M
6	VX1220WBSD01	VX1220WBSD01	VX044442.D	20 Dec 2024 11:16		JC/MD	Ok,M
7	P5261-12DL	RE125D1-20241210DL	VX044443.D	20 Dec 2024 11:39	vial B pH<2	JC/MD	Ok
8	P5281-01DL	RE114D1-20241212DL	VX044444.D	20 Dec 2024 12:03	vial B pH<2	JC/MD	Ok
9	P5314-01	BP-VPB-190A-TB-2024	VX044445.D	20 Dec 2024 12:26	vial A pH<2	JC/MD	Ok
10	P5314-03	BP-VPB-190A-GW-698	VX044446.D	20 Dec 2024 12:49	vial A +B pH<2	JC/MD	Ok
11	P5314-02	BP-VPB-190A-GW-678	VX044447.D	20 Dec 2024 13:13	vial A pH<2 Needs 5x dilution	JC/MD	Dilution
12	P5314-04	VPB190A-HYD-202412	VX044448.D	20 Dec 2024 13:36	vial A pH<2 Carryover	JC/MD	ReRun
13	P5314-02DL	BP-VPB-190A-GW-678	VX044449.D	20 Dec 2024 13:59	vial B pH<2	JC/MD	Ok,M
14	P5317-02DL	RW4-20241216DL	VX044450.D	20 Dec 2024 14:23	vial B pH<2	JC/MD	Ok
15	P5281-02	BPOW1-7-20241212	VX044451.D	20 Dec 2024 14:46	vial B pH<2	JC/MD	Ok
16	P5317-03	TT191D1-20241216	VX044452.D	20 Dec 2024 15:09	vial B pH<2	JC/MD	Ok,M
17	P5356-01	STAND-PIPE	VX044453.D	20 Dec 2024 15:33	vial A pH<2	JC/MD	Ok
18	P5314-04	VPB190A-HYD-202412	VX044454.D	20 Dec 2024 15:56	vial B pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:24:21 AM		
Supervise By	John Carlone	Supervise On	12/23/2024 9:05:17 AM		
SubDirectory	VX122024	HP Acquire Method		HP Processing Method	82X121124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132253
Initial Calibration Stds	
CCC	VP132254,VP132255
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5281-06DL	RE115D1-20241213DL	VX044455.D	20 Dec 2024 16:19	vial B pH<2	JC/MD	Ok
20	P5330-04	TP-5	VX044456.D	20 Dec 2024 16:43	vial A pH#5.0	JC/MD	Ok
21	PB165734TB	PB165734TB	VX044457.D	20 Dec 2024 17:06		JC/MD	Ok
22	P5280-03	BPOW6-11-20241212	VX044458.D	20 Dec 2024 17:30	vial A pH<2	JC/MD	Ok
23	P5280-04MS	BPOW6-11-20241212M	VX044459.D	20 Dec 2024 17:53	vial A pH<2	JC/MD	Ok,M
24	P5280-05MSD	BPOW6-11-20241212M	VX044460.D	20 Dec 2024 18:16	vial A pH<2	JC/MD	Ok,M
25	P5261-13MS	RE125D1-20241210MS	VX044461.D	20 Dec 2024 18:39	vial A pH<2	JC/MD	Ok,M
26	P5261-14MSD	RE125D1-20241210MS	VX044462.D	20 Dec 2024 19:03	vial A pH<2	JC/MD	Ok,M
27	P5355-02	RBR251688	VX044463.D	20 Dec 2024 19:26	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX044464.D	20 Dec 2024 19:49		JC/MD	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : P5281

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VX121824,VX122024,

Standard ID :
VP130430,VP131746,VP131767,VP131987,VP132005,VP132035,VP132096,VP132210,VP132211,VP132212,VP132216,VP132217,VP132218,VP132253,VP132254,VP132255,

Chemical ID :
V13391,V13445,V13457,V13460,V13465,V13466,V13707,V13806,V14020,V14021,V14105,V14106,V14145,V14152,V14154,V14173,V14174,V14192,V14194,V14201,V14289,V14434,V14437,V14614,V14630,V14631,V14632,V14633,V14650,V14651,V14652,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
51	8260 Working STD (Acrolein) -first source, 800PPM	VP131987	12/06/2024	01/05/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14652 + 1.50000ml of V14650 + 1.50000ml of V14651 + 21.00000ml of V14152 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132005	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 0.40000ml of V13445 + 1.00000ml of V13806 + 1.00000ml of V14020 + 1.00000ml of V14021 + 1.00000ml of V14105 + 1.00000ml of V14106 + 1.00000ml of V14173 + 1.00000ml of V14174 + 1.00000ml of V14194 + 1.00000ml of V14434 + 1.00000ml of V14437 + 1.50000ml of V14192 + 1.50000ml of V14201 + 10.60000ml of V14152 = Final Quantity: 25.000 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
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132210	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

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	VP132211	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = 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	VP132212	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132216	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP132217	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = 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	VP132218	12/18/2024	12/19/2024	John Carlone	None	None	Mahesh Dadoda 12/24/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP132253	12/20/2024	12/21/2024	John Carlone	None	None	Mahesh Dadoda 12/23/2024

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	VP132254	12/20/2024	12/21/2024	John Carlone	None	None	Mahesh Dadoda 12/23/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = 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	VP132255	12/20/2024	12/21/2024	John Carlone	None	None	Mahesh Dadoda 12/23/2024

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = Final Quantity: 40.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	11/26/2024 / SAM	01/23/2023 / SAM	V13445

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

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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	03/16/2025	09/16/2024 / SAM	05/31/2023 / SAM	V13806

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)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14020

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)	032922	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14021

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	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14105

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	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14106

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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	04/14/2025	10/14/2024 / SAM	02/06/2024 / SAM	V14152

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	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14173

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	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14174

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	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14192

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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	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14194

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	A0200785	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14434

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	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14437

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14651

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14652

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

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

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

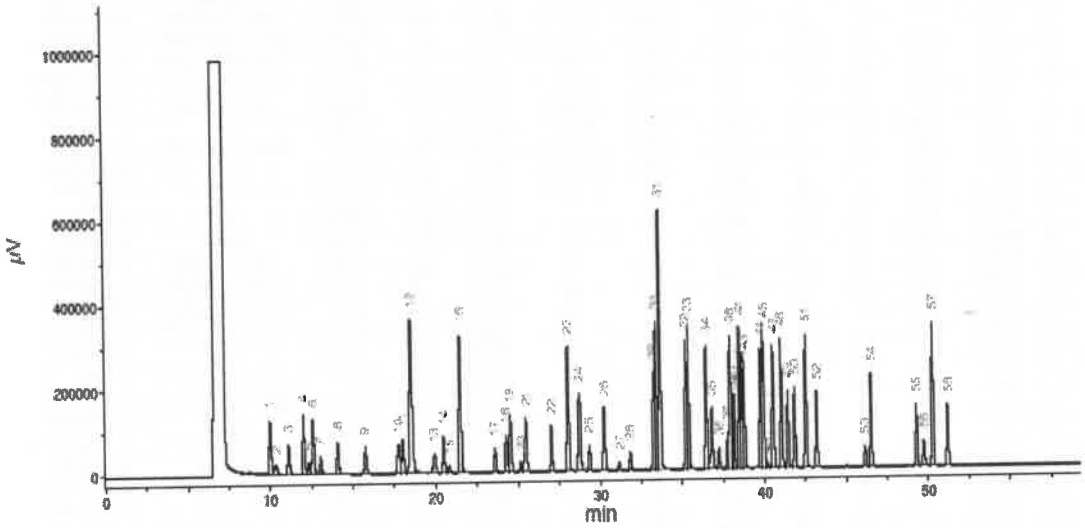
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	(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	40010.6	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 750mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 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

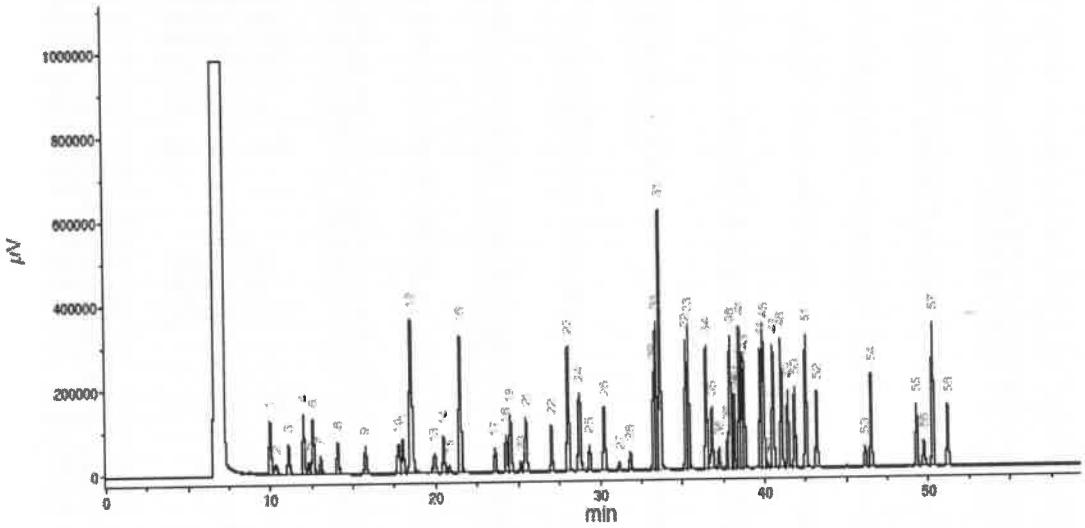
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	40010.6	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 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	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-Dibromoethene	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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

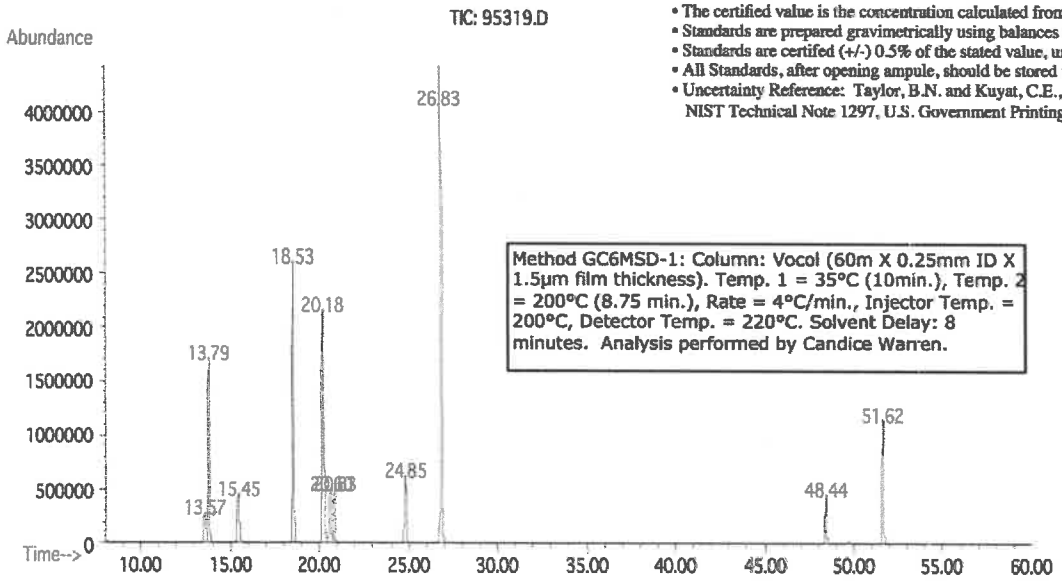
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EC592-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 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	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	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	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8.	Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	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

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

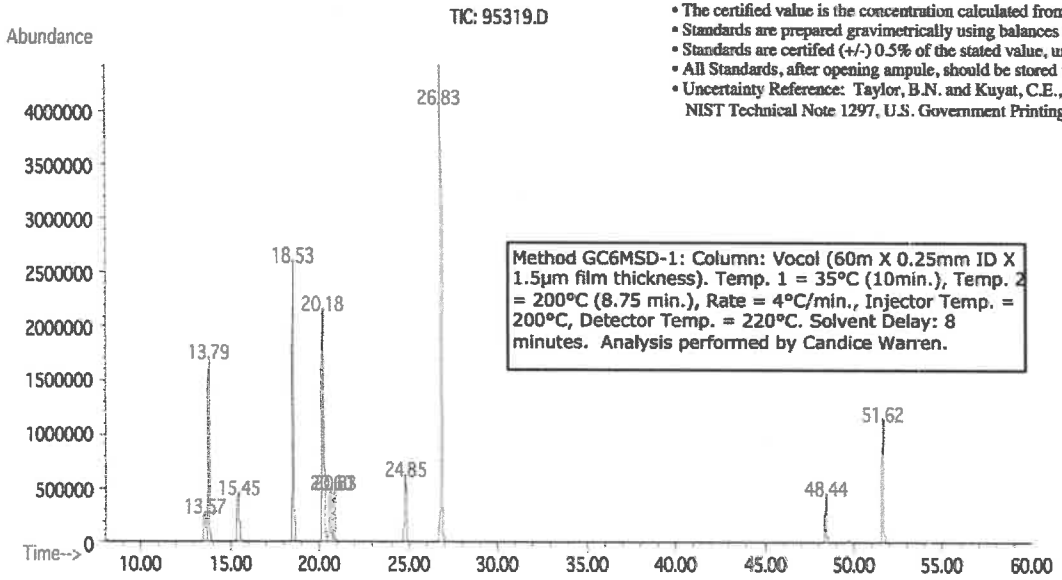
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Solvent(s): **Lot#**
Methanol EC592-US

Formulated By: Prashant Chauhan 032922 DATE

Reviewed By: Pedro L. Rentas 032922 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	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	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	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	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

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

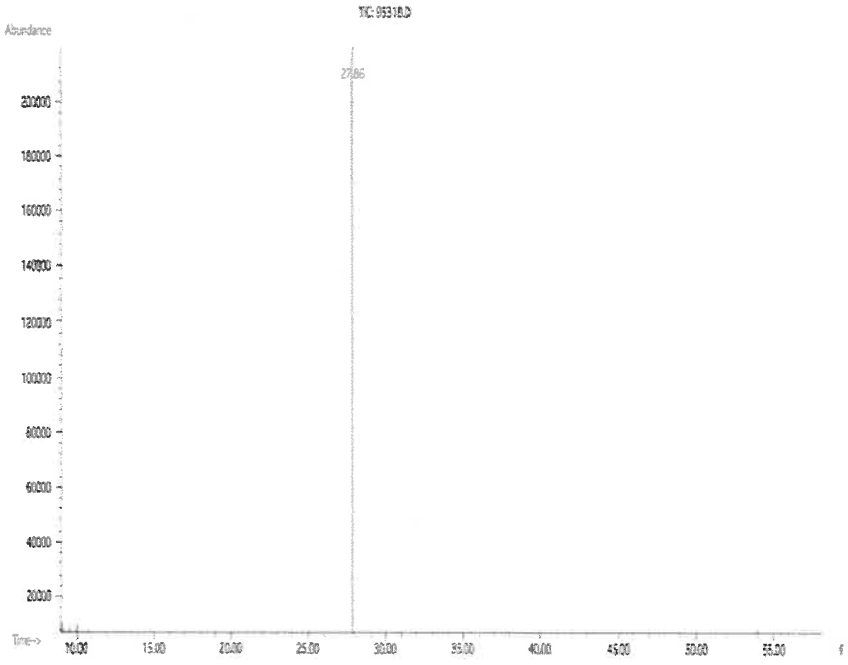
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

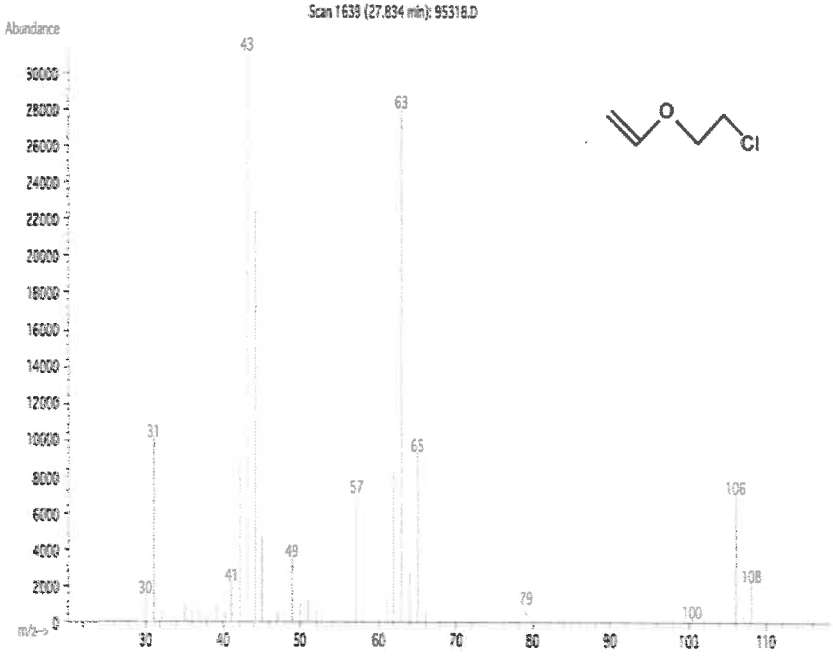
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	120524	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
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P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

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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
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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

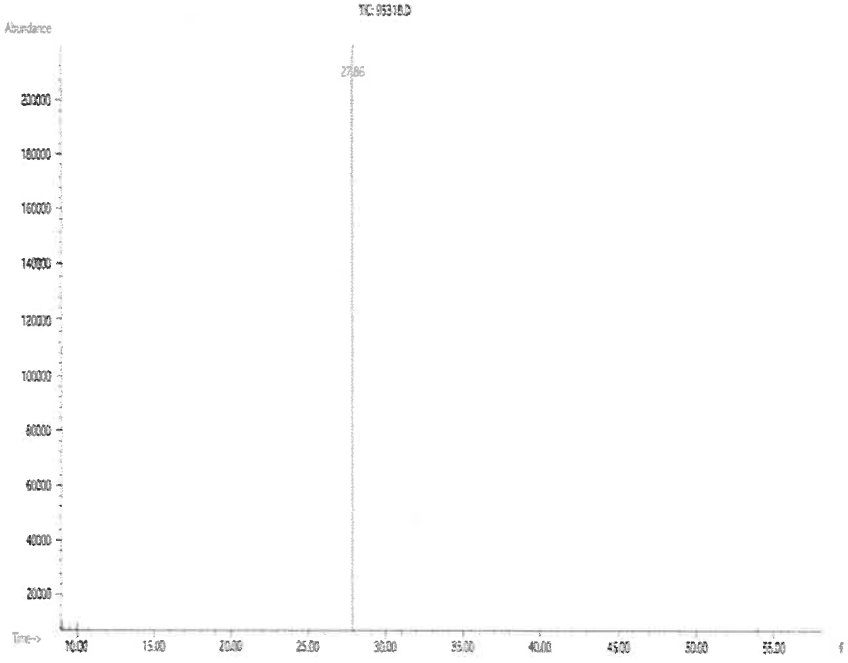
Solvent(s): Methanol **Lot#** EJ143-US

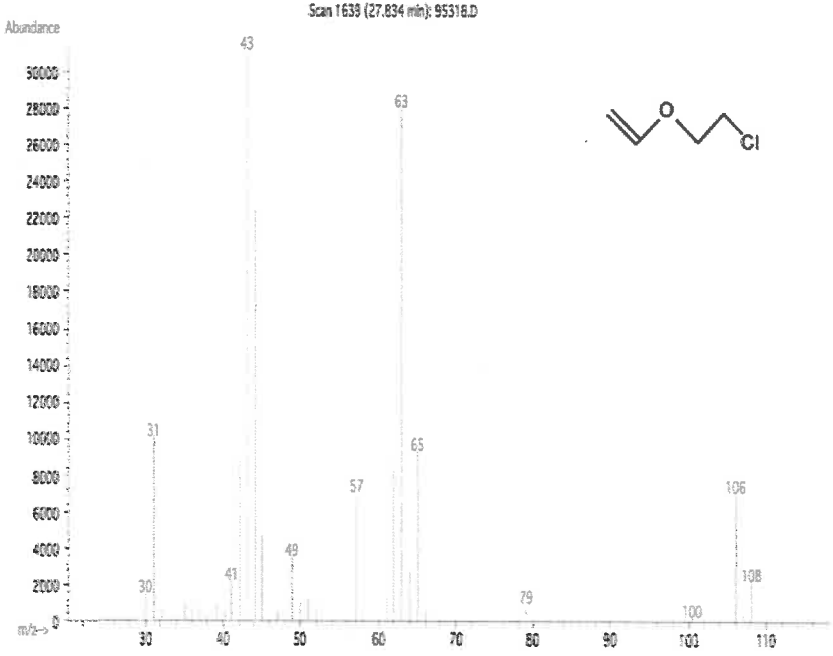
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

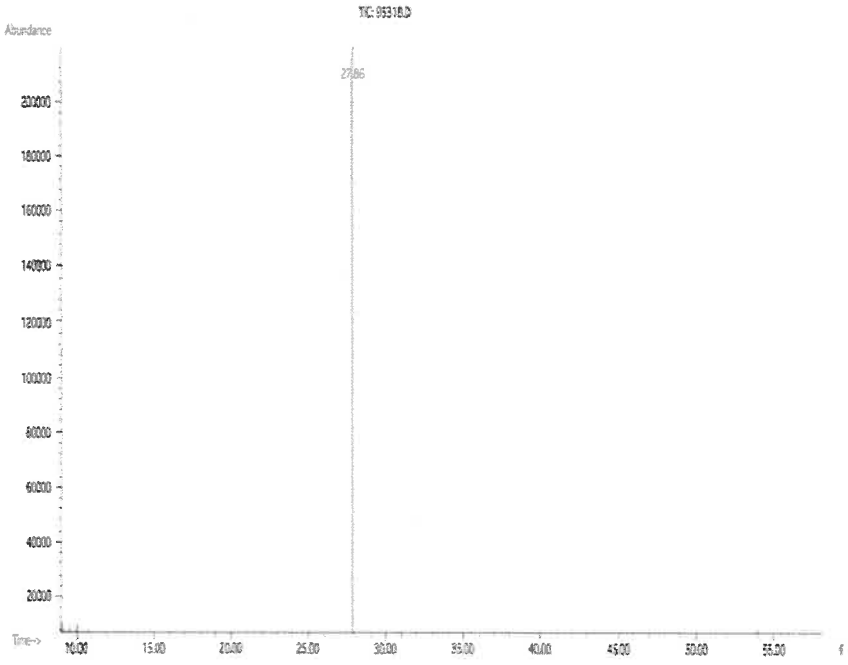
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

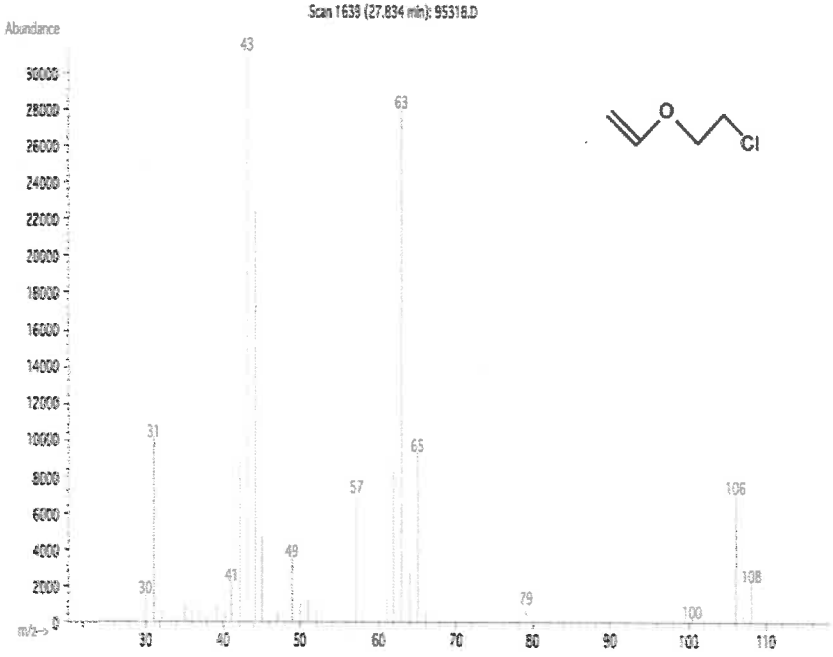
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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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.
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
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Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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CERTIFIED 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

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Formulated By: Prashant Chauhan	DATE
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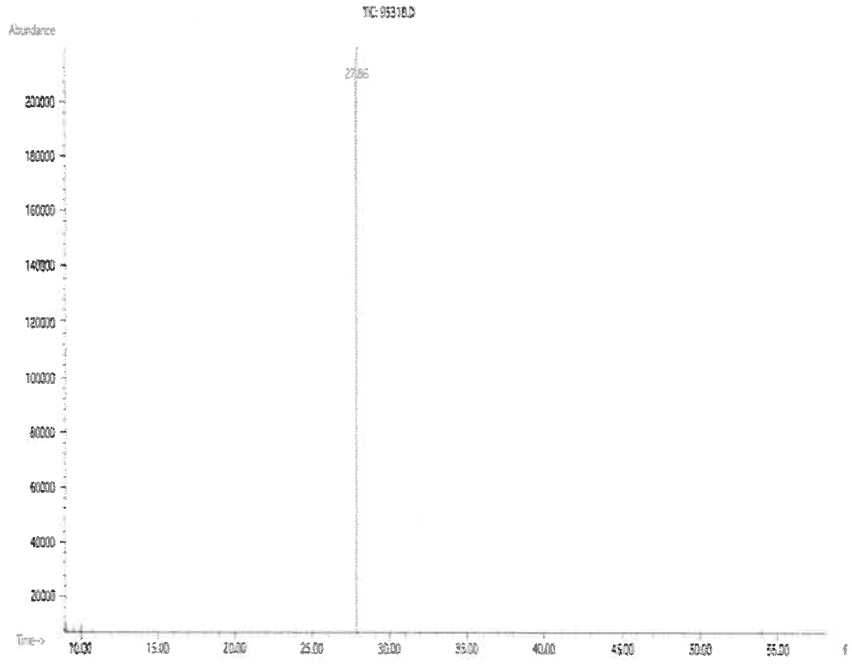
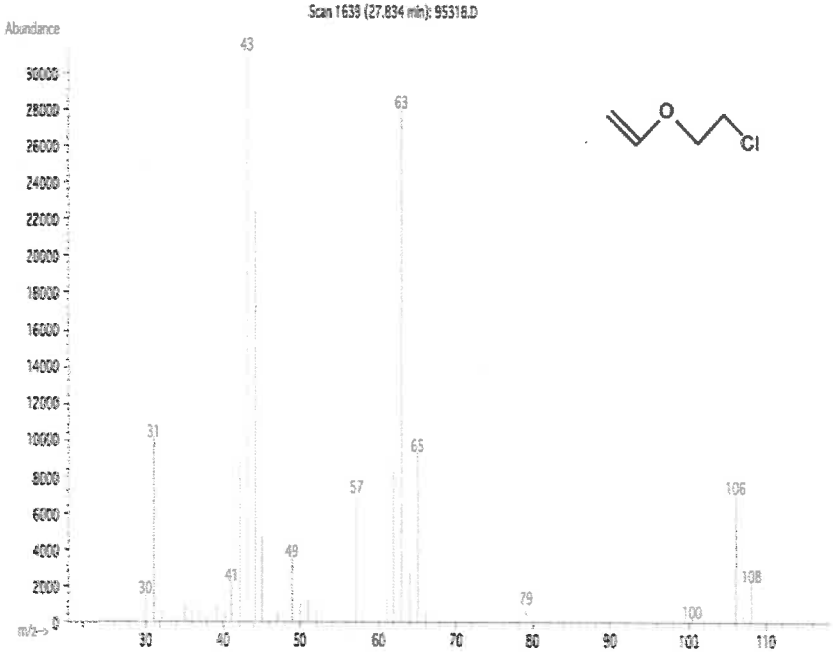
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	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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Section II - Hazards Identification

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Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
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Solubility in Water COMPLETE

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LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
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Certified Reference Material CRM

Rec 12/6/24
5 Vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

V14650-54

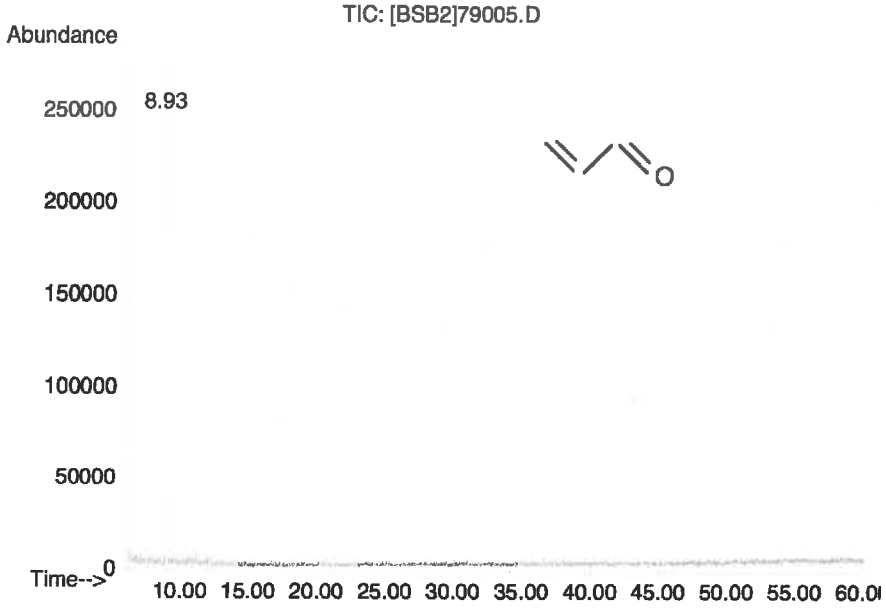
Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	120524	
Reviewed By:	Pedro L. Rentas	DATE

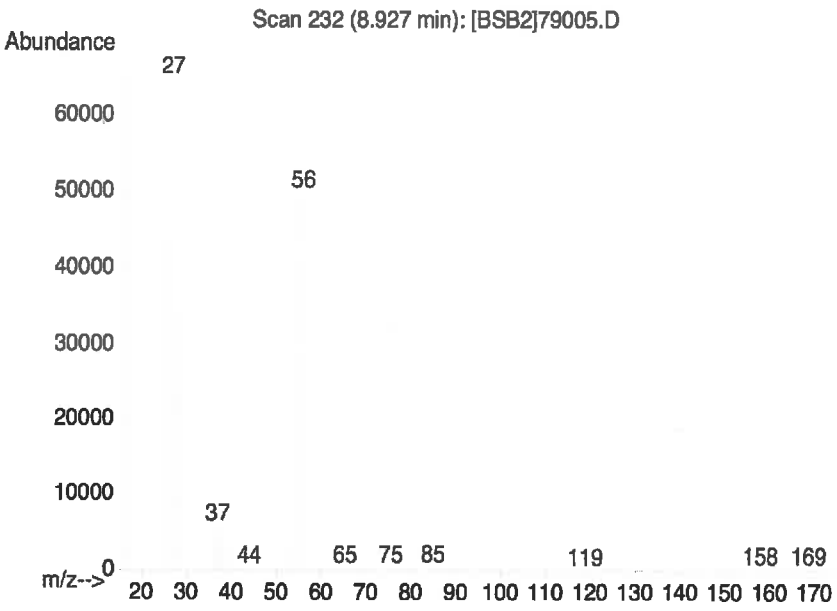
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10320	5006.1	51.8	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA
Solubility in Water	Completely miscible		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
5 Vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

V14650-54

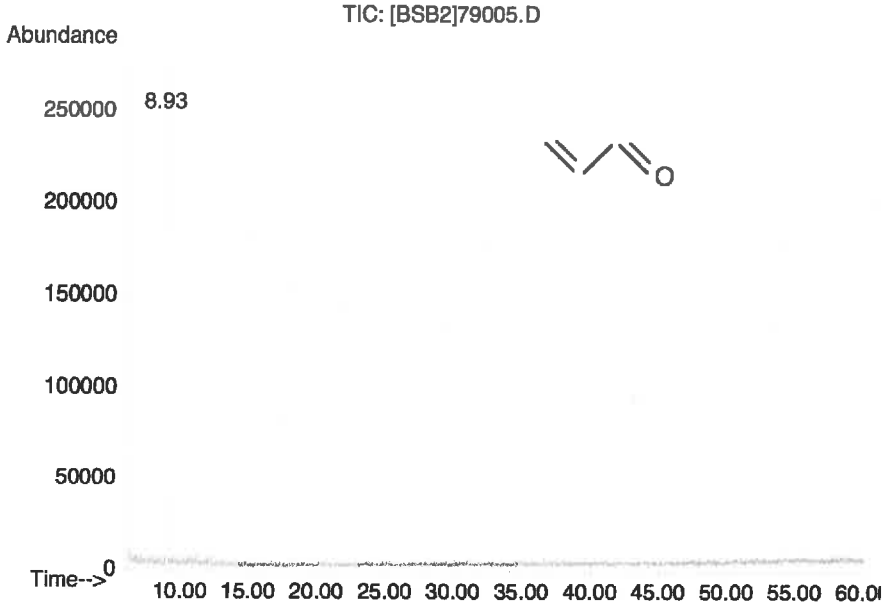
Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

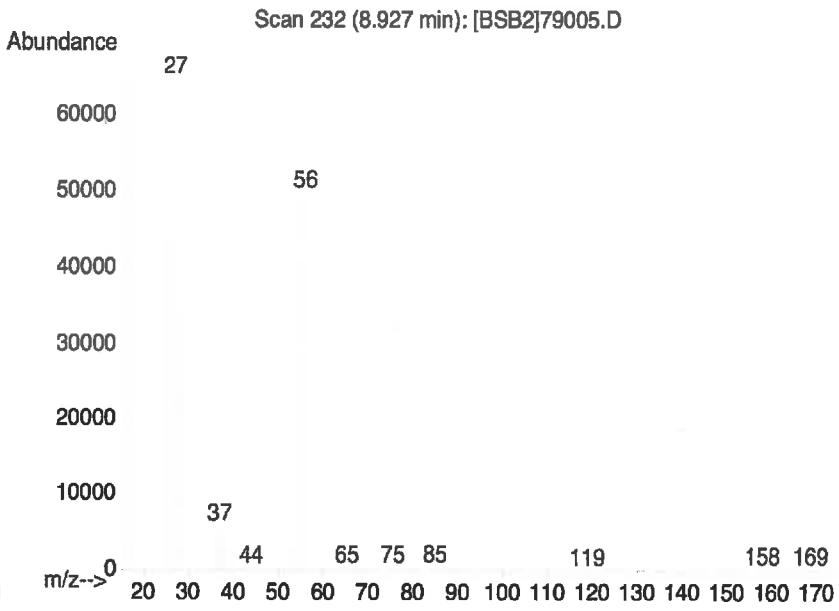
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10320	5006.1	51.8	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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Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

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Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Water	CAS#: 7732-18-5	TWA: 500 ppm

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Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

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Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA
Solubility in Water	Completely miscible		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
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Proper shipping name: Water

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Rec 12/6/24
5 Vial

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V14650-54

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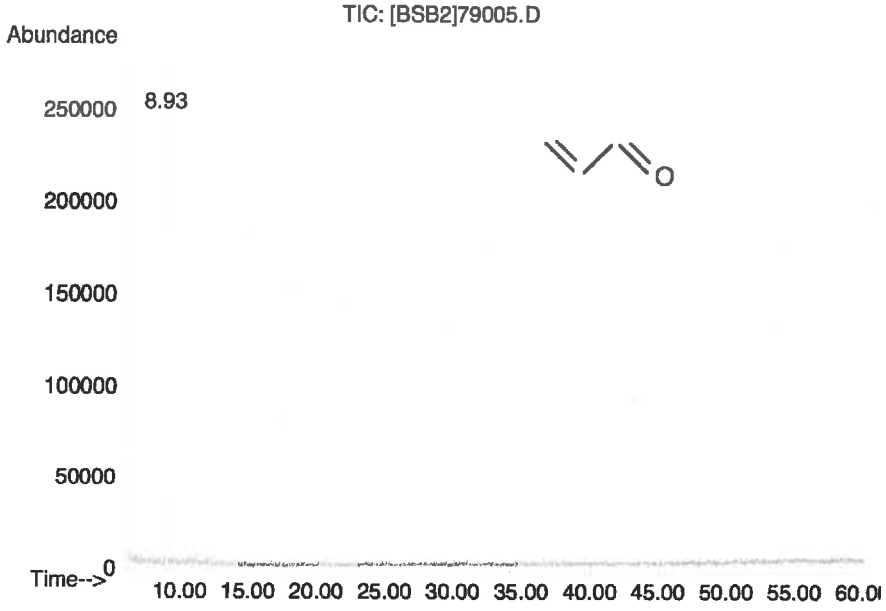

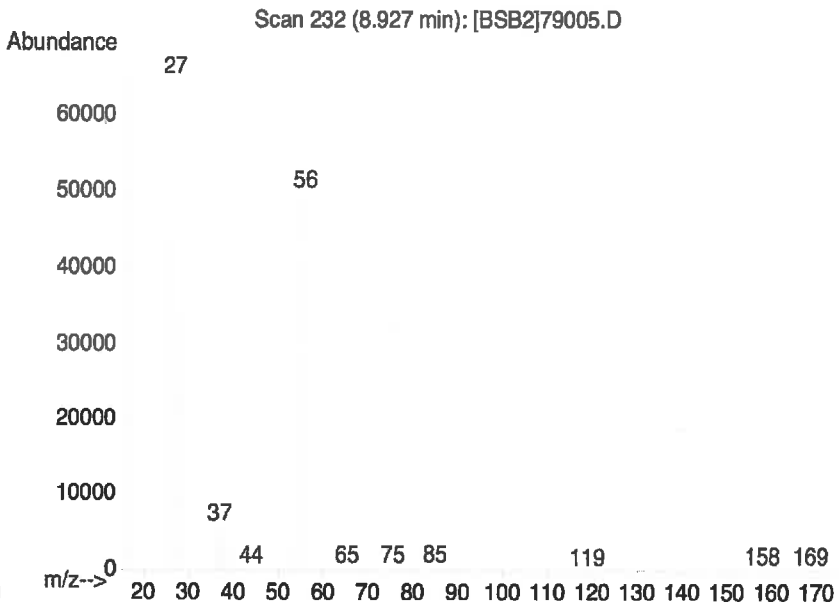

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Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

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Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA
Solubility in Water	Completely miscible		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** 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)

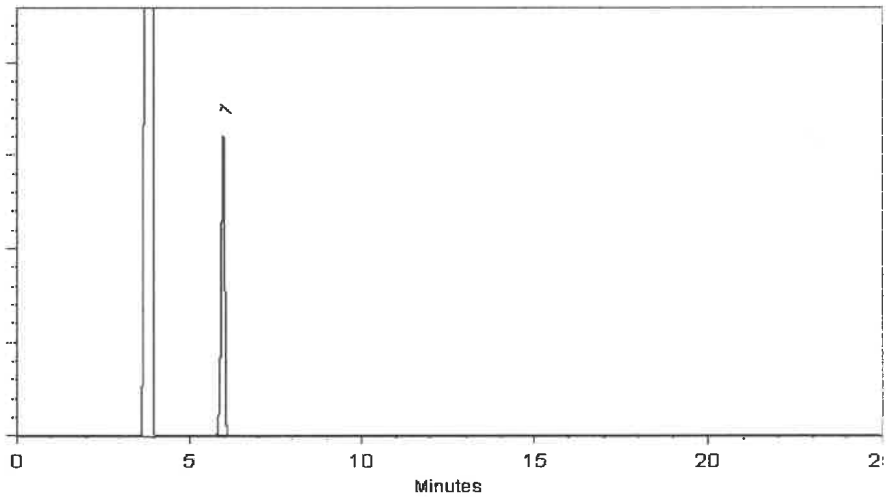
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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



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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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

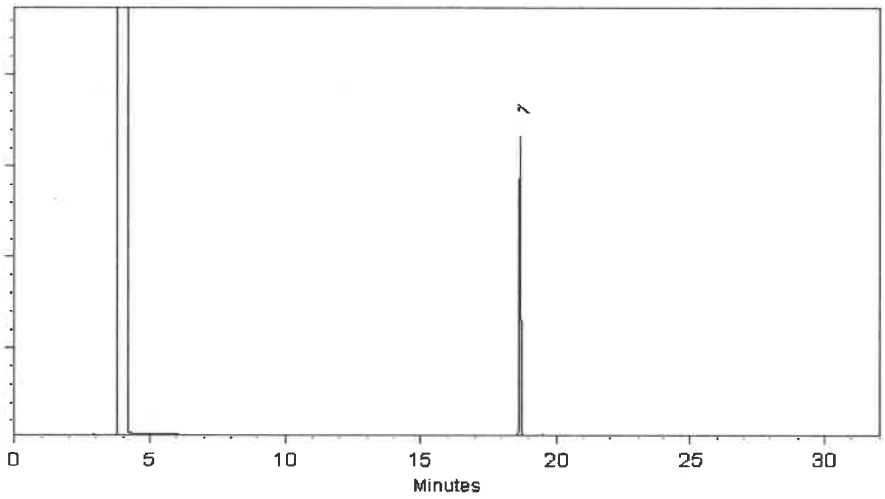
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

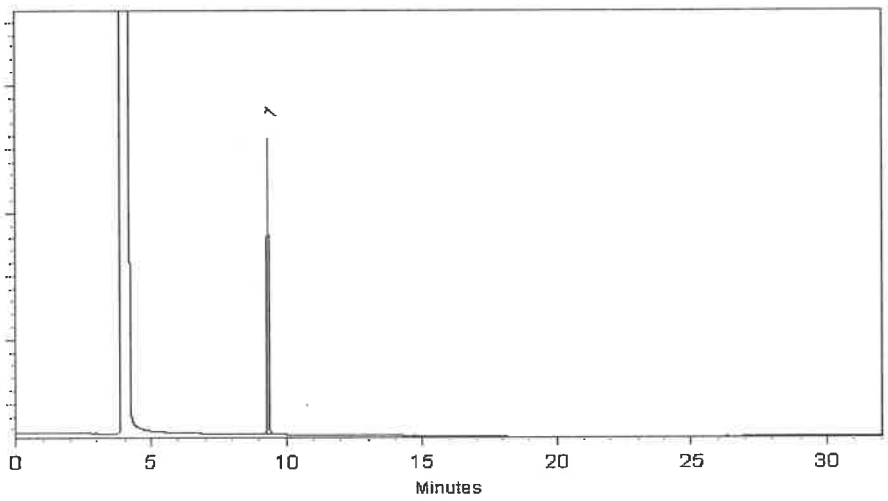
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

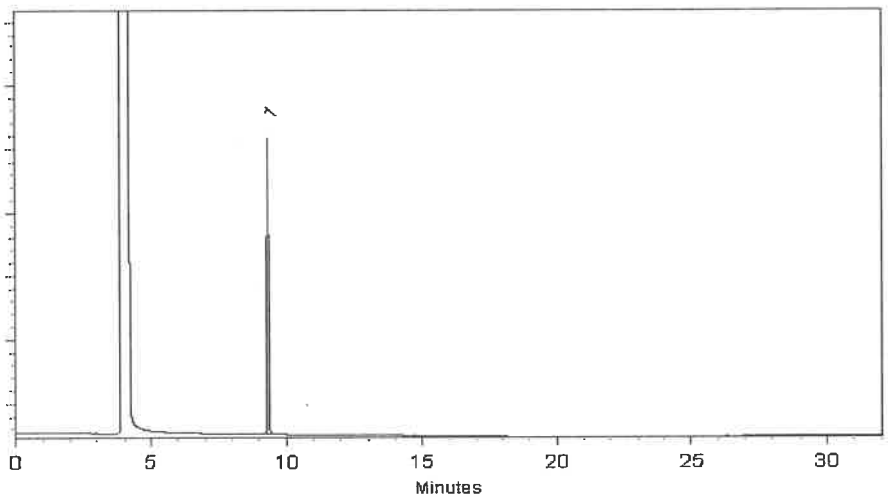
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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Manufacturing Notes:

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Handling Notes:

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Certificate of Analysis

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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

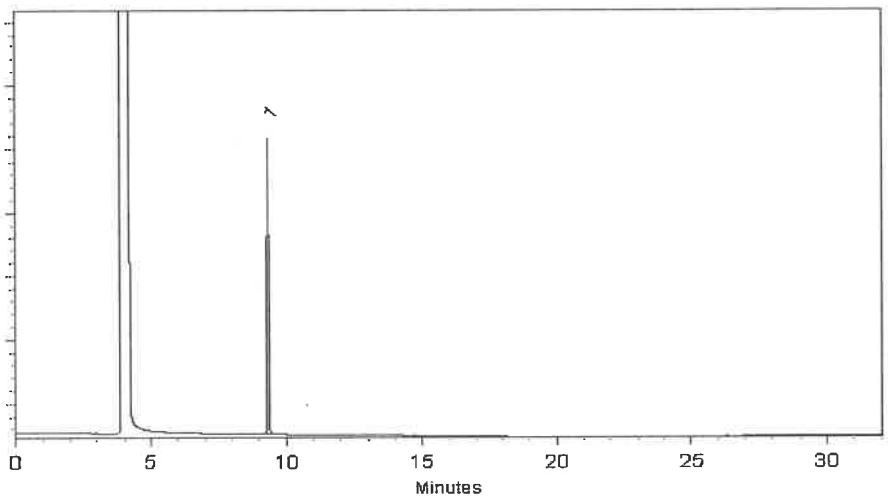
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
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Rtx-502.2 (cat.#10910)

Carrier Gas:
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Temp. Program:
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@ 8°C/min. (hold 5 min.)

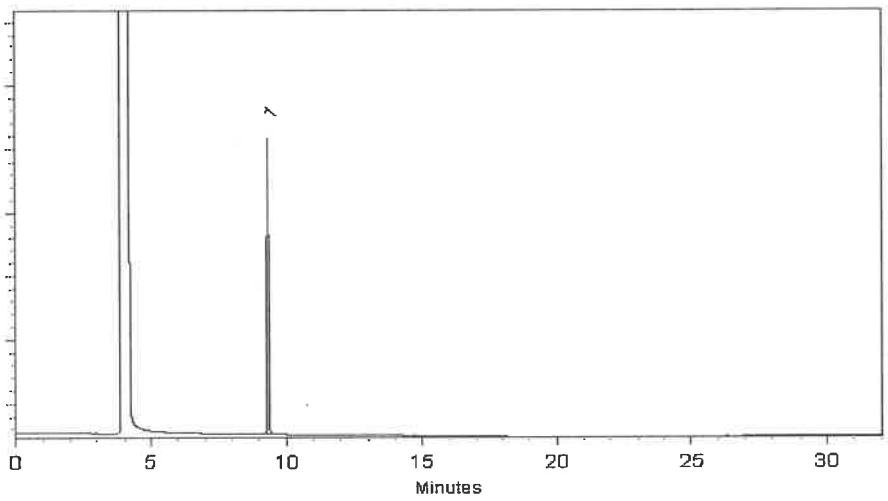
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- 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.

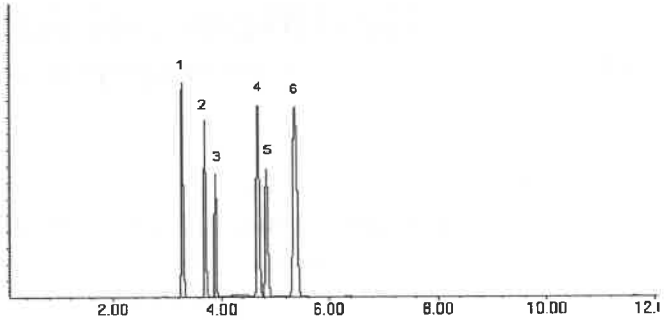
Inj. Temp:
200°C

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.
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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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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.:** A0200785

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 : November 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%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

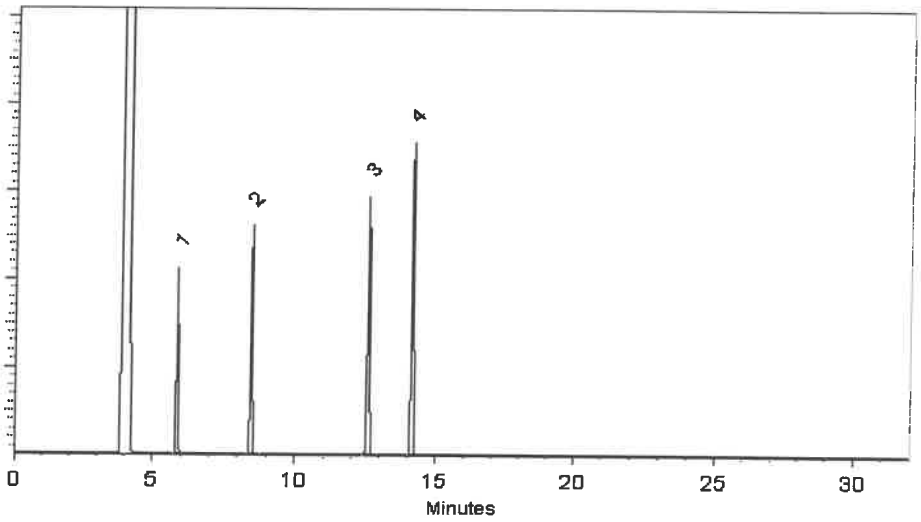
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-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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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.:** A0200785

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 : November 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%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

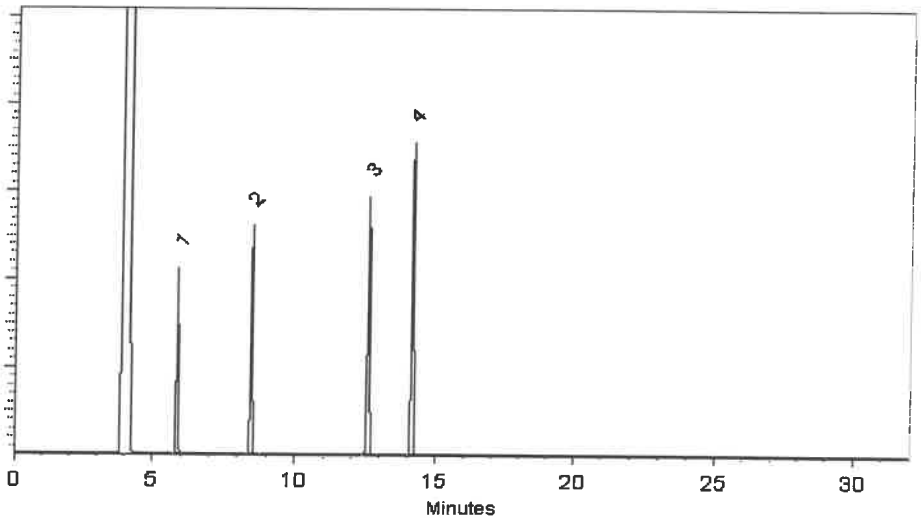
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-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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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.:** A0200785

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 : November 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%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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.)

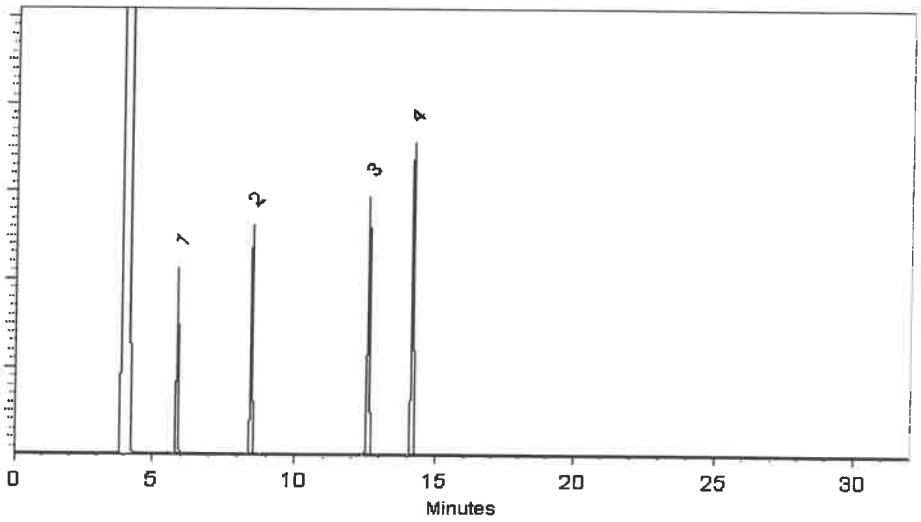
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-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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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.:** A0205179

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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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.)

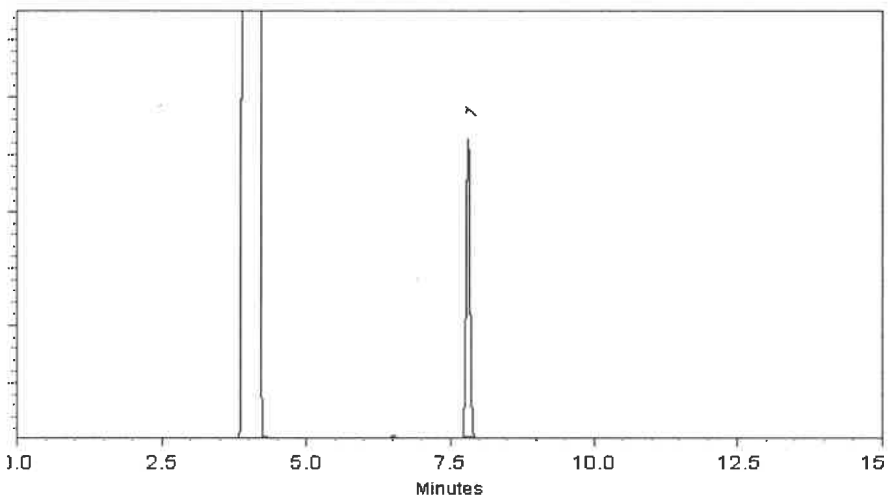
Inj. Temp:
200°C

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.

Daniel Wasson - Operations Tech I **Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 11-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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

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.:** A0205179

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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

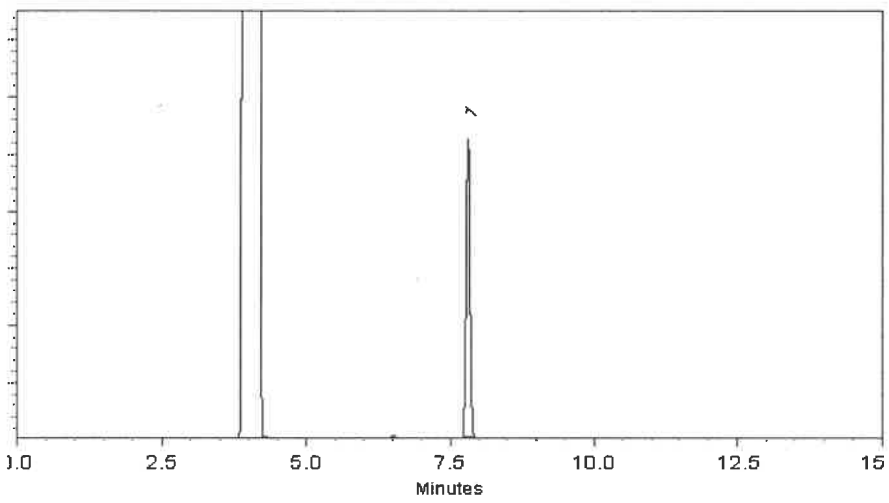
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Daniel Wasson - Operations Tech I **Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 11-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.
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Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- 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.)

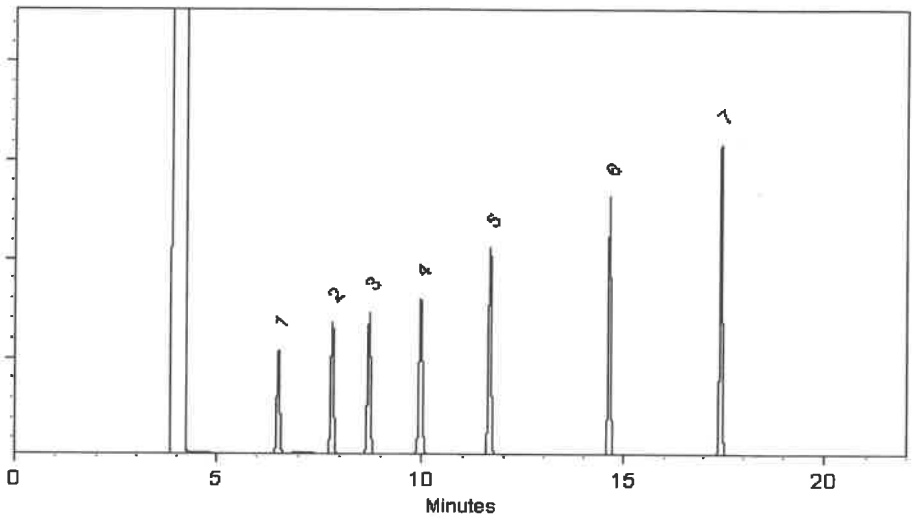
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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Manufacturing Notes:

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Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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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%

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Temp. Program:
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@ 8°C/min. (hold 5 min.)

Inj. Temp:
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Det. Temp:
250°C

Det. Type:
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Split Vent:
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Inj. Vol
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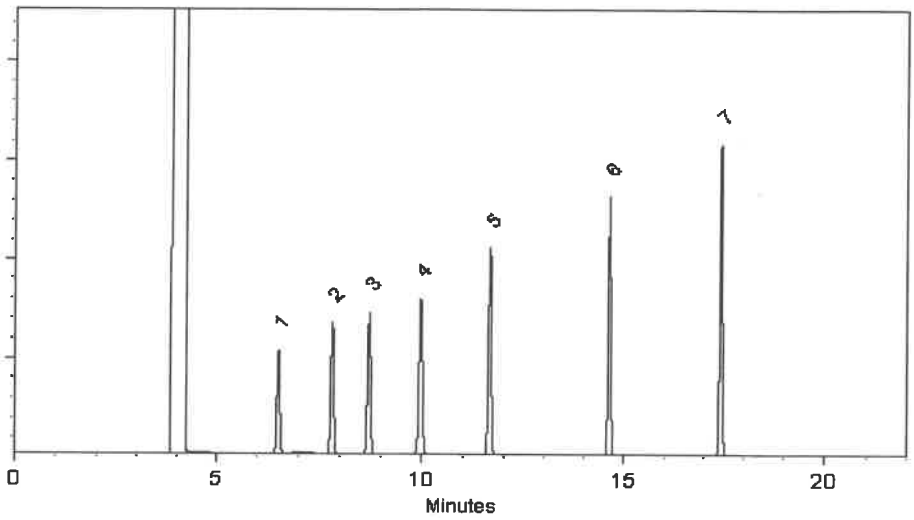

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Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
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Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
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Revision No.: 0

Certificate of Analysis

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Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
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Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

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Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

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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) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P5281
COC Number 2041250

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RESOLUTION
ADDRESS:
CITY STATE: ZIP:
ATTENTION: ELEANOR VIVAUDOU
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION:
PROJECT MANAGER: ELEANOR VIVAUDOU
e-mail: ELEANOR.VIVAUDOU@AECOM.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: E. VIVAUDOU PO#:
ADDRESS: 27 ELLIS PLACE
CITY OSSINING STATE: NY ZIP: 10563
ATTENTION: E. VIVAUDOU PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: STANDARD DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☑ EDD FORMAT NYSDEC EQD CAT B

ANALYSIS

1 VOCs 8260
2 1,4 DIOXANE SIM 8270
3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/G	E								← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	RE117D1-20241212	GW		X	12-12-24	1310	3	2	1								
2.	BPOW1-7-20241212	GW		X		1345	3	2	1								
3.	BPOW1-8-20241212	GW		X		1314	3	2	1								
4.	TT101D2-20241212	GW		X		1335	3	2	1								
5.	RE117D1-20241213	GW		X	12-13-24	0945	3	2	1								
6.	RE115D1-20241213	GW		X		0925	3	2	1								
7.	TT189D2-20241213	GW		X		0909	3	2	1								
8.	FB02-20241213	DW		X		1030	3	2	1								
9.	FB	DW		X	09-13-24	—	2	2									
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME:	RECEIVED BY:
1. RELINQUISHED BY SAMPLER:	12-13-24	1. 1300 12.13.24
2. RELINQUISHED BY SAMPLER:	DATE/TIME:	2. RECEIVED BY:
3. RELINQUISHED BY SAMPLER:	12.13.24 DATE/TIME:	3. RECEIVED BY:

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments:

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5281 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 12/13/2024 1:05:00 PM
Project Name : NAVFAC NWIRP Bethpag
Receive DateTime : 12/13/2024 ~~12:00:00~~ AM 17:05
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5281-01	RE114D1-20241212	Water	12/12/2024	13:10					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-02	BPOW1-7-20241212	Water	12/12/2024	13:45					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-03	BPOW1-8-20241212	Water	12/12/2024	13:14					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-04	TT101D2-20241212	Water	12/12/2024	13:35					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-05	~~RE117D1-20241312~~ RE117D1-20241213	Water	12/13/2024	09:45					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-06	~~RE115D1-20241312~~ RE115D1-20241213	Water	12/13/2024	09:25					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-07	~~TT189D2-20241312~~ TT189D2-20241213	Water	12/13/2024	09:09					
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-08	FB02-20241213	Water	12/13/2024	10:30					

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

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Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low		10 Bus. Days
P5281-09	~~FB~~ TB	Water	12/13/2024	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinquished By : [signature]
Date / Time : 12-16-24 955

Received By : [signature]
Date / Time : 12-16-24 9:55

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	141947	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	253574	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213862	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88334	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	3407	1.369	ug/l	0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	2.740%#		
35) Dibromofluoromethane	5.385	113	2117	1.205	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	2.420%#		
50) Toluene-d8	8.653	98	6848	1.156	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	2.320%#		
62) 4-Bromofluorobenzene	11.091	95	2398	1.158	ug/l	0.01
Spiked Amount 50.000	Range 77 - 121		Recovery =	2.320%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	2491	1.135	ug/l	98
3) Chloromethane	1.300	50	2109	1.005	ug/l	98
4) Vinyl Chloride	1.373	62	2285	1.045	ug/l #	85
5) Bromomethane	1.593	94	1882	1.213	ug/l	94
6) Chloroethane	1.672	64	1176	0.864	ug/l	92
7) Trichlorofluoromethane	1.867	101	4491	1.049	ug/l	96
8) Diethyl Ether	2.129	74	1651	1.130	ug/l	78
9) 1,1,2-Trichlorotrifluo...	2.318	101	1796	1.037	ug/l	95
10) Methyl Iodide	2.440	142	2045	0.896	ug/l	99
11) Tert butyl alcohol	2.989	59	972	2.776	ug/l #	71
12) 1,1-Dichloroethene	2.306	96	1454	0.914	ug/l	90
13) Acrolein	2.233	56	2449	4.823	ug/l	84
14) Allyl chloride	2.660	41	2551	0.963	ug/l #	91
15) Acrylonitrile	3.068	53	4528	4.660	ug/l	98
16) Acetone	2.385	43	5096	5.022	ug/l	97
17) Carbon Disulfide	2.501	76	2387	0.789	ug/l	99
18) Methyl Acetate	2.702	43	2739	1.047	ug/l #	86
19) Methyl tert-butyl Ether	3.117	73	5832	0.939	ug/l #	91
20) Methylene Chloride	2.776	84	1928	1.012	ug/l #	74
21) trans-1,2-Dichloroethene	3.080	96	1703	1.007	ug/l #	79
22) Diisopropyl ether	3.763	45	5792	0.971	ug/l #	83
23) Vinyl Acetate	3.733	43	17578	3.623	ug/l	100
24) 1,1-Dichloroethane	3.605	63	3040	0.914	ug/l	96
25) 2-Butanone	4.586	43	6380	4.423	ug/l	96
26) 2,2-Dichloropropane	4.464	77	2220	0.821	ug/l	85
27) cis-1,2-Dichloroethene	4.489	96	2296	1.069	ug/l	81
28) Bromochloromethane	4.909	49	1641	1.006	ug/l #	72
29) Tetrahydrofuran	5.025	42	4158	4.491	ug/l #	84
30) Chloroform	5.086	83	3943	1.055	ug/l	91
31) Cyclohexane	5.470	56	2594	0.966	ug/l #	80
32) 1,1,1-Trichloroethane	5.379	97	2818	0.908	ug/l #	48
36) 1,1-Dichloropropene	5.684	75	1178	0.519	ug/l	92
37) Ethyl Acetate	4.727	43	2718	0.969	ug/l #	71
38) Carbon Tetrachloride	5.678	117	2454	1.004	ug/l #	73
39) Methylcyclohexane	7.366	83	2606	0.960	ug/l	93
40) Benzene	6.037	78	6864	0.996	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	390	0.262 ug/l #	1
42) 1,2-Dichloroethane	6.092	62	2810	0.990 ug/l	93
43) Isopropyl Acetate	6.354	43	3734	0.851 ug/l	98
44) Trichloroethene	7.122	130	1806	1.051 ug/l	71
45) 1,2-Dichloropropane	7.433	63	1865	1.059 ug/l #	74
46) Dibromomethane	7.592	93	1251	0.916 ug/l	97
47) Bromodichloromethane	7.830	83	1926	0.816 ug/l #	74
48) Methyl methacrylate	7.720	41	2168	1.018 ug/l #	77
49) 1,4-Dioxane	7.702	88	289	7.943 ug/l #	71
51) 4-Methyl-2-Pentanone	8.579	43	12824	4.547 ug/l	95
52) Toluene	8.720	92	4606	1.064 ug/l	92
53) t-1,3-Dichloropropene	8.988	75	1716	1.694 ug/l #	78
54) cis-1,3-Dichloropropene	8.366	75	2048	0.797 ug/l #	75
55) 1,1,2-Trichloroethane	9.159	97	1710	0.994 ug/l #	83
56) Ethyl methacrylate	9.128	69	2490	0.917 ug/l #	85
57) 1,3-Dichloropropane	9.317	76	2929	0.979 ug/l	94
58) 2-Chloroethyl Vinyl ether	8.244	63	5621	4.105 ug/l	96
59) 2-Hexanone	9.439	43	8199	4.017 ug/l	98
60) Dibromochloromethane	9.524	129	1289	1.953 ug/l	97
61) 1,2-Dibromoethane	9.610	107	1535	0.877 ug/l	95
64) Tetrachloroethene	9.274	164	1536	1.082 ug/l	86
65) Chlorobenzene	10.079	112	4835	1.055 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.158	131	1288	0.875 ug/l #	63
67) Ethyl Benzene	10.195	91	7924	1.001 ug/l #	88
68) m/p-Xylenes	10.305	106	5583	1.922 ug/l	98
69) o-Xylene	10.640	106	2933	0.998 ug/l	96
70) Styrene	10.658	104	4306	0.914 ug/l	94
71) Bromoform	10.805	173	584	1.847 ug/l #	72
73) Isopropylbenzene	10.963	105	6474	0.957 ug/l	100
74) N-amyl acetate	10.847	43	2536	0.811 ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.219	83	2491	1.061 ug/l	95
76) 1,2,3-Trichloropropane	11.244	75	2810	1.402 ug/l	81
77) Bromobenzene	11.201	156	1783	1.087 ug/l	91
78) n-propylbenzene	11.305	91	6606	0.884 ug/l	86
79) 2-Chlorotoluene	11.366	91	5194	1.075 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	5417	0.966 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.030	75	402	6.098 ug/l	86
82) 4-Chlorotoluene	11.457	91	5236	0.978 ug/l	98
83) tert-Butylbenzene	11.713	119	5601	1.011 ug/l	91
84) 1,2,4-Trimethylbenzene	11.756	105	4769	0.866 ug/l	95
85) sec-Butylbenzene	11.890	105	6500	0.966 ug/l	99
86) p-Isopropyltoluene	12.012	119	5210	0.930 ug/l	93
87) 1,3-Dichlorobenzene	11.975	146	2684	0.937 ug/l	94
88) 1,4-Dichlorobenzene	11.975	146	2684	0.912 ug/l	94
89) n-Butylbenzene	12.335	91	3973	0.844 ug/l	94
90) Hexachloroethane	12.536	117	632	0.773 ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	3082	1.036 ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	392	0.860 ug/l	70
93) 1,2,4-Trichlorobenzene	13.591	180	1361	0.835 ug/l	92
94) Hexachlorobutadiene	13.725	225	689	1.051 ug/l	96
95) Naphthalene	13.780	128	5167	0.812 ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	1509	0.873 ug/l	95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044219.D
Acq On : 11 Dec 2024 10:41
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
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\VX121124\
Data File : VX044219.D
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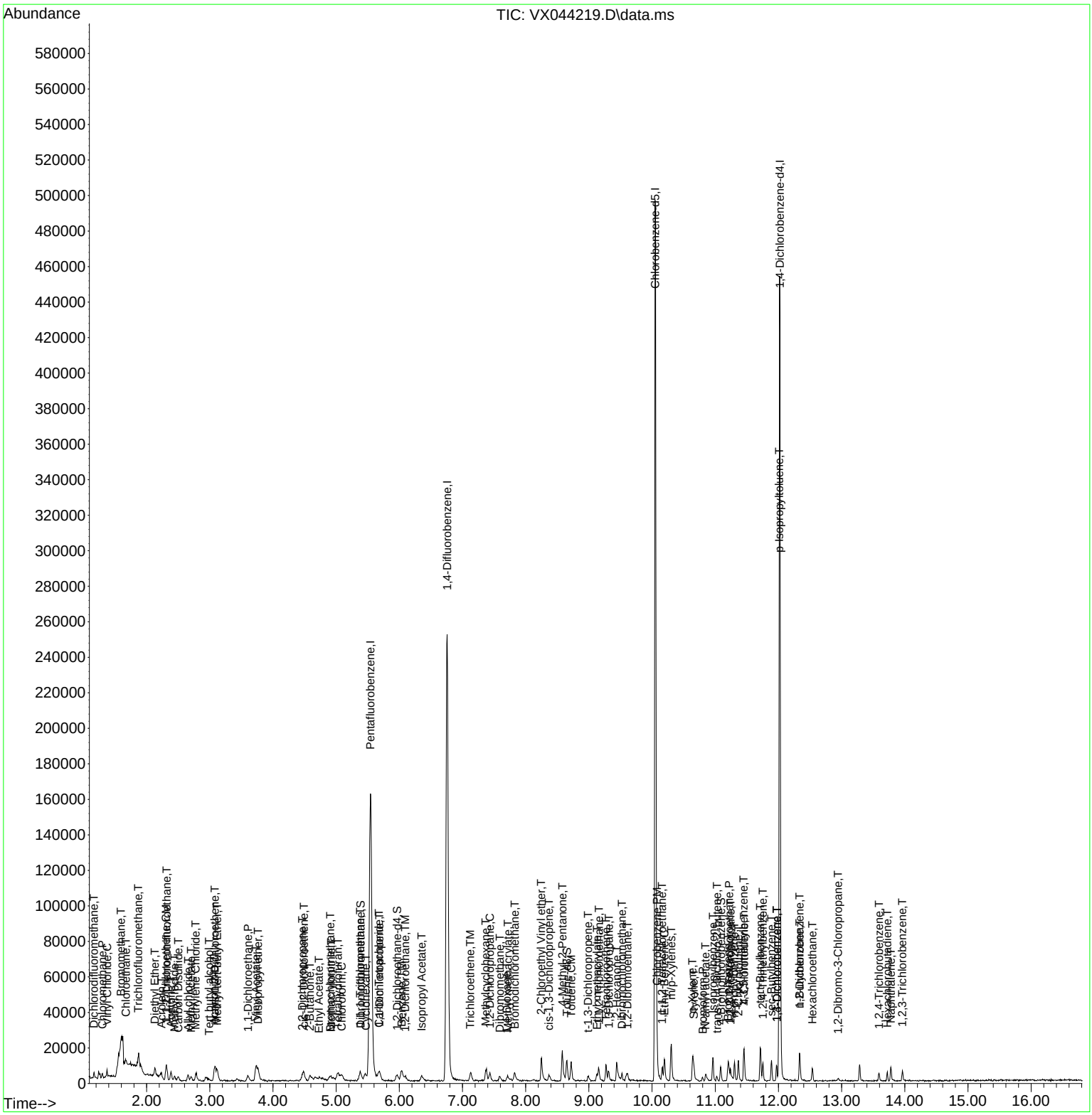
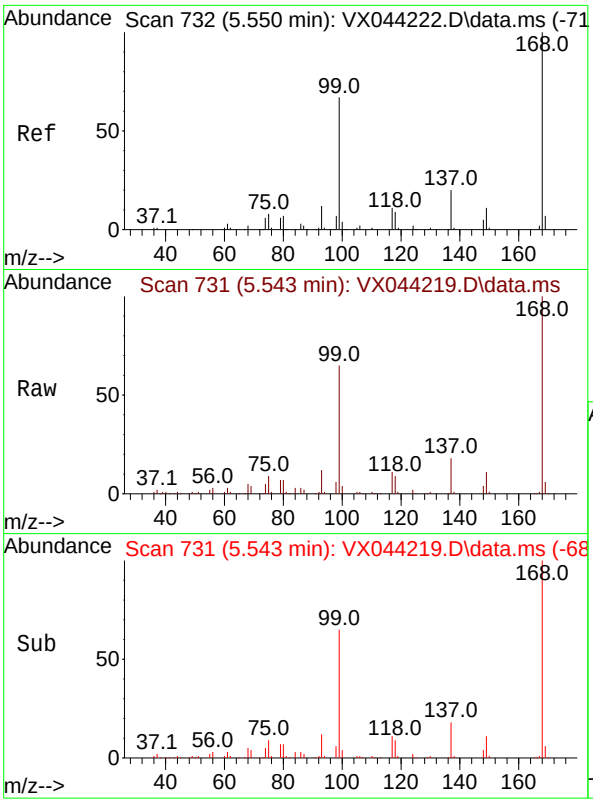
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Dec 12 04:12:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



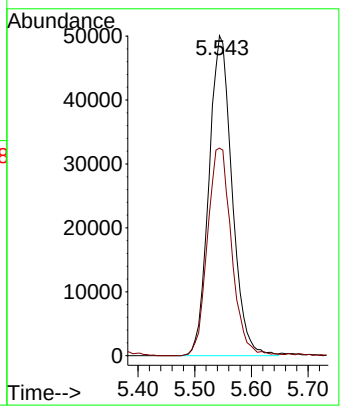


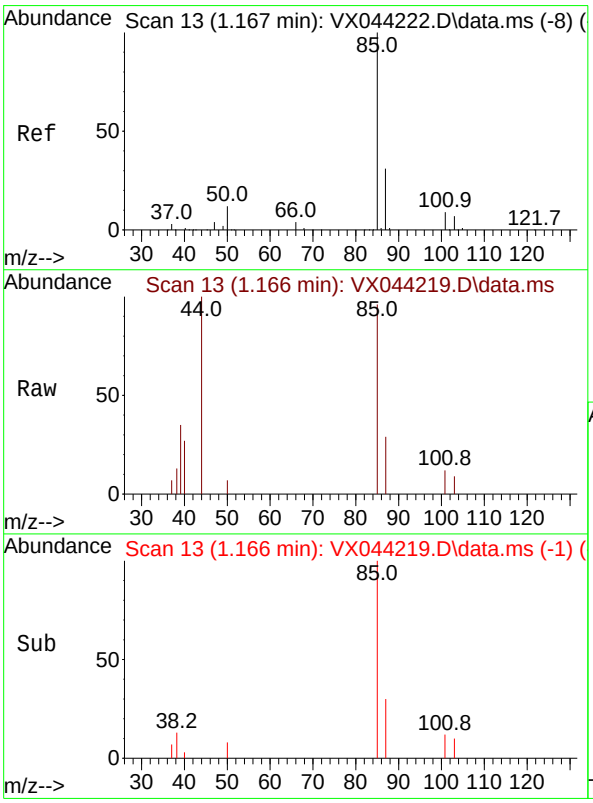
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 141947

Ion	Ratio	Lower	Upper
168	100		
99	64.9	53.4	80.0

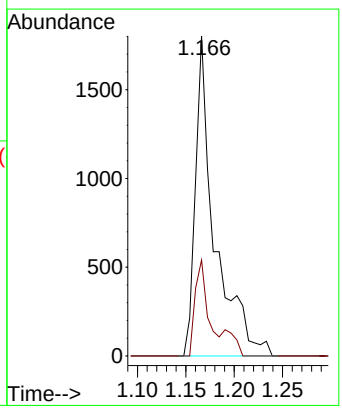


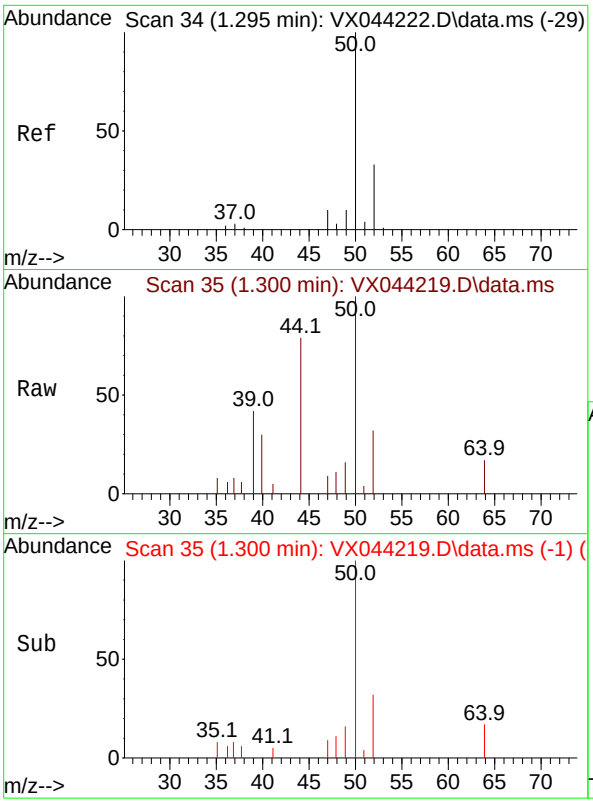


#2
Dichlorodifluoromethane
Concen: 1.135 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 85 Resp: 2491

Ion	Ratio	Lower	Upper
85	100		
87	30.0	15.4	46.4



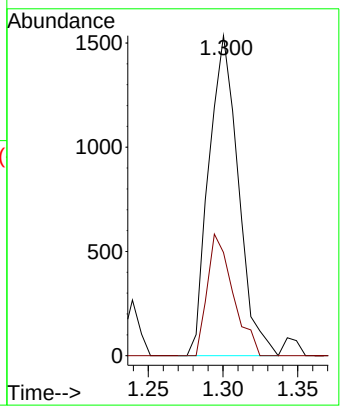


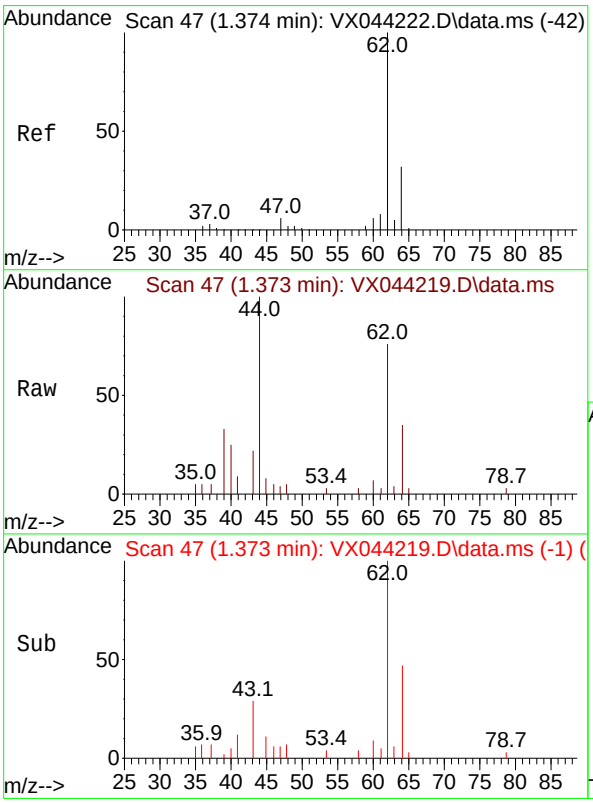
#3
Chloromethane
Concen: 1.005 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 2109

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.5	39.7

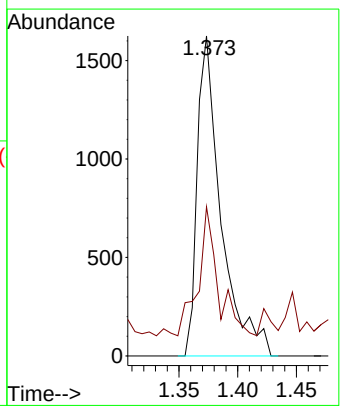


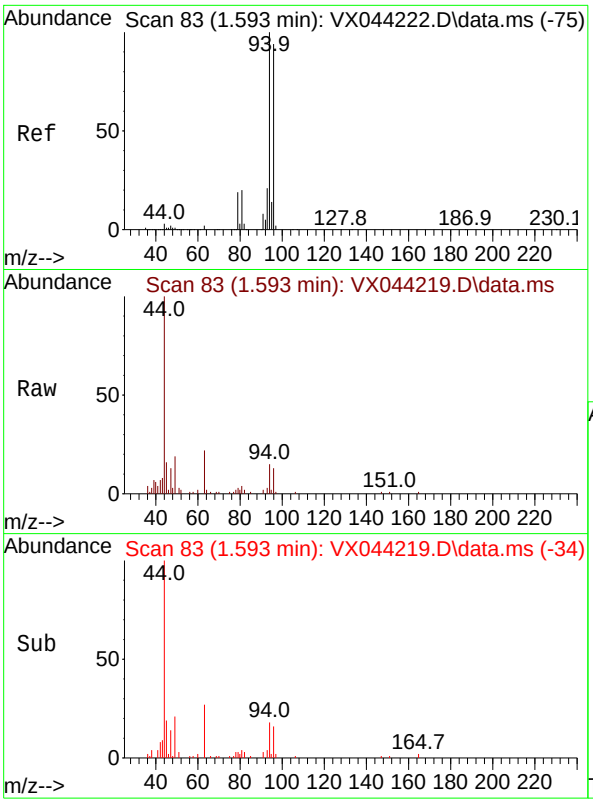


#4
Vinyl Chloride
Concen: 1.045 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2285

Ion	Ratio	Lower	Upper
62	100		
64	40.3	25.7	38.5#



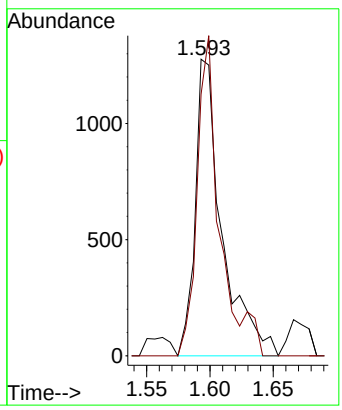


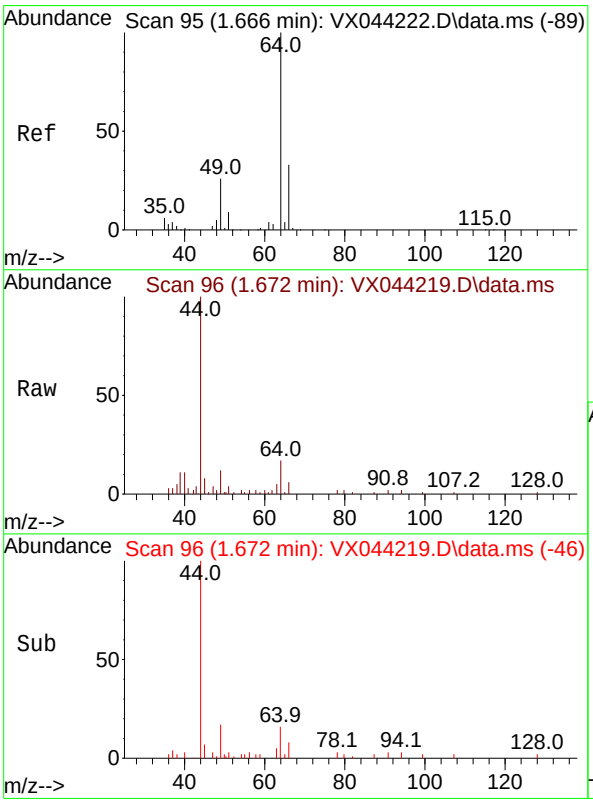
#5
Bromomethane
Concen: 1.213 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 1882

Ion	Ratio	Lower	Upper
94	100		
96	88.2	74.9	112.3

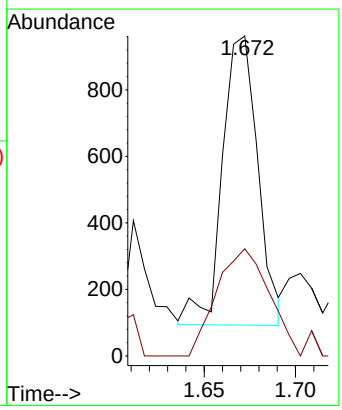


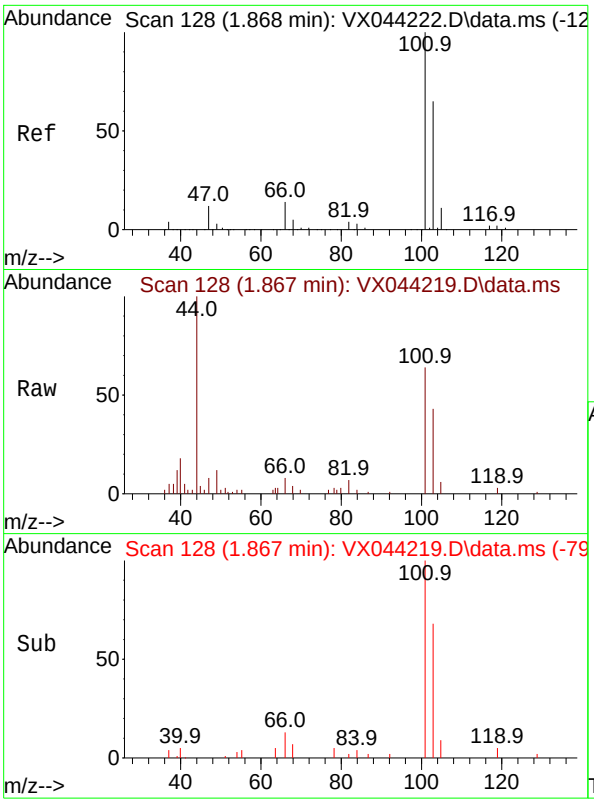


#6
Chloroethane
Concen: 0.864 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 64 Resp: 1176

Ion	Ratio	Lower	Upper
64	100		
66	37.6	26.6	39.8



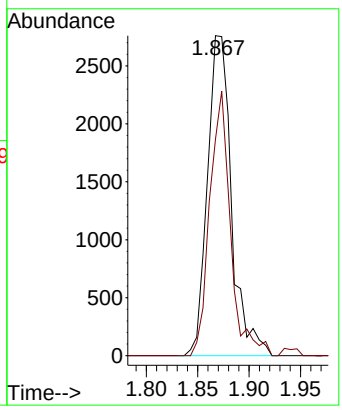


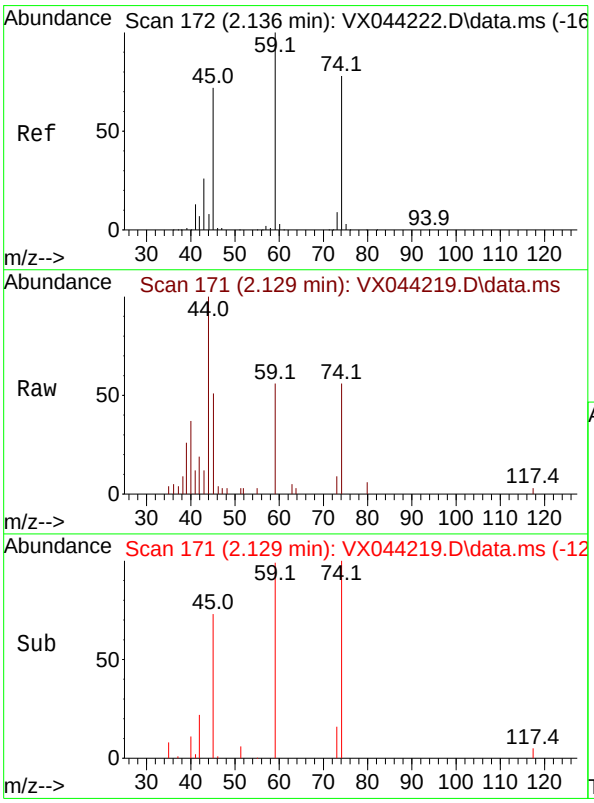
#7
Trichlorofluoromethane
Concen: 1.049 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 4491

Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.8	77.8

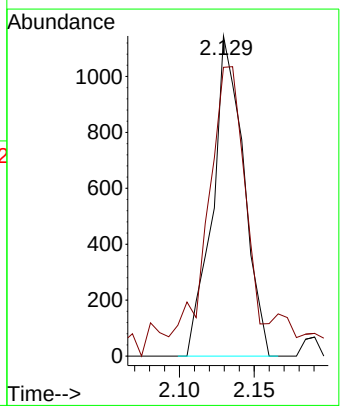


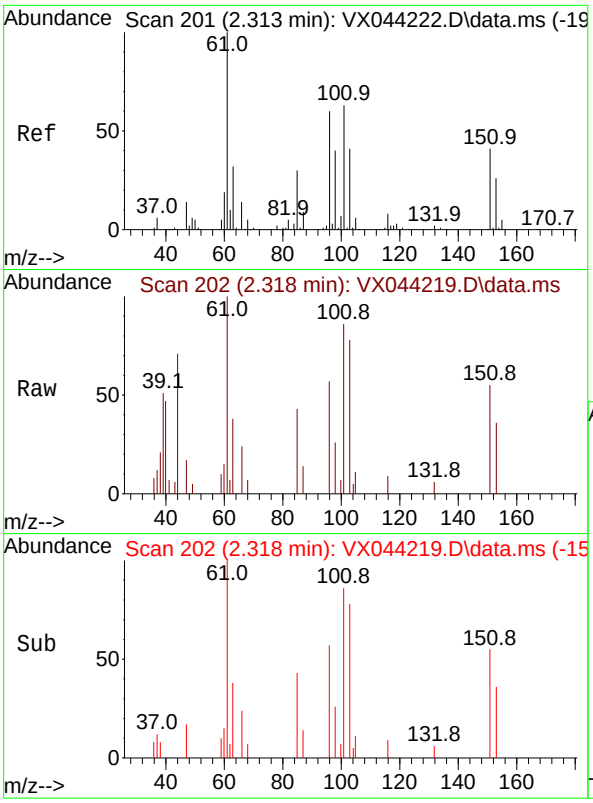


#8
Diethyl Ether
Concen: 1.130 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 74 Resp: 1651

Ion	Ratio	Lower	Upper
74	100		
45	118.0	48.4	145.0



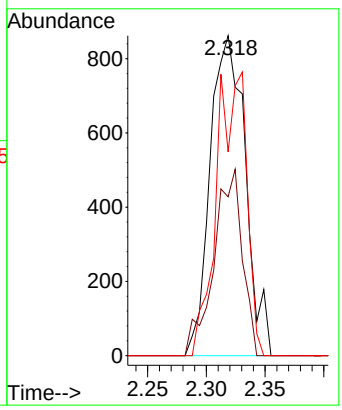


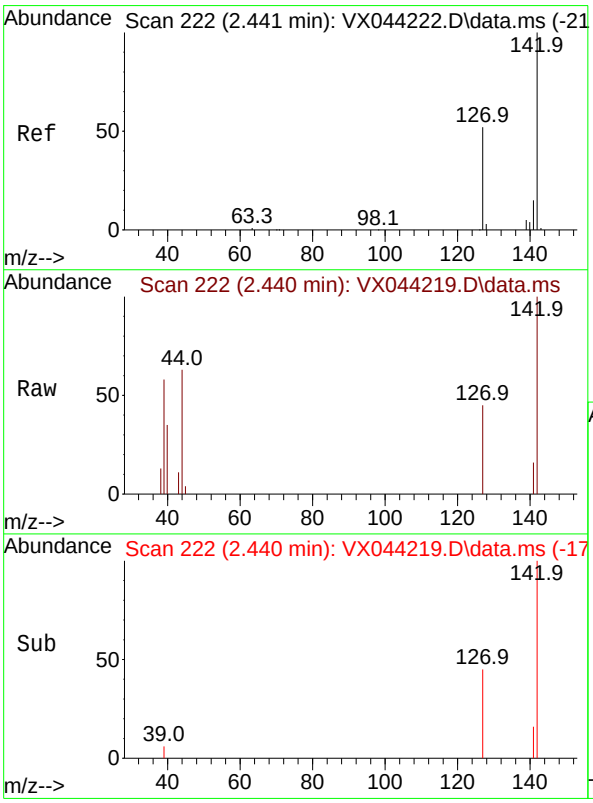
#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.037 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1796

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.5	57.7
151	76.1	55.8	83.6

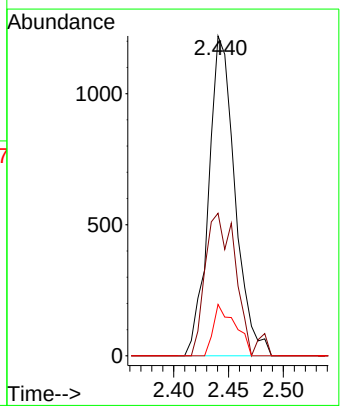


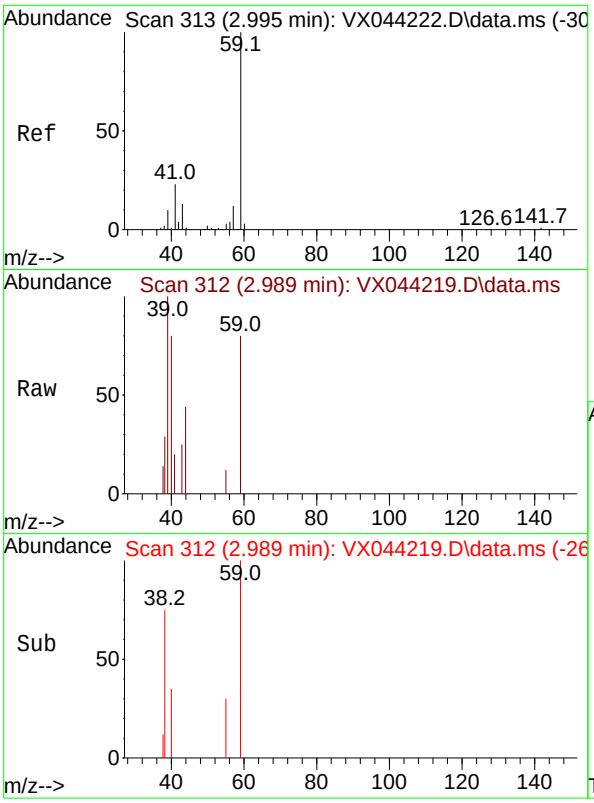


#10
Methyl Iodide
Concen: 0.896 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:142 Resp: 2045

Ion	Ratio	Lower	Upper
142	100		
127	52.6	41.8	62.8
141	13.4	11.5	17.3



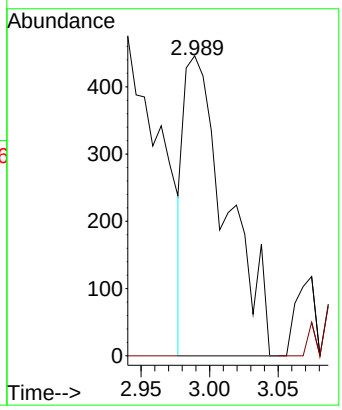


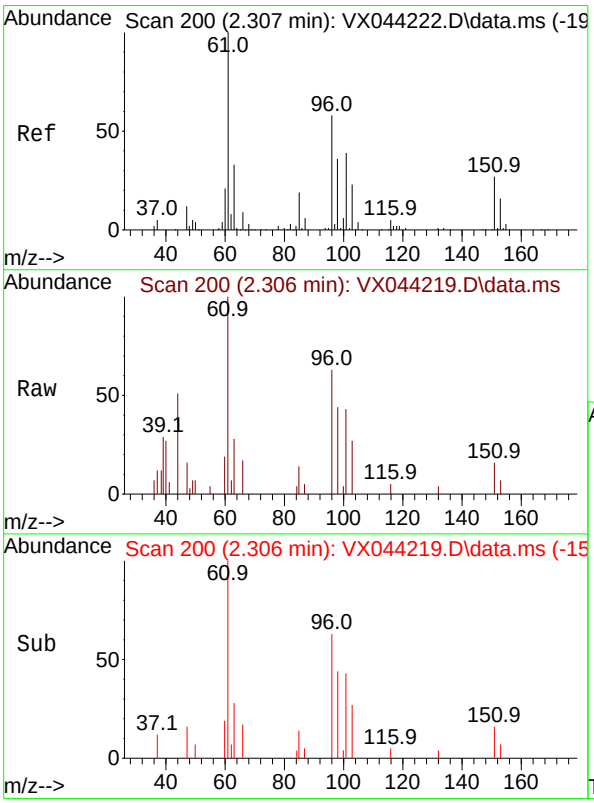
#11
Tert butyl alcohol
Concen: 2.776 ug/l
RT: 2.989 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 972

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

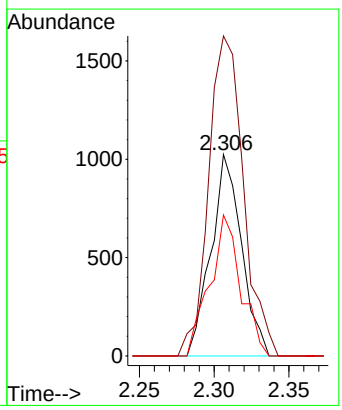


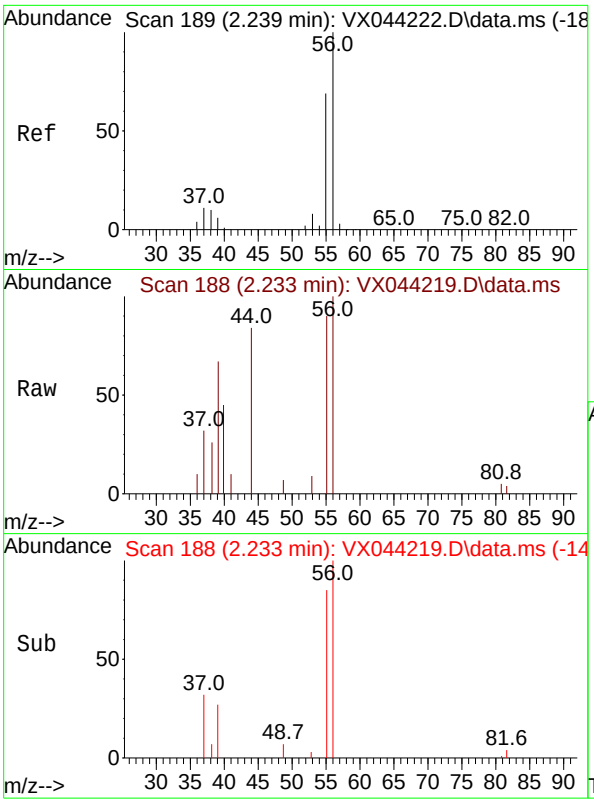


#12
1,1-Dichloroethene
Concen: 0.914 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 96 Resp: 1454

Ion	Ratio	Lower	Upper
96	100		
61	158.9	138.0	207.0
98	70.0	50.0	75.0



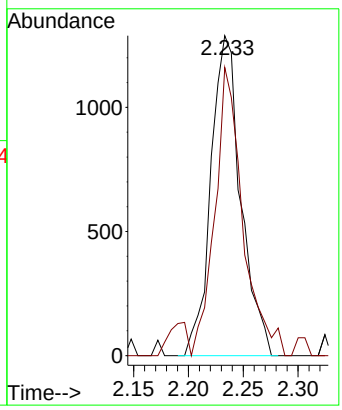


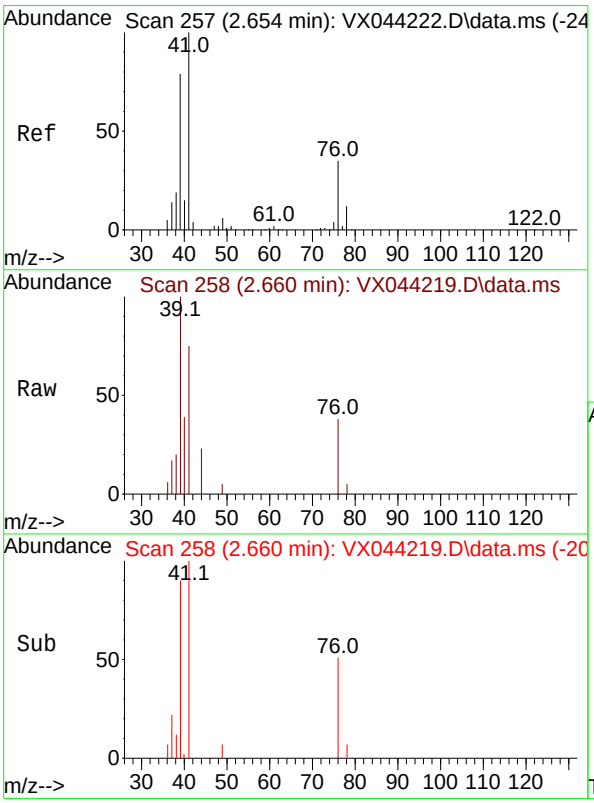
#13
Acrolein
Concen: 4.823 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2449

Ion	Ratio	Lower	Upper
56	100		
55	84.0	56.6	84.8

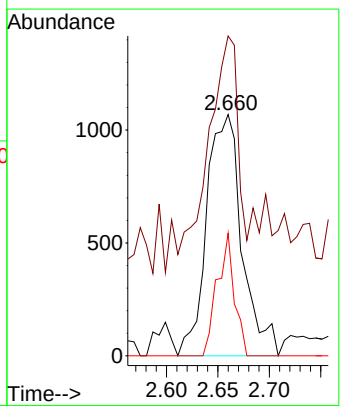


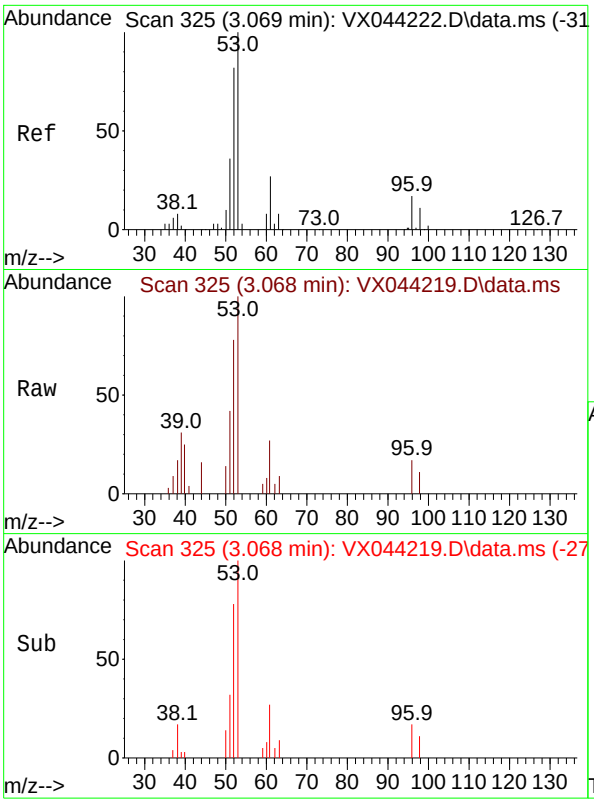


#14
Allyl chloride
Concen: 0.963 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 2551

Ion	Ratio	Lower	Upper
41	100		
39	72.6	61.9	92.9
76	24.6	27.4	41.2#



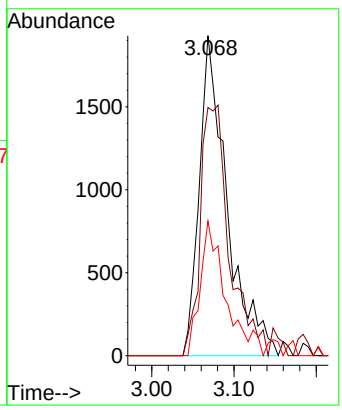


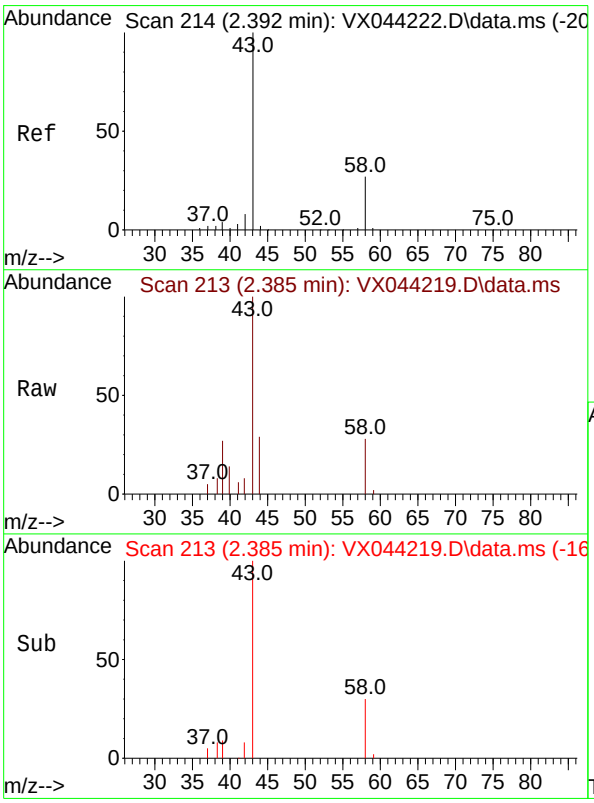
#15
Acrylonitrile
Concen: 4.660 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 4528

Ion	Ratio	Lower	Upper
53	100		
52	81.4	67.4	101.0
51	38.3	30.3	45.5

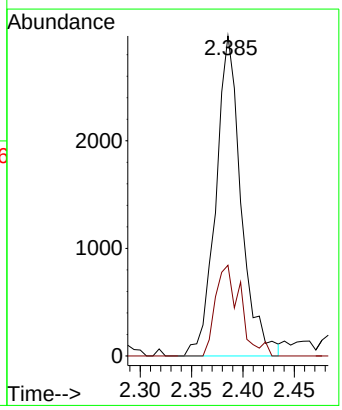


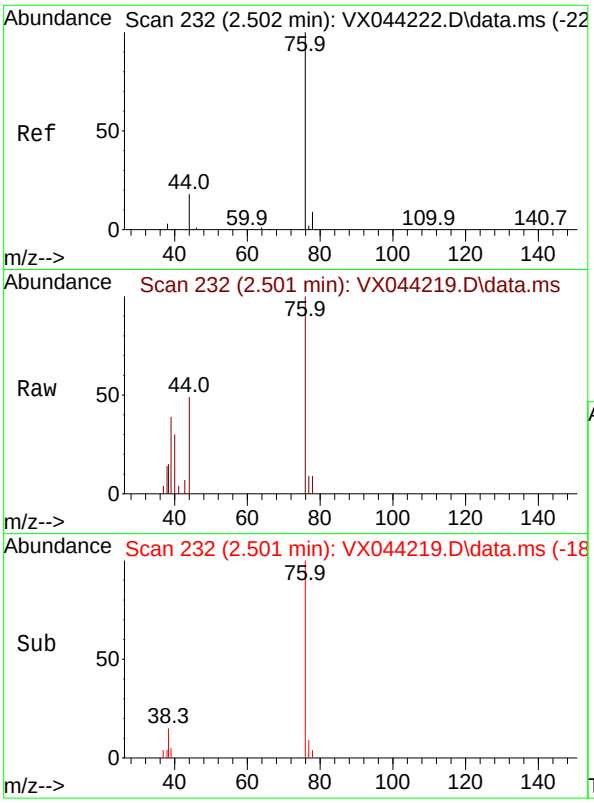


#16
Acetone
Concen: 5.022 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 5096

Ion	Ratio	Lower	Upper
43	100		
58	28.3	21.6	32.4



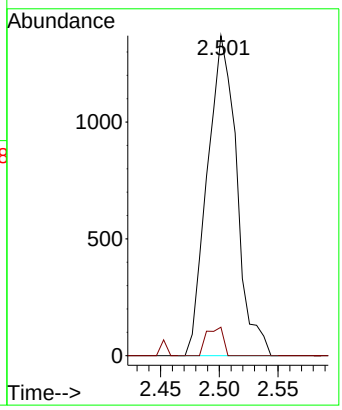


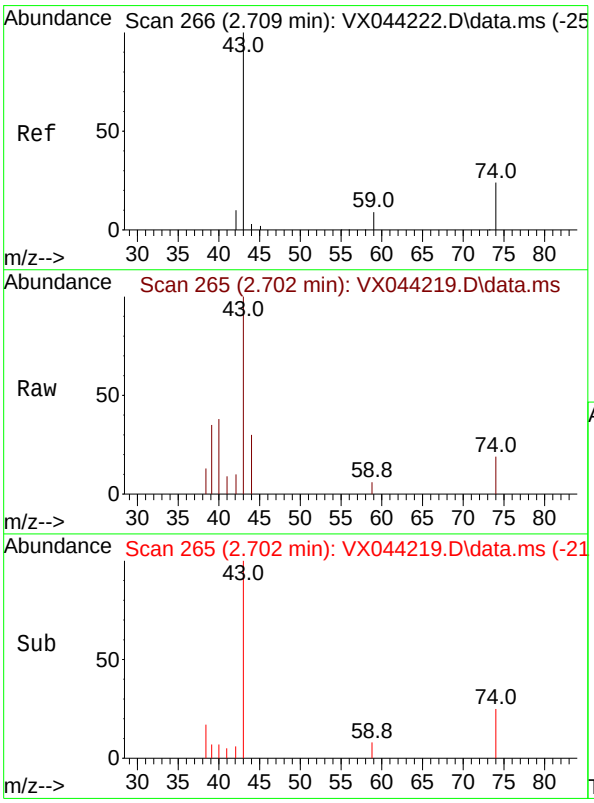
#17
Carbon Disulfide
Concen: 0.789 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2387

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.0

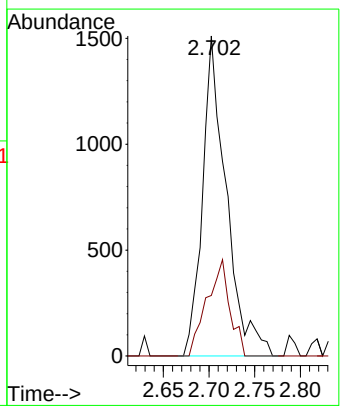


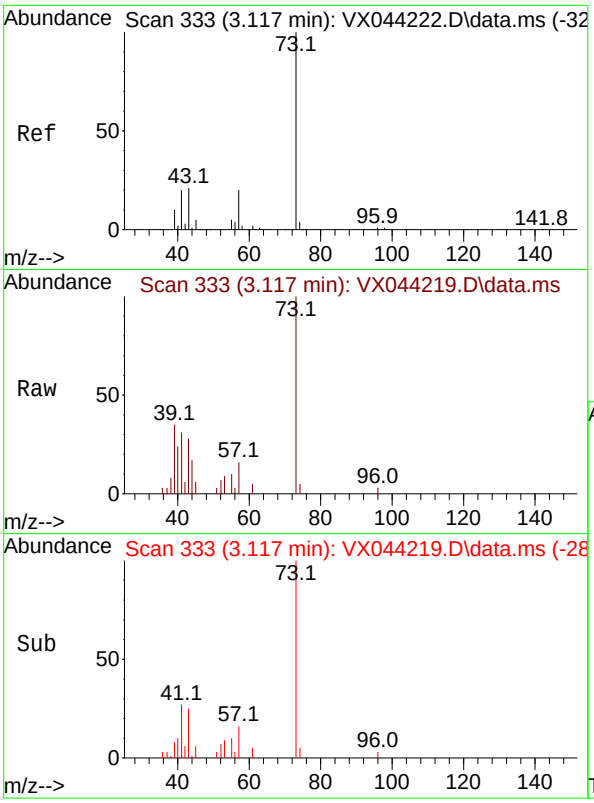


#18
Methyl Acetate
Concen: 1.047 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2739

Ion	Ratio	Lower	Upper
43	100		
74	28.9	17.7	26.5#



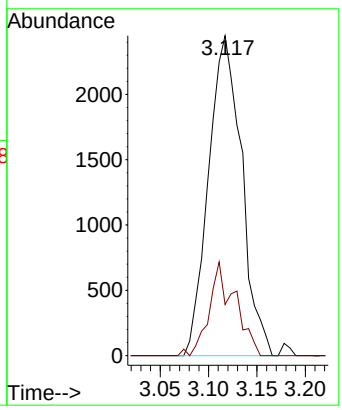


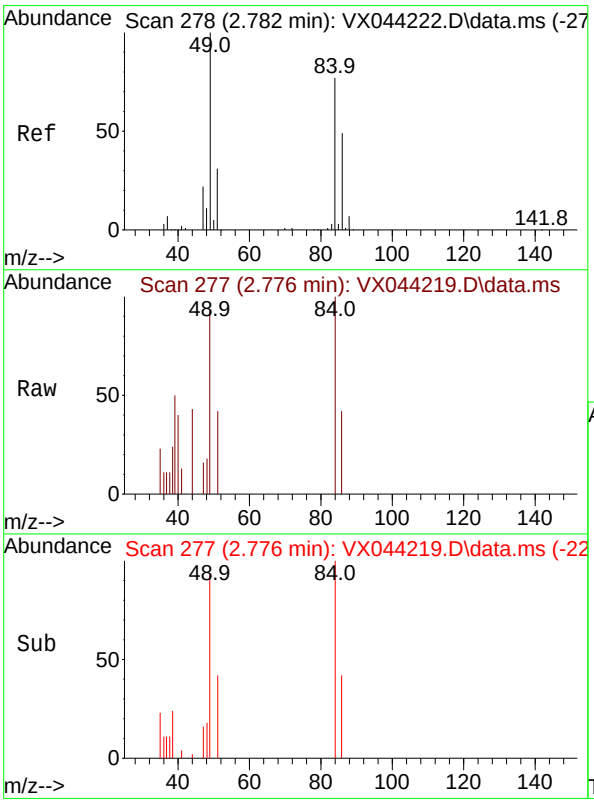
#19
Methyl tert-butyl Ether
Concen: 0.939 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 5832

Ion	Ratio	Lower	Upper
73	100		
57	16.0	16.2	24.4#

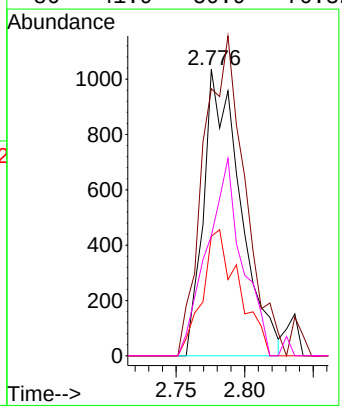


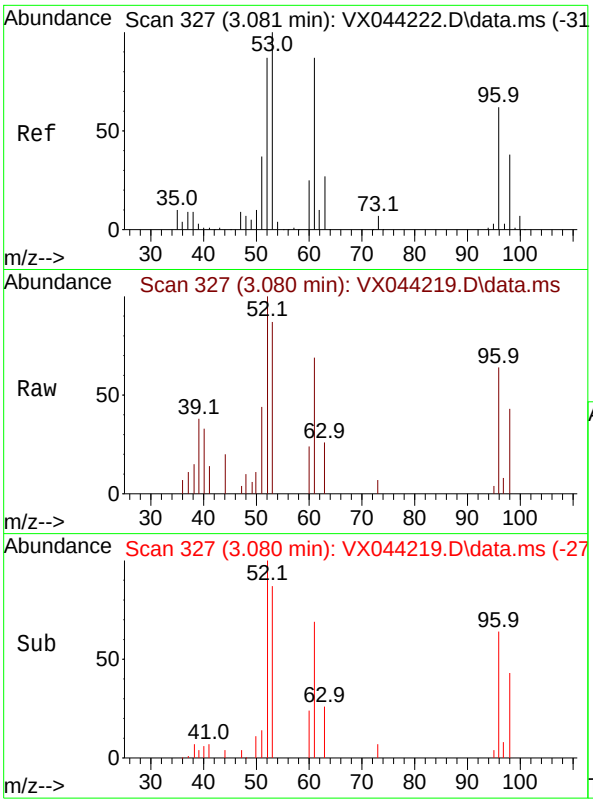


#20
Methylene Chloride
Concen: 1.012 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 84 Resp: 1928

Ion	Ratio	Lower	Upper
84	100		
49	93.2	104.2	156.4#
51	41.7	32.2	48.4
86	41.9	50.9	76.3#



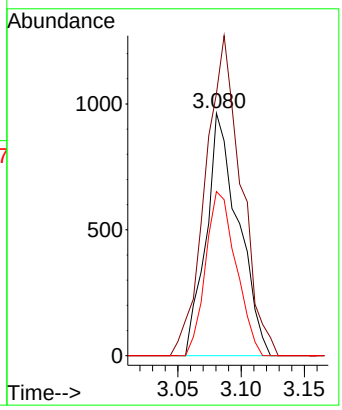


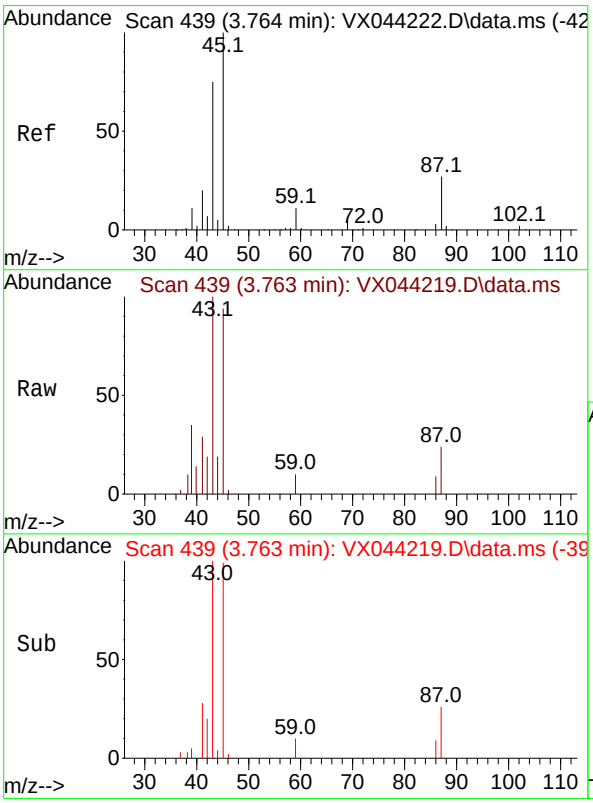
#21
trans-1,2-Dichloroethene
Concen: 1.007 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1703

Ion	Ratio	Lower	Upper
96	100		
61	108.1	112.0	168.0#
98	67.7	48.8	73.2

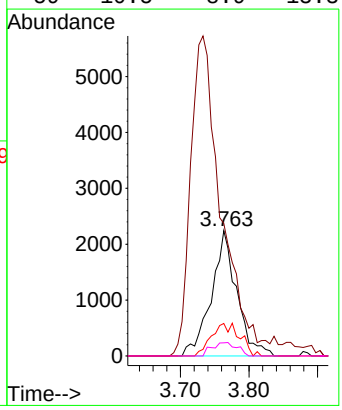


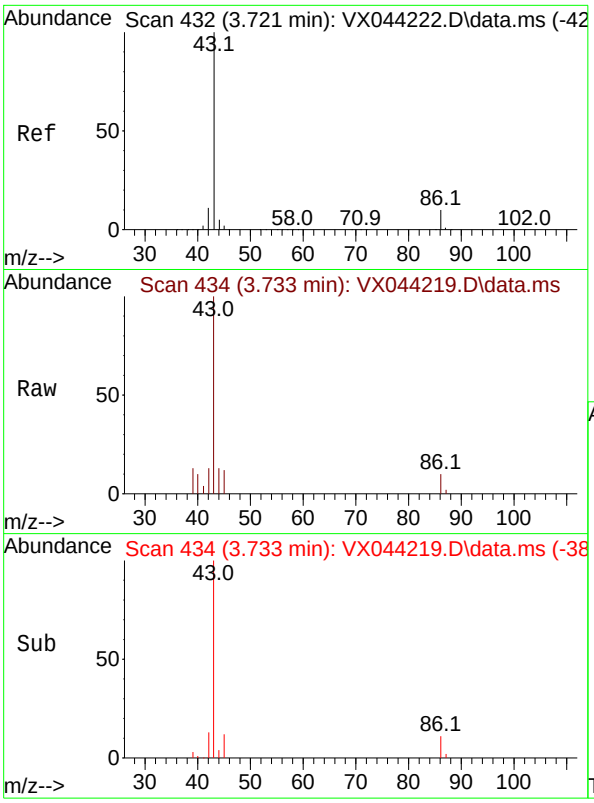


#22
Diisopropyl ether
Concen: 0.971 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 45 Resp: 5792

Ion	Ratio	Lower	Upper
45	100		
43	96.8	60.2	90.2#
87	25.9	21.2	31.8
59	10.5	8.9	13.3



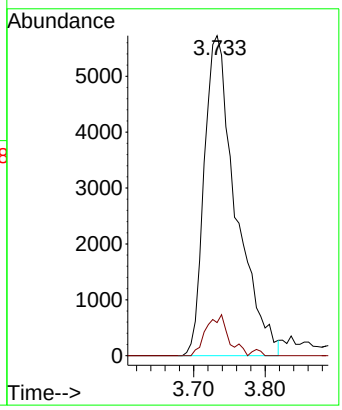


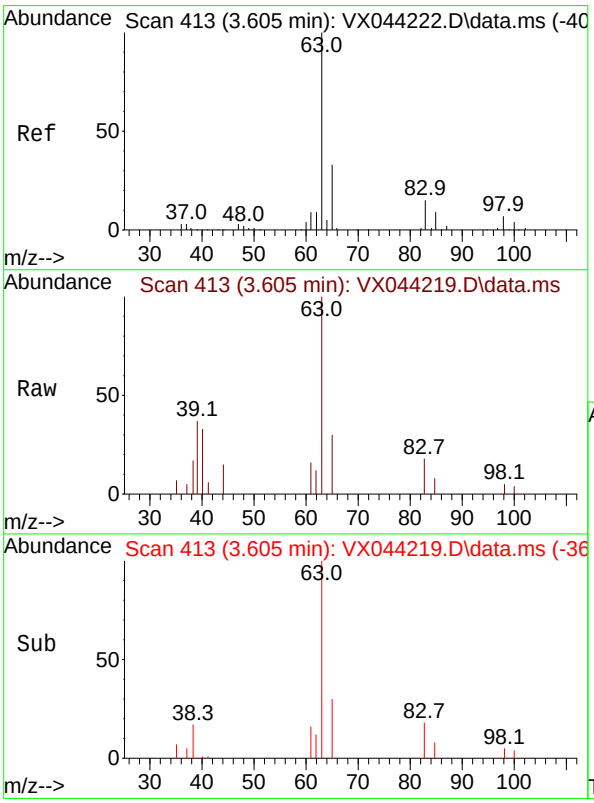
#23
Vinyl Acetate
Concen: 3.623 ug/l
RT: 3.733 min Scan# 4
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 17578

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2

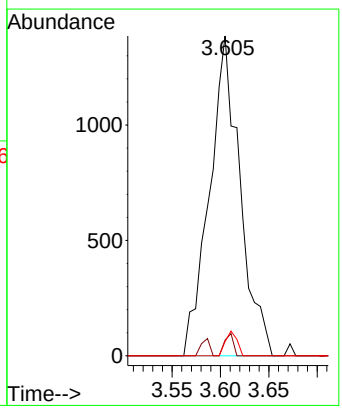


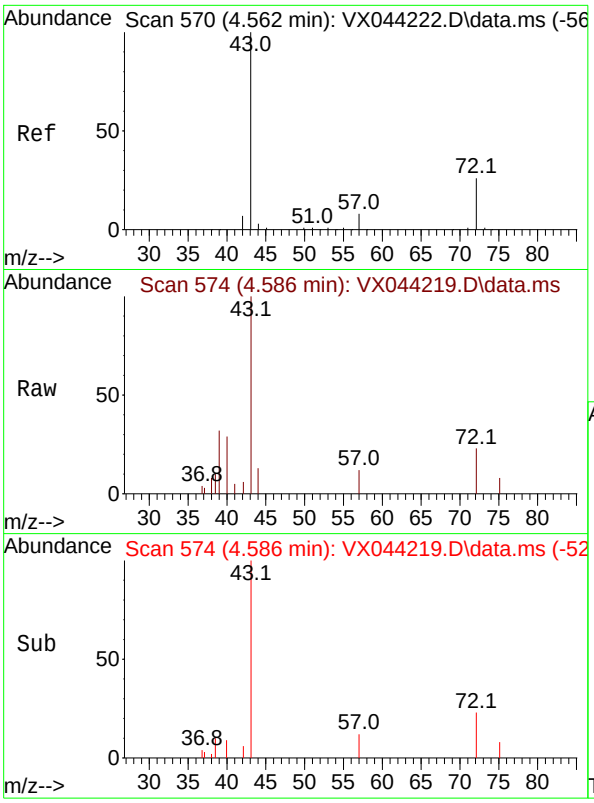


#24
1,1-Dichloroethane
Concen: 0.914 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 3040

Ion	Ratio	Lower	Upper
63	100		
98	4.9	3.6	10.8
100	4.5	2.1	6.3



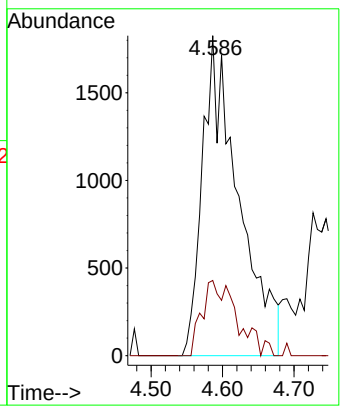


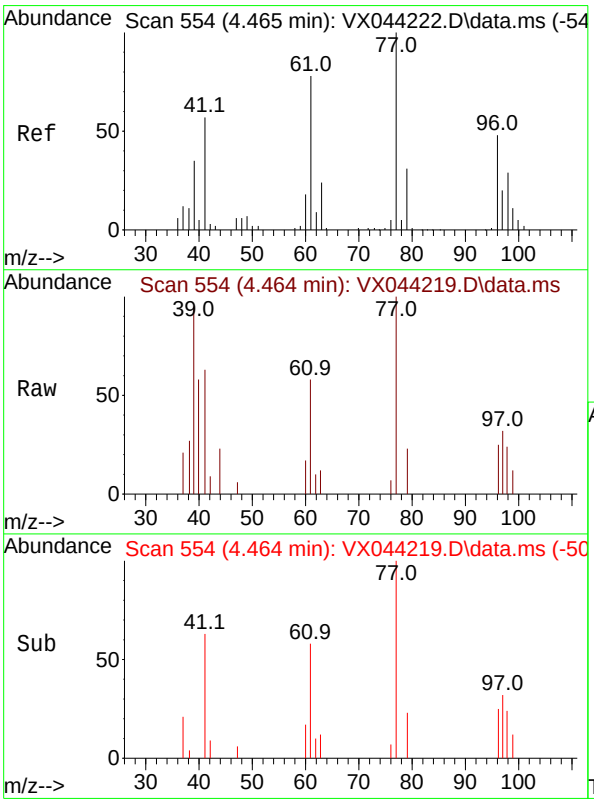
#25
2-Butanone
Concen: 4.423 ug/l
RT: 4.586 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 6380

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.2	30.4

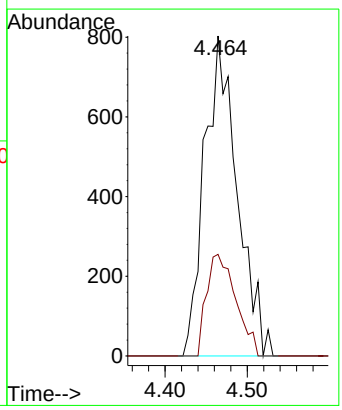


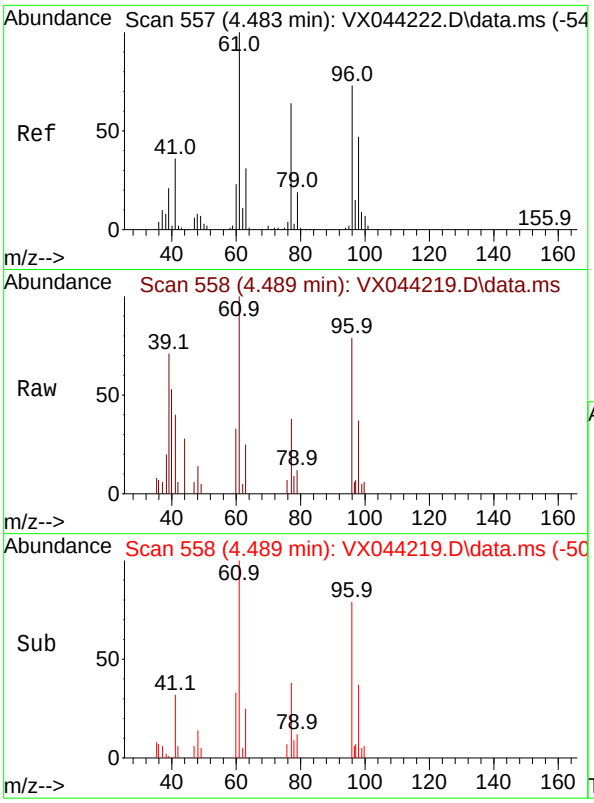


#26
2,2-Dichloropropane
Concen: 0.821 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 77 Resp: 2220

Ion	Ratio	Lower	Upper
77	100		
97	28.4	10.7	32.1



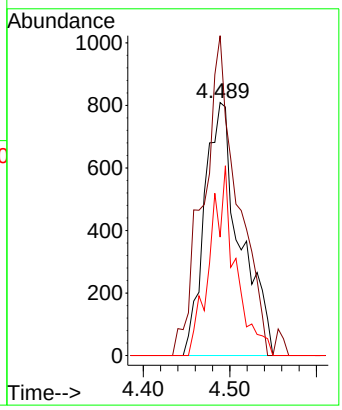


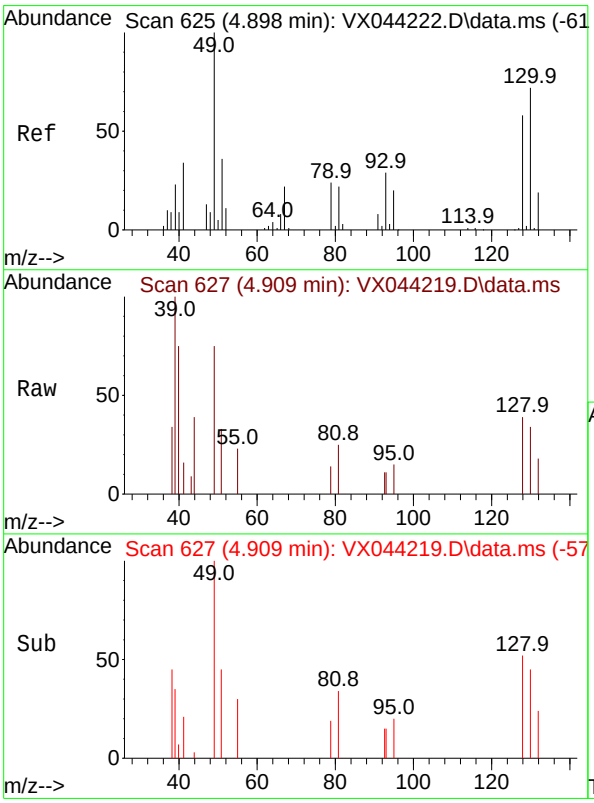
#27
cis-1,2-Dichloroethene
Concen: 1.069 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2296

Ion	Ratio	Lower	Upper
96	100		
61	122.2	0.0	299.0
98	54.0	0.0	129.0

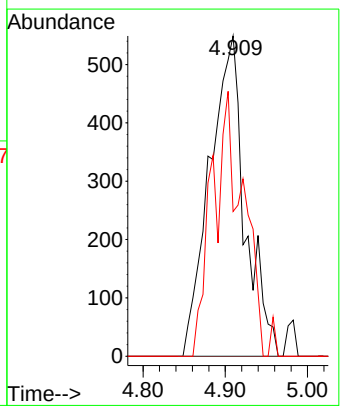


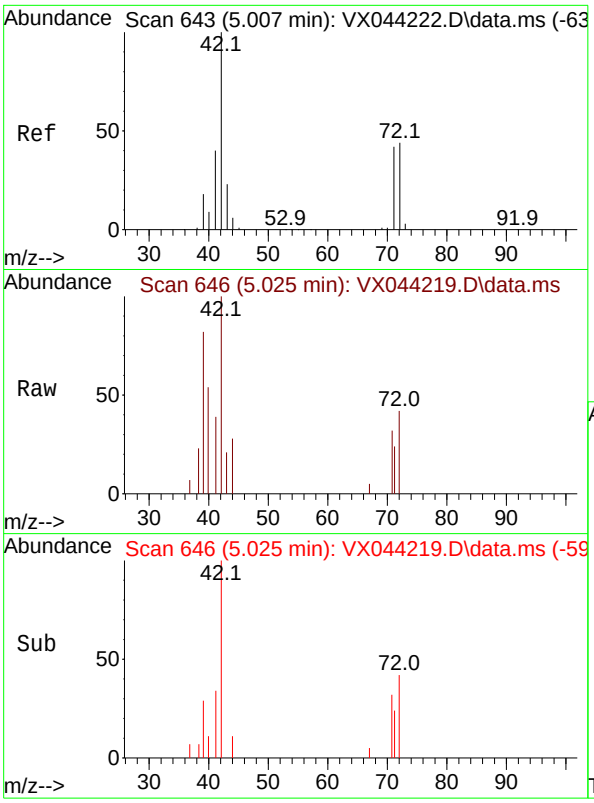


#28
Bromochloromethane
Concen: 1.006 ug/l
RT: 4.909 min Scan# 627
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 49 Resp: 1641

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	52.7	62.1	93.1#



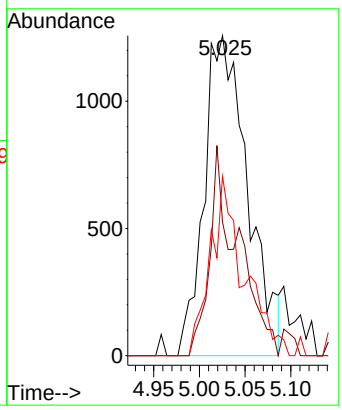


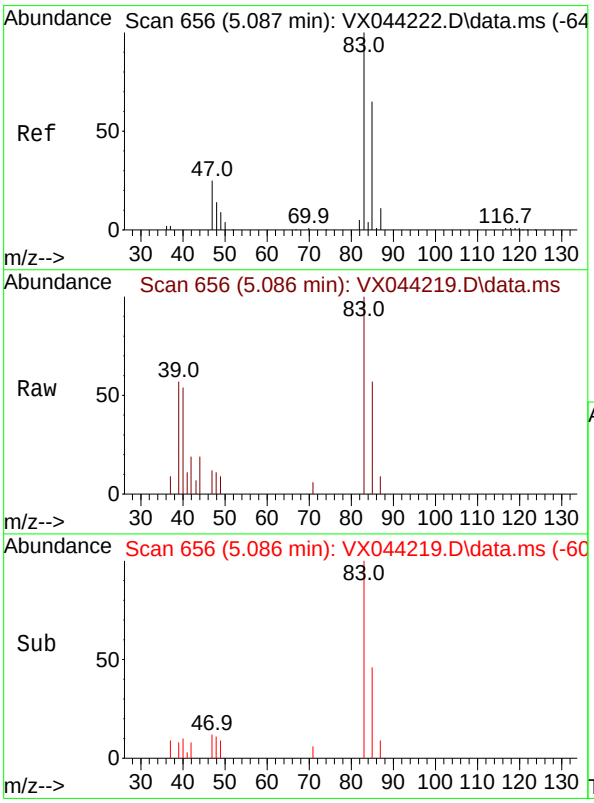
#29
Tetrahydrofuran
Concen: 4.491 ug/l
RT: 5.025 min Scan# 6
Delta R.T. 0.018 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 4158

Ion	Ratio	Lower	Upper
42	100		
72	27.0	37.0	55.6#
71	43.1	33.6	50.4

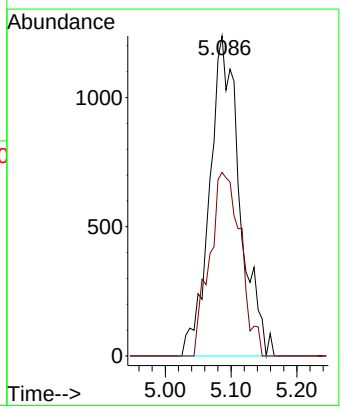


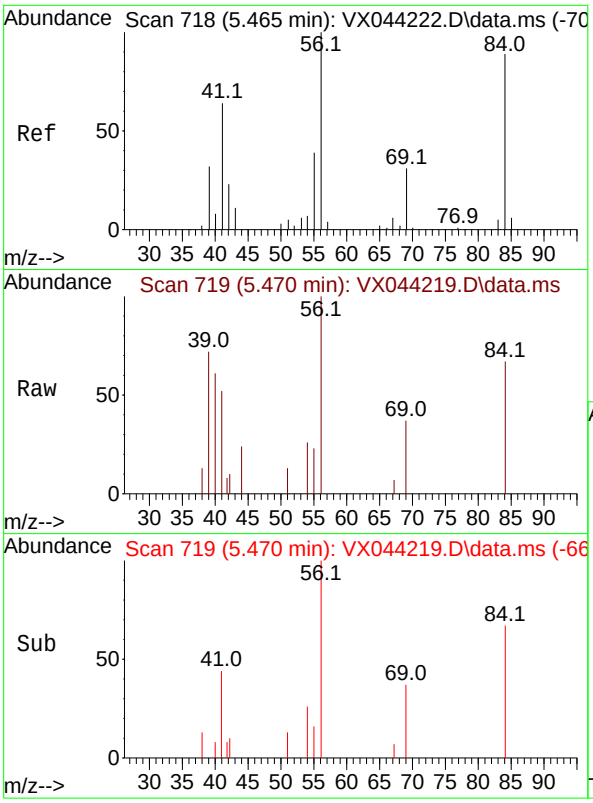


#30
Chloroform
Concen: 1.055 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 83 Resp: 3943

Ion	Ratio	Lower	Upper
83	100		
85	57.4	51.6	77.4



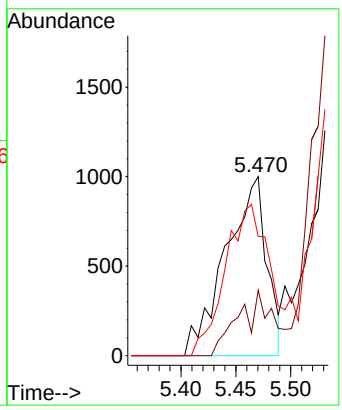


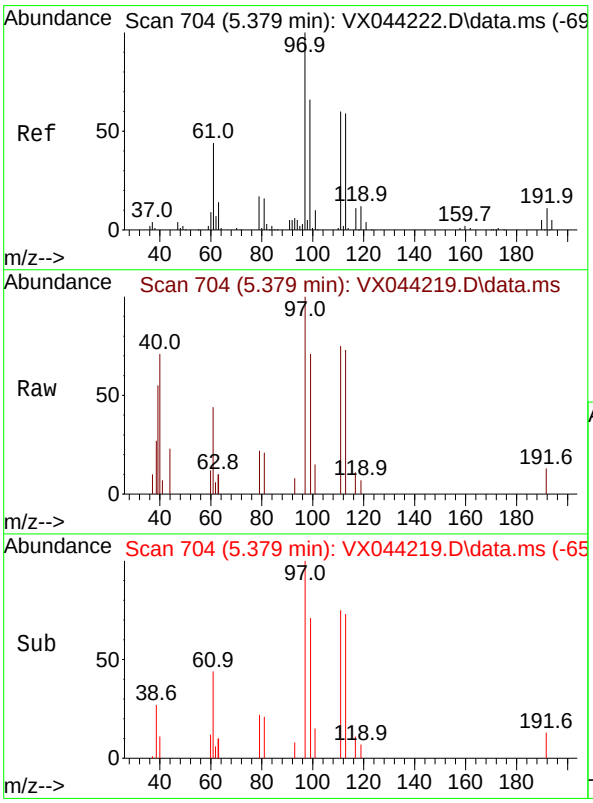
#31
Cyclohexane
Concen: 0.966 ug/l
RT: 5.470 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2594

Ion	Ratio	Lower	Upper
56	100		
69	36.5	24.7	37.1
84	66.7	71.0	106.6#

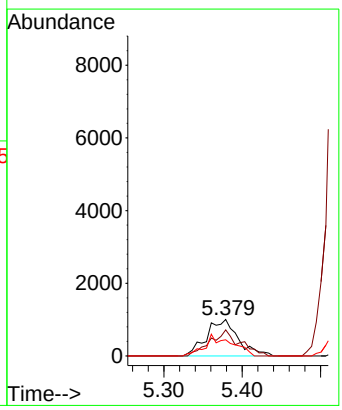


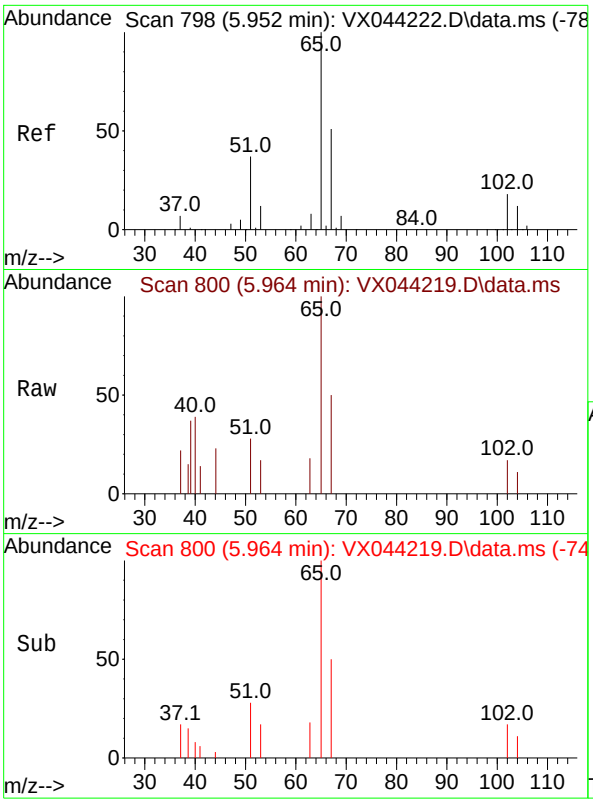


#32
1,1,1-Trichloroethane
Concen: 0.908 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 97 Resp: 2818

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	49.9	35.2	52.8



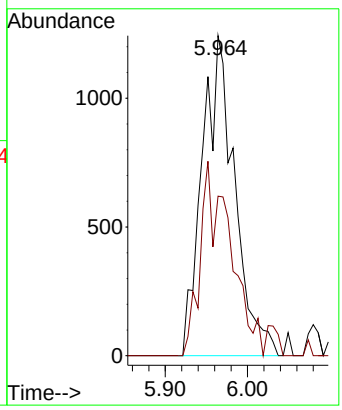


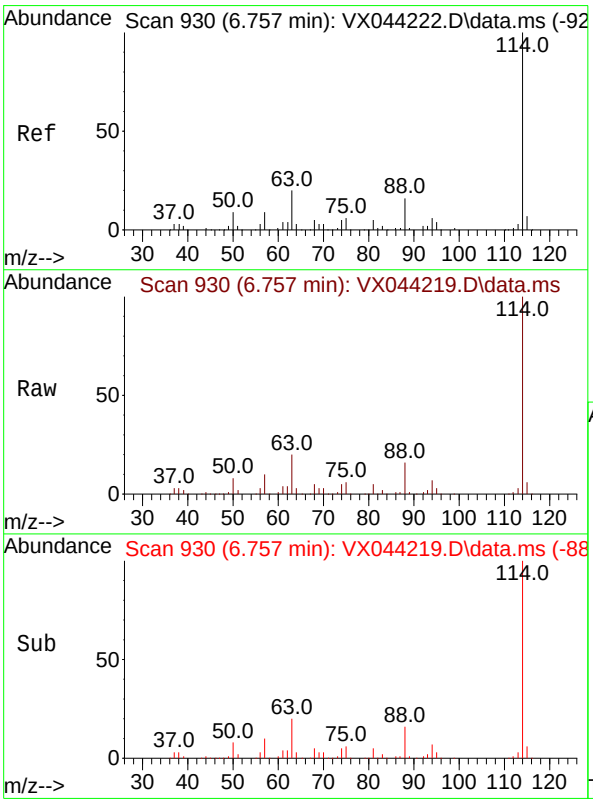
#33
1,2-Dichloroethane-d4
Concen: 1.369 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 3407

Ion	Ratio	Lower	Upper
65	100		
67	24.2	0.0	101.6

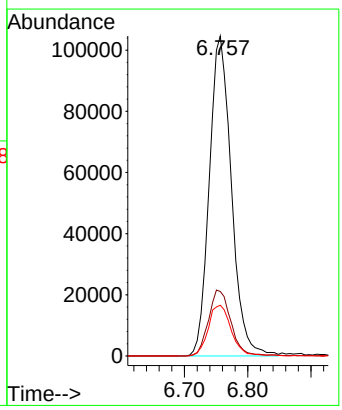


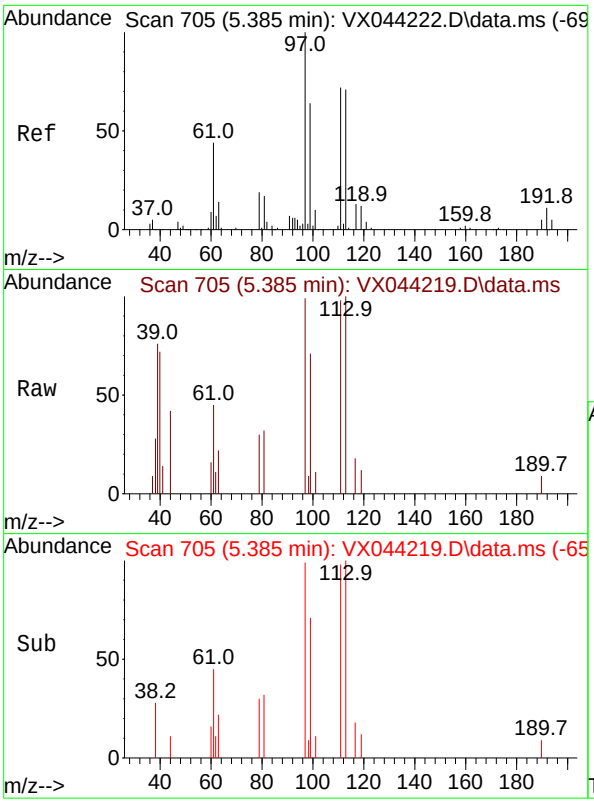


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:114 Resp: 253574

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.6
88	15.8	0.0	31.8



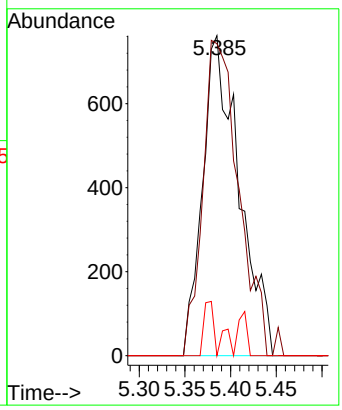


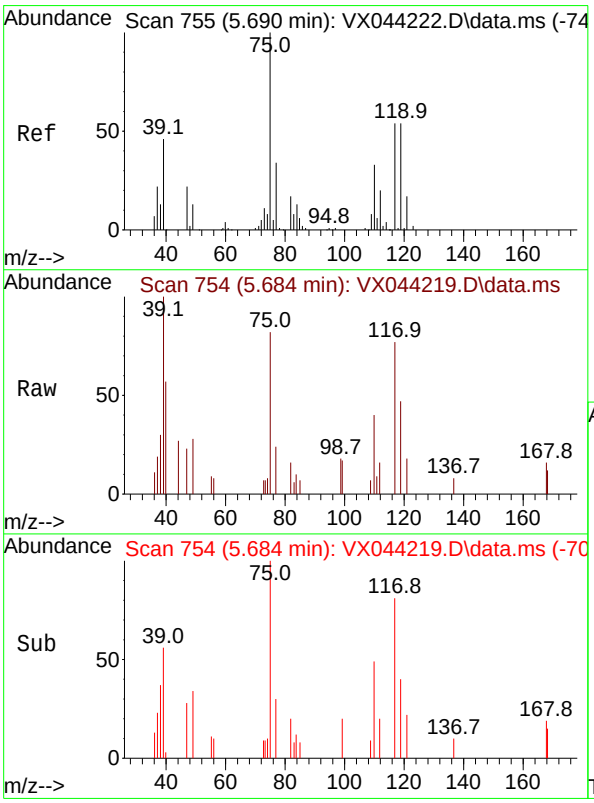
#35
Dibromofluoromethane
Concen: 1.205 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 2117

Ion	Ratio	Lower	Upper
113	100		
111	96.5	80.4	120.6
192	5.4	13.3	19.9#

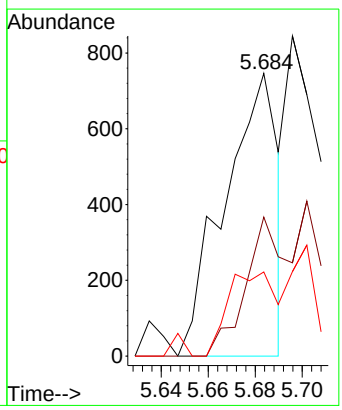


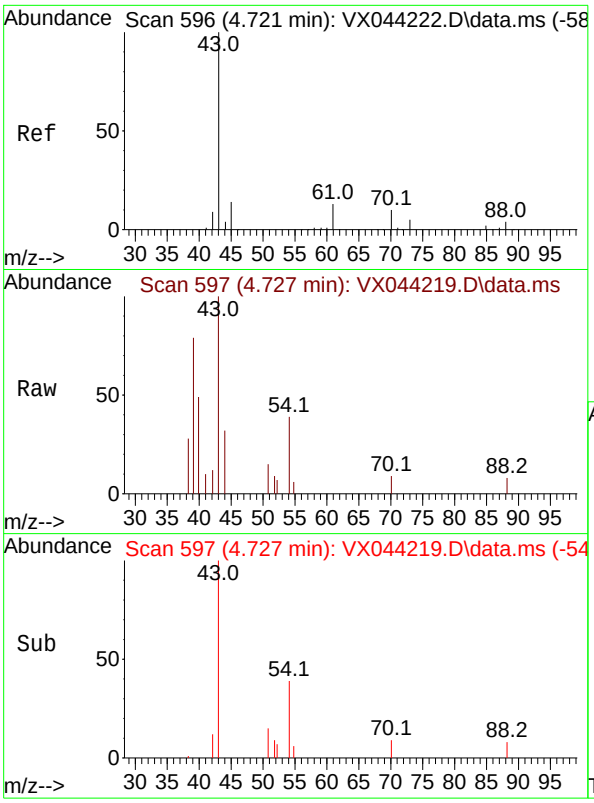


#36
1,1-Dichloropropene
Concen: 0.519 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 1178

Ion	Ratio	Lower	Upper
75	100		
110	38.7	17.3	51.7
77	26.7	25.4	38.0



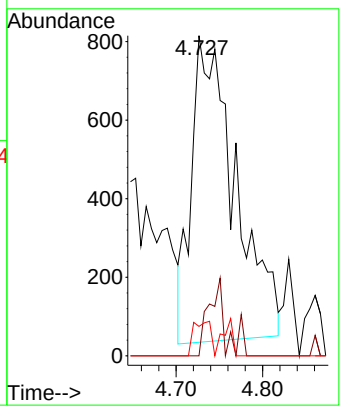


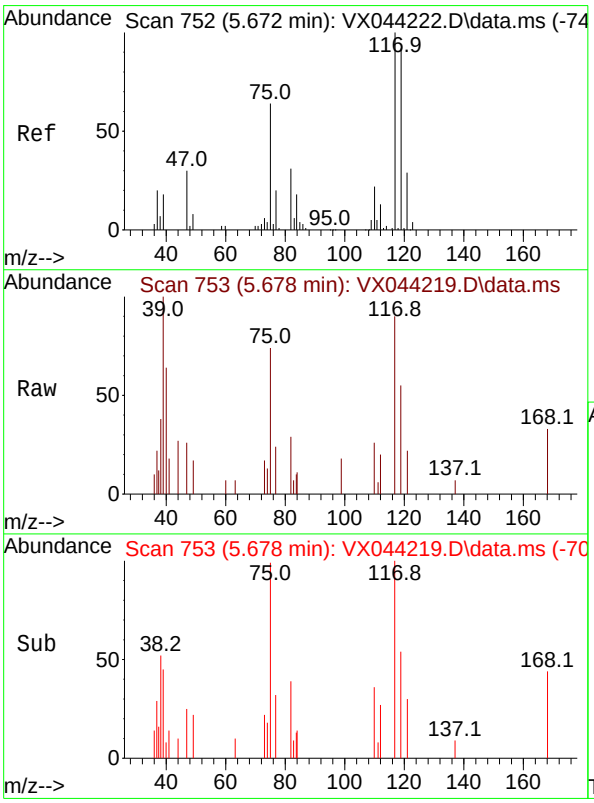
#37
Ethyl Acetate
Concen: 0.969 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 2718

Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.8	14.8#
70	0.0	7.7	11.5#

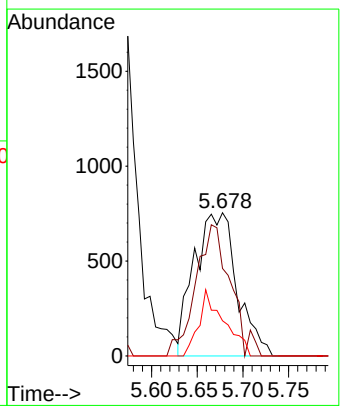


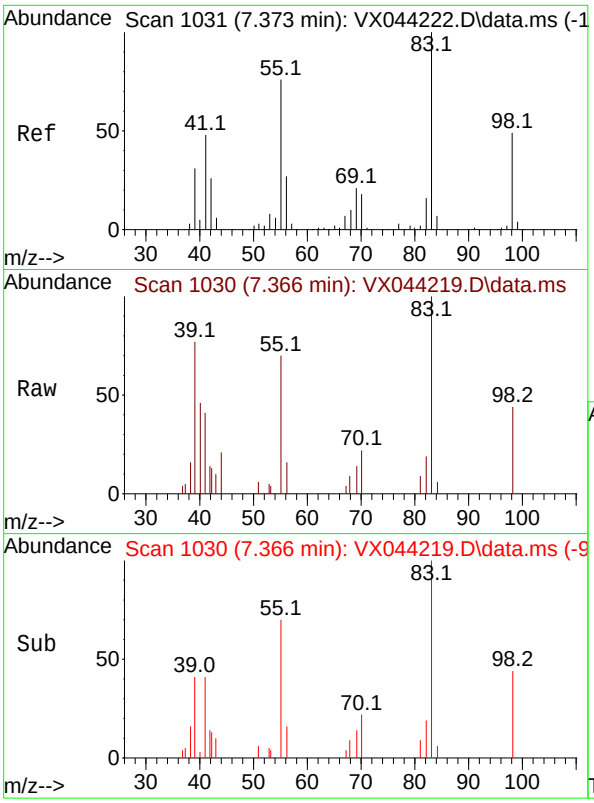


#38
Carbon Tetrachloride
Concen: 1.004 ug/l
RT: 5.678 min Scan# 753
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 2454

Ion	Ratio	Lower	Upper
117	100		
119	61.1	74.2	111.4#
121	24.5	23.0	34.6



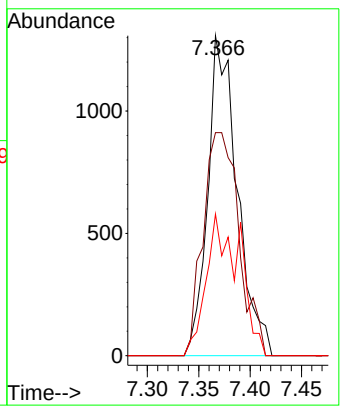


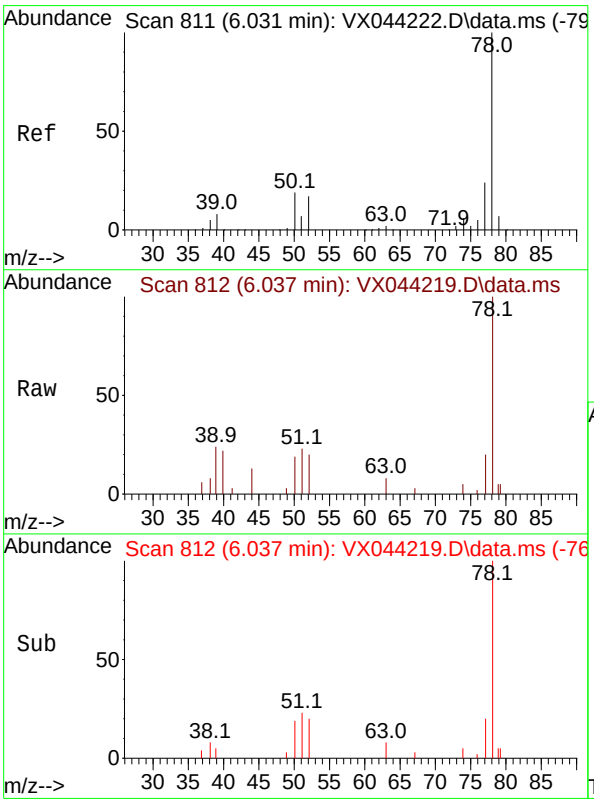
#39
Methylcyclohexane
Concen: 0.960 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2606

Ion	Ratio	Lower	Upper
83	100		
55	69.7	60.7	91.1
98	44.3	38.9	58.3

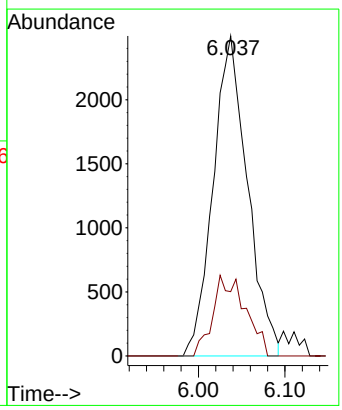


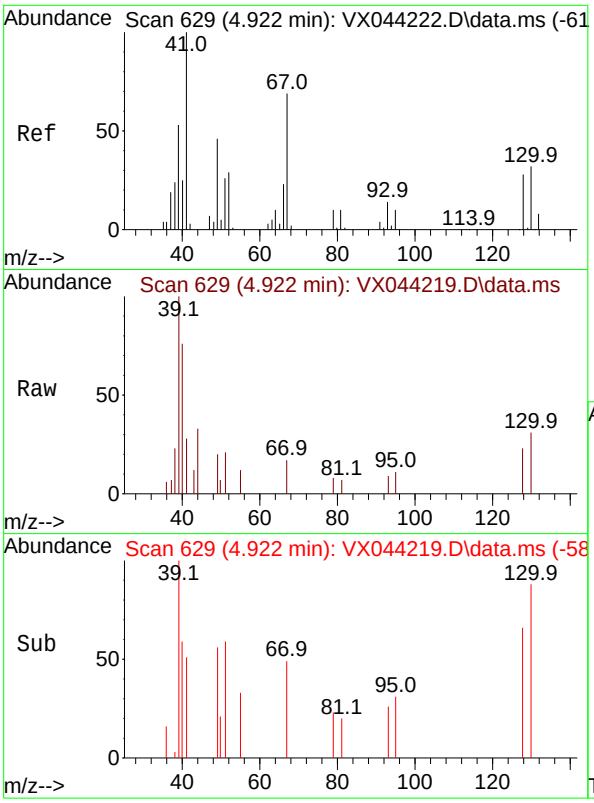


#40
Benzene
Concen: 0.996 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 78 Resp: 6864

Ion	Ratio	Lower	Upper
78	100		
77	20.1	19.3	28.9



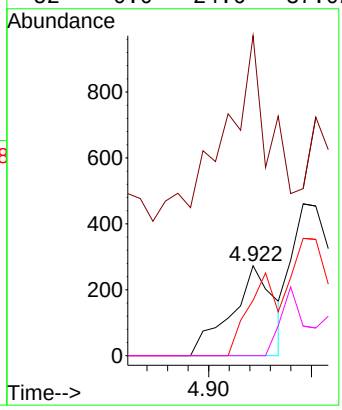


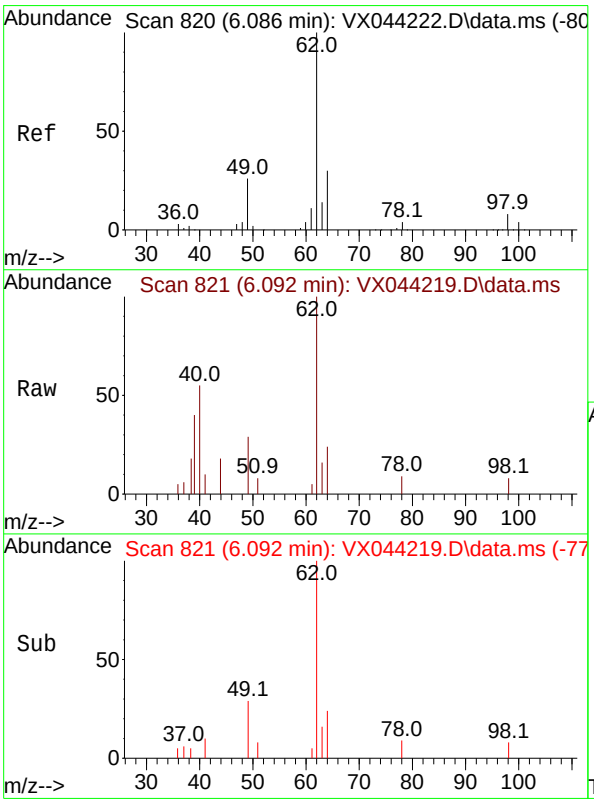
#41
Methacrylonitrile
Concen: 0.262 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 390

Ion	Ratio	Lower	Upper
41	100		
39	216.9	44.2	66.4#
67	0.0	57.2	85.8#
52	0.0	24.6	37.0#

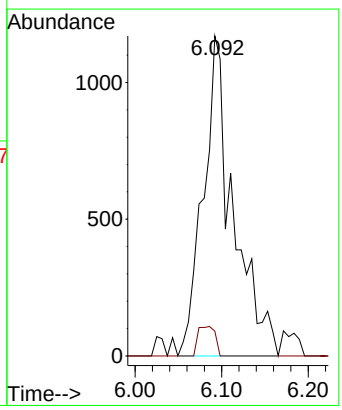


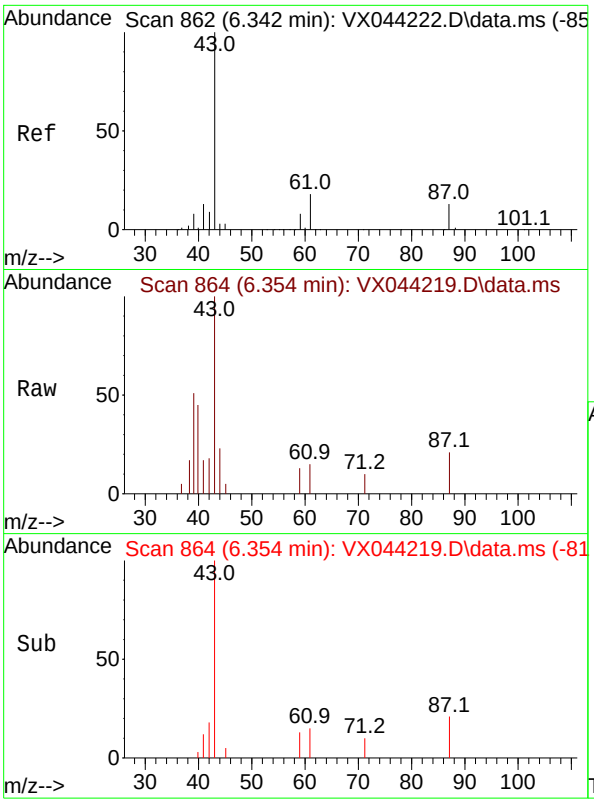


#42
1,2-Dichloroethane
Concen: 0.990 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 62 Resp: 2810

Ion	Ratio	Lower	Upper
62	100		
98	5.3	0.0	15.8



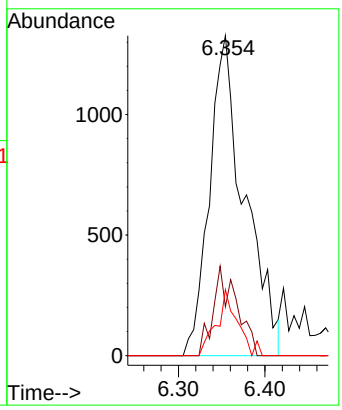


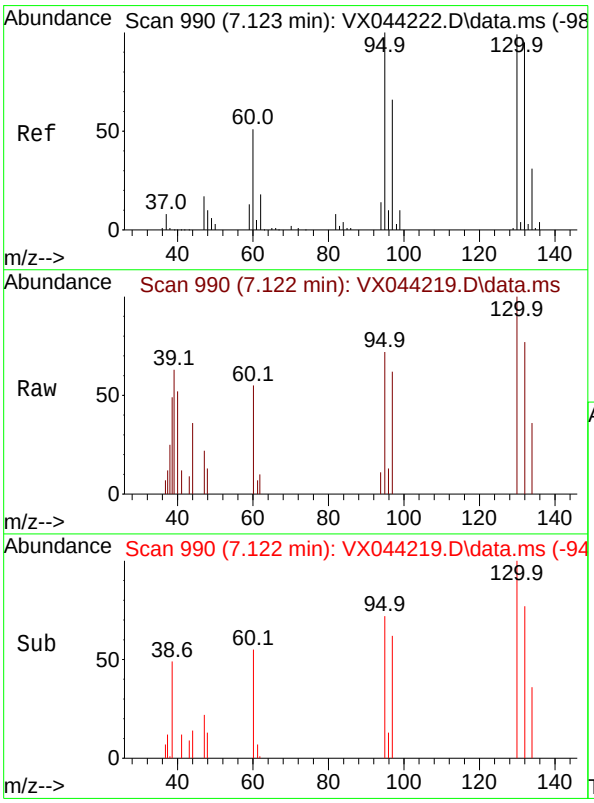
#43
Isopropyl Acetate
Concen: 0.851 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3734

Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.2	21.2
87	12.4	10.2	15.2

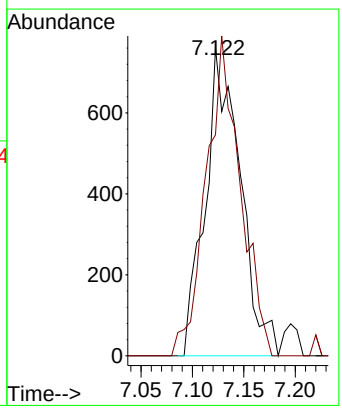


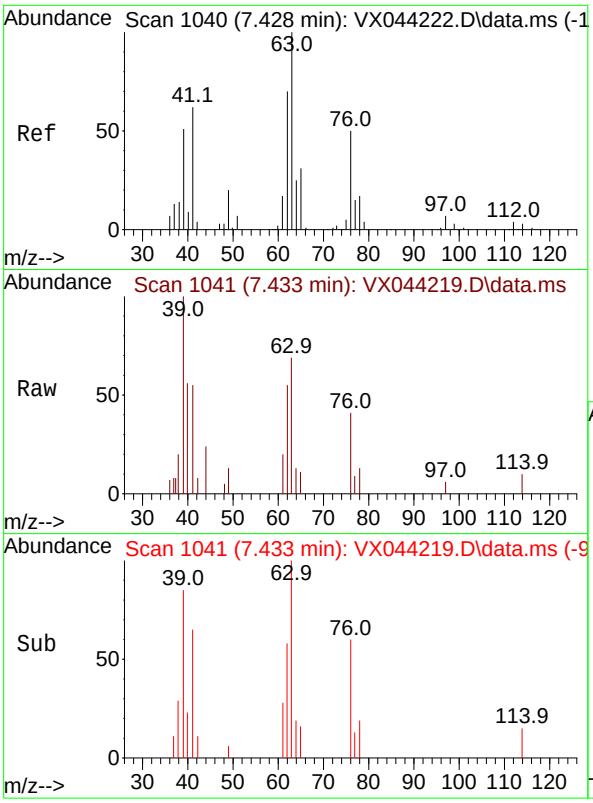


#44
Trichloroethene
Concen: 1.051 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:130 Resp: 1806

Ion	Ratio	Lower	Upper
130	100		
95	71.7	0.0	201.4



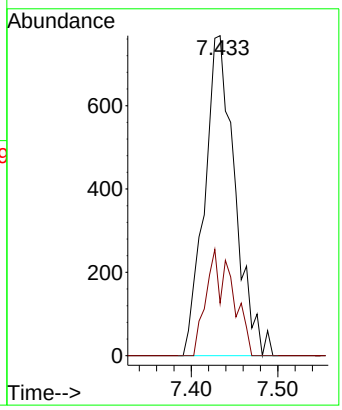


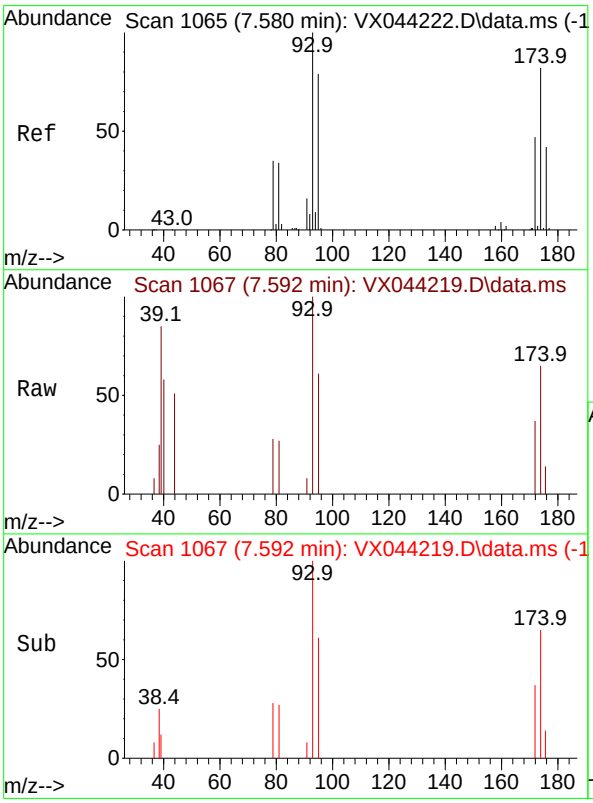
#45
1,2-Dichloropropane
Concen: 1.059 ug/l
RT: 7.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 1865

Ion	Ratio	Lower	Upper
63	100		
65	16.4	24.6	37.0#

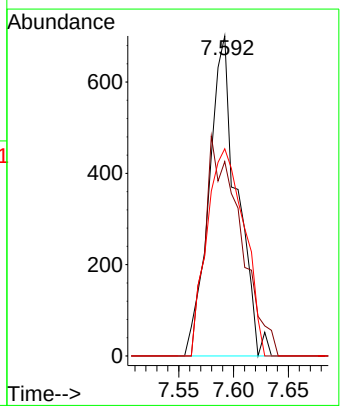


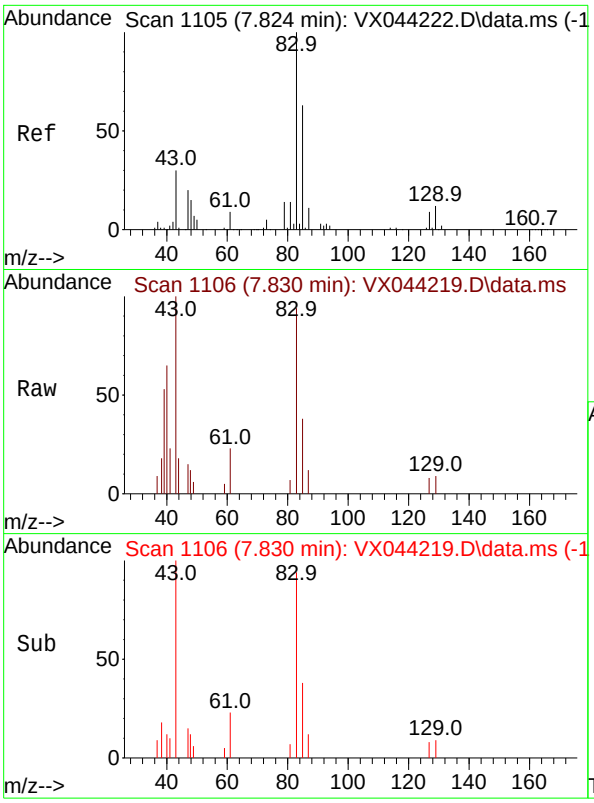


#46
Dibromomethane
Concen: 0.916 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 93 Resp: 1251

Ion	Ratio	Lower	Upper
93	100		
95	85.8	65.4	98.2
174	86.3	67.9	101.9



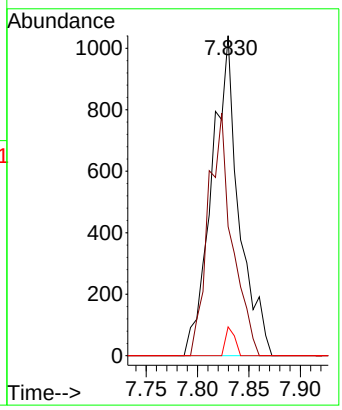


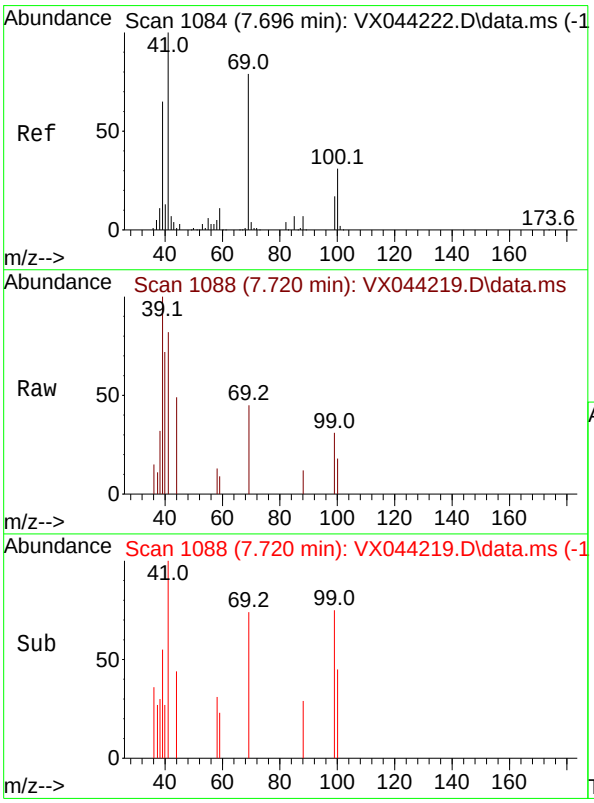
#47
Bromodichloromethane
Concen: 0.816 ug/l
RT: 7.830 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 1926

Ion	Ratio	Lower	Upper
83	100		
85	40.3	50.6	75.8#
127	9.0	7.3	10.9

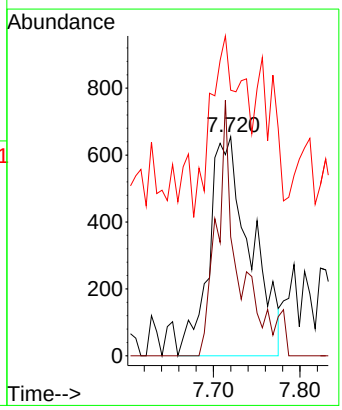


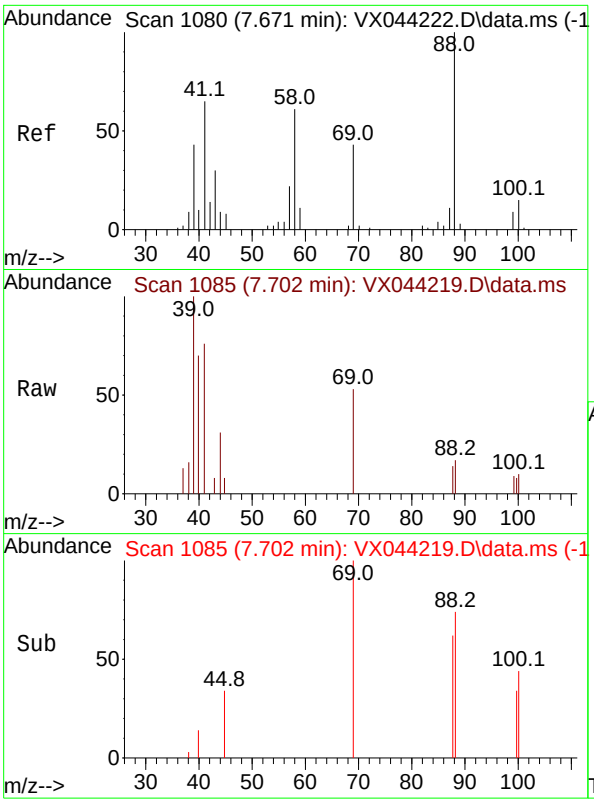


#48
Methyl methacrylate
Concen: 1.018 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. 0.024 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 41 Resp: 2168

Ion	Ratio	Lower	Upper
41	100		
69	43.9	62.4	93.6#
39	64.1	53.3	79.9



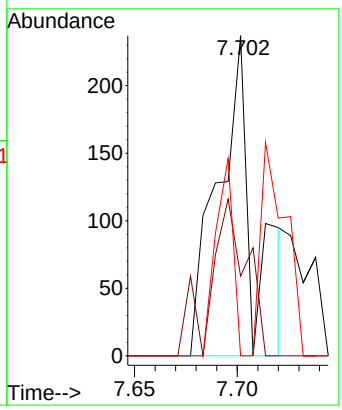


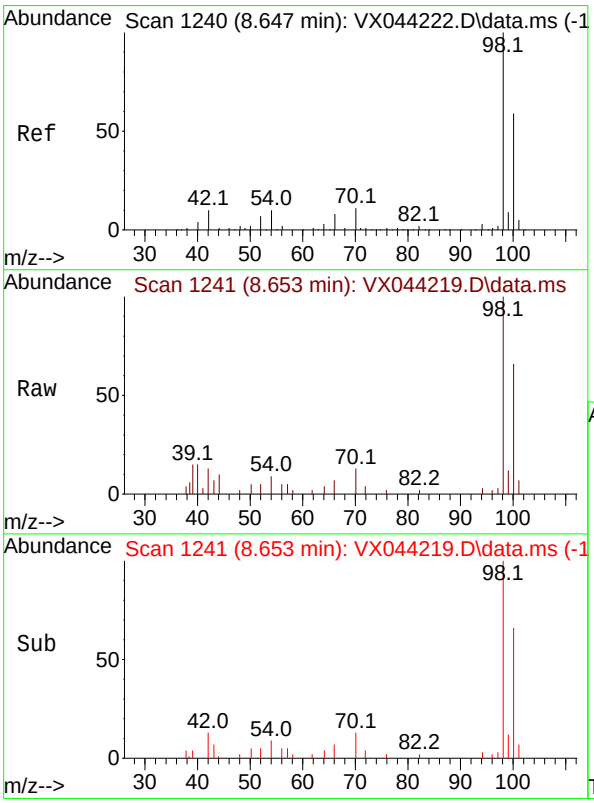
#49
1,4-Dioxane
Concen: 7.943 ug/l
RT: 7.702 min Scan# 1
Delta R.T. 0.030 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 289

Ion	Ratio	Lower	Upper
88	100		
43	49.1	27.1	40.7#
58	30.1	41.0	61.4#

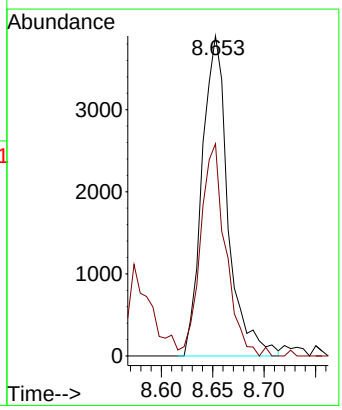


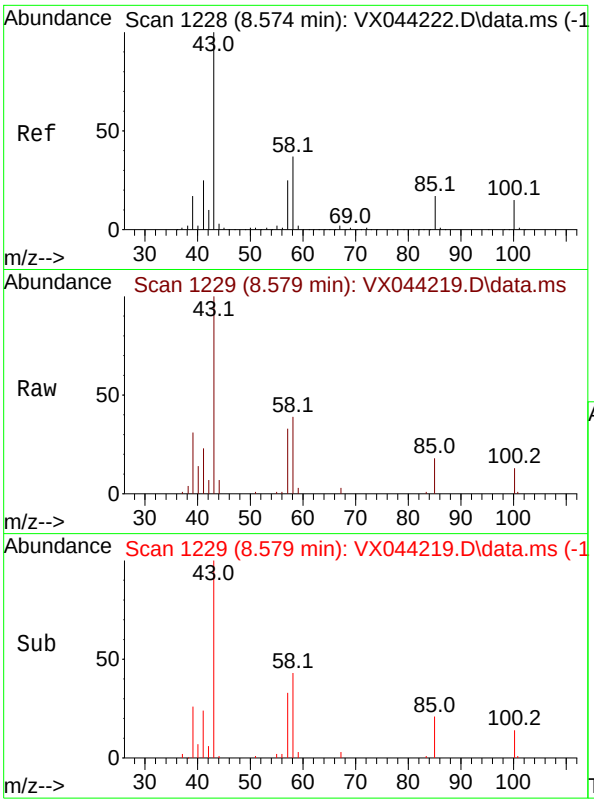


#50
Toluene-d8
Concen: 1.156 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 98 Resp: 6848

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.5	77.3



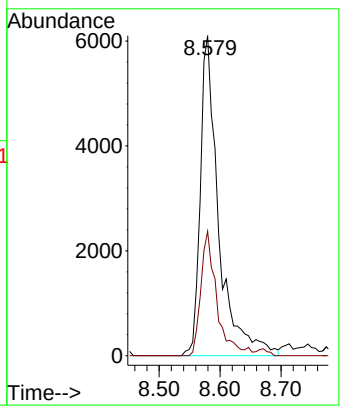


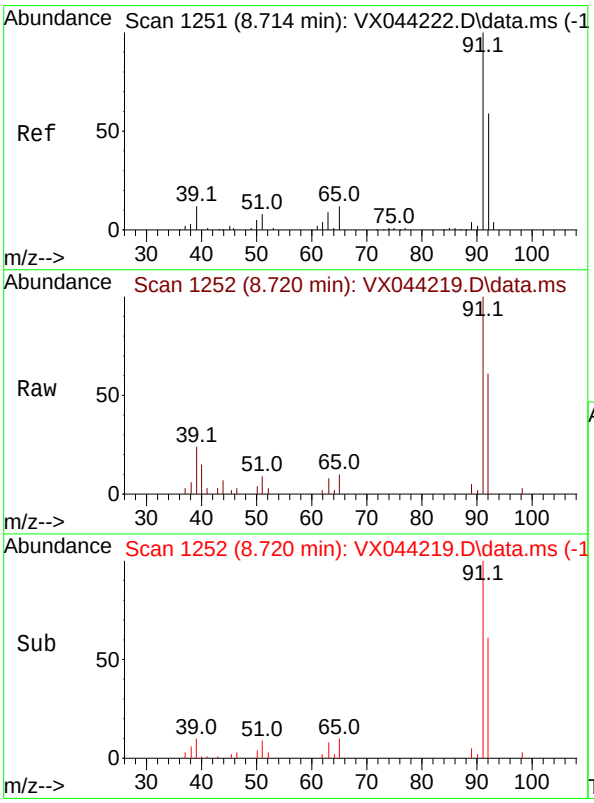
#51
4-Methyl-2-Pentanone
Concen: 4.547 ug/l
RT: 8.579 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 12824

Ion	Ratio	Lower	Upper
43	100		
58	34.0	29.4	44.0

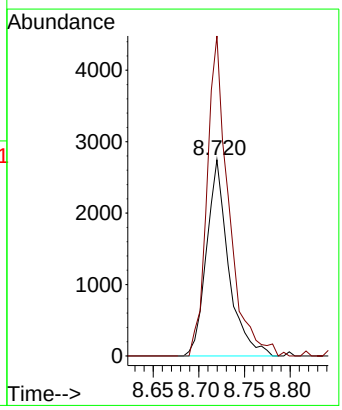


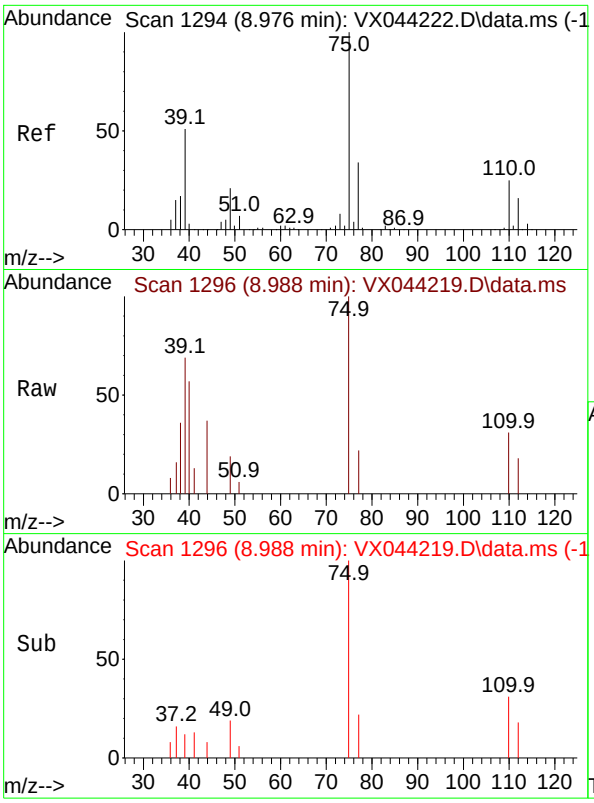


#52
Toluene
Concen: 1.064 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 92 Resp: 4606

Ion	Ratio	Lower	Upper
92	100		
91	160.1	137.0	205.6



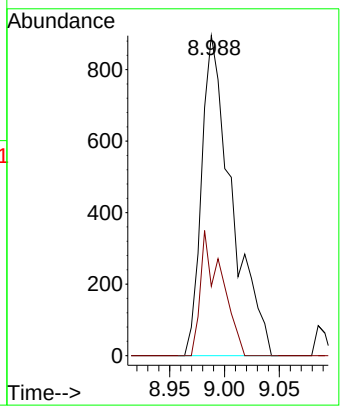


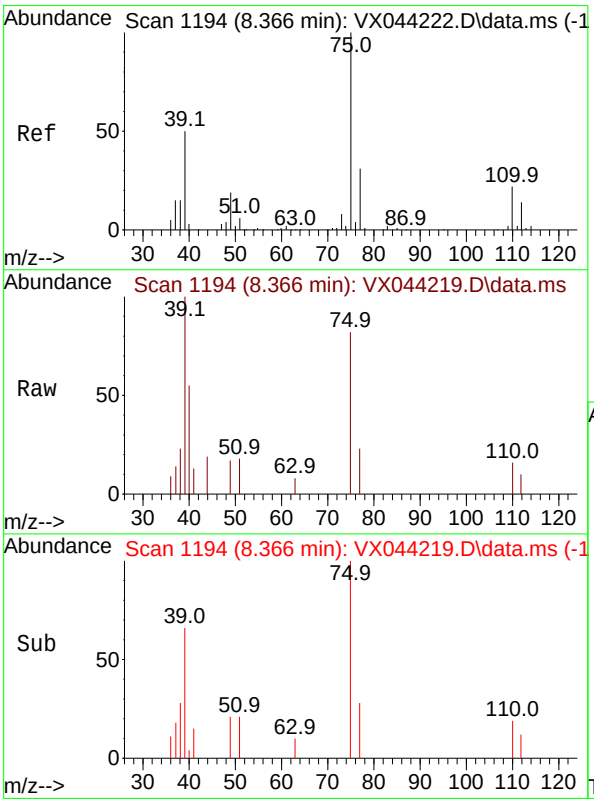
#53
t-1,3-Dichloropropene
Concen: 1.694 ug/l
RT: 8.988 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1716

Ion	Ratio	Lower	Upper
75	100		
77	21.7	27.2	40.8#

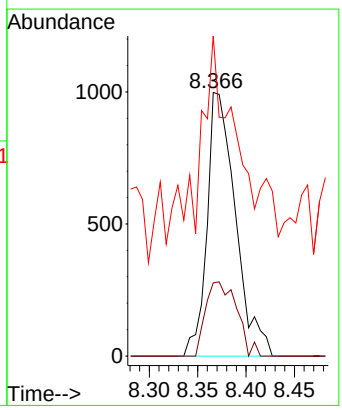


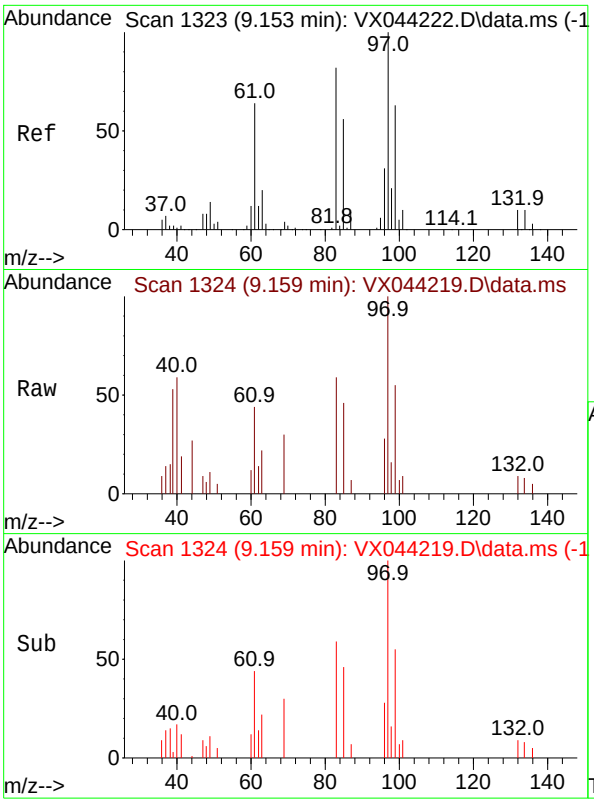


#54
cis-1,3-Dichloropropene
Concen: 0.797 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2048

Ion	Ratio	Lower	Upper
75	100		
77	27.8	24.7	37.1
39	76.2	40.3	60.5#



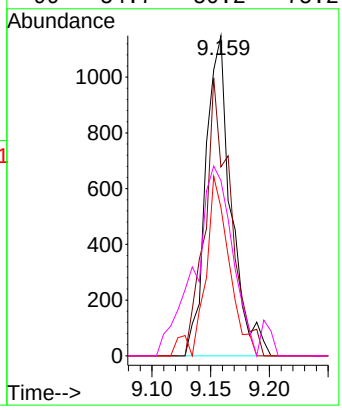


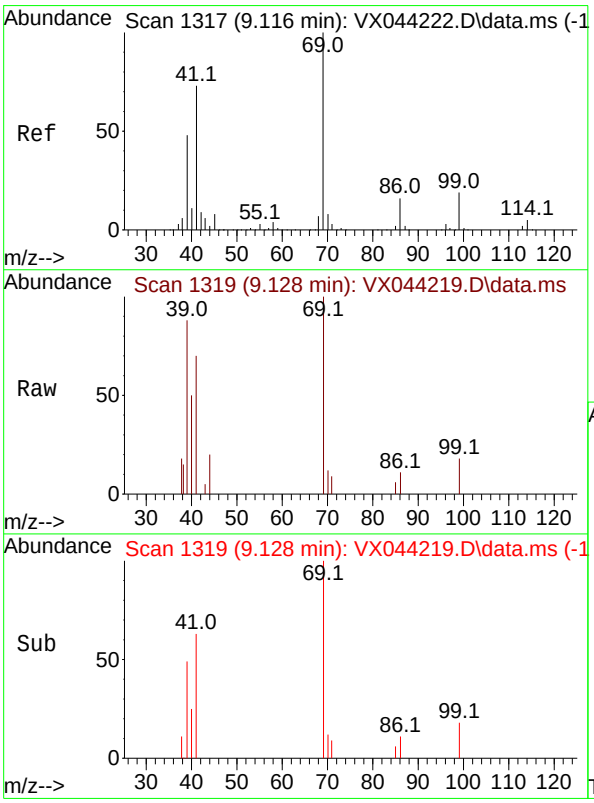
#55
1,1,2-Trichloroethane
Concen: 0.994 ug/l
RT: 9.159 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 1710

Ion	Ratio	Lower	Upper
97	100		
83	59.0	65.3	97.9#
85	46.3	44.6	67.0
99	54.7	50.2	75.2

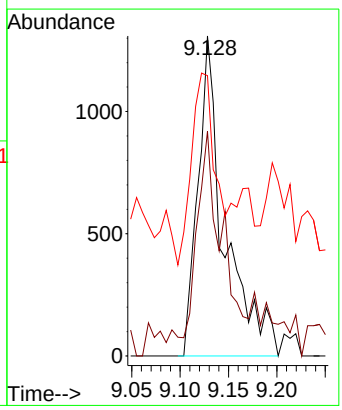


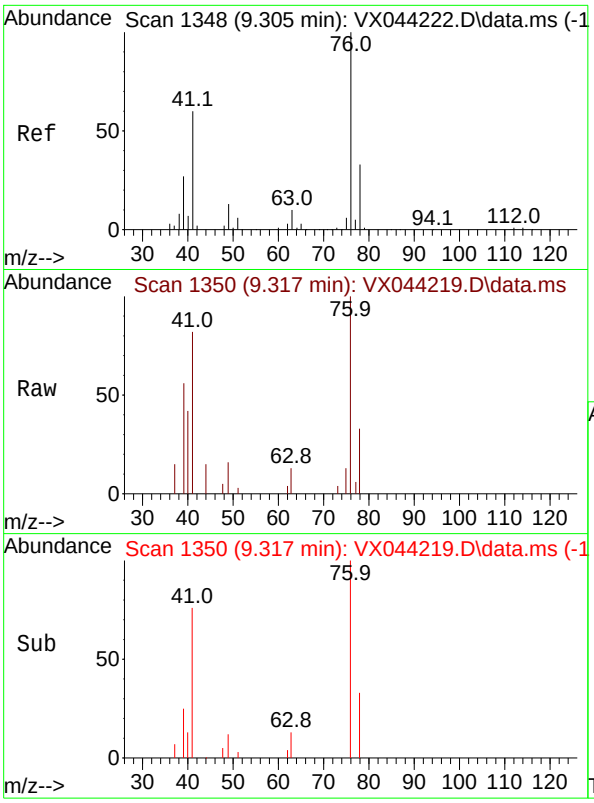


#56
Ethyl methacrylate
Concen: 0.917 ug/l
RT: 9.128 min Scan# 1319
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 69 Resp: 2490

Ion	Ratio	Lower	Upper
69	100		
41	55.7	56.6	85.0#
39	53.1	37.4	56.0



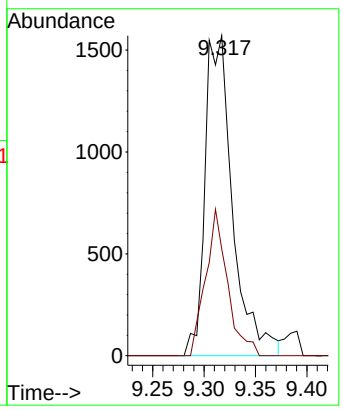


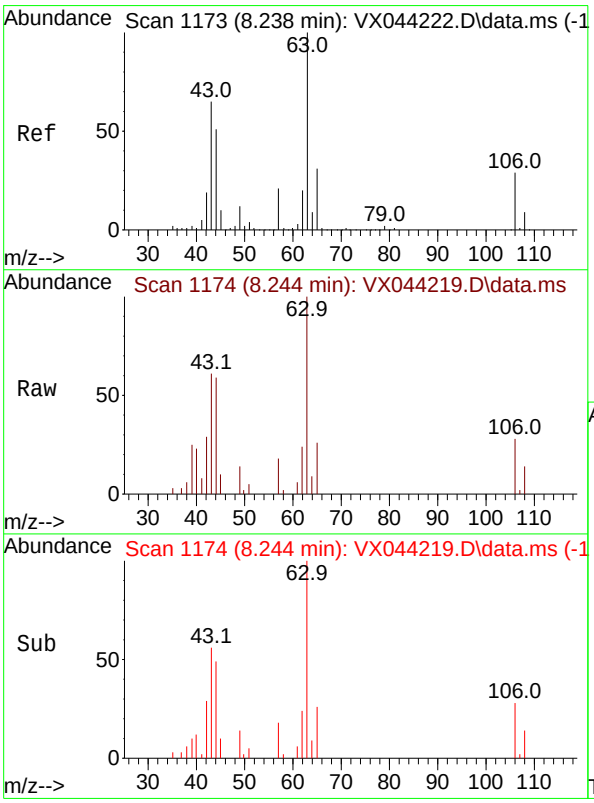
#57
1,3-Dichloropropane
Concen: 0.979 ug/l
RT: 9.317 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2929

Ion	Ratio	Lower	Upper
76	100		
78	36.5	26.5	39.7

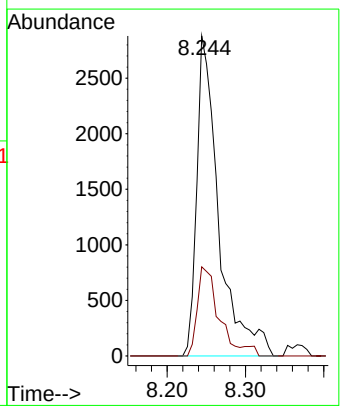


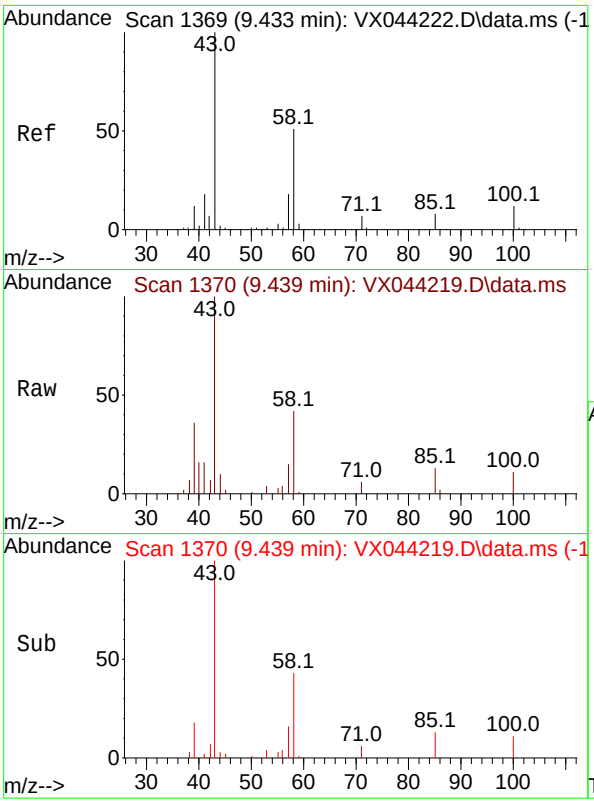


#58
2-Chloroethyl Vinyl ether
Concen: 4.105 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 63 Resp: 5621

Ion	Ratio	Lower	Upper
63	100		
106	26.2	22.8	34.2



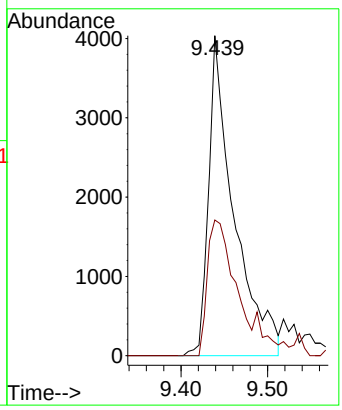


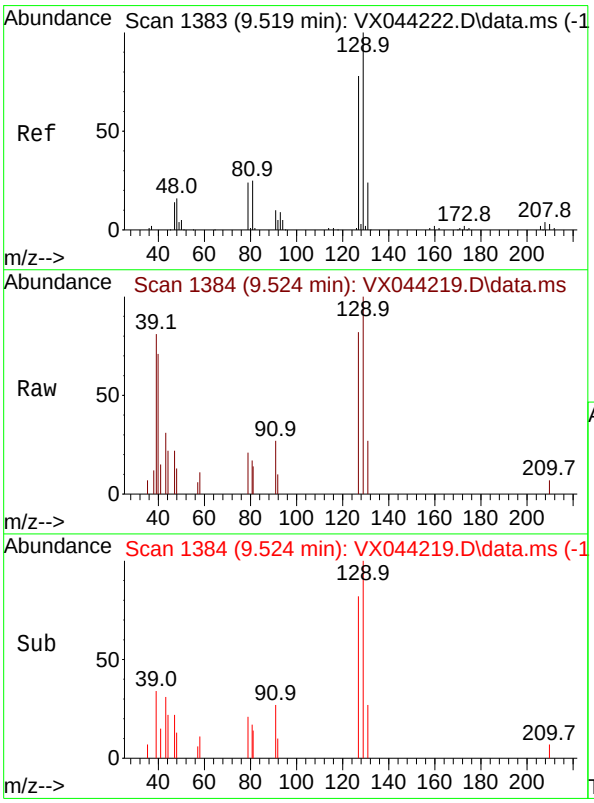
#59
2-Hexanone
Concen: 4.017 ug/l
RT: 9.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 8199

Ion	Ratio	Lower	Upper
43	100		
58	52.5	25.7	77.0

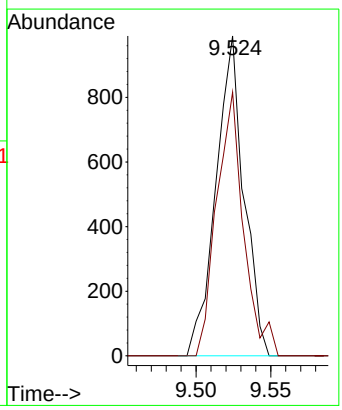


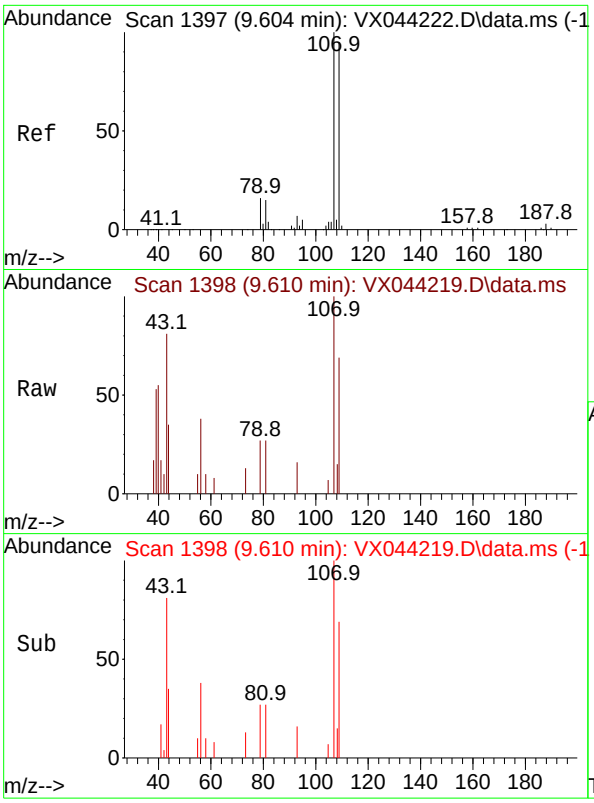


#60
Dibromochloromethane
Concen: 1.953 ug/l
RT: 9.524 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:129 Resp: 1289

Ion	Ratio	Lower	Upper
129	100		
127	79.2	38.5	115.3



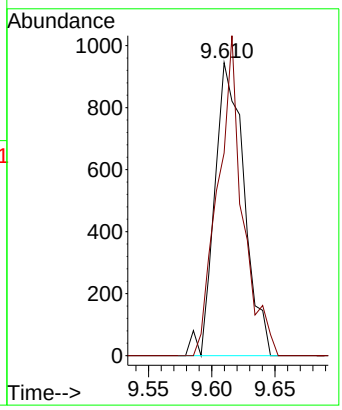


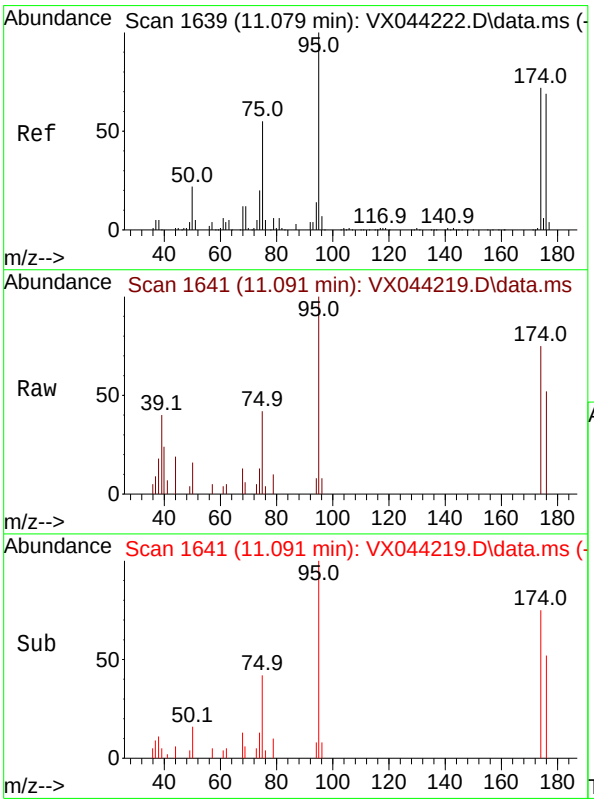
#61
1,2-Dibromoethane
Concen: 0.877 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 1535

Ion	Ratio	Lower	Upper
107	100		
109	91.3	77.0	115.4

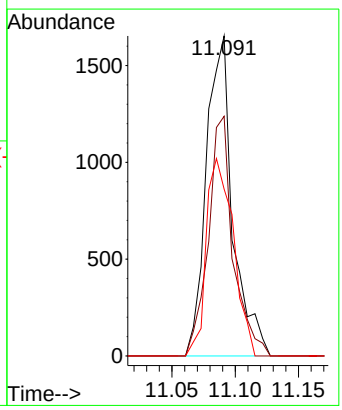


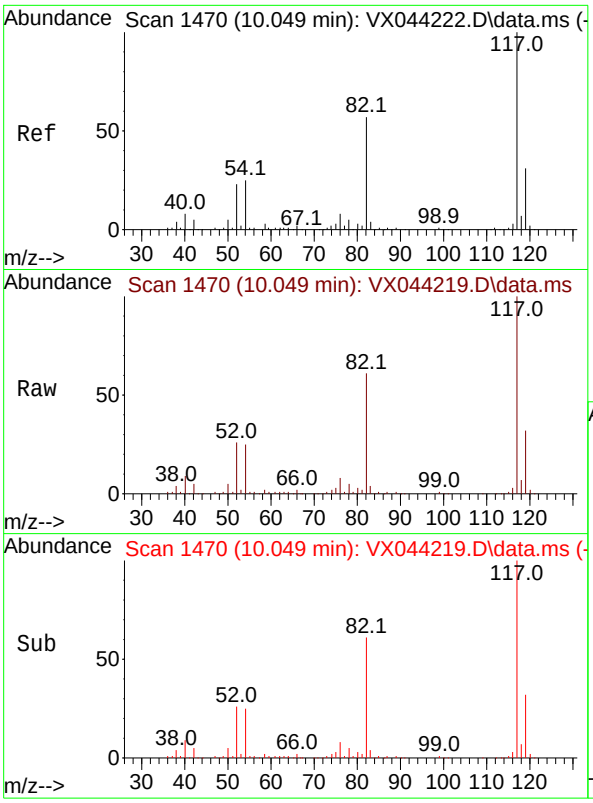


#62
4-Bromofluorobenzene
Concen: 1.158 ug/l
RT: 11.091 min Scan# 1641
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 95 Resp: 2398

Ion	Ratio	Lower	Upper
95	100		
174	70.4	0.0	145.8
176	63.4	0.0	137.8



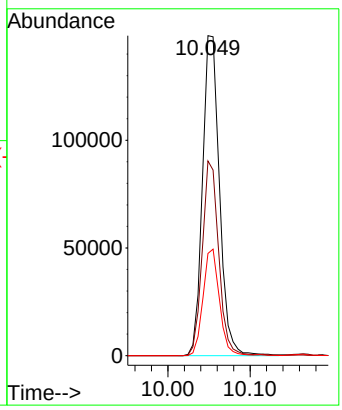


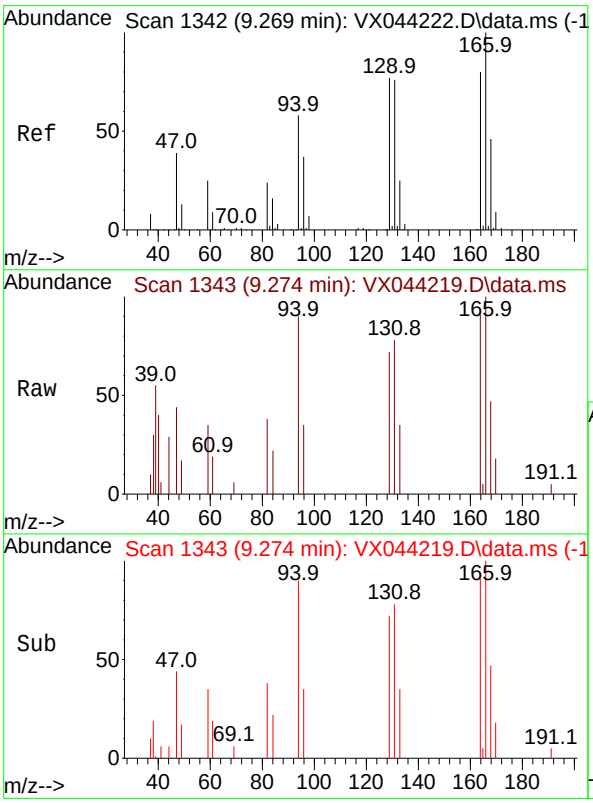
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 213862

Ion	Ratio	Lower	Upper
117	100		
82	60.9	45.8	68.8
119	32.0	25.0	37.4

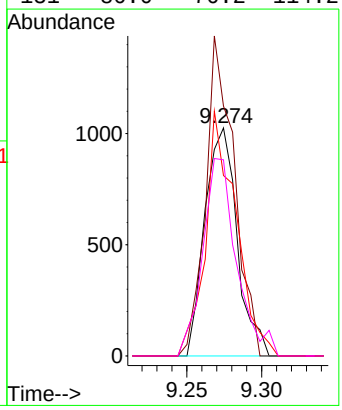


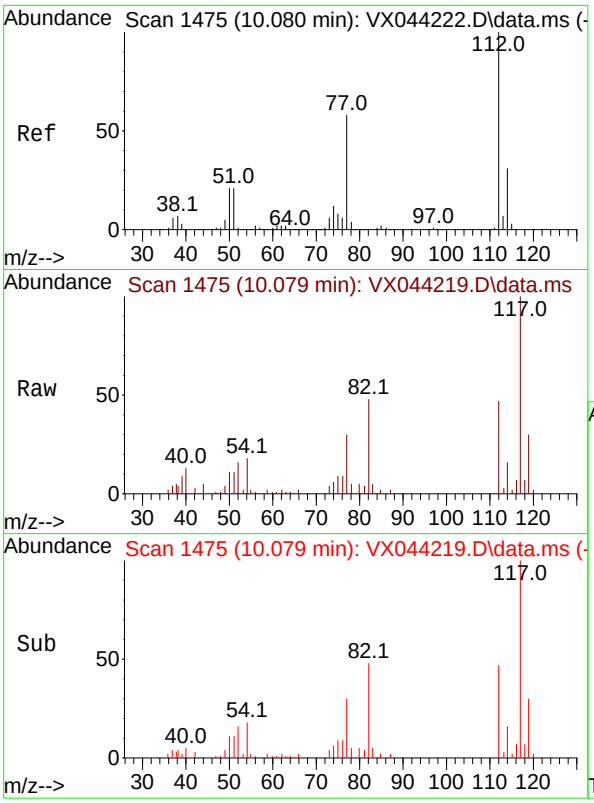


#64
Tetrachloroethene
Concen: 1.082 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:164 Resp: 1536

Ion	Ratio	Lower	Upper
164	100		
166	109.7	100.4	150.6
129	79.2	77.2	115.8
131	86.0	76.2	114.2



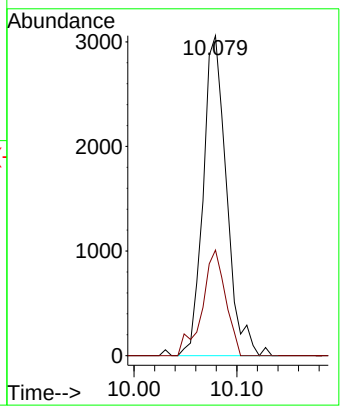


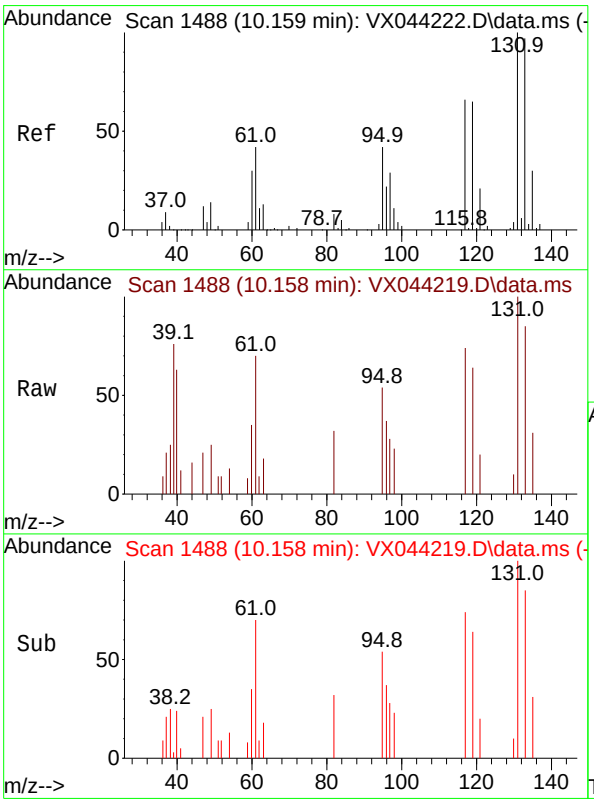
#65
Chlorobenzene
Concen: 1.055 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 4835

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.0	37.6

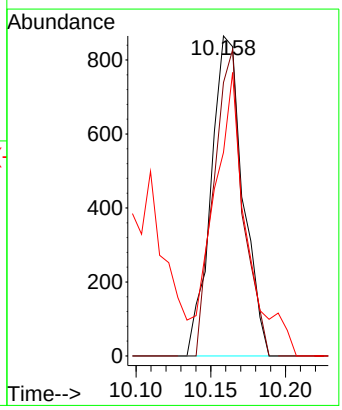


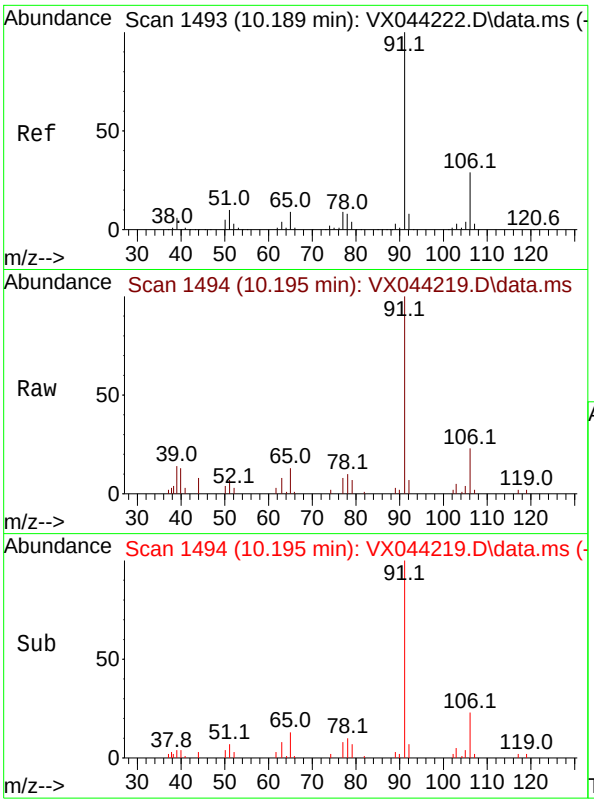


#66
1,1,1,2-Tetrachloroethane
Concen: 0.875 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:131 Resp: 1288

Ion	Ratio	Lower	Upper
131	100		
133	87.3	47.3	141.8
119	0.0	31.6	95.0#



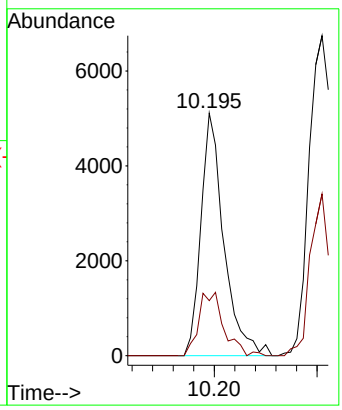


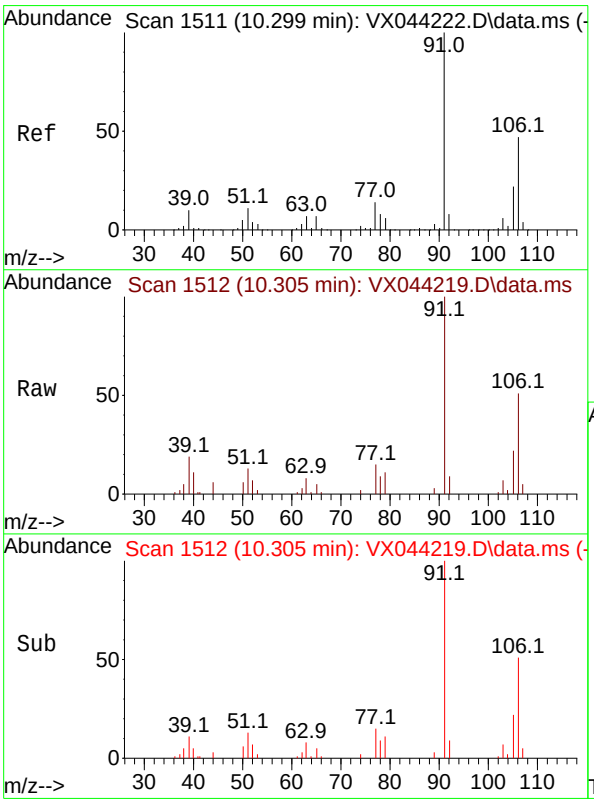
#67
Ethyl Benzene
Concen: 1.001 ug/l
RT: 10.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 7924

Ion	Ratio	Lower	Upper
91	100		
106	22.7	23.5	35.3#

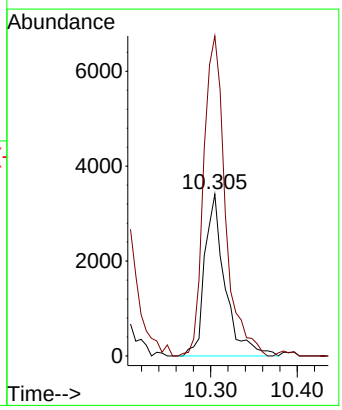


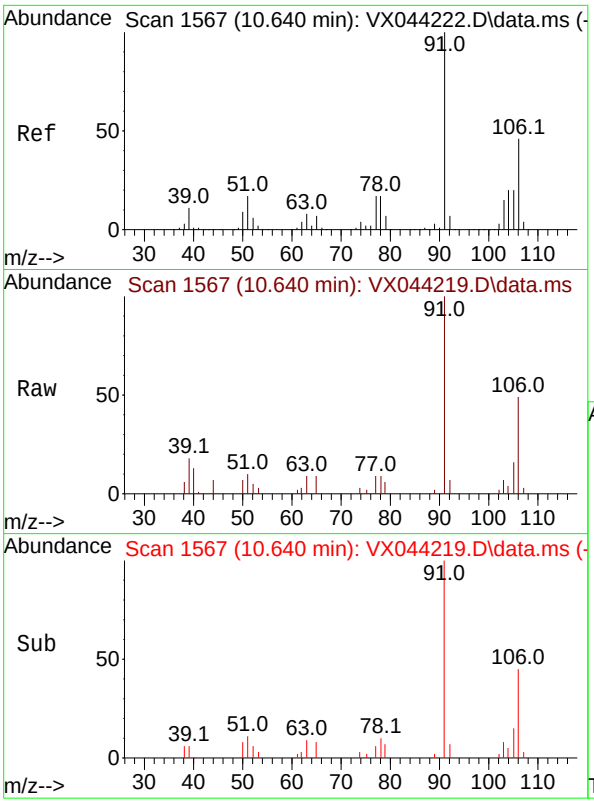


#68
m/p-Xylenes
Concen: 1.922 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:106 Resp: 5583

Ion	Ratio	Lower	Upper
106	100		
91	210.1	170.2	255.2



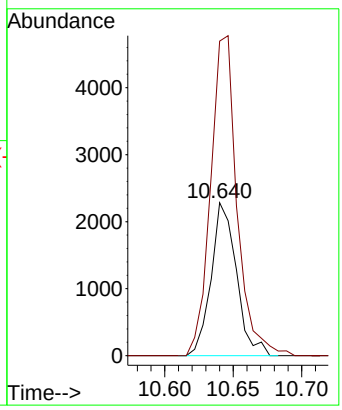


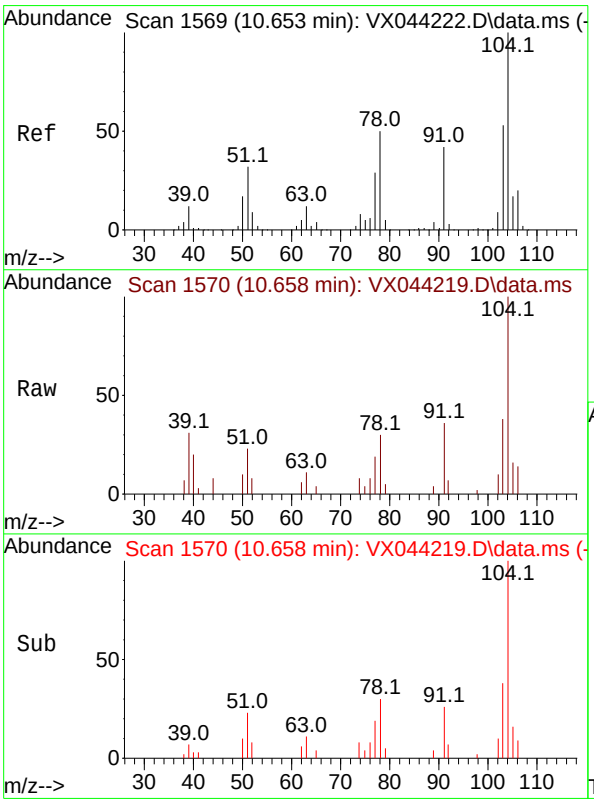
#69
o-Xylene
Concen: 0.998 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 2933

Ion	Ratio	Lower	Upper
106	100		
91	218.2	112.3	337.0

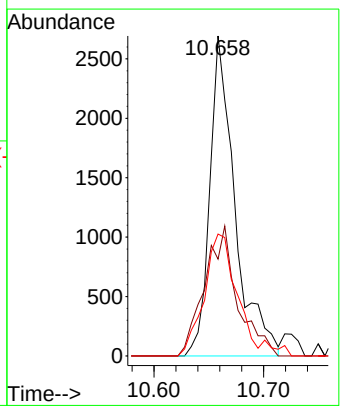


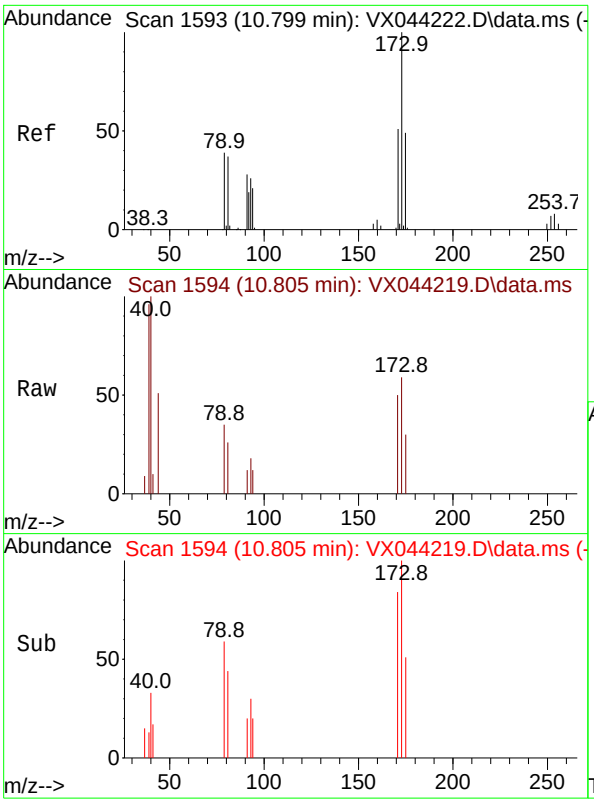


#70
Styrene
Concen: 0.914 ug/l
RT: 10.658 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:104 Resp: 4306

Ion	Ratio	Lower	Upper
104	100		
78	52.8	44.6	67.0
103	51.2	45.4	68.0



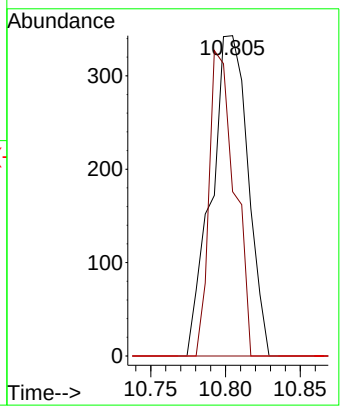


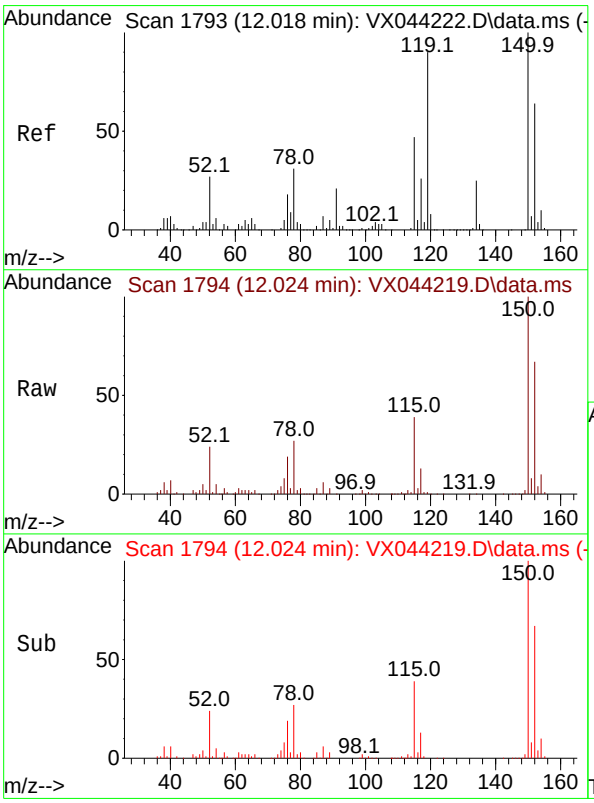
#71
Bromoform
Concen: 1.847 ug/l
RT: 10.805 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 584

Ion	Ratio	Lower	Upper
173	100		
175	66.1	23.8	71.4
254	0.0	0.0	0.0

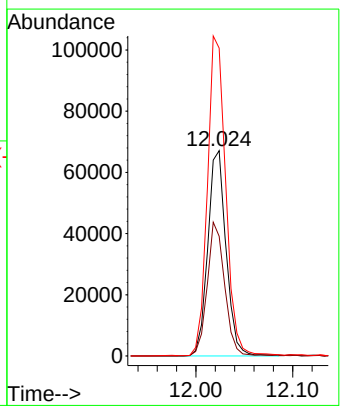


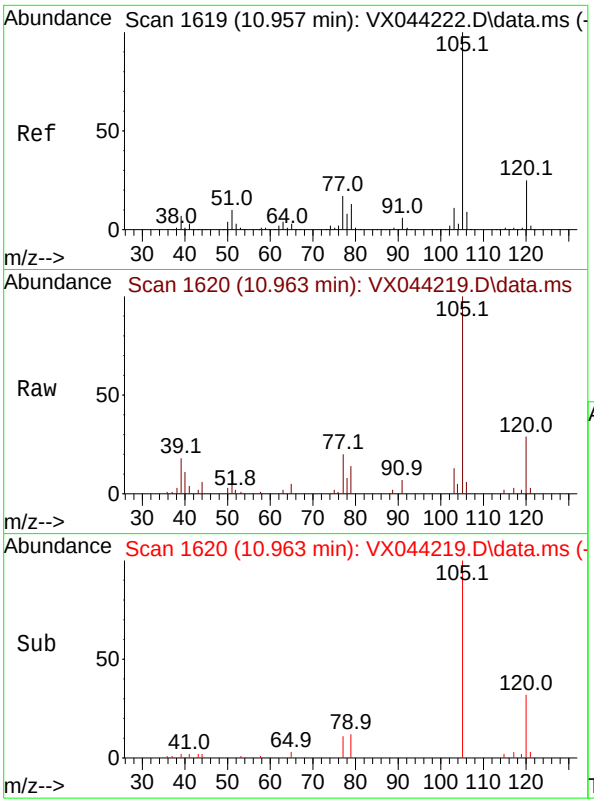


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:152 Resp: 88334

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.5	133.3
150	155.1	0.0	353.8



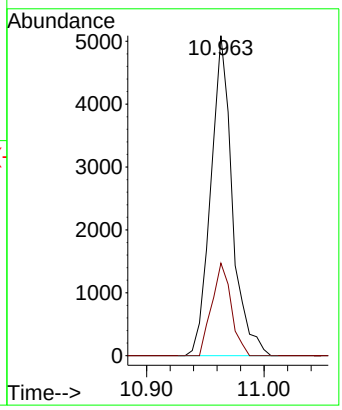


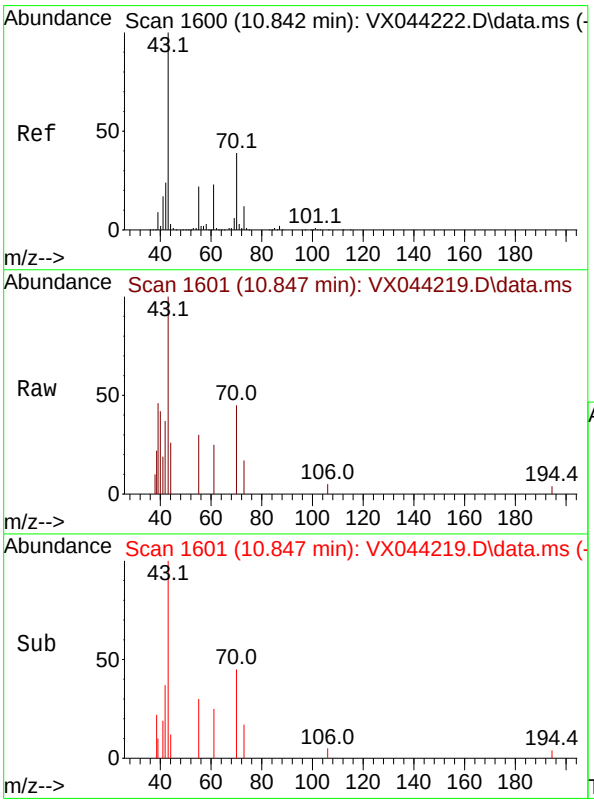
#73
Isopropylbenzene
Concen: 0.957 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6474

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

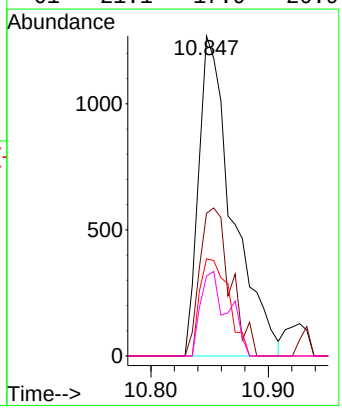


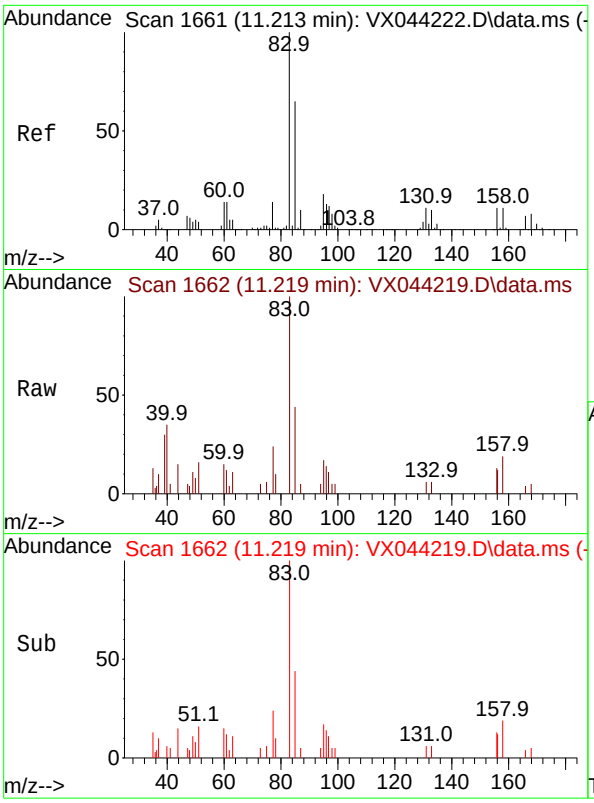


#74
N-amyl acetate
Concen: 0.811 ug/l
RT: 10.847 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 43 Resp: 2536

Ion	Ratio	Lower	Upper
43	100		
70	41.9	31.9	47.9
55	26.0	17.9	26.9
61	21.1	17.9	26.9



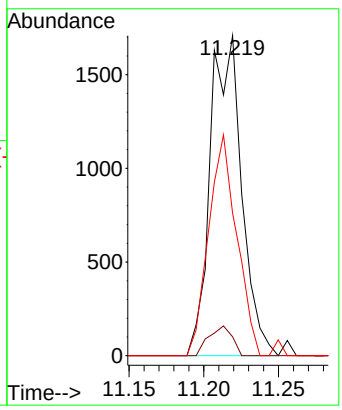


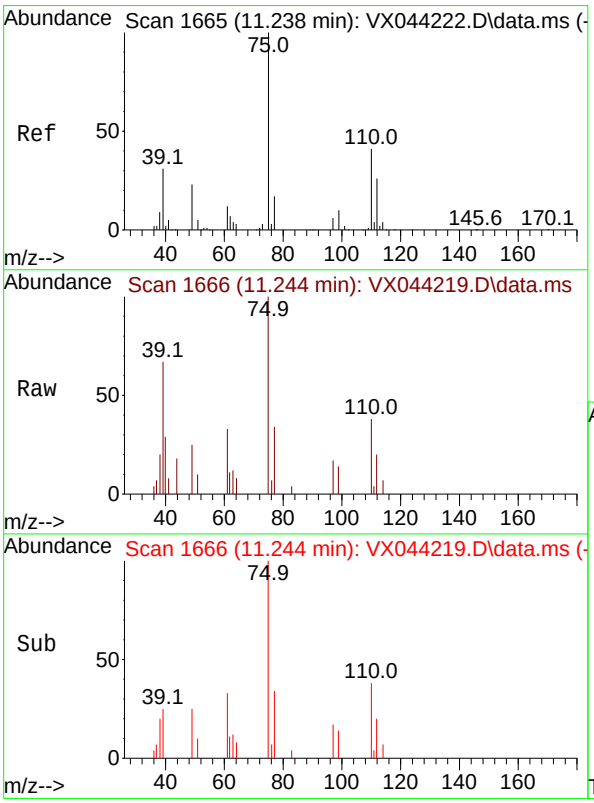
#75
1,1,2,2-Tetrachloroethane
Concen: 1.061 ug/l
RT: 11.219 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2491

Ion	Ratio	Lower	Upper
83	100		
131	6.9	5.1	15.4
85	61.8	32.5	97.4

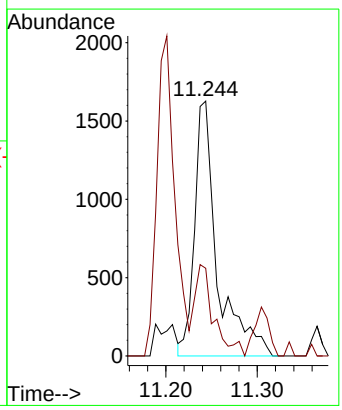


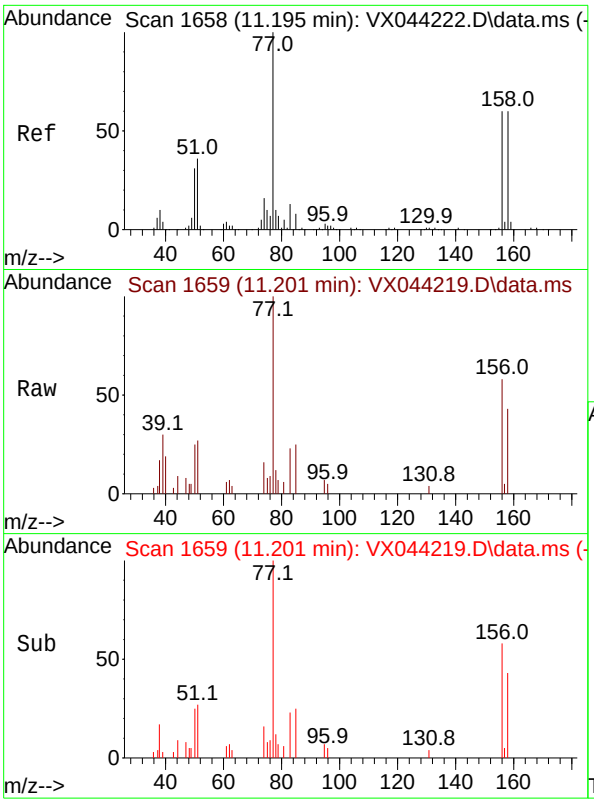


#76
1,2,3-Trichloropropane
Concen: 1.402 ug/l
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 2810

Ion	Ratio	Lower	Upper
75	100		
77	29.9	20.9	62.7



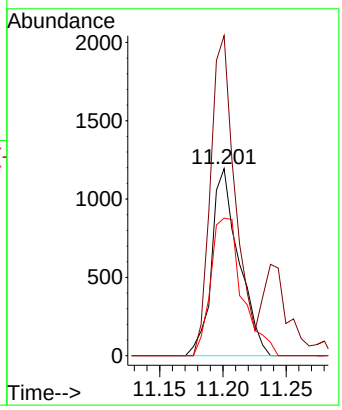


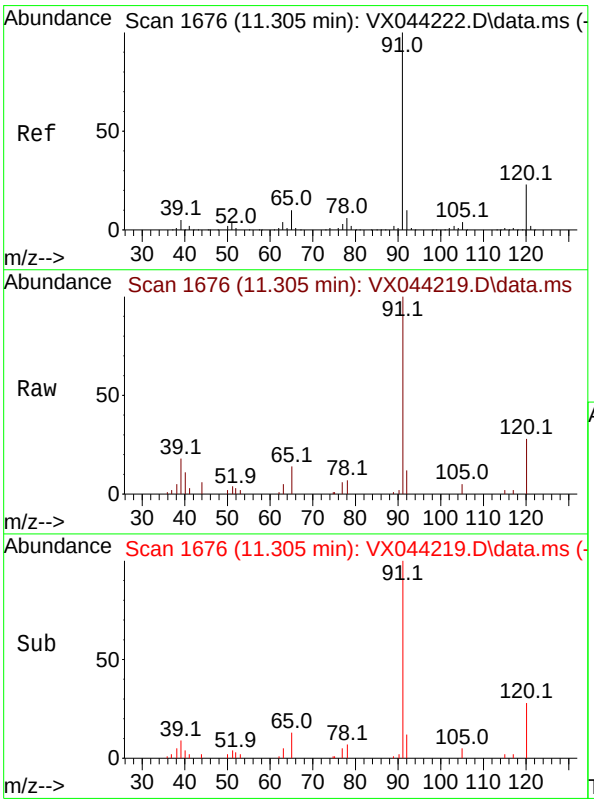
#77
Bromobenzene
Concen: 1.087 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 1783

Ion	Ratio	Lower	Upper
156	100		
77	155.1	82.6	247.8
158	85.2	48.8	146.4

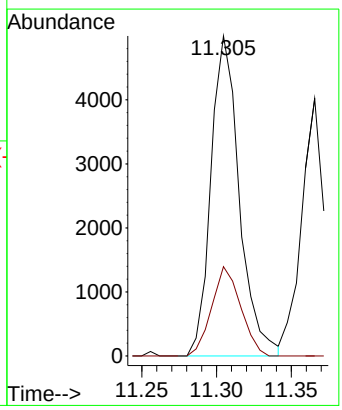


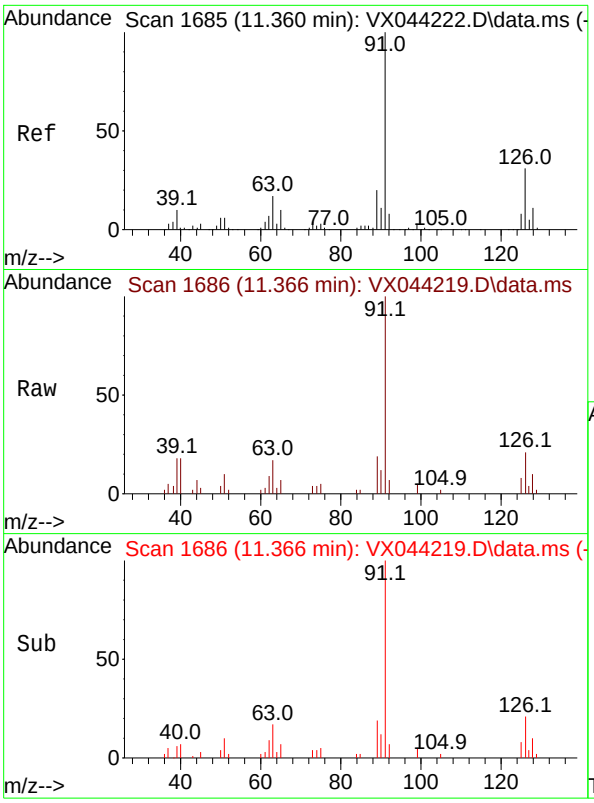


#78
n-propylbenzene
Concen: 0.884 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 6606

Ion	Ratio	Lower	Upper
91	100		
120	28.4	11.0	33.0



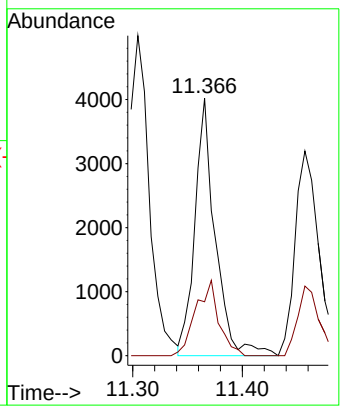


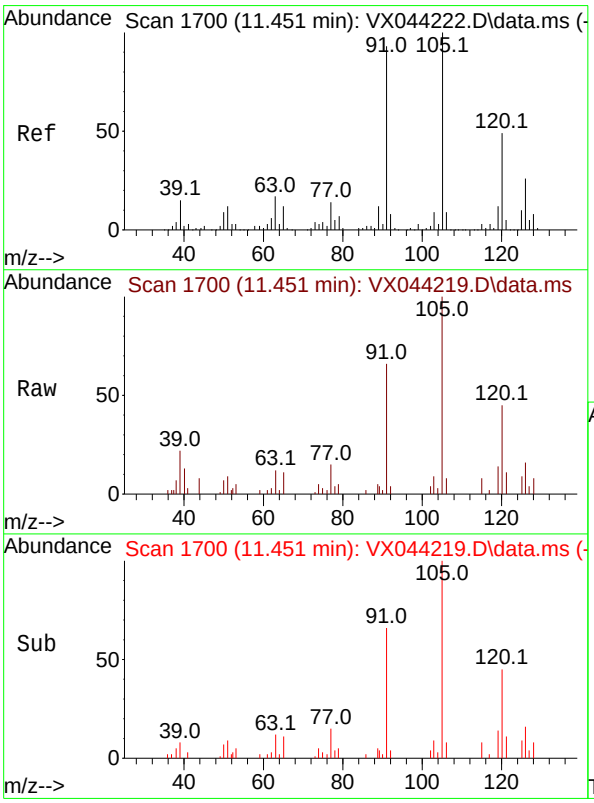
#79
2-Chlorotoluene
Concen: 1.075 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 5194

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.1

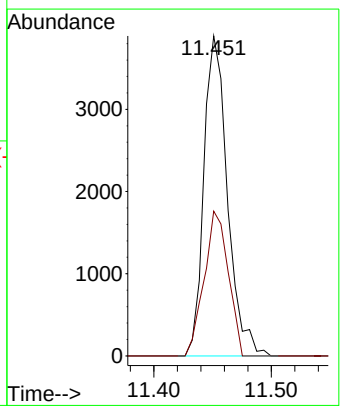


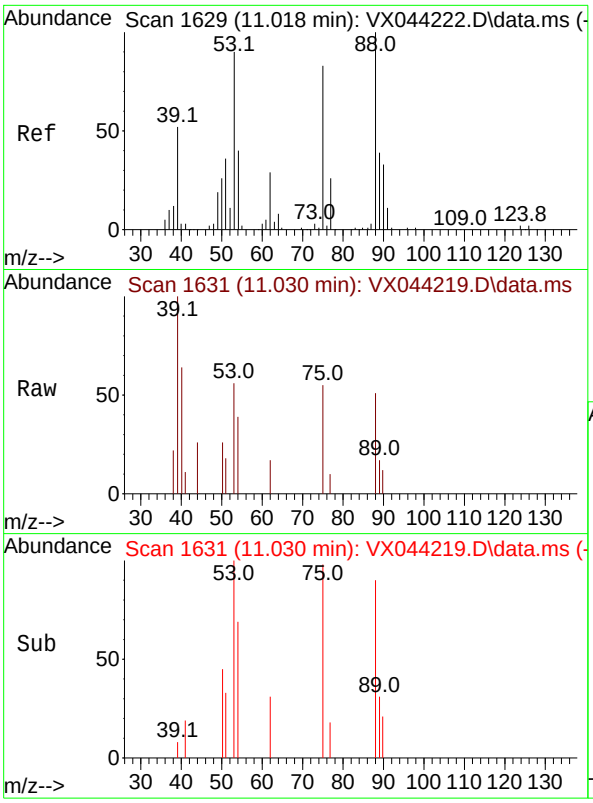


#80
1,3,5-Trimethylbenzene
Concen: 0.966 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 5417

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.4



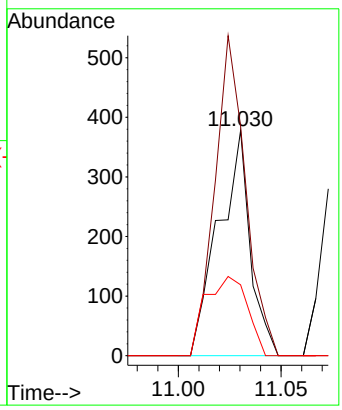


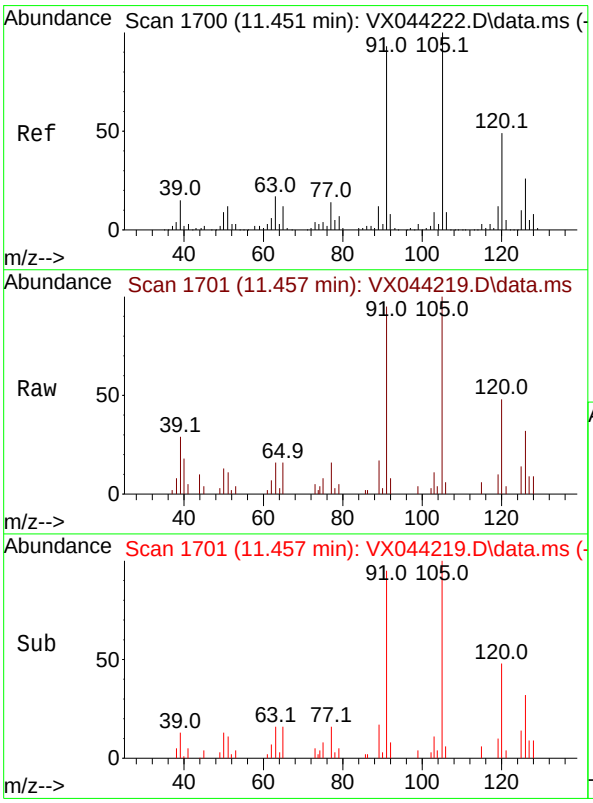
#81
trans-1,4-Dichloro-2-butene
Concen: 6.098 ug/l
RT: 11.030 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 402

Ion	Ratio	Lower	Upper
75	100		
53	139.1	93.6	140.4
89	46.8	37.3	55.9

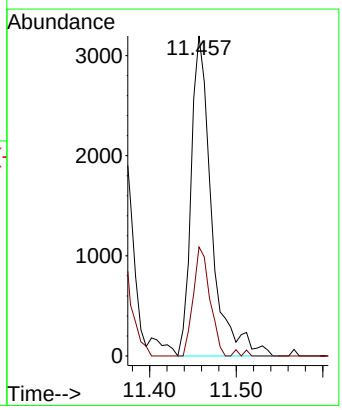


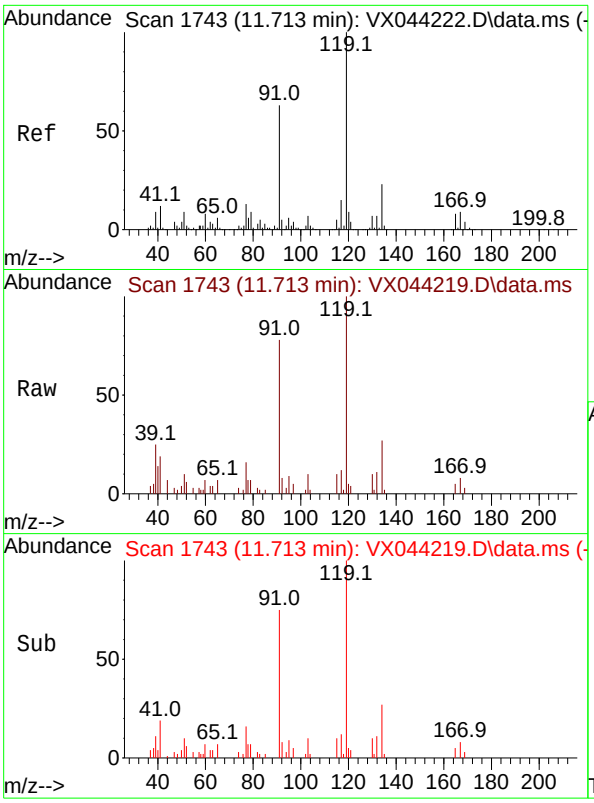


#82
4-Chlorotoluene
Concen: 0.978 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 91 Resp: 5236

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.5	43.5



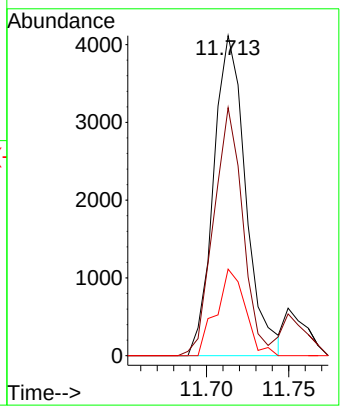


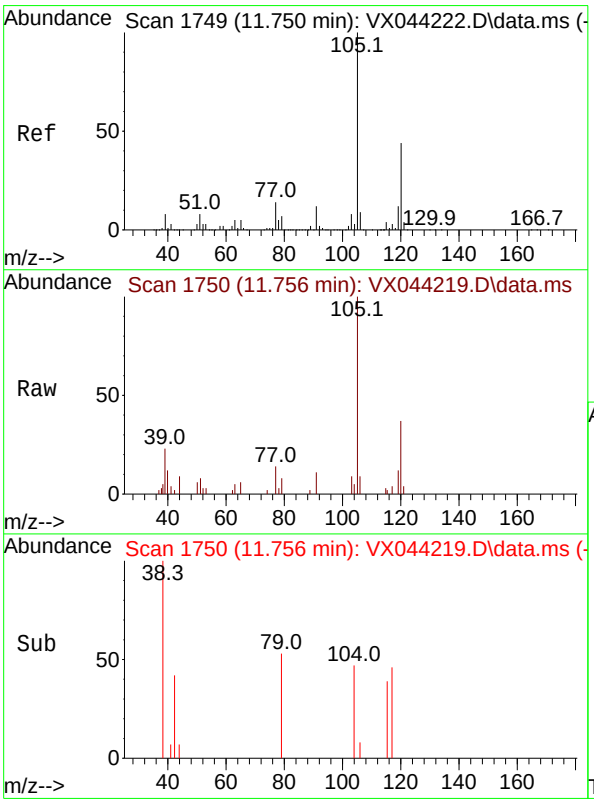
#83
tert-Butylbenzene
Concen: 1.011 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 5601

Ion	Ratio	Lower	Upper
119	100		
91	70.2	30.9	92.5
134	24.5	11.5	34.4

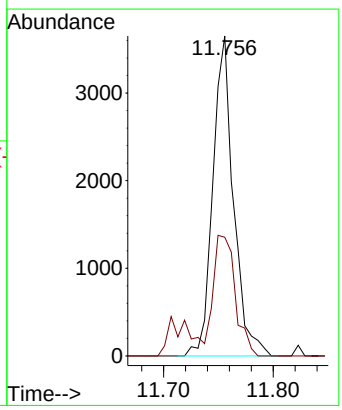


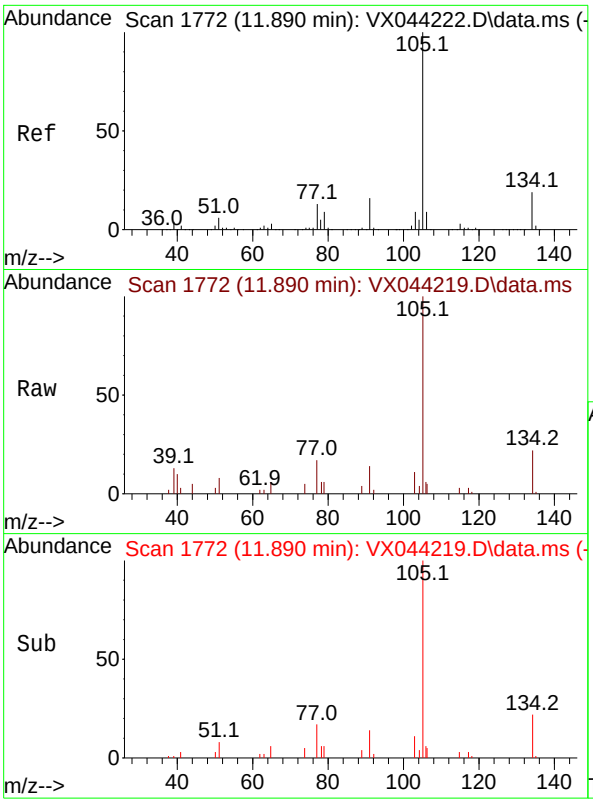


#84
1,2,4-Trimethylbenzene
Concen: 0.866 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:105 Resp: 4769

Ion	Ratio	Lower	Upper
105	100		
120	40.0	21.7	65.1



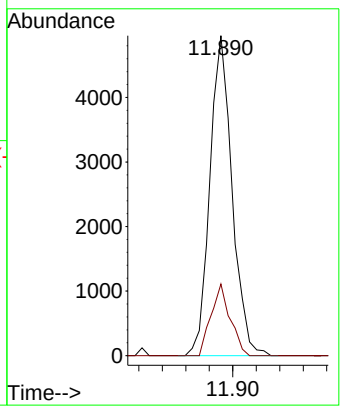


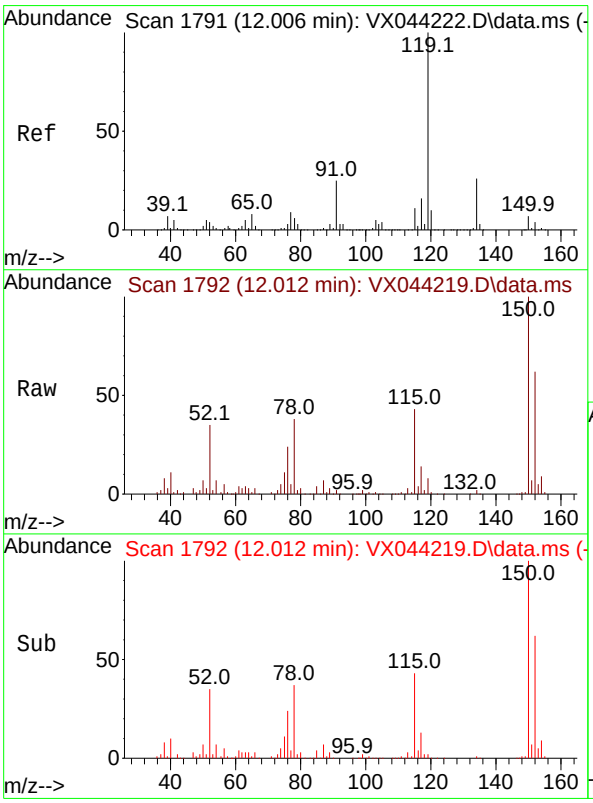
#85
sec-Butylbenzene
Concen: 0.966 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6500

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4

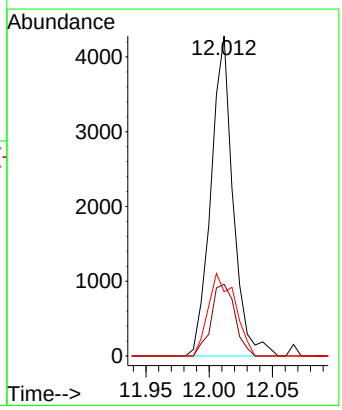


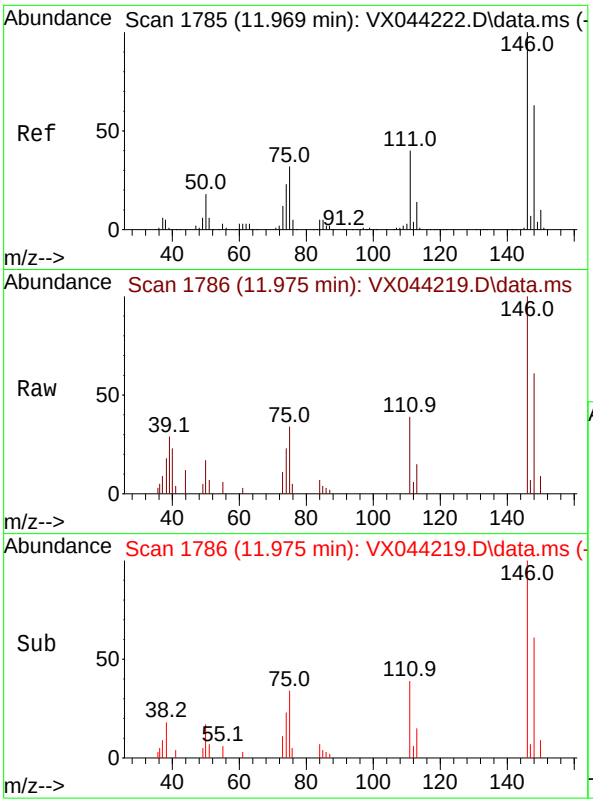


#86
p-Isopropyltoluene
Concen: 0.930 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:119 Resp: 5210

Ion	Ratio	Lower	Upper
119	100		
134	24.2	12.8	38.4
91	31.2	13.0	39.0



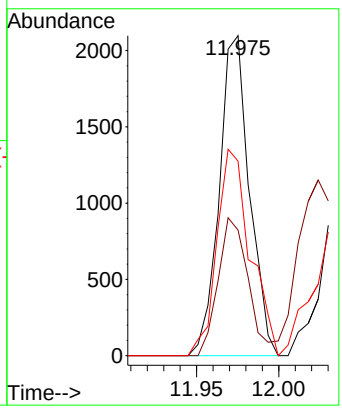


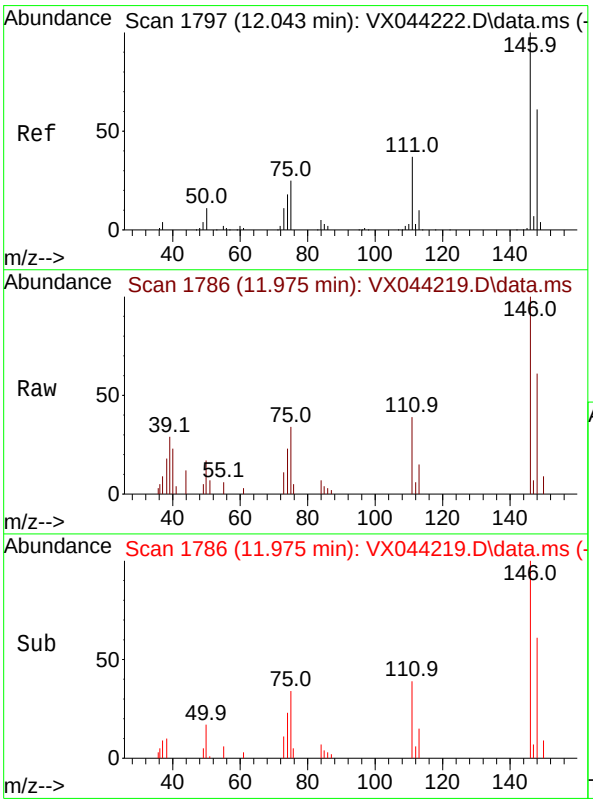
#87
1,3-Dichlorobenzene
Concen: 0.937 ug/l
RT: 11.975 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 2684

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	71.6	31.7	95.1

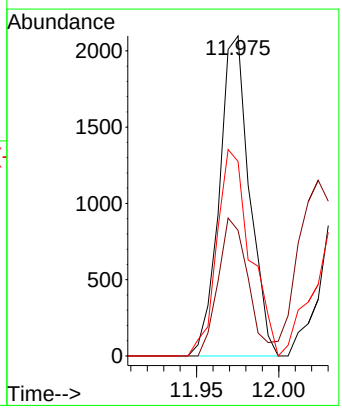


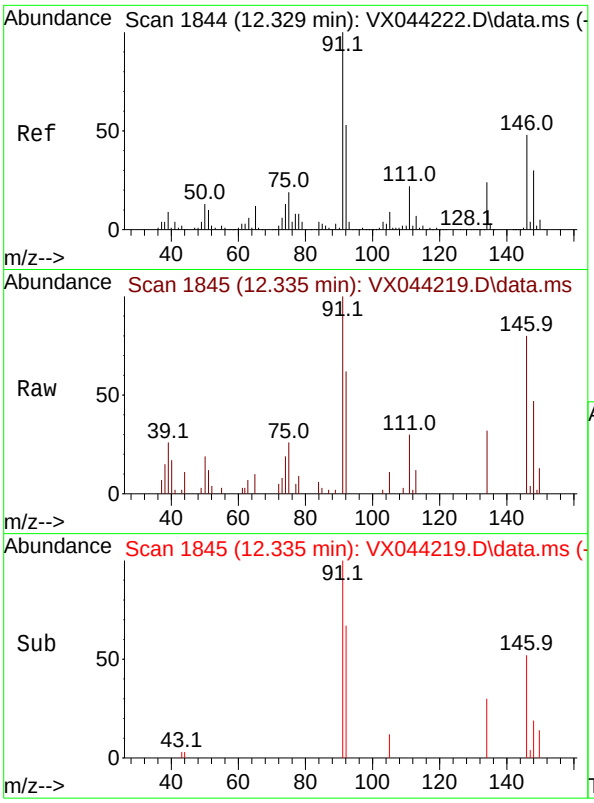


#88
1,4-Dichlorobenzene
Concen: 0.912 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. -0.067 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:146 Resp: 2684

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.0	63.0
148	71.6	32.3	96.8



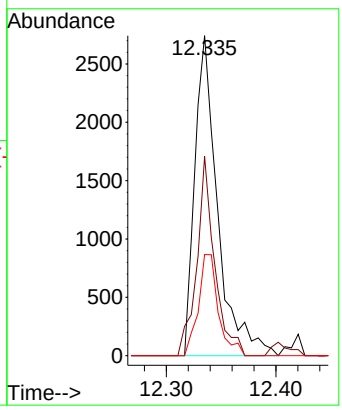


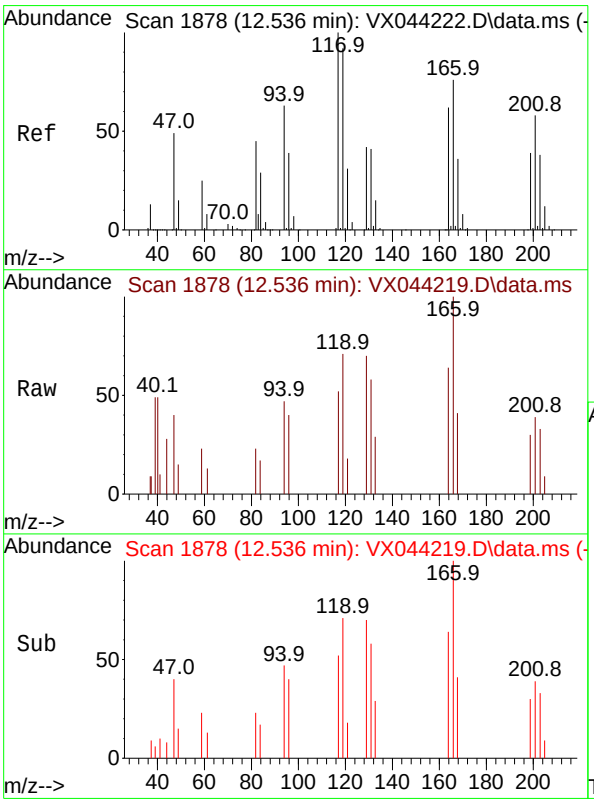
#89
n-Butylbenzene
Concen: 0.844 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 3973

Ion	Ratio	Lower	Upper
91	100		
92	48.5	26.6	79.7
134	27.8	12.6	37.8

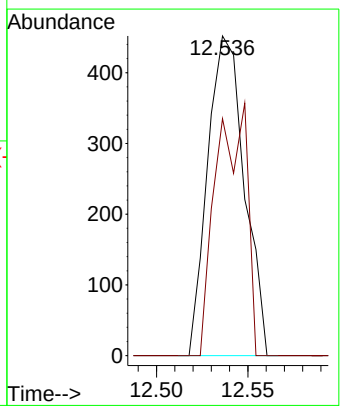


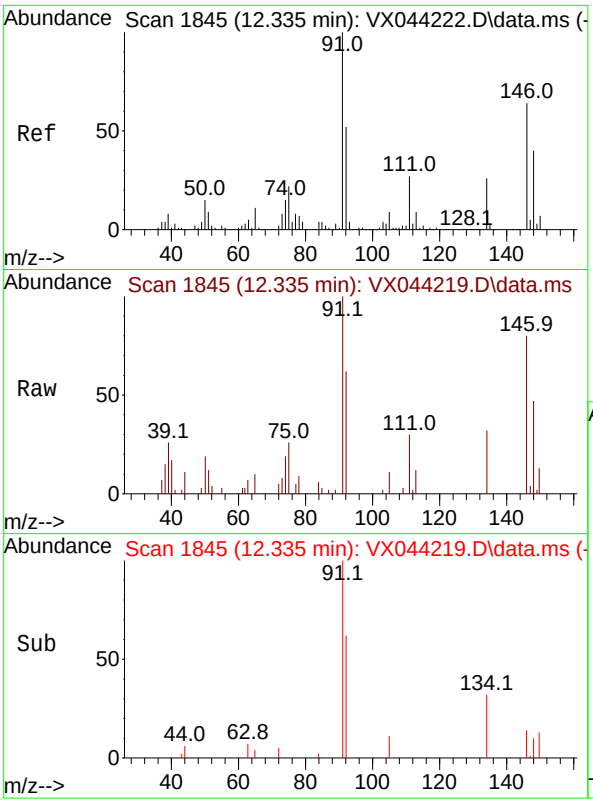


#90
Hexachloroethane
Concen: 0.773 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:117 Resp: 632

Ion	Ratio	Lower	Upper
117	100		
201	66.9	31.4	94.2



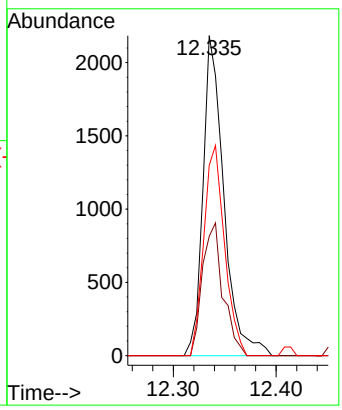


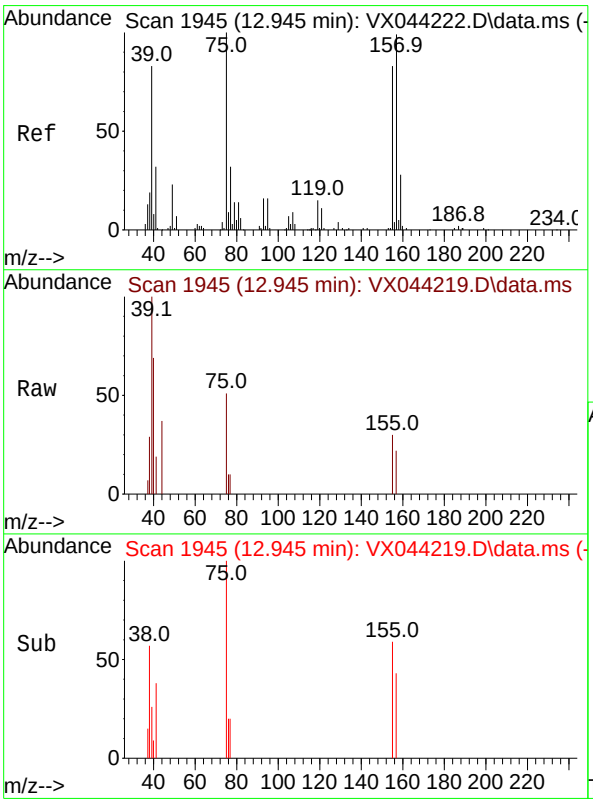
#91
1,2-Dichlorobenzene
Concen: 1.036 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 3082

Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.4	64.3
148	65.4	31.6	95.0

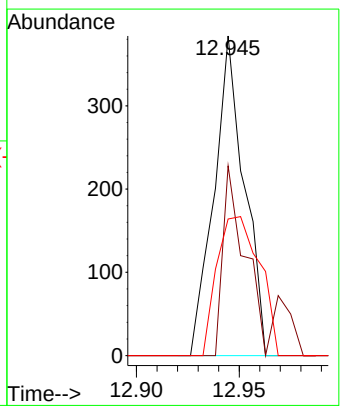


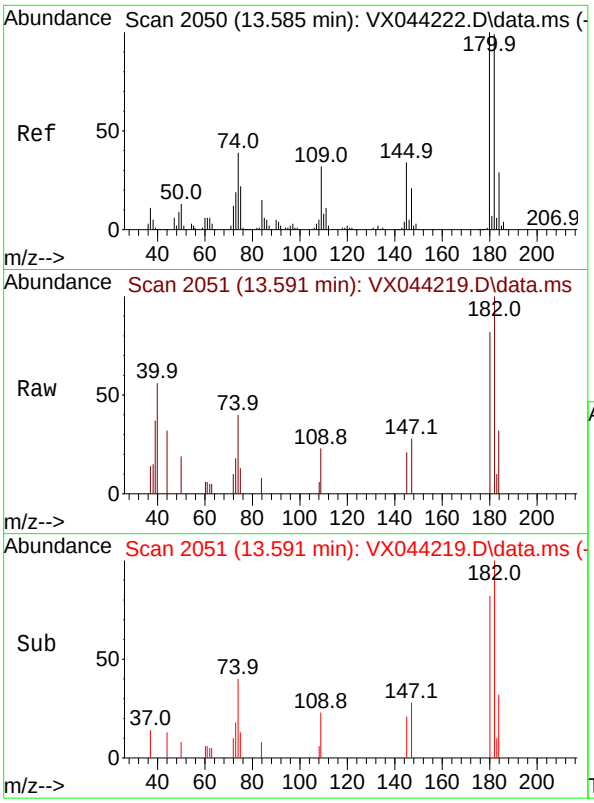


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.860 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion: 75 Resp: 392

Ion	Ratio	Lower	Upper
75	100		
155	54.6	38.1	114.3
157	61.5	47.2	141.6



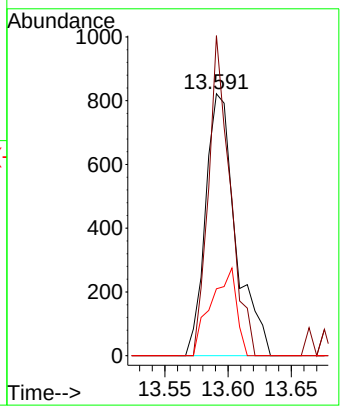


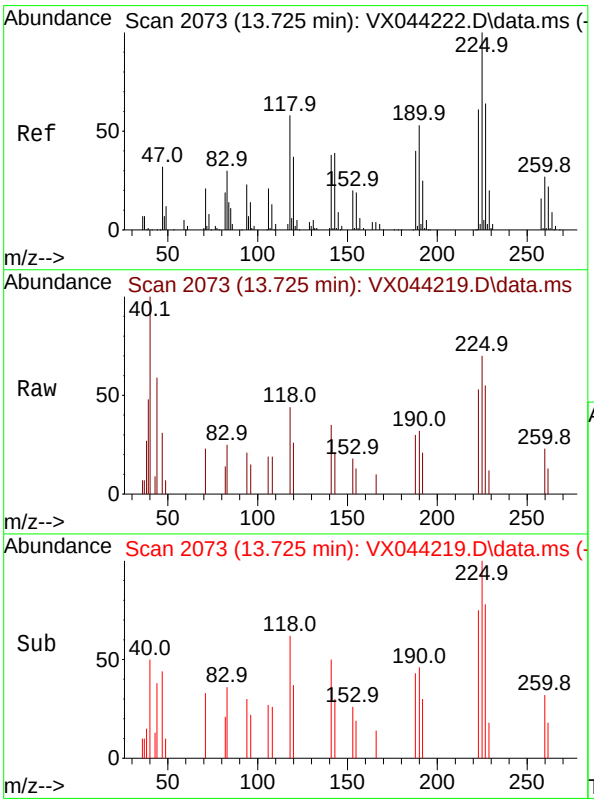
#93
1,2,4-Trichlorobenzene
Concen: 0.835 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 1361

Ion	Ratio	Lower	Upper
180	100		
182	88.0	48.0	144.2
145	28.4	16.6	49.7

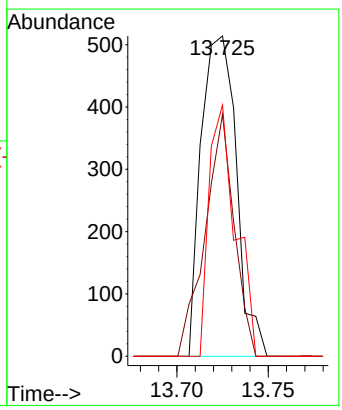


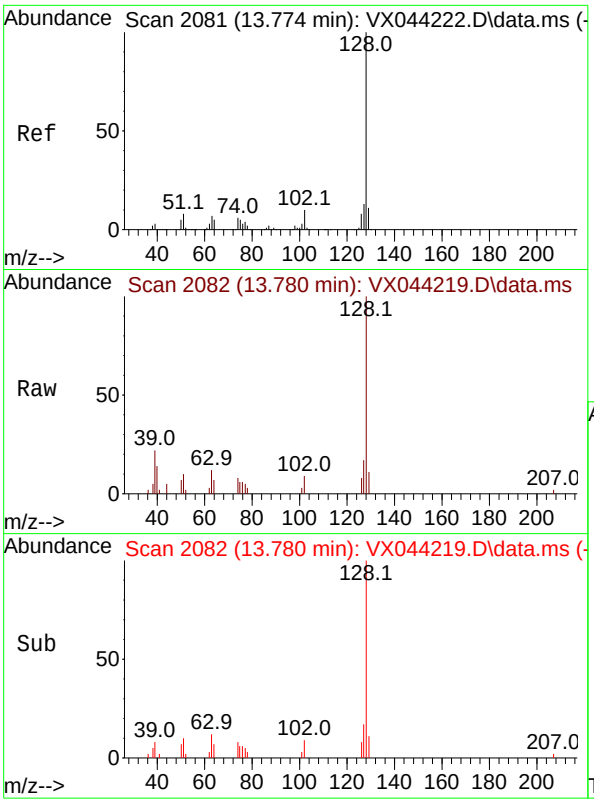


#94
Hexachlorobutadiene
Concen: 1.051 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:225 Resp: 689

Ion	Ratio	Lower	Upper
225	100		
223	62.4	30.8	92.4
227	59.4	32.1	96.3



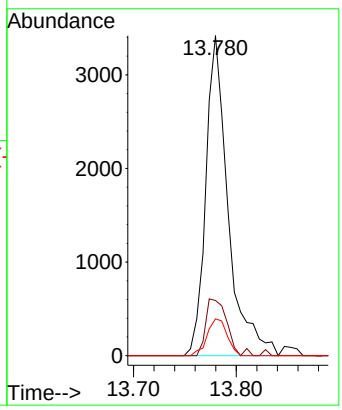


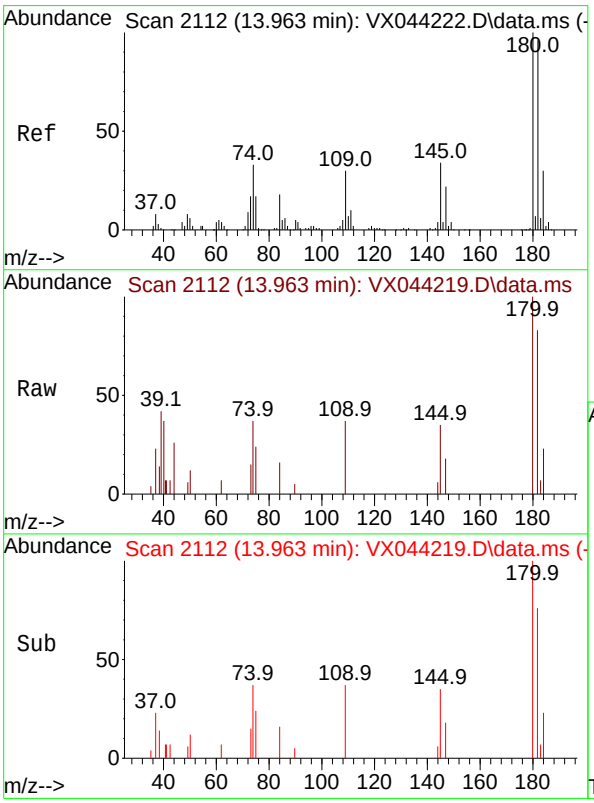
#95
Naphthalene
Concen: 0.812 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 5167

Ion	Ratio	Lower	Upper
128	100		
127	16.8	10.5	15.7#
129	10.2	9.0	13.4

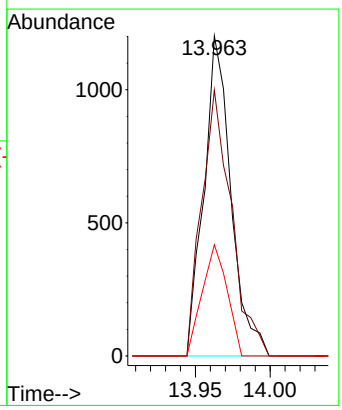




#96
1,2,3-Trichlorobenzene
Concen: 0.873 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044219.D
Acq: 11 Dec 2024 10:41

Tgt Ion:180 Resp: 1509

Ion	Ratio	Lower	Upper
180	100		
182	91.3	48.0	144.0
145	31.9	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	139609	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	258881	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	13043	5.328	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 10.660%#			
35) Dibromofluoromethane	5.385	113	9145	5.100	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.200%#			
50) Toluene-d8	8.647	98	29732	4.915	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 9.840%#			
62) 4-Bromofluorobenzene	11.079	95	10101	4.779	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.560%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	10452	4.842	ug/l	91
3) Chloromethane	1.294	50	10429	5.052	ug/l	95
4) Vinyl Chloride	1.374	62	11031	5.129	ug/l	98
5) Bromomethane	1.593	94	8237	5.399	ug/l	92
6) Chloroethane	1.660	64	7253	5.416	ug/l	96
7) Trichlorofluoromethane	1.868	101	21207	5.037	ug/l	91
8) Diethyl Ether	2.136	74	7199	5.009	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	8766	5.145	ug/l	97
10) Methyl Iodide	2.447	142	11066	4.928	ug/l	97
11) Tert butyl alcohol	2.995	59	6094	17.693	ug/l	99
12) 1,1-Dichloroethene	2.306	96	7822	4.999	ug/l	95
13) Acrolein	2.239	56	12521	25.073	ug/l	100
14) Allyl chloride	2.654	41	12490	4.792	ug/l	94
15) Acrylonitrile	3.069	53	23276	24.357	ug/l	99
16) Acetone	2.392	43	24645	24.696	ug/l	93
17) Carbon Disulfide	2.495	76	12169	4.091	ug/l	99
18) Methyl Acetate	2.709	43	12412	4.824	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	30546	5.002	ug/l	94
20) Methylene Chloride	2.782	84	9466	5.050	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	7768	4.671	ug/l	97
22) Diisopropyl ether	3.764	45	29518	5.029	ug/l #	73
23) Vinyl Acetate	3.721	43	109670	22.983	ug/l	96
24) 1,1-Dichloroethane	3.605	63	16370	5.004	ug/l	96
25) 2-Butanone	4.574	43	34245	24.138	ug/l	97
26) 2,2-Dichloropropane	4.471	77	12514	4.708	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	10292	4.873	ug/l	97
28) Bromochloromethane	4.897	49	8049	5.017	ug/l #	93
29) Tetrahydrofuran	5.019	42	24307	26.693	ug/l	94
30) Chloroform	5.093	83	18319	4.984	ug/l	93
31) Cyclohexane	5.464	56	12995	4.919	ug/l	89
32) 1,1,1-Trichloroethane	5.373	97	14231	4.664	ug/l	96
36) 1,1-Dichloropropene	5.690	75	11455	4.942	ug/l	94
37) Ethyl Acetate	4.727	43	13265	4.630	ug/l	97
38) Carbon Tetrachloride	5.666	117	11476	4.599	ug/l	96
39) Methylcyclohexane	7.373	83	13019	4.699	ug/l #	85
40) Benzene	6.037	78	35018	4.976	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.946	41	7585	4.986 ug/l	93
42) 1,2-Dichloroethane	6.092	62	14419	4.974 ug/l	99
43) Isopropyl Acetate	6.354	43	22098	4.935 ug/l	98
44) Trichloroethene	7.123	130	8405	4.790 ug/l	100
45) 1,2-Dichloropropane	7.434	63	8932	4.968 ug/l	94
46) Dibromomethane	7.586	93	6915	4.958 ug/l	99
47) Bromodichloromethane	7.824	83	10646	4.420 ug/l #	98
48) Methyl methacrylate	7.702	41	9586	4.410 ug/l	97
49) 1,4-Dioxane	7.671	88	2783	74.917 ug/l #	84
51) 4-Methyl-2-Pentanone	8.574	43	71285	24.759 ug/l	98
52) Toluene	8.720	92	21486	4.862 ug/l	99
53) t-1,3-Dichloropropene	8.982	75	9232	4.665 ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	11404	4.348 ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	8590	4.893 ug/l	97
56) Ethyl methacrylate	9.122	69	11854	4.277 ug/l #	89
57) 1,3-Dichloropropane	9.311	76	15352	5.024 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	34738	24.852 ug/l	99
59) 2-Hexanone	9.433	43	50003	23.994 ug/l	96
60) Dibromochloromethane	9.519	129	6411	4.738 ug/l	98
61) 1,2-Dibromoethane	9.610	107	8330	4.662 ug/l	97
64) Tetrachloroethene	9.275	164	7710	5.334 ug/l #	87
65) Chlorobenzene	10.079	112	23268	4.986 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	6647	4.432 ug/l	94
67) Ethyl Benzene	10.195	91	39326	4.877 ug/l	97
68) m/p-Xylenes	10.299	106	28758	9.720 ug/l	98
69) o-Xylene	10.640	106	14864	4.965 ug/l	97
70) Styrene	10.659	104	22191	4.624 ug/l	98
71) Bromoform	10.799	173	3775	5.118 ug/l #	98
73) Isopropylbenzene	10.963	105	37843	5.194 ug/l	98
74) N-amyl acetate	10.842	43	15418	4.579 ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	12848	5.077 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	12901	5.974 ug/l	91
77) Bromobenzene	11.201	156	8892	5.033 ug/l	99
78) n-propylbenzene	11.305	91	40574	5.038 ug/l	96
79) 2-Chlorotoluene	11.366	91	27096	5.203 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	30665	5.075 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.024	75	2249	8.273 ug/l #	62
82) 4-Chlorotoluene	11.457	91	29039	5.035 ug/l	99
83) tert-Butylbenzene	11.713	119	29283	4.904 ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	30970	5.219 ug/l	99
85) sec-Butylbenzene	11.890	105	35670	4.921 ug/l	98
86) p-Isopropyltoluene	12.006	119	29132	4.828 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	15553	5.039 ug/l	96
88) 1,4-Dichlorobenzene	12.043	146	15609	4.920 ug/l	95
89) n-Butylbenzene	12.335	91	22719	4.478 ug/l	98
90) Hexachloroethane	12.536	117	3765	4.275 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	15858	4.949 ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2154	4.385 ug/l	81
93) 1,2,4-Trichlorobenzene	13.591	180	7867	4.478 ug/l	96
94) Hexachlorobutadiene	13.725	225	3321	4.700 ug/l	93
95) Naphthalene	13.780	128	31842	4.643 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	8422	4.520 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

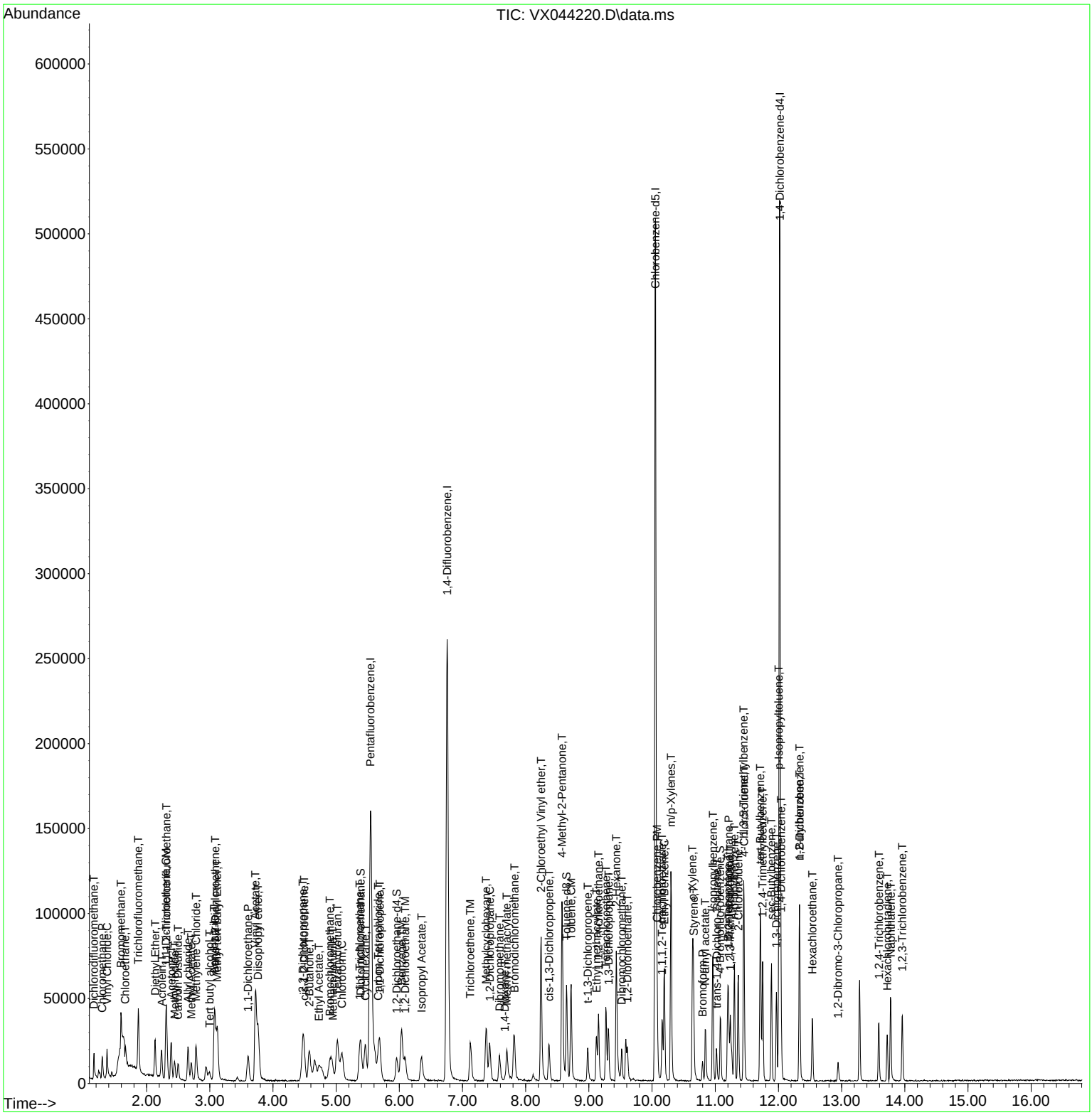
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

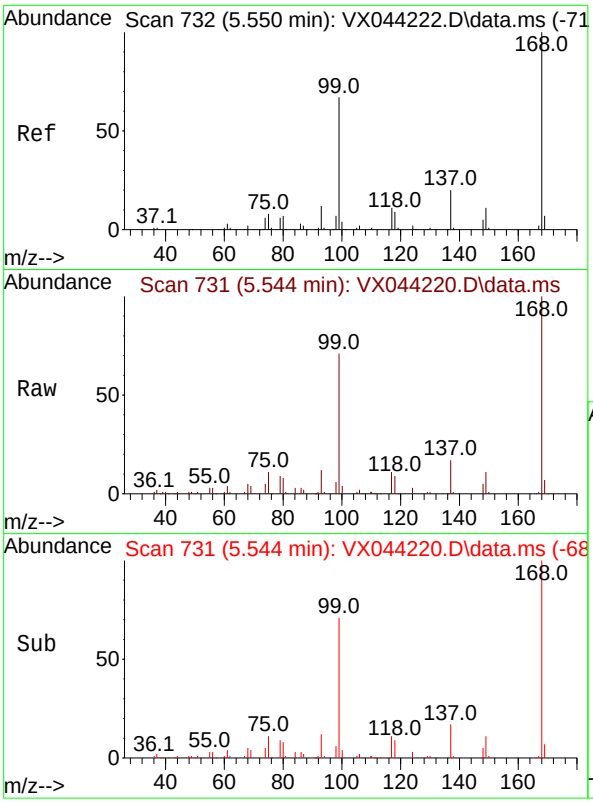
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044220.D
Acq On : 11 Dec 2024 11:27
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Dec 12 04:13:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



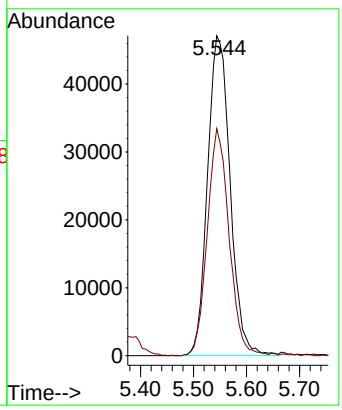


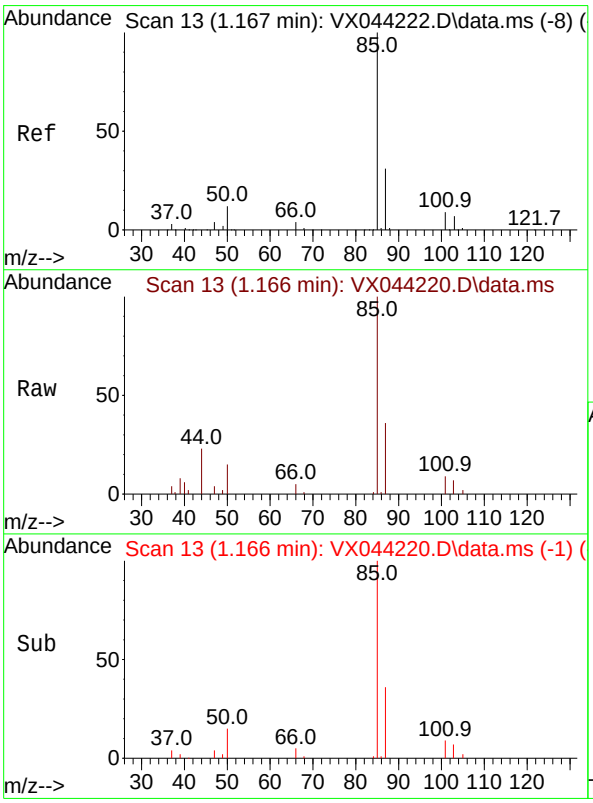
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 139609

Ion	Ratio	Lower	Upper
168	100		
99	71.0	53.4	80.0

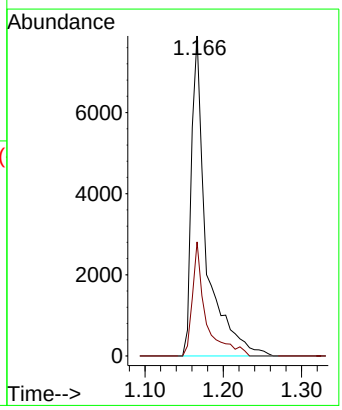


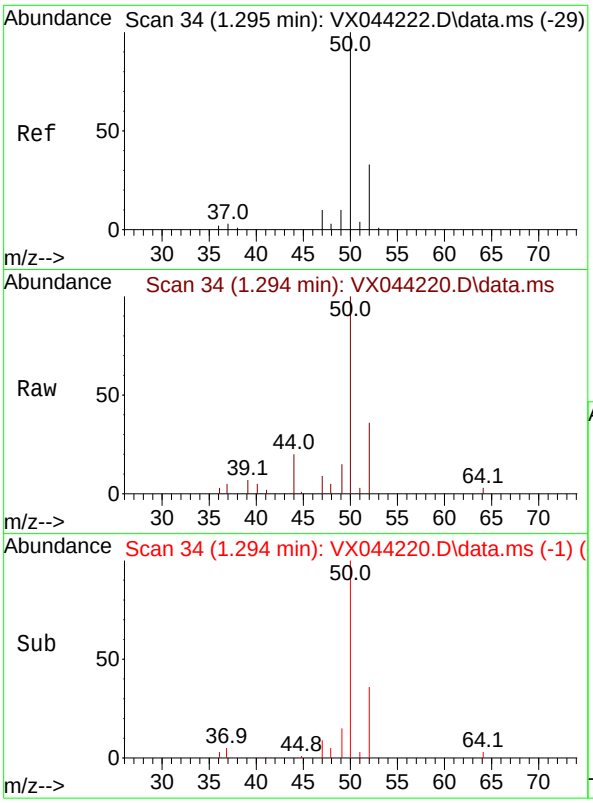


#2
Dichlorodifluoromethane
Concen: 4.842 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 85 Resp: 10452

Ion	Ratio	Lower	Upper
85	100		
87	35.6	15.4	46.4



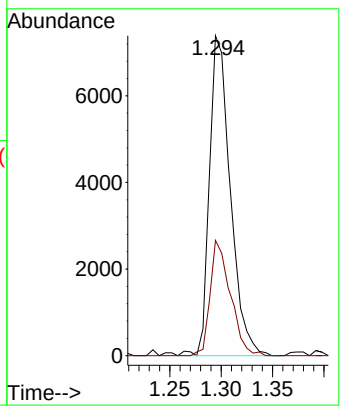


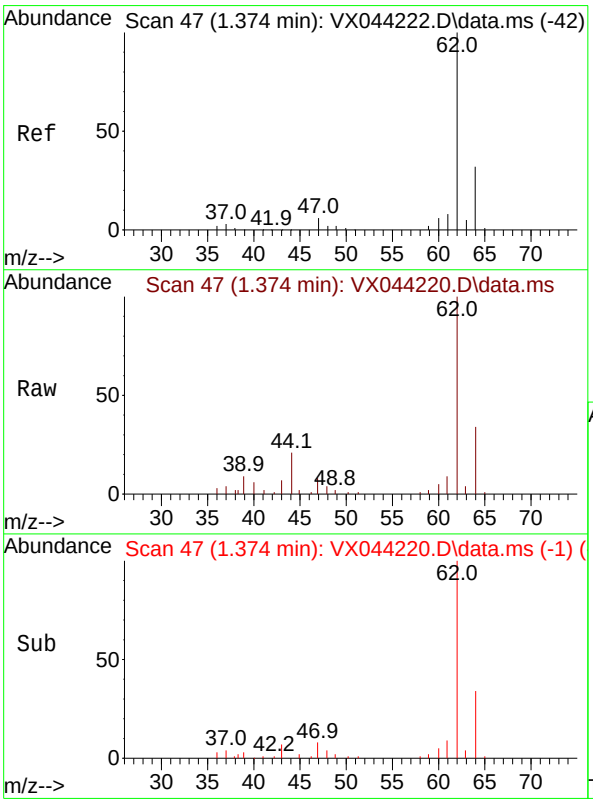
#3
Chloromethane
Concen: 5.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 10429

Ion	Ratio	Lower	Upper
50	100		
52	36.0	26.5	39.7

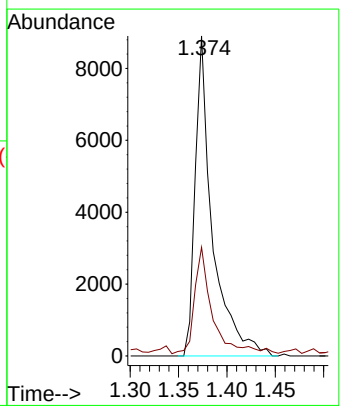


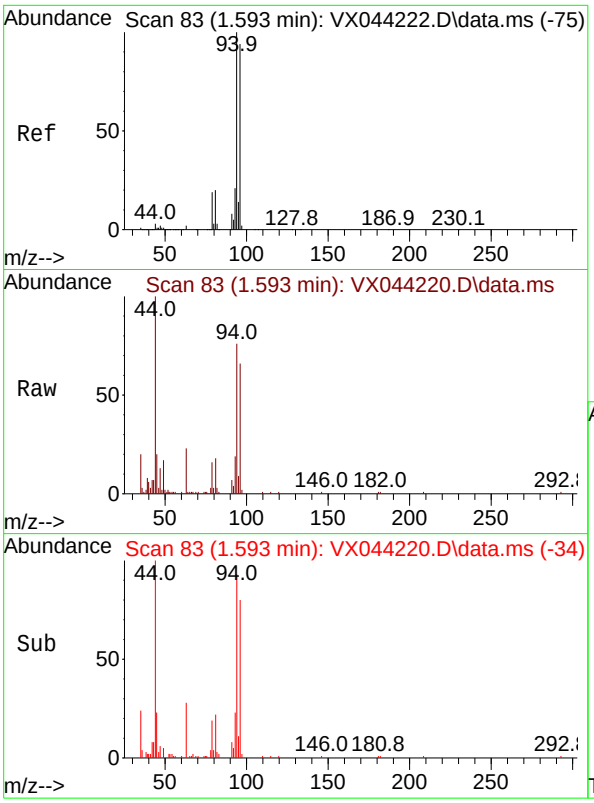


#4
Vinyl Chloride
Concen: 5.129 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 11031

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.7	38.5



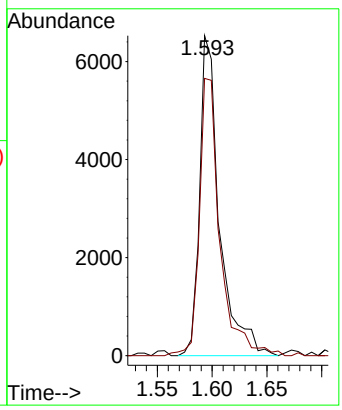


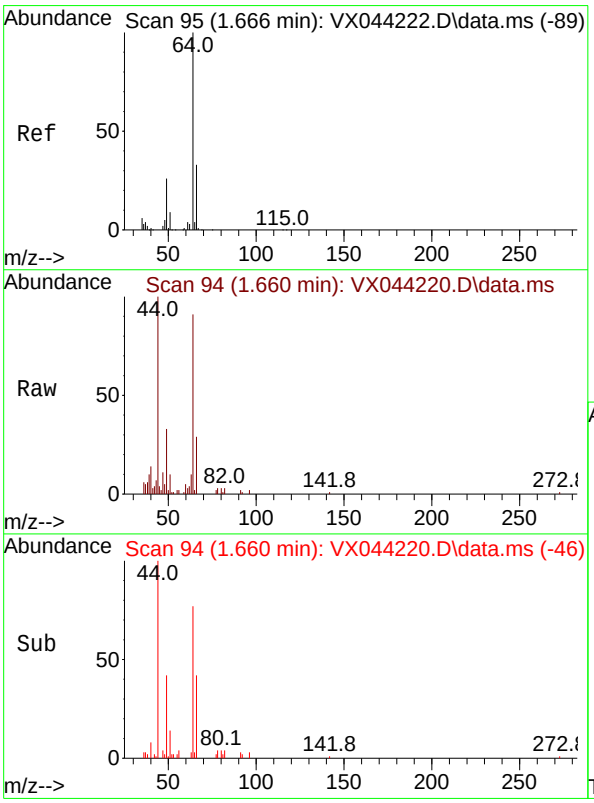
#5
Bromomethane
Concen: 5.399 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 8237

Ion	Ratio	Lower	Upper
94	100		
96	85.5	74.9	112.3

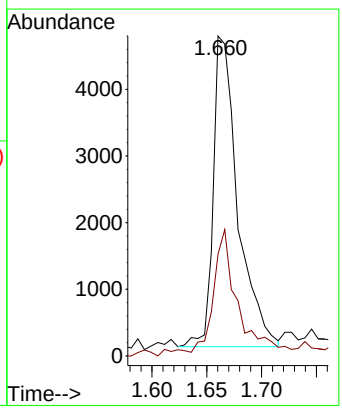


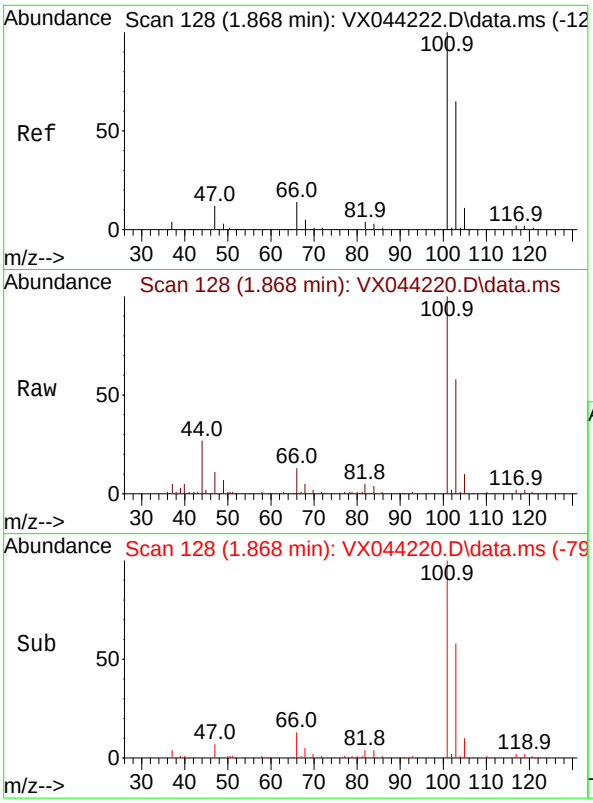


#6
Chloroethane
Concen: 5.416 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 64 Resp: 7253

Ion	Ratio	Lower	Upper
64	100		
66	30.7	26.6	39.8



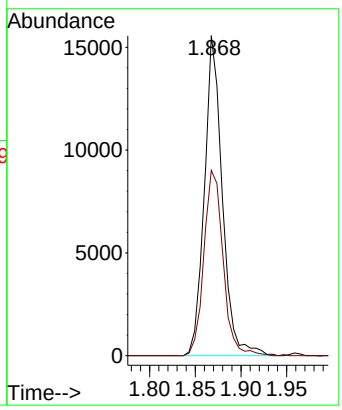


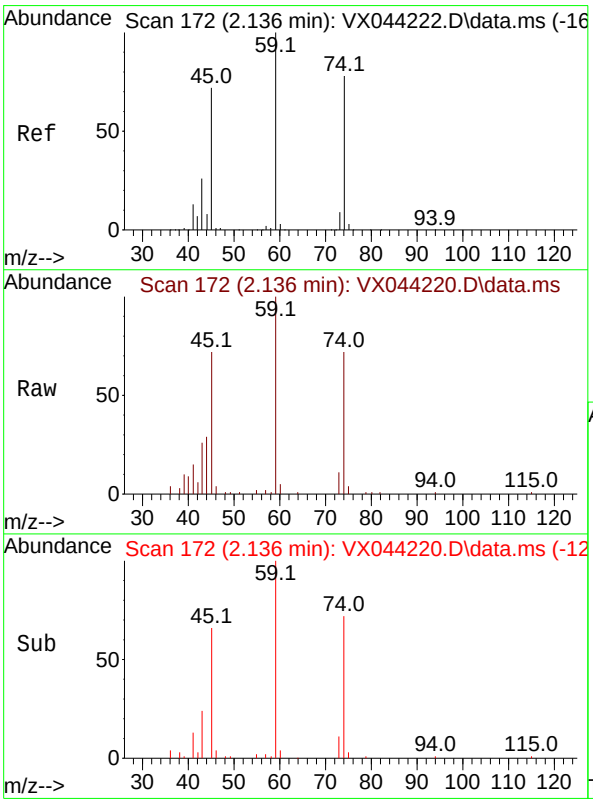
#7
Trichlorofluoromethane
Concen: 5.037 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 21207

Ion	Ratio	Lower	Upper
101	100		
103	57.9	51.8	77.8

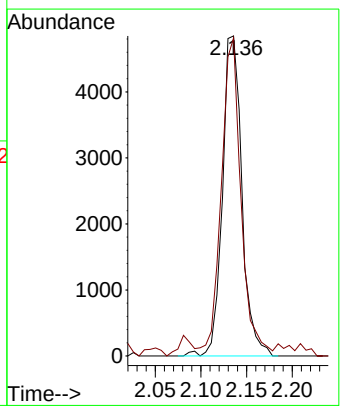


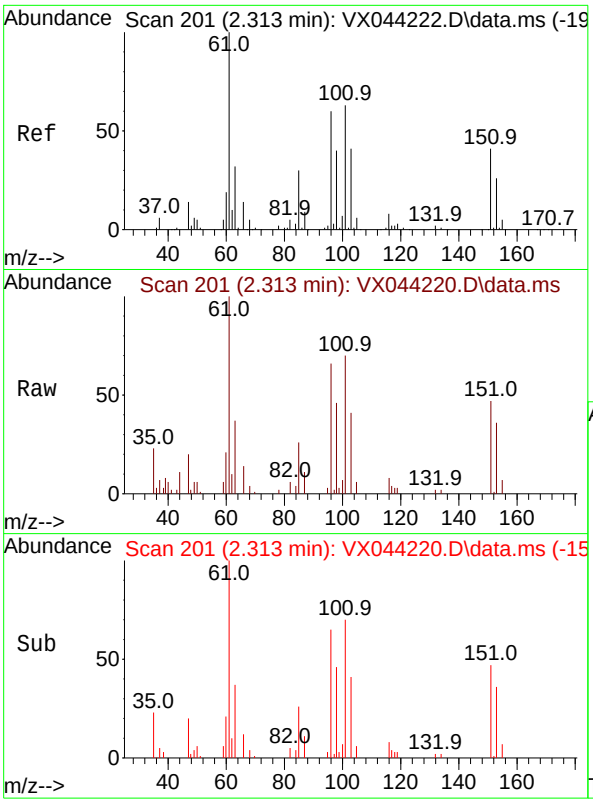


#8
Diethyl Ether
Concen: 5.009 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 74 Resp: 7199

Ion	Ratio	Lower	Upper
74	100		
45	97.0	48.4	145.0



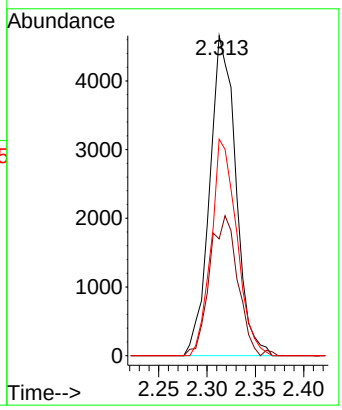


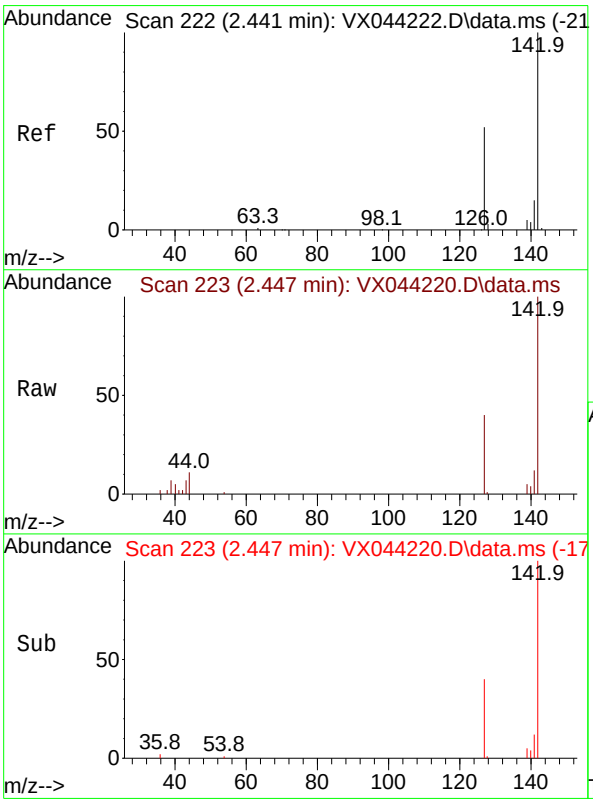
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.145 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 8766

Ion	Ratio	Lower	Upper
101	100		
85	46.7	38.5	57.7
151	66.2	55.8	83.6

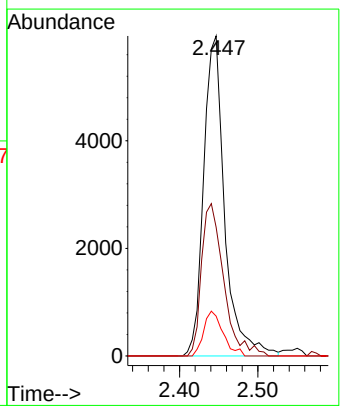


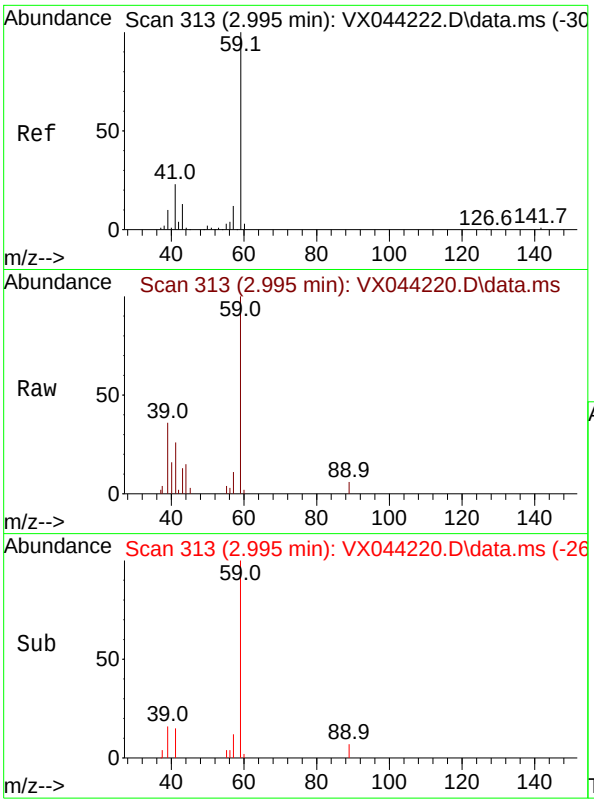


#10
Methyl Iodide
Concen: 4.928 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:142 Resp: 11066

Ion	Ratio	Lower	Upper
142	100		
127	50.4	41.8	62.8
141	12.9	11.5	17.3



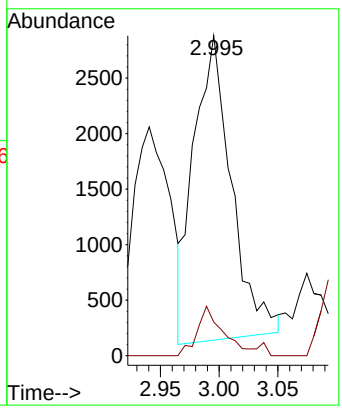


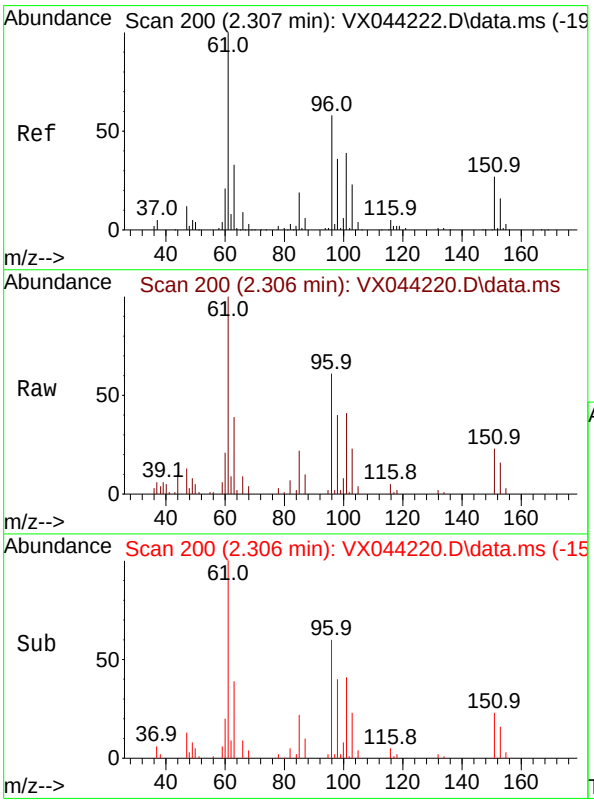
#11
Tert butyl alcohol
Concen: 17.693 ug/l
RT: 2.995 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 6094

Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.8	13.2

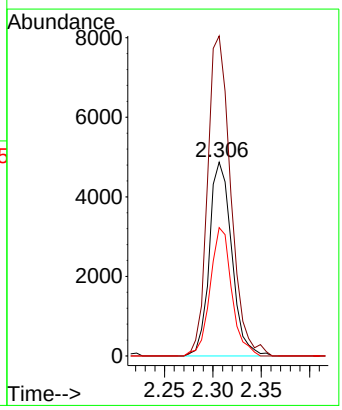


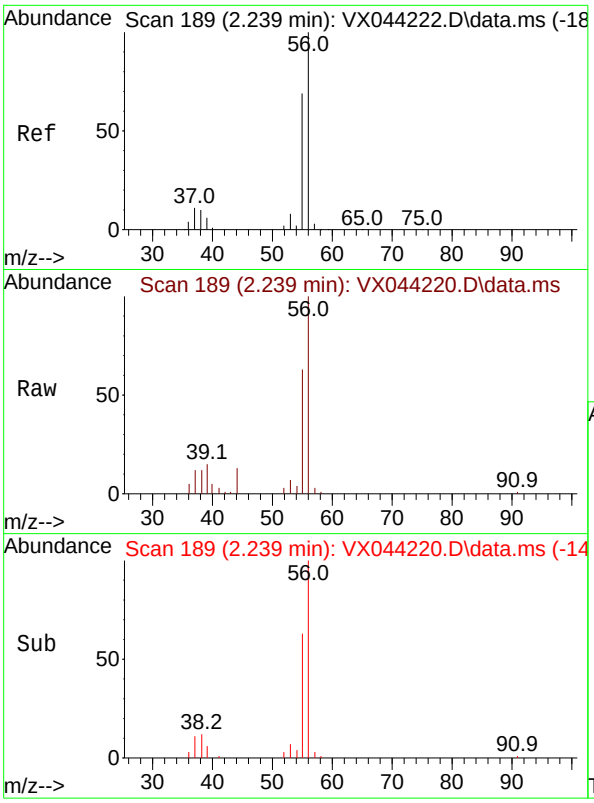


#12
1,1-Dichloroethene
Concen: 4.999 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 96 Resp: 7822

Ion	Ratio	Lower	Upper
96	100		
61	165.2	138.0	207.0
98	66.2	50.0	75.0



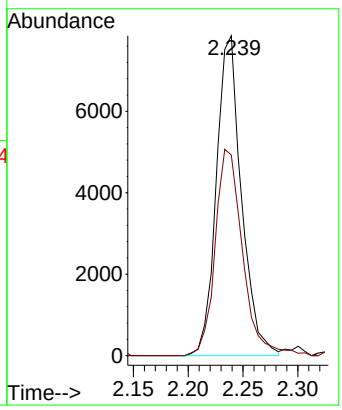


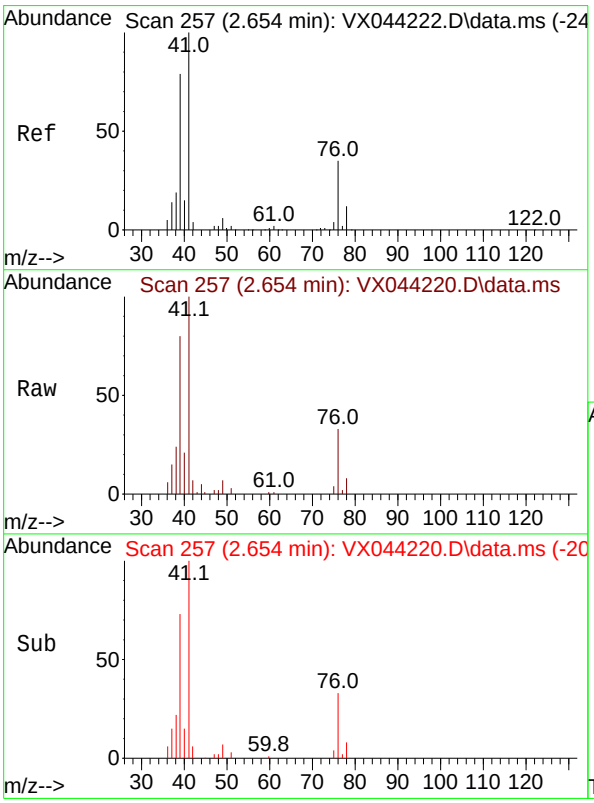
#13
Acrolein
Concen: 25.073 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 12521

Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.6	84.8

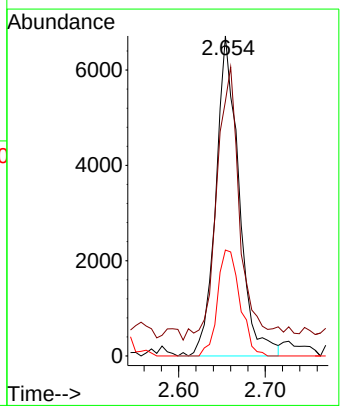


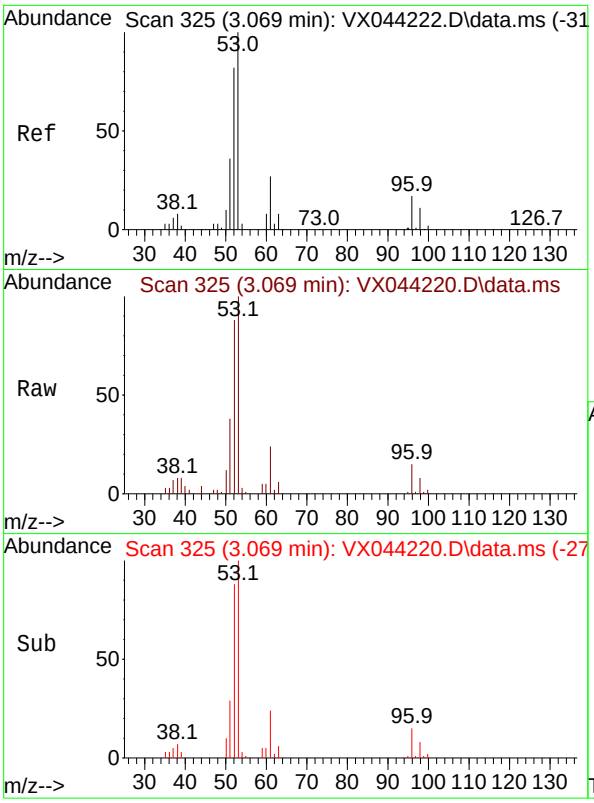


#14
Allyl chloride
Concen: 4.792 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 12490

Ion	Ratio	Lower	Upper
41	100		
39	84.0	61.9	92.9
76	32.1	27.4	41.2



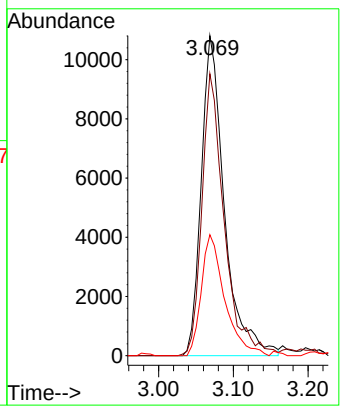


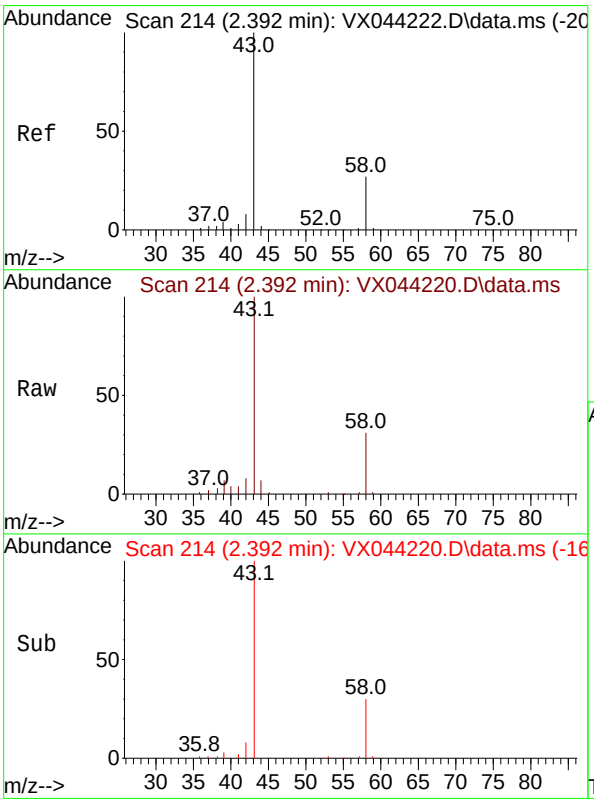
#15
Acrylonitrile
Concen: 24.357 ug/l
RT: 3.069 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 23276

Ion	Ratio	Lower	Upper
53	100		
52	85.0	67.4	101.0
51	38.2	30.3	45.5

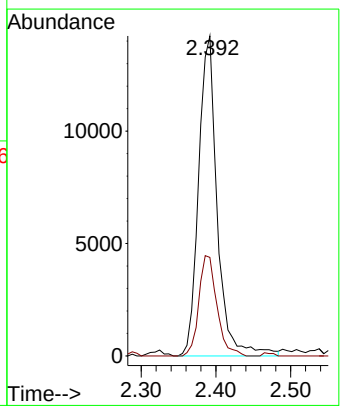


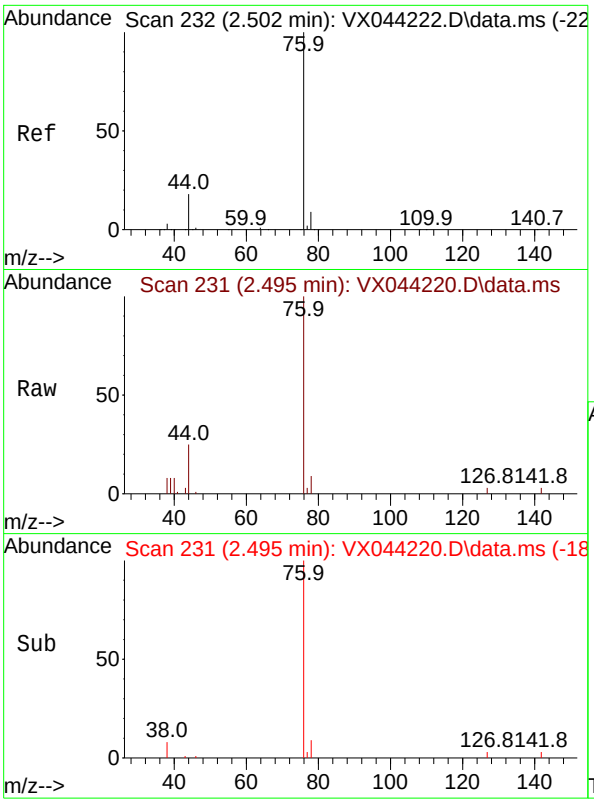


#16
Acetone
Concen: 24.696 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 24645

Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.6	32.4



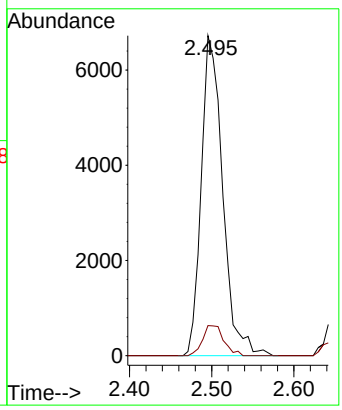


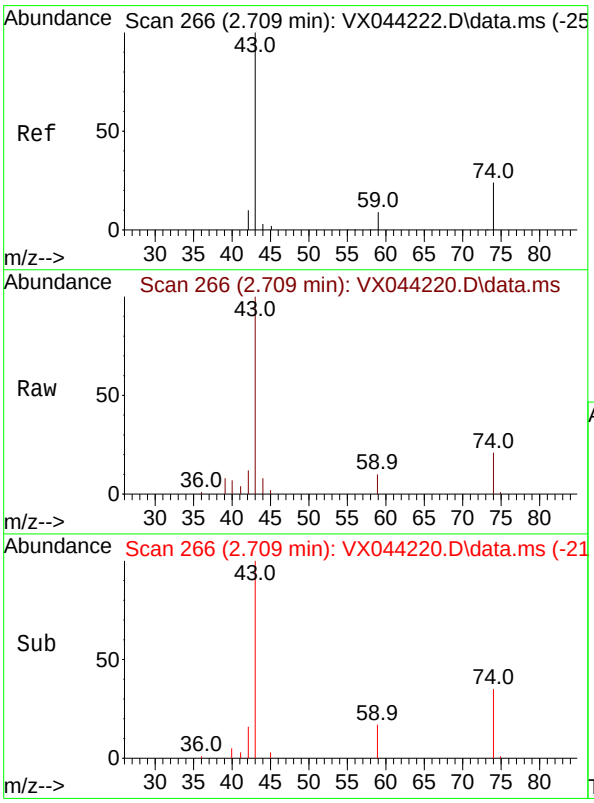
#17
Carbon Disulfide
Concen: 4.091 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 12169

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

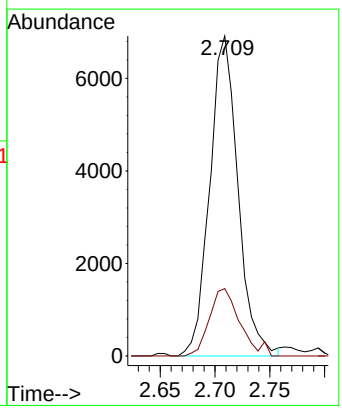


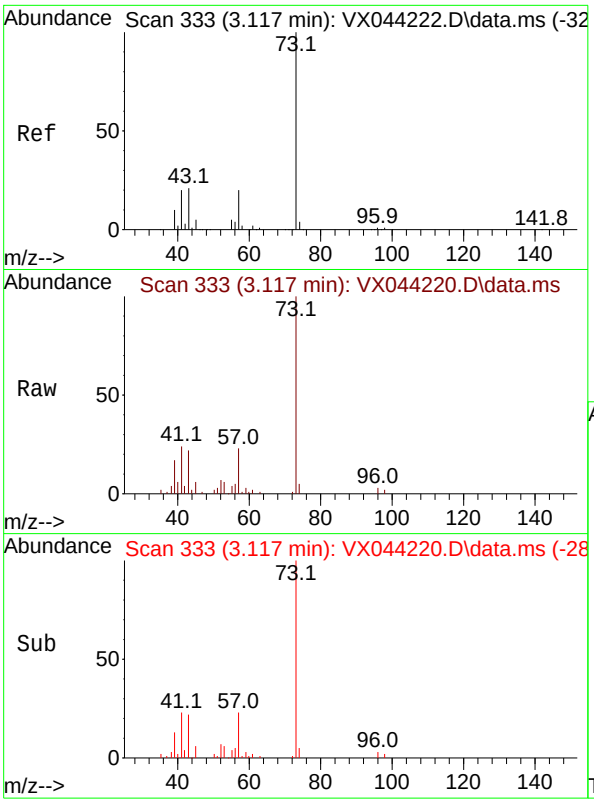


#18
Methyl Acetate
Concen: 4.824 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 12412

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.7	26.5



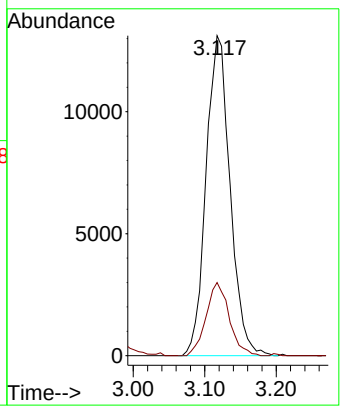


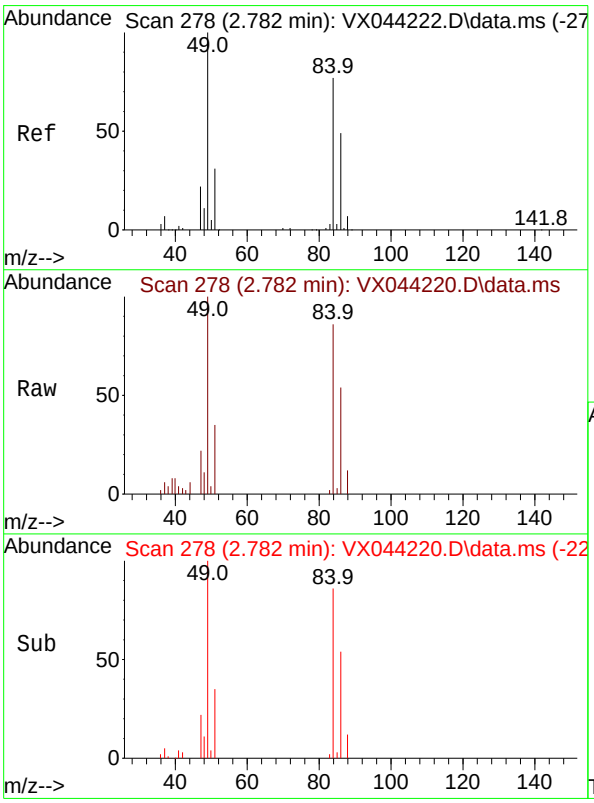
#19
Methyl tert-butyl Ether
Concen: 5.002 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 30546

Ion	Ratio	Lower	Upper
73	100		
57	22.9	16.2	24.4

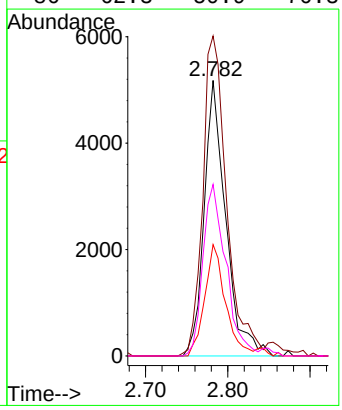


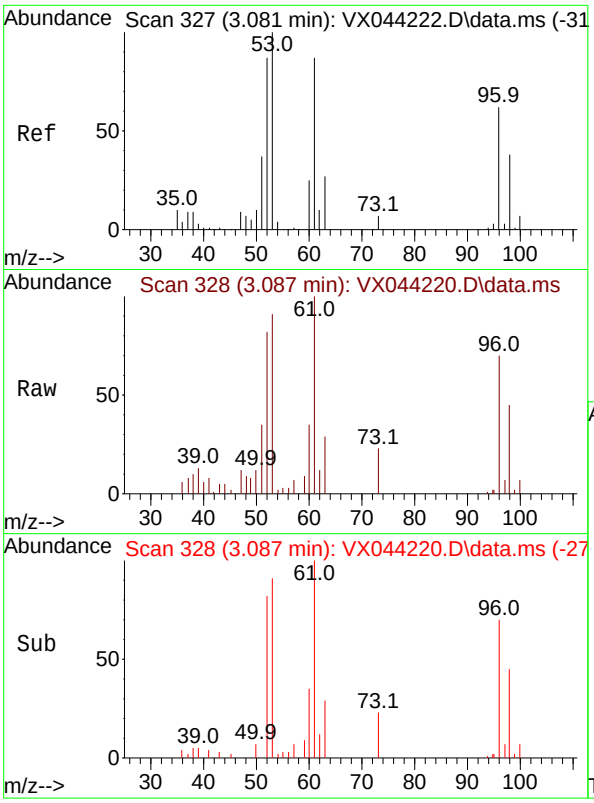


#20
Methylene Chloride
Concen: 5.050 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 84 Resp: 9466

Ion	Ratio	Lower	Upper
84	100		
49	116.2	104.2	156.4
51	40.4	32.2	48.4
86	62.3	50.9	76.3



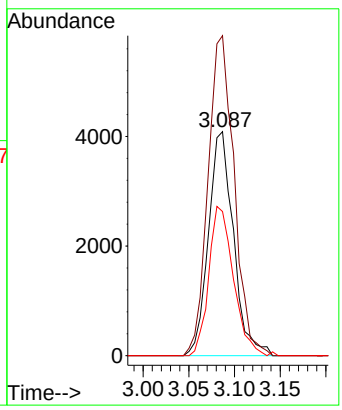


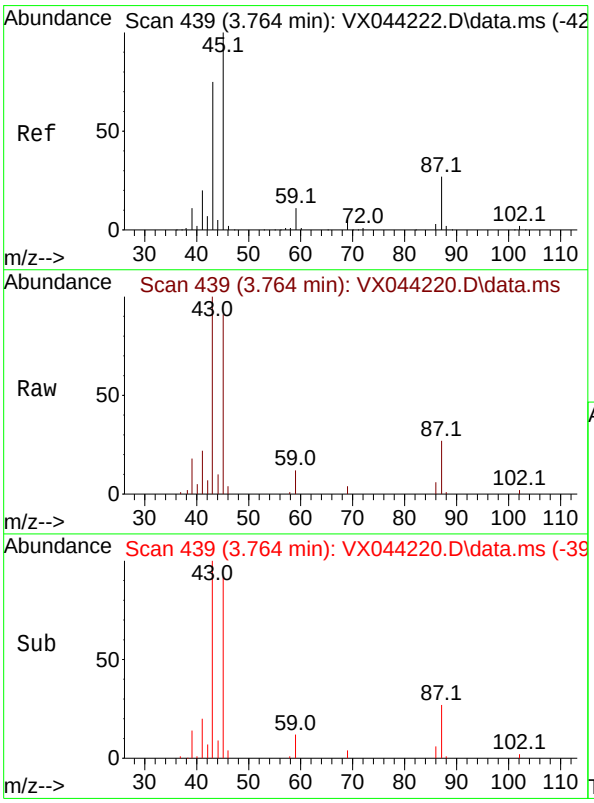
#21
trans-1,2-Dichloroethene
Concen: 4.671 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 7768

Ion	Ratio	Lower	Upper
96	100		
61	142.9	112.0	168.0
98	64.4	48.8	73.2

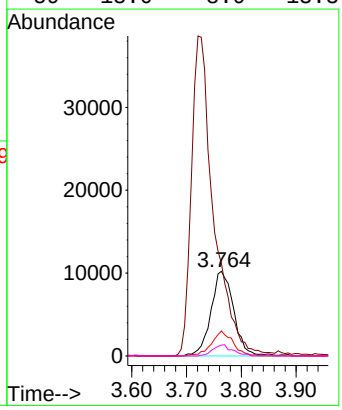


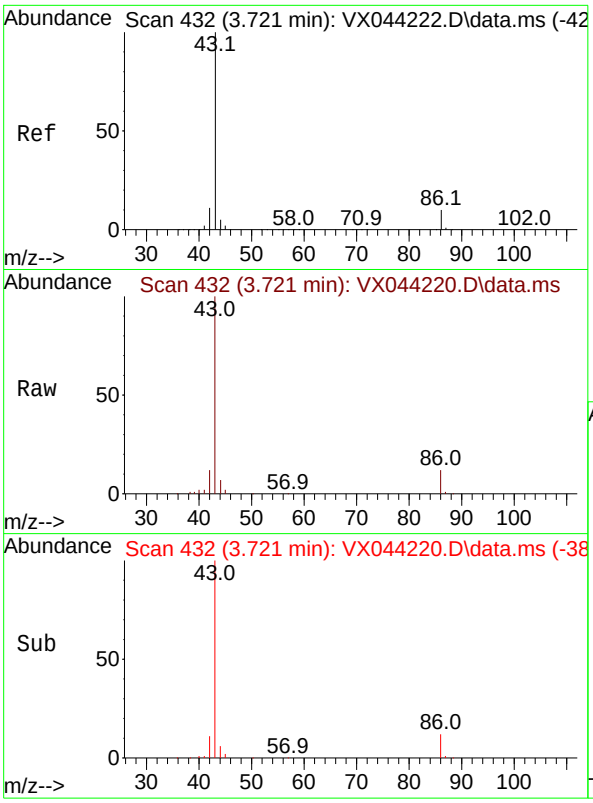


#22
Diisopropyl ether
Concen: 5.029 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 45 Resp: 29518

Ion	Ratio	Lower	Upper
45	100		
43	107.7	60.2	90.2#
87	29.5	21.2	31.8
59	13.0	8.9	13.3



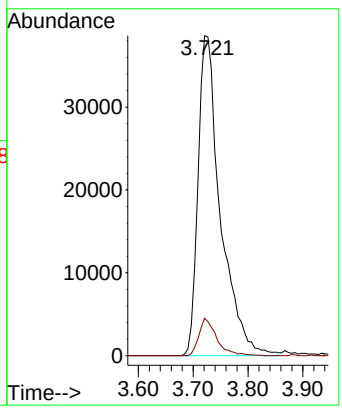


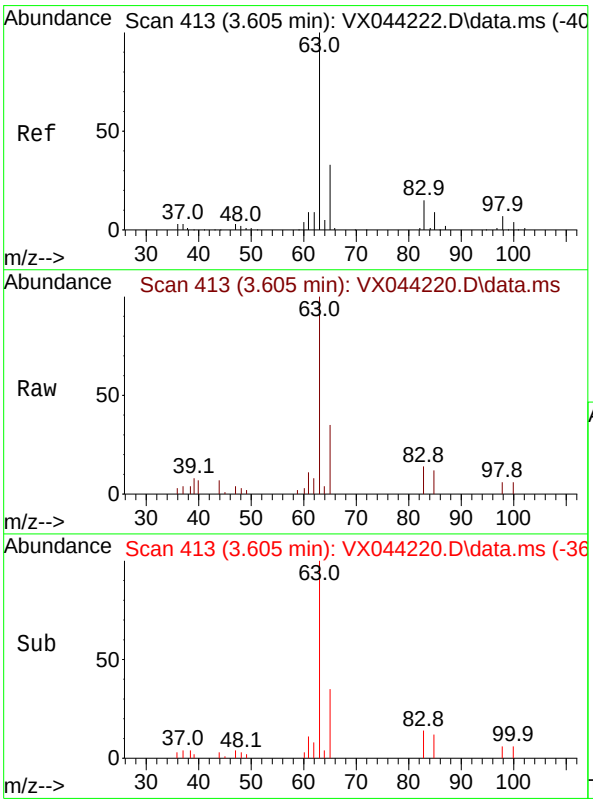
#23
Vinyl Acetate
Concen: 22.983 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 109670

Ion	Ratio	Lower	Upper
43	100		
86	11.7	8.2	12.2

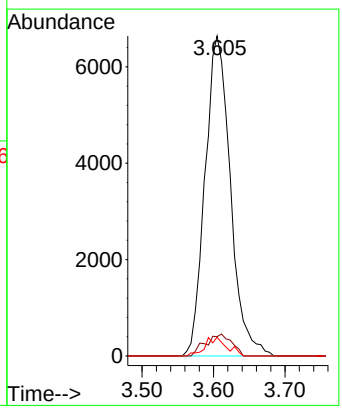


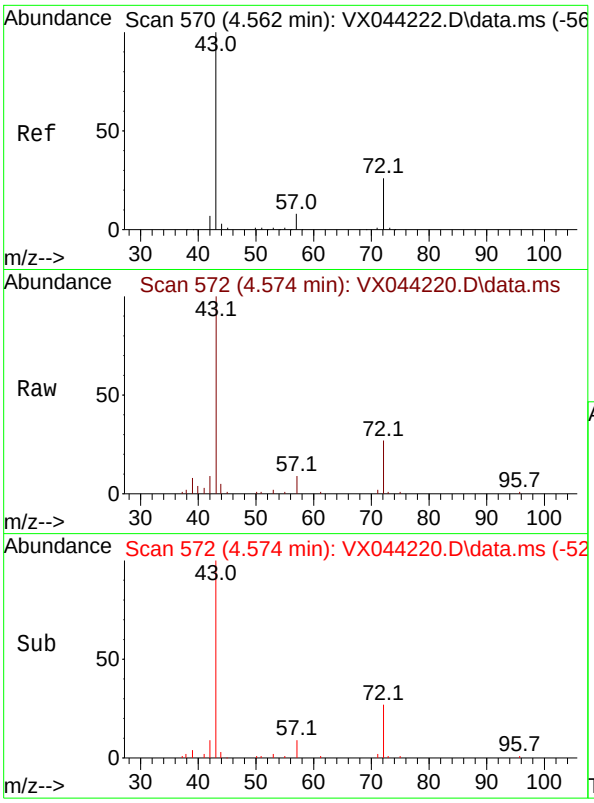


#24
1,1-Dichloroethane
Concen: 5.004 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 16370

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.6	10.8
100	5.9	2.1	6.3



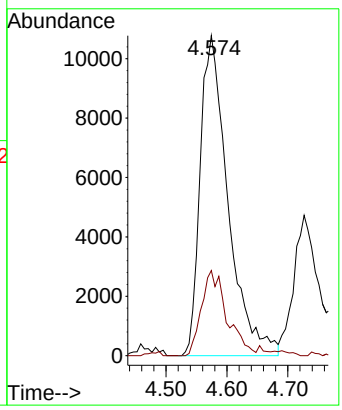


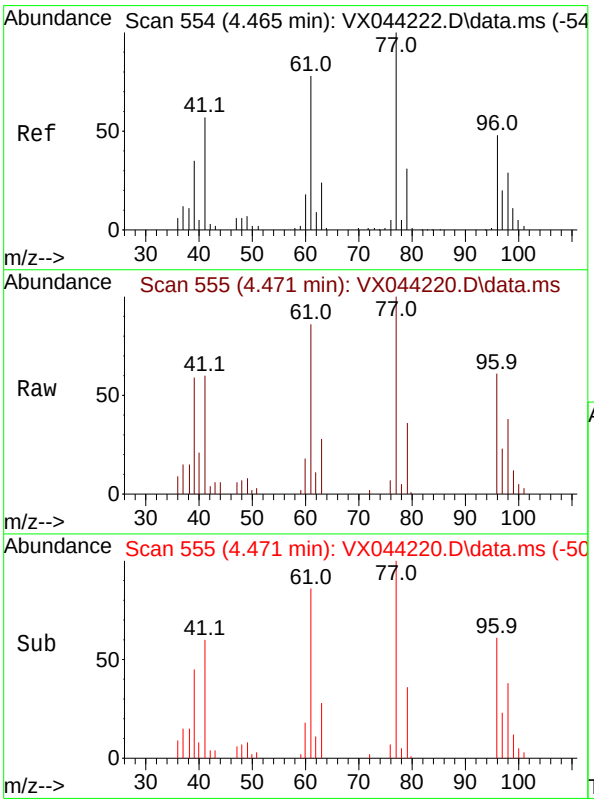
#25
2-Butanone
Concen: 24.138 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 34245

Ion	Ratio	Lower	Upper
43	100		
72	26.6	20.2	30.4

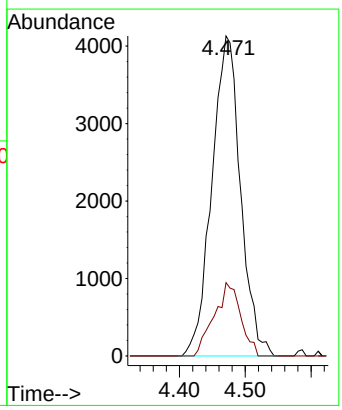


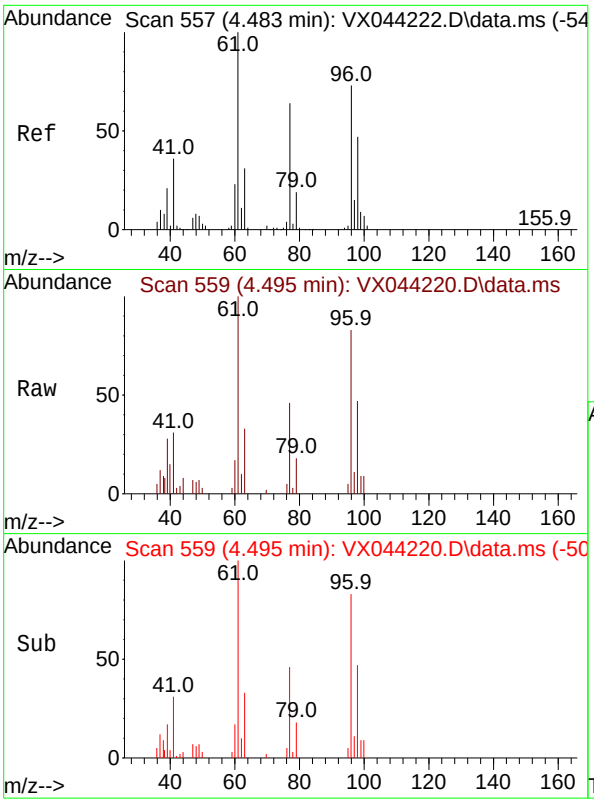


#26
2,2-Dichloropropane
Concen: 4.708 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 77 Resp: 12514

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.7	32.1



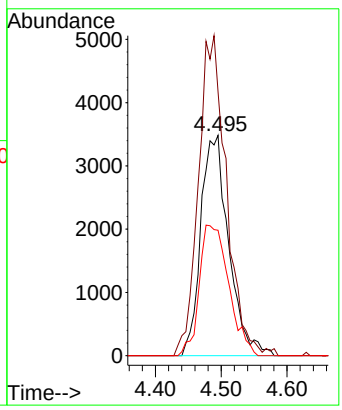


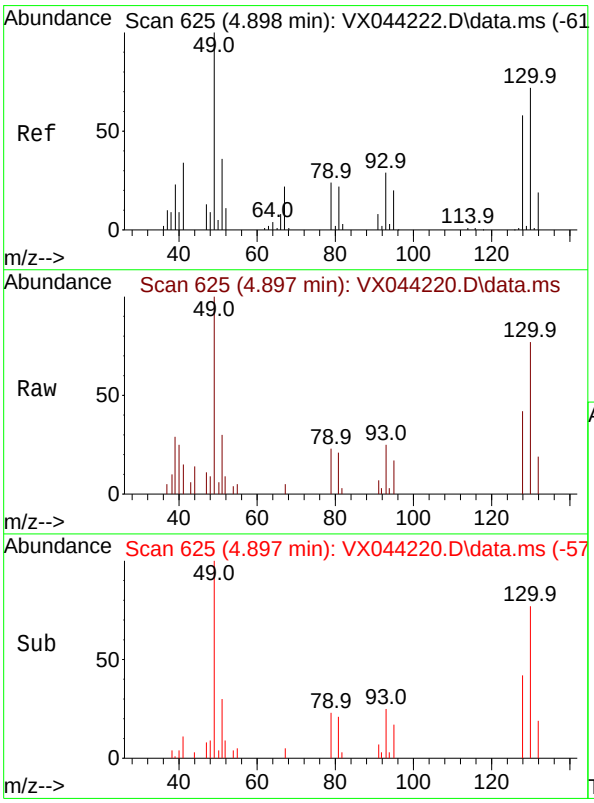
#27
cis-1,2-Dichloroethene
Concen: 4.873 ug/l
RT: 4.495 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 10292

Ion	Ratio	Lower	Upper
96	100		
61	145.0	0.0	299.0
98	62.4	0.0	129.0

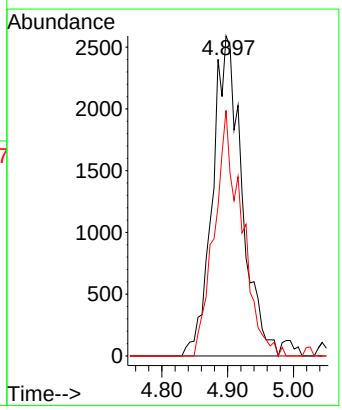


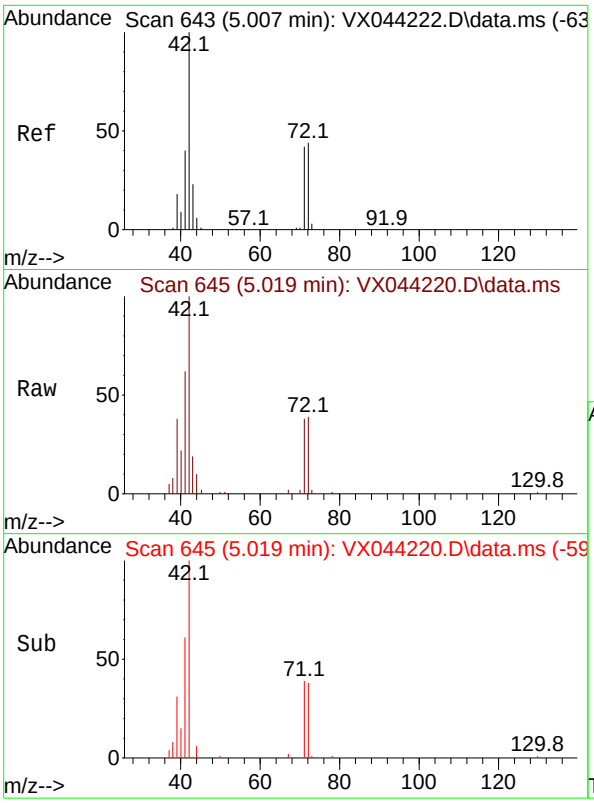


#28
Bromochloromethane
Concen: 5.017 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 49 Resp: 8049

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	71.2	62.1	93.1



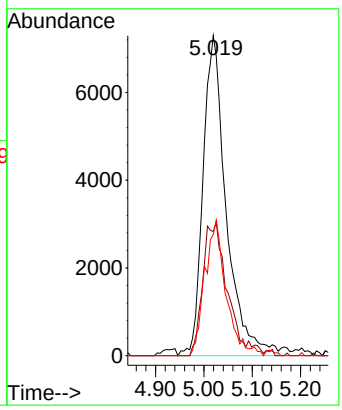


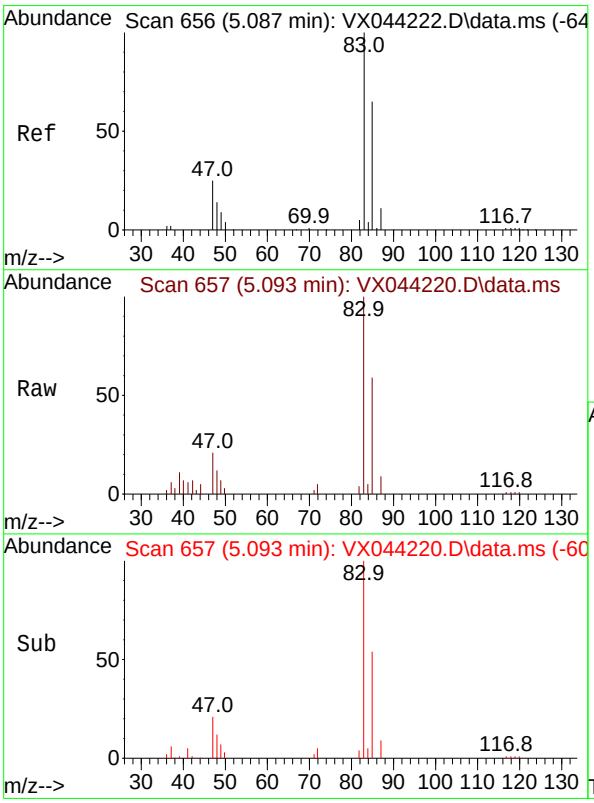
#29
Tetrahydrofuran
Concen: 26.693 ug/l
RT: 5.019 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 24307

Ion	Ratio	Lower	Upper
42	100		
72	42.3	37.0	55.6
71	38.9	33.6	50.4

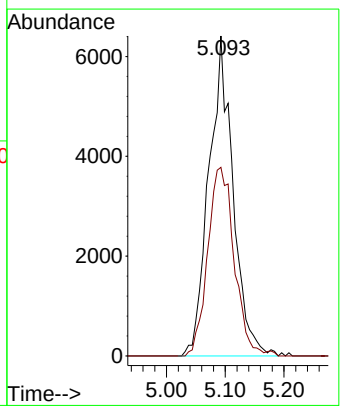


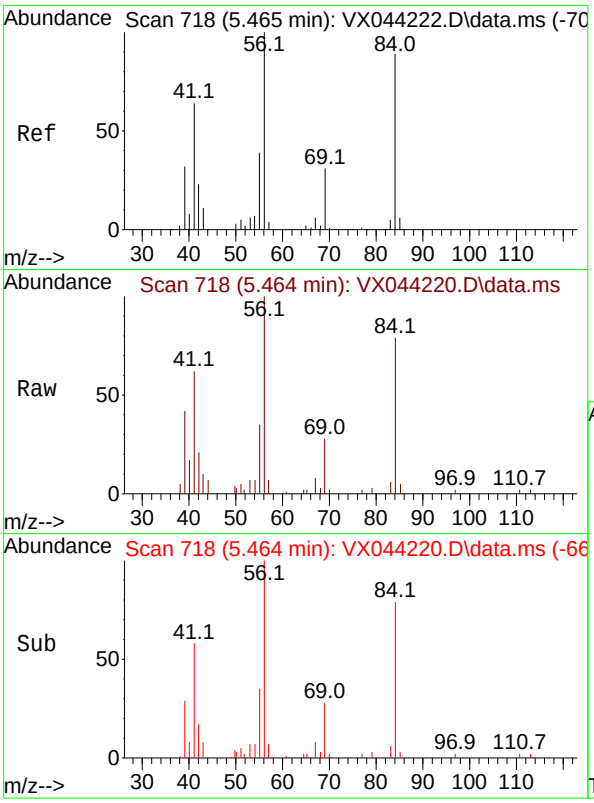


#30
Chloroform
Concen: 4.984 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 83 Resp: 18319

Ion	Ratio	Lower	Upper
83	100		
85	58.9	51.6	77.4



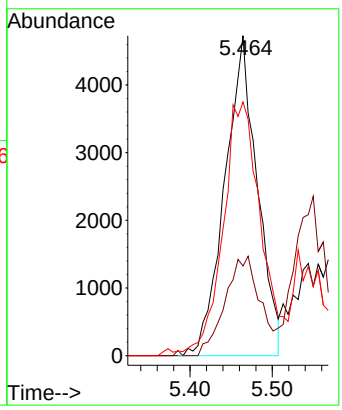


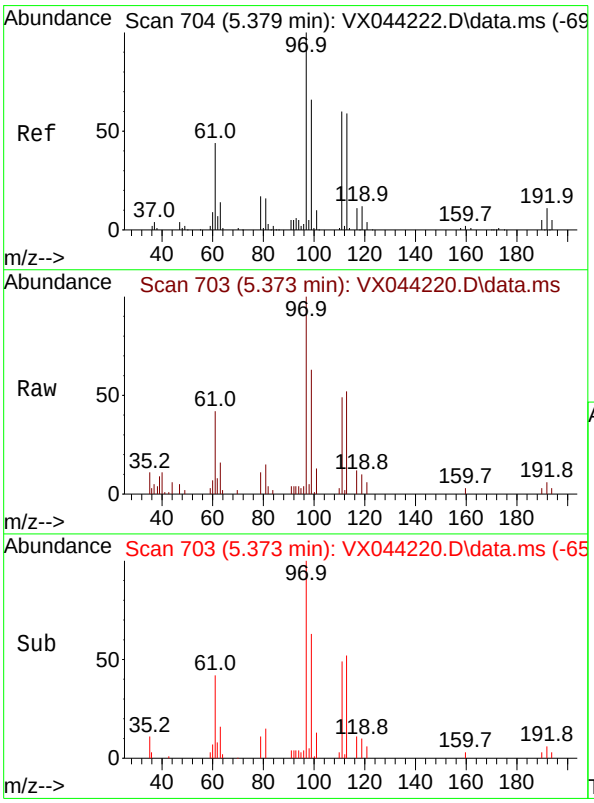
#31
Cyclohexane
Concen: 4.919 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 12995

Ion	Ratio	Lower	Upper
56	100		
69	26.4	24.7	37.1
84	77.9	71.0	106.6

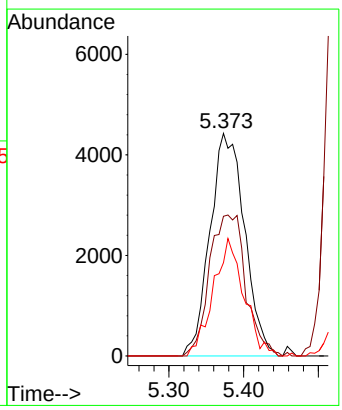


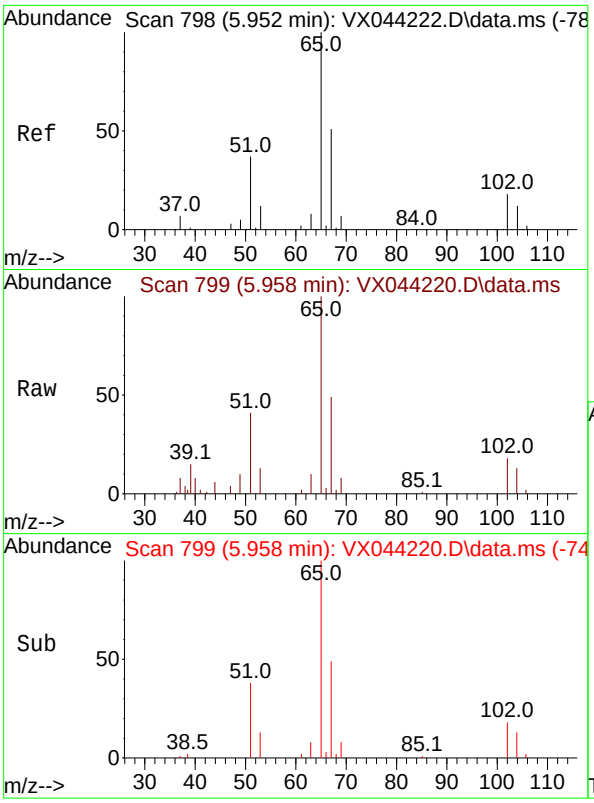


#32
1,1,1-Trichloroethane
Concen: 4.664 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 97 Resp: 14231

Ion	Ratio	Lower	Upper
97	100		
99	66.8	50.8	76.2
61	46.9	35.2	52.8



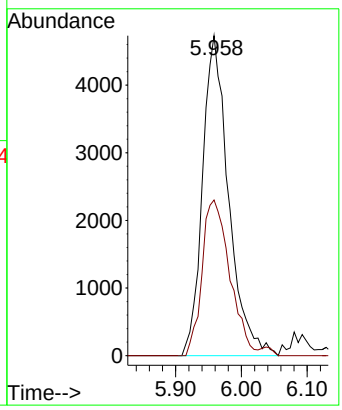


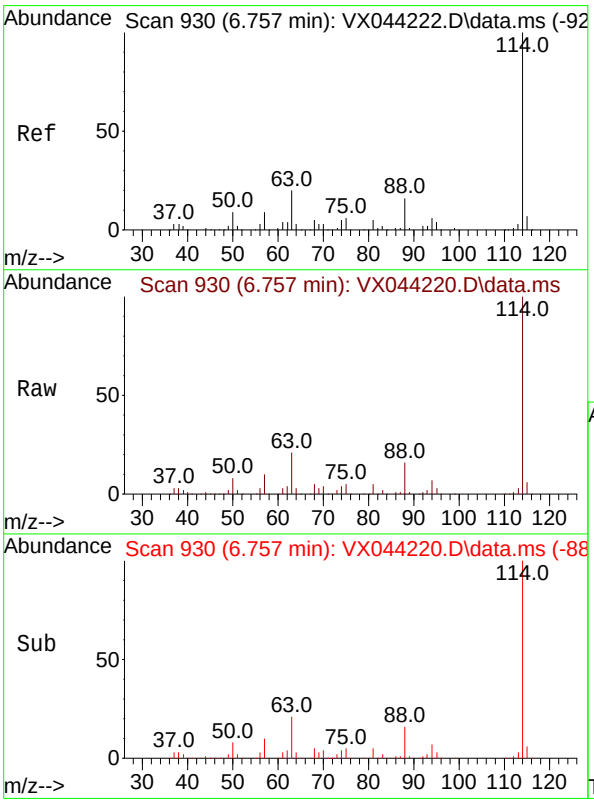
#33
1,2-Dichloroethane-d4
Concen: 5.328 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 13043

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	101.6

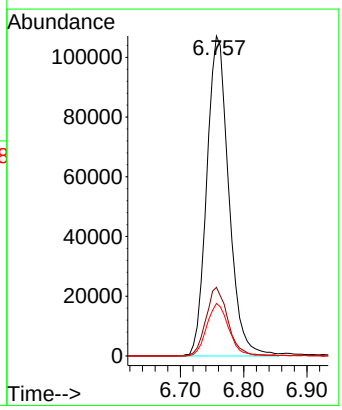


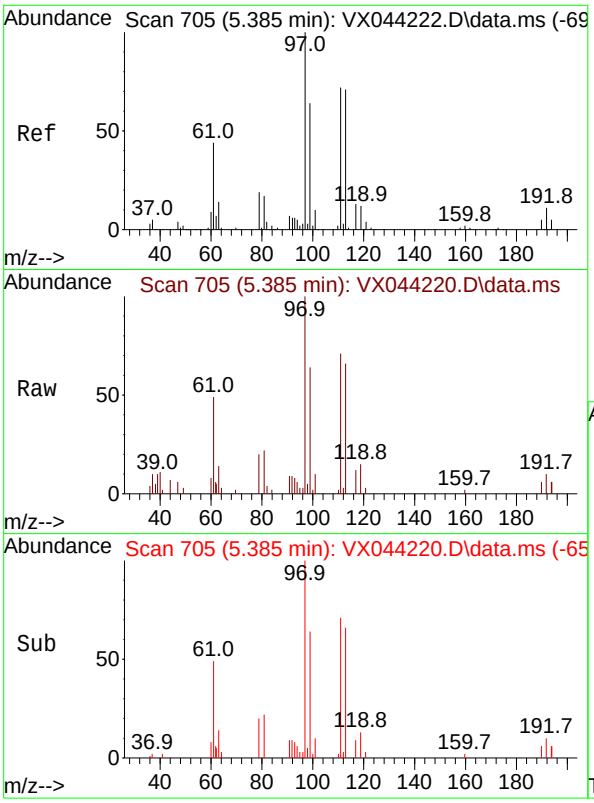


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:114 Resp: 258881

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	40.6
88	16.4	0.0	31.8



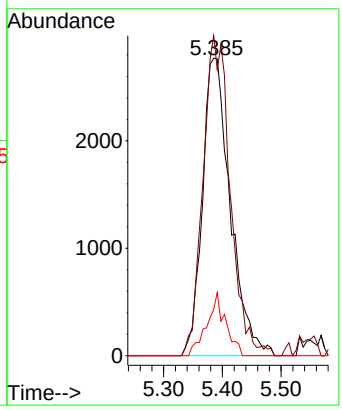


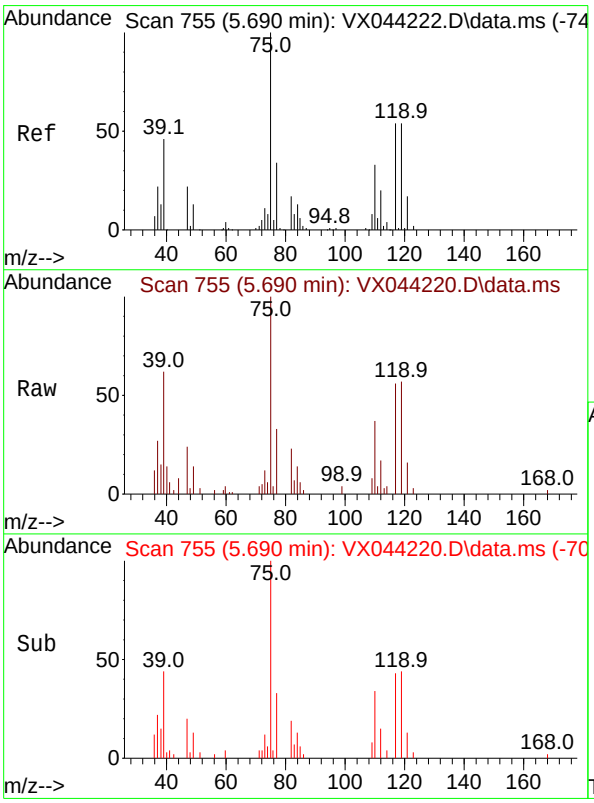
#35
Dibromofluoromethane
Concen: 5.100 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 9145

Ion	Ratio	Lower	Upper
113	100		
111	104.7	80.4	120.6
192	14.2	13.3	19.9

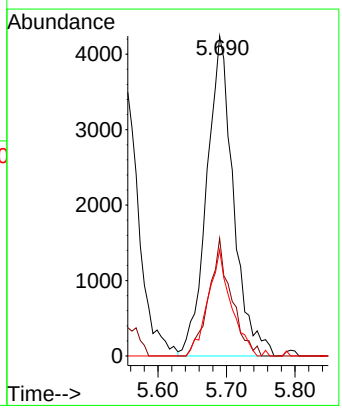


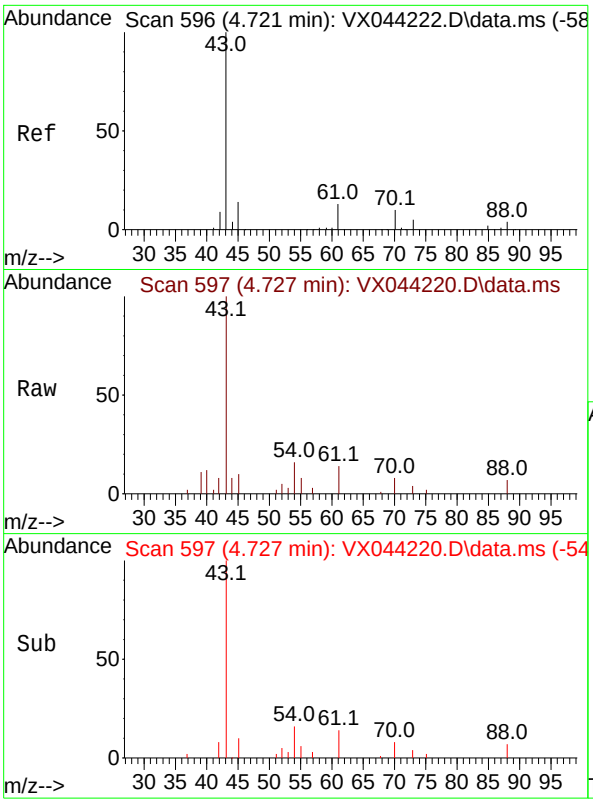


#36
1,1-Dichloropropene
Concen: 4.942 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11455

Ion	Ratio	Lower	Upper
75	100		
110	31.1	17.3	51.7
77	28.7	25.4	38.0



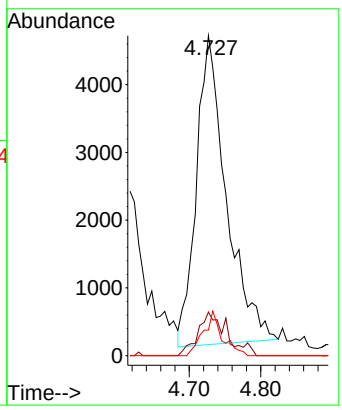


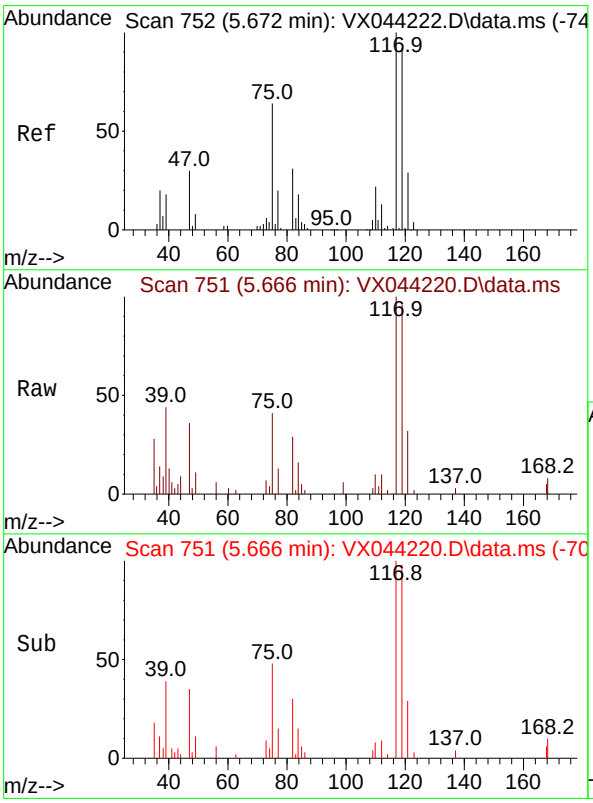
#37
Ethyl Acetate
Concen: 4.630 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 13265

Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.8	14.8
70	9.1	7.7	11.5

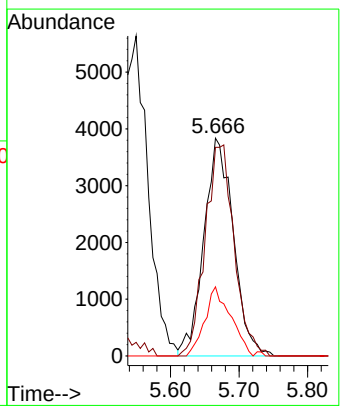


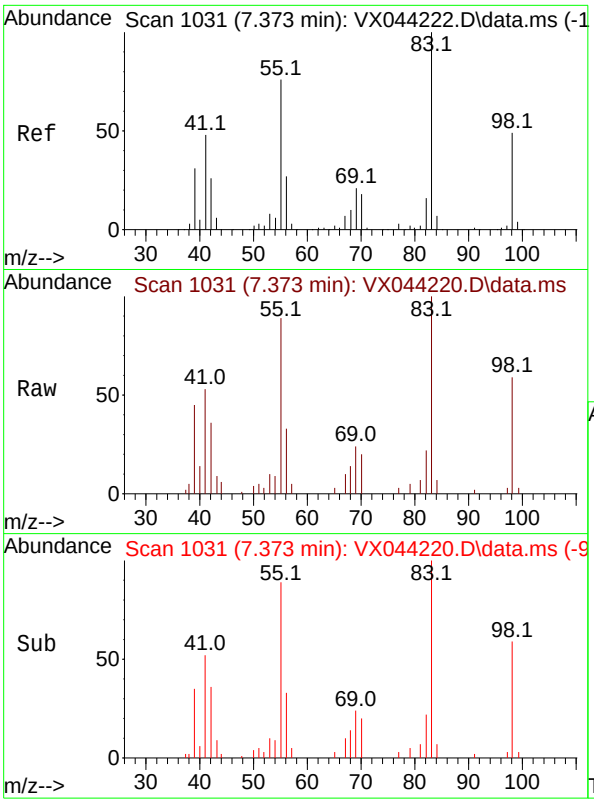


#38
Carbon Tetrachloride
Concen: 4.599 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 11476

Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.2	111.4
121	31.7	23.0	34.6



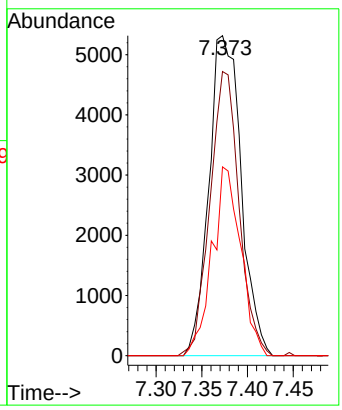


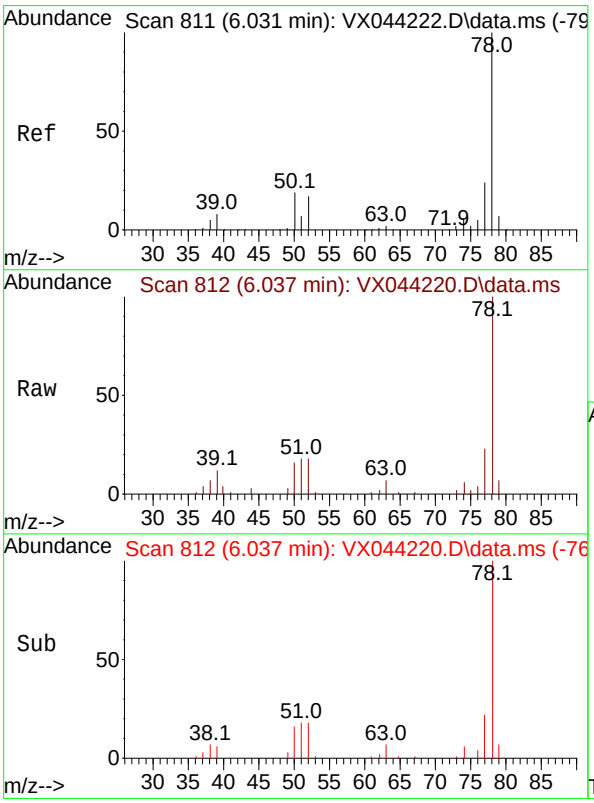
#39
Methylcyclohexane
Concen: 4.699 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 13019

Ion	Ratio	Lower	Upper
83	100		
55	88.8	60.7	91.1
98	59.0	38.9	58.3#

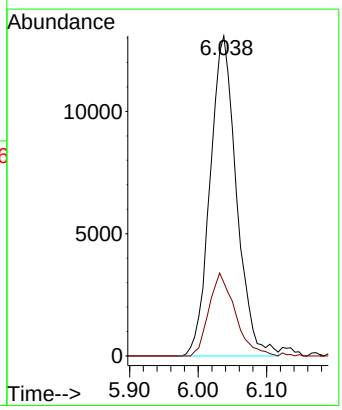


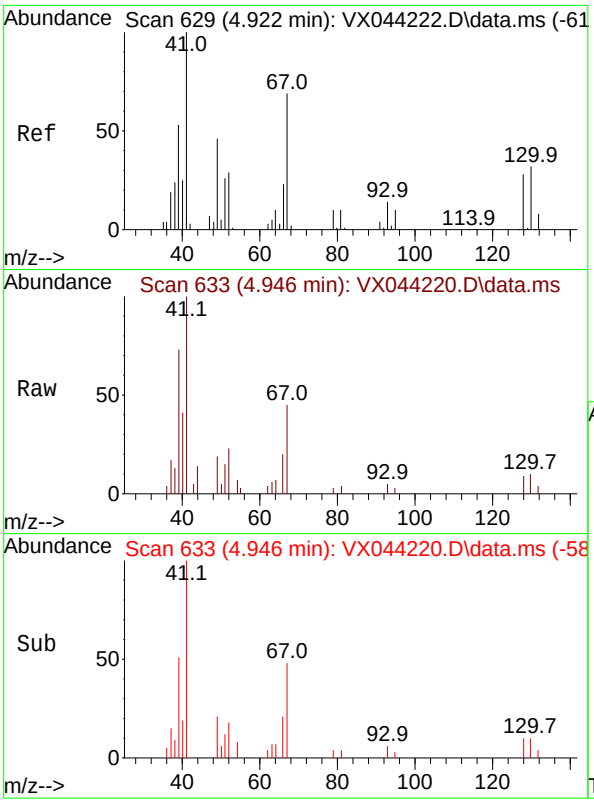


#40
Benzene
Concen: 4.976 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 78 Resp: 35018

Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.3	28.9



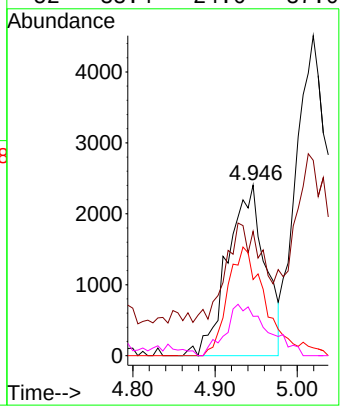


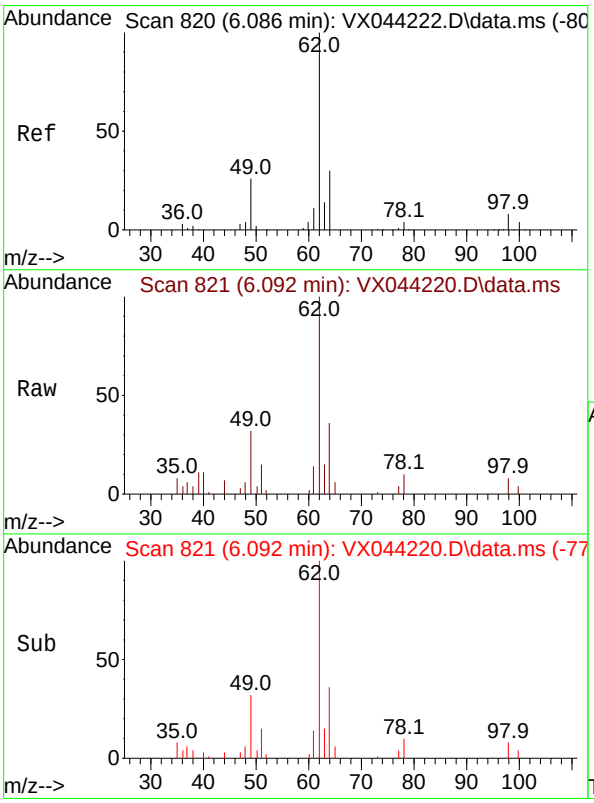
#41
Methacrylonitrile
Concen: 4.986 ug/l
RT: 4.946 min Scan# 6
Delta R.T. 0.024 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 7585

Ion	Ratio	Lower	Upper
41	100		
39	58.4	44.2	66.4
67	63.0	57.2	85.8
52	33.4	24.6	37.0

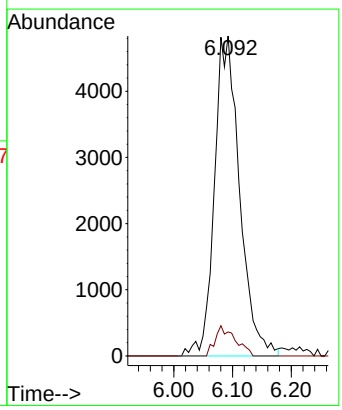


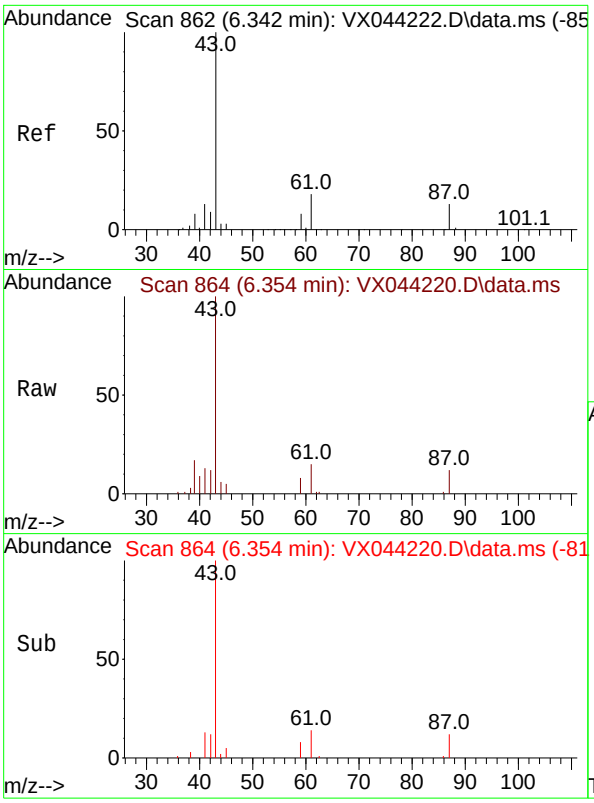


#42
1,2-Dichloroethane
Concen: 4.974 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 62 Resp: 14419

Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	15.8



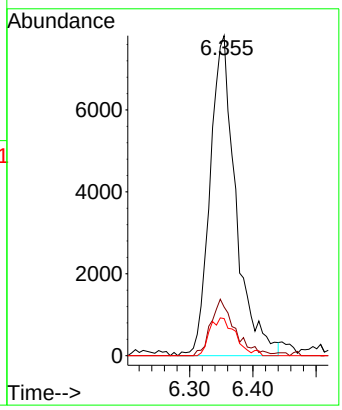


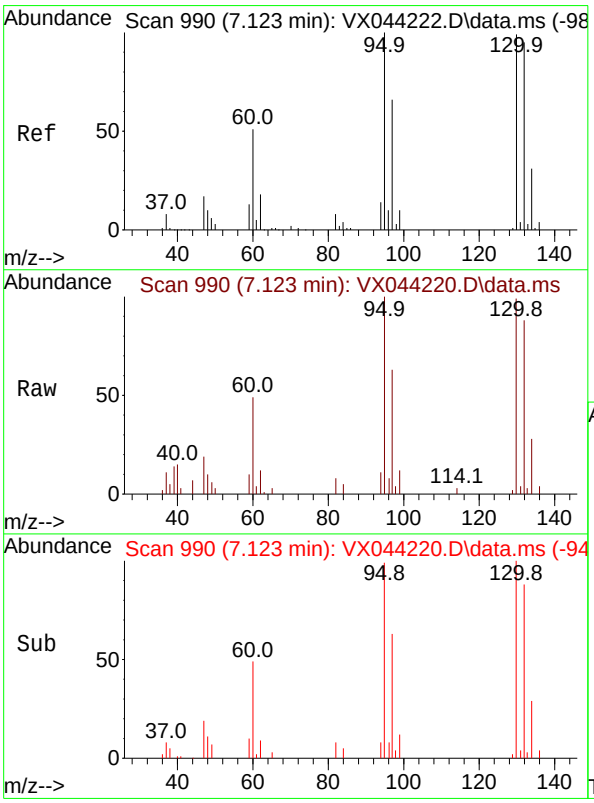
#43
Isopropyl Acetate
Concen: 4.935 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 22098

Ion	Ratio	Lower	Upper
43	100		
61	16.5	14.2	21.2
87	11.9	10.2	15.2

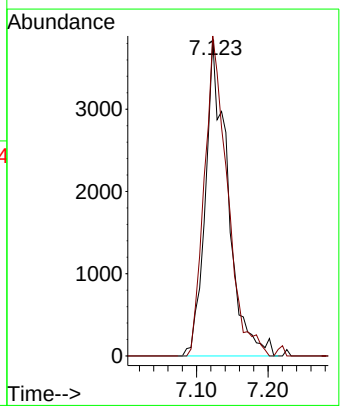


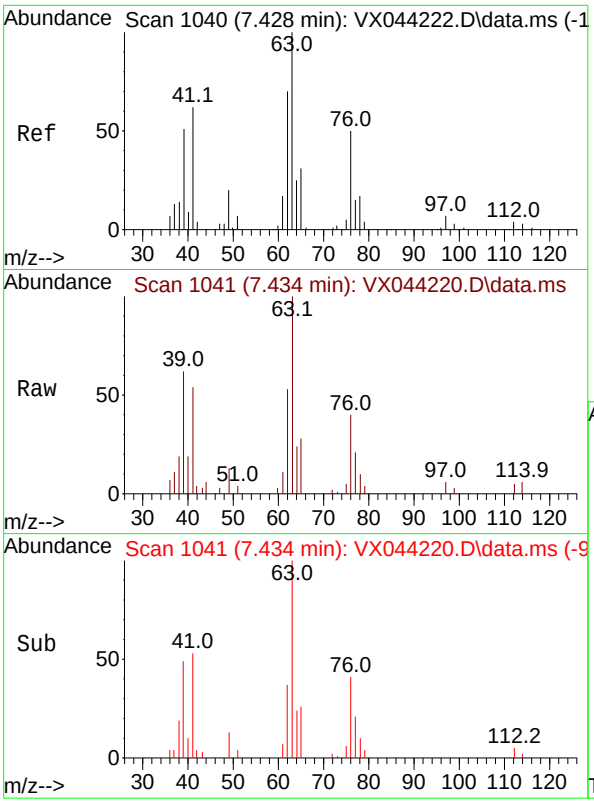


#44
Trichloroethene
Concen: 4.790 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:130 Resp: 8405

Ion	Ratio	Lower	Upper
130	100		
95	100.9	0.0	201.4



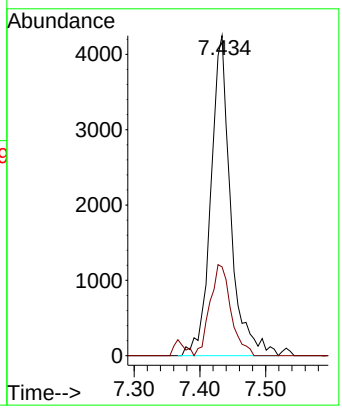


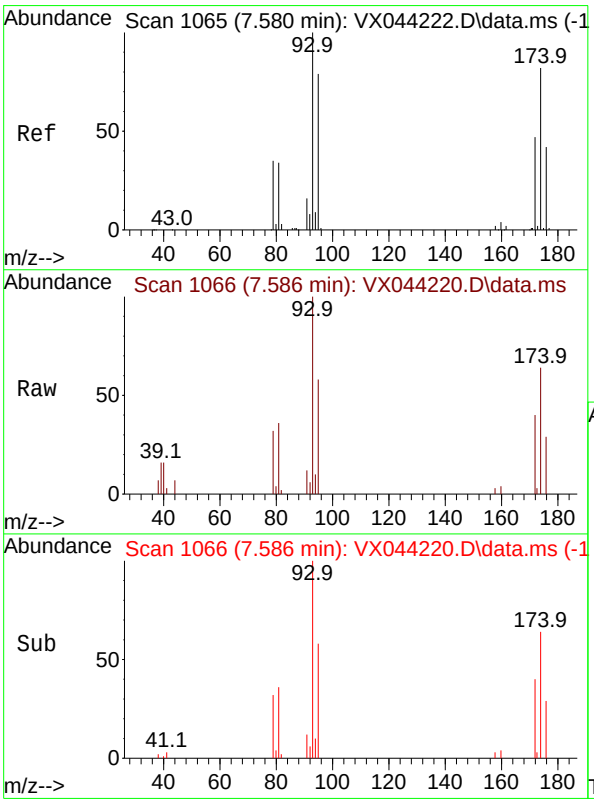
#45
1,2-Dichloropropane
Concen: 4.968 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 8932

Ion	Ratio	Lower	Upper
63	100		
65	27.8	24.6	37.0

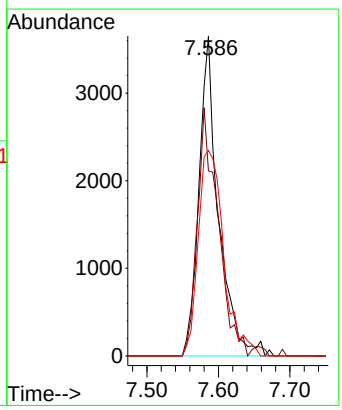


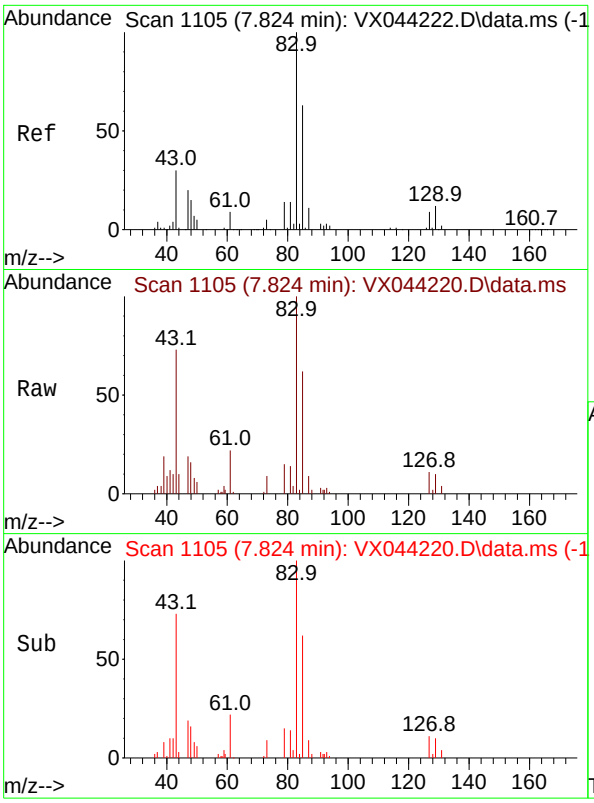


#46
Dibromomethane
Concen: 4.958 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 93 Resp: 6915

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.4	98.2
174	83.6	67.9	101.9



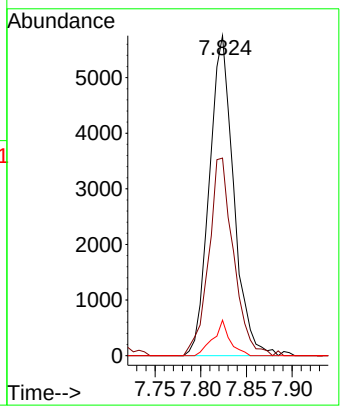


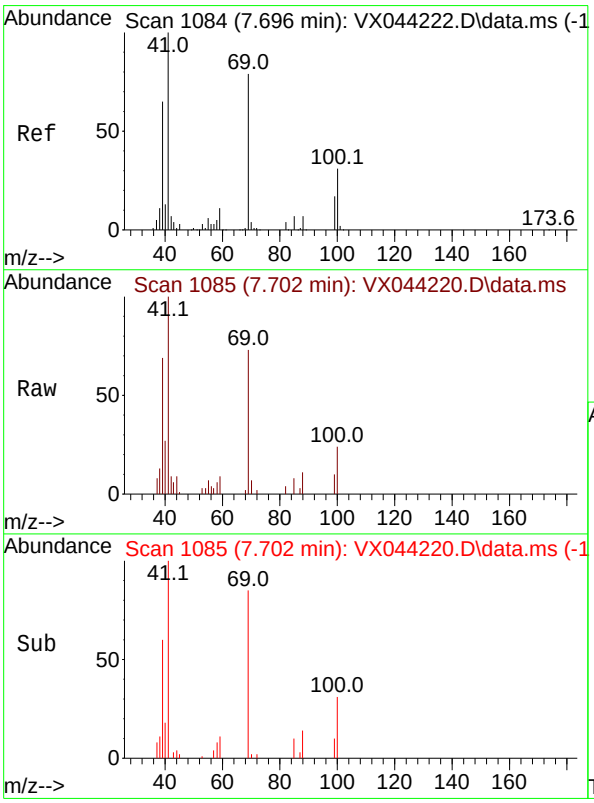
#47
Bromodichloromethane
Concen: 4.420 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 10646

Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.6	75.8
127	11.1	7.3	10.9#

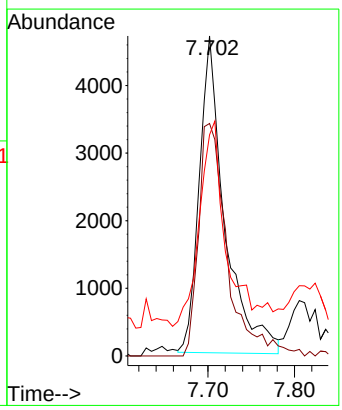


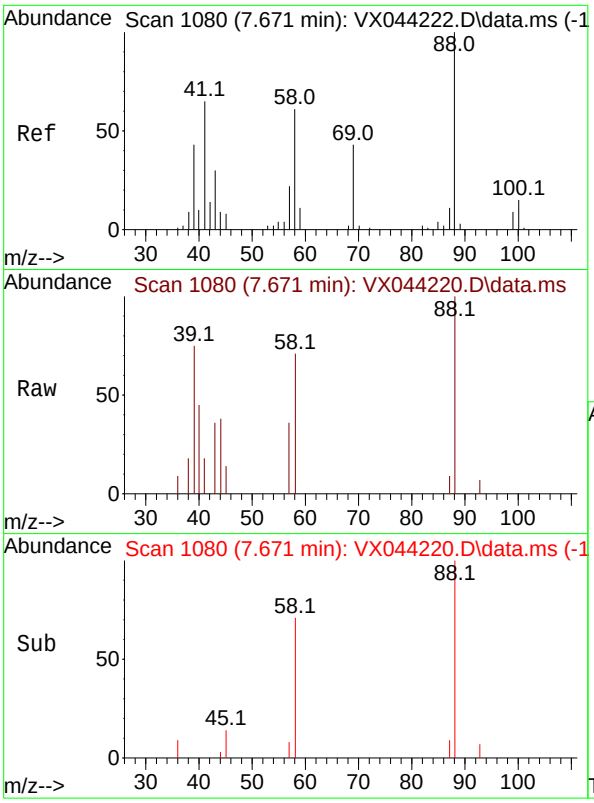


#48
Methyl methacrylate
Concen: 4.410 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 41 Resp: 9586

Ion	Ratio	Lower	Upper
41	100		
69	82.8	62.4	93.6
39	66.7	53.3	79.9



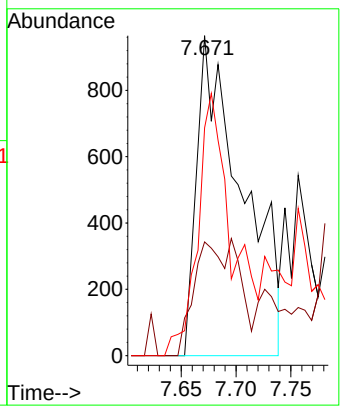


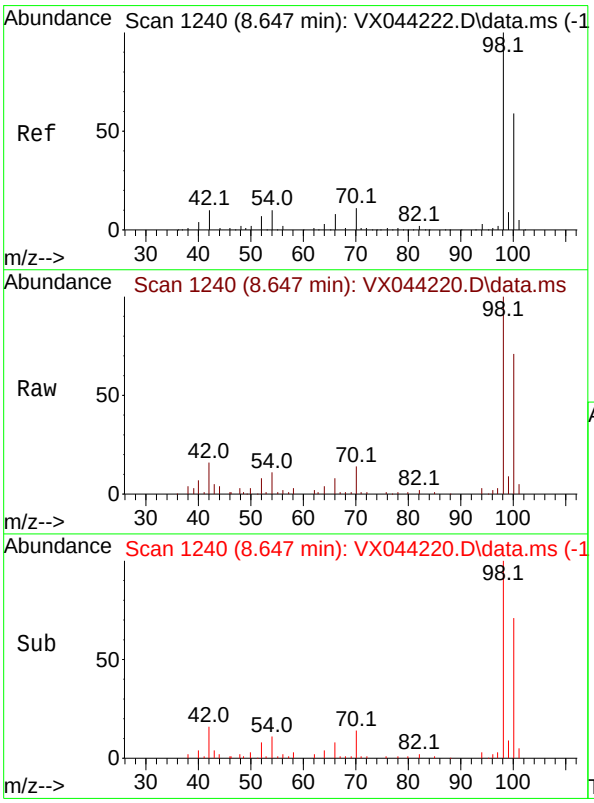
#49
1,4-Dioxane
Concen: 74.917 ug/l
RT: 7.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 2783

Ion	Ratio	Lower	Upper
88	100		
43	23.3	27.1	40.7#
58	61.6	41.0	61.4#

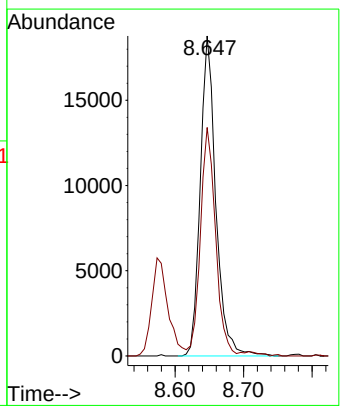


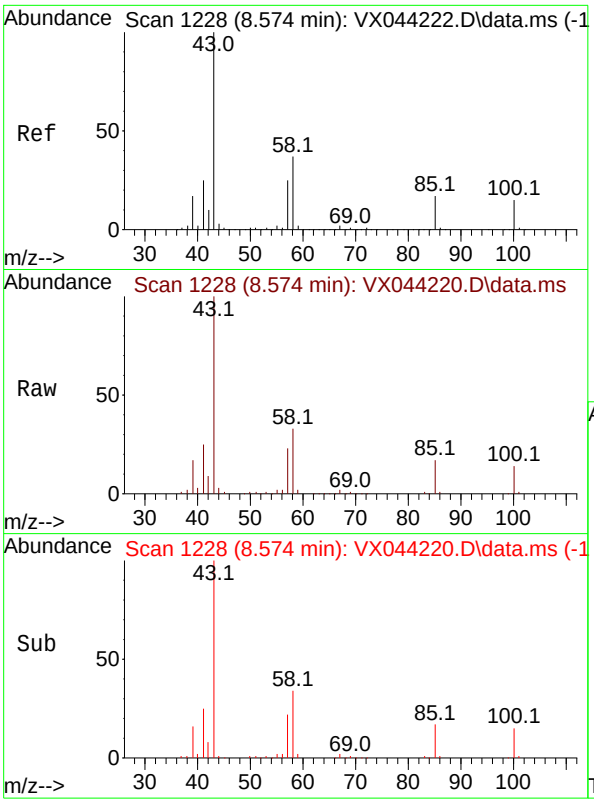


#50
Toluene-d8
Concen: 4.915 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 98 Resp: 29732

Ion	Ratio	Lower	Upper
98	100		
100	67.4	51.5	77.3



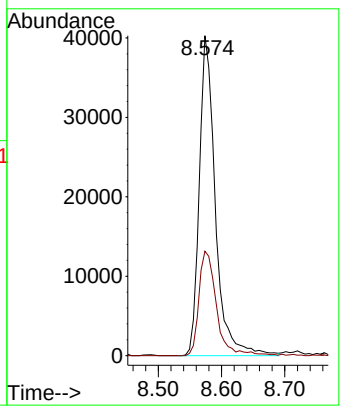


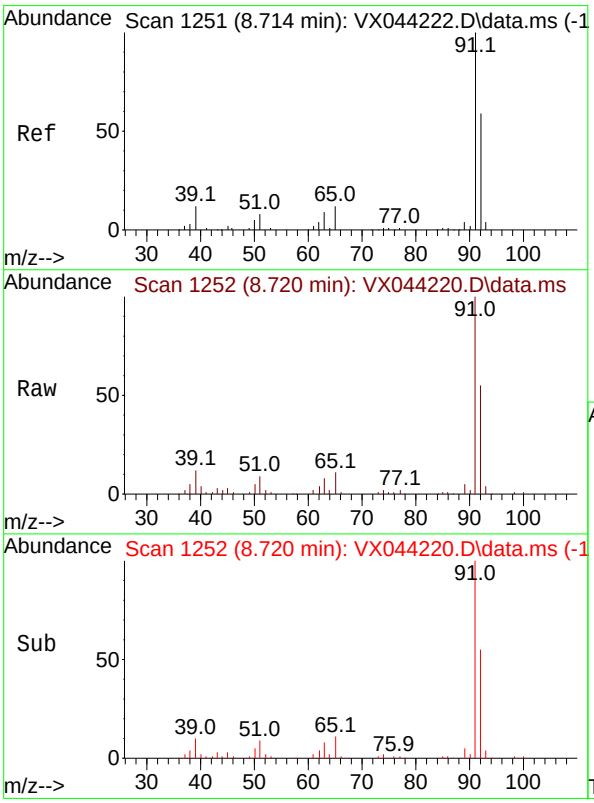
#51
4-Methyl-2-Pentanone
Concen: 24.759 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 71285

Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.4	44.0

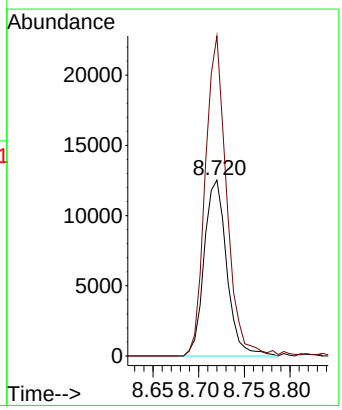


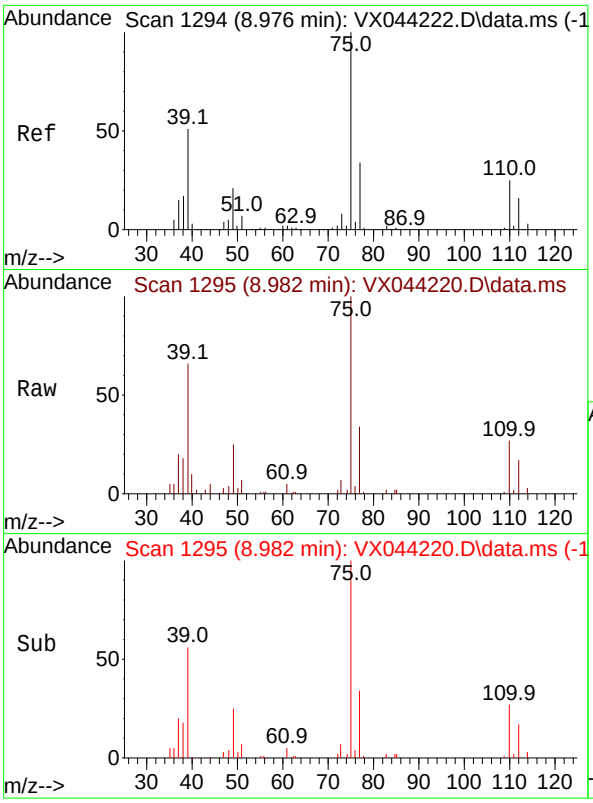


#52
Toluene
Concen: 4.862 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 92 Resp: 21486

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.0	205.6



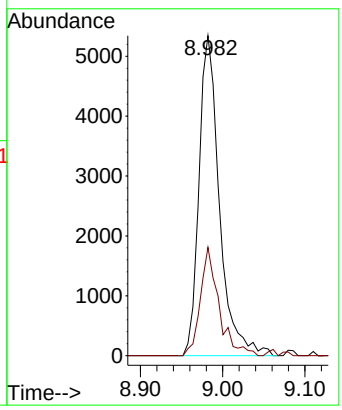


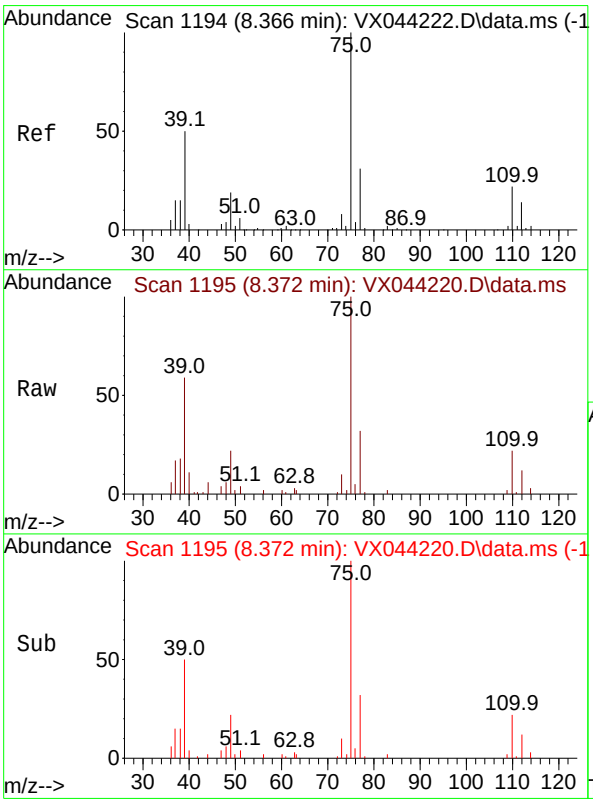
#53
t-1,3-Dichloropropene
Concen: 4.665 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 9232

Ion	Ratio	Lower	Upper
75	100		
77	33.8	27.2	40.8

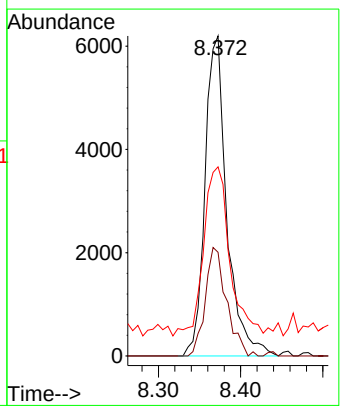


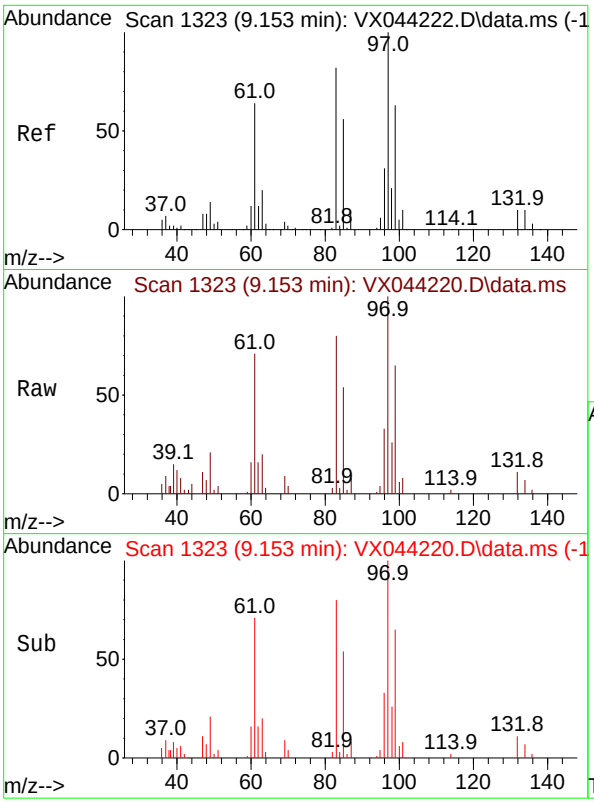


#54
cis-1,3-Dichloropropene
Concen: 4.348 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 11404

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.7	37.1
39	50.5	40.3	60.5



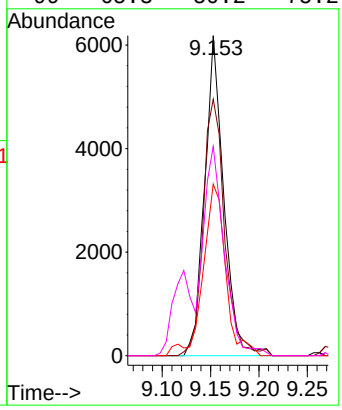


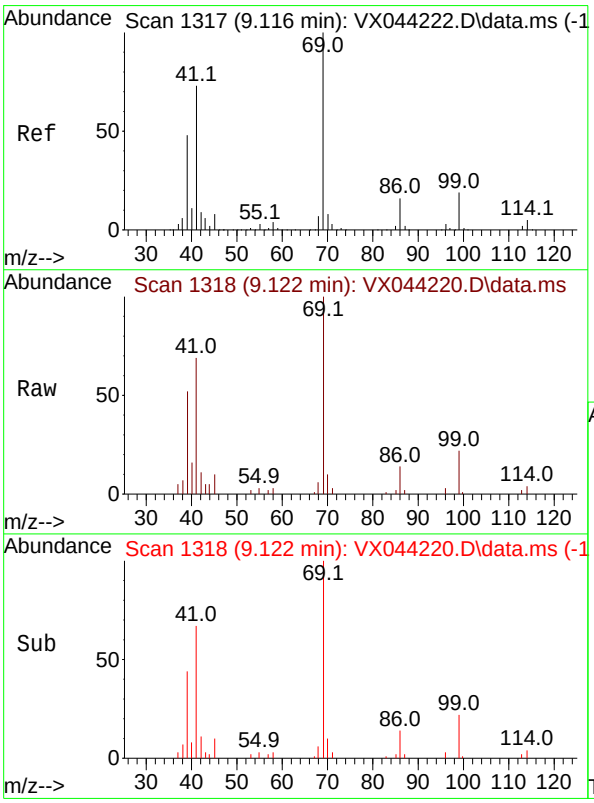
#55
1,1,2-Trichloroethane
Concen: 4.893 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 8590

Ion	Ratio	Lower	Upper
97	100		
83	80.2	65.3	97.9
85	53.6	44.6	67.0
99	65.3	50.2	75.2

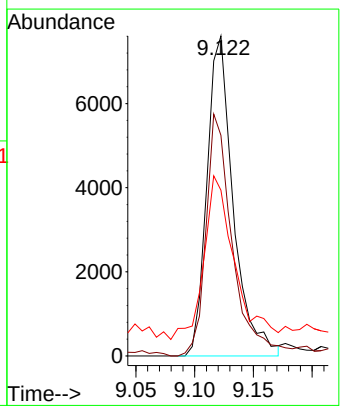


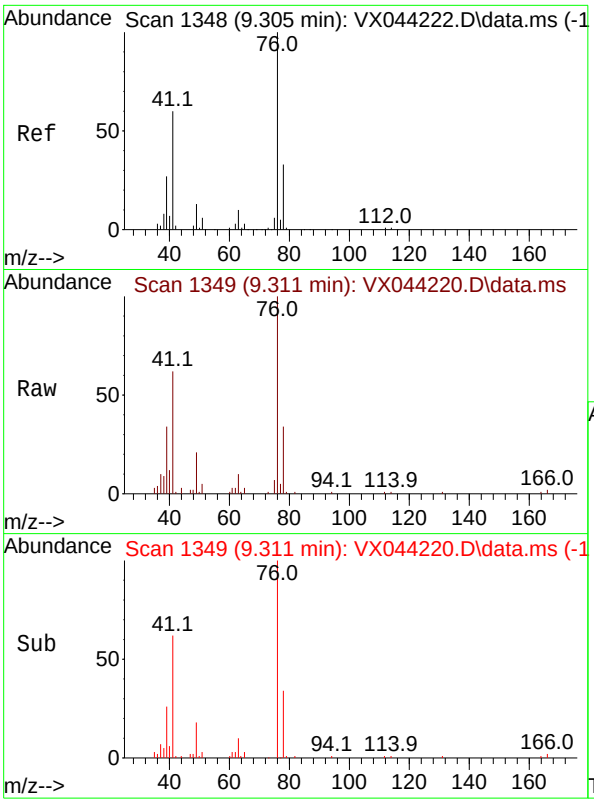


#56
Ethyl methacrylate
Concen: 4.277 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 69 Resp: 11854

Ion	Ratio	Lower	Upper
69	100		
41	76.0	56.6	85.0
39	58.7	37.4	56.0#



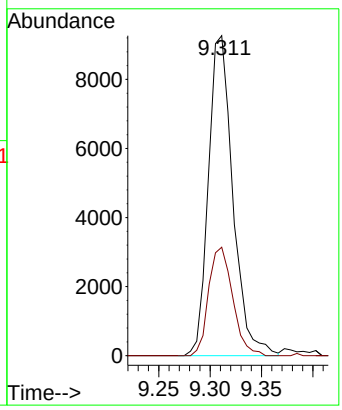


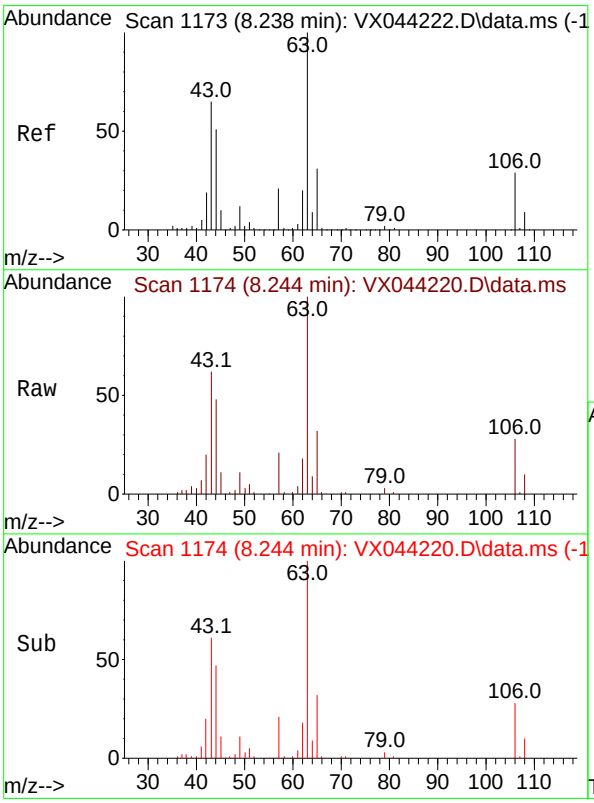
#57
1,3-Dichloropropane
Concen: 5.024 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 15352

Ion	Ratio	Lower	Upper
76	100		
78	33.3	26.5	39.7

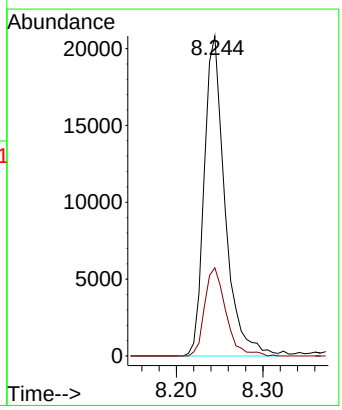


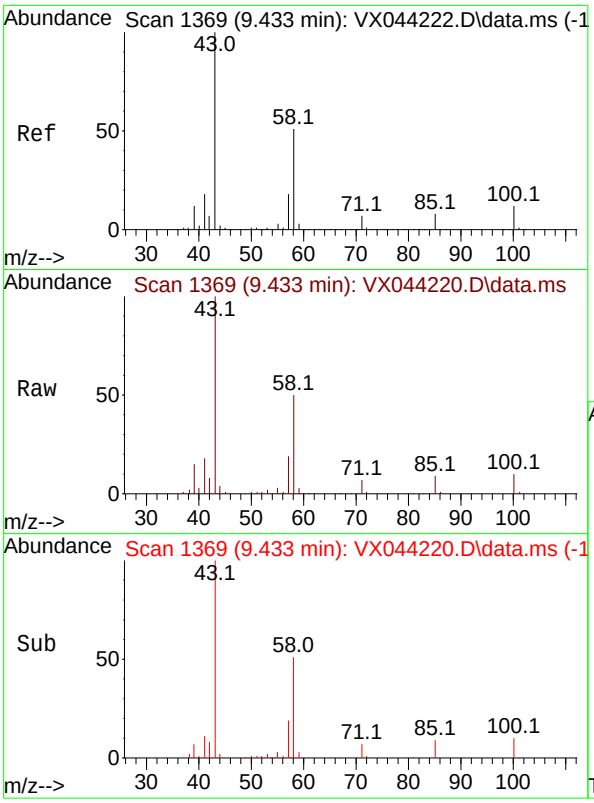


#58
2-Chloroethyl Vinyl ether
Concen: 24.852 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 63 Resp: 34738

Ion	Ratio	Lower	Upper
63	100		
106	28.1	22.8	34.2



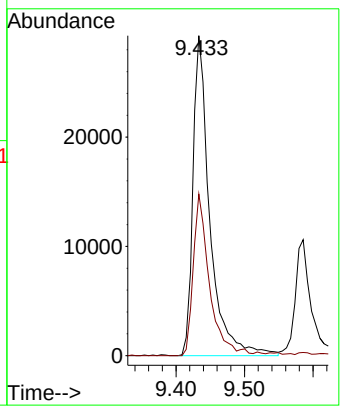


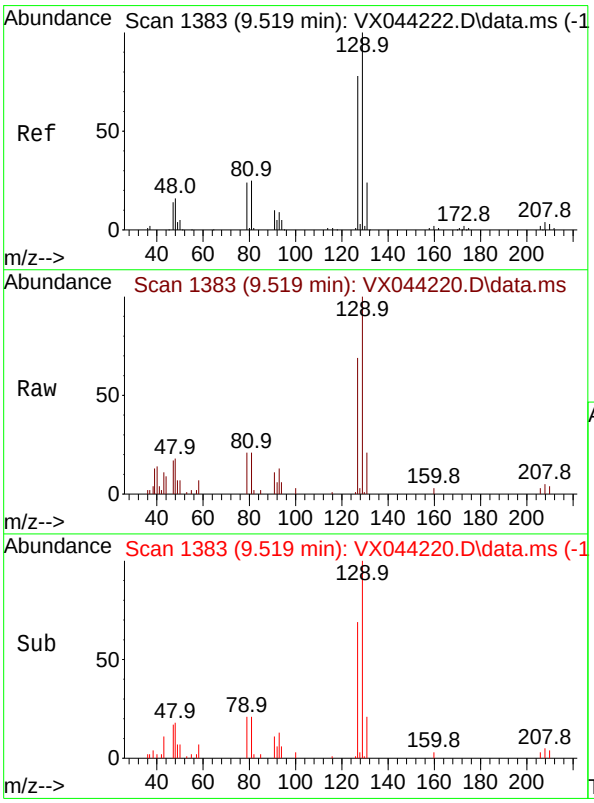
#59
2-Hexanone
Concen: 23.994 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 50003

Ion	Ratio	Lower	Upper
43	100		
58	48.6	25.7	77.0

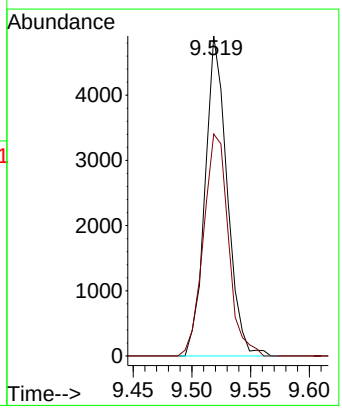


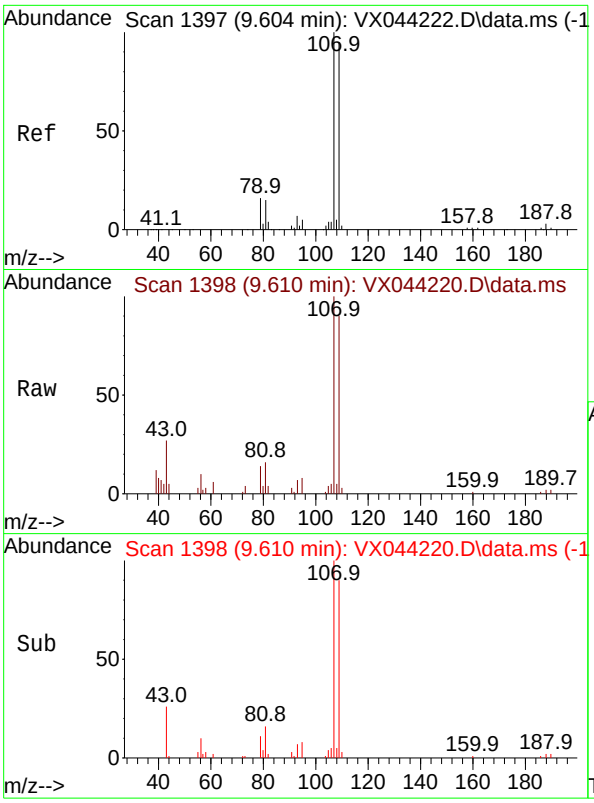


#60
Dibromochloromethane
Concen: 4.738 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:129 Resp: 6411

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.5	115.3



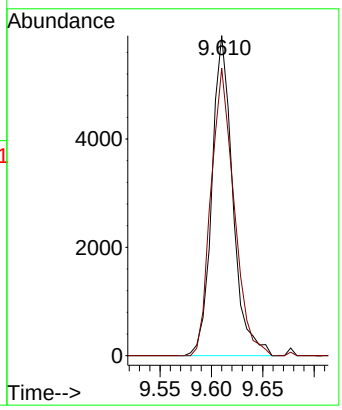


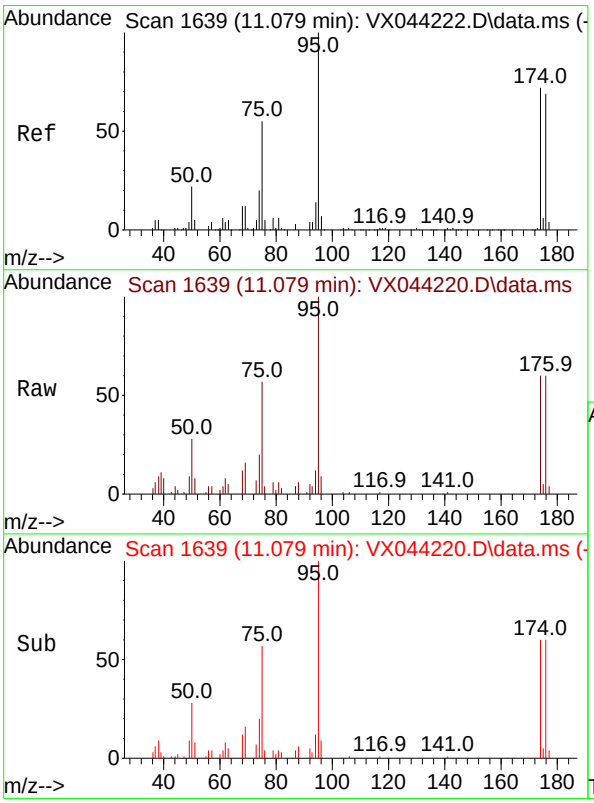
#61
1,2-Dibromoethane
Concen: 4.662 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 8330

Ion	Ratio	Lower	Upper
107	100		
109	99.5	77.0	115.4

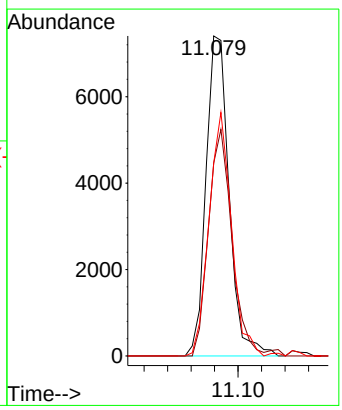


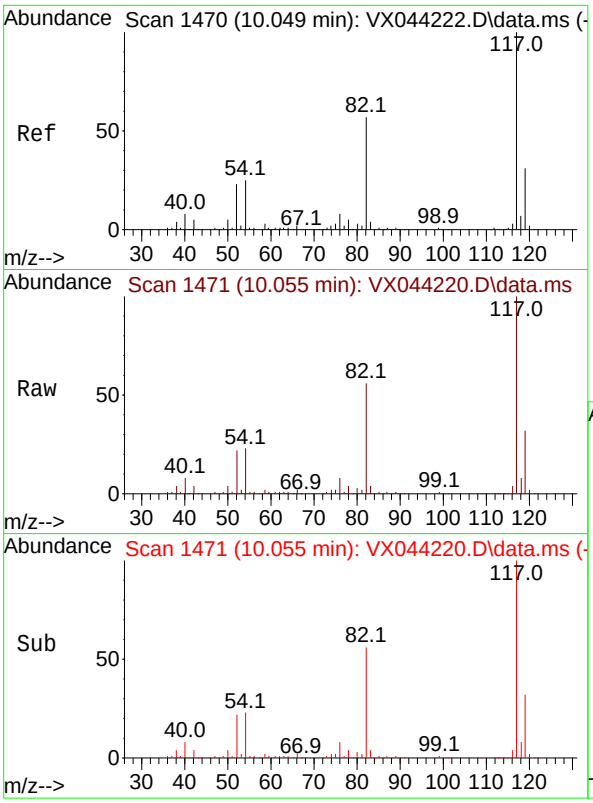


#62
4-Bromofluorobenzene
Concen: 4.779 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 95 Resp: 10101

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	145.8
176	74.4	0.0	137.8



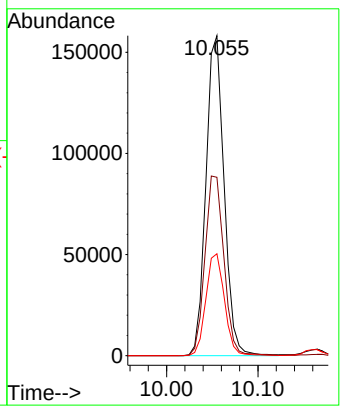


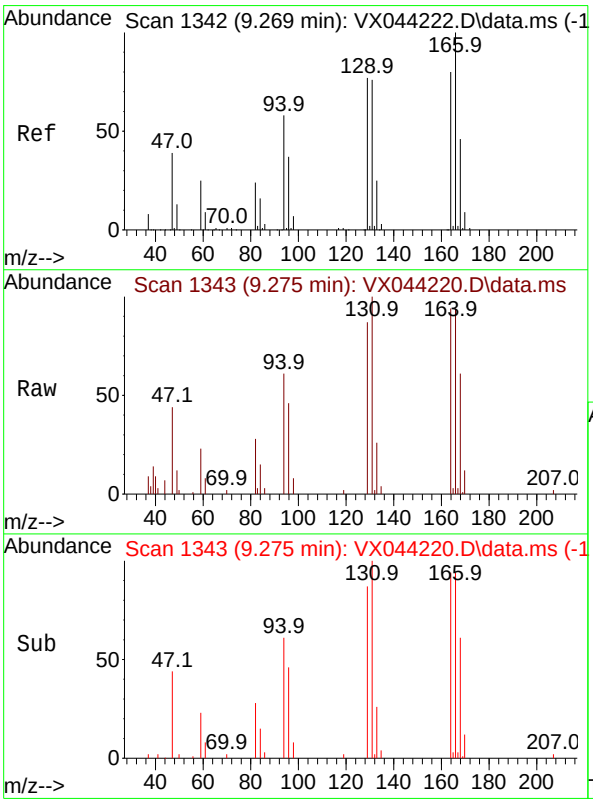
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 217783

Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.8	68.8
119	31.9	25.0	37.4

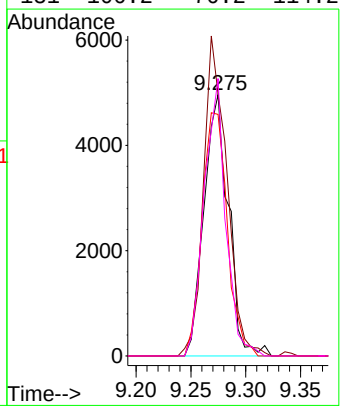


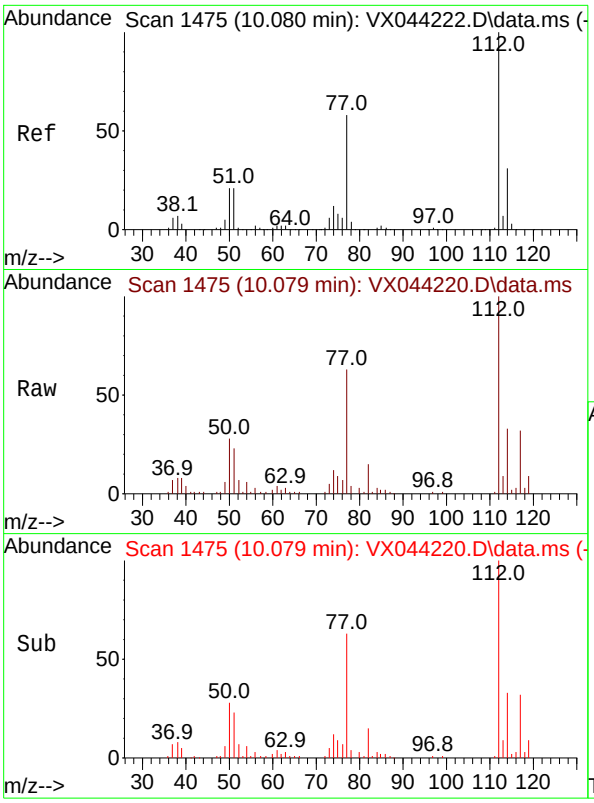


#64
Tetrachloroethene
Concen: 5.334 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:164 Resp: 7710

Ion	Ratio	Lower	Upper
164	100		
166	100.3	100.4	150.6#
129	92.5	77.2	115.8
131	106.2	76.2	114.2



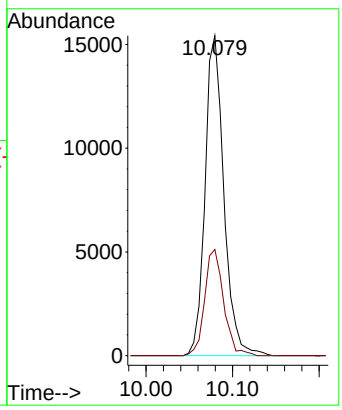


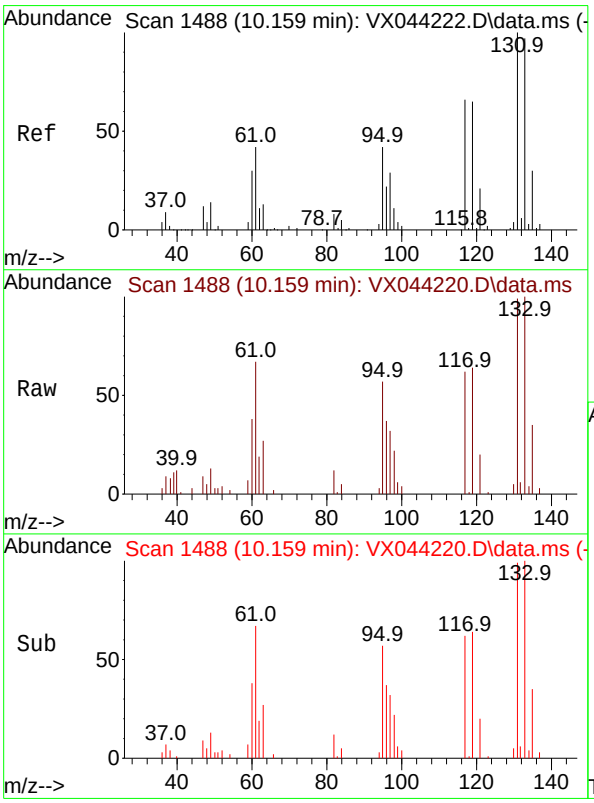
#65
Chlorobenzene
Concen: 4.986 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 23268

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.0	37.6

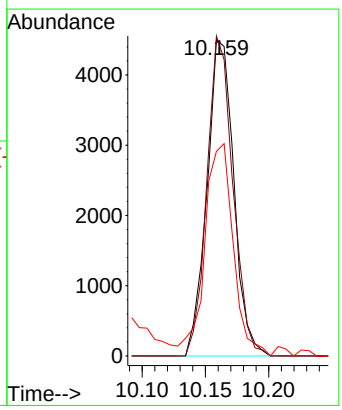


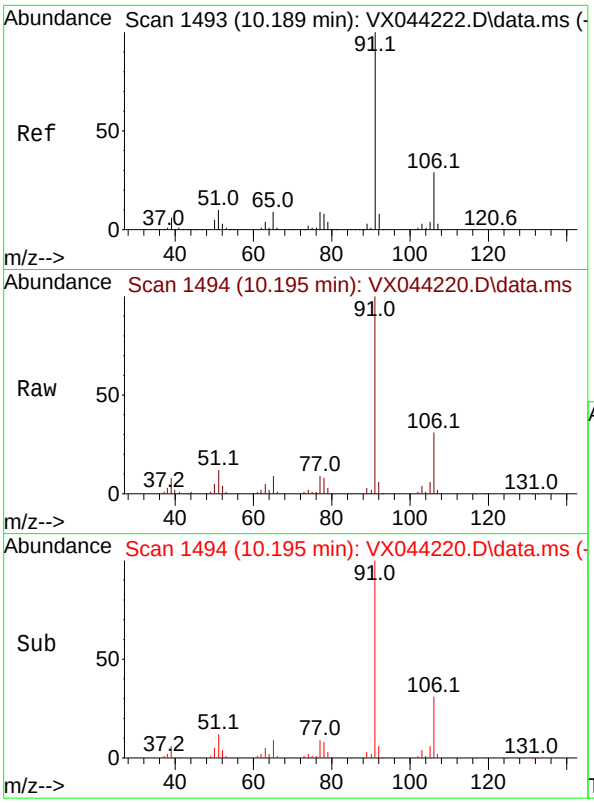


#66
1,1,1,2-Tetrachloroethane
Concen: 4.432 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:131 Resp: 6647

Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.3	141.8
119	70.8	31.6	95.0



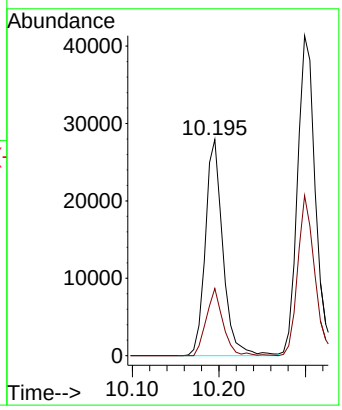


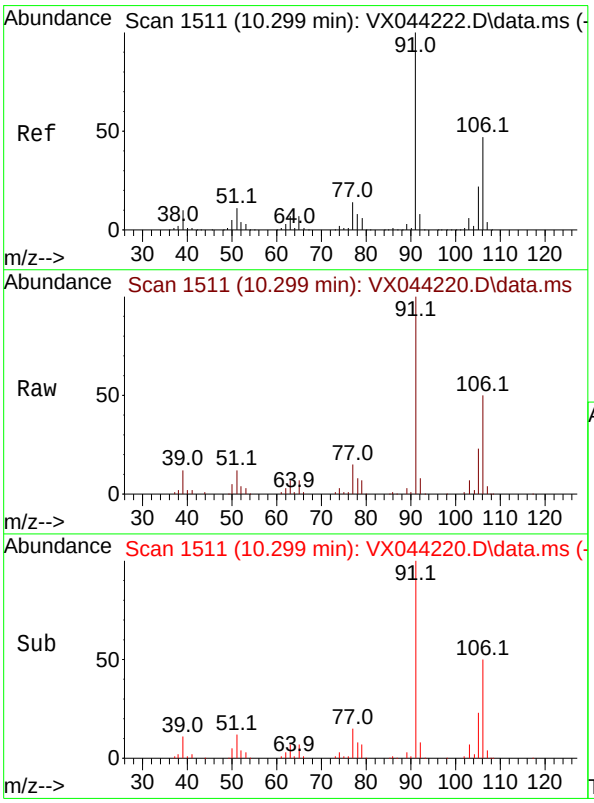
#67
Ethyl Benzene
Concen: 4.877 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 39326

Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.5	35.3

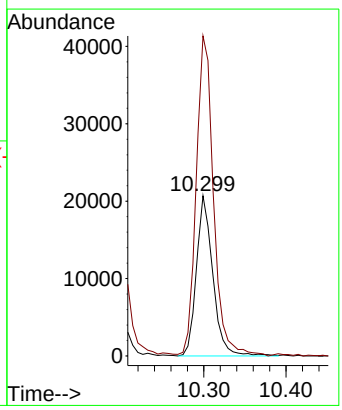


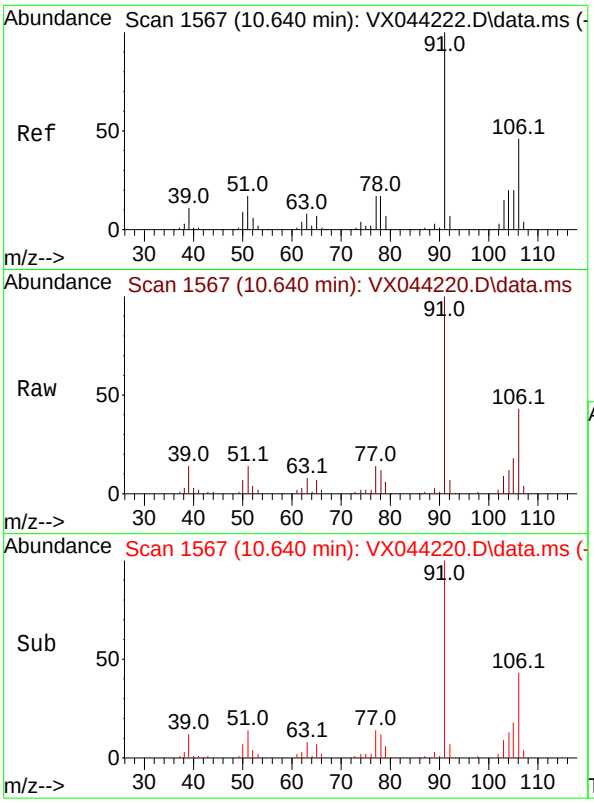


#68
m/p-Xylenes
Concen: 9.720 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:106 Resp: 28758

Ion	Ratio	Lower	Upper
106	100		
91	210.2	170.2	255.2



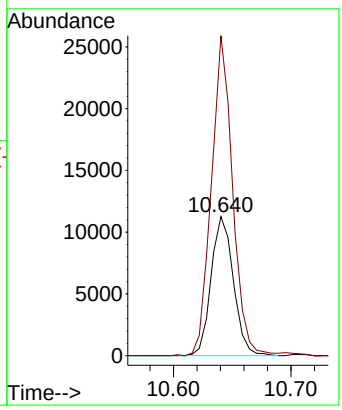


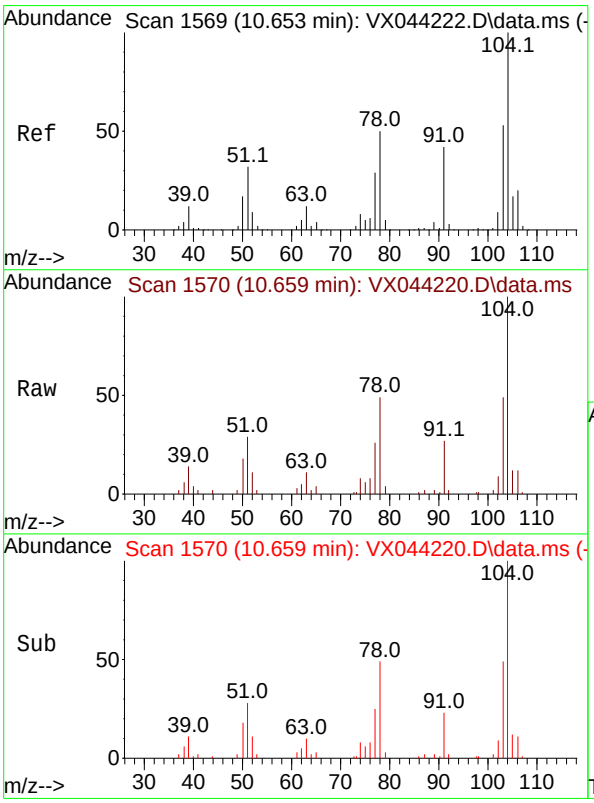
#69
o-Xylene
Concen: 4.965 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 14864

Ion	Ratio	Lower	Upper
106	100		
91	219.3	112.3	337.0

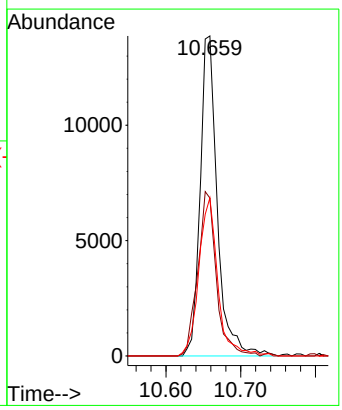


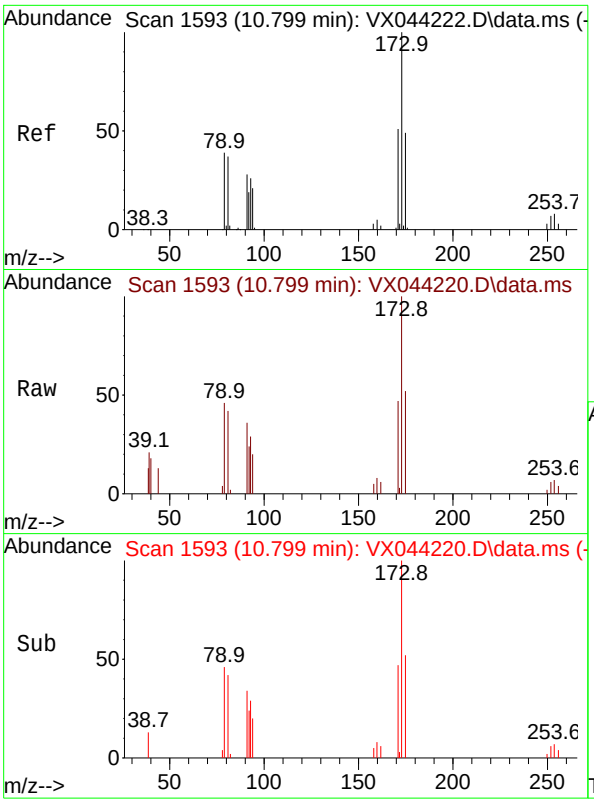


#70
Styrene
Concen: 4.624 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:104 Resp: 22191

Ion	Ratio	Lower	Upper
104	100		
78	55.5	44.6	67.0
103	54.6	45.4	68.0



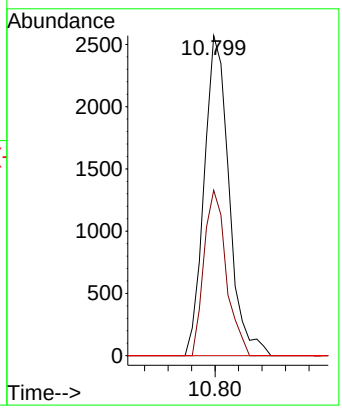


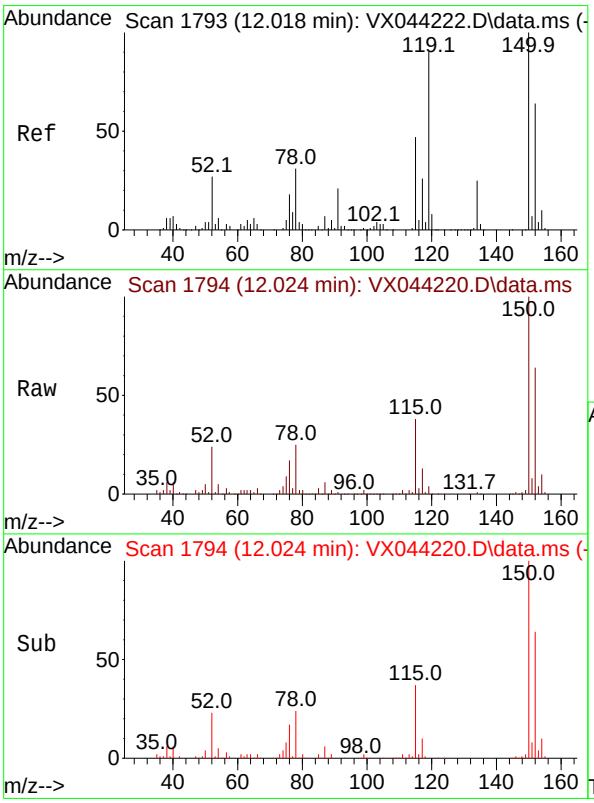
#71
Bromoform
Concen: 5.118 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 3775

Ion	Ratio	Lower	Upper
173	100		
175	46.3	23.8	71.4
254	0.0	0.0	0.0

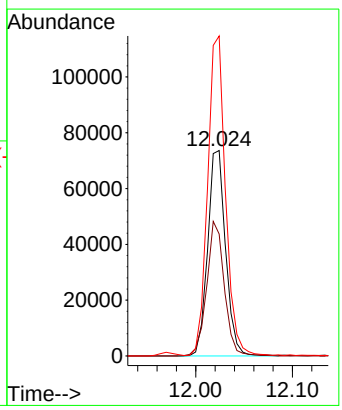


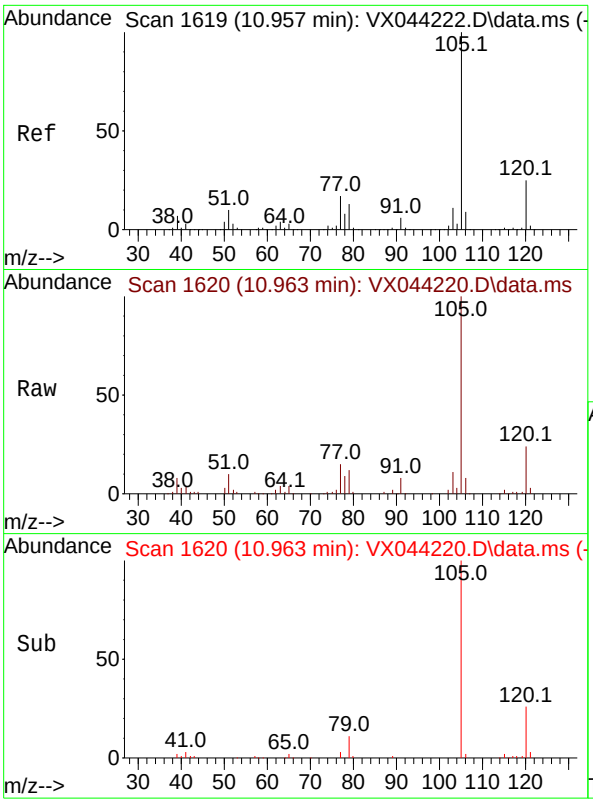


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:152 Resp: 95175

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.5	133.3
150	154.3	0.0	353.8



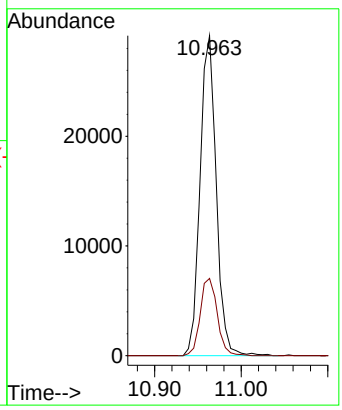


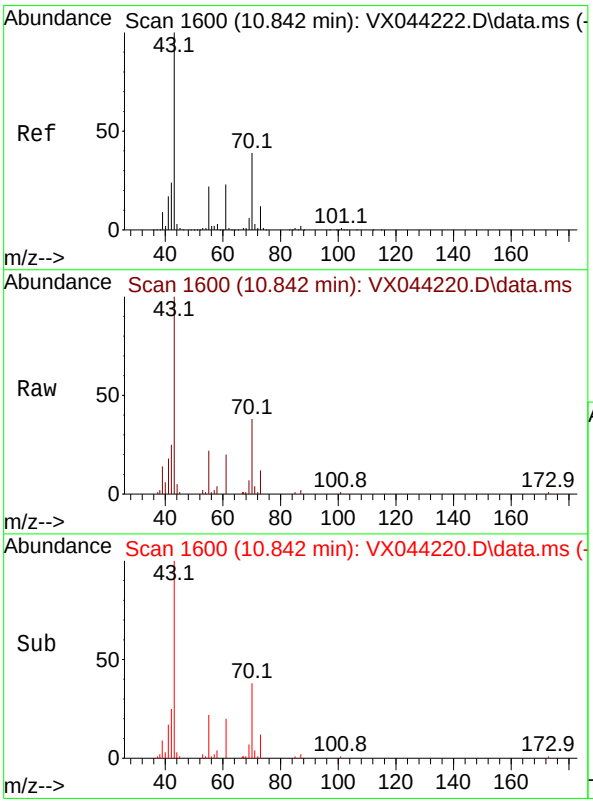
#73
Isopropylbenzene
Concen: 5.194 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 37843

Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.1	39.3

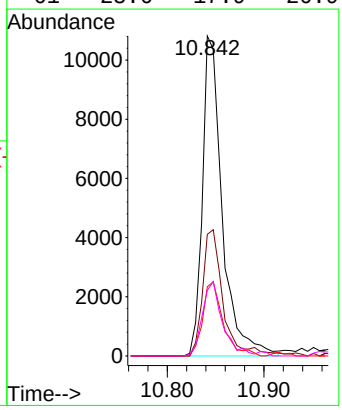


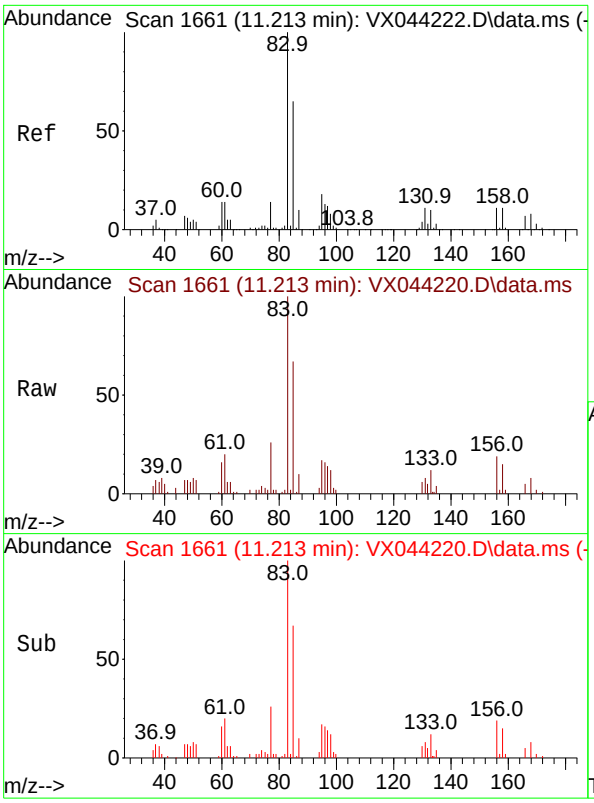


#74
N-amyl acetate
Concen: 4.579 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 43 Resp: 15418

Ion	Ratio	Lower	Upper
43	100		
70	41.2	31.9	47.9
55	23.7	17.9	26.9
61	23.6	17.9	26.9



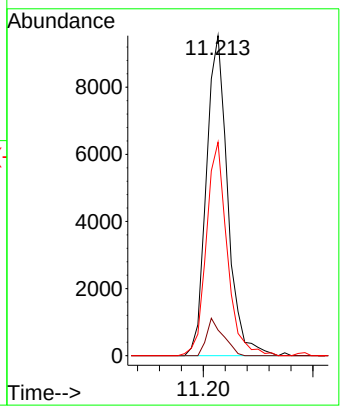


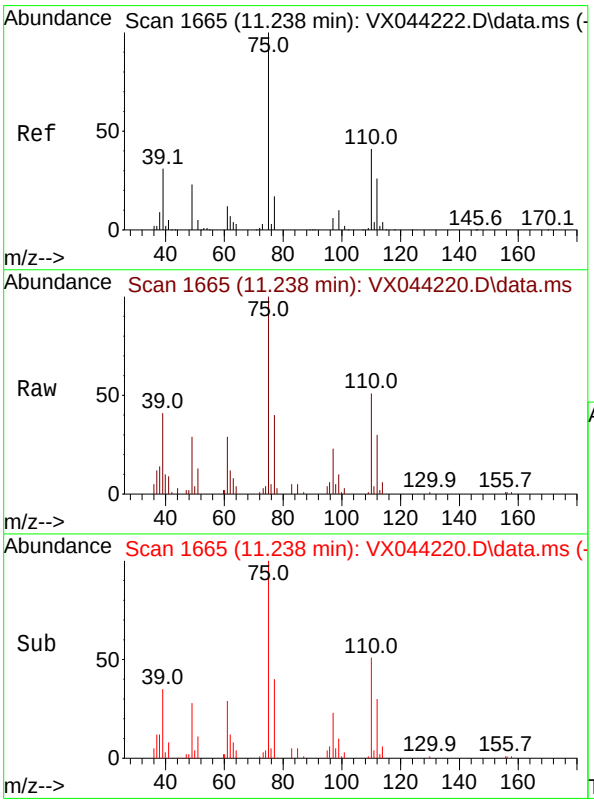
#75
1,1,2,2-Tetrachloroethane
Concen: 5.077 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 12848

Ion	Ratio	Lower	Upper
83	100		
131	9.1	5.1	15.4
85	65.3	32.5	97.4

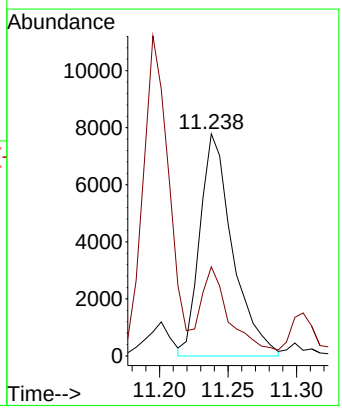


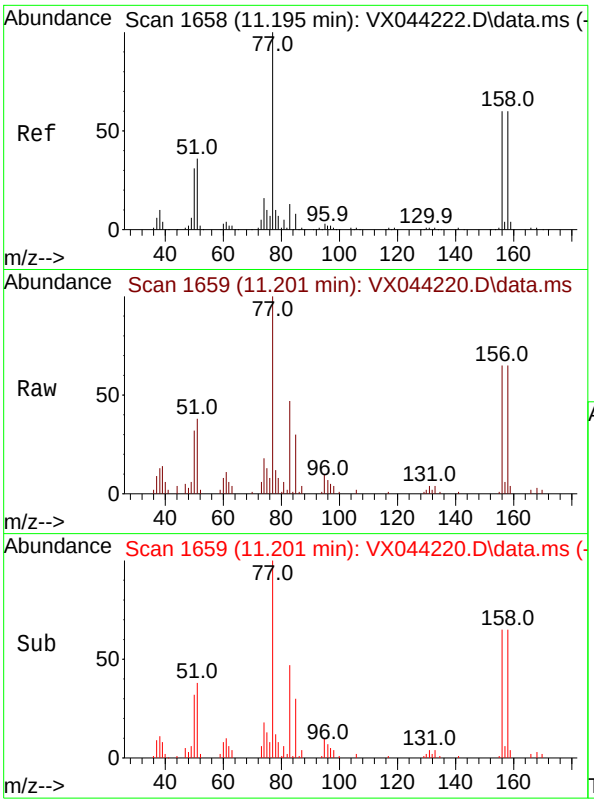


#76
1,2,3-Trichloropropane
Concen: 5.974 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 12901

Ion	Ratio	Lower	Upper
75	100		
77	36.0	20.9	62.7



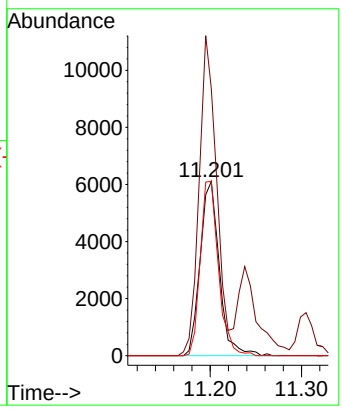


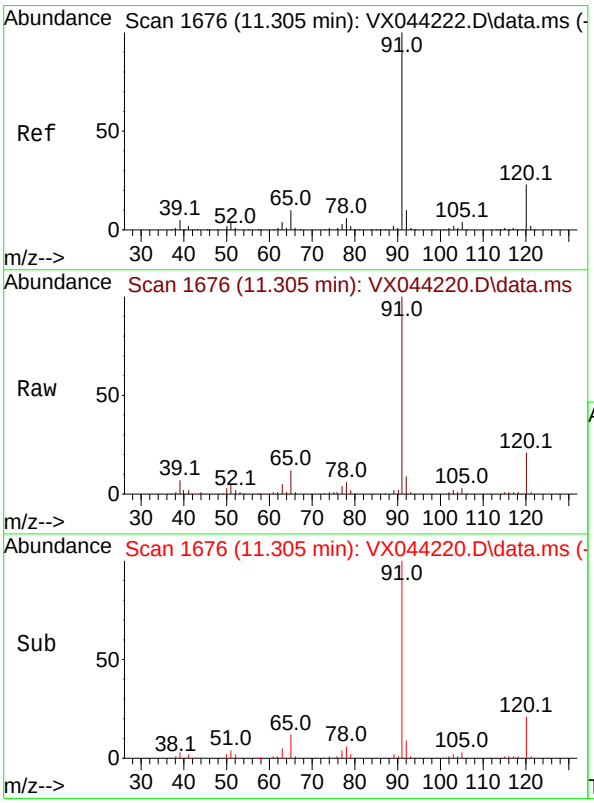
#77
Bromobenzene
Concen: 5.033 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 8892

Ion	Ratio	Lower	Upper
156	100		
77	165.4	82.6	247.8
158	94.7	48.8	146.4

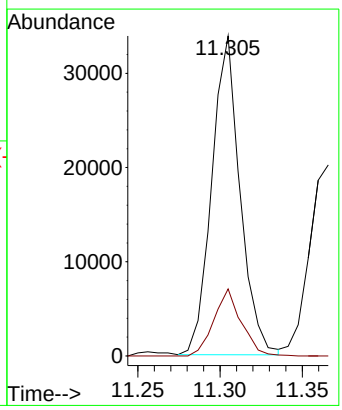


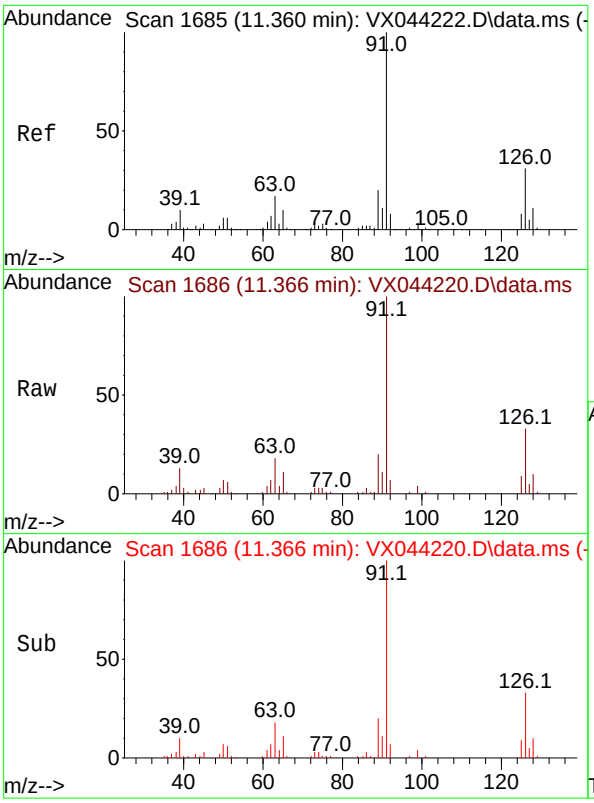


#78
n-propylbenzene
Concen: 5.038 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 40574

Ion	Ratio	Lower	Upper
91	100		
120	20.3	11.0	33.0



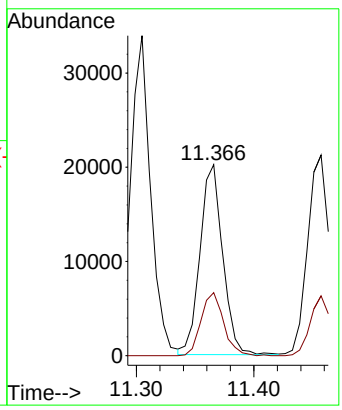


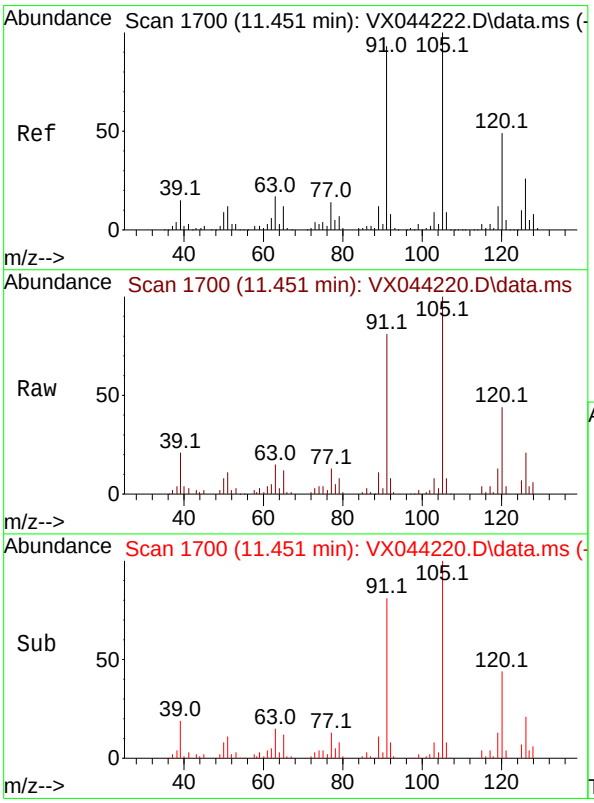
#79
2-Chlorotoluene
Concen: 5.203 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 27096

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.1

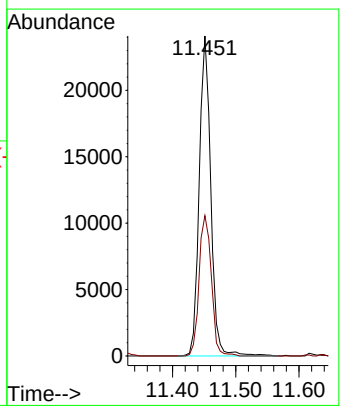


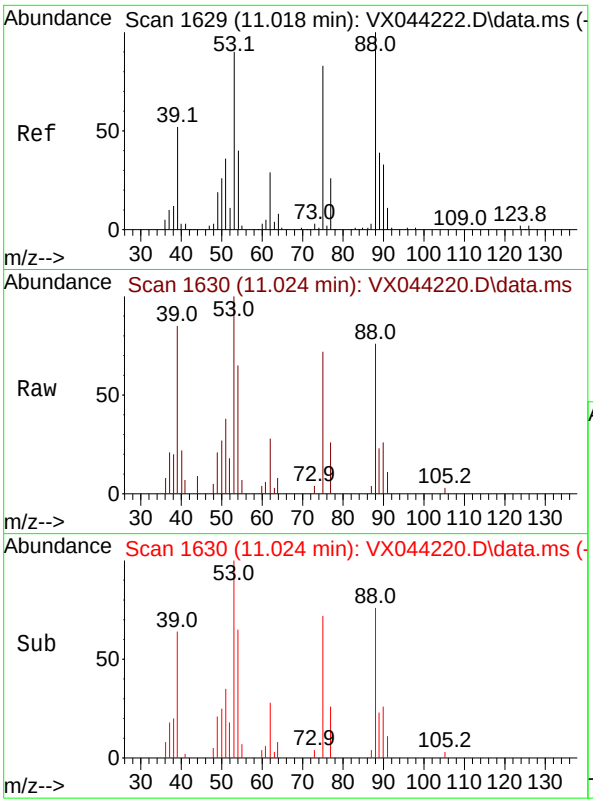


#80
1,3,5-Trimethylbenzene
Concen: 5.075 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 30665

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.8	71.4



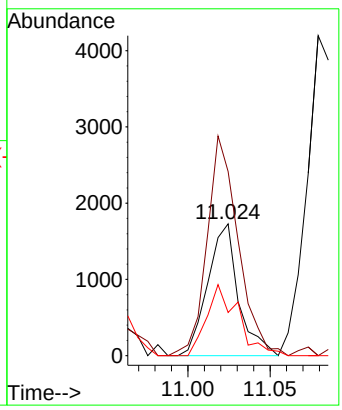


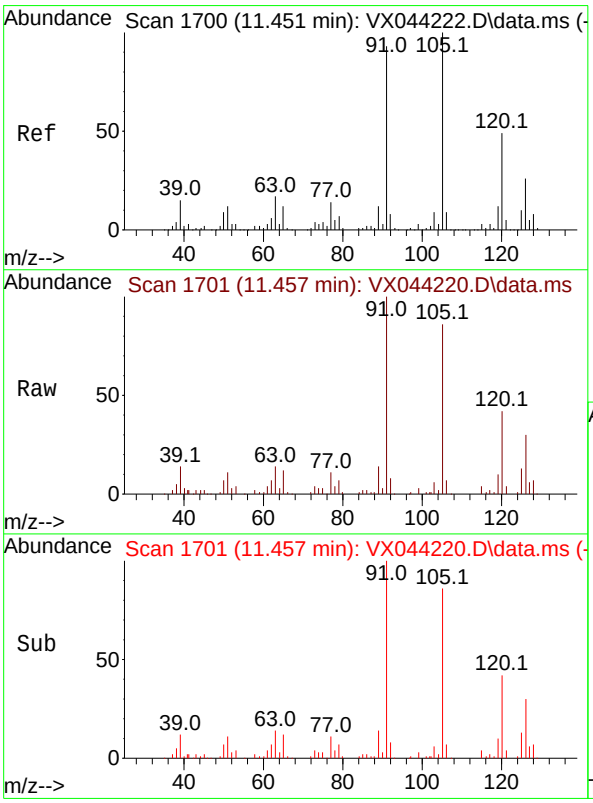
#81
trans-1,4-Dichloro-2-butene
Concen: 8.273 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 2249

Ion	Ratio	Lower	Upper
75	100		
53	168.9	93.6	140.4#
89	55.5	37.3	55.9

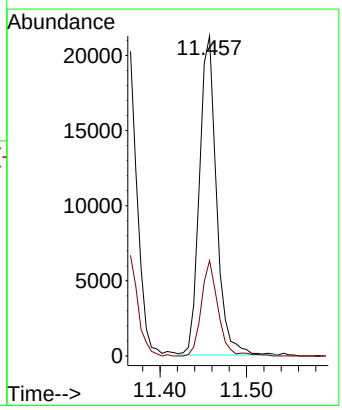


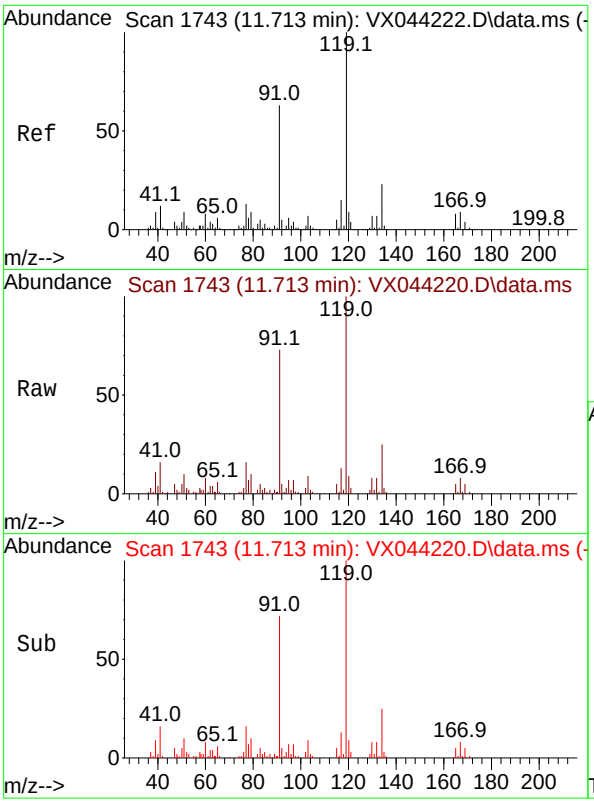


#82
4-Chlorotoluene
Concen: 5.035 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 91 Resp: 29039

Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.5	43.5



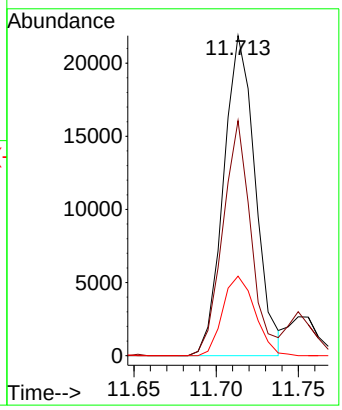


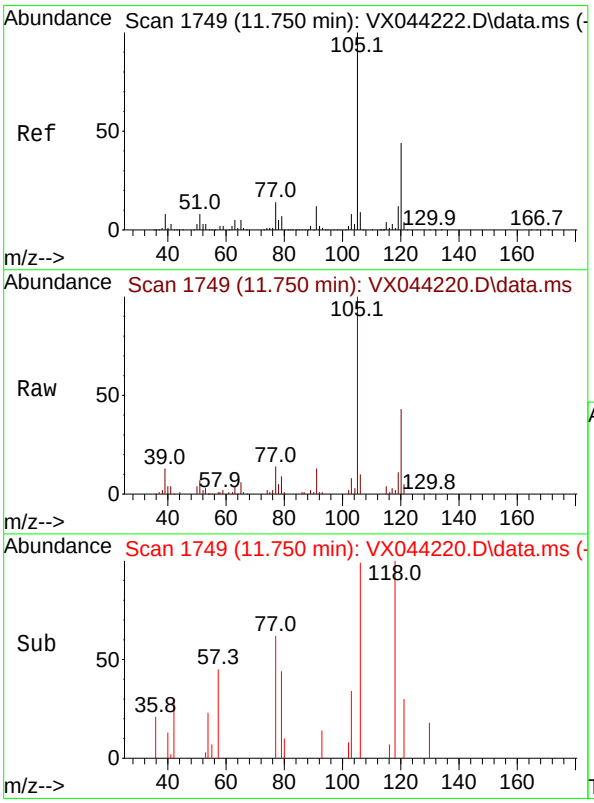
#83
tert-Butylbenzene
Concen: 4.904 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 29283

Ion	Ratio	Lower	Upper
119	100		
91	65.9	30.9	92.5
134	25.3	11.5	34.4

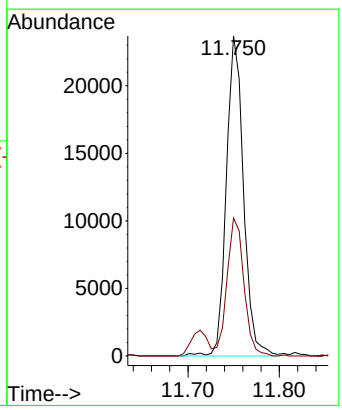


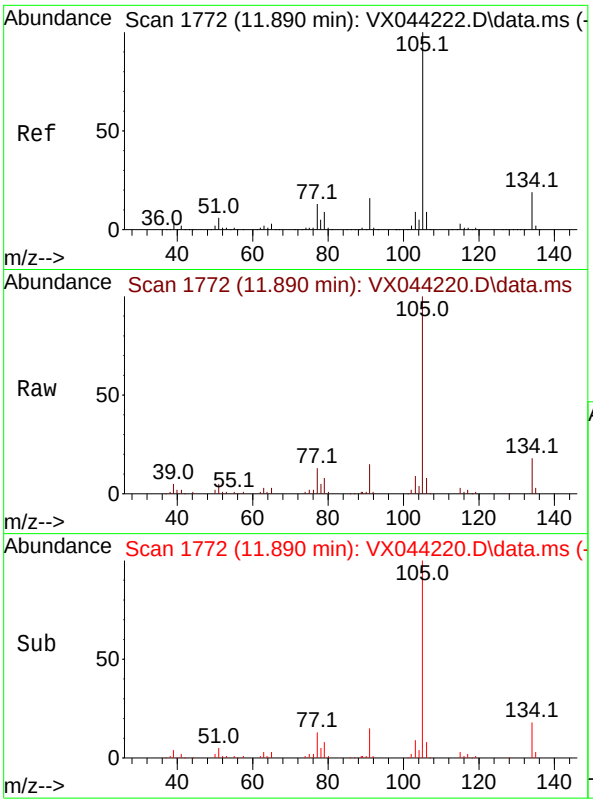


#84
1,2,4-Trimethylbenzene
Concen: 5.219 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:105 Resp: 30970

Ion	Ratio	Lower	Upper
105	100		
120	42.6	21.7	65.1



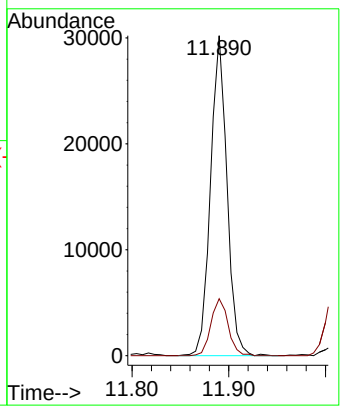


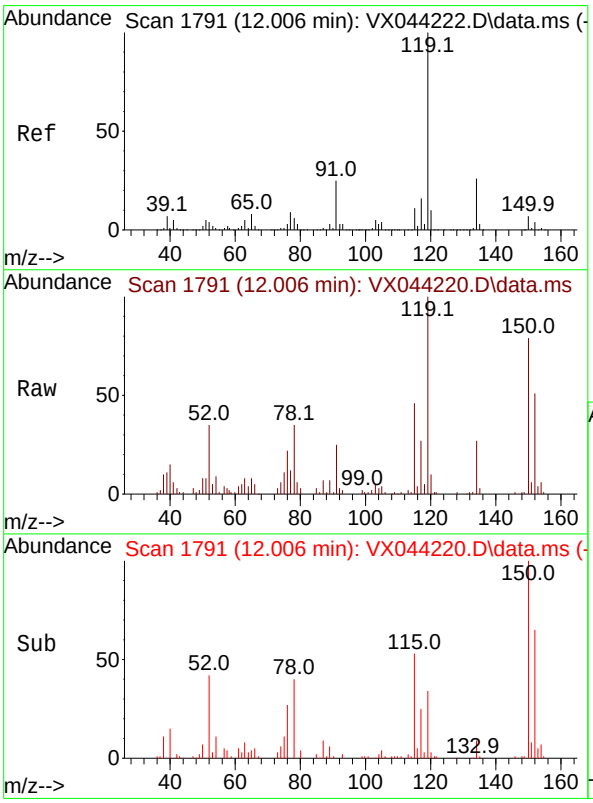
#85
sec-Butylbenzene
Concen: 4.921 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 35670

Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.8	29.4

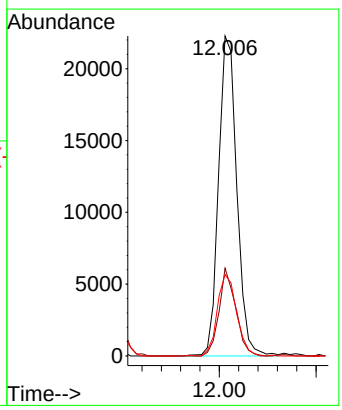


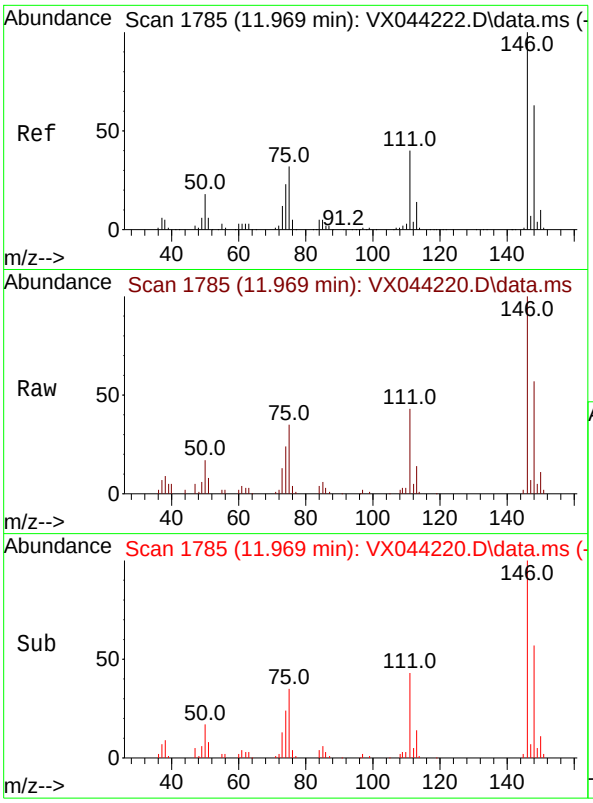


#86
p-Isopropyltoluene
Concen: 4.828 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:119 Resp: 29132

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.8	38.4
91	26.9	13.0	39.0



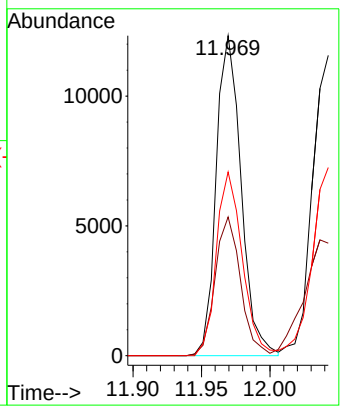


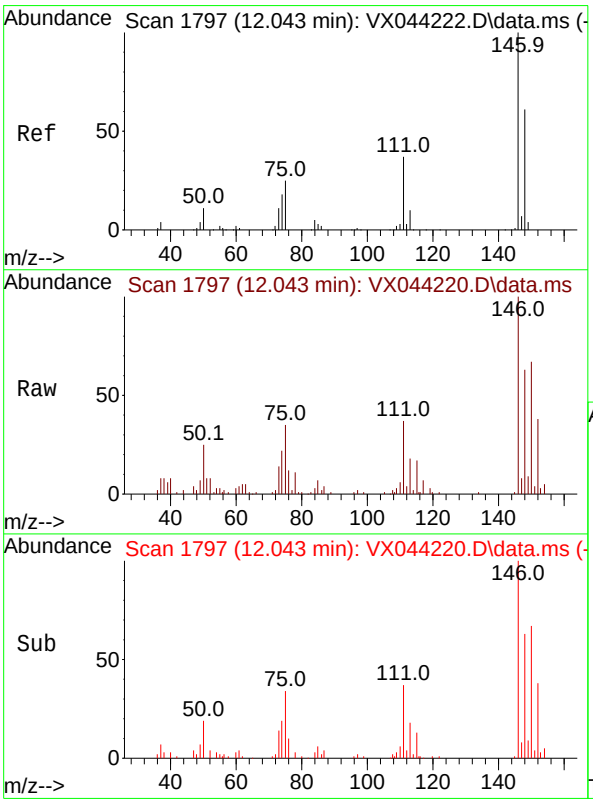
#87
1,3-Dichlorobenzene
Concen: 5.039 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 15553

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.4	64.2
148	60.1	31.7	95.1

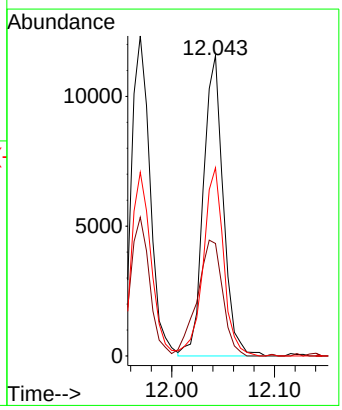


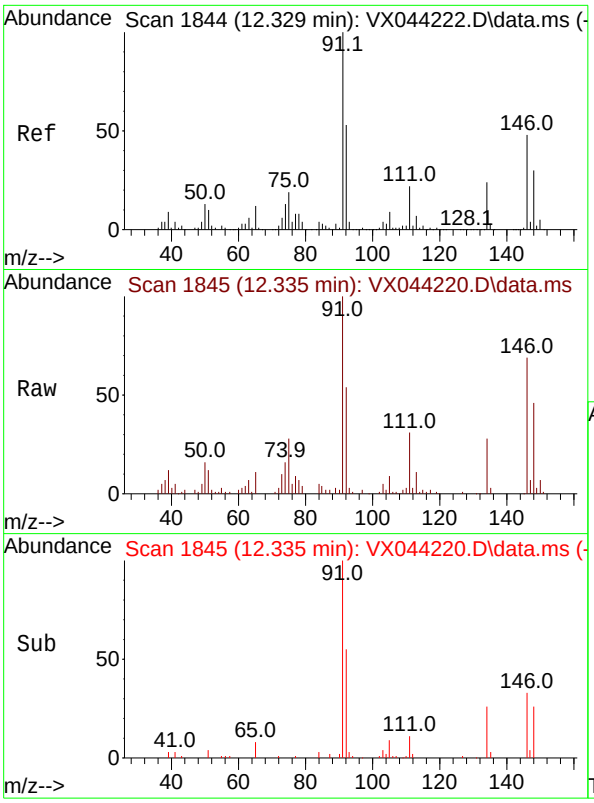


#88
1,4-Dichlorobenzene
Concen: 4.920 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:146 Resp: 15609

Ion	Ratio	Lower	Upper
146	100		
111	49.5	21.0	63.0
148	64.1	32.3	96.8



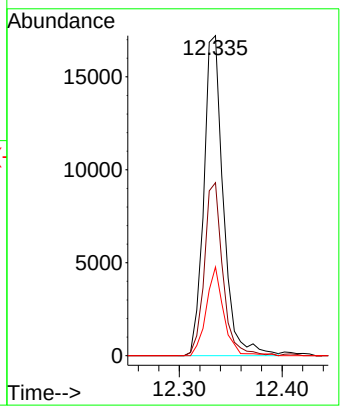


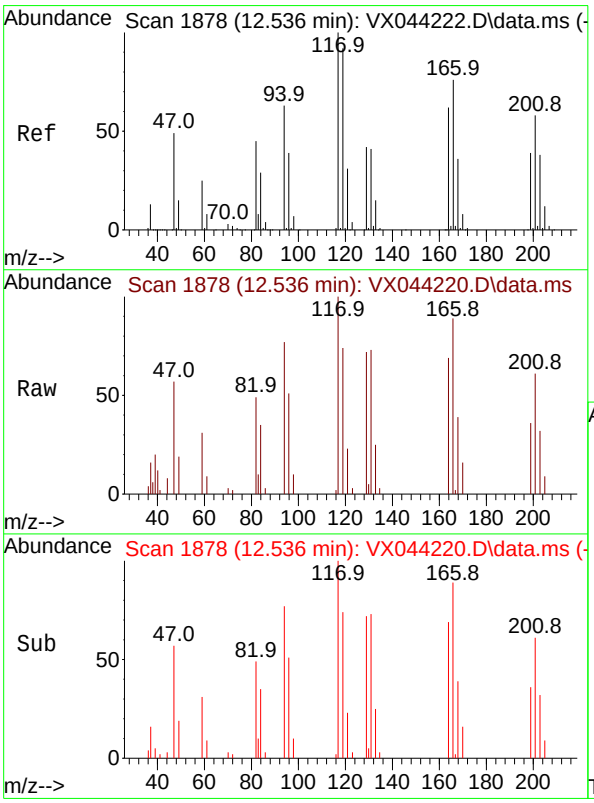
#89
n-Butylbenzene
Concen: 4.478 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 22719

Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.6	79.7
134	24.9	12.6	37.8

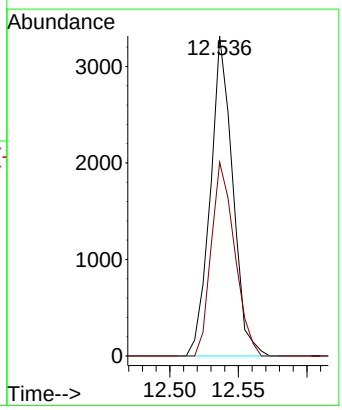


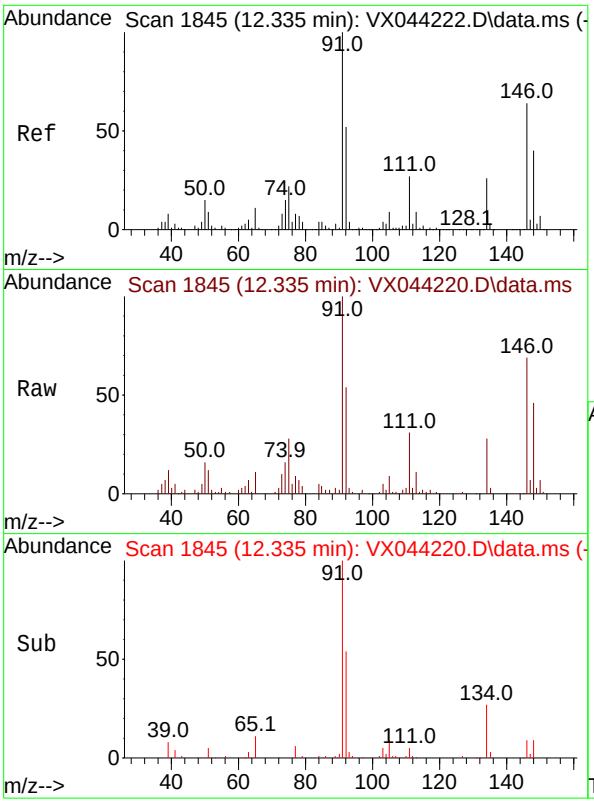


#90
Hexachloroethane
Concen: 4.275 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:117 Resp: 3765

Ion	Ratio	Lower	Upper
117	100		
201	63.5	31.4	94.2



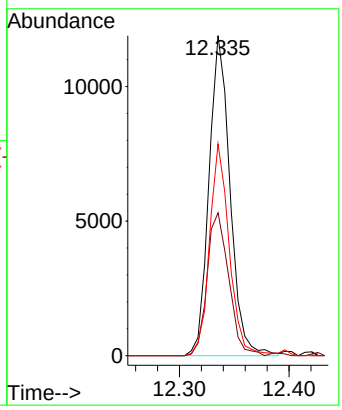


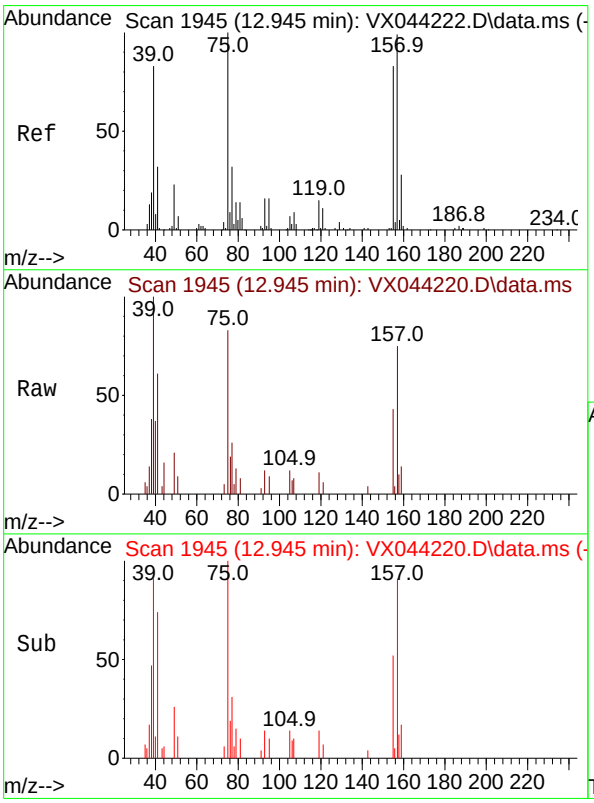
#91
1,2-Dichlorobenzene
Concen: 4.949 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 15858

Ion	Ratio	Lower	Upper
146	100		
111	45.8	21.4	64.3
148	62.1	31.6	95.0

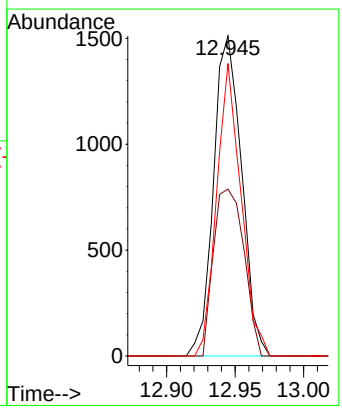


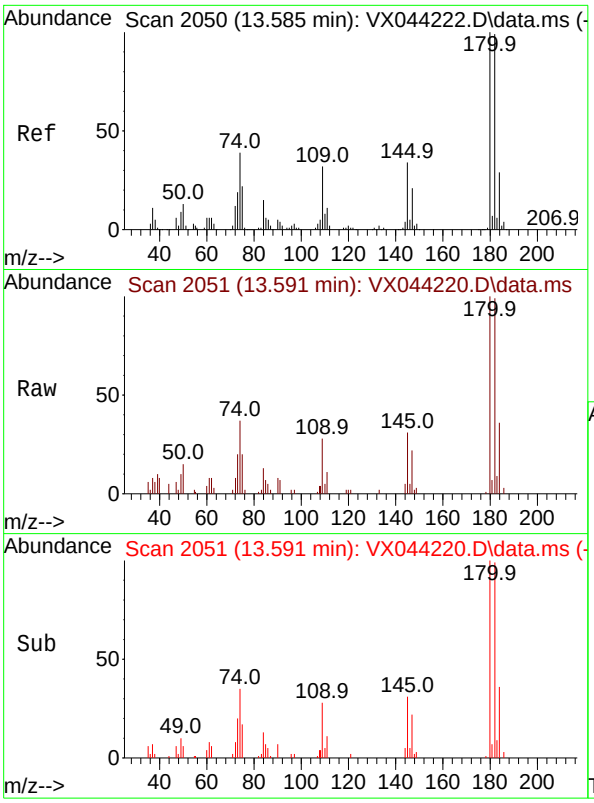


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.385 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion: 75 Resp: 2154

Ion	Ratio	Lower	Upper
75	100		
155	56.5	38.1	114.3
157	79.4	47.2	141.6



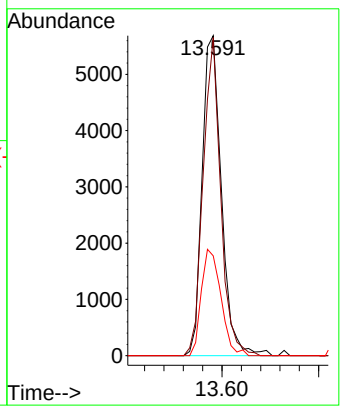


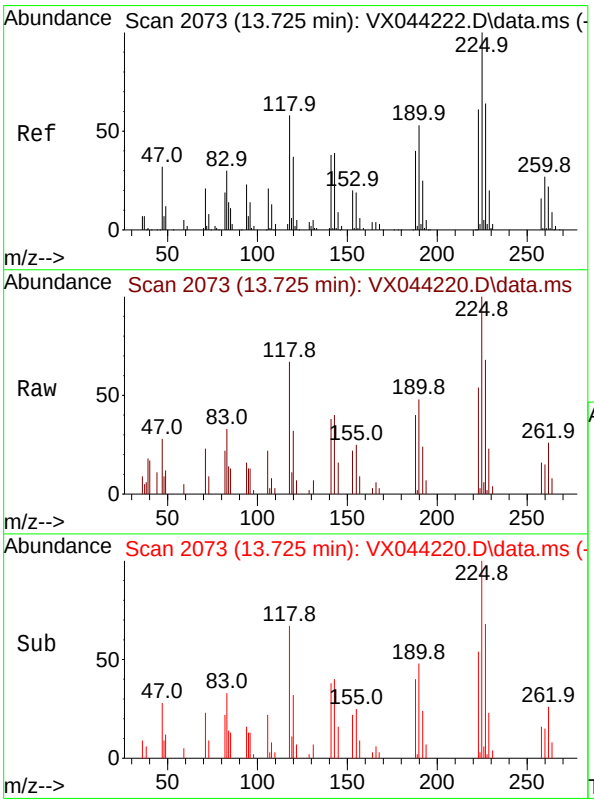
#93
1,2,4-Trichlorobenzene
Concen: 4.478 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 7867

Ion	Ratio	Lower	Upper
180	100		
182	90.8	48.0	144.2
145	33.9	16.6	49.7

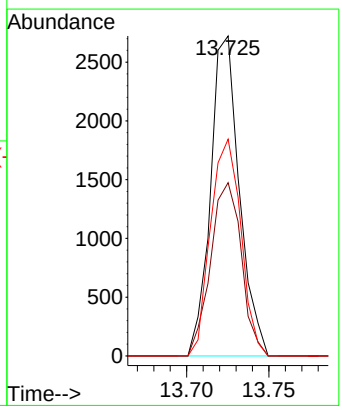


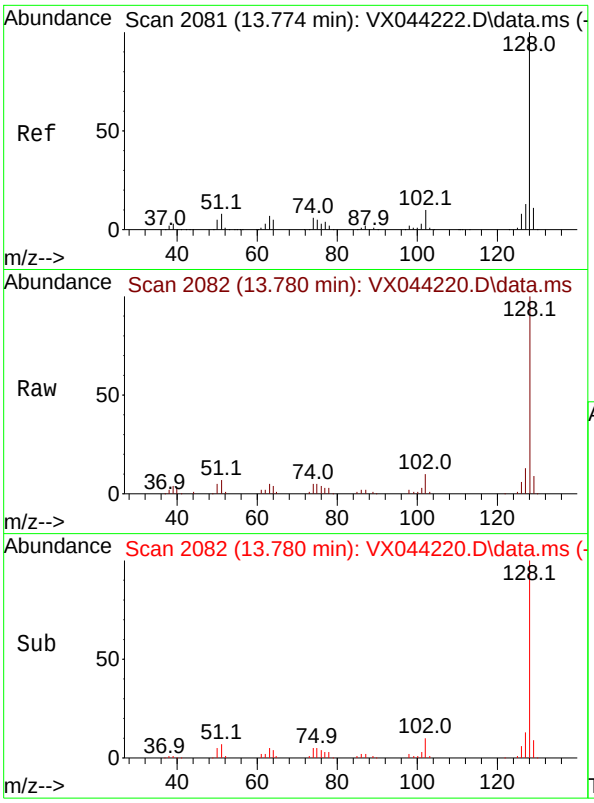


#94
Hexachlorobutadiene
Concen: 4.700 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:225 Resp: 3321

Ion	Ratio	Lower	Upper
225	100		
223	57.9	30.8	92.4
227	71.2	32.1	96.3



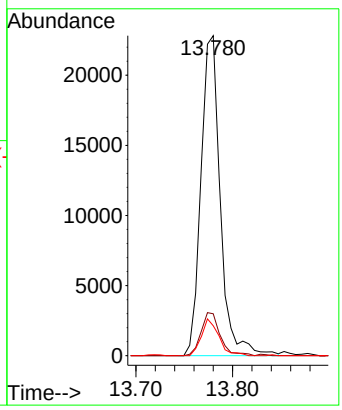


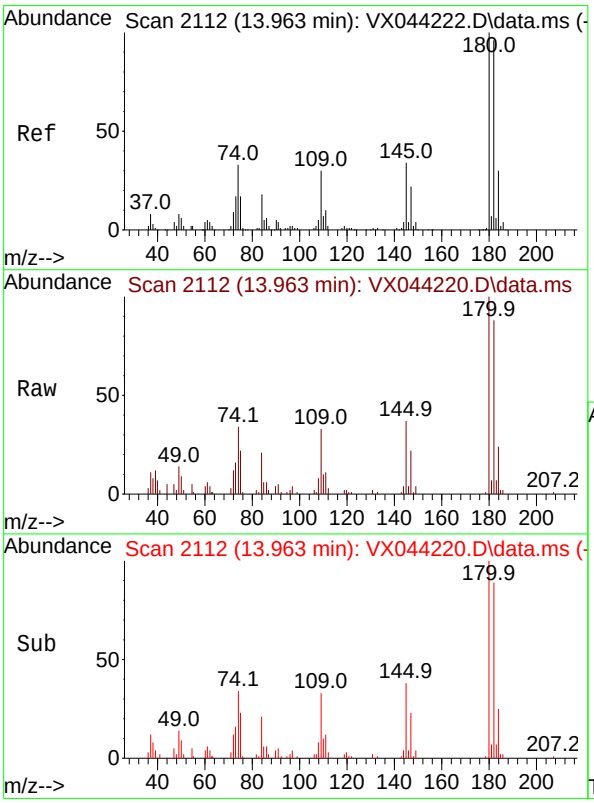
#95
Naphthalene
Concen: 4.643 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 31842

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.3	9.0	13.4

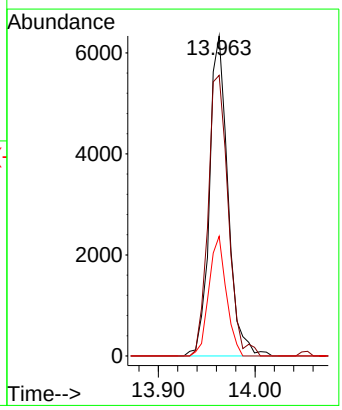




#96
1,2,3-Trichlorobenzene
Concen: 4.520 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044220.D
Acq: 11 Dec 2024 11:27

Tgt Ion:180 Resp: 8422

Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.0	144.0
145	35.2	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	134436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	254199	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	218148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	98180	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	41821	17.743	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	35.480%#		
35) Dibromofluoromethane	5.391	113	30304	17.213	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	34.420%#		
50) Toluene-d8	8.647	98	102660	17.284	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	34.560%#		
62) 4-Bromofluorobenzene	11.079	95	35645	17.175	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	34.340%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	38748	18.640	ug/l	90
3) Chloromethane	1.294	50	39546	19.894	ug/l	100
4) Vinyl Chloride	1.374	62	42048	20.304	ug/l	97
5) Bromomethane	1.593	94	27604	18.789	ug/l	94
6) Chloroethane	1.666	64	27673	21.460	ug/l	94
7) Trichlorofluoromethane	1.867	101	81398	20.077	ug/l	99
8) Diethyl Ether	2.136	74	25884	18.704	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	31846	19.412	ug/l	99
10) Methyl Iodide	2.441	142	42786	19.788	ug/l	99
11) Tert butyl alcohol	3.001	59	32189	97.050	ug/l	99
12) 1,1-Dichloroethene	2.306	96	29241	19.405	ug/l	92
13) Acrolein	2.239	56	43909	91.311	ug/l	97
14) Allyl chloride	2.654	41	47218	18.813	ug/l	98
15) Acrylonitrile	3.068	53	89249	96.988	ug/l	99
16) Acetone	2.392	43	88985	92.601	ug/l	95
17) Carbon Disulfide	2.502	76	50399	17.595	ug/l	98
18) Methyl Acetate	2.709	43	47509	19.175	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	114371	19.450	ug/l	100
20) Methylene Chloride	2.782	84	35820	19.846	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	31036	19.380	ug/l	97
22) Diisopropyl ether	3.764	45	112511	19.907	ug/l	94
23) Vinyl Acetate	3.721	43	465716	101.354	ug/l	100
24) 1,1-Dichloroethane	3.605	63	62059	19.699	ug/l	98
25) 2-Butanone	4.568	43	136992	100.277	ug/l	99
26) 2,2-Dichloropropane	4.471	77	51431	20.095	ug/l #	74
27) cis-1,2-Dichloroethene	4.477	96	39161	19.254	ug/l	99
28) Bromochloromethane	4.891	49	30977	20.052	ug/l	95
29) Tetrahydrofuran	5.013	42	86235	98.343	ug/l	99
30) Chloroform	5.093	83	68410	19.327	ug/l	97
31) Cyclohexane	5.458	56	51773	20.351	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	57900	19.706	ug/l	99
36) 1,1-Dichloropropene	5.690	75	42878	18.841	ug/l	99
37) Ethyl Acetate	4.727	43	56019	19.913	ug/l	99
38) Carbon Tetrachloride	5.672	117	43901	17.918	ug/l	92
39) Methylcyclohexane	7.379	83	53536	19.678	ug/l	97
40) Benzene	6.031	78	135467	19.606	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	28523	19.095	ug/l		94
42) 1,2-Dichloroethane	6.086	62	55377	19.456	ug/l		98
43) Isopropyl Acetate	6.342	43	84866	19.301	ug/l		100
44) Trichloroethene	7.123	130	32995	19.149	ug/l		96
45) 1,2-Dichloropropane	7.427	63	33585	19.025	ug/l		97
46) Dibromomethane	7.580	93	26293	19.199	ug/l		99
47) Bromodichloromethane	7.818	83	44312	18.735	ug/l		99
48) Methyl methacrylate	7.696	41	40620	19.032	ug/l		98
49) 1,4-Dioxane	7.671	88	9801	268.697	ug/l	#	71
51) 4-Methyl-2-Pentanone	8.574	43	278267	98.429	ug/l		100
52) Toluene	8.714	92	82934	19.113	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	44614	18.785	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	49596	19.258	ug/l		91
55) 1,1,2-Trichloroethane	9.147	97	34013	19.732	ug/l		98
56) Ethyl methacrylate	9.116	69	52571	19.318	ug/l		99
57) 1,3-Dichloropropane	9.305	76	59489	19.827	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	129900	94.642	ug/l		100
59) 2-Hexanone	9.433	43	207578	101.440	ug/l		99
60) Dibromochloromethane	9.519	129	31066	18.318	ug/l		97
61) 1,2-Dibromoethane	9.610	107	34978	19.935	ug/l		98
64) Tetrachloroethene	9.275	164	27702	19.133	ug/l		97
65) Chlorobenzene	10.079	112	90631	19.389	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	29132	19.392	ug/l		99
67) Ethyl Benzene	10.195	91	158455	19.619	ug/l		98
68) m/p-Xylenes	10.299	106	116126	39.183	ug/l		98
69) o-Xylene	10.640	106	59787	19.938	ug/l		99
70) Styrene	10.653	104	95883	19.946	ug/l		98
71) Bromoform	10.799	173	16924	18.112	ug/l	#	96
73) Isopropylbenzene	10.963	105	153935	20.481	ug/l		98
74) N-amyl acetate	10.842	43	69643	20.049	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	52312	20.039	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	55384	24.859	ug/l		86
77) Bromobenzene	11.195	156	34951	19.176	ug/l		98
78) n-propylbenzene	11.305	91	169622	20.419	ug/l		100
79) 2-Chlorotoluene	11.366	91	106310	19.788	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	126626	20.315	ug/l		97
81) trans-1,4-Dichloro-2-b...	11.018	75	11784	19.264	ug/l		90
82) 4-Chlorotoluene	11.451	91	118309	19.886	ug/l		100
83) tert-Butylbenzene	11.713	119	121929	19.794	ug/l		95
84) 1,2,4-Trimethylbenzene	11.750	105	125939	20.574	ug/l		99
85) sec-Butylbenzene	11.890	105	150795	20.165	ug/l		99
86) p-Isopropyltoluene	12.006	119	127790	20.532	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	64399	20.228	ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	64106	19.588	ug/l		99
89) n-Butylbenzene	12.329	91	104410	19.950	ug/l		99
90) Hexachloroethane	12.536	117	15939	17.543	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	65511	19.817	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9468	18.683	ug/l		97
93) 1,2,4-Trichlorobenzene	13.591	180	35001	19.313	ug/l		99
94) Hexachlorobutadiene	13.725	225	14415	19.774	ug/l		97
95) Naphthalene	13.774	128	142515	20.146	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	38639	20.101	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

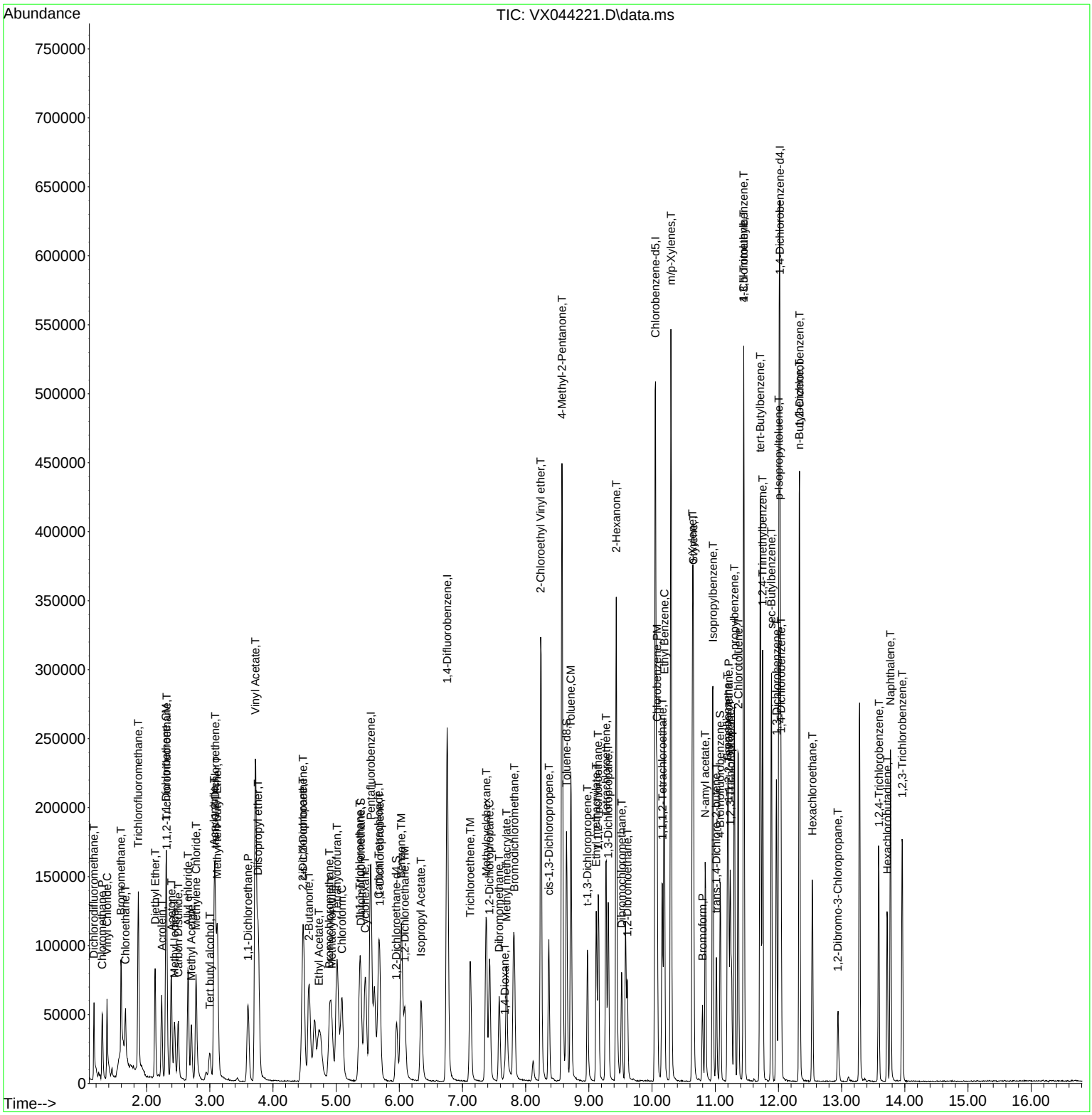
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

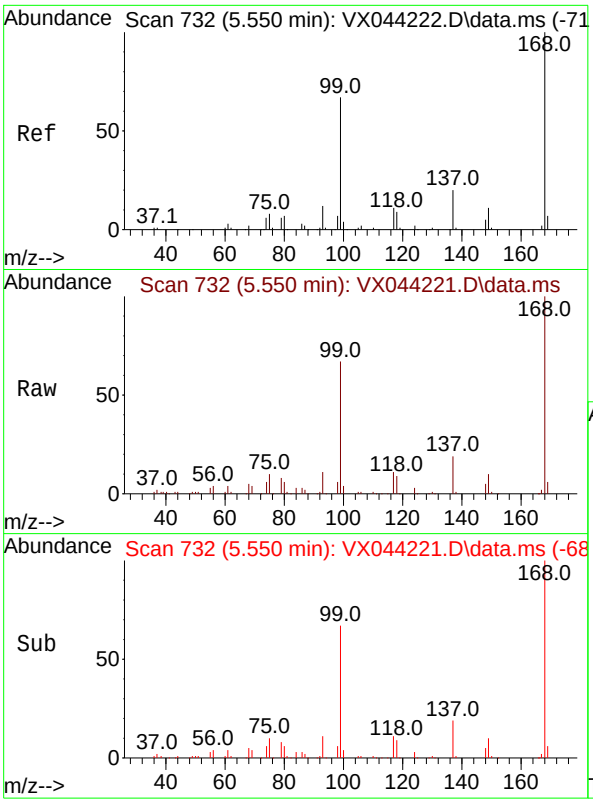
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044221.D
Acq On : 11 Dec 2024 11:50
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Dec 12 04:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



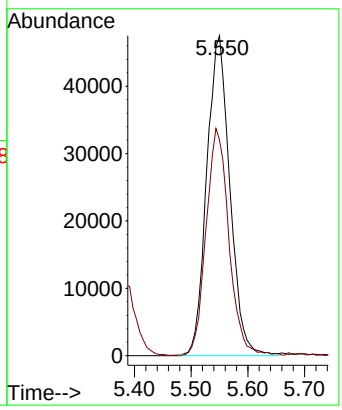


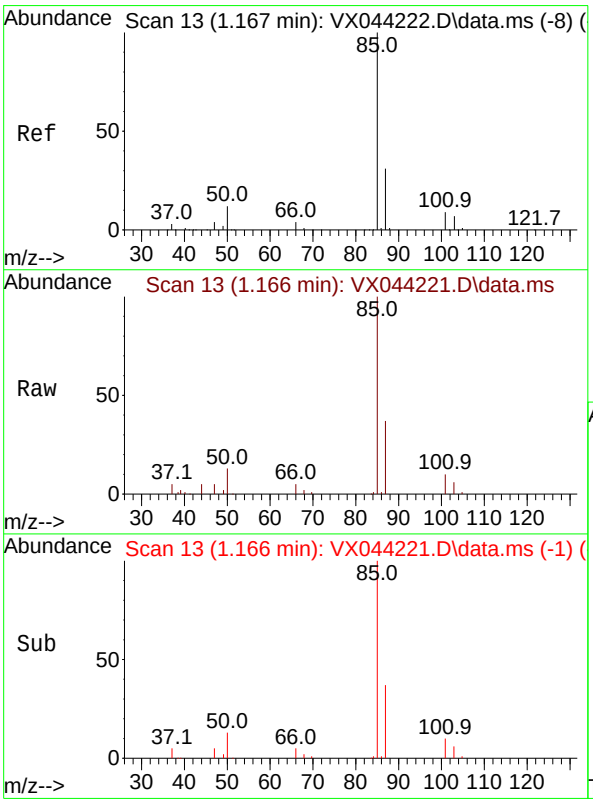
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 134436

Ion	Ratio	Lower	Upper
168	100		
99	67.2	53.4	80.0

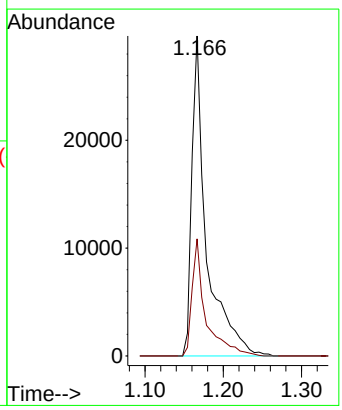


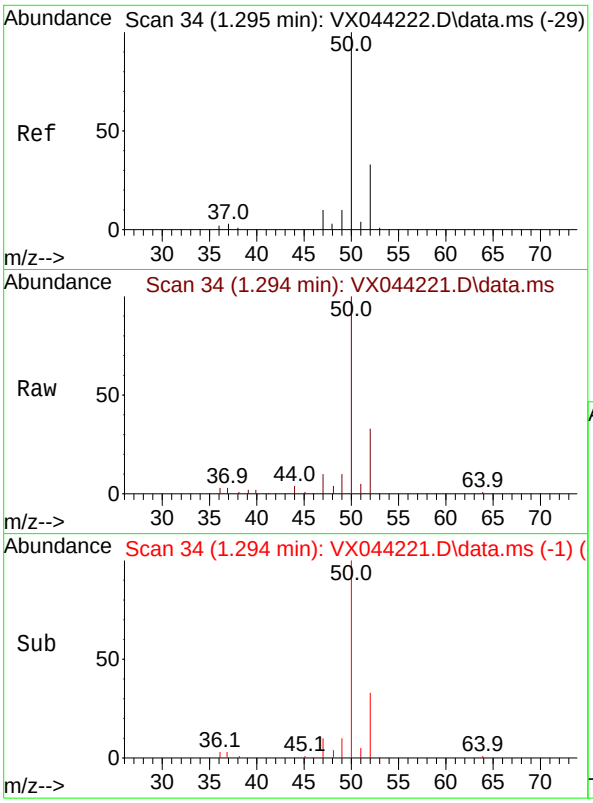


#2
Dichlorodifluoromethane
Concen: 18.640 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 85 Resp: 38748

Ion	Ratio	Lower	Upper
85	100		
87	36.6	15.4	46.4



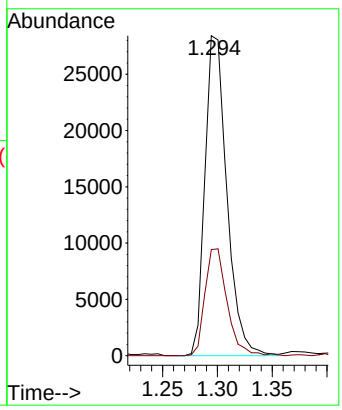


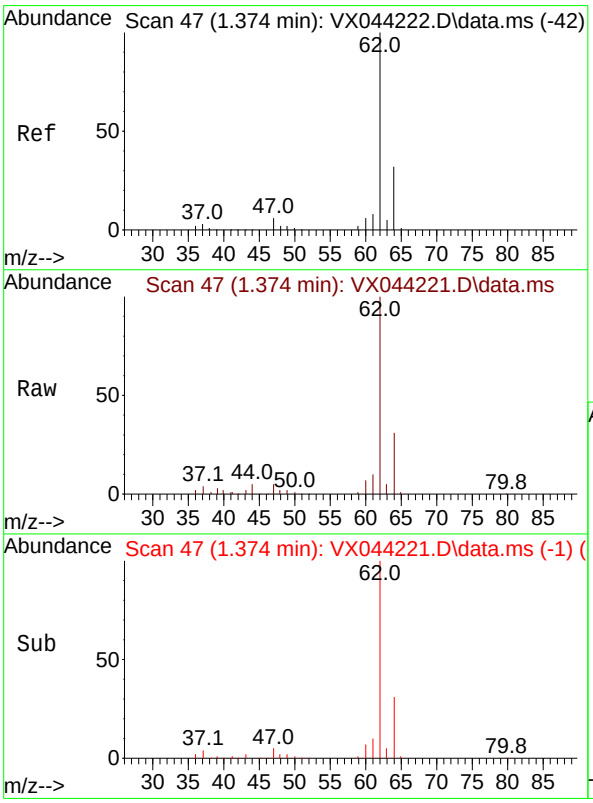
#3
Chloromethane
Concen: 19.894 ug/l
RT: 1.294 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 39546

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7

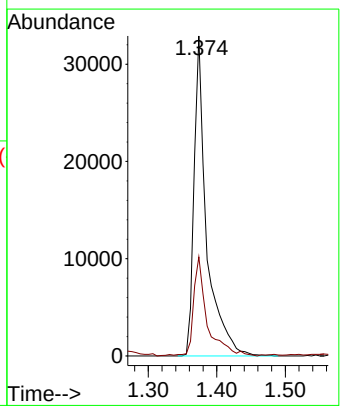


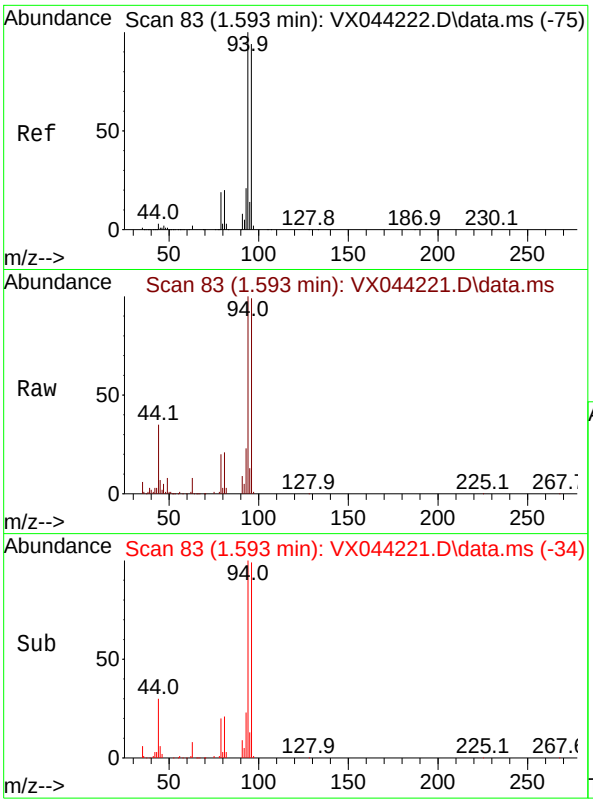


#4
Vinyl Chloride
Concen: 20.304 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 42048

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.7	38.5



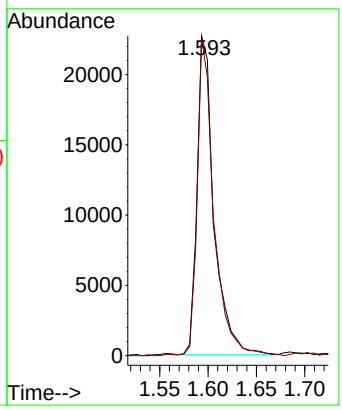


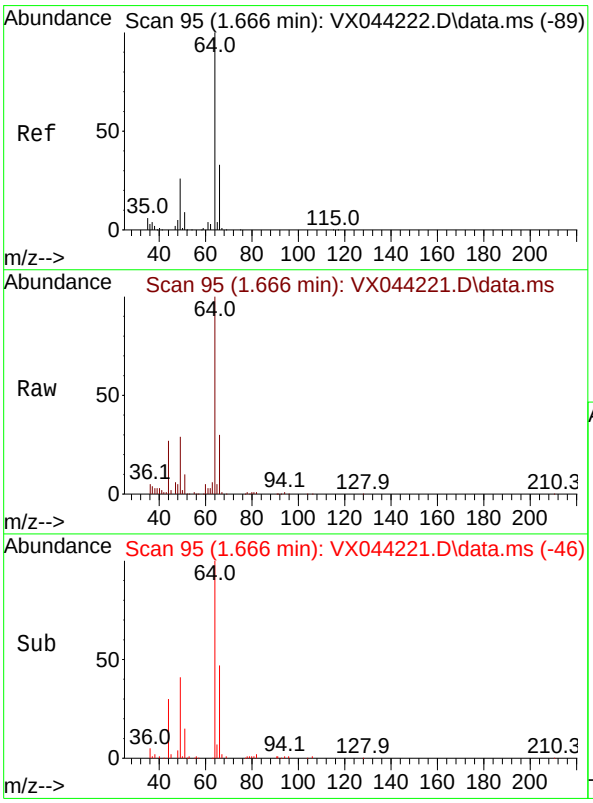
#5
Bromomethane
Concen: 18.789 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 27604

Ion	Ratio	Lower	Upper
94	100		
96	99.2	74.9	112.3

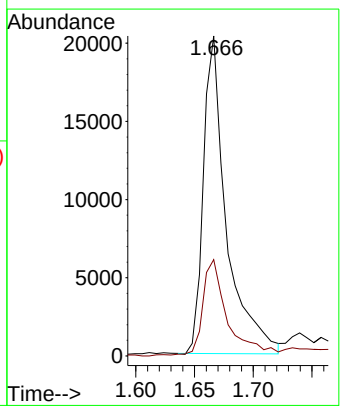


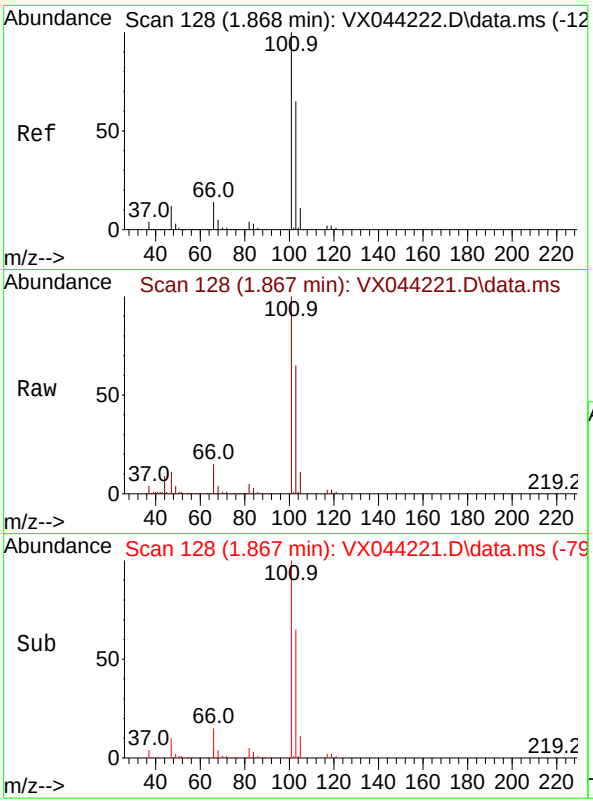


#6
Chloroethane
Concen: 21.460 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 64 Resp: 27673

Ion	Ratio	Lower	Upper
64	100		
66	29.8	26.6	39.8



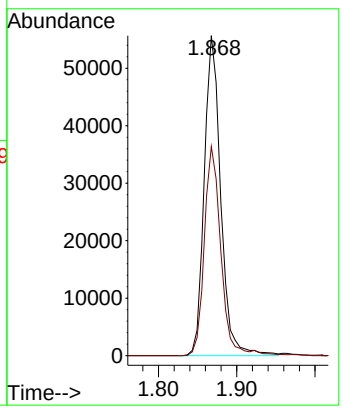


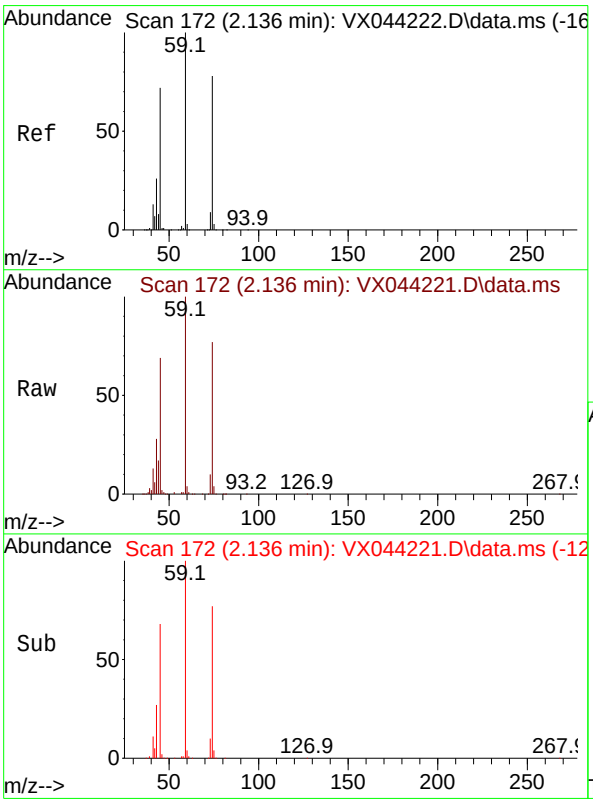
#7
Trichlorofluoromethane
Concen: 20.077 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 81398

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8

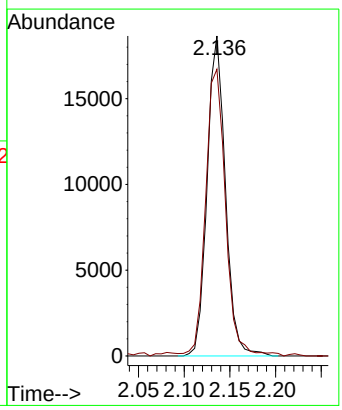


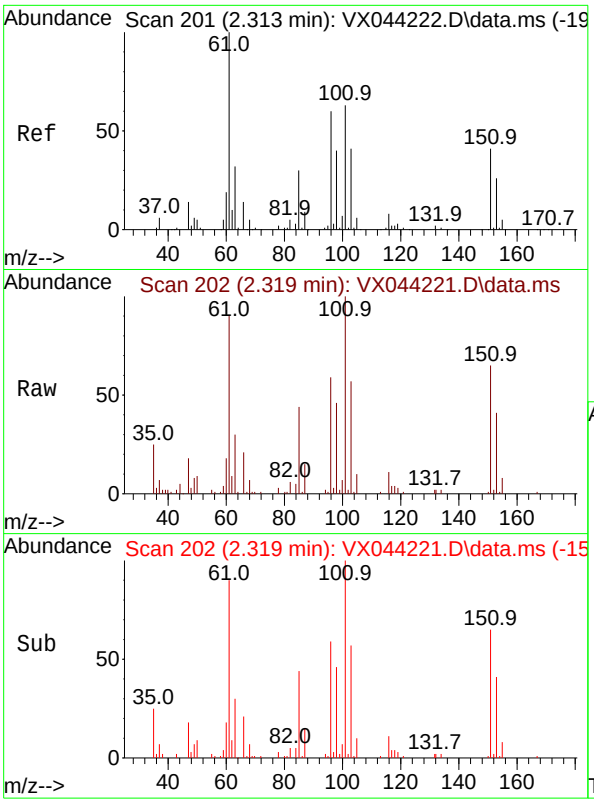


#8
Diethyl Ether
Concen: 18.704 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 74 Resp: 25884

Ion	Ratio	Lower	Upper
74	100		
45	97.8	48.4	145.0



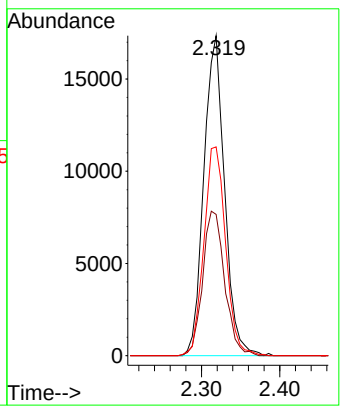


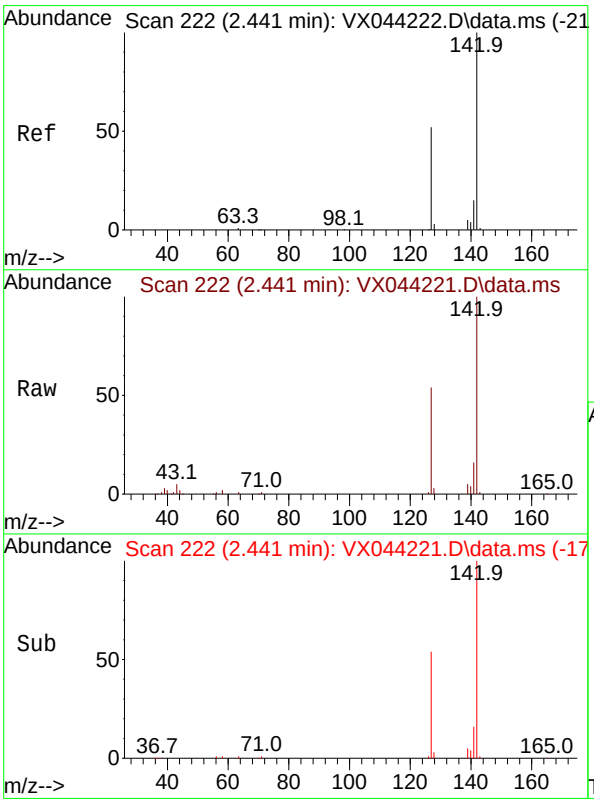
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.412 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 31846

Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.5	57.7
151	68.6	55.8	83.6

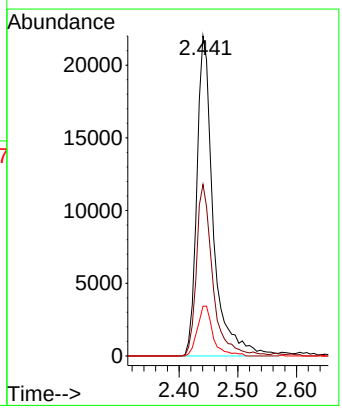


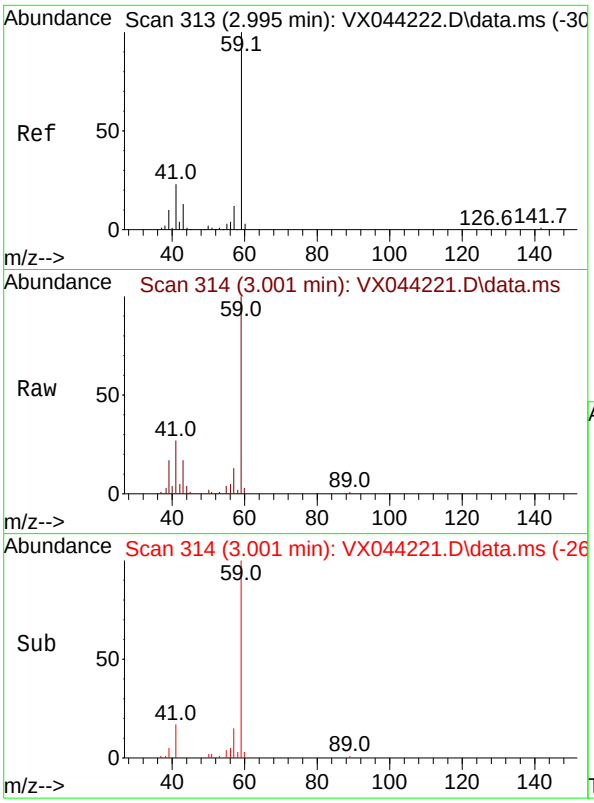


#10
Methyl Iodide
Concen: 19.788 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:142 Resp: 42786

Ion	Ratio	Lower	Upper
142	100		
127	52.9	41.8	62.8
141	14.8	11.5	17.3



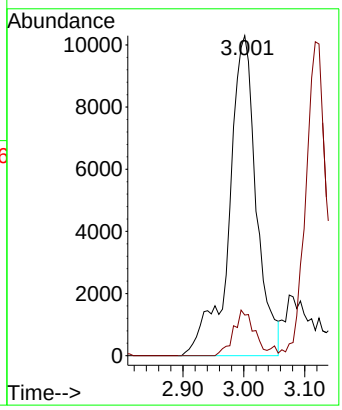


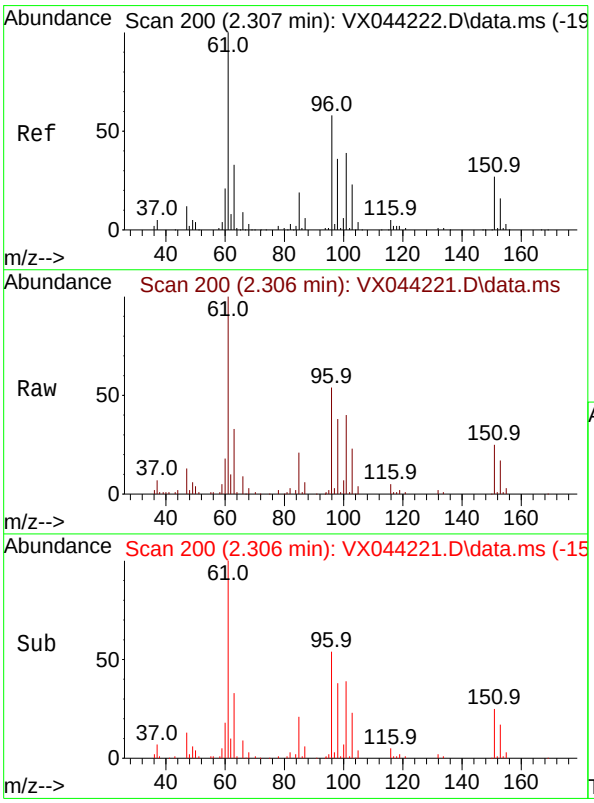
#11
Tert butyl alcohol
Concen: 97.050 ug/l
RT: 3.001 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 32189

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.8	13.2

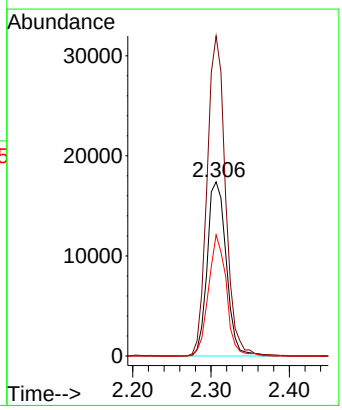


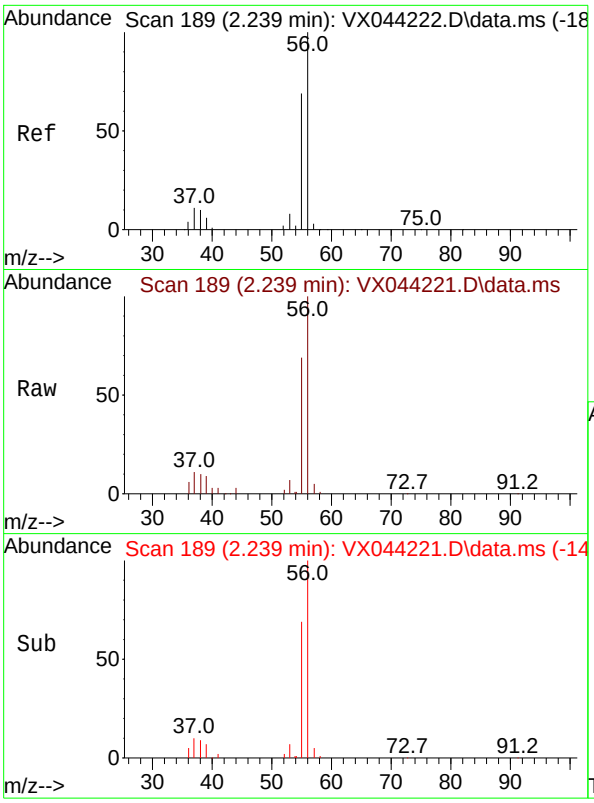


#12
1,1-Dichloroethene
Concen: 19.405 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 96 Resp: 29241

Ion	Ratio	Lower	Upper
96	100		
61	183.9	138.0	207.0
98	69.6	50.0	75.0



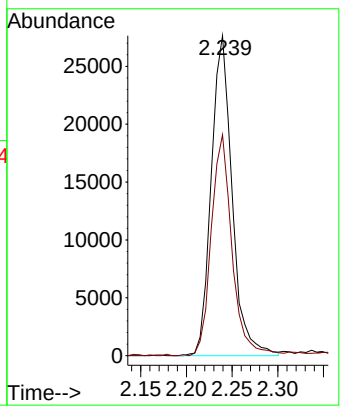


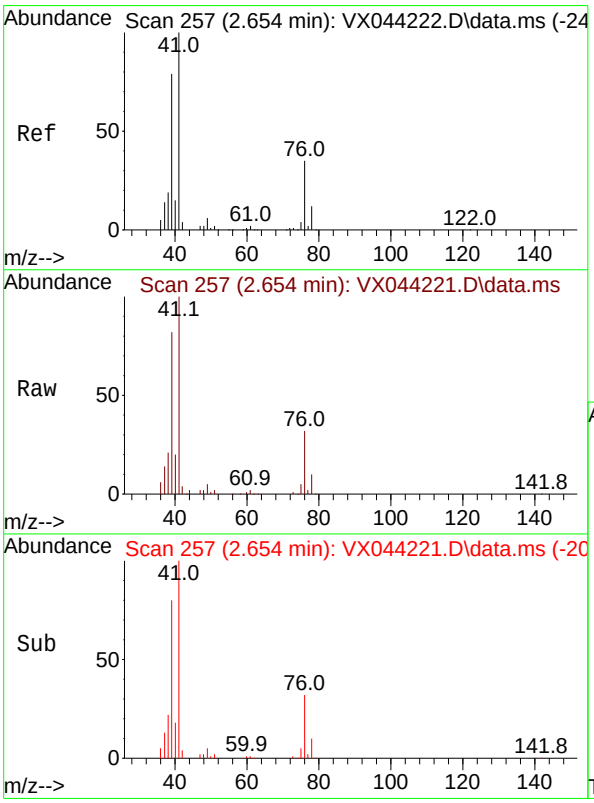
#13
Acrolein
Concen: 91.311 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 43909

Ion	Ratio	Lower	Upper
56	100		
55	68.6	56.6	84.8

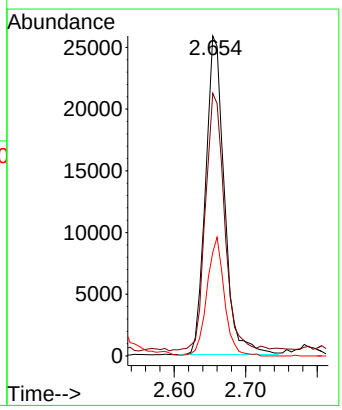


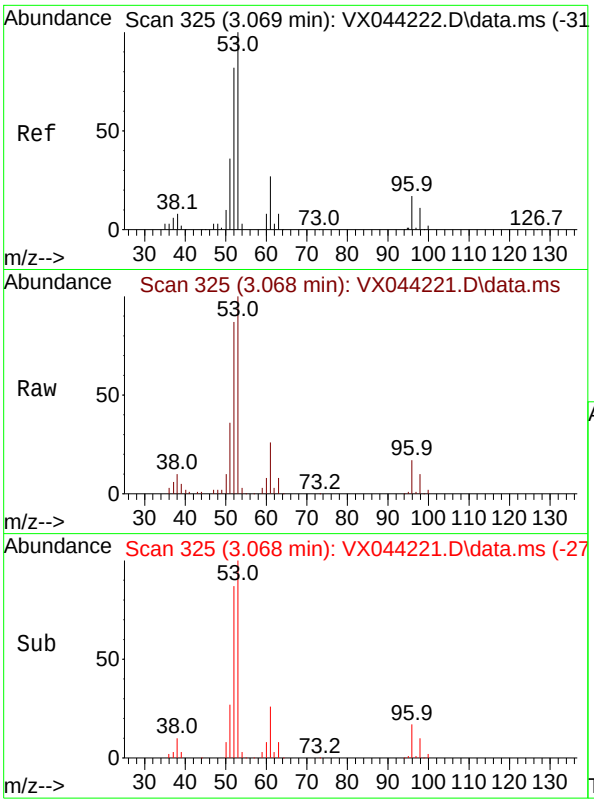


#14
Allyl chloride
Concen: 18.813 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 47218

Ion	Ratio	Lower	Upper
41	100		
39	80.4	61.9	92.9
76	34.5	27.4	41.2



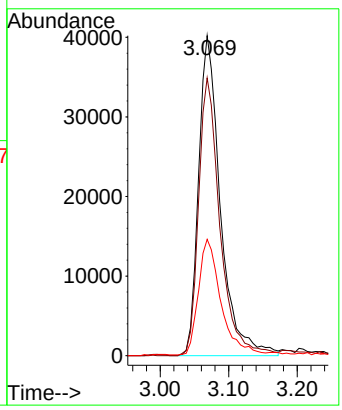


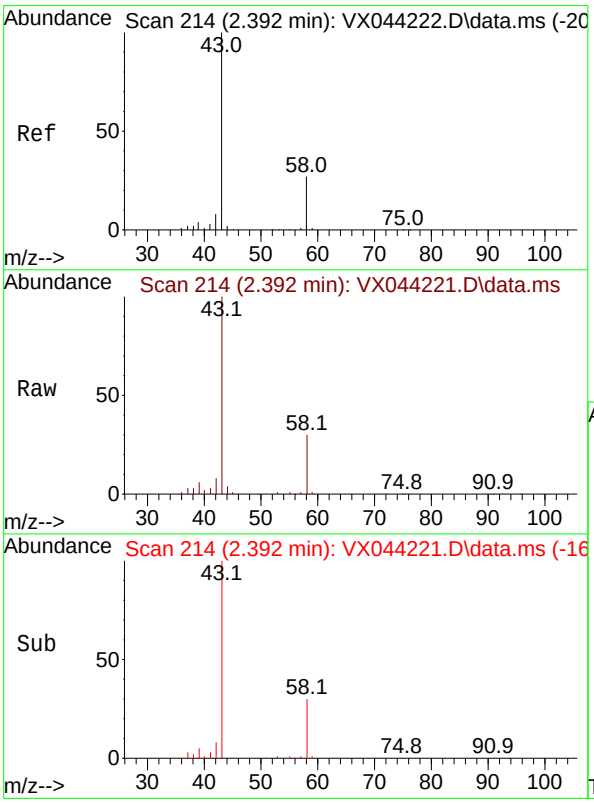
#15
Acrylonitrile
Concen: 96.988 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 89249

Ion	Ratio	Lower	Upper
53	100		
52	85.1	67.4	101.0
51	37.1	30.3	45.5

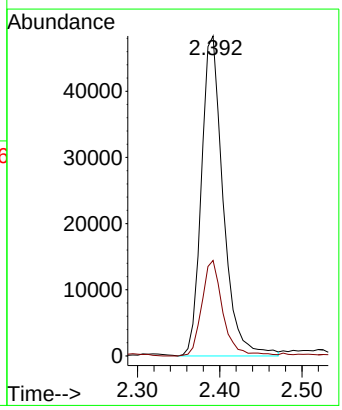


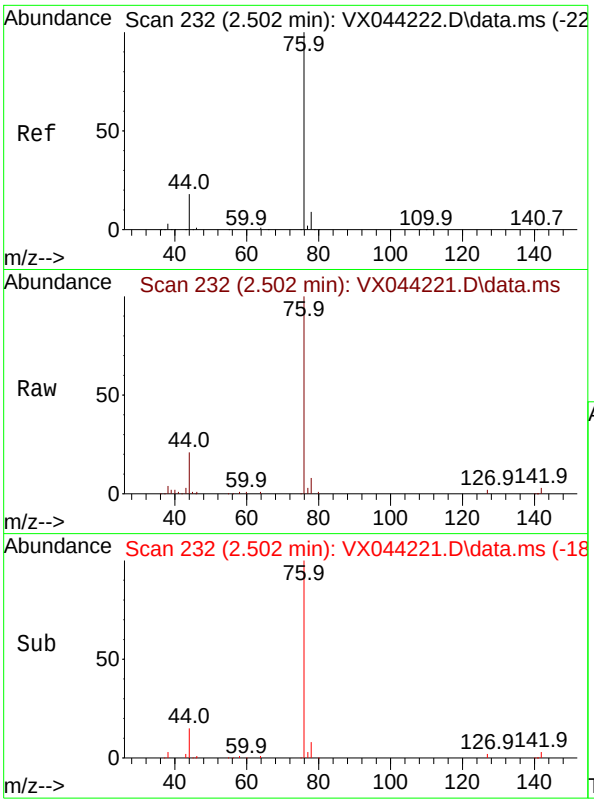


#16
Acetone
Concen: 92.601 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 88985

Ion	Ratio	Lower	Upper
43	100		
58	29.8	21.6	32.4



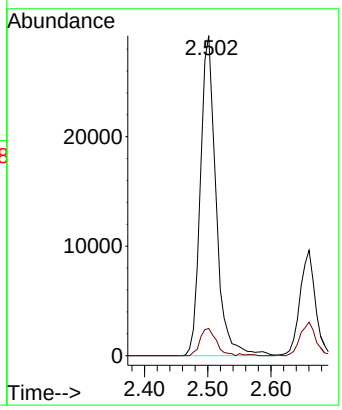


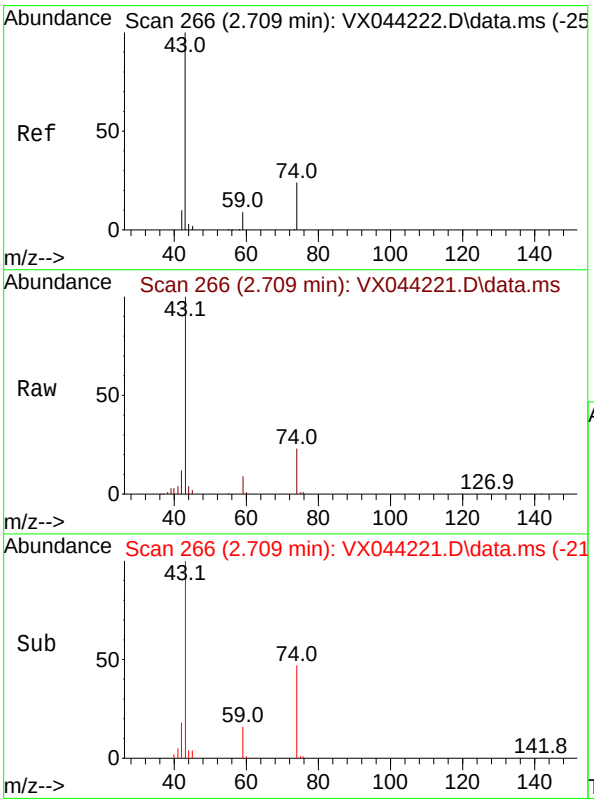
#17
Carbon Disulfide
Concen: 17.595 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 50399

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.0

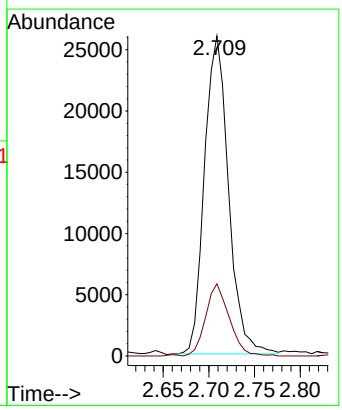


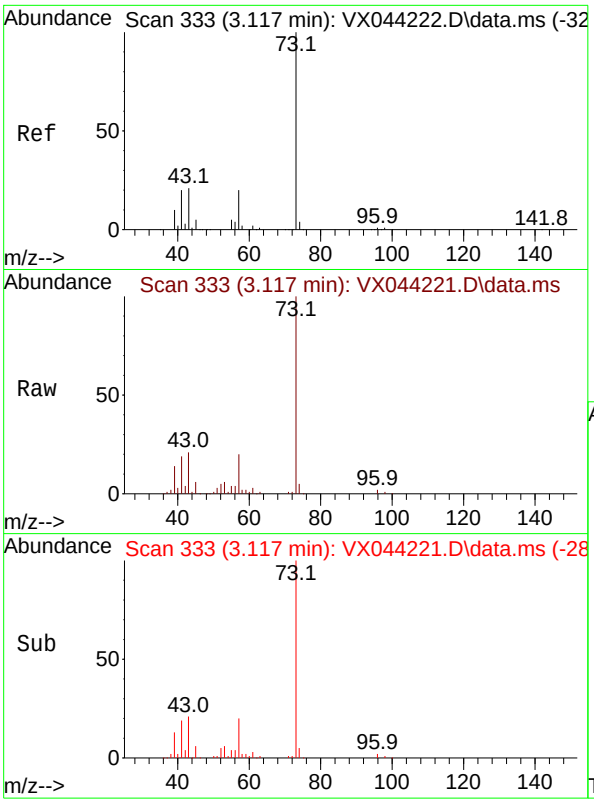


#18
Methyl Acetate
Concen: 19.175 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 47509

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.7	26.5



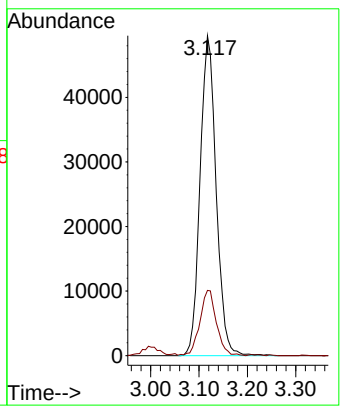


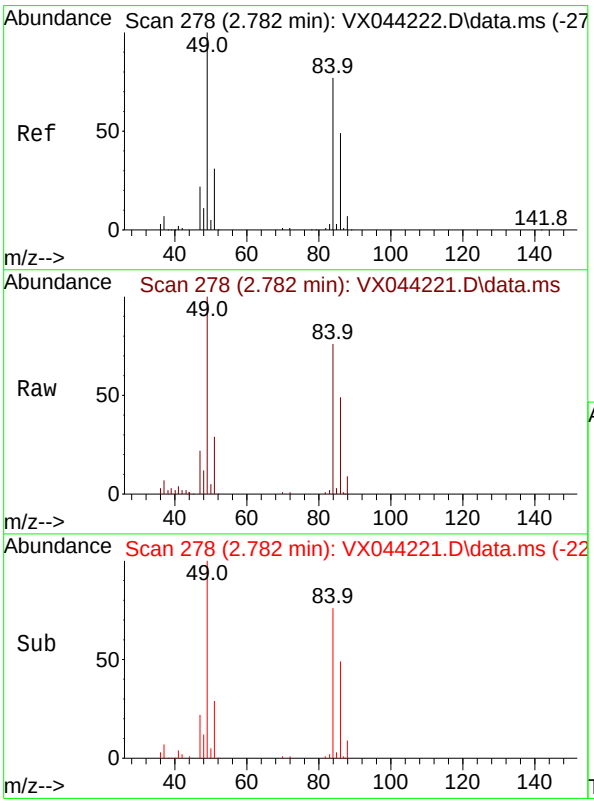
#19
Methyl tert-butyl Ether
Concen: 19.450 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 114371

Ion	Ratio	Lower	Upper
73	100		
57	20.4	16.2	24.4

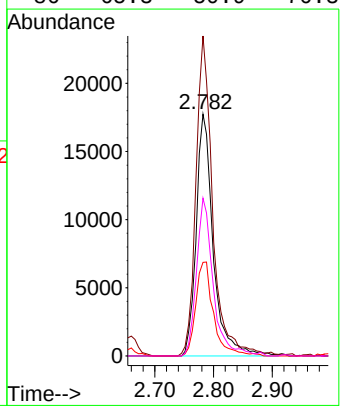


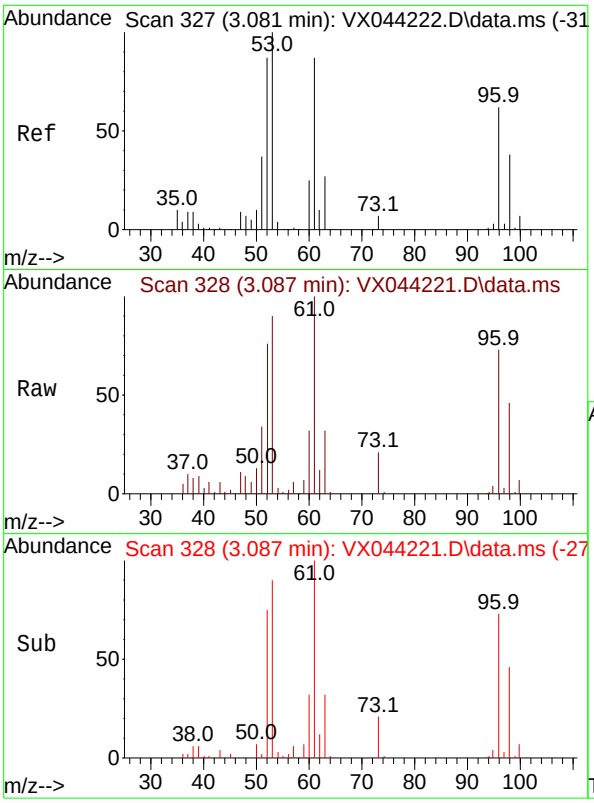


#20
Methylene Chloride
Concen: 19.846 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 84 Resp: 35820

Ion	Ratio	Lower	Upper
84	100		
49	132.3	104.2	156.4
51	38.7	32.2	48.4
86	65.3	50.9	76.3



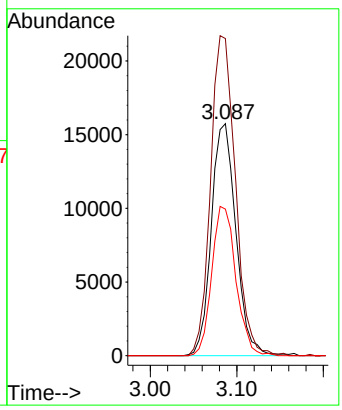


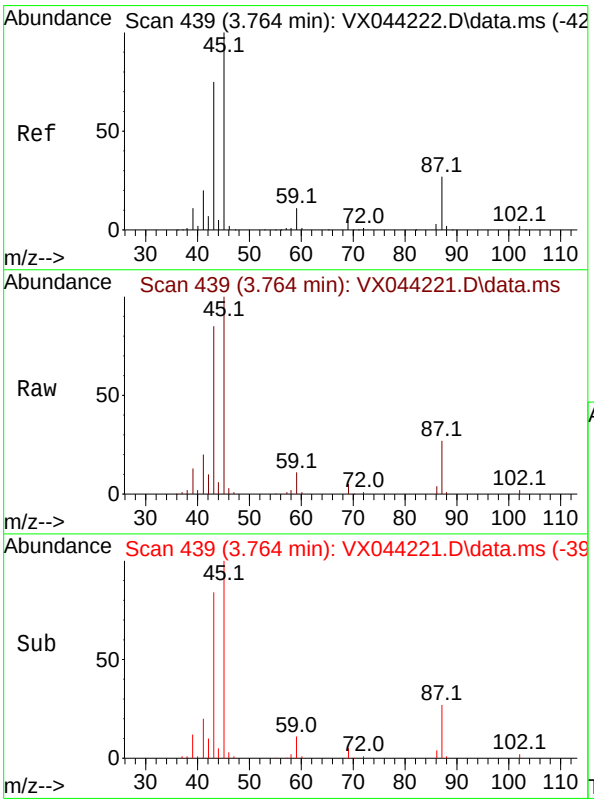
#21
trans-1,2-Dichloroethene
Concen: 19.380 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 31036

Ion	Ratio	Lower	Upper
96	100		
61	136.8	112.0	168.0
98	63.2	48.8	73.2

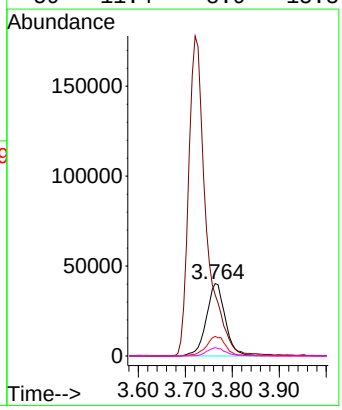


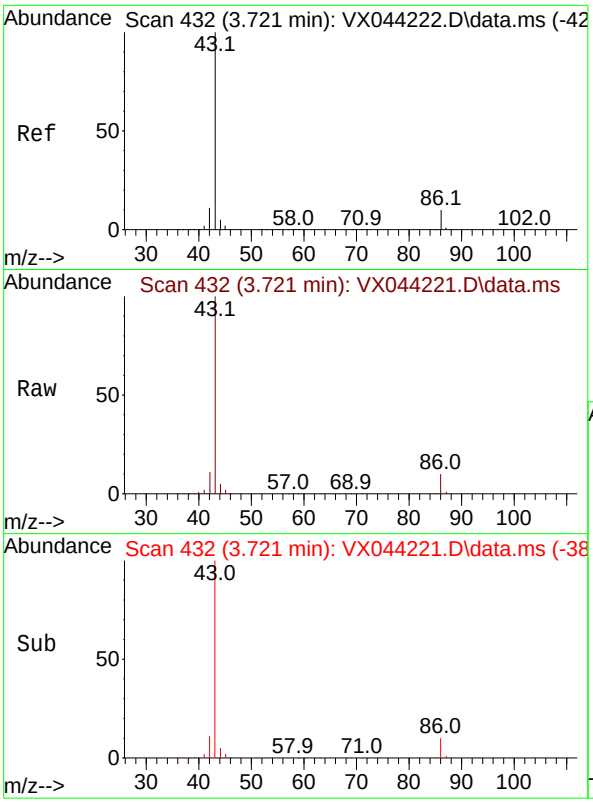


#22
Diisopropyl ether
Concen: 19.907 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 45 Resp: 112511

Ion	Ratio	Lower	Upper
45	100		
43	82.8	60.2	90.2
87	27.1	21.2	31.8
59	11.4	8.9	13.3



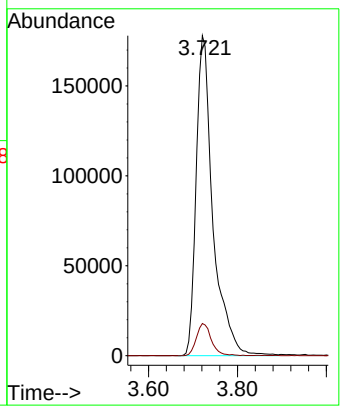


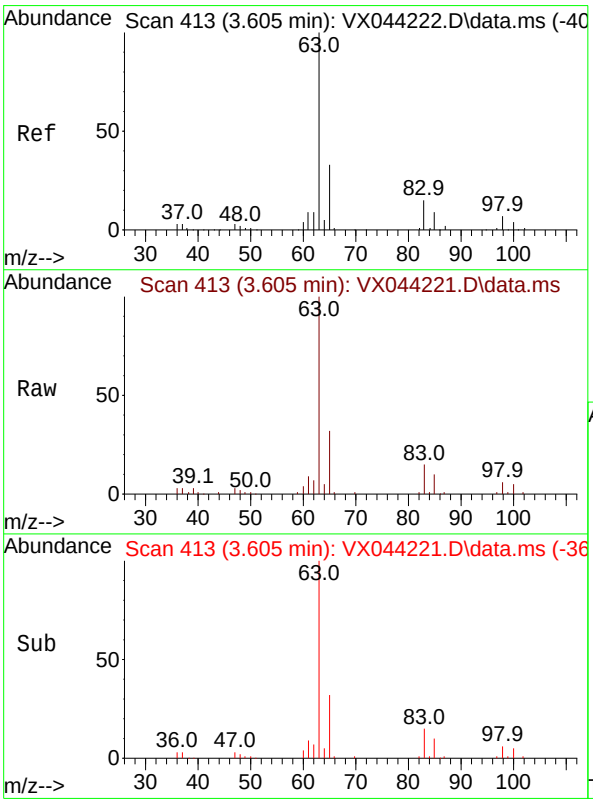
#23
Vinyl Acetate
Concen: 101.354 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 465716

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.2	12.2

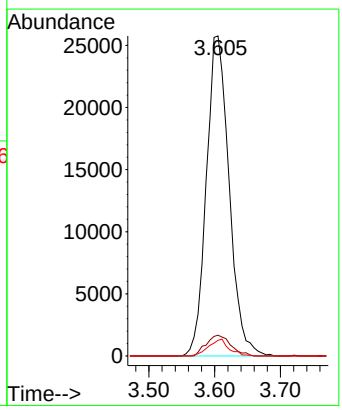


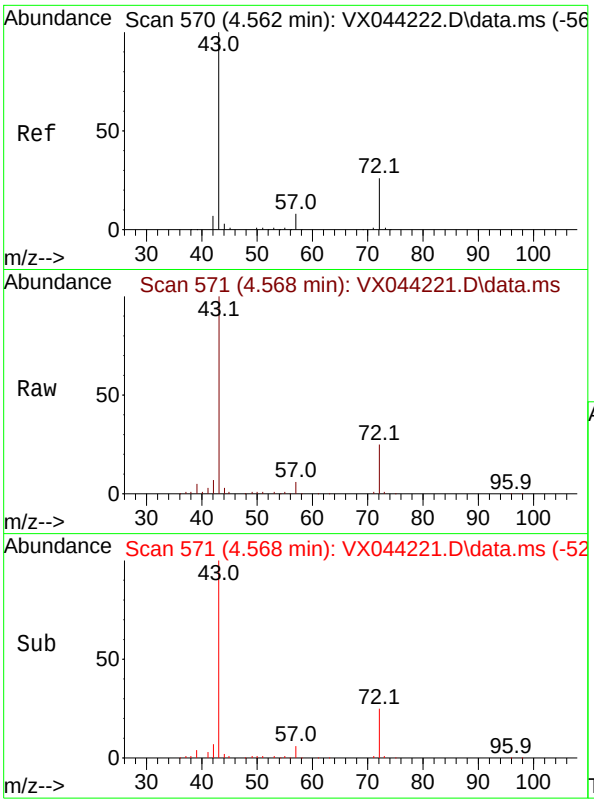


#24
1,1-Dichloroethane
Concen: 19.699 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 62059

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.6	10.8
100	4.9	2.1	6.3



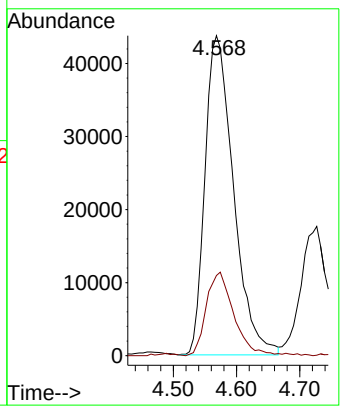


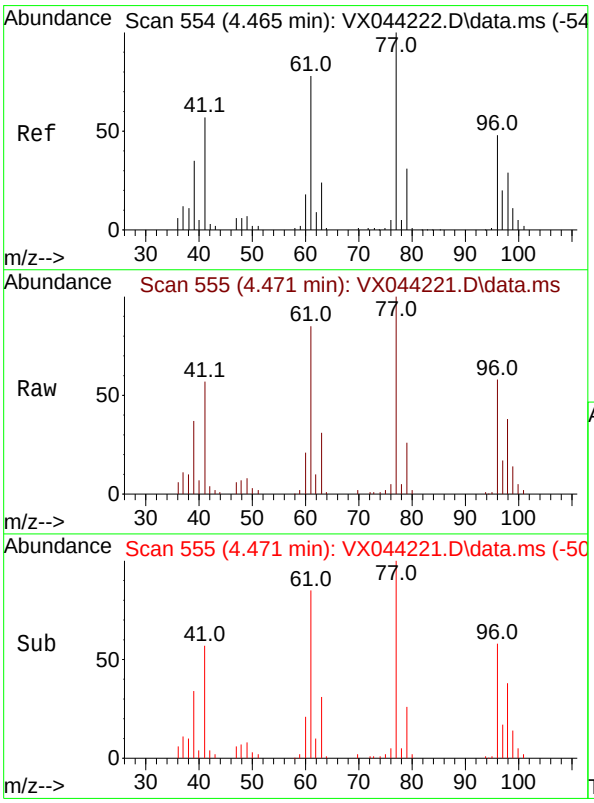
#25
2-Butanone
Concen: 100.277 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 136992

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4

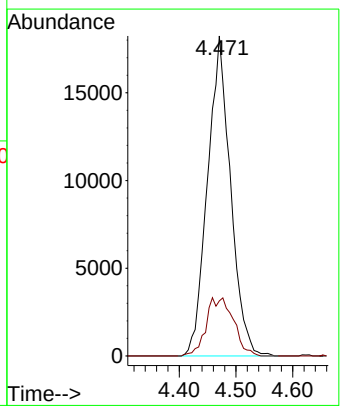


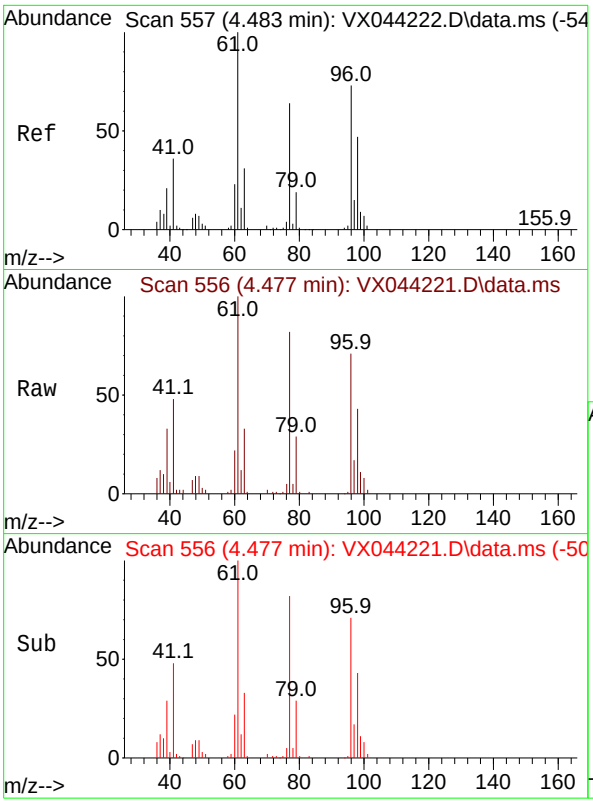


#26
2,2-Dichloropropane
Concen: 20.095 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 77 Resp: 51431

Ion	Ratio	Lower	Upper
77	100		
97	9.1	10.7	32.1#



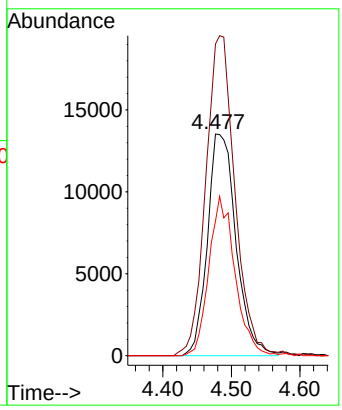


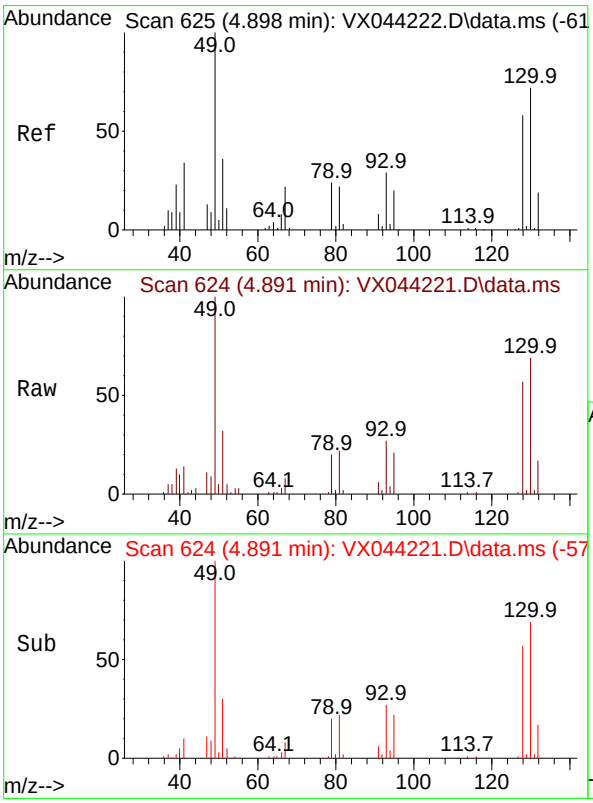
#27
cis-1,2-Dichloroethene
Concen: 19.254 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 39161

Ion	Ratio	Lower	Upper
96	100		
61	147.6	0.0	299.0
98	65.5	0.0	129.0

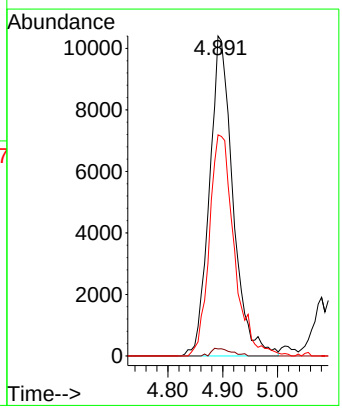


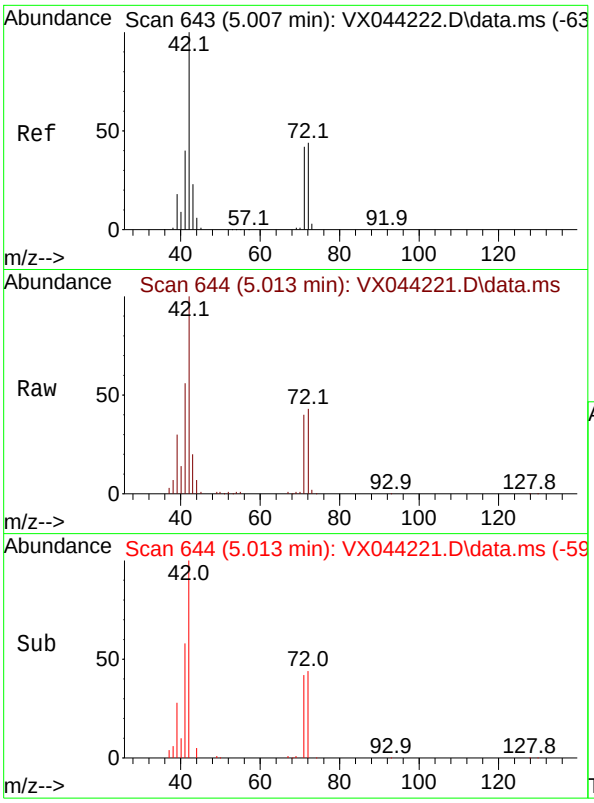


#28
Bromochloromethane
Concen: 20.052 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 49 Resp: 30977

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	73.1	62.1	93.1



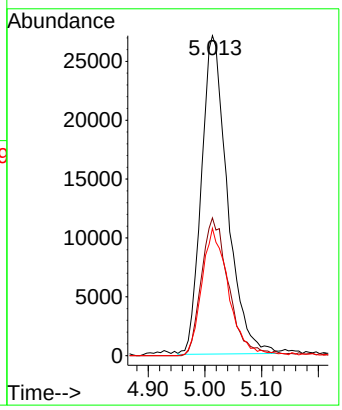


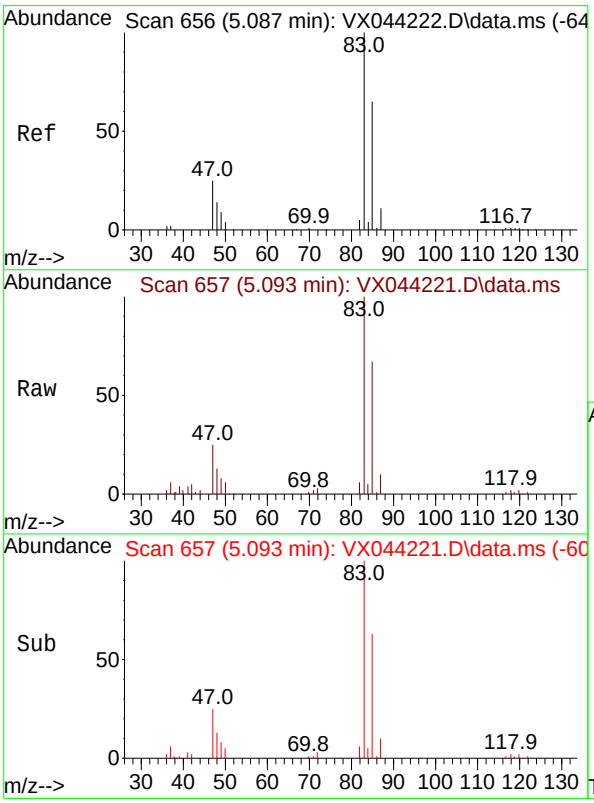
#29
Tetrahydrofuran
Concen: 98.343 ug/l
RT: 5.013 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 86235

Ion	Ratio	Lower	Upper
42	100		
72	45.2	37.0	55.6
71	41.1	33.6	50.4

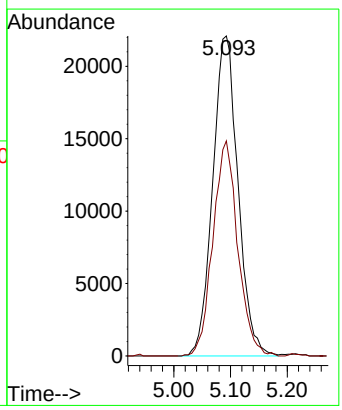


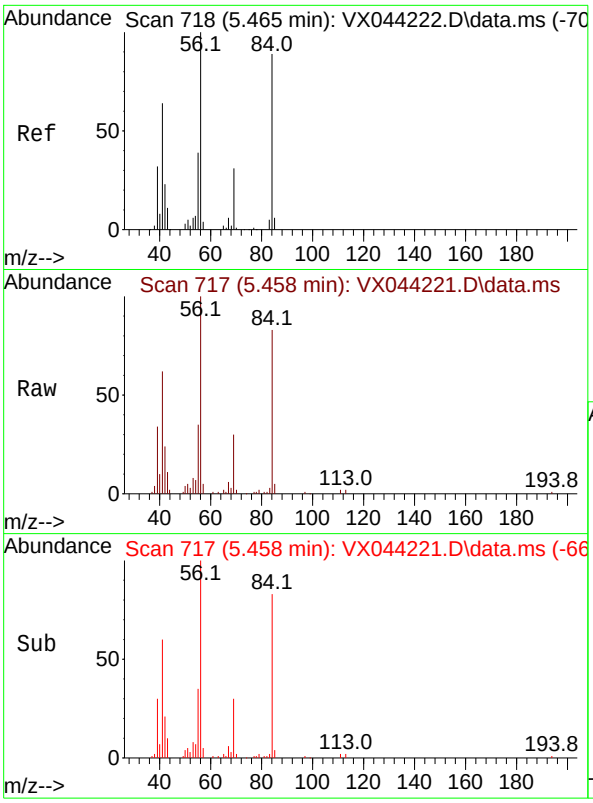


#30
Chloroform
Concen: 19.327 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 83 Resp: 68410

Ion	Ratio	Lower	Upper
83	100		
85	67.2	51.6	77.4



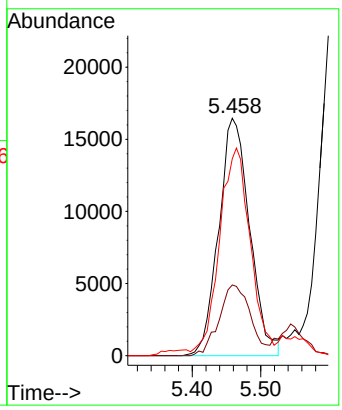


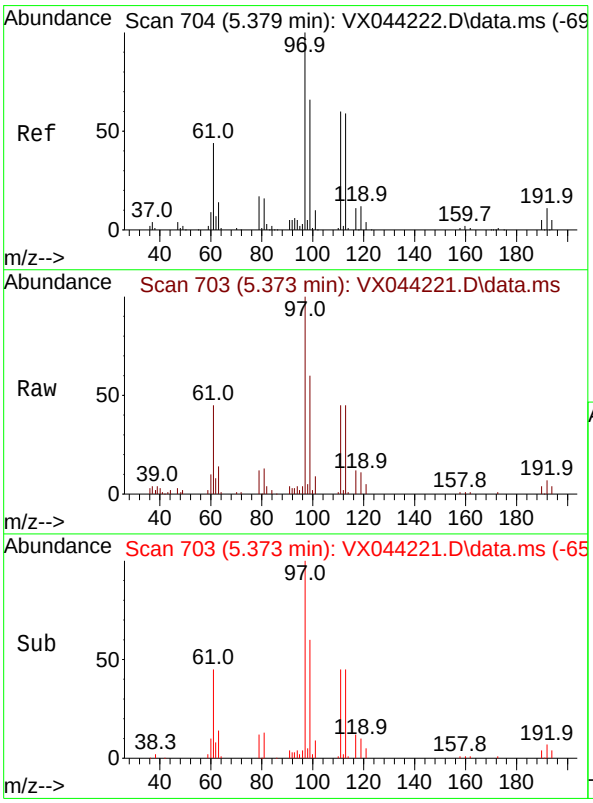
#31
Cyclohexane
Concen: 20.351 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 51773

Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	80.7	71.0	106.6

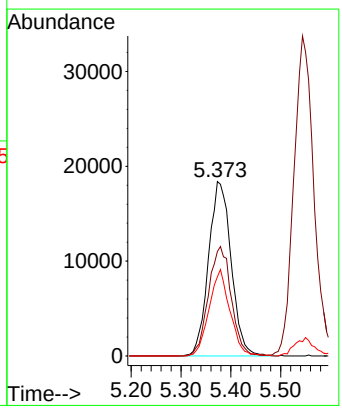


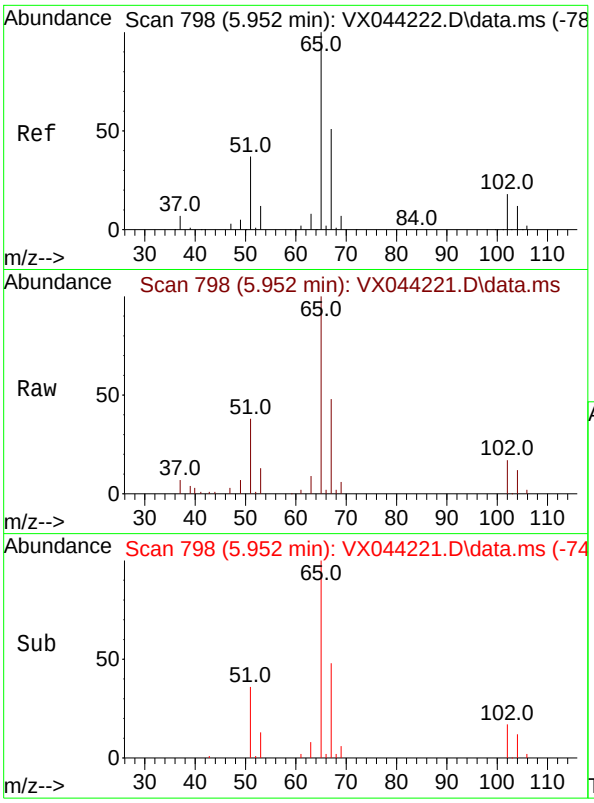


#32
1,1,1-Trichloroethane
Concen: 19.706 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 97 Resp: 57900

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.8	76.2
61	45.7	35.2	52.8



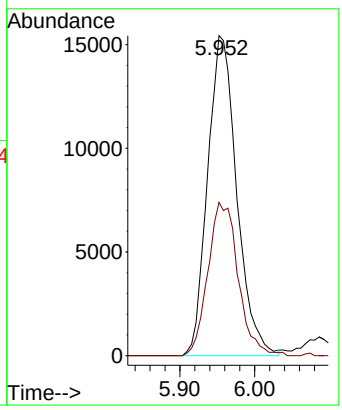


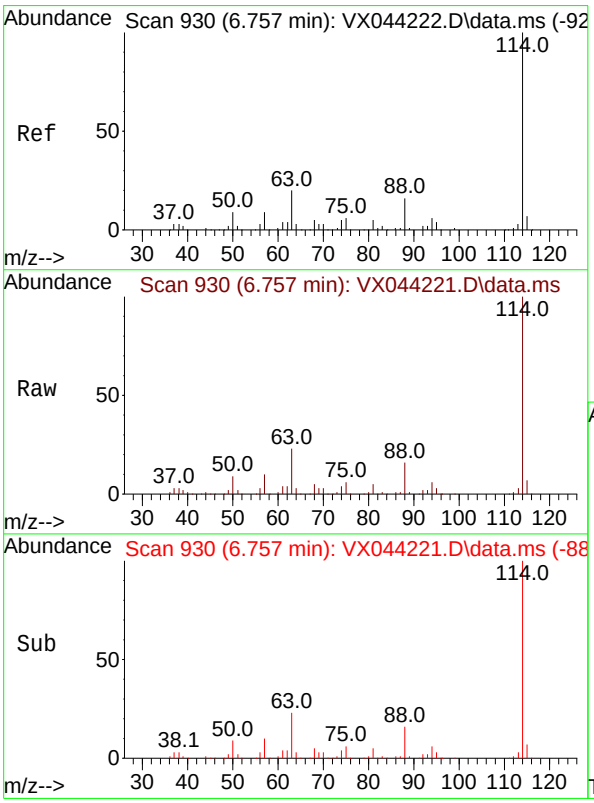
#33
1,2-Dichloroethane-d4
Concen: 17.743 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 41821

Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	101.6

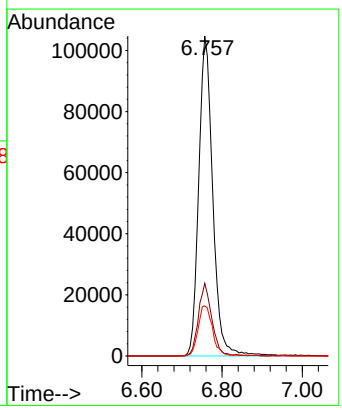


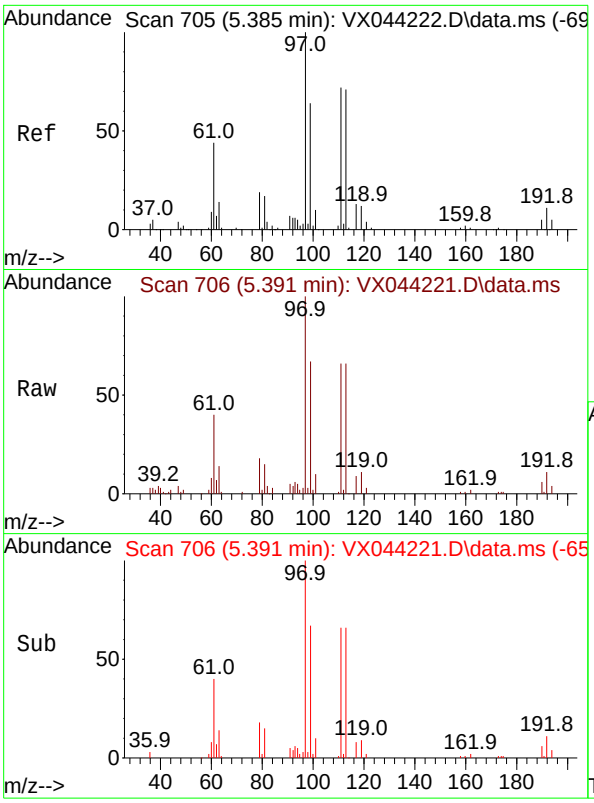


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:114 Resp: 254199

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	40.6
88	15.7	0.0	31.8



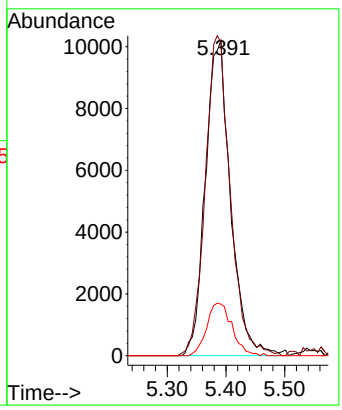


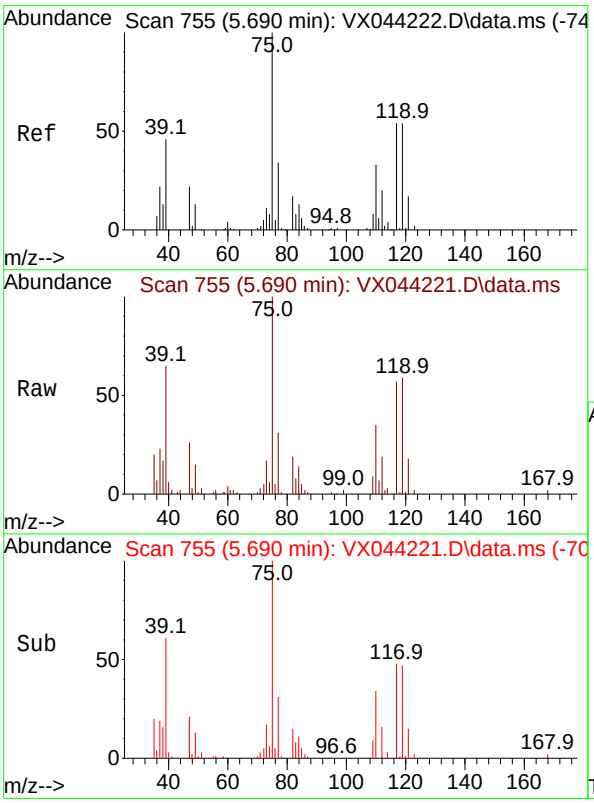
#35
Dibromofluoromethane
Concen: 17.213 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 30304

Ion	Ratio	Lower	Upper
113	100		
111	100.9	80.4	120.6
192	16.7	13.3	19.9

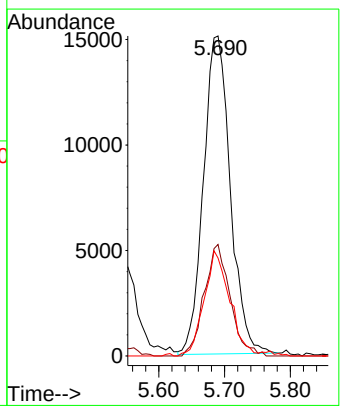


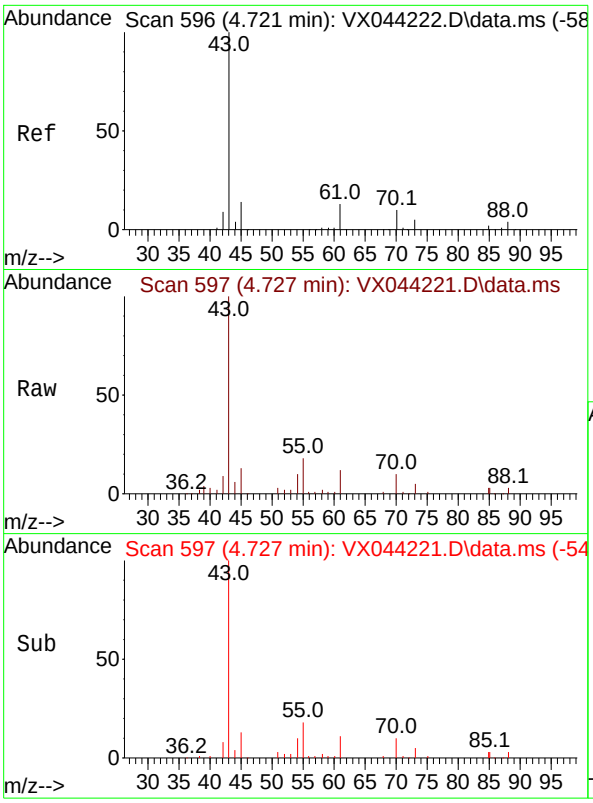


#36
1,1-Dichloropropene
Concen: 18.841 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 42878

Ion	Ratio	Lower	Upper
75	100		
110	33.7	17.3	51.7
77	31.3	25.4	38.0



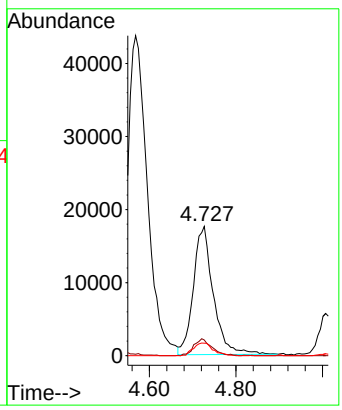


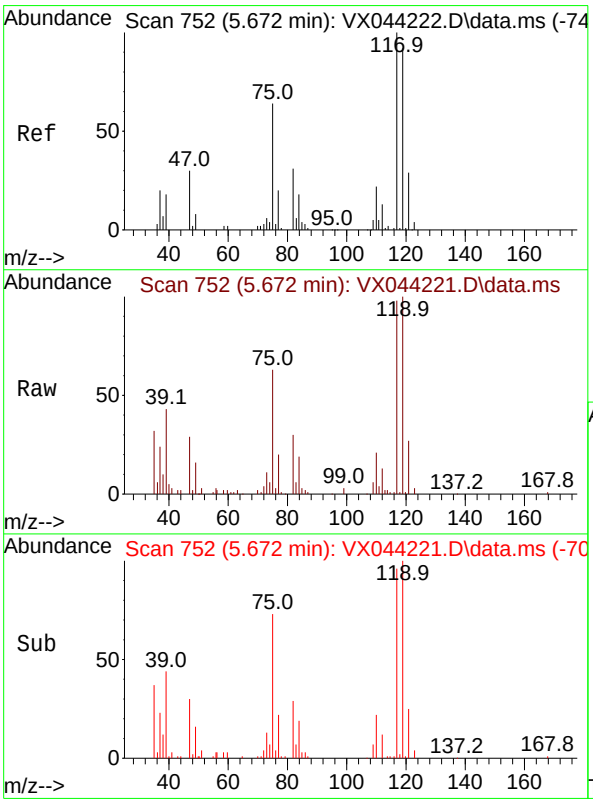
#37
Ethyl Acetate
Concen: 19.913 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 56019

Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	9.9	7.7	11.5

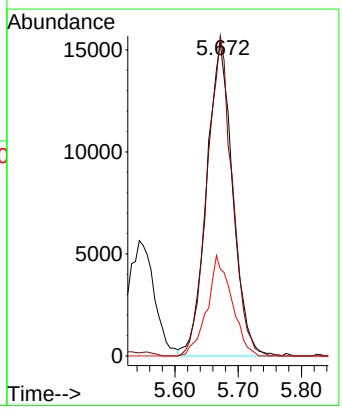


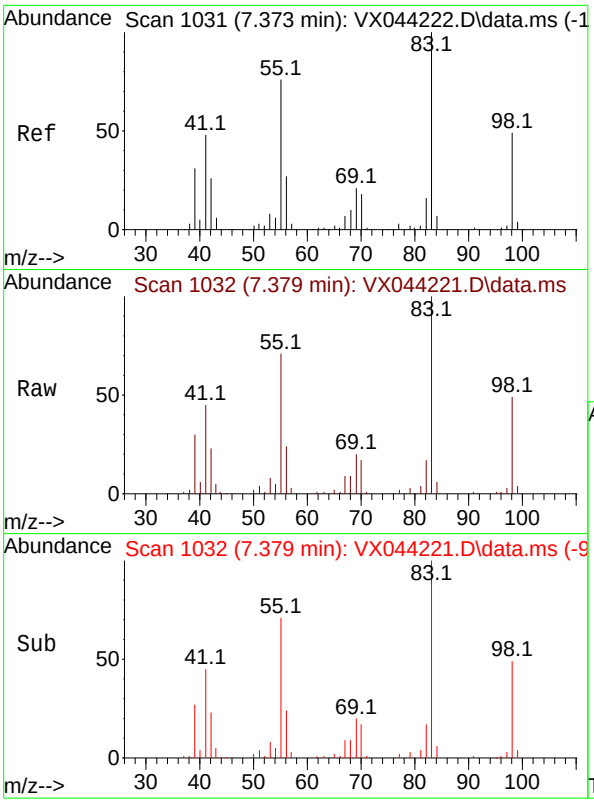


#38
Carbon Tetrachloride
Concen: 17.918 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 43901

Ion	Ratio	Lower	Upper
117	100		
119	102.3	74.2	111.4
121	27.8	23.0	34.6



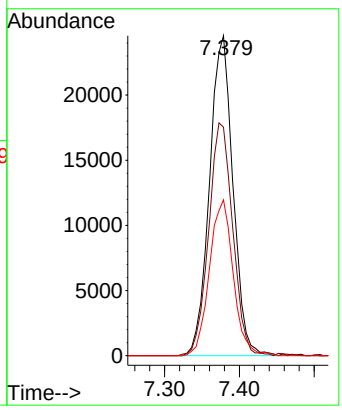


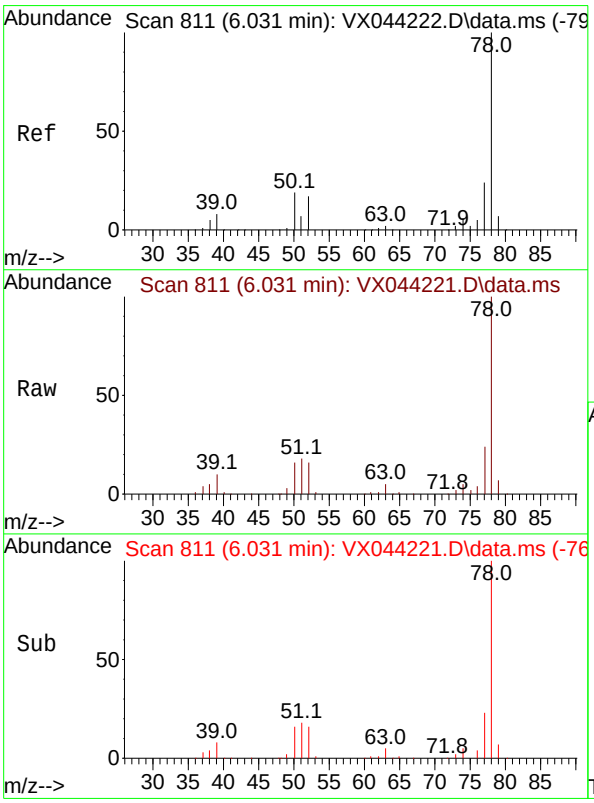
#39
Methylcyclohexane
Concen: 19.678 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 53536

Ion	Ratio	Lower	Upper
83	100		
55	71.4	60.7	91.1
98	48.7	38.9	58.3

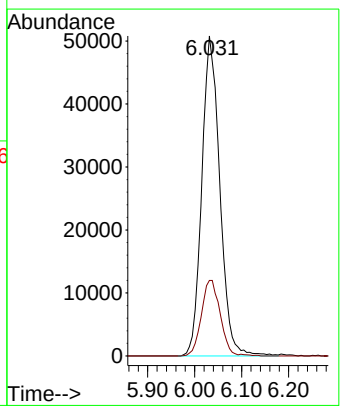


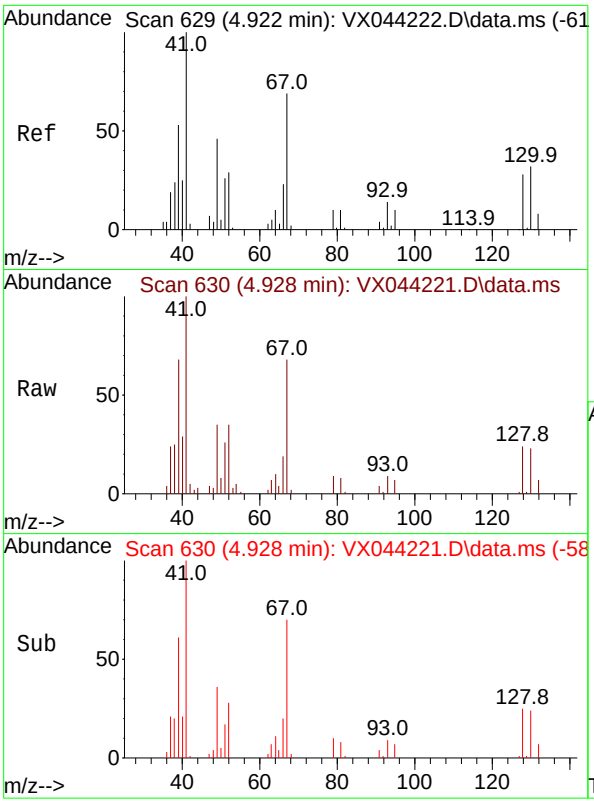


#40
Benzene
Concen: 19.606 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 78 Resp: 135467

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9



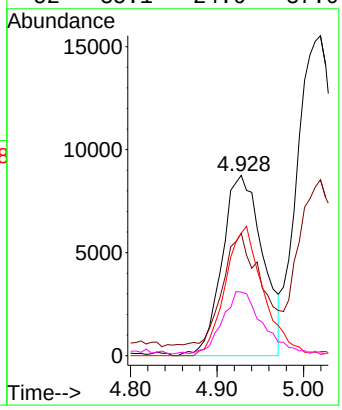


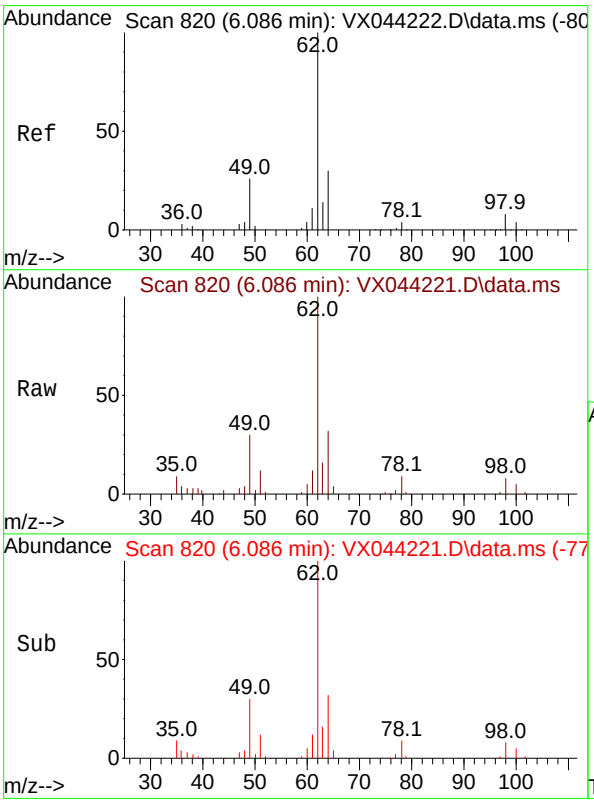
#41
Methacrylonitrile
Concen: 19.095 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 28523

Ion	Ratio	Lower	Upper
41	100		
39	59.0	44.2	66.4
67	67.6	57.2	85.8
52	35.1	24.6	37.0

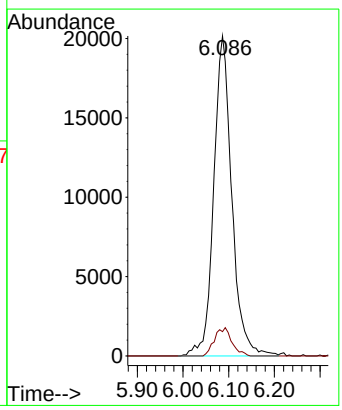


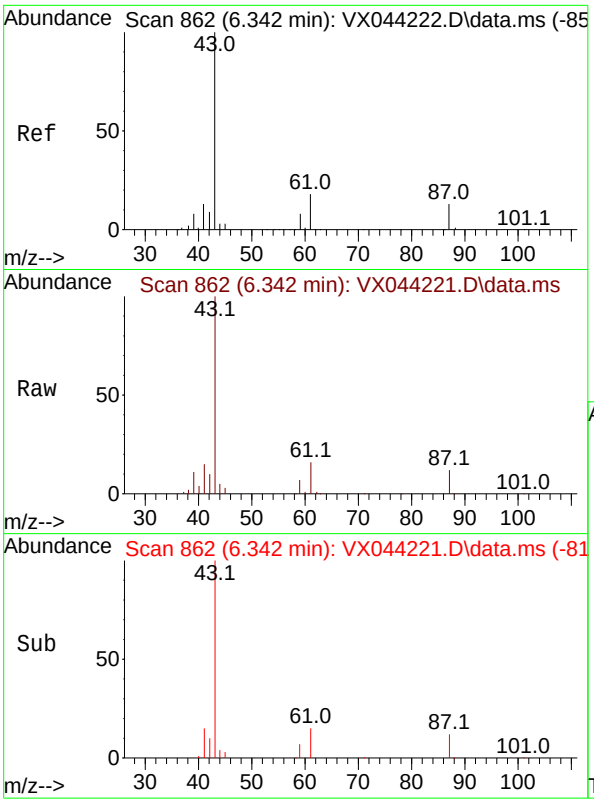


#42
1,2-Dichloroethane
Concen: 19.456 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 62 Resp: 55377

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	15.8



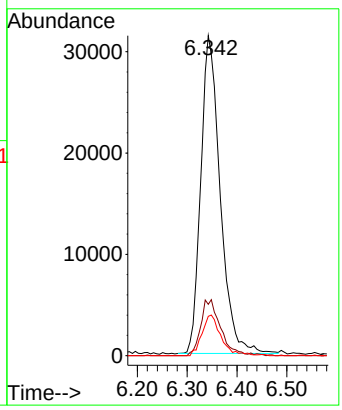


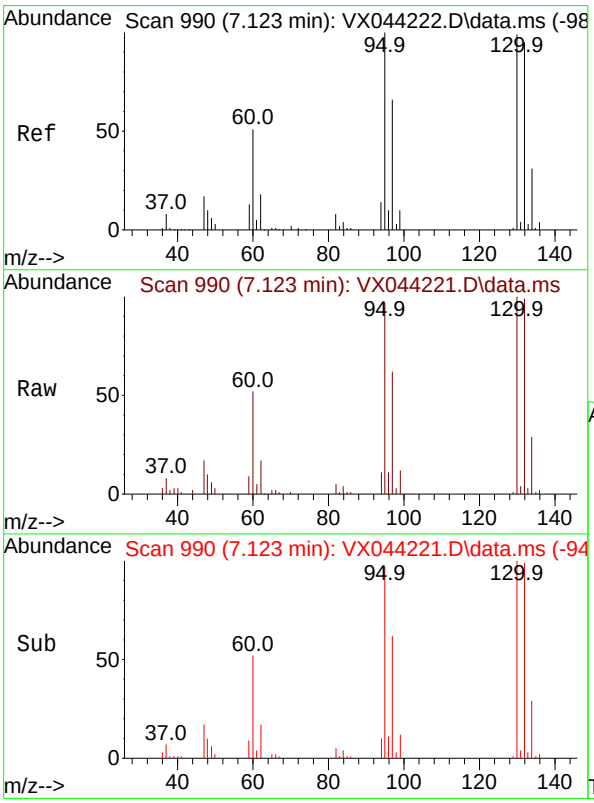
#43
Isopropyl Acetate
Concen: 19.301 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 84866

Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.5	10.2	15.2

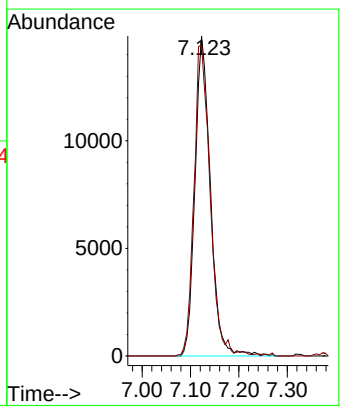


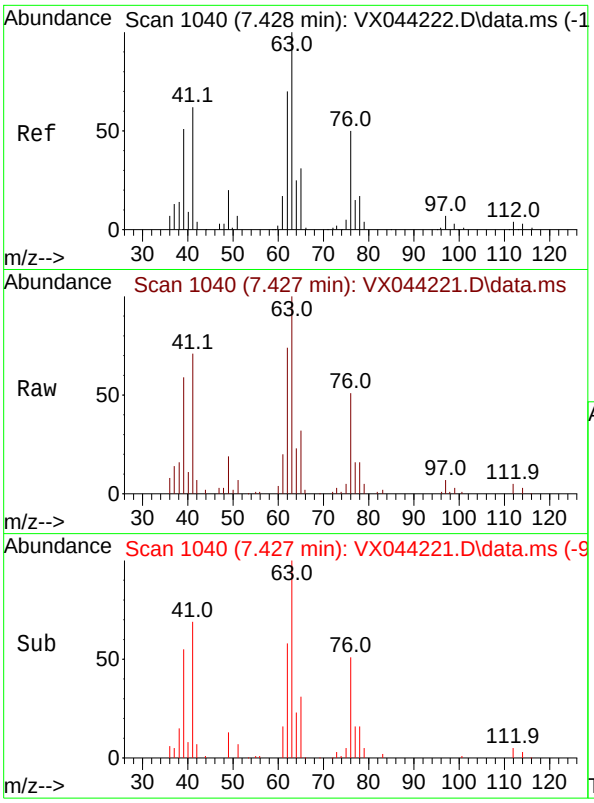


#44
Trichloroethene
Concen: 19.149 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:130 Resp: 32995

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	201.4



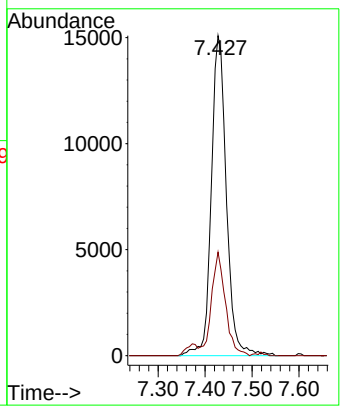


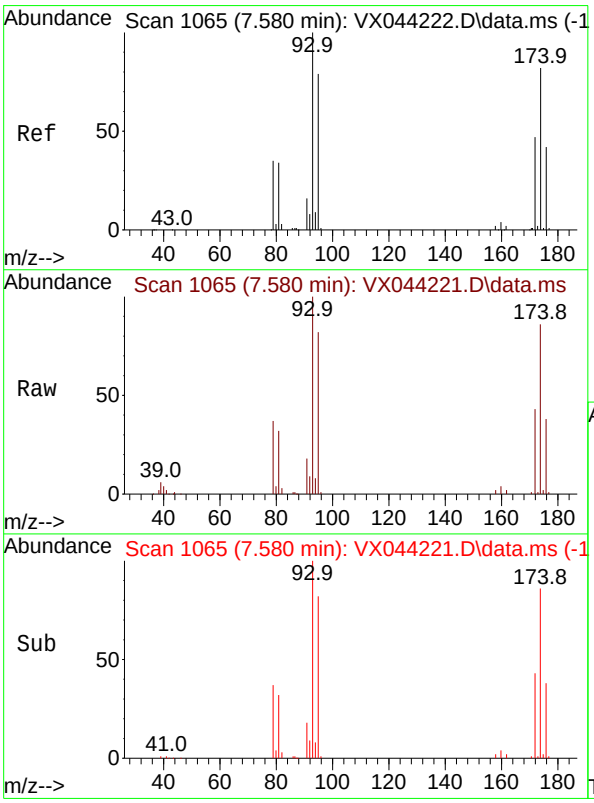
#45
1,2-Dichloropropane
Concen: 19.025 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 33585

Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.6	37.0

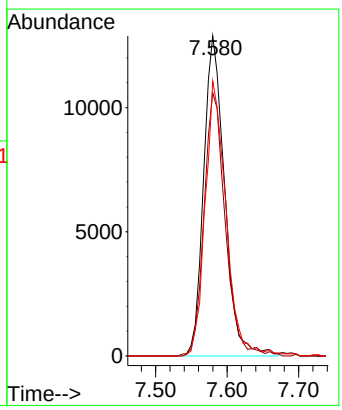


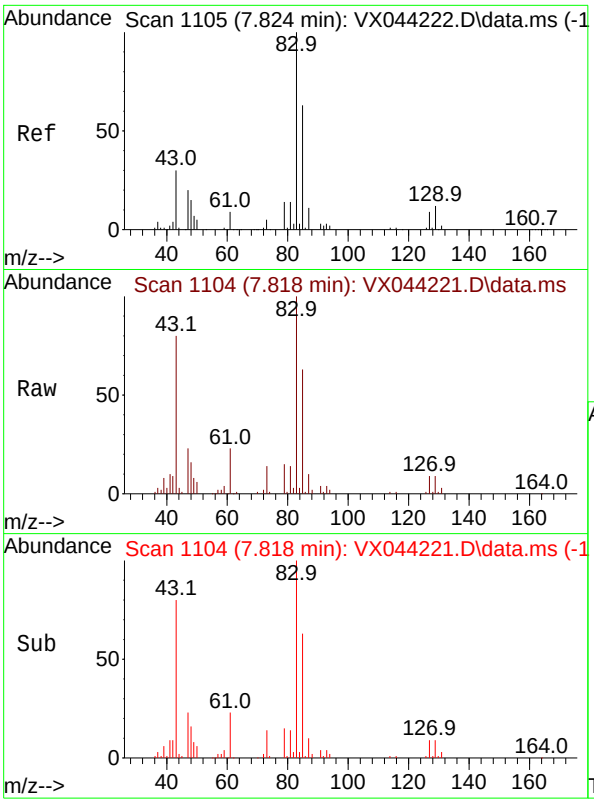


#46
Dibromomethane
Concen: 19.199 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 93 Resp: 26293

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.4	98.2
174	86.1	67.9	101.9



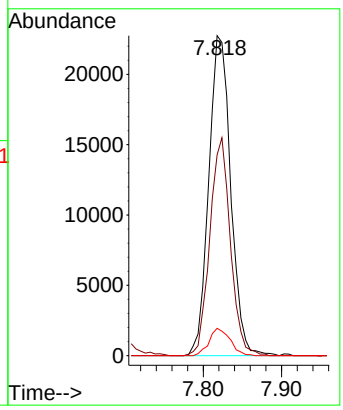


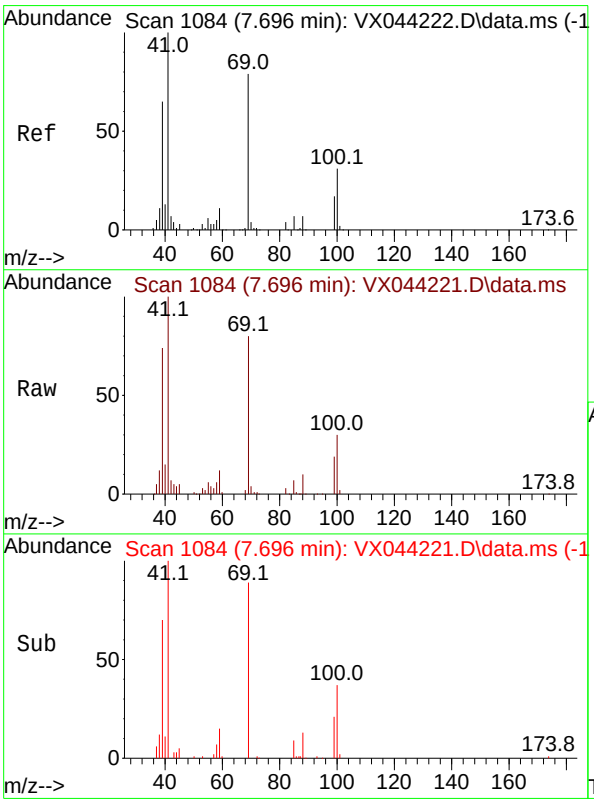
#47
Bromodichloromethane
Concen: 18.735 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 44312

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.6	75.8
127	8.6	7.3	10.9

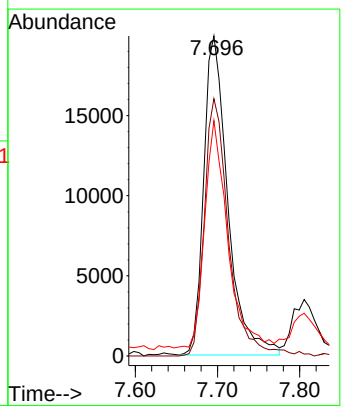


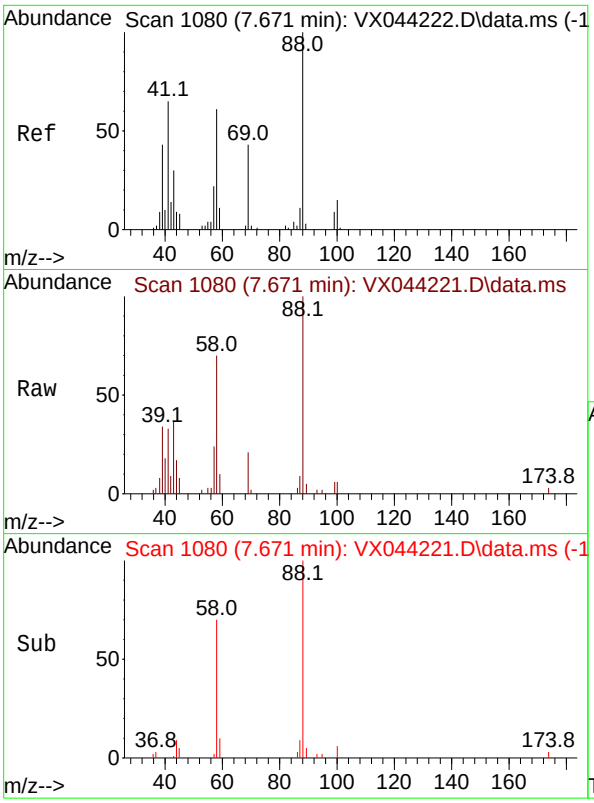


#48
Methyl methacrylate
Concen: 19.032 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 41 Resp: 40620

Ion	Ratio	Lower	Upper
41	100		
69	80.5	62.4	93.6
39	67.5	53.3	79.9



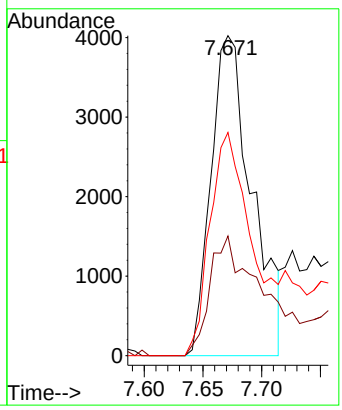


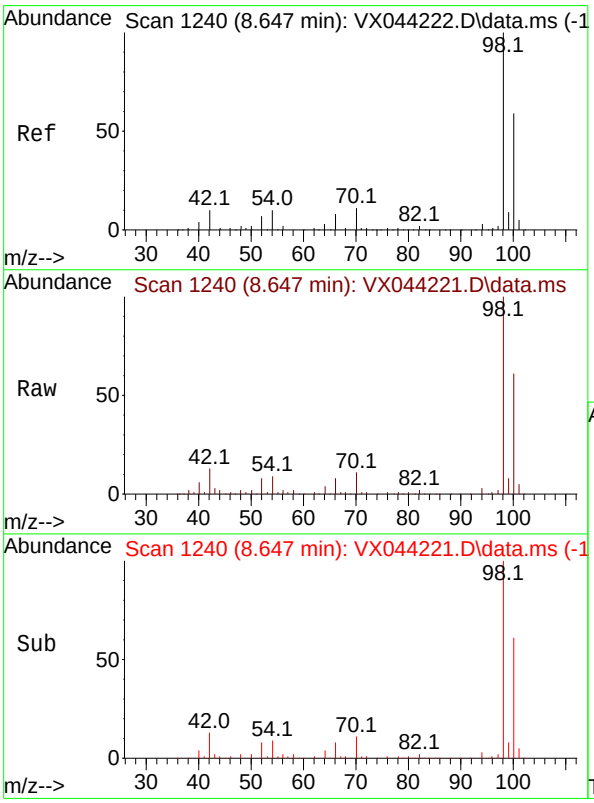
#49
1,4-Dioxane
Concen: 268.697 ug/l
RT: 7.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 9801

Ion	Ratio	Lower	Upper
88	100		
43	49.5	27.1	40.7#
58	72.2	41.0	61.4#

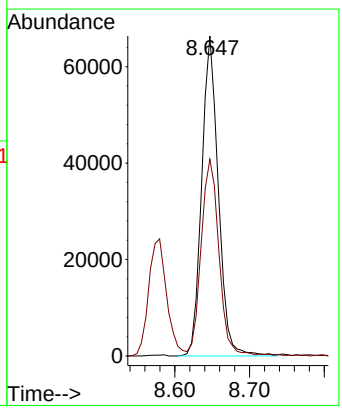


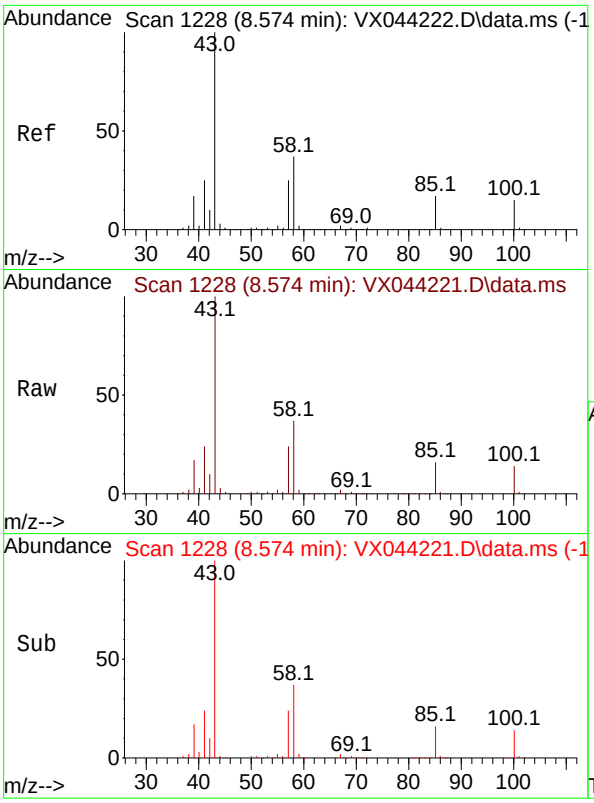


#50
Toluene-d8
Concen: 17.284 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 98 Resp: 102660

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3



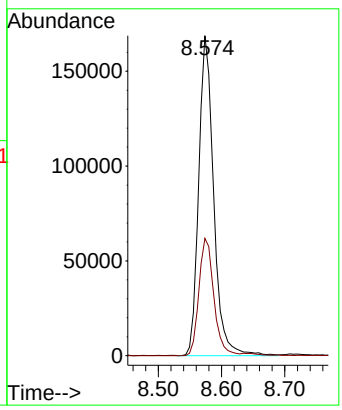


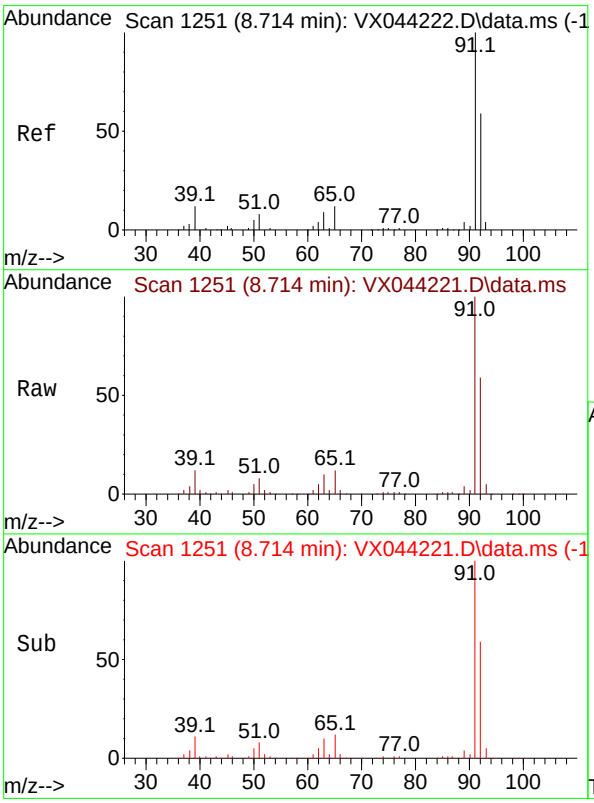
#51
4-Methyl-2-Pentanone
Concen: 98.429 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 278267

Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.4	44.0

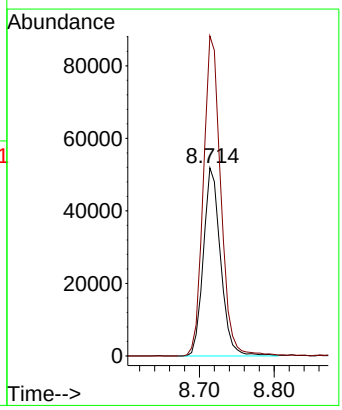


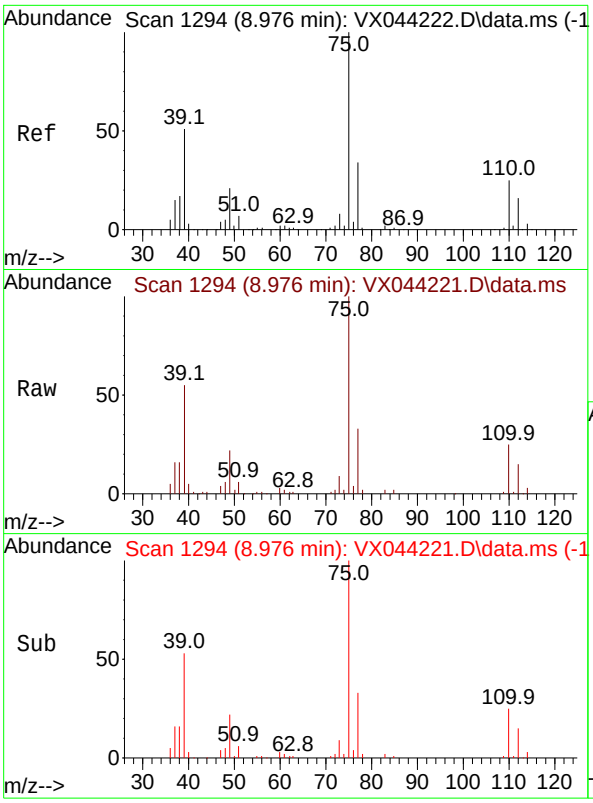


#52
Toluene
Concen: 19.113 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 92 Resp: 82934

Ion	Ratio	Lower	Upper
92	100		
91	172.9	137.0	205.6



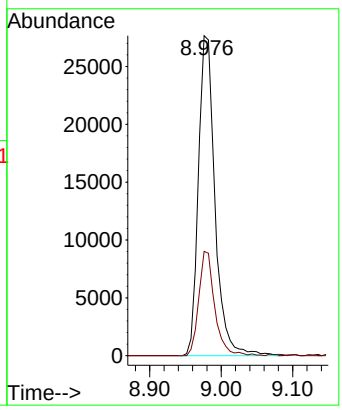


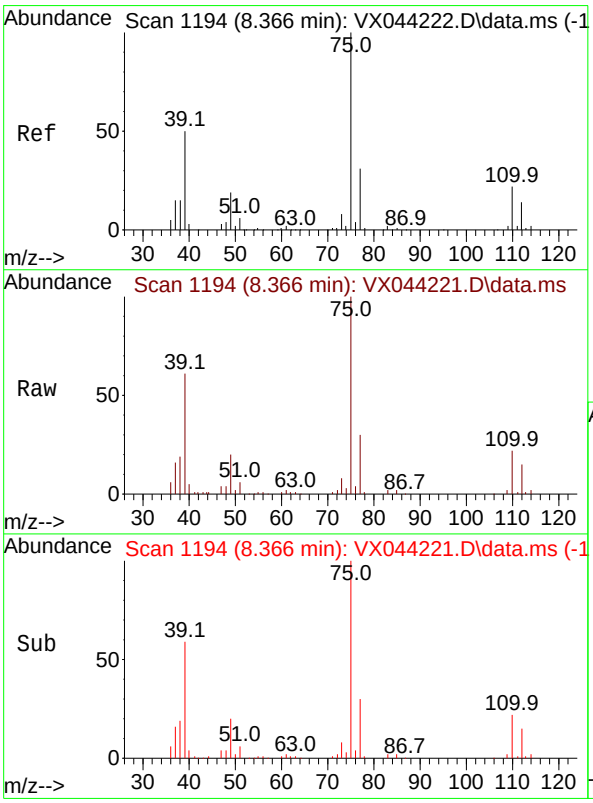
#53
t-1,3-Dichloropropene
Concen: 18.785 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 44614

Ion	Ratio	Lower	Upper
75	100		
77	32.6	27.2	40.8

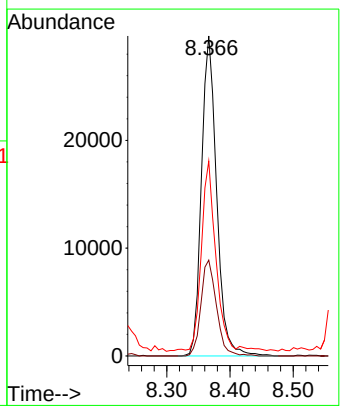


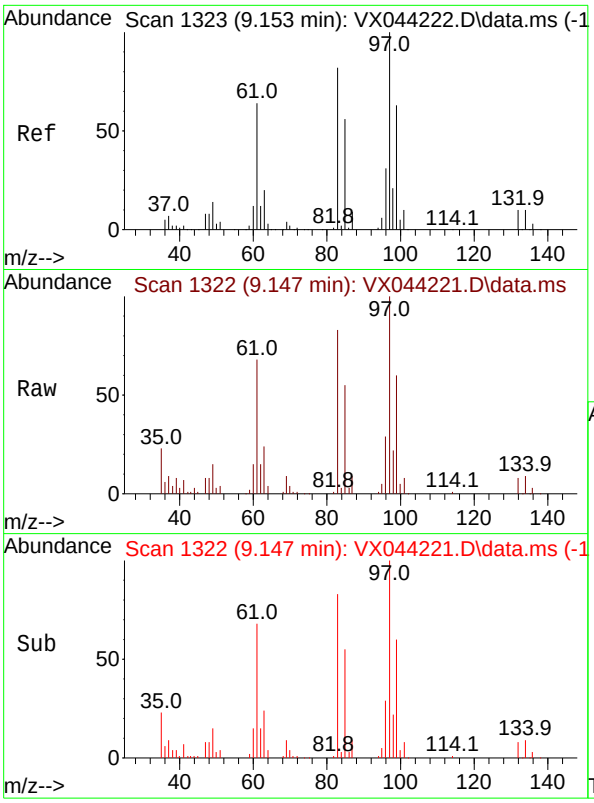


#54
cis-1,3-Dichloropropene
Concen: 19.258 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 49596

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.7	37.1
39	59.4	40.3	60.5



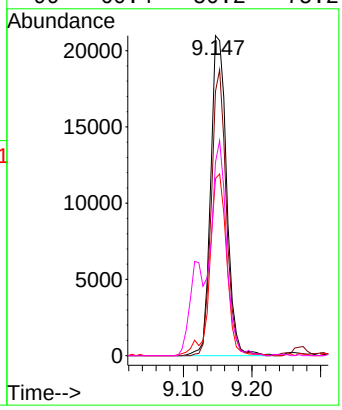


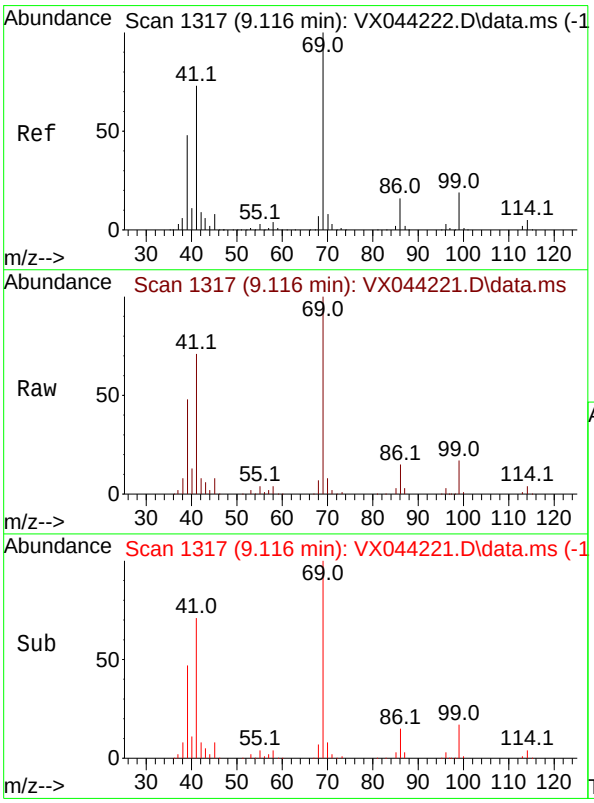
#55
1,1,2-Trichloroethane
Concen: 19.732 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 34013

Ion	Ratio	Lower	Upper
97	100		
83	82.6	65.3	97.9
85	55.3	44.6	67.0
99	60.4	50.2	75.2

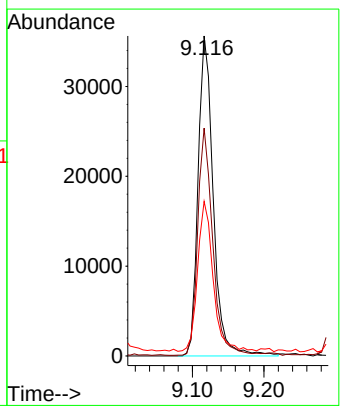


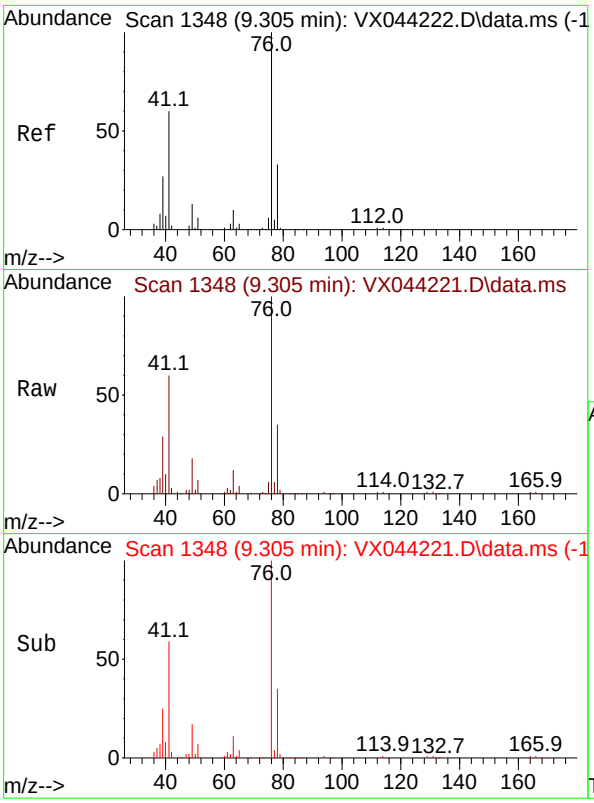


#56
Ethyl methacrylate
Concen: 19.318 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 69 Resp: 52571

Ion	Ratio	Lower	Upper
69	100		
41	70.3	56.6	85.0
39	47.8	37.4	56.0



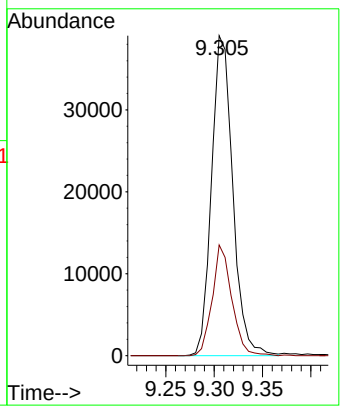


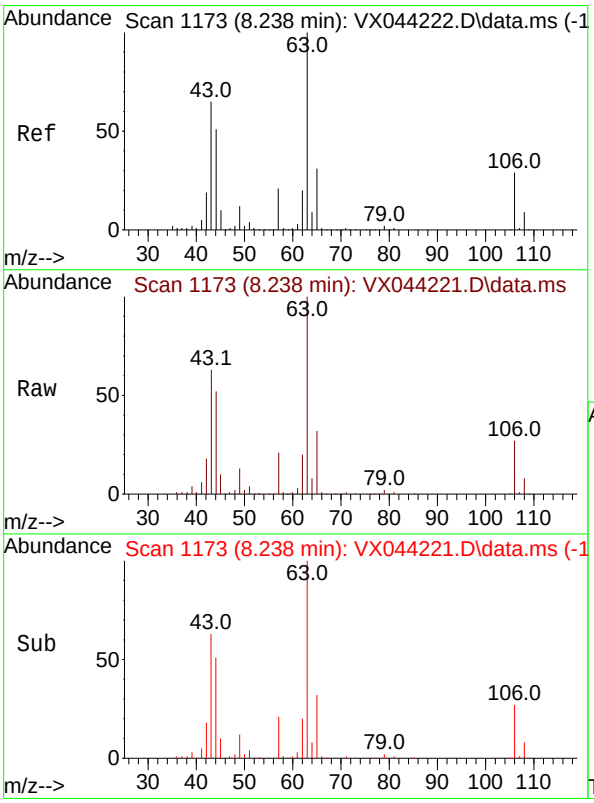
#57
1,3-Dichloropropane
Concen: 19.827 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 59489

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.5	39.7

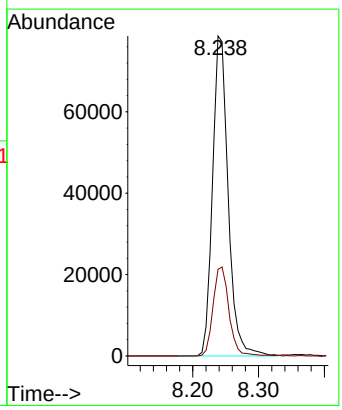


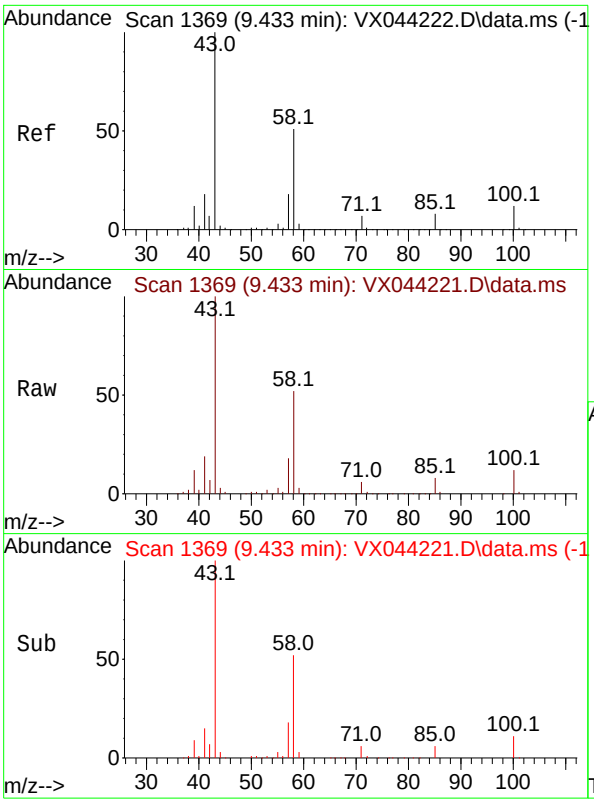


#58
2-Chloroethyl Vinyl ether
Concen: 94.642 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 63 Resp: 129900

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2



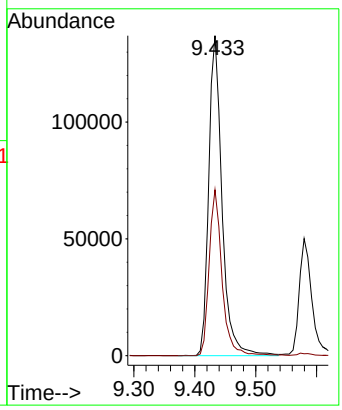


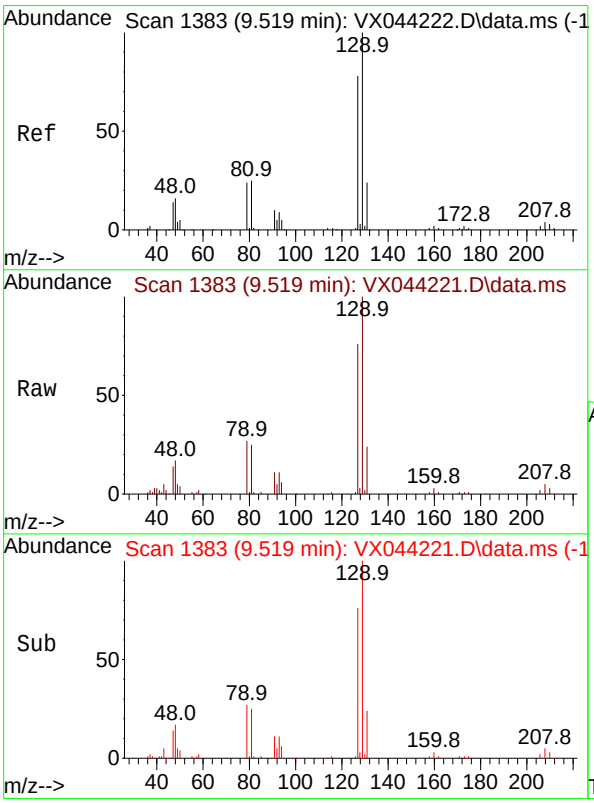
#59
2-Hexanone
Concen: 101.440 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 207578

Ion	Ratio	Lower	Upper
43	100		
58	50.4	25.7	77.0

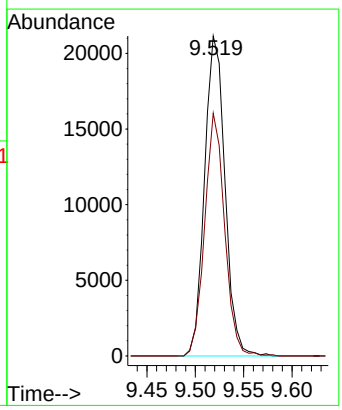


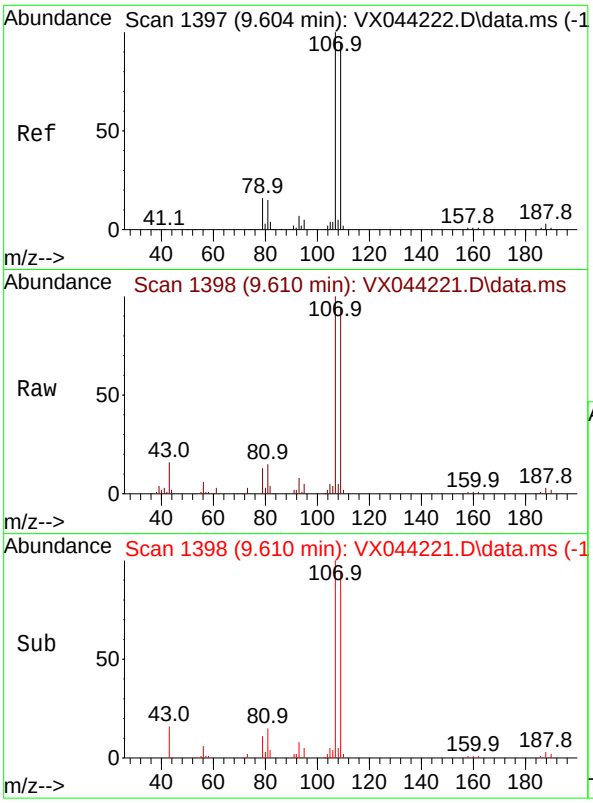


#60
Dibromochloromethane
Concen: 18.318 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:129 Resp: 31066

Ion	Ratio	Lower	Upper
129	100		
127	74.1	38.5	115.3



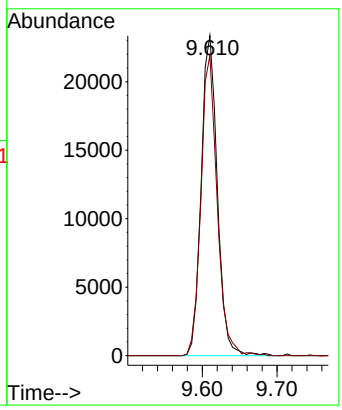


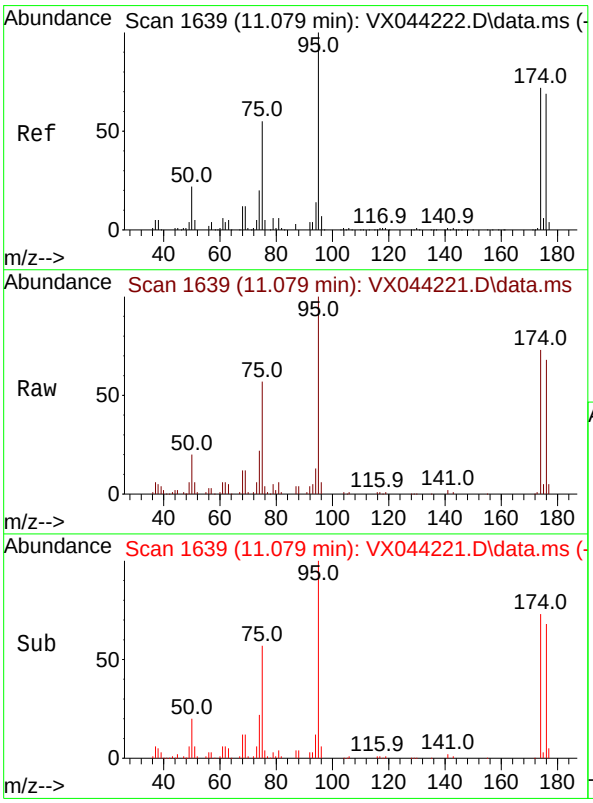
#61
1,2-Dibromoethane
Concen: 19.935 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 34978

Ion	Ratio	Lower	Upper
107	100		
109	94.4	77.0	115.4

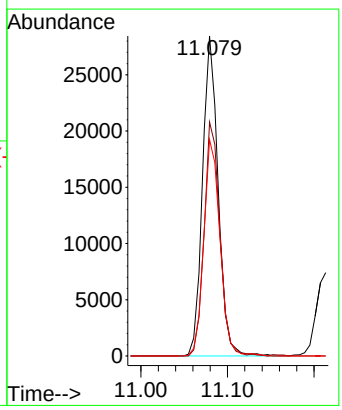


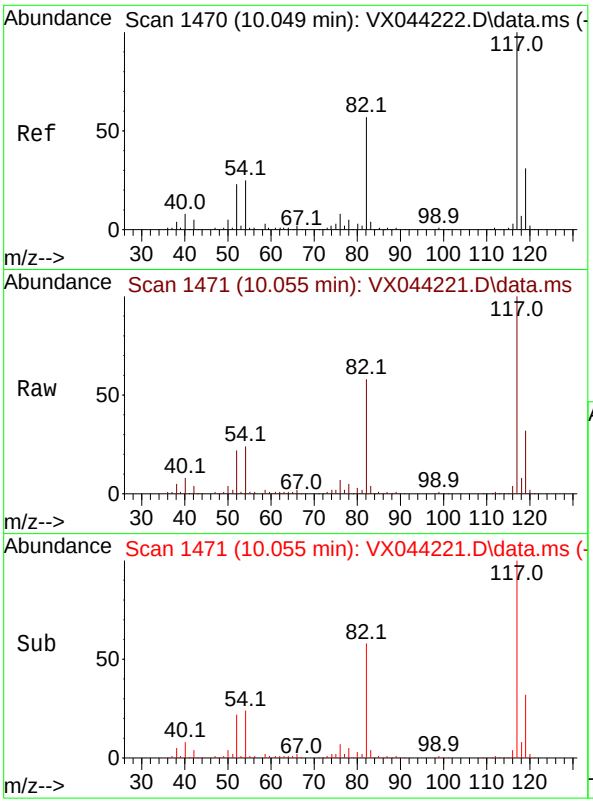


#62
4-Bromofluorobenzene
Concen: 17.175 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 95 Resp: 35645

Ion	Ratio	Lower	Upper
95	100		
174	73.3	0.0	145.8
176	70.5	0.0	137.8



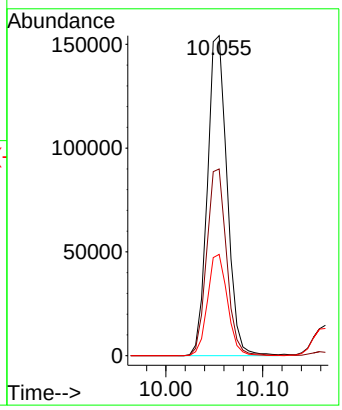


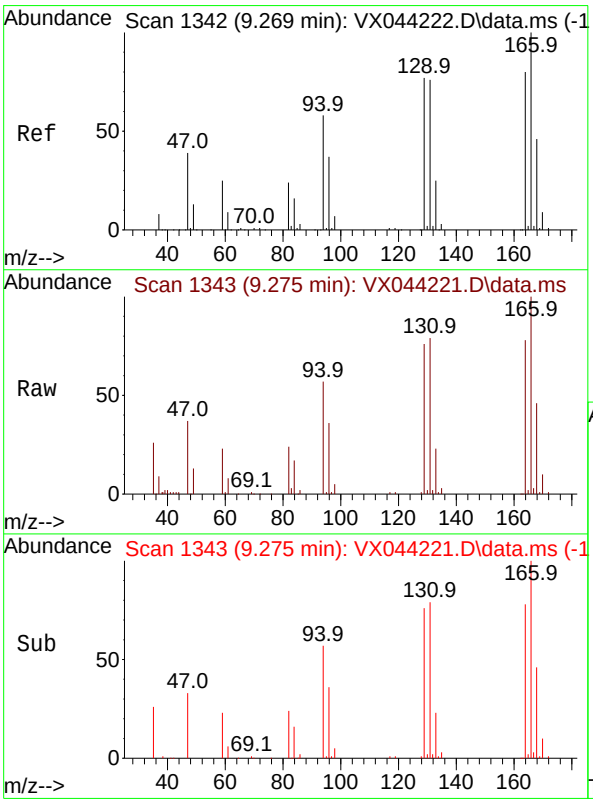
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 218148

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.8	68.8
119	31.6	25.0	37.4

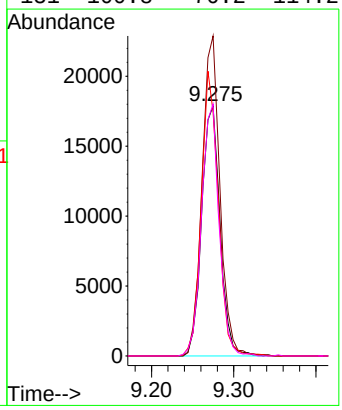


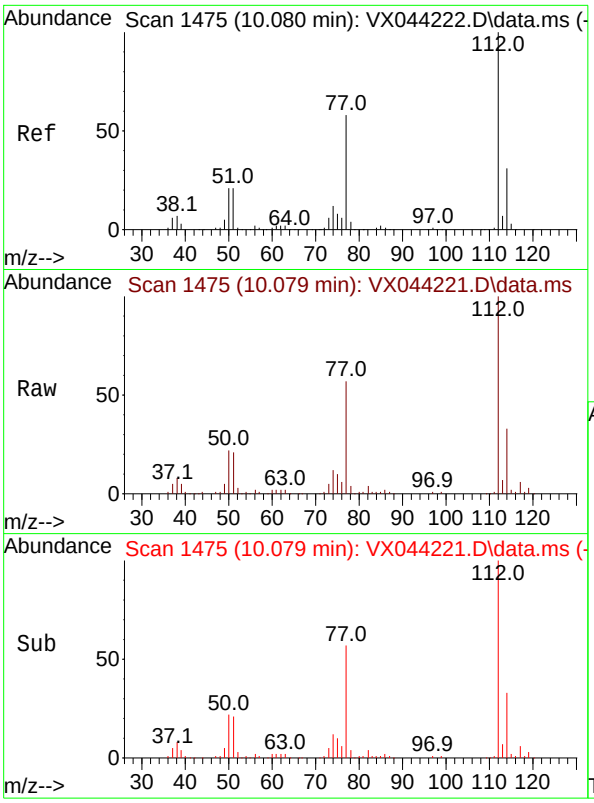


#64
Tetrachloroethene
Concen: 19.133 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:164 Resp: 27702

Ion	Ratio	Lower	Upper
164	100		
166	128.0	100.4	150.6
129	97.5	77.2	115.8
131	100.8	76.2	114.2



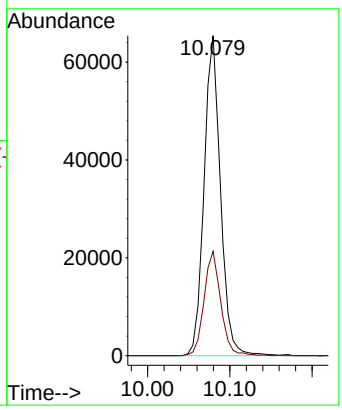


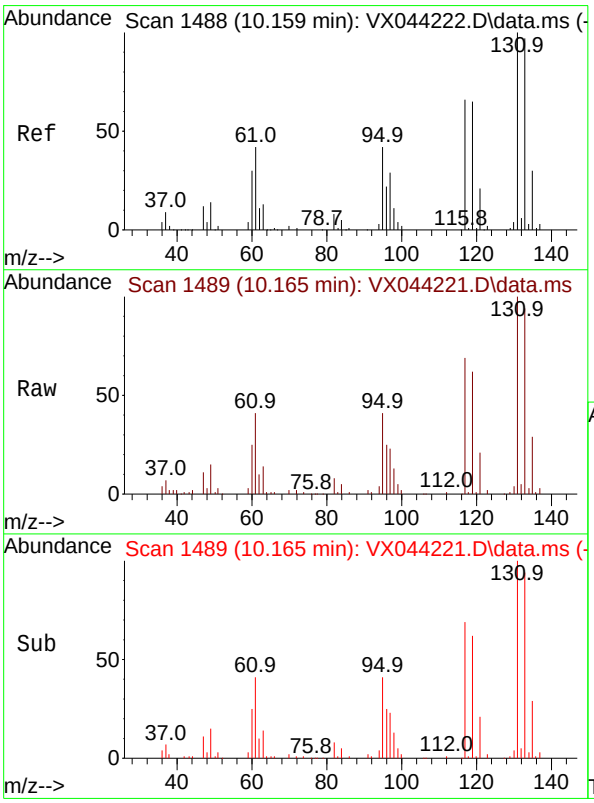
#65
Chlorobenzene
Concen: 19.389 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 90631

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.0	37.6

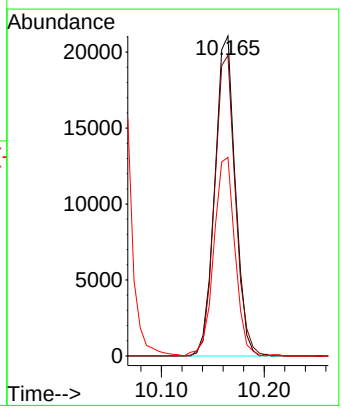


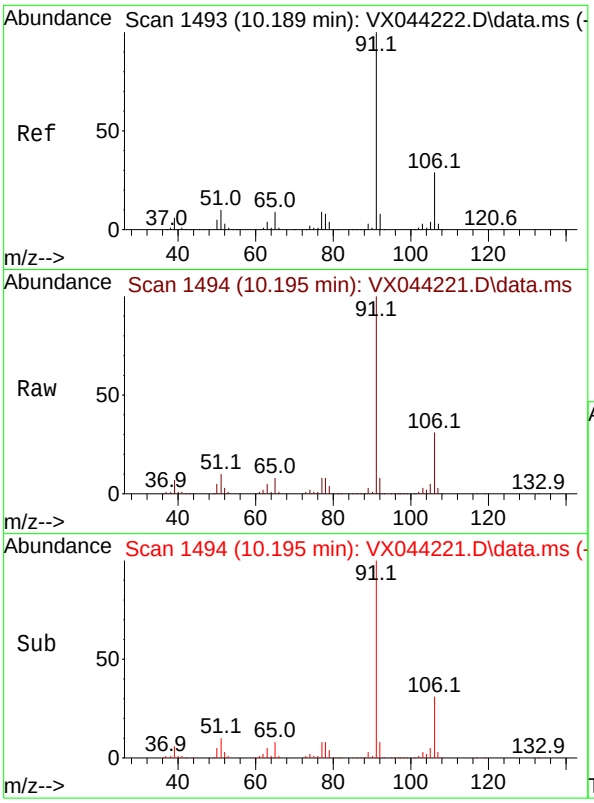


#66
1,1,1,2-Tetrachloroethane
Concen: 19.392 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:131 Resp: 29132

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.3	141.8
119	64.0	31.6	95.0



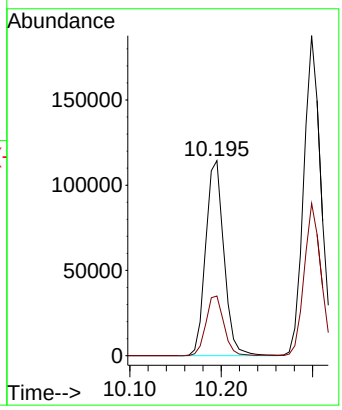


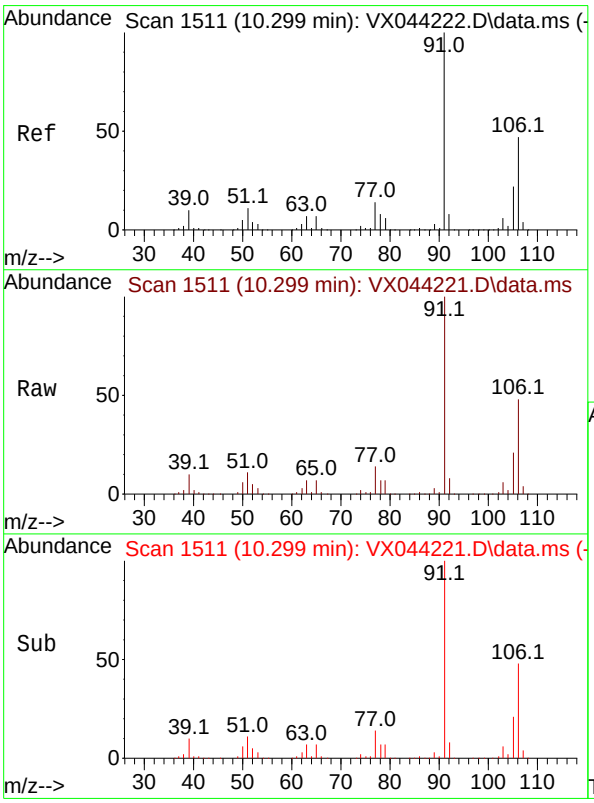
#67
Ethyl Benzene
Concen: 19.619 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 158455

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3

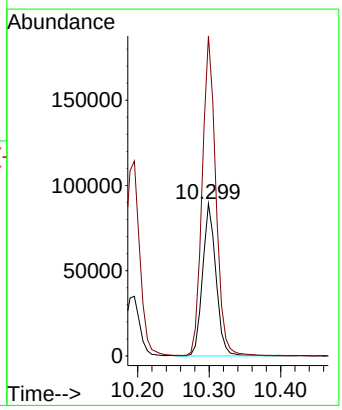


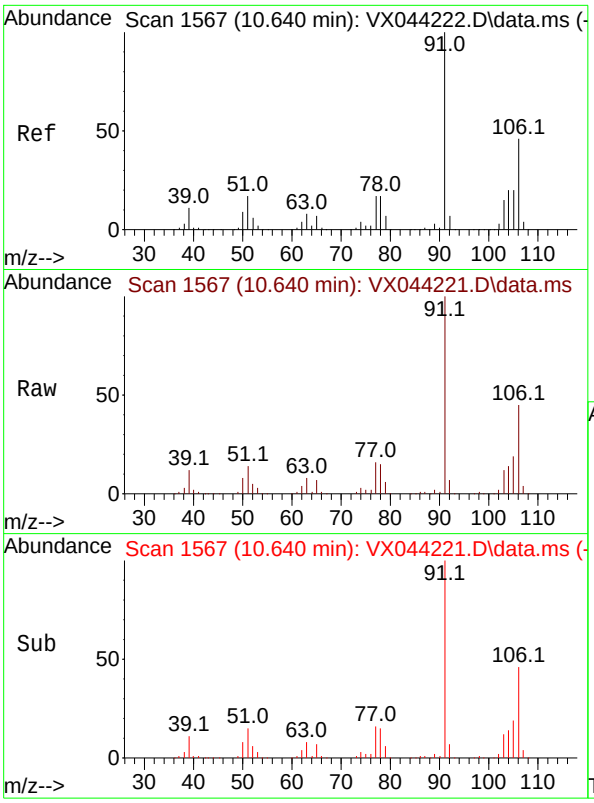


#68
m/p-Xylenes
Concen: 39.183 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:106 Resp: 116126

Ion	Ratio	Lower	Upper
106	100		
91	215.5	170.2	255.2



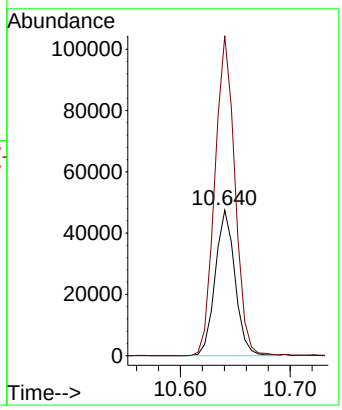


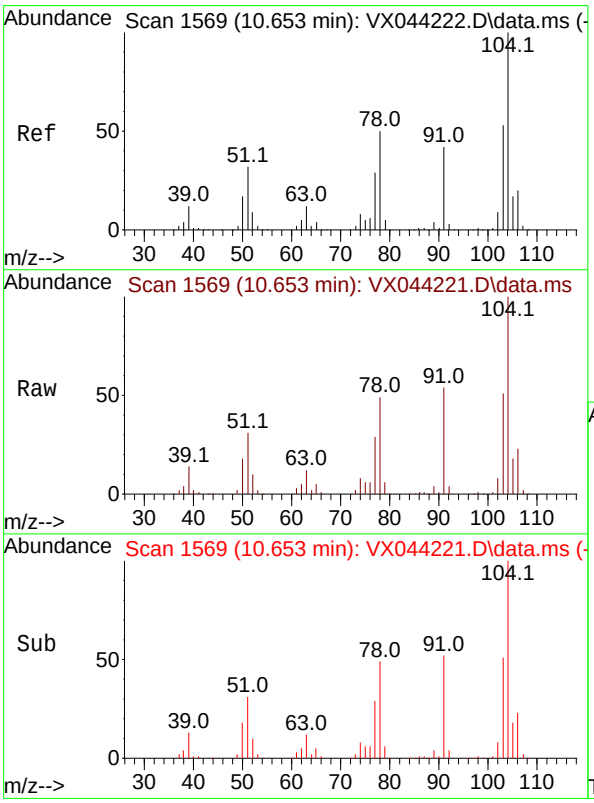
#69
o-Xylene
Concen: 19.938 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 59787

Ion	Ratio	Lower	Upper
106	100		
91	223.6	112.3	337.0

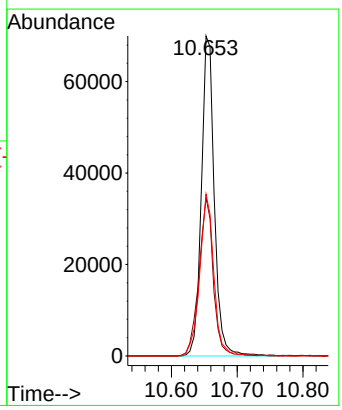


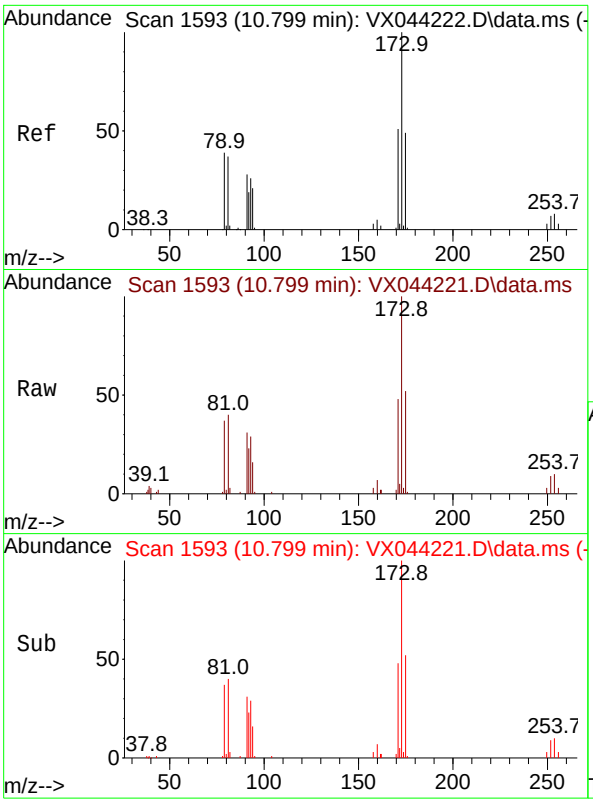


#70
Styrene
Concen: 19.946 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:104 Resp: 95883

Ion	Ratio	Lower	Upper
104	100		
78	54.7	44.6	67.0
103	55.2	45.4	68.0



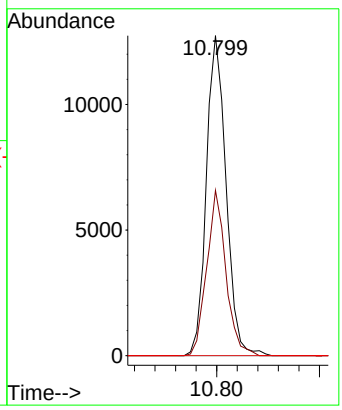


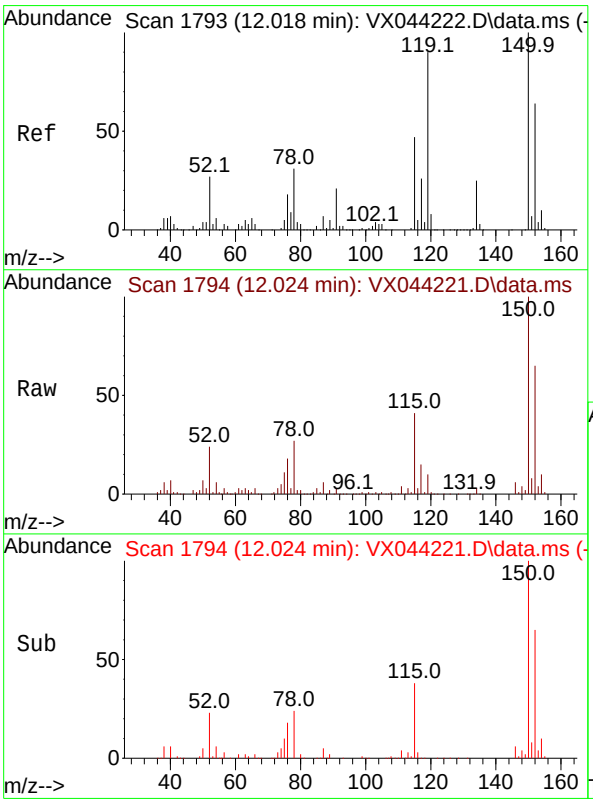
#71
Bromoform
Concen: 18.112 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 16924

Ion	Ratio	Lower	Upper
173	100		
175	50.5	23.8	71.4
254	0.0	0.0	0.0

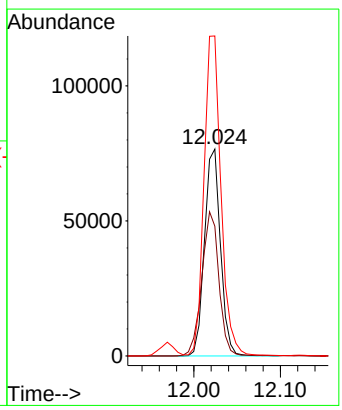


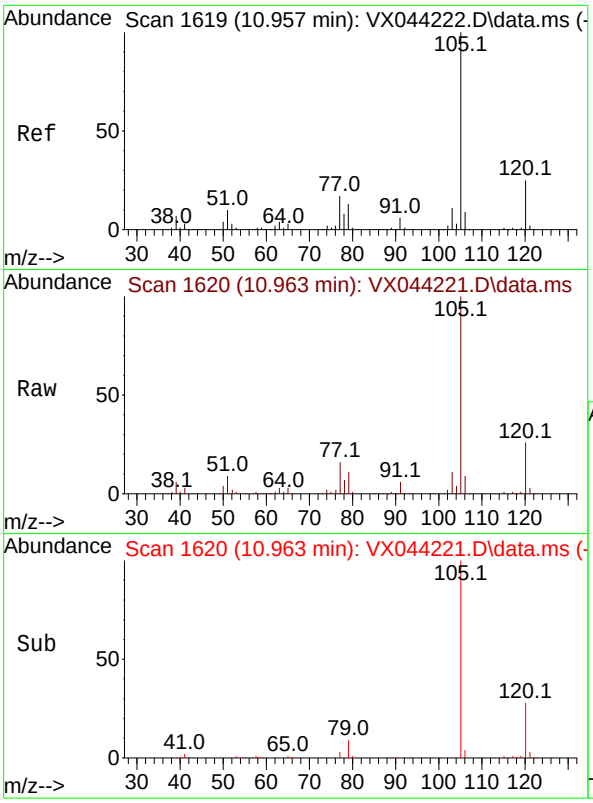


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:152 Resp: 98180

Ion	Ratio	Lower	Upper
152	100		
115	74.8	44.5	133.3
150	164.2	0.0	353.8



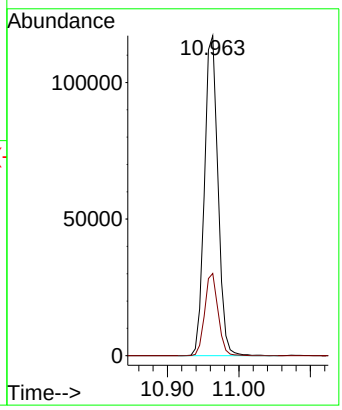


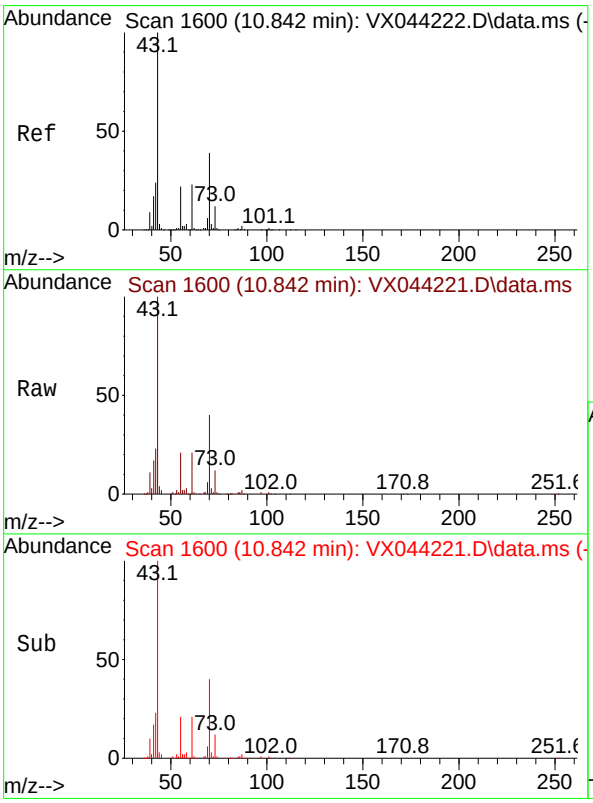
#73
Isopropylbenzene
Concen: 20.481 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 153935

Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.1	39.3

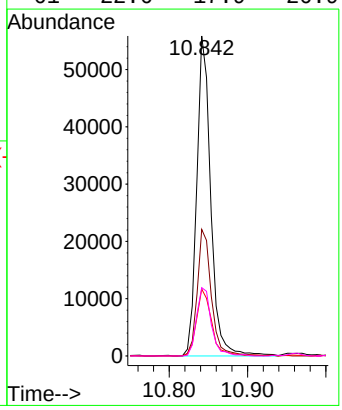


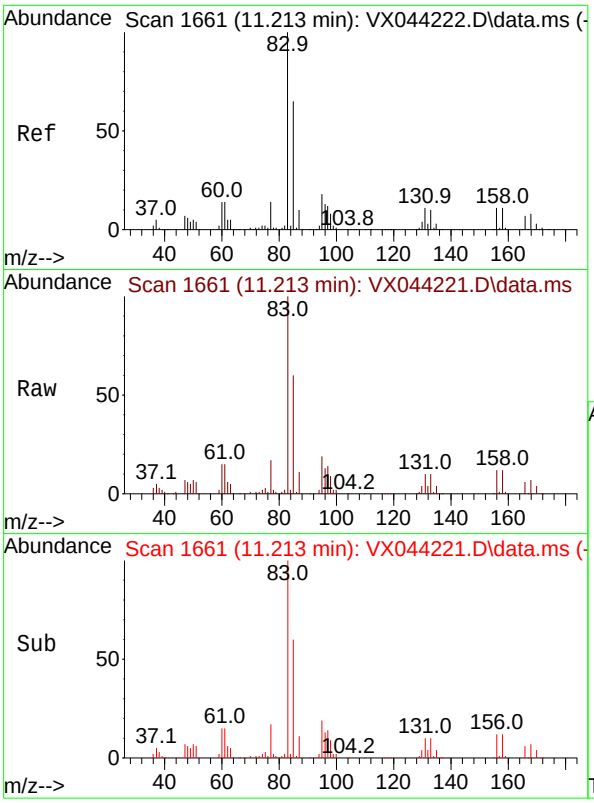


#74
N-amyl acetate
Concen: 20.049 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 43 Resp: 69643

Ion	Ratio	Lower	Upper
43	100		
70	39.8	31.9	47.9
55	22.8	17.9	26.9
61	22.6	17.9	26.9



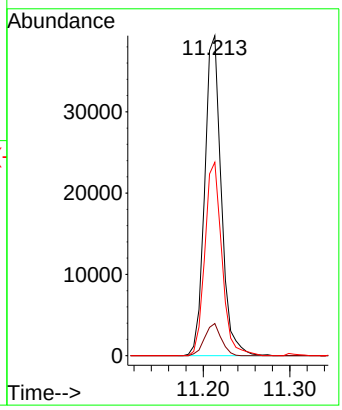


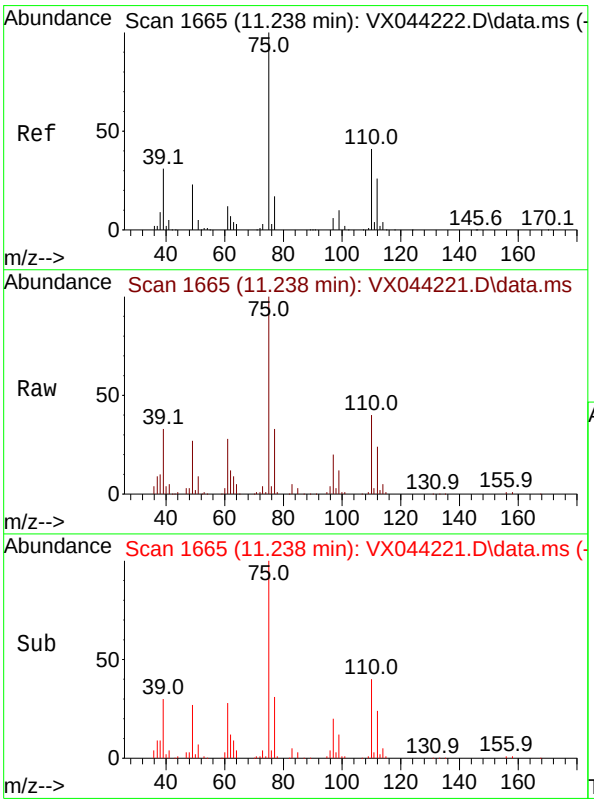
#75
1,1,2,2-Tetrachloroethane
Concen: 20.039 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 52312

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	62.1	32.5	97.4

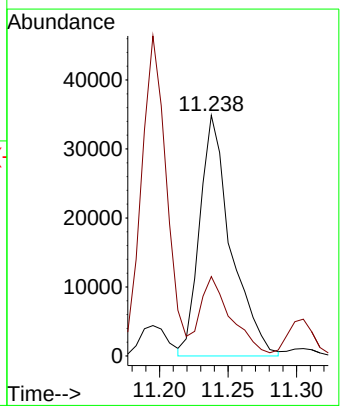


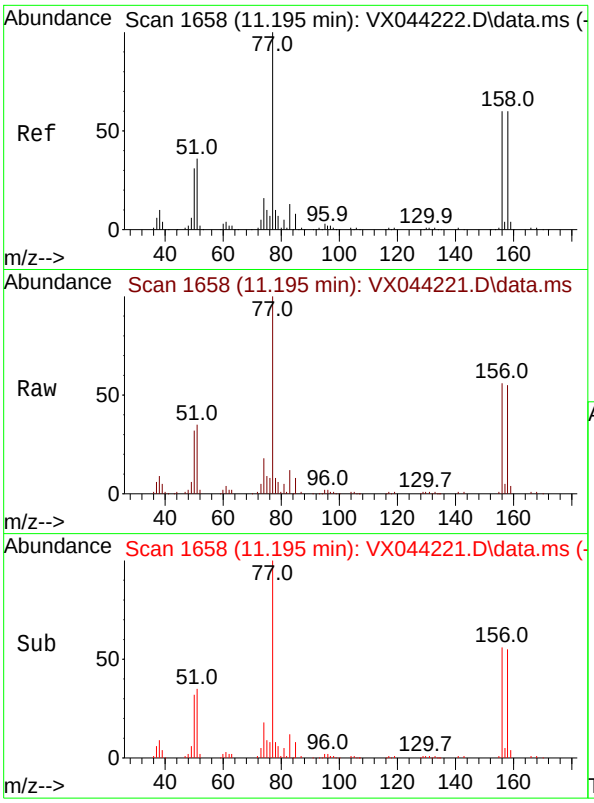


#76
1,2,3-Trichloropropane
Concen: 24.859 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 55384

Ion	Ratio	Lower	Upper
75	100		
77	33.2	20.9	62.7



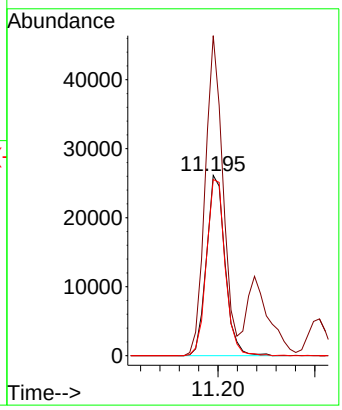


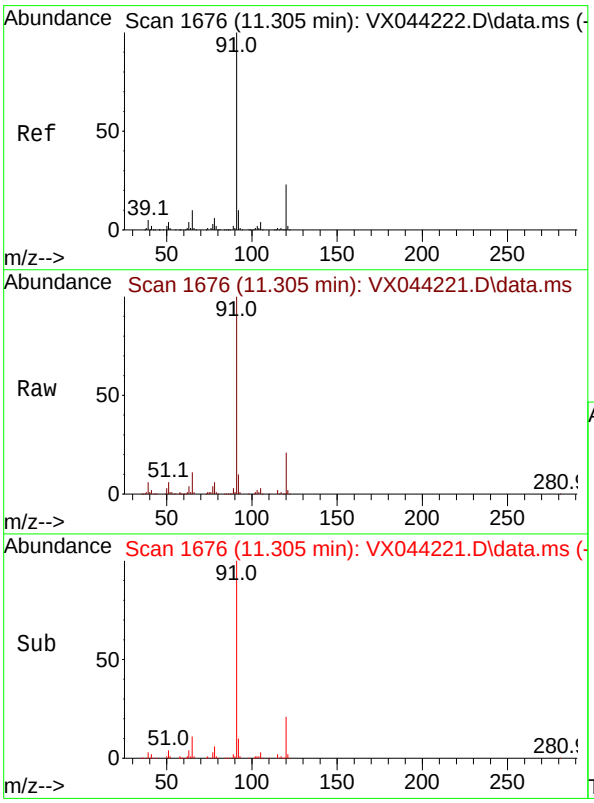
#77
Bromobenzene
Concen: 19.176 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 34951

Ion	Ratio	Lower	Upper
156	100		
77	169.4	82.6	247.8
158	98.1	48.8	146.4

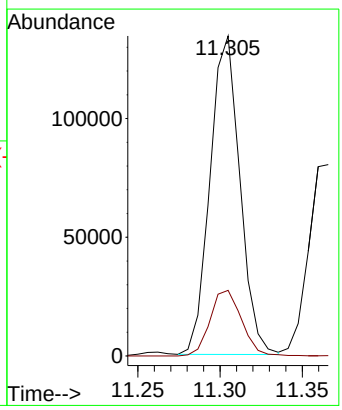


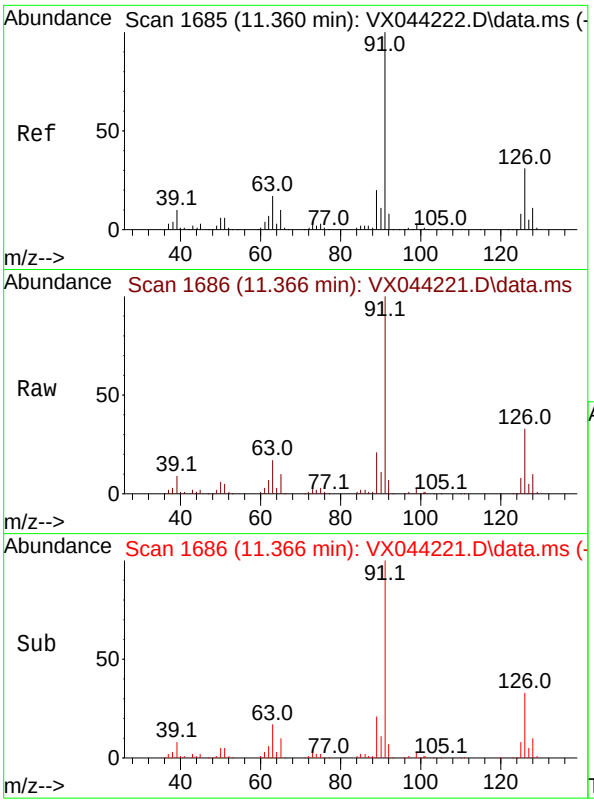


#78
n-propylbenzene
Concen: 20.419 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 169622

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.0	33.0



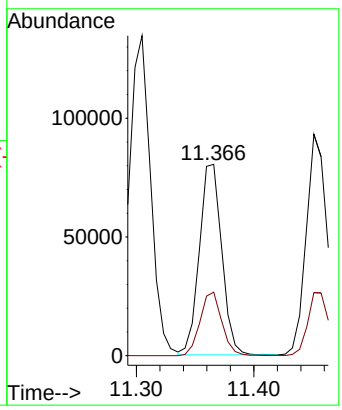


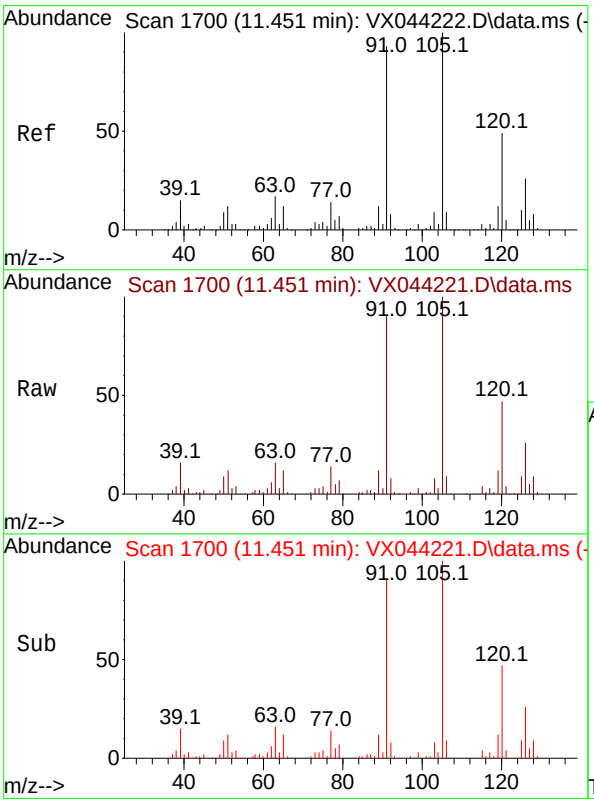
#79
2-Chlorotoluene
Concen: 19.788 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 106310

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.4	49.1

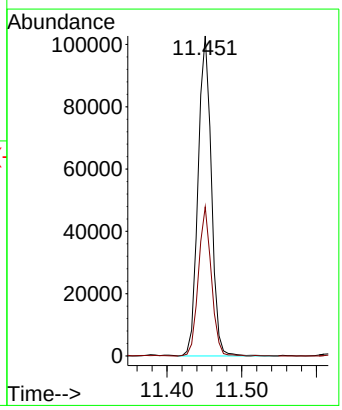


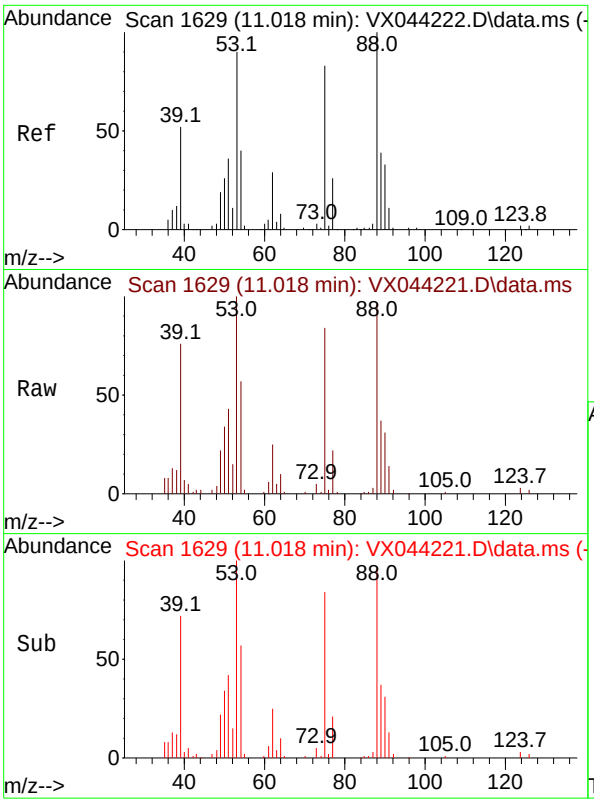


#80
1,3,5-Trimethylbenzene
Concen: 20.315 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 126626

Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.8	71.4



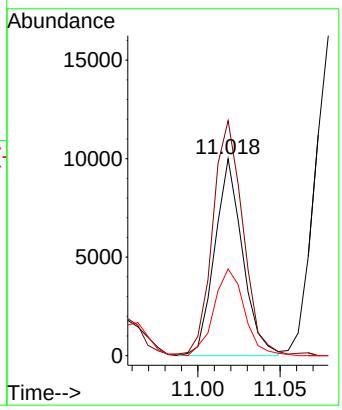


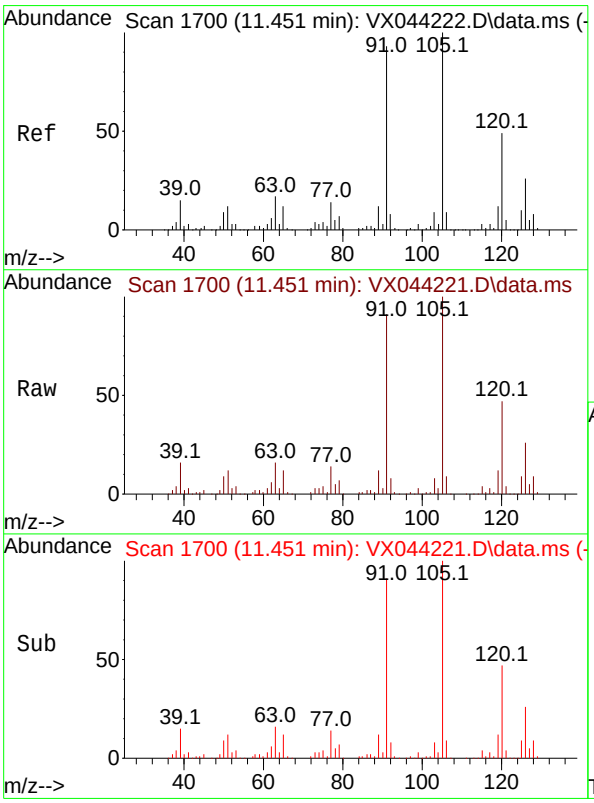
#81
trans-1,4-Dichloro-2-butene
Concen: 19.264 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 11784

Ion	Ratio	Lower	Upper
75	100		
53	130.8	93.6	140.4
89	48.1	37.3	55.9

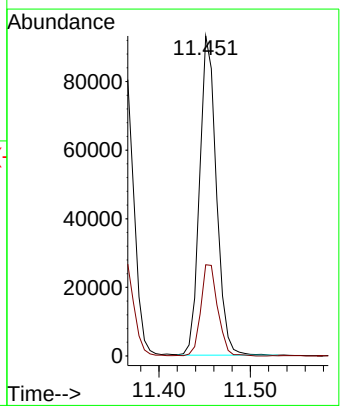


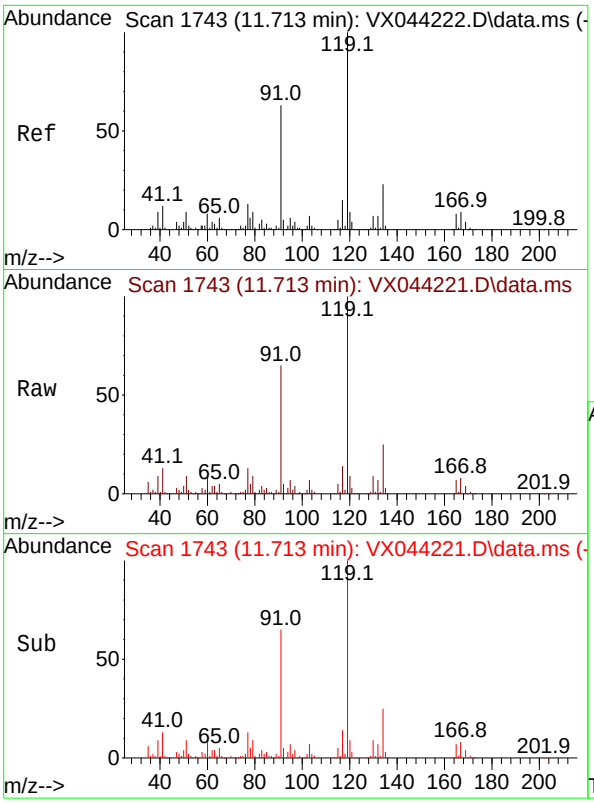


#82
4-Chlorotoluene
Concen: 19.886 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 91 Resp: 118309

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.5	43.5



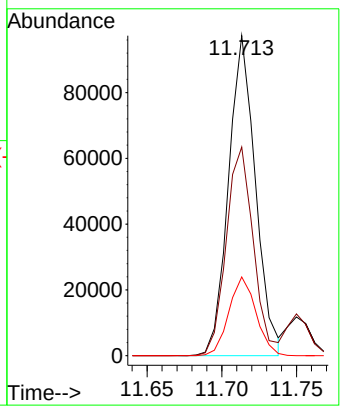


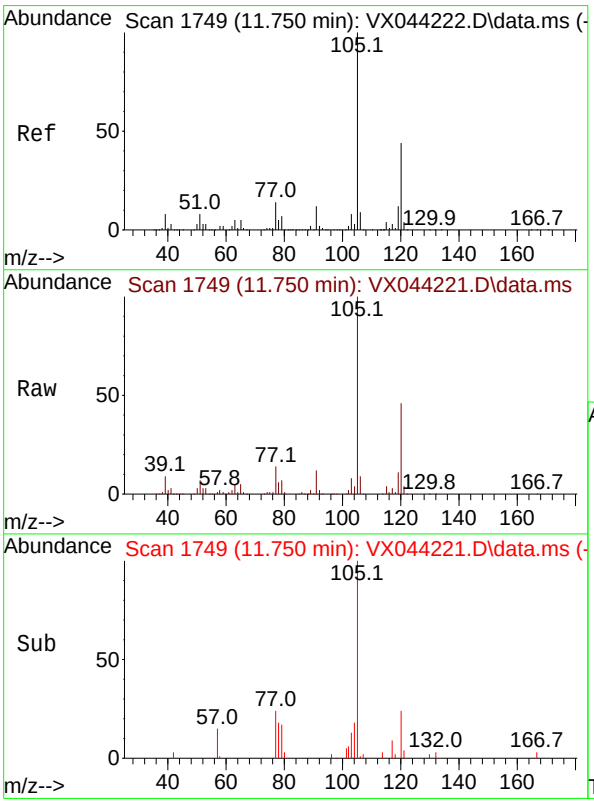
#83
tert-Butylbenzene
Concen: 19.794 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 121929

Ion	Ratio	Lower	Upper
119	100		
91	66.0	30.9	92.5
134	24.8	11.5	34.4

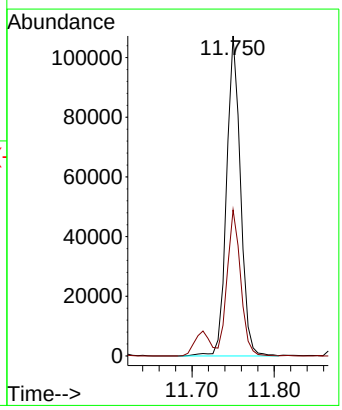


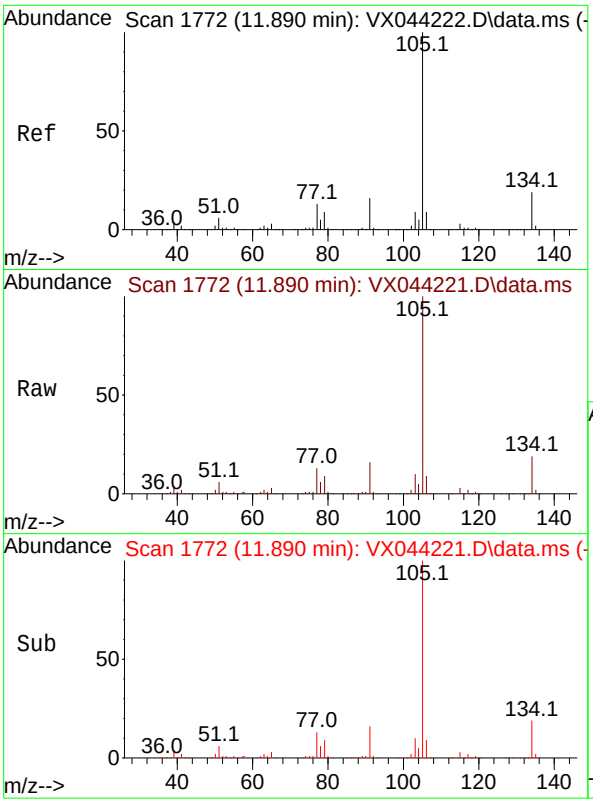


#84
1,2,4-Trimethylbenzene
Concen: 20.574 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:105 Resp: 125939

Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.7	65.1



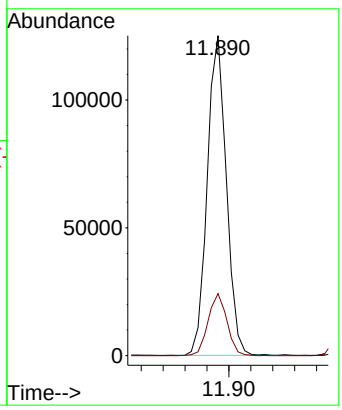


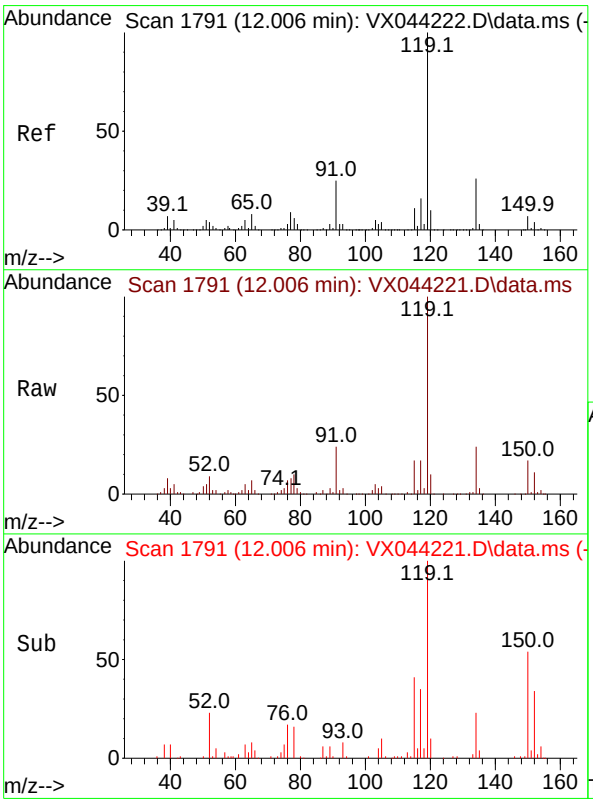
#85
sec-Butylbenzene
Concen: 20.165 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 150795

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4

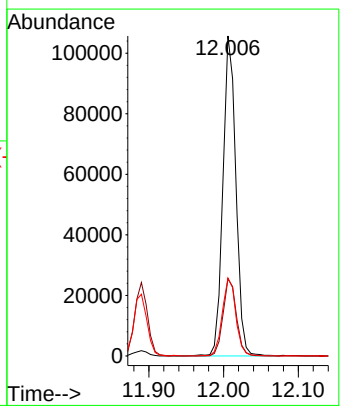


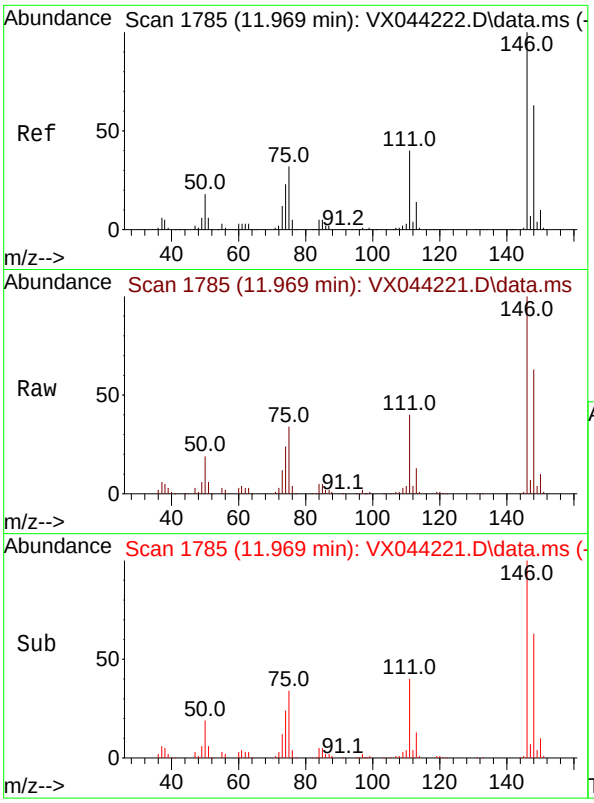


#86
p-Isopropyltoluene
Concen: 20.532 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:119 Resp: 127790

Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.8	38.4
91	25.4	13.0	39.0



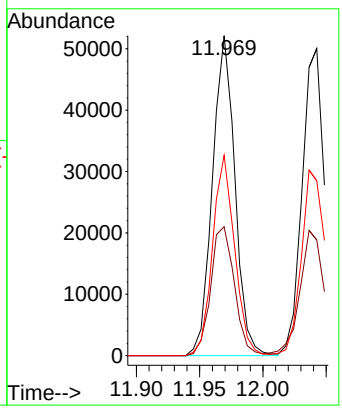


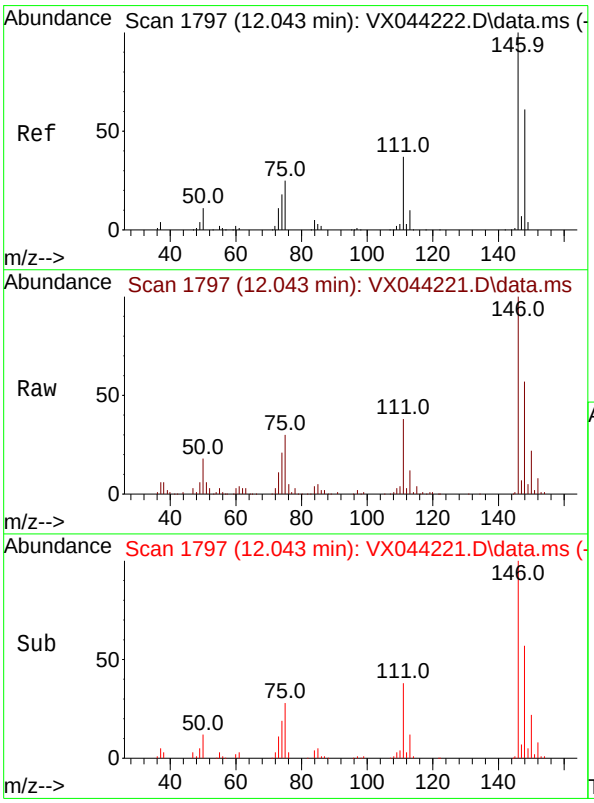
#87
1,3-Dichlorobenzene
Concen: 20.228 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 64399

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.2
148	61.4	31.7	95.1

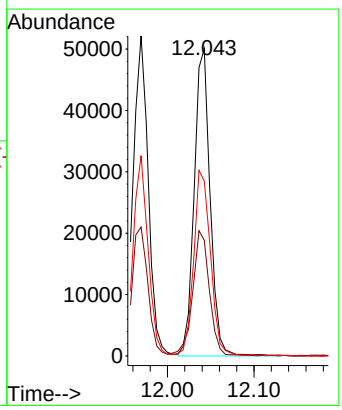


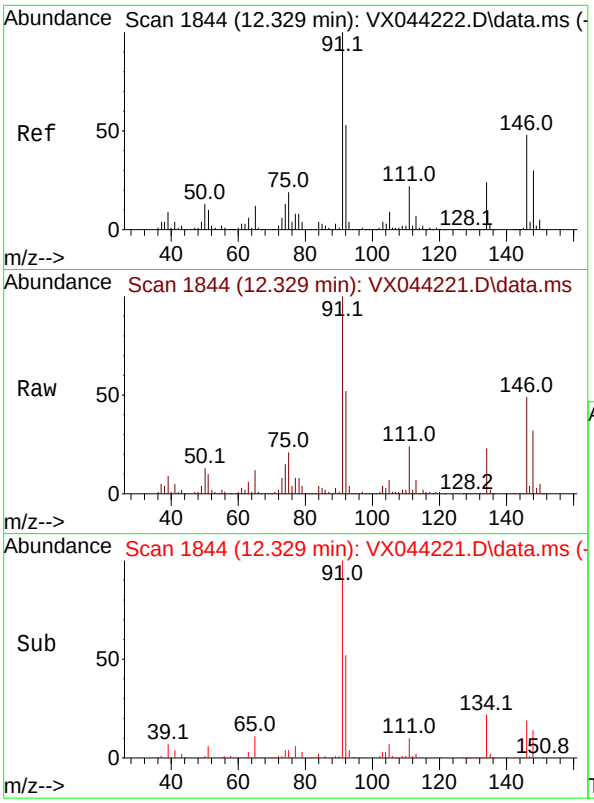


#88
1,4-Dichlorobenzene
Concen: 19.588 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:146 Resp: 64106

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.0	63.0
148	63.2	32.3	96.8



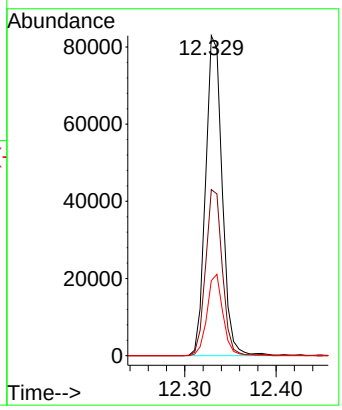


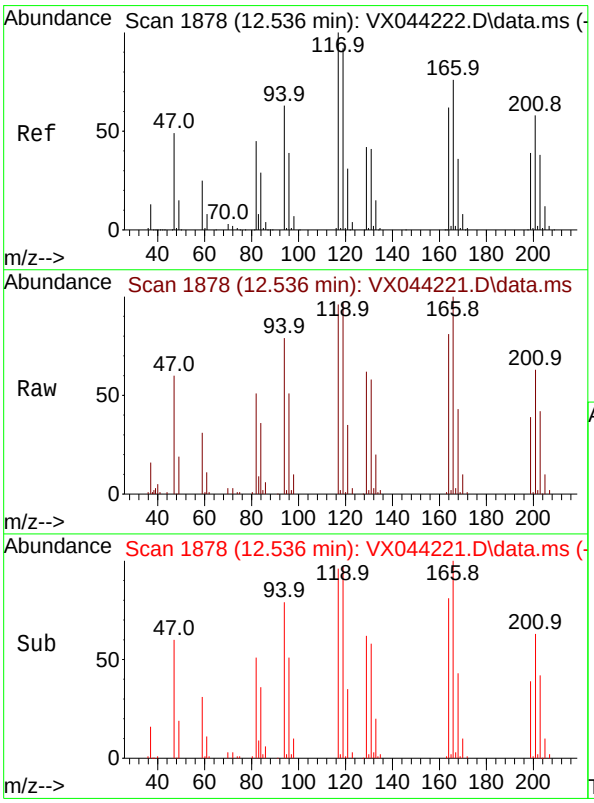
#89
n-Butylbenzene
Concen: 19.950 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 104410

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.6	79.7
134	24.4	12.6	37.8

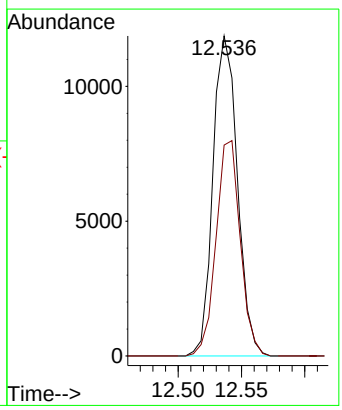


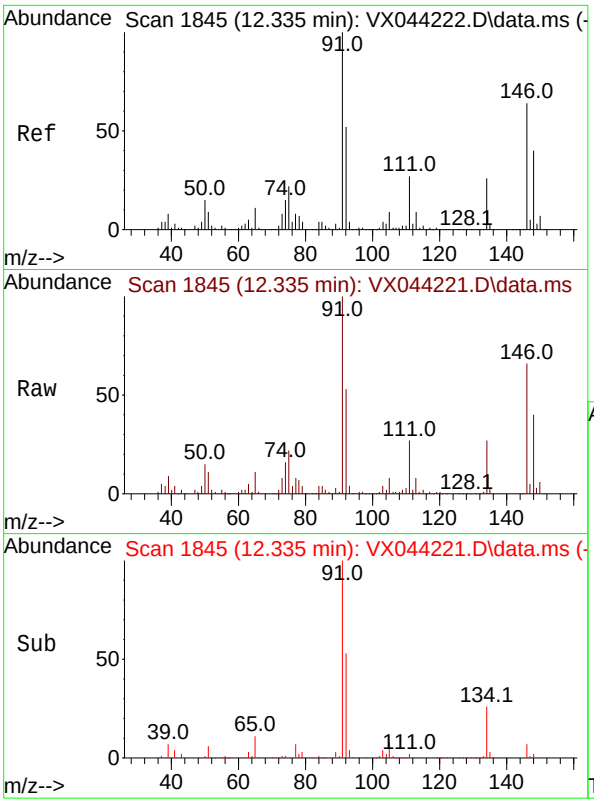


#90
Hexachloroethane
Concen: 17.543 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:117 Resp: 15939

Ion	Ratio	Lower	Upper
117	100		
201	66.8	31.4	94.2



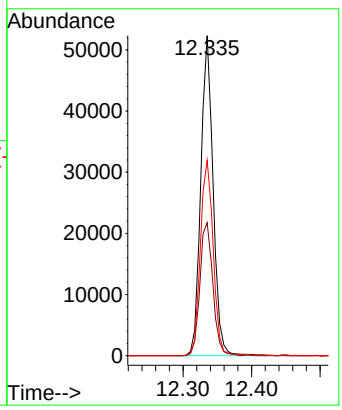


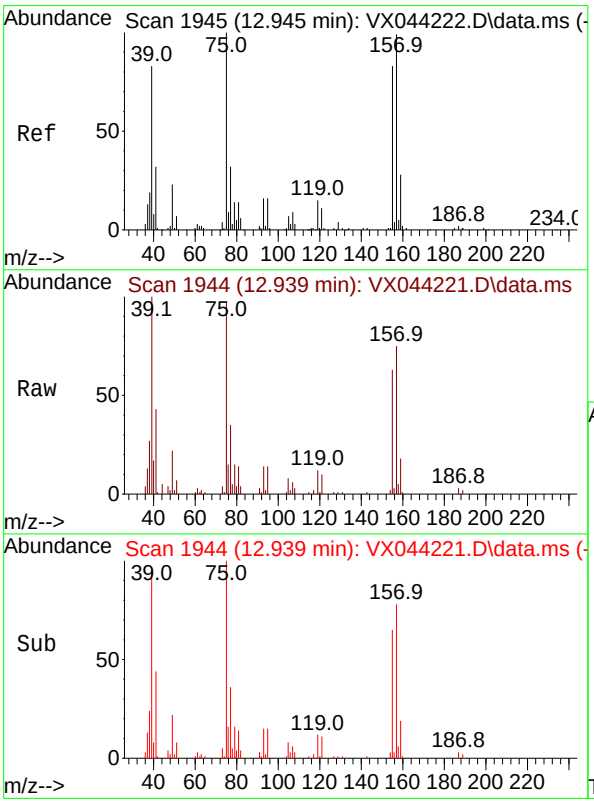
#91
1,2-Dichlorobenzene
Concen: 19.817 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 65511

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.4	64.3
148	63.5	31.6	95.0

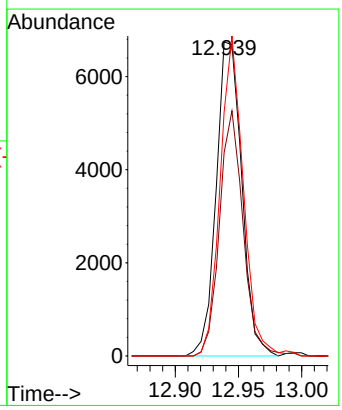


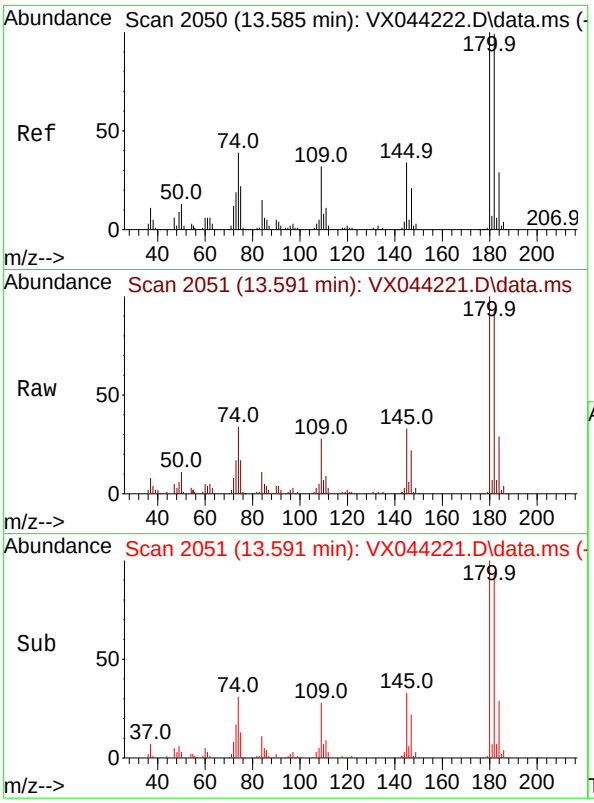


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.683 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion: 75 Resp: 9468

Ion	Ratio	Lower	Upper
75	100		
155	72.1	38.1	114.3
157	92.2	47.2	141.6



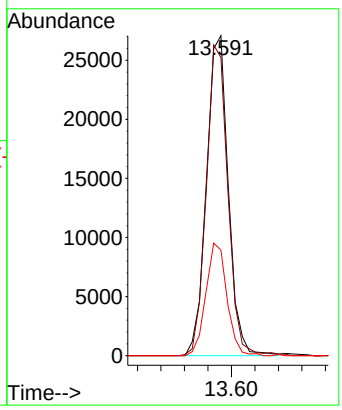


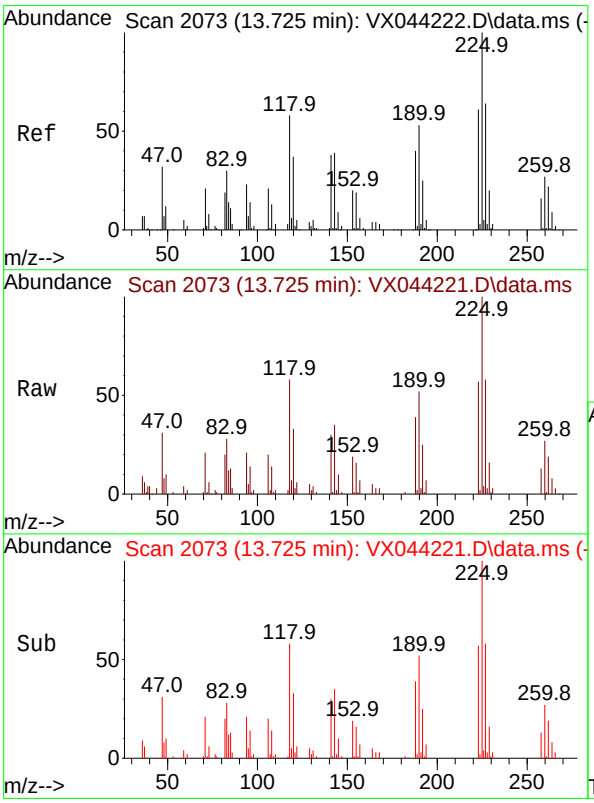
#93
1,2,4-Trichlorobenzene
Concen: 19.313 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 35001

Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.0	144.2
145	33.9	16.6	49.7

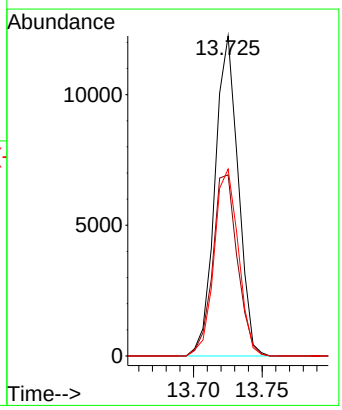


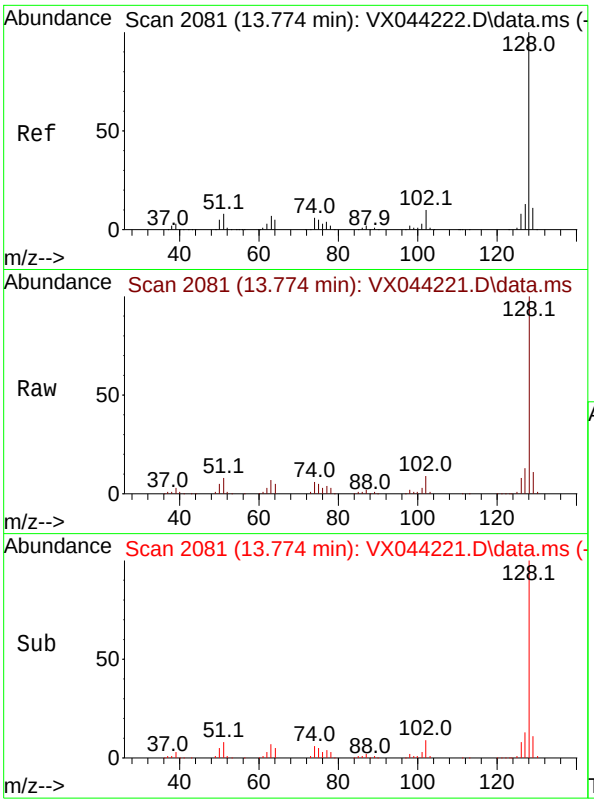


#94
Hexachlorobutadiene
Concen: 19.774 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:225 Resp: 14415

Ion	Ratio	Lower	Upper
225	100		
223	60.5	30.8	92.4
227	60.9	32.1	96.3



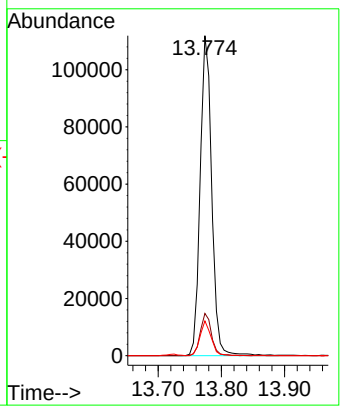


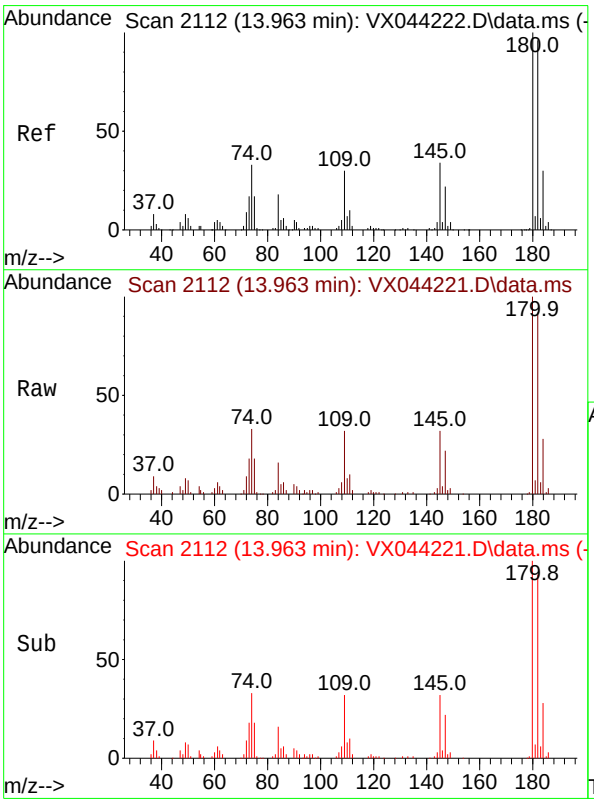
#95
Naphthalene
Concen: 20.146 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 142515

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.4	9.0	13.4

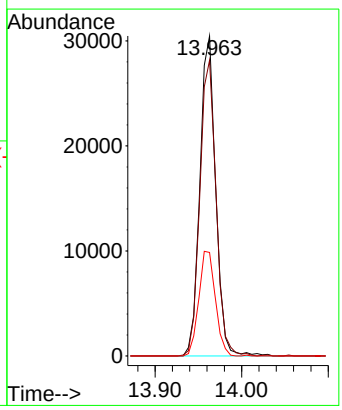




#96
1,2,3-Trichlorobenzene
Concen: 20.101 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044221.D
Acq: 11 Dec 2024 11:50

Tgt Ion:180 Resp: 38639

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.0
145	34.3	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	125713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233488	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	205196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95227	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	115815	52.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.080%			
35) Dibromofluoromethane	5.385	113	85656	52.968	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.940%			
50) Toluene-d8	8.647	98	292199	53.559	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.120%			
62) 4-Bromofluorobenzene	11.079	95	103178	54.123	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	99052	50.957	ug/l	100
3) Chloromethane	1.295	50	94981	51.097	ug/l	100
4) Vinyl Chloride	1.374	62	98852	51.045	ug/l	100
5) Bromomethane	1.593	94	69250	50.405	ug/l	100
6) Chloroethane	1.666	64	66862	55.448	ug/l	100
7) Trichlorofluoromethane	1.868	101	193676	51.086	ug/l	100
8) Diethyl Ether	2.136	74	64542	49.875	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	77275	50.371	ug/l	100
10) Methyl Iodide	2.441	142	106509	52.678	ug/l	100
11) Tert butyl alcohol	2.995	59	80988	261.121	ug/l	98
12) 1,1-Dichloroethene	2.307	96	74884	53.143	ug/l	100
13) Acrolein	2.239	56	116171	258.347	ug/l	100
14) Allyl chloride	2.654	41	126925	54.079	ug/l	100
15) Acrylonitrile	3.069	53	225330	261.859	ug/l	100
16) Acetone	2.392	43	239661	266.704	ug/l	100
17) Carbon Disulfide	2.502	76	144624	53.994	ug/l	100
18) Methyl Acetate	2.709	43	119808	51.710	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	289735	52.691	ug/l	100
20) Methylene Chloride	2.782	84	86593	51.305	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	77834	51.974	ug/l	100
22) Diisopropyl ether	3.764	45	273039	51.662	ug/l	100
23) Vinyl Acetate	3.721	43	1202044	279.754	ug/l	100
24) 1,1-Dichloroethane	3.605	63	156412	53.093	ug/l	100
25) 2-Butanone	4.562	43	344663	269.797	ug/l	100
26) 2,2-Dichloropropane	4.465	77	131428	54.914	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	97013	51.007	ug/l	100
28) Bromochloromethane	4.898	49	74477	51.555	ug/l	100
29) Tetrahydrofuran	5.007	42	212103	258.669	ug/l	100
30) Chloroform	5.087	83	168864	51.017	ug/l	100
31) Cyclohexane	5.465	56	122841	51.637	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	147834	53.806	ug/l	100
36) 1,1-Dichloropropene	5.690	75	103760	49.638	ug/l	100
37) Ethyl Acetate	4.721	43	135753	52.537	ug/l	100
38) Carbon Tetrachloride	5.672	117	117076	52.023	ug/l	100
39) Methylcyclohexane	7.373	83	129697	51.901	ug/l	100
40) Benzene	6.031	78	329154	51.863	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	70427	51.329	ug/l		100
42) 1,2-Dichloroethane	6.086	62	136309	52.138	ug/l		100
43) Isopropyl Acetate	6.342	43	213891	52.961	ug/l		100
44) Trichloroethene	7.123	130	81542	51.521	ug/l		100
45) 1,2-Dichloropropane	7.428	63	83376	51.420	ug/l		100
46) Dibromomethane	7.580	93	66786	53.092	ug/l		100
47) Bromodichloromethane	7.824	83	118634	54.607	ug/l		100
48) Methyl methacrylate	7.696	41	103726	52.909	ug/l		100
49) 1,4-Dioxane	7.671	88	28266	843.658	ug/l	#	77
51) 4-Methyl-2-Pentanone	8.574	43	688666	265.203	ug/l		100
52) Toluene	8.714	92	204738	51.370	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	120007	51.362	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	132286	55.923	ug/l		100
55) 1,1,2-Trichloroethane	9.153	97	83488	52.729	ug/l		100
56) Ethyl methacrylate	9.116	69	134770	53.917	ug/l		100
57) 1,3-Dichloropropane	9.305	76	143044	51.904	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	342592	271.745	ug/l		100
59) 2-Hexanone	9.433	43	512906	272.881	ug/l		100
60) Dibromochloromethane	9.519	129	86352	51.400	ug/l		100
61) 1,2-Dibromoethane	9.604	107	86150	53.454	ug/l		100
64) Tetrachloroethene	9.269	164	65888	48.379	ug/l		100
65) Chlorobenzene	10.080	112	223269	50.779	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	76867	54.396	ug/l		100
67) Ethyl Benzene	10.189	91	395430	52.050	ug/l		100
68) m/p-Xylenes	10.299	106	290181	104.094	ug/l		100
69) o-Xylene	10.640	106	144247	51.141	ug/l		100
70) Styrene	10.653	104	238379	52.719	ug/l		100
71) Bromoform	10.799	173	50667	51.158	ug/l	#	100
73) Isopropylbenzene	10.957	105	372519	51.100	ug/l		100
74) N-amyl acetate	10.842	43	182491	54.166	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.213	83	127193	50.233	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	139805	64.698	ug/l		85
77) Bromobenzene	11.195	156	89687	50.734	ug/l		100
78) n-propylbenzene	11.305	91	428741	53.211	ug/l		100
79) 2-Chlorotoluene	11.360	91	263849	50.634	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	314986	52.102	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	35119	47.628	ug/l		100
82) 4-Chlorotoluene	11.451	91	296520	51.387	ug/l		100
83) tert-Butylbenzene	11.713	119	310320	51.940	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	313338	52.776	ug/l		100
85) sec-Butylbenzene	11.890	105	379552	52.329	ug/l		100
86) p-Isopropyltoluene	12.006	119	318721	52.796	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	160223	51.887	ug/l		100
88) 1,4-Dichlorobenzene	12.043	146	159258	50.171	ug/l		100
89) n-Butylbenzene	12.329	91	270840	53.354	ug/l		100
90) Hexachloroethane	12.536	117	48303	54.813	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	164342	51.256	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26027	52.951	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	93173	53.005	ug/l		100
94) Hexachlorobutadiene	13.725	225	35172	49.744	ug/l		100
95) Naphthalene	13.774	128	365234	53.230	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	97000	52.027	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

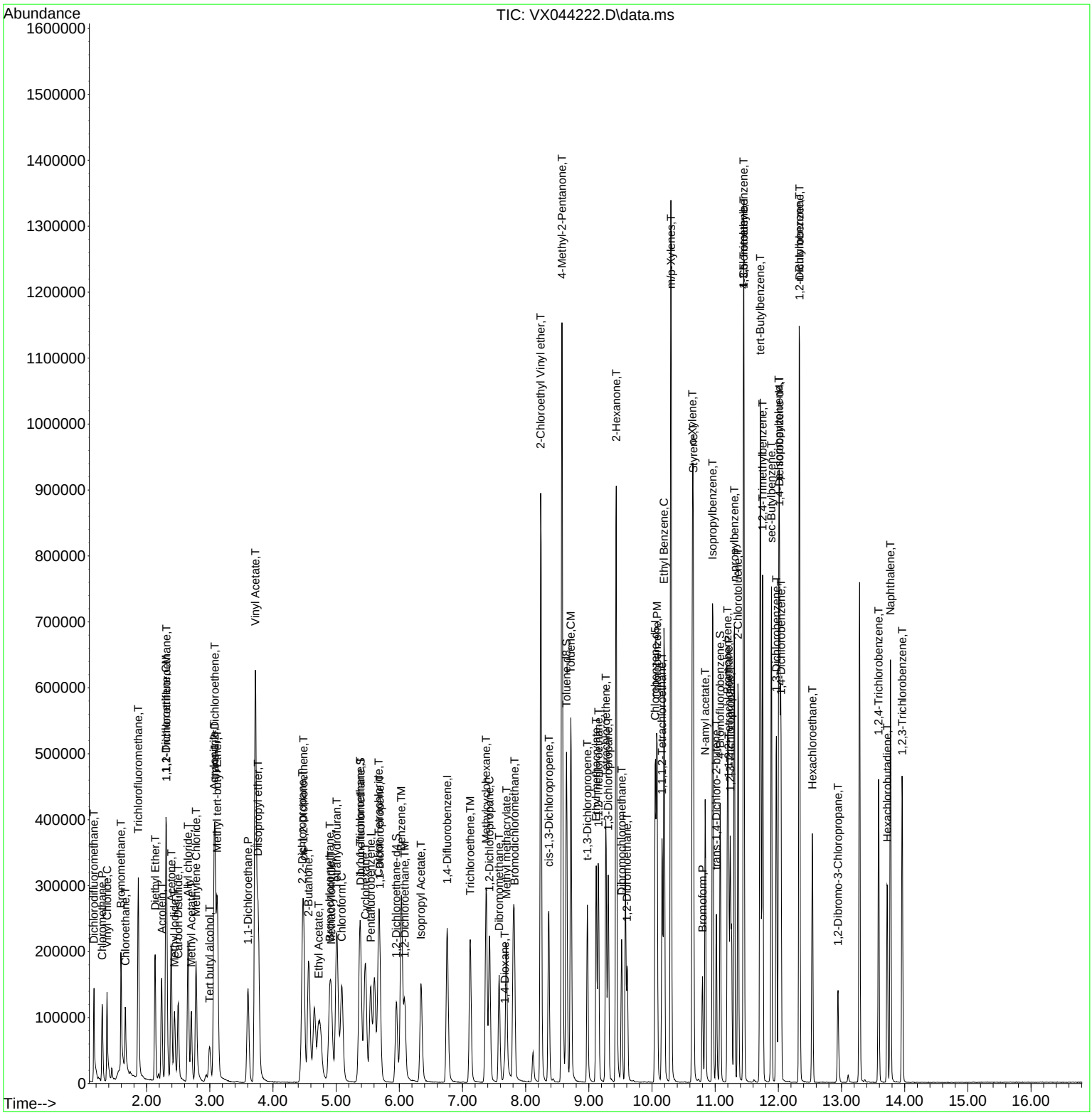
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

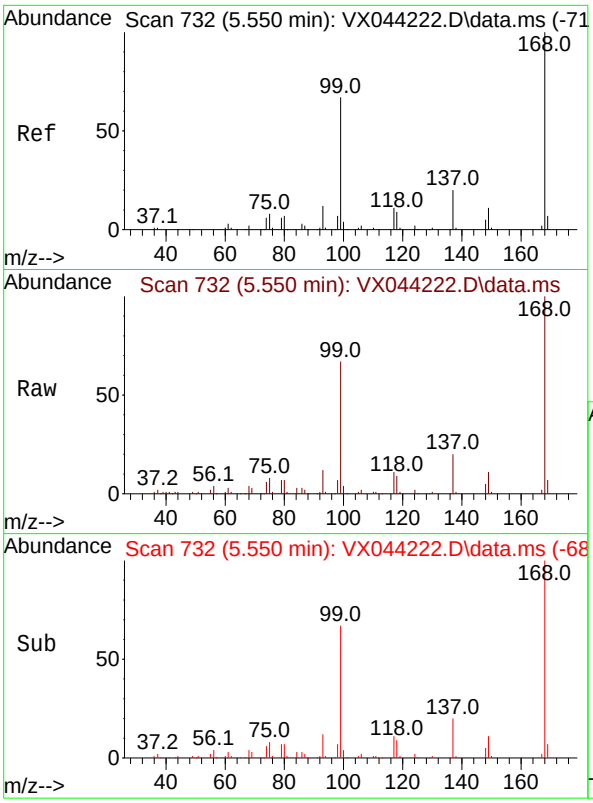
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044222.D
Acq On : 11 Dec 2024 12:14
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Dec 12 04:15:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



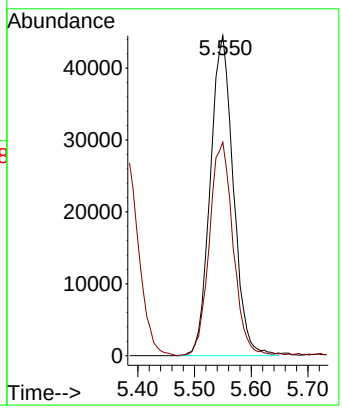


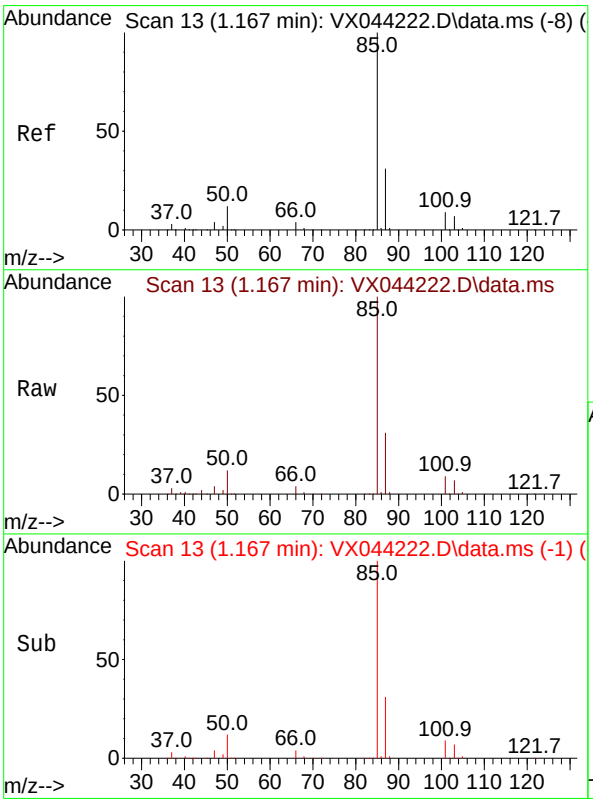
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 125713

Ion	Ratio	Lower	Upper
168	100		
99	66.7	53.4	80.0

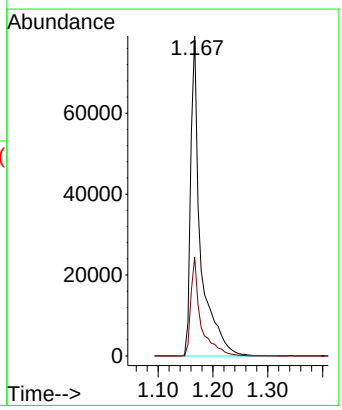


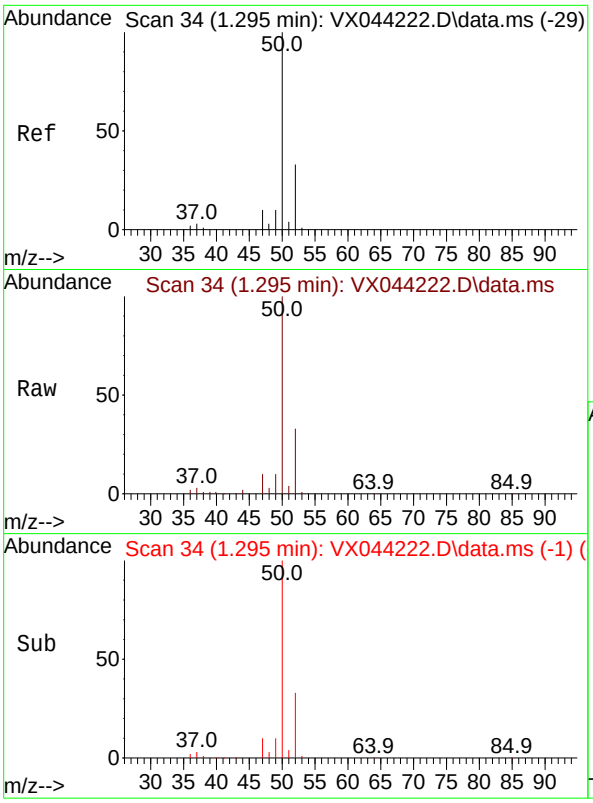


#2
Dichlorodifluoromethane
Concen: 50.957 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 85 Resp: 99052

Ion	Ratio	Lower	Upper
85	100		
87	30.9	15.4	46.4



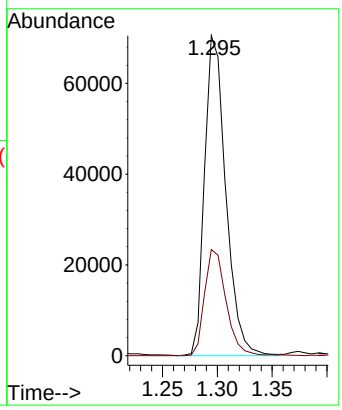


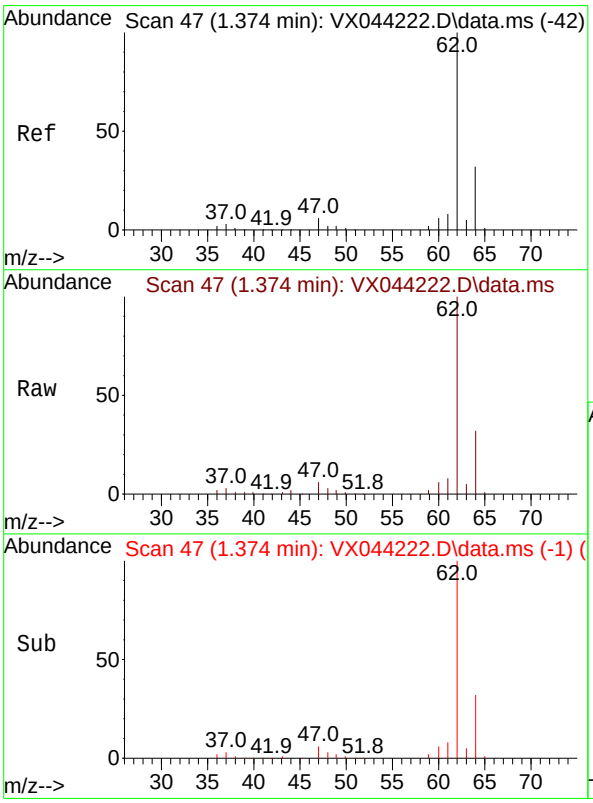
#3
Chloromethane
Concen: 51.097 ug/l
RT: 1.295 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 94981

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.5	39.7

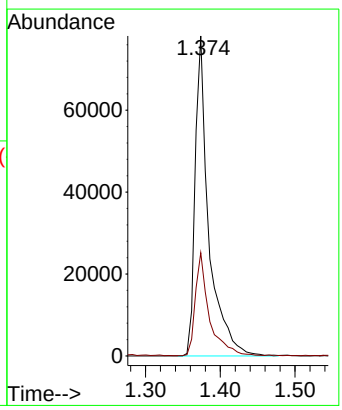


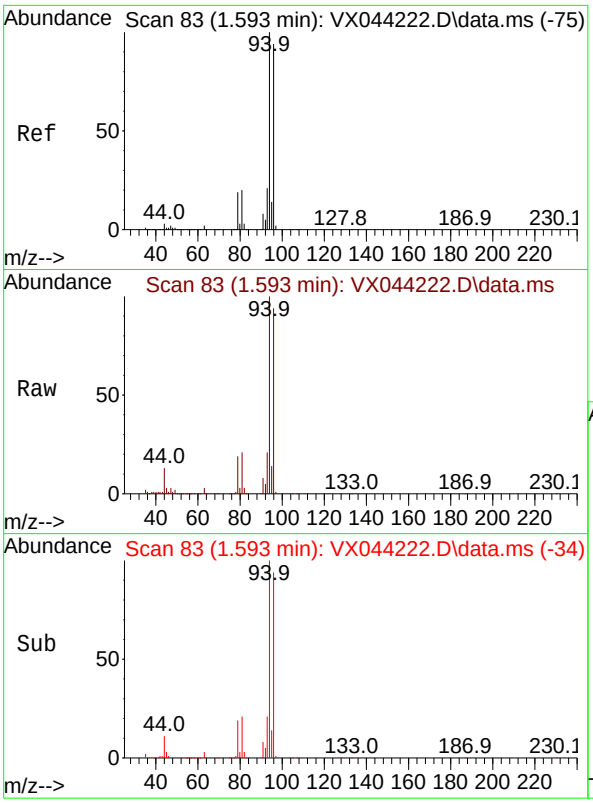


#4
Vinyl Chloride
Concen: 51.045 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 98852

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5



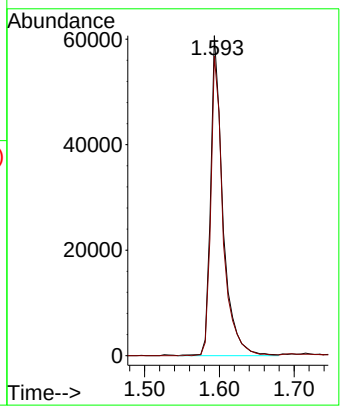


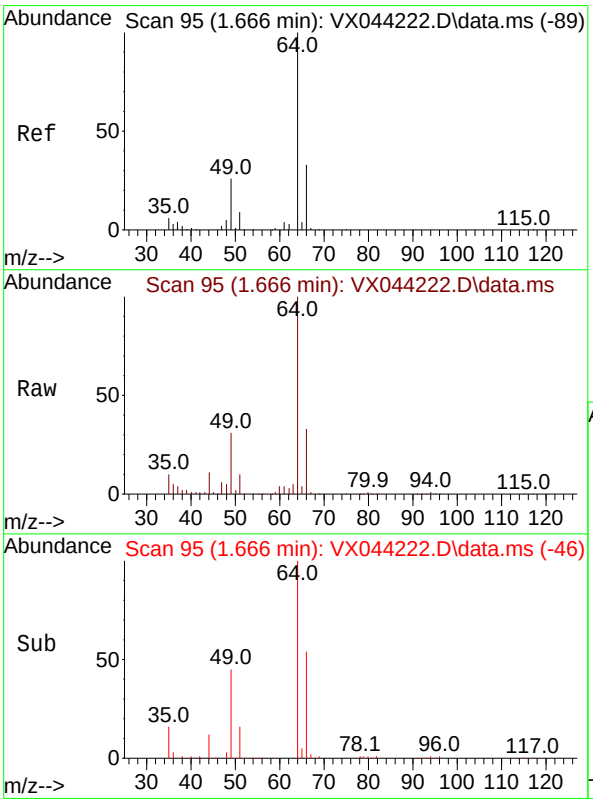
#5
Bromomethane
Concen: 50.405 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 69250

Ion	Ratio	Lower	Upper
94	100		
96	93.6	74.9	112.3

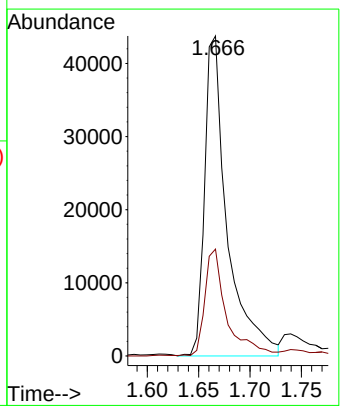


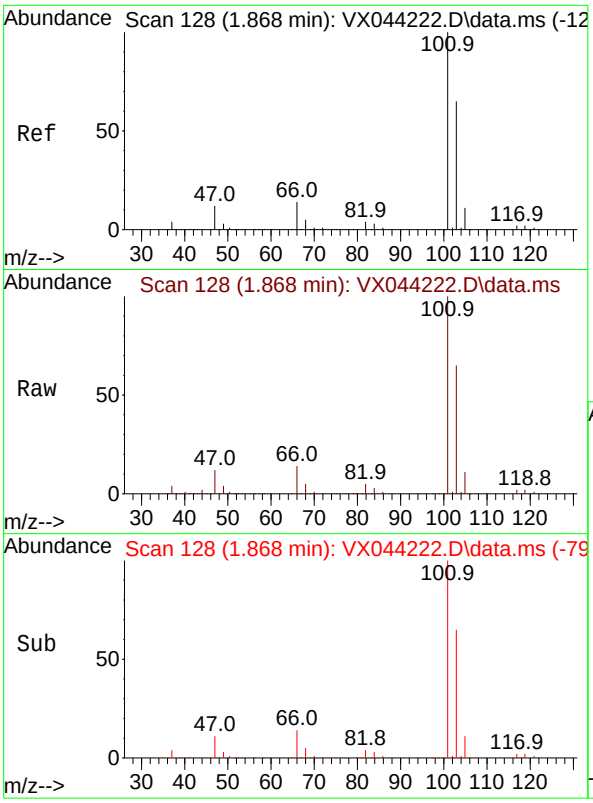


#6
Chloroethane
Concen: 55.448 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 64 Resp: 66862

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8



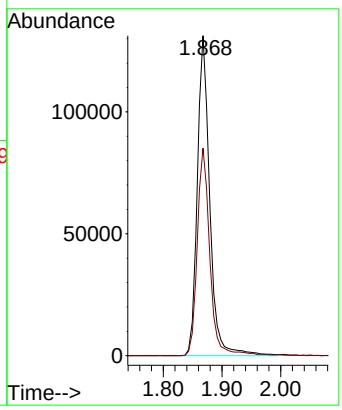


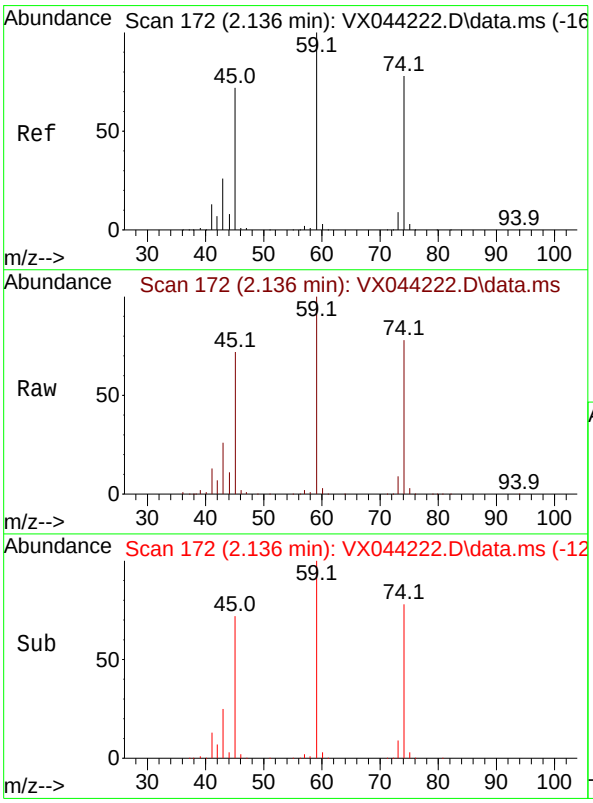
#7
Trichlorofluoromethane
Concen: 51.086 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 193676

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.8	77.8

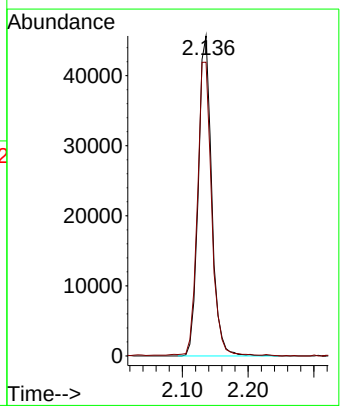


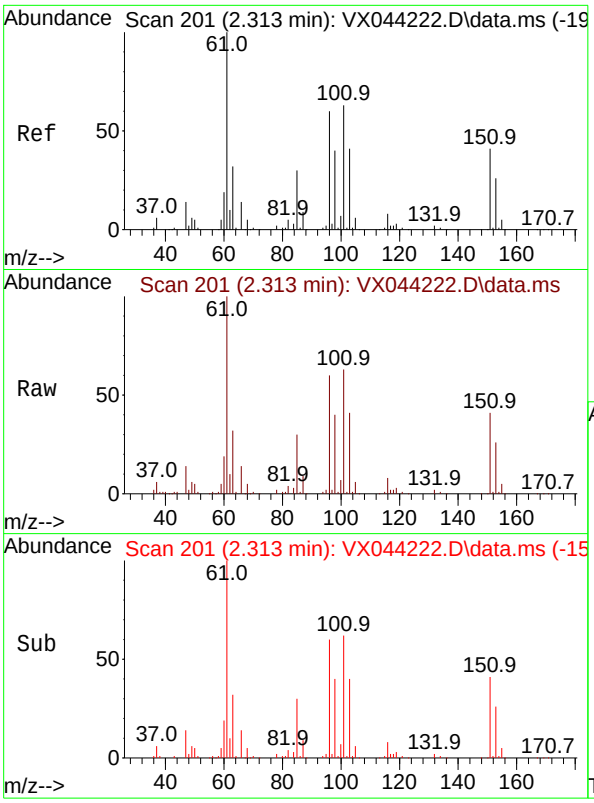


#8
Diethyl Ether
Concen: 49.875 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 74 Resp: 64542

Ion	Ratio	Lower	Upper
74	100		
45	96.7	48.4	145.0



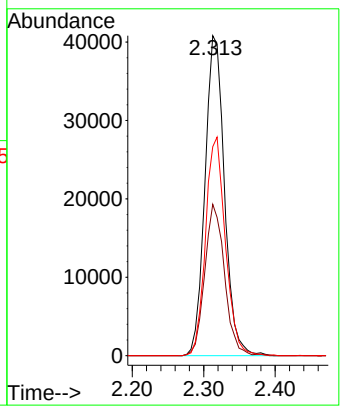


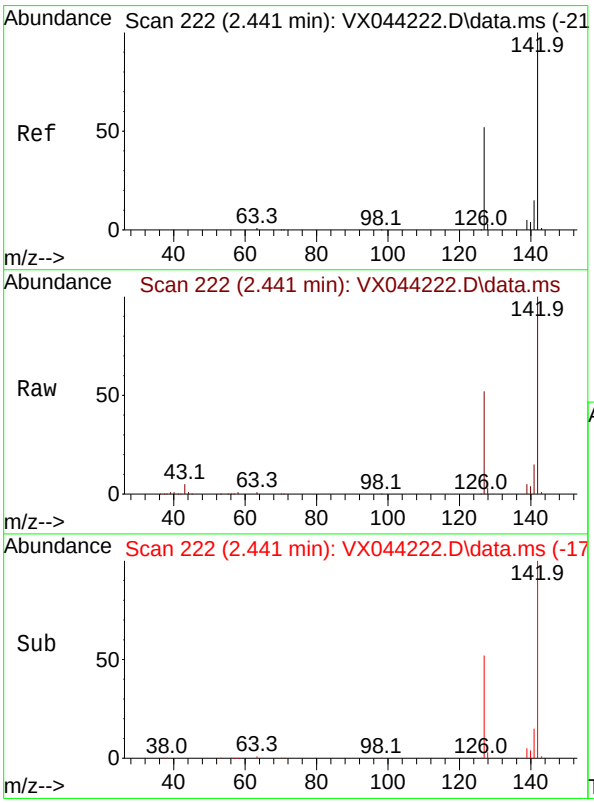
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.371 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 77275

Ion	Ratio	Lower	Upper
101	100		
85	48.1	38.5	57.7
151	69.7	55.8	83.6

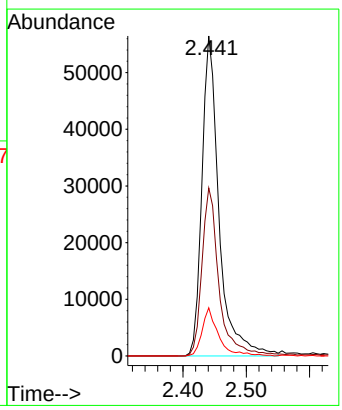


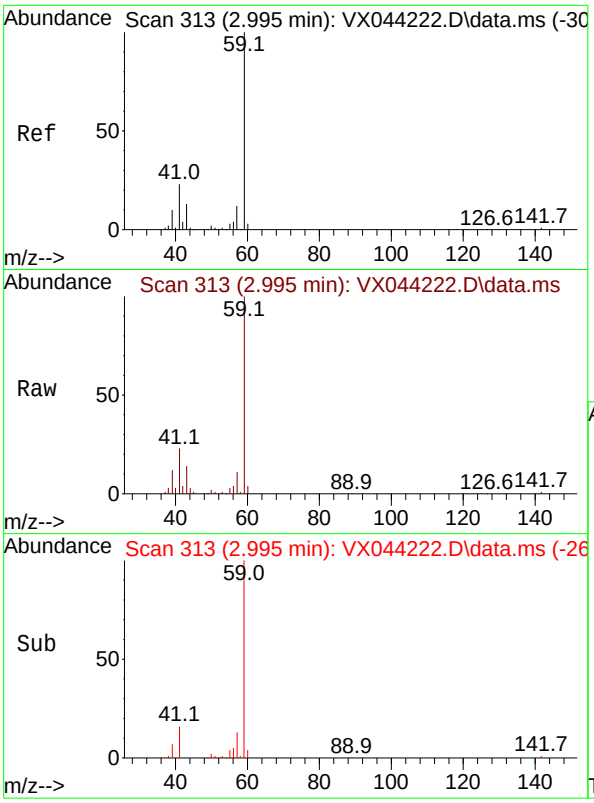


#10
Methyl Iodide
Concen: 52.678 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:142 Resp: 106509

Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.4	11.5	17.3



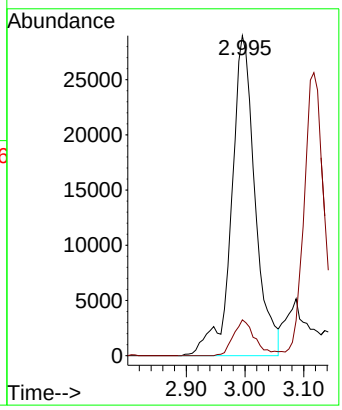


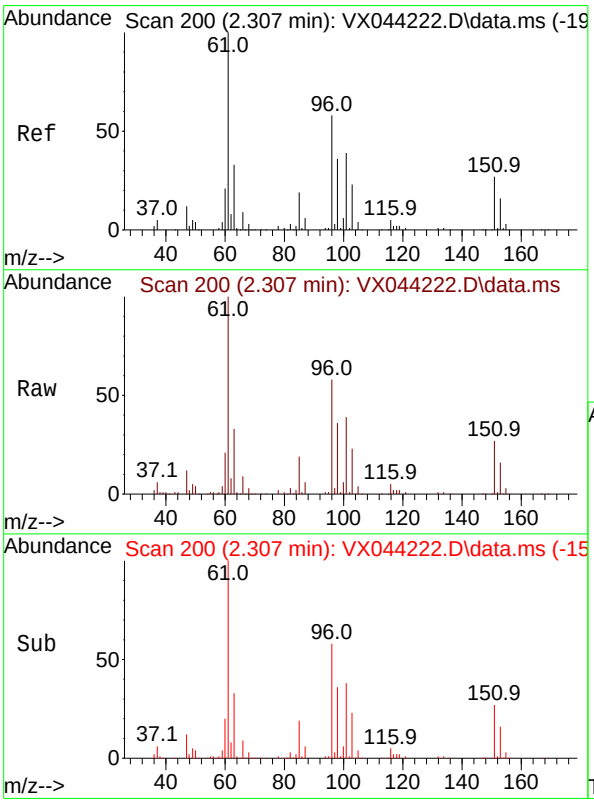
#11
Tert butyl alcohol
Concen: 261.121 ug/l
RT: 2.995 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 80988

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.8	13.2

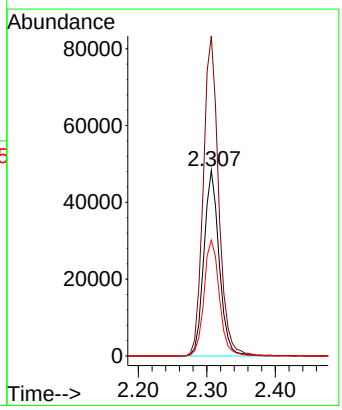


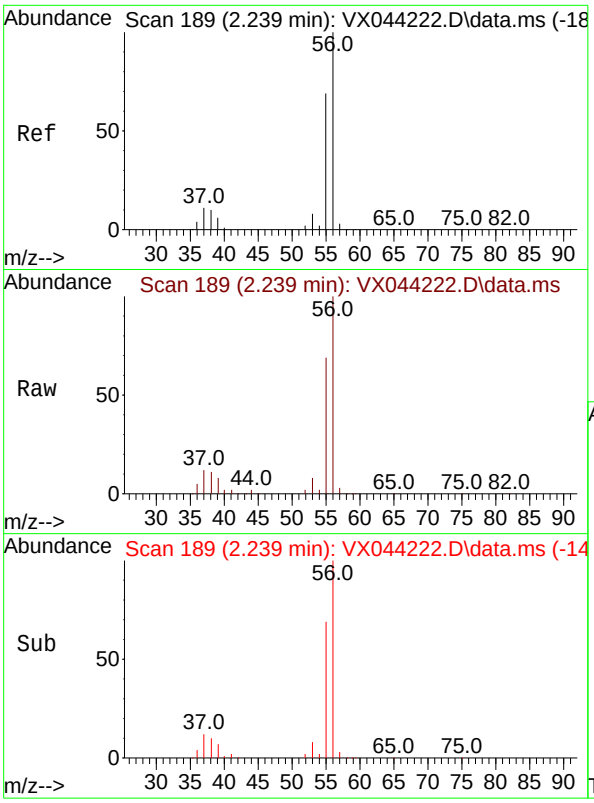


#12
1,1-Dichloroethene
Concen: 53.143 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 96 Resp: 74884

Ion	Ratio	Lower	Upper
96	100		
61	172.5	138.0	207.0
98	62.5	50.0	75.0



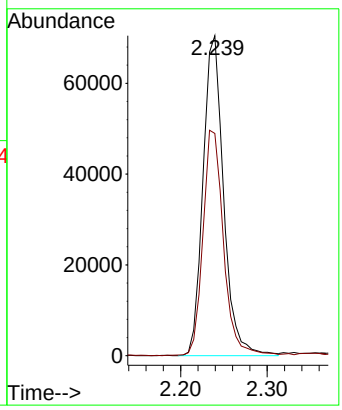


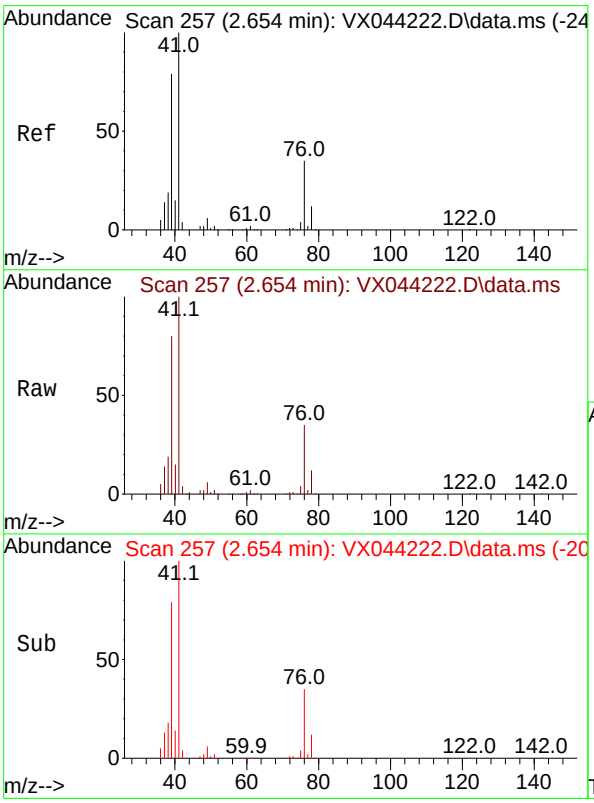
#13
Acrolein
Concen: 258.347 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 116171

Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.6	84.8

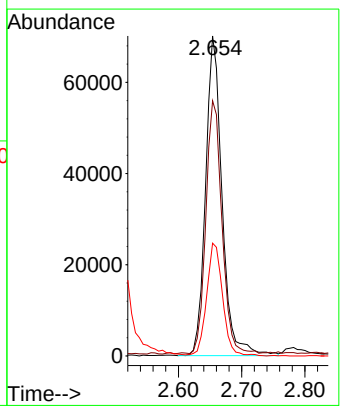


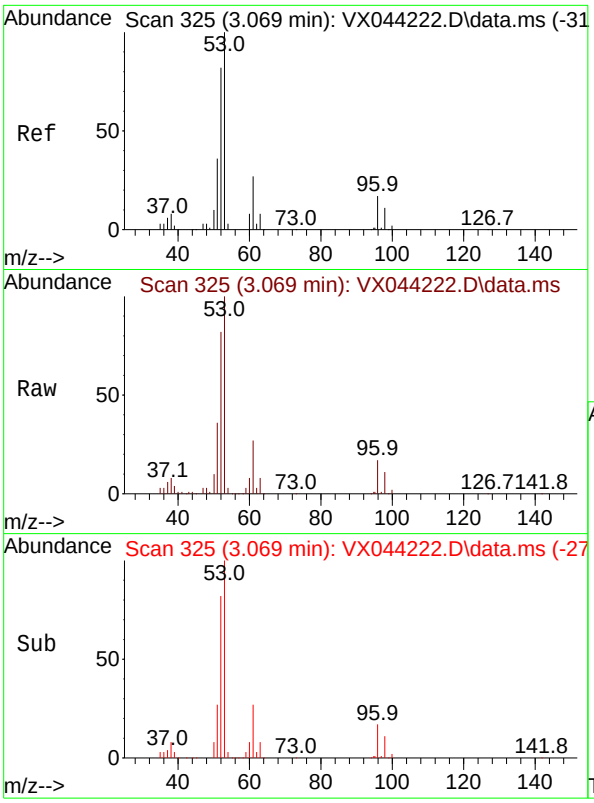


#14
Allyl chloride
Concen: 54.079 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 126925

Ion	Ratio	Lower	Upper
41	100		
39	77.4	61.9	92.9
76	34.3	27.4	41.2



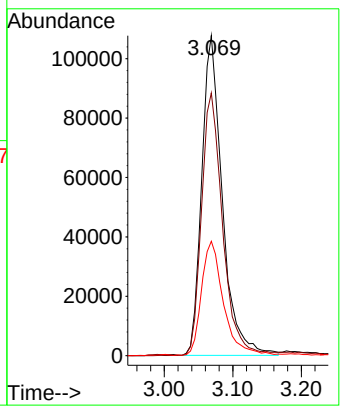


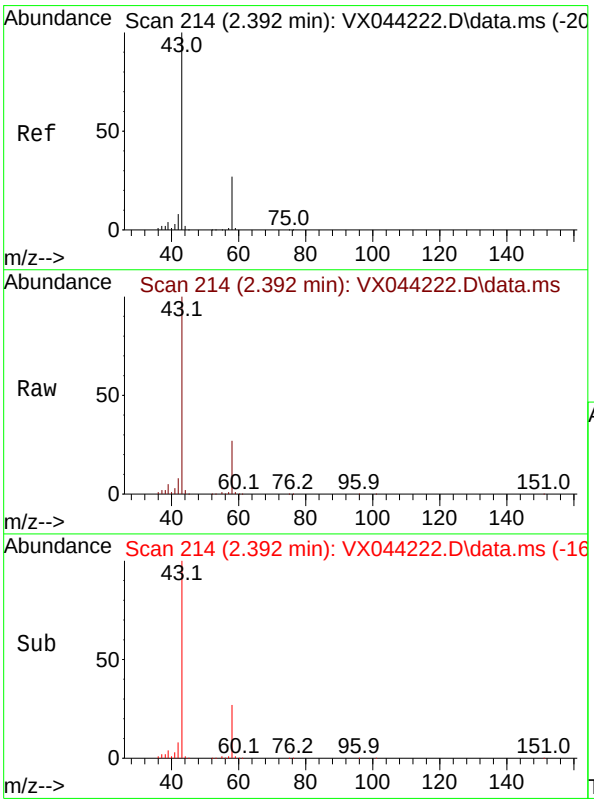
#15
Acrylonitrile
Concen: 261.859 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 225330

Ion	Ratio	Lower	Upper
53	100		
52	84.2	67.4	101.0
51	37.9	30.3	45.5

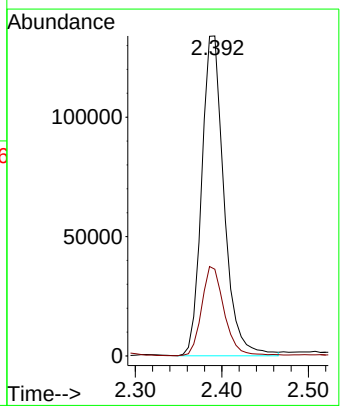


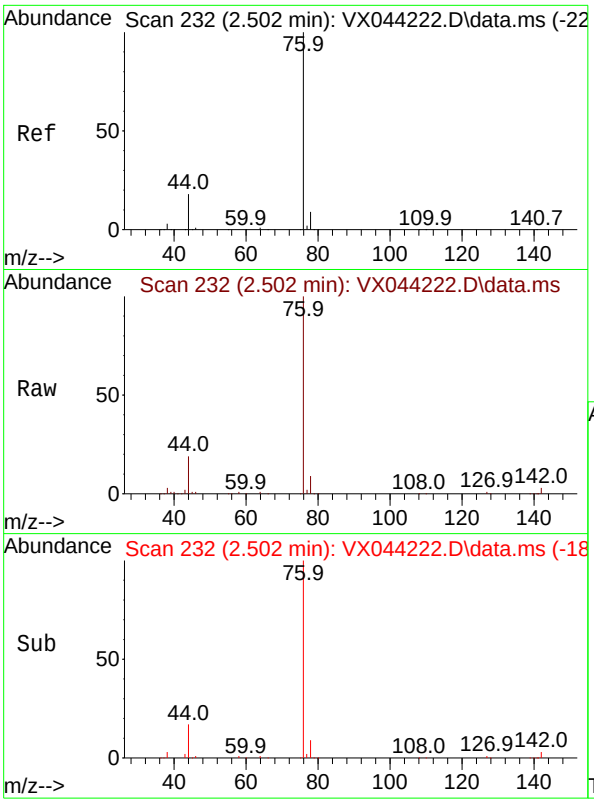


#16
Acetone
Concen: 266.704 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 239661

Ion	Ratio	Lower	Upper
43	100		
58	27.0	21.6	32.4



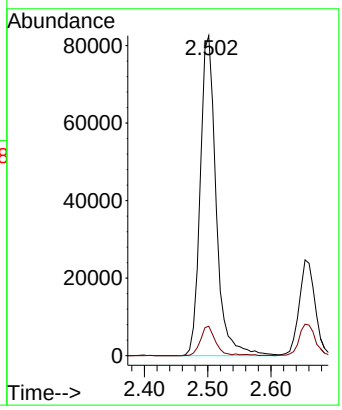


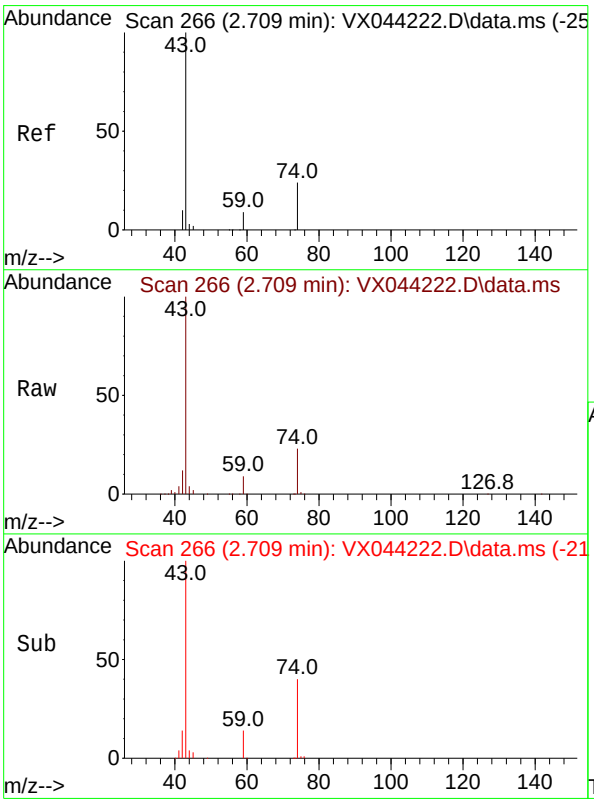
#17
Carbon Disulfide
Concen: 53.994 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 144624

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

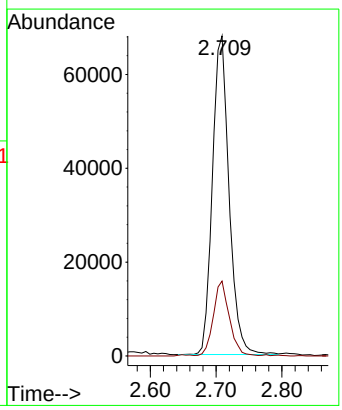


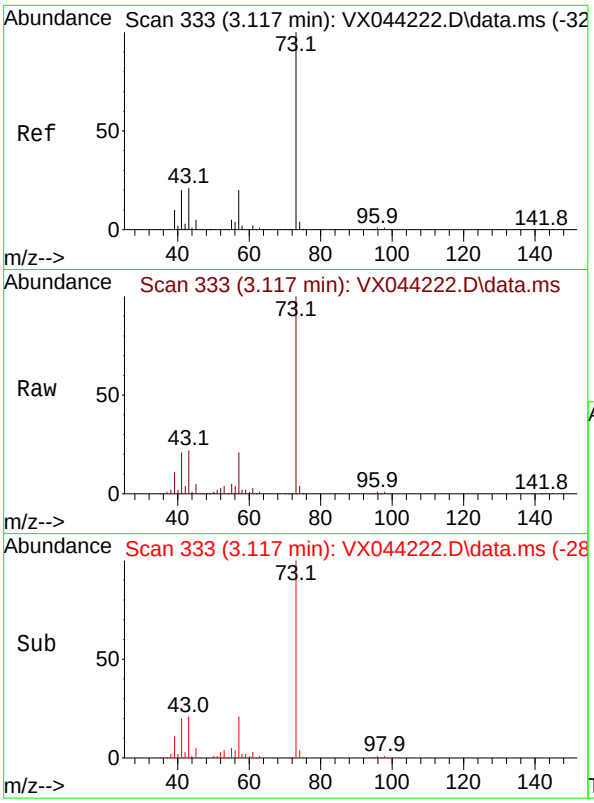


#18
Methyl Acetate
Concen: 51.710 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 119808

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.7	26.5



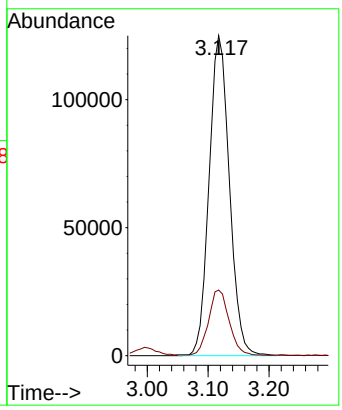


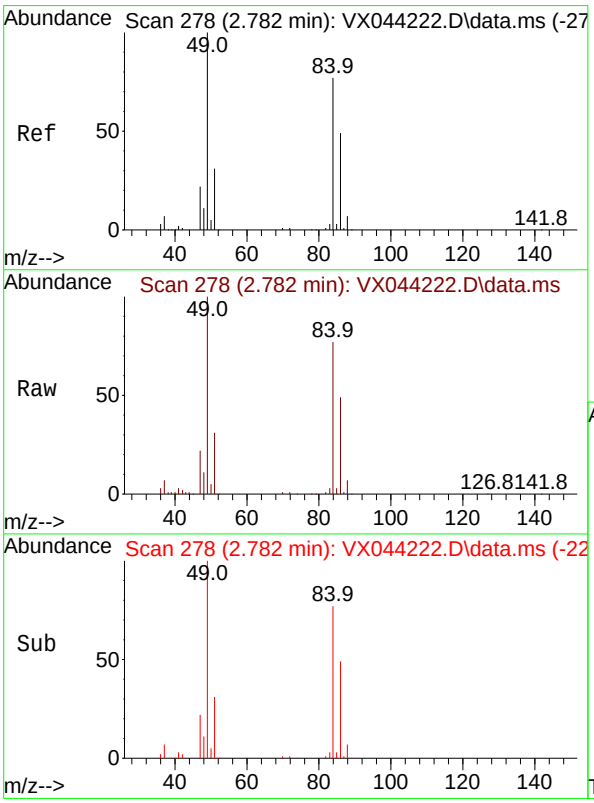
#19
Methyl tert-butyl Ether
Concen: 52.691 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 289735

Ion	Ratio	Lower	Upper
73	100		
57	20.3	16.2	24.4

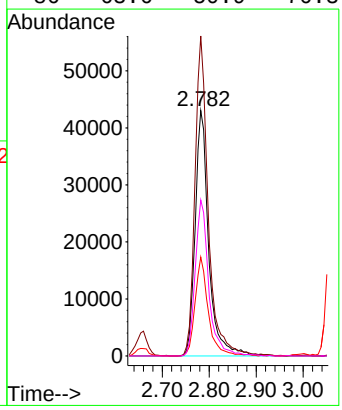


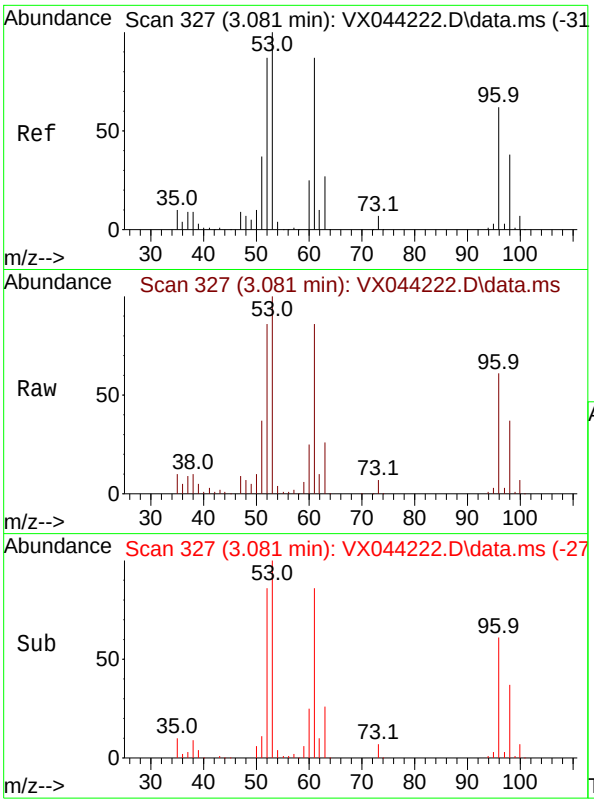


#20
Methylene Chloride
Concen: 51.305 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 84 Resp: 86593

Ion	Ratio	Lower	Upper
84	100		
49	130.3	104.2	156.4
51	40.3	32.2	48.4
86	63.6	50.9	76.3



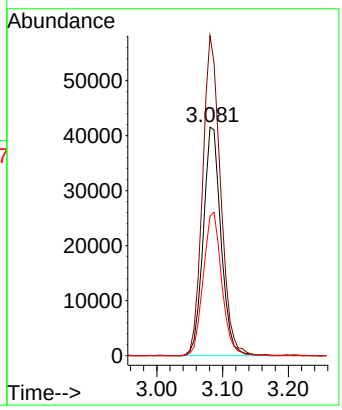


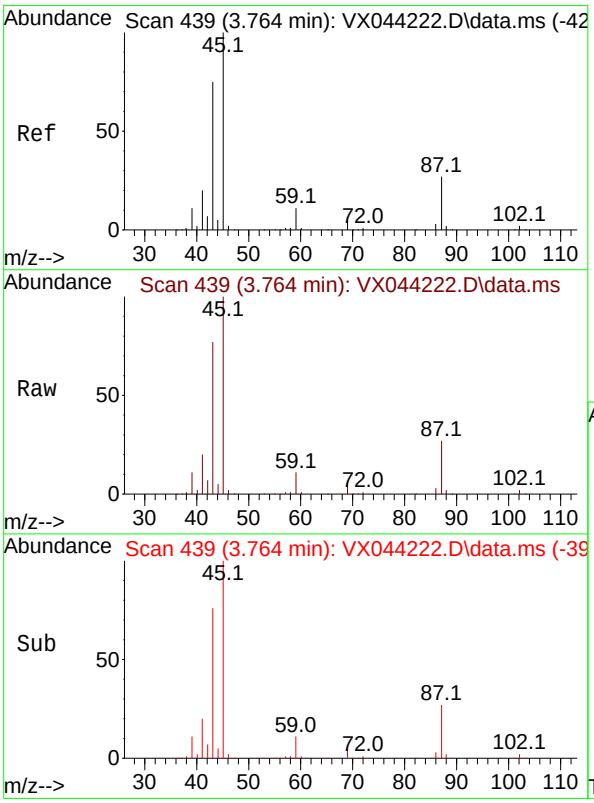
#21
trans-1,2-Dichloroethene
Concen: 51.974 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 77834

Ion	Ratio	Lower	Upper
96	100		
61	140.0	112.0	168.0
98	61.0	48.8	73.2

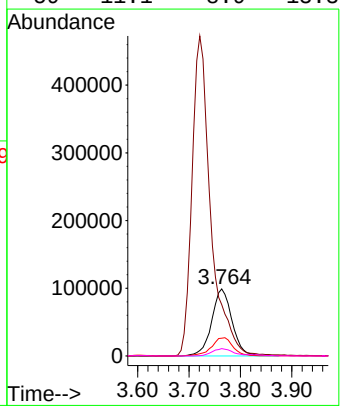


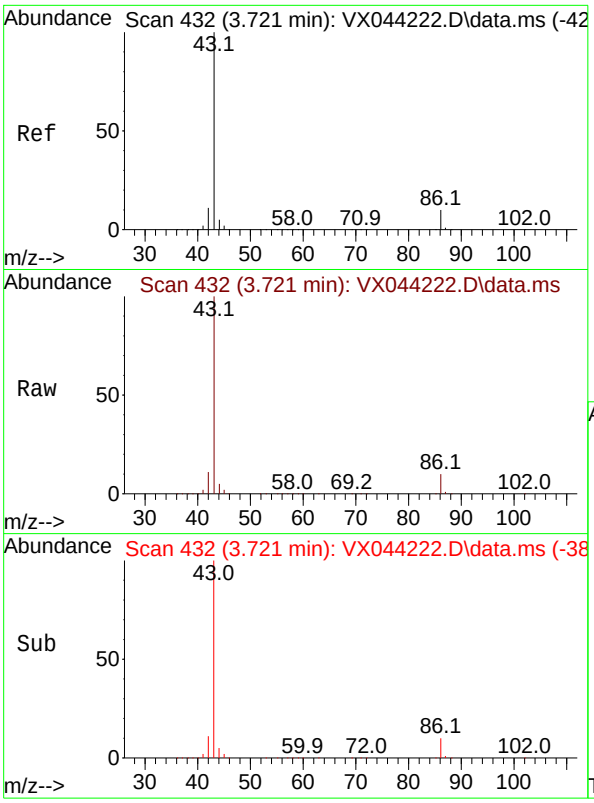


#22
Diisopropyl ether
Concen: 51.662 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 45 Resp: 273039

Ion	Ratio	Lower	Upper
45	100		
43	75.2	60.2	90.2
87	26.5	21.2	31.8
59	11.1	8.9	13.3



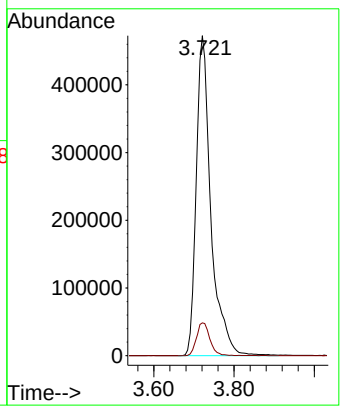


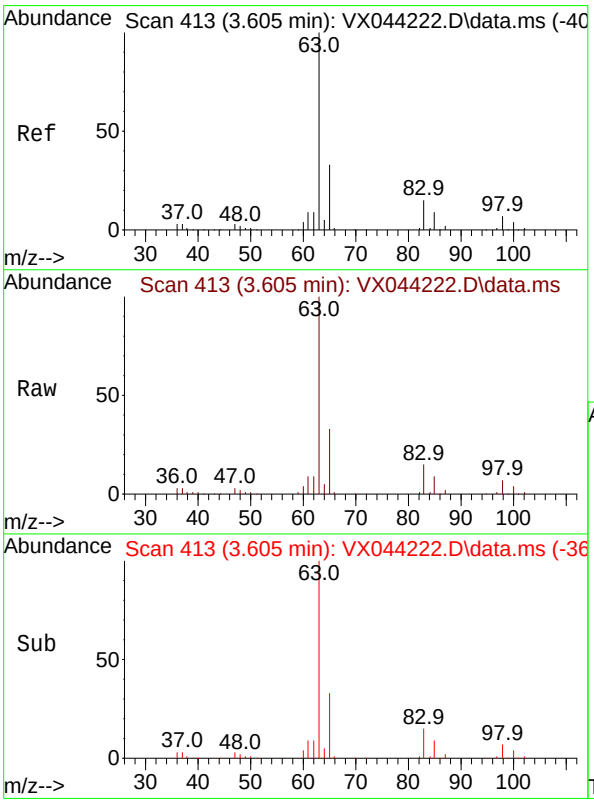
#23
Vinyl Acetate
Concen: 279.754 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1202044

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.2

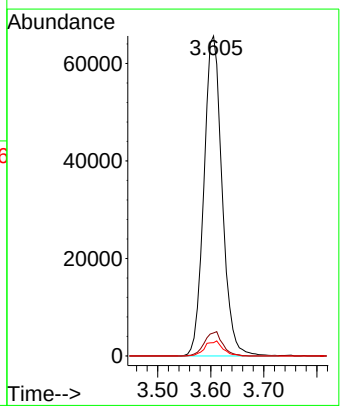


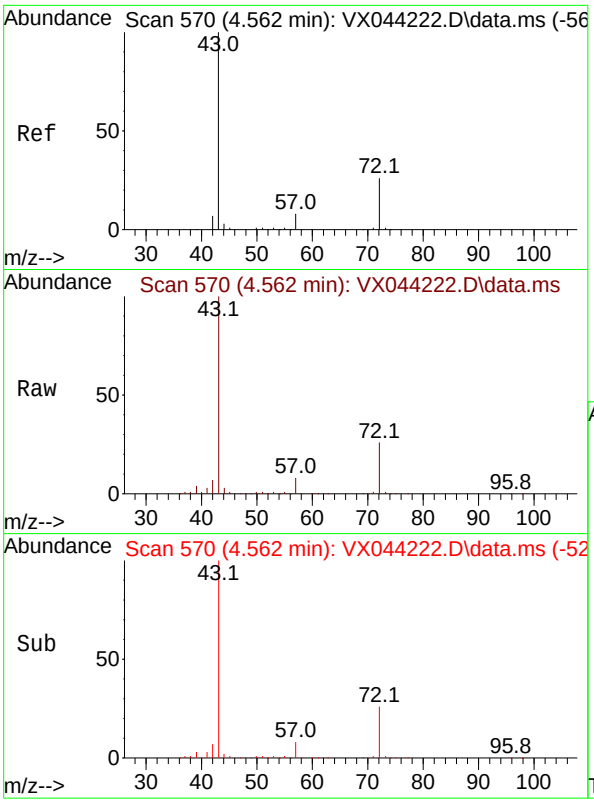


#24
1,1-Dichloroethane
Concen: 53.093 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 156412

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.2	2.1	6.3



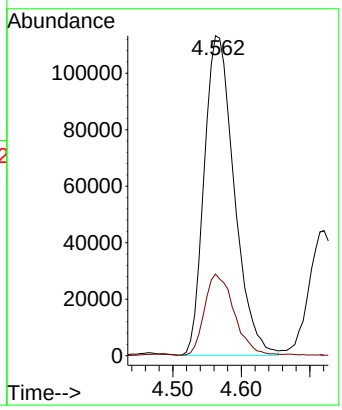


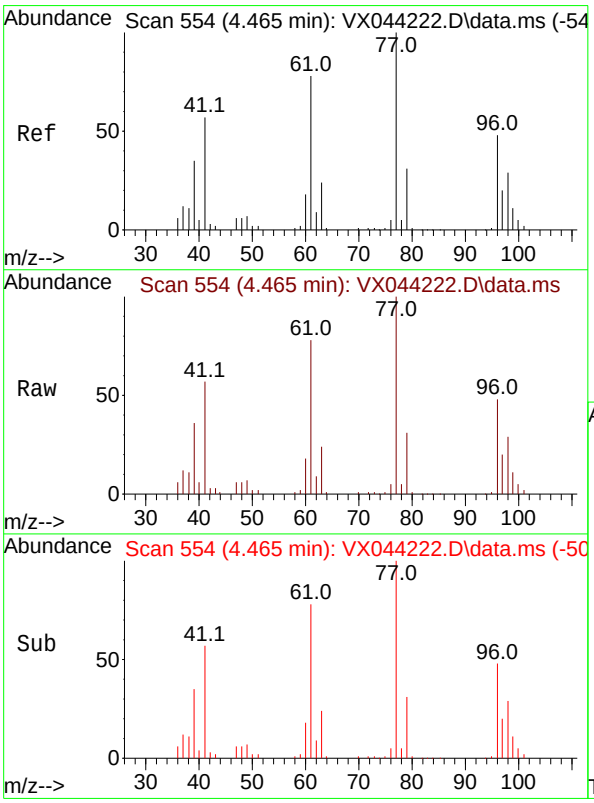
#25
2-Butanone
Concen: 269.797 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 344663

Ion	Ratio	Lower	Upper
43	100		
72	25.3	20.2	30.4

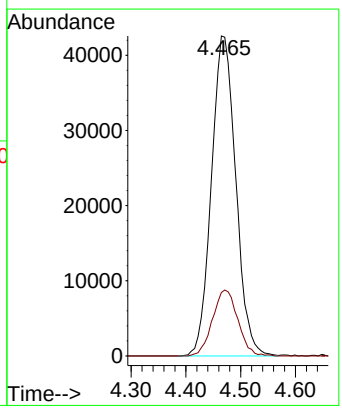


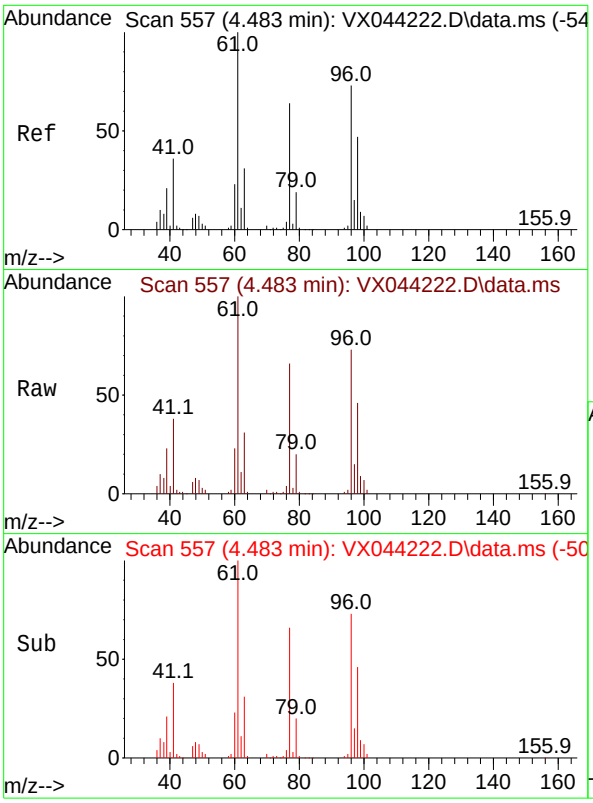


#26
2,2-Dichloropropane
Concen: 54.914 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 77 Resp: 131428

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.7	32.1



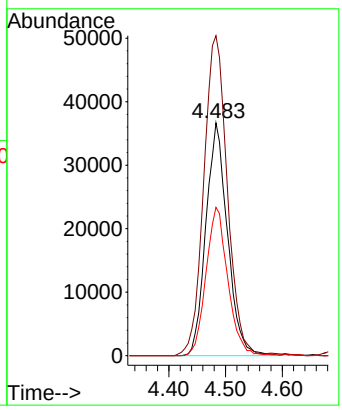


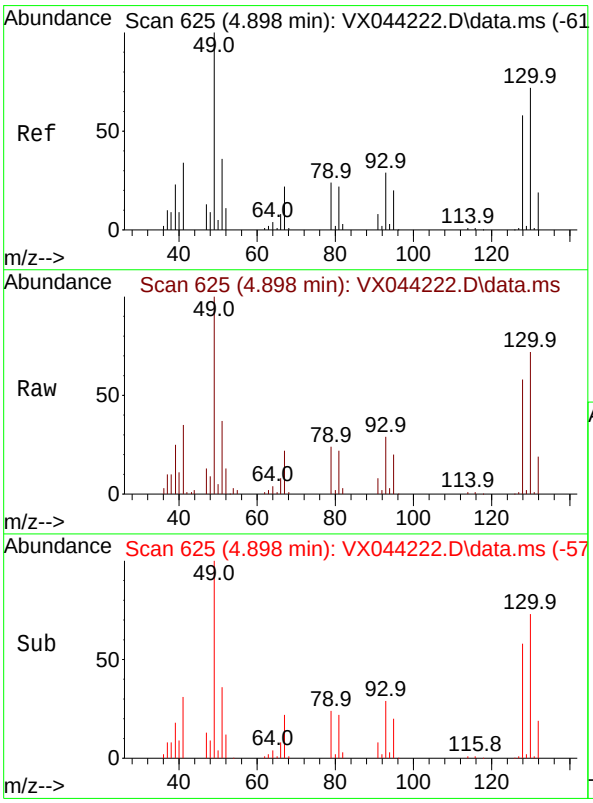
#27
cis-1,2-Dichloroethene
Concen: 51.007 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 97013

Ion	Ratio	Lower	Upper
96	100		
61	149.5	0.0	299.0
98	64.5	0.0	129.0

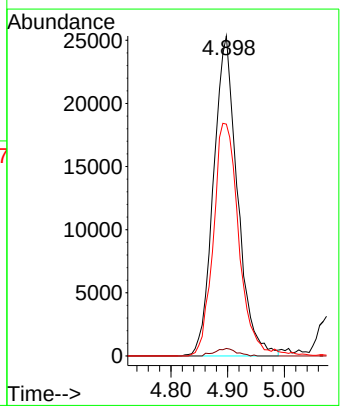


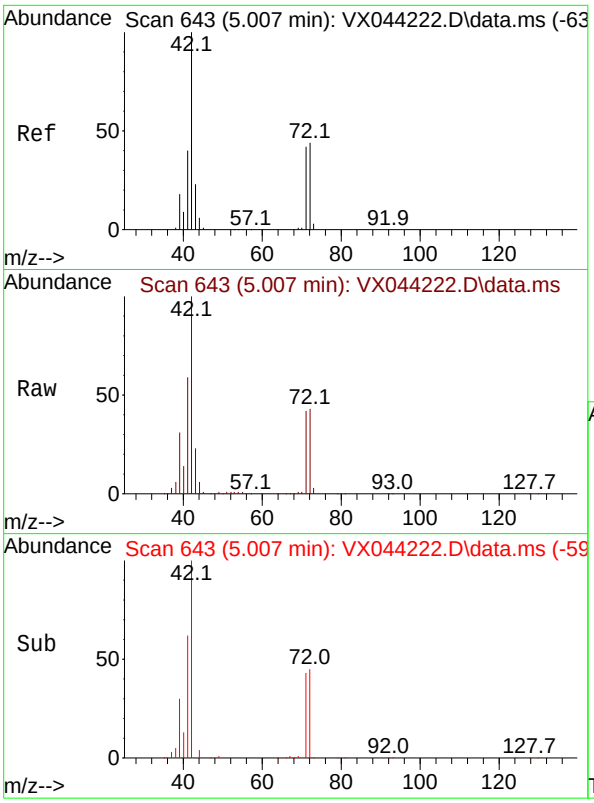


#28
Bromochloromethane
Concen: 51.555 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 49 Resp: 74477

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	77.6	62.1	93.1



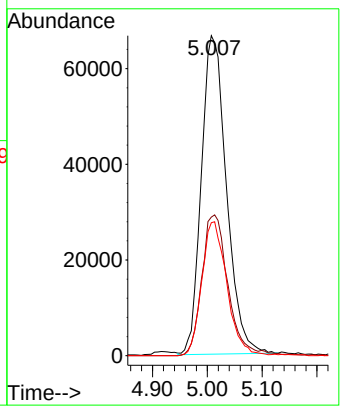


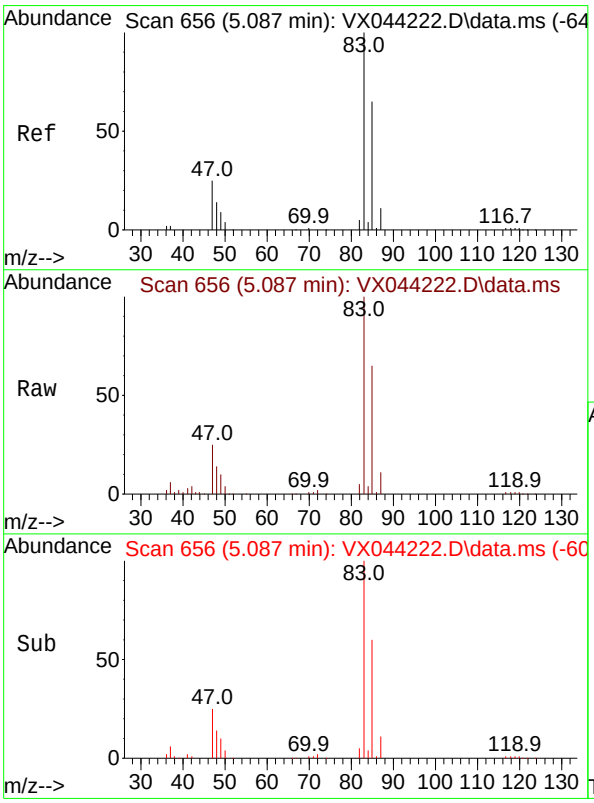
#29
Tetrahydrofuran
Concen: 258.669 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 212103

Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.0	55.6
71	42.0	33.6	50.4

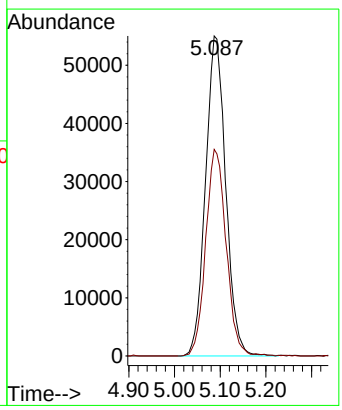


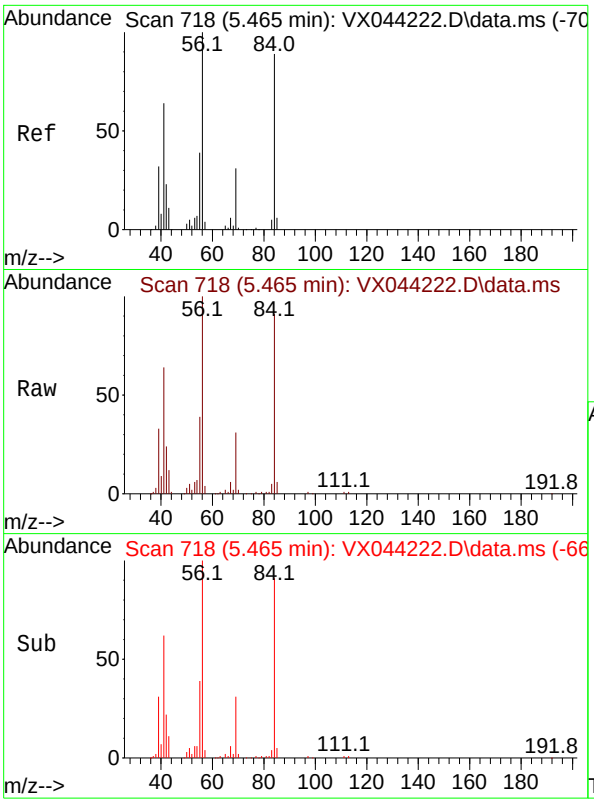


#30
Chloroform
Concen: 51.017 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 83 Resp: 168864

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.6	77.4



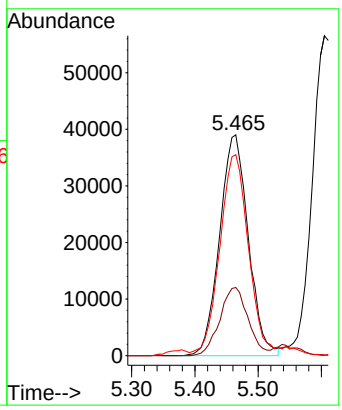


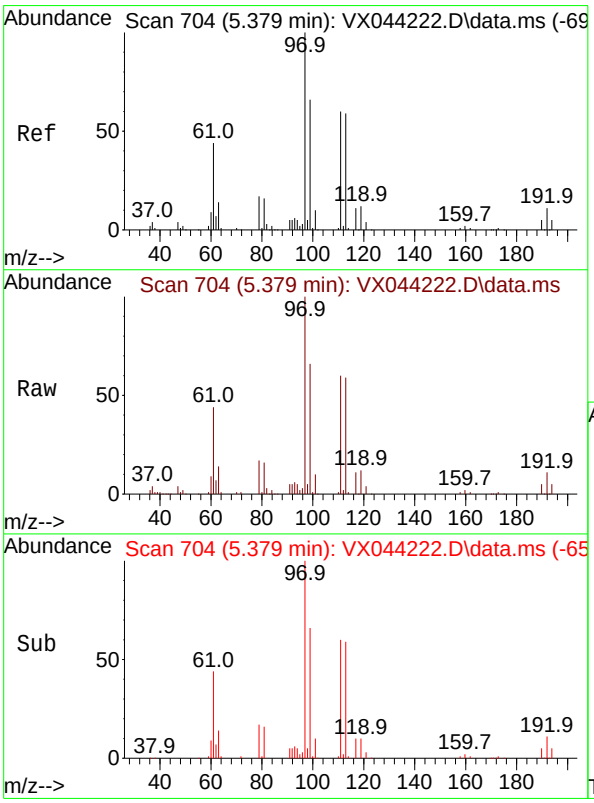
#31
Cyclohexane
Concen: 51.637 ug/l
RT: 5.465 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 122841

Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.7	37.1
84	88.8	71.0	106.6

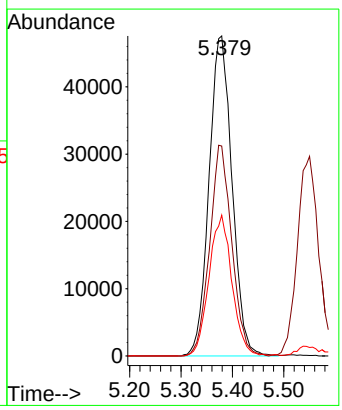


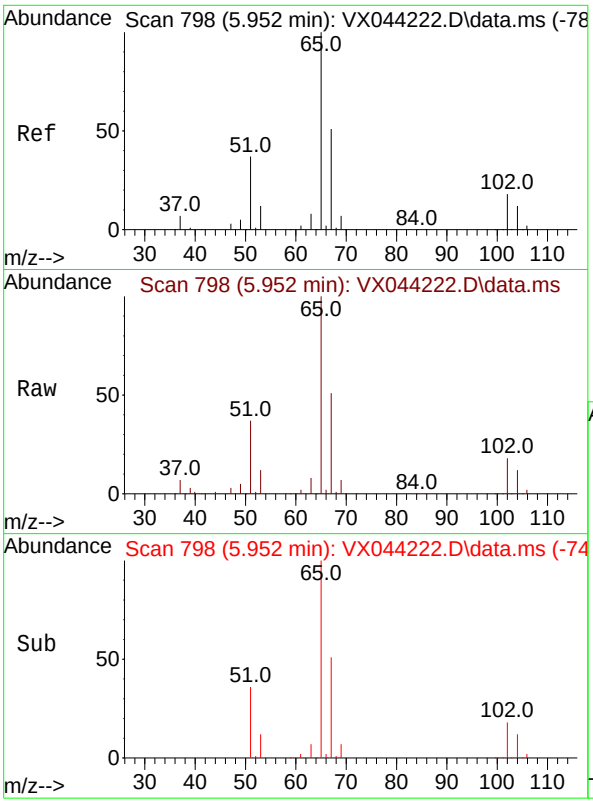


#32
1,1,1-Trichloroethane
Concen: 53.806 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 97 Resp: 147834

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.8	76.2
61	44.0	35.2	52.8



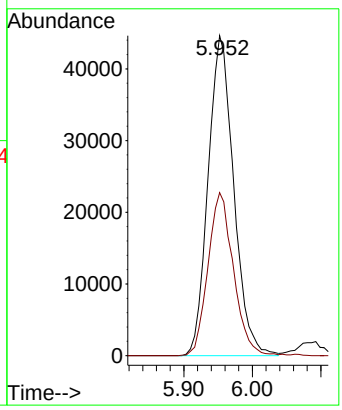


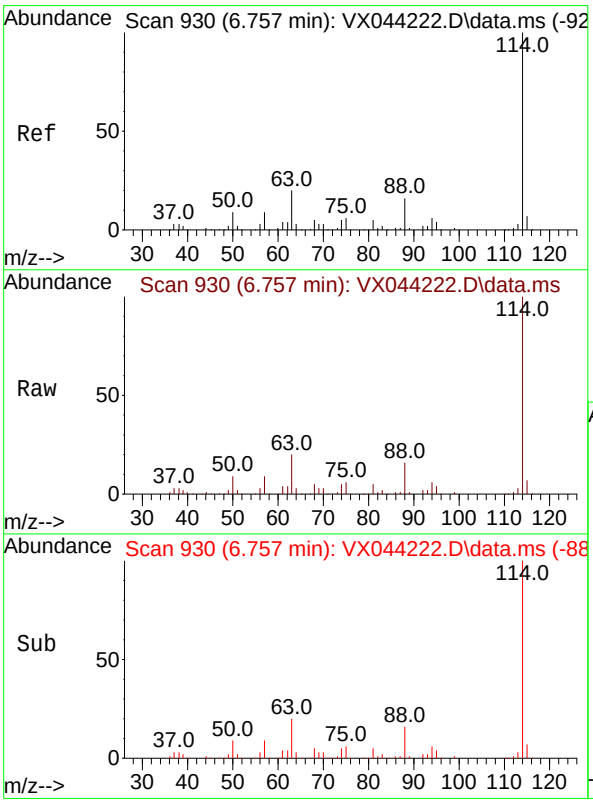
#33
1,2-Dichloroethane-d4
Concen: 52.544 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 115815

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	101.6

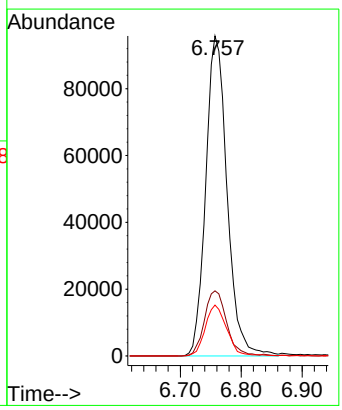


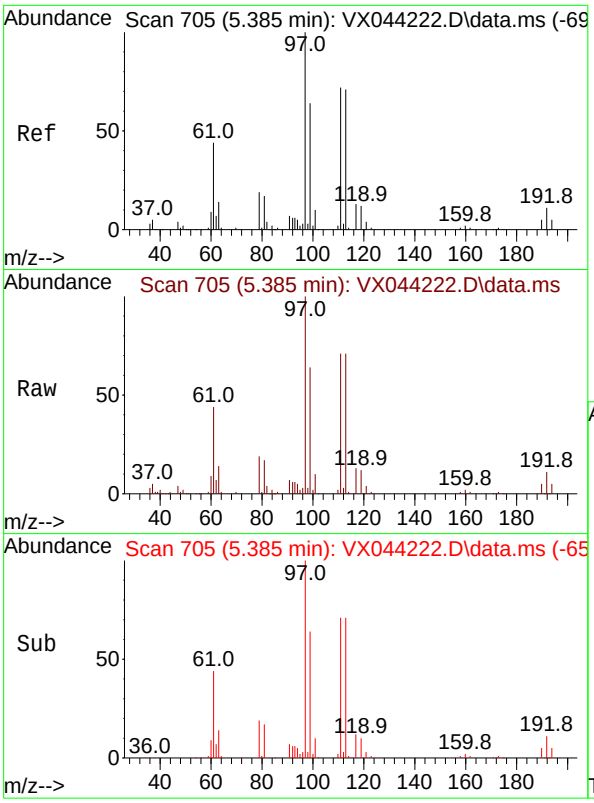


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:114 Resp: 233488

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.6
88	15.9	0.0	31.8



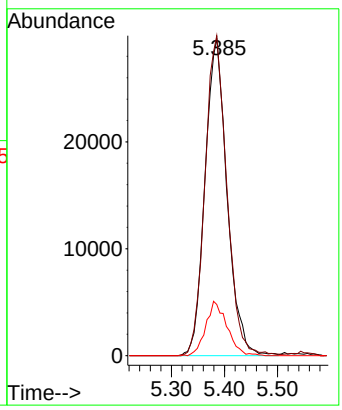


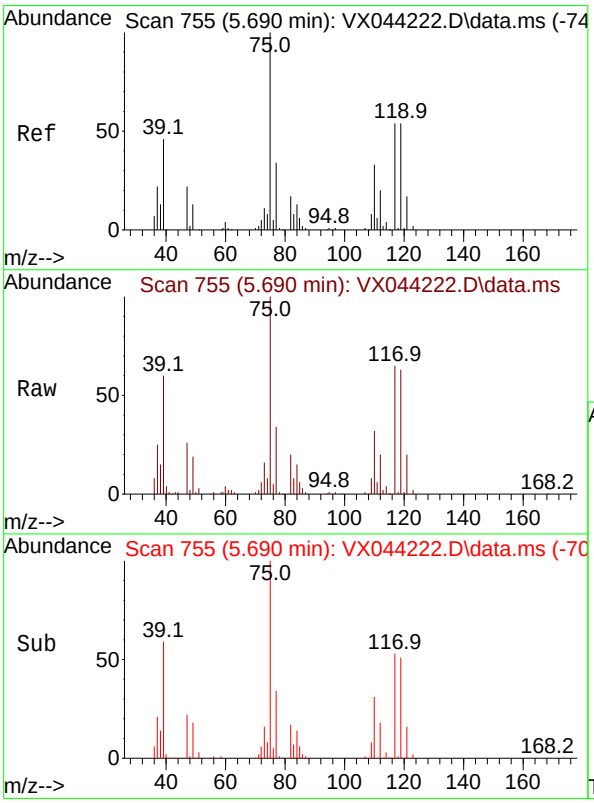
#35
Dibromofluoromethane
Concen: 52.968 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 85656

Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.4	120.6
192	16.6	13.3	19.9

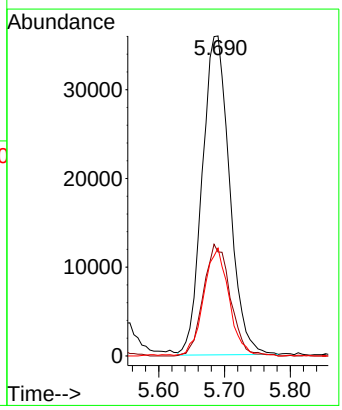


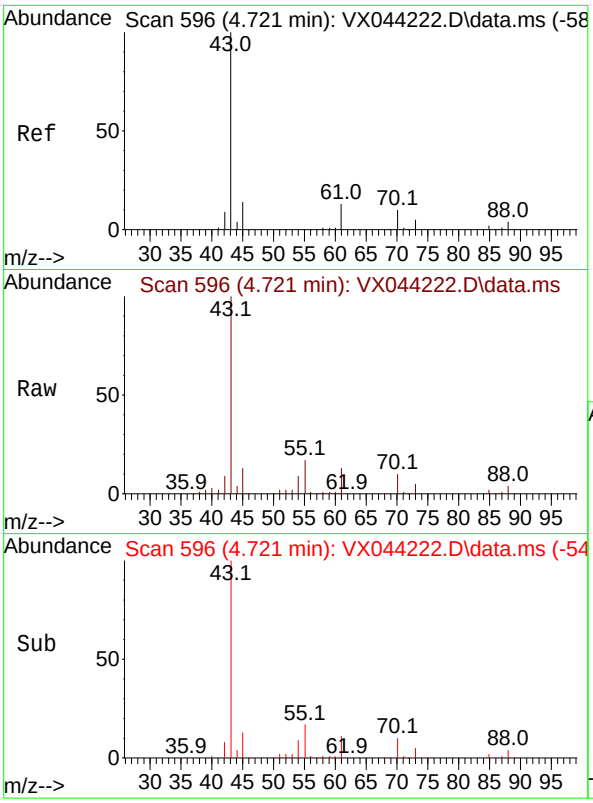


#36
1,1-Dichloropropene
Concen: 49.638 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 103760

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.3	51.7
77	31.7	25.4	38.0



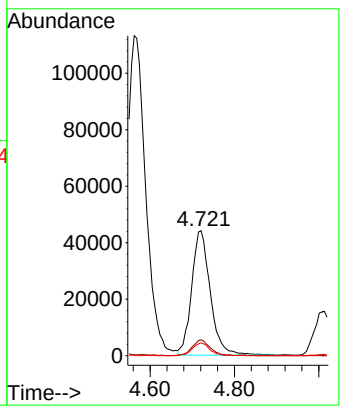


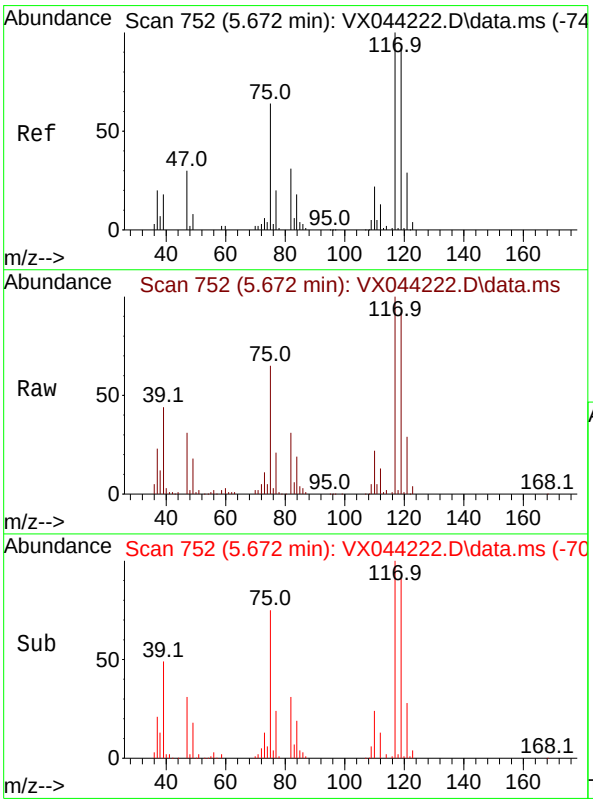
#37
Ethyl Acetate
Concen: 52.537 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 135753

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.6	7.7	11.5

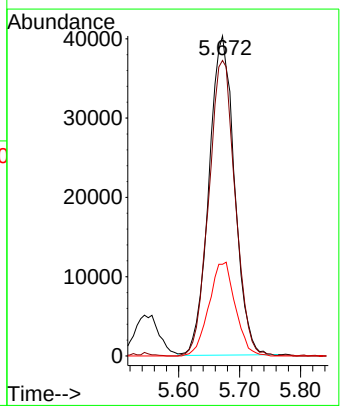


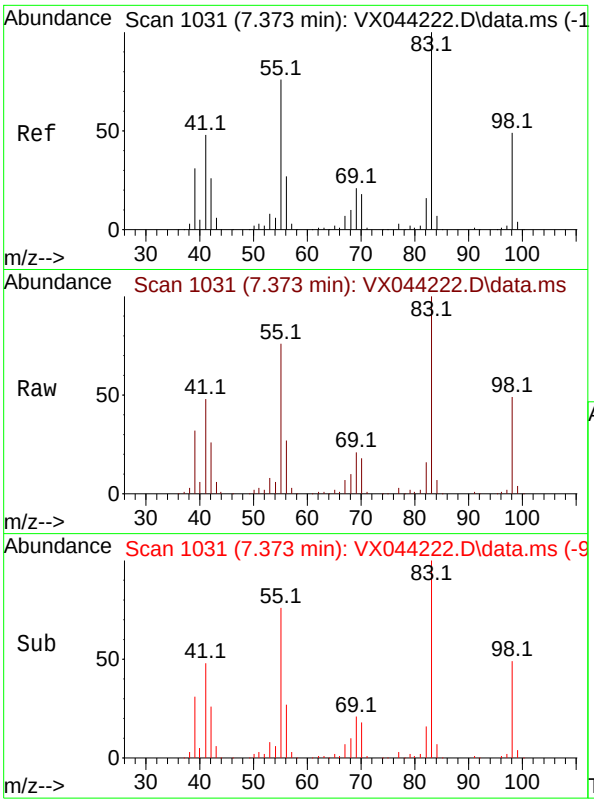


#38
Carbon Tetrachloride
Concen: 52.023 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 117076

Ion	Ratio	Lower	Upper
117	100		
119	92.8	74.2	111.4
121	28.8	23.0	34.6



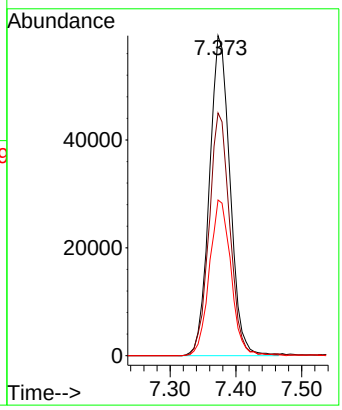


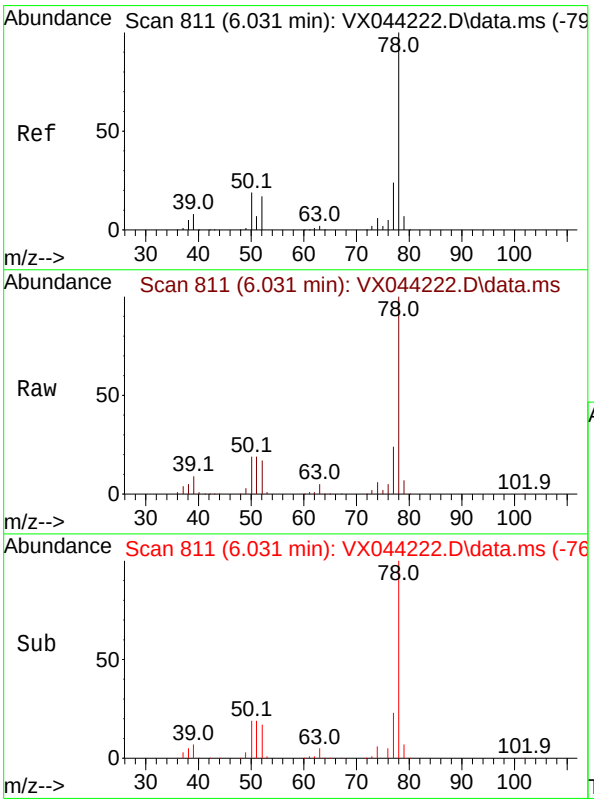
#39
Methylcyclohexane
Concen: 51.901 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 129697

Ion	Ratio	Lower	Upper
83	100		
55	75.9	60.7	91.1
98	48.6	38.9	58.3

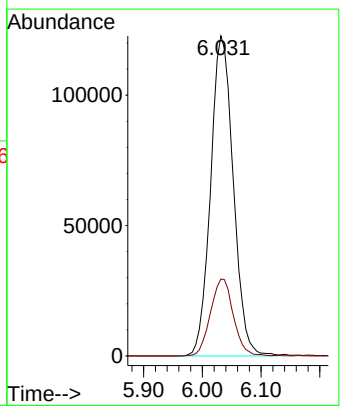


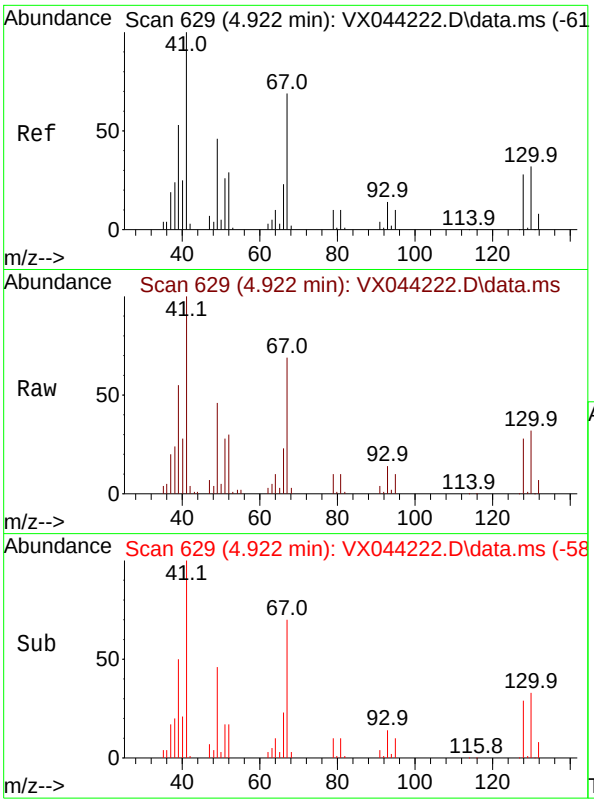


#40
Benzene
Concen: 51.863 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 78 Resp: 329154

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.3	28.9



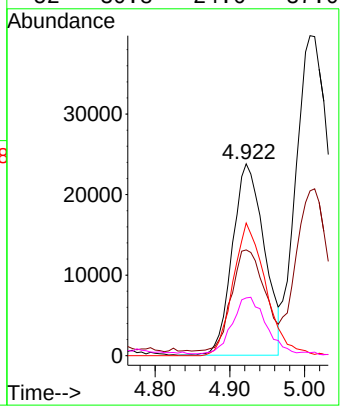


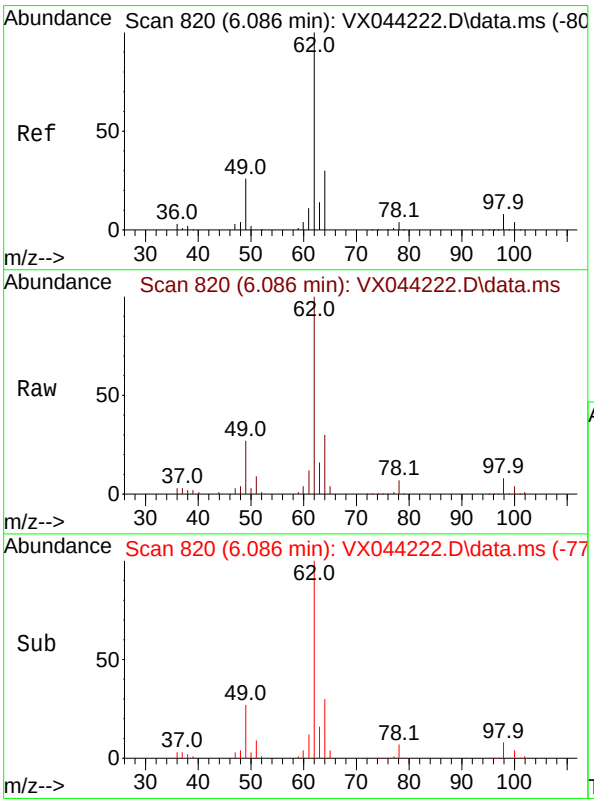
#41
Methacrylonitrile
Concen: 51.329 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 70427

Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.2	66.4
67	71.5	57.2	85.8
52	30.8	24.6	37.0

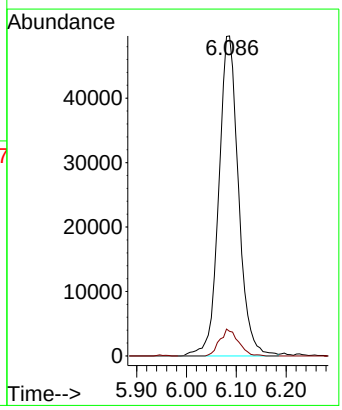


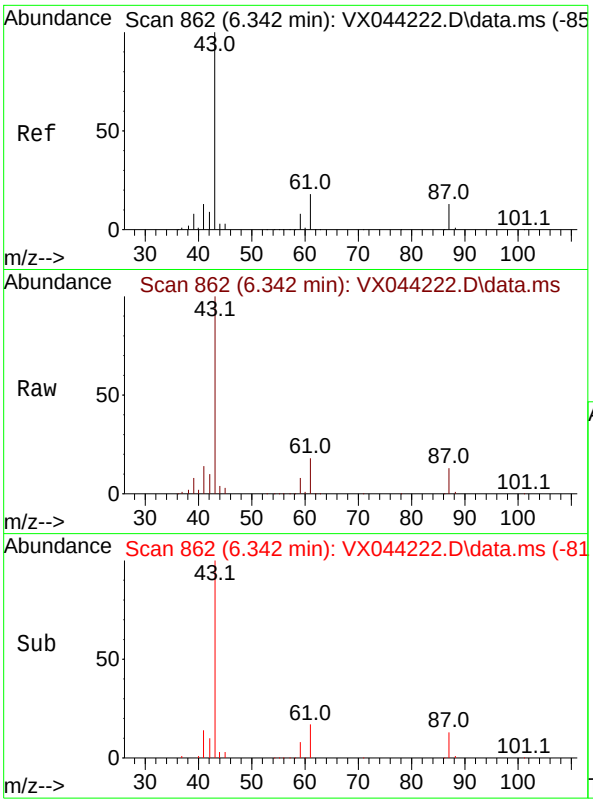


#42
1,2-Dichloroethane
Concen: 52.138 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 62 Resp: 136309

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8



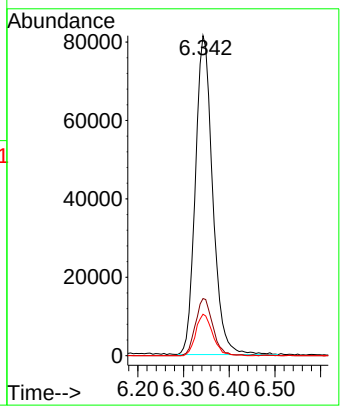


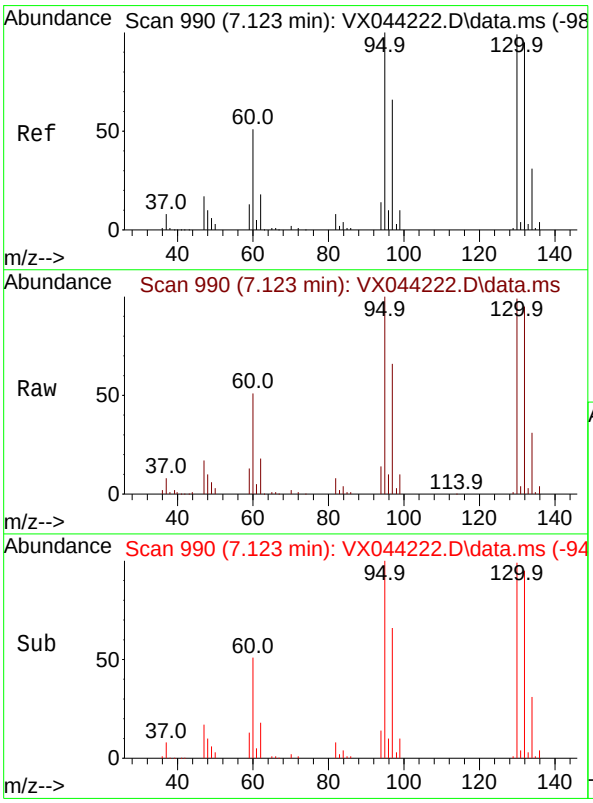
#43
Isopropyl Acetate
Concen: 52.961 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 213891

Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.2	21.2
87	12.7	10.2	15.2

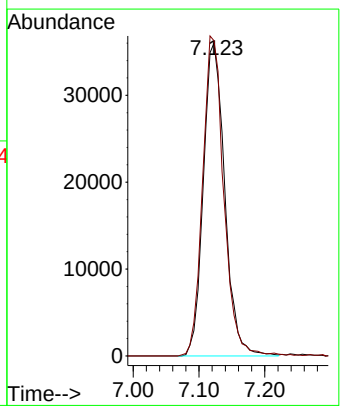


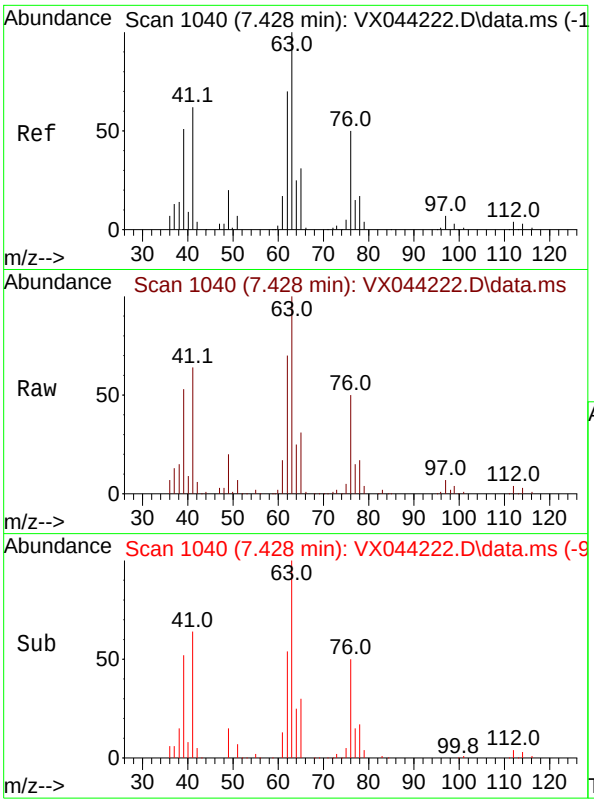


#44
Trichloroethene
Concen: 51.521 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:130 Resp: 81542

Ion	Ratio	Lower	Upper
130	100		
95	100.7	0.0	201.4



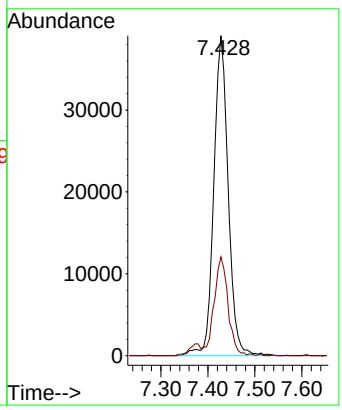


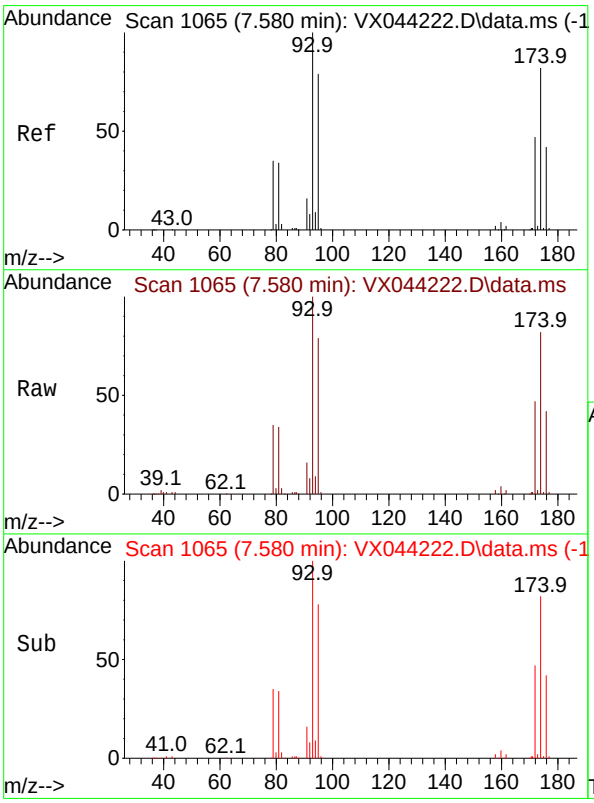
#45
1,2-Dichloropropane
Concen: 51.420 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 83376

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	37.0

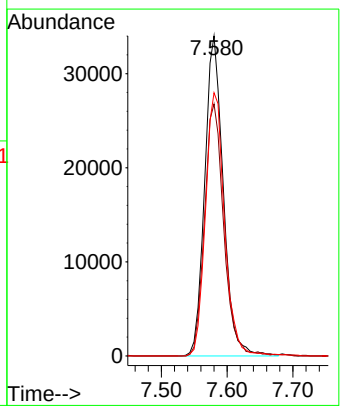


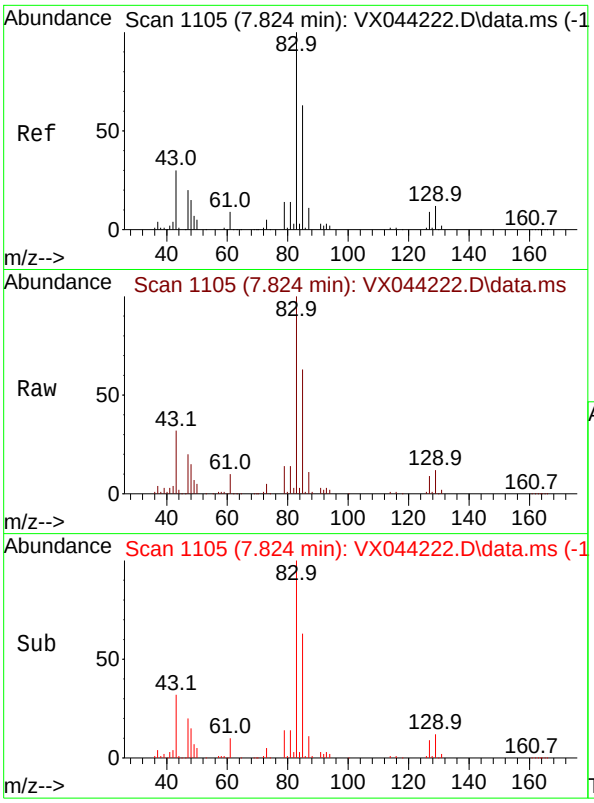


#46
Dibromomethane
Concen: 53.092 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 93 Resp: 66786

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.4	98.2
174	84.9	67.9	101.9



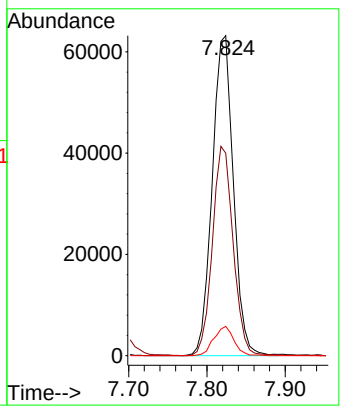


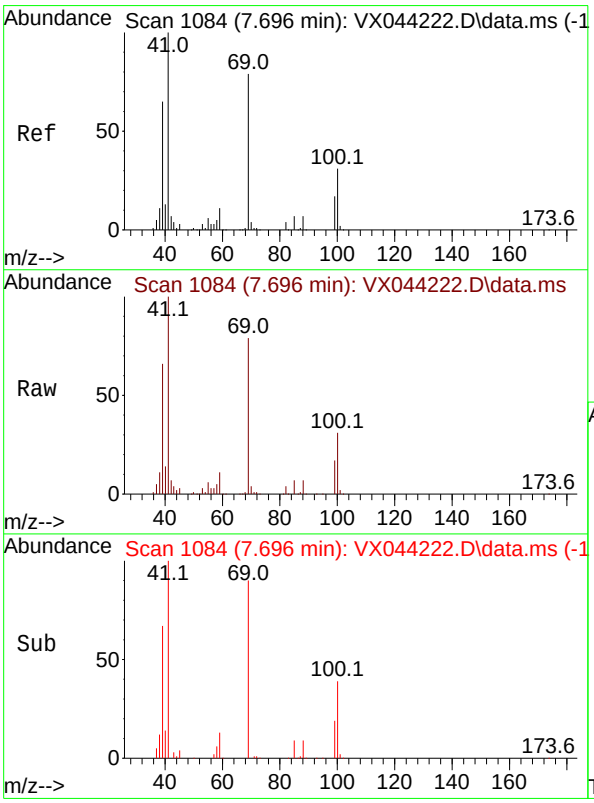
#47
Bromodichloromethane
Concen: 54.607 ug/l
RT: 7.824 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 118634

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	9.1	7.3	10.9

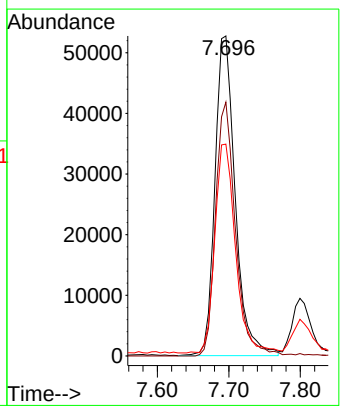


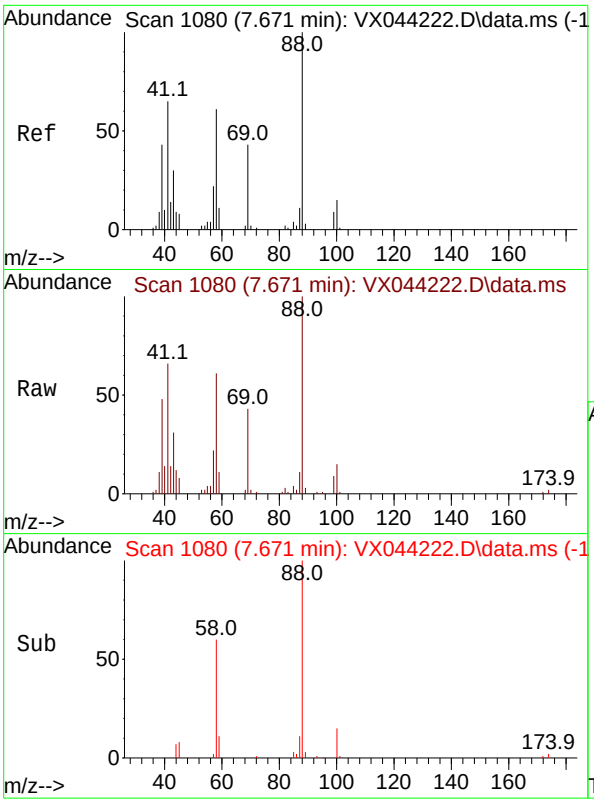


#48
Methyl methacrylate
Concen: 52.909 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 41 Resp: 103726

Ion	Ratio	Lower	Upper
41	100		
69	78.0	62.4	93.6
39	66.6	53.3	79.9



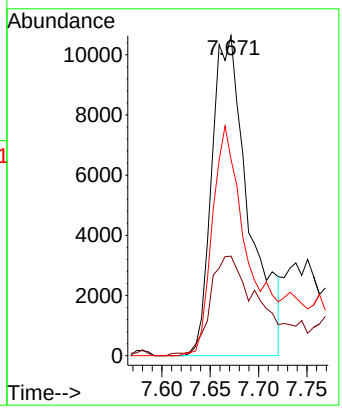


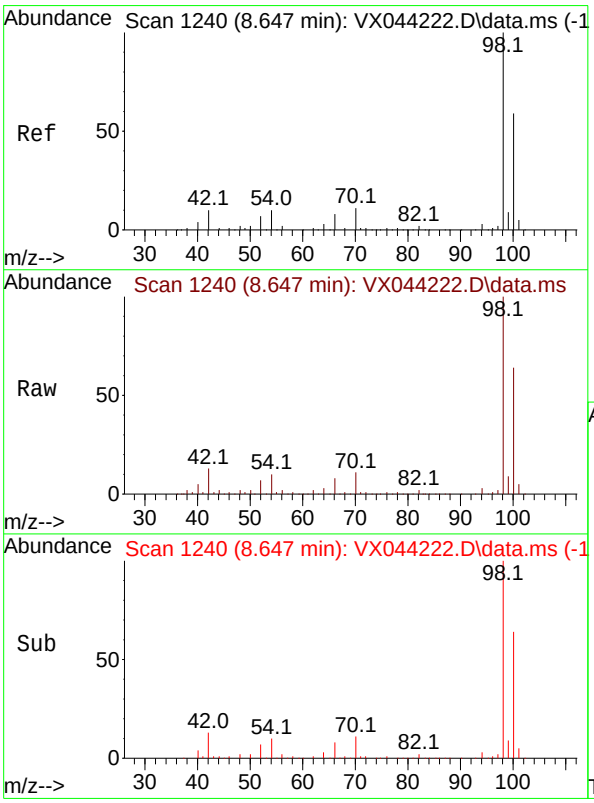
#49
1,4-Dioxane
Concen: 843.658 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 28266

Ion	Ratio	Lower	Upper
88	100		
43	45.2	27.1	40.7#
58	68.3	41.0	61.4#

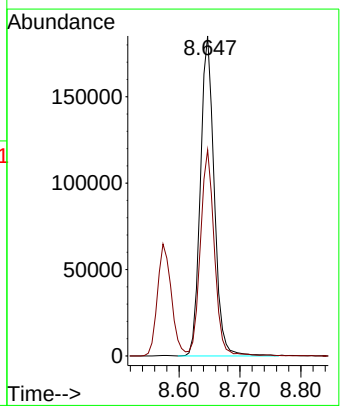


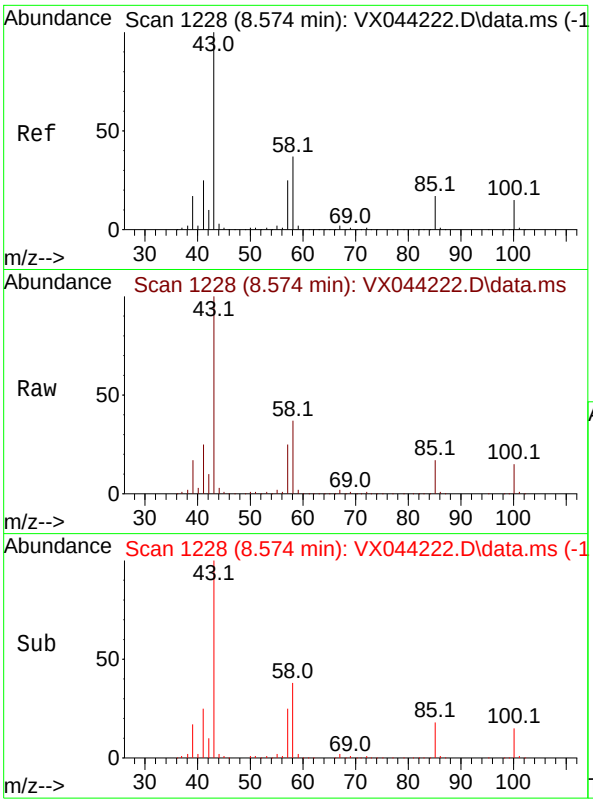


#50
Toluene-d8
Concen: 53.559 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 98 Resp: 292199

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3



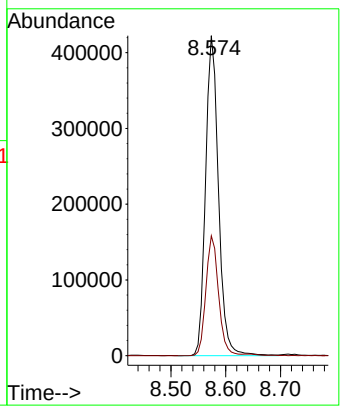


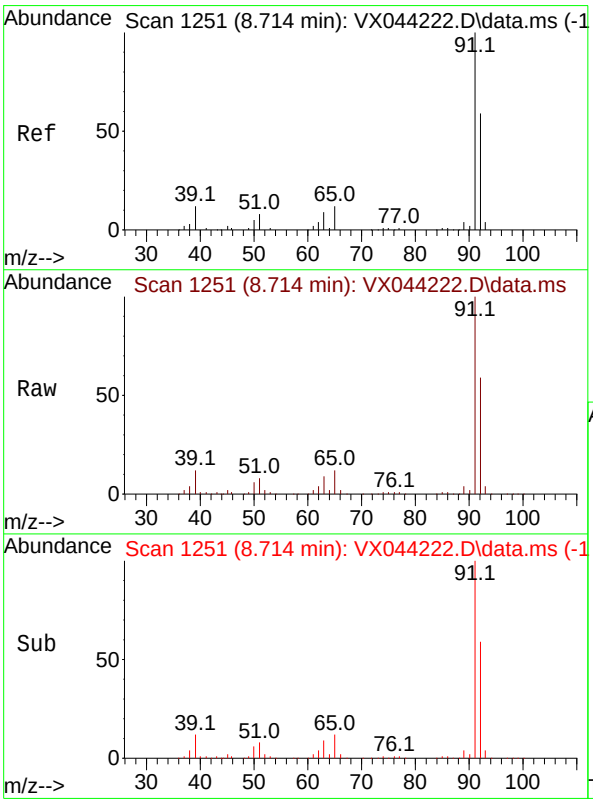
#51
4-Methyl-2-Pentanone
Concen: 265.203 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 688666

Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.4	44.0

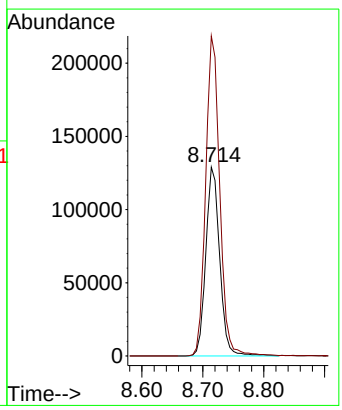


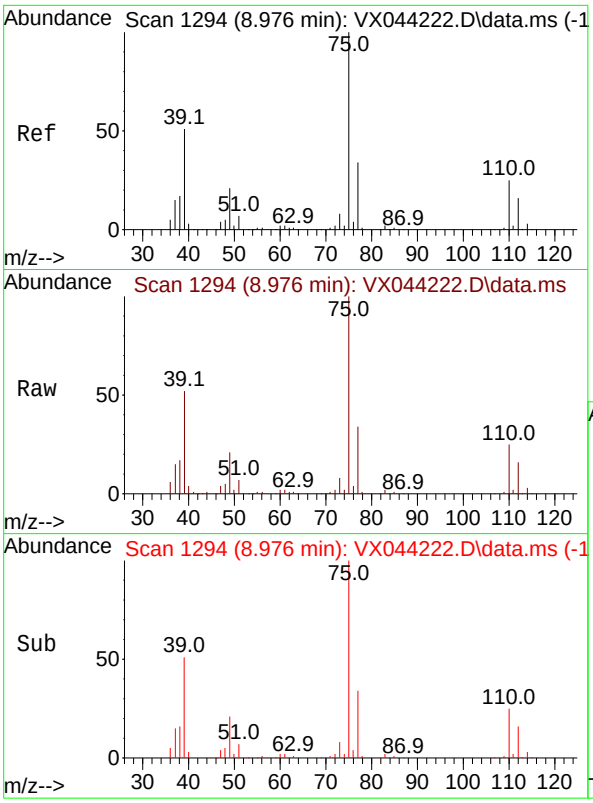


#52
Toluene
Concen: 51.370 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 92 Resp: 204738

Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6



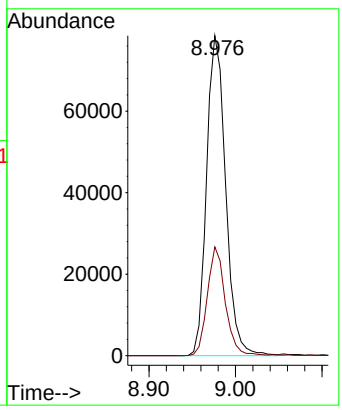


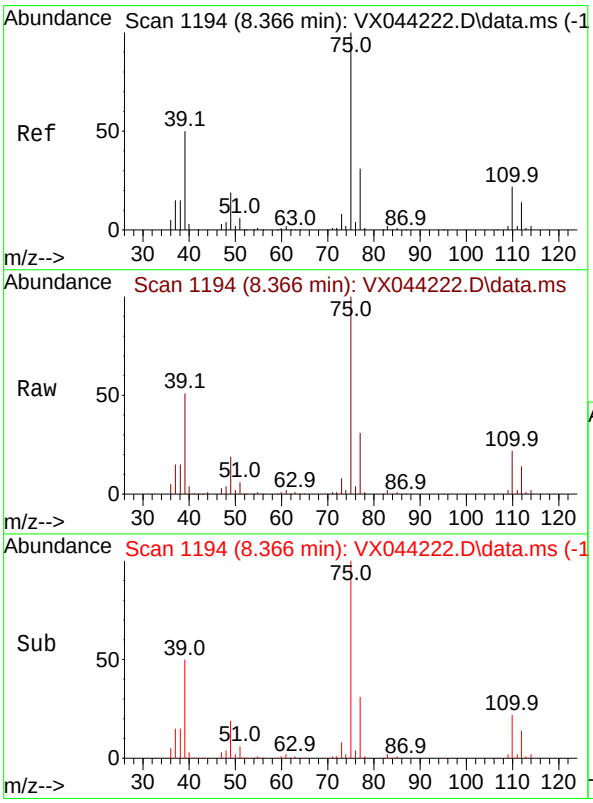
#53
t-1,3-Dichloropropene
Concen: 51.362 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 120007

Ion	Ratio	Lower	Upper
75	100		
77	34.0	27.2	40.8

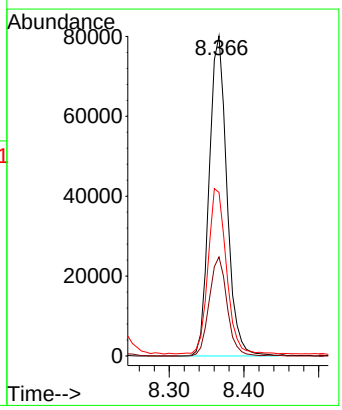


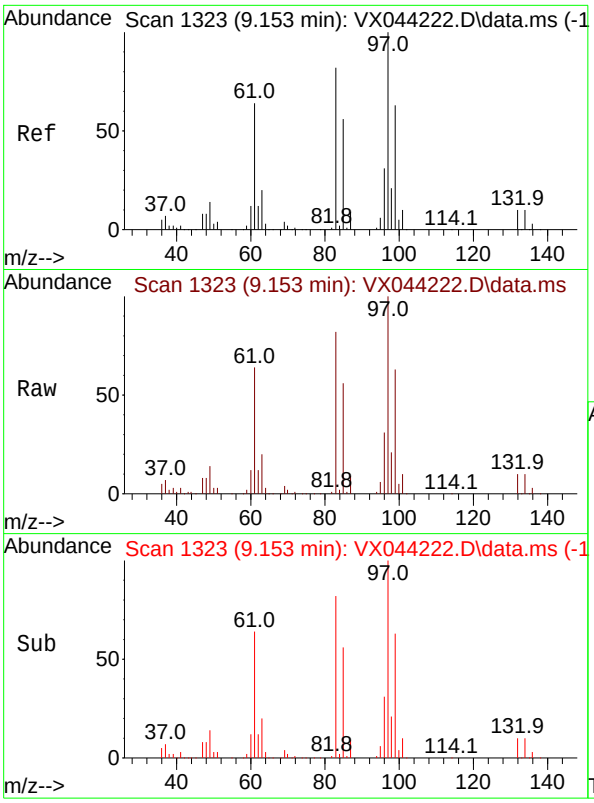


#54
cis-1,3-Dichloropropene
Concen: 55.923 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 132286

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.4	40.3	60.5



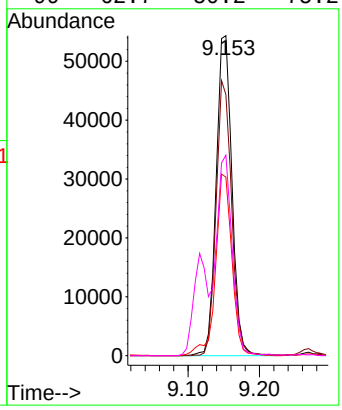


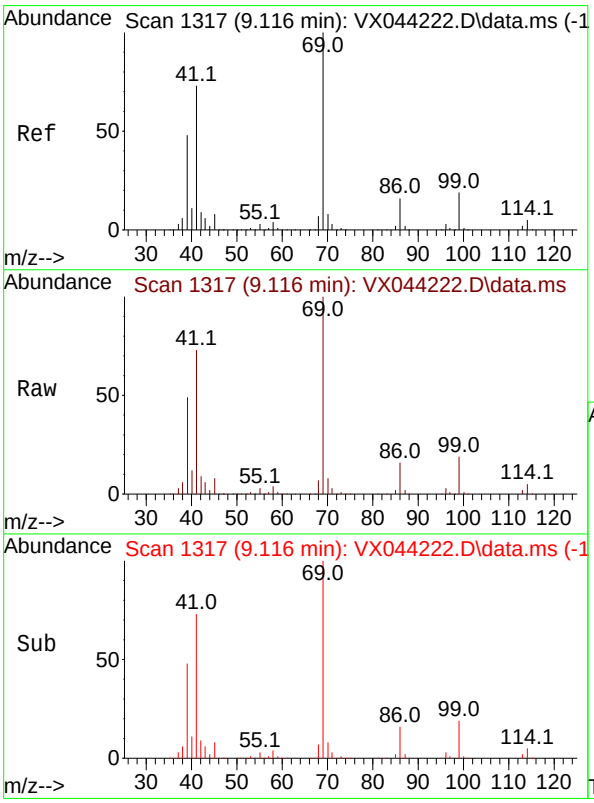
#55
1,1,2-Trichloroethane
Concen: 52.729 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 83488

Ion	Ratio	Lower	Upper
97	100		
83	81.6	65.3	97.9
85	55.8	44.6	67.0
99	62.7	50.2	75.2

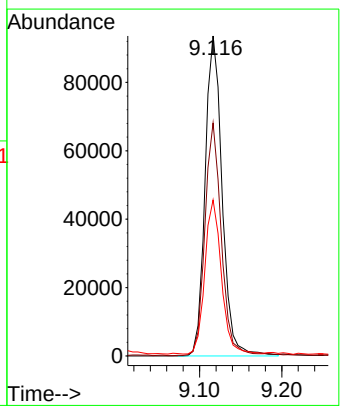


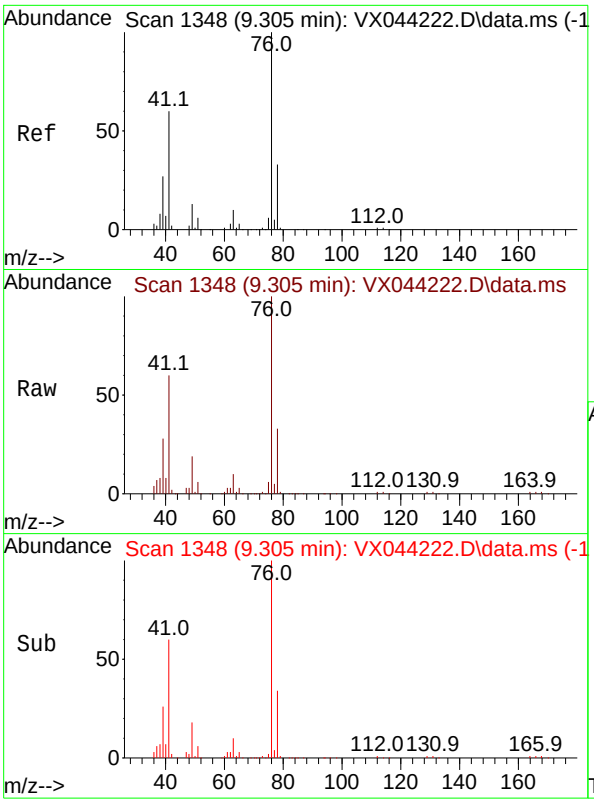


#56
Ethyl methacrylate
Concen: 53.917 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 69 Resp: 134770

Ion	Ratio	Lower	Upper
69	100		
41	70.8	56.6	85.0
39	46.7	37.4	56.0



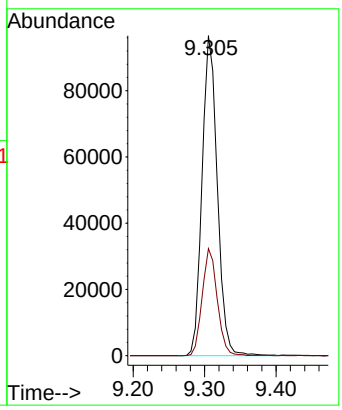


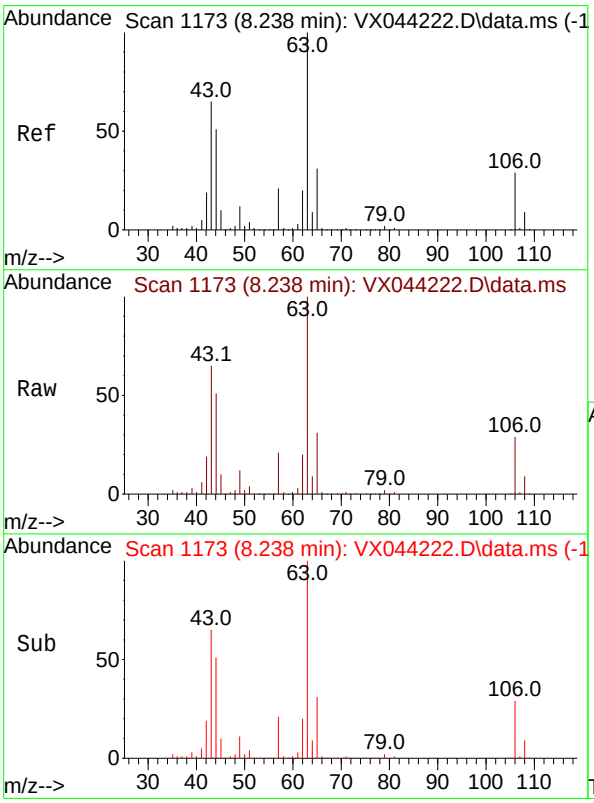
#57
1,3-Dichloropropane
Concen: 51.904 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 143044

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.5	39.7

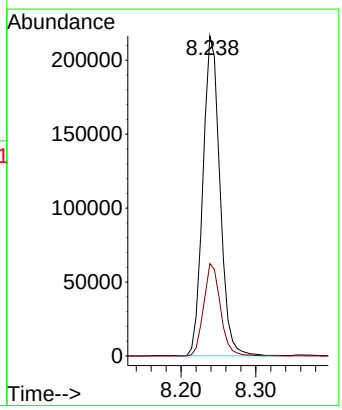


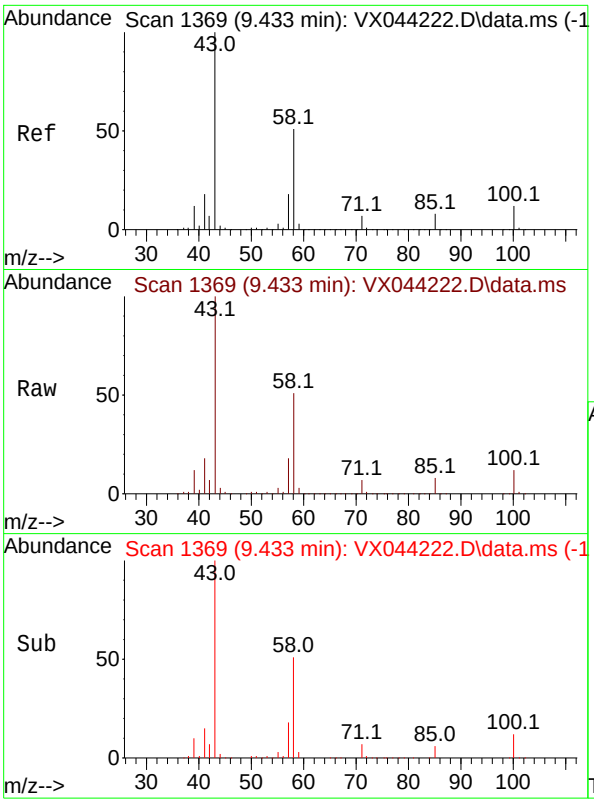


#58
2-Chloroethyl Vinyl ether
Concen: 271.745 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 63 Resp: 342592

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2



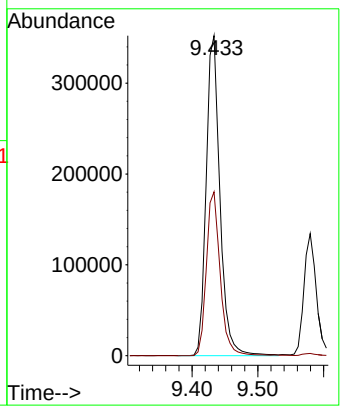


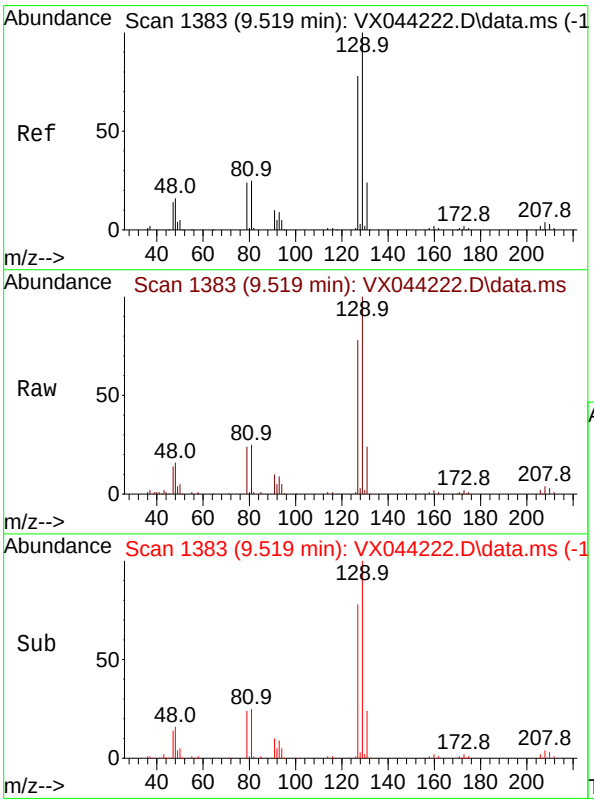
#59
2-Hexanone
Concen: 272.881 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 512906

Ion	Ratio	Lower	Upper
43	100		
58	51.3	25.7	77.0

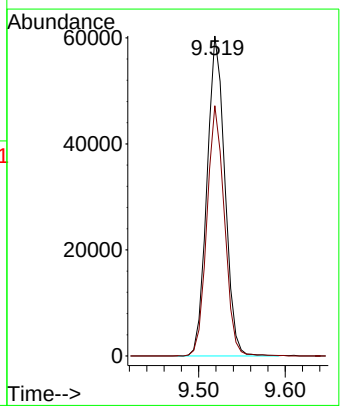


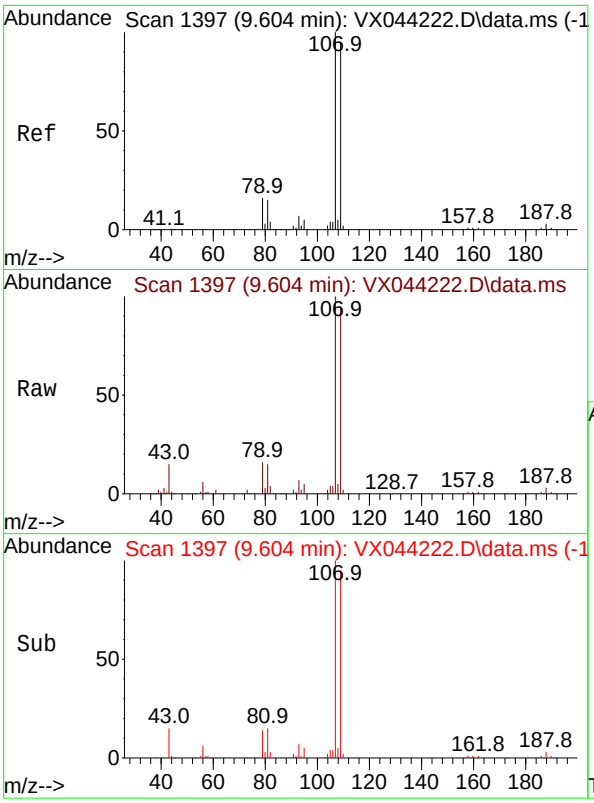


#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:129 Resp: 86352

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.5	115.3



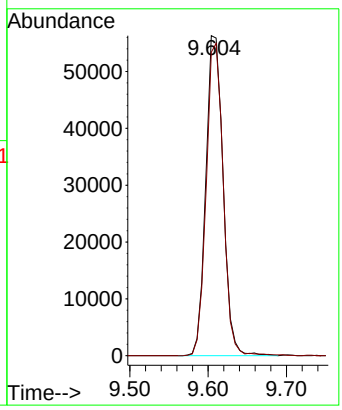


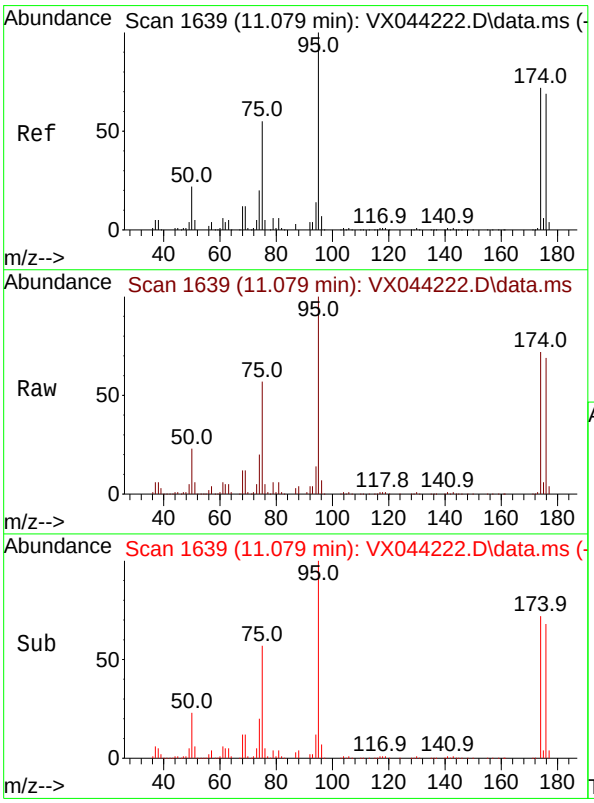
#61
1,2-Dibromoethane
Concen: 53.454 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 86150

Ion	Ratio	Lower	Upper
107	100		
109	96.2	77.0	115.4

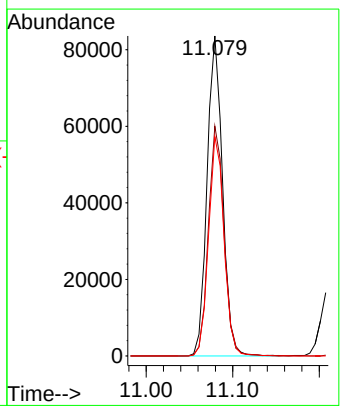


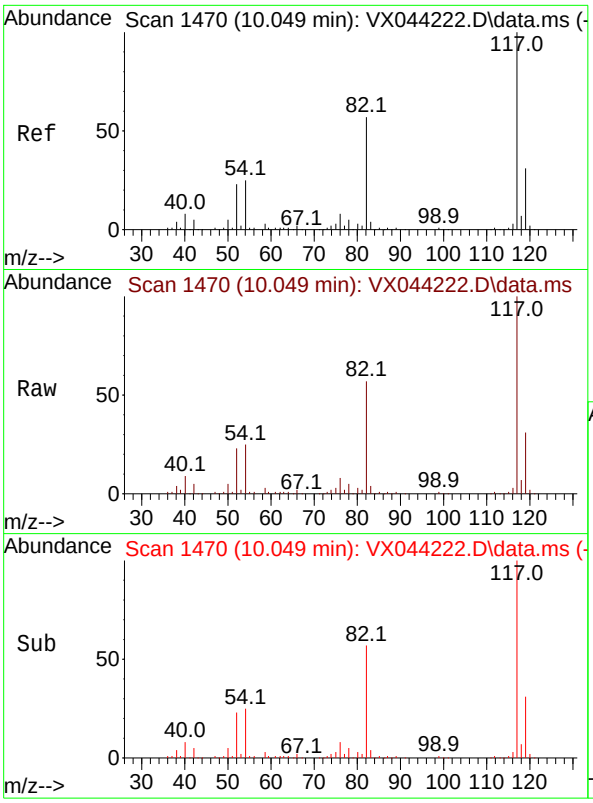


#62
4-Bromofluorobenzene
Concen: 54.123 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 95 Resp: 103178

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	145.8
176	68.9	0.0	137.8



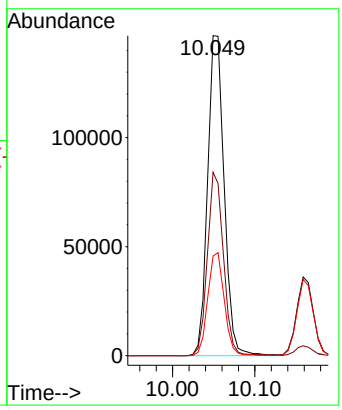


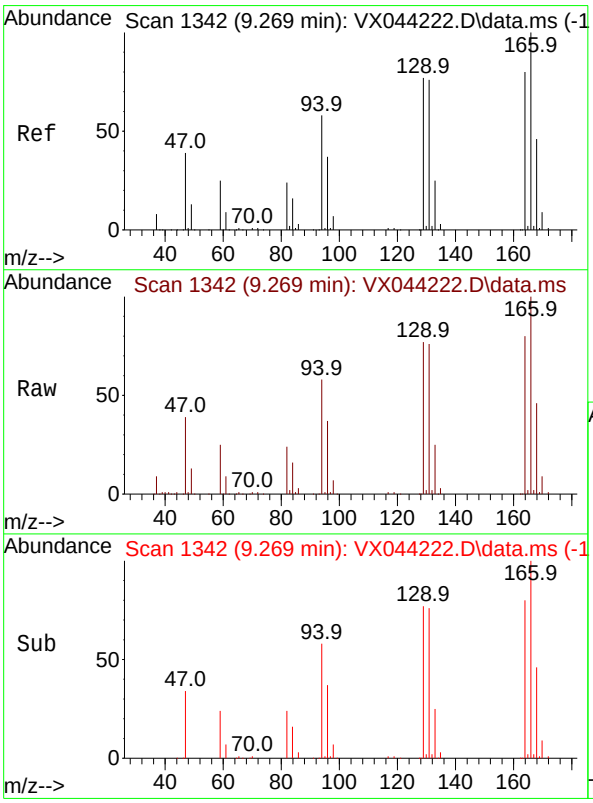
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 205196

Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.8	68.8
119	31.2	25.0	37.4

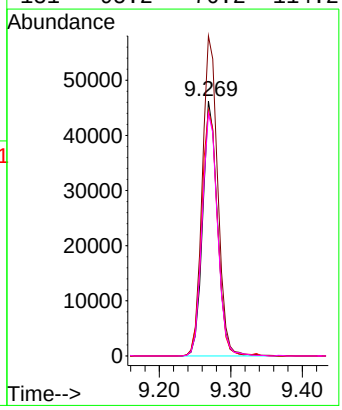


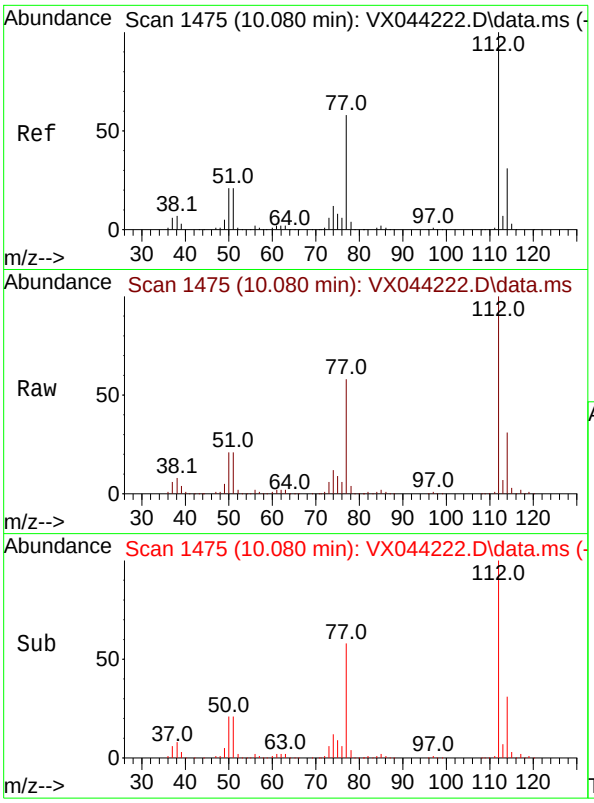


#64
Tetrachloroethene
Concen: 48.379 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:164 Resp: 65888

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	96.5	77.2	115.8
131	95.2	76.2	114.2



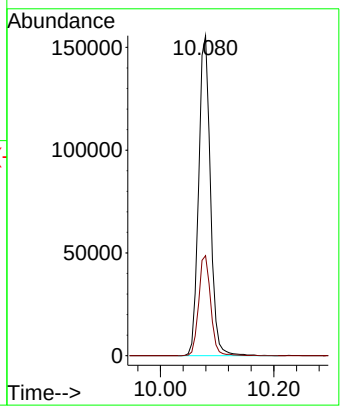


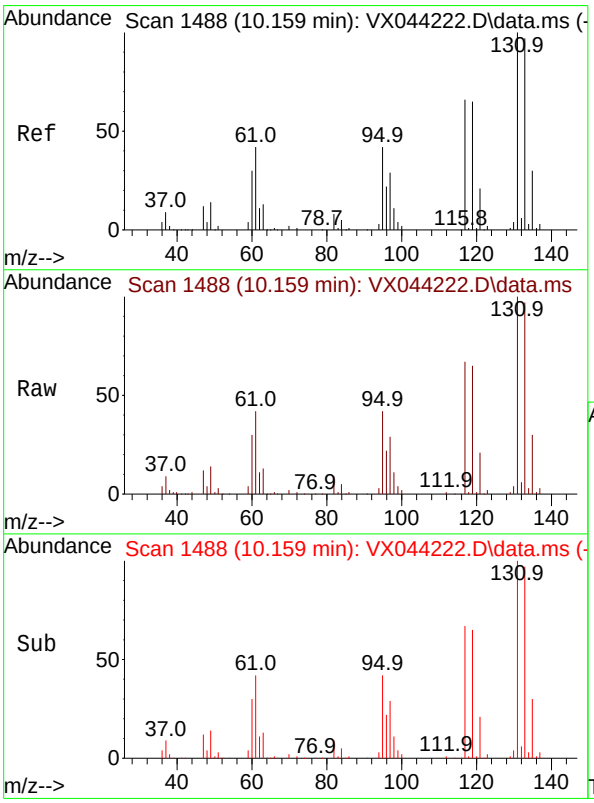
#65
Chlorobenzene
Concen: 50.779 ug/l
RT: 10.080 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 223269

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6

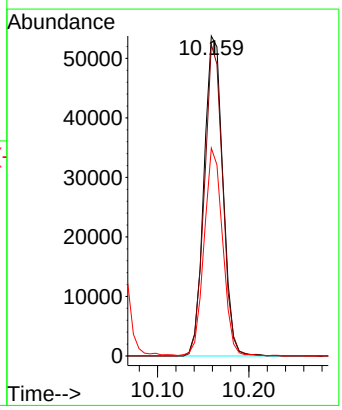


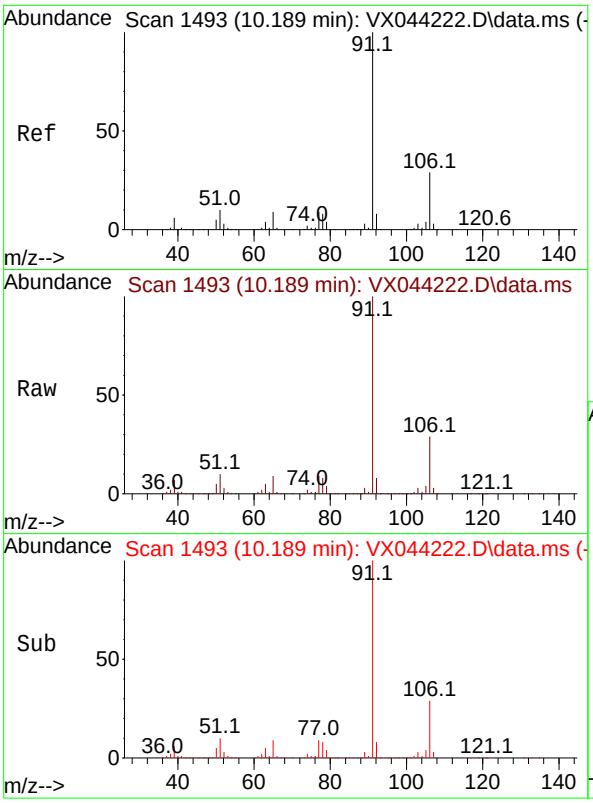


#66
1,1,1,2-Tetrachloroethane
Concen: 54.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:131 Resp: 76867

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	63.3	31.6	95.0



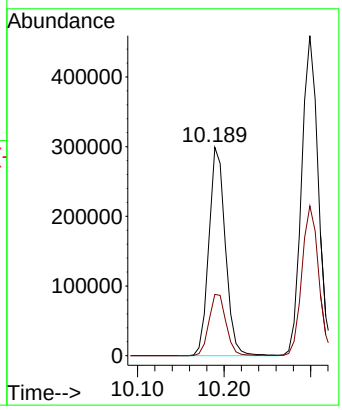


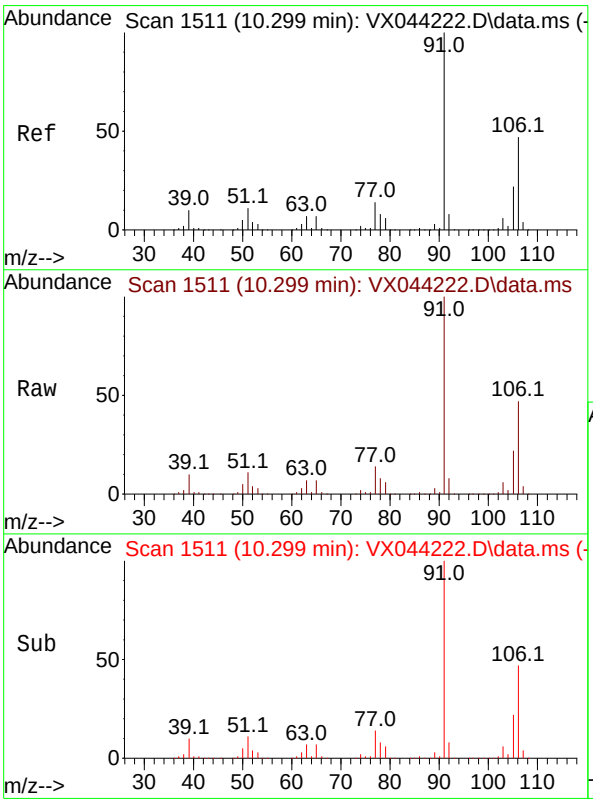
#67
Ethyl Benzene
Concen: 52.050 ug/l
RT: 10.189 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 395430

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.5	35.3

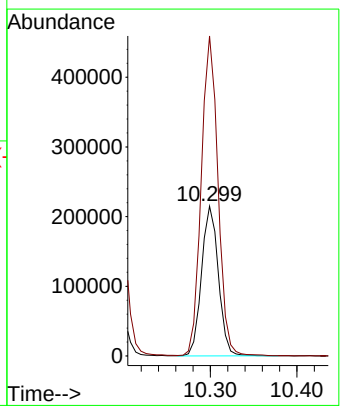


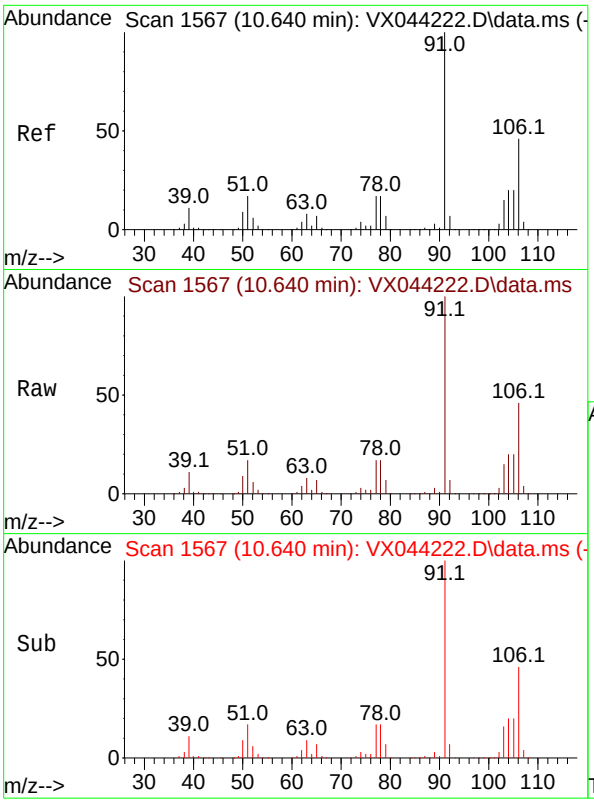


#68
m/p-Xylenes
Concen: 104.094 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:106 Resp: 290181

Ion	Ratio	Lower	Upper
106	100		
91	212.7	170.2	255.2



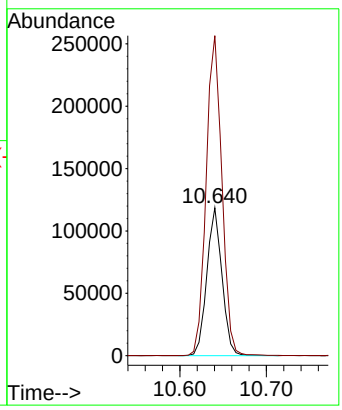


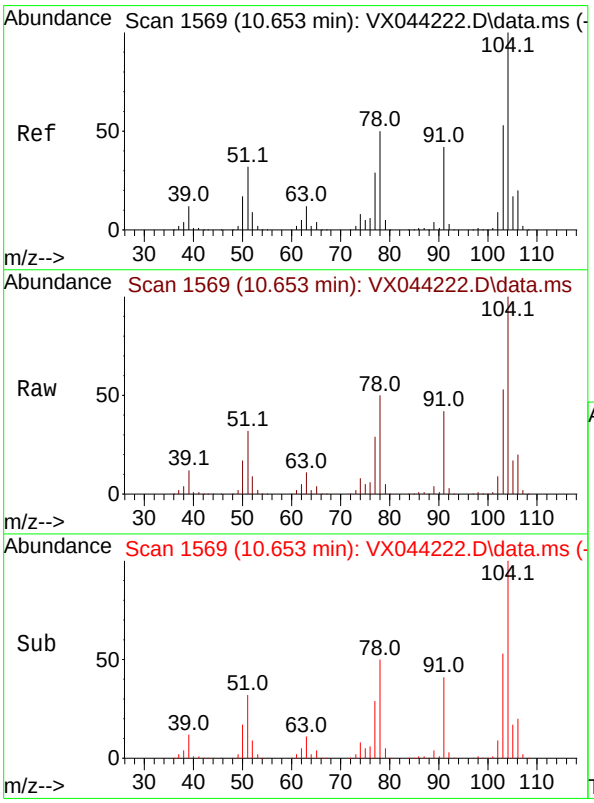
#69
o-Xylene
Concen: 51.141 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 144247

Ion	Ratio	Lower	Upper
106	100		
91	224.7	112.3	337.0

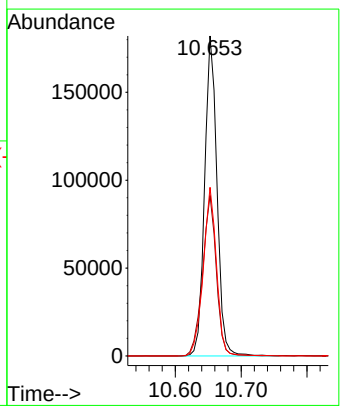


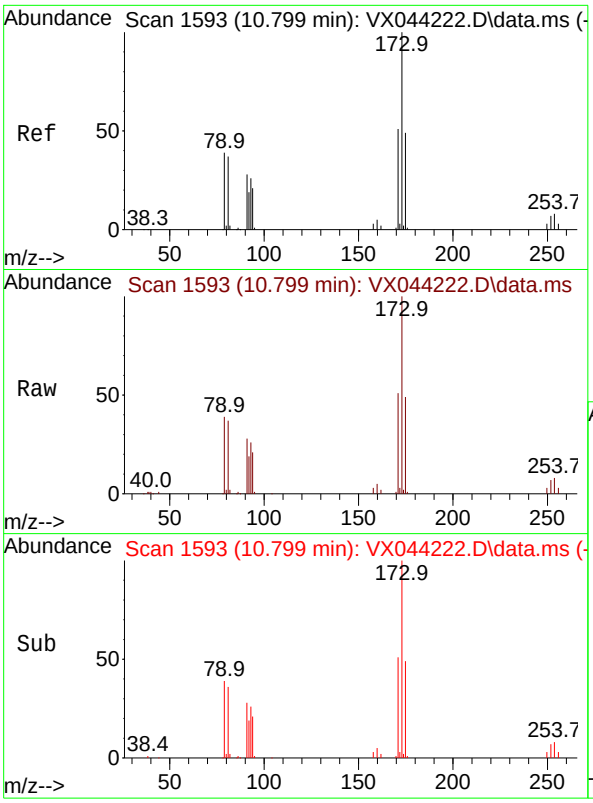


#70
Styrene
Concen: 52.719 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:104 Resp: 238379

Ion	Ratio	Lower	Upper
104	100		
78	55.8	44.6	67.0
103	56.7	45.4	68.0



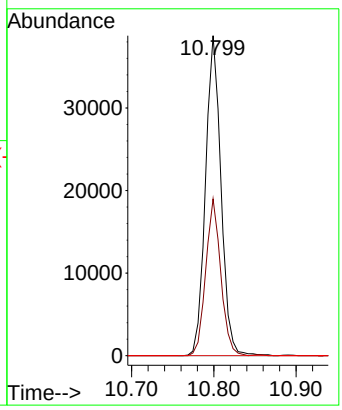


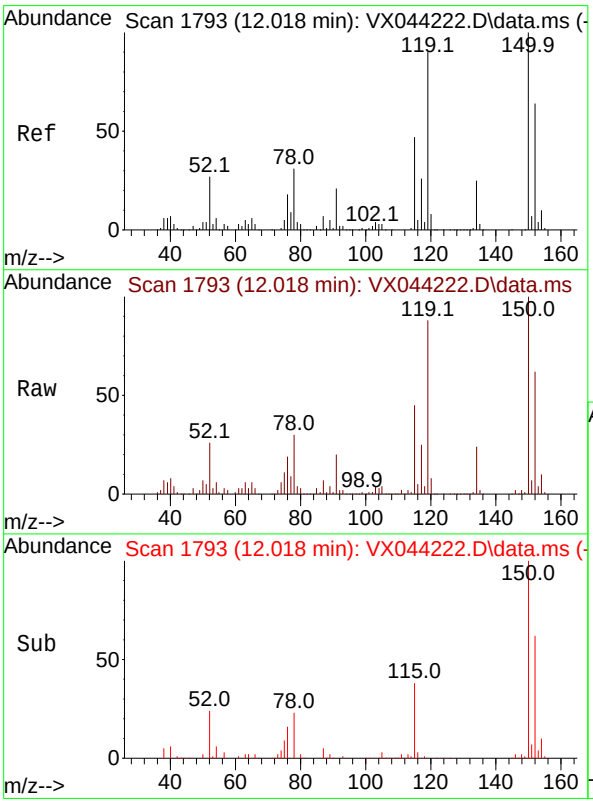
#71
Bromoform
Concen: 51.158 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 50667

Ion	Ratio	Lower	Upper
173	100		
175	47.6	23.8	71.4
254	0.0	0.0	0.0

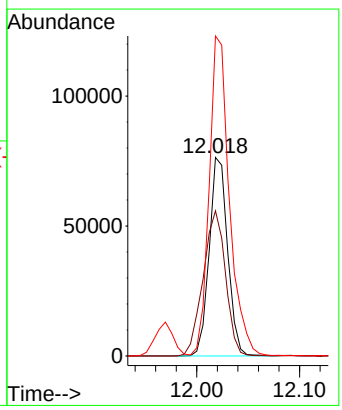


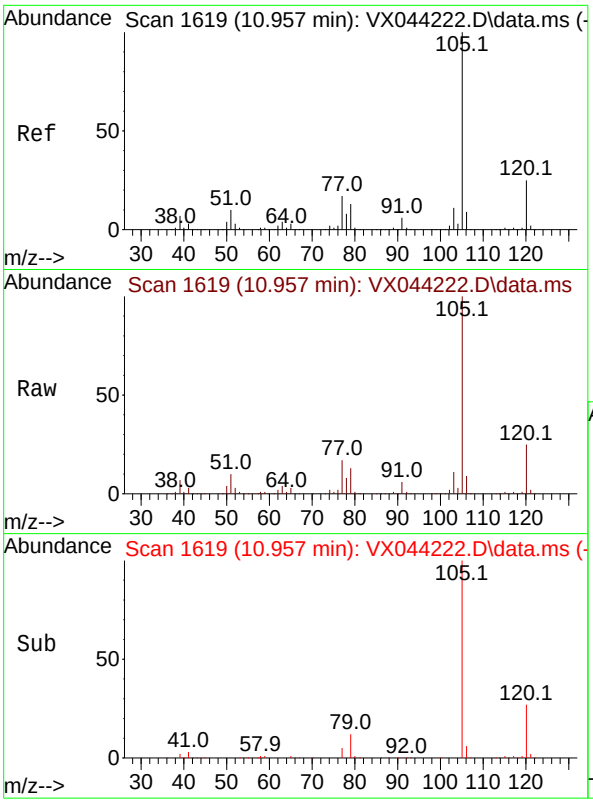


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:152 Resp: 95227

Ion	Ratio	Lower	Upper
152	100		
115	88.9	44.5	133.3
150	176.9	0.0	353.8



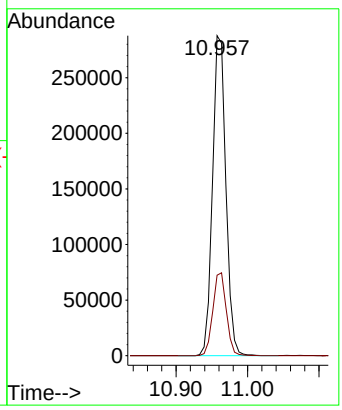


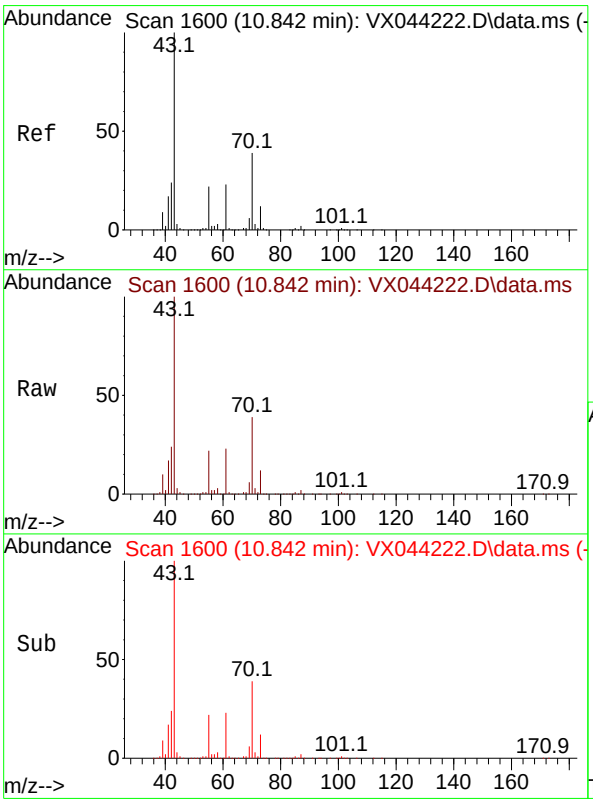
#73
Isopropylbenzene
Concen: 51.100 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 372519

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.1	39.3

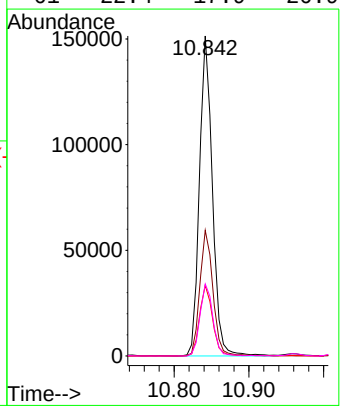


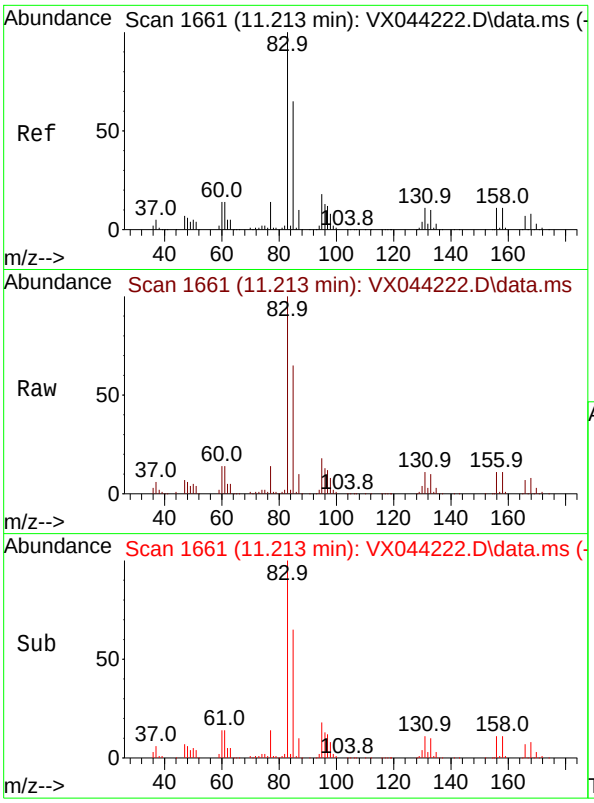


#74
N-amyl acetate
Concen: 54.166 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 43 Resp: 182491

Ion	Ratio	Lower	Upper
43	100		
70	39.9	31.9	47.9
55	22.4	17.9	26.9
61	22.4	17.9	26.9



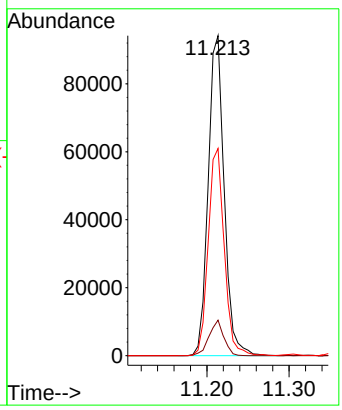


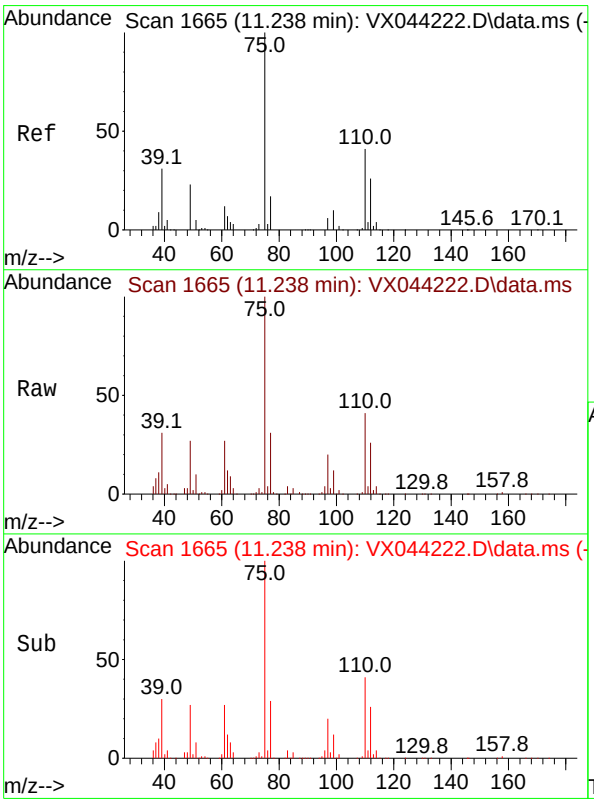
#75
1,1,2,2-Tetrachloroethane
Concen: 50.233 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 127193

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.9	32.5	97.4

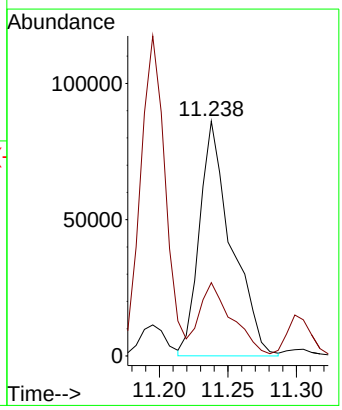


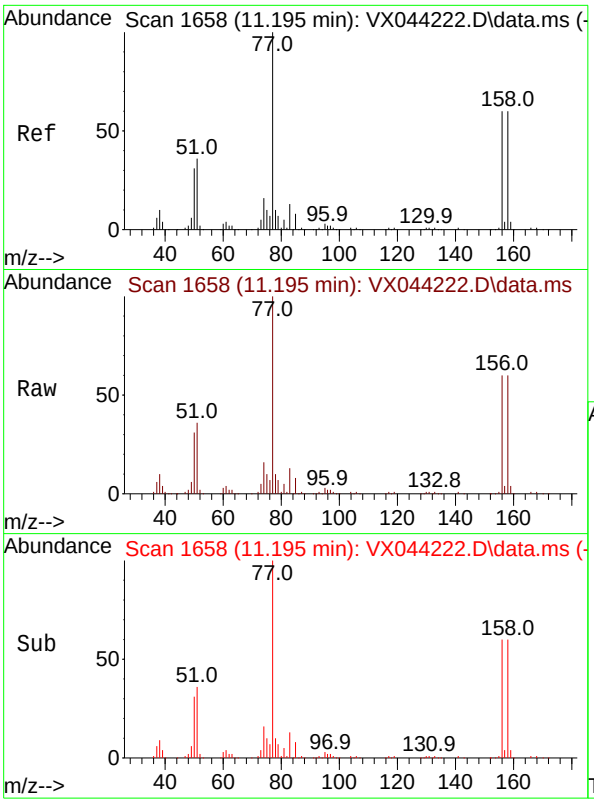


#76
1,2,3-Trichloropropane
Concen: 64.698 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 139805

Ion	Ratio	Lower	Upper
75	100		
77	32.0	20.9	62.7



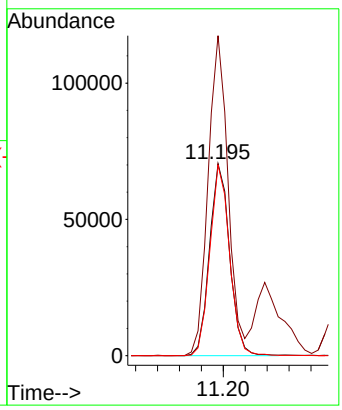


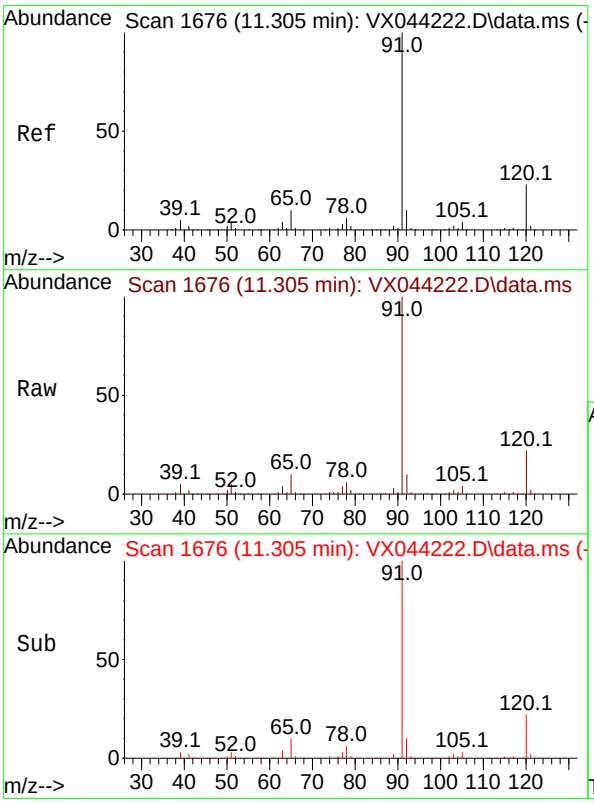
#77
Bromobenzene
Concen: 50.734 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 89687

Ion	Ratio	Lower	Upper
156	100		
77	165.2	82.6	247.8
158	97.6	48.8	146.4

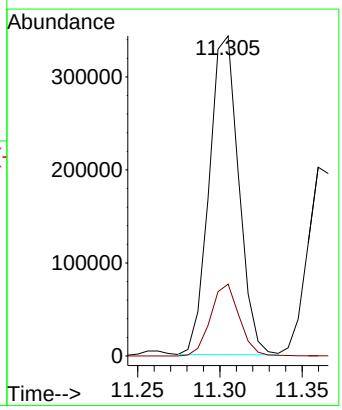


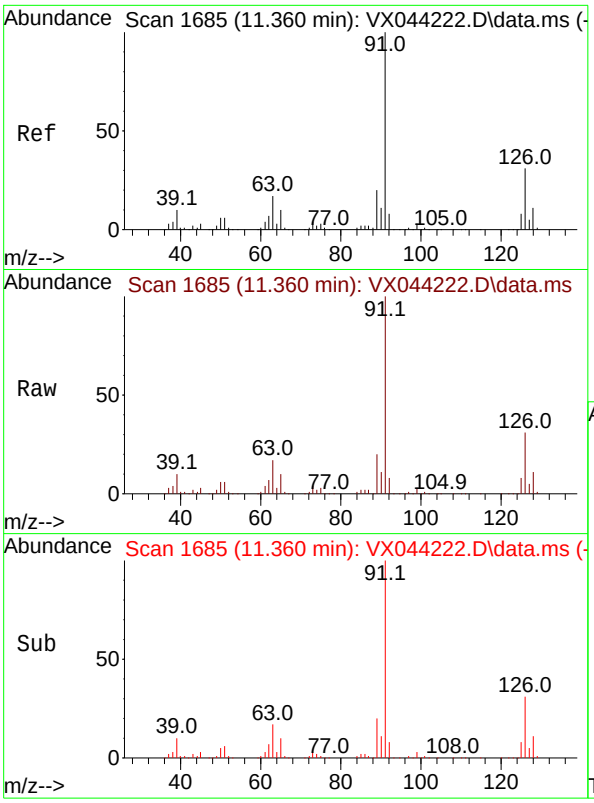


#78
n-propylbenzene
Concen: 53.211 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 428741

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



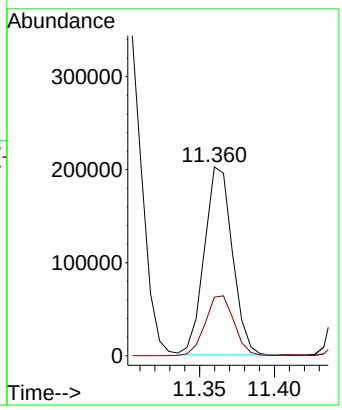


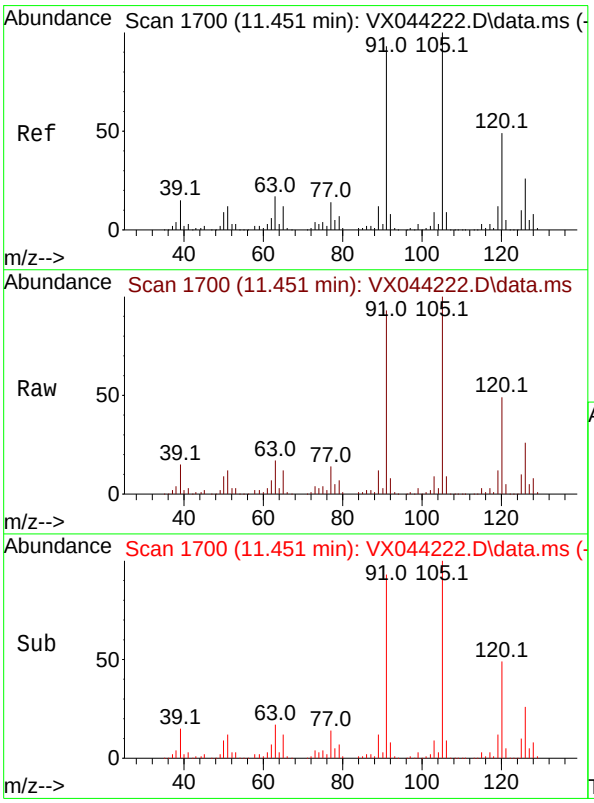
#79
2-Chlorotoluene
Concen: 50.634 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 263849

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.1

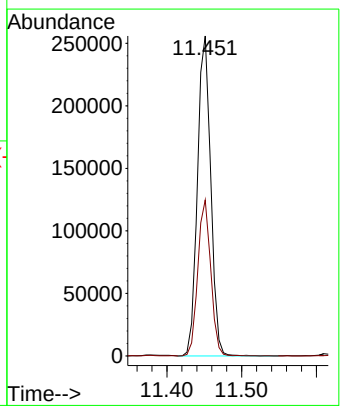


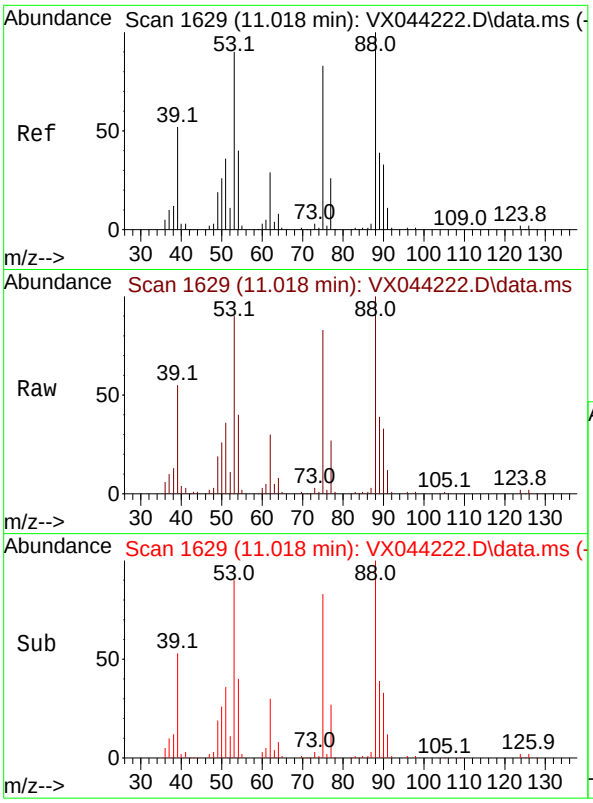


#80
1,3,5-Trimethylbenzene
Concen: 52.102 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 314986

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.4



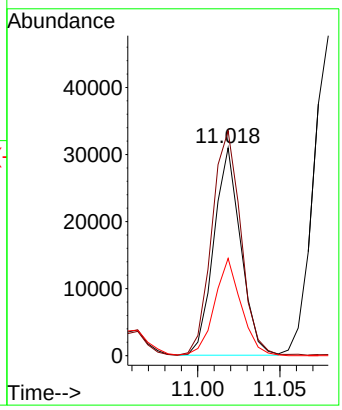


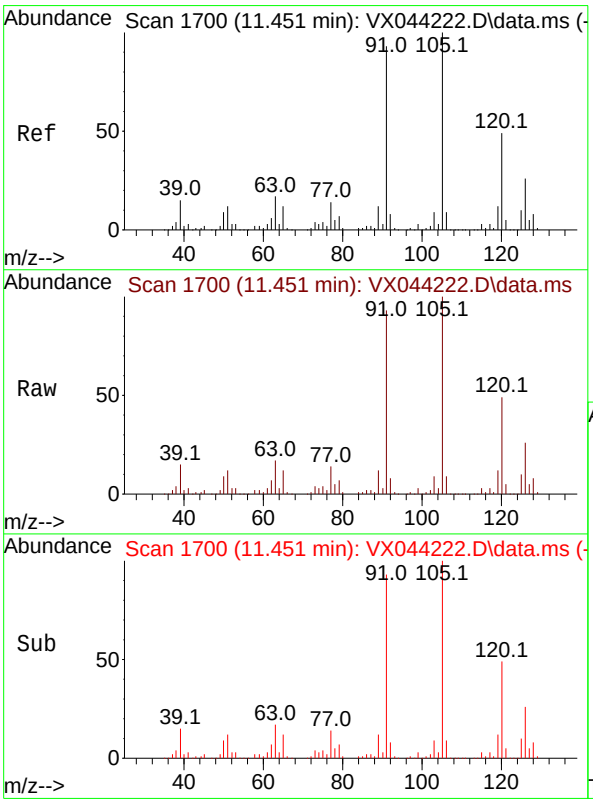
#81
trans-1,4-Dichloro-2-butene
Concen: 47.628 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 35119

Ion	Ratio	Lower	Upper
75	100		
53	117.0	93.6	140.4
89	46.6	37.3	55.9

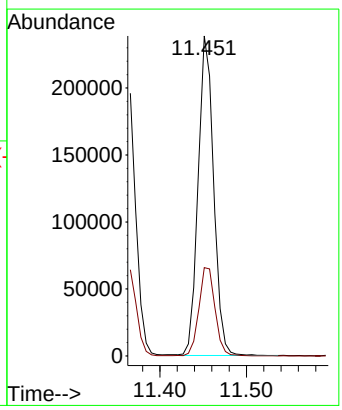


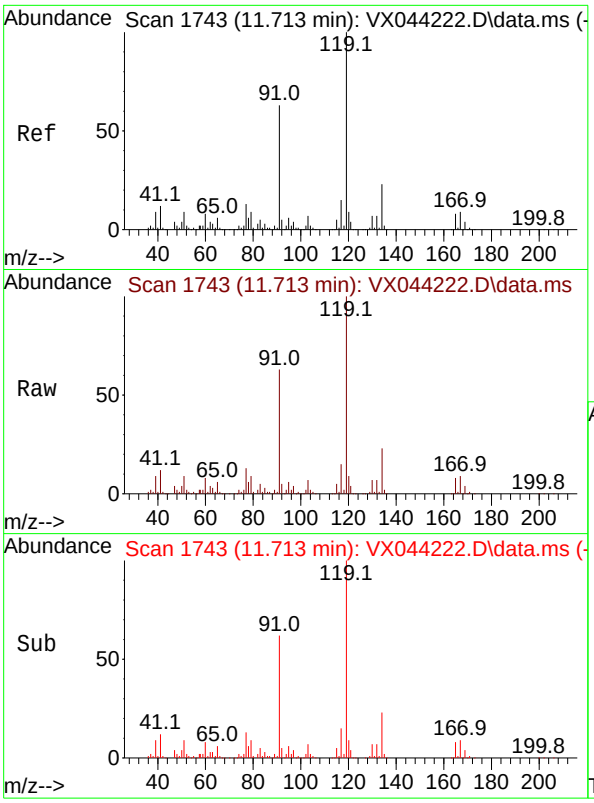


#82
4-Chlorotoluene
Concen: 51.387 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 91 Resp: 296520

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.5	43.5



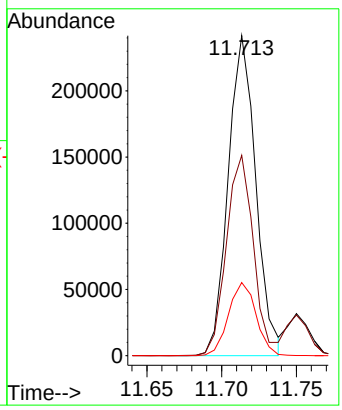


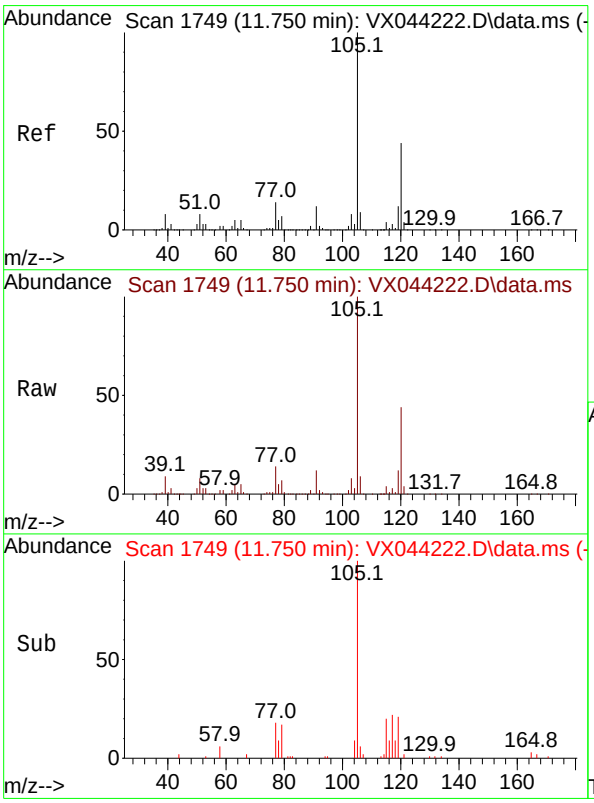
#83
tert-Butylbenzene
Concen: 51.940 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 310320

Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.9	92.5
134	22.9	11.5	34.4

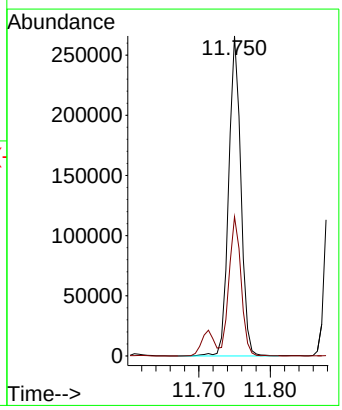


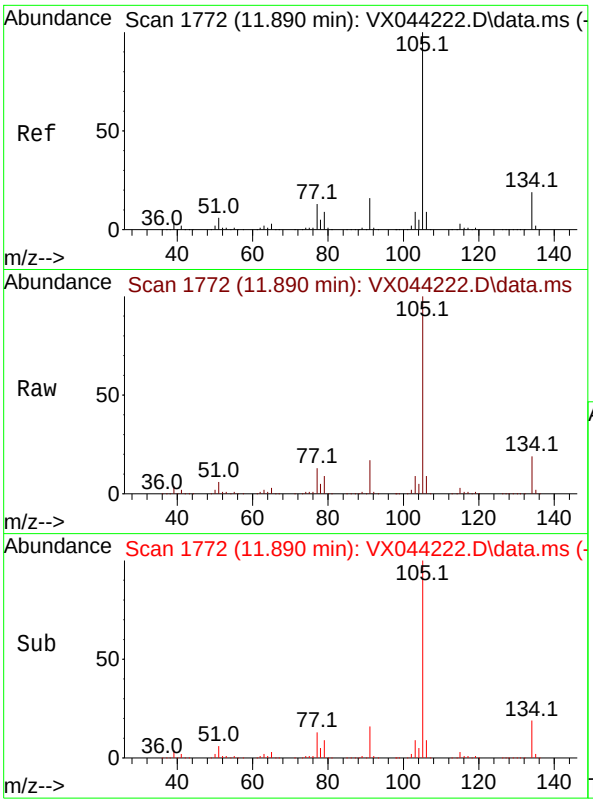


#84
1,2,4-Trimethylbenzene
Concen: 52.776 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:105 Resp: 313338

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.7	65.1



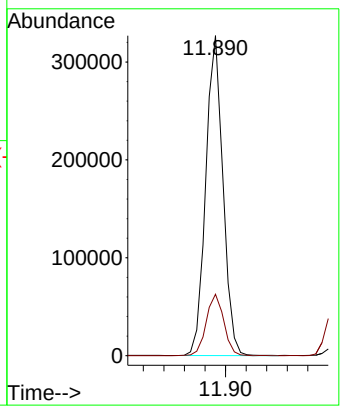


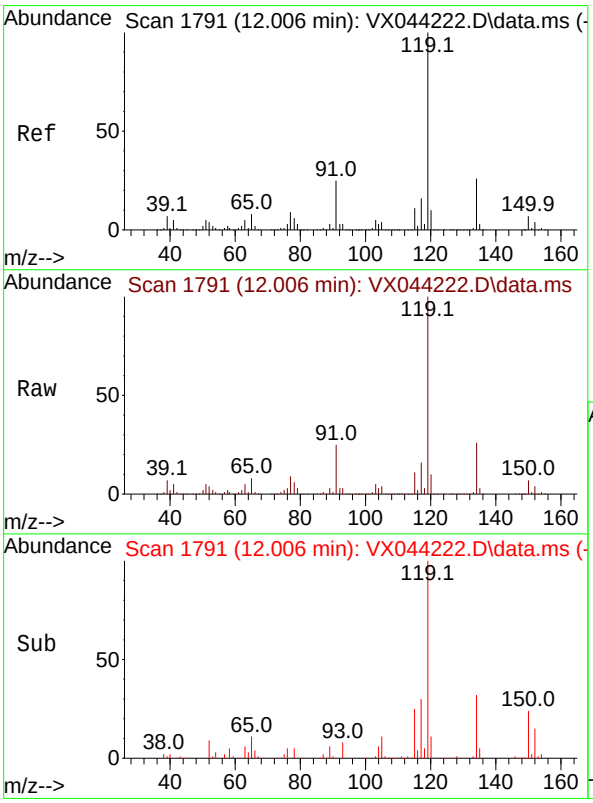
#85
sec-Butylbenzene
Concen: 52.329 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 379552

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

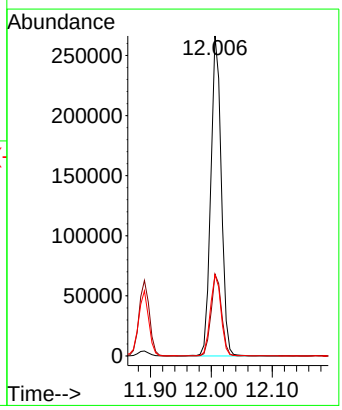


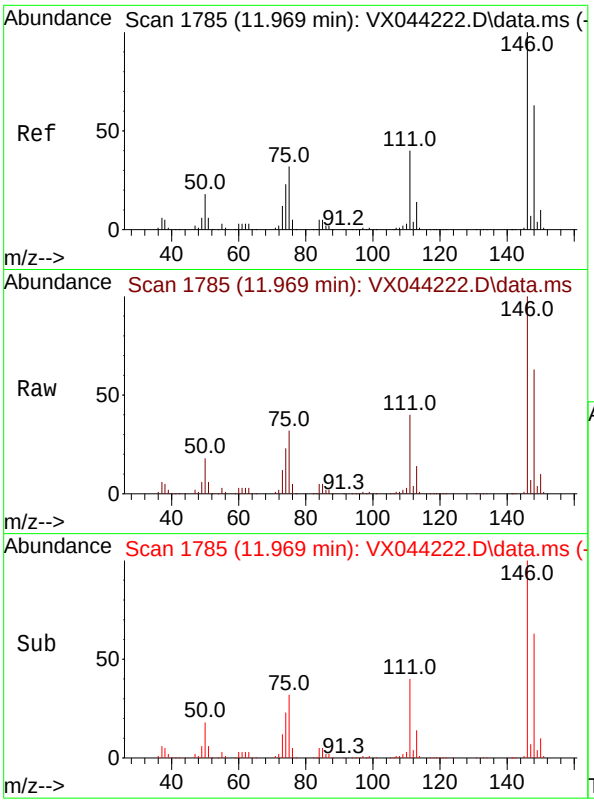


#86
p-Isopropyltoluene
Concen: 52.796 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:119 Resp: 318721

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	26.0	13.0	39.0



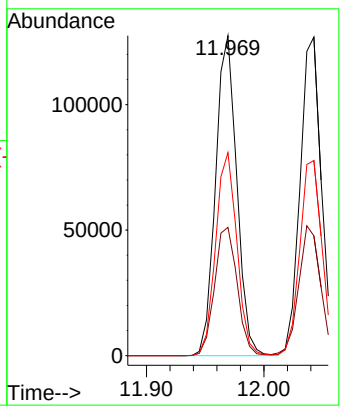


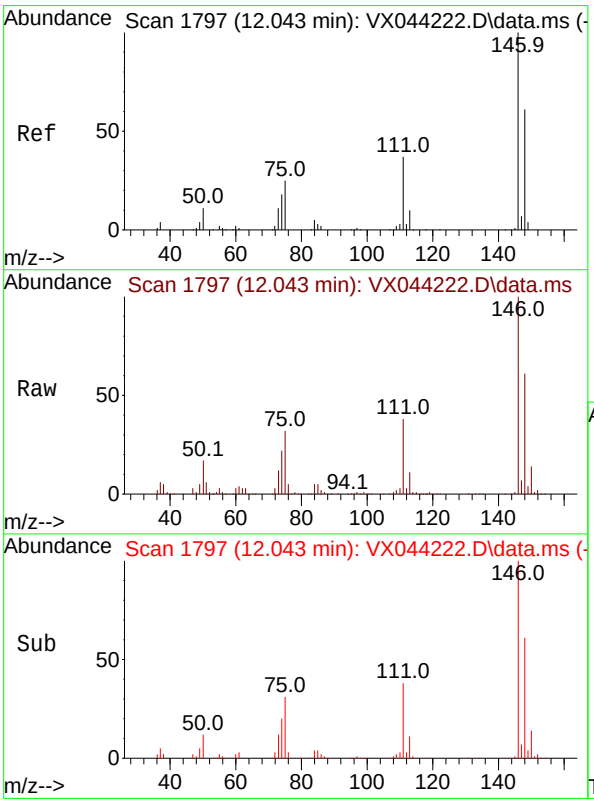
#87
1,3-Dichlorobenzene
Concen: 51.887 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 160223

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.2
148	63.4	31.7	95.1

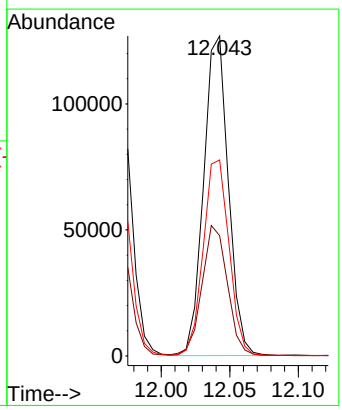


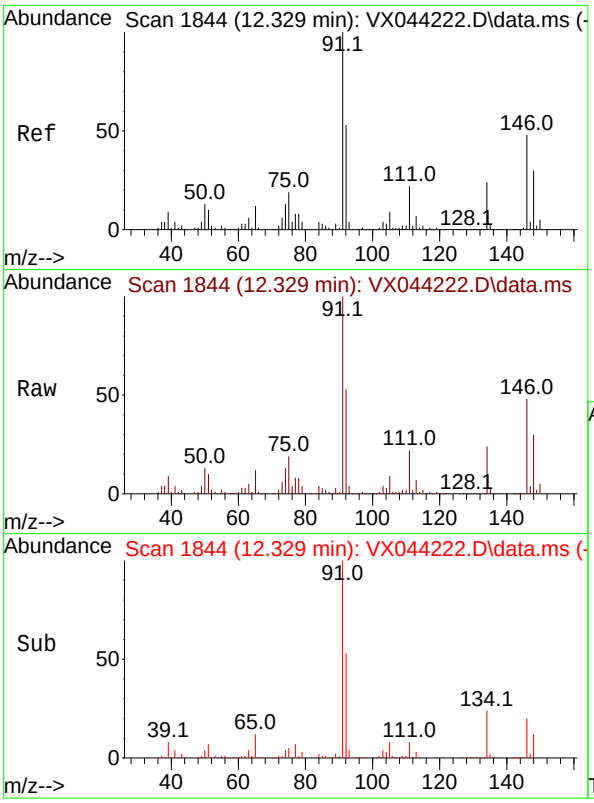


#88
1,4-Dichlorobenzene
Concen: 50.171 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:146 Resp: 159258

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	64.5	32.3	96.8



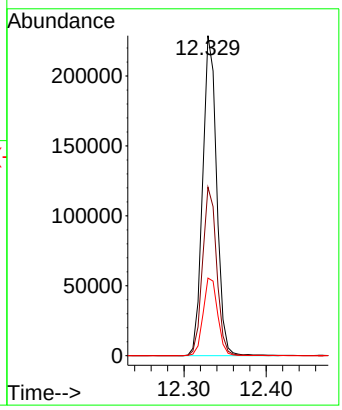


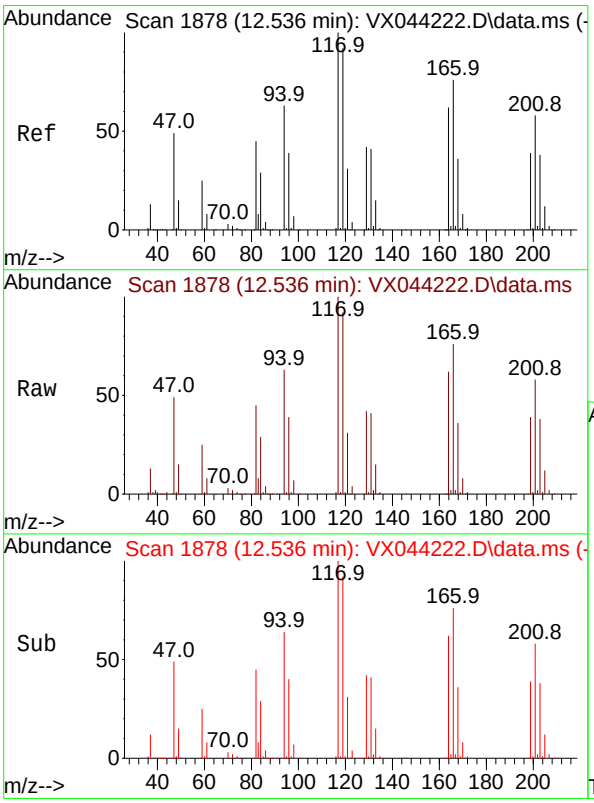
#89
n-Butylbenzene
Concen: 53.354 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 270840

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.7
134	25.2	12.6	37.8

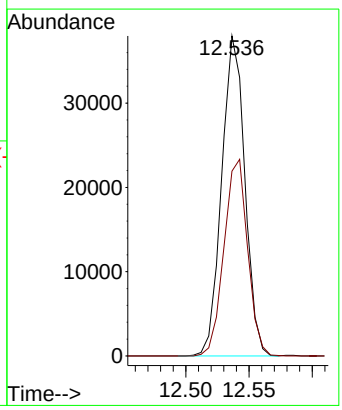


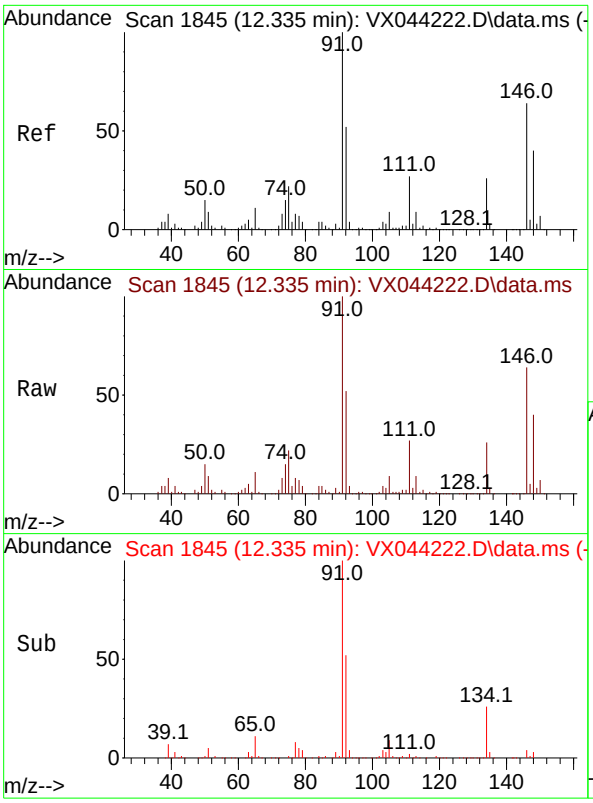


#90
Hexachloroethane
Concen: 54.813 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:117 Resp: 48303

Ion	Ratio	Lower	Upper
117	100		
201	62.8	31.4	94.2



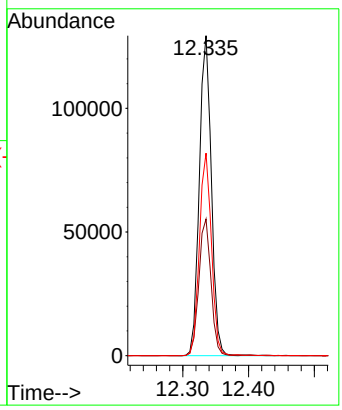


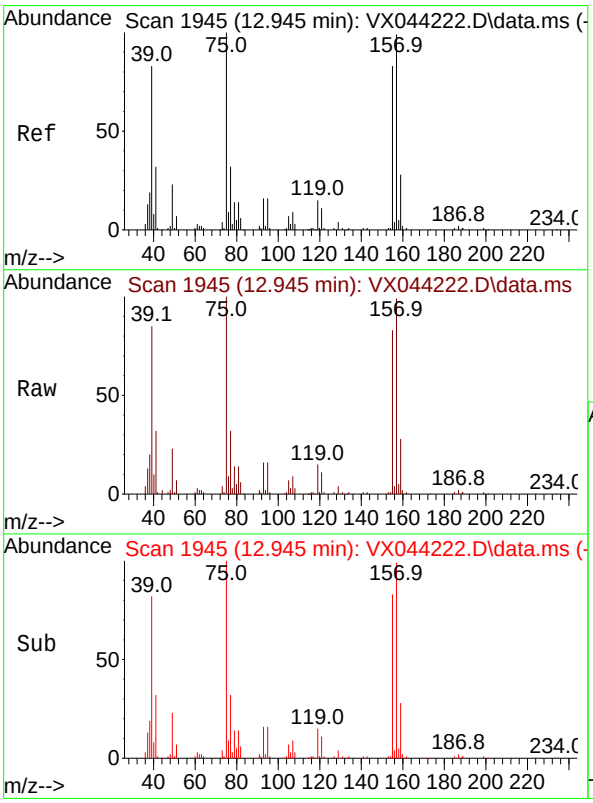
#91
1,2-Dichlorobenzene
Concen: 51.256 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 164342

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	63.3	31.6	95.0

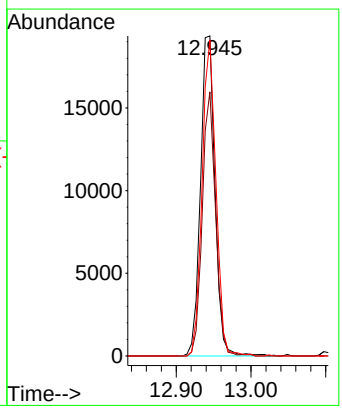


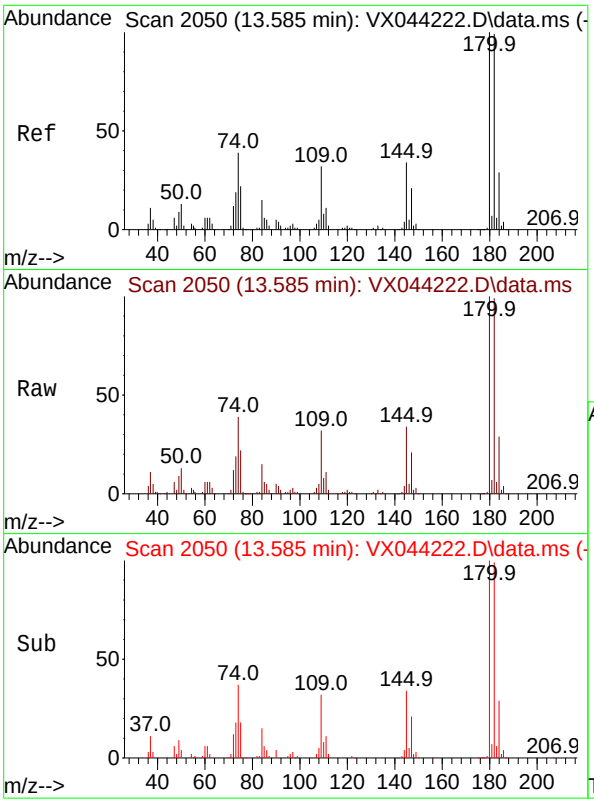


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.951 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion: 75 Resp: 26027

Ion	Ratio	Lower	Upper
75	100		
155	76.2	38.1	114.3
157	94.4	47.2	141.6



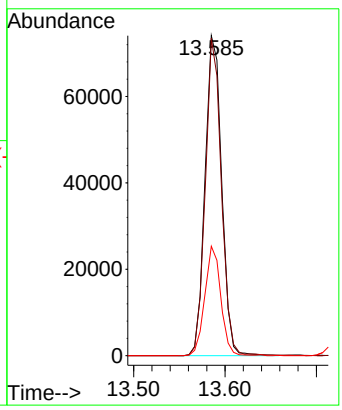


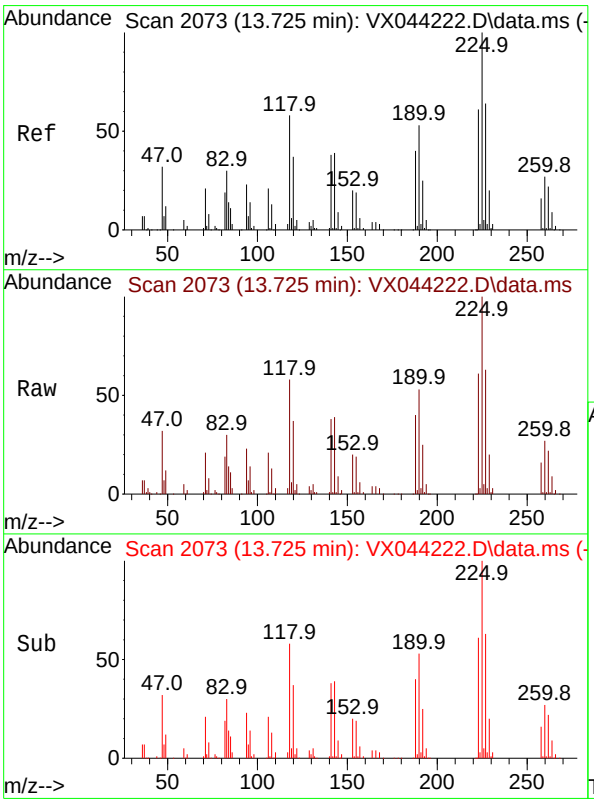
#93
1,2,4-Trichlorobenzene
Concen: 53.005 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 93173

Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	33.1	16.6	49.7

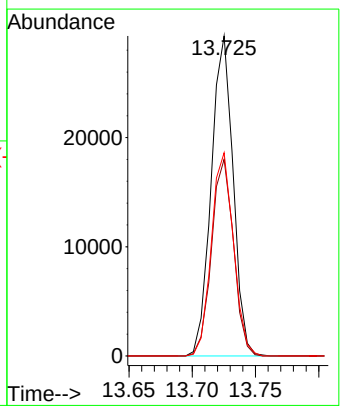


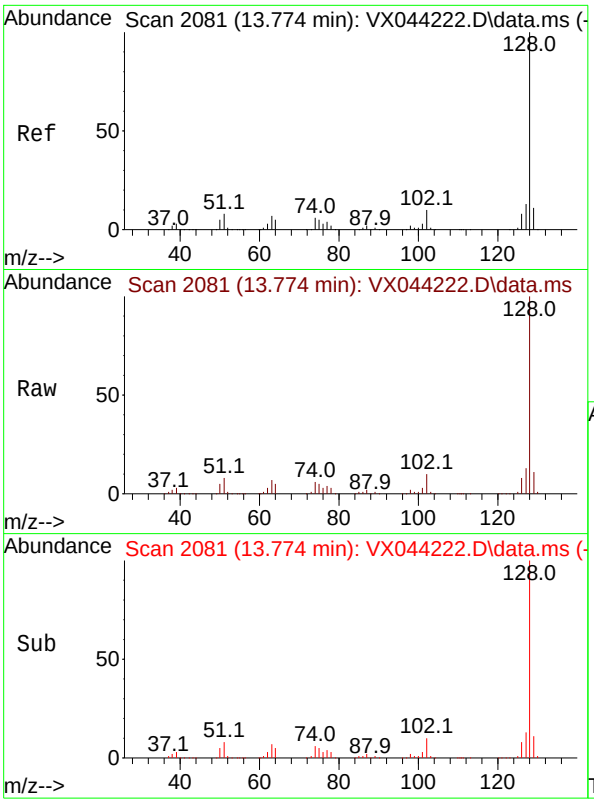


#94
Hexachlorobutadiene
Concen: 49.744 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:225 Resp: 35172

Ion	Ratio	Lower	Upper
225	100		
223	61.6	30.8	92.4
227	64.2	32.1	96.3



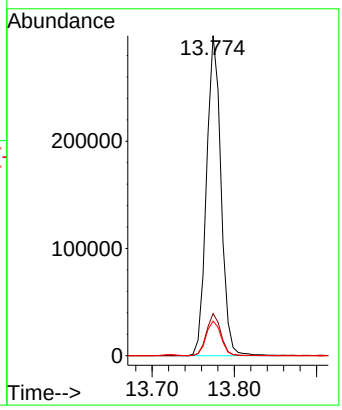


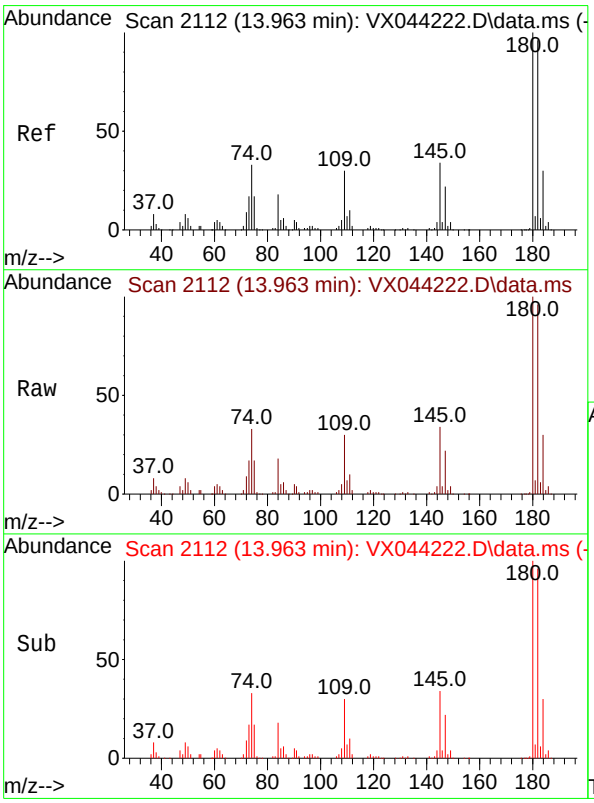
#95
Naphthalene
Concen: 53.230 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 365234

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.2	9.0	13.4

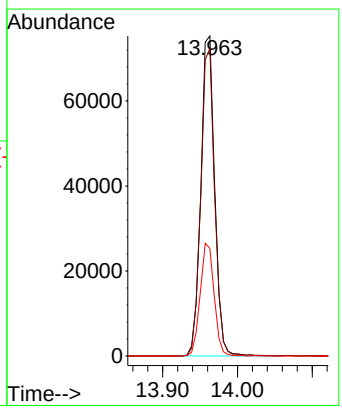




#96
1,2,3-Trichlorobenzene
Concen: 52.027 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044222.D
Acq: 11 Dec 2024 12:14

Tgt Ion:180 Resp: 97000

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	35.4	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	130101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	235738	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	209164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	97670	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	224292	98.326	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.660%#			
35) Dibromofluoromethane	5.379	113	169582	103.866	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 207.740%#			
50) Toluene-d8	8.647	98	579477	105.201	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 210.400%#			
62) 4-Bromofluorobenzene	11.079	95	203694	105.830	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 211.660%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	193785	96.329	ug/l	97
3) Chloromethane	1.295	50	186167	96.774	ug/l	99
4) Vinyl Chloride	1.374	62	187739	93.675	ug/l	99
5) Bromomethane	1.593	94	137770	96.897	ug/l	97
6) Chloroethane	1.660	64	109912	88.074	ug/l	95
7) Trichlorofluoromethane	1.862	101	384622	98.030	ug/l	98
8) Diethyl Ether	2.136	74	124039	92.618	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	149151	93.944	ug/l	99
10) Methyl Iodide	2.441	142	203545	97.275	ug/l	100
11) Tert butyl alcohol	3.008	59	173139	539.406	ug/l	100
12) 1,1-Dichloroethene	2.307	96	144268	98.930	ug/l	100
13) Acrolein	2.240	56	226037	485.718	ug/l	99
14) Allyl chloride	2.654	41	244602	100.703	ug/l	99
15) Acrylonitrile	3.069	53	446747	501.661	ug/l	99
16) Acetone	2.392	43	452955	487.065	ug/l	97
17) Carbon Disulfide	2.496	76	320036	115.453	ug/l	99
18) Methyl Acetate	2.709	43	230998	96.338	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	564545	99.205	ug/l	99
20) Methylene Chloride	2.782	84	168498	96.466	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	154797	99.880	ug/l	98
22) Diisopropyl ether	3.764	45	538742	98.498	ug/l	99
23) Vinyl Acetate	3.721	43	2395923	538.801	ug/l	100
24) 1,1-Dichloroethane	3.605	63	304626	99.915	ug/l	99
25) 2-Butanone	4.568	43	662768	501.306	ug/l	99
26) 2,2-Dichloropropane	4.471	77	258092	104.201	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	190127	96.593	ug/l	99
28) Bromochloromethane	4.891	49	144783	96.842	ug/l	99
29) Tetrahydrofuran	5.007	42	412666	486.290	ug/l	99
30) Chloroform	5.093	83	331047	96.642	ug/l	98
31) Cyclohexane	5.458	56	239879	97.433	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	291065	102.363	ug/l	99
36) 1,1-Dichloropropene	5.684	75	209732	99.376	ug/l	98
37) Ethyl Acetate	4.721	43	266307	102.079	ug/l	100
38) Carbon Tetrachloride	5.672	117	236869	104.249	ug/l	96
39) Methylcyclohexane	7.373	83	259368	102.800	ug/l	98
40) Benzene	6.032	78	638055	99.575	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	140375	101.332	ug/l		99
42) 1,2-Dichloroethane	6.086	62	261991	99.255	ug/l		99
43) Isopropyl Acetate	6.342	43	427893	104.939	ug/l		99
44) Trichloroethene	7.123	130	158990	99.497	ug/l		99
45) 1,2-Dichloropropane	7.428	63	160913	98.293	ug/l		97
46) Dibromomethane	7.580	93	130316	102.607	ug/l		99
47) Bromodichloromethane	7.818	83	244401	111.423	ug/l		100
48) Methyl methacrylate	7.696	41	203116	102.618	ug/l		99
49) 1,4-Dioxane	7.665	88	61921	1830.521	ug/l	#	80
51) 4-Methyl-2-Pentanone	8.574	43	1322678	504.496	ug/l		99
52) Toluene	8.714	92	396383	98.506	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	248092	99.321	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	263014	110.127	ug/l		98
55) 1,1,2-Trichloroethane	9.153	97	157366	98.441	ug/l		98
56) Ethyl methacrylate	9.116	69	271146	107.442	ug/l		99
57) 1,3-Dichloropropane	9.305	76	274642	98.704	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	671233	527.342	ug/l		100
59) 2-Hexanone	9.433	43	989466	521.401	ug/l		99
60) Dibromochloromethane	9.519	129	178135	99.480	ug/l		99
61) 1,2-Dibromoethane	9.610	107	171458	105.371	ug/l		97
64) Tetrachloroethene	9.269	164	130678	94.131	ug/l		97
65) Chlorobenzene	10.080	112	433179	96.650	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	153882	106.831	ug/l		99
67) Ethyl Benzene	10.195	91	765930	98.906	ug/l		97
68) m/p-Xylenes	10.299	106	571648	201.171	ug/l		99
69) o-Xylene	10.640	106	280603	97.597	ug/l		100
70) Styrene	10.653	104	480077	104.159	ug/l		97
71) Bromoform	10.799	173	112482	99.723	ug/l	#	98
73) Isopropylbenzene	10.964	105	731955	97.894	ug/l		99
74) N-amyl acetate	10.842	43	371420	107.485	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.214	83	245395	94.491	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	278299	125.569	ug/l		85
77) Bromobenzene	11.195	156	175647	96.874	ug/l		98
78) n-propylbenzene	11.305	91	836676	101.242	ug/l		99
79) 2-Chlorotoluene	11.366	91	504407	94.377	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	604993	97.570	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	78453	97.165	ug/l		94
82) 4-Chlorotoluene	11.451	91	588197	99.384	ug/l		99
83) tert-Butylbenzene	11.713	119	606738	99.013	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	614999	100.994	ug/l		100
85) sec-Butylbenzene	11.890	105	743098	99.889	ug/l		100
86) p-Isopropyltoluene	12.006	119	624416	100.847	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	317377	100.210	ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	316688	97.271	ug/l		99
89) n-Butylbenzene	12.329	91	564303	108.385	ug/l		99
90) Hexachloroethane	12.536	117	105946	117.218	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	323040	98.232	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	54588	108.279	ug/l		93
93) 1,2,4-Trichlorobenzene	13.585	180	197899	109.766	ug/l		98
94) Hexachlorobutadiene	13.725	225	72453	99.908	ug/l		97
95) Naphthalene	13.774	128	755181	107.308	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	206053	107.754	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

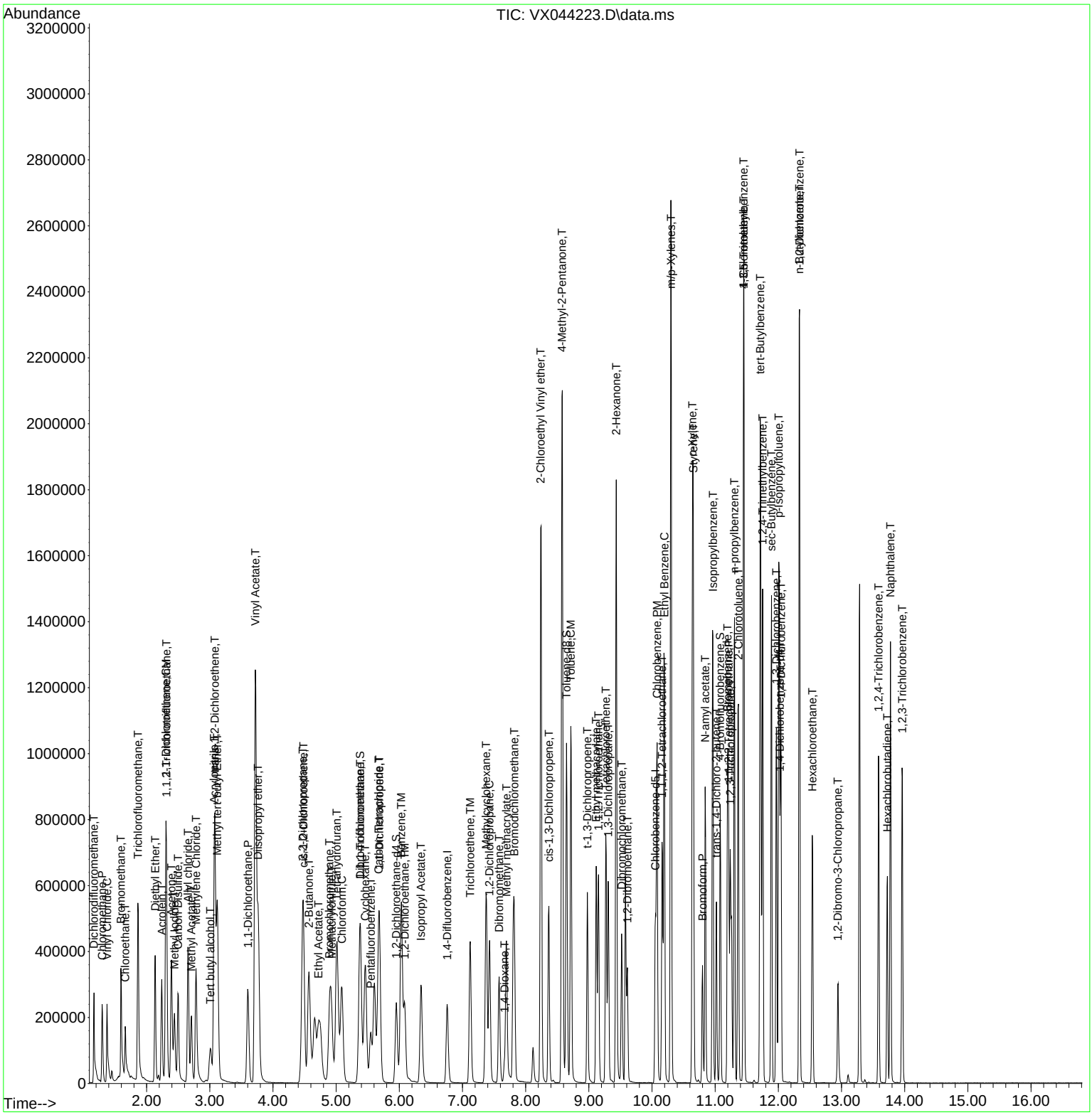
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

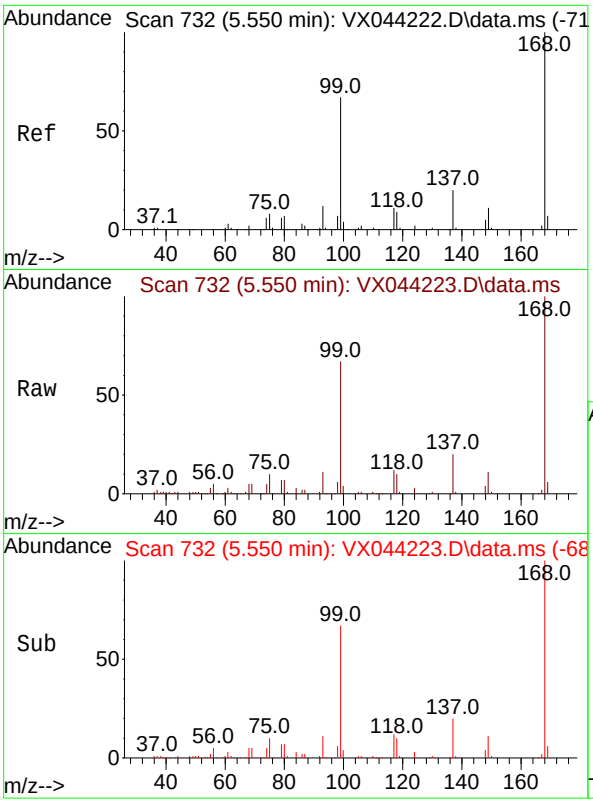
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044223.D
Acq On : 11 Dec 2024 12:37
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Dec 12 04:15:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



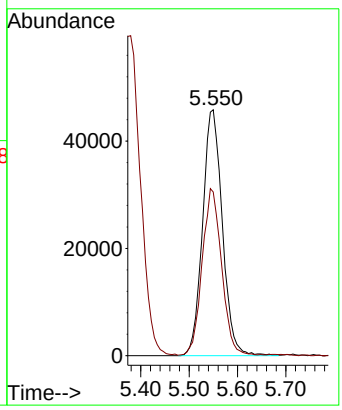


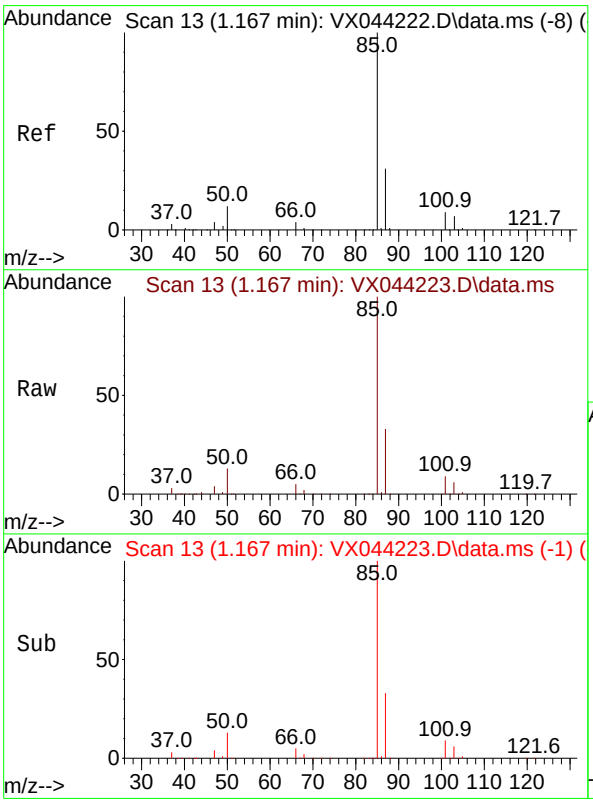
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 130101

Ion	Ratio	Lower	Upper
168	100		
99	66.4	53.4	80.0

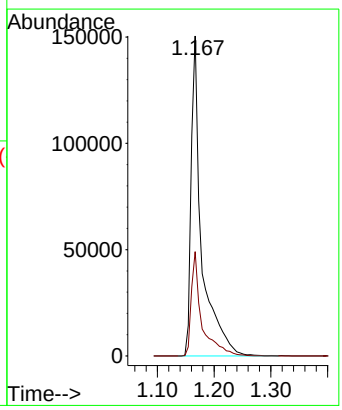


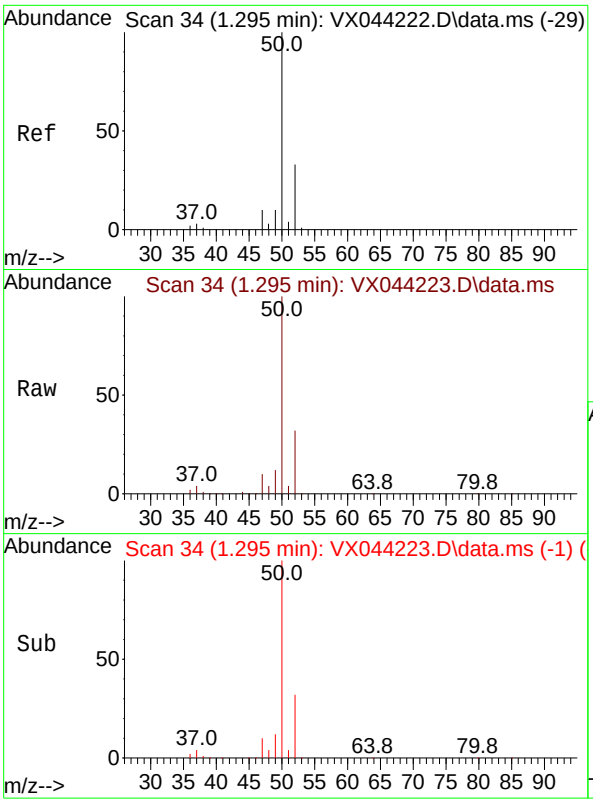


#2
Dichlorodifluoromethane
Concen: 96.329 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 85 Resp: 193785

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.4	46.4



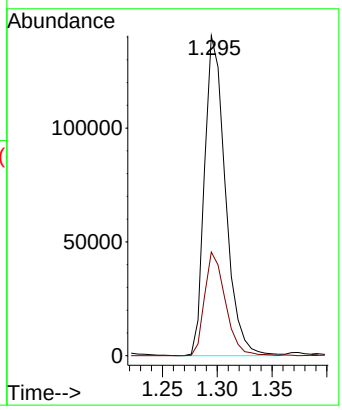


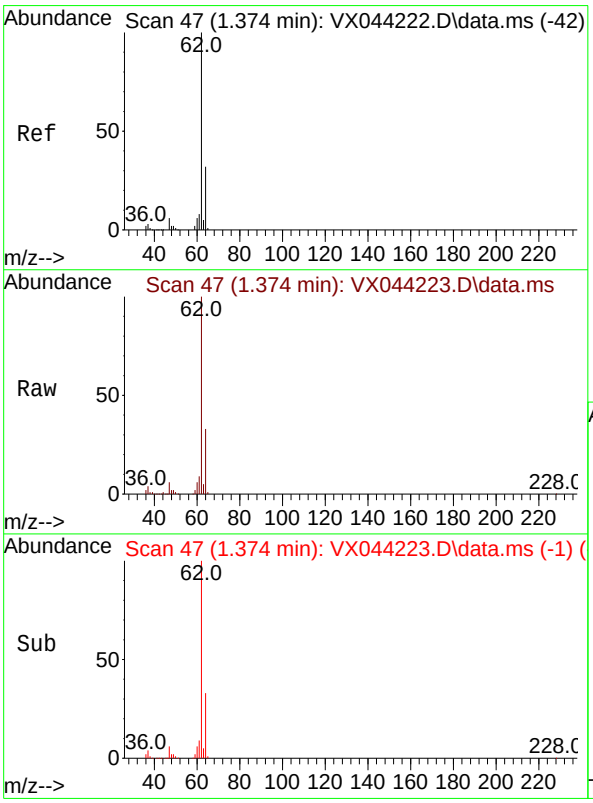
#3
Chloromethane
Concen: 96.774 ug/l
RT: 1.295 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 186167

Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.5	39.7

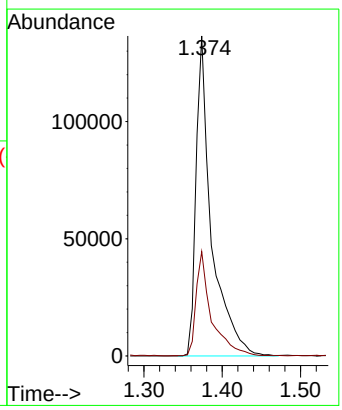


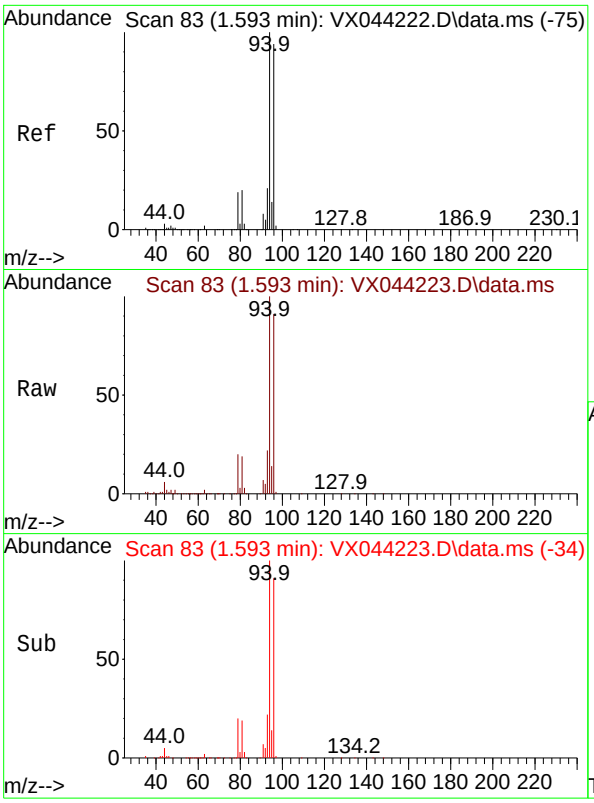


#4
Vinyl Chloride
Concen: 93.675 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 187739

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5



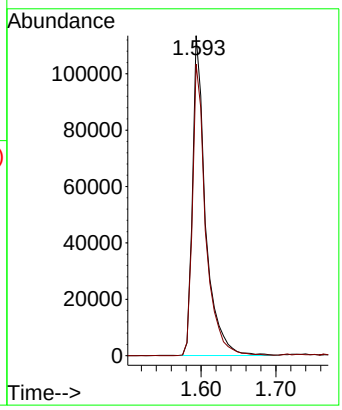


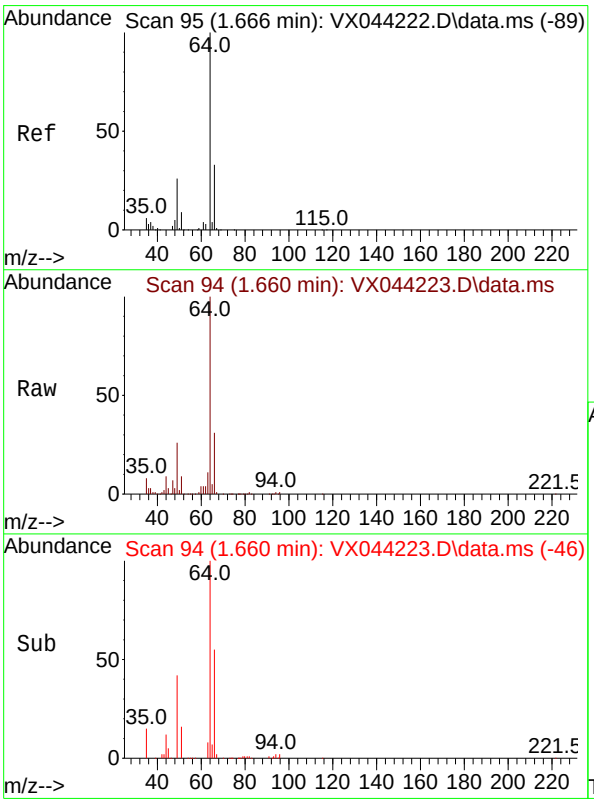
#5
Bromomethane
Concen: 96.897 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 137770

Ion	Ratio	Lower	Upper
94	100		
96	91.1	74.9	112.3

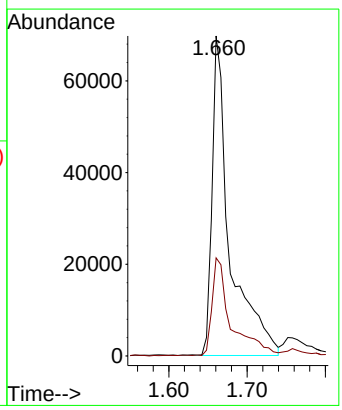


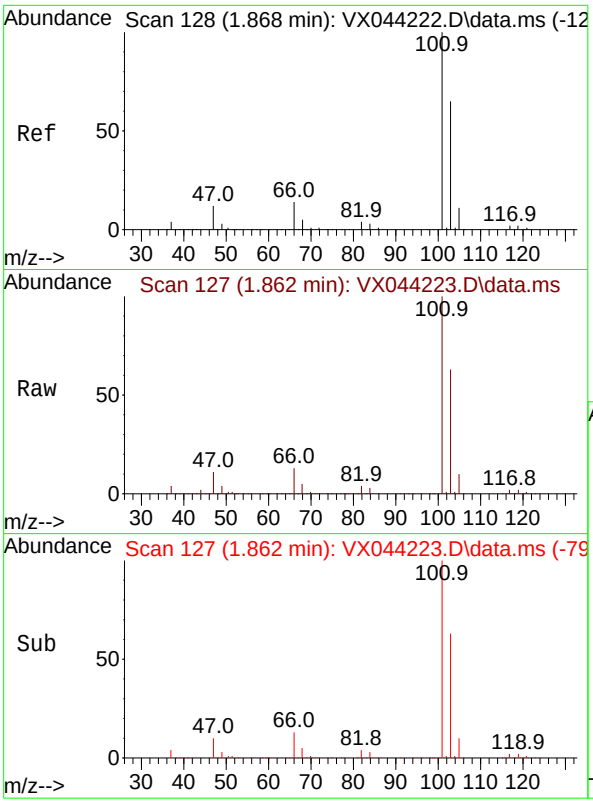


#6
Chloroethane
Concen: 88.074 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 64 Resp: 109912

Ion	Ratio	Lower	Upper
64	100		
66	30.5	26.6	39.8



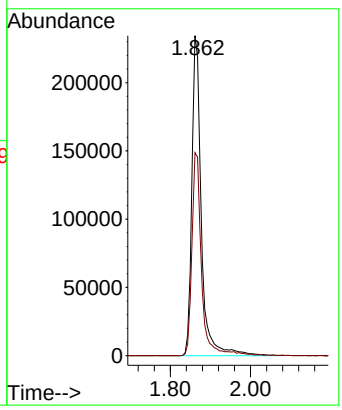


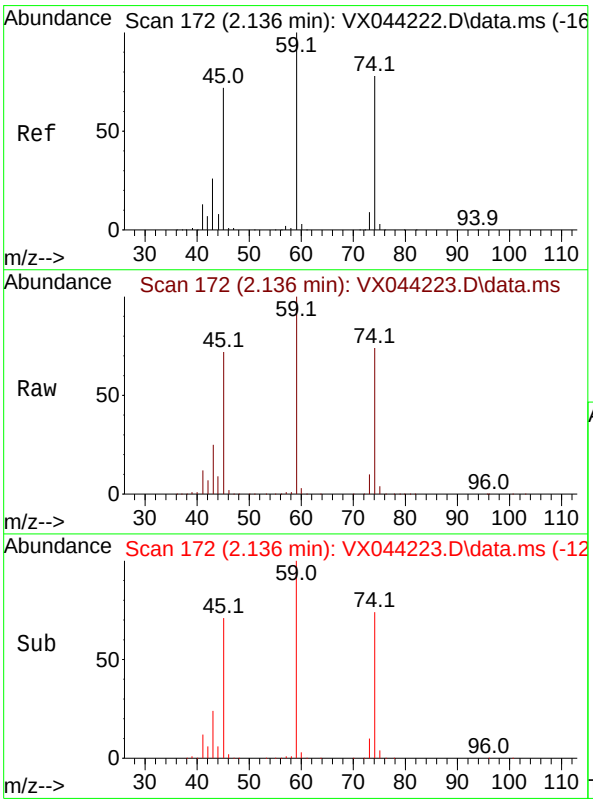
#7
Trichlorofluoromethane
Concen: 98.030 ug/l
RT: 1.862 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 384622

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8

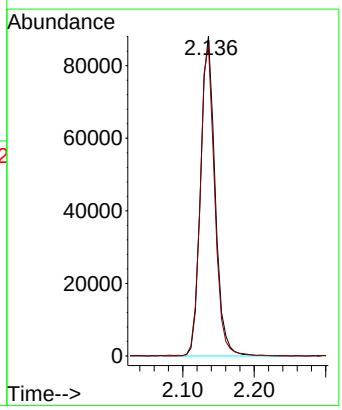


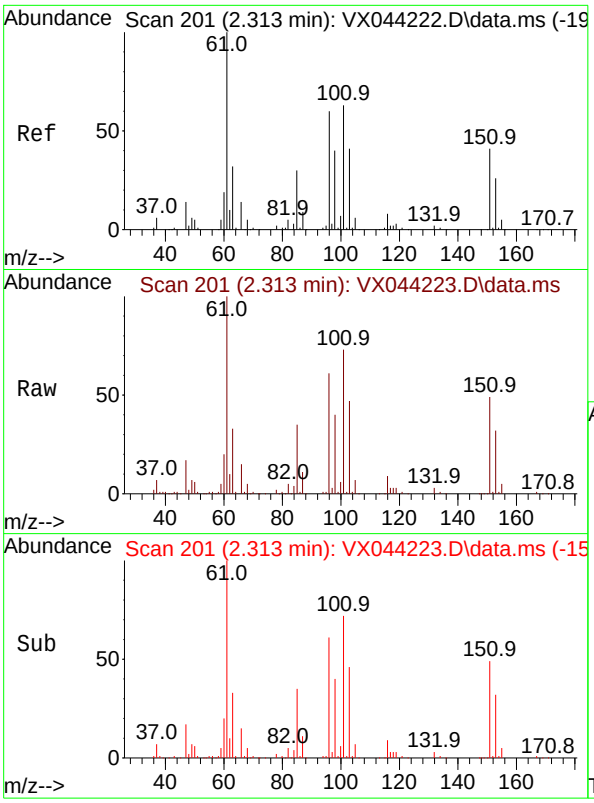


#8
Diethyl Ether
Concen: 92.618 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 74 Resp: 124039

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.4	145.0



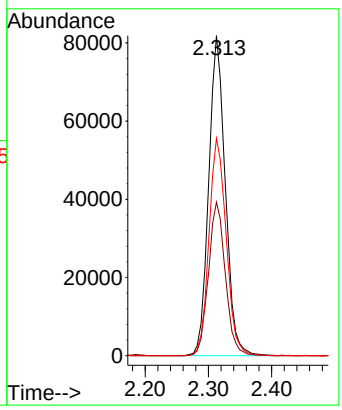


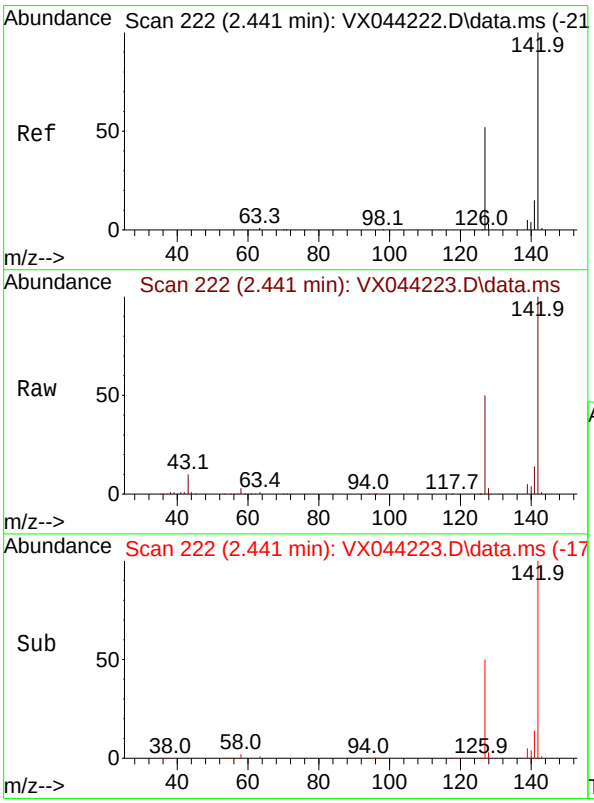
#9
1,1,2-Trichlorotrifluoroethane
Concen: 93.944 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 149151

Ion	Ratio	Lower	Upper
101	100		
85	48.9	38.5	57.7
151	70.5	55.8	83.6

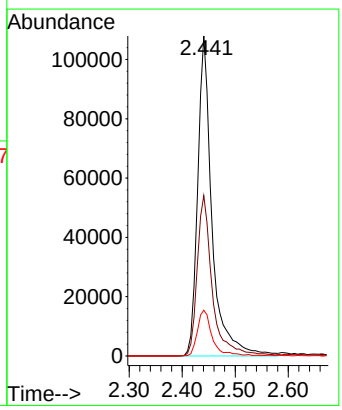


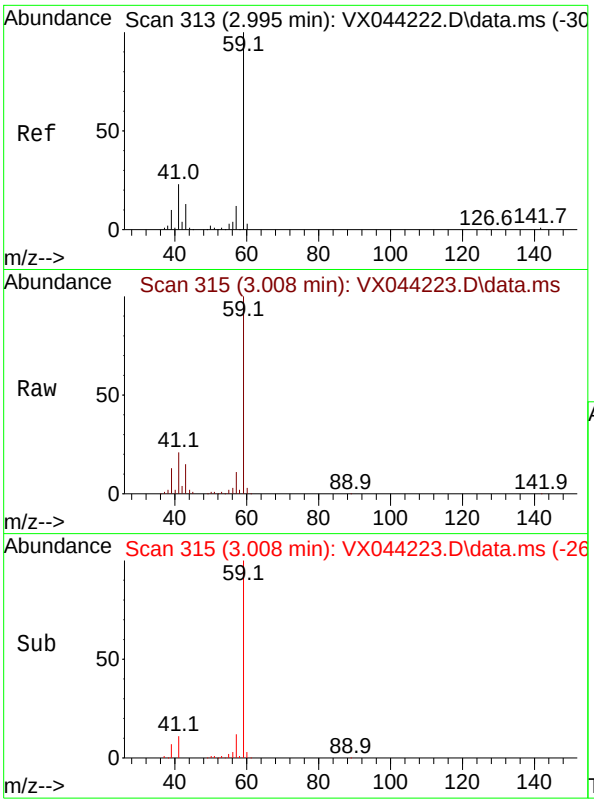


#10
Methyl Iodide
Concen: 97.275 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:142 Resp: 203545

Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.8	62.8
141	14.8	11.5	17.3



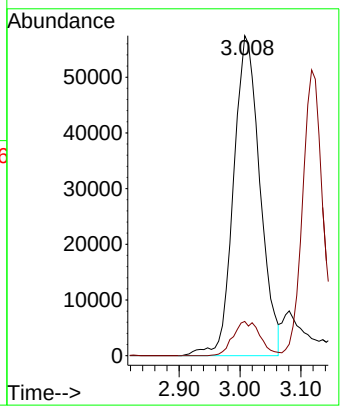


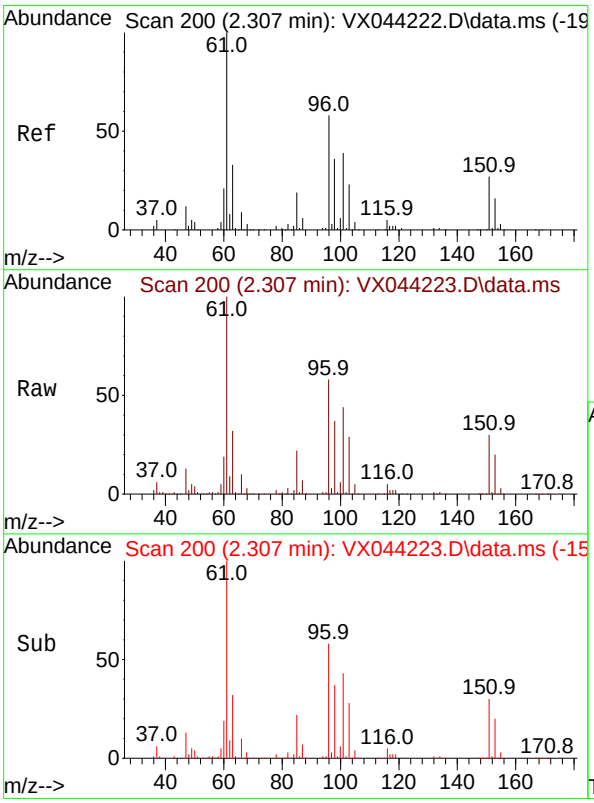
#11
Tert butyl alcohol
Concen: 539.406 ug/l
RT: 3.008 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 173139

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.8	13.2

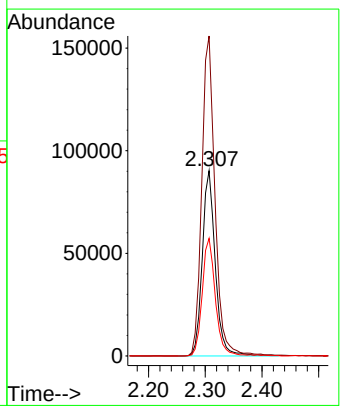


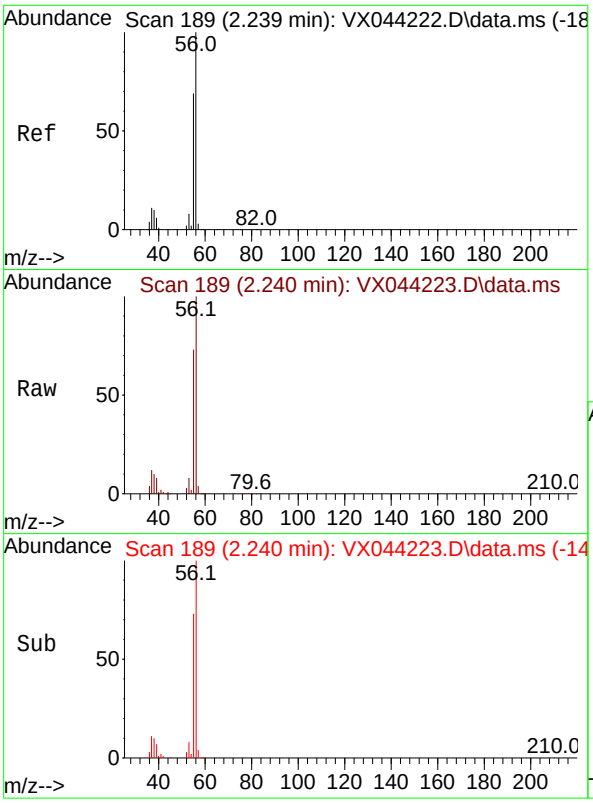


#12
1,1-Dichloroethene
Concen: 98.930 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 96 Resp: 144268

Ion	Ratio	Lower	Upper
96	100		
61	172.7	138.0	207.0
98	63.5	50.0	75.0



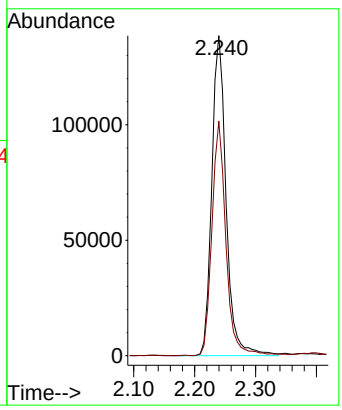


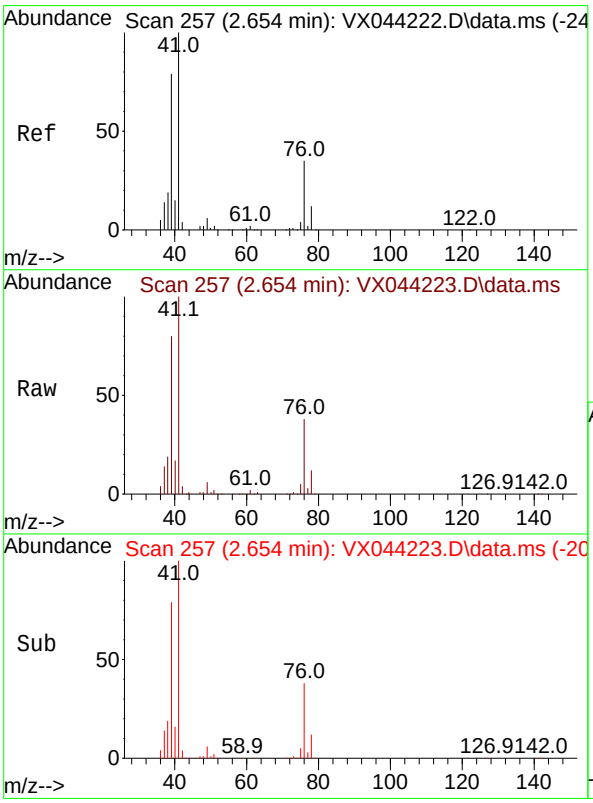
#13
Acrolein
Concen: 485.718 ug/l
RT: 2.240 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 226037

Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.6	84.8

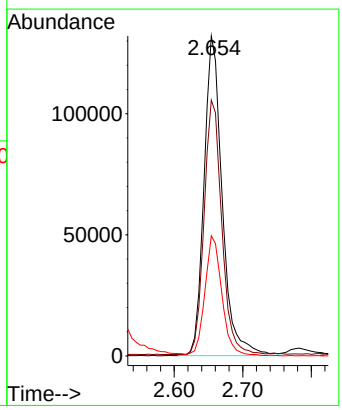


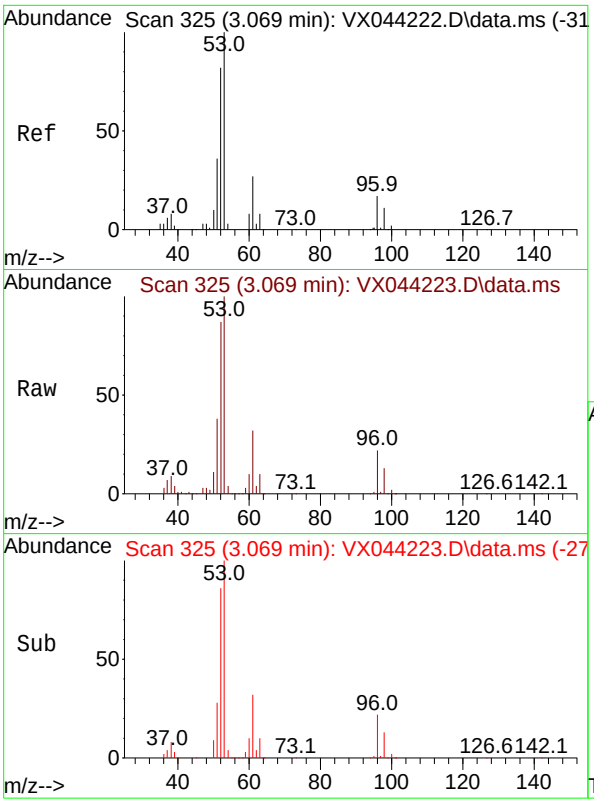


#14
Allyl chloride
Concen: 100.703 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 244602

Ion	Ratio	Lower	Upper
41	100		
39	77.0	61.9	92.9
76	34.7	27.4	41.2



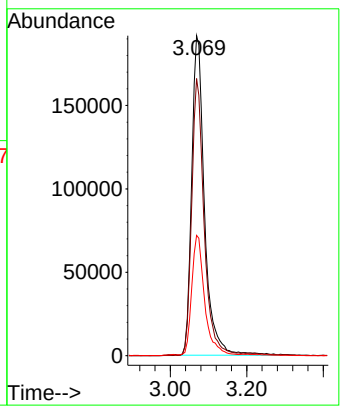


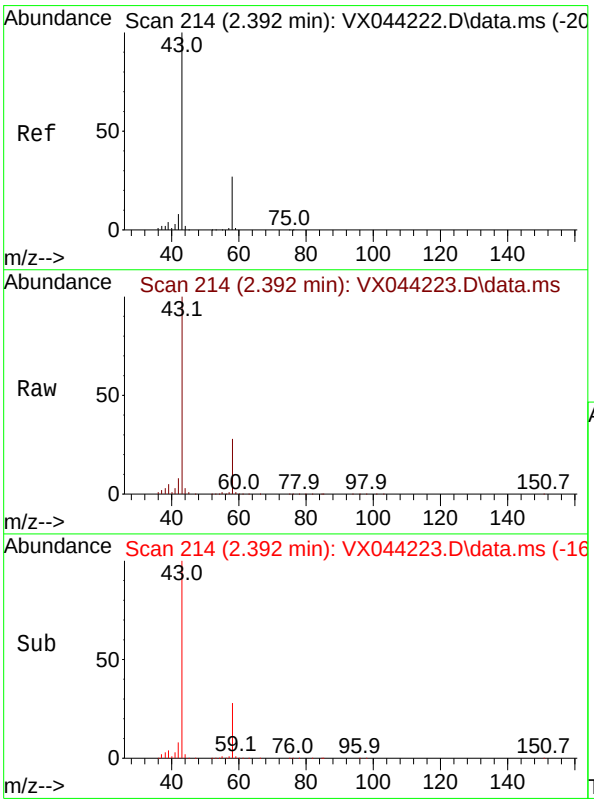
#15
Acrylonitrile
Concen: 501.661 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 446747

Ion	Ratio	Lower	Upper
53	100		
52	84.0	67.4	101.0
51	37.0	30.3	45.5

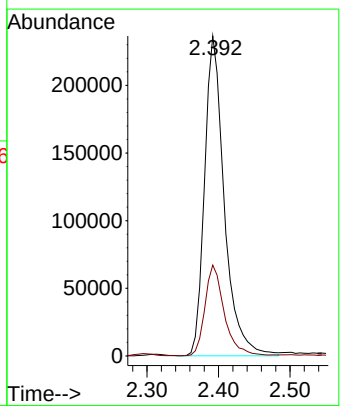


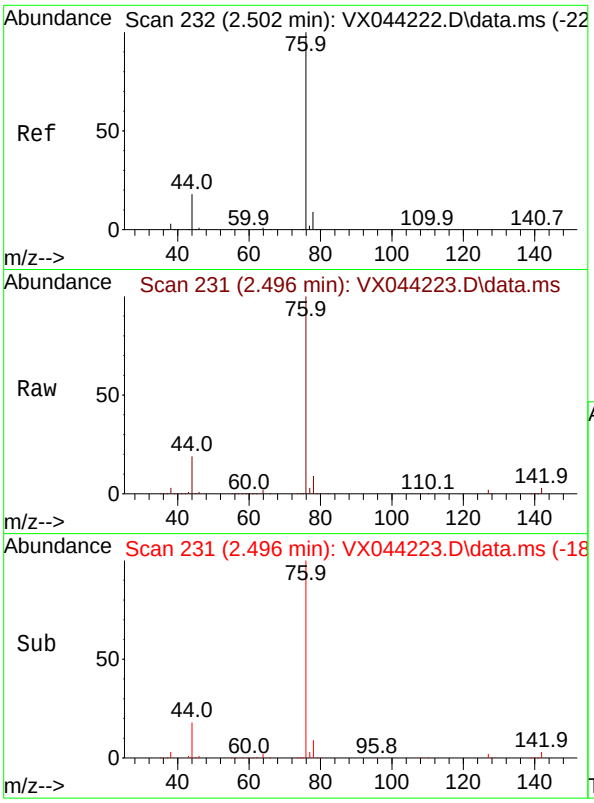


#16
Acetone
Concen: 487.065 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 452955

Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.6	32.4



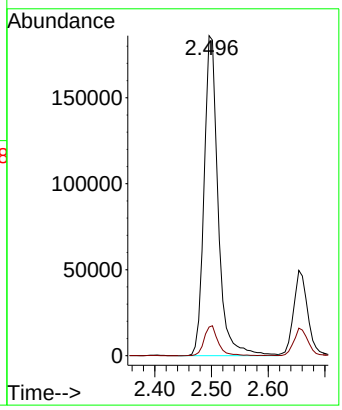


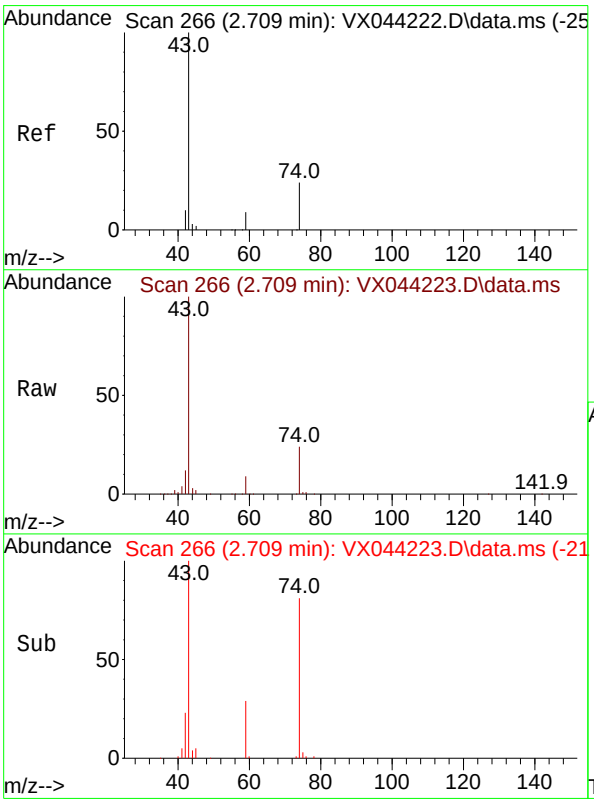
#17
Carbon Disulfide
Concen: 115.453 ug/l
RT: 2.496 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 320036

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

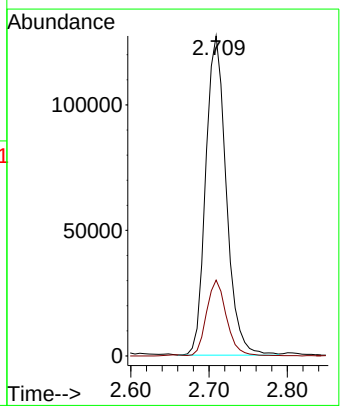


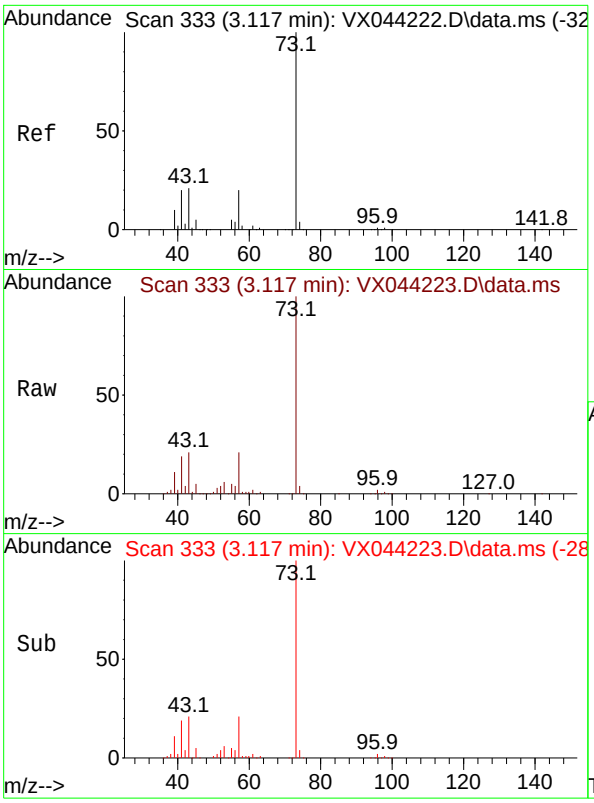


#18
Methyl Acetate
Concen: 96.338 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 230998

Ion	Ratio	Lower	Upper
43	100		
74	23.3	17.7	26.5



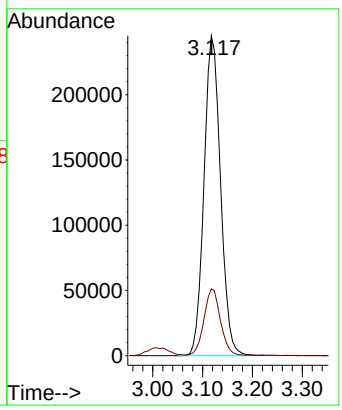


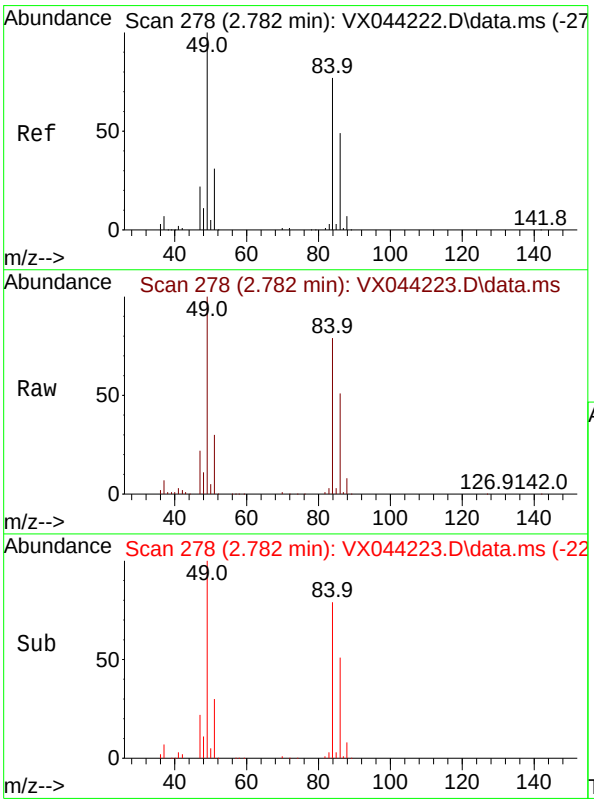
#19
Methyl tert-butyl Ether
Concen: 99.205 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 564545

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4

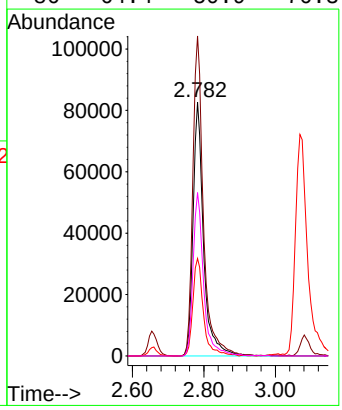


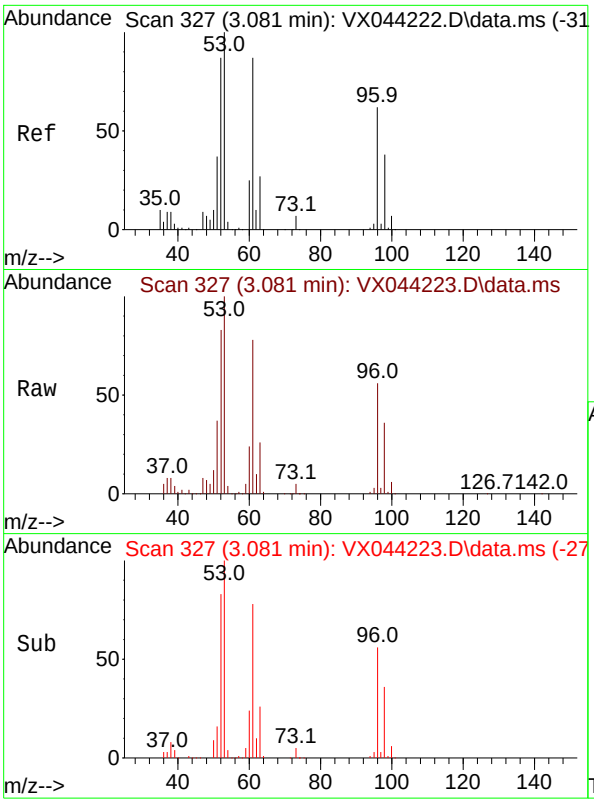


#20
Methylene Chloride
Concen: 96.466 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 84 Resp: 168498

Ion	Ratio	Lower	Upper
84	100		
49	126.1	104.2	156.4
51	38.4	32.2	48.4
86	64.4	50.9	76.3



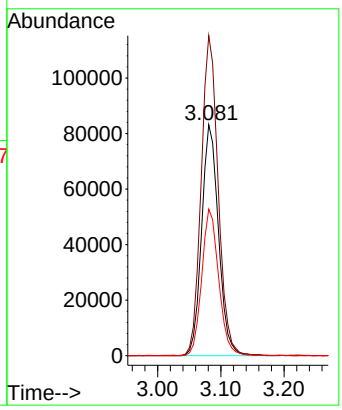


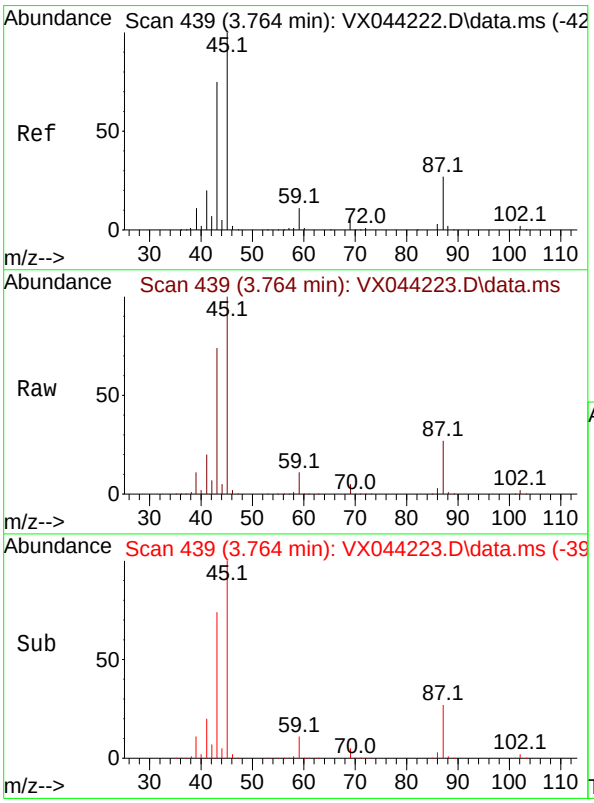
#21
trans-1,2-Dichloroethene
Concen: 99.880 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 154797

Ion	Ratio	Lower	Upper
96	100		
61	138.4	112.0	168.0
98	63.5	48.8	73.2

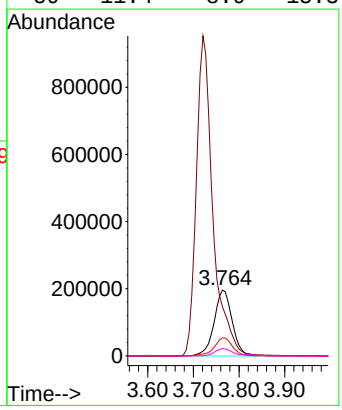


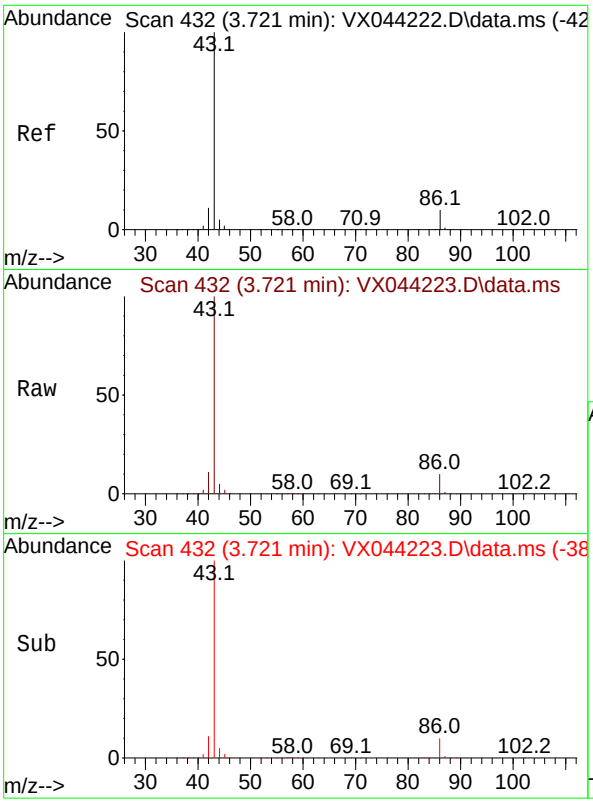


#22
Diisopropyl ether
Concen: 98.498 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 45 Resp: 538742

Ion	Ratio	Lower	Upper
45	100		
43	74.2	60.2	90.2
87	27.4	21.2	31.8
59	11.4	8.9	13.3



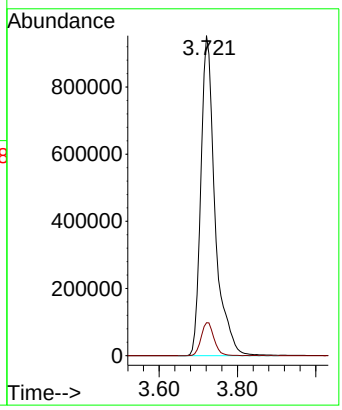


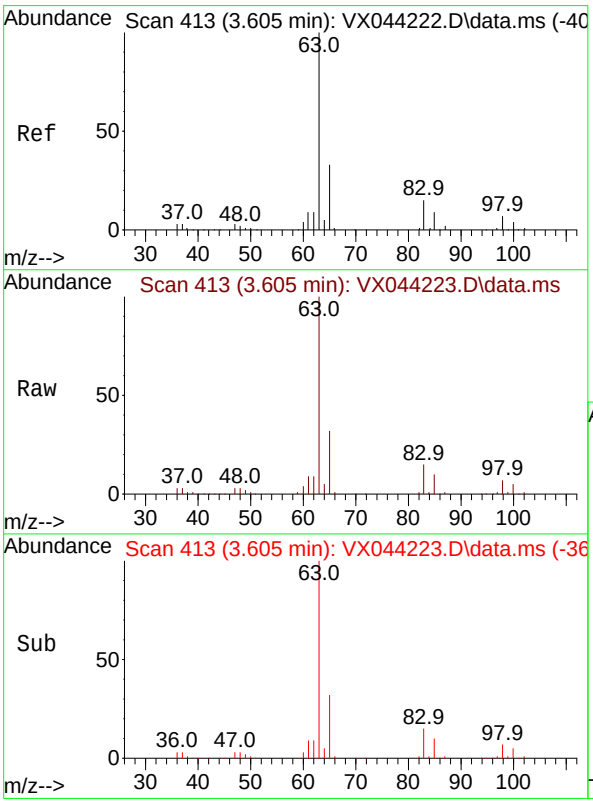
#23
Vinyl Acetate
Concen: 538.801 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2395923

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.2

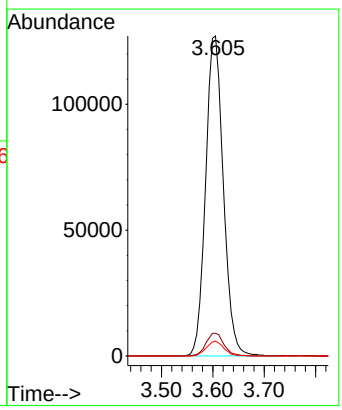


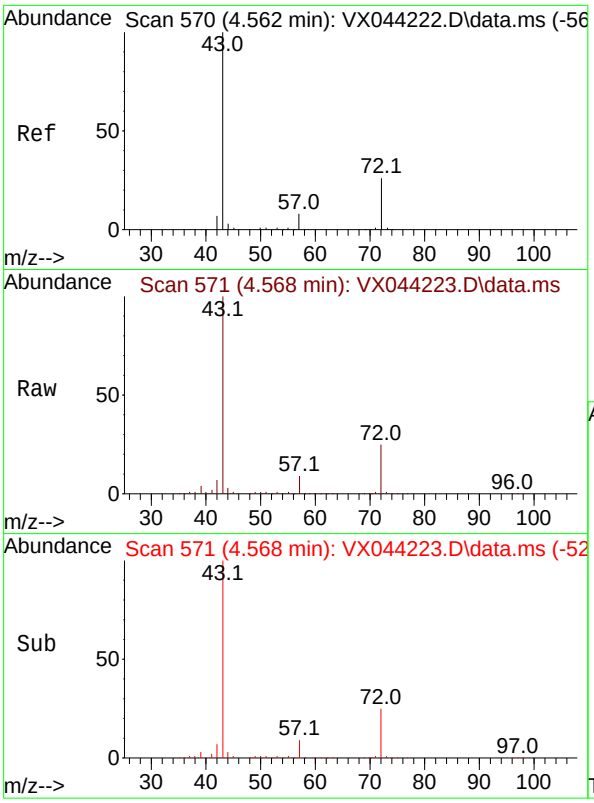


#24
1,1-Dichloroethane
Concen: 99.915 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 304626

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.6	10.8
100	4.6	2.1	6.3



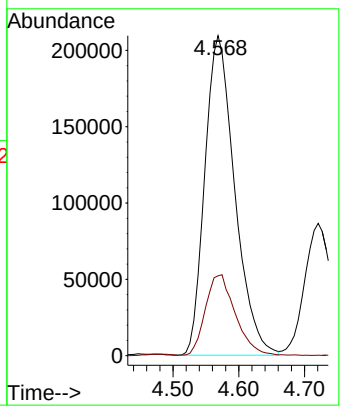


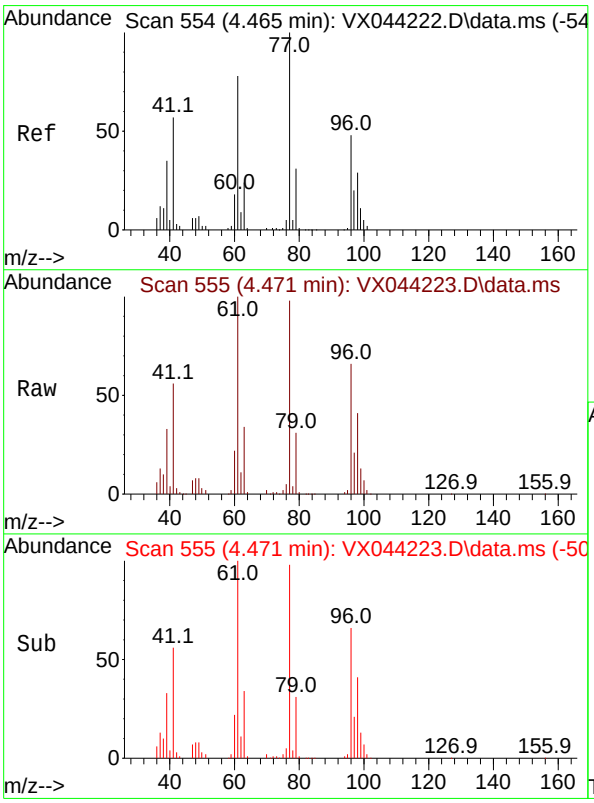
#25
2-Butanone
Concen: 501.306 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 662768

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4

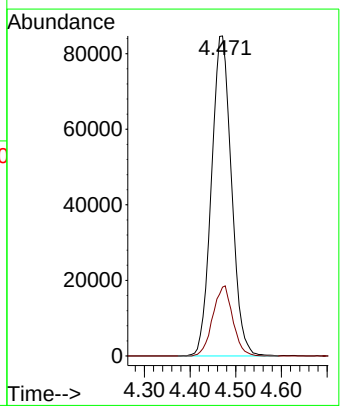


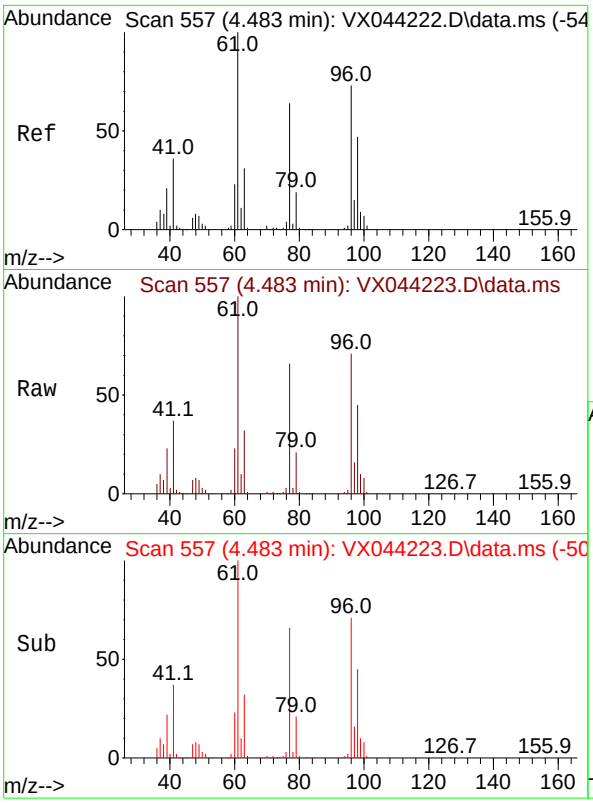


#26
2,2-Dichloropropane
Concen: 104.201 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 77 Resp: 258092

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.7	32.1



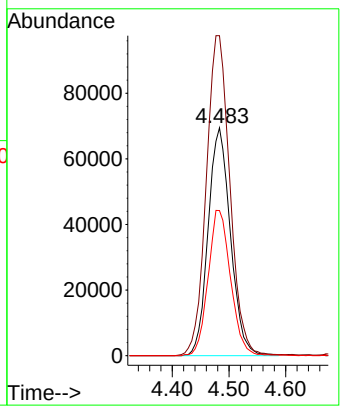


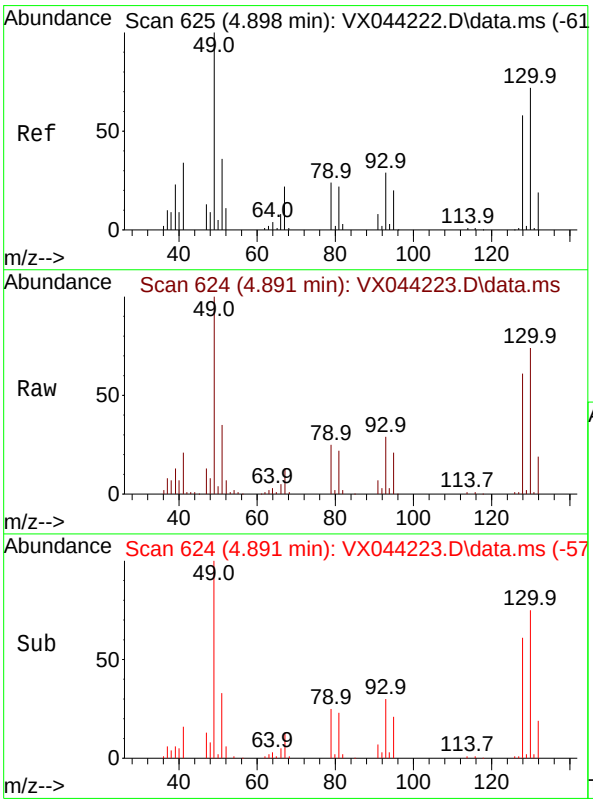
#27
cis-1,2-Dichloroethene
Concen: 96.593 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 190127

Ion	Ratio	Lower	Upper
96	100		
61	148.5	0.0	299.0
98	64.2	0.0	129.0

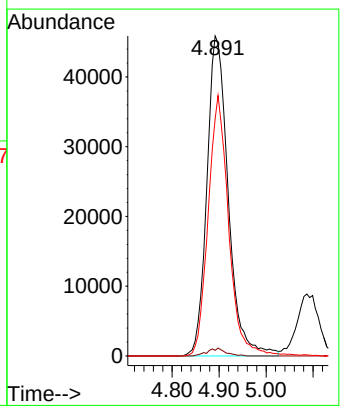


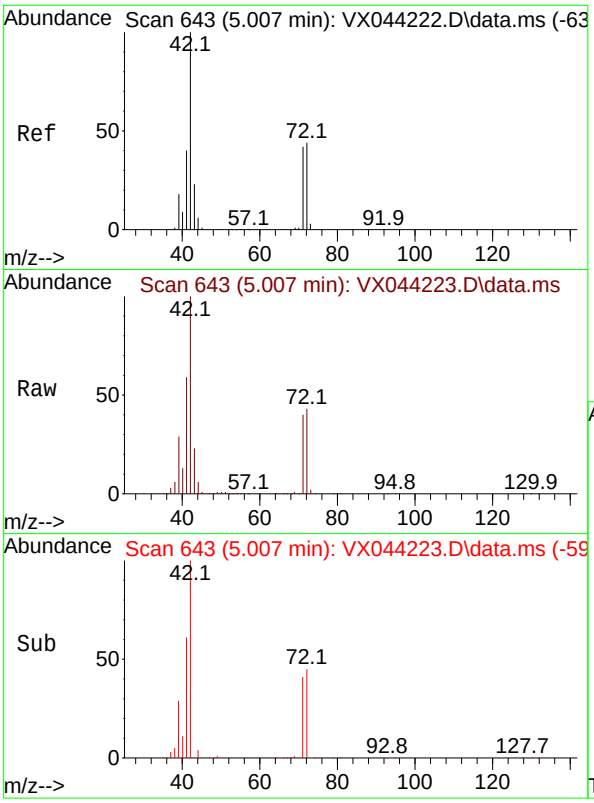


#28
Bromochloromethane
Concen: 96.842 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 49 Resp: 144783

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	78.2	62.1	93.1



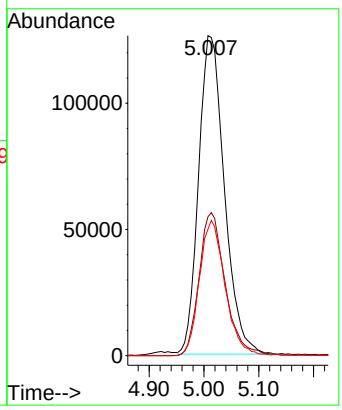


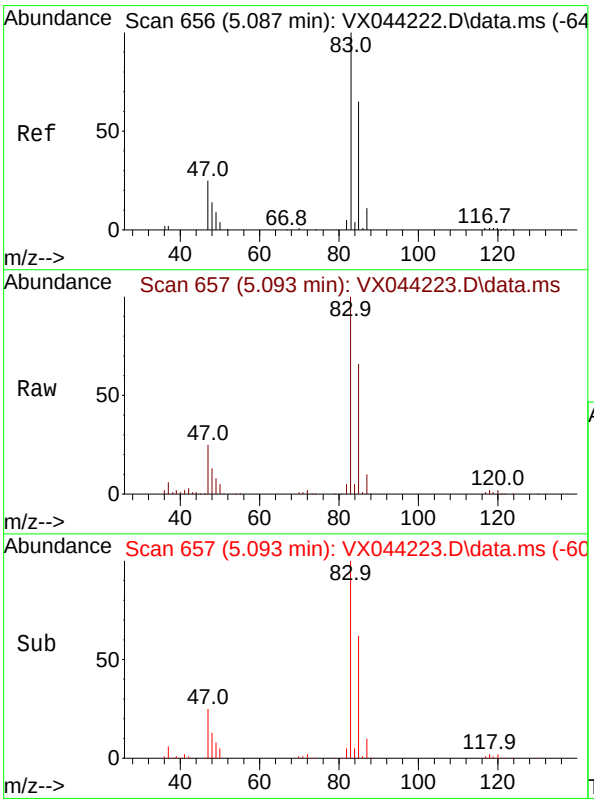
#29
Tetrahydrofuran
Concen: 486.290 ug/l
RT: 5.007 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 412666

Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.0	55.6
71	42.1	33.6	50.4

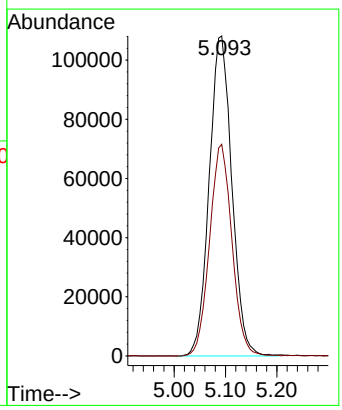


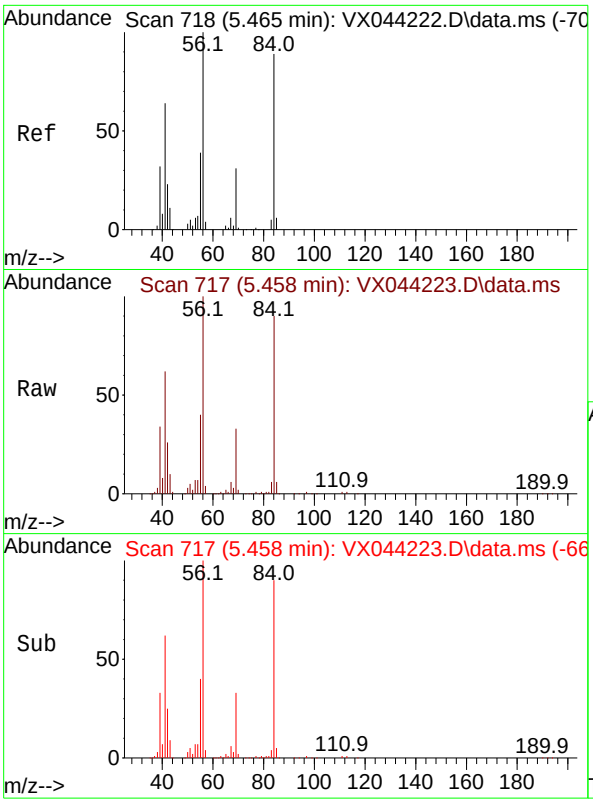


#30
Chloroform
Concen: 96.642 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 83 Resp: 331047

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.6	77.4



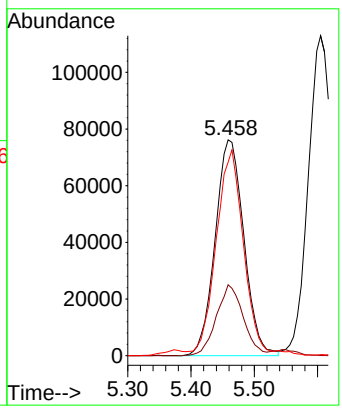


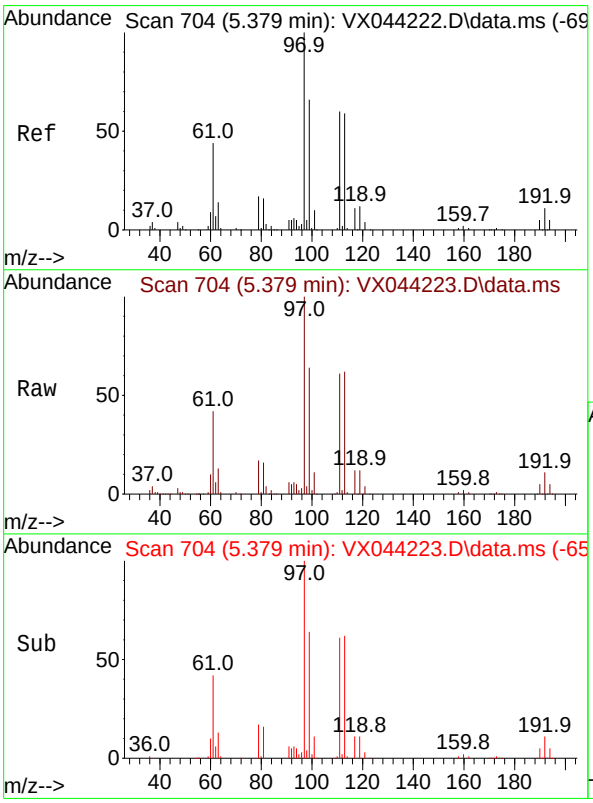
#31
Cyclohexane
Concen: 97.433 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 239879

Ion	Ratio	Lower	Upper
56	100		
69	32.8	24.7	37.1
84	87.3	71.0	106.6

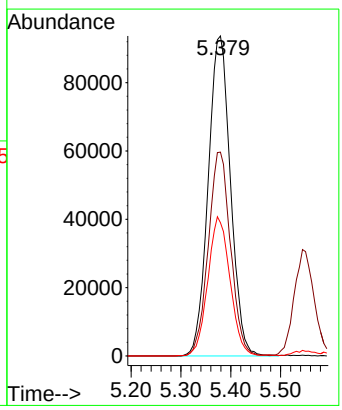


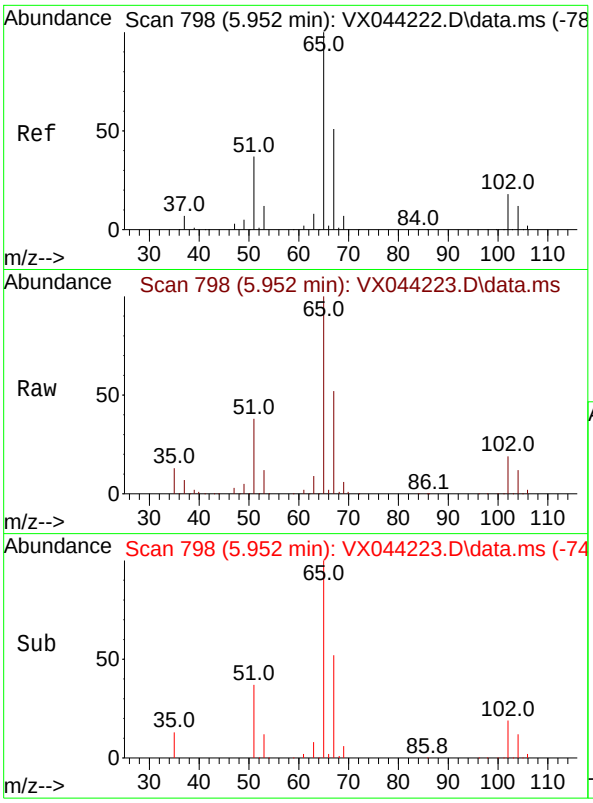


#32
1,1,1-Trichloroethane
Concen: 102.363 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 97 Resp: 291065

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.8	76.2
61	43.3	35.2	52.8



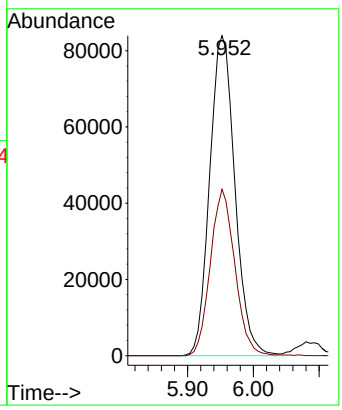


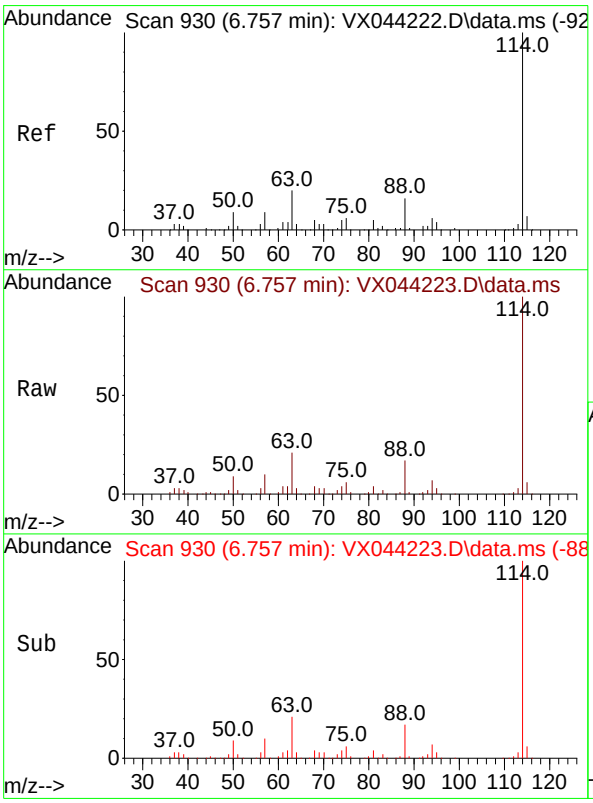
#33
1,2-Dichloroethane-d4
Concen: 98.326 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 224292

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6

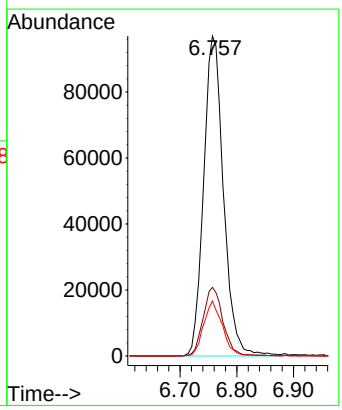


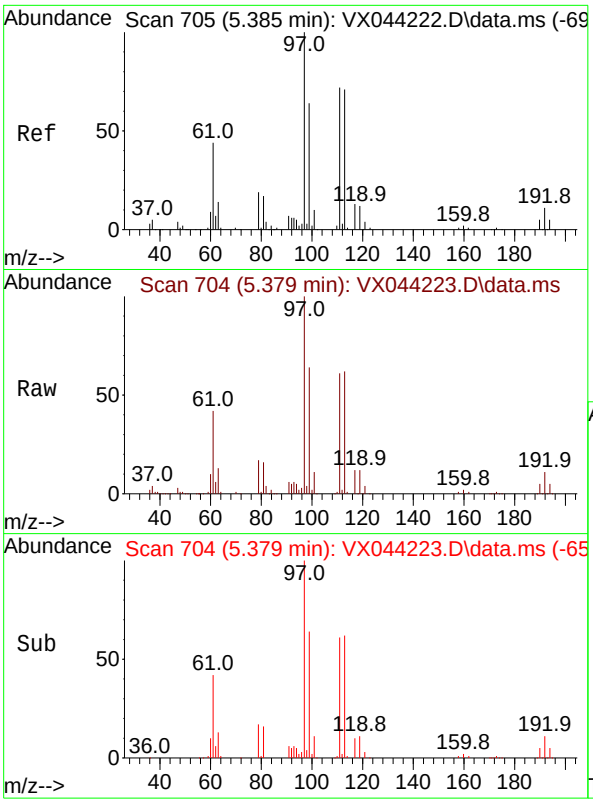


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:114 Resp: 235738

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	40.6
88	17.2	0.0	31.8



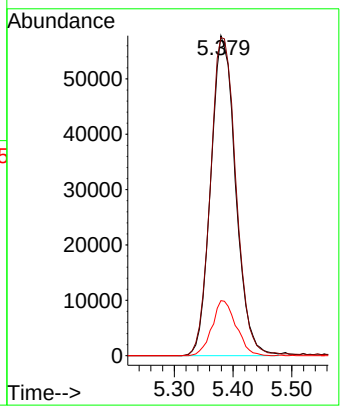


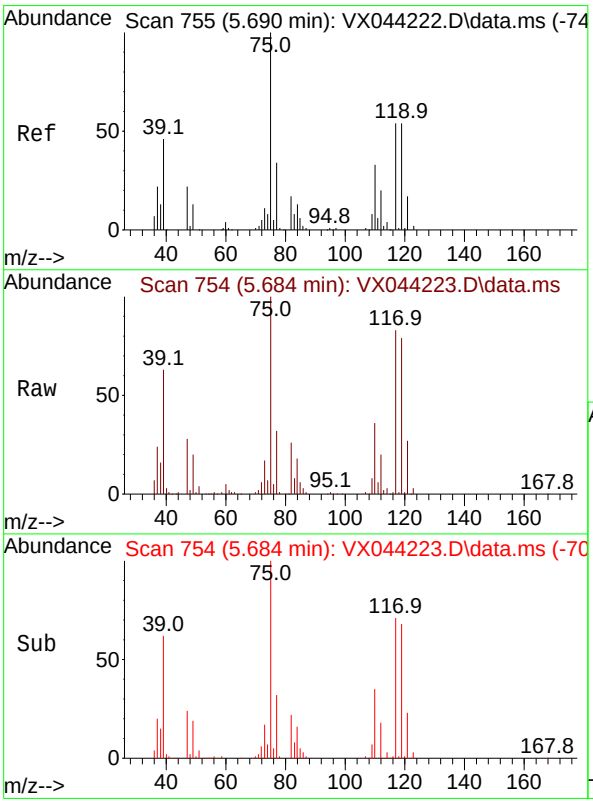
#35
Dibromofluoromethane
Concen: 103.866 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 169582

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.4	120.6
192	16.7	13.3	19.9

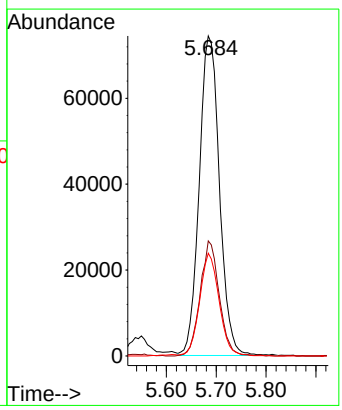


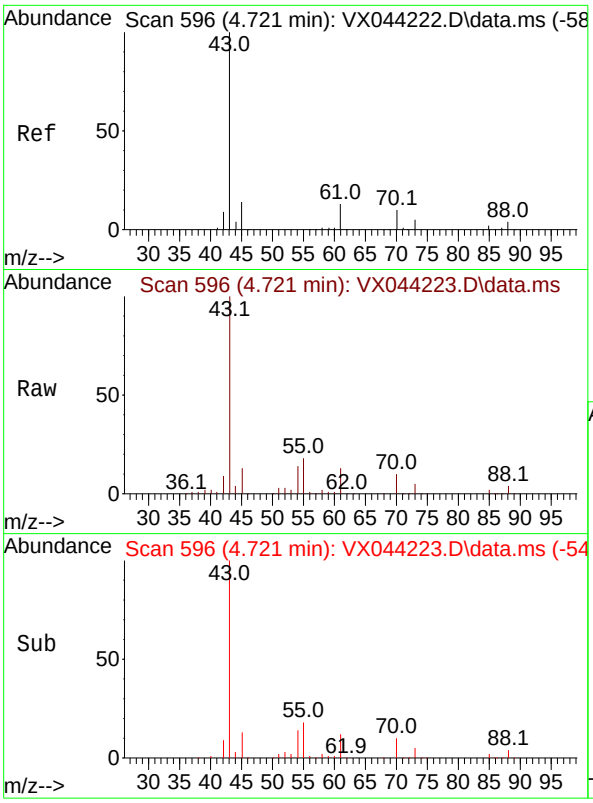


#36
1,1-Dichloropropene
Concen: 99.376 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 209732

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.3	51.7
77	30.6	25.4	38.0



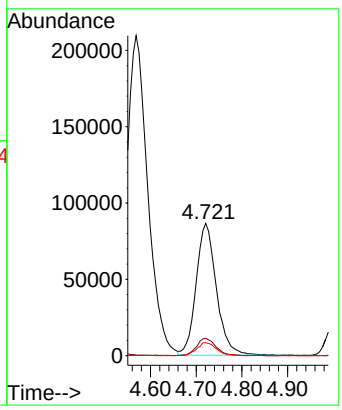


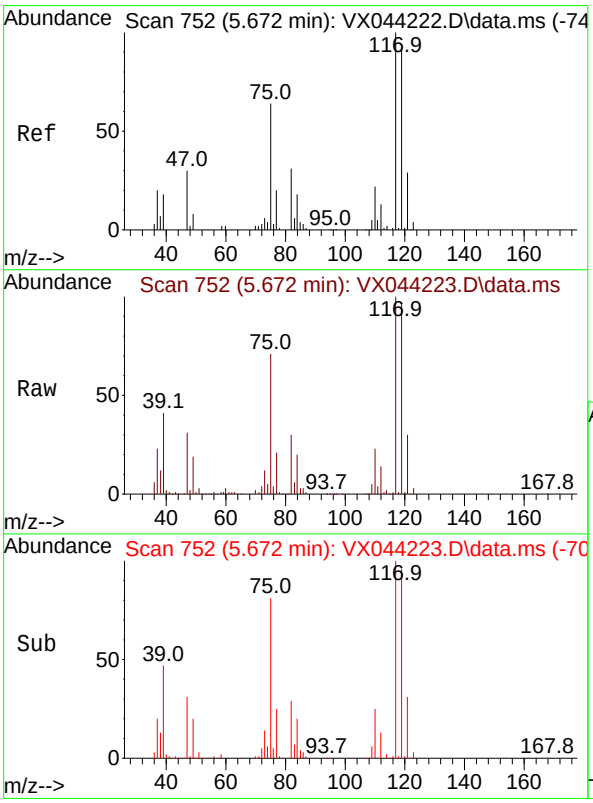
#37
Ethyl Acetate
Concen: 102.079 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 266307

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.8	14.8
70	9.5	7.7	11.5

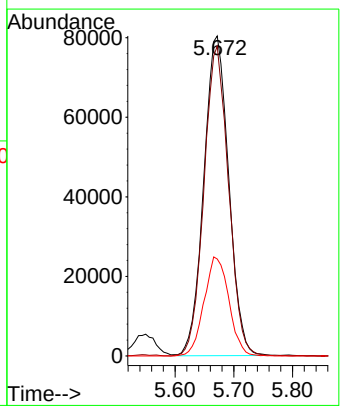


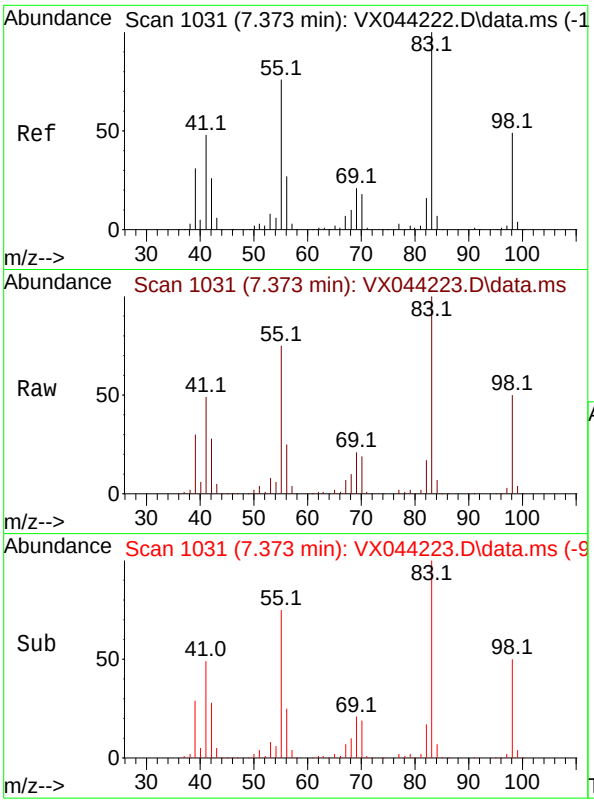


#38
Carbon Tetrachloride
Concen: 104.249 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 236869

Ion	Ratio	Lower	Upper
117	100		
119	96.7	74.2	111.4
121	30.4	23.0	34.6



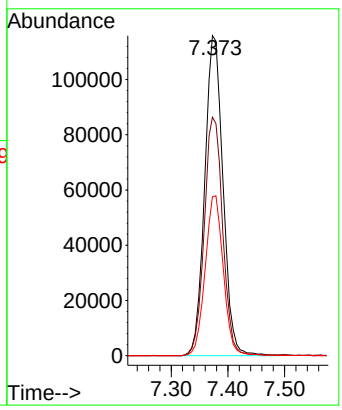


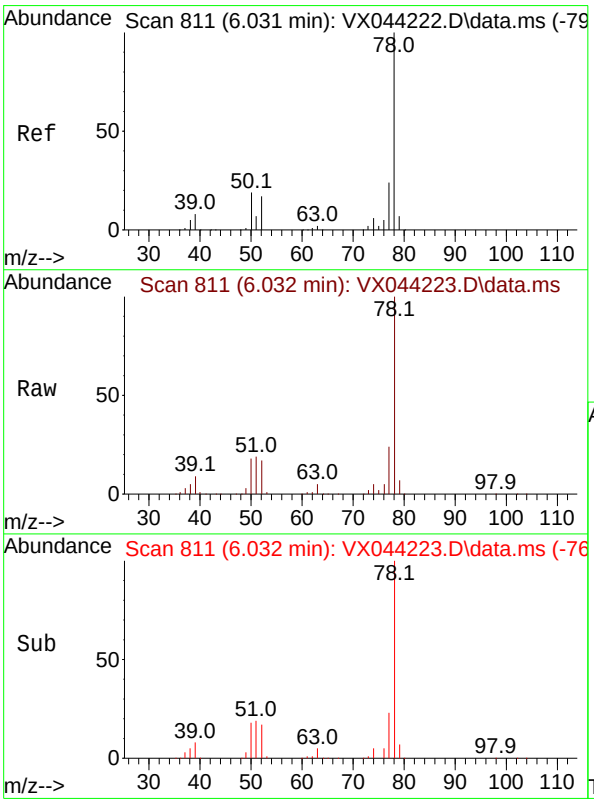
#39
Methylcyclohexane
Concen: 102.800 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 259368

Ion	Ratio	Lower	Upper
83	100		
55	74.5	60.7	91.1
98	49.6	38.9	58.3

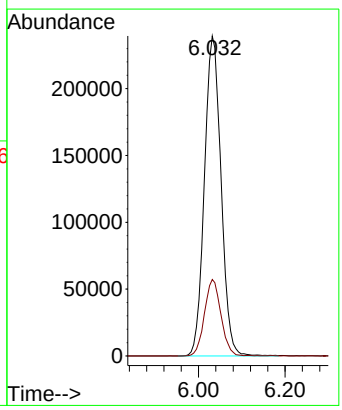


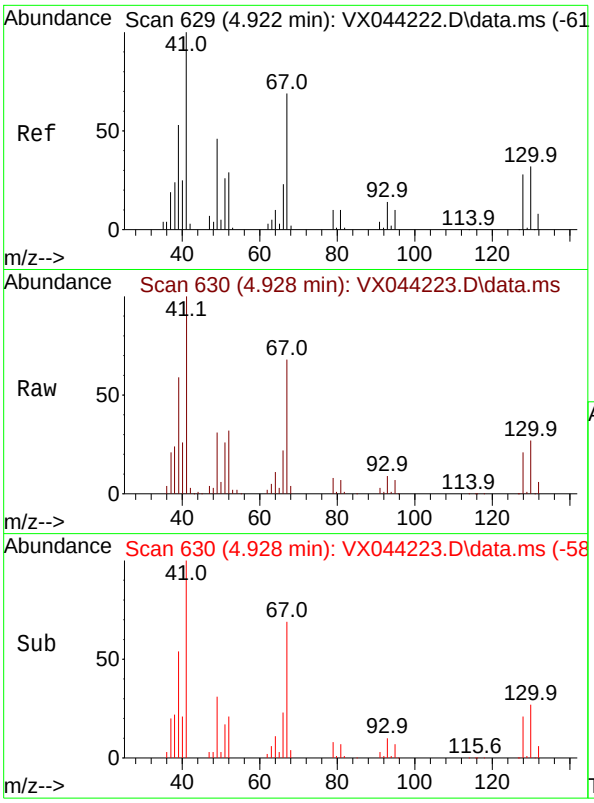


#40
Benzene
Concen: 99.575 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 78 Resp: 638055

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9



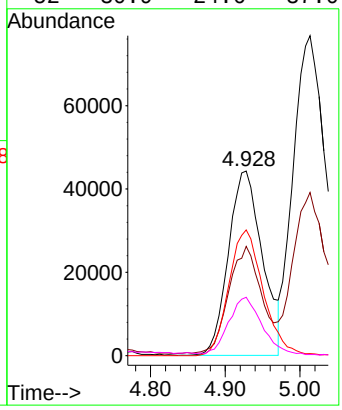


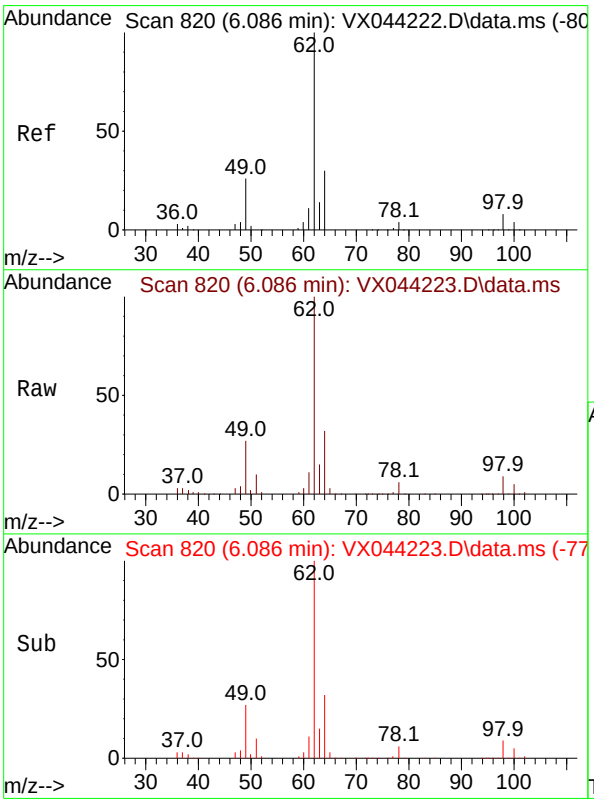
#41
Methacrylonitrile
Concen: 101.332 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 140375

Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.2	66.4
67	69.1	57.2	85.8
52	30.9	24.6	37.0

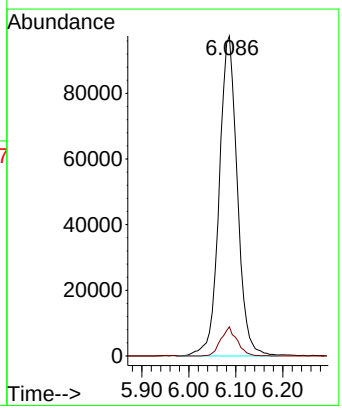


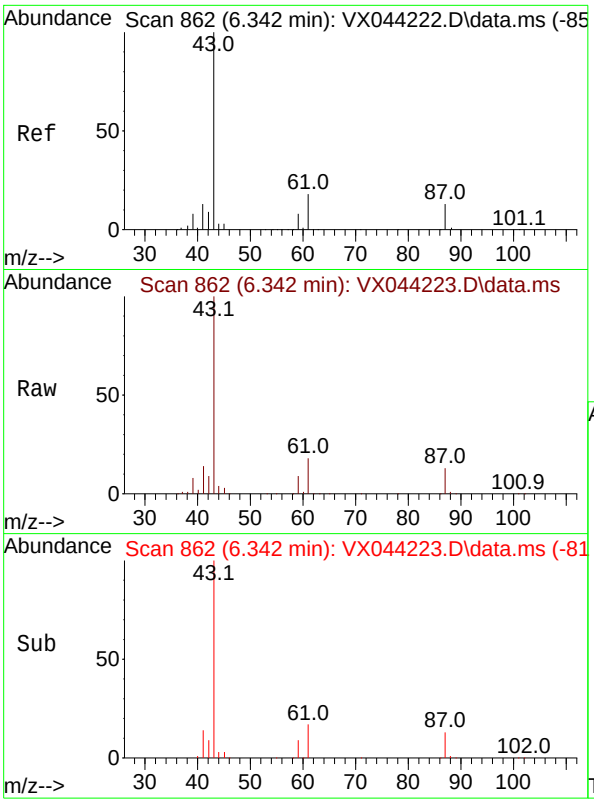


#42
1,2-Dichloroethane
Concen: 99.255 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 62 Resp: 261991

Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	15.8



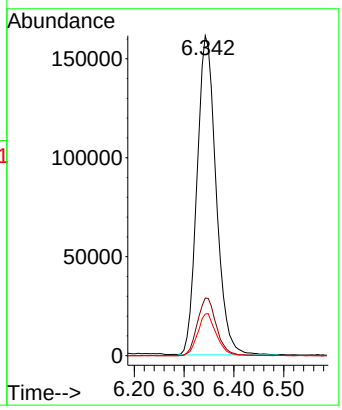


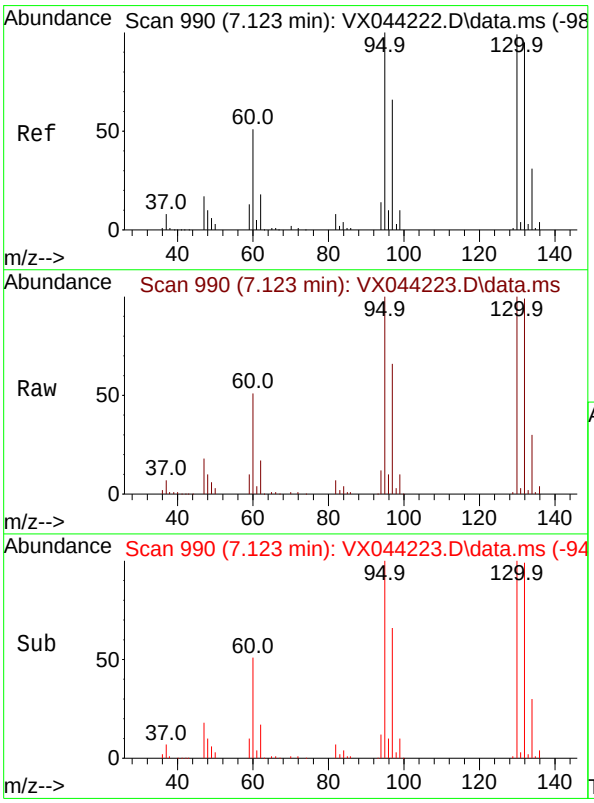
#43
Isopropyl Acetate
Concen: 104.939 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 427893

Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2

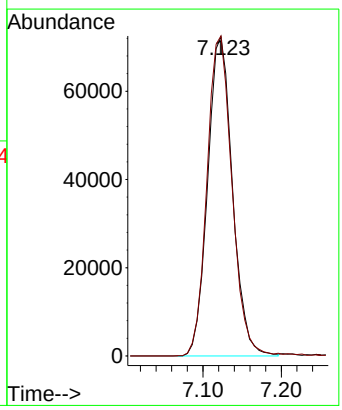


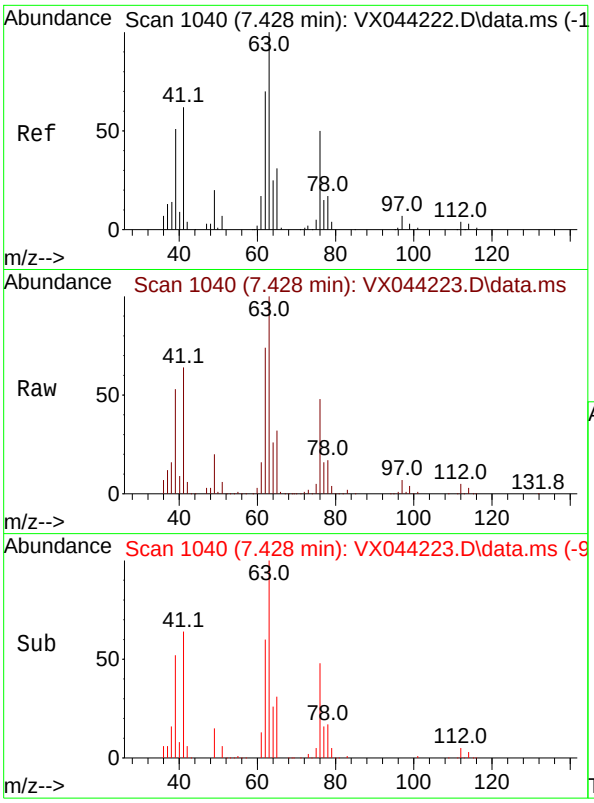


#44
Trichloroethene
Concen: 99.497 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:130 Resp: 158990

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	201.4



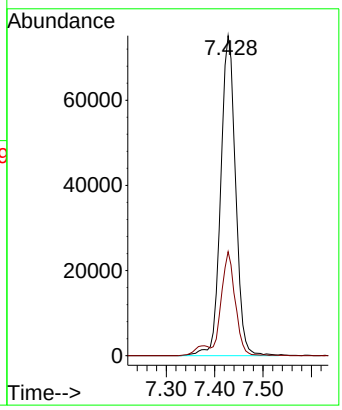


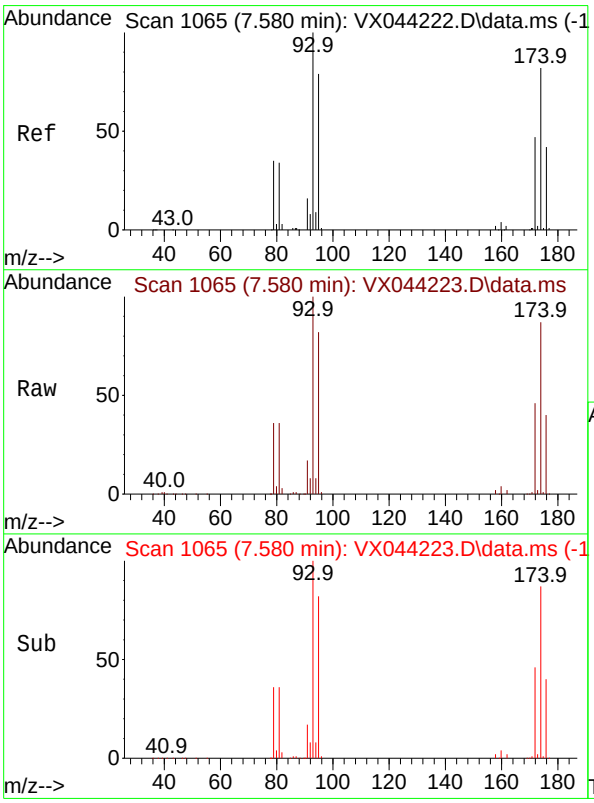
#45
1,2-Dichloropropane
Concen: 98.293 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 160913

Ion	Ratio	Lower	Upper
63	100		
65	32.5	24.6	37.0

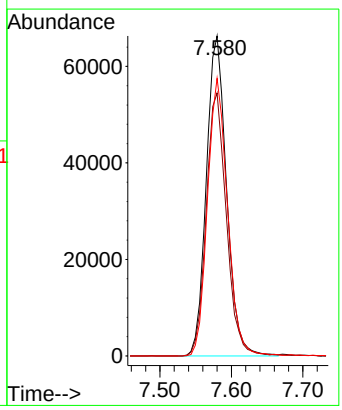


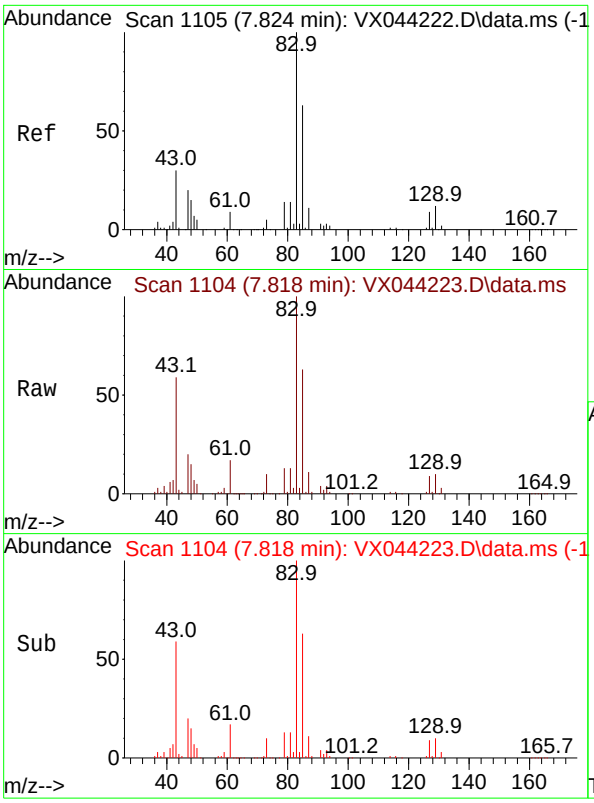


#46
Dibromomethane
Concen: 102.607 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 93 Resp: 130316

Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.4	98.2
174	86.1	67.9	101.9



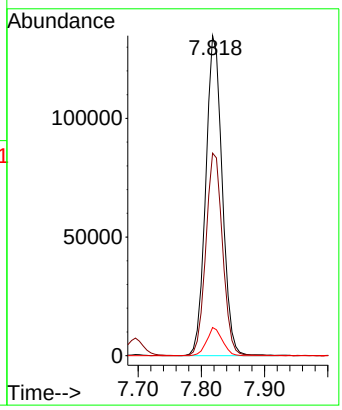


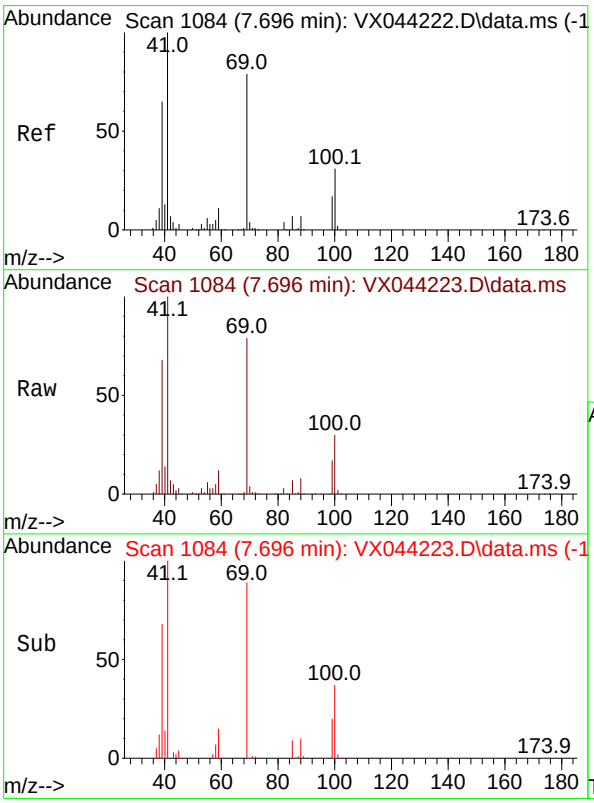
#47
Bromodichloromethane
Concen: 111.423 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 244401

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.8	7.3	10.9

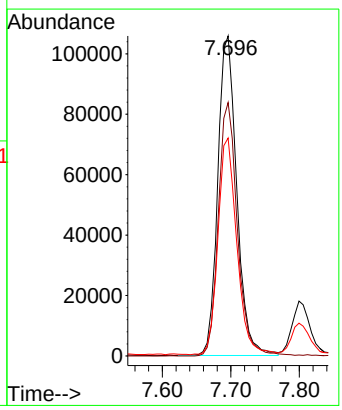


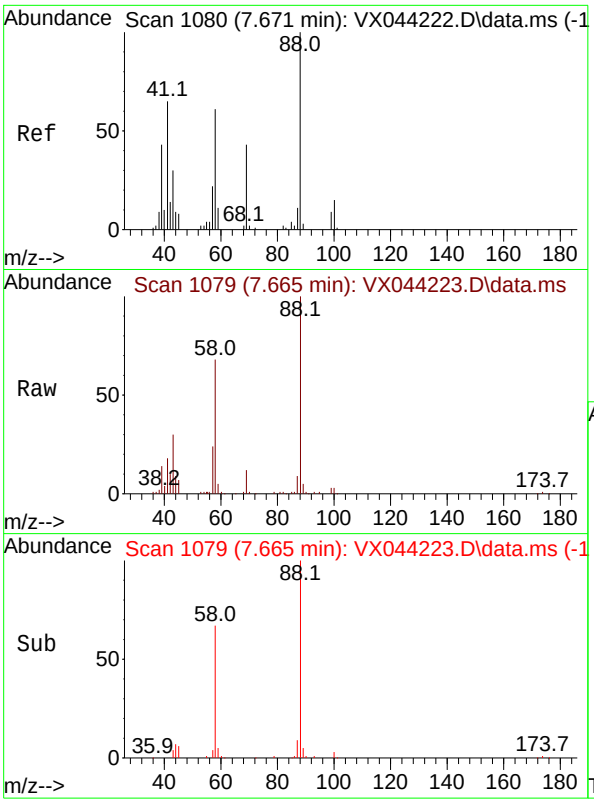


#48
Methyl methacrylate
Concen: 102.618 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 41 Resp: 203116

Ion	Ratio	Lower	Upper
41	100		
69	79.5	62.4	93.6
39	67.4	53.3	79.9



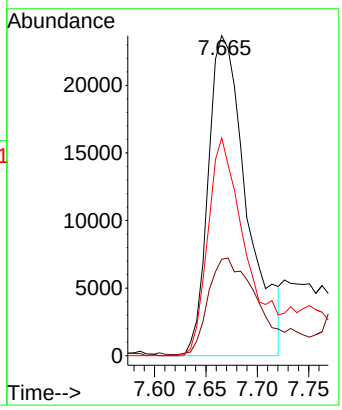


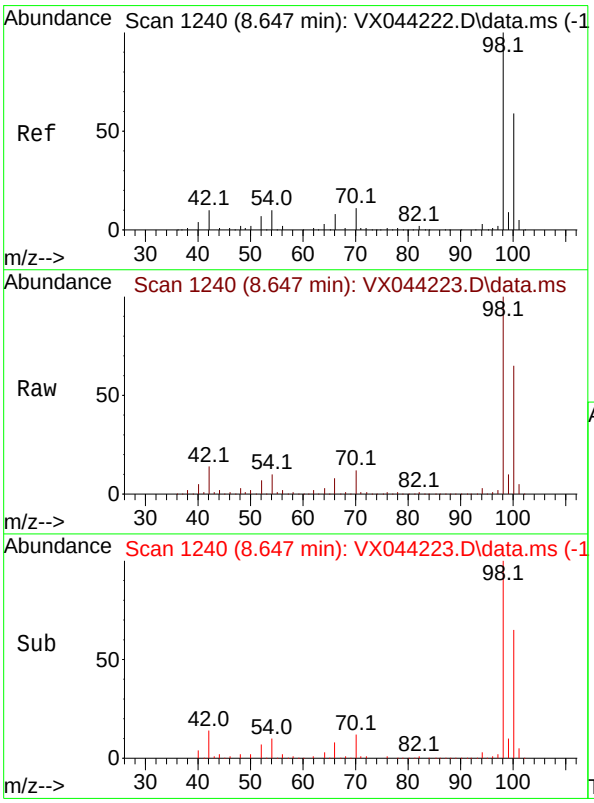
#49
1,4-Dioxane
Concen: 1830.521 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 61921

Ion	Ratio	Lower	Upper
88	100		
43	41.4	27.1	40.7#
58	68.6	41.0	61.4#

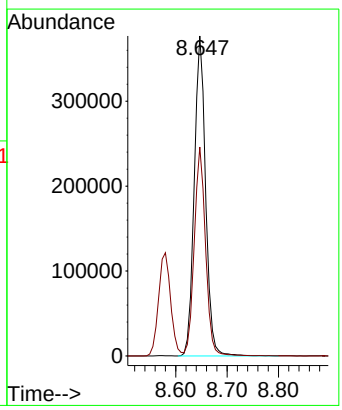


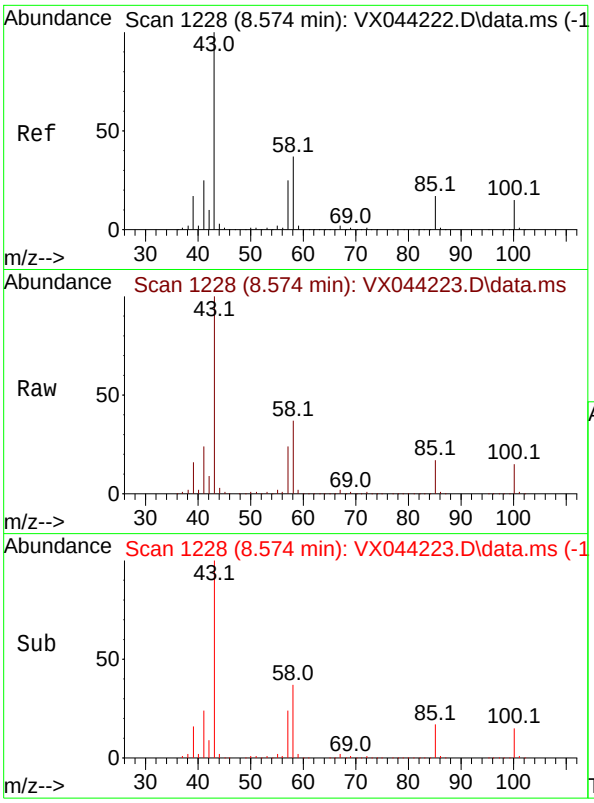


#50
Toluene-d8
Concen: 105.201 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 98 Resp: 579477

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.5	77.3



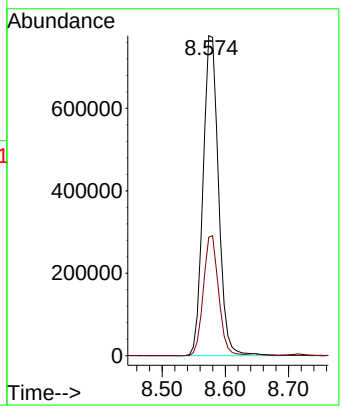


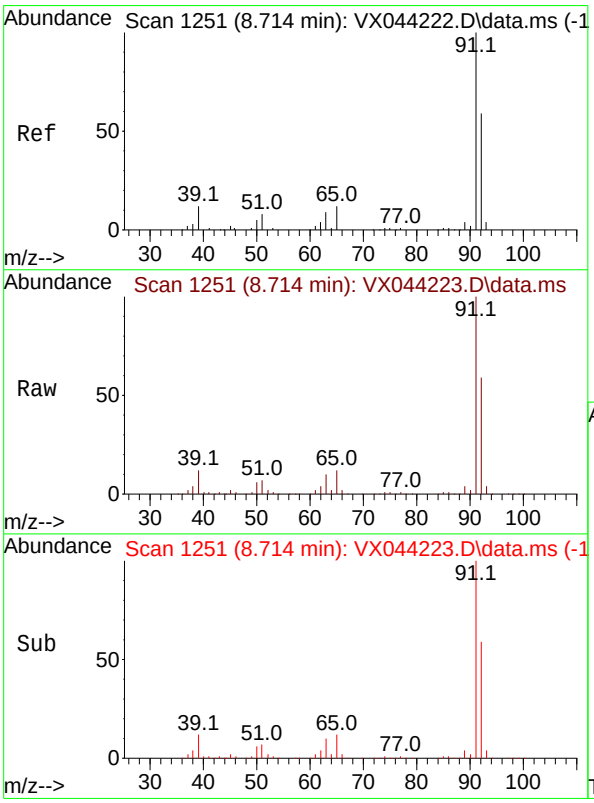
#51
4-Methyl-2-Pentanone
Concen: 504.496 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1322678

Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0

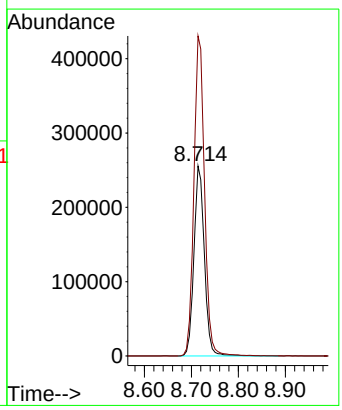


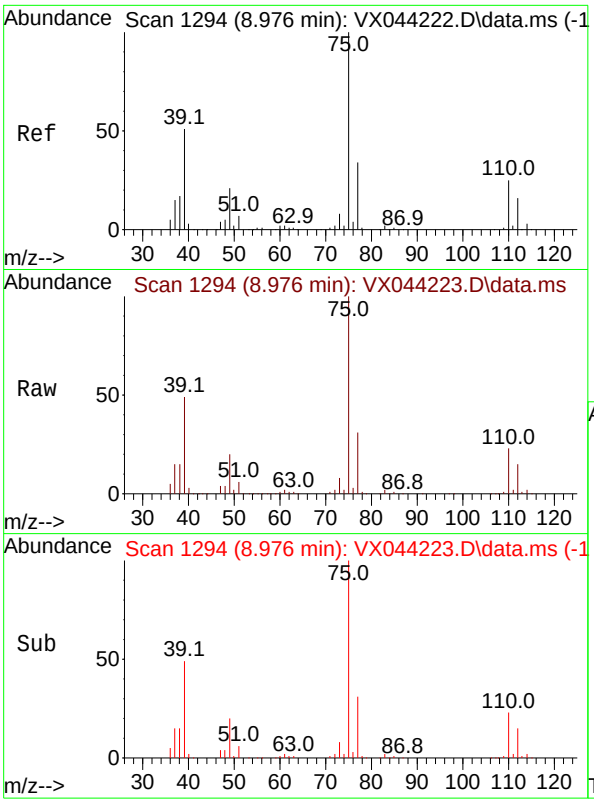


#52
Toluene
Concen: 98.506 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 92 Resp: 396383

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.0	205.6



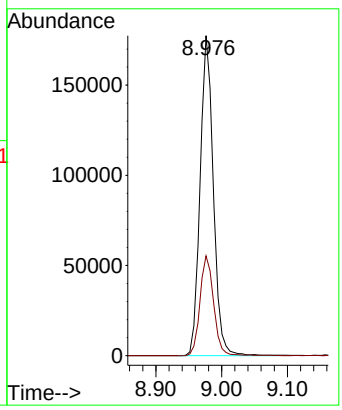


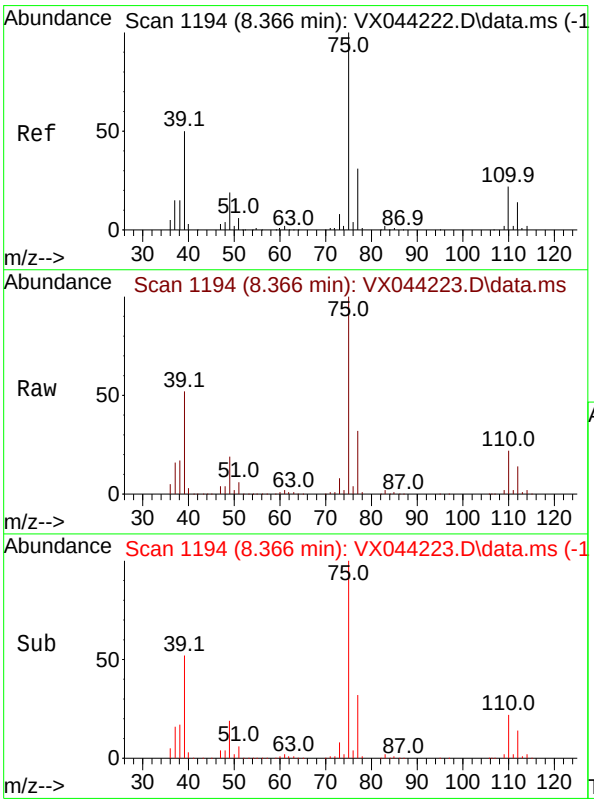
#53
t-1,3-Dichloropropene
Concen: 99.321 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 248092

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8

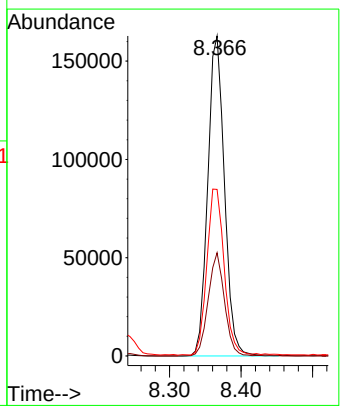


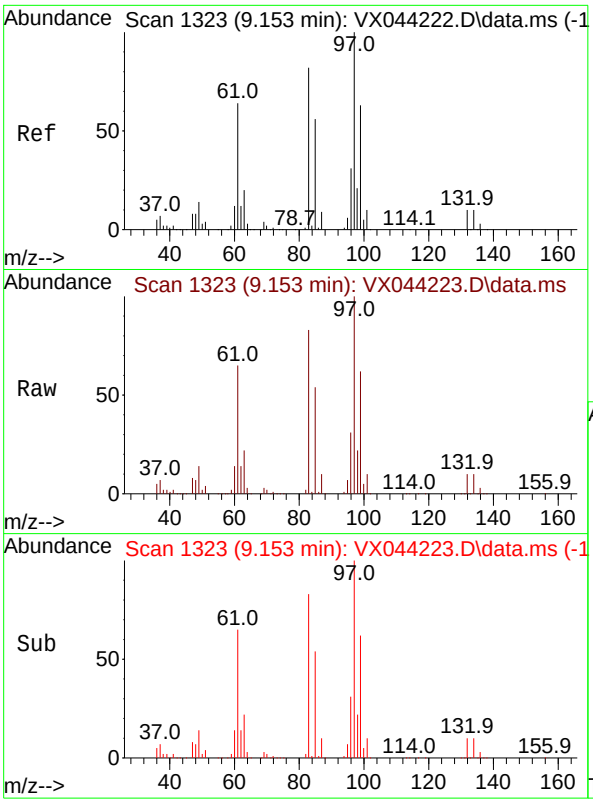


#54
cis-1,3-Dichloropropene
Concen: 110.127 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 263014

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	51.8	40.3	60.5



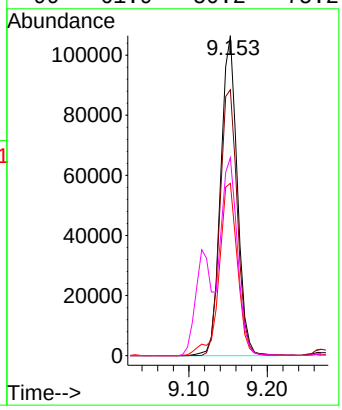


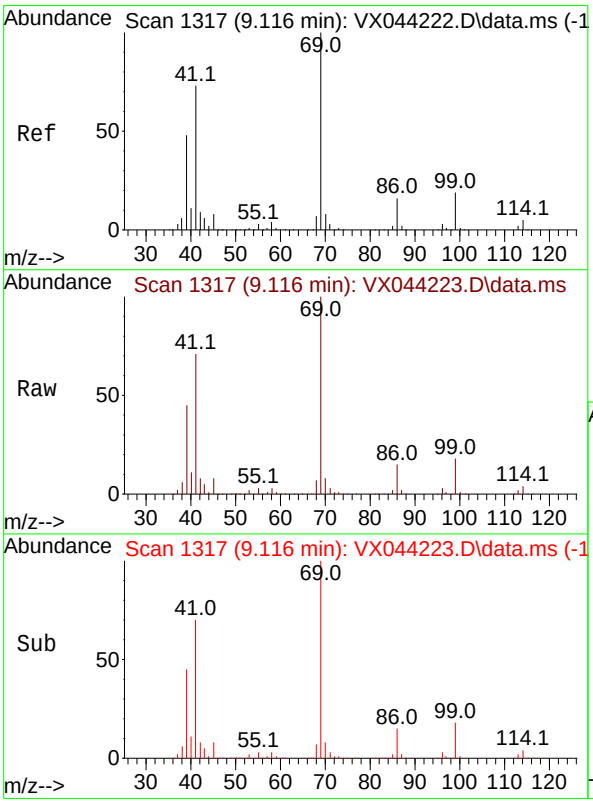
#55
1,1,2-Trichloroethane
Concen: 98.441 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 157366

Ion	Ratio	Lower	Upper
97	100		
83	83.1	65.3	97.9
85	53.8	44.6	67.0
99	61.9	50.2	75.2

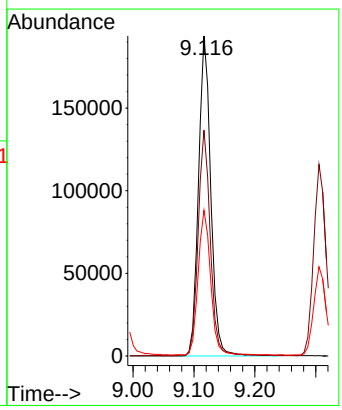


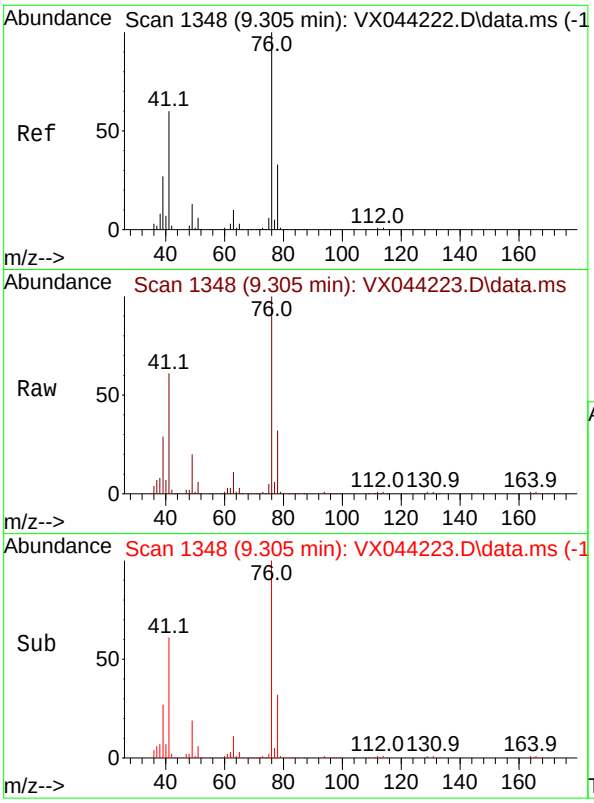


#56
Ethyl methacrylate
Concen: 107.442 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 69 Resp: 271146

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.1	37.4	56.0



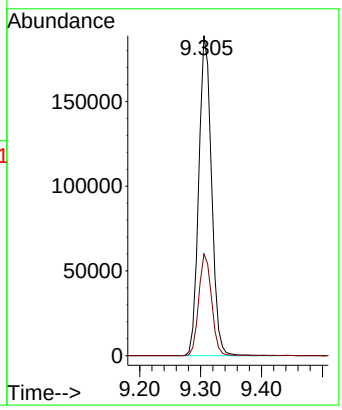


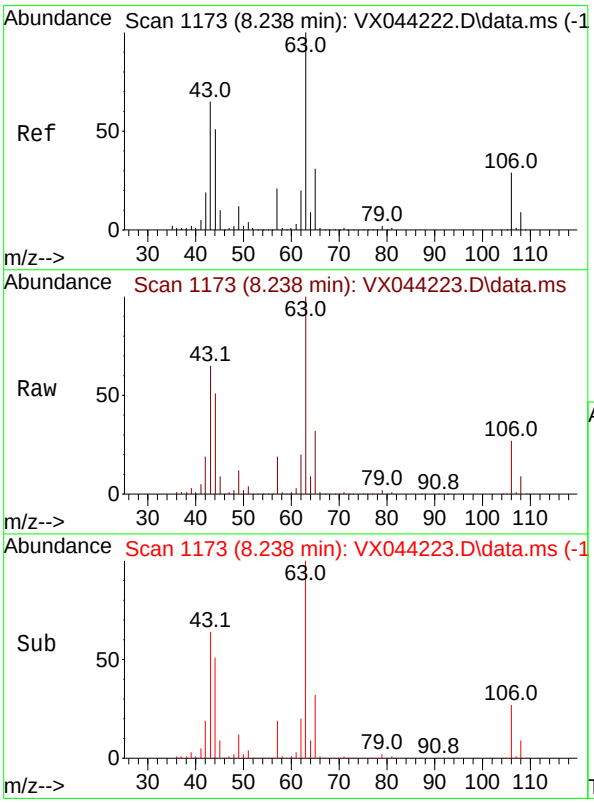
#57
1,3-Dichloropropane
Concen: 98.704 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 274642

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.5	39.7

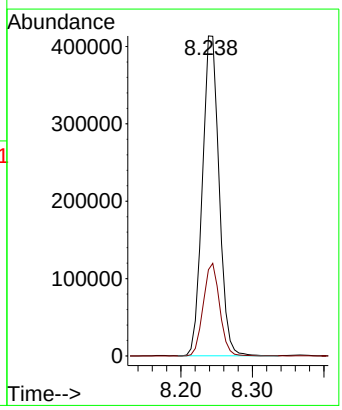


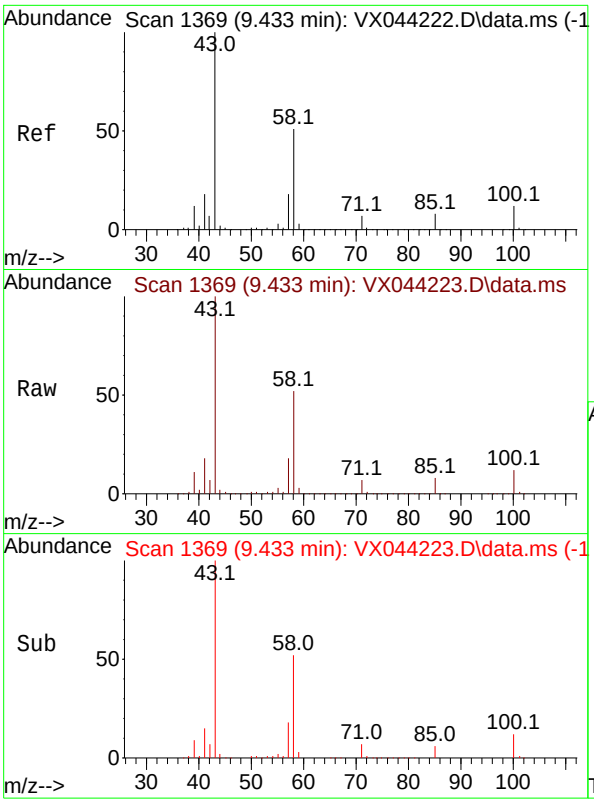


#58
2-Chloroethyl Vinyl ether
Concen: 527.342 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 63 Resp: 671233

Ion	Ratio	Lower	Upper
63	100		
106	28.4	22.8	34.2



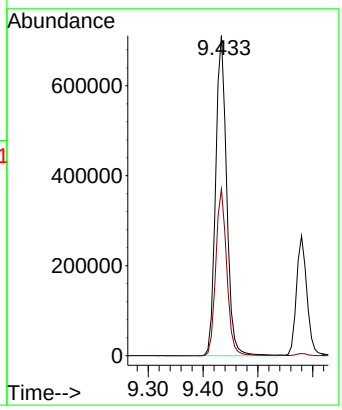


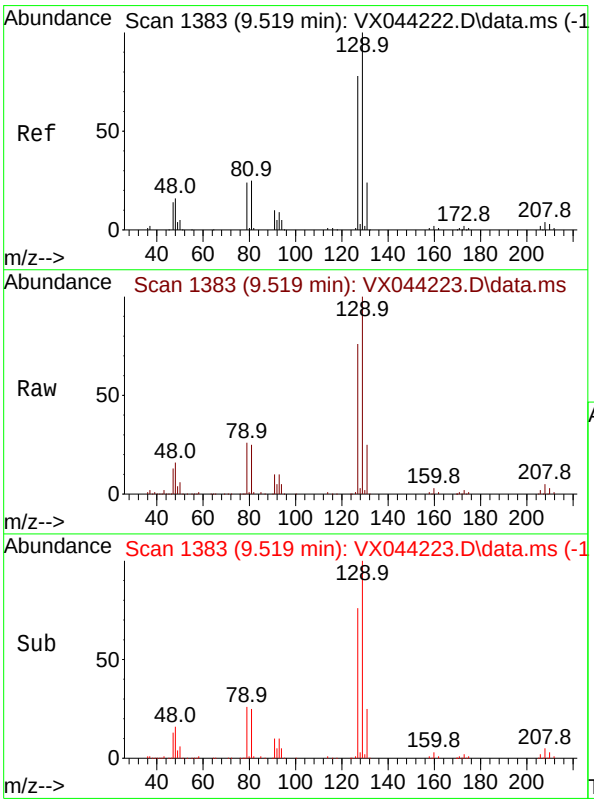
#59
2-Hexanone
Concen: 521.401 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 989466

Ion	Ratio	Lower	Upper
43	100		
58	51.9	25.7	77.0

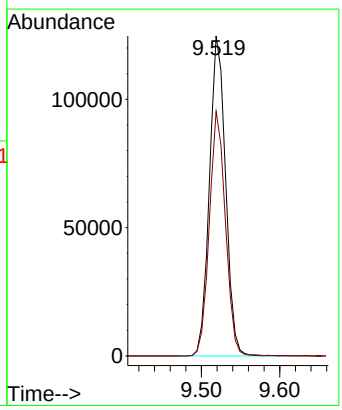


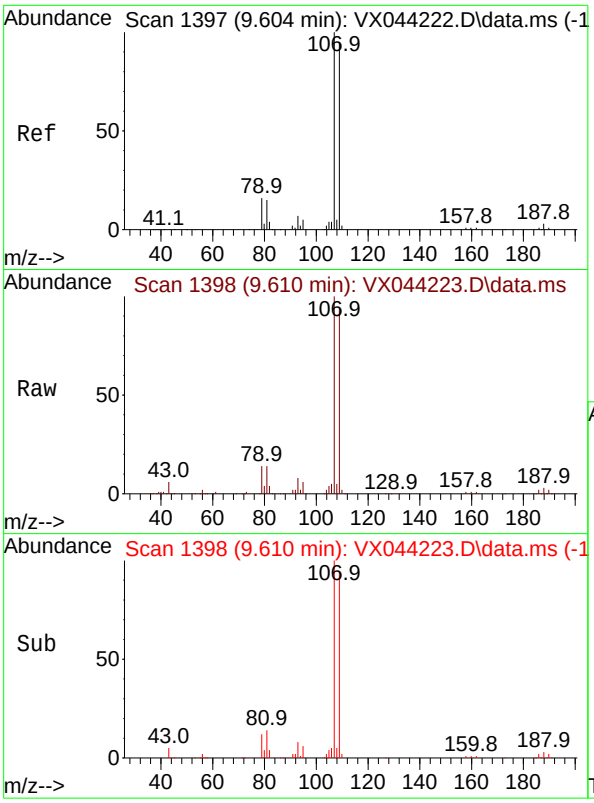


#60
Dibromochloromethane
Concen: 99.480 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:129 Resp: 178135

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.5	115.3



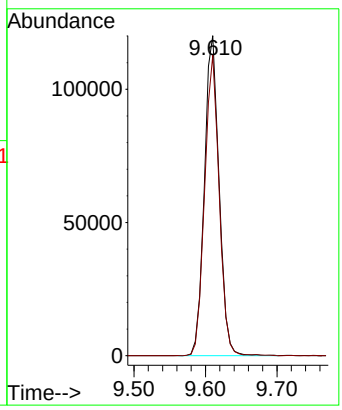


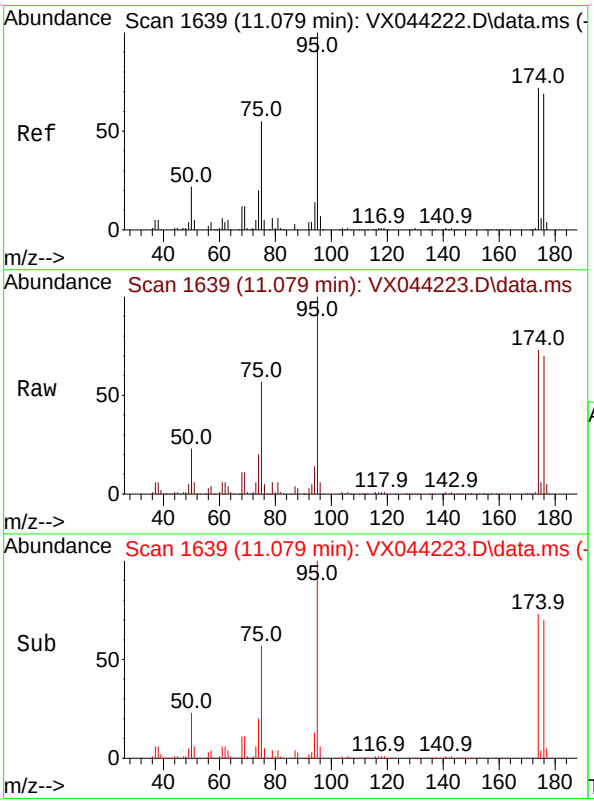
#61
1,2-Dibromoethane
Concen: 105.371 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 171458

Ion	Ratio	Lower	Upper
107	100		
109	93.1	77.0	115.4

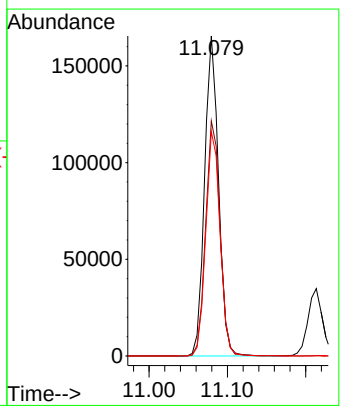


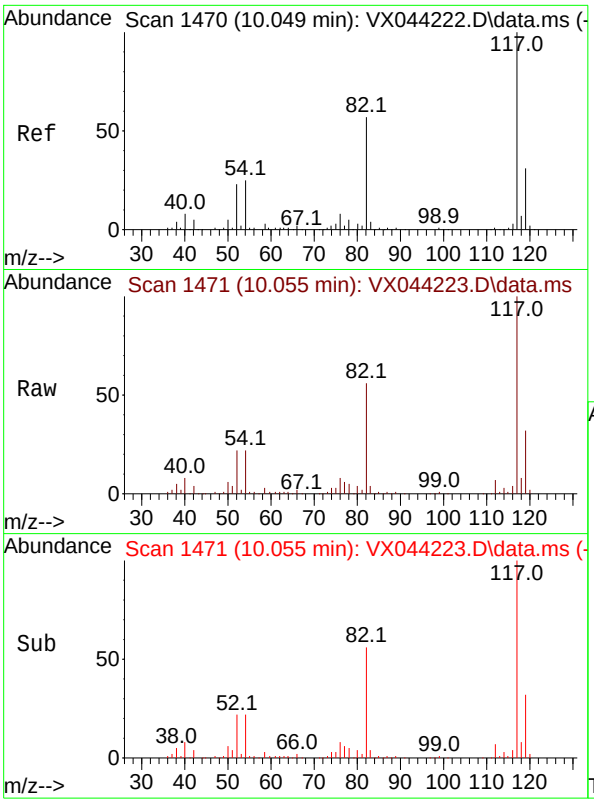


#62
4-Bromofluorobenzene
Concen: 105.830 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 95 Resp: 203694

Ion	Ratio	Lower	Upper
95	100		
174	76.0	0.0	145.8
176	72.0	0.0	137.8



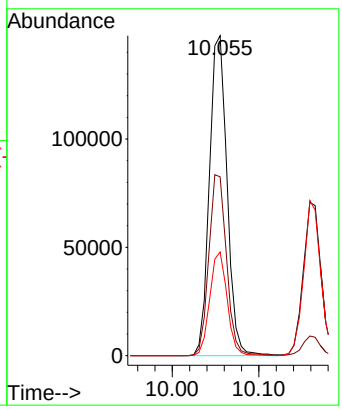


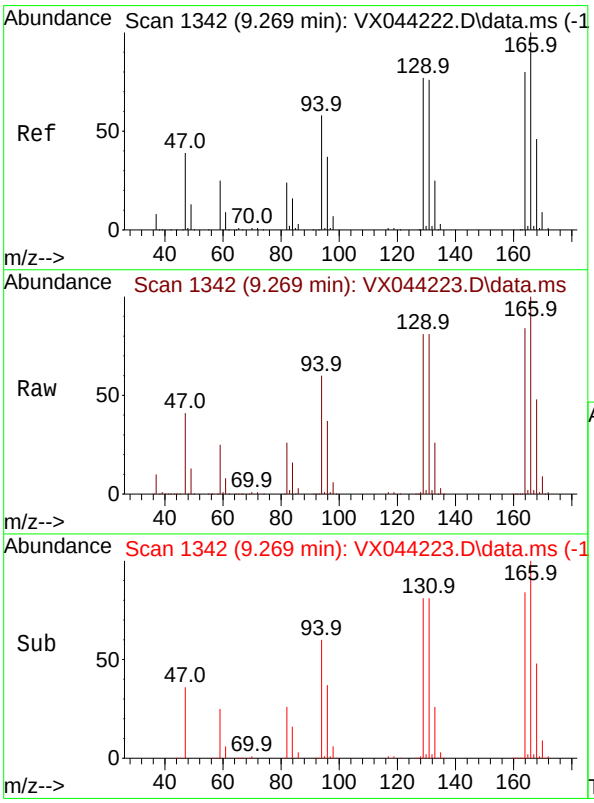
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 209164

Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.8	68.8
119	32.4	25.0	37.4

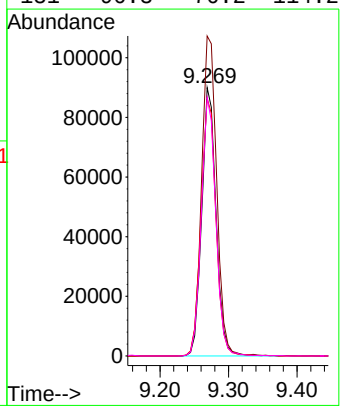


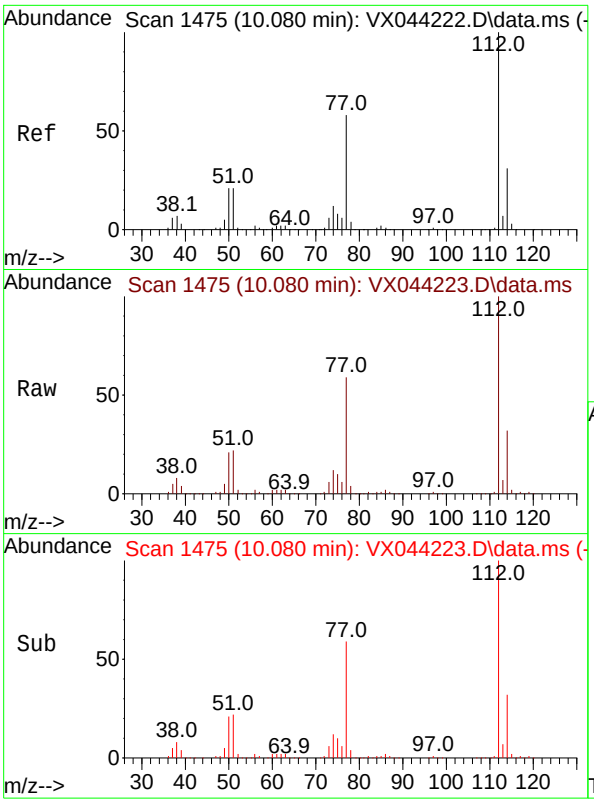


#64
Tetrachloroethene
Concen: 94.131 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:164 Resp: 130678

Ion	Ratio	Lower	Upper
164	100		
166	119.2	100.4	150.6
129	96.1	77.2	115.8
131	96.3	76.2	114.2



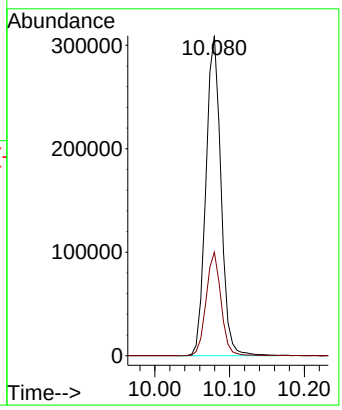


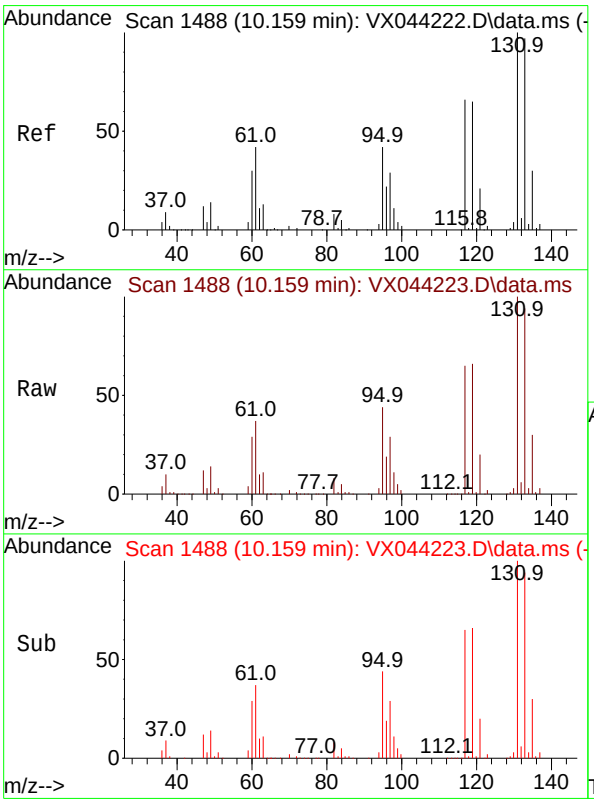
#65
Chlorobenzene
Concen: 96.650 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 433179

Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.6

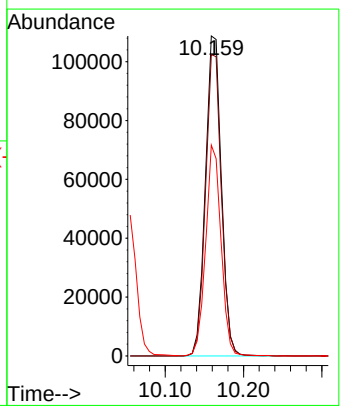


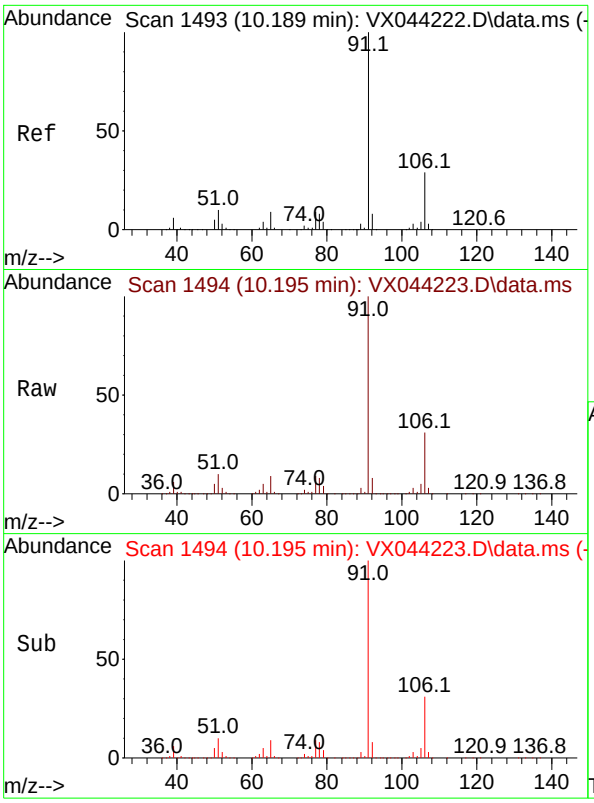


#66
1,1,1,2-Tetrachloroethane
Concen: 106.831 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:131 Resp: 153882

Ion	Ratio	Lower	Upper
131	100		
133	93.6	47.3	141.8
119	63.5	31.6	95.0



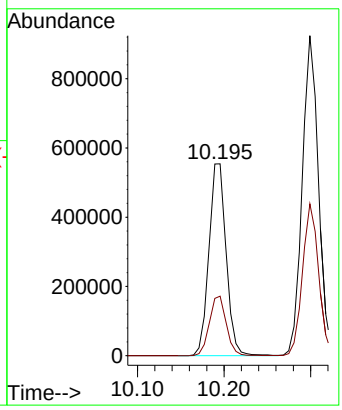


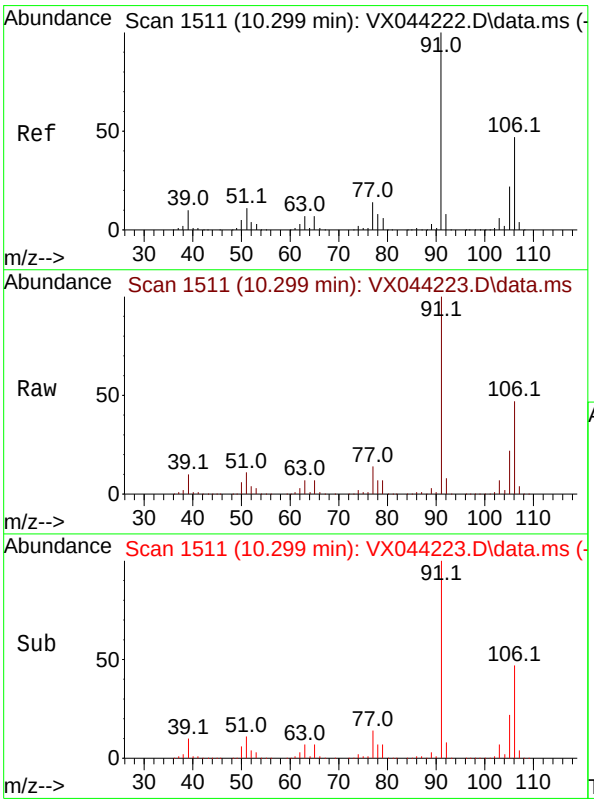
#67
Ethyl Benzene
Concen: 98.906 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 765930

Ion	Ratio	Lower	Upper
91	100		
106	31.0	23.5	35.3

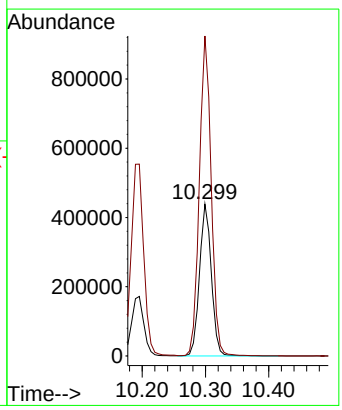


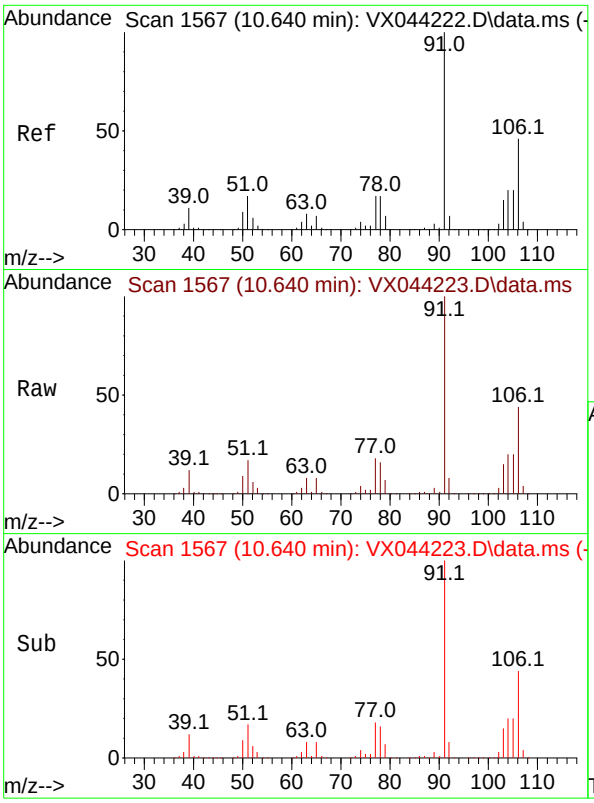


#68
m/p-Xylenes
Concen: 201.171 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:106 Resp: 571648

Ion	Ratio	Lower	Upper
106	100		
91	211.0	170.2	255.2



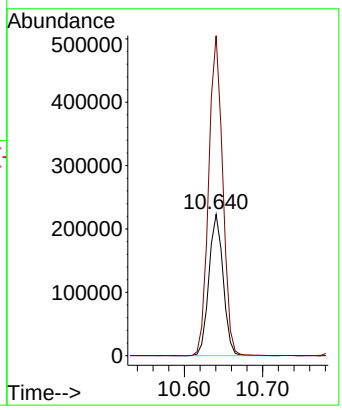


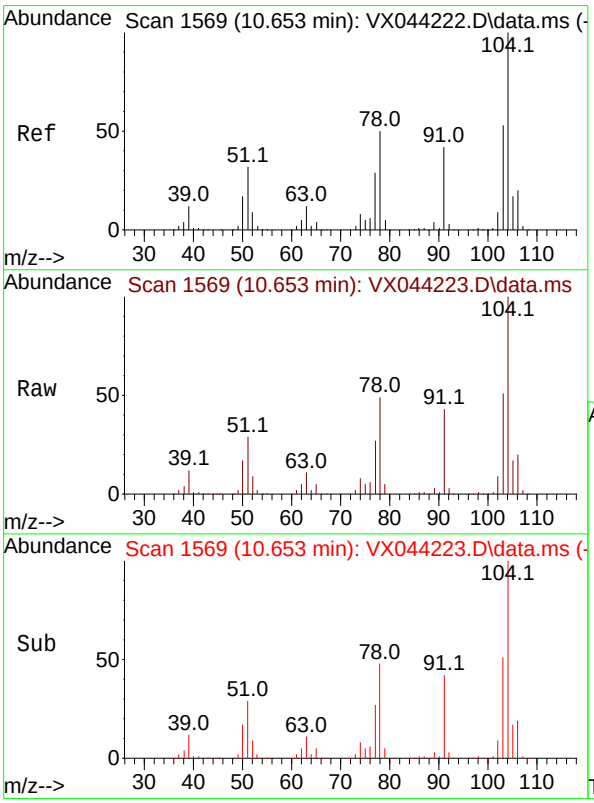
#69
o-Xylene
Concen: 97.597 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 280603

Ion	Ratio	Lower	Upper
106	100		
91	223.9	112.3	337.0

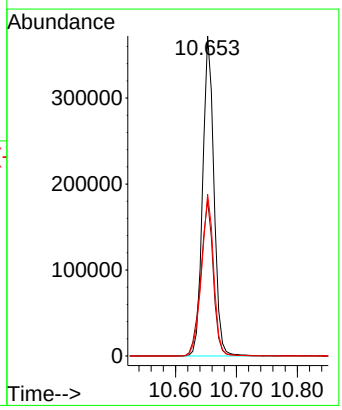


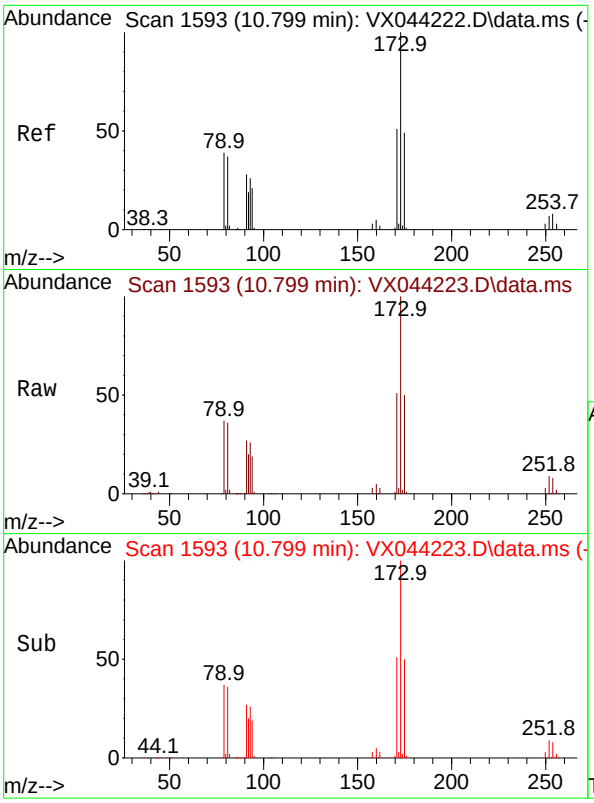


#70
Styrene
Concen: 104.159 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:104 Resp: 480077

Ion	Ratio	Lower	Upper
104	100		
78	53.5	44.6	67.0
103	54.5	45.4	68.0



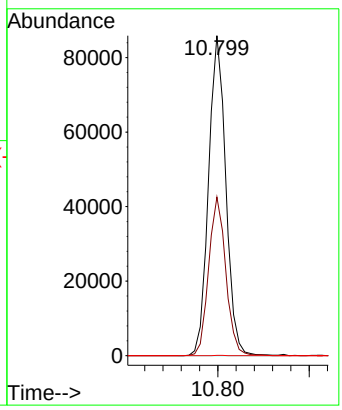


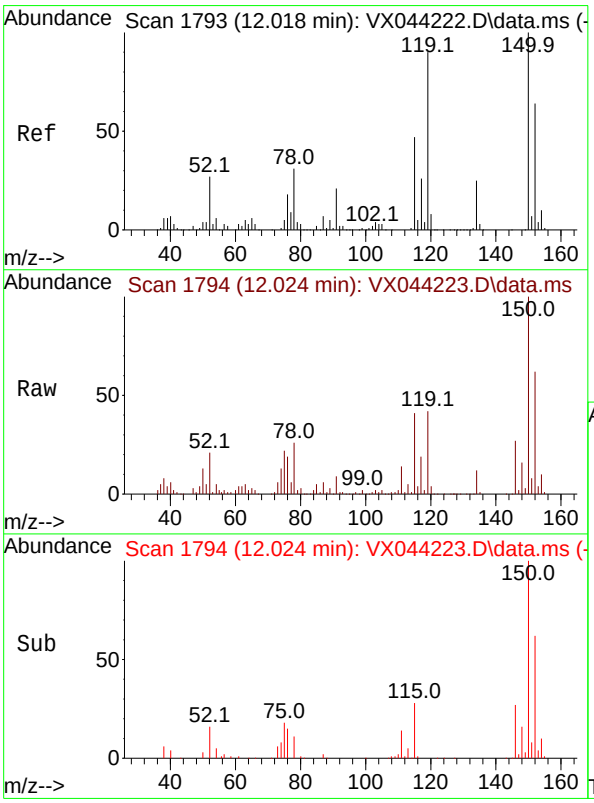
#71
Bromoform
Concen: 99.723 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 112482

Ion	Ratio	Lower	Upper
173	100		
175	49.2	23.8	71.4
254	0.1	0.0	0.0#

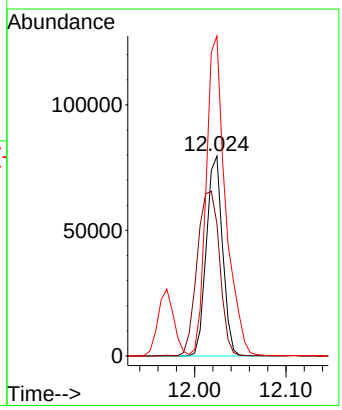


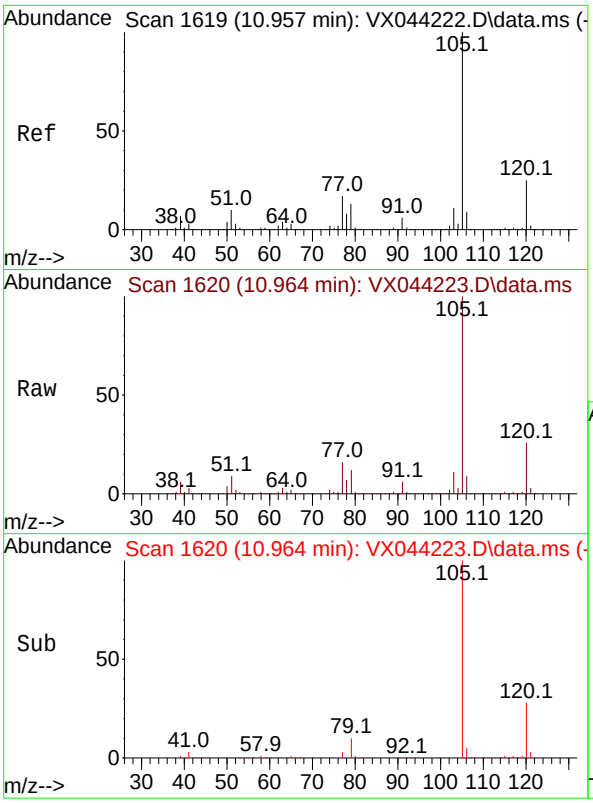


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:152 Resp: 97670

Ion	Ratio	Lower	Upper
152	100		
115	114.3	44.5	133.3
150	190.6	0.0	353.8



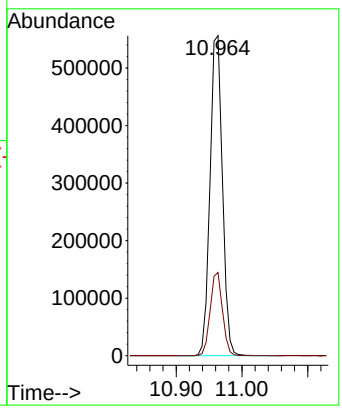


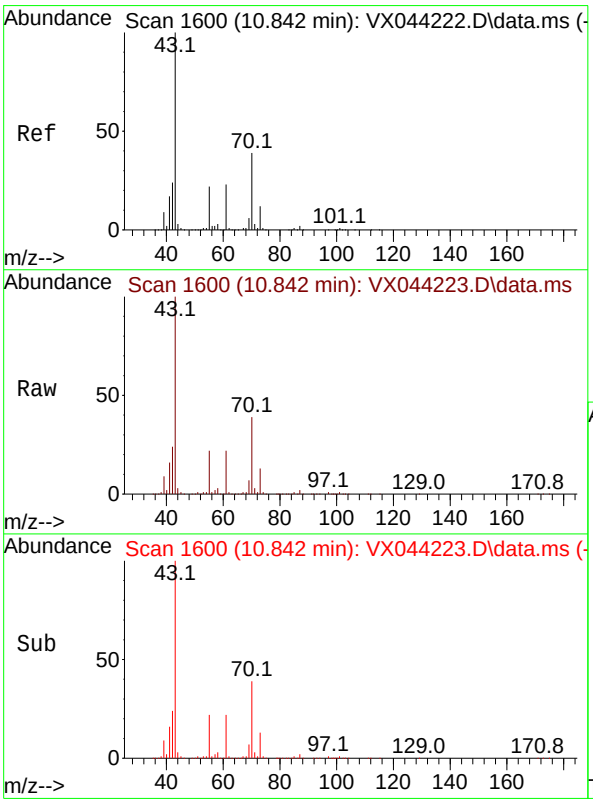
#73
Isopropylbenzene
Concen: 97.894 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 731955

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.1	39.3

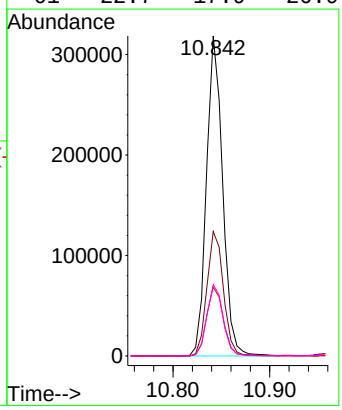


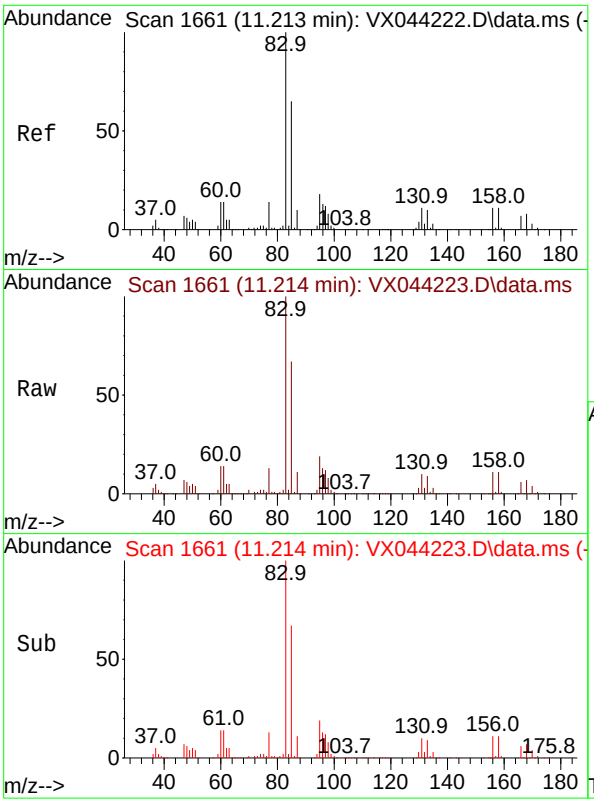


#74
N-amyl acetate
Concen: 107.485 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 43 Resp: 371420

Ion	Ratio	Lower	Upper
43	100		
70	39.7	31.9	47.9
55	22.2	17.9	26.9
61	22.7	17.9	26.9



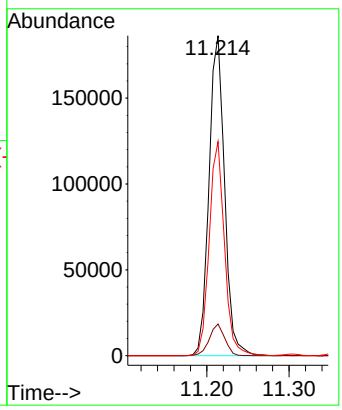


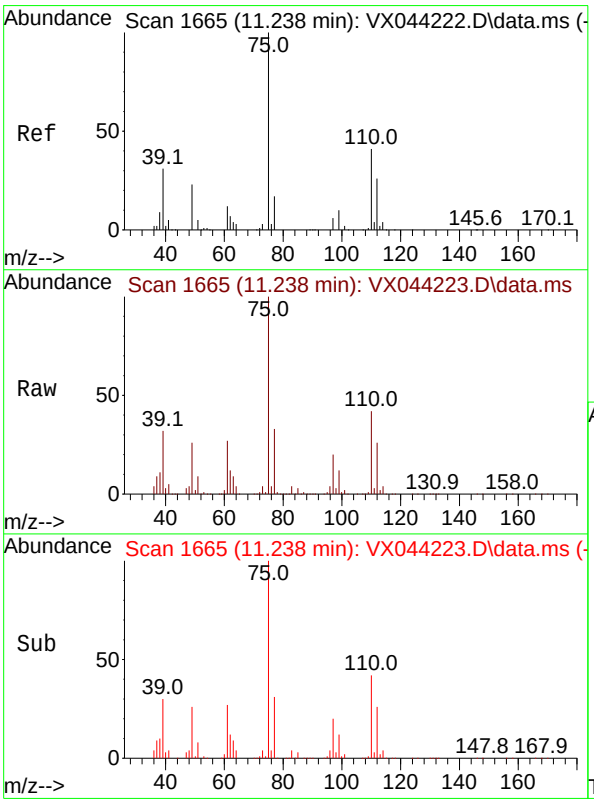
#75
1,1,2,2-Tetrachloroethane
Concen: 94.491 ug/l
RT: 11.214 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 245395

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	65.4	32.5	97.4

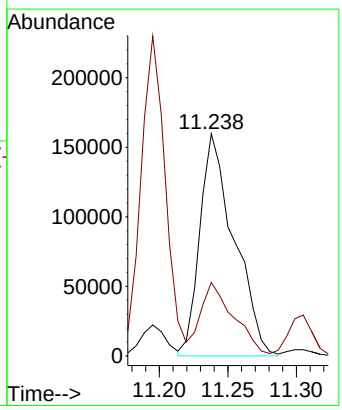


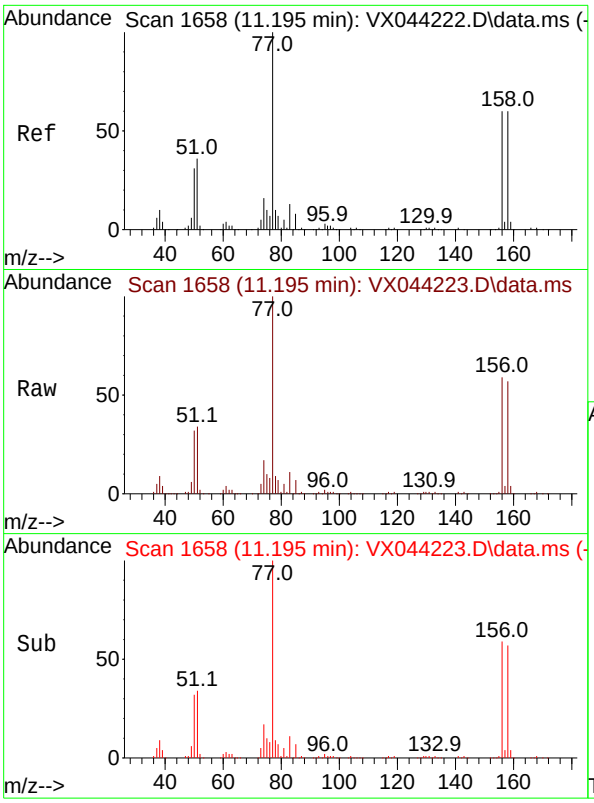


#76
1,2,3-Trichloropropane
Concen: 125.569 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 278299

Ion	Ratio	Lower	Upper
75	100		
77	32.2	20.9	62.7



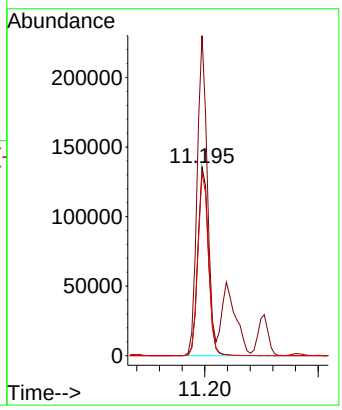


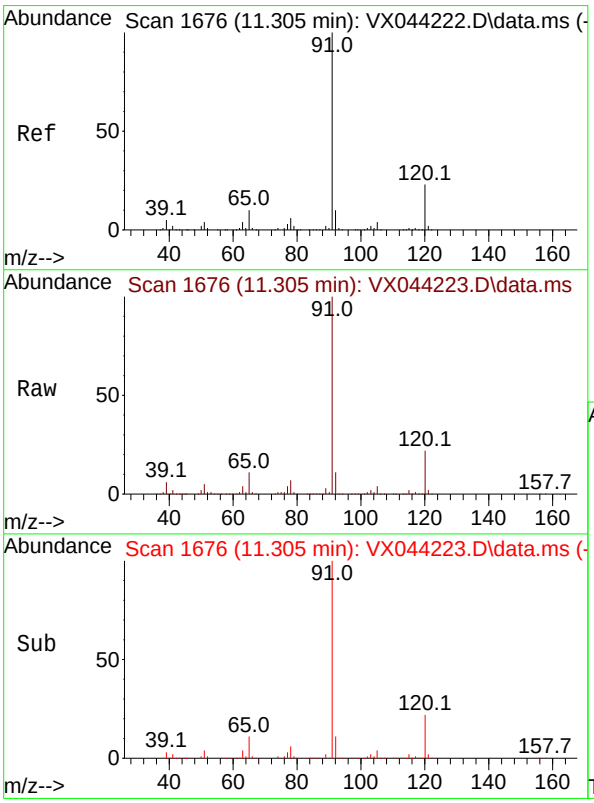
#77
Bromobenzene
Concen: 96.874 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 175647

Ion	Ratio	Lower	Upper
156	100		
77	162.7	82.6	247.8
158	96.2	48.8	146.4

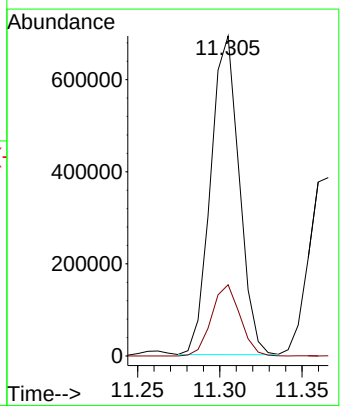


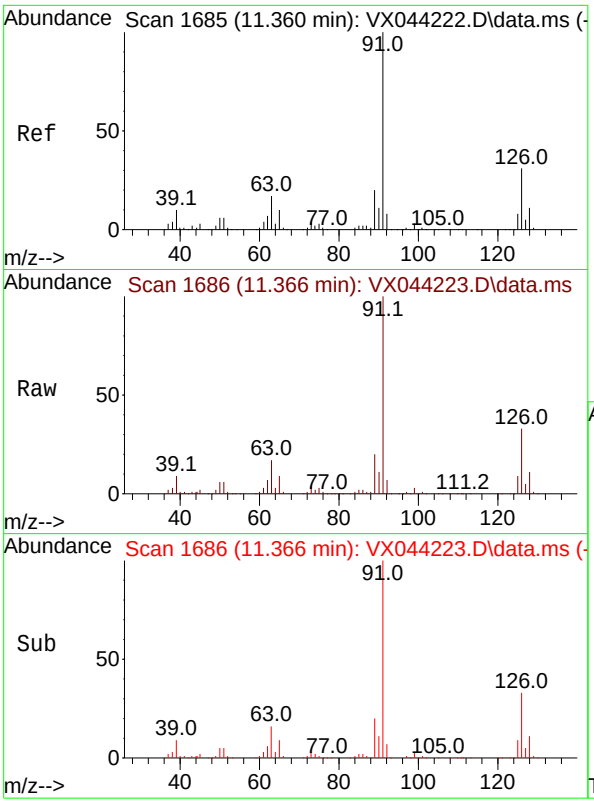


#78
n-propylbenzene
Concen: 101.242 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 836676

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.0	33.0



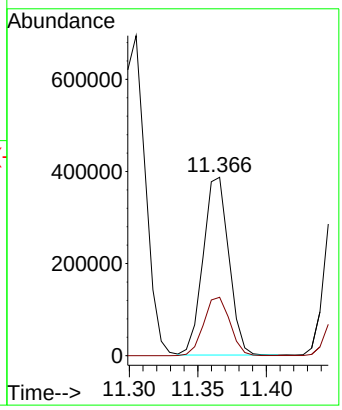


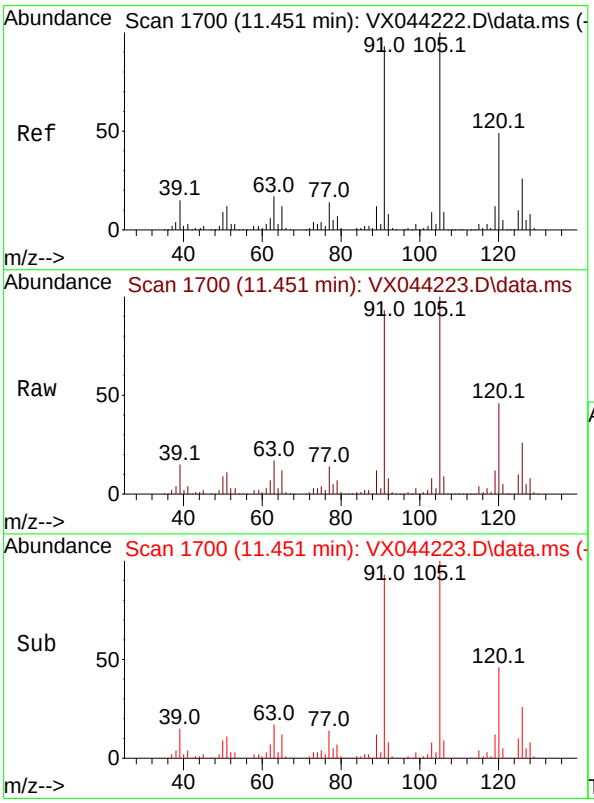
#79
2-Chlorotoluene
Concen: 94.377 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 504407

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.1

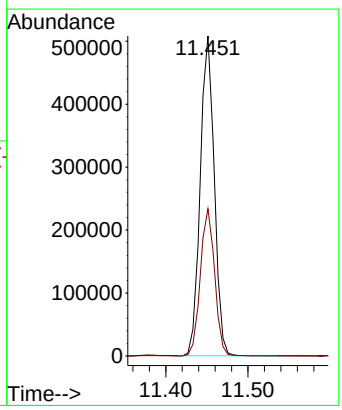


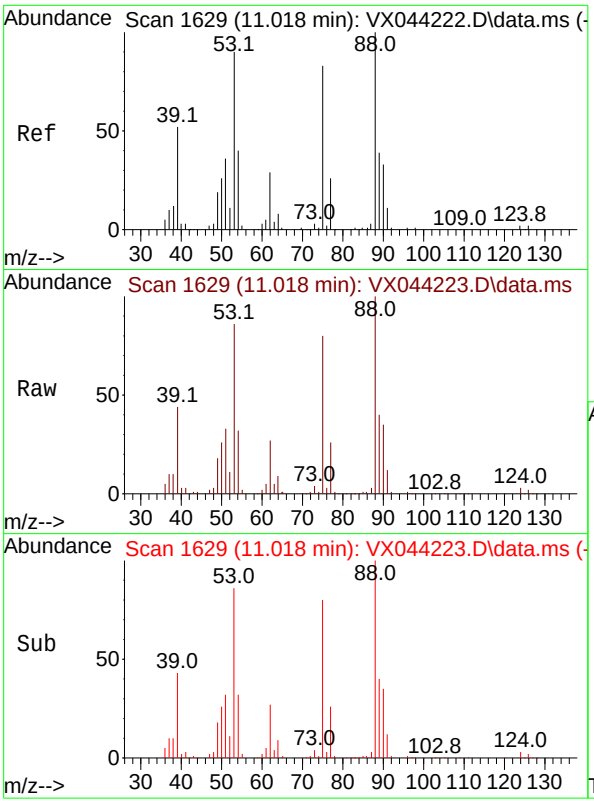


#80
1,3,5-Trimethylbenzene
Concen: 97.570 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 604993

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.8	71.4



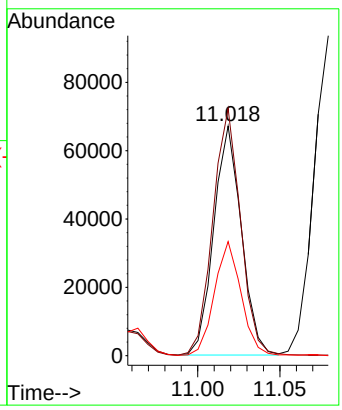


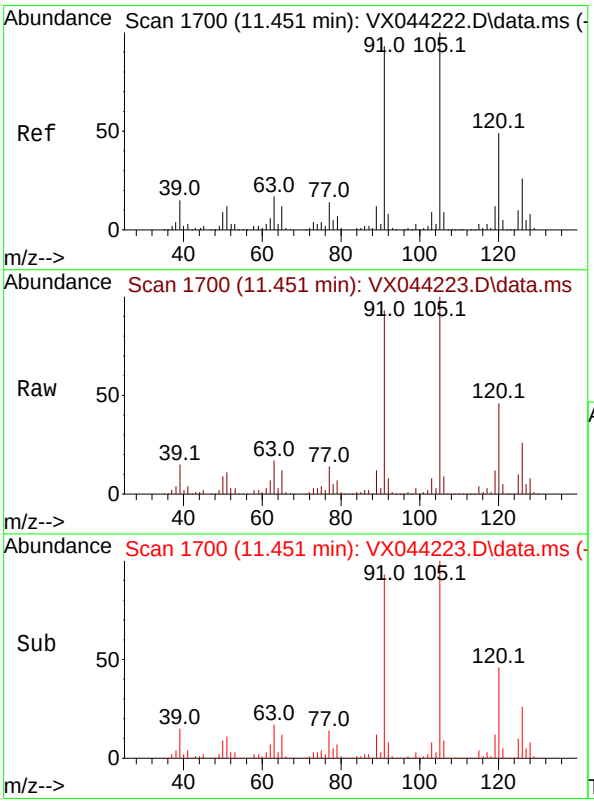
#81
trans-1,4-Dichloro-2-butene
Concen: 97.165 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 78453

Ion	Ratio	Lower	Upper
75	100		
53	107.9	93.6	140.4
89	47.8	37.3	55.9

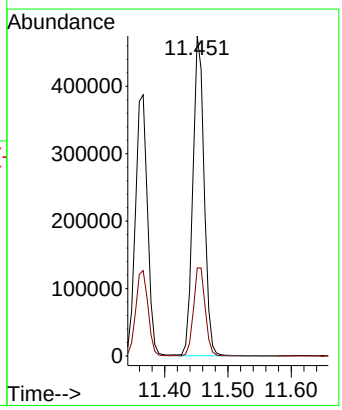


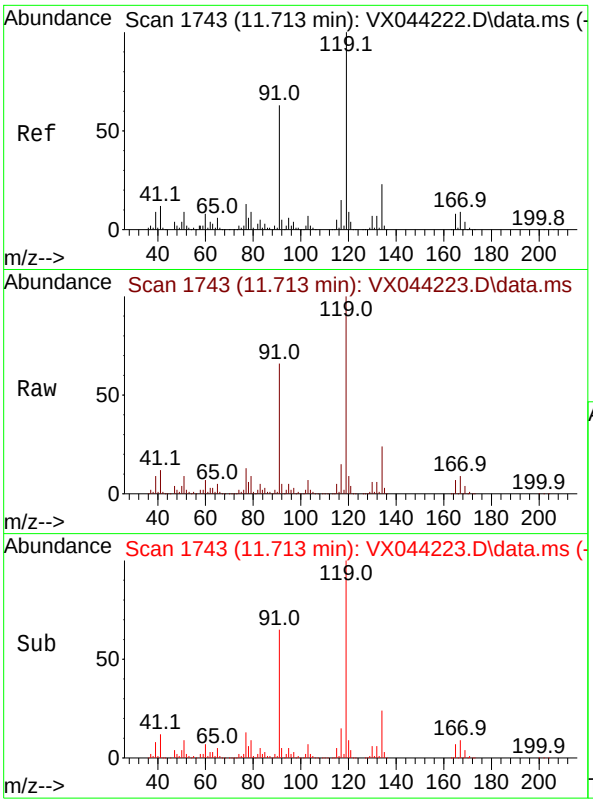


#82
4-Chlorotoluene
Concen: 99.384 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 91 Resp: 588197

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5



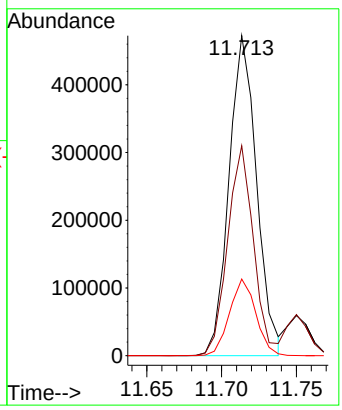


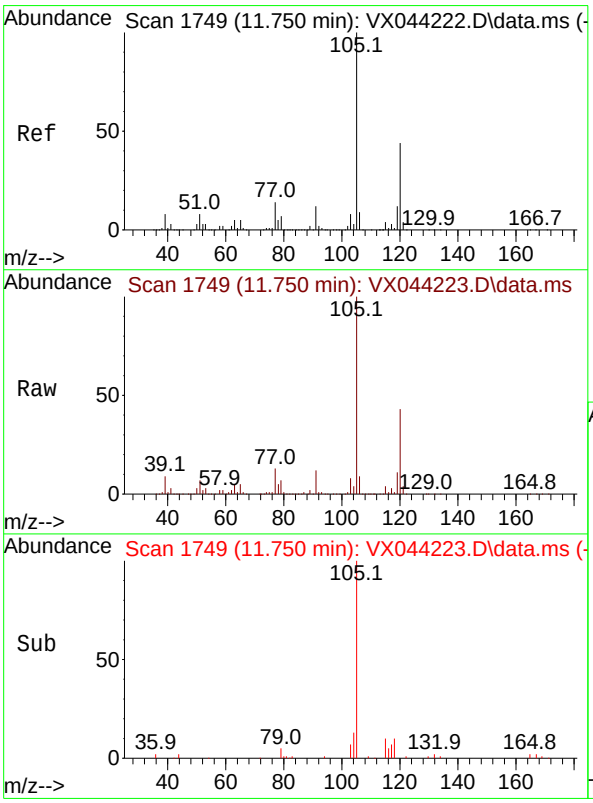
#83
tert-Butylbenzene
Concen: 99.013 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 606738

Ion	Ratio	Lower	Upper
119	100		
91	61.5	30.9	92.5
134	22.8	11.5	34.4

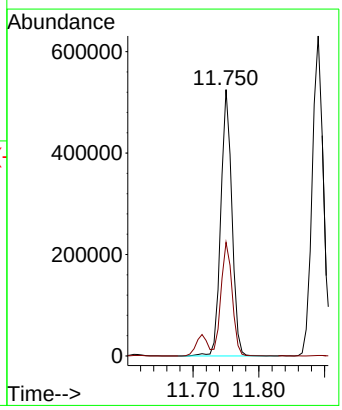


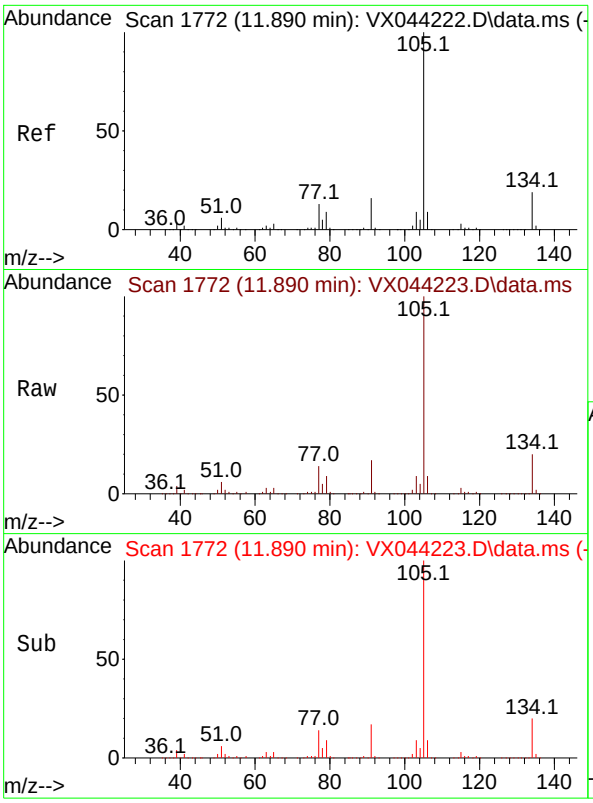


#84
1,2,4-Trimethylbenzene
Concen: 100.994 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:105 Resp: 614999

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1



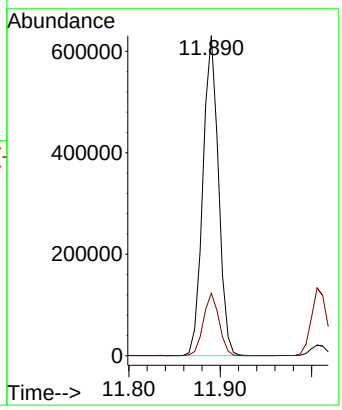


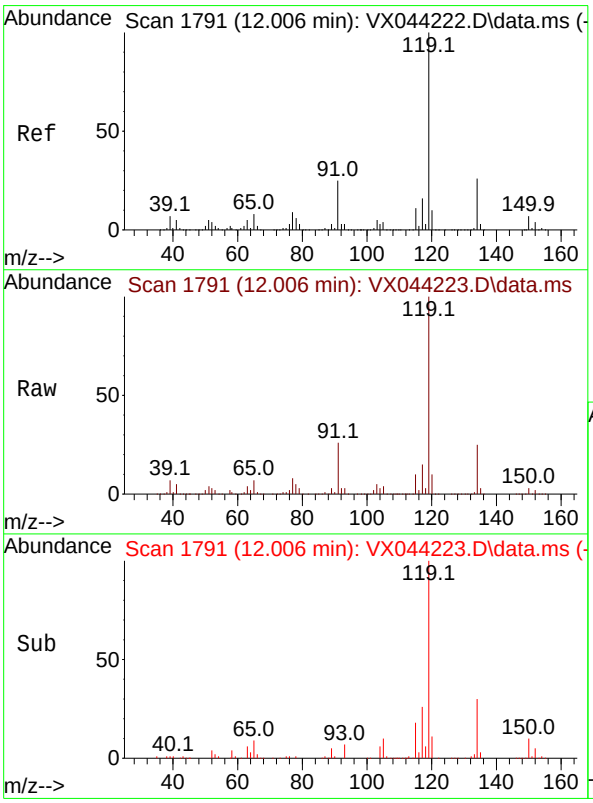
#85
sec-Butylbenzene
Concen: 99.889 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 743098

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4

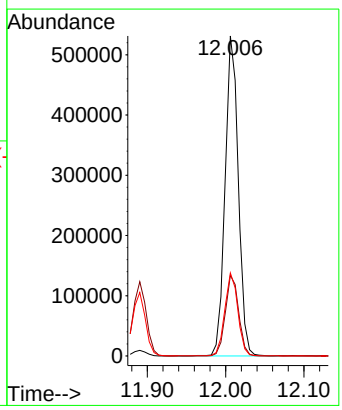


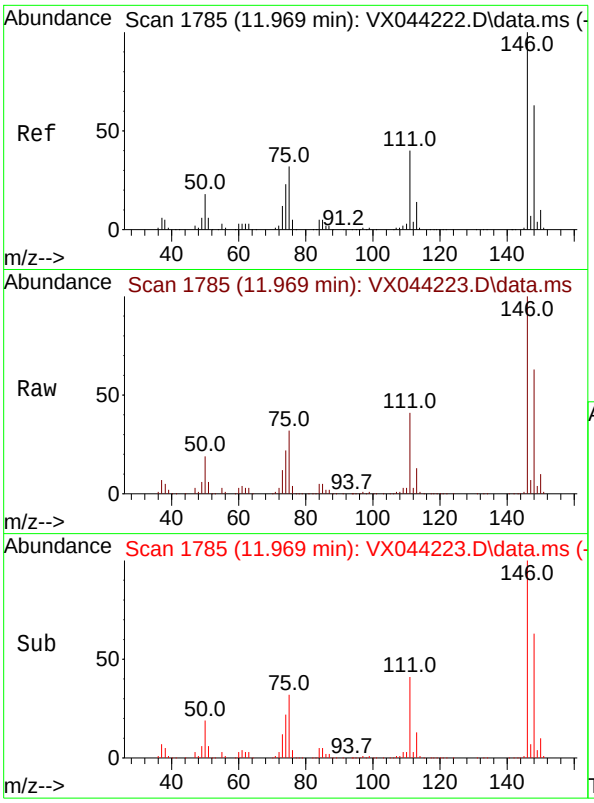


#86
p-Isopropyltoluene
Concen: 100.847 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:119 Resp: 624416

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.8	38.4
91	25.6	13.0	39.0



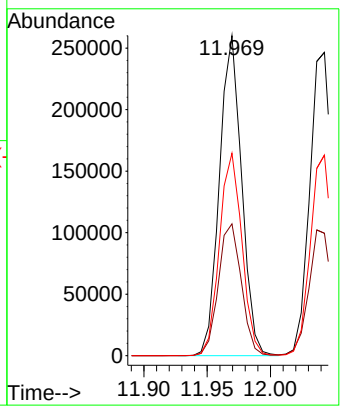


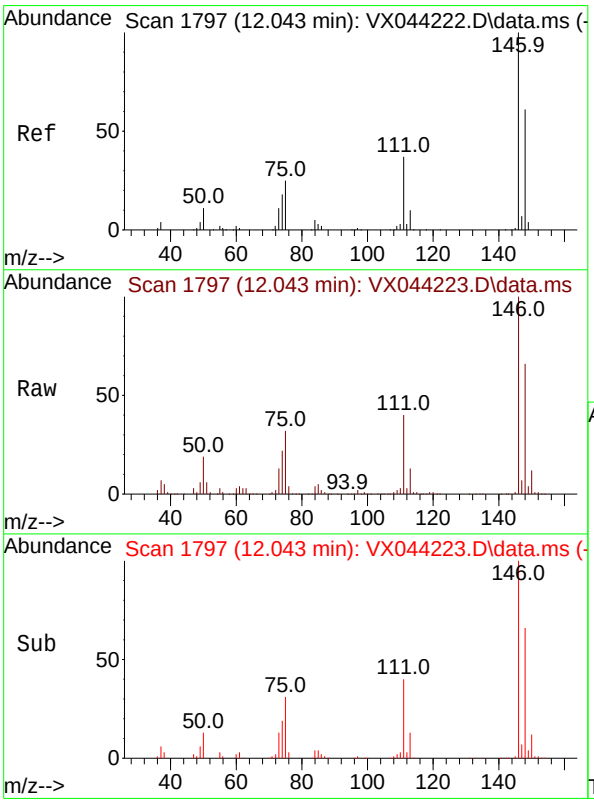
#87
1,3-Dichlorobenzene
Concen: 100.210 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 317377

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.4	64.2
148	64.1	31.7	95.1

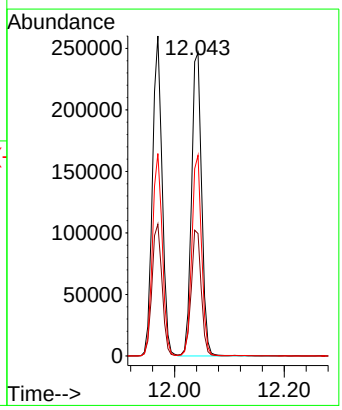


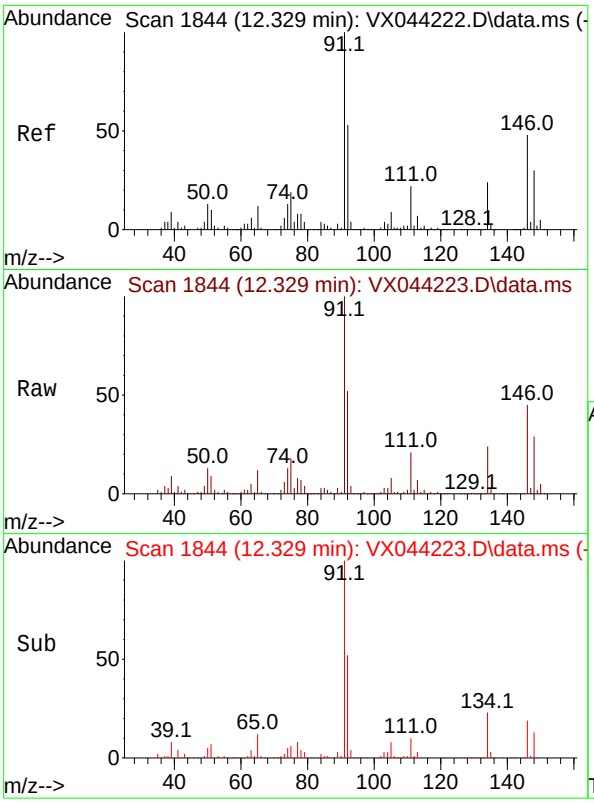


#88
1,4-Dichlorobenzene
Concen: 97.271 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:146 Resp: 316688

Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.0	63.0
148	63.7	32.3	96.8



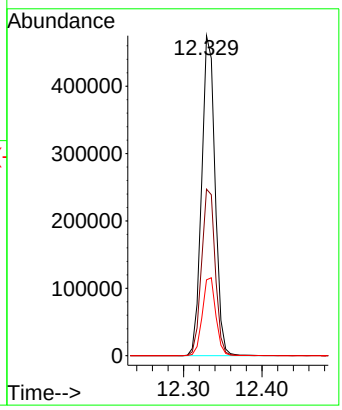


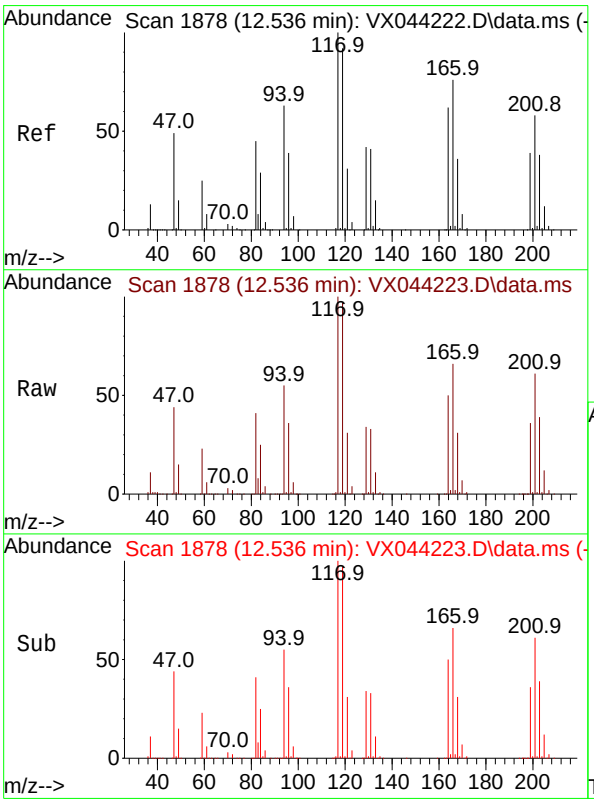
#89
n-Butylbenzene
Concen: 108.385 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 564303

Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.6	79.7
134	24.5	12.6	37.8

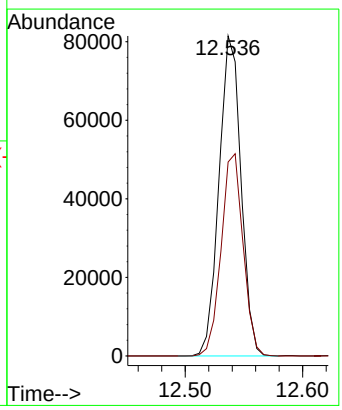


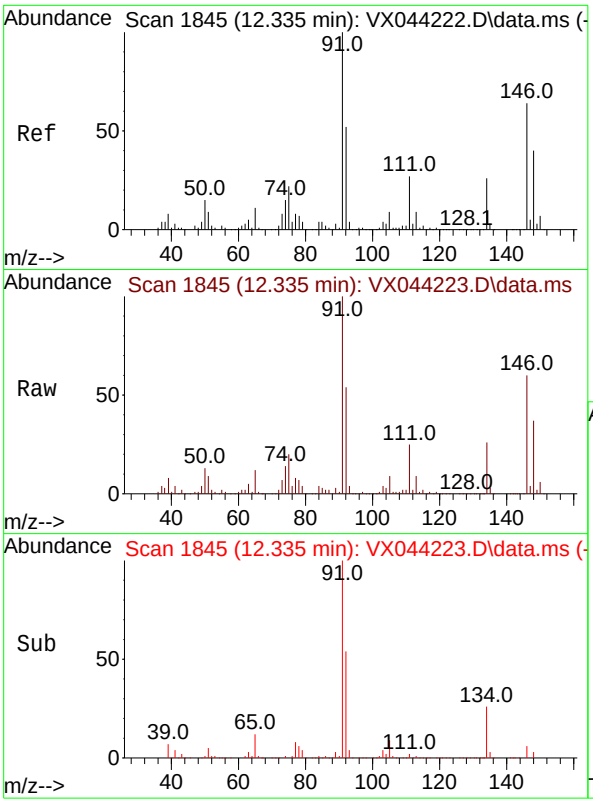


#90
Hexachloroethane
Concen: 117.218 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:117 Resp: 105946

Ion	Ratio	Lower	Upper
117	100		
201	63.2	31.4	94.2



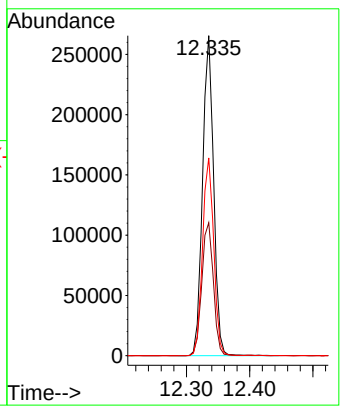


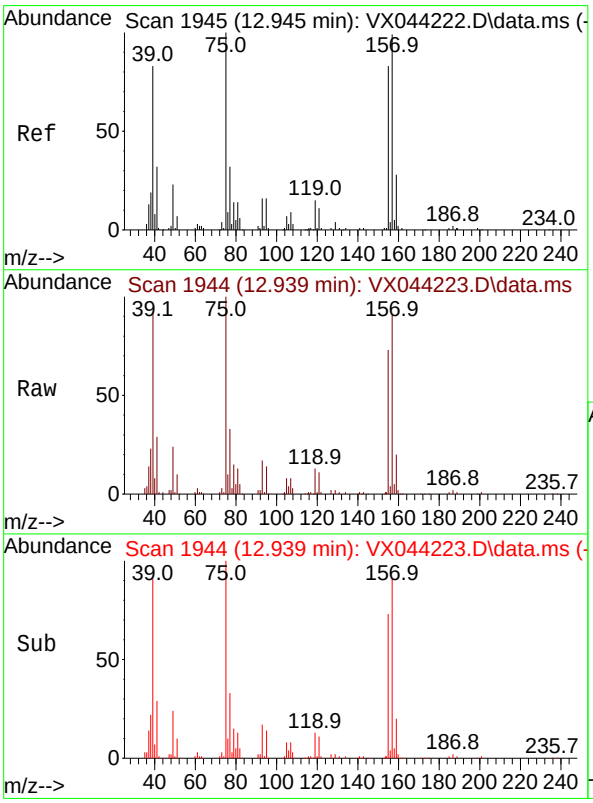
#91
1,2-Dichlorobenzene
Concen: 98.232 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 323040

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.4	64.3
148	62.6	31.6	95.0

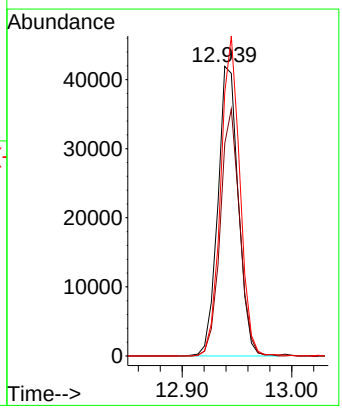


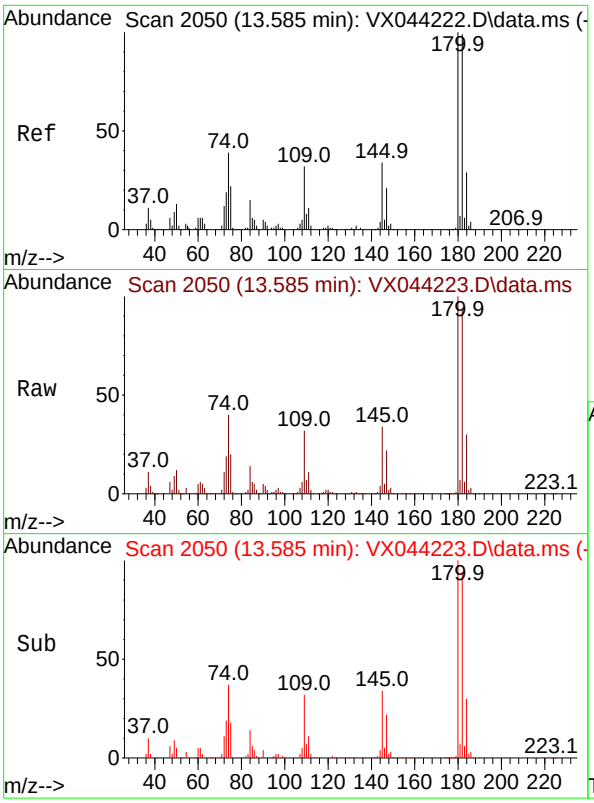


#92
1,2-Dibromo-3-Chloropropane
Concen: 108.279 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion: 75 Resp: 54588

Ion	Ratio	Lower	Upper
75	100		
155	80.6	38.1	114.3
157	102.8	47.2	141.6



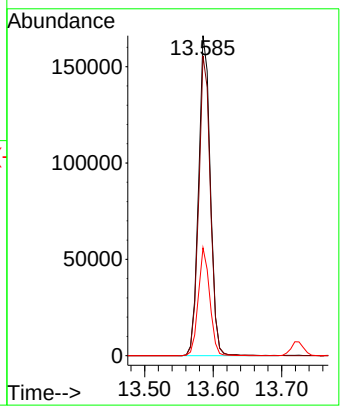


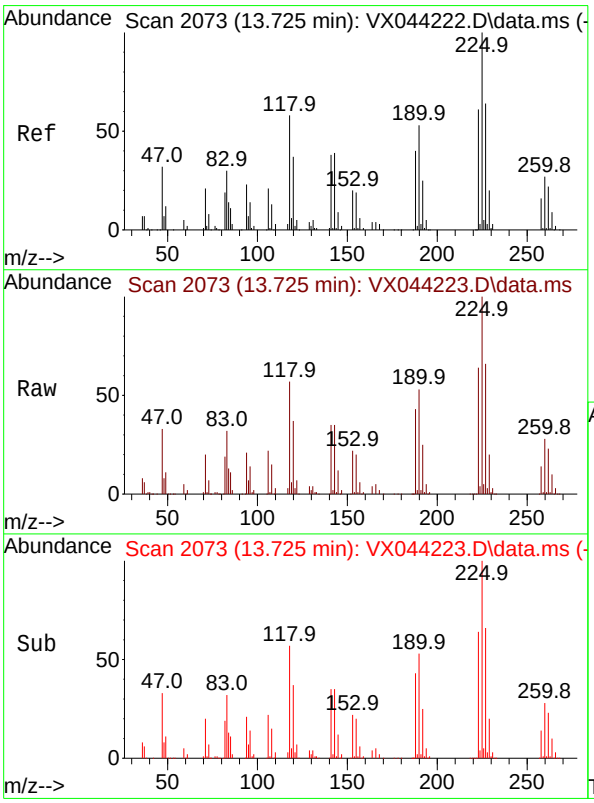
#93
1,2,4-Trichlorobenzene
Concen: 109.766 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 197899

Ion	Ratio	Lower	Upper
180	100		
182	93.5	48.0	144.2
145	32.9	16.6	49.7

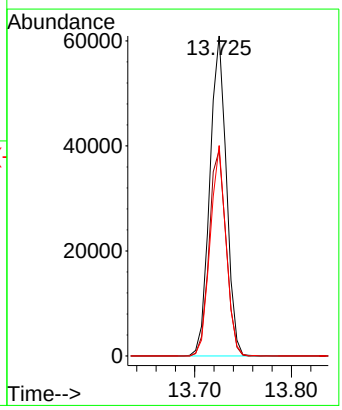


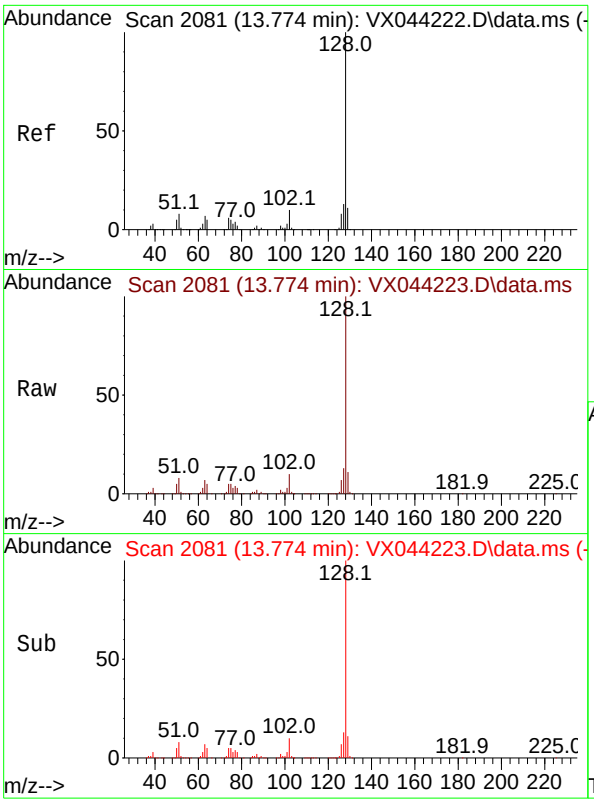


#94
Hexachlorobutadiene
Concen: 99.908 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:225 Resp: 72453

Ion	Ratio	Lower	Upper
225	100		
223	65.5	30.8	92.4
227	62.9	32.1	96.3



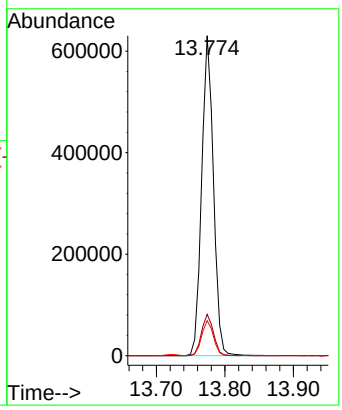


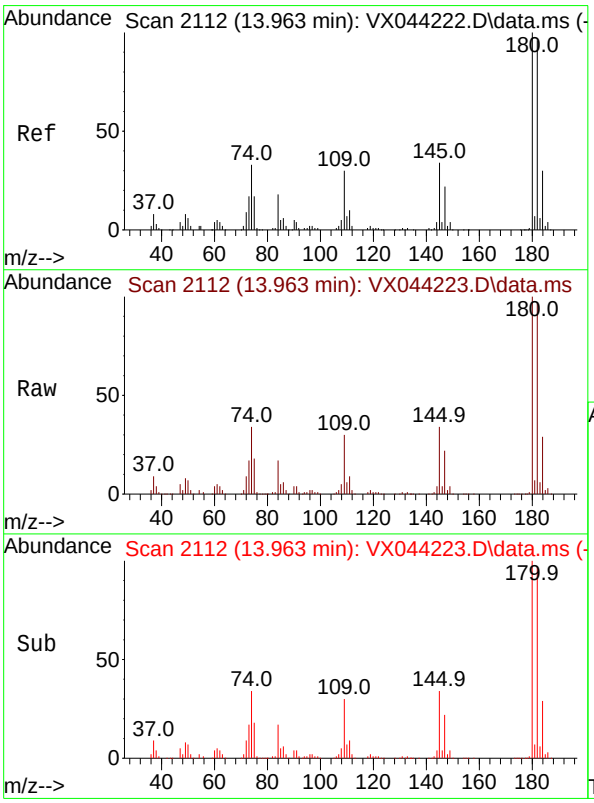
#95
Naphthalene
Concen: 107.308 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 755181

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	9.0	13.4

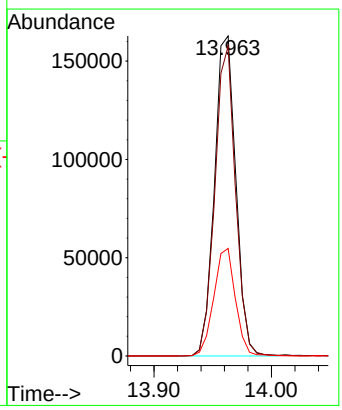




#96
1,2,3-Trichlorobenzene
Concen: 107.754 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VX044223.D
Acq: 11 Dec 2024 12:37

Tgt Ion:180 Resp: 206053

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.0
145	34.1	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	117957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	218610	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	190013	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	90898	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	314272	151.956	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 303.920%#			
35) Dibromofluoromethane	5.385	113	231937	153.188	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 306.380%#			
50) Toluene-d8	8.647	98	788876	154.438	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 308.880%#			
62) 4-Bromofluorobenzene	11.079	95	279706	156.709	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 313.420%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	268739	147.342	ug/l	98
3) Chloromethane	1.294	50	261734	150.062	ug/l	97
4) Vinyl Chloride	1.374	62	260651	143.446	ug/l	97
5) Bromomethane	1.593	94	194089	150.562	ug/l	100
6) Chloroethane	1.660	64	150640	133.137	ug/l	98
7) Trichlorofluoromethane	1.861	101	500315	140.645	ug/l	99
8) Diethyl Ether	2.136	74	183845	151.407	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	219513	152.497	ug/l	99
10) Methyl Iodide	2.441	142	284184	149.795	ug/l	99
11) Tert butyl alcohol	3.014	59	266830	916.880	ug/l	98
12) 1,1-Dichloroethene	2.306	96	211016	159.600	ug/l	96
13) Acrolein	2.239	56	341487	809.350	ug/l	100
14) Allyl chloride	2.654	41	346773	157.465	ug/l	99
15) Acrylonitrile	3.068	53	649783	804.774	ug/l	99
16) Acetone	2.392	43	658120	780.537	ug/l	98
17) Carbon Disulfide	2.495	76	481926	191.754	ug/l	99
18) Methyl Acetate	2.709	43	336516	154.792	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	806360	156.286	ug/l	98
20) Methylene Chloride	2.782	84	236412	149.282	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	221622	157.719	ug/l	99
22) Diisopropyl ether	3.763	45	751292	151.500	ug/l	98
23) Vinyl Acetate	3.727	43	3464902	859.417	ug/l	99
24) 1,1-Dichloroethane	3.605	63	431006	155.921	ug/l	100
25) 2-Butanone	4.568	43	957709	798.973	ug/l	99
26) 2,2-Dichloropropane	4.465	77	367781	163.773	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	269708	151.131	ug/l	99
28) Bromochloromethane	4.897	49	200978	148.269	ug/l	100
29) Tetrahydrofuran	5.013	42	602095	782.561	ug/l	99
30) Chloroform	5.092	83	463606	149.274	ug/l	99
31) Cyclohexane	5.458	56	332026	148.745	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	415253	161.073	ug/l	99
36) 1,1-Dichloropropene	5.684	75	290913	148.642	ug/l	99
37) Ethyl Acetate	4.721	43	376757	155.731	ug/l	99
38) Carbon Tetrachloride	5.672	117	346795	164.587	ug/l	98
39) Methylcyclohexane	7.373	83	368542	157.516	ug/l	99
40) Benzene	6.031	78	887413	149.340	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.928	41	199851	155.569 ug/l	99
42) 1,2-Dichloroethane	6.086	62	369874	151.105 ug/l	100
43) Isopropyl Acetate	6.342	43	617107	163.200 ug/l	99
44) Trichloroethene	7.123	130	224164	151.275 ug/l	100
45) 1,2-Dichloropropane	7.427	63	224224	147.697 ug/l	96
46) Dibromomethane	7.580	93	184590	156.728 ug/l	99
47) Bromodichloromethane	7.818	83	352904	173.496 ug/l	98
48) Methyl methacrylate	7.696	41	292890	159.567 ug/l	98
49) 1,4-Dioxane	7.665	88	111023	3539.235 ug/l #	88
51) 4-Methyl-2-Pentanone	8.580	43	1907523	784.573 ug/l	99
52) Toluene	8.714	92	557102	149.294 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	366275	150.167 ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	382226	172.581 ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	222665	150.202 ug/l	98
56) Ethyl methacrylate	9.116	69	389165	166.289 ug/l	99
57) 1,3-Dichloropropane	9.305	76	387086	150.014 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	970949	822.575 ug/l	100
59) 2-Hexanone	9.433	43	1436300	816.161 ug/l	99
60) Dibromochloromethane	9.525	129	261253	150.105 ug/l	99
61) 1,2-Dibromoethane	9.610	107	242451	160.674 ug/l	97
64) Tetrachloroethene	9.269	164	186443	147.836 ug/l	98
65) Chlorobenzene	10.079	112	608404	149.428 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	218515	166.991 ug/l	100
67) Ethyl Benzene	10.195	91	1068736	151.917 ug/l	98
68) m/p-Xylenes	10.299	106	806058	312.254 ug/l	98
69) o-Xylene	10.640	106	397084	152.030 ug/l	98
70) Styrene	10.652	104	670887	160.228 ug/l	98
71) Bromoform	10.799	173	169450	150.034 ug/l #	99
73) Isopropylbenzene	10.963	105	1021749	146.832 ug/l	99
74) N-amyl acetate	10.841	43	536496	166.823 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	352591	145.883 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	400724	194.277 ug/l	85
77) Bromobenzene	11.201	156	243975	144.584 ug/l	100
78) n-propylbenzene	11.305	91	1166255	151.637 ug/l	98
79) 2-Chlorotoluene	11.366	91	700673	140.866 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	853042	147.824 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	117263	152.670 ug/l	93
82) 4-Chlorotoluene	11.451	91	825278	149.831 ug/l	99
83) tert-Butylbenzene	11.713	119	846864	148.495 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	846771	149.414 ug/l	100
85) sec-Butylbenzene	11.890	105	1034419	149.409 ug/l	99
86) p-Isopropyltoluene	12.006	119	875562	151.944 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	443826	150.575 ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	442556	146.058 ug/l	99
89) n-Butylbenzene	12.329	91	808399	166.836 ug/l	100
90) Hexachloroethane	12.536	117	154726	183.942 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	447931	146.357 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	83565	178.106 ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	288519	171.952 ug/l	98
94) Hexachlorobutadiene	13.725	225	103961	154.036 ug/l	98
95) Naphthalene	13.774	128	1094997	167.187 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	293760	165.064 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration

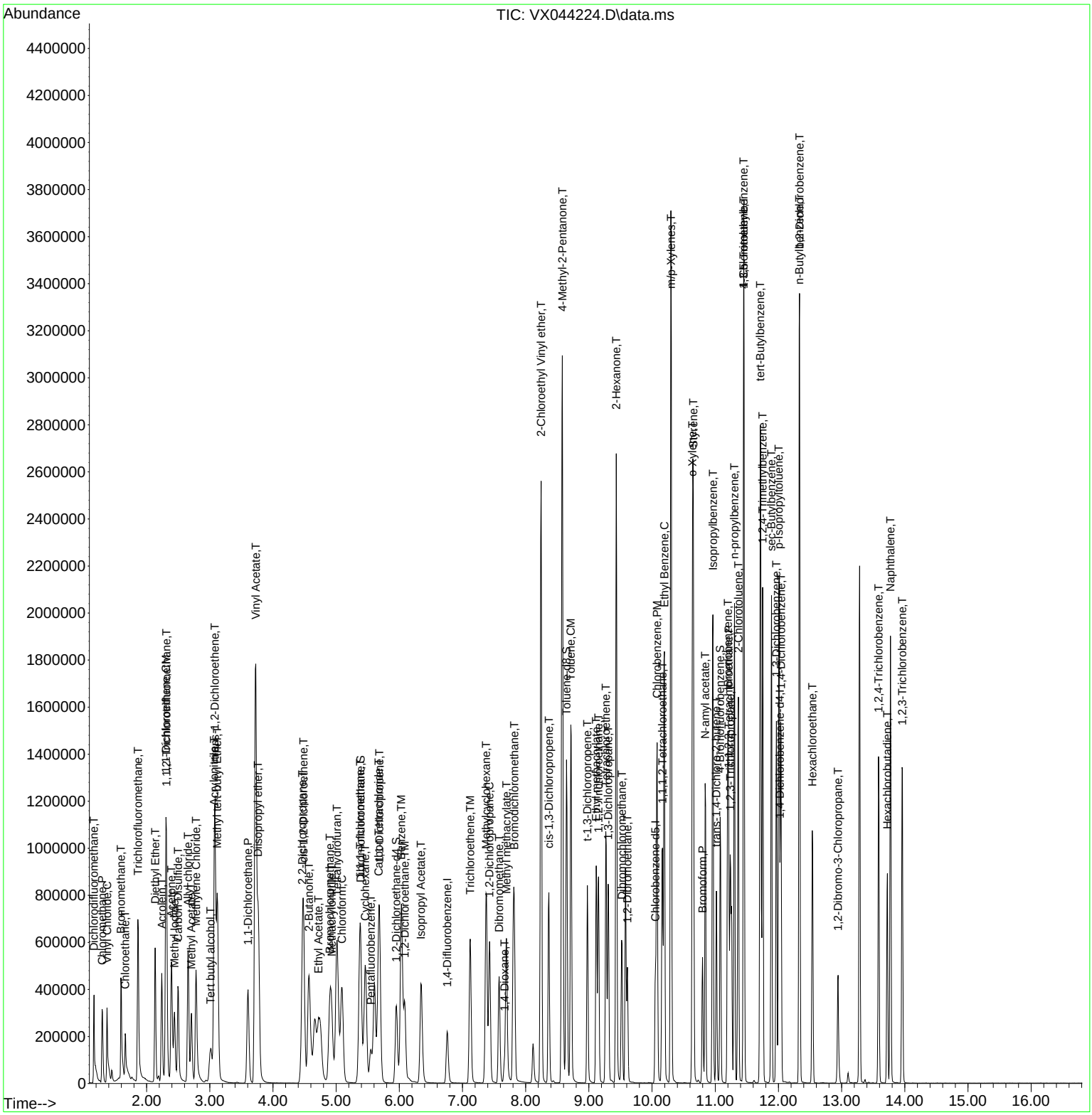
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

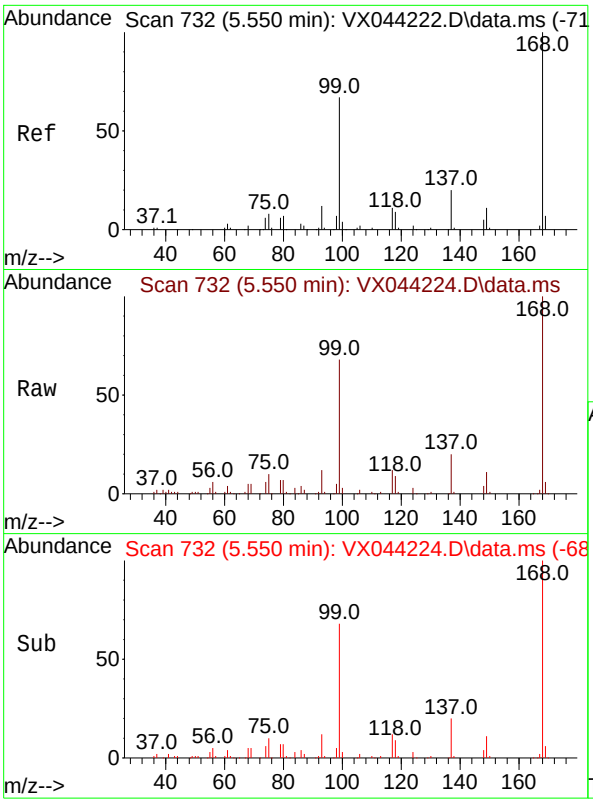
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044224.D
Acq On : 11 Dec 2024 13:00
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Dec 12 04:16:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:11:59 2024
Response via : Initial Calibration



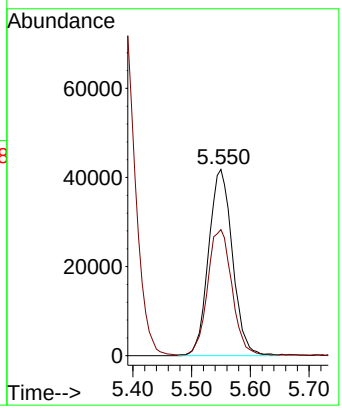


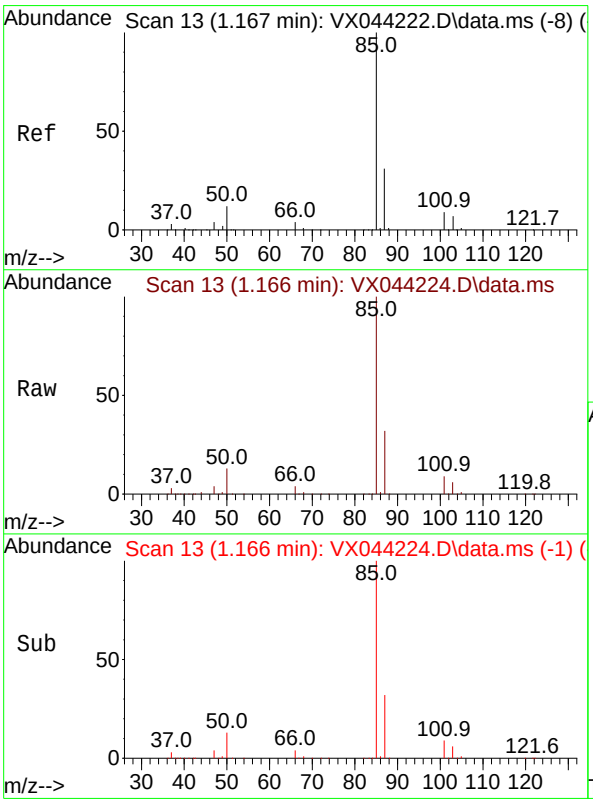
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 117957

Ion	Ratio	Lower	Upper
168	100		
99	67.2	53.4	80.0

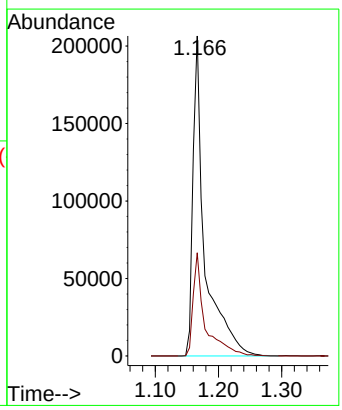


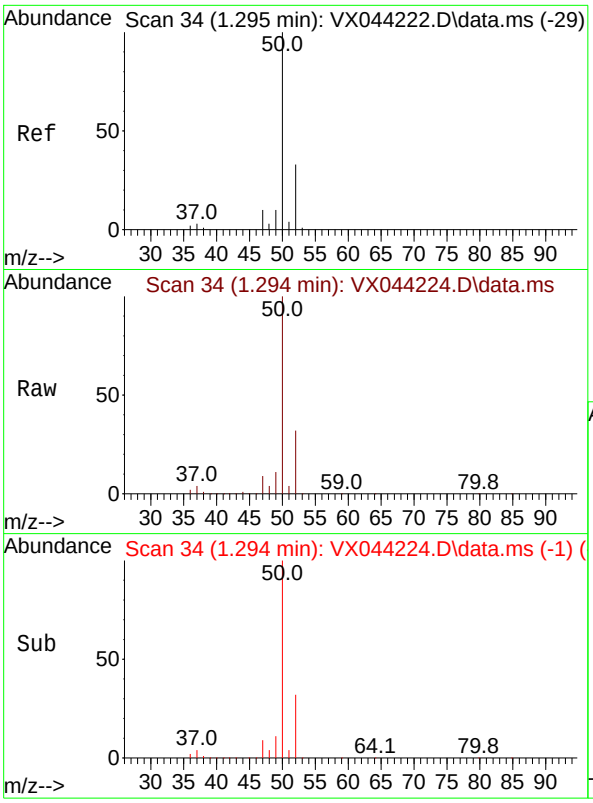


#2
Dichlorodifluoromethane
Concen: 147.342 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 85 Resp: 268739

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.4	46.4



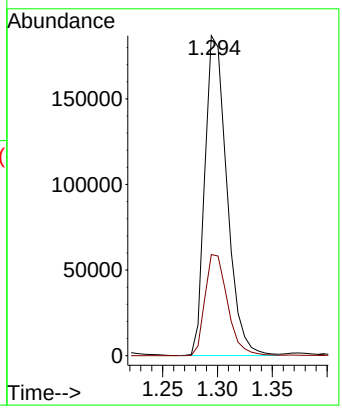


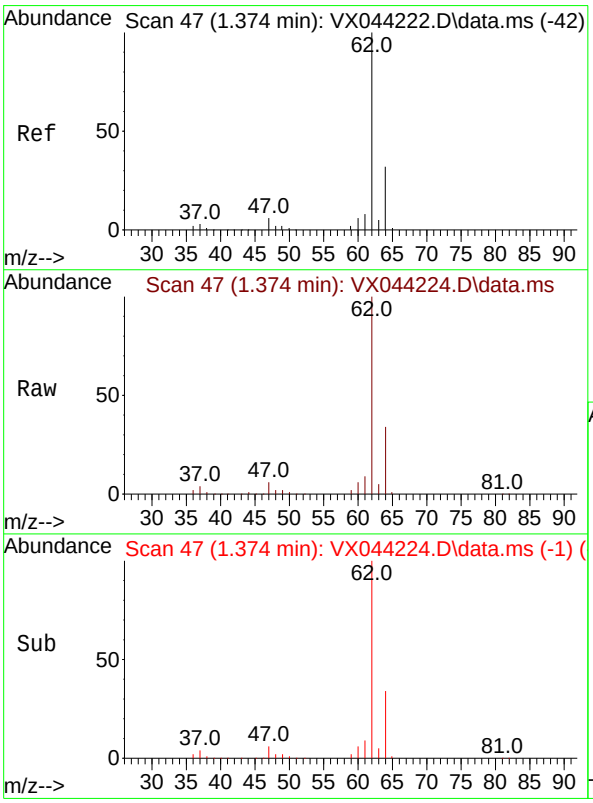
#3
Chloromethane
Concen: 150.062 ug/l
RT: 1.294 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 261734

Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.5	39.7

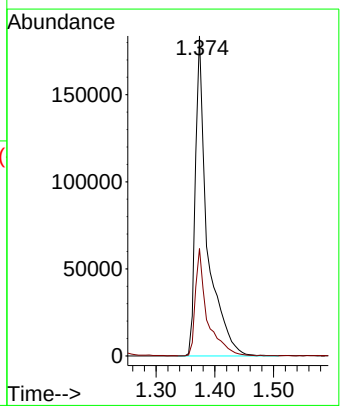


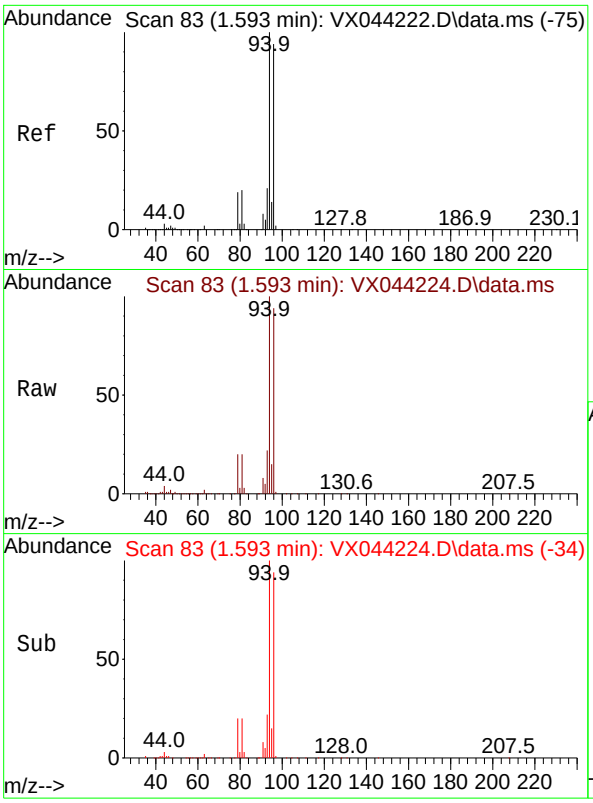


#4
Vinyl Chloride
Concen: 143.446 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 260651

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.7	38.5



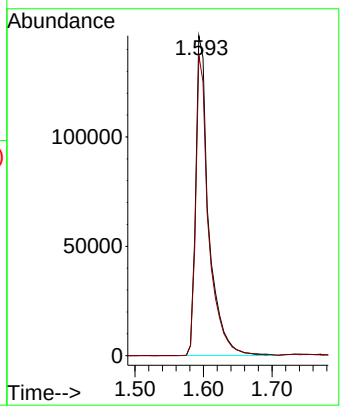


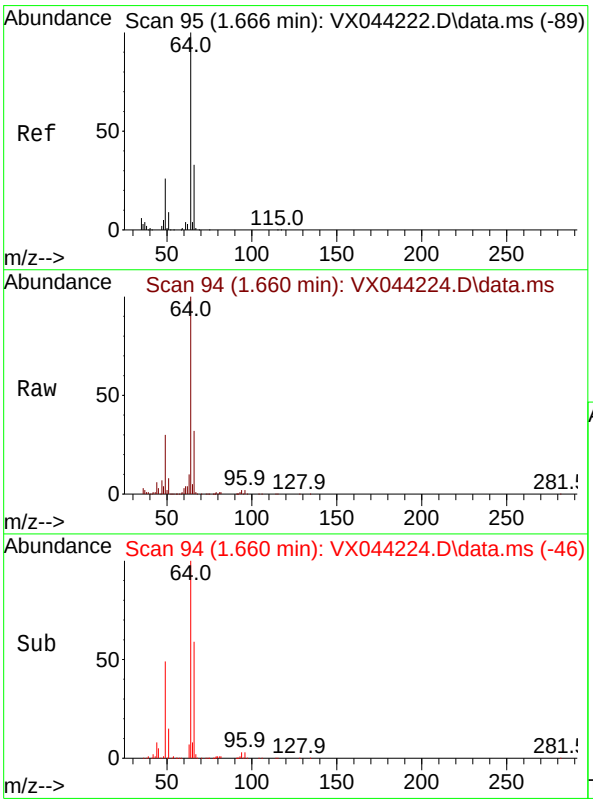
#5
Bromomethane
Concen: 150.562 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 194089

Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.9	112.3

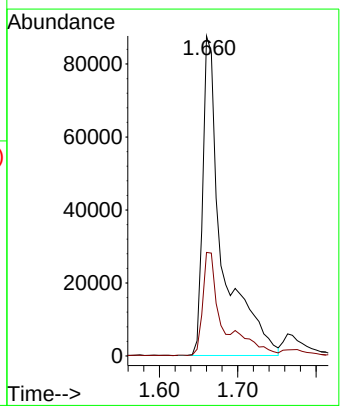


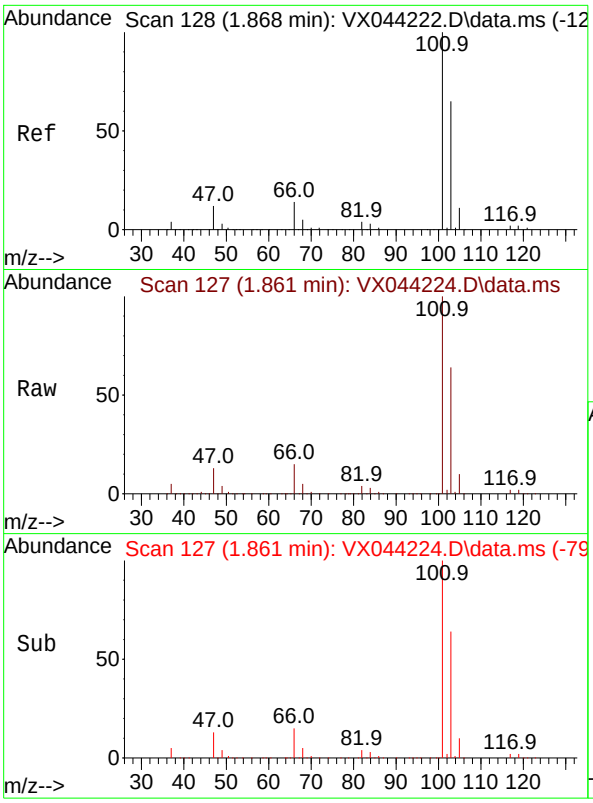


#6
Chloroethane
Concen: 133.137 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 64 Resp: 150640

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.6	39.8



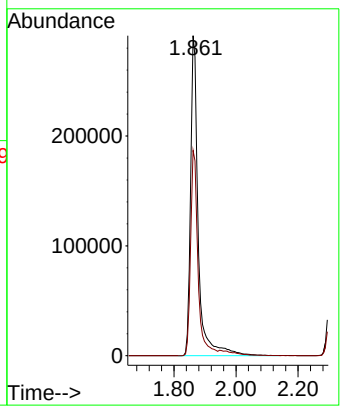


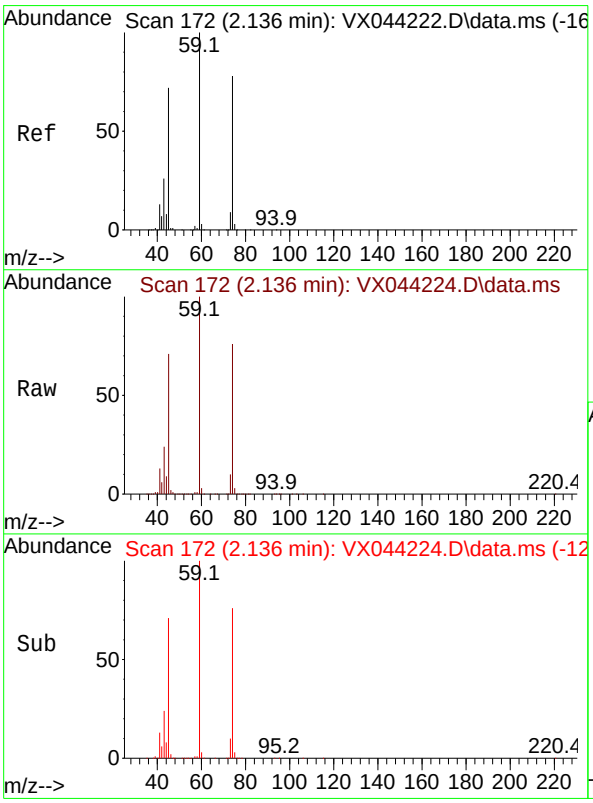
#7
Trichlorofluoromethane
Concen: 140.645 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 500315

Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.8	77.8

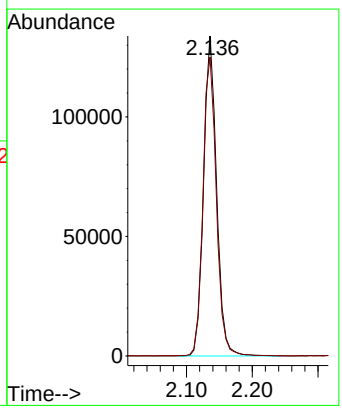


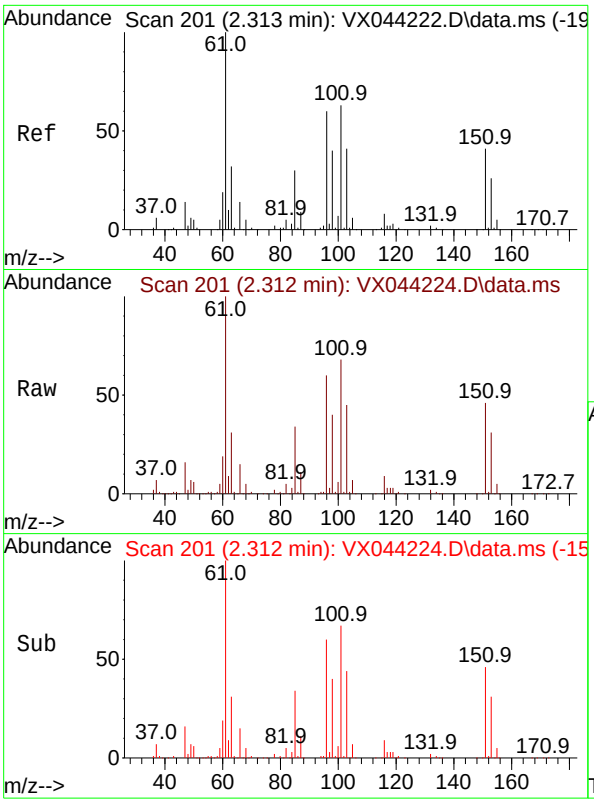


#8
Diethyl Ether
Concen: 151.407 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 74 Resp: 183845

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.4	145.0



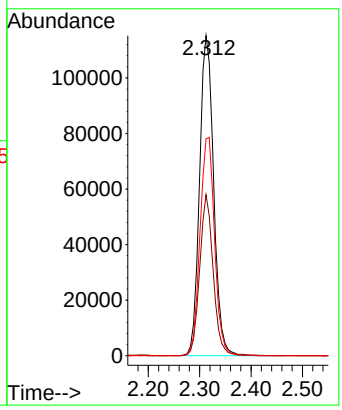


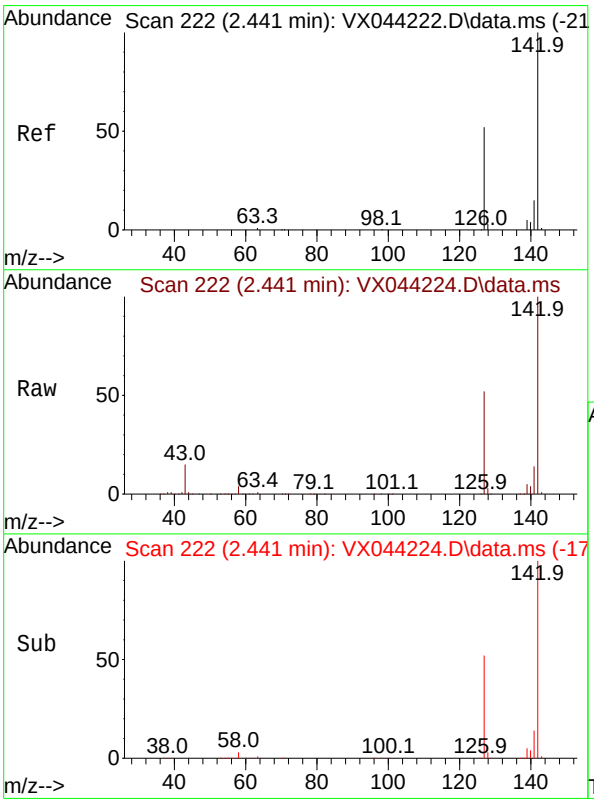
#9
1,1,2-Trichlorotrifluoroethane
Concen: 152.497 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 219513

Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.5	57.7
151	70.5	55.8	83.6

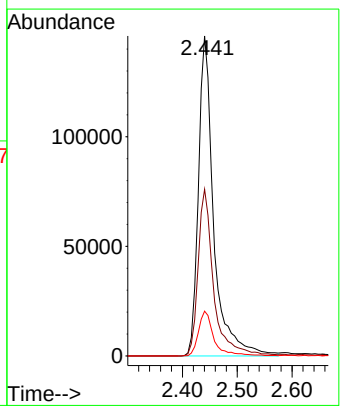


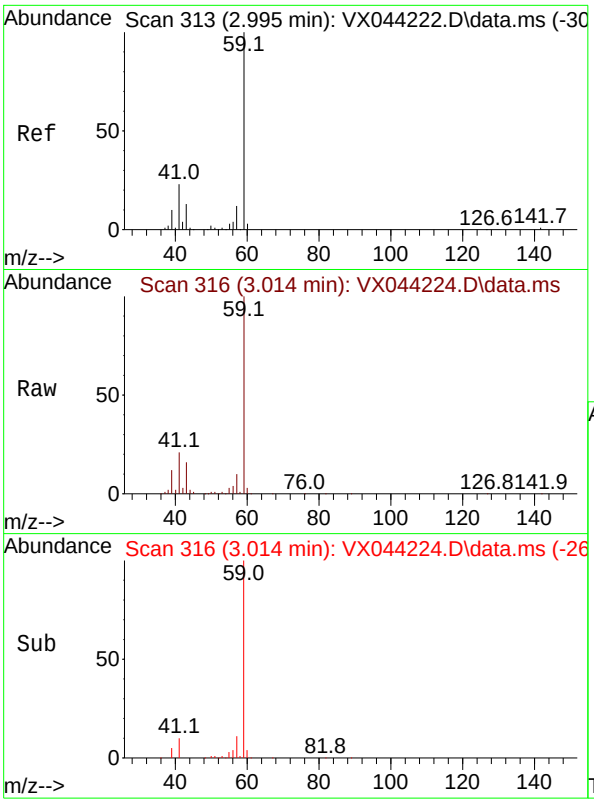


#10
Methyl Iodide
Concen: 149.795 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:142 Resp: 284184

Ion	Ratio	Lower	Upper
142	100		
127	52.8	41.8	62.8
141	14.2	11.5	17.3



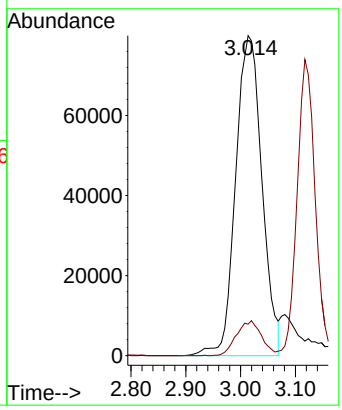


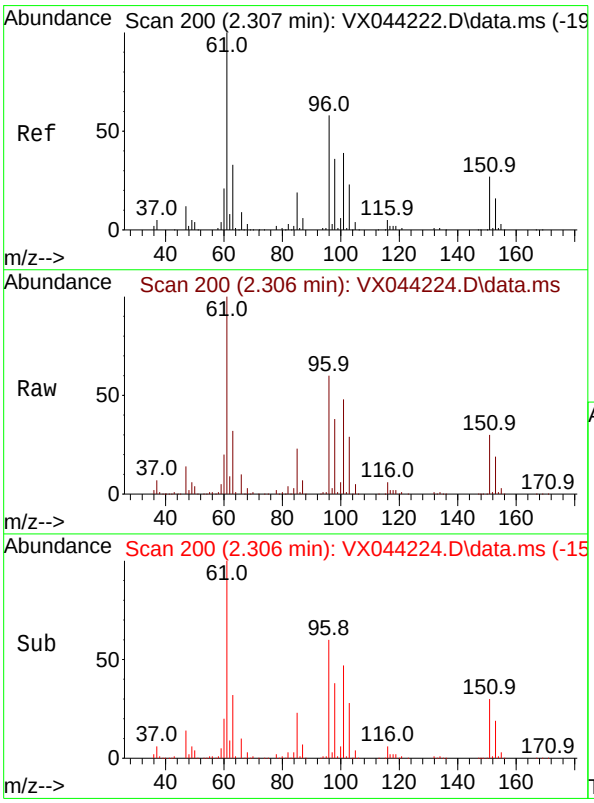
#11
Tert butyl alcohol
Concen: 916.880 ug/l
RT: 3.014 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 266830

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.8	13.2

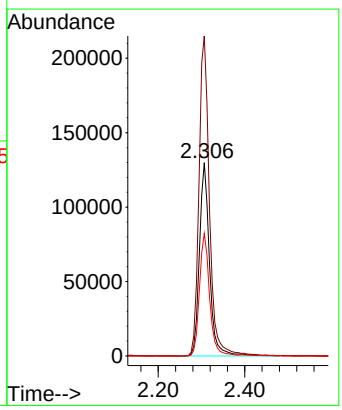


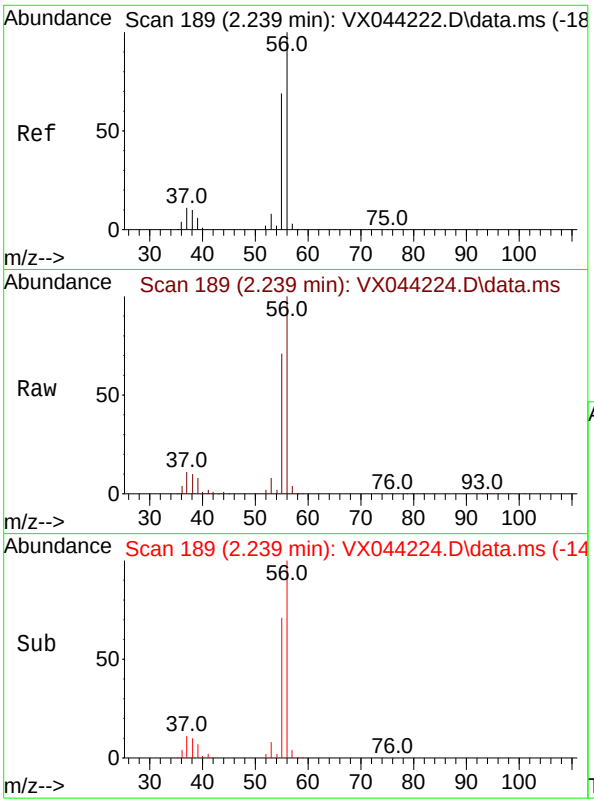


#12
1,1-Dichloroethene
Concen: 159.600 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 96 Resp: 211016

Ion	Ratio	Lower	Upper
96	100		
61	165.6	138.0	207.0
98	63.5	50.0	75.0



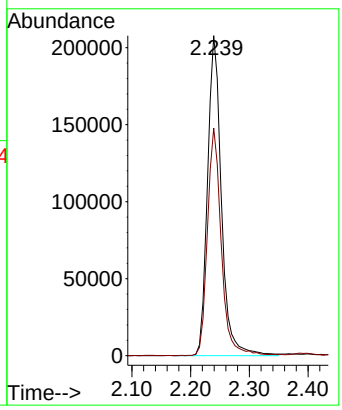


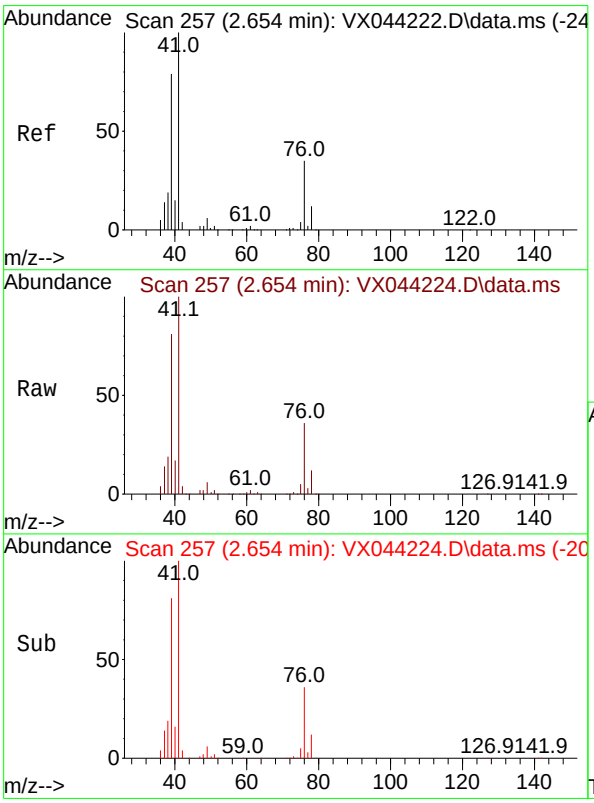
#13
Acrolein
Concen: 809.350 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 341487

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.6	84.8

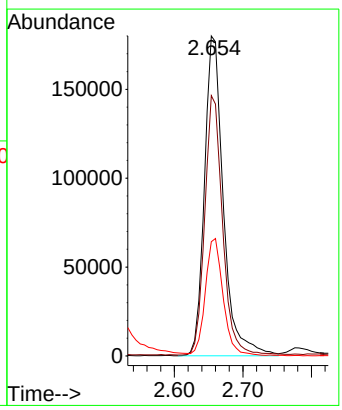


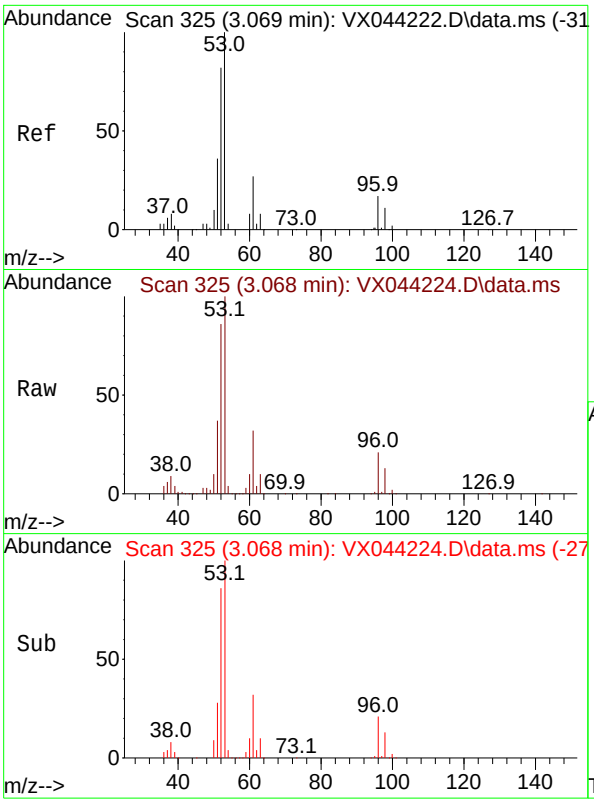


#14
Allyl chloride
Concen: 157.465 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 346773

Ion	Ratio	Lower	Upper
41	100		
39	76.1	61.9	92.9
76	34.5	27.4	41.2



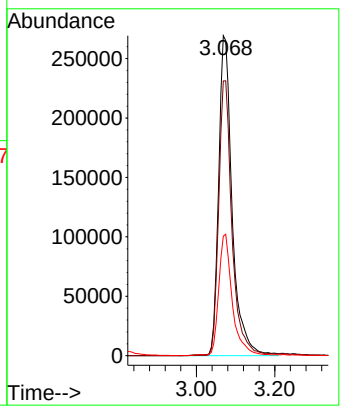


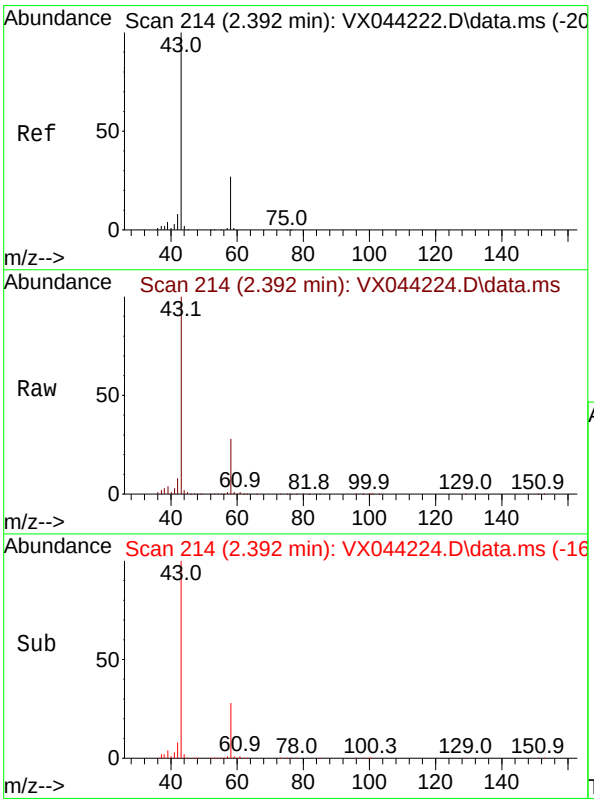
#15
Acrylonitrile
Concen: 804.774 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 649783

Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.0
51	37.0	30.3	45.5

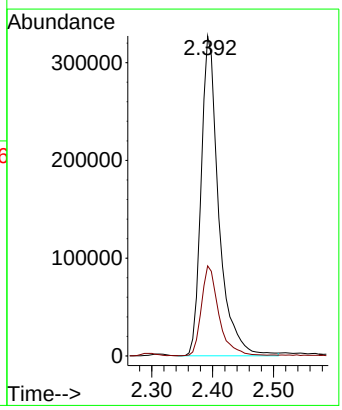


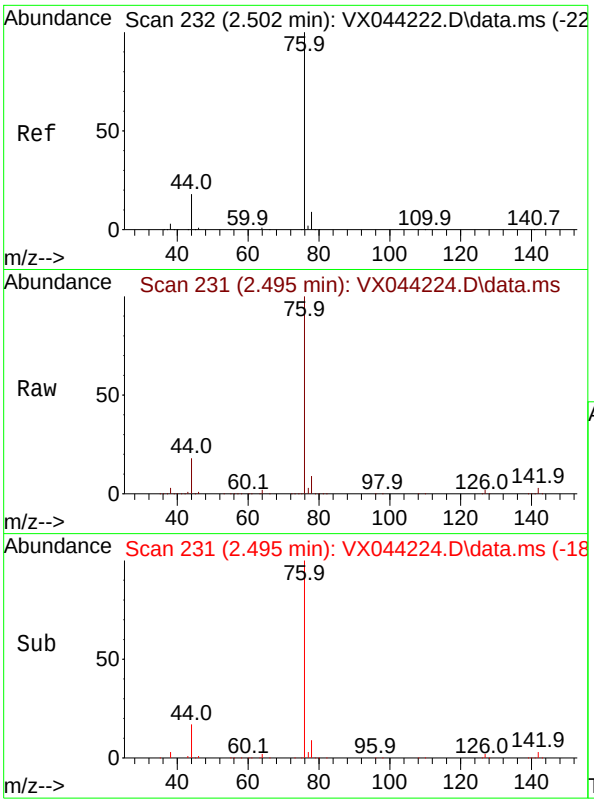


#16
Acetone
Concen: 780.537 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 658120

Ion	Ratio	Lower	Upper
43	100		
58	28.1	21.6	32.4



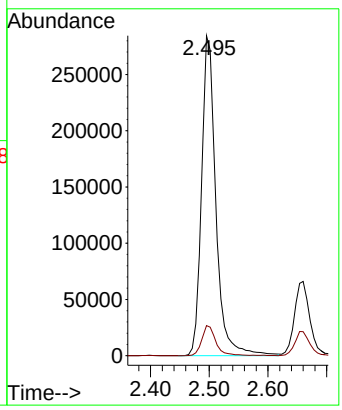


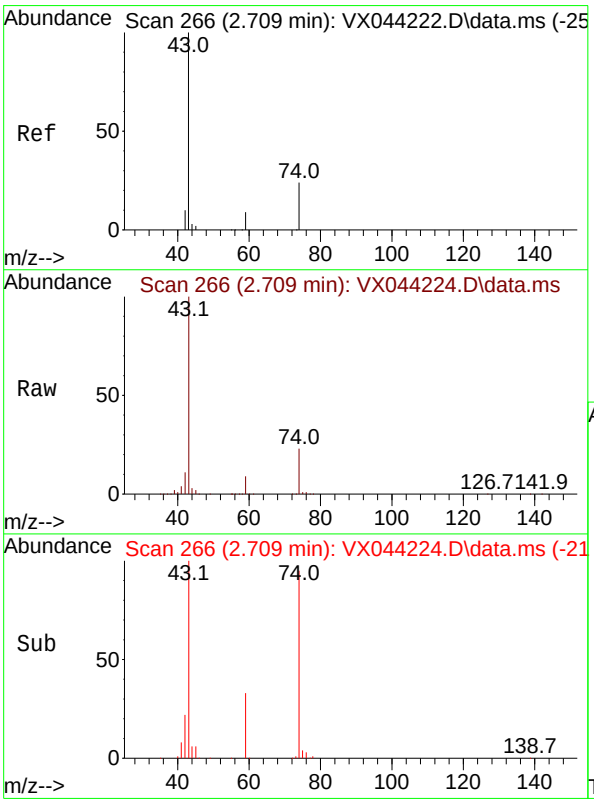
#17
Carbon Disulfide
Concen: 191.754 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 481926

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

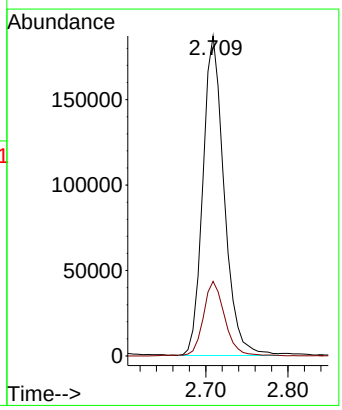


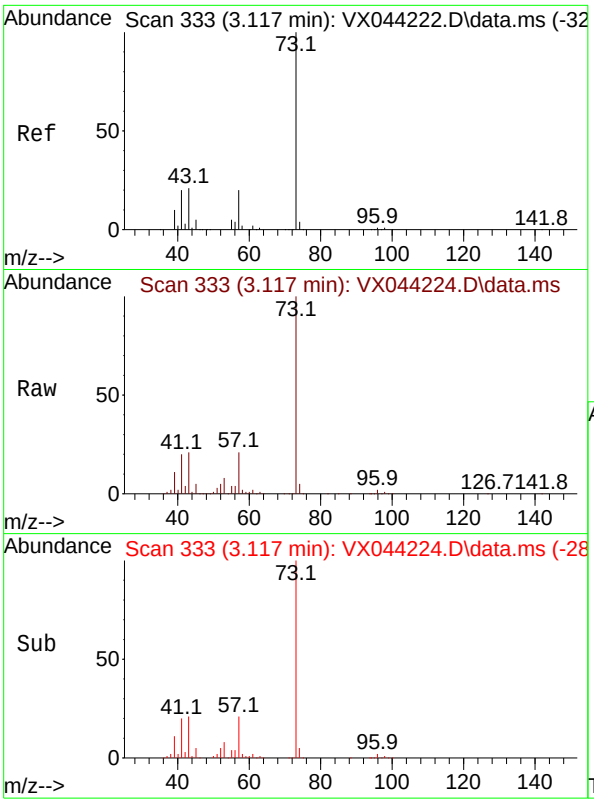


#18
Methyl Acetate
Concen: 154.792 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 336516

Ion	Ratio	Lower	Upper
43	100		
74	23.7	17.7	26.5



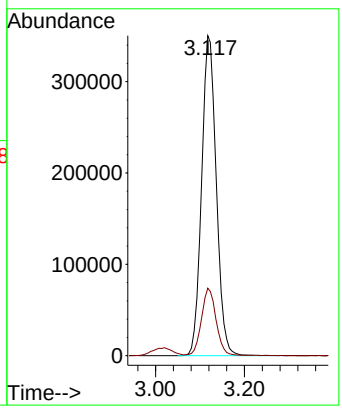


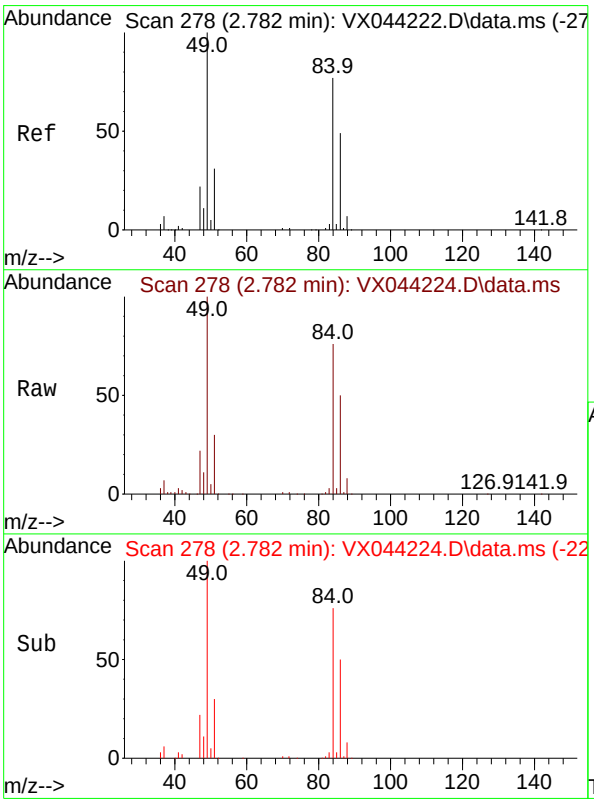
#19
Methyl tert-butyl Ether
Concen: 156.286 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 806360

Ion	Ratio	Lower	Upper
73	100		
57	21.1	16.2	24.4

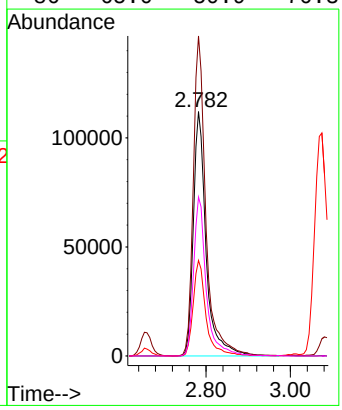


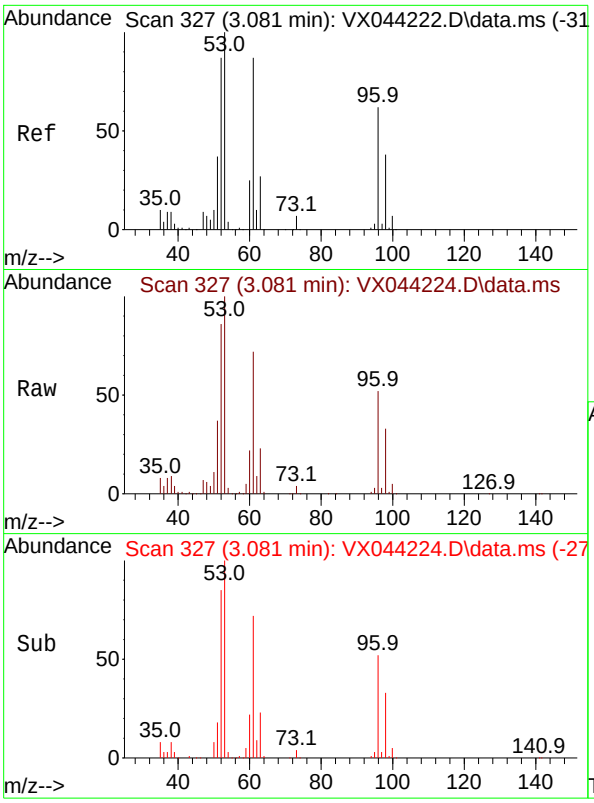


#20
Methylene Chloride
Concen: 149.282 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 84 Resp: 236412

Ion	Ratio	Lower	Upper
84	100		
49	130.9	104.2	156.4
51	39.1	32.2	48.4
86	65.0	50.9	76.3



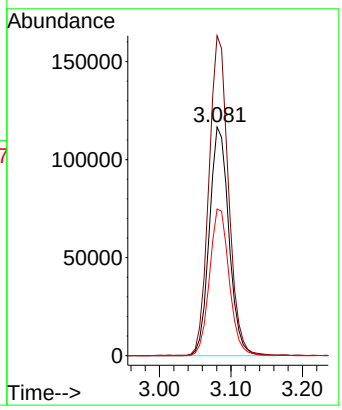


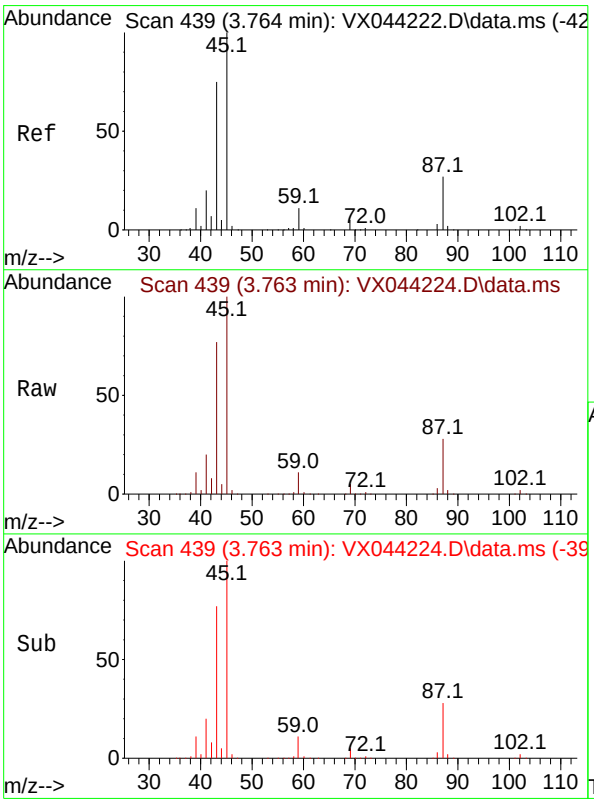
#21
trans-1,2-Dichloroethene
Concen: 157.719 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 221622

Ion	Ratio	Lower	Upper
96	100		
61	139.7	112.0	168.0
98	64.2	48.8	73.2

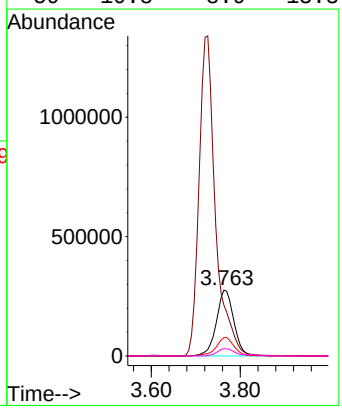


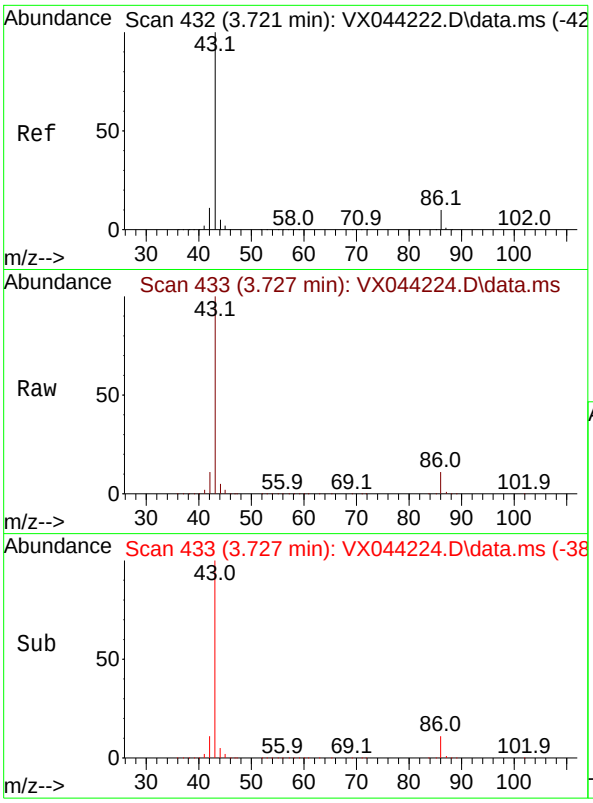


#22
Diisopropyl ether
Concen: 151.500 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 45 Resp: 751292

Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.0	21.2	31.8
59	10.8	8.9	13.3



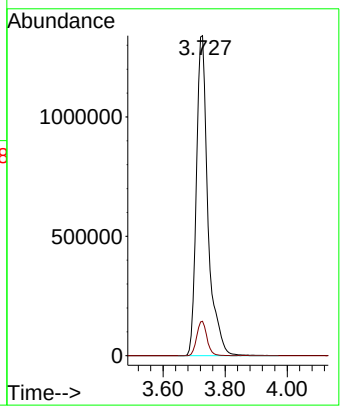


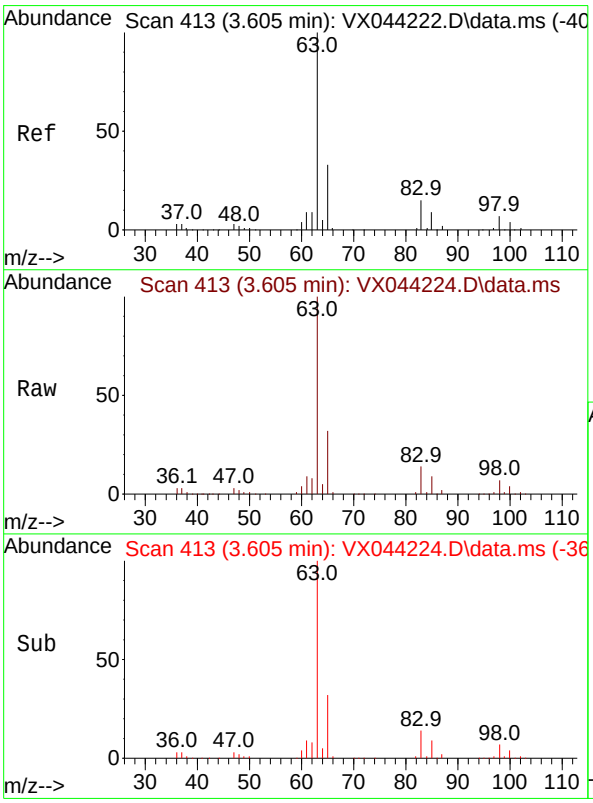
#23
Vinyl Acetate
Concen: 859.417 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 3464902

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2

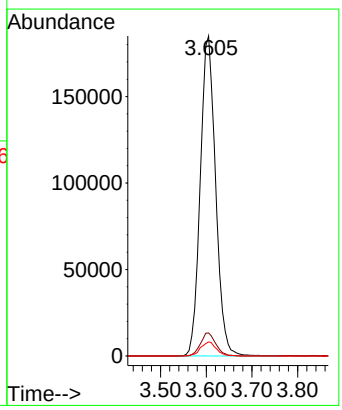


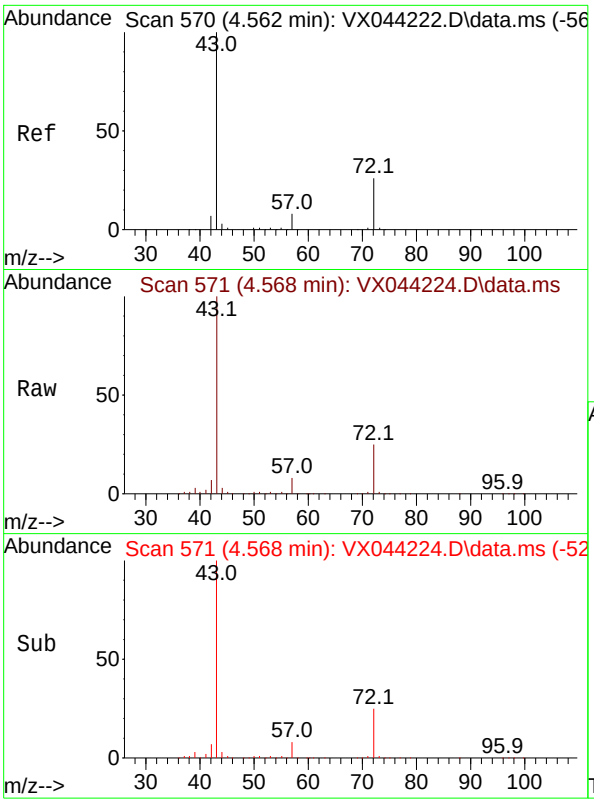


#24
1,1-Dichloroethane
Concen: 155.921 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 431006

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.4	2.1	6.3



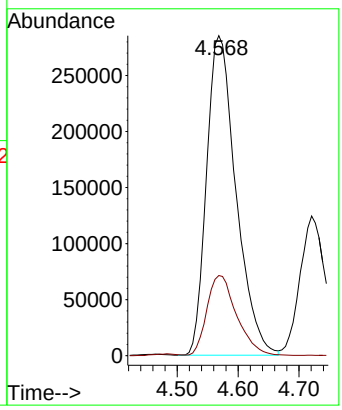


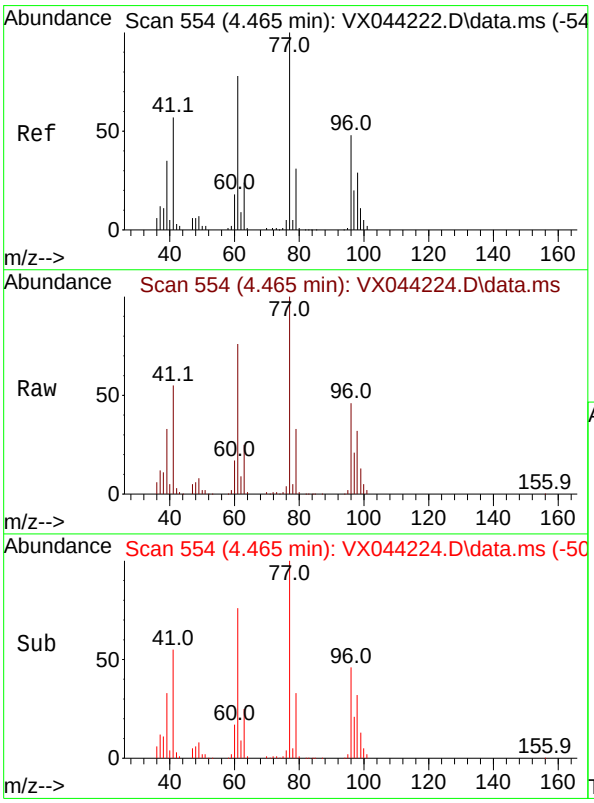
#25
2-Butanone
Concen: 798.973 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 957709

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.2	30.4

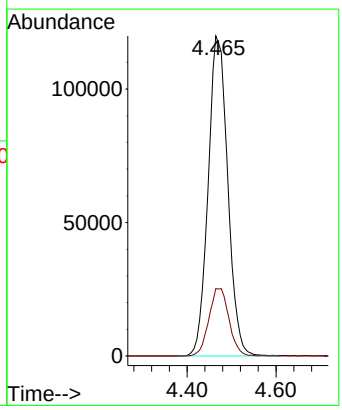


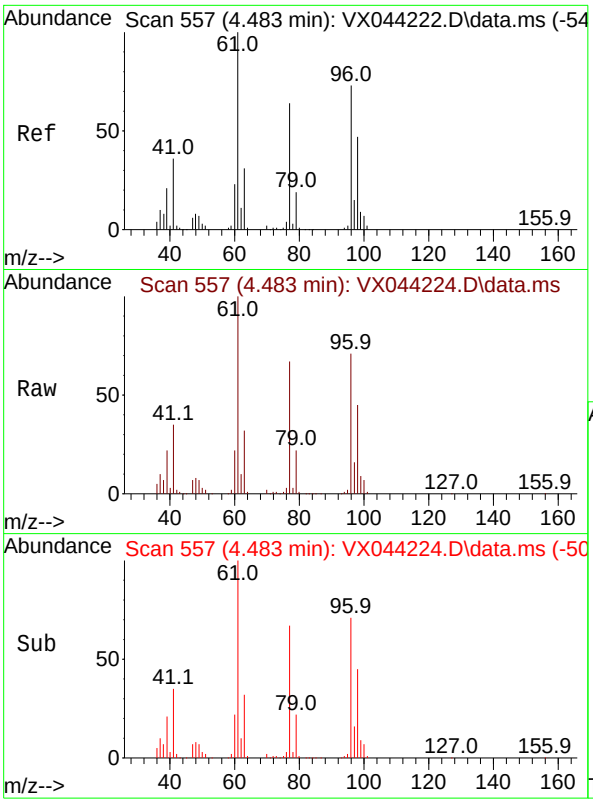


#26
2,2-Dichloropropane
Concen: 163.773 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 77 Resp: 367781

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.7	32.1



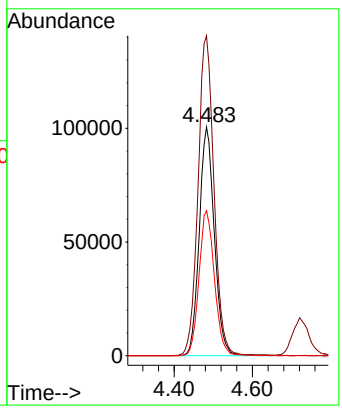


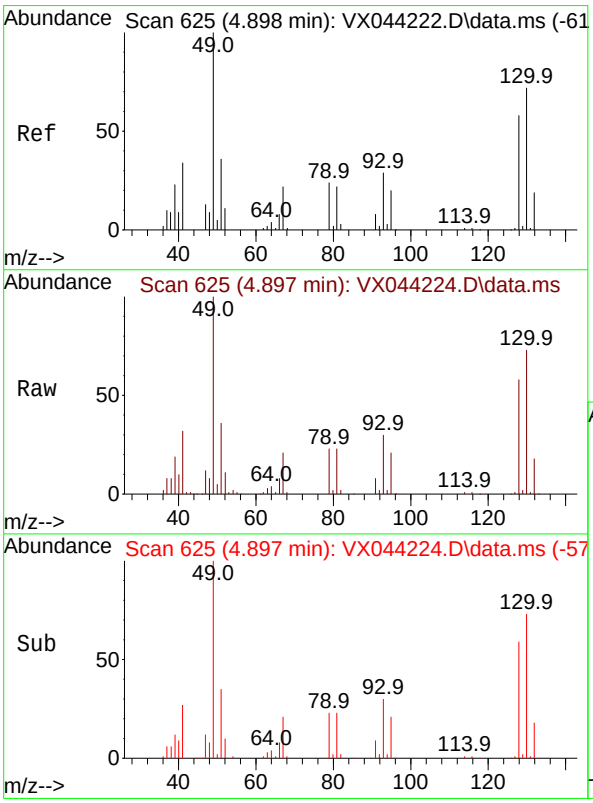
#27
cis-1,2-Dichloroethene
Concen: 151.131 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 269708

Ion	Ratio	Lower	Upper
96	100		
61	147.2	0.0	299.0
98	64.7	0.0	129.0

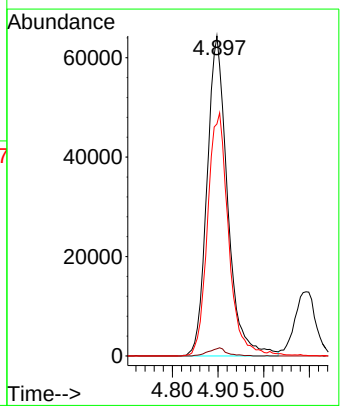


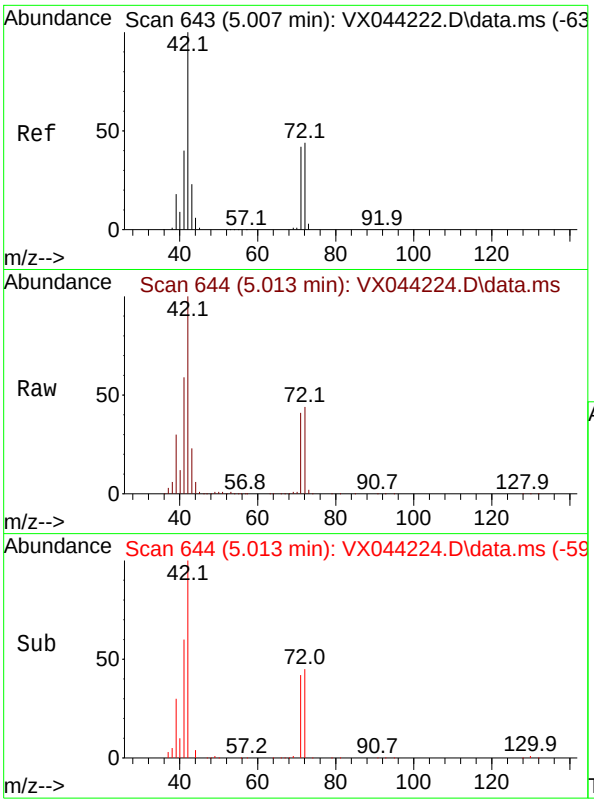


#28
Bromochloromethane
Concen: 148.269 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 49 Resp: 200978

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	77.2	62.1	93.1



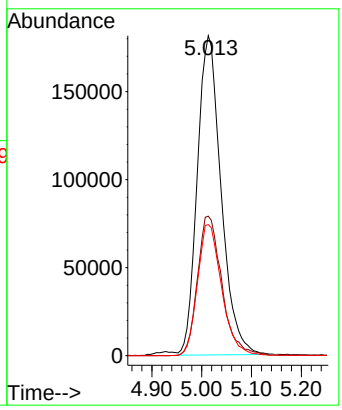


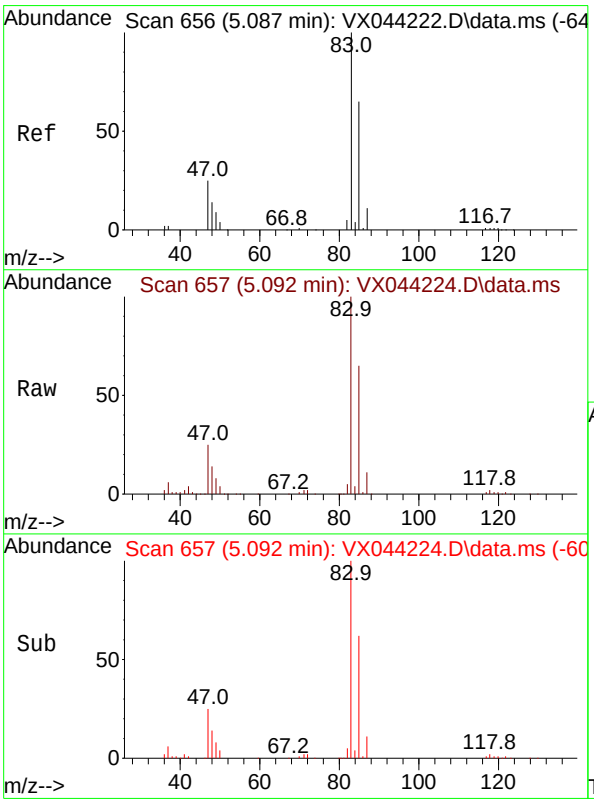
#29
Tetrahydrofuran
Concen: 782.561 ug/l
RT: 5.013 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 602095

Ion	Ratio	Lower	Upper
42	100		
72	44.8	37.0	55.6
71	41.7	33.6	50.4

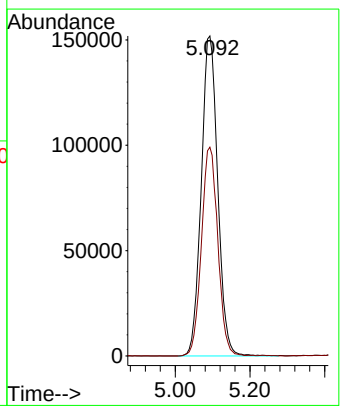


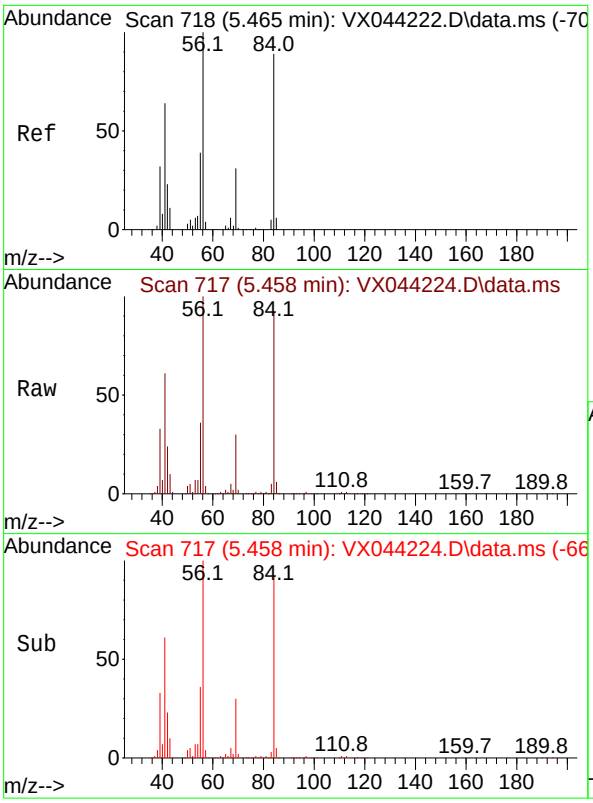


#30
Chloroform
Concen: 149.274 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 83 Resp: 463606

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.6	77.4



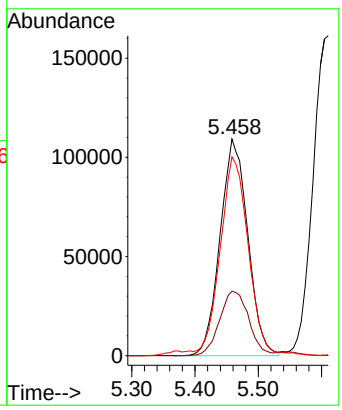


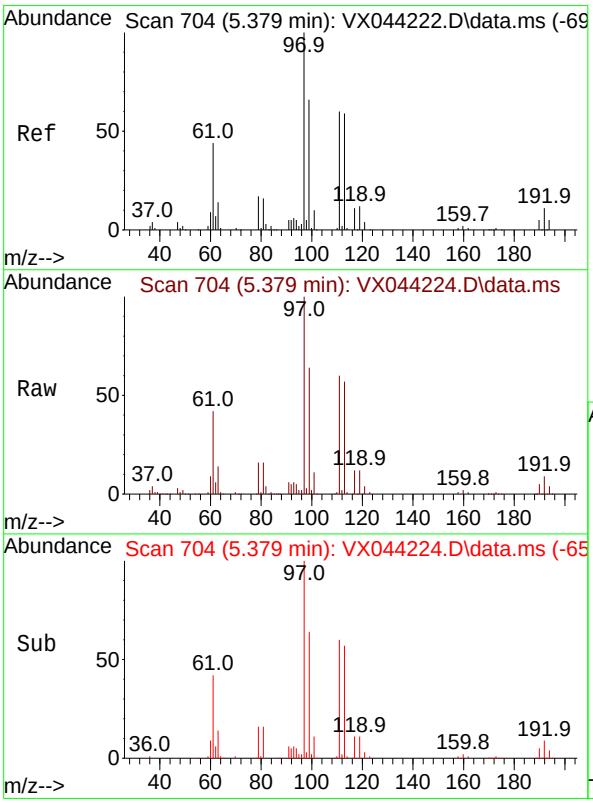
#31
Cyclohexane
Concen: 148.745 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 332026

Ion	Ratio	Lower	Upper
56	100		
69	29.8	24.7	37.1
84	90.1	71.0	106.6

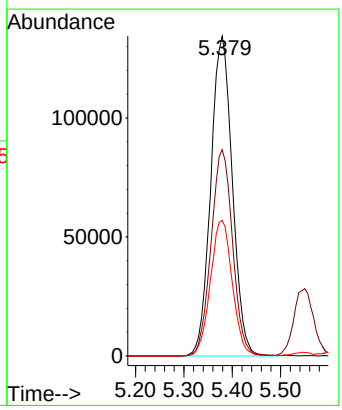


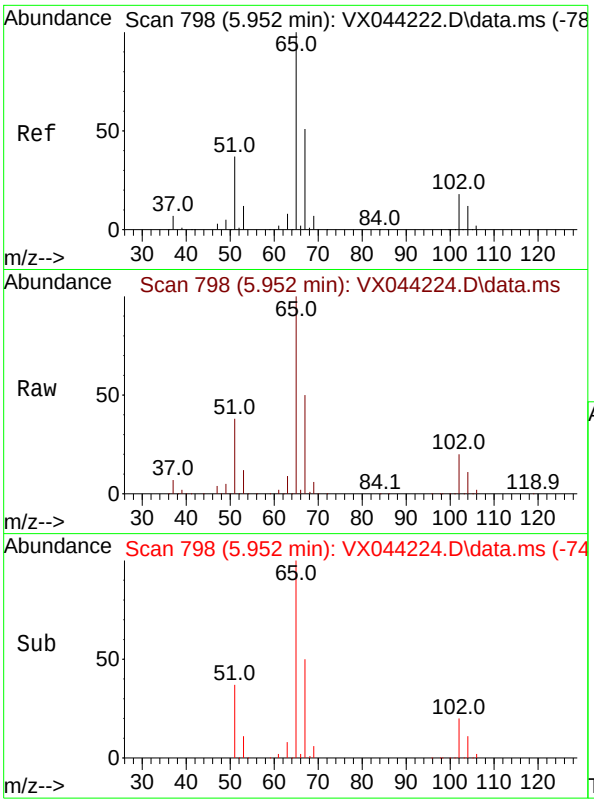


#32
1,1,1-Trichloroethane
Concen: 161.073 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 97 Resp: 415253

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	43.2	35.2	52.8



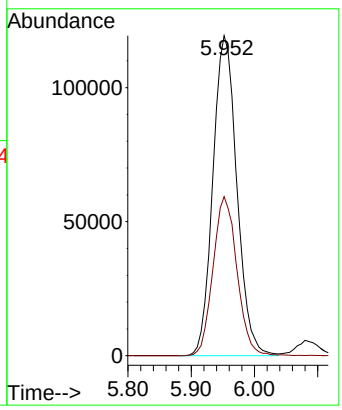


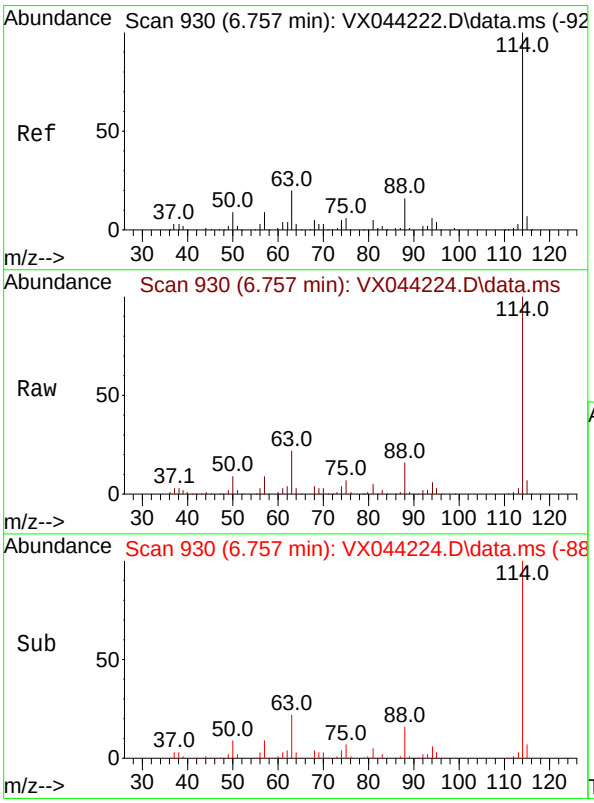
#33
1,2-Dichloroethane-d4
Concen: 151.956 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 314272

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	101.6

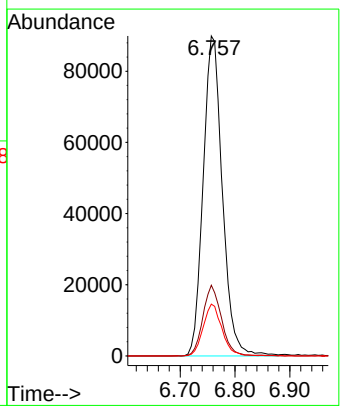


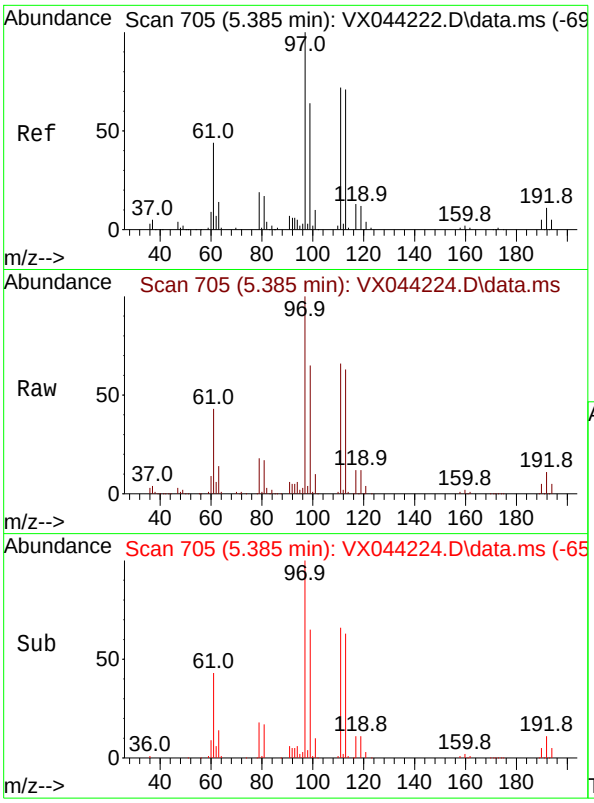


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:114 Resp: 218610

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.2	0.0	31.8



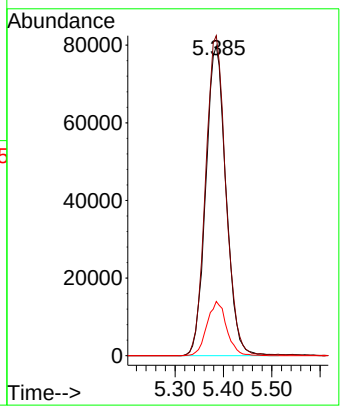


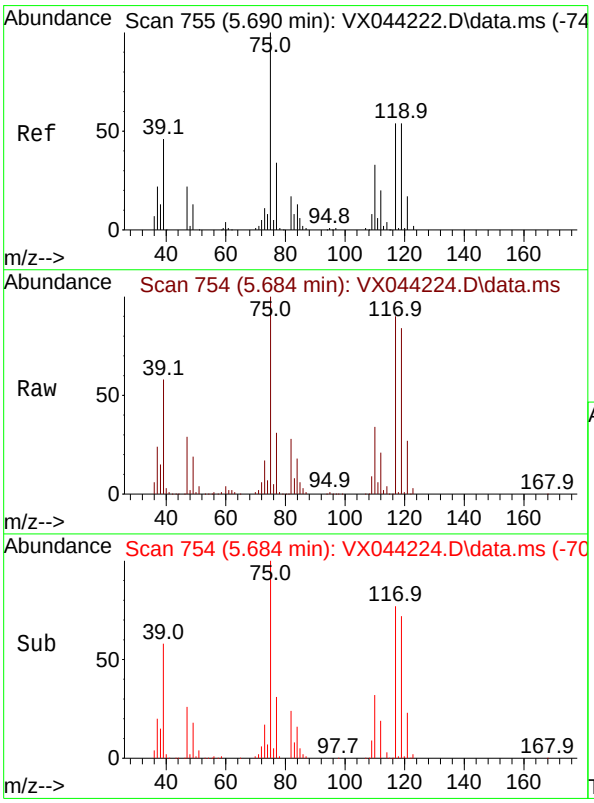
#35
Dibromofluoromethane
Concen: 153.188 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 231937

Ion	Ratio	Lower	Upper
113	100		
111	103.1	80.4	120.6
192	17.0	13.3	19.9

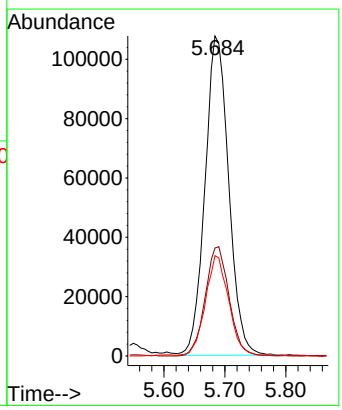


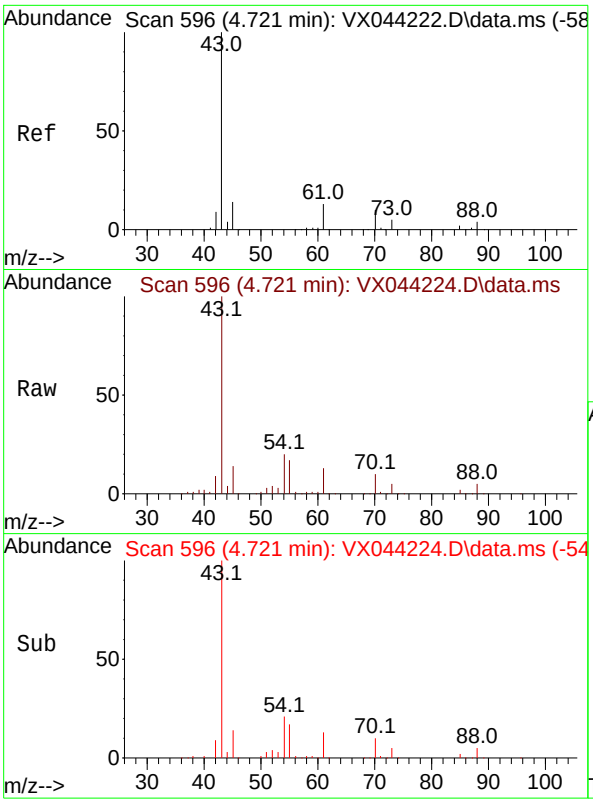


#36
1,1-Dichloropropene
Concen: 148.642 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 290913

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.3	51.7
77	31.1	25.4	38.0



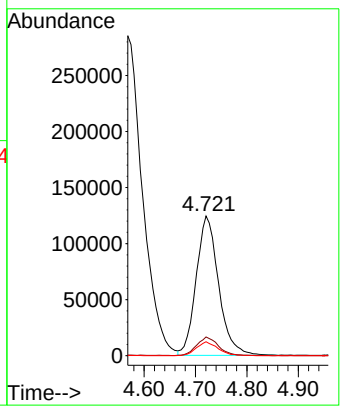


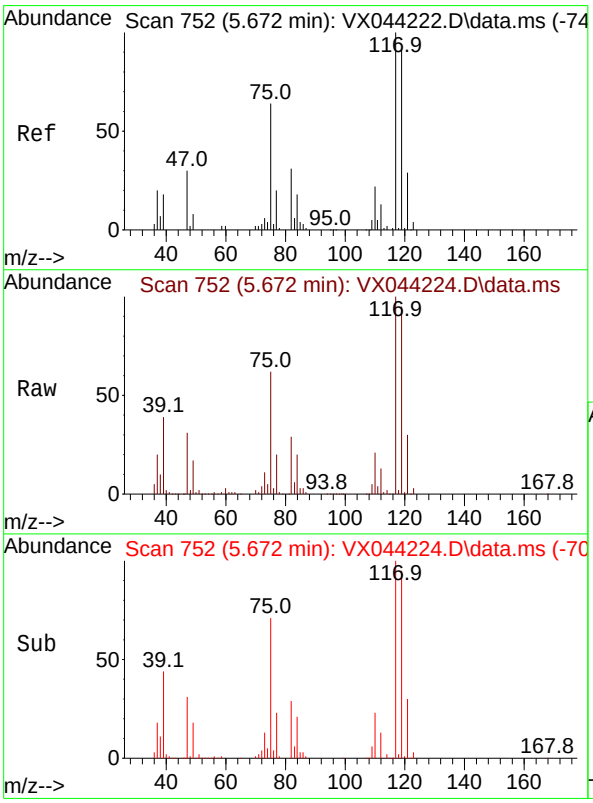
#37
Ethyl Acetate
Concen: 155.731 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 376757

Ion	Ratio	Lower	Upper
43	100		
61	13.2	9.8	14.8
70	9.6	7.7	11.5

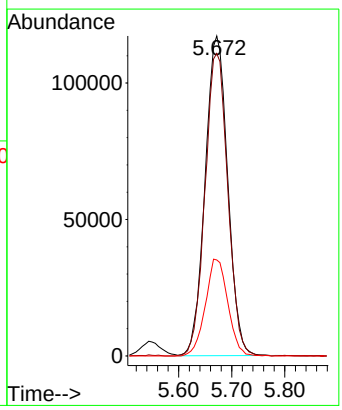


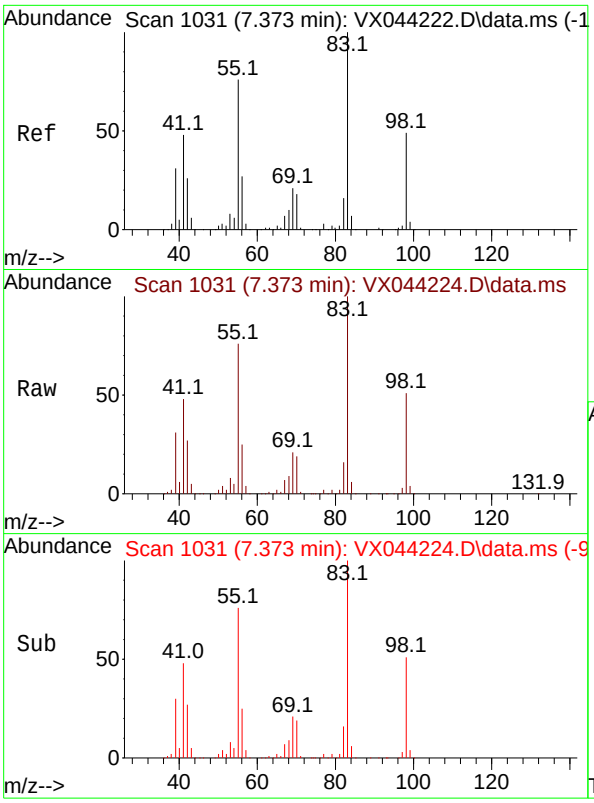


#38
Carbon Tetrachloride
Concen: 164.587 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 346795

Ion	Ratio	Lower	Upper
117	100		
119	94.6	74.2	111.4
121	30.1	23.0	34.6



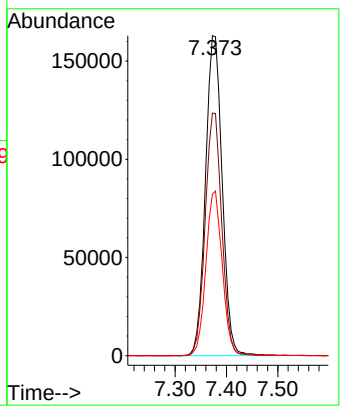


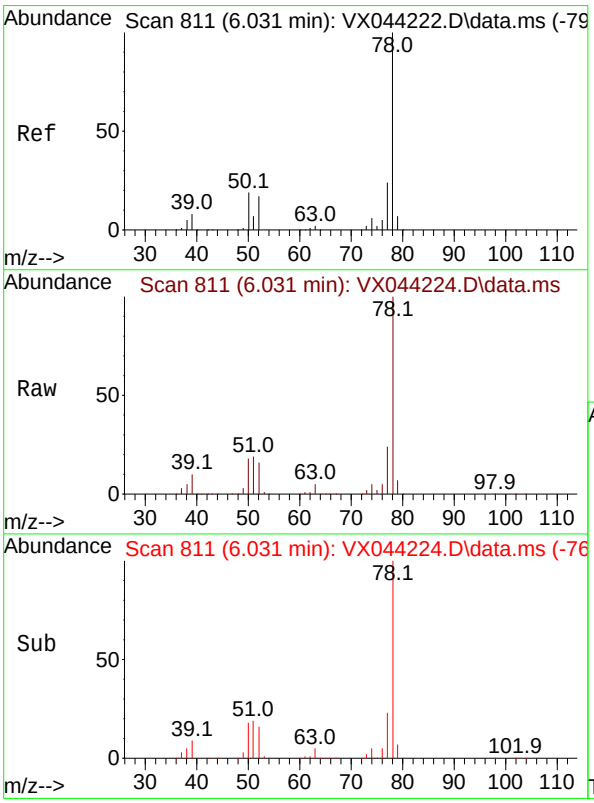
#39
Methylcyclohexane
Concen: 157.516 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 368542

Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.7	91.1
98	50.5	38.9	58.3

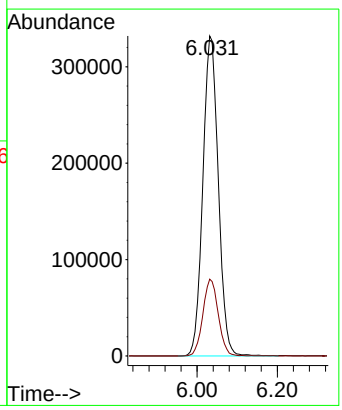


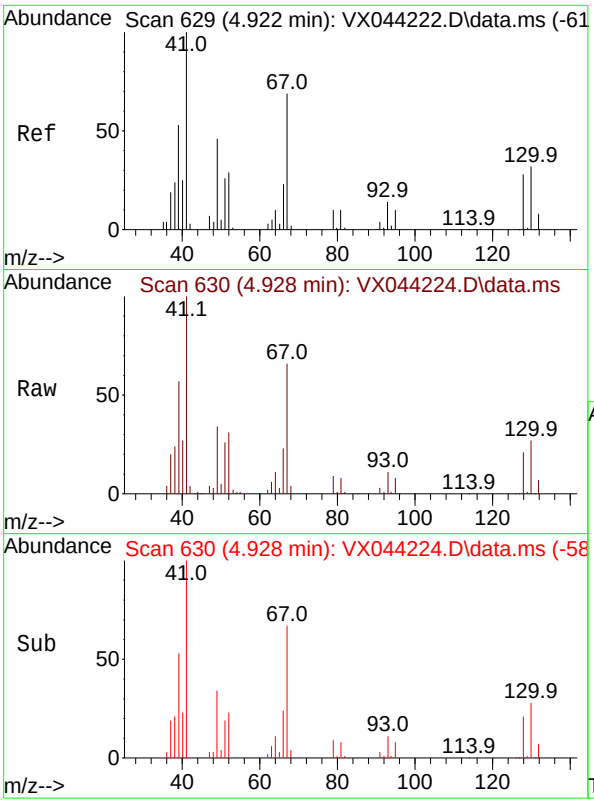


#40
Benzene
Concen: 149.340 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 78 Resp: 887413

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.3	28.9



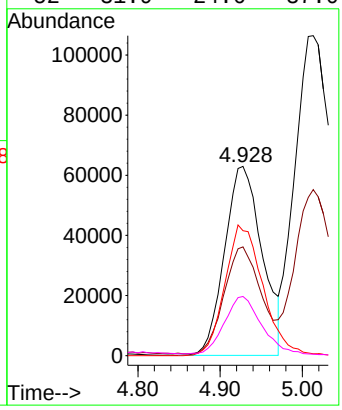


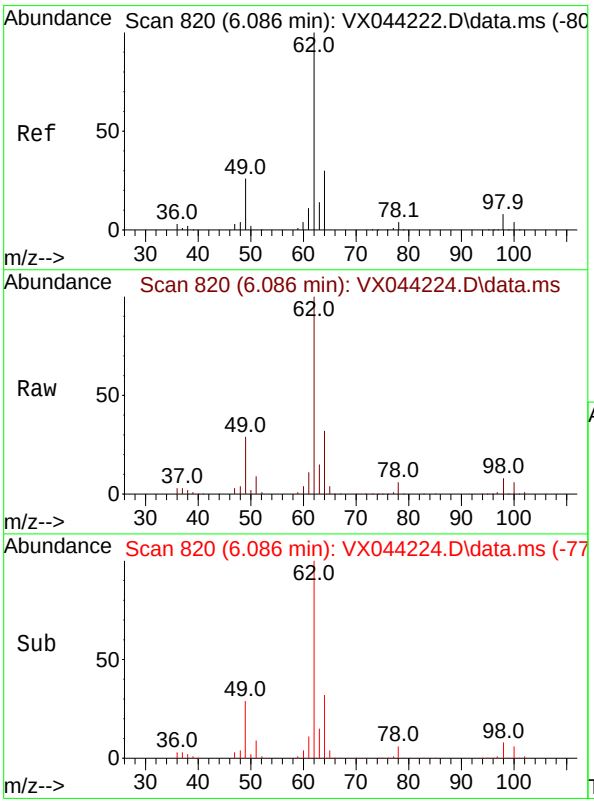
#41
Methacrylonitrile
Concen: 155.569 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 199851

Ion	Ratio	Lower	Upper
41	100		
39	54.5	44.2	66.4
67	70.2	57.2	85.8
52	31.9	24.6	37.0

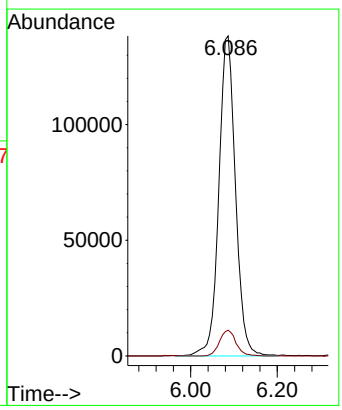


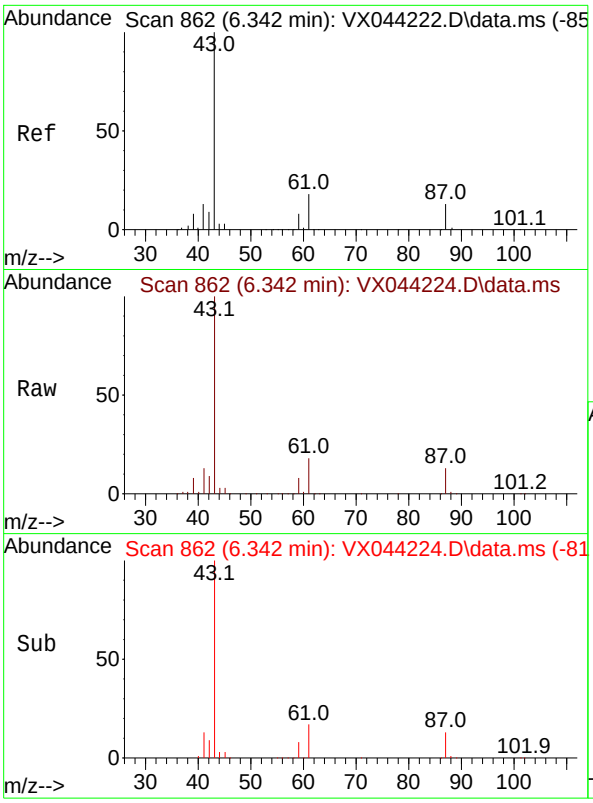


#42
1,2-Dichloroethane
Concen: 151.105 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 62 Resp: 369874

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.8



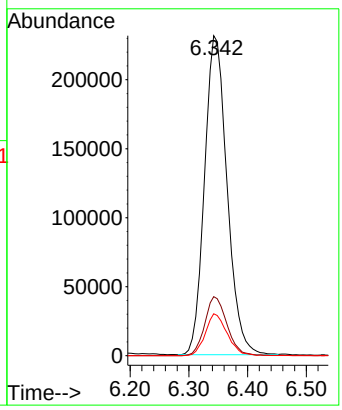


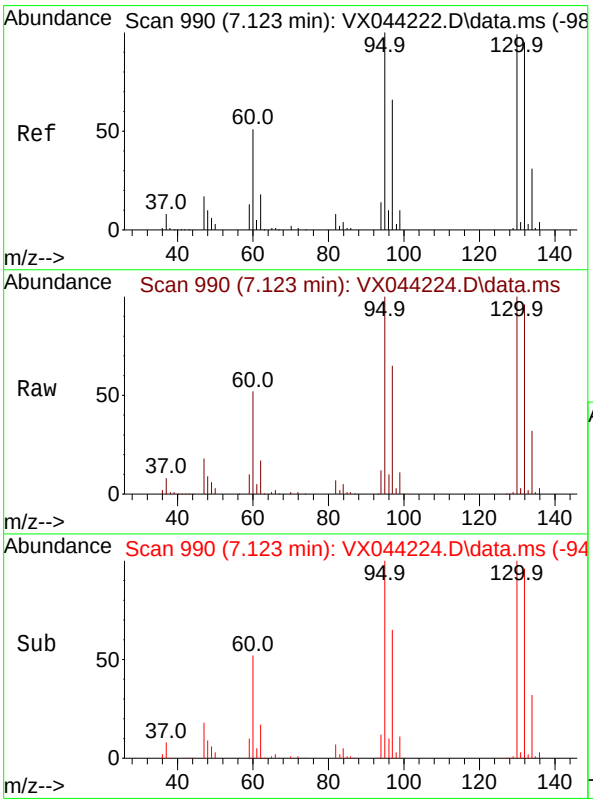
#43
Isopropyl Acetate
Concen: 163.200 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 617107

Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.2	21.2
87	12.8	10.2	15.2

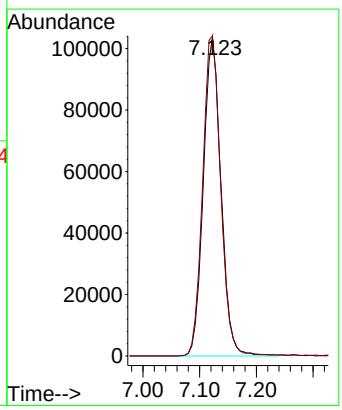


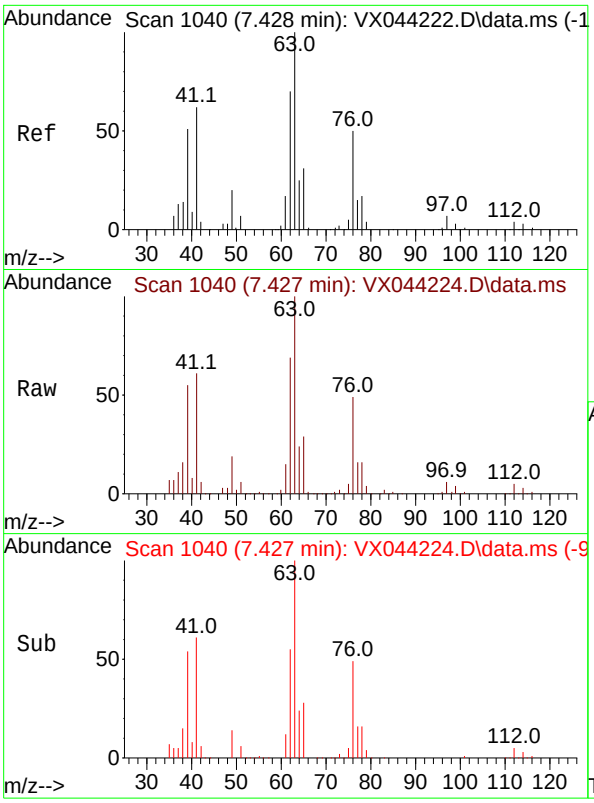


#44
Trichloroethene
Concen: 151.275 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:130 Resp: 224164

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	201.4



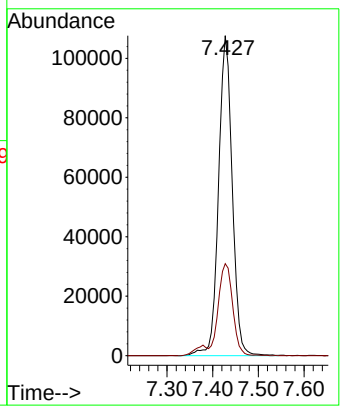


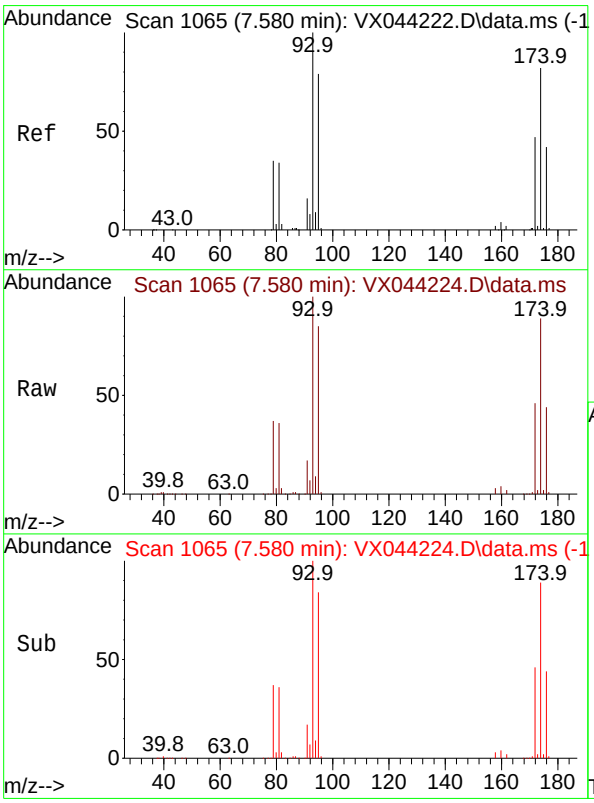
#45
1,2-Dichloropropane
Concen: 147.697 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 224224

Ion	Ratio	Lower	Upper
63	100		
65	28.8	24.6	37.0

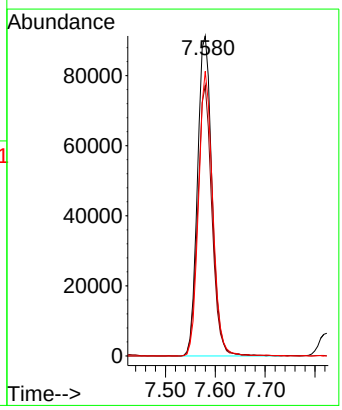


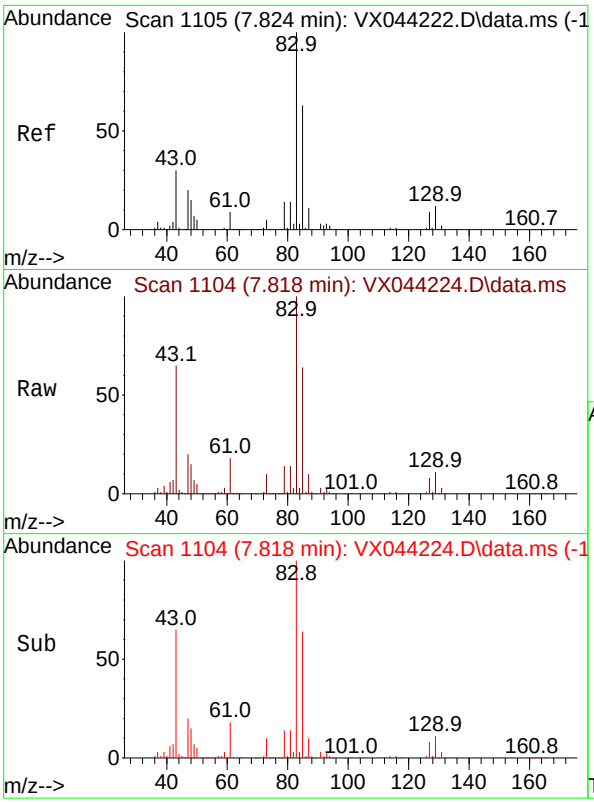


#46
Dibromomethane
Concen: 156.728 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 93 Resp: 184590

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.4	98.2
174	86.7	67.9	101.9



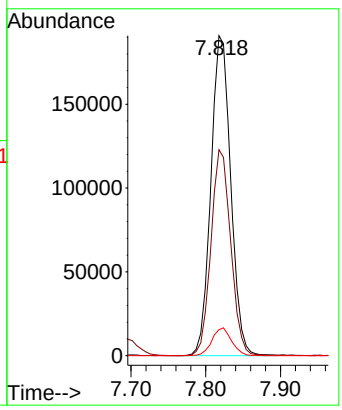


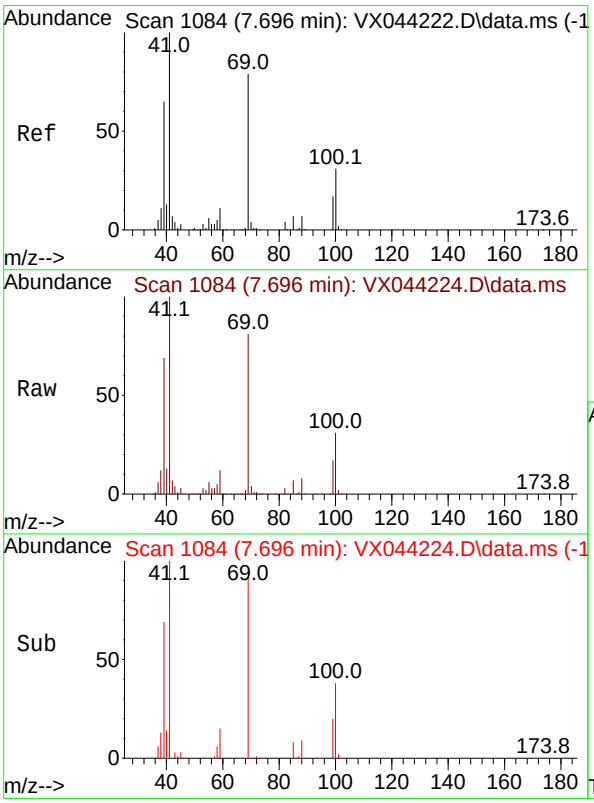
#47
Bromodichloromethane
Concen: 173.496 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 352904

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.6	75.8
127	8.1	7.3	10.9

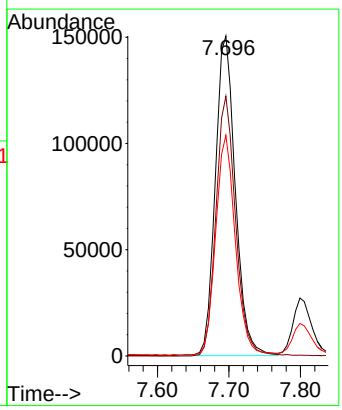


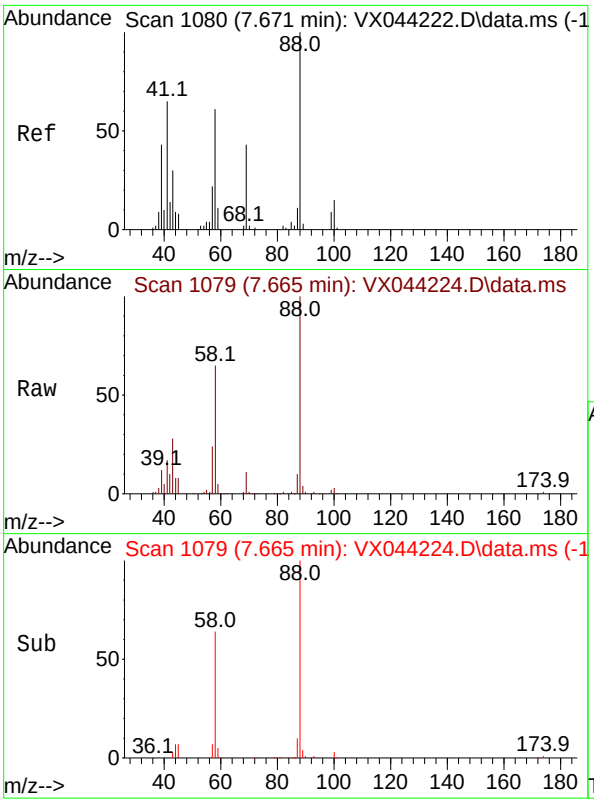


#48
Methyl methacrylate
Concen: 159.567 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 41 Resp: 292890

Ion	Ratio	Lower	Upper
41	100		
69	80.0	62.4	93.6
39	67.8	53.3	79.9



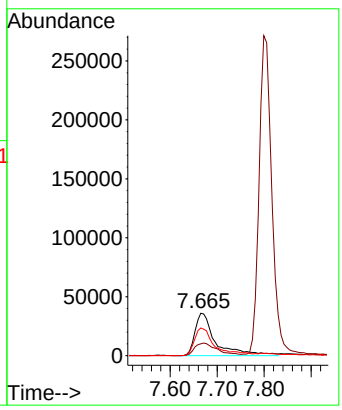


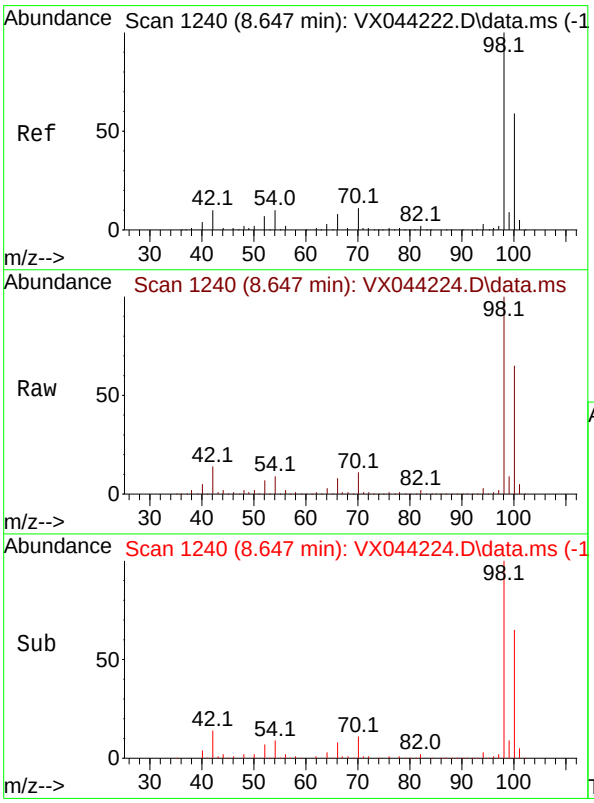
#49
1,4-Dioxane
Concen: 3539.235 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 111023

Ion	Ratio	Lower	Upper
88	100		
43	32.0	27.1	40.7
58	63.3	41.0	61.4#

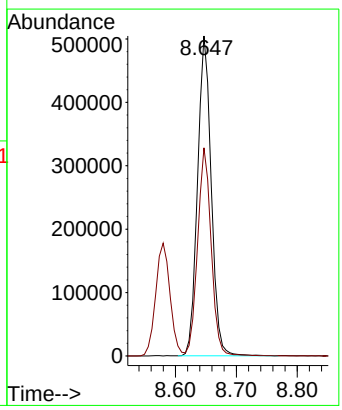


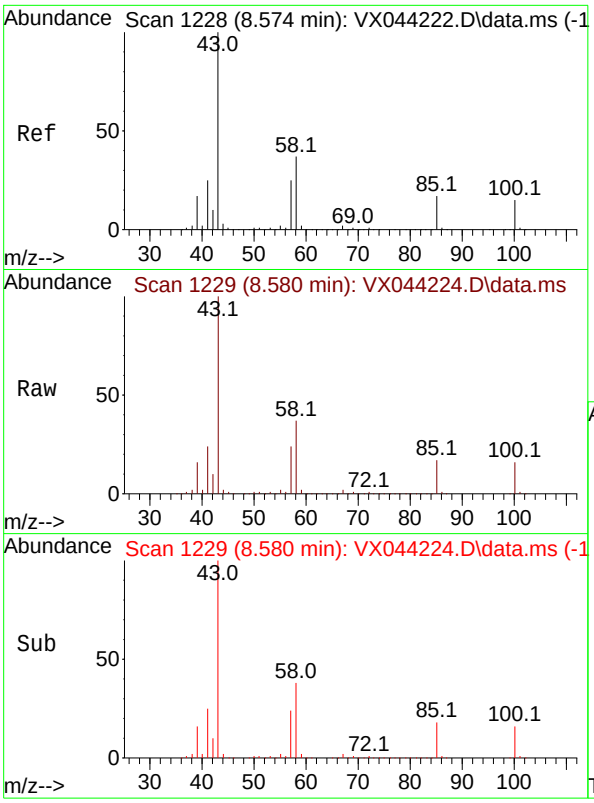


#50
Toluene-d8
Concen: 154.438 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 98 Resp: 788876

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3



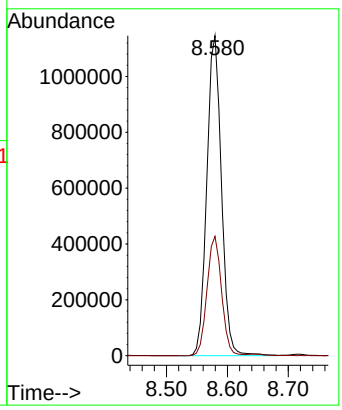


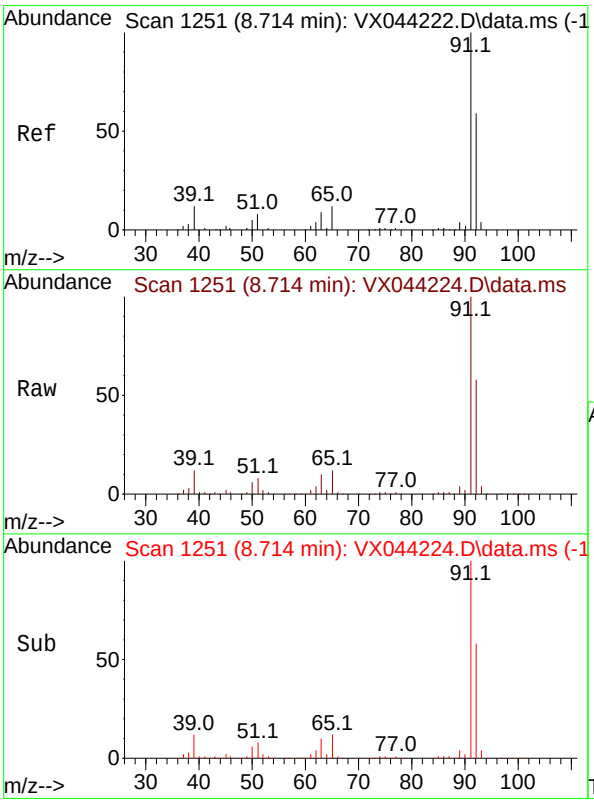
#51
4-Methyl-2-Pentanone
Concen: 784.573 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1907523

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.4	44.0

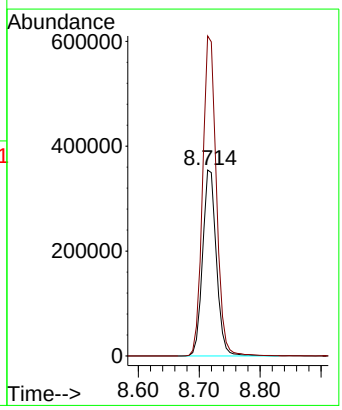


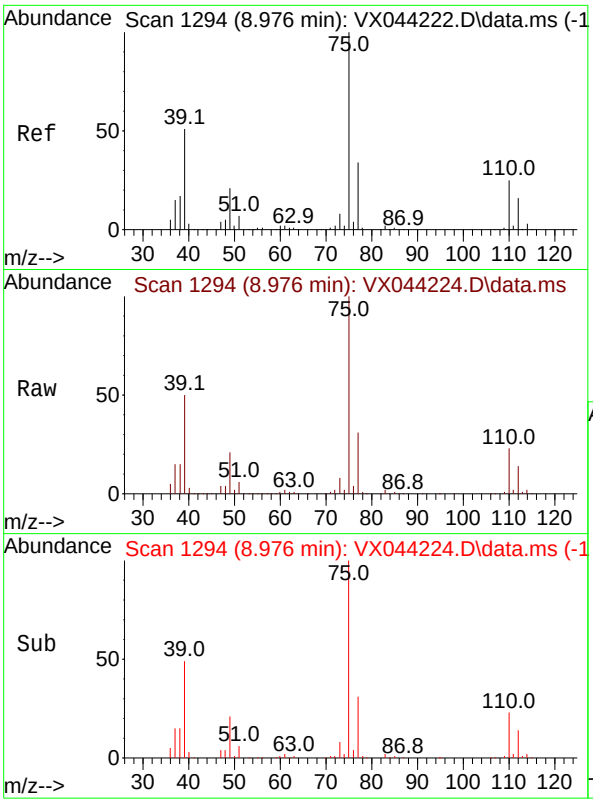


#52
Toluene
Concen: 149.294 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 92 Resp: 557102

Ion	Ratio	Lower	Upper
92	100		
91	172.4	137.0	205.6



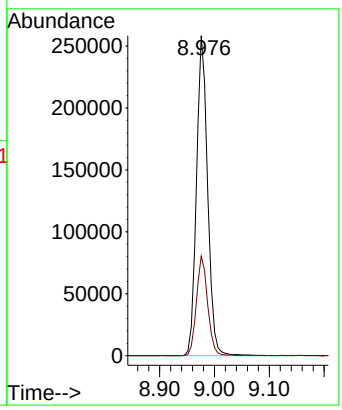


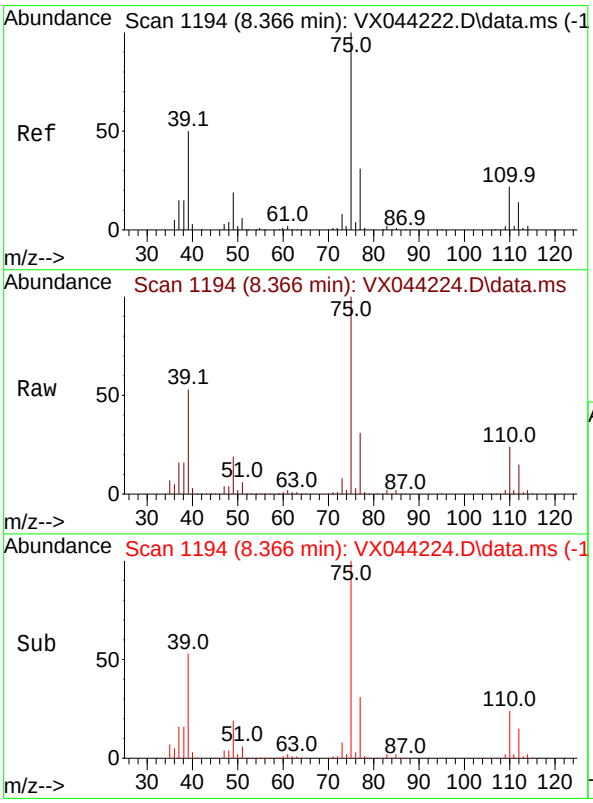
#53
t-1,3-Dichloropropene
Concen: 150.167 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 366275

Ion	Ratio	Lower	Upper
75	100		
77	31.1	27.2	40.8

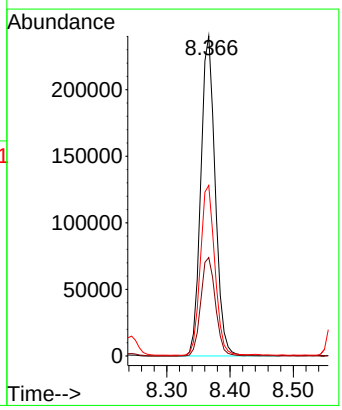


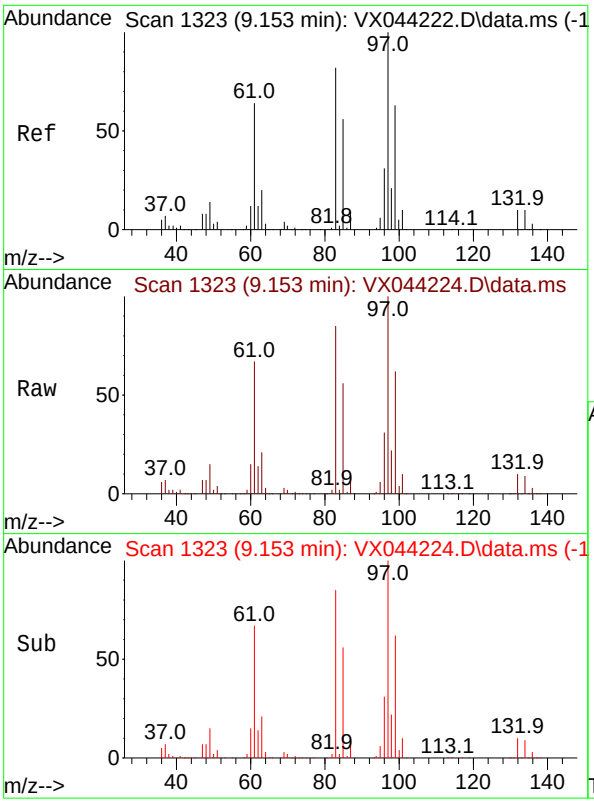


#54
cis-1,3-Dichloropropene
Concen: 172.581 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 382226

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.7	37.1
39	53.1	40.3	60.5



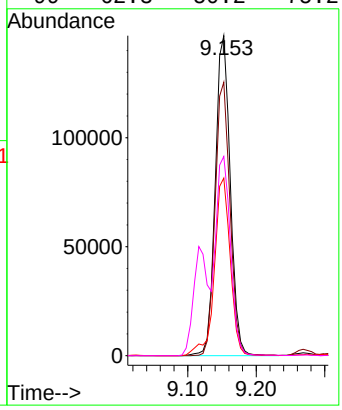


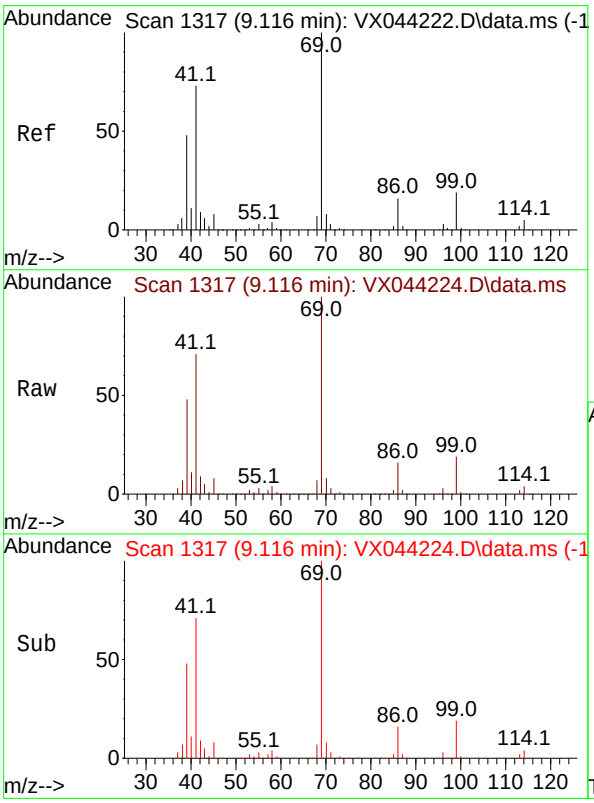
#55
1,1,2-Trichloroethane
Concen: 150.202 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 222665

Ion	Ratio	Lower	Upper
97	100		
83	85.5	65.3	97.9
85	55.5	44.6	67.0
99	62.3	50.2	75.2

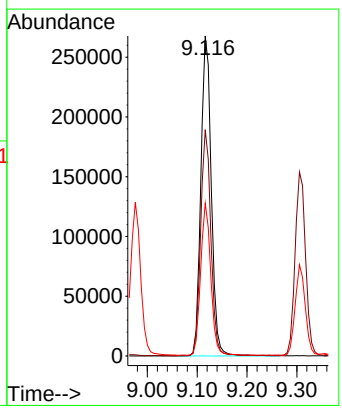


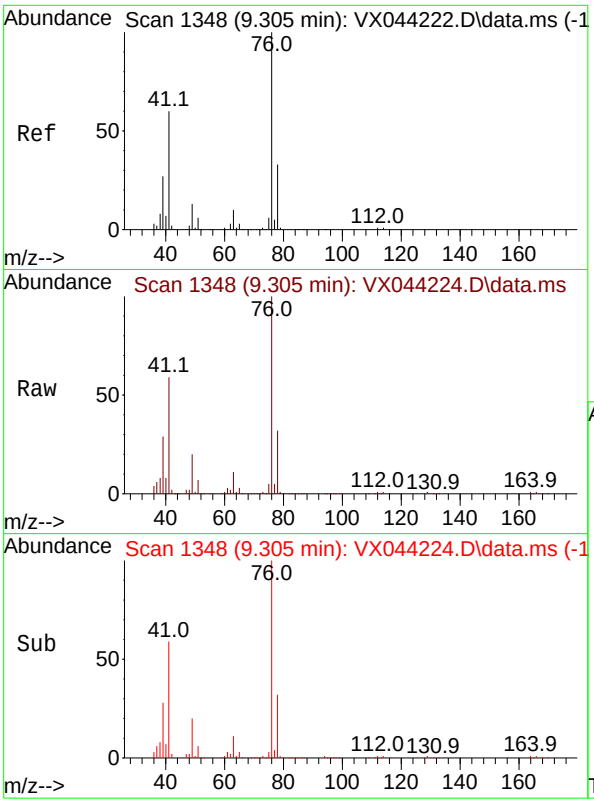


#56
Ethyl methacrylate
Concen: 166.289 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 69 Resp: 389165

Ion	Ratio	Lower	Upper
69	100		
41	69.4	56.6	85.0
39	46.2	37.4	56.0



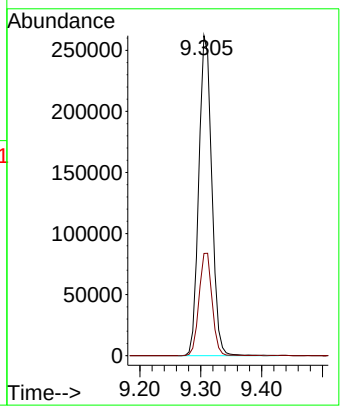


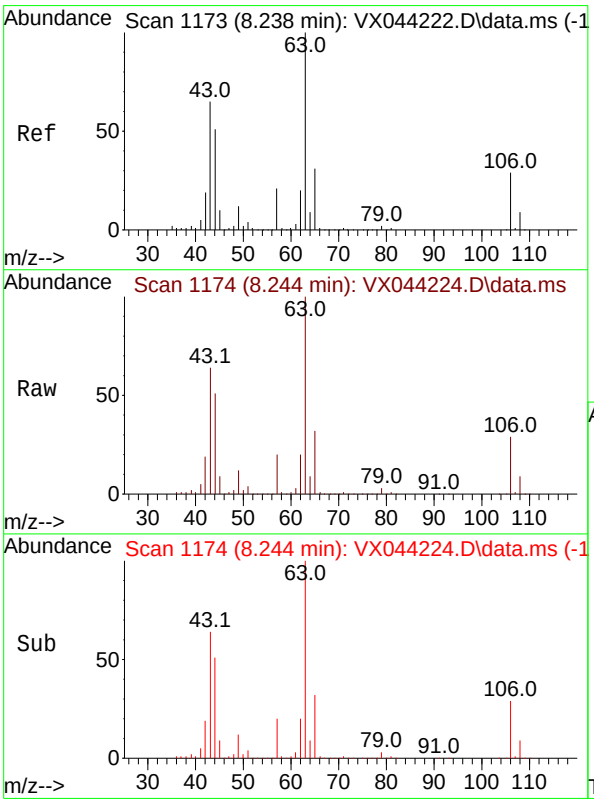
#57
1,3-Dichloropropane
Concen: 150.014 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 387086

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.5	39.7

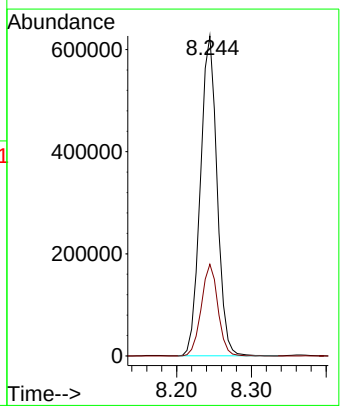


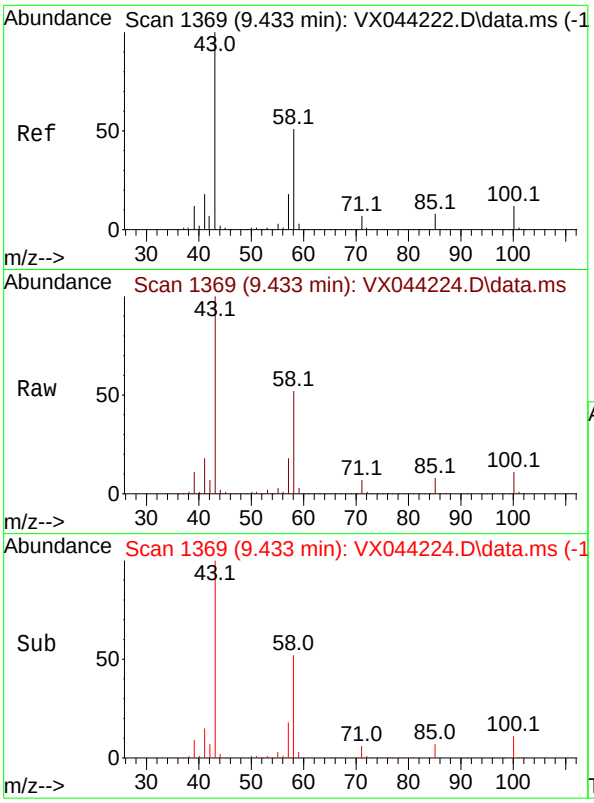


#58
2-Chloroethyl Vinyl ether
Concen: 822.575 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 63 Resp: 970949

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2



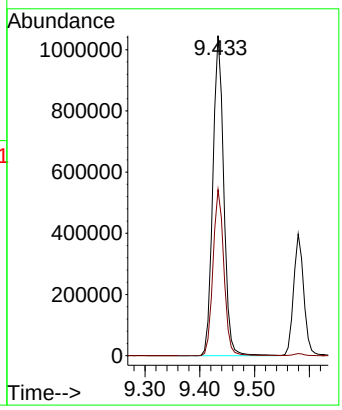


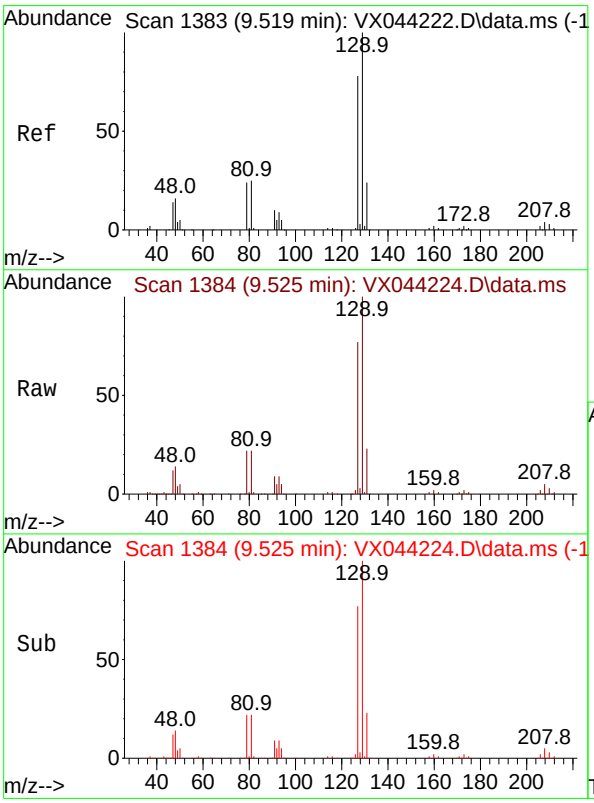
#59
2-Hexanone
Concen: 816.161 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1436300

Ion	Ratio	Lower	Upper
43	100		
58	52.0	25.7	77.0

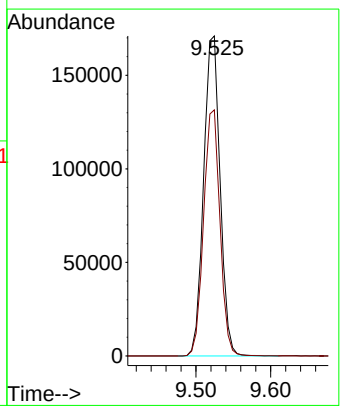


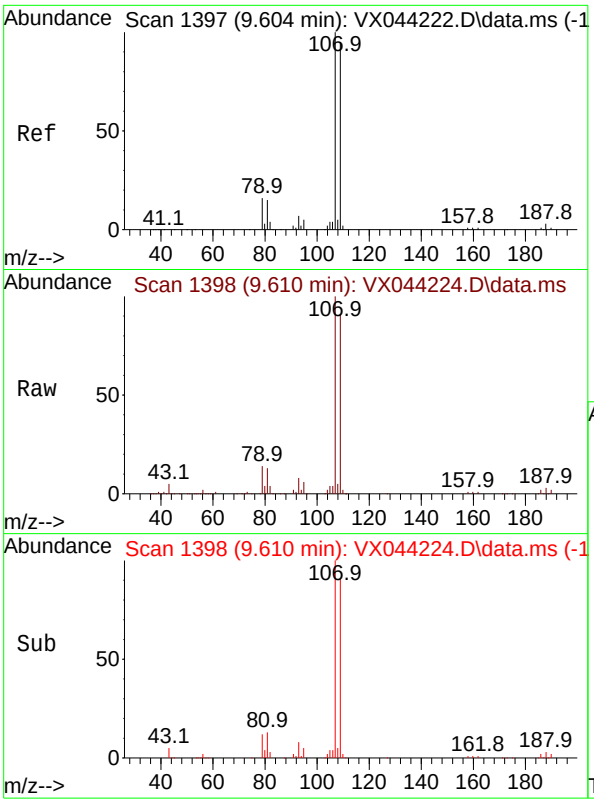


#60
Dibromochloromethane
Concen: 150.105 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:129 Resp: 261253

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.5	115.3



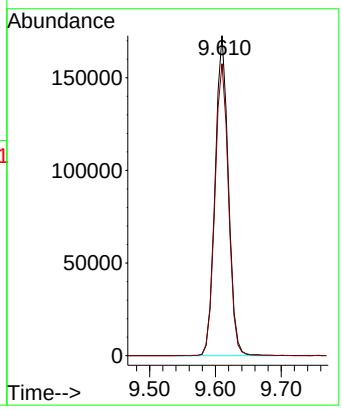


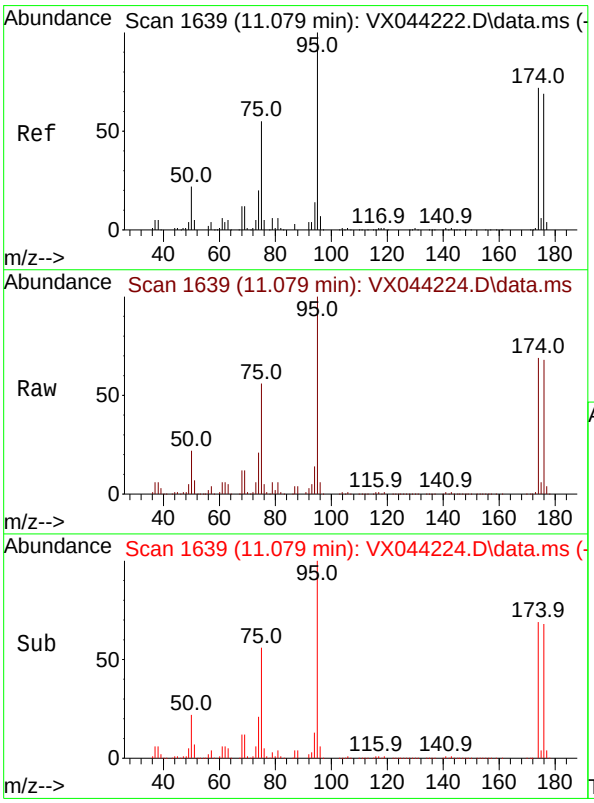
#61
1,2-Dibromoethane
Concen: 160.674 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 242451

Ion	Ratio	Lower	Upper
107	100		
109	93.4	77.0	115.4

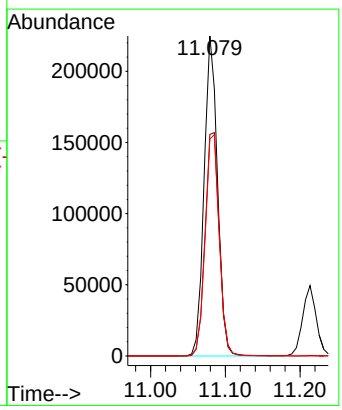


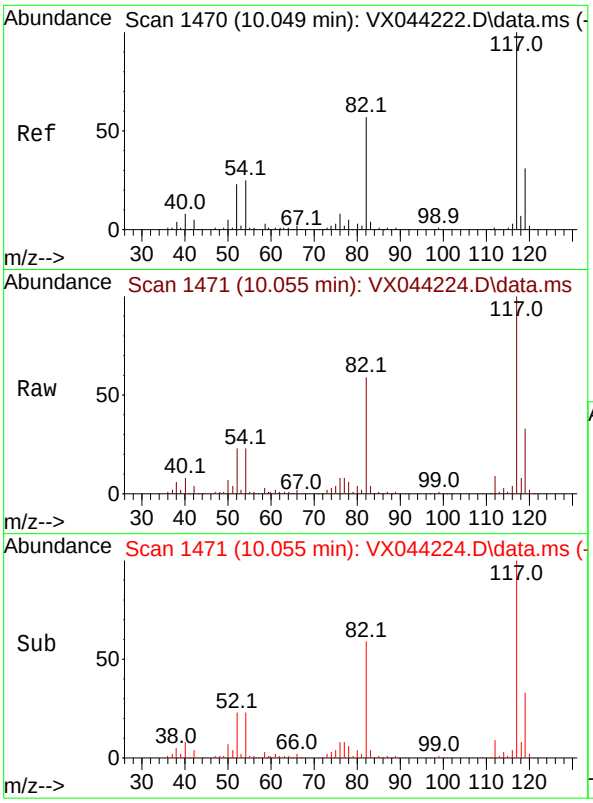


#62
4-Bromofluorobenzene
Concen: 156.709 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 95 Resp: 279706

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	145.8
176	72.6	0.0	137.8



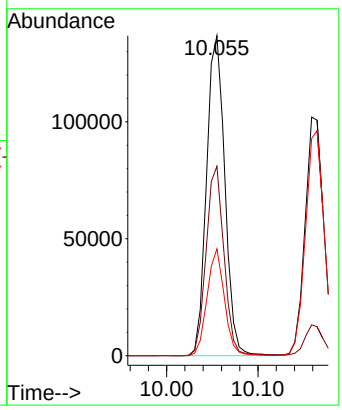


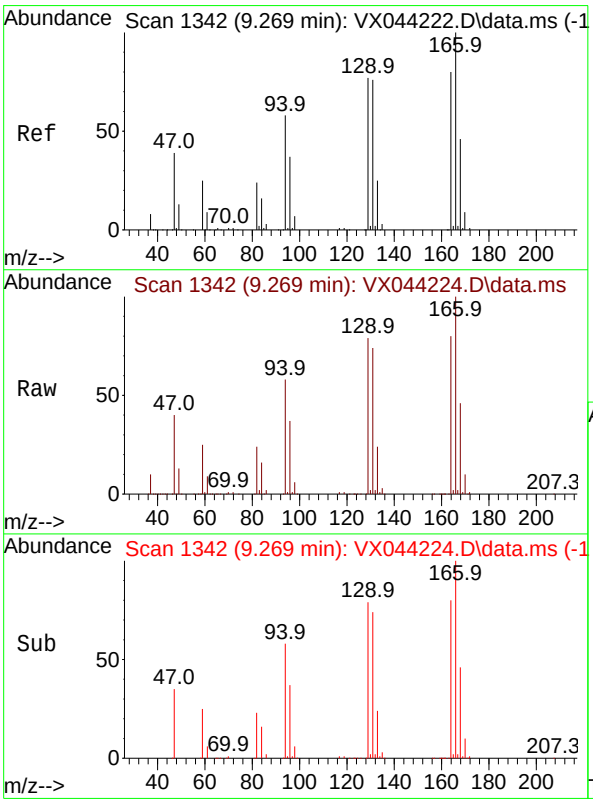
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 190013

Ion	Ratio	Lower	Upper
117	100		
82	59.2	45.8	68.8
119	33.4	25.0	37.4

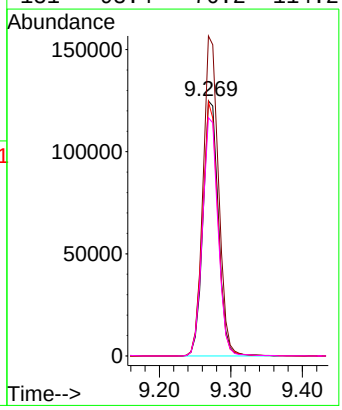


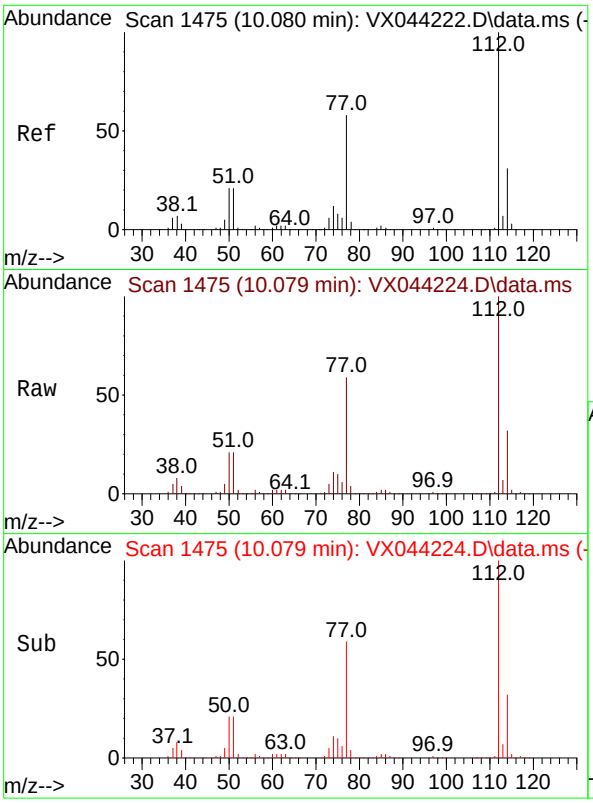


#64
Tetrachloroethene
Concen: 147.836 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:164 Resp: 186443

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.7	77.2	115.8
131	93.4	76.2	114.2



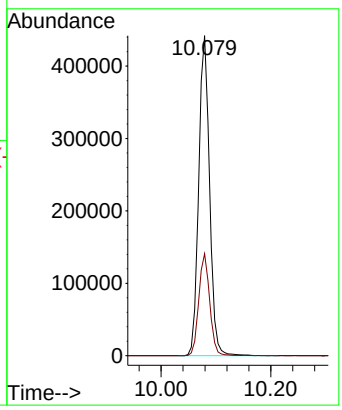


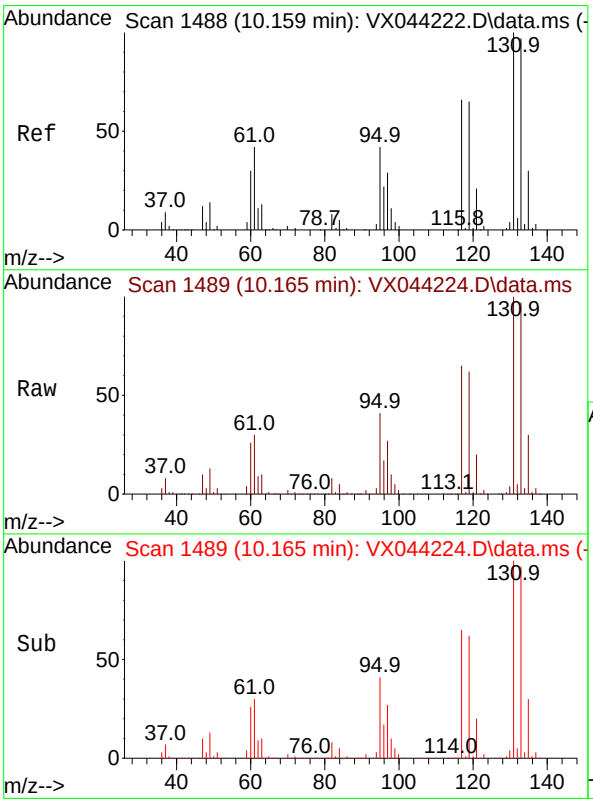
#65
Chlorobenzene
Concen: 149.428 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 608404

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.0	37.6

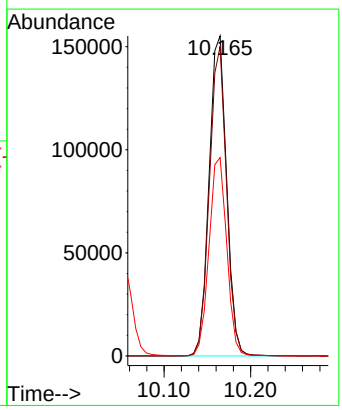


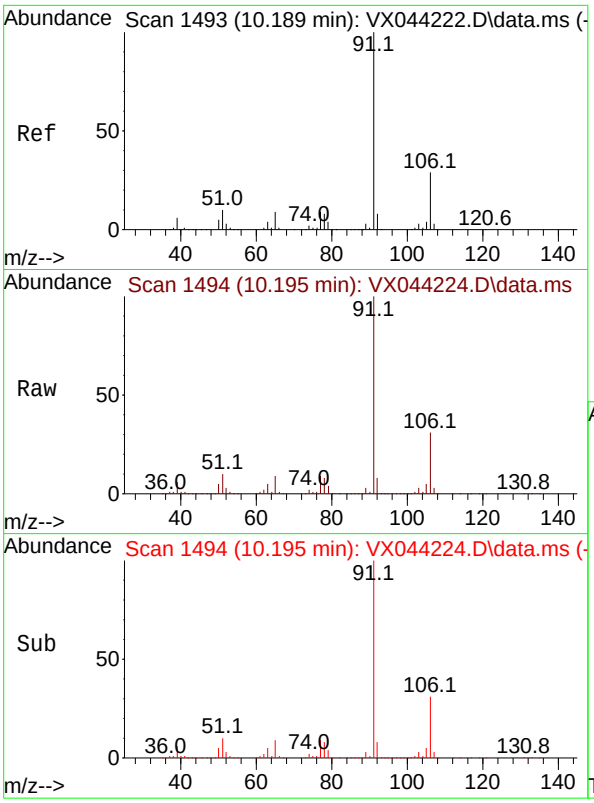


#66
1,1,1,2-Tetrachloroethane
Concen: 166.991 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:131 Resp: 218515

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	62.7	31.6	95.0



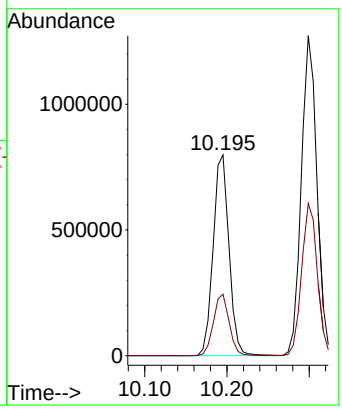


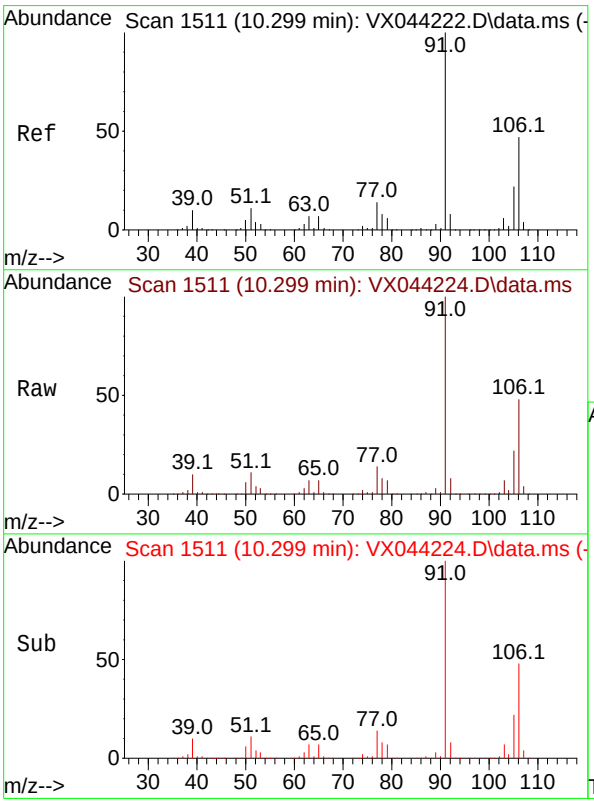
#67
Ethyl Benzene
Concen: 151.917 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1068736

Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.5	35.3

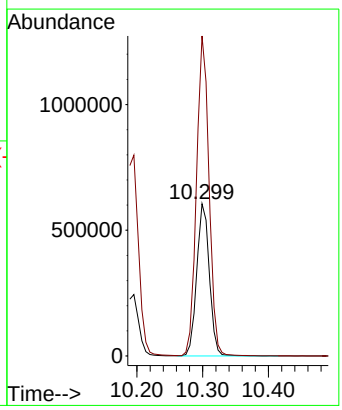


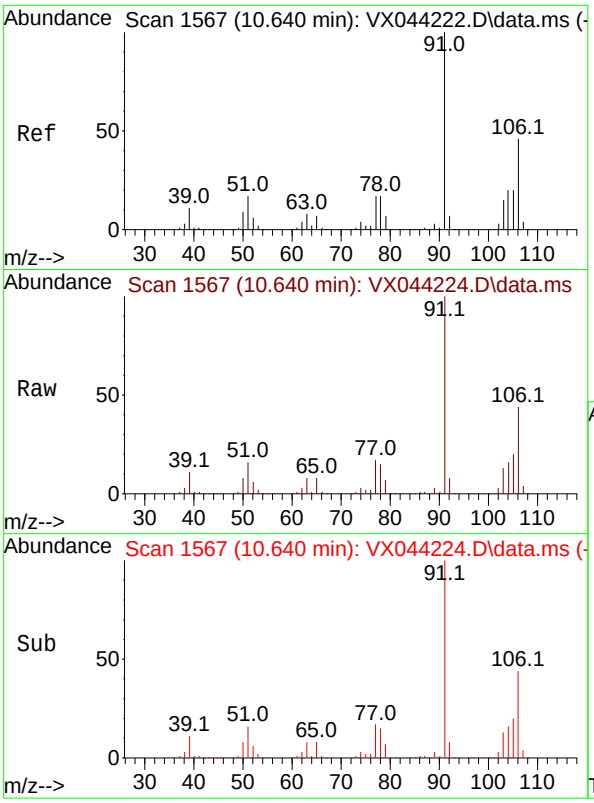


#68
m/p-Xylenes
Concen: 312.254 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:106 Resp: 806058

Ion	Ratio	Lower	Upper
106	100		
91	208.8	170.2	255.2



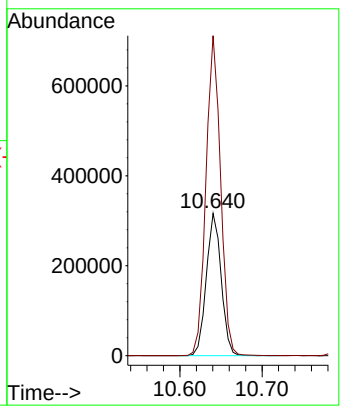


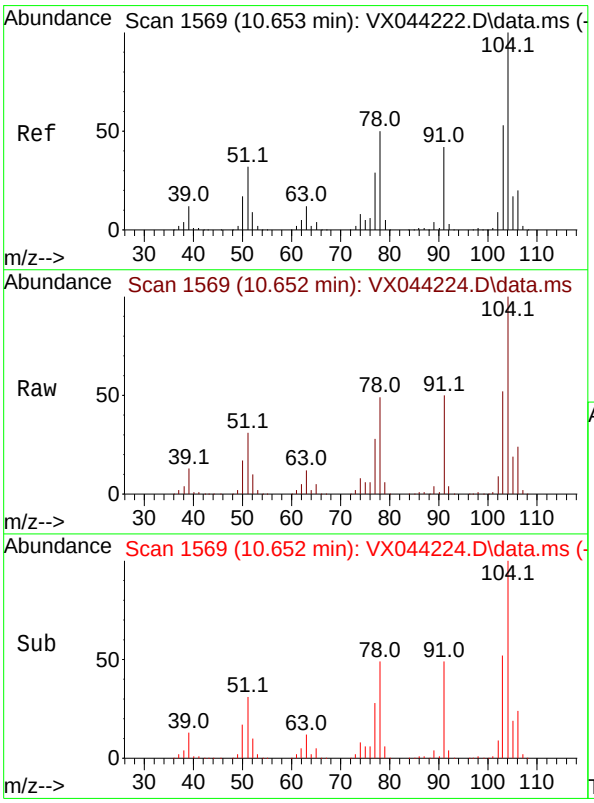
#69
o-Xylene
Concen: 152.030 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 397084

Ion	Ratio	Lower	Upper
106	100		
91	221.5	112.3	337.0

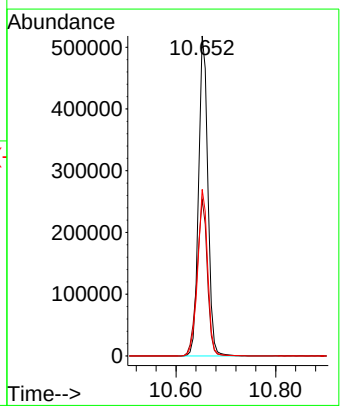


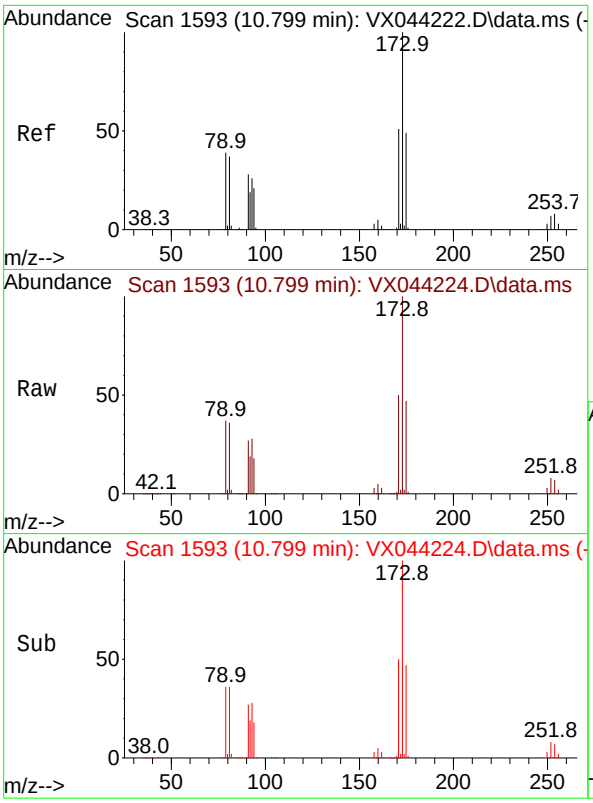


#70
Styrene
Concen: 160.228 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:104 Resp: 670887

Ion	Ratio	Lower	Upper
104	100		
78	54.2	44.6	67.0
103	55.9	45.4	68.0



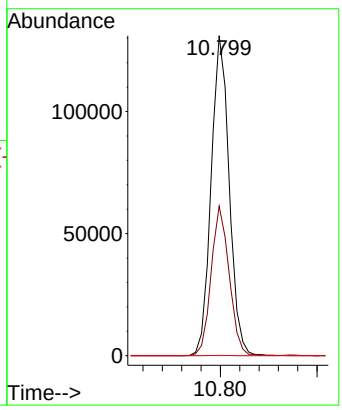


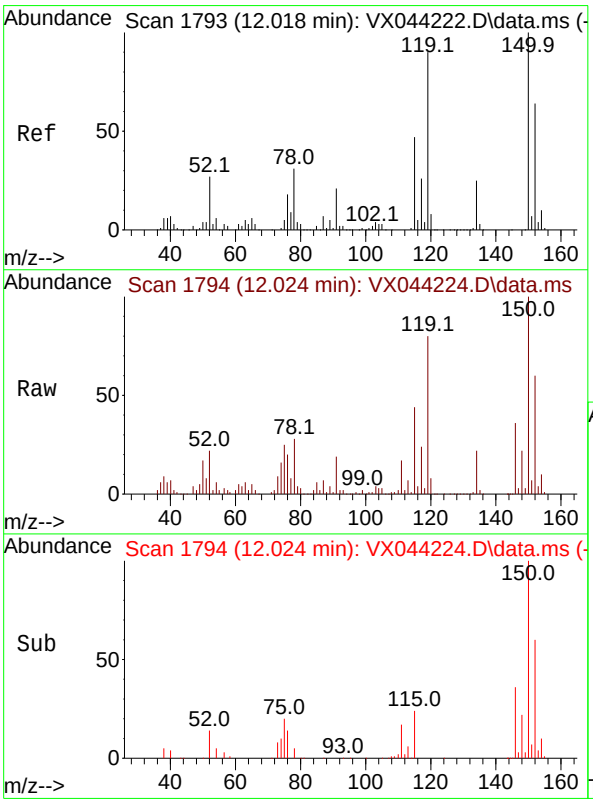
#71
Bromoform
Concen: 150.034 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 169450

Ion	Ratio	Lower	Upper
173	100		
175	46.8	23.8	71.4
254	0.1	0.0	0.0#

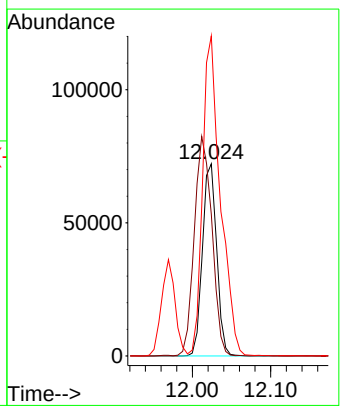


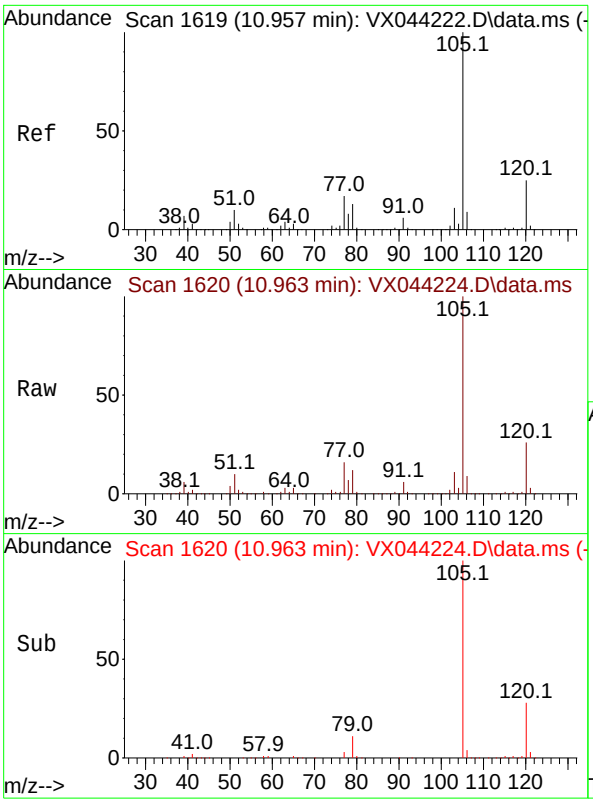


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:152 Resp: 90898

Ion	Ratio	Lower	Upper
152	100		
115	142.2	44.5	133.3#
150	208.8	0.0	353.8



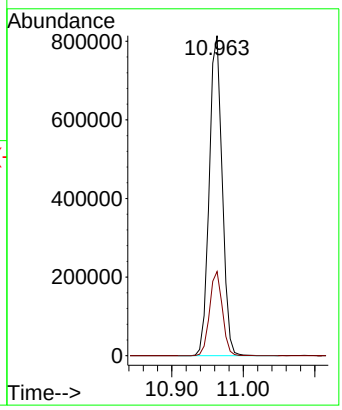


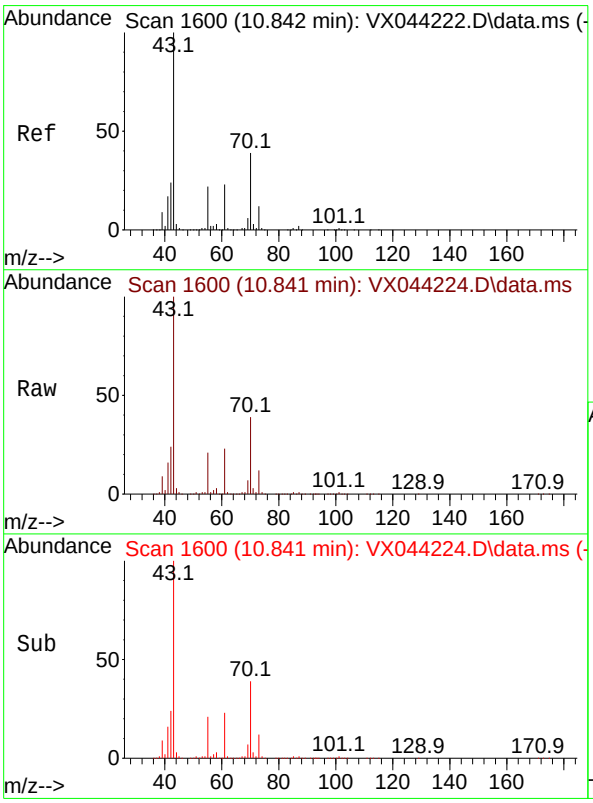
#73
Isopropylbenzene
Concen: 146.832 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1021749

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.3

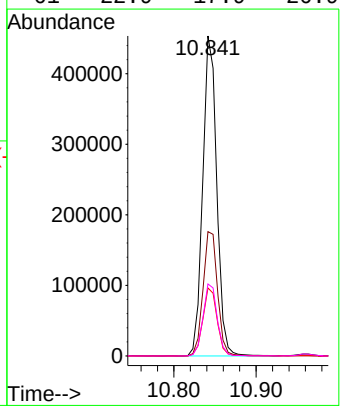


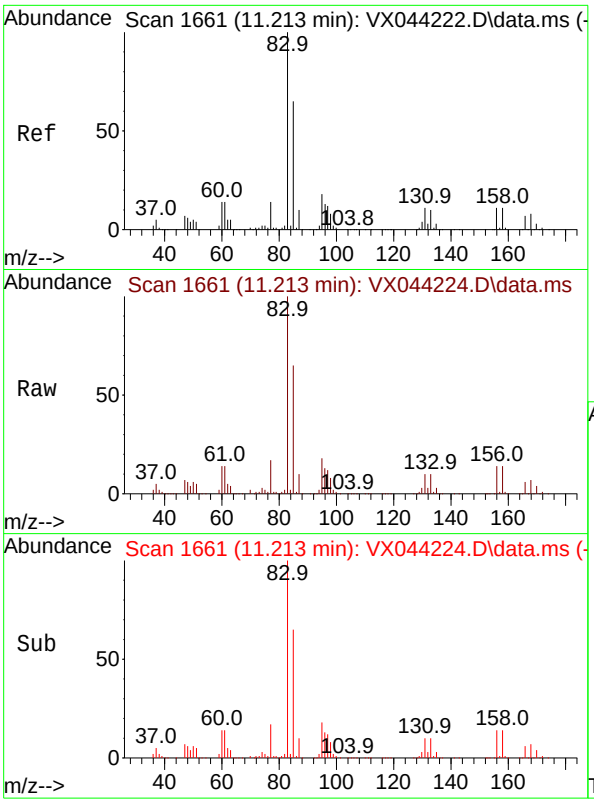


#74
N-amyl acetate
Concen: 166.823 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 43 Resp: 536496

Ion	Ratio	Lower	Upper
43	100		
70	40.3	31.9	47.9
55	21.6	17.9	26.9
61	22.9	17.9	26.9



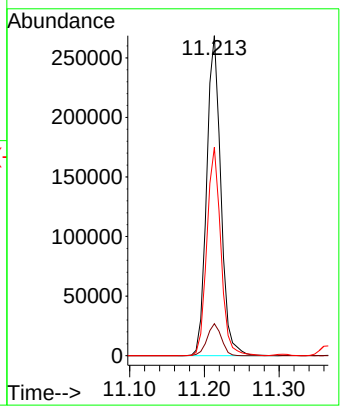


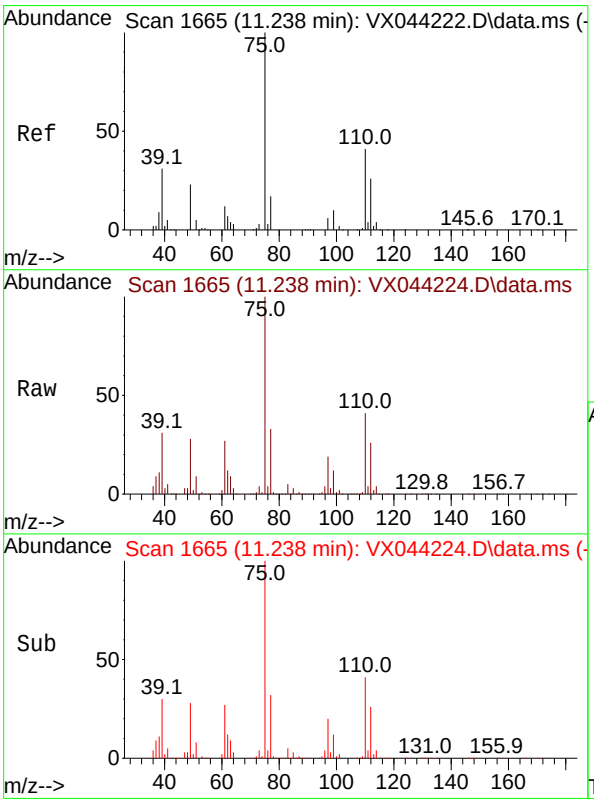
#75
1,1,2,2-Tetrachloroethane
Concen: 145.883 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 352591

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.4	32.5	97.4

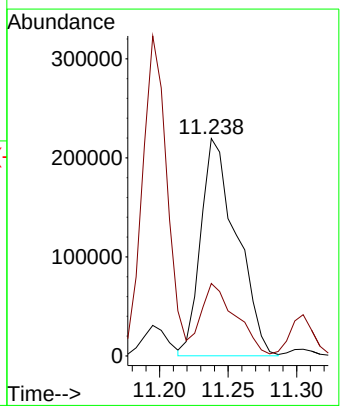


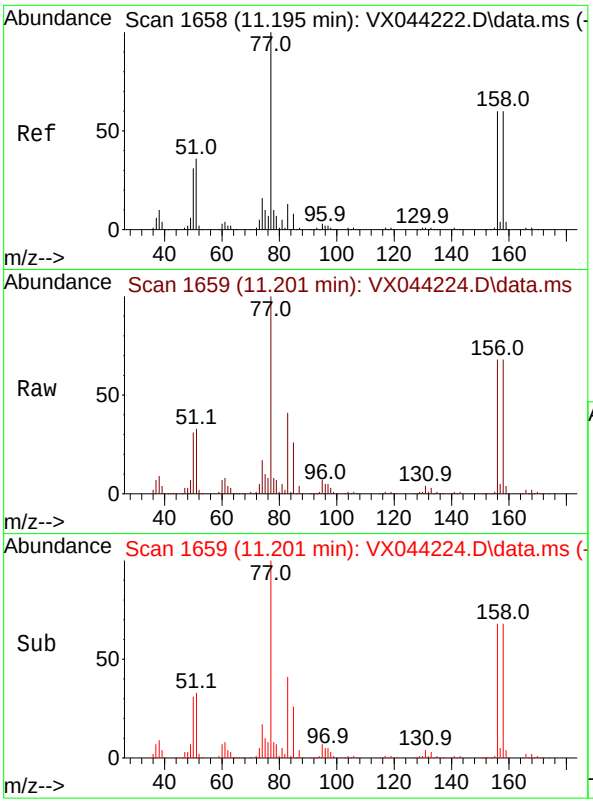


#76
1,2,3-Trichloropropane
Concen: 194.277 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 400724

Ion	Ratio	Lower	Upper
75	100		
77	32.4	20.9	62.7



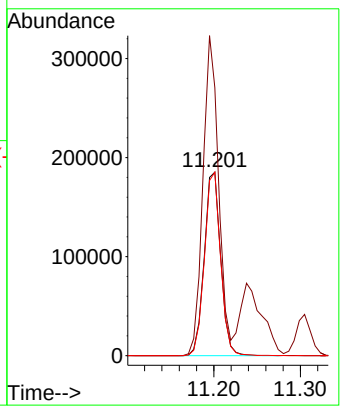


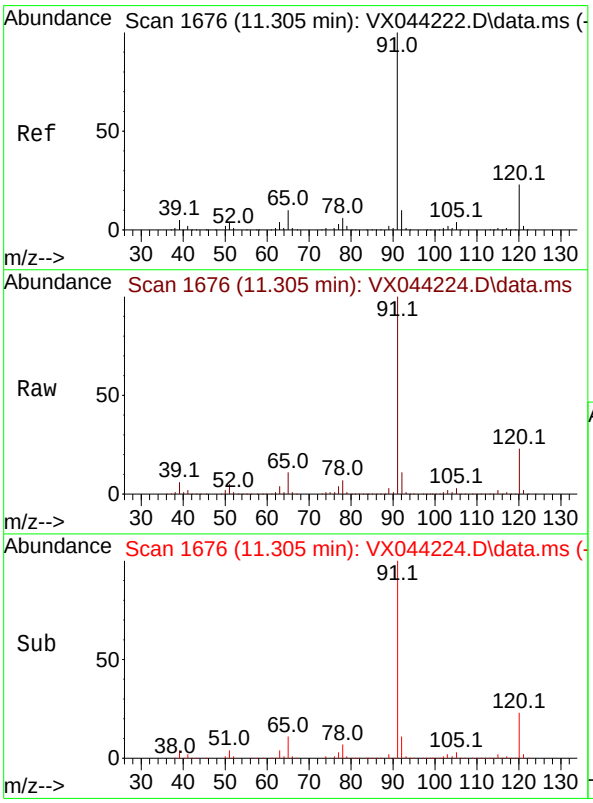
#77
Bromobenzene
Concen: 144.584 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 243975

Ion	Ratio	Lower	Upper
156	100		
77	165.5	82.6	247.8
158	98.2	48.8	146.4

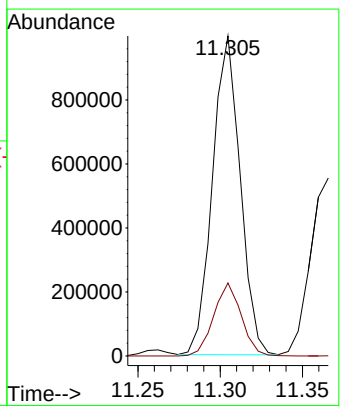


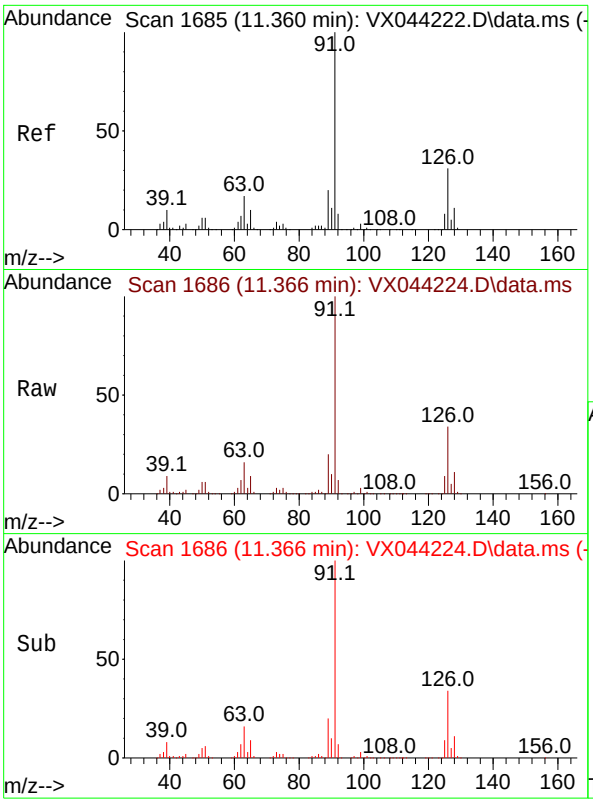


#78
n-propylbenzene
Concen: 151.637 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 1166255

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.0	33.0



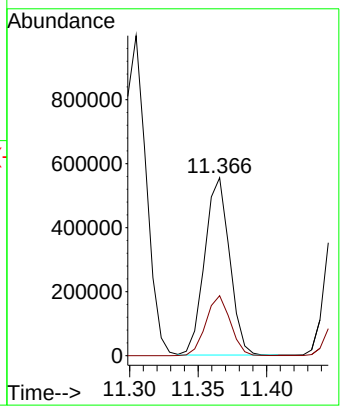


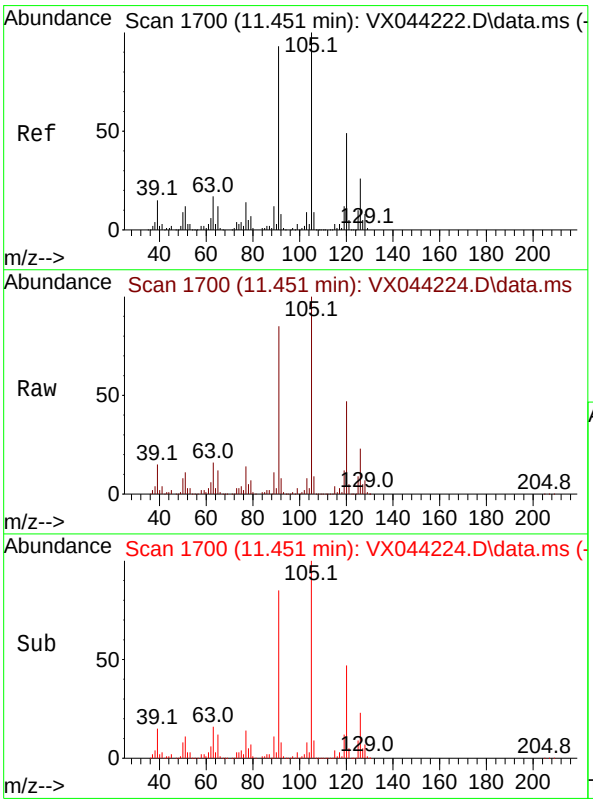
#79
2-Chlorotoluene
Concen: 140.866 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 700673

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.4	49.1

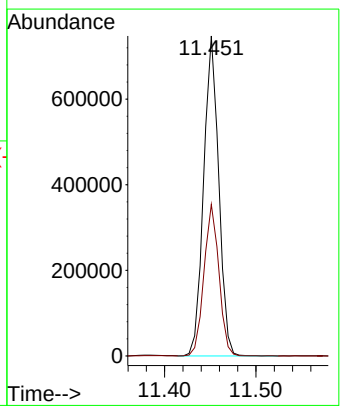


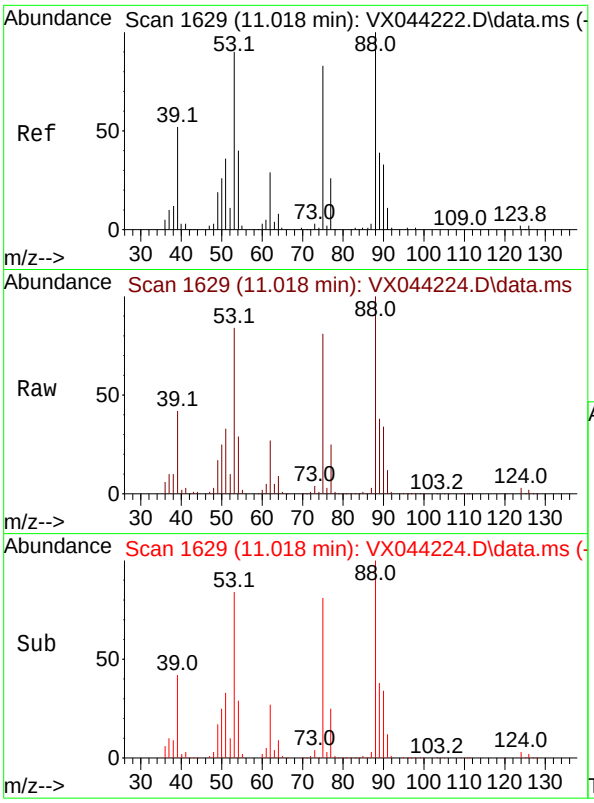


#80
1,3,5-Trimethylbenzene
Concen: 147.824 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 853042

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.8	71.4



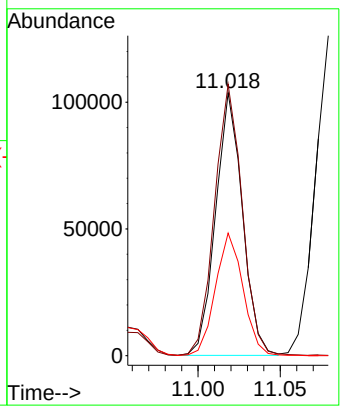


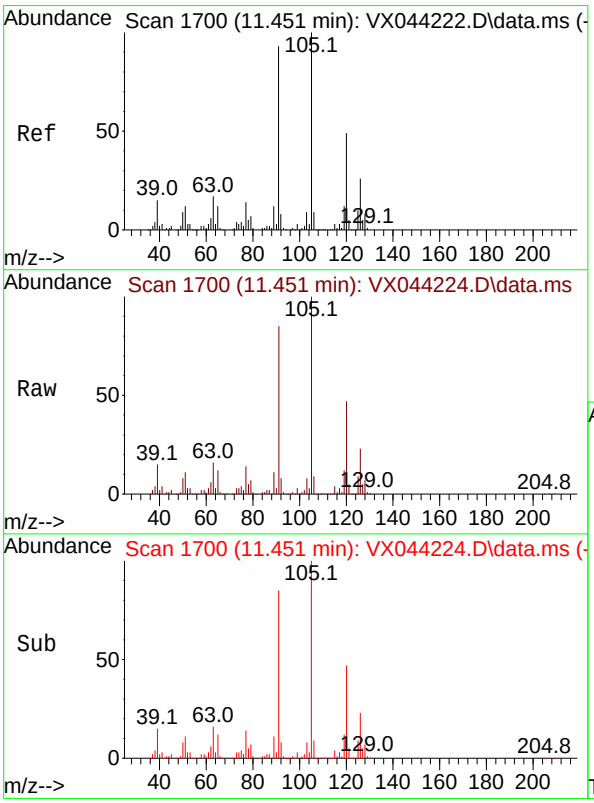
#81
trans-1,4-Dichloro-2-butene
Concen: 152.670 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 117263

Ion	Ratio	Lower	Upper
75	100		
53	107.3	93.6	140.4
89	48.2	37.3	55.9

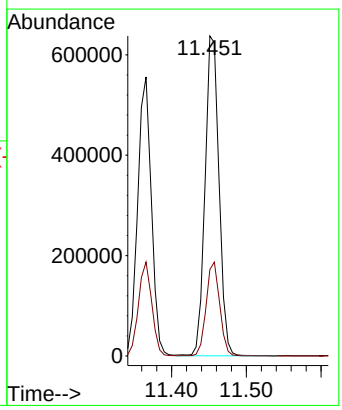


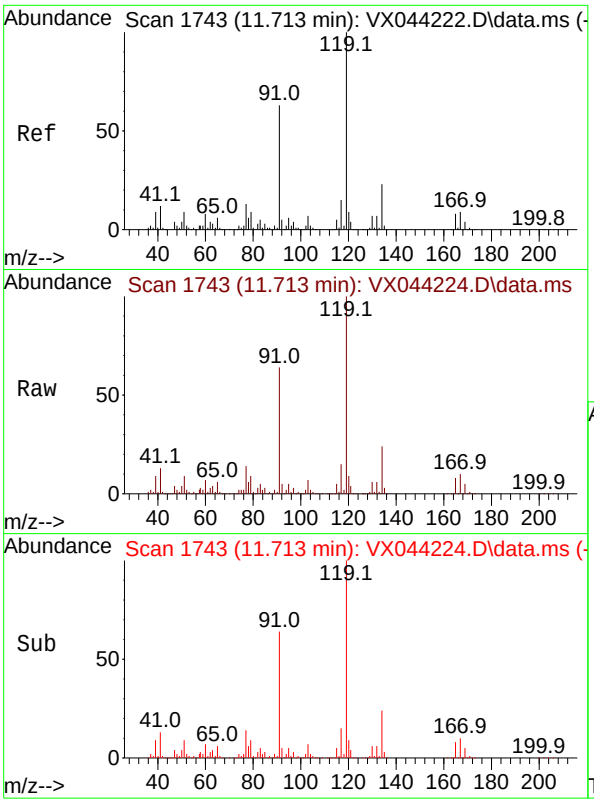


#82
4-Chlorotoluene
Concen: 149.831 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 91 Resp: 825278

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.5	43.5



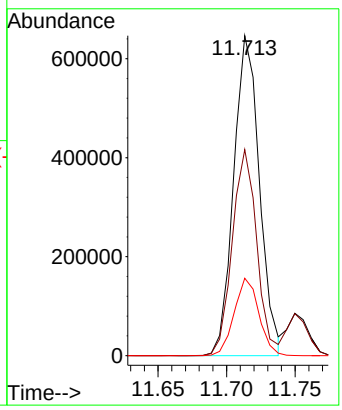


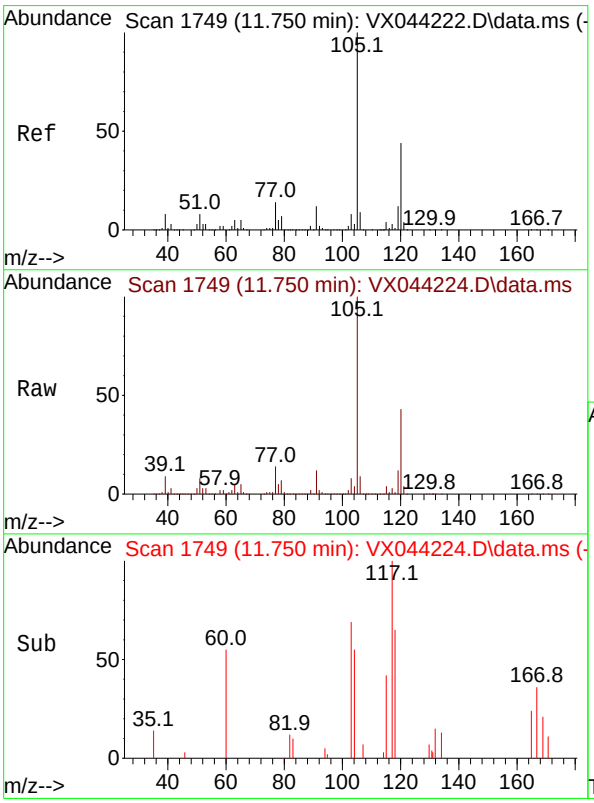
#83
tert-Butylbenzene
Concen: 148.495 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 846864

Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.5
134	23.3	11.5	34.4

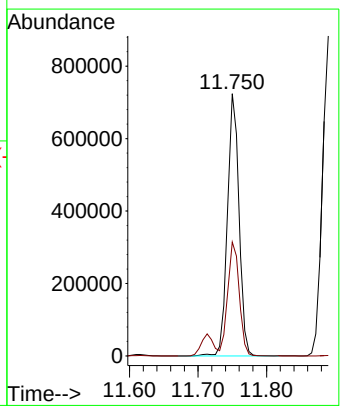


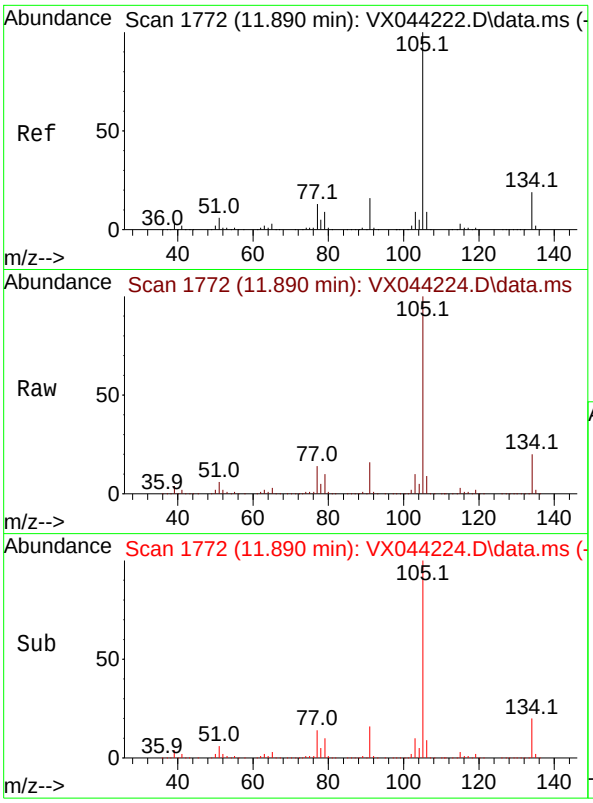


#84
1,2,4-Trimethylbenzene
Concen: 149.414 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:105 Resp: 846771

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.7	65.1



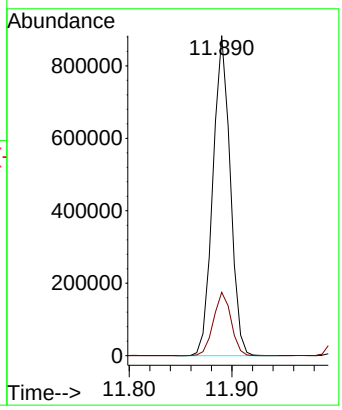


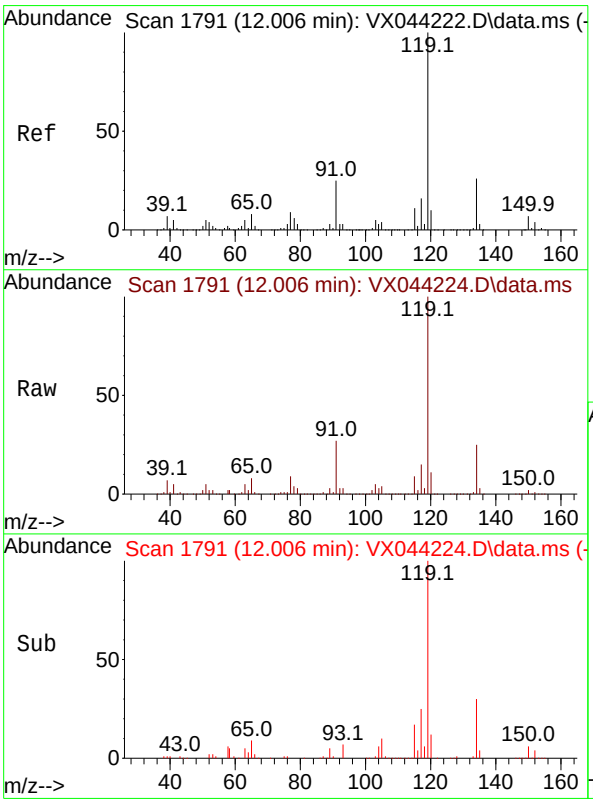
#85
sec-Butylbenzene
Concen: 149.409 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1034419

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4

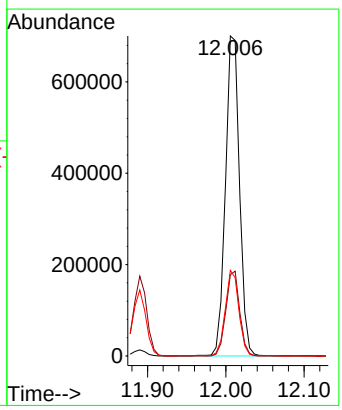


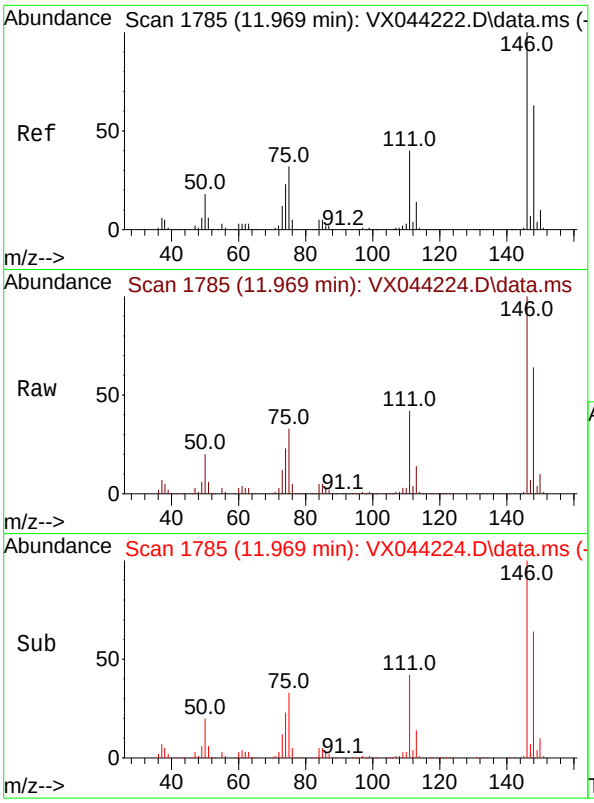


#86
p-Isopropyltoluene
Concen: 151.944 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:119 Resp: 875562

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	25.7	13.0	39.0



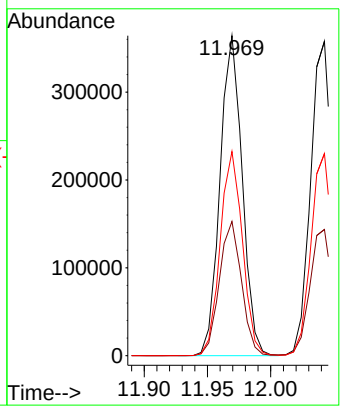


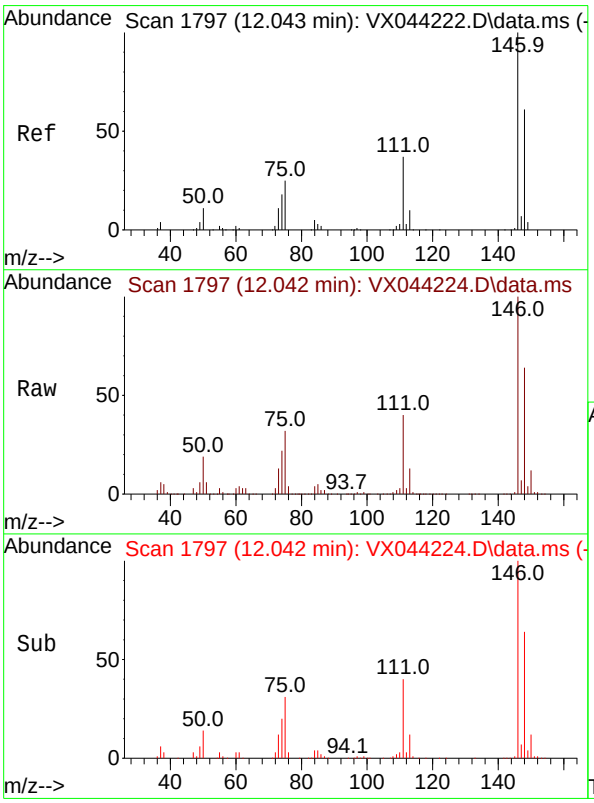
#87
1,3-Dichlorobenzene
Concen: 150.575 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 443826

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.4	64.2
148	64.0	31.7	95.1

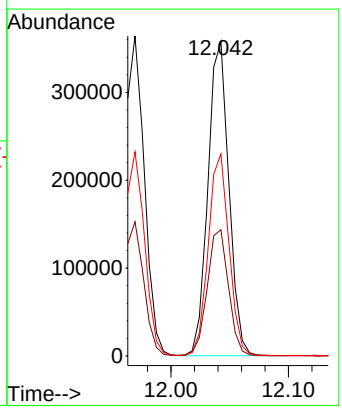


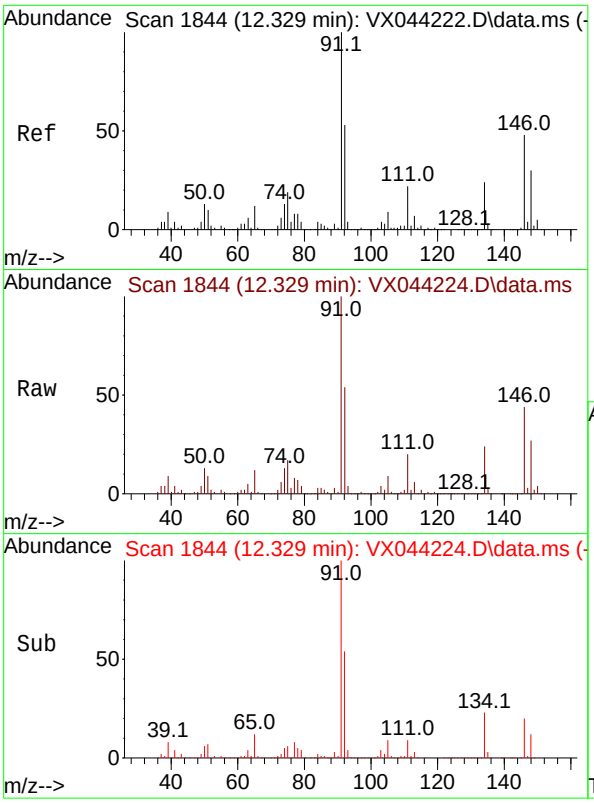


#88
1,4-Dichlorobenzene
Concen: 146.058 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:146 Resp: 442556

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.0	63.0
148	63.7	32.3	96.8



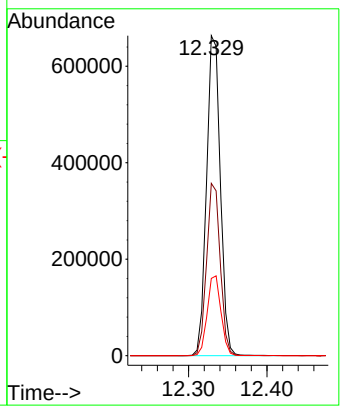


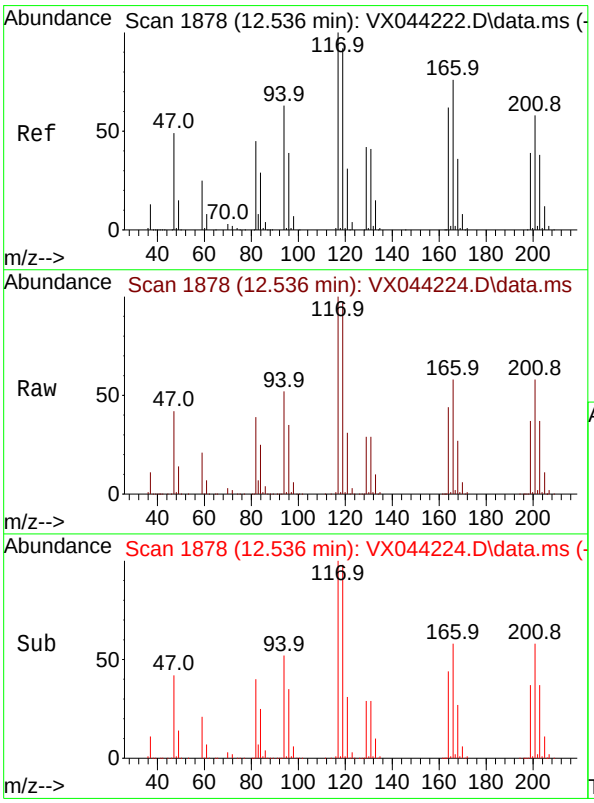
#89
n-Butylbenzene
Concen: 166.836 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 808399

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.7
134	25.0	12.6	37.8

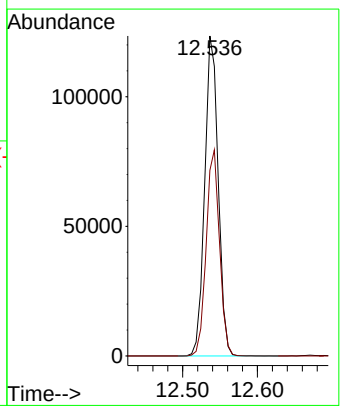


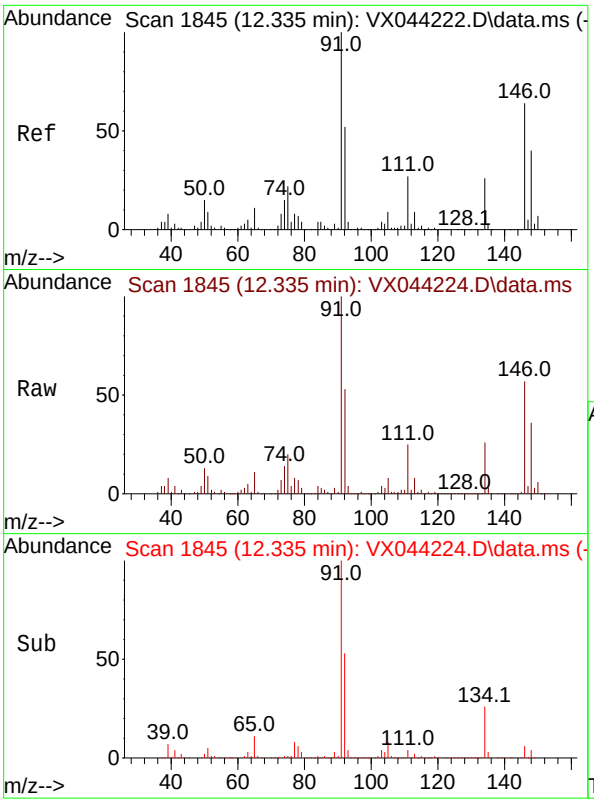


#90
Hexachloroethane
Concen: 183.942 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:117 Resp: 154726

Ion	Ratio	Lower	Upper
117	100		
201	63.5	31.4	94.2



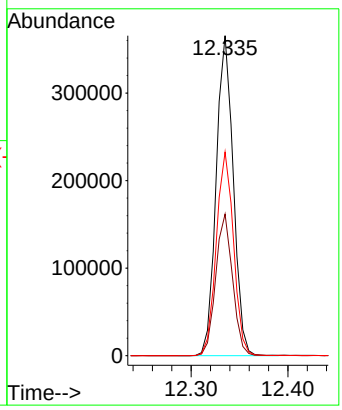


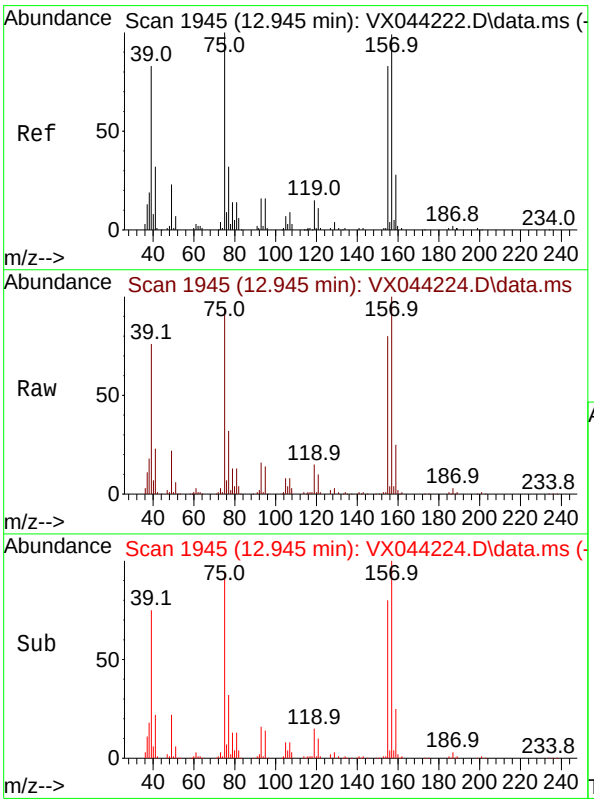
#91
1,2-Dichlorobenzene
Concen: 146.357 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 447931

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.4	64.3
148	64.2	31.6	95.0

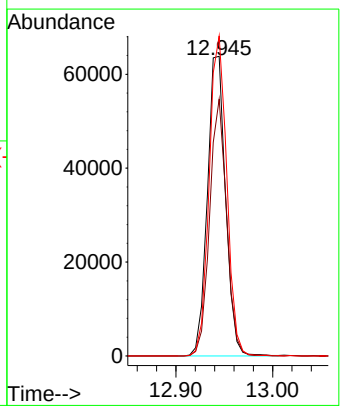


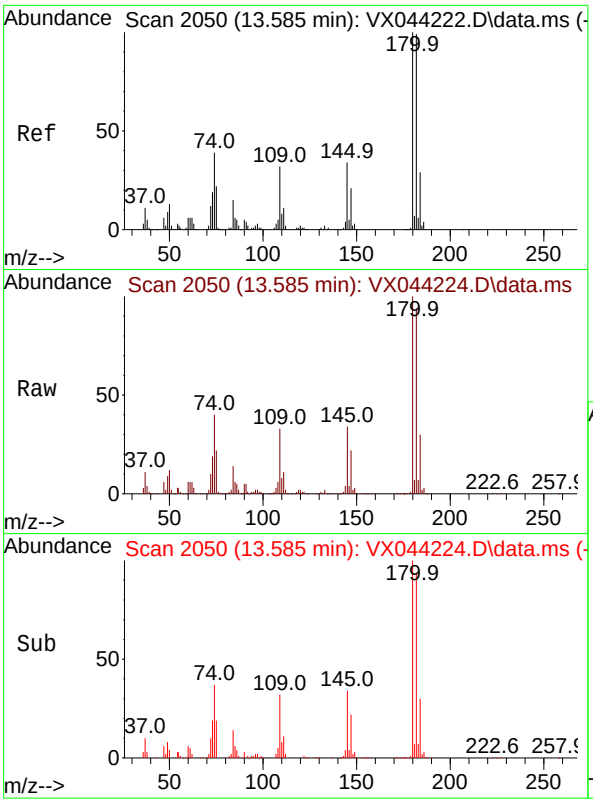


#92
1,2-Dibromo-3-Chloropropane
Concen: 178.106 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion: 75 Resp: 83565

Ion	Ratio	Lower	Upper
75	100		
155	79.8	38.1	114.3
157	103.3	47.2	141.6



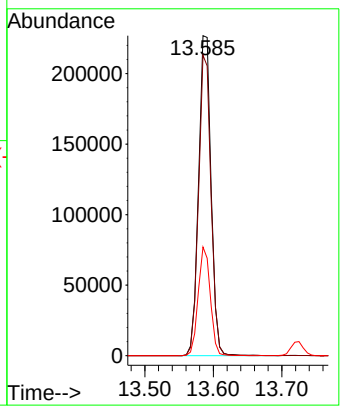


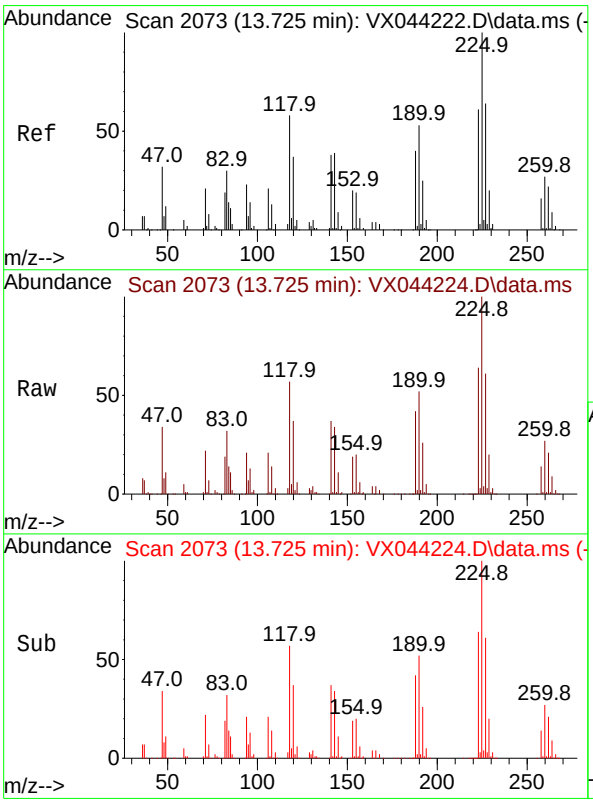
#93
1,2,4-Trichlorobenzene
Concen: 171.952 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 288519

Ion	Ratio	Lower	Upper
180	100		
182	93.3	48.0	144.2
145	33.0	16.6	49.7

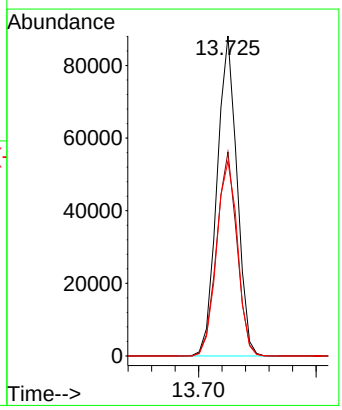


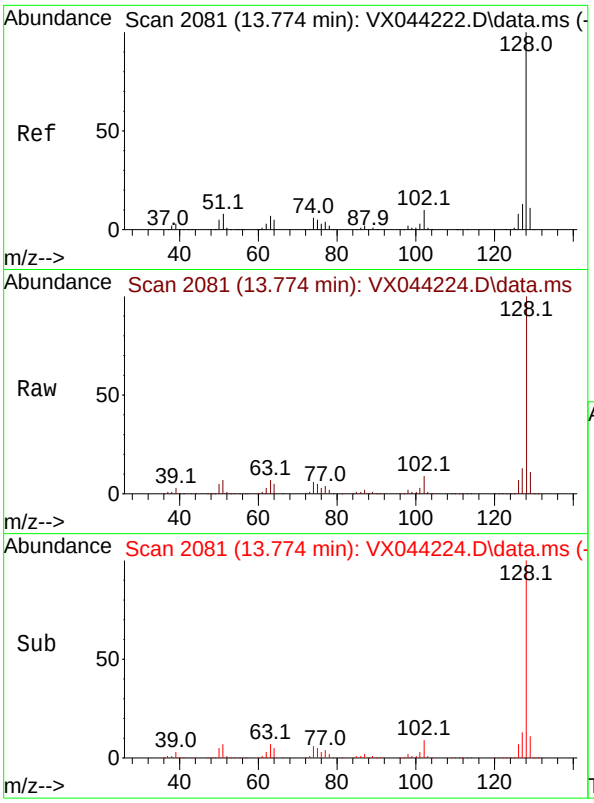


#94
Hexachlorobutadiene
Concen: 154.036 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:225 Resp: 103961

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	64.0	32.1	96.3



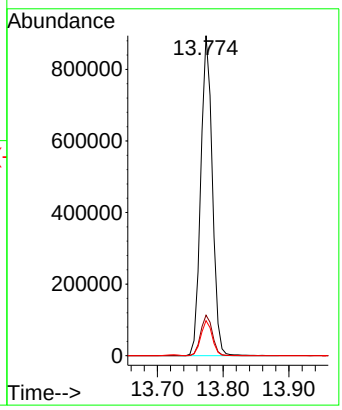


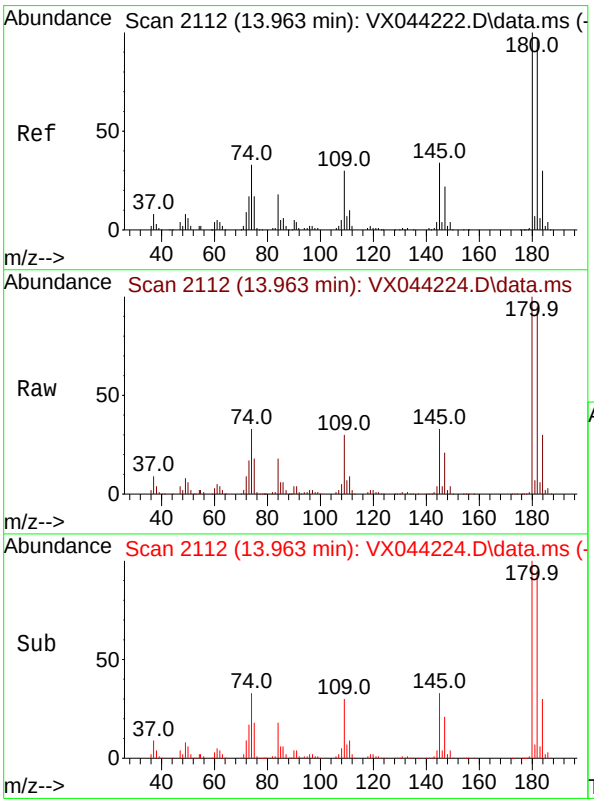
#95
Naphthalene
Concen: 167.187 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1094997

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	9.0	13.4

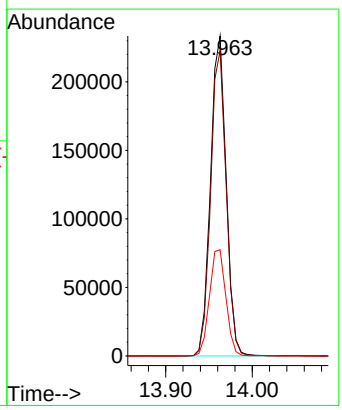




#96
1,2,3-Trichlorobenzene
Concen: 165.064 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044224.D
Acq: 11 Dec 2024 13:00

Tgt Ion:180 Resp: 293760

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	34.9	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	237295	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	210572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	99879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	107407	45.646	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.300%			
35) Dibromofluoromethane	5.379	113	77619	47.228	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.460%			
50) Toluene-d8	8.647	98	271508	48.968	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.940%			
62) 4-Bromofluorobenzene	11.079	95	97061	50.098	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	104566	50.390	ug/l	98
3) Chloromethane	1.294	50	92633	46.681	ug/l	98
4) Vinyl Chloride	1.374	62	97702	47.260	ug/l	97
5) Bromomethane	1.593	94	67357	45.926	ug/l	99
6) Chloroethane	1.666	64	62821	48.801	ug/l	100
7) Trichlorofluoromethane	1.867	101	203619	50.311	ug/l	99
8) Diethyl Ether	2.136	74	63075	45.658	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	82498	50.374	ug/l	99
10) Methyl Iodide	2.441	142	100043	46.349	ug/l	100
11) Tert butyl alcohol	3.001	59	77494	233.680	ug/l	100
12) 1,1-Dichloroethene	2.306	96	74177	49.311	ug/l	99
13) Acrolein	2.233	56	111927	233.162	ug/l	97
14) Allyl chloride	2.654	41	124635	49.744	ug/l	100
15) Acrylonitrile	3.068	53	221037	240.620	ug/l	100
16) Acetone	2.386	43	260267	271.312	ug/l	98
17) Carbon Disulfide	2.501	76	149824	52.397	ug/l	98
18) Methyl Acetate	2.709	43	115569	46.725	ug/l	93
19) Methyl tert-butyl Ether	3.117	73	281413	47.940	ug/l	99
20) Methylene Chloride	2.782	84	83188	46.170	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	77471	48.459	ug/l	98
22) Diisopropyl ether	3.763	45	264732	46.922	ug/l	98
23) Vinyl Acetate	3.721	43	1185779	258.510	ug/l	99
24) 1,1-Dichloroethane	3.605	63	151134	48.056	ug/l	98
25) 2-Butanone	4.562	43	346052	253.747	ug/l	100
26) 2,2-Dichloropropane	4.465	77	140196	54.872	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	94838	46.709	ug/l	99
28) Bromochloromethane	4.891	49	69139	44.832	ug/l	99
29) Tetrahydrofuran	5.007	42	208362	238.031	ug/l	98
30) Chloroform	5.092	83	163372	46.235	ug/l	94
31) Cyclohexane	5.458	56	125567	49.443	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	146348	49.895	ug/l	99
36) 1,1-Dichloropropene	5.684	75	106889	50.314	ug/l	98
37) Ethyl Acetate	4.721	43	137017	52.176	ug/l	99
38) Carbon Tetrachloride	5.672	117	118390	51.763	ug/l	97
39) Methylcyclohexane	7.373	83	139077	54.761	ug/l	99
40) Benzene	6.031	78	316391	49.052	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	68251	48.945 ug/l	98
42) 1,2-Dichloroethane	6.086	62	132744	49.960 ug/l	100
43) Isopropyl Acetate	6.342	43	211889	51.624 ug/l	100
44) Trichloroethene	7.123	130	80008	49.741 ug/l	98
45) 1,2-Dichloropropane	7.427	63	78321	47.528 ug/l	98
46) Dibromomethane	7.574	93	65491	51.227 ug/l	99
47) Bromodichloromethane	7.818	83	116783	52.893 ug/l	99
48) Methyl methacrylate	7.690	41	101318	50.852 ug/l	98
49) 1,4-Dioxane	7.665	88	26140	791.313 ug/l #	71
51) 4-Methyl-2-Pentanone	8.574	43	673069	255.038 ug/l	99
52) Toluene	8.714	92	199281	49.199 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	120696	50.864 ug/l	95
54) cis-1,3-Dichloropropene	8.366	75	128875	53.607 ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	81362	50.562 ug/l	96
56) Ethyl methacrylate	9.116	69	134357	52.890 ug/l	98
57) 1,3-Dichloropropane	9.305	76	137705	49.165 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	332599	259.586 ug/l	100
59) 2-Hexanone	9.433	43	519476	271.943 ug/l	99
60) Dibromochloromethane	9.518	129	83515	49.073 ug/l	99
61) 1,2-Dibromoethane	9.610	107	85024	51.909 ug/l	97
64) Tetrachloroethene	9.269	164	66669	47.702 ug/l	98
65) Chlorobenzene	10.079	112	217180	48.133 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	74531	51.396 ug/l	100
67) Ethyl Benzene	10.189	91	385605	49.461 ug/l	99
68) m/p-Xylenes	10.299	106	285774	99.896 ug/l	99
69) o-Xylene	10.640	106	144001	49.750 ug/l	98
70) Styrene	10.652	104	239508	51.617 ug/l	98
71) Bromoform	10.799	173	50972	50.269 ug/l #	99
73) Isopropylbenzene	10.963	105	374769	49.014 ug/l	99
74) N-amyl acetate	10.841	43	183763	52.003 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	126615	47.676 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	138398	62.060 ug/l	85
77) Bromobenzene	11.195	156	87767	47.335 ug/l	99
78) n-propylbenzene	11.305	91	429443	50.816 ug/l	99
79) 2-Chlorotoluene	11.366	91	259860	47.546 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	313435	49.431 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	37038	47.861 ug/l	97
82) 4-Chlorotoluene	11.451	91	297641	49.178 ug/l	100
83) tert-Butylbenzene	11.713	119	309463	49.384 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	313433	50.333 ug/l	100
85) sec-Butylbenzene	11.890	105	381109	50.097 ug/l	100
86) p-Isopropyltoluene	12.006	119	320882	50.678 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	159094	49.122 ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	160742	48.280 ug/l	99
89) n-Butylbenzene	12.329	91	283284	53.207 ug/l	99
90) Hexachloroethane	12.536	117	48734	52.727 ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	160039	47.589 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	26738	51.864 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	99449	53.940 ug/l	98
94) Hexachlorobutadiene	13.725	225	37651	50.770 ug/l	98
95) Naphthalene	13.774	128	365781	50.827 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	100209	51.244 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

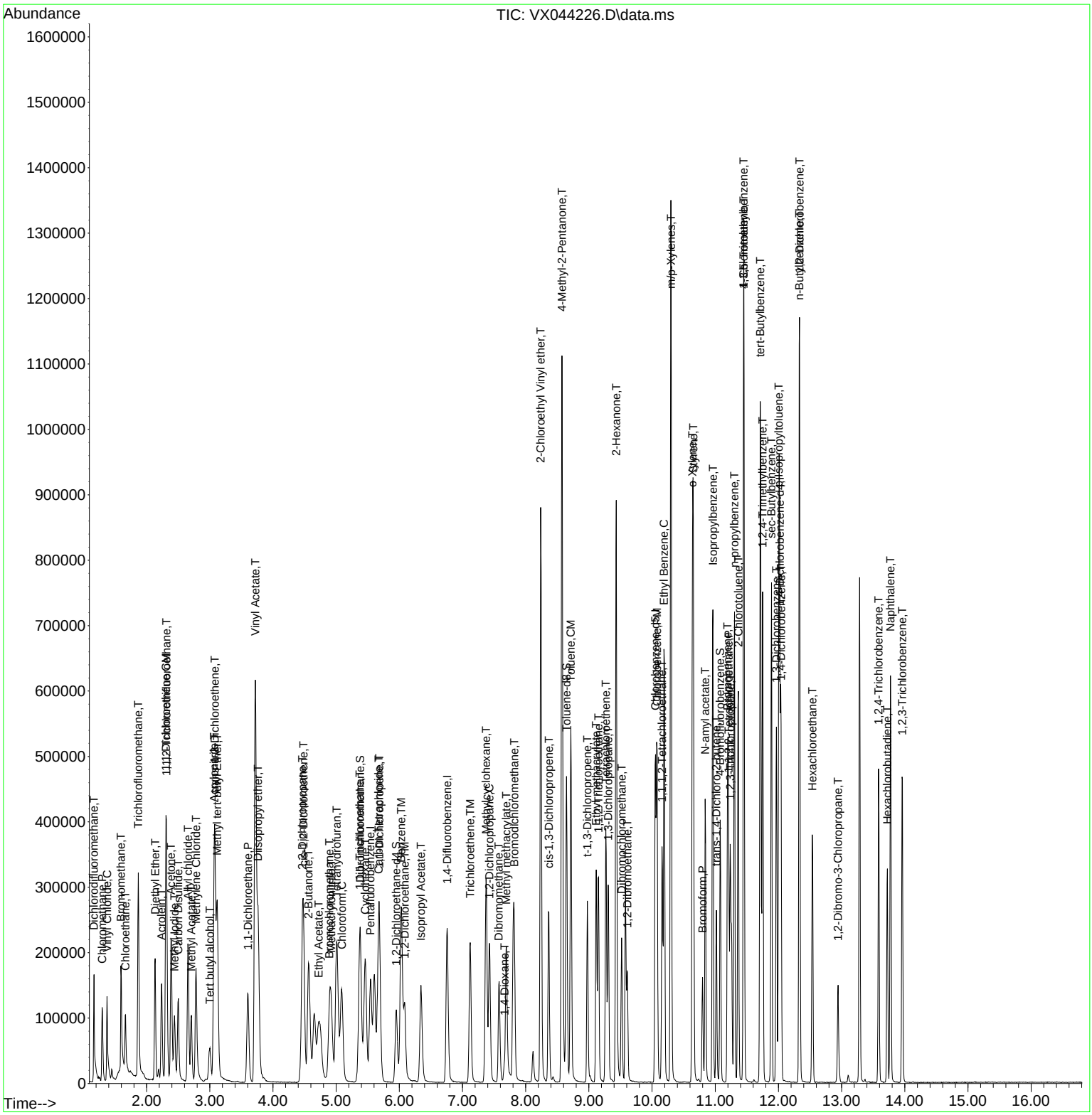
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

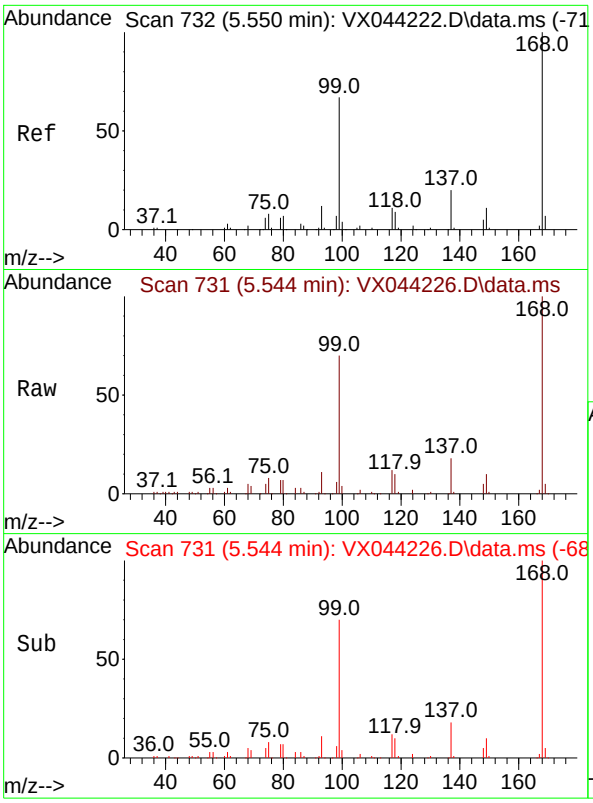
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121124\
Data File : VX044226.D
Acq On : 11 Dec 2024 13:51
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Quant Time: Dec 12 04:32:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



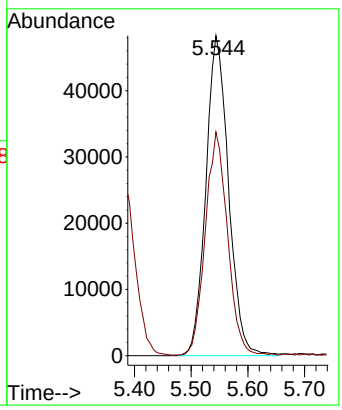


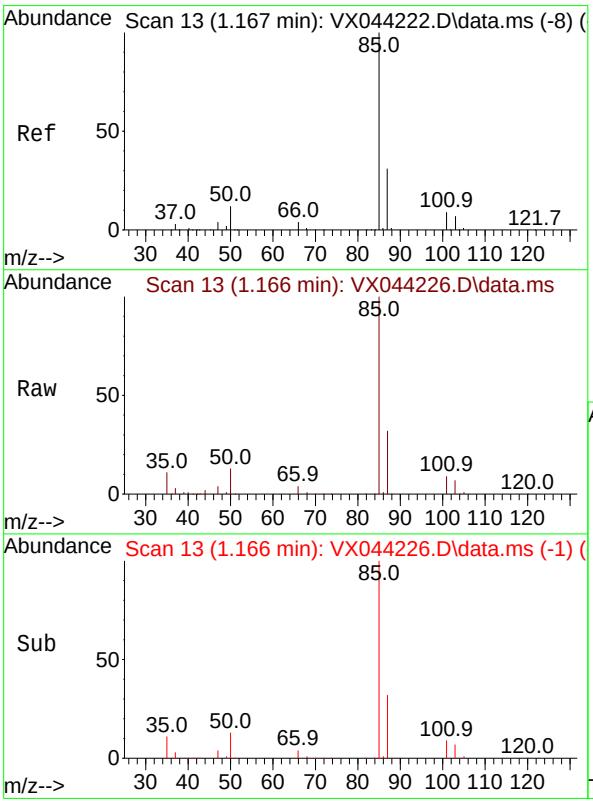
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:168 Resp: 134203

Ion	Ratio	Lower	Upper
168	100		
99	69.7	53.4	80.0

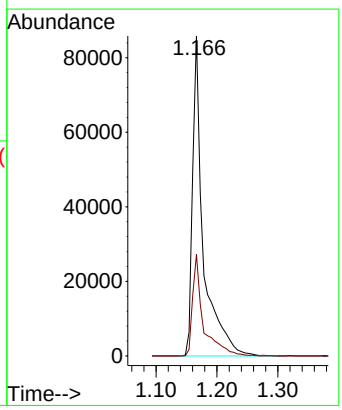


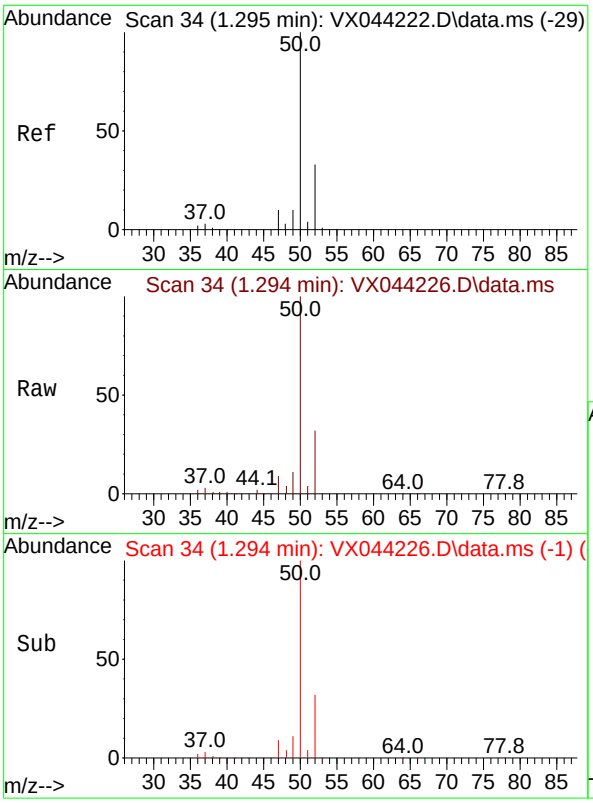


#2
Dichlorodifluoromethane
Concen: 50.390 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 85 Resp: 104566

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.4	46.4



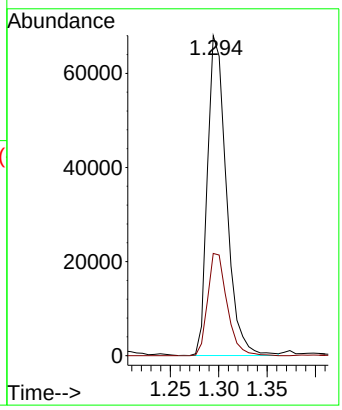


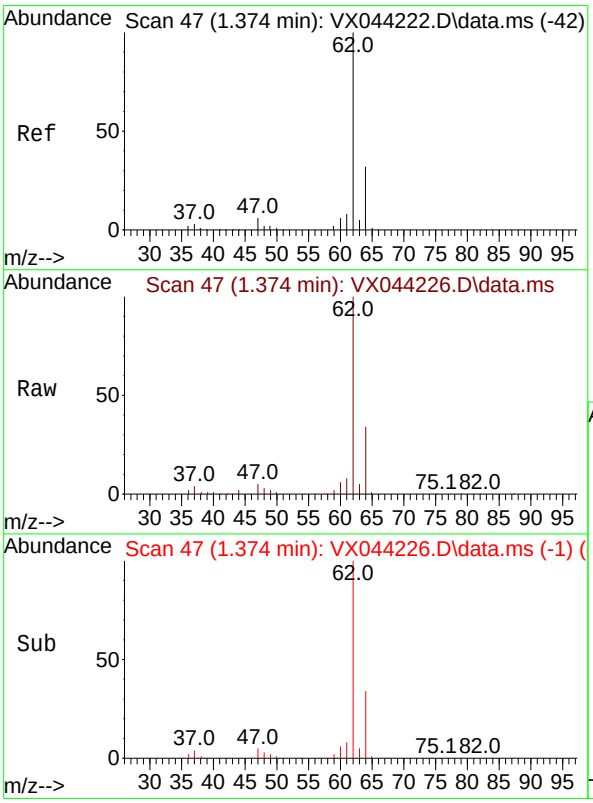
#3
Chloromethane
Concen: 46.681 ug/l
RT: 1.294 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 50 Resp: 92633

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.5	39.7

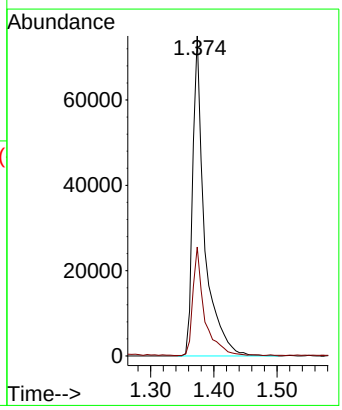


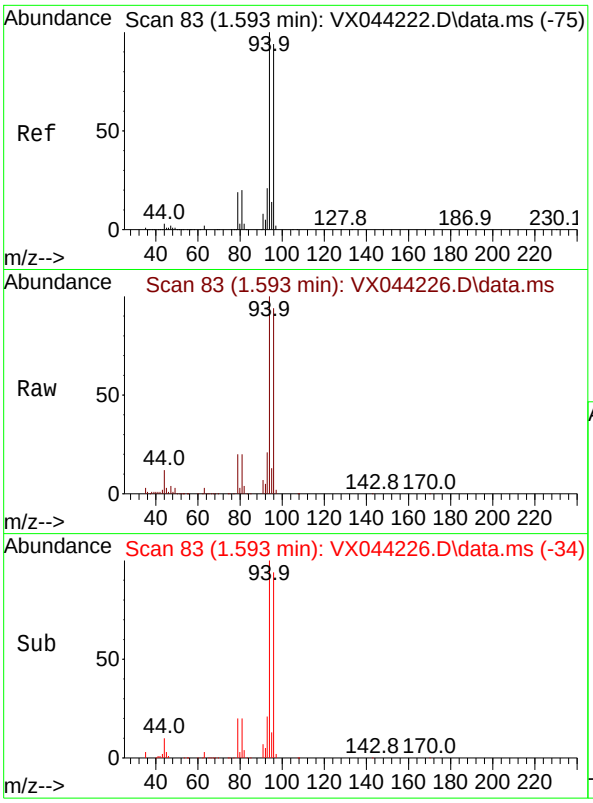


#4
Vinyl Chloride
Concen: 47.260 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 97702

Ion	Ratio	Lower	Upper
62	100		
64	33.9	25.7	38.5



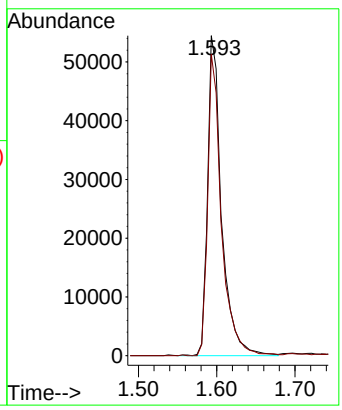


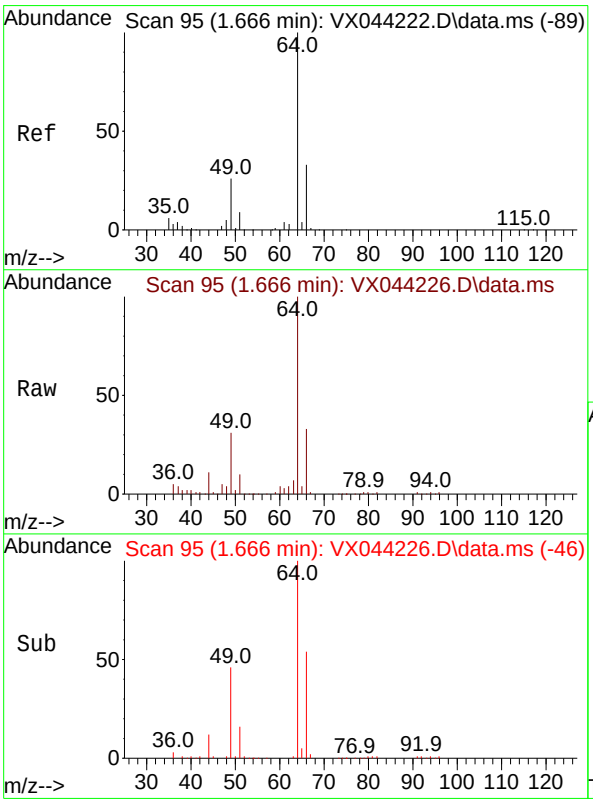
#5
Bromomethane
Concen: 45.926 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 94 Resp: 67357

Ion	Ratio	Lower	Upper
94	100		
96	94.2	74.9	112.3

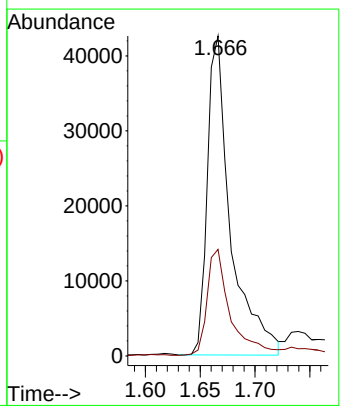


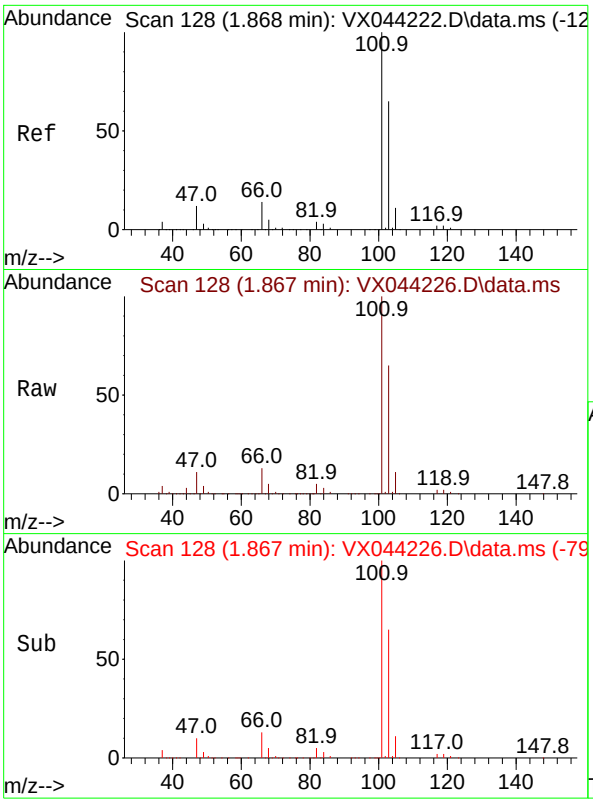


#6
Chloroethane
Concen: 48.801 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 64 Resp: 62821

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.6	39.8



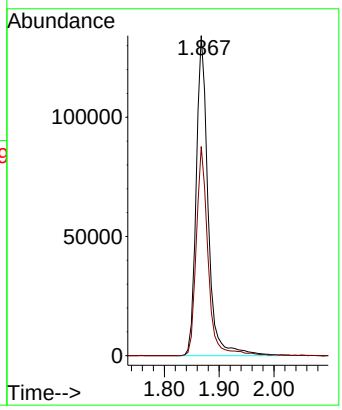


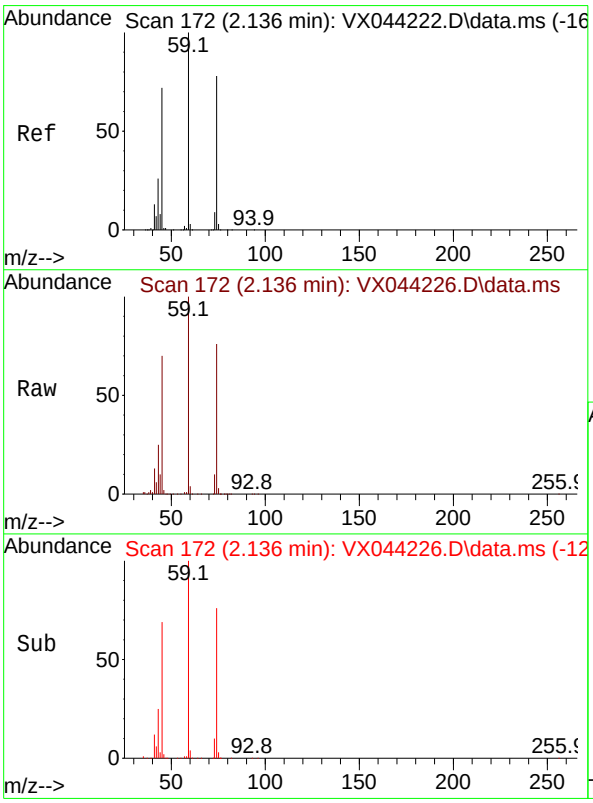
#7
Trichlorofluoromethane
Concen: 50.311 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:101 Resp: 203619

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8

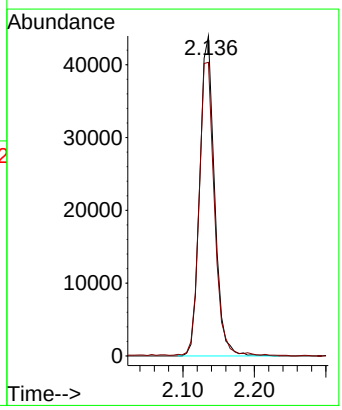


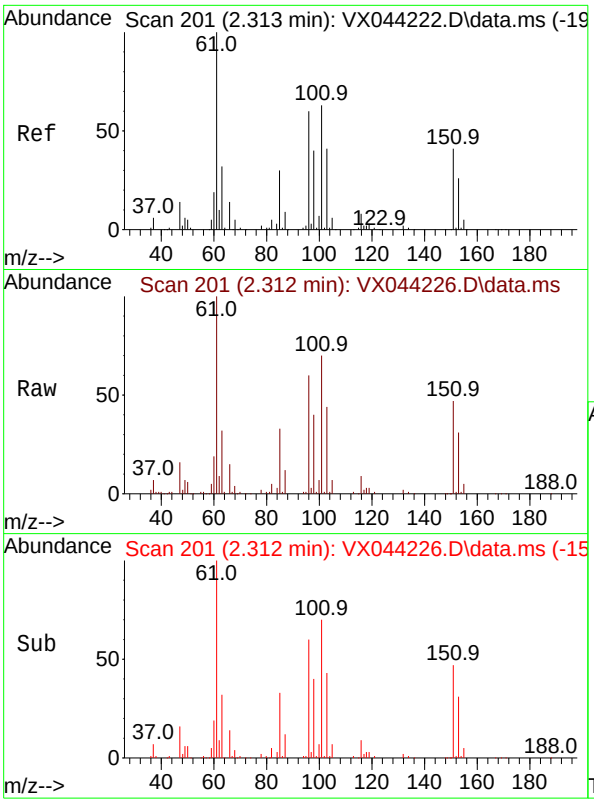


#8
Diethyl Ether
Concen: 45.658 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 74 Resp: 63075

Ion	Ratio	Lower	Upper
74	100		
45	94.4	48.4	145.0



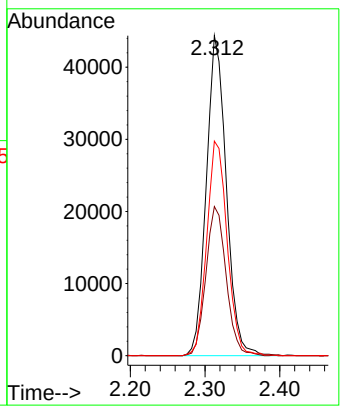


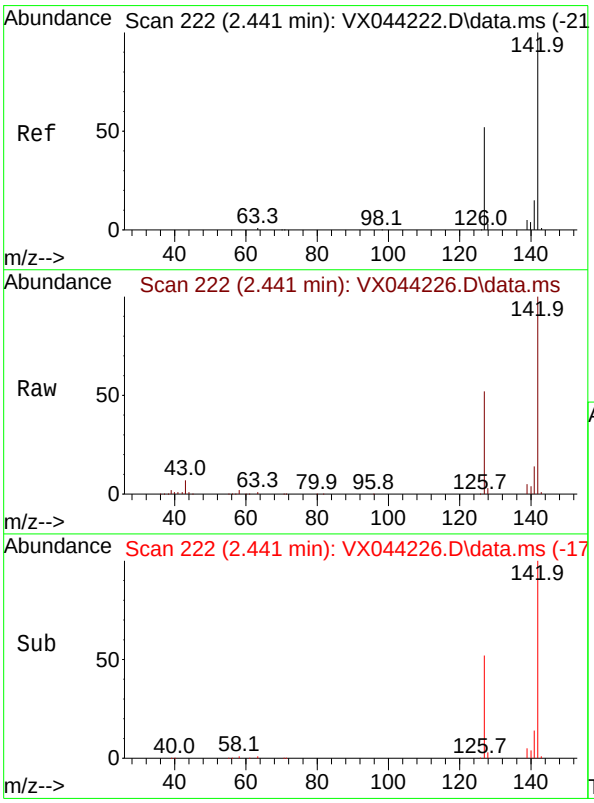
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.374 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:101 Resp: 82498

Ion	Ratio	Lower	Upper
101	100		
85	47.1	38.5	57.7
151	68.6	55.8	83.6

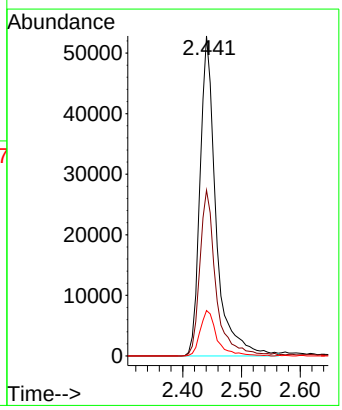


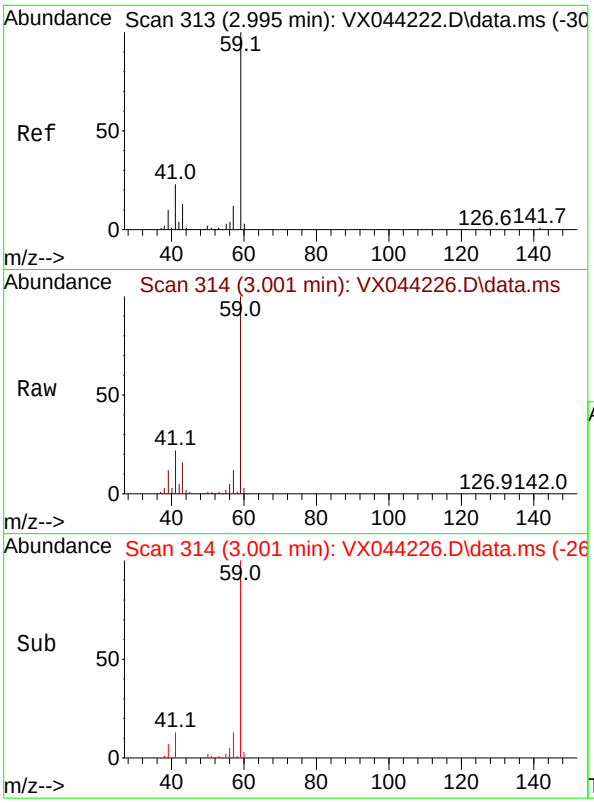


#10
Methyl Iodide
Concen: 46.349 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:142 Resp: 100043

Ion	Ratio	Lower	Upper
142	100		
127	52.3	41.8	62.8
141	14.8	11.5	17.3



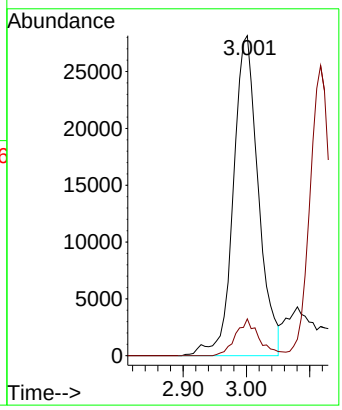


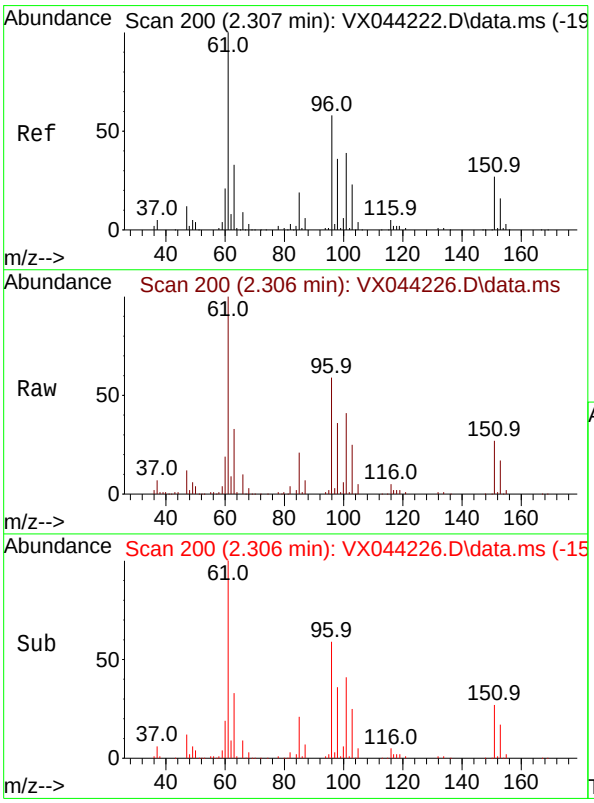
#11
Tert butyl alcohol
Concen: 233.680 ug/l
RT: 3.001 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 59 Resp: 77494

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2

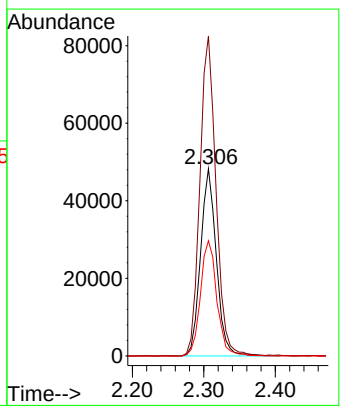


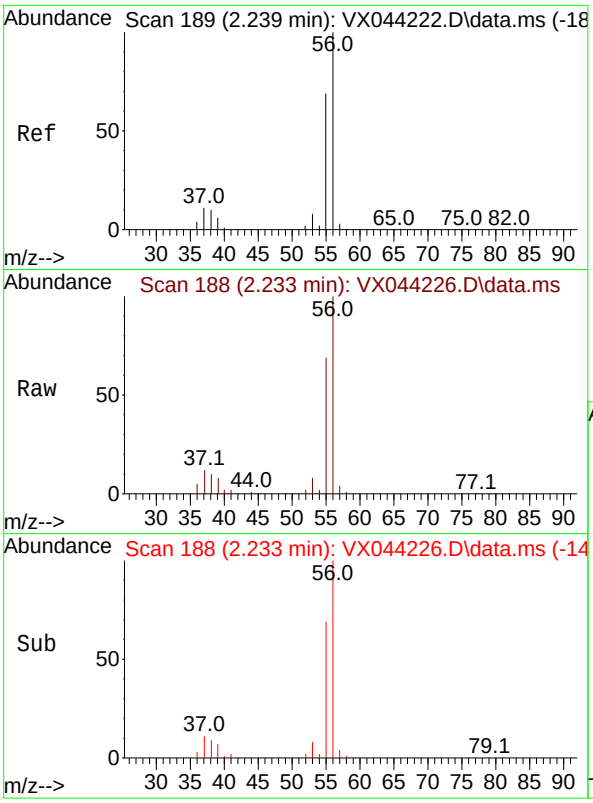


#12
1,1-Dichloroethene
Concen: 49.311 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 96 Resp: 74177

Ion	Ratio	Lower	Upper
96	100		
61	170.9	138.0	207.0
98	61.6	50.0	75.0



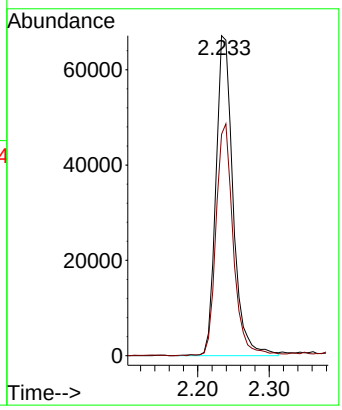


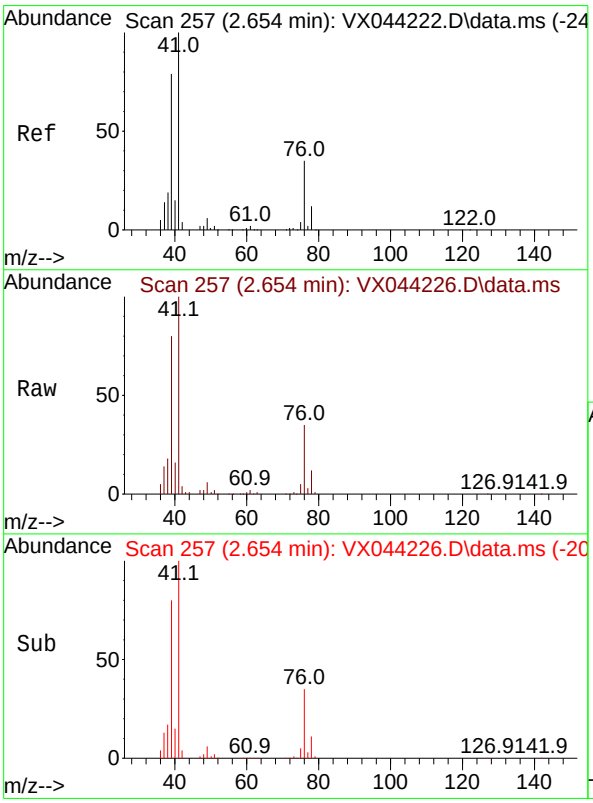
#13
Acrolein
Concen: 233.162 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 56 Resp: 111927

Ion	Ratio	Lower	Upper
56	100		
55	72.8	56.6	84.8

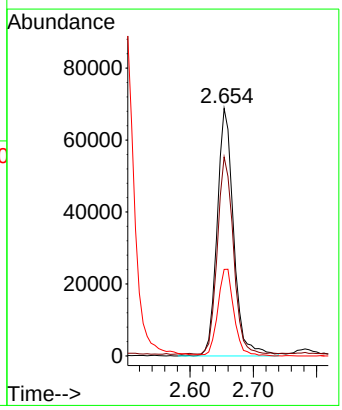


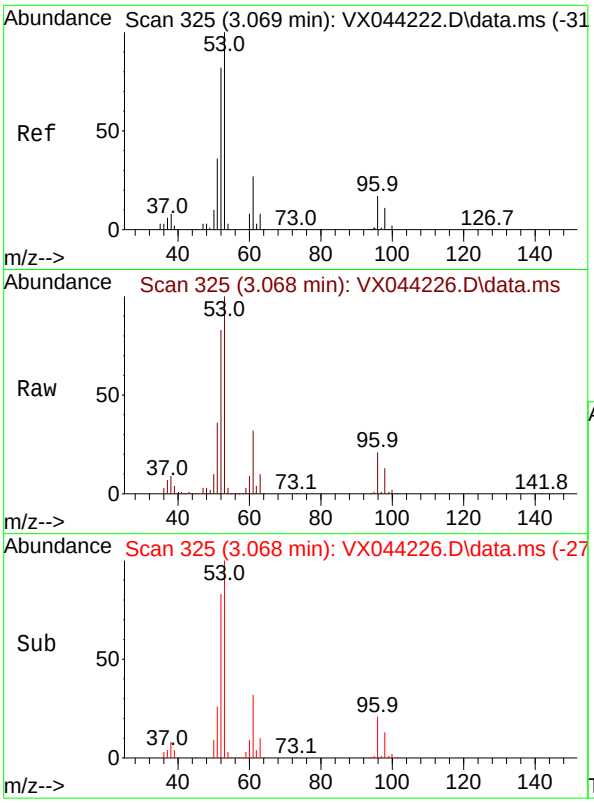


#14
Allyl chloride
Concen: 49.744 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 124635

Ion	Ratio	Lower	Upper
41	100		
39	77.3	61.9	92.9
76	34.4	27.4	41.2



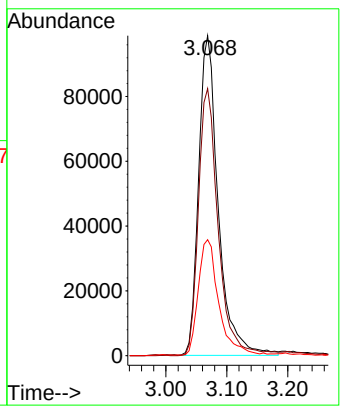


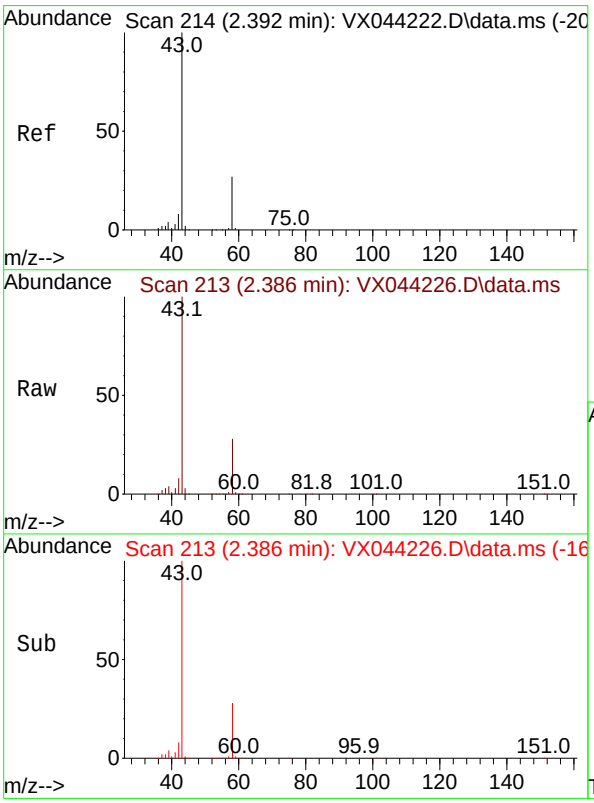
#15
Acrylonitrile
Concen: 240.620 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 53 Resp: 221037

Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.4	101.0
51	37.6	30.3	45.5

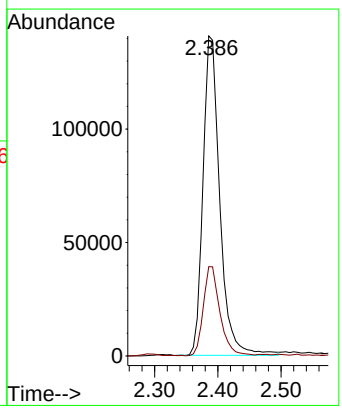


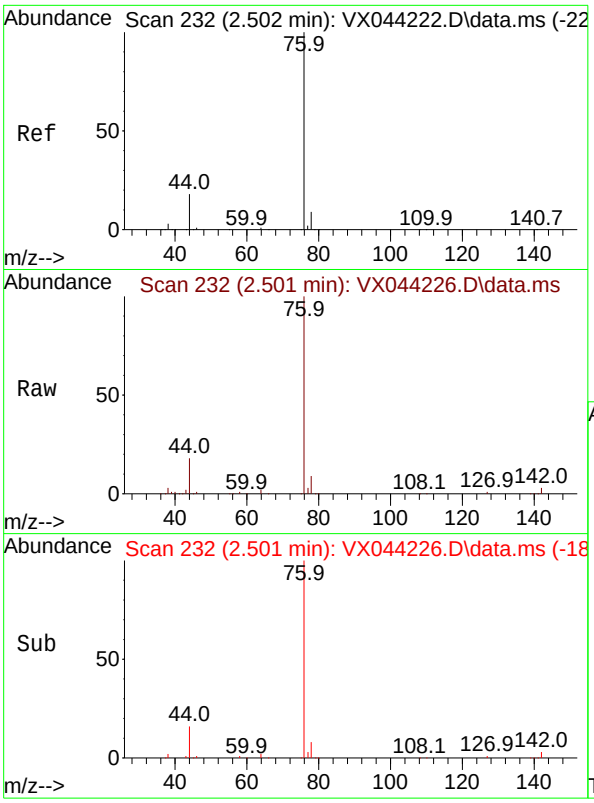


#16
Acetone
Concen: 271.312 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 260267

Ion	Ratio	Lower	Upper
43	100		
58	27.8	21.6	32.4



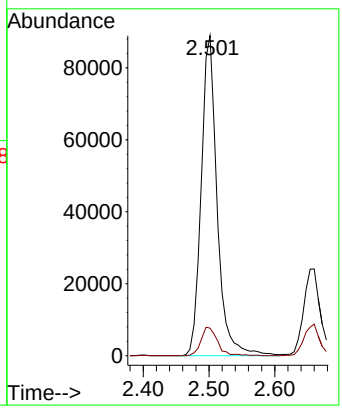


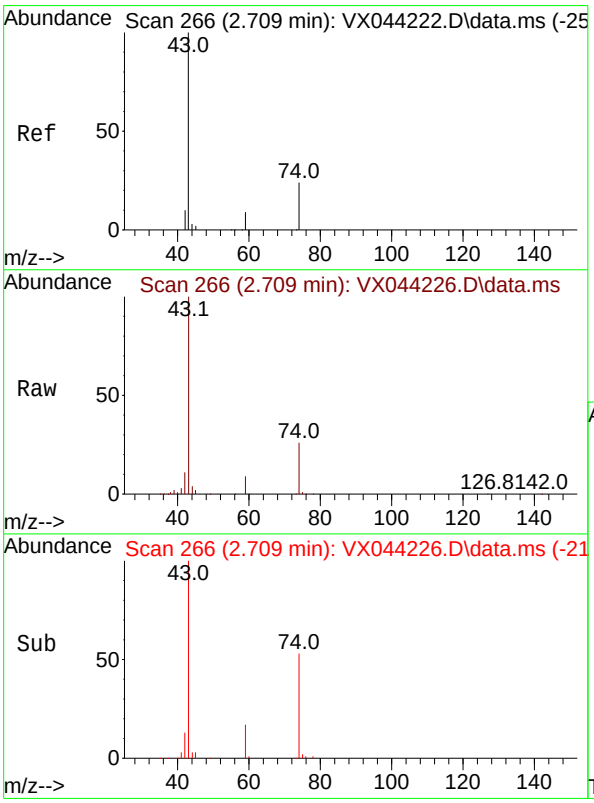
#17
Carbon Disulfide
Concen: 52.397 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 76 Resp: 149824

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.4	11.0

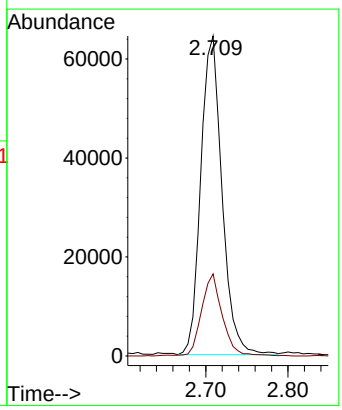


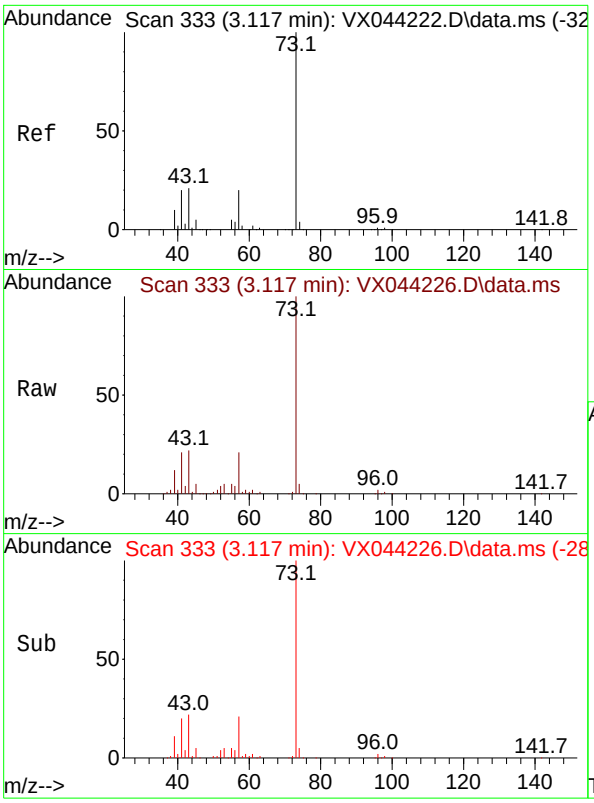


#18
Methyl Acetate
Concen: 46.725 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 115569

Ion	Ratio	Lower	Upper
43	100		
74	25.3	17.7	26.5



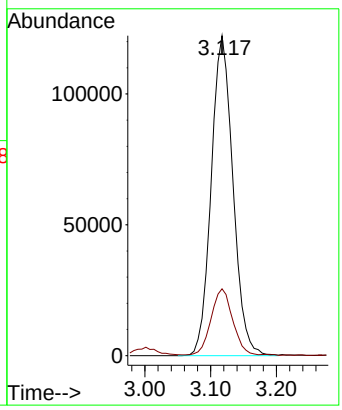


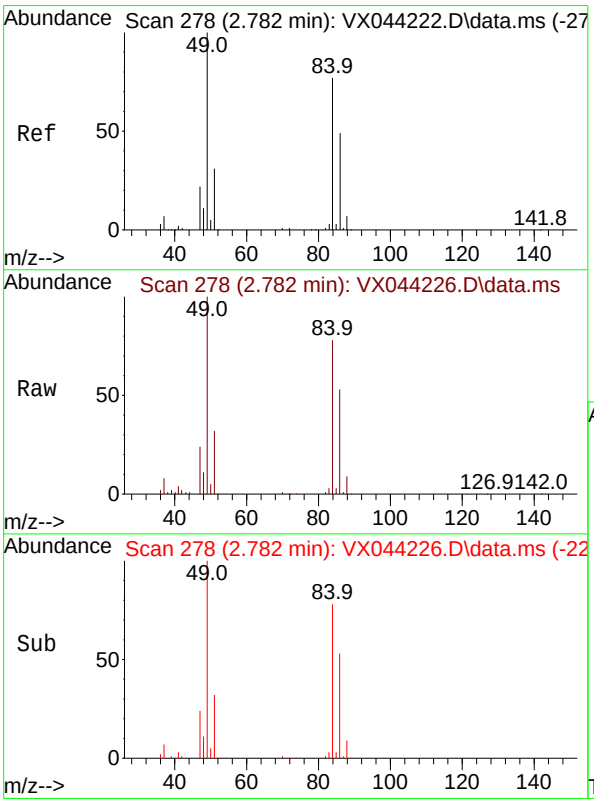
#19
Methyl tert-butyl Ether
Concen: 47.940 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 73 Resp: 281413

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4

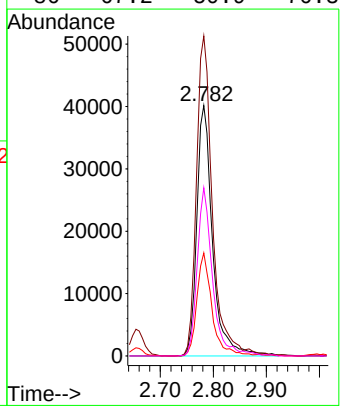


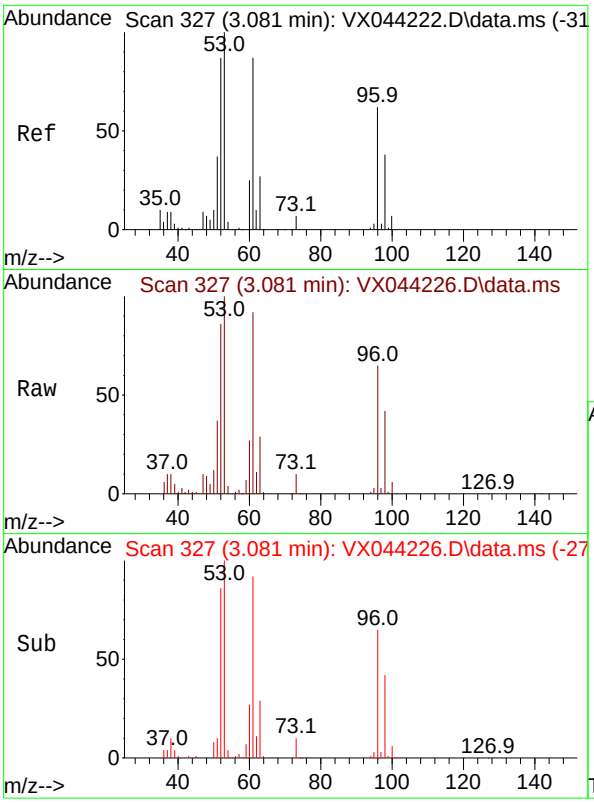


#20
Methylene Chloride
Concen: 46.170 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 84 Resp: 83188

Ion	Ratio	Lower	Upper
84	100		
49	127.6	104.2	156.4
51	41.1	32.2	48.4
86	67.2	50.9	76.3



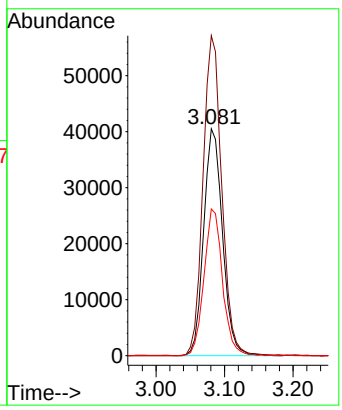


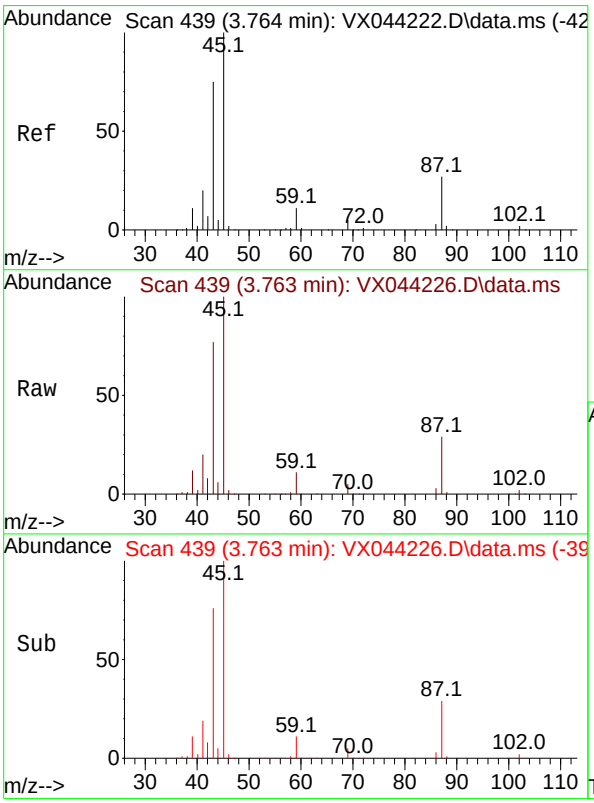
#21
trans-1,2-Dichloroethene
Concen: 48.459 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 96 Resp: 77471

Ion	Ratio	Lower	Upper
96	100		
61	141.0	112.0	168.0
98	64.7	48.8	73.2

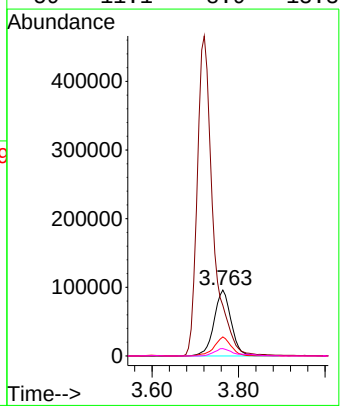


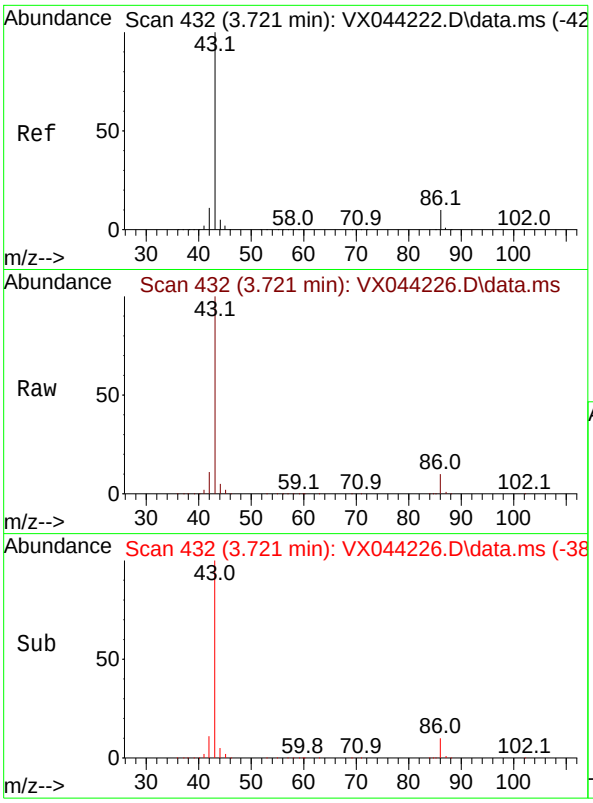


#22
Diisopropyl ether
Concen: 46.922 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 45 Resp: 264732

Ion	Ratio	Lower	Upper
45	100		
43	76.6	60.2	90.2
87	28.8	21.2	31.8
59	11.1	8.9	13.3



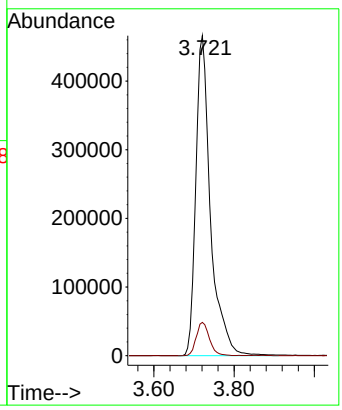


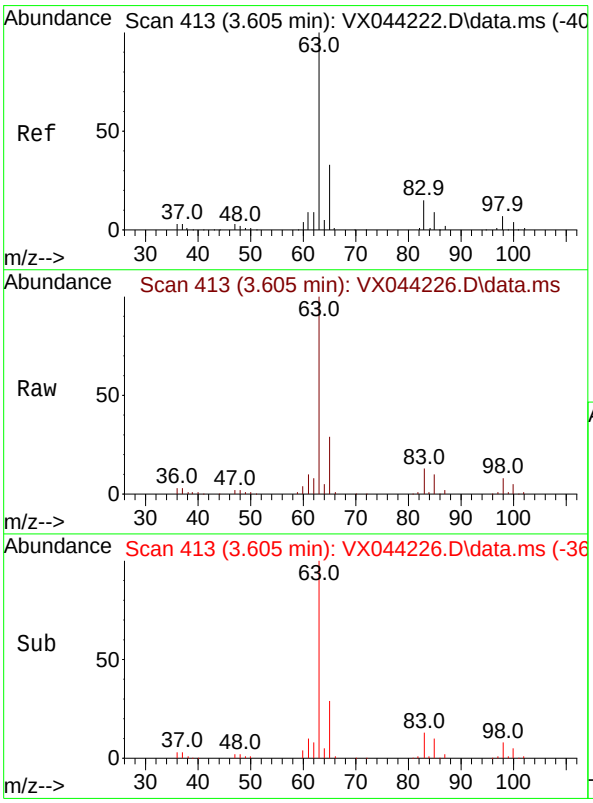
#23
Vinyl Acetate
Concen: 258.510 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 1185779

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.2	12.2

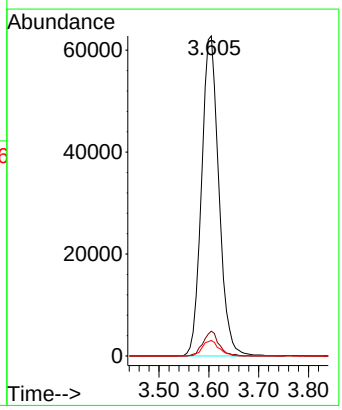


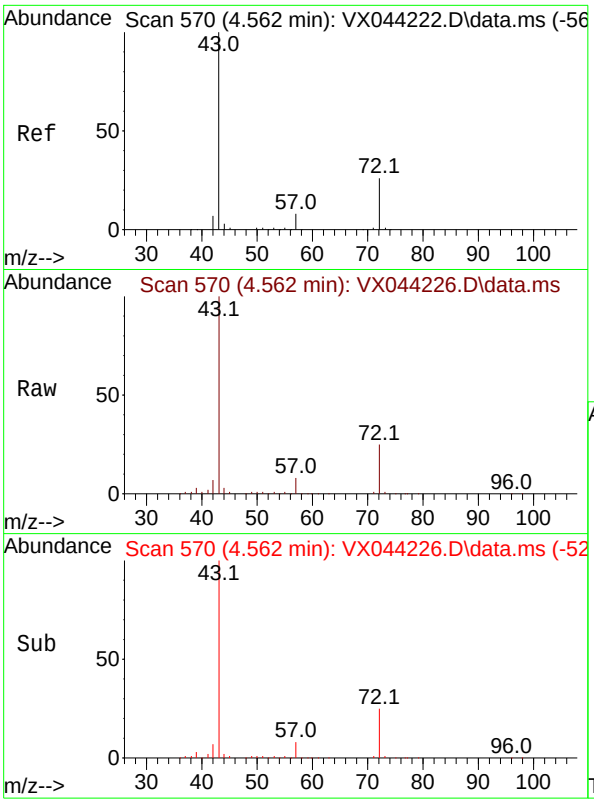


#24
1,1-Dichloroethane
Concen: 48.056 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 151134

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.6	10.8
100	4.8	2.1	6.3



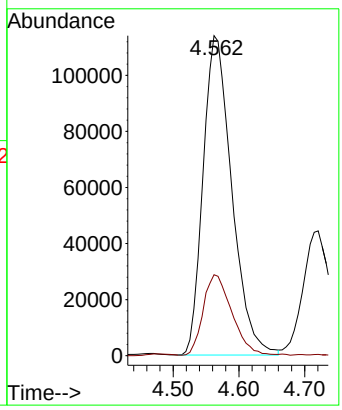


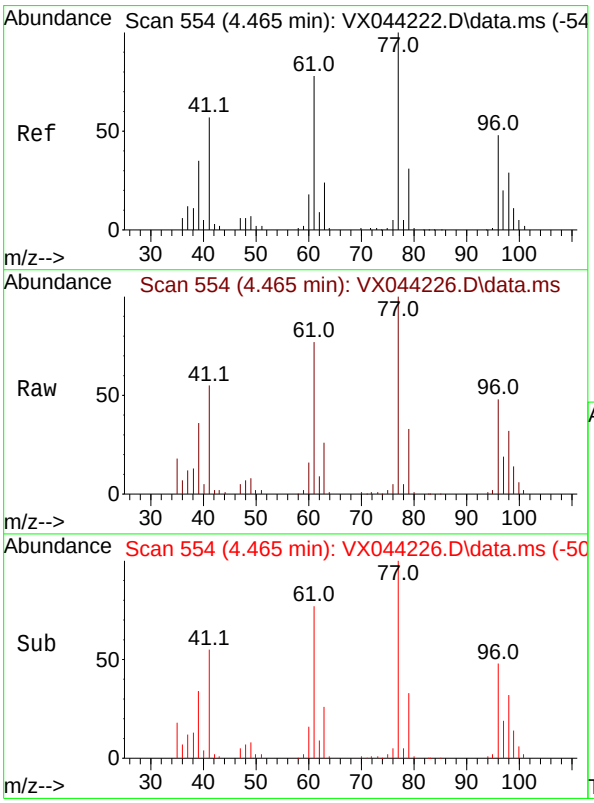
#25
2-Butanone
Concen: 253.747 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 346052

Ion	Ratio	Lower	Upper
43	100		
72	25.2	20.2	30.4

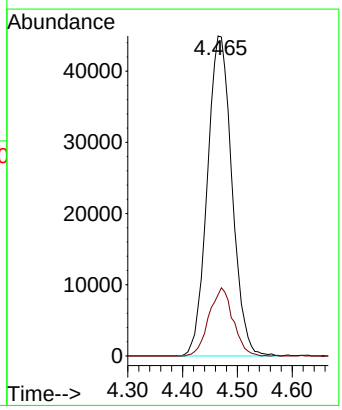


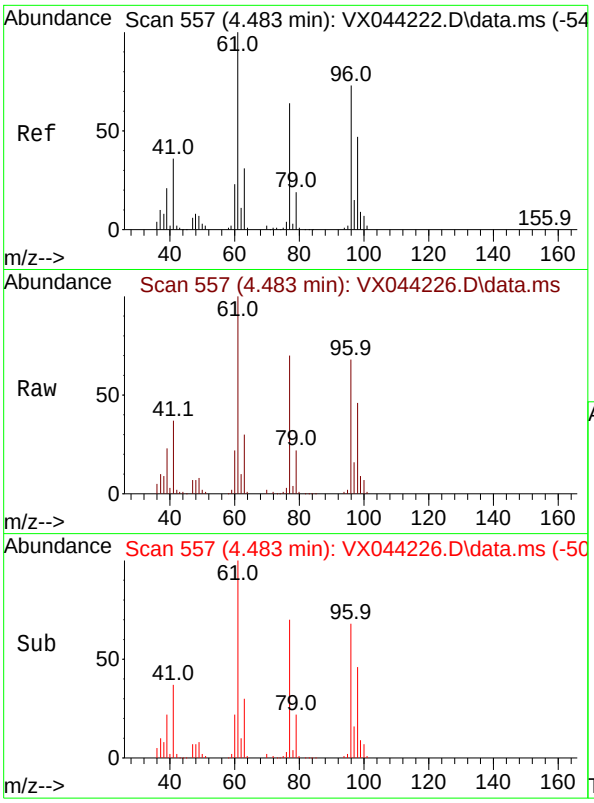


#26
2,2-Dichloropropane
Concen: 54.872 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 77 Resp: 140196

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.7	32.1



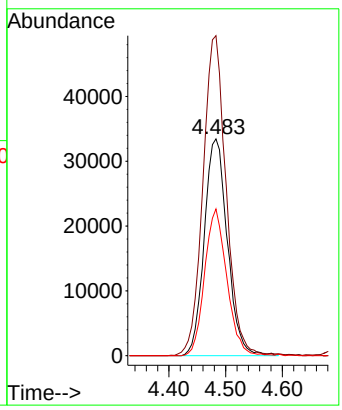


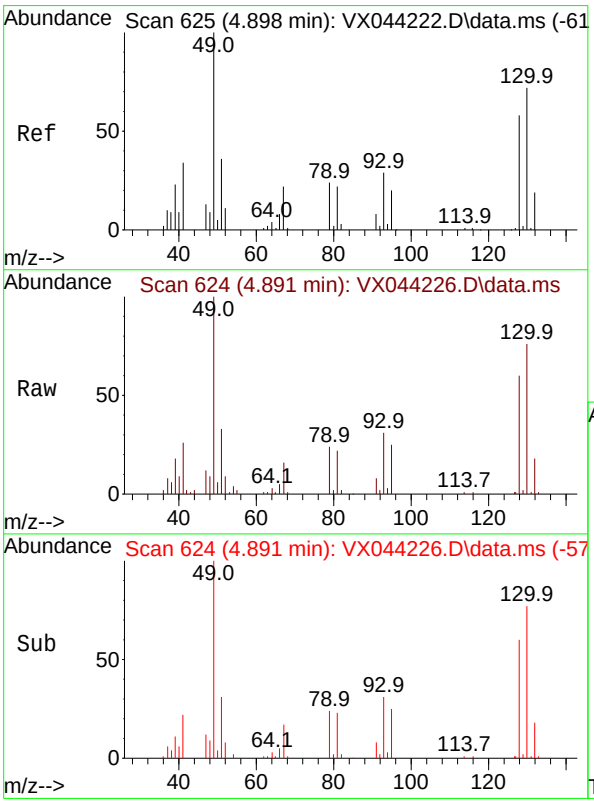
#27
cis-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 96 Resp: 94838

Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	299.0
98	64.9	0.0	129.0

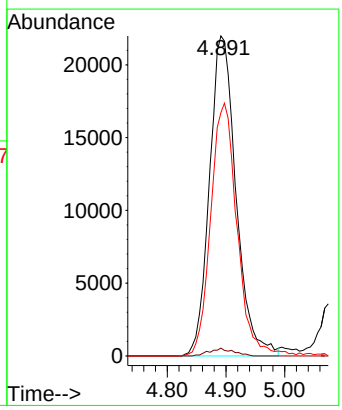


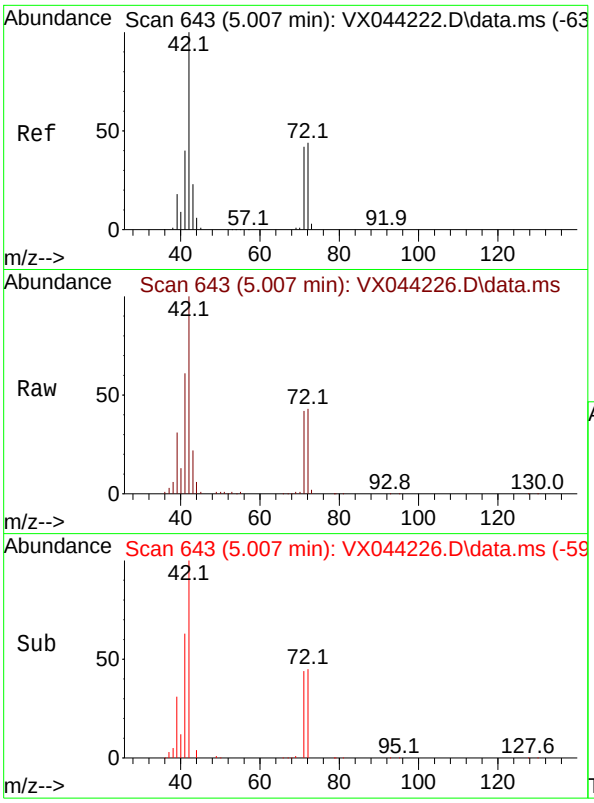


#28
Bromochloromethane
Concen: 44.832 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 49 Resp: 69139

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	78.1	62.1	93.1



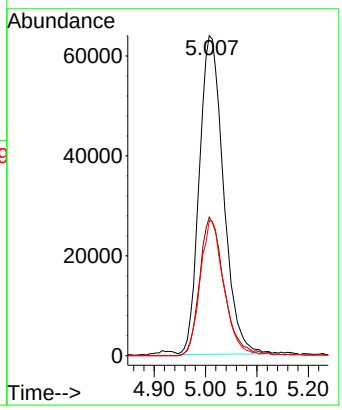


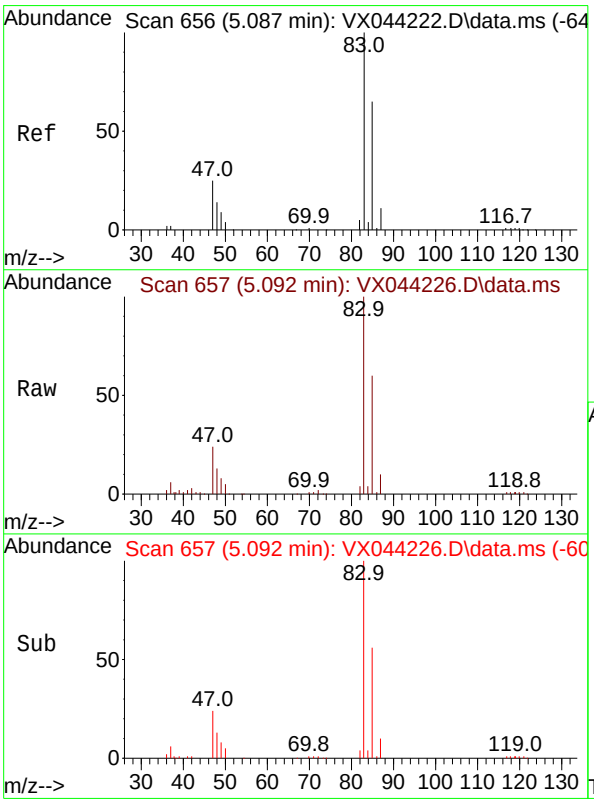
#29
Tetrahydrofuran
Concen: 238.031 ug/l
RT: 5.007 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 42 Resp: 208362

Ion	Ratio	Lower	Upper
42	100		
72	44.2	37.0	55.6
71	41.5	33.6	50.4

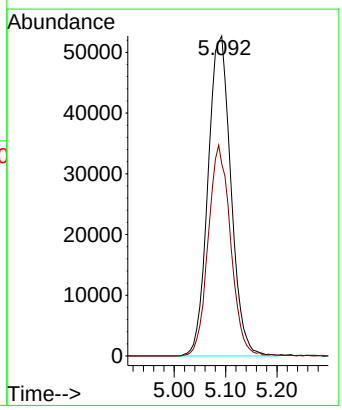


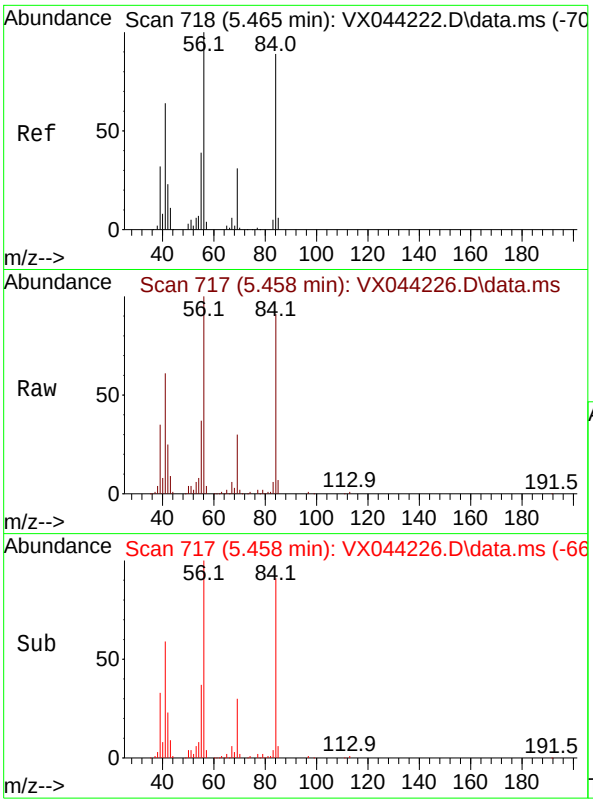


#30
Chloroform
Concen: 46.235 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 83 Resp: 163372

Ion	Ratio	Lower	Upper
83	100		
85	60.0	51.6	77.4



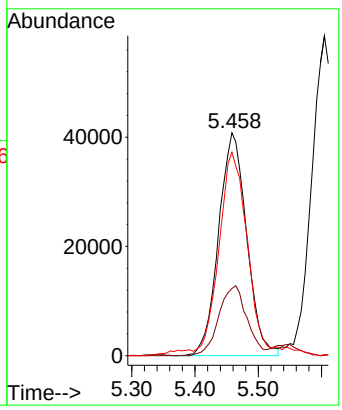


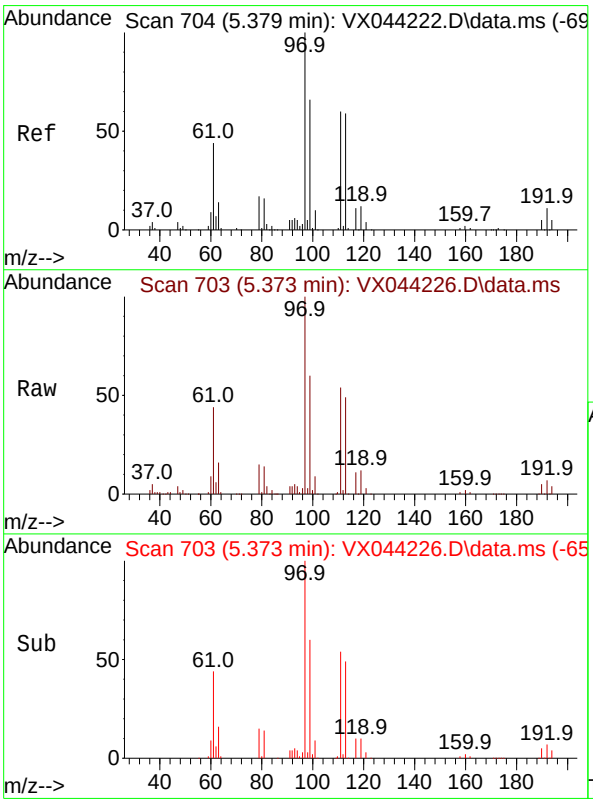
#31
Cyclohexane
Concen: 49.443 ug/l
RT: 5.458 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 56 Resp: 125567

Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.7	37.1
84	88.8	71.0	106.6

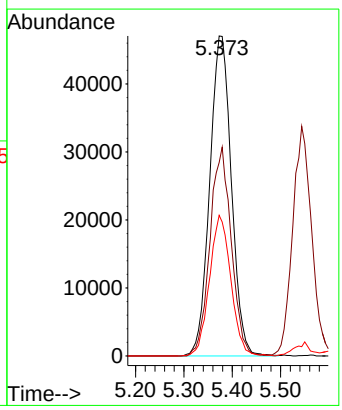


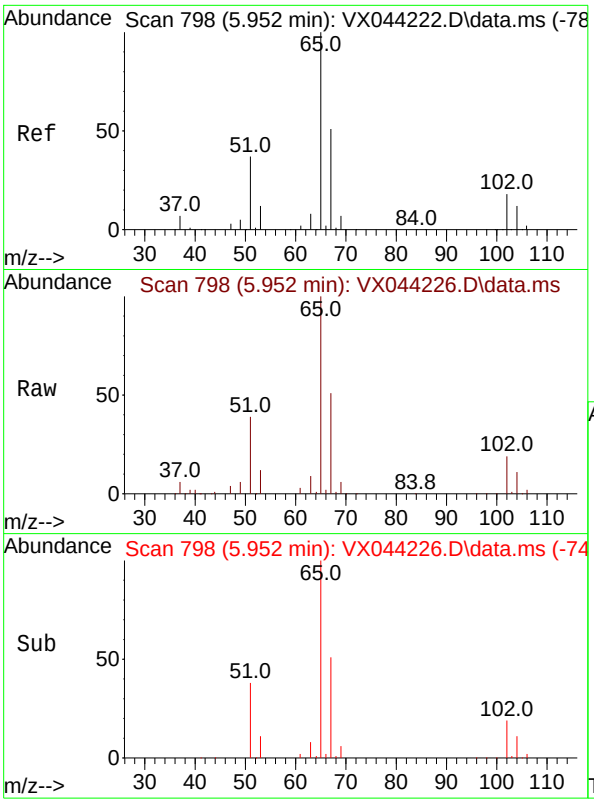


#32
1,1,1-Trichloroethane
Concen: 49.895 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 97 Resp: 146348

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.8	76.2
61	43.3	35.2	52.8



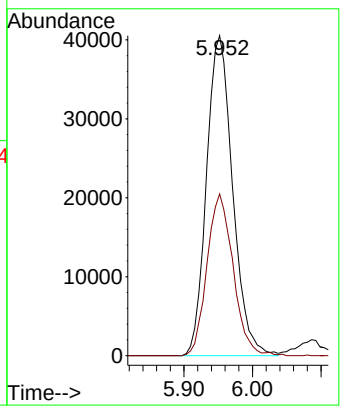


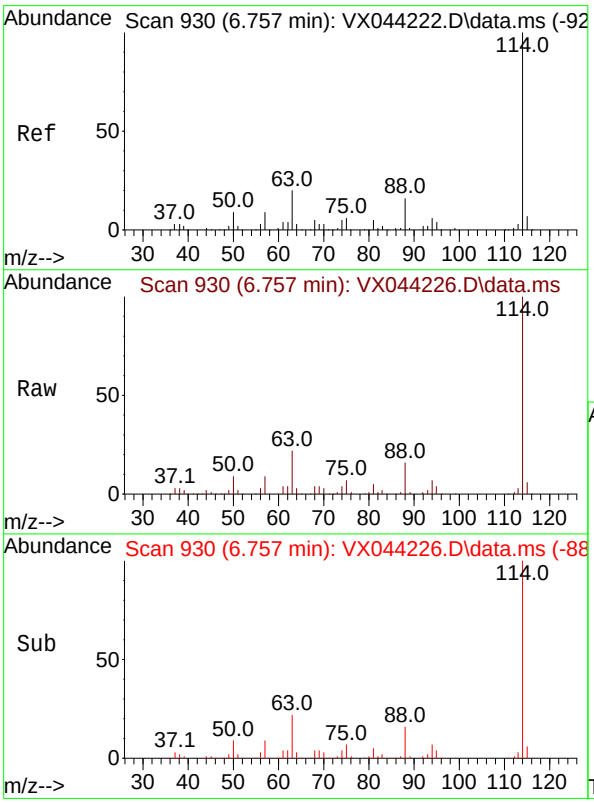
#33
1,2-Dichloroethane-d4
Concen: 45.646 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 65 Resp: 107407

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6

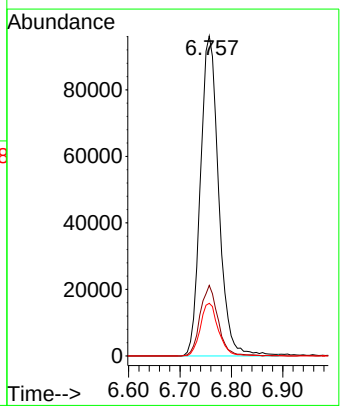


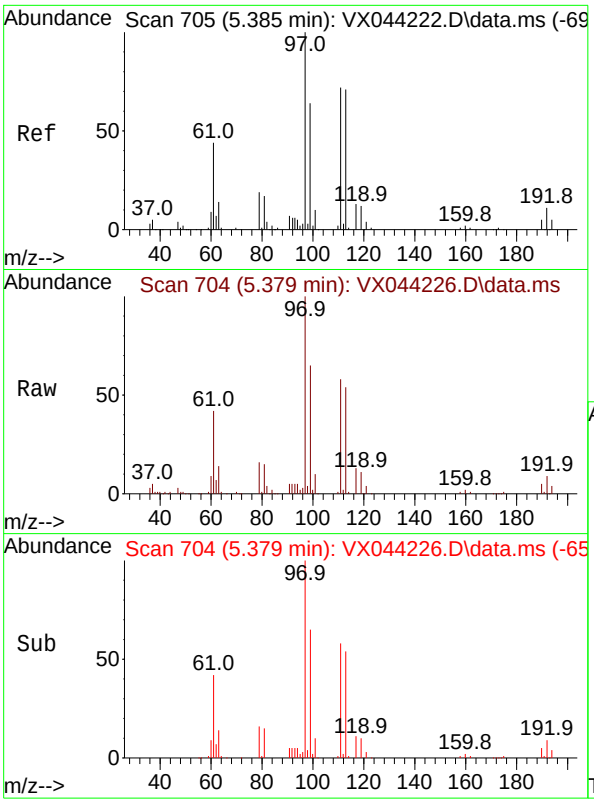


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:114 Resp: 237295

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.4	0.0	31.8



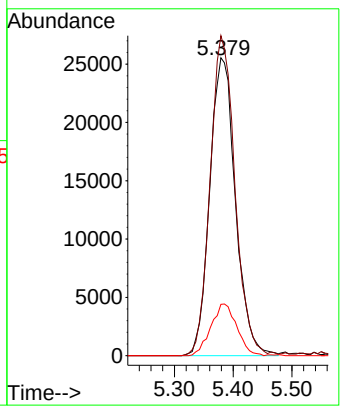


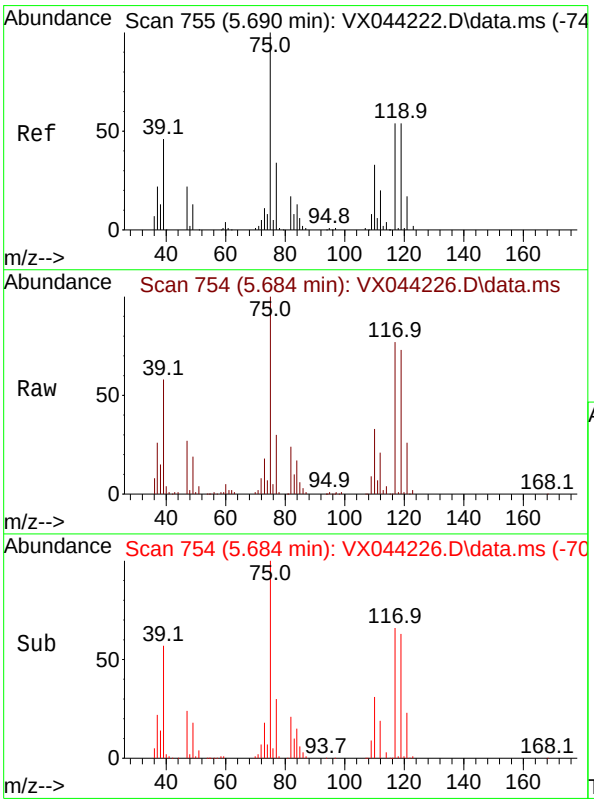
#35
Dibromofluoromethane
Concen: 47.228 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:113 Resp: 77619

Ion	Ratio	Lower	Upper
113	100		
111	103.8	80.4	120.6
192	17.5	13.3	19.9

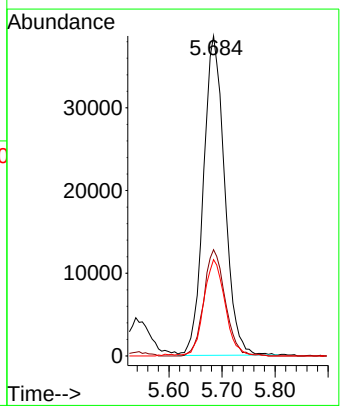


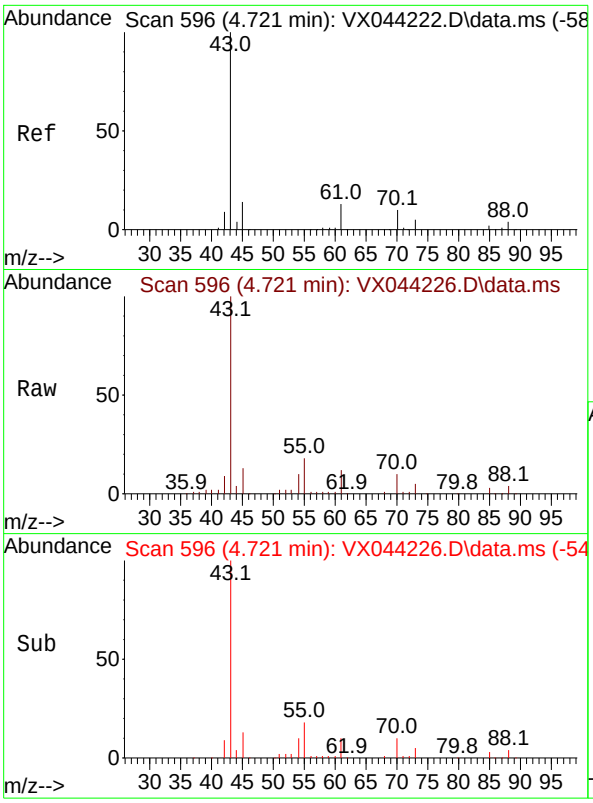


#36
1,1-Dichloropropene
Concen: 50.314 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 106889

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.3	51.7
77	30.5	25.4	38.0



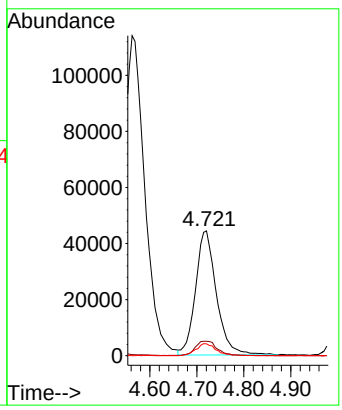


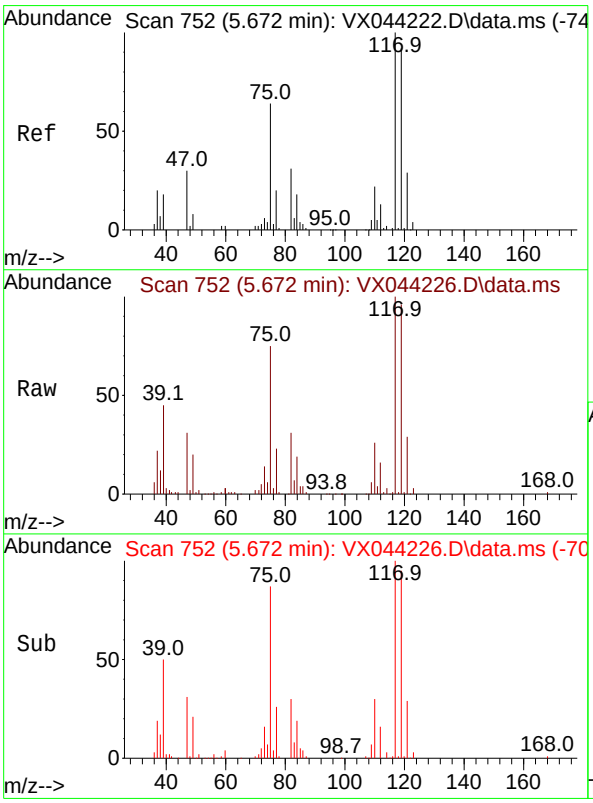
#37
Ethyl Acetate
Concen: 52.176 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 137017

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.7	11.5

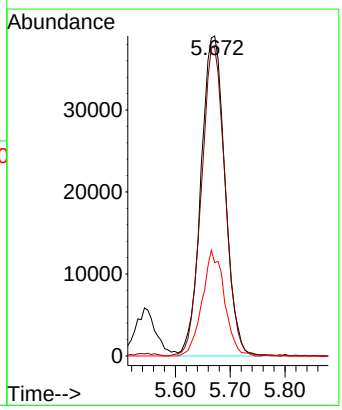


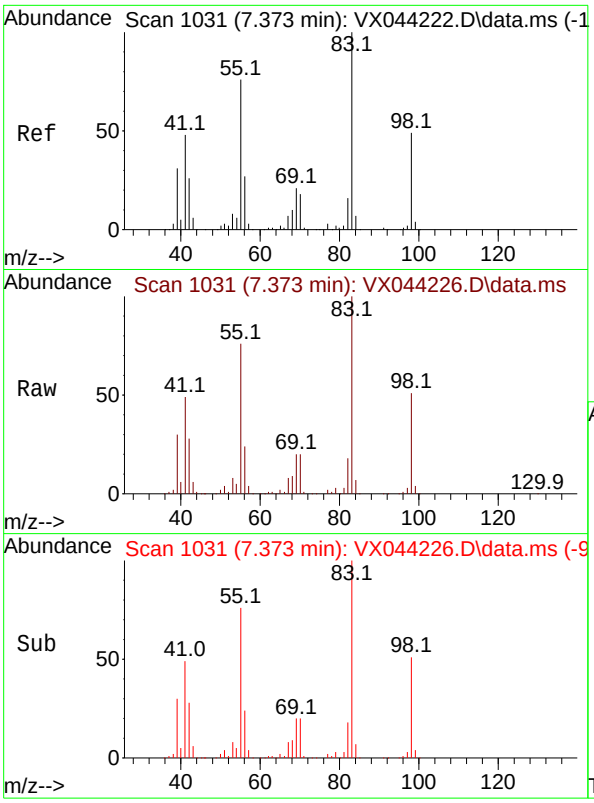


#38
Carbon Tetrachloride
Concen: 51.763 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 118390

Ion	Ratio	Lower	Upper
117	100		
119	96.0	74.2	111.4
121	29.1	23.0	34.6



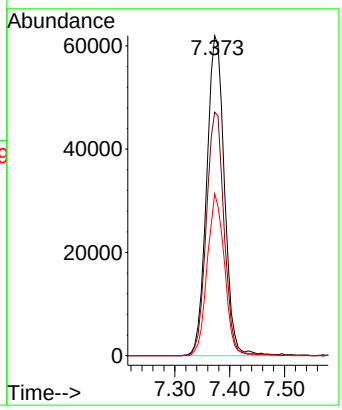


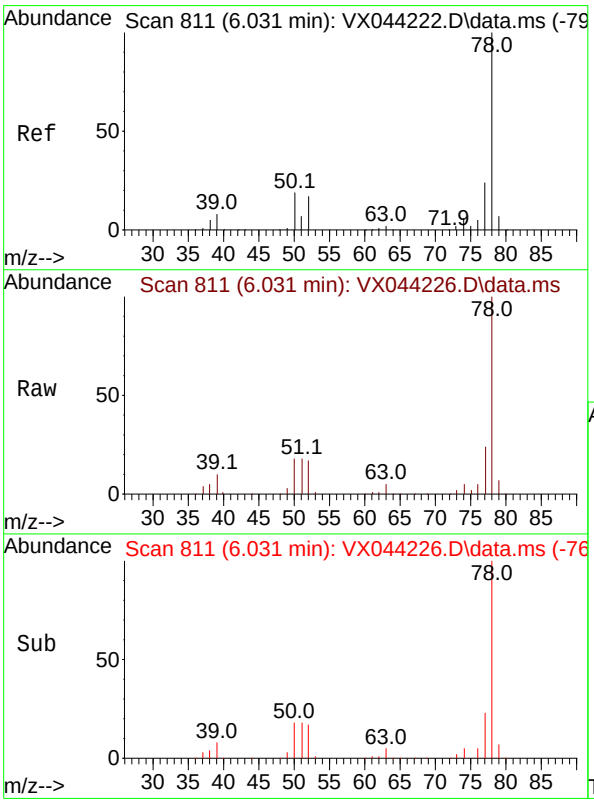
#39
Methylcyclohexane
Concen: 54.761 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 83 Resp: 139077

Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.7	91.1
98	50.6	38.9	58.3

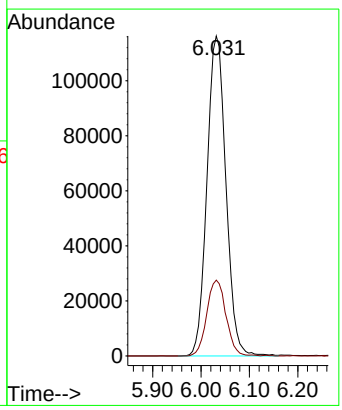


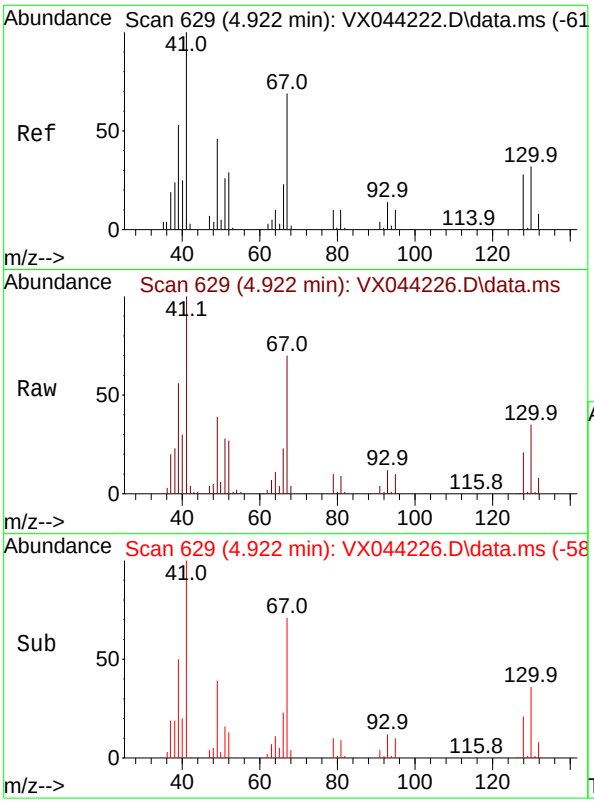


#40
Benzene
Concen: 49.052 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 78 Resp: 316391

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9



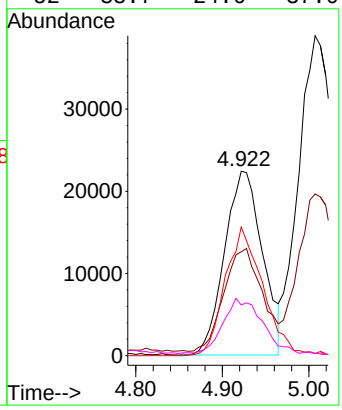


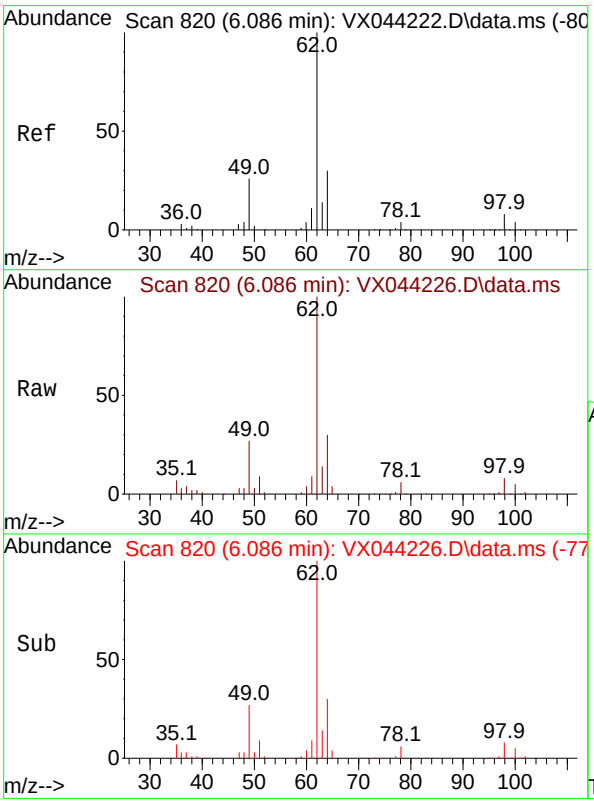
#41
Methacrylonitrile
Concen: 48.945 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 41 Resp: 68251

Ion	Ratio	Lower	Upper
41	100		
39	56.3	44.2	66.4
67	69.8	57.2	85.8
52	33.7	24.6	37.0

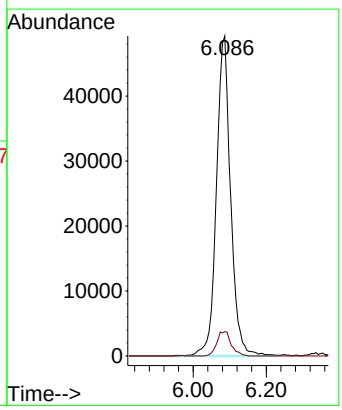


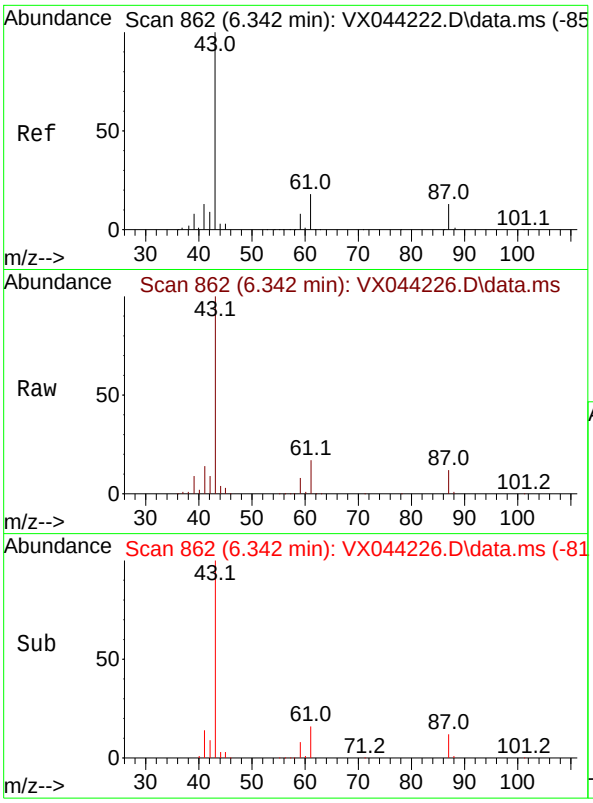


#42
1,2-Dichloroethane
Concen: 49.960 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 62 Resp: 132744

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.8



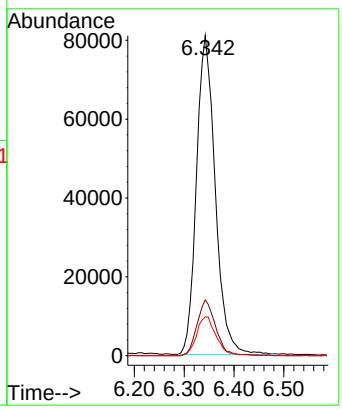


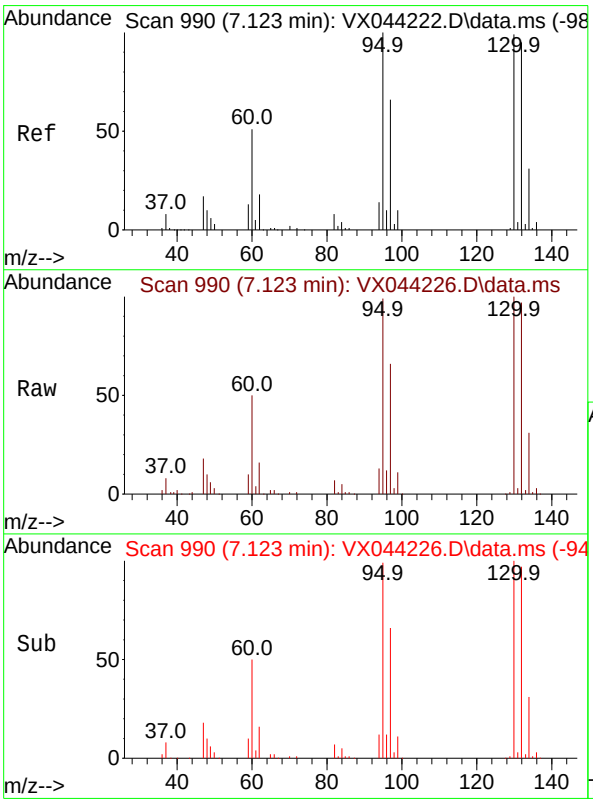
#43
Isopropyl Acetate
Concen: 51.624 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 211889

Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.2	21.2
87	12.7	10.2	15.2

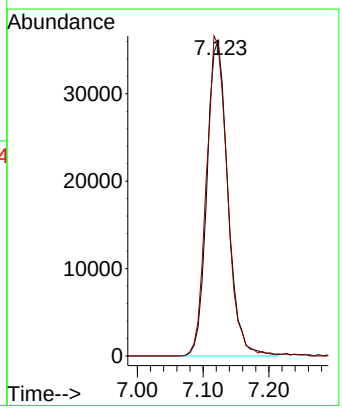


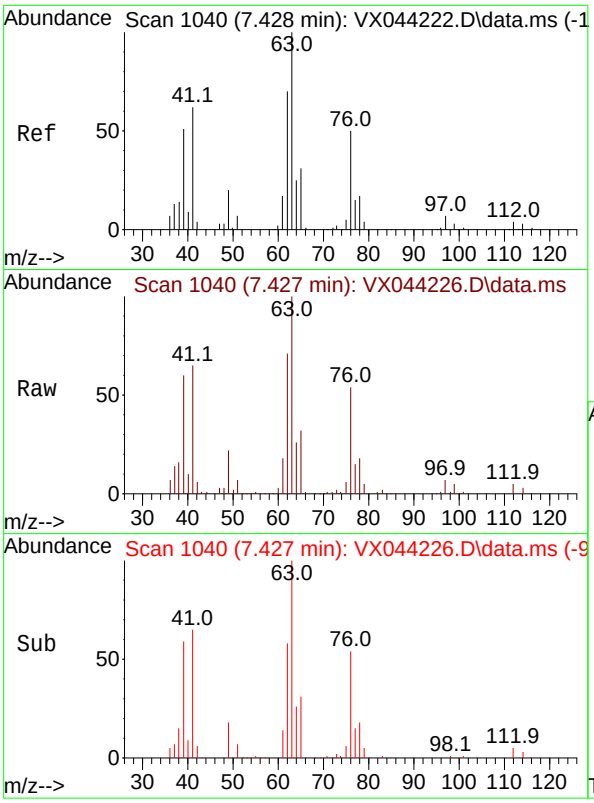


#44
Trichloroethene
Concen: 49.741 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:130 Resp: 80008

Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	201.4



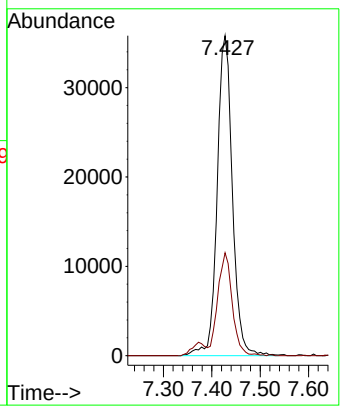


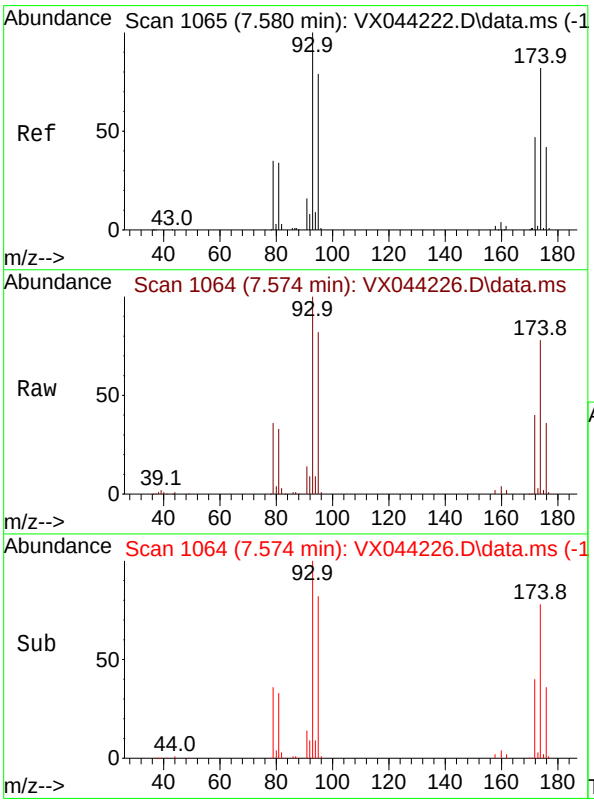
#45
1,2-Dichloropropane
Concen: 47.528 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 63 Resp: 78321

Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.6	37.0

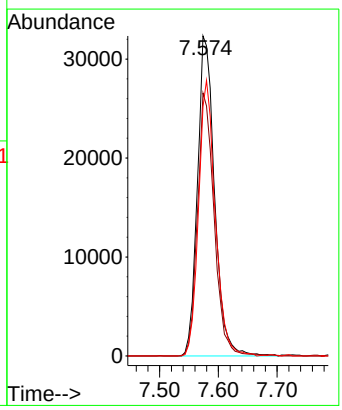


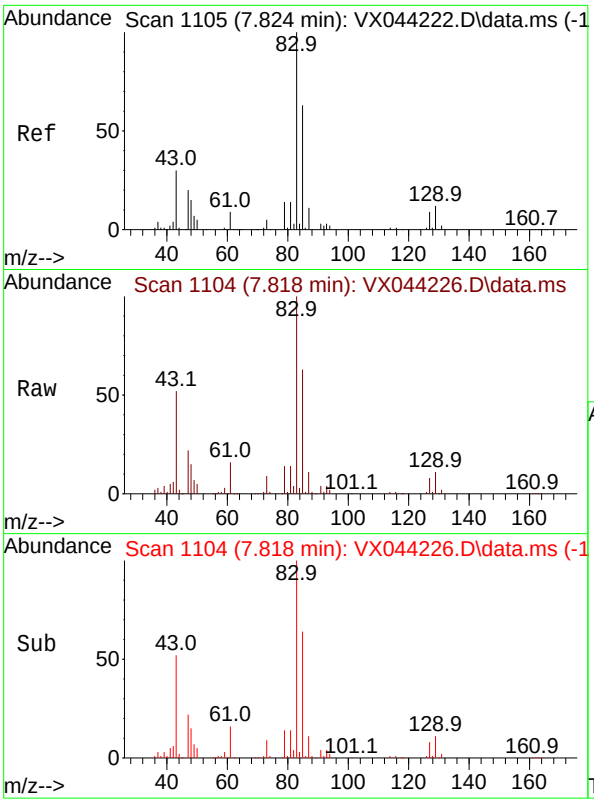


#46
Dibromomethane
Concen: 51.227 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 93 Resp: 65491

Ion	Ratio	Lower	Upper
93	100		
95	80.5	65.4	98.2
174	84.0	67.9	101.9



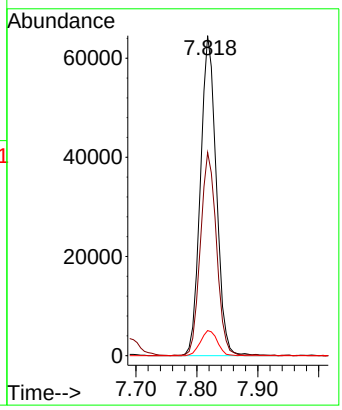


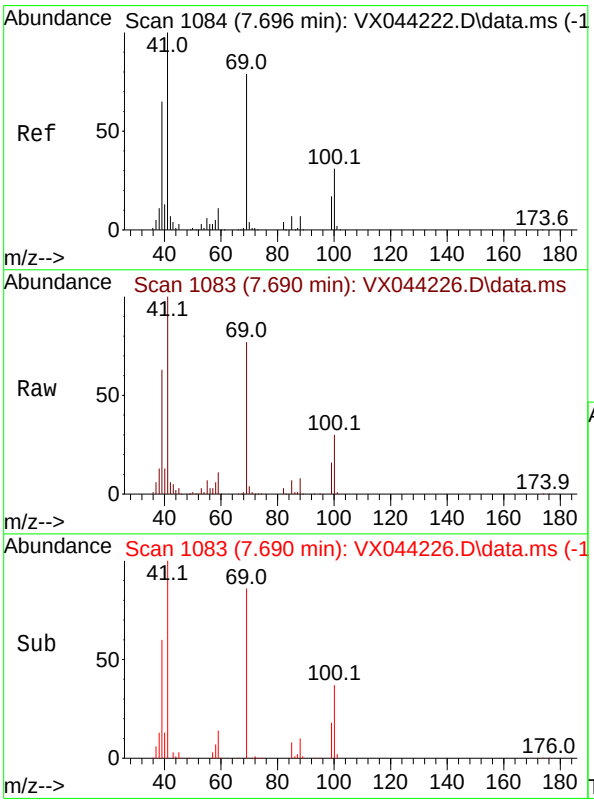
#47
Bromodichloromethane
Concen: 52.893 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 83 Resp: 116783

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.6	75.8
127	7.9	7.3	10.9

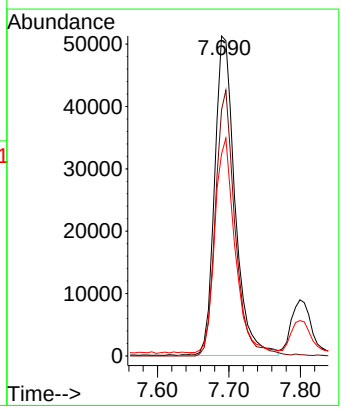


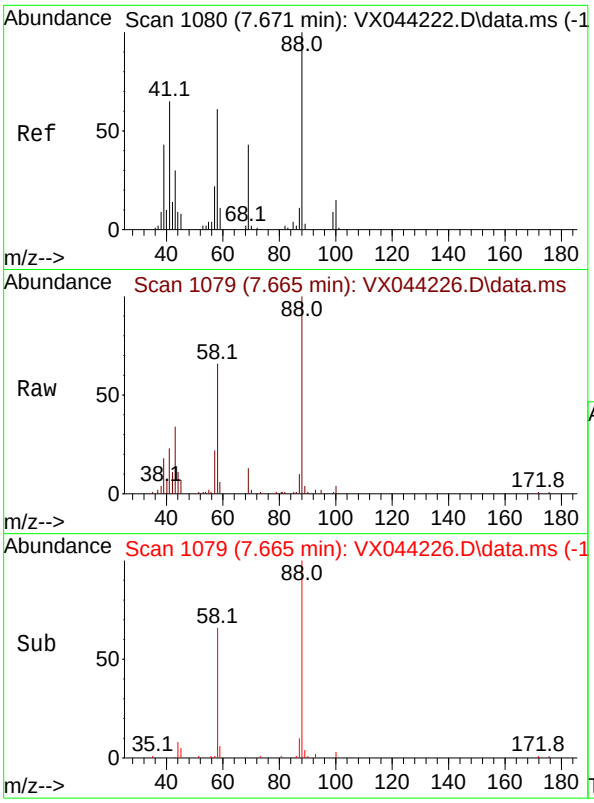


#48
Methyl methacrylate
Concen: 50.852 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 41 Resp: 101318

Ion	Ratio	Lower	Upper
41	100		
69	79.9	62.4	93.6
39	66.0	53.3	79.9



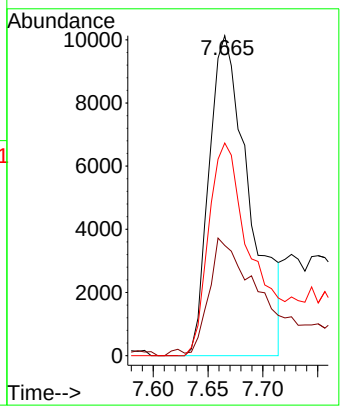


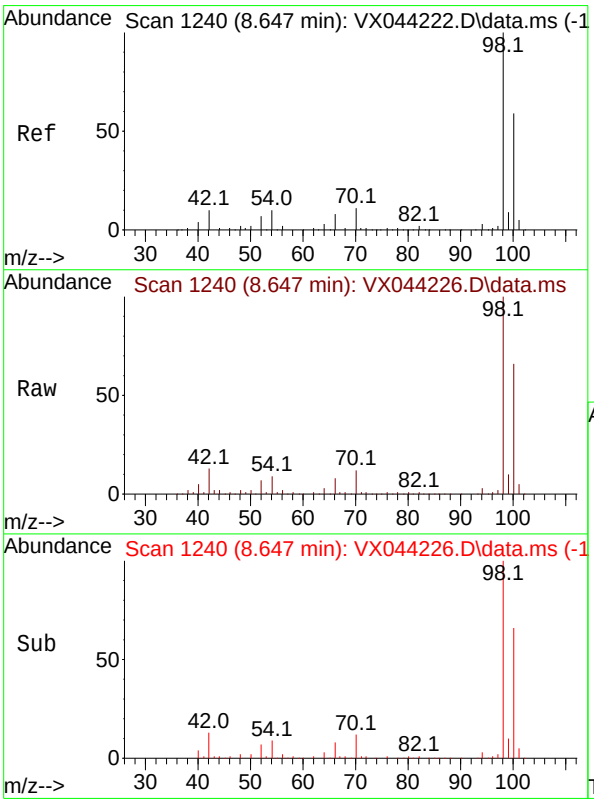
#49
1,4-Dioxane
Concen: 791.313 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 88 Resp: 26140

Ion	Ratio	Lower	Upper
88	100		
43	51.8	27.1	40.7#
58	70.7	41.0	61.4#

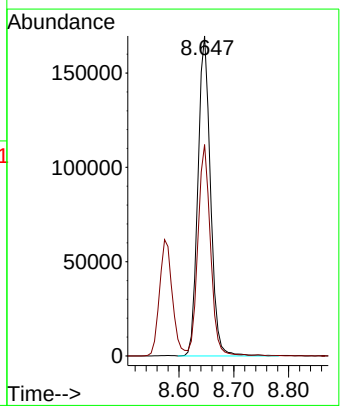


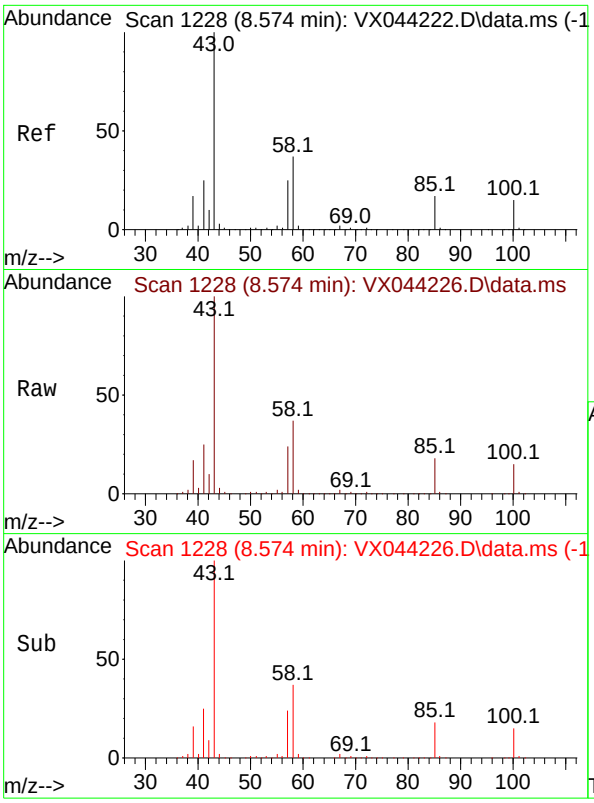


#50
Toluene-d8
Concen: 48.968 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 98 Resp: 271508

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.5	77.3



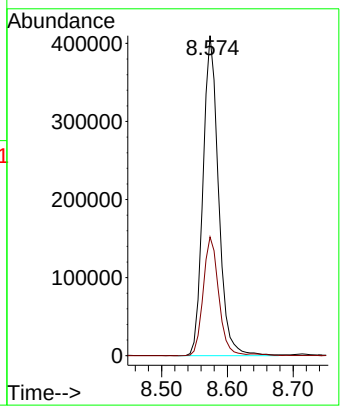


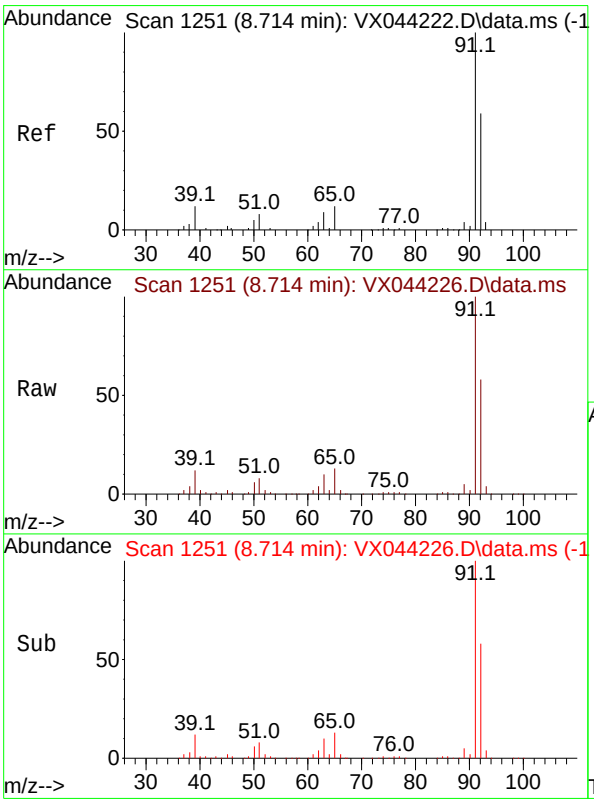
#51
4-Methyl-2-Pentanone
Concen: 255.038 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 673069

Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.4	44.0

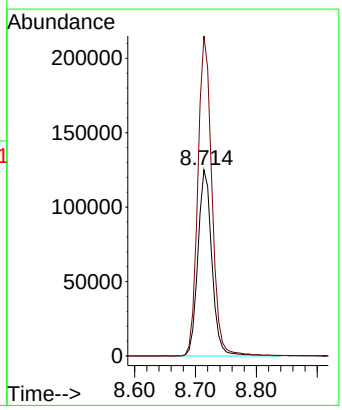


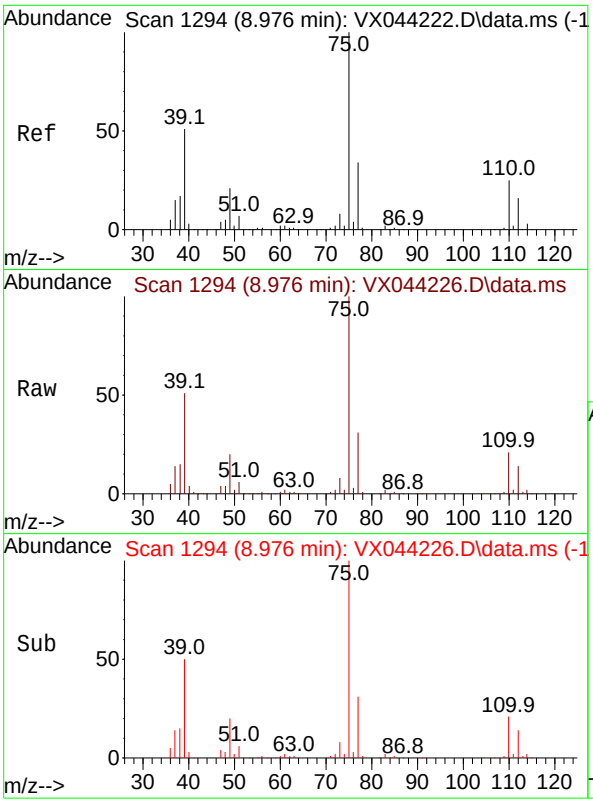


#52
Toluene
Concen: 49.199 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 92 Resp: 199281

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.0	205.6



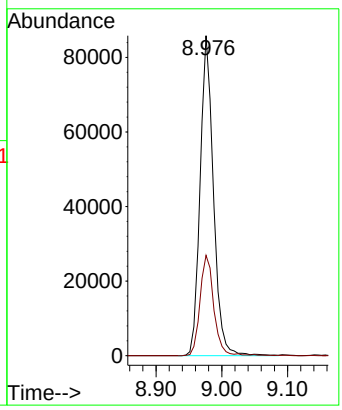


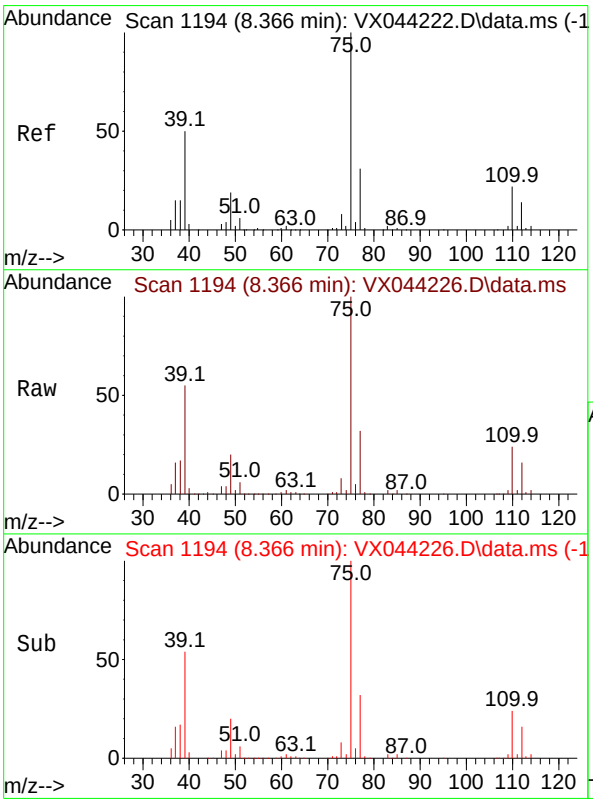
#53
t-1,3-Dichloropropene
Concen: 50.864 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 75 Resp: 120696

Ion	Ratio	Lower	Upper
75	100		
77	31.4	27.2	40.8

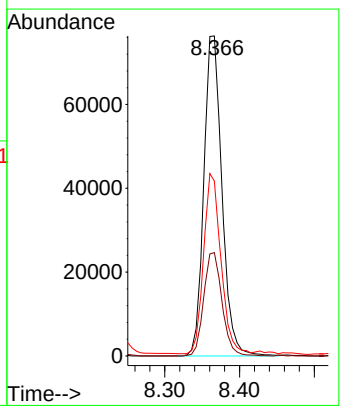


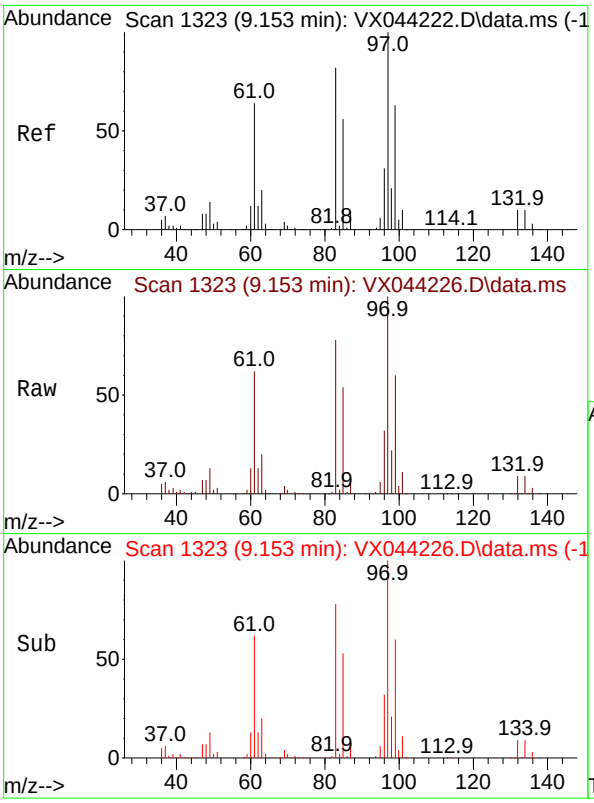


#54
cis-1,3-Dichloropropene
Concen: 53.607 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 128875

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	53.9	40.3	60.5



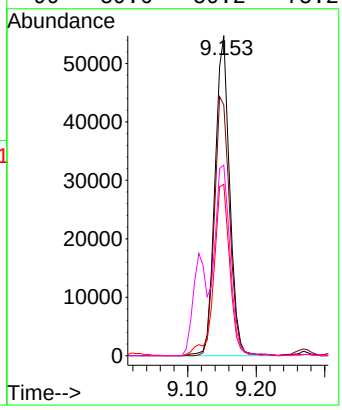


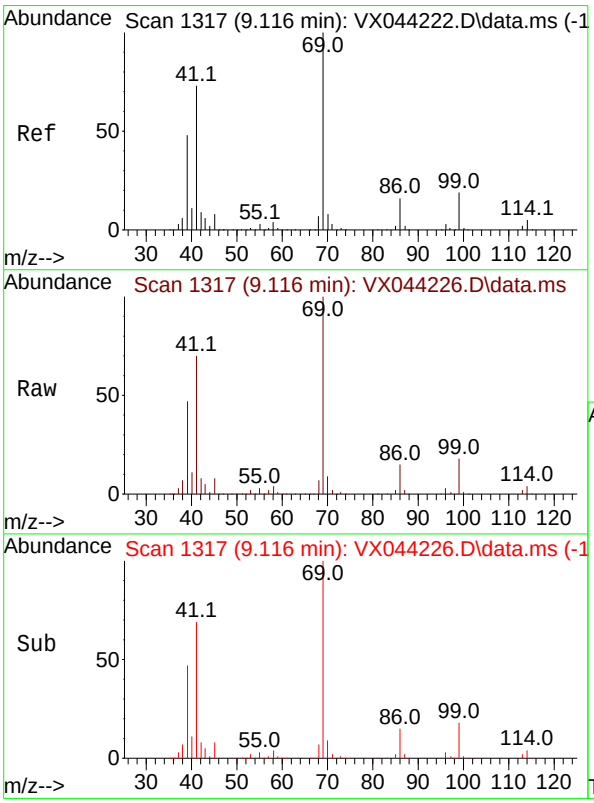
#55
1,1,2-Trichloroethane
Concen: 50.562 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 97 Resp: 81362

Ion	Ratio	Lower	Upper
97	100		
83	78.3	65.3	97.9
85	53.6	44.6	67.0
99	59.6	50.2	75.2

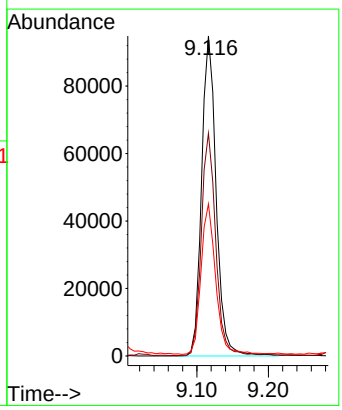


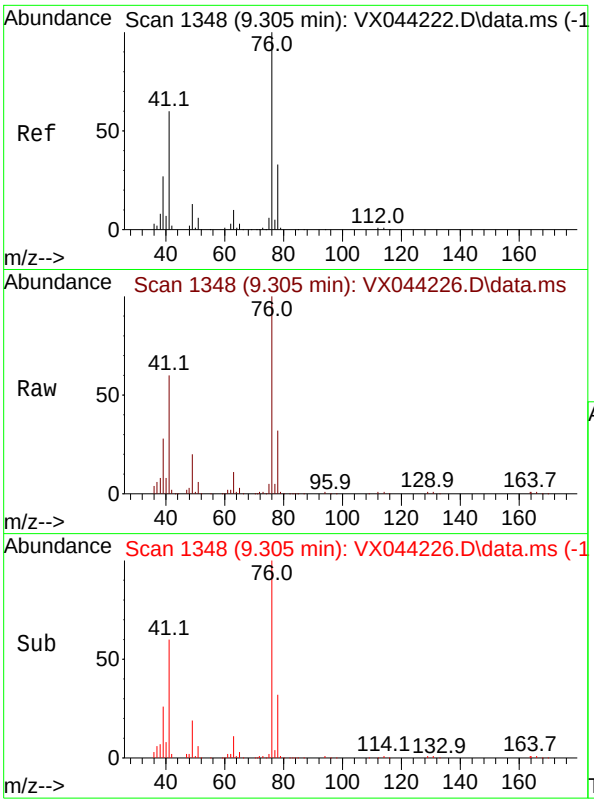


#56
Ethyl methacrylate
Concen: 52.890 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 69 Resp: 134357

Ion	Ratio	Lower	Upper
69	100		
41	68.6	56.6	85.0
39	47.2	37.4	56.0



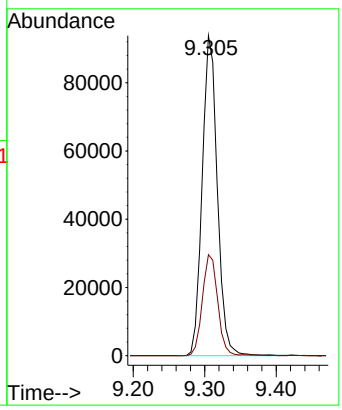


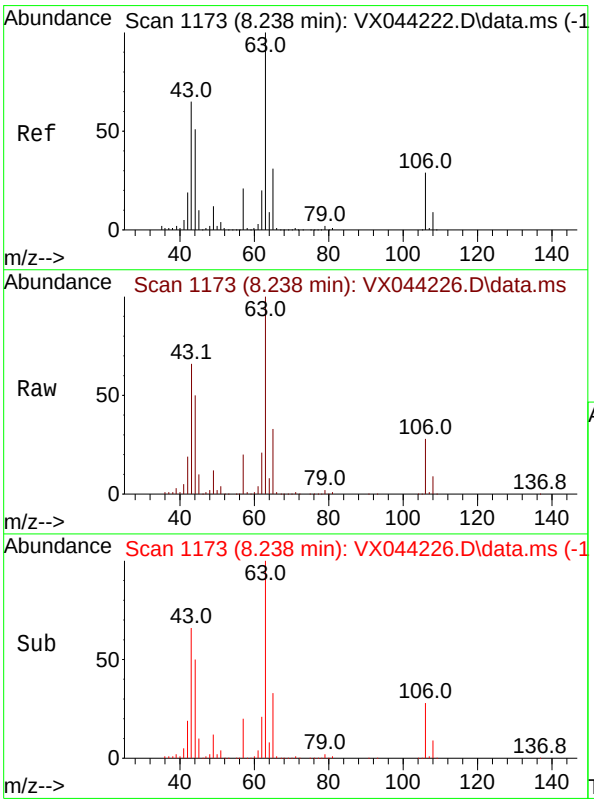
#57
1,3-Dichloropropane
Concen: 49.165 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 76 Resp: 137705

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.5	39.7

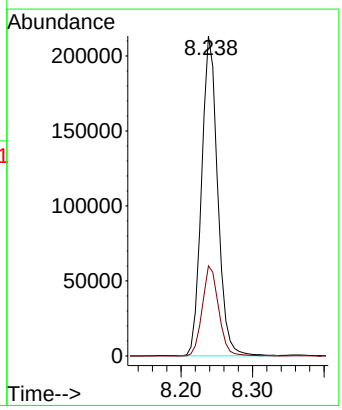


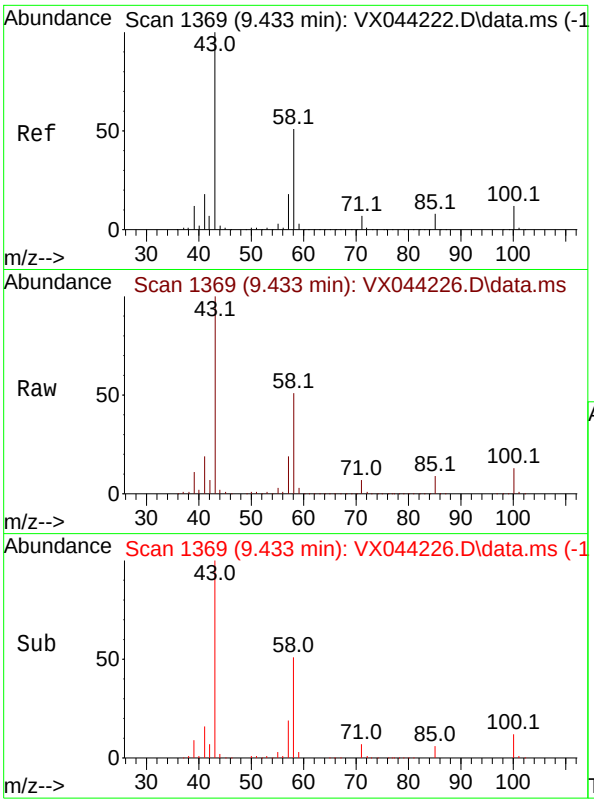


#58
2-Chloroethyl Vinyl ether
Concen: 259.586 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 63 Resp: 332599

Ion	Ratio	Lower	Upper
63	100		
106	28.6	22.8	34.2



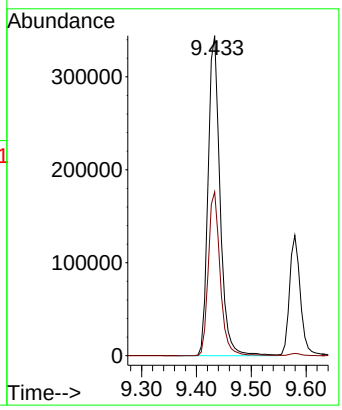


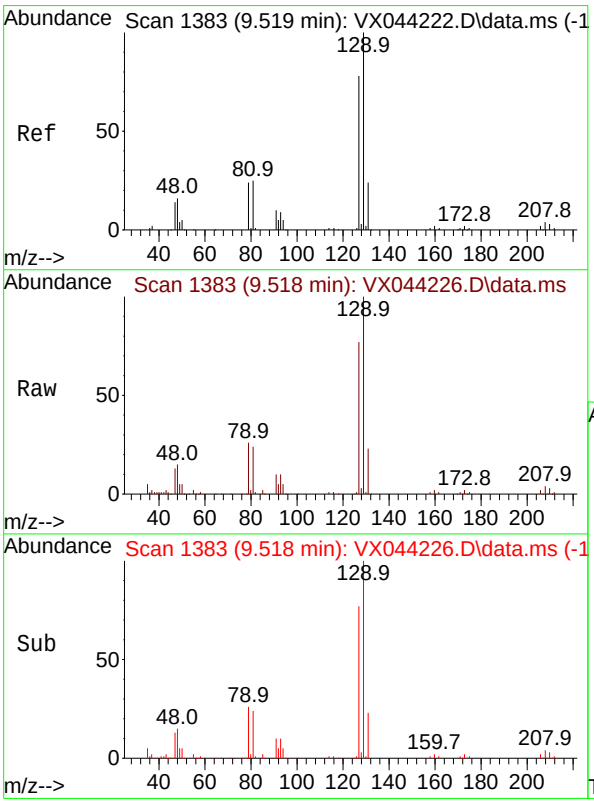
#59
2-Hexanone
Concen: 271.943 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 43 Resp: 519476

Ion	Ratio	Lower	Upper
43	100		
58	50.7	25.7	77.0

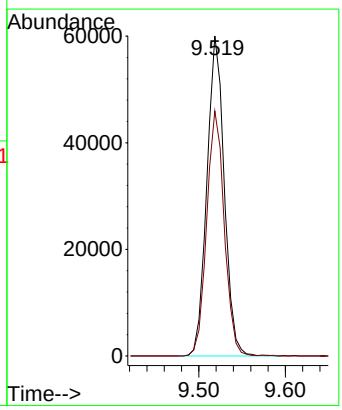


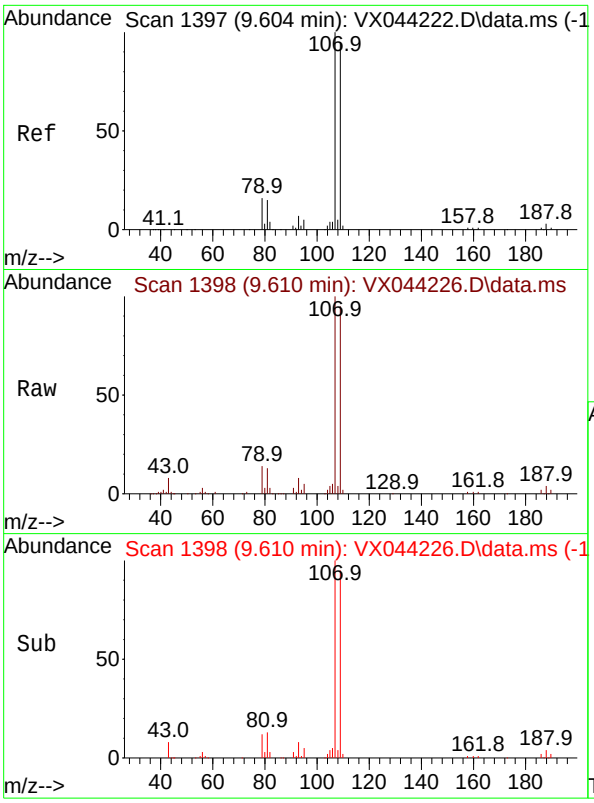


#60
Dibromochloromethane
Concen: 49.073 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:129 Resp: 83515

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.3



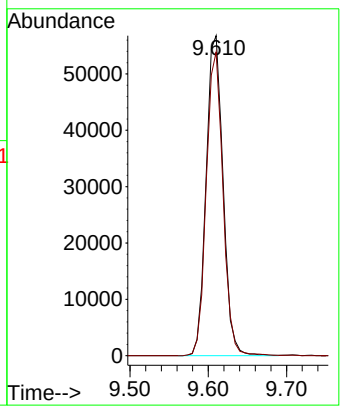


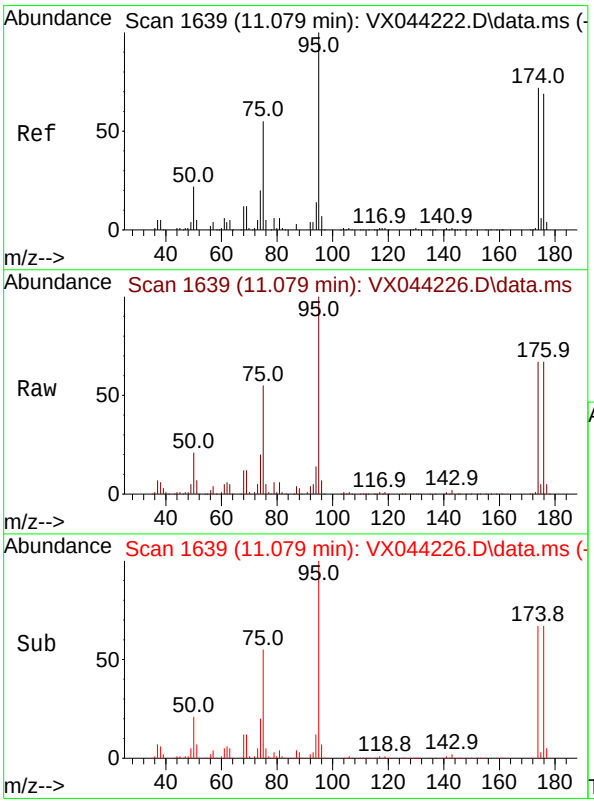
#61
1,2-Dibromoethane
Concen: 51.909 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:107 Resp: 85024

Ion	Ratio	Lower	Upper
107	100		
109	93.7	77.0	115.4

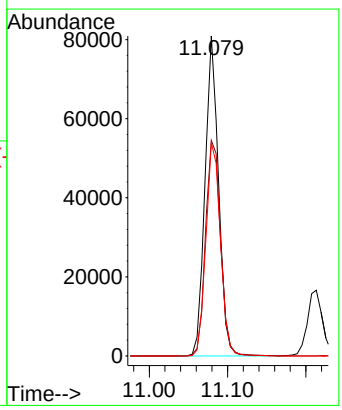


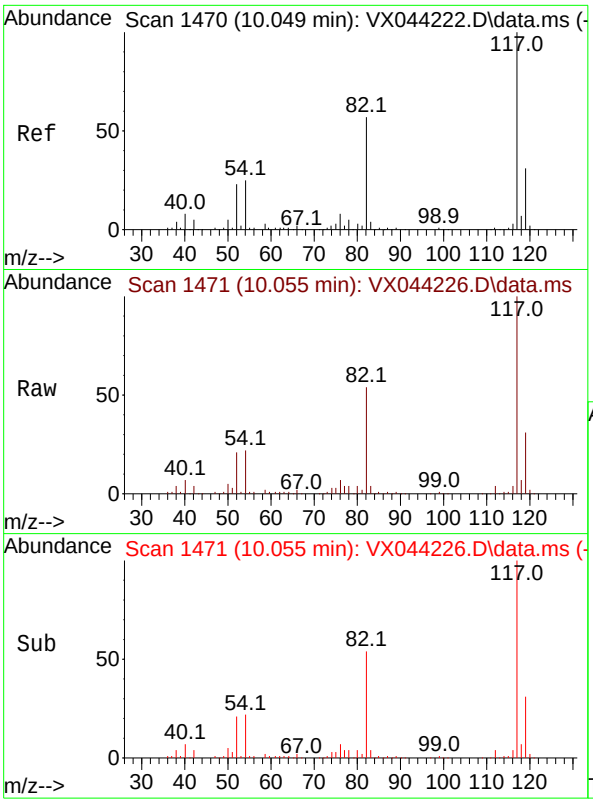


#62
4-Bromofluorobenzene
Concen: 50.098 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 95 Resp: 97061

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	145.8
176	71.4	0.0	137.8



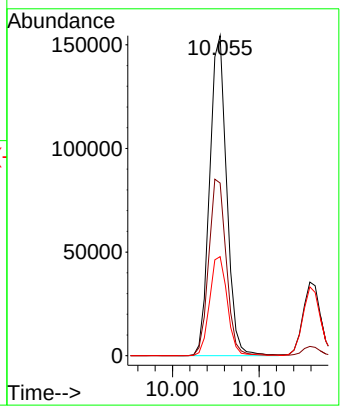


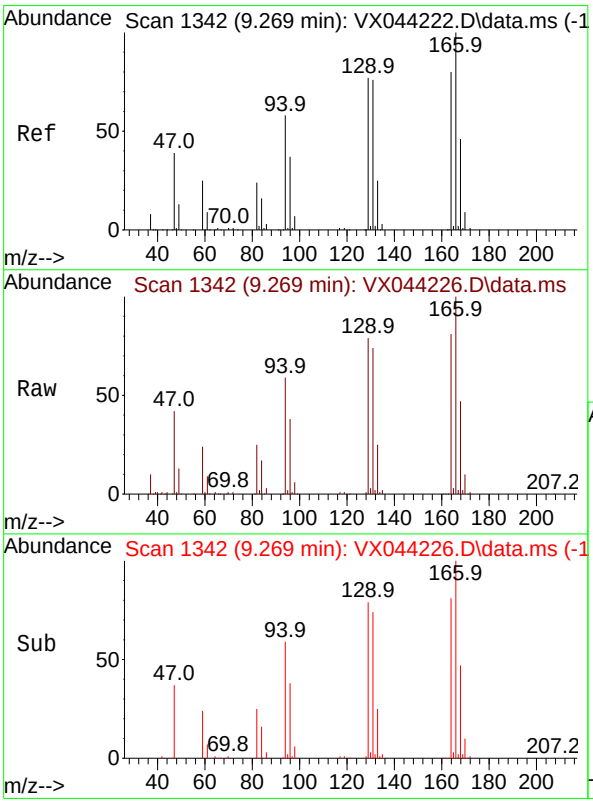
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:117 Resp: 210572

Ion	Ratio	Lower	Upper
117	100		
82	54.0	45.8	68.8
119	31.0	25.0	37.4

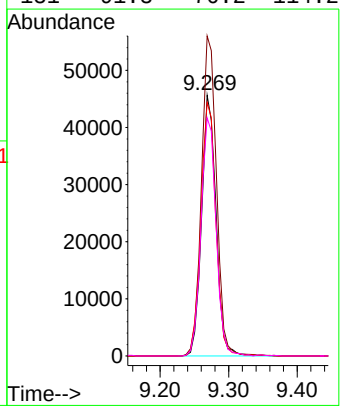


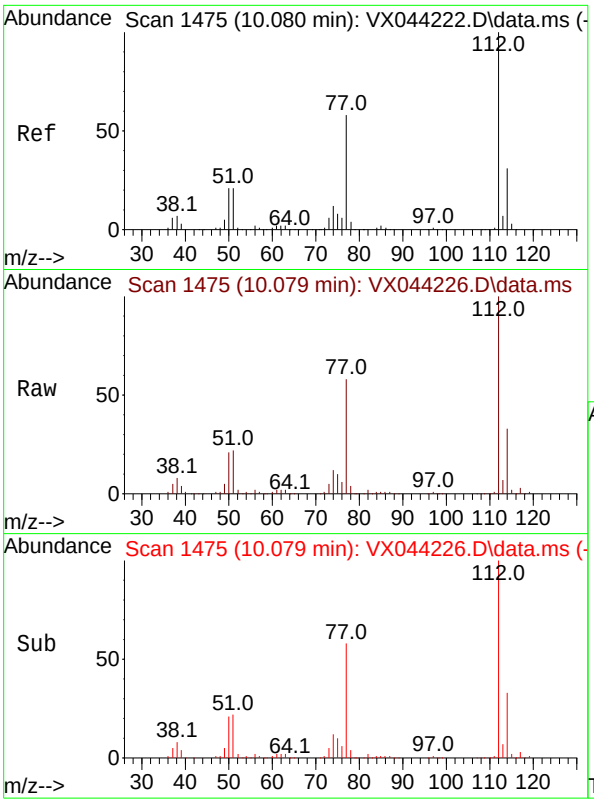


#64
Tetrachloroethene
Concen: 47.702 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:164 Resp: 66669

Ion	Ratio	Lower	Upper
164	100		
166	122.8	100.4	150.6
129	97.2	77.2	115.8
131	91.3	76.2	114.2



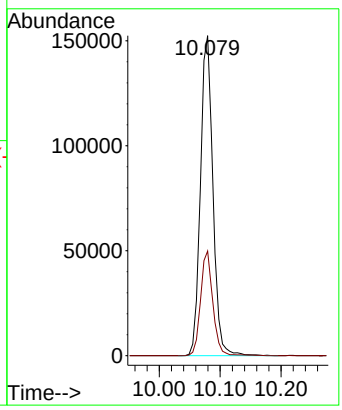


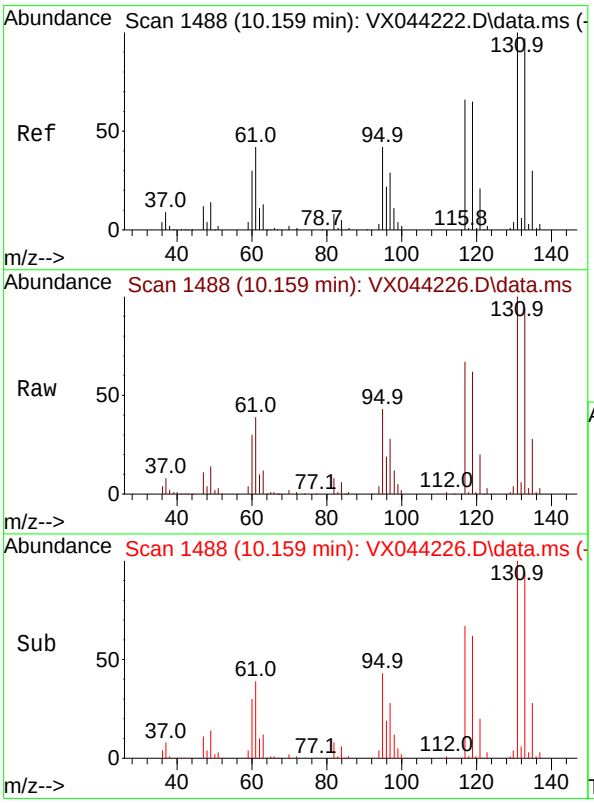
#65
Chlorobenzene
Concen: 48.133 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:112 Resp: 217180

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.0	37.6

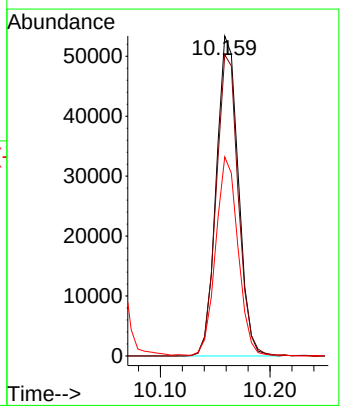


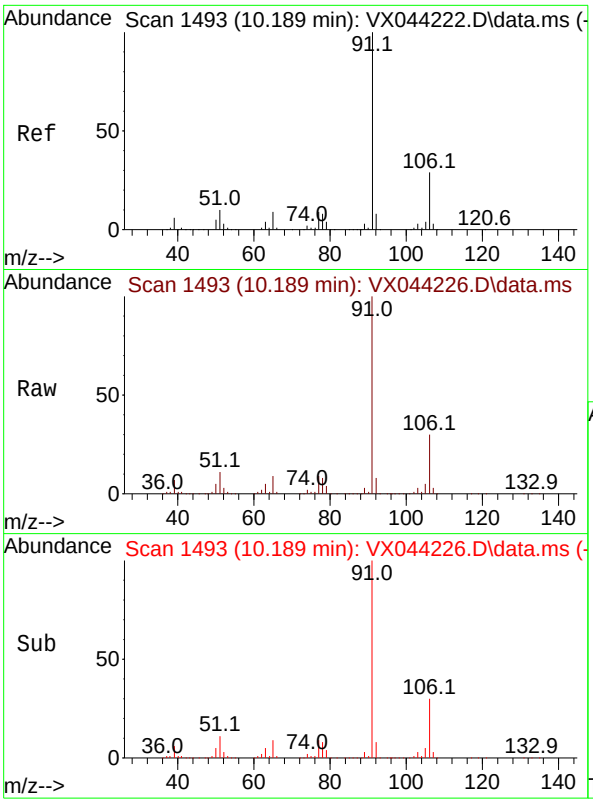


#66
1,1,1,2-Tetrachloroethane
Concen: 51.396 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:131 Resp: 74531

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.8
119	63.3	31.6	95.0



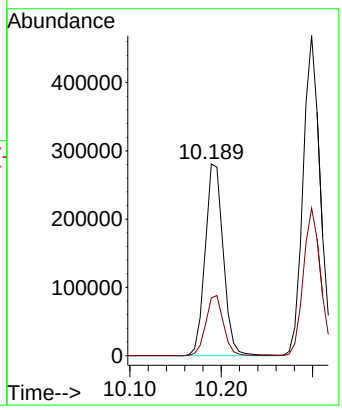


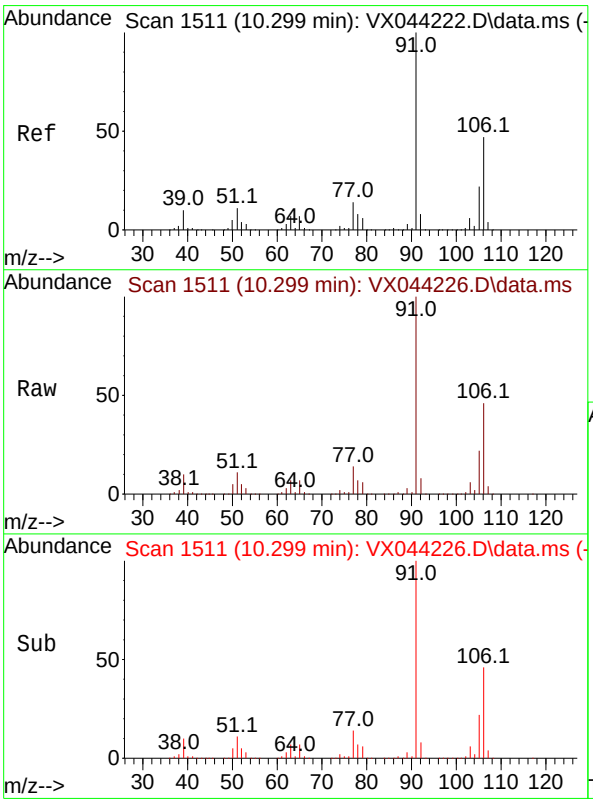
#67
Ethyl Benzene
Concen: 49.461 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 91 Resp: 385605

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.5	35.3

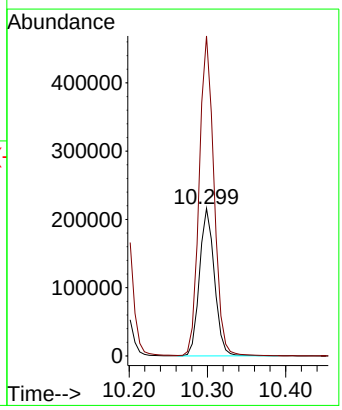


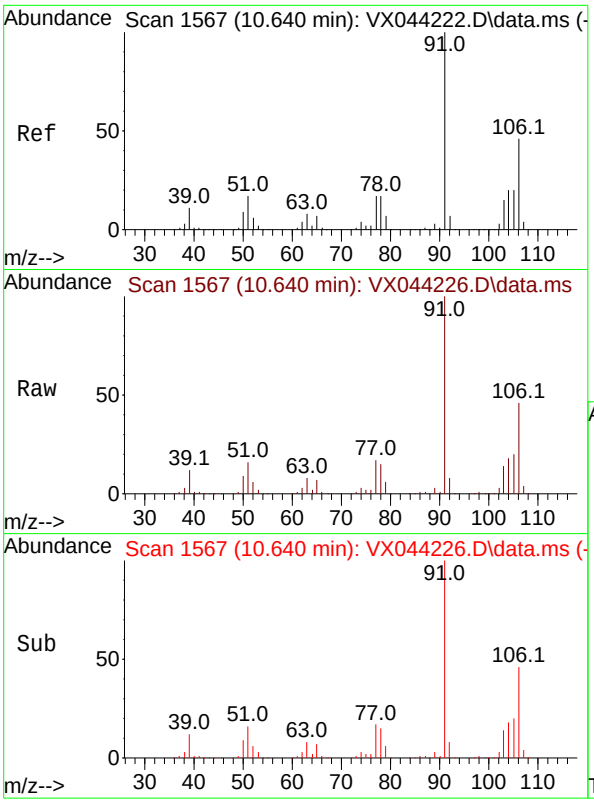


#68
m/p-Xylenes
Concen: 99.896 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:106 Resp: 285774

Ion	Ratio	Lower	Upper
106	100		
91	214.6	170.2	255.2



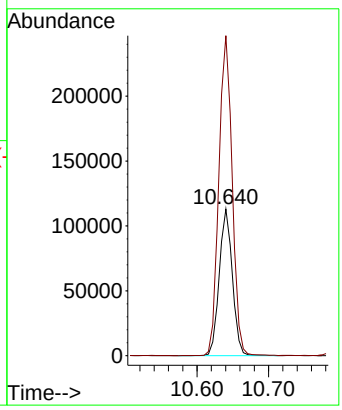


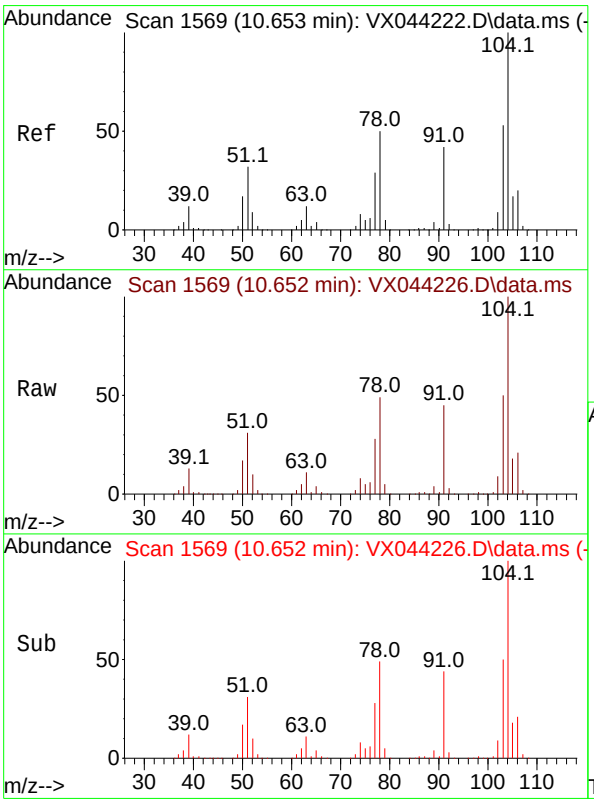
#69
o-Xylene
Concen: 49.750 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:106 Resp: 144001

Ion	Ratio	Lower	Upper
106	100		
91	221.9	112.3	337.0

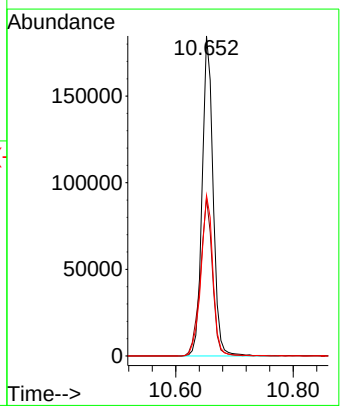


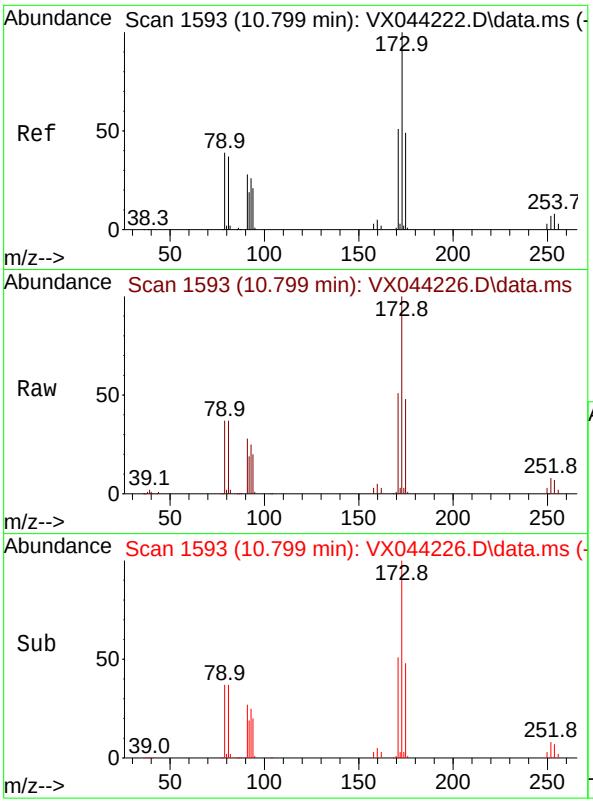


#70
Styrene
Concen: 51.617 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:104 Resp: 239508

Ion	Ratio	Lower	Upper
104	100		
78	54.5	44.6	67.0
103	54.9	45.4	68.0



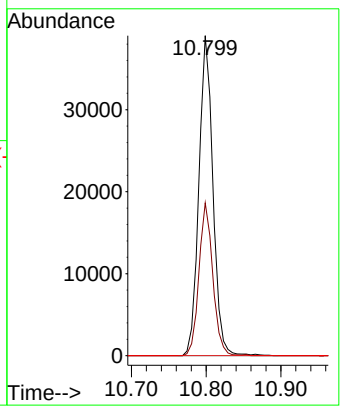


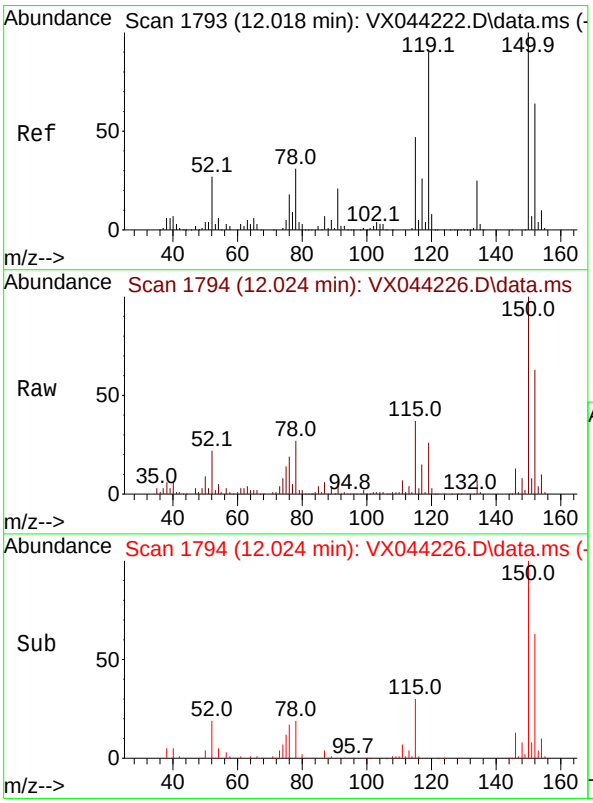
#71
Bromoform
Concen: 50.269 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:173 Resp: 50972

Ion	Ratio	Lower	Upper
173	100		
175	47.1	23.8	71.4
254	0.0	0.0	0.0

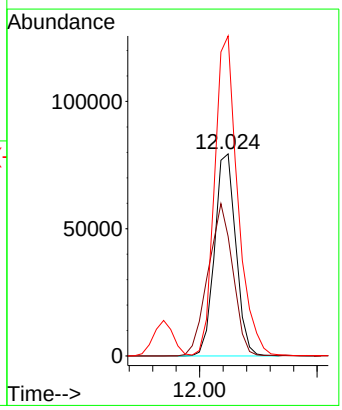


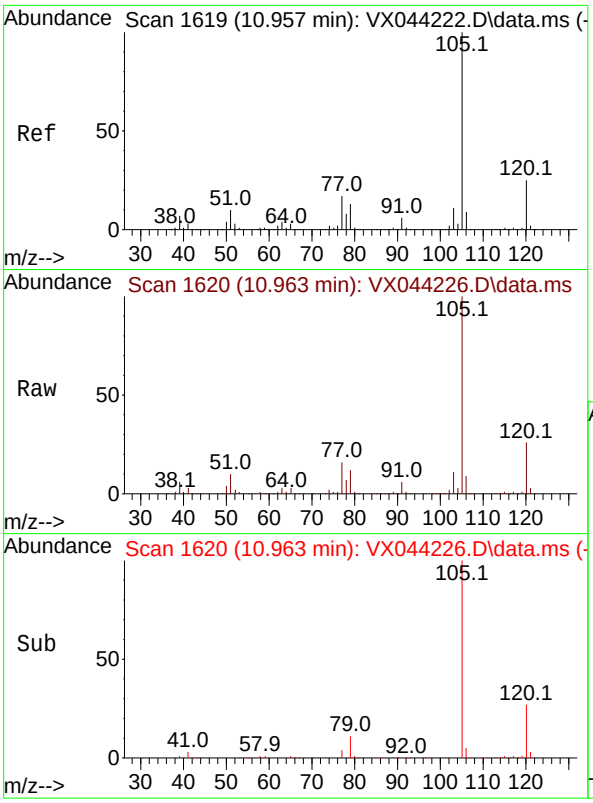


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:152 Resp: 99879

Ion	Ratio	Lower	Upper
152	100		
115	87.8	44.5	133.3
150	172.2	0.0	353.8



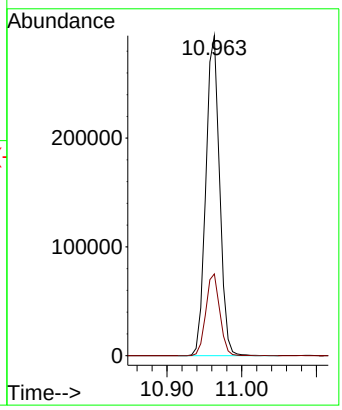


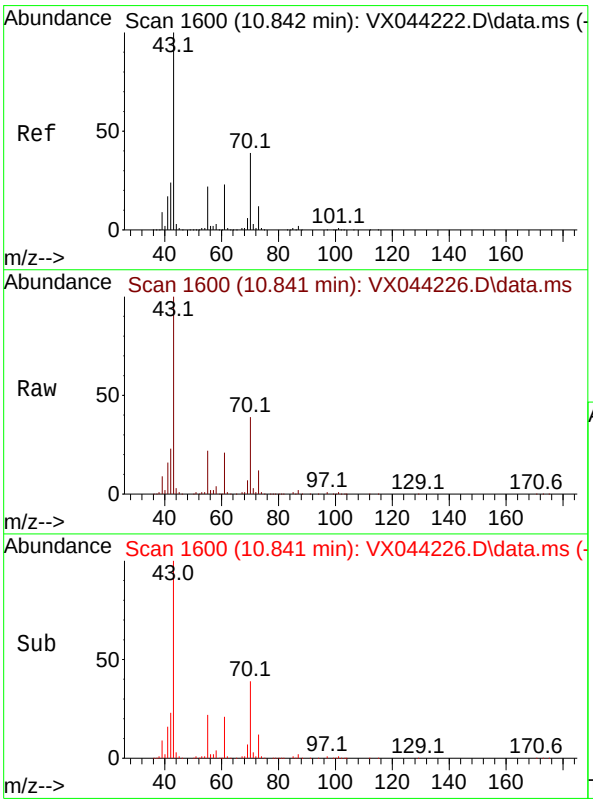
#73
Isopropylbenzene
Concen: 49.014 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:105 Resp: 374769

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.3

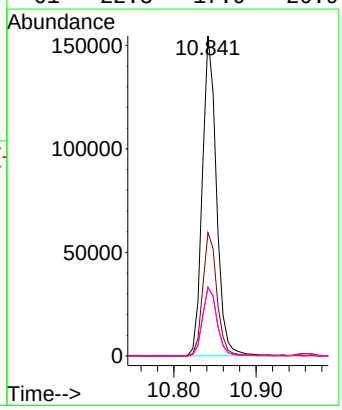


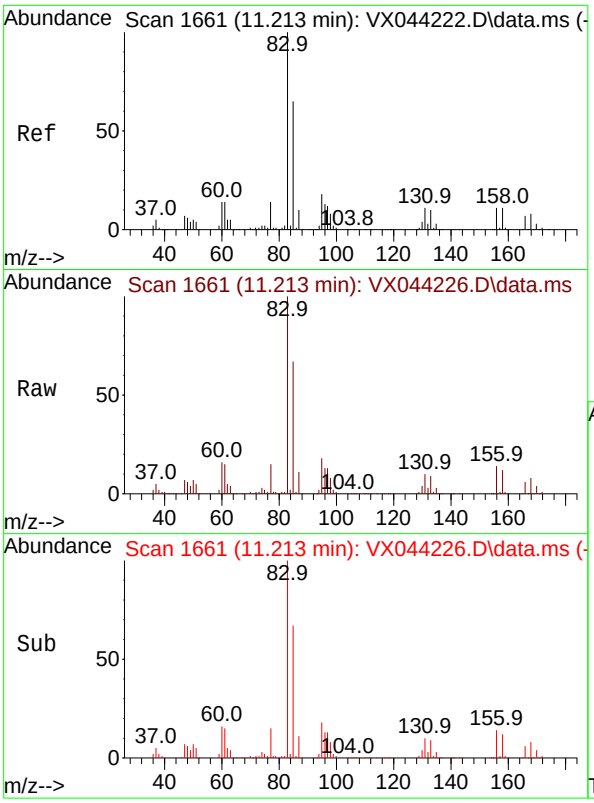


#74
N-amyl acetate
Concen: 52.003 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 43 Resp: 183763

Ion	Ratio	Lower	Upper
43	100		
70	39.0	31.9	47.9
55	22.4	17.9	26.9
61	22.3	17.9	26.9



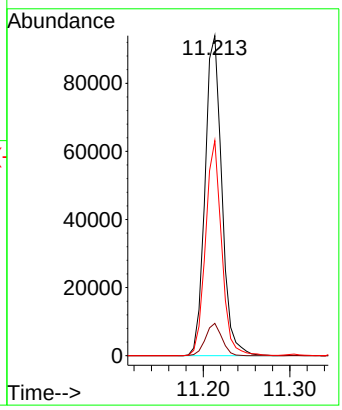


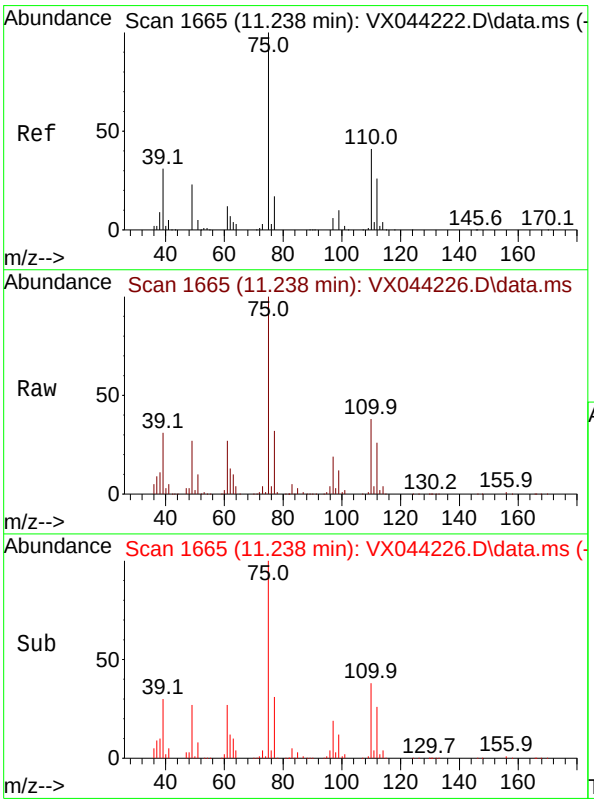
#75
1,1,2,2-Tetrachloroethane
Concen: 47.676 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 83 Resp: 126615

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.4	32.5	97.4

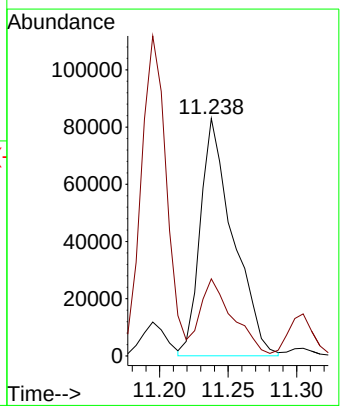


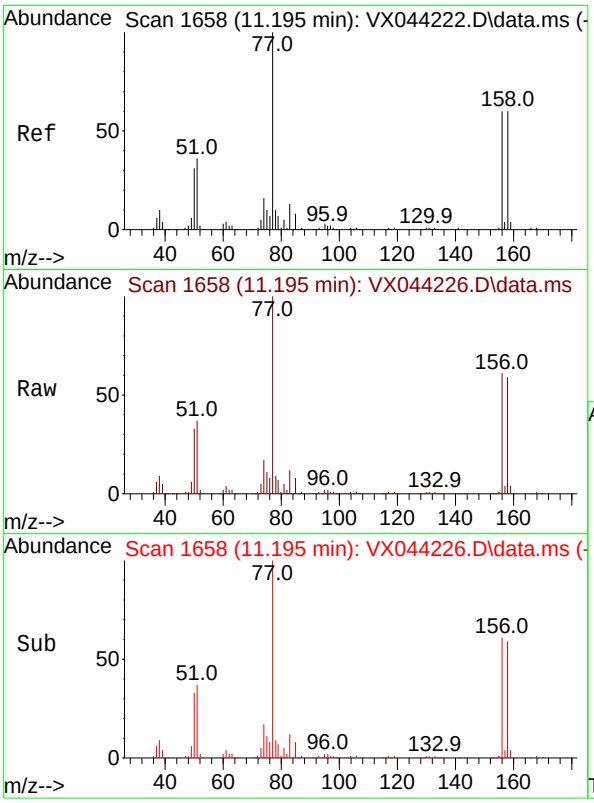


#76
1,2,3-Trichloropropane
Concen: 62.060 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 138398

Ion	Ratio	Lower	Upper
75	100		
77	32.5	20.9	62.7



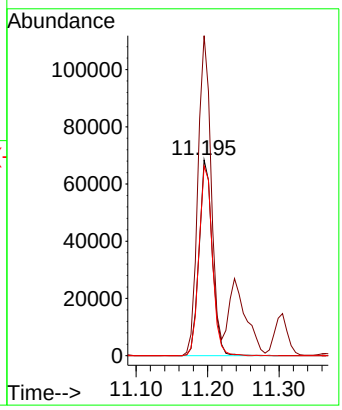


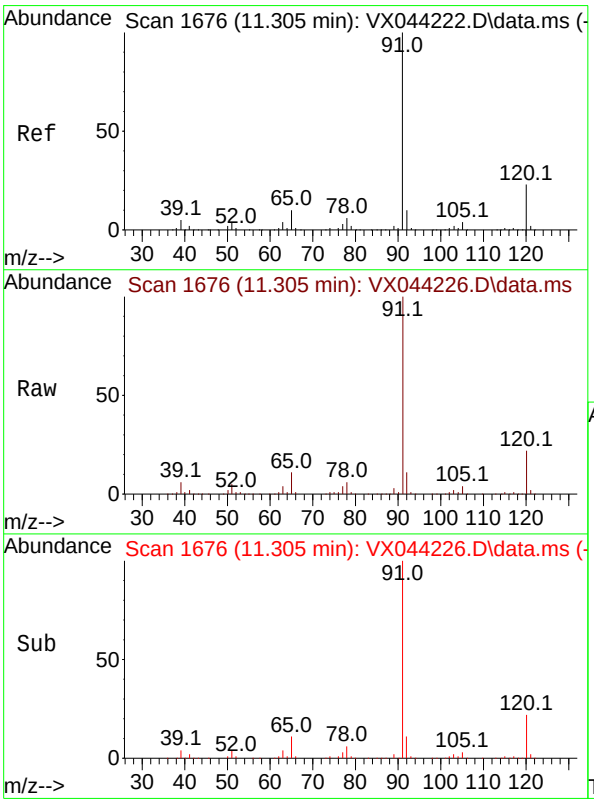
#77
Bromobenzene
Concen: 47.335 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:156 Resp: 87767

Ion	Ratio	Lower	Upper
156	100		
77	163.4	82.6	247.8
158	98.0	48.8	146.4

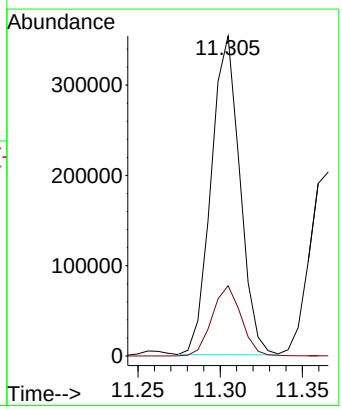


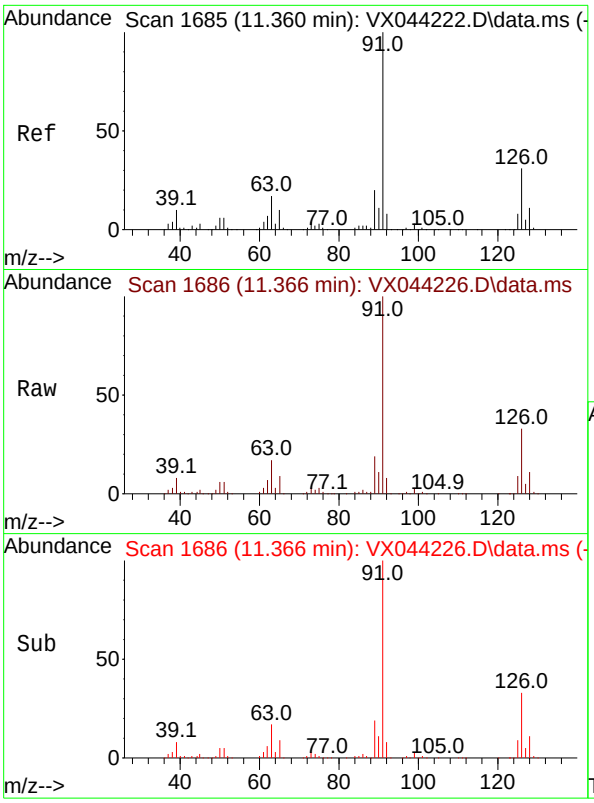


#78
n-propylbenzene
Concen: 50.816 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 429443

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.0	33.0



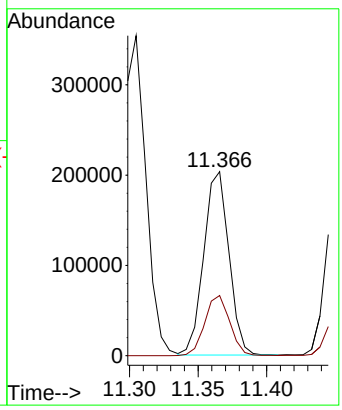


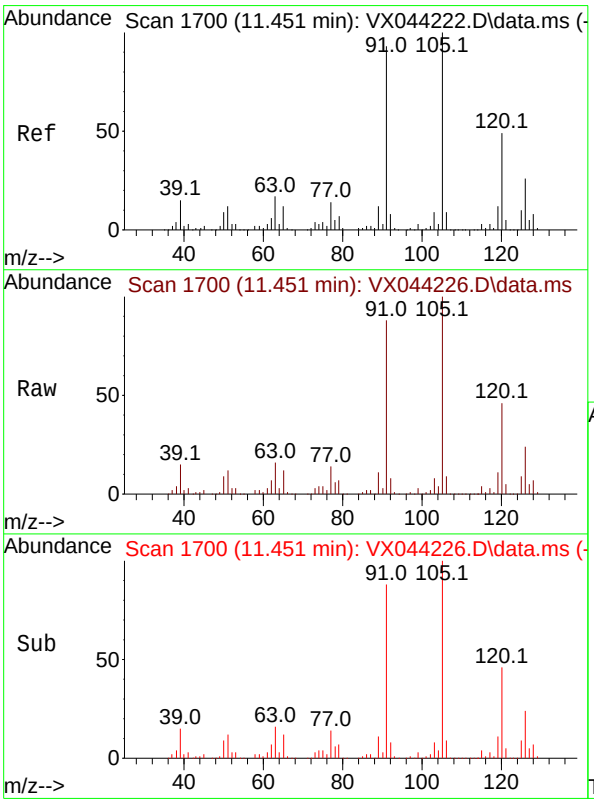
#79
2-Chlorotoluene
Concen: 47.546 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 91 Resp: 259860

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.1

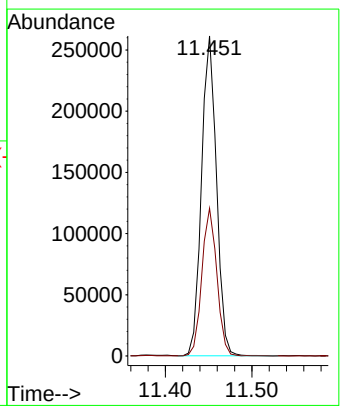


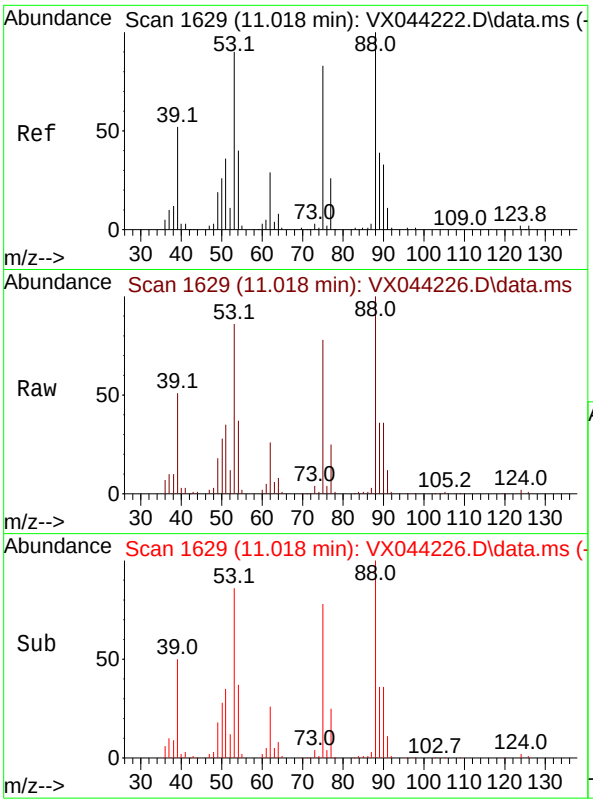


#80
1,3,5-Trimethylbenzene
Concen: 49.431 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 313435

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.8	71.4



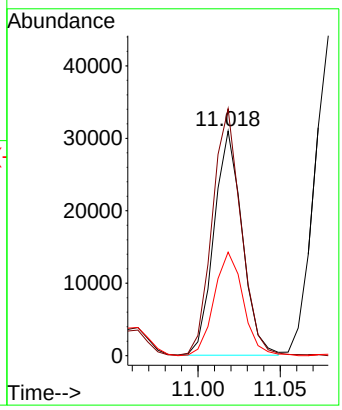


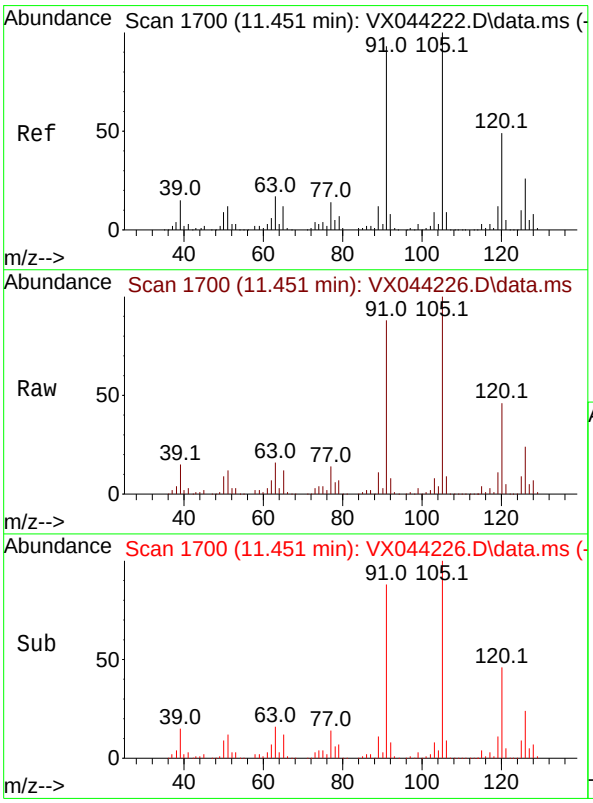
#81
trans-1,4-Dichloro-2-butene
Concen: 47.861 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 75 Resp: 37038

Ion	Ratio	Lower	Upper
75	100		
53	112.6	93.6	140.4
89	47.5	37.3	55.9

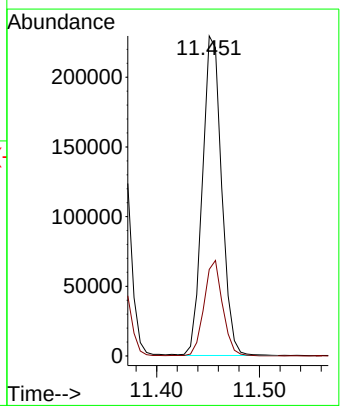


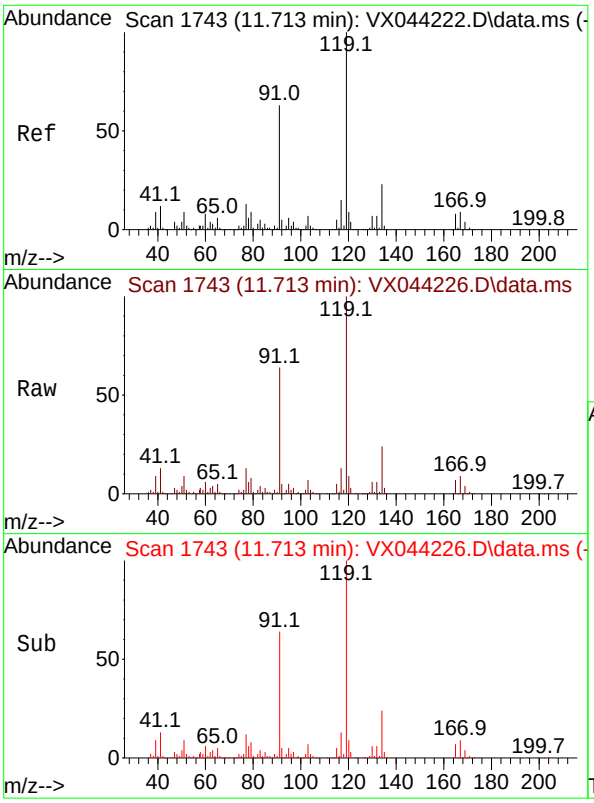


#82
4-Chlorotoluene
Concen: 49.178 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 91 Resp: 297641

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.5



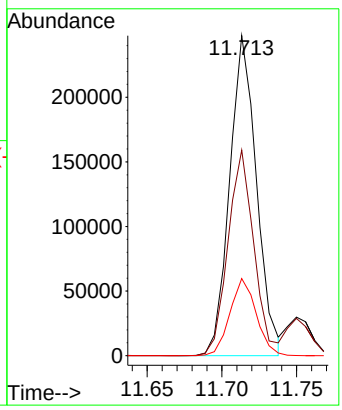


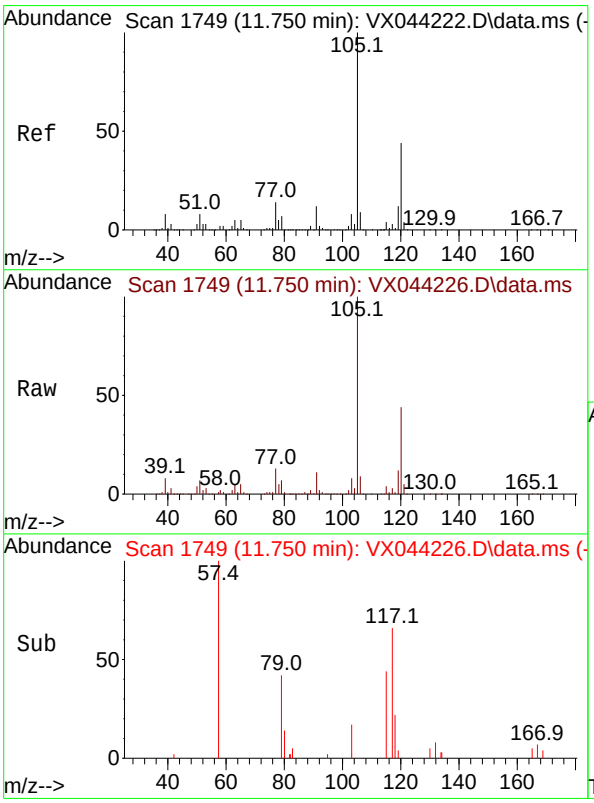
#83
tert-Butylbenzene
Concen: 49.384 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:119 Resp: 309463

Ion	Ratio	Lower	Upper
119	100		
91	62.1	30.9	92.5
134	23.6	11.5	34.4

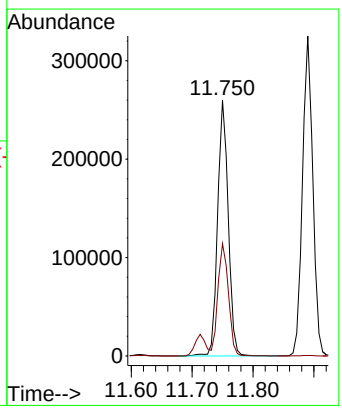


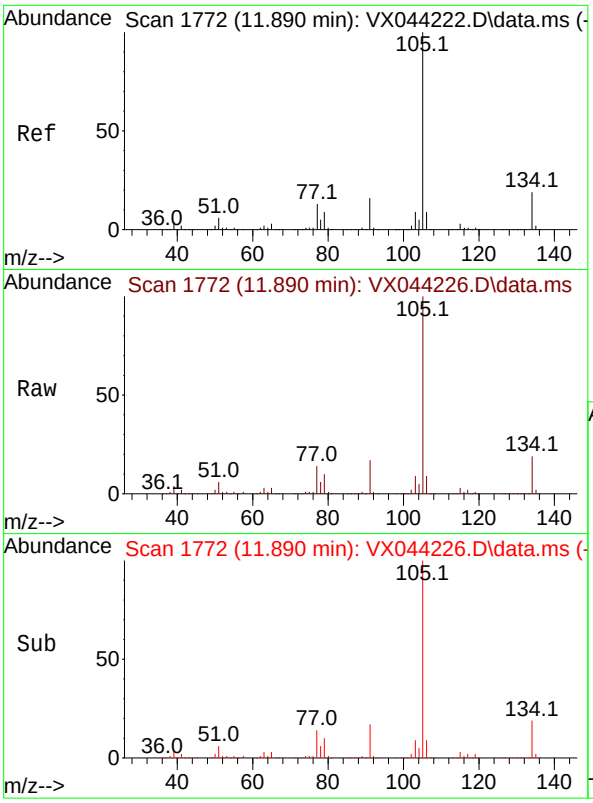


#84
1,2,4-Trimethylbenzene
Concen: 50.333 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:105 Resp: 313433

Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1



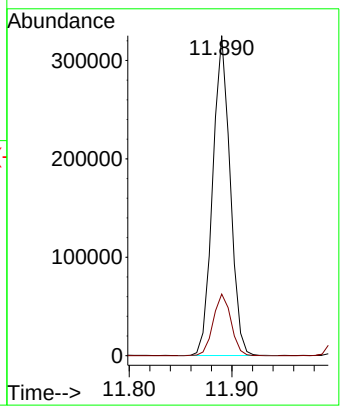


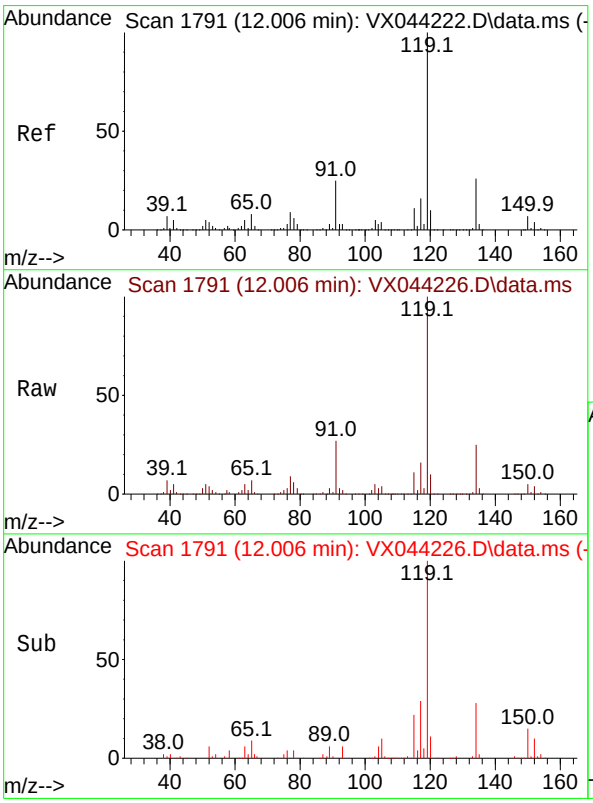
#85
sec-Butylbenzene
Concen: 50.097 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:105 Resp: 381109

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.4

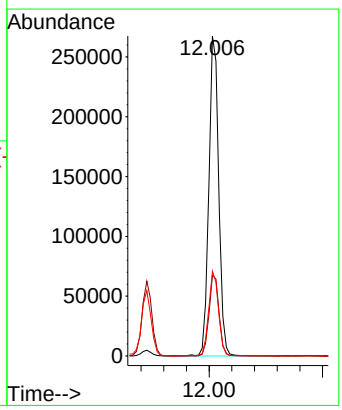


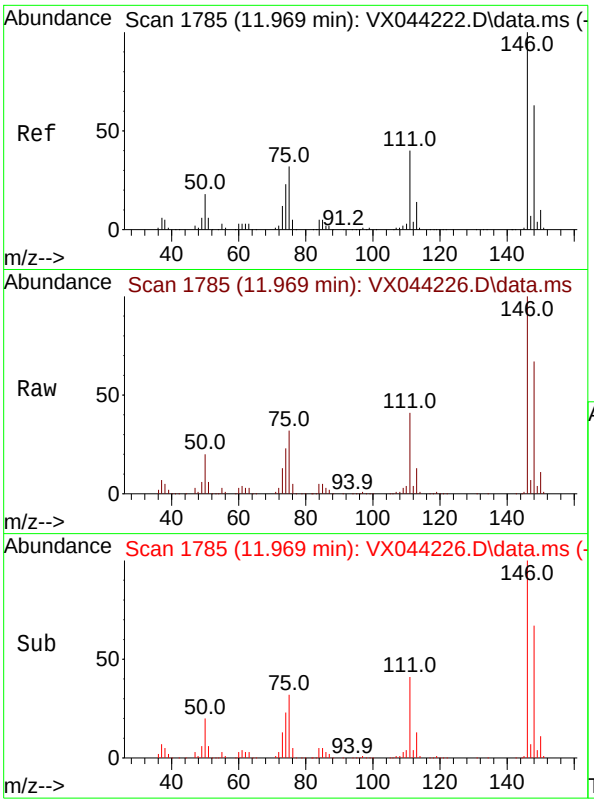


#86
p-Isopropyltoluene
Concen: 50.678 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:119 Resp: 320882

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.8	38.4
91	26.3	13.0	39.0



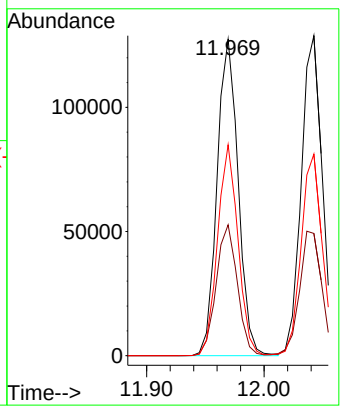


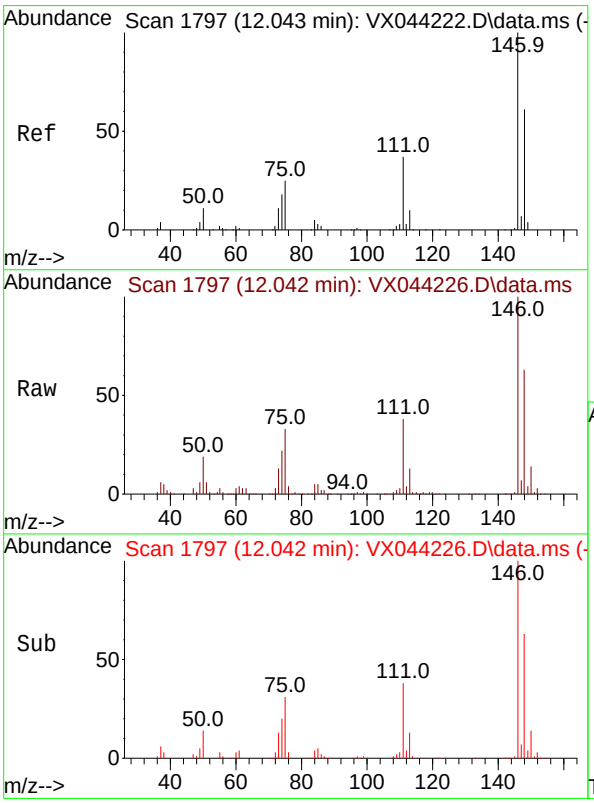
#87
1,3-Dichlorobenzene
Concen: 49.122 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:146 Resp: 159094

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.4	64.2
148	64.7	31.7	95.1

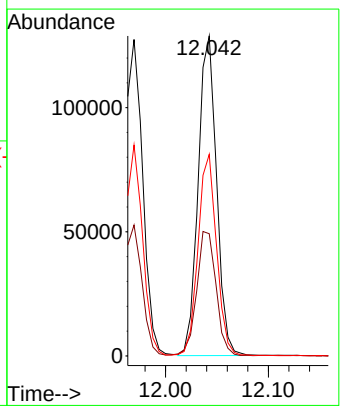


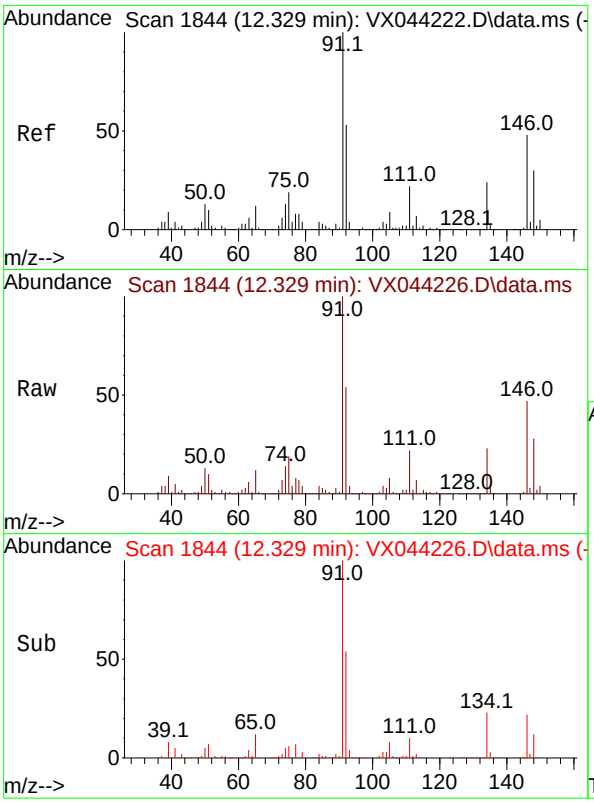


#88
1,4-Dichlorobenzene
Concen: 48.280 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:146 Resp: 160742

Ion	Ratio	Lower	Upper
146	100		
111	41.1	21.0	63.0
148	63.6	32.3	96.8



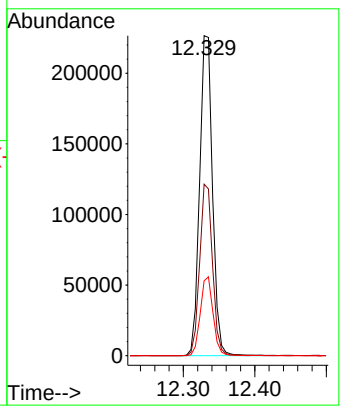


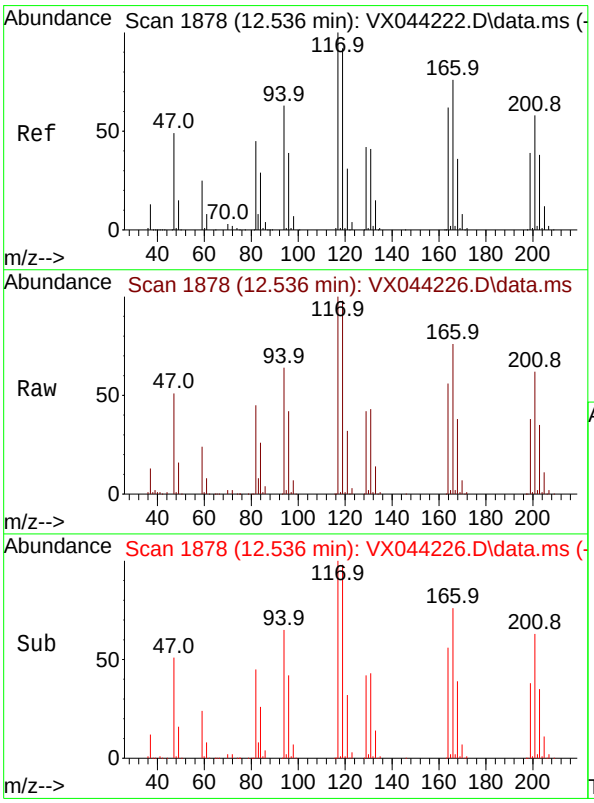
#89
n-Butylbenzene
Concen: 53.207 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion: 91 Resp: 283284

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	79.7
134	24.3	12.6	37.8

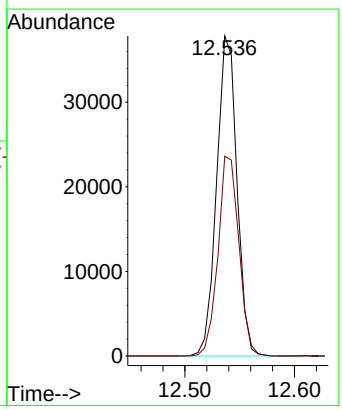


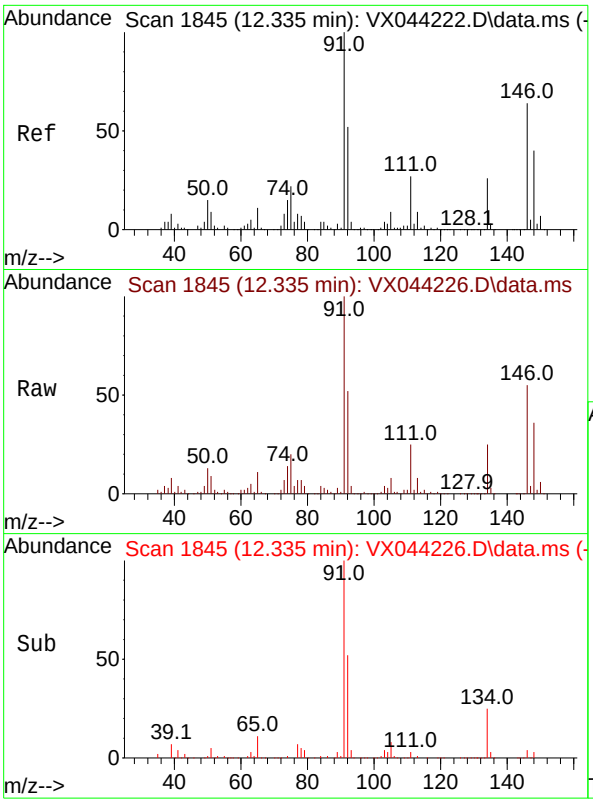


#90
Hexachloroethane
Concen: 52.727 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:117 Resp: 48734

Ion	Ratio	Lower	Upper
117	100		
201	64.3	31.4	94.2



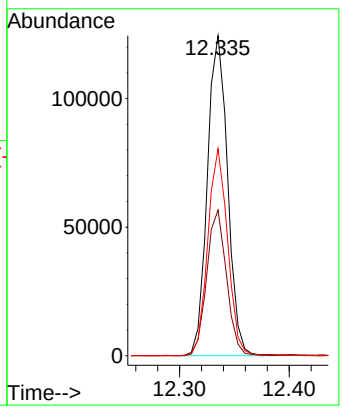


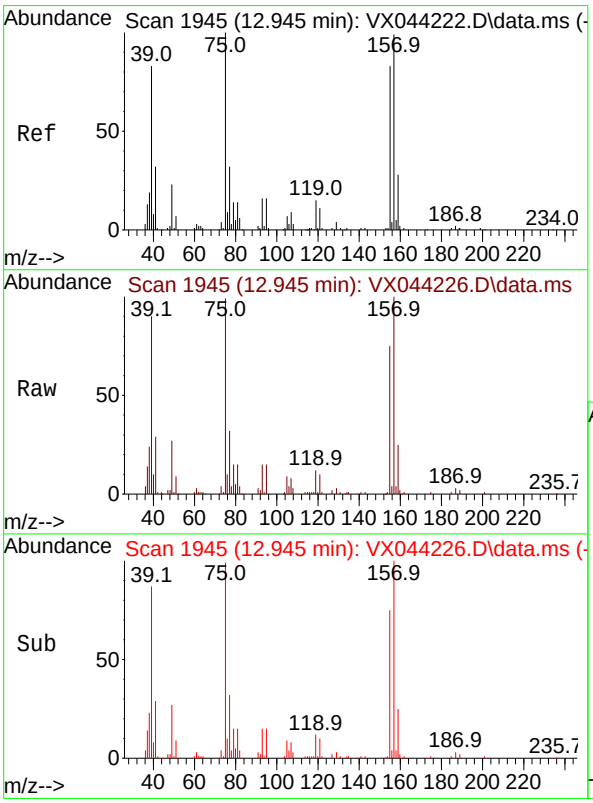
#91
1,2-Dichlorobenzene
Concen: 47.589 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:146 Resp: 160039

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.4	64.3
148	63.4	31.6	95.0

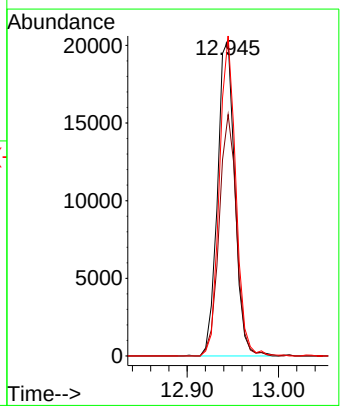


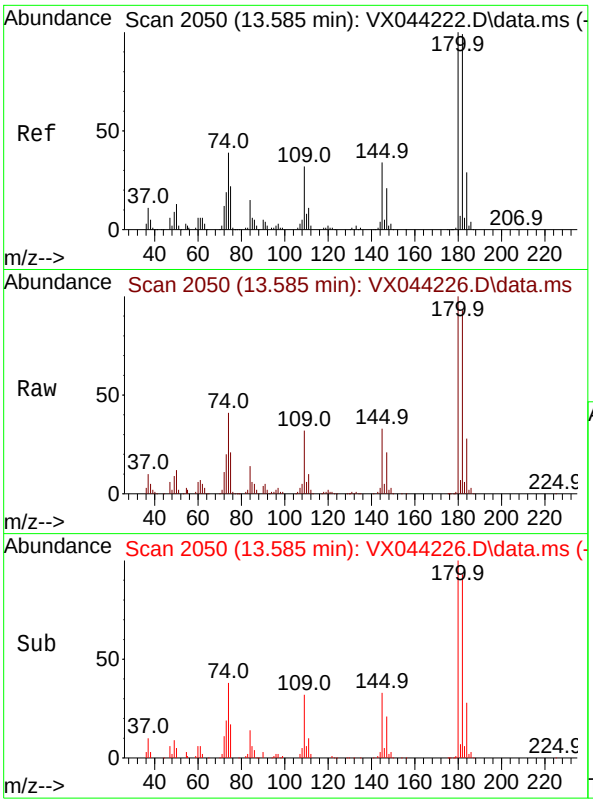


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.864 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion: 75 Resp: 26738

Ion	Ratio	Lower	Upper
75	100		
155	76.5	38.1	114.3
157	96.3	47.2	141.6



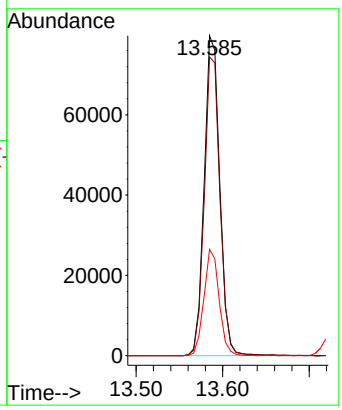


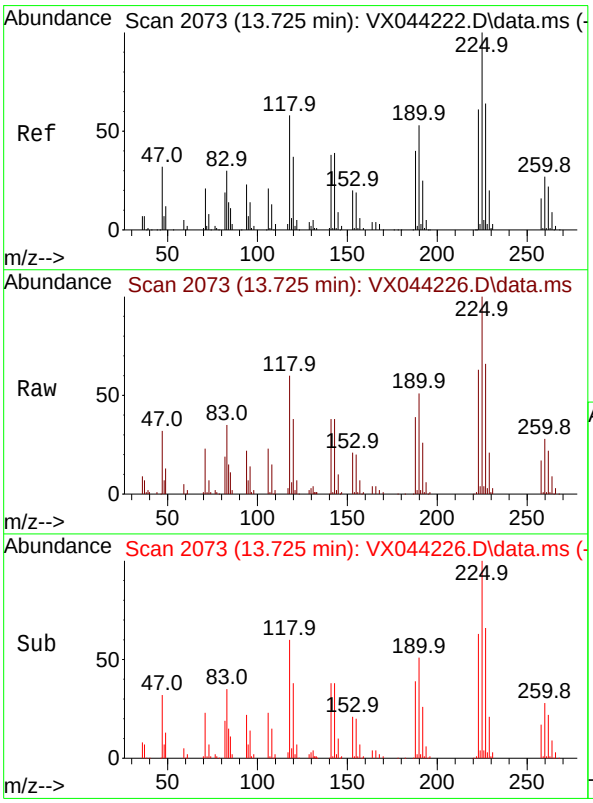
#93
1,2,4-Trichlorobenzene
Concen: 53.940 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:180 Resp: 99449

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.2
145	32.6	16.6	49.7

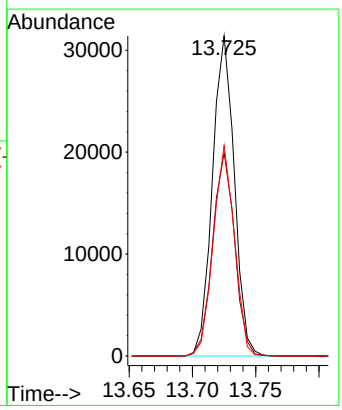


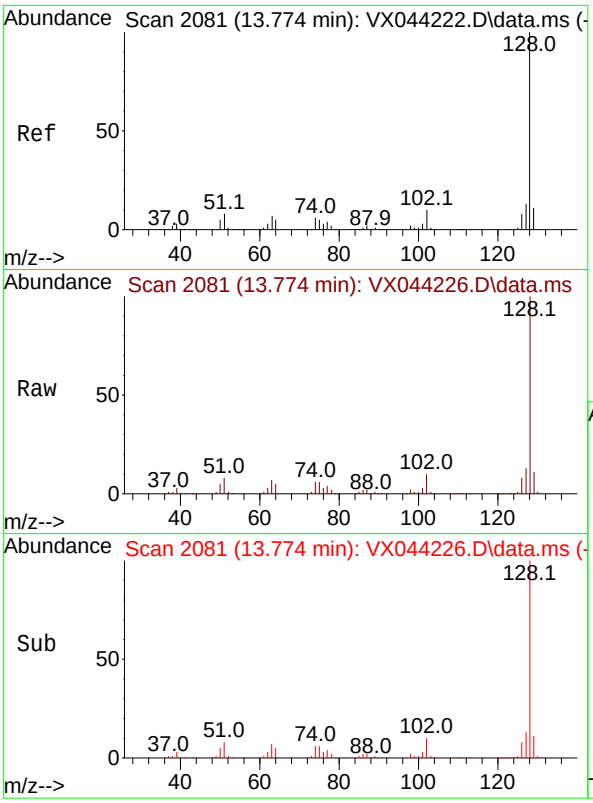


#94
Hexachlorobutadiene
Concen: 50.770 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:225 Resp: 37651

Ion	Ratio	Lower	Upper
225	100		
223	63.9	30.8	92.4
227	63.7	32.1	96.3



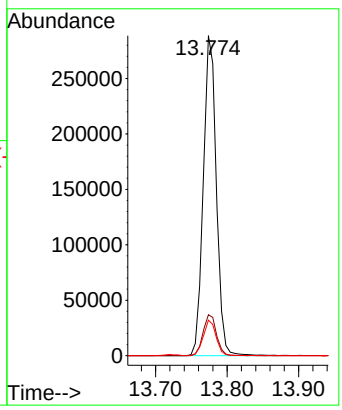


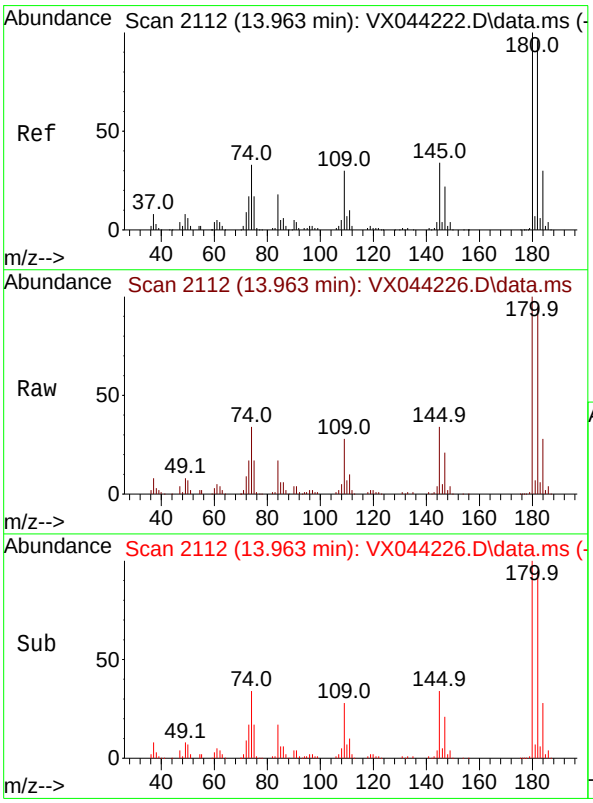
#95
Naphthalene
Concen: 50.827 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Instrument :
MSVOA_X
ClientSampleId :
ICVVX121124

Tgt Ion:128 Resp: 365781

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.9	9.0	13.4

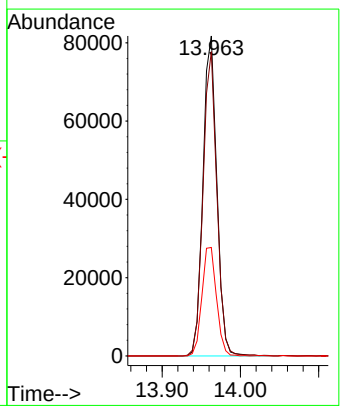




#96
1,2,3-Trichlorobenzene
Concen: 51.244 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044226.D
Acq: 11 Dec 2024 13:51

Tgt Ion:180 Resp: 100209

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.0	144.0
145	35.7	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	145222	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	244425	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	100489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	107787	42.332	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 84.660%			
35) Dibromofluoromethane	5.379	113	83132	49.107	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.220%			
50) Toluene-d8	8.647	98	284482	49.811	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.620%			
62) 4-Bromofluorobenzene	11.079	95	101069	50.645	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	116148	51.725	ug/l	96
3) Chloromethane	1.295	50	104547	48.687	ug/l	99
4) Vinyl Chloride	1.374	62	107961	48.260	ug/l	99
5) Bromomethane	1.593	94	69033	43.497	ug/l	98
6) Chloroethane	1.666	64	71760	51.515	ug/l	100
7) Trichlorofluoromethane	1.868	101	185191	42.285	ug/l	98
8) Diethyl Ether	2.130	74	62582	41.863	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.313	101	89093	50.273	ug/l	97
10) Methyl Iodide	2.441	142	114340	48.954	ug/l	97
11) Tert butyl alcohol	2.989	59	82750	230.596	ug/l	97
12) 1,1-Dichloroethene	2.307	96	82169	50.480	ug/l	97
13) Acrolein	2.233	56	116572	224.413	ug/l	100
14) Allyl chloride	2.654	41	136530	50.357	ug/l	99
15) Acrylonitrile	3.063	53	229722	231.100	ug/l	99
16) Acetone	2.386	43	216281	208.352	ug/l	96
17) Carbon Disulfide	2.502	76	175625	56.760	ug/l	98
18) Methyl Acetate	2.703	43	120549	45.040	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	295317	46.491	ug/l	99
20) Methylene Chloride	2.782	84	93400	47.904	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	86210	49.833	ug/l	97
22) Diisopropyl ether	3.758	45	285517	46.766	ug/l	95
23) Vinyl Acetate	3.715	43	1267305	255.320	ug/l	99
24) 1,1-Dichloroethane	3.599	63	163171	47.946	ug/l	99
25) 2-Butanone	4.556	43	326836	221.473	ug/l	99
26) 2,2-Dichloropropane	4.465	77	145905	52.773	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	105020	47.800	ug/l	97
28) Bromochloromethane	4.891	49	77185	46.252	ug/l	99
29) Tetrahydrofuran	5.001	42	207544	219.106	ug/l	99
30) Chloroform	5.087	83	173750	45.441	ug/l	98
31) Cyclohexane	5.458	56	138763	50.494	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	155612	49.028	ug/l	99
36) 1,1-Dichloropropene	5.684	75	114333	52.248	ug/l	99
37) Ethyl Acetate	4.715	43	133879	49.494	ug/l	98
38) Carbon Tetrachloride	5.666	117	126452	53.675	ug/l	96
39) Methylcyclohexane	7.373	83	152449	58.275	ug/l	98
40) Benzene	6.032	78	349139	52.550	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	70496	49.080	ug/l		99
42) 1,2-Dichloroethane	6.080	62	135560	49.531	ug/l		97
43) Isopropyl Acetate	6.336	43	216506	51.210	ug/l		98
44) Trichloroethene	7.117	130	88888	53.650	ug/l		97
45) 1,2-Dichloropropane	7.428	63	86995	51.252	ug/l		97
46) Dibromomethane	7.574	93	67868	51.538	ug/l		95
47) Bromodichloromethane	7.818	83	124282	54.647	ug/l		100
48) Methyl methacrylate	7.690	41	102868	50.124	ug/l		98
49) 1,4-Dioxane	7.659	88	24662	724.793	ug/l	#	71
51) 4-Methyl-2-Pentanone	8.574	43	667207	245.442	ug/l		99
52) Toluene	8.714	92	220021	52.735	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	127372	52.027	ug/l		96
54) cis-1,3-Dichloropropene	8.360	75	139627	56.385	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	85878	51.812	ug/l		97
56) Ethyl methacrylate	9.116	69	141073	53.914	ug/l		97
57) 1,3-Dichloropropane	9.305	76	146651	50.832	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	326652	247.508	ug/l		99
59) 2-Hexanone	9.427	43	491495	249.789	ug/l		99
60) Dibromochloromethane	9.519	129	89257	50.794	ug/l		98
61) 1,2-Dibromoethane	9.604	107	89289	52.923	ug/l		98
64) Tetrachloroethene	9.269	164	76137	54.001	ug/l		99
65) Chlorobenzene	10.080	112	236050	51.858	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	82035	56.077	ug/l		99
67) Ethyl Benzene	10.189	91	415285	52.803	ug/l		98
68) m/p-Xylenes	10.299	106	312989	108.454	ug/l		96
69) o-Xylene	10.640	106	155361	53.206	ug/l		97
70) Styrene	10.653	104	257040	54.912	ug/l		97
71) Bromoform	10.799	173	55350	53.638	ug/l	#	99
73) Isopropylbenzene	10.957	105	403042	52.392	ug/l		100
74) N-amyl acetate	10.842	43	186211	52.376	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	129995	48.651	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	142179	63.369	ug/l		85
77) Bromobenzene	11.195	156	96454	51.705	ug/l		98
78) n-propylbenzene	11.305	91	457577	53.816	ug/l		98
79) 2-Chlorotoluene	11.360	91	273862	49.803	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	335043	52.518	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	37990	48.684	ug/l		96
82) 4-Chlorotoluene	11.451	91	317807	52.192	ug/l		98
83) tert-Butylbenzene	11.713	119	333427	52.885	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	337162	53.815	ug/l		99
85) sec-Butylbenzene	11.890	105	413244	53.991	ug/l		99
86) p-Isopropyltoluene	12.006	119	345517	54.238	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	176589	54.193	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	174295	52.033	ug/l		98
89) n-Butylbenzene	12.329	91	309732	57.821	ug/l		99
90) Hexachloroethane	12.536	117	53223	57.234	ug/l		93
91) 1,2-Dichlorobenzene	12.335	146	175242	51.794	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24513	47.259	ug/l		89
93) 1,2,4-Trichlorobenzene	13.585	180	107991	58.218	ug/l		98
94) Hexachlorobutadiene	13.725	225	44782	60.019	ug/l		98
95) Naphthalene	13.774	128	382648	52.848	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	111207	56.523	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

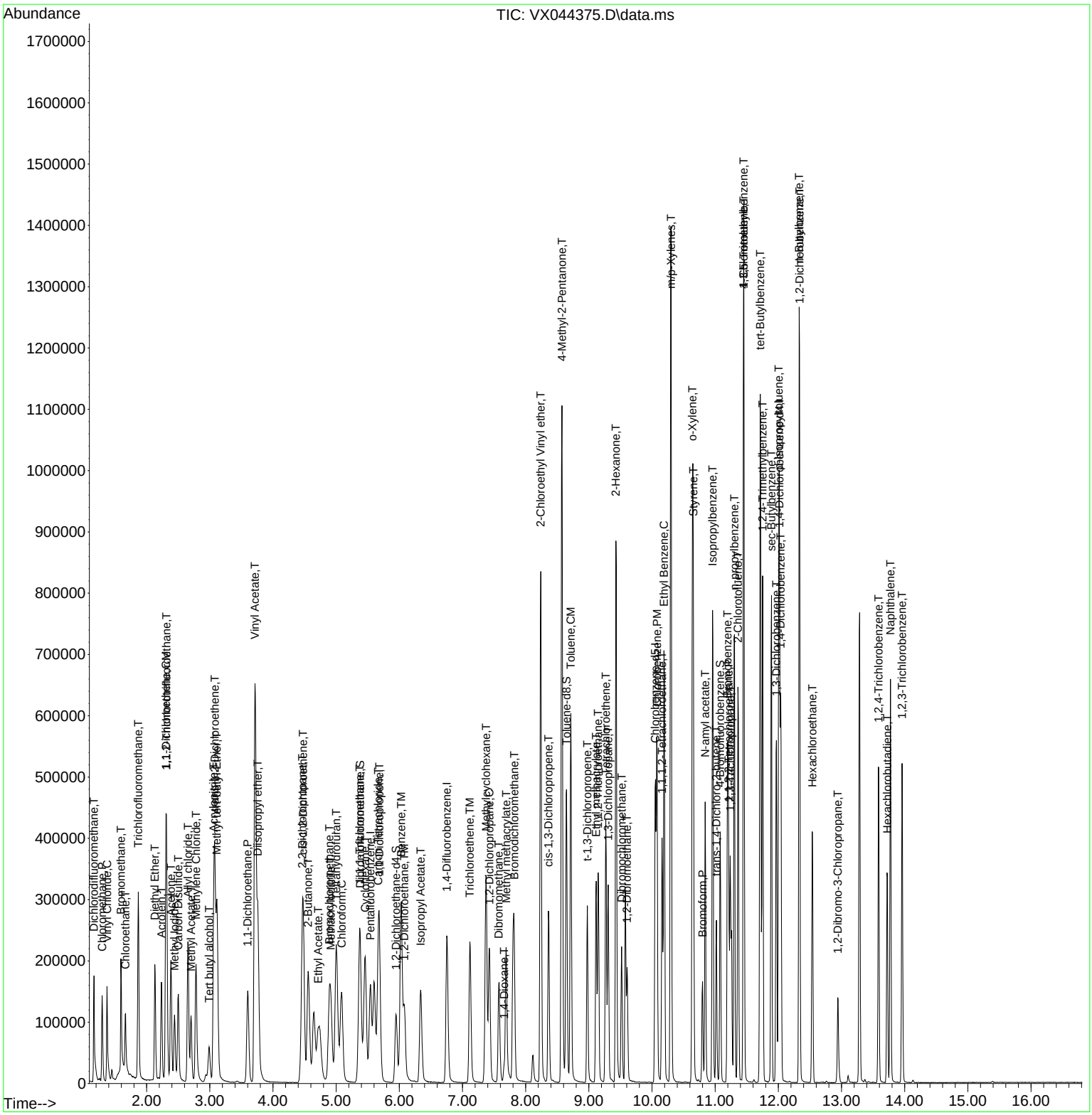
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

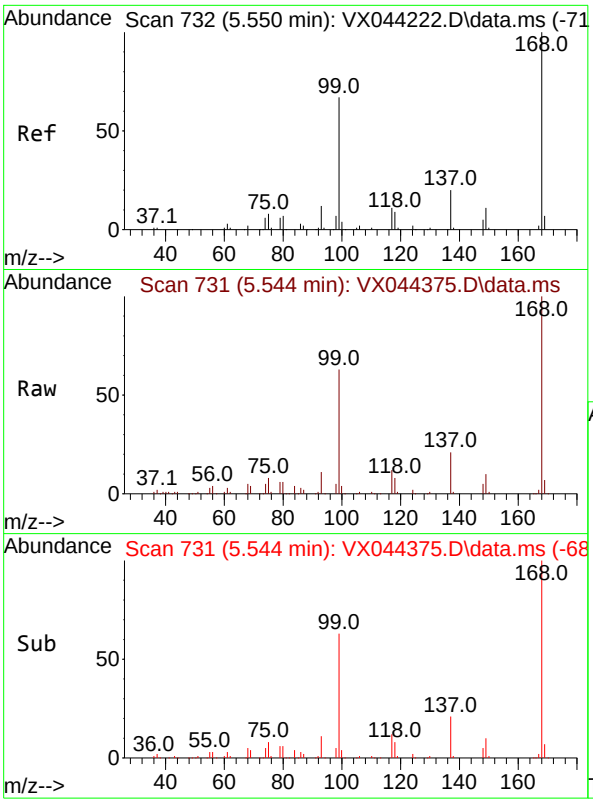
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044375.D
Acq On : 18 Dec 2024 11:57
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 19 00:40:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



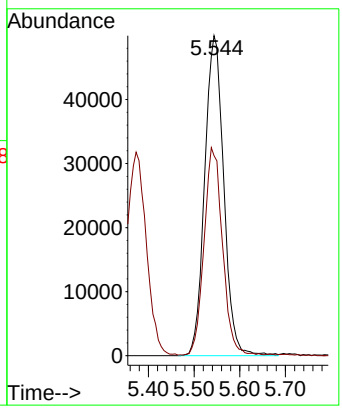


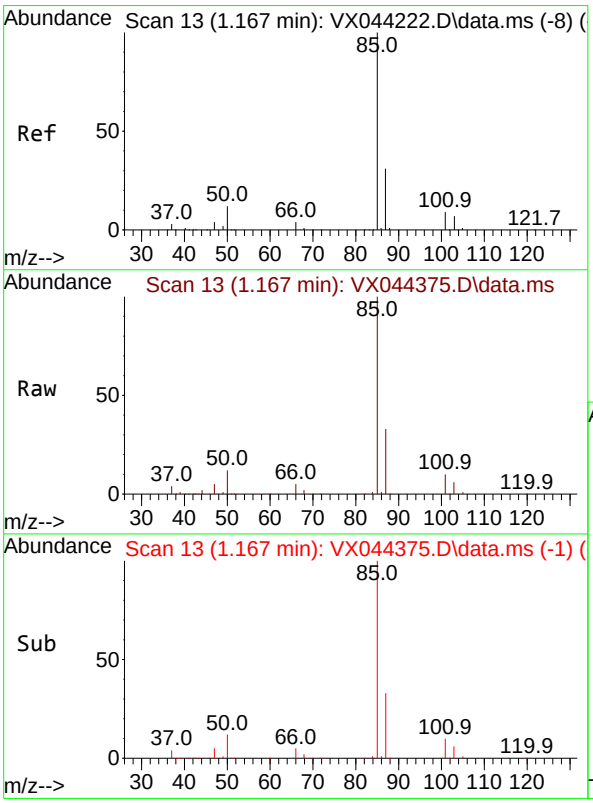
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 145222

Ion	Ratio	Lower	Upper
168	100		
99	62.3	53.4	80.0

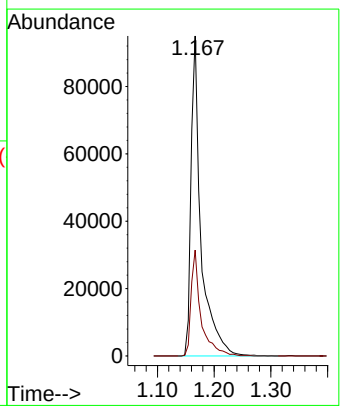


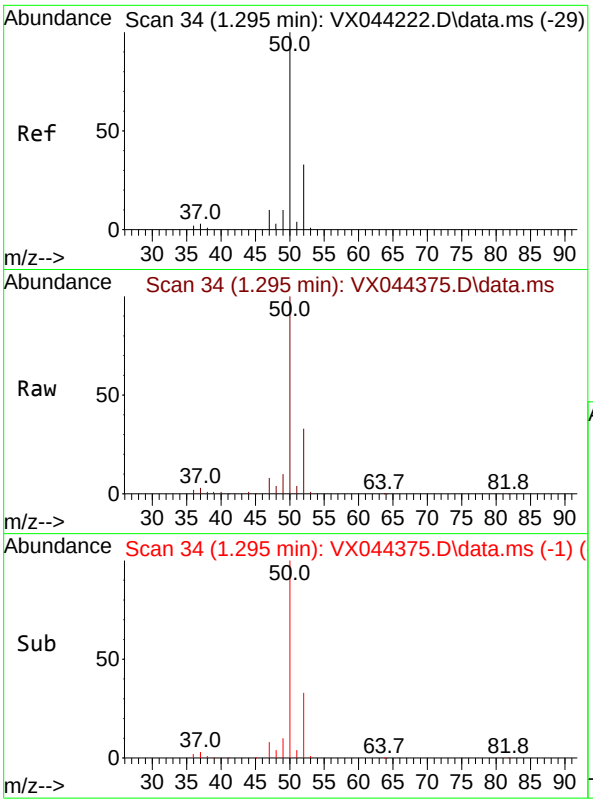


#2
Dichlorodifluoromethane
Concen: 51.725 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 85 Resp: 116148

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.4	46.4



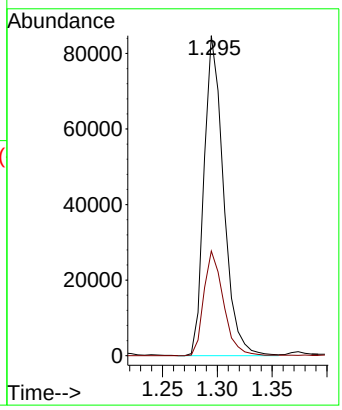


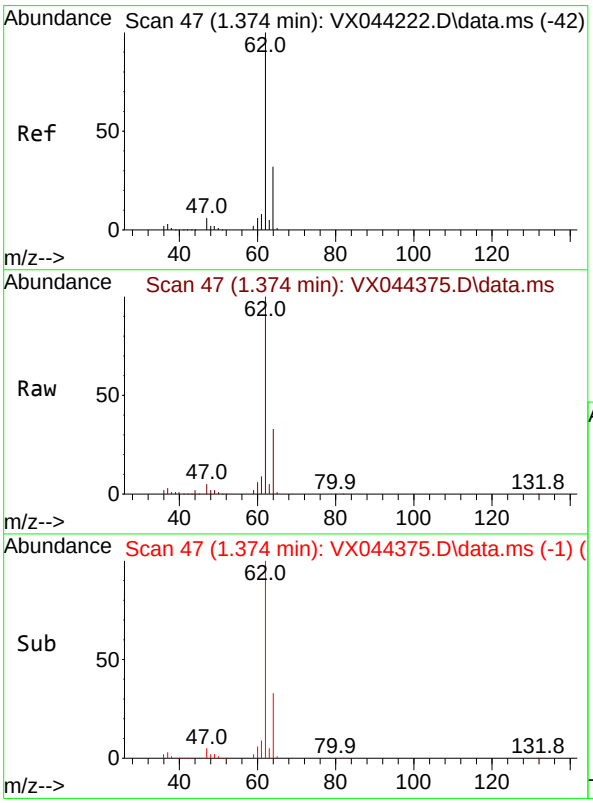
#3
Chloromethane
Concen: 48.687 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 104547

Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.5	39.7

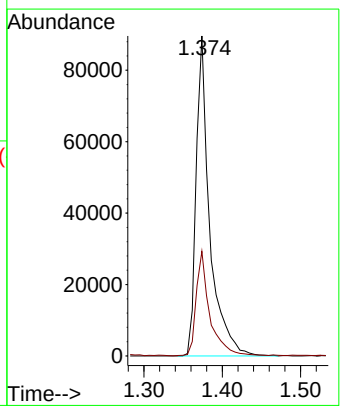


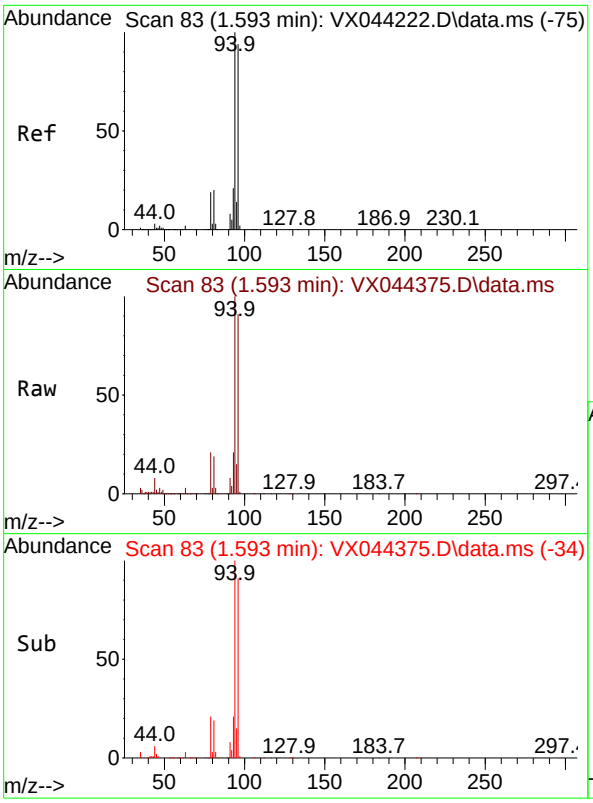


#4
Vinyl Chloride
Concen: 48.260 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 62 Resp: 107961

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.7	38.5



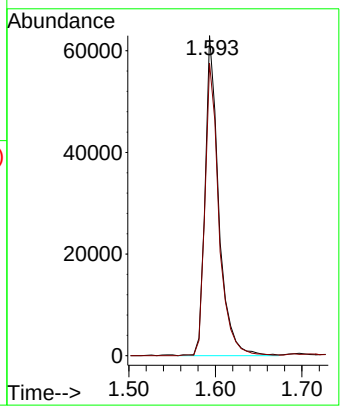


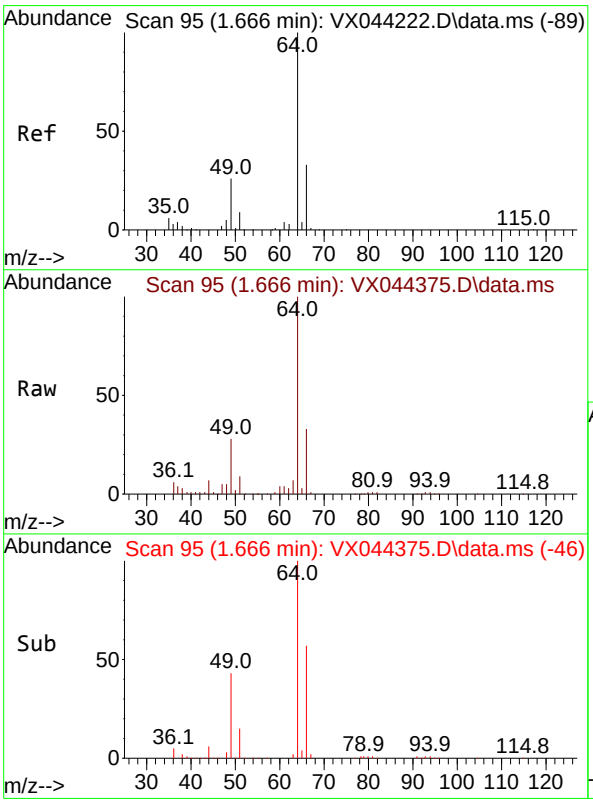
#5
Bromomethane
Concen: 43.497 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 69033

Ion	Ratio	Lower	Upper
94	100		
96	91.3	74.9	112.3

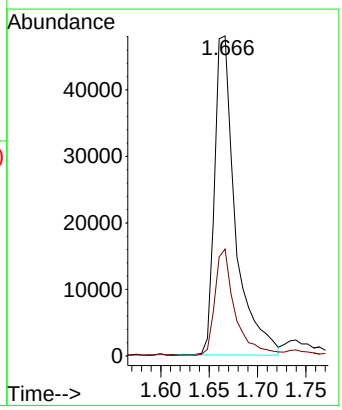


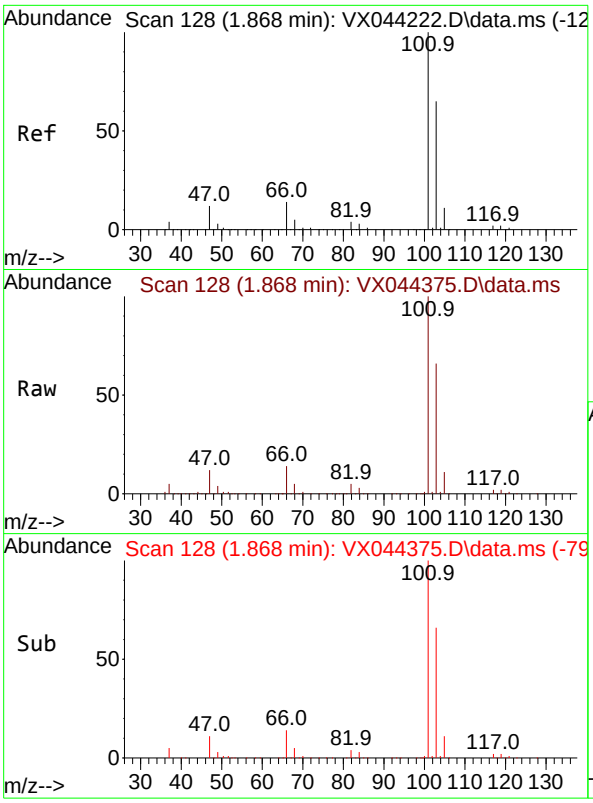


#6
Chloroethane
Concen: 51.515 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 64 Resp: 71760

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.6	39.8



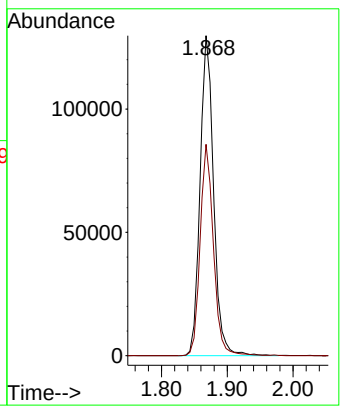


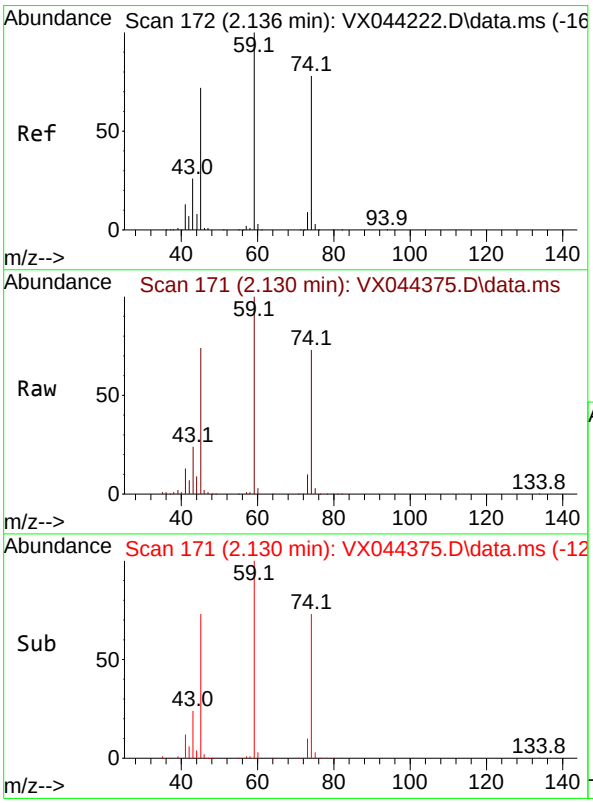
#7
Trichlorofluoromethane
Concen: 42.285 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 185191

Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.8	77.8

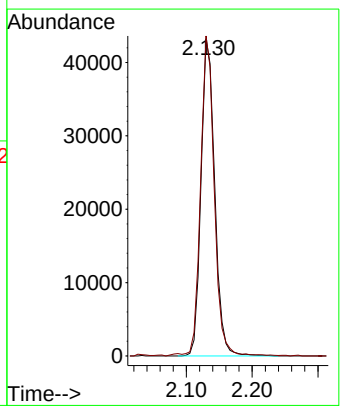


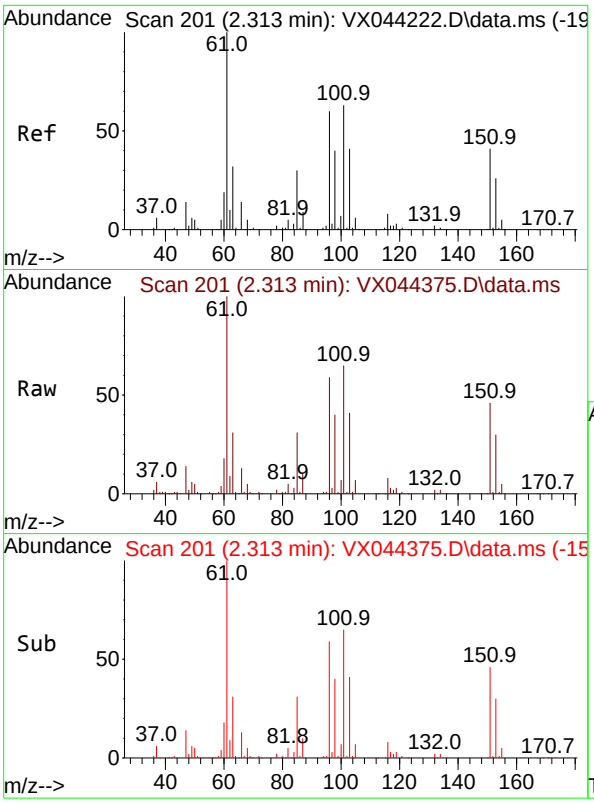


#8
Diethyl Ether
Concen: 41.863 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 74 Resp: 62582

Ion	Ratio	Lower	Upper
74	100		
45	101.1	48.4	145.0



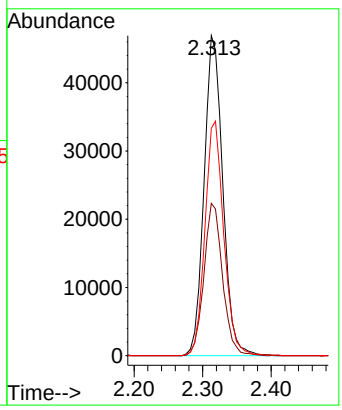


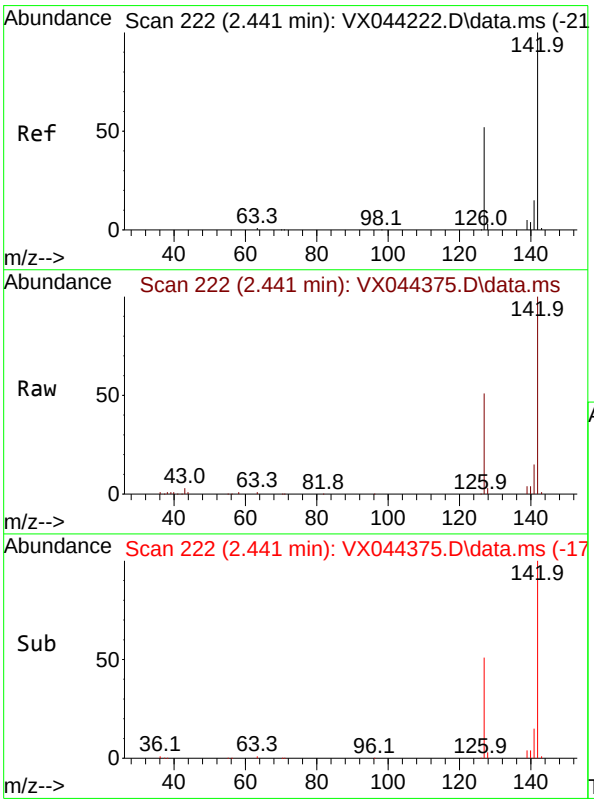
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.273 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 89093

Ion	Ratio	Lower	Upper
101	100		
85	47.4	38.5	57.7
151	73.8	55.8	83.6

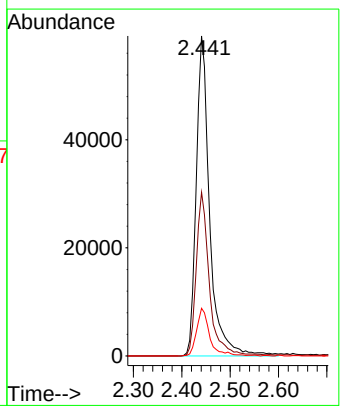


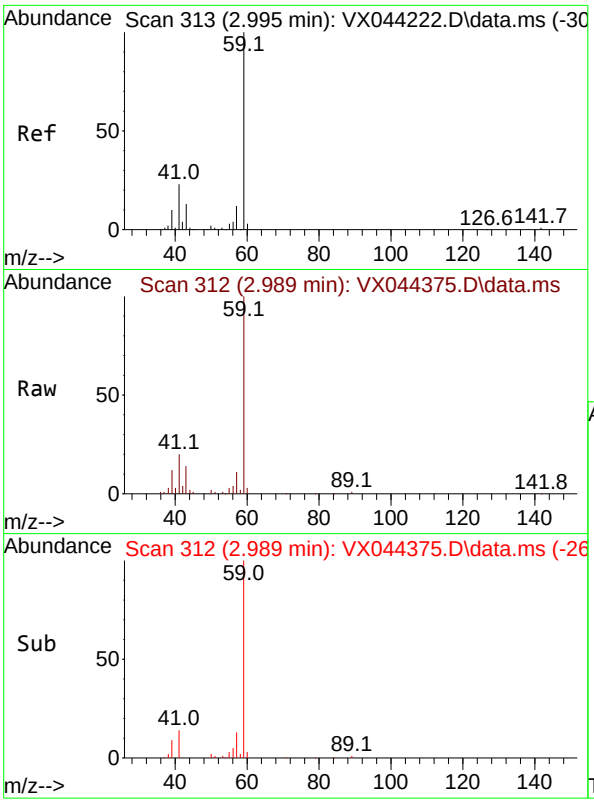


#10
Methyl Iodide
Concen: 48.954 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:142 Resp: 114340

Ion	Ratio	Lower	Upper
142	100		
127	50.0	41.8	62.8
141	14.4	11.5	17.3



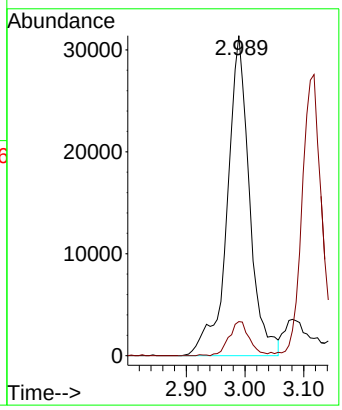


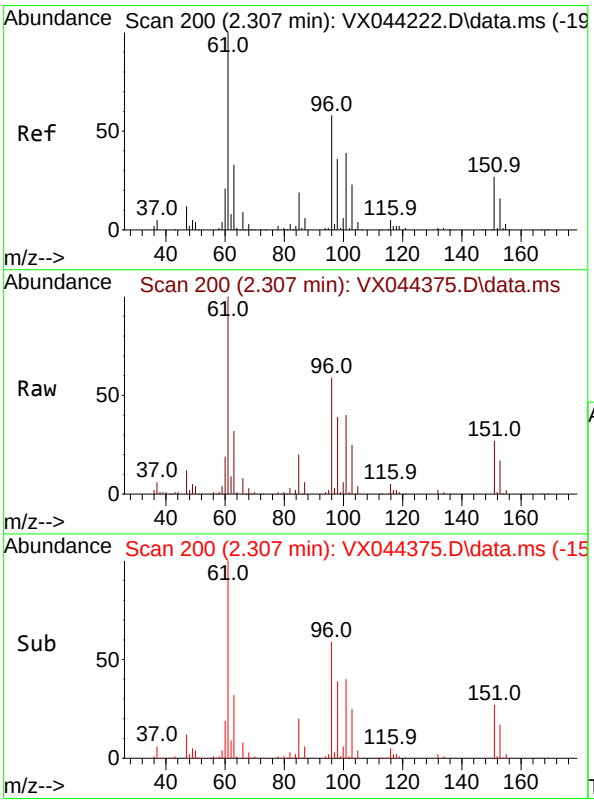
#11
Tert butyl alcohol
Concen: 230.596 ug/l
RT: 2.989 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 82750

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.8	13.2

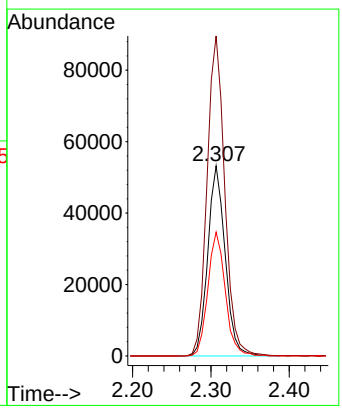


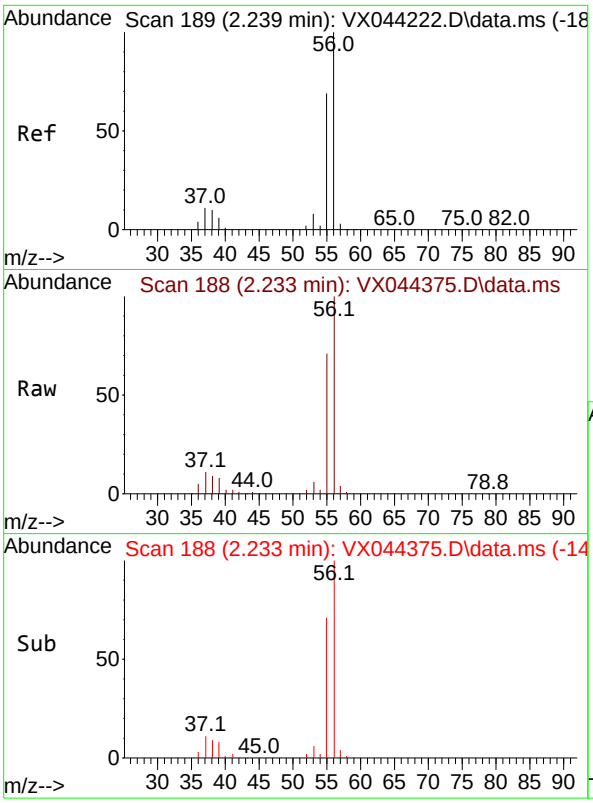


#12
1,1-Dichloroethene
Concen: 50.480 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 96 Resp: 82169

Ion	Ratio	Lower	Upper
96	100		
61	168.3	138.0	207.0
98	65.1	50.0	75.0



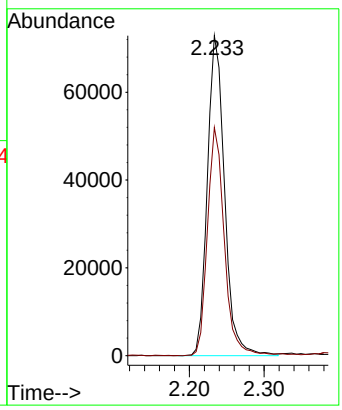


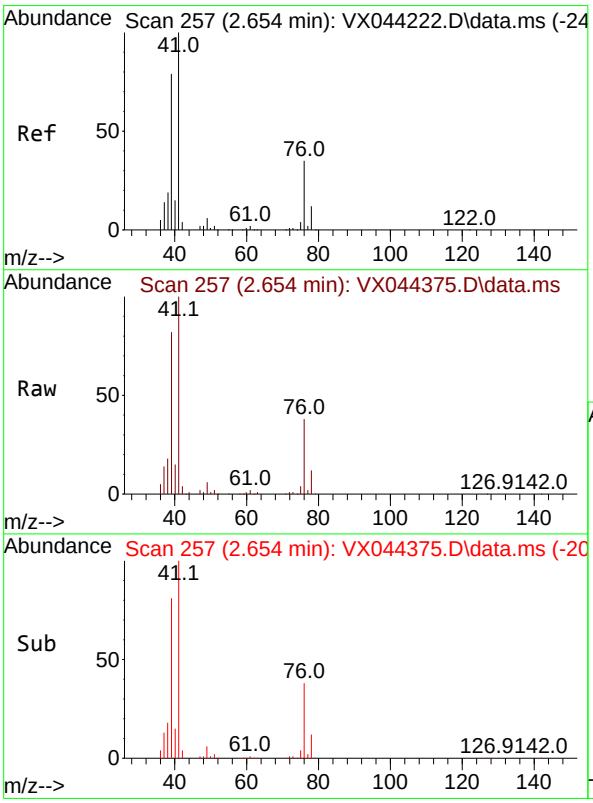
#13
Acrolein
Concen: 224.413 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 116572

Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.6	84.8

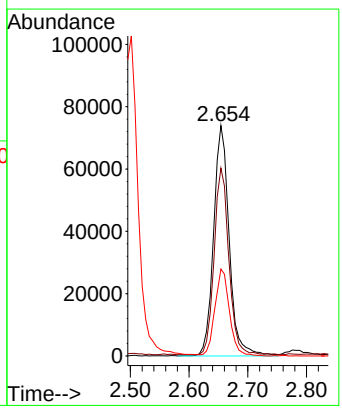


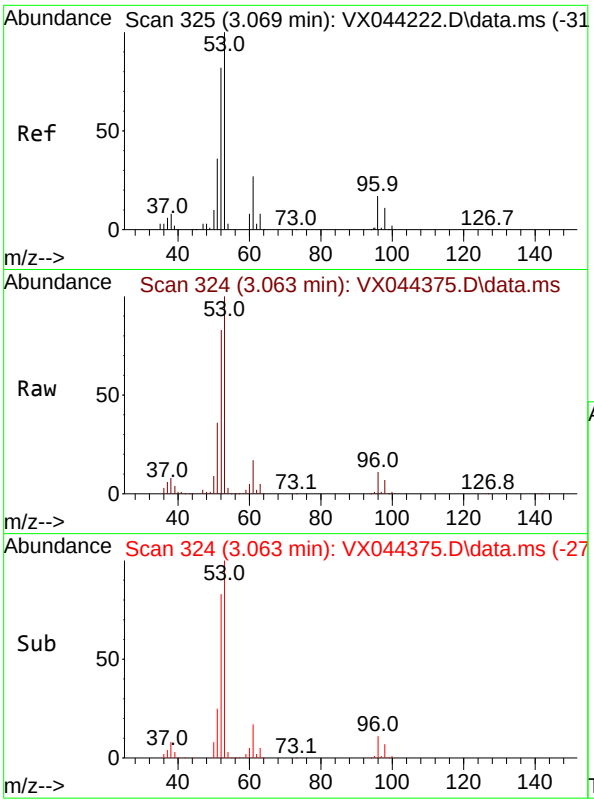


#14
Allyl chloride
Concen: 50.357 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 41 Resp: 136530

Ion	Ratio	Lower	Upper
41	100		
39	76.4	61.9	92.9
76	35.1	27.4	41.2



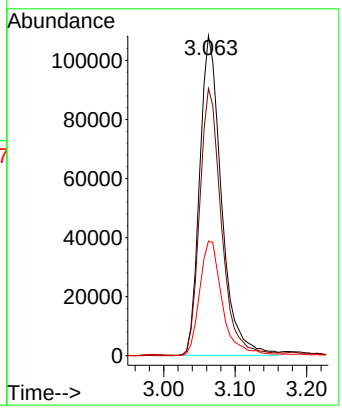


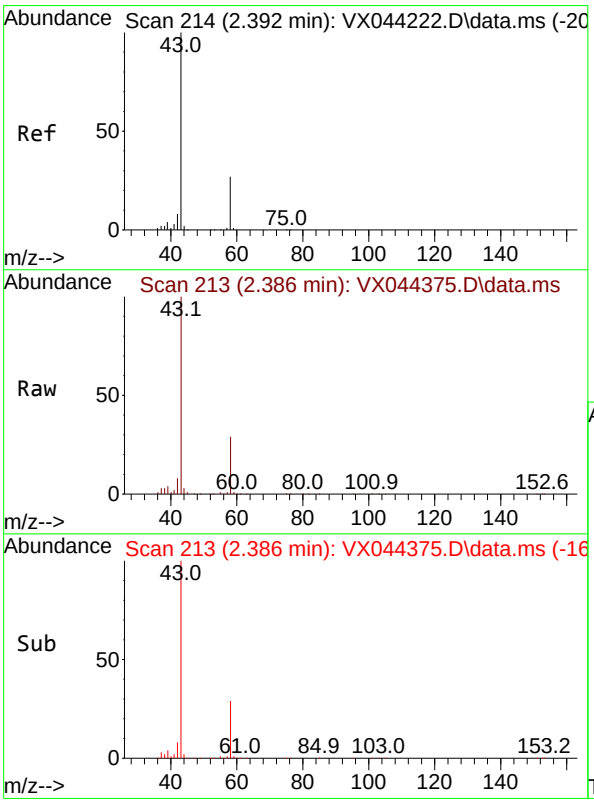
#15
Acrylonitrile
Concen: 231.100 ug/l
RT: 3.063 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 229722

Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.4	101.0
51	37.7	30.3	45.5

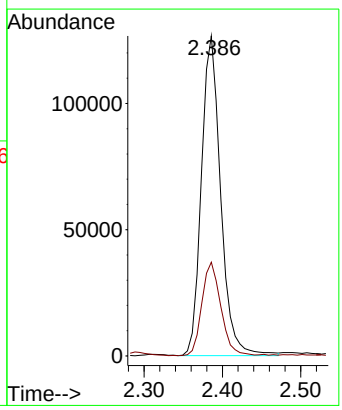


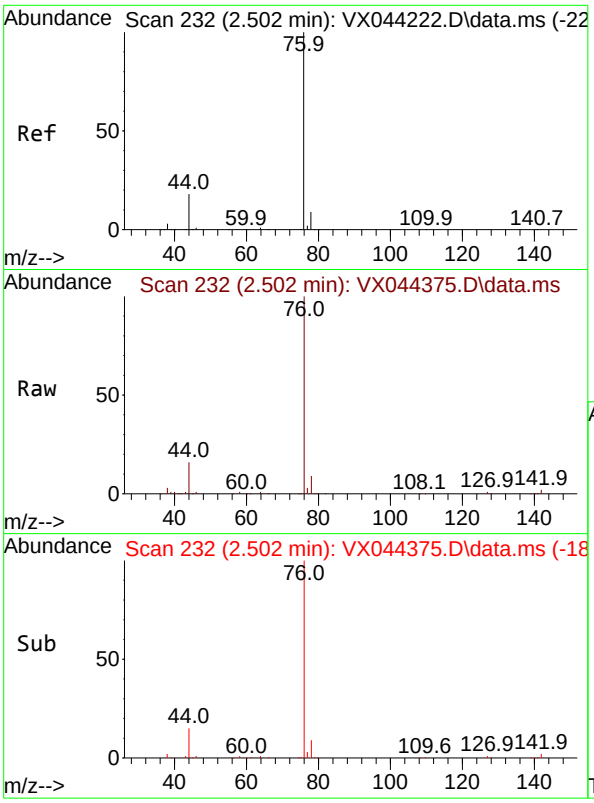


#16
Acetone
Concen: 208.352 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 216281

Ion	Ratio	Lower	Upper
43	100		
58	29.2	21.6	32.4



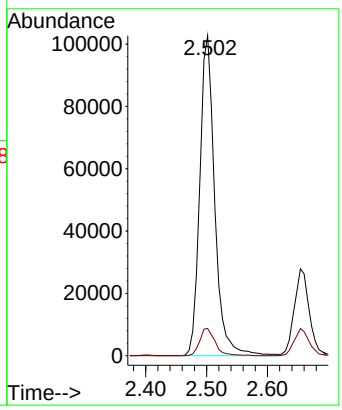


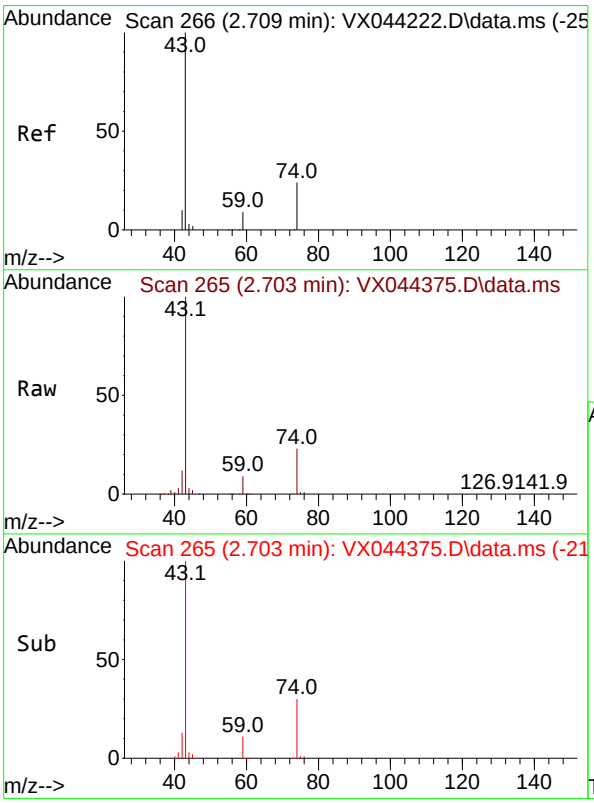
#17
Carbon Disulfide
Concen: 56.760 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 175625

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.0

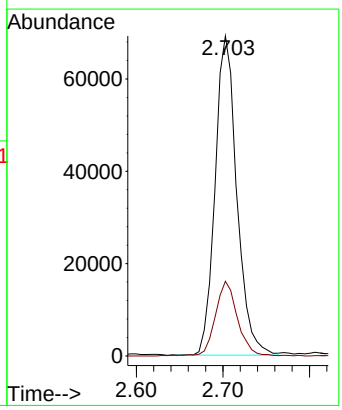


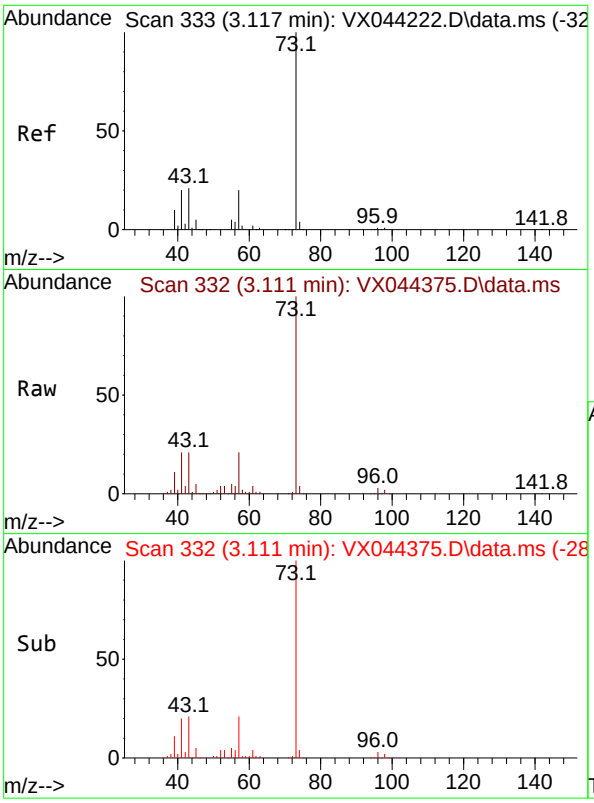


#18
Methyl Acetate
Concen: 45.040 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 120549

Ion	Ratio	Lower	Upper
43	100		
74	24.0	17.7	26.5



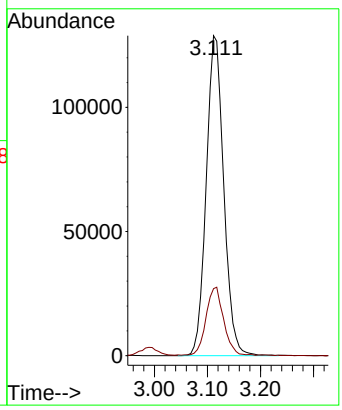


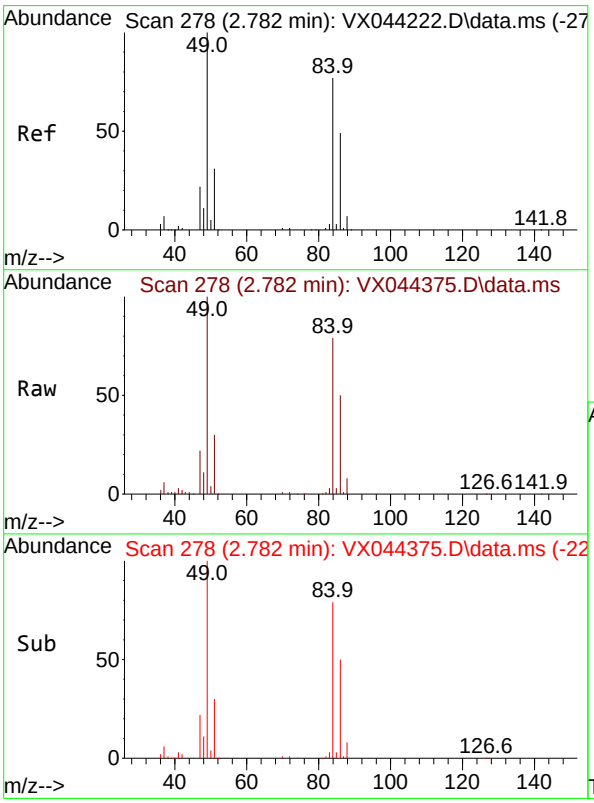
#19
Methyl tert-butyl Ether
Concen: 46.491 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 295317

Ion	Ratio	Lower	Upper
73	100		
57	20.8	16.2	24.4

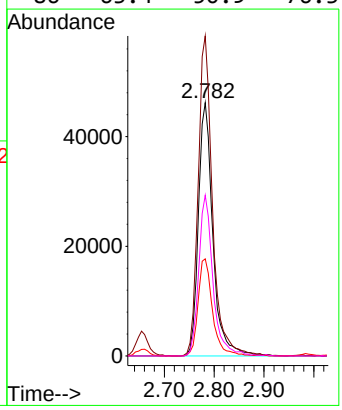


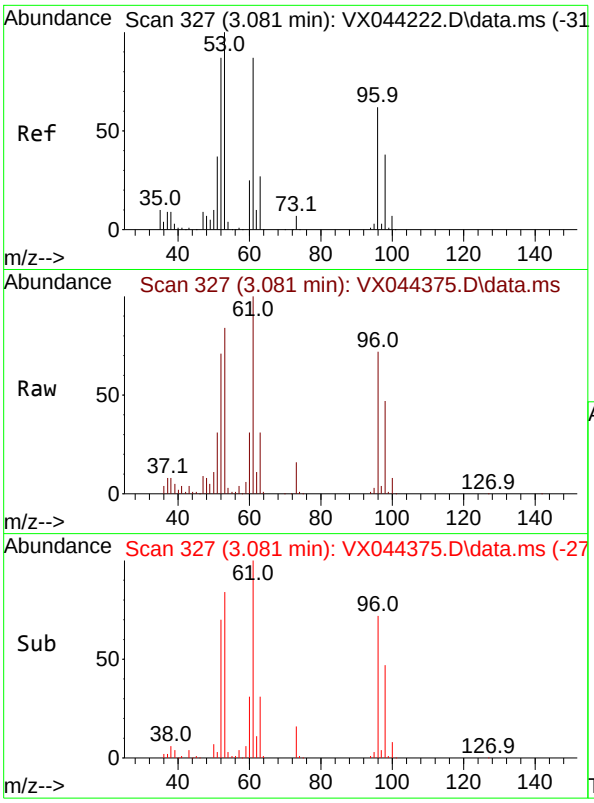


#20
Methylene Chloride
Concen: 47.904 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 84 Resp: 93400

Ion	Ratio	Lower	Upper
84	100		
49	126.3	104.2	156.4
51	38.3	32.2	48.4
86	63.4	50.9	76.3



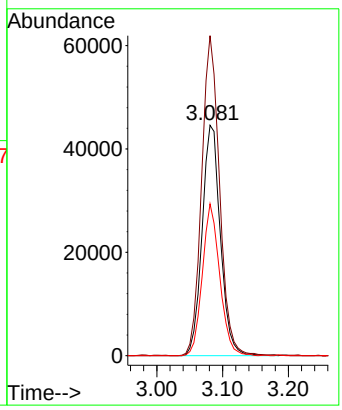


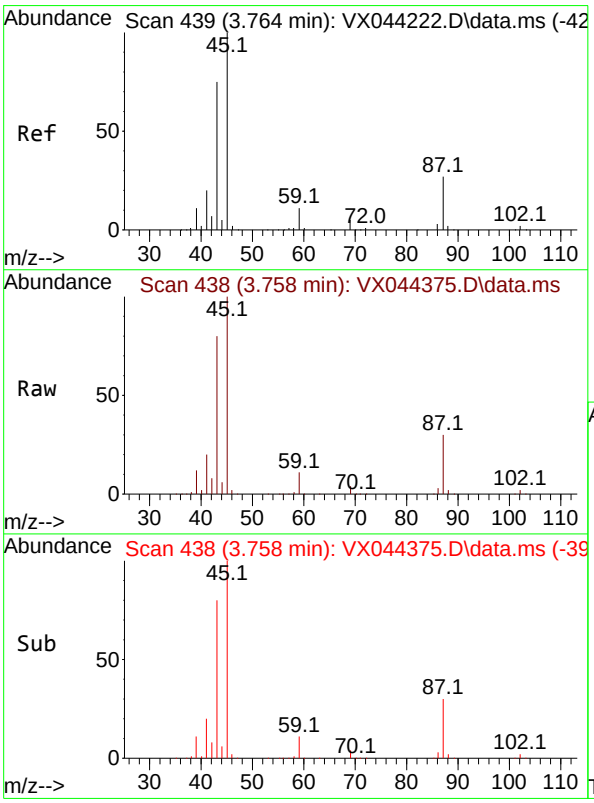
#21
trans-1,2-Dichloroethene
Concen: 49.833 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 86210

Ion	Ratio	Lower	Upper
96	100		
61	138.9	112.0	168.0
98	65.9	48.8	73.2

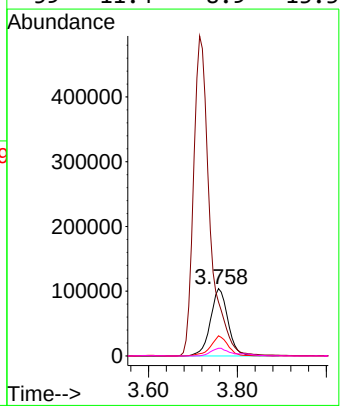


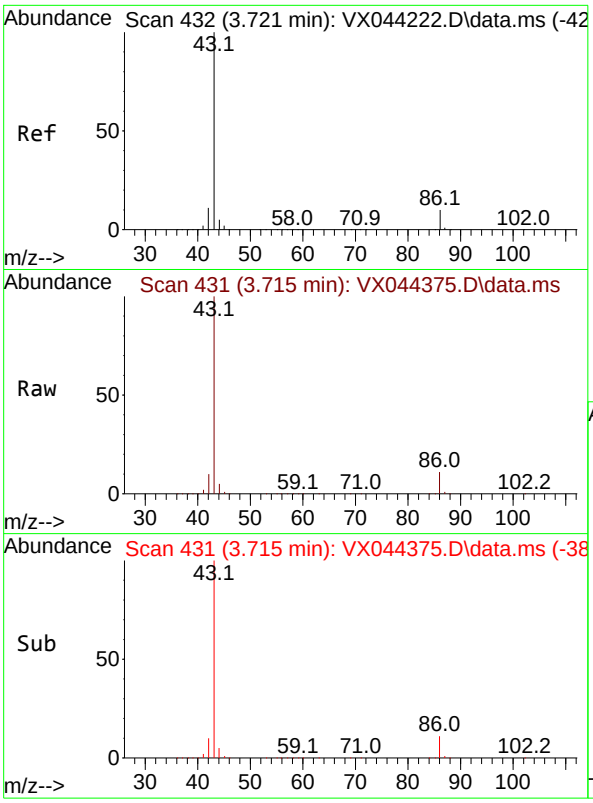


#22
Diisopropyl ether
Concen: 46.766 ug/l
RT: 3.758 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 45 Resp: 285517

Ion	Ratio	Lower	Upper
45	100		
43	80.0	60.2	90.2
87	30.0	21.2	31.8
59	11.4	8.9	13.3



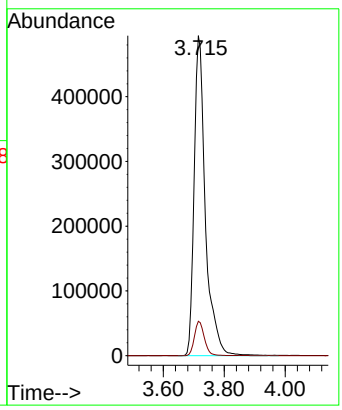


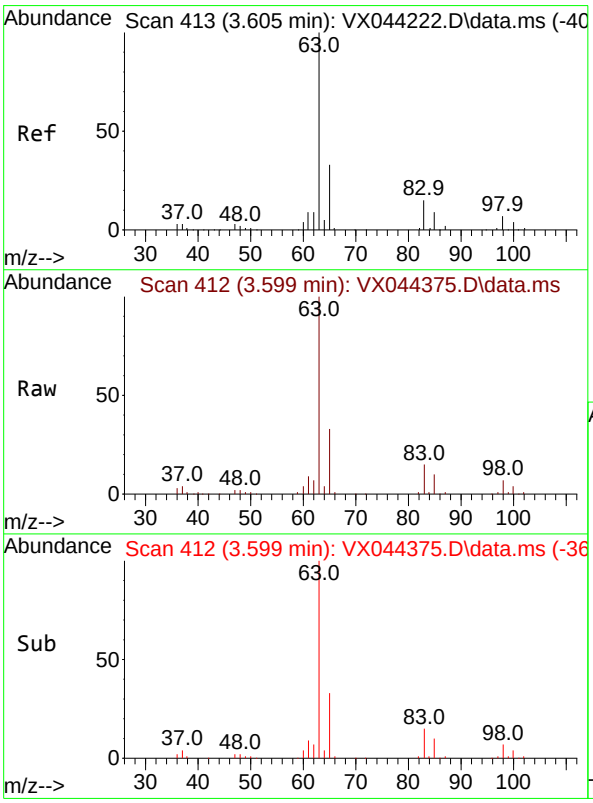
#23
Vinyl Acetate
Concen: 255.320 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1267305

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2

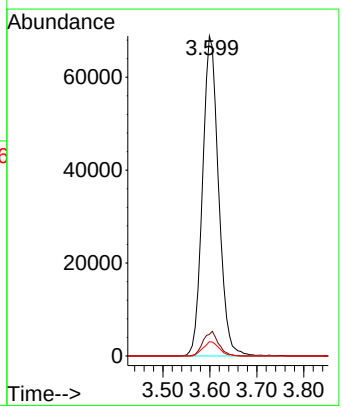


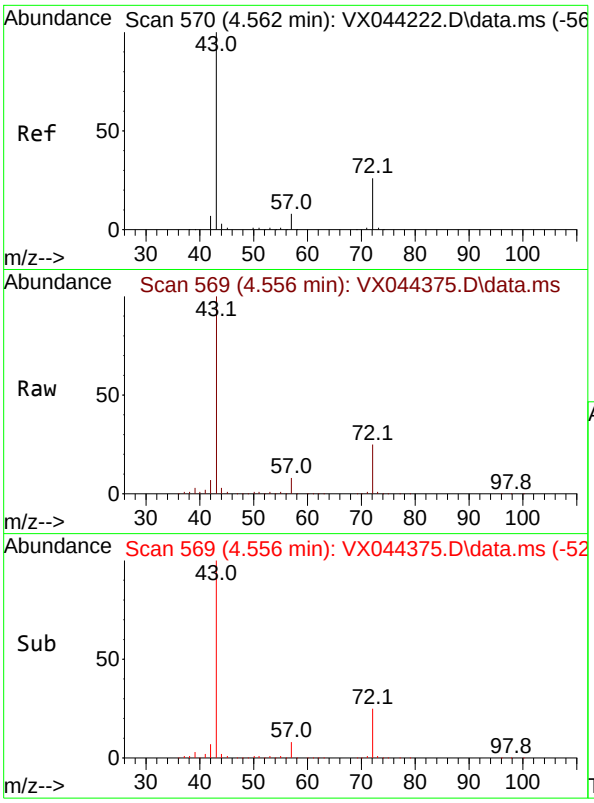


#24
1,1-Dichloroethane
Concen: 47.946 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 63 Resp: 163171

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.6	10.8
100	4.4	2.1	6.3



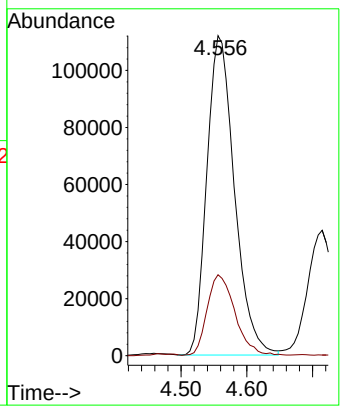


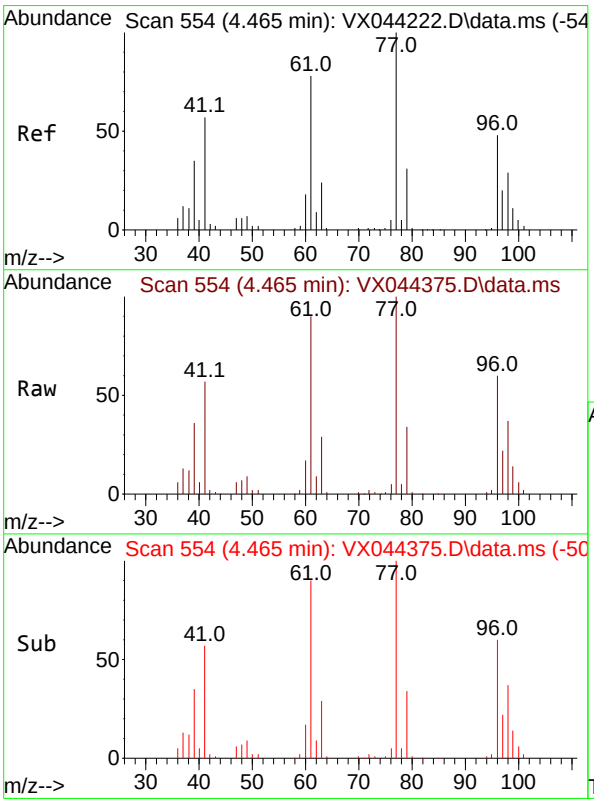
#25
2-Butanone
Concen: 221.473 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 326836

Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.2	30.4

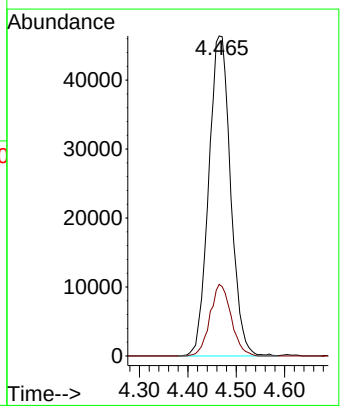


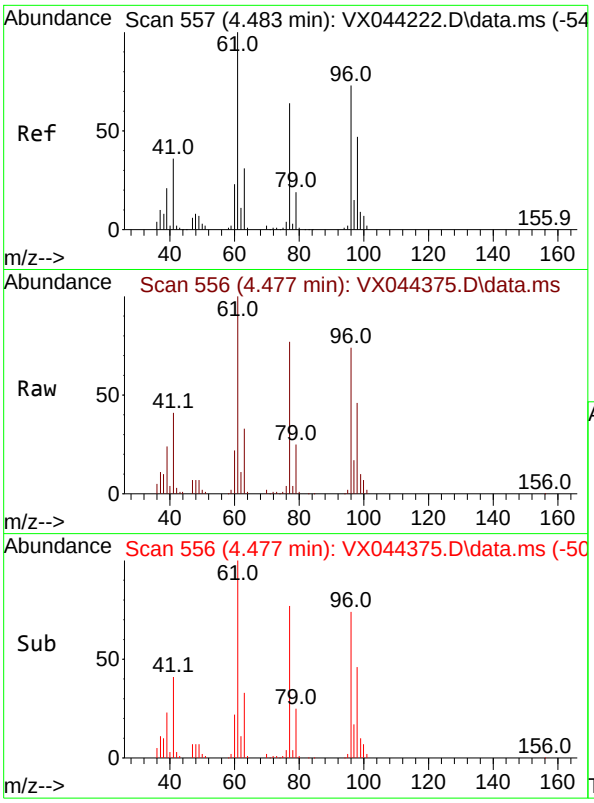


#26
2,2-Dichloropropane
Concen: 52.773 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 77 Resp: 145905

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.7	32.1



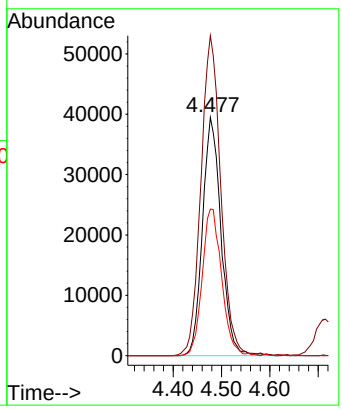


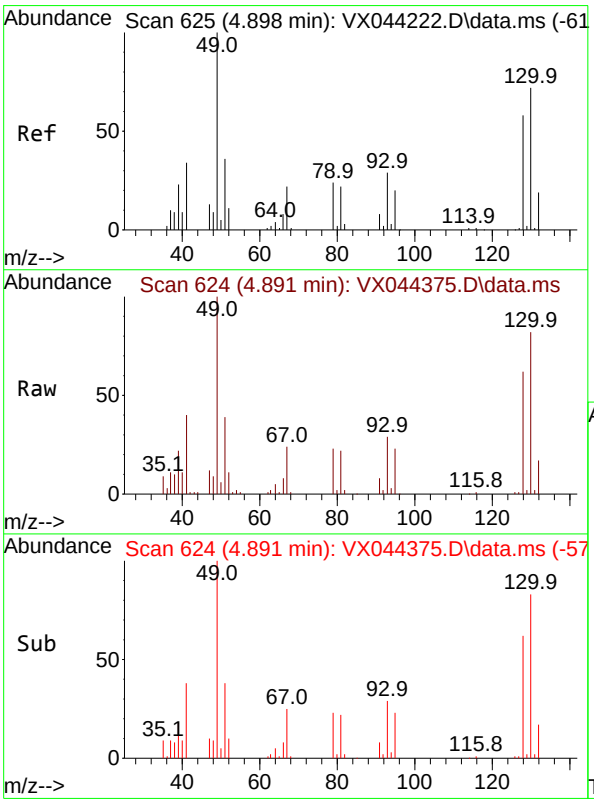
#27
cis-1,2-Dichloroethene
Concen: 47.800 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 105020

Ion	Ratio	Lower	Upper
96	100		
61	144.4	0.0	299.0
98	64.6	0.0	129.0

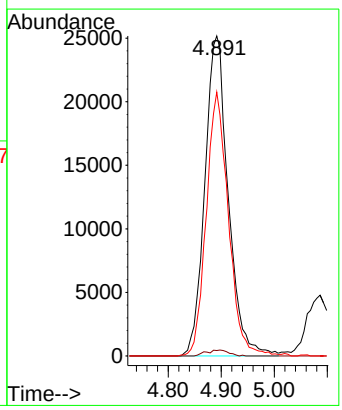


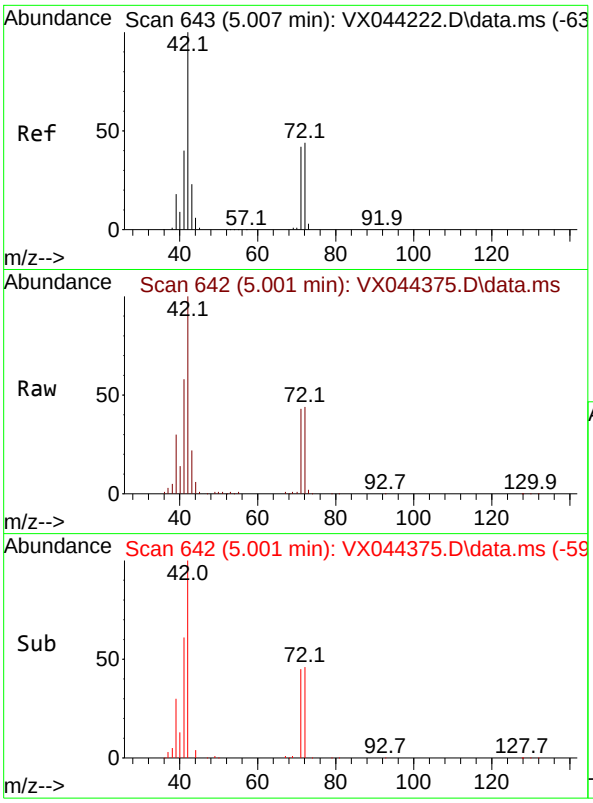


#28
Bromochloromethane
Concen: 46.252 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 49 Resp: 77185

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	78.1	62.1	93.1



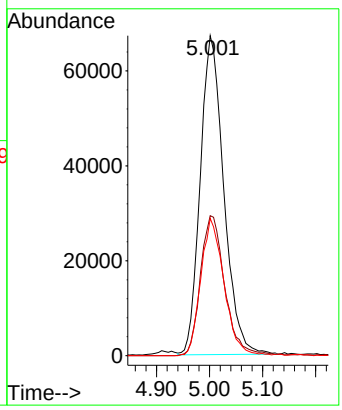


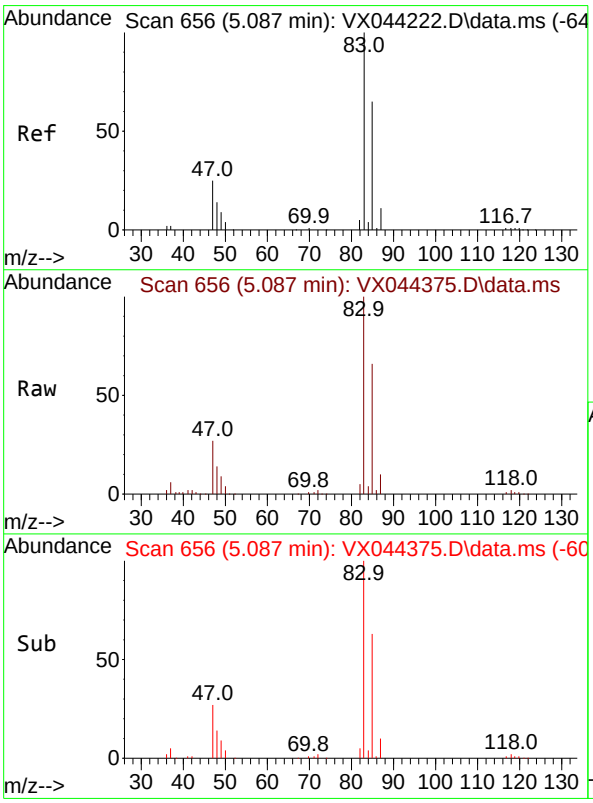
#29
Tetrahydrofuran
Concen: 219.106 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 207544

Ion	Ratio	Lower	Upper
42	100		
72	45.5	37.0	55.6
71	42.5	33.6	50.4

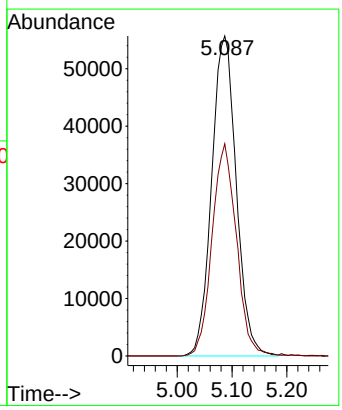


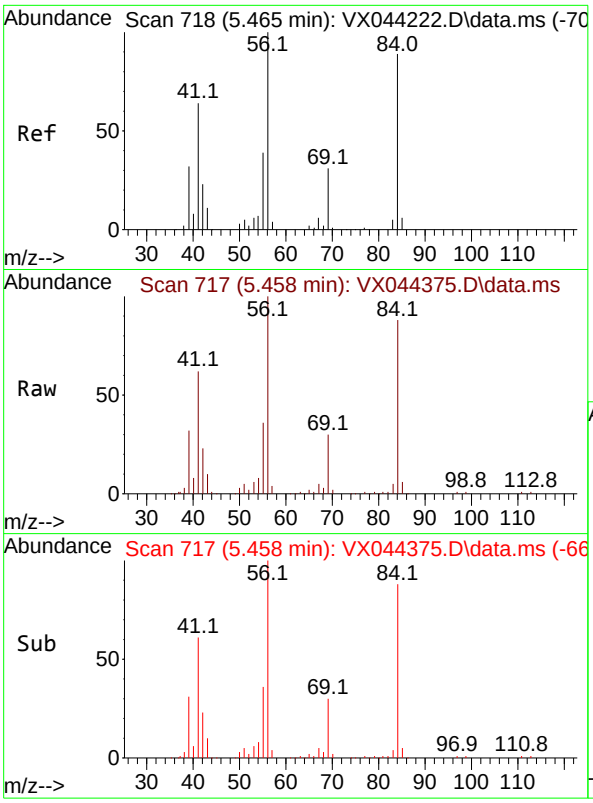


#30
Chloroform
Concen: 45.441 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 83 Resp: 173750

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.6	77.4



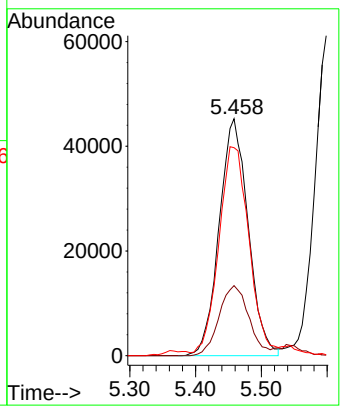


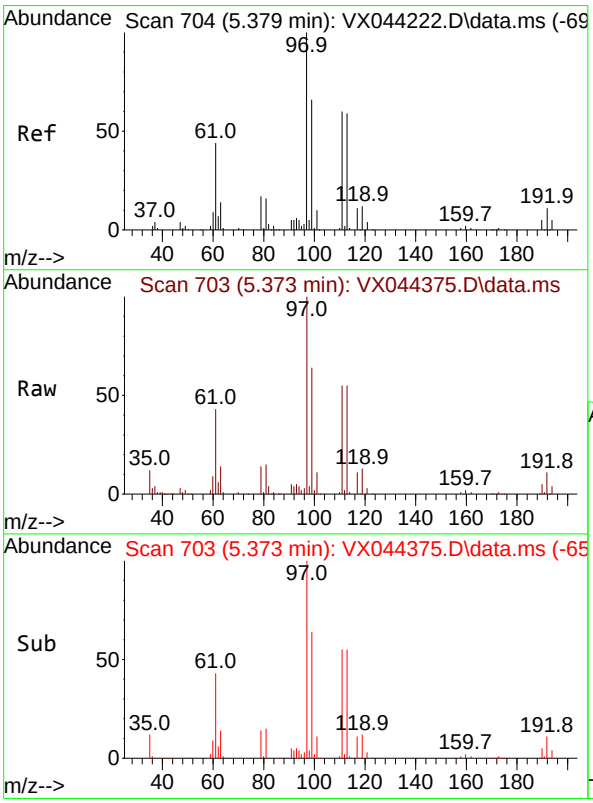
#31
Cyclohexane
Concen: 50.494 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 138763

Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.7	37.1
84	86.2	71.0	106.6

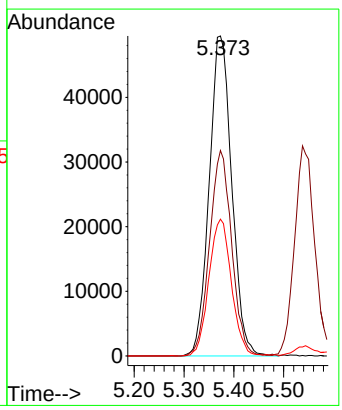


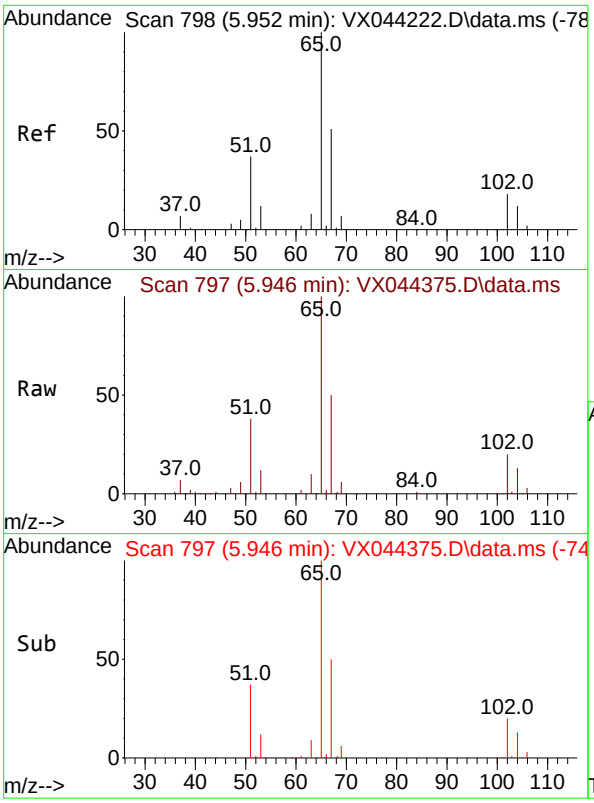


#32
1,1,1-Trichloroethane
Concen: 49.028 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 97 Resp: 155612

Ion	Ratio	Lower	Upper
97	100		
99	63.0	50.8	76.2
61	42.7	35.2	52.8



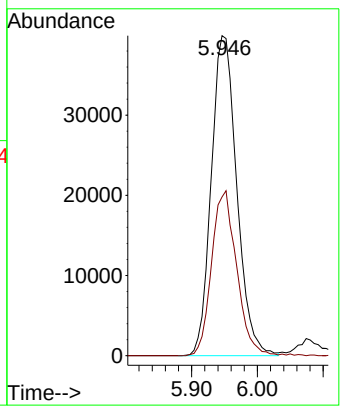


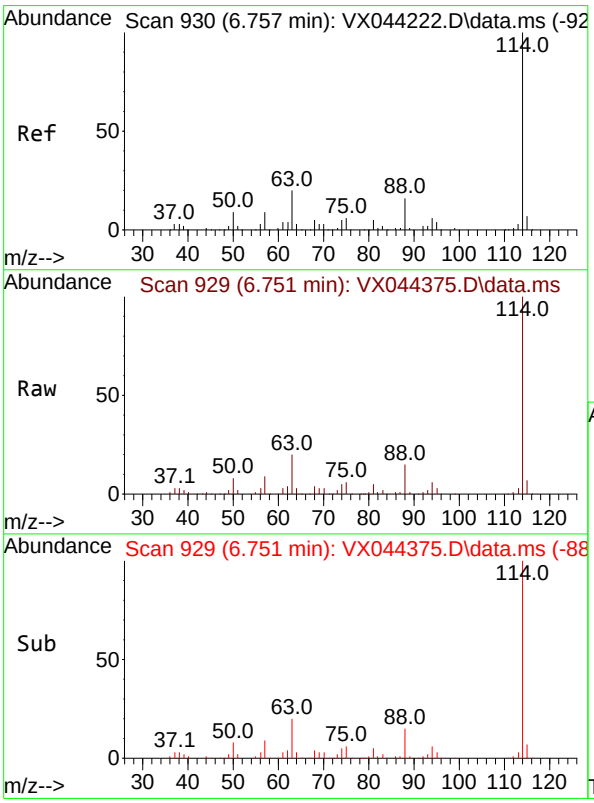
#33
1,2-Dichloroethane-d4
Concen: 42.332 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 107787

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	101.6

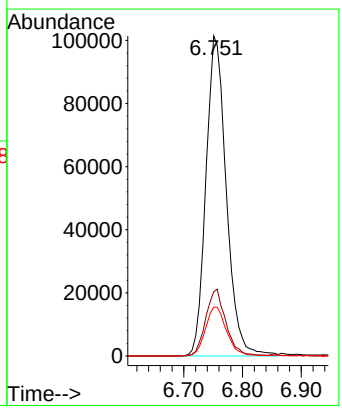


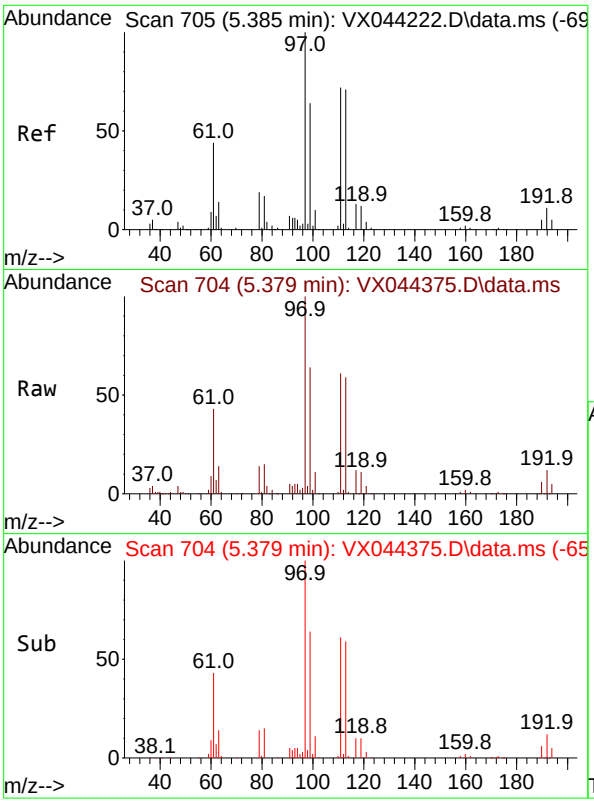


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:114 Resp: 244425

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.6
88	15.3	0.0	31.8



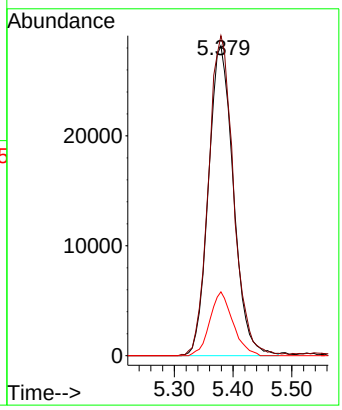


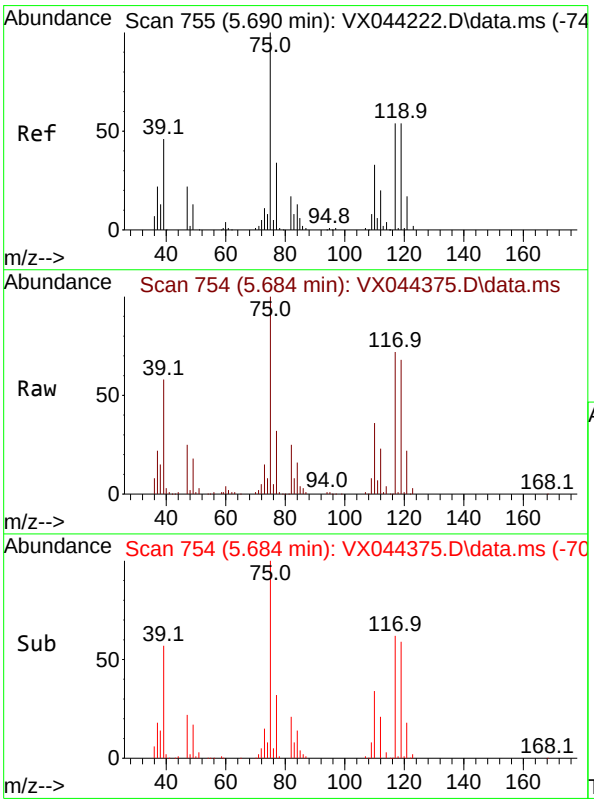
#35
Dibromofluoromethane
Concen: 49.107 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 83132

Ion	Ratio	Lower	Upper
113	100		
111	103.9	80.4	120.6
192	19.0	13.3	19.9

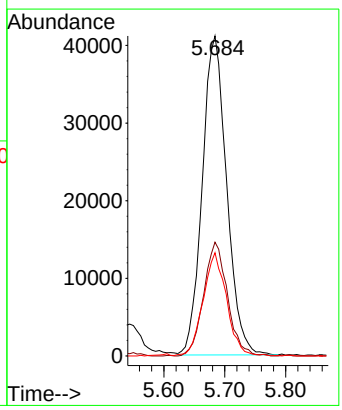


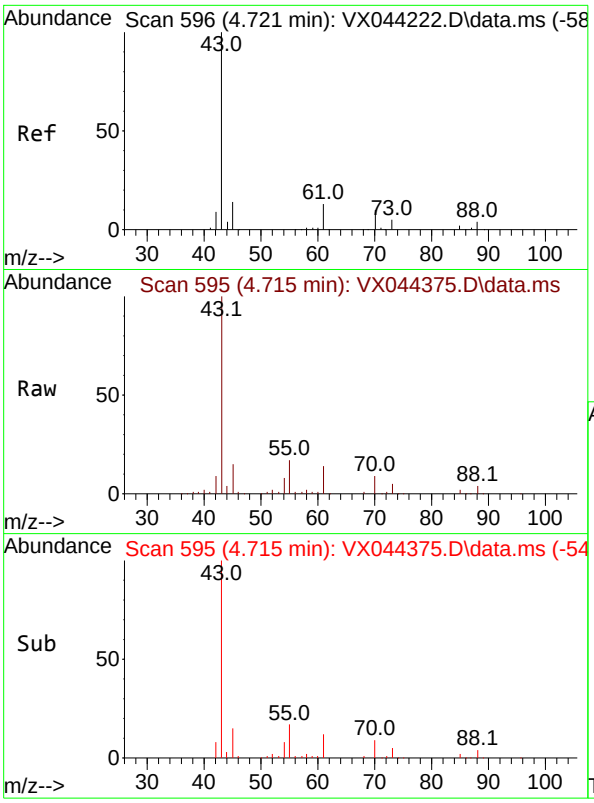


#36
1,1-Dichloropropene
Concen: 52.248 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 114333

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.3	51.7
77	31.2	25.4	38.0



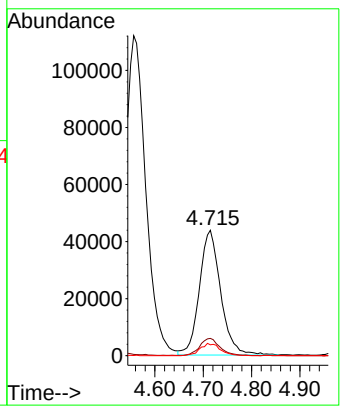


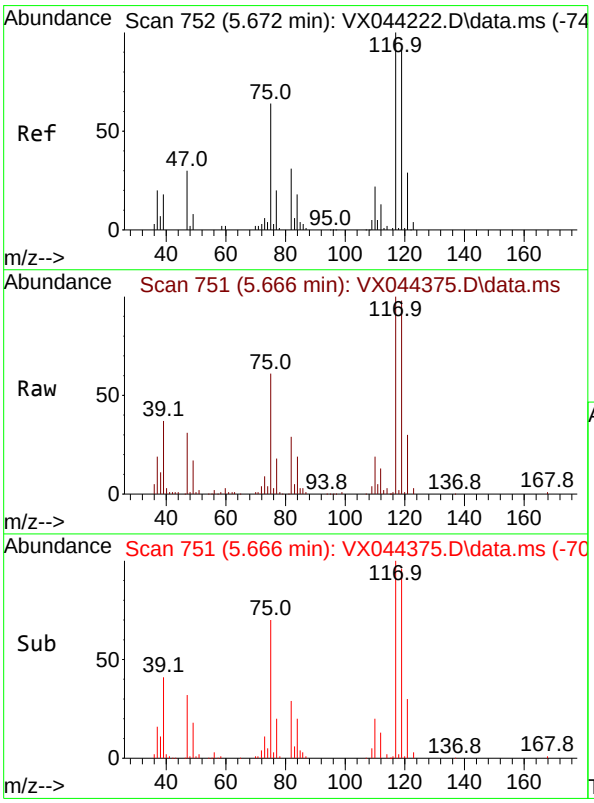
#37
Ethyl Acetate
Concen: 49.494 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 133879

Ion	Ratio	Lower	Upper
43	100		
61	13.4	9.8	14.8
70	9.3	7.7	11.5

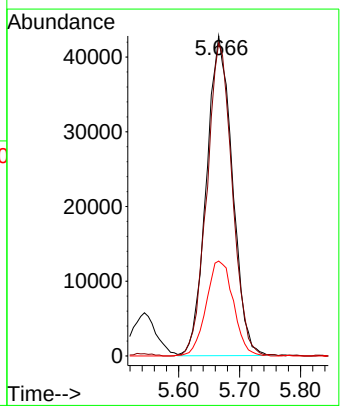


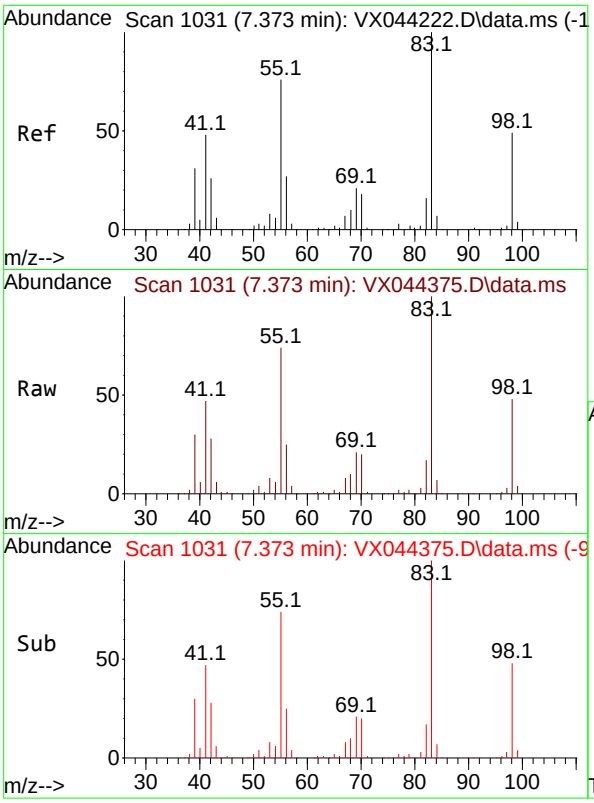


#38
Carbon Tetrachloride
Concen: 53.675 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:117 Resp: 126452

Ion	Ratio	Lower	Upper
117	100		
119	97.8	74.2	111.4
121	29.7	23.0	34.6



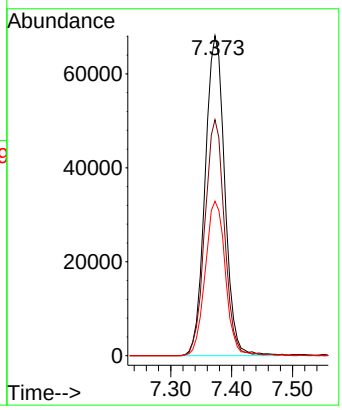


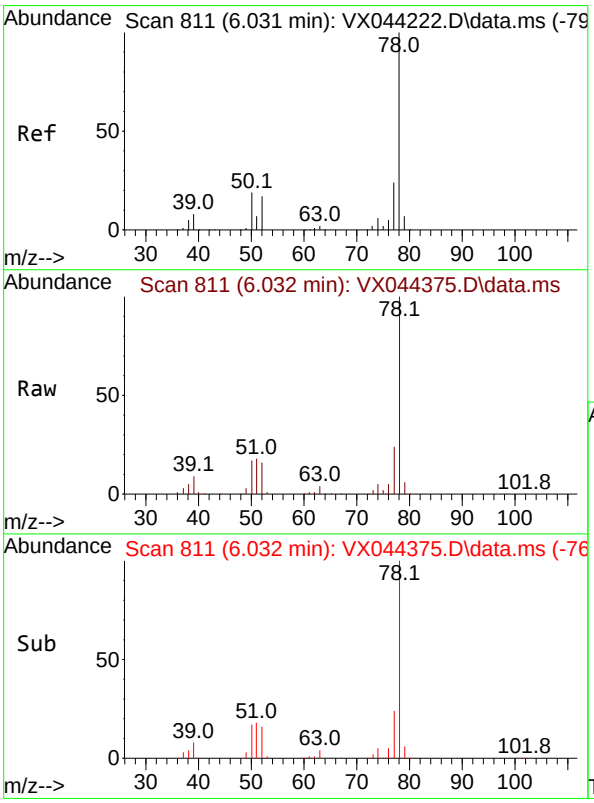
#39
Methylcyclohexane
Concen: 58.275 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 152449

Ion	Ratio	Lower	Upper
83	100		
55	73.7	60.7	91.1
98	48.3	38.9	58.3

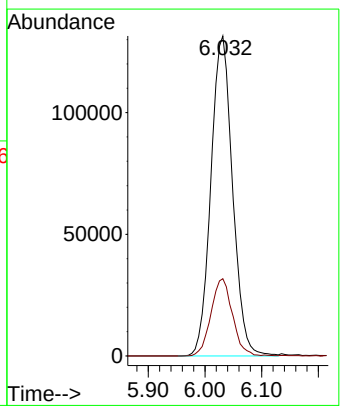


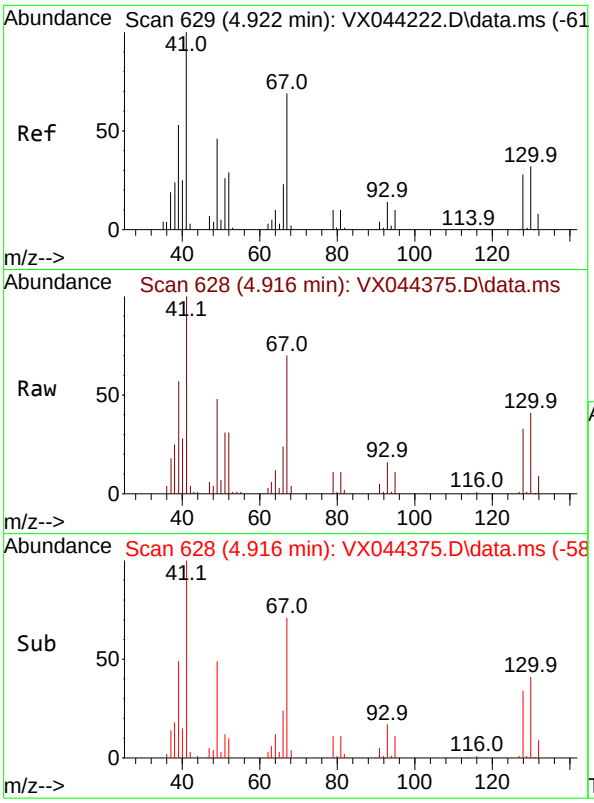


#40
Benzene
Concen: 52.550 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 78 Resp: 349139

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.3	28.9



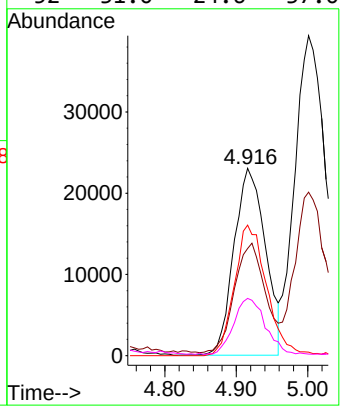


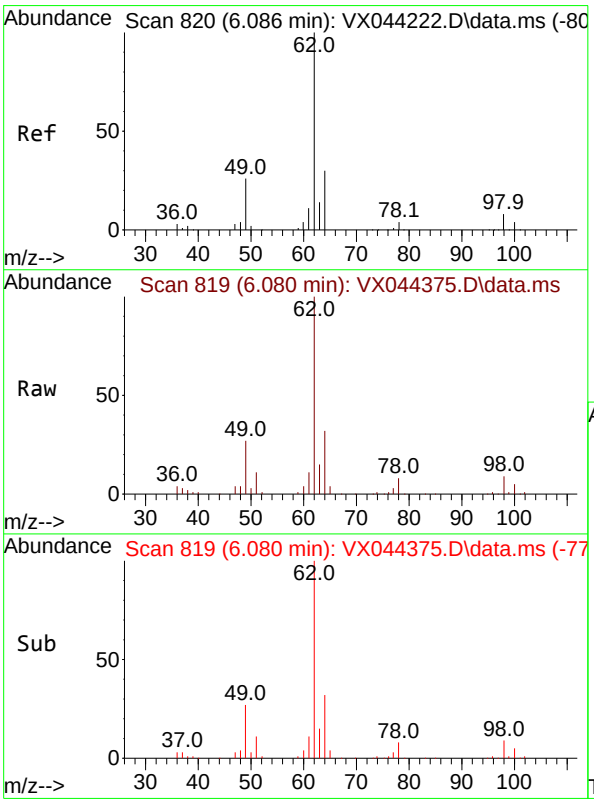
#41
Methacrylonitrile
Concen: 49.080 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 70496

Ion	Ratio	Lower	Upper
41	100		
39	57.1	44.2	66.4
67	71.8	57.2	85.8
52	31.0	24.6	37.0

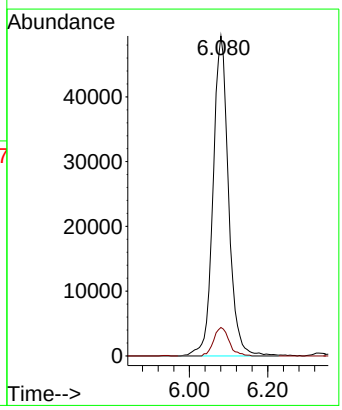


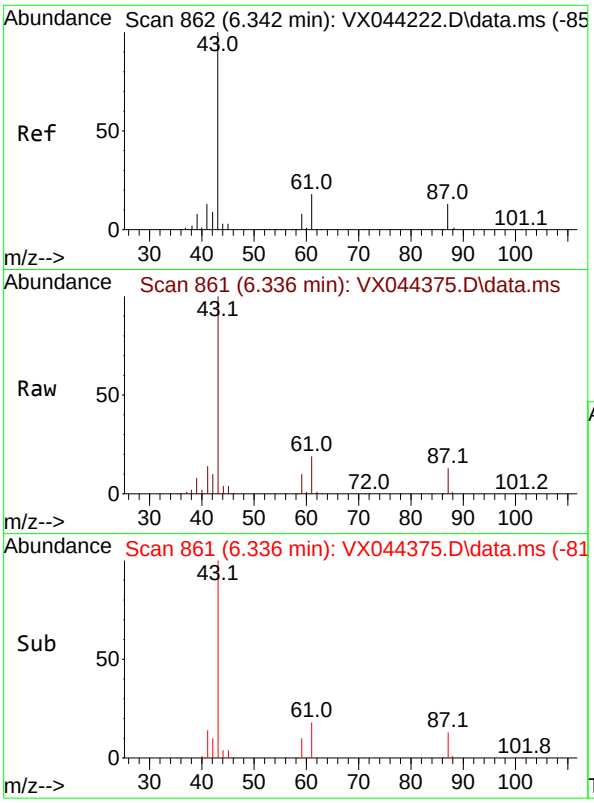


#42
1,2-Dichloroethane
Concen: 49.531 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 62 Resp: 135560

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	15.8



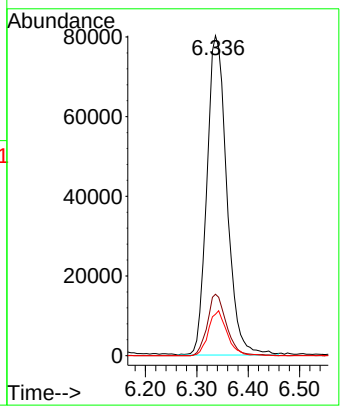


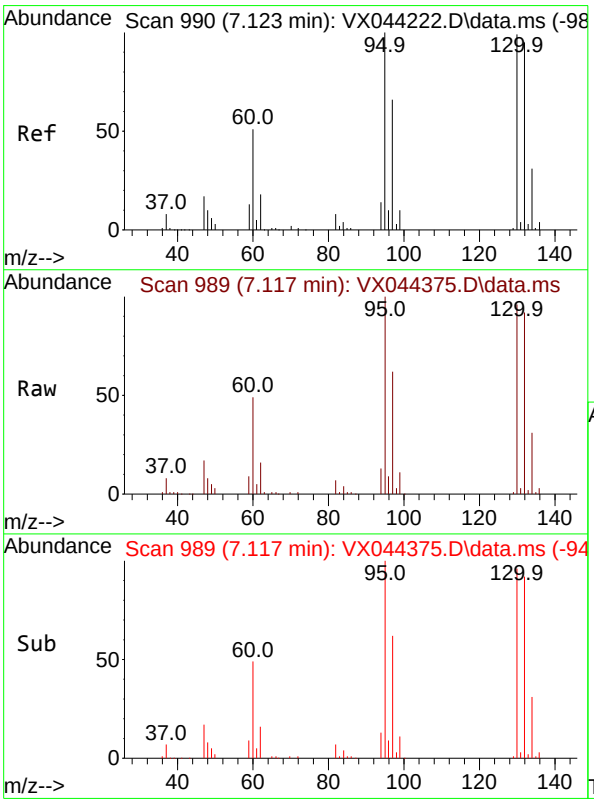
#43
Isopropyl Acetate
Concen: 51.210 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 216506

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.2	21.2
87	13.2	10.2	15.2

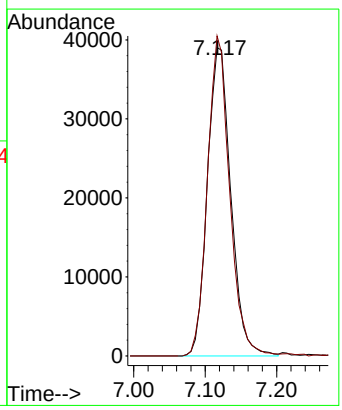


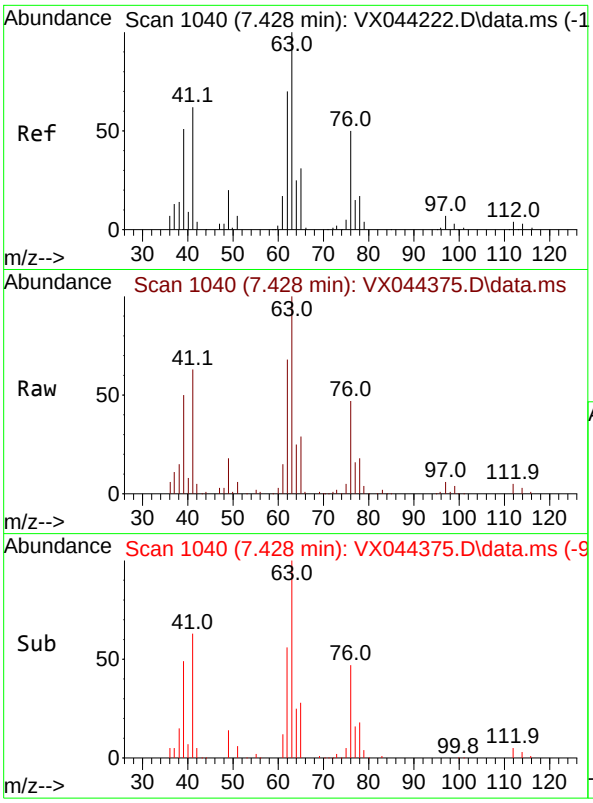


#44
Trichloroethene
Concen: 53.650 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:130 Resp: 88888

Ion	Ratio	Lower	Upper
130	100		
95	103.8	0.0	201.4



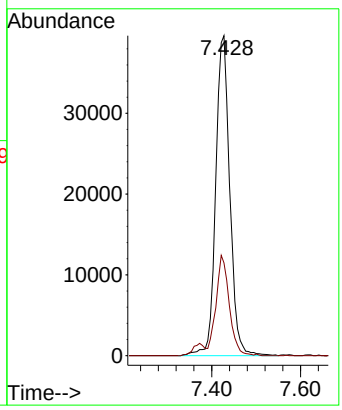


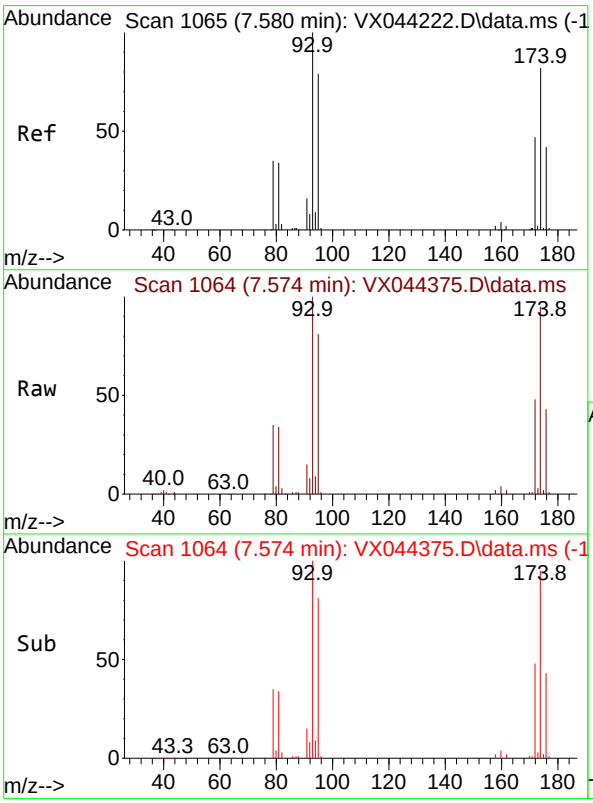
#45
1,2-Dichloropropane
Concen: 51.252 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 86995

Ion	Ratio	Lower	Upper
63	100		
65	29.0	24.6	37.0

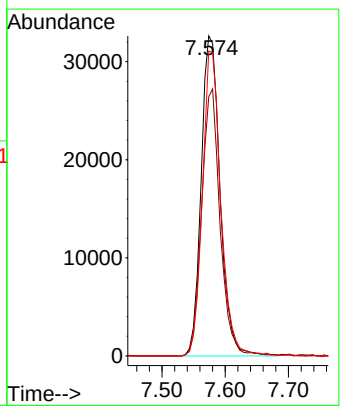


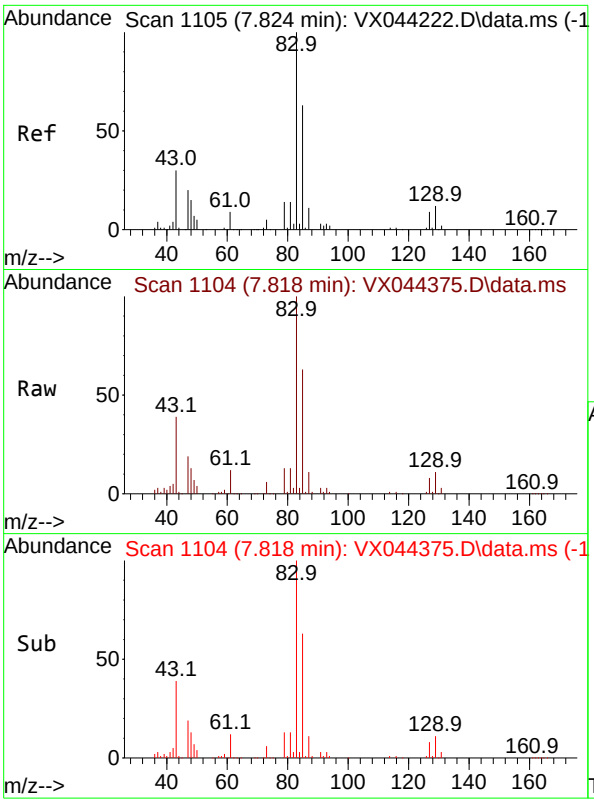


#46
Dibromomethane
Concen: 51.538 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 93 Resp: 67868

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.4	98.2
174	93.0	67.9	101.9



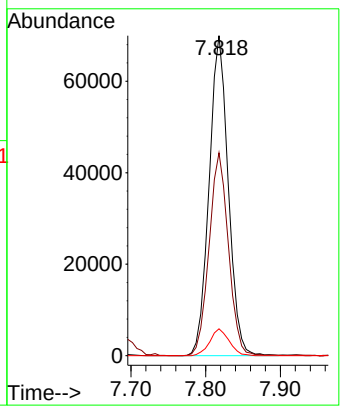


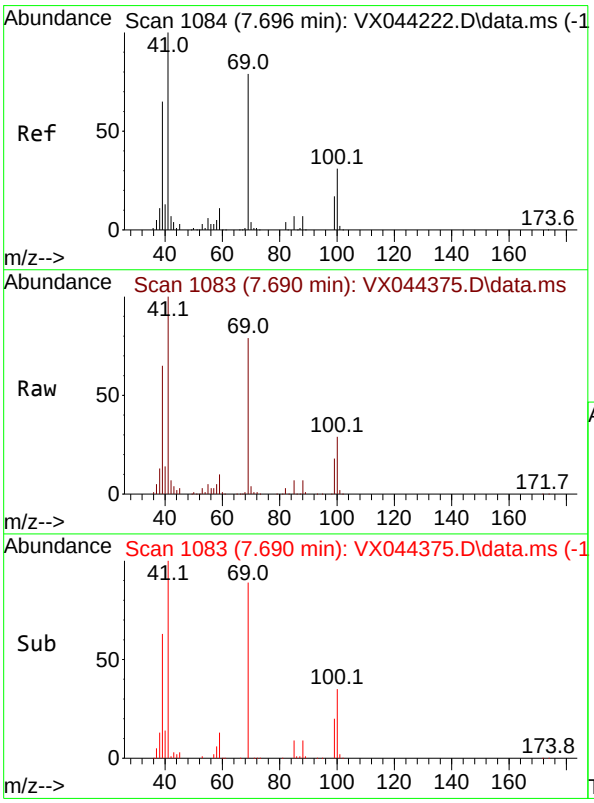
#47
Bromodichloromethane
Concen: 54.647 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 124282

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.6	75.8
127	8.4	7.3	10.9

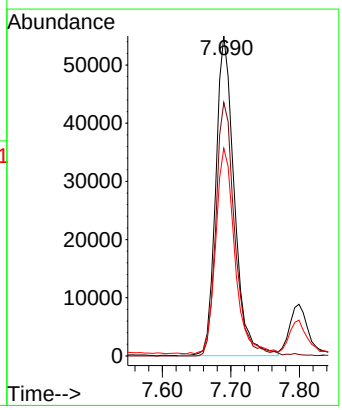


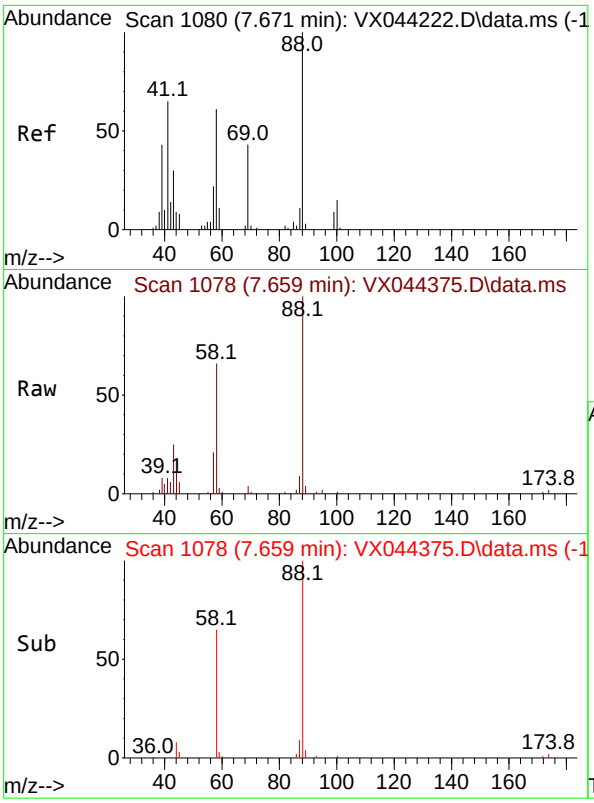


#48
Methyl methacrylate
Concen: 50.124 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 41 Resp: 102868

Ion	Ratio	Lower	Upper
41	100		
69	80.4	62.4	93.6
39	66.0	53.3	79.9



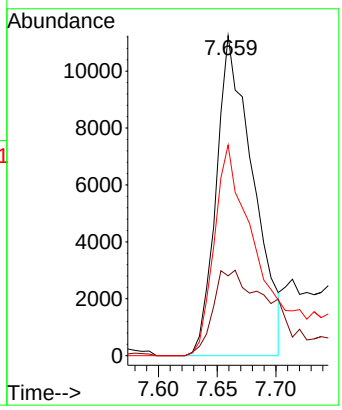


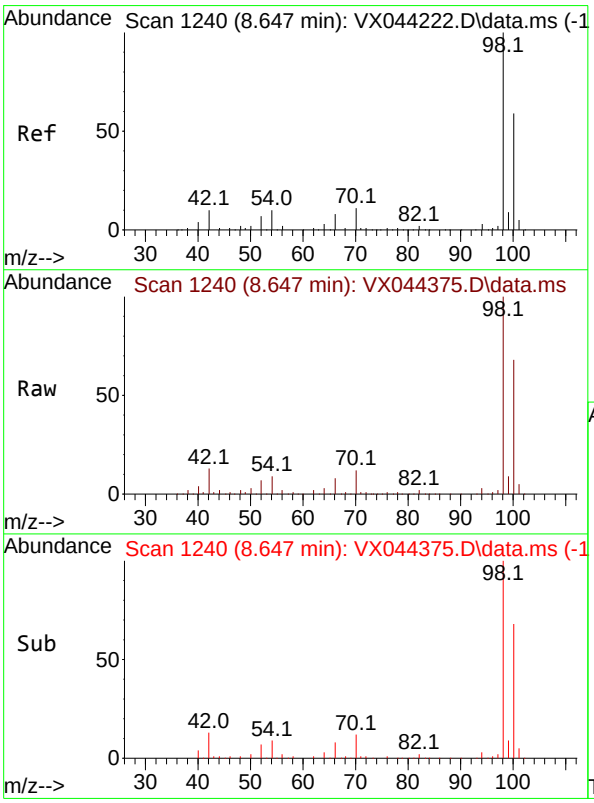
#49
1,4-Dioxane
Concen: 724.793 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 24662

Ion	Ratio	Lower	Upper
88	100		
43	42.4	27.1	40.7#
58	77.6	41.0	61.4#

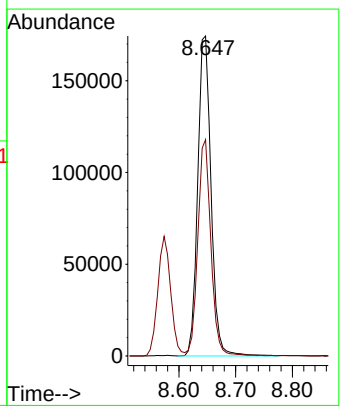


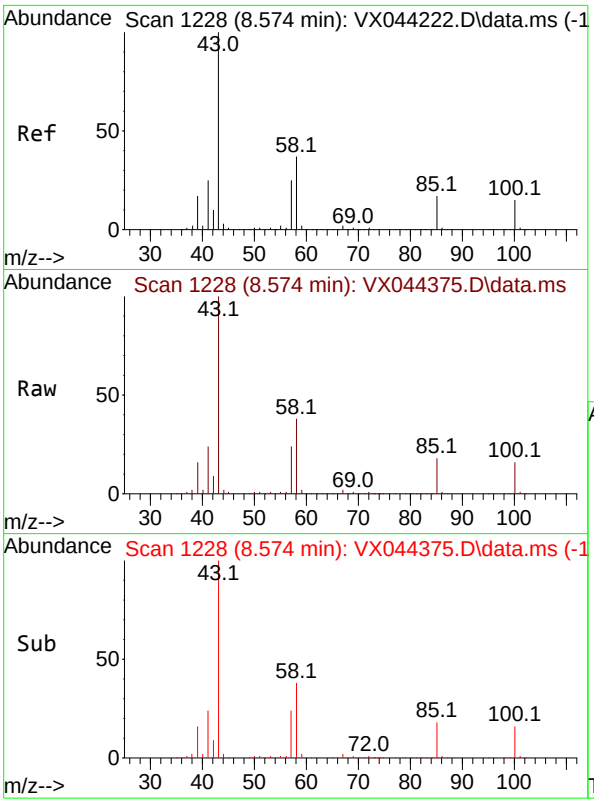


#50
Toluene-d8
Concen: 49.811 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 98 Resp: 284482

Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.5	77.3



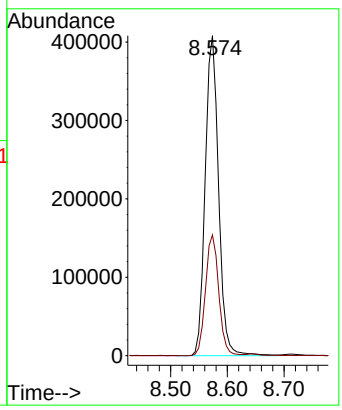


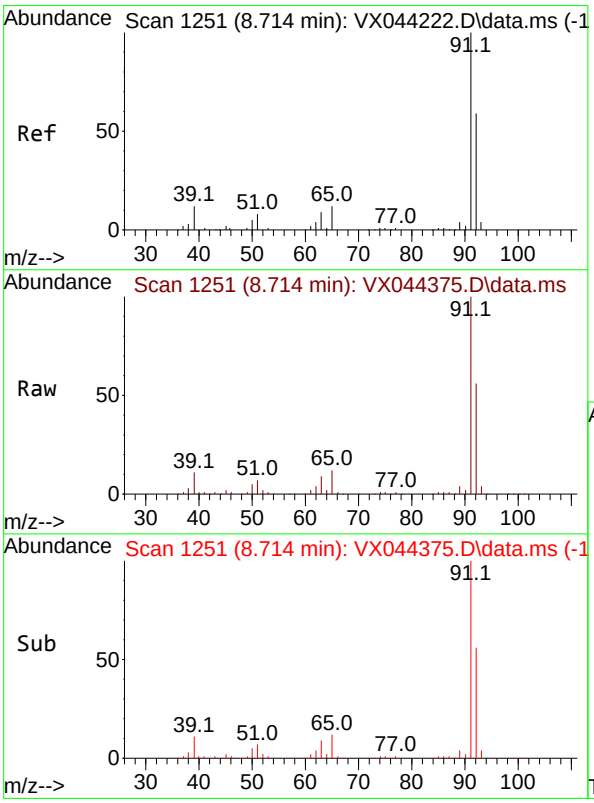
#51
4-Methyl-2-Pentanone
Concen: 245.442 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 667207

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0

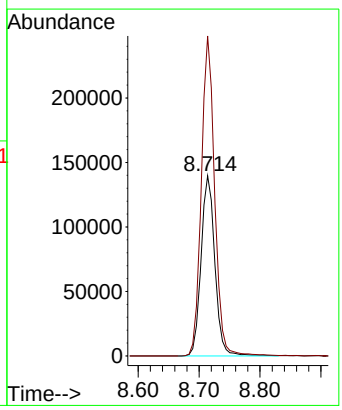


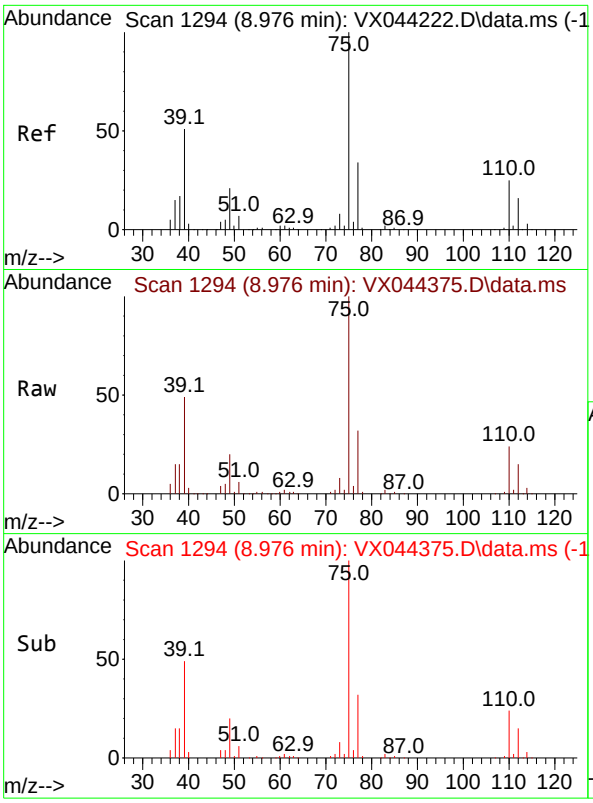


#52
Toluene
Concen: 52.735 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 92 Resp: 220021

Ion	Ratio	Lower	Upper
92	100		
91	172.0	137.0	205.6



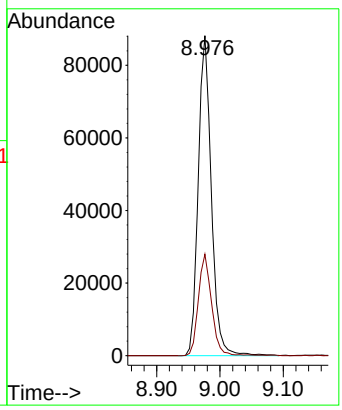


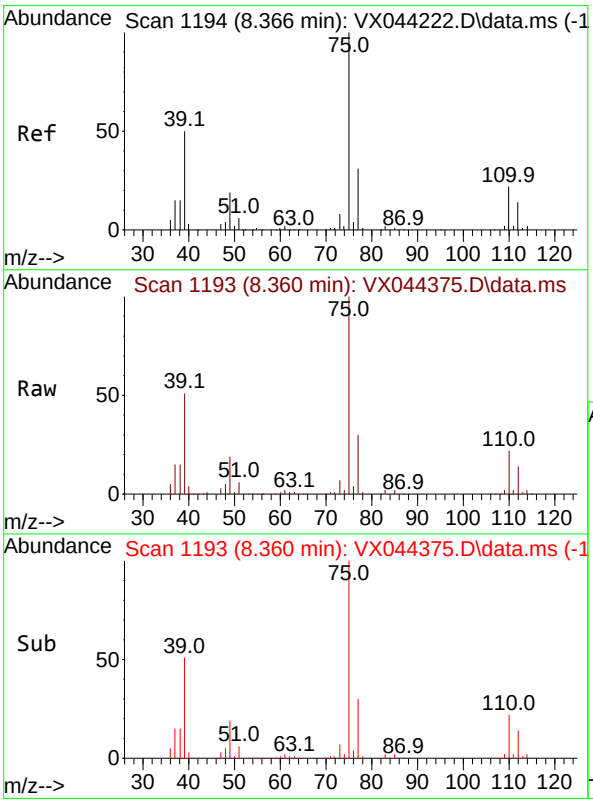
#53
t-1,3-Dichloropropene
Concen: 52.027 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 127372

Ion	Ratio	Lower	Upper
75	100		
77	31.7	27.2	40.8

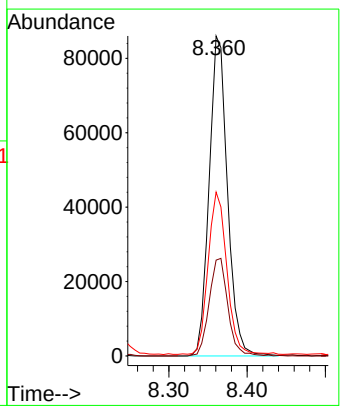


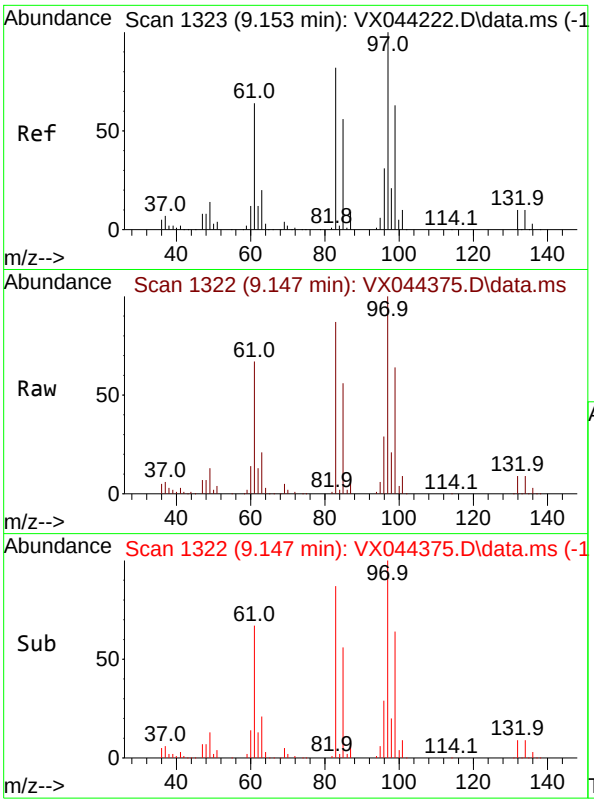


#54
cis-1,3-Dichloropropene
Concen: 56.385 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 139627

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.7	37.1
39	50.7	40.3	60.5



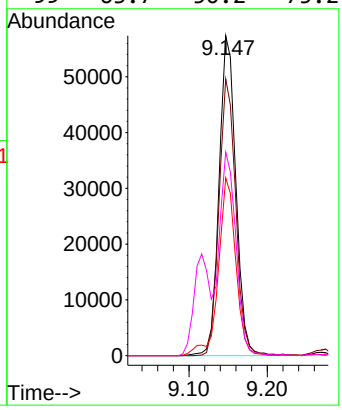


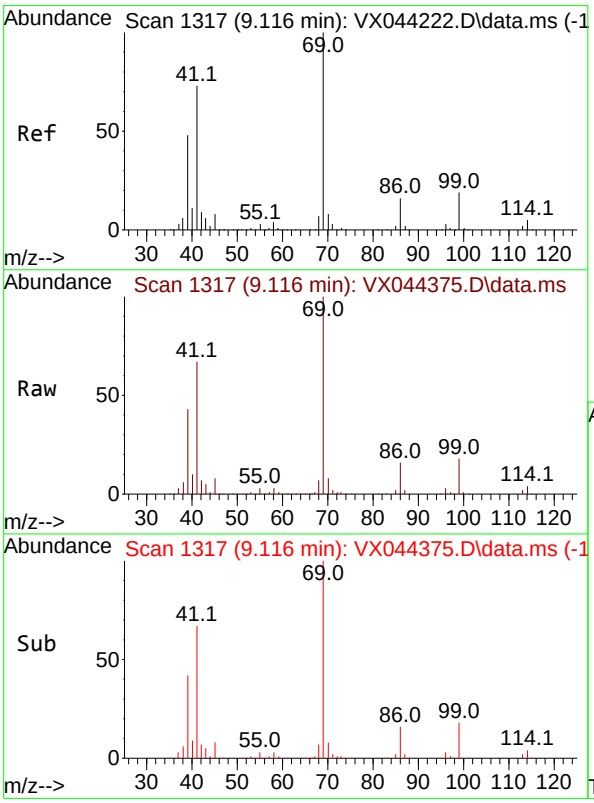
#55
1,1,2-Trichloroethane
Concen: 51.812 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 85878

Ion	Ratio	Lower	Upper
97	100		
83	86.5	65.3	97.9
85	55.5	44.6	67.0
99	63.7	50.2	75.2

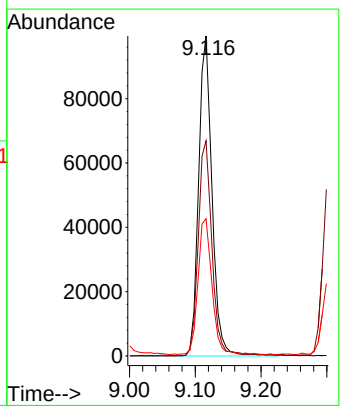


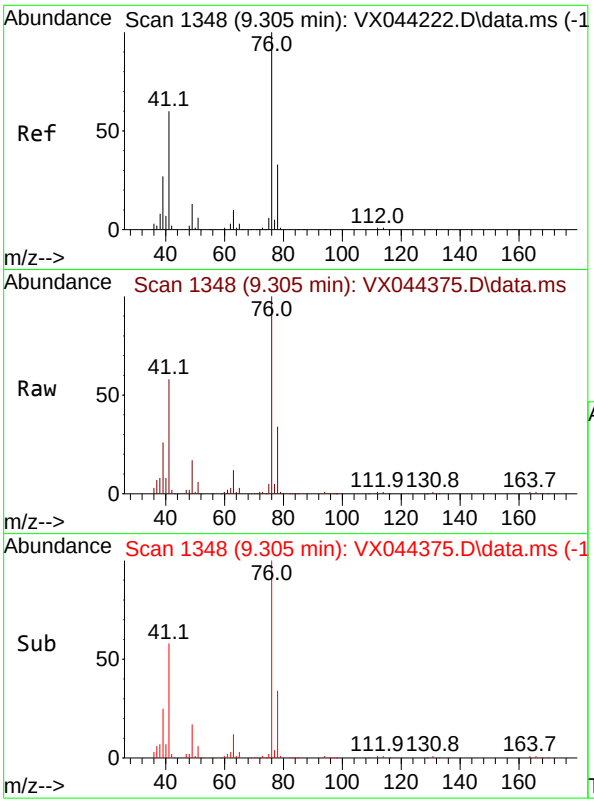


#56
Ethyl methacrylate
Concen: 53.914 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 69 Resp: 141073

Ion	Ratio	Lower	Upper
69	100		
41	68.4	56.6	85.0
39	44.6	37.4	56.0



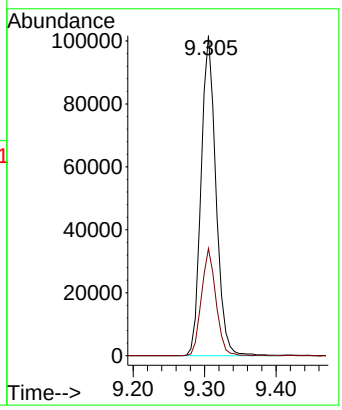


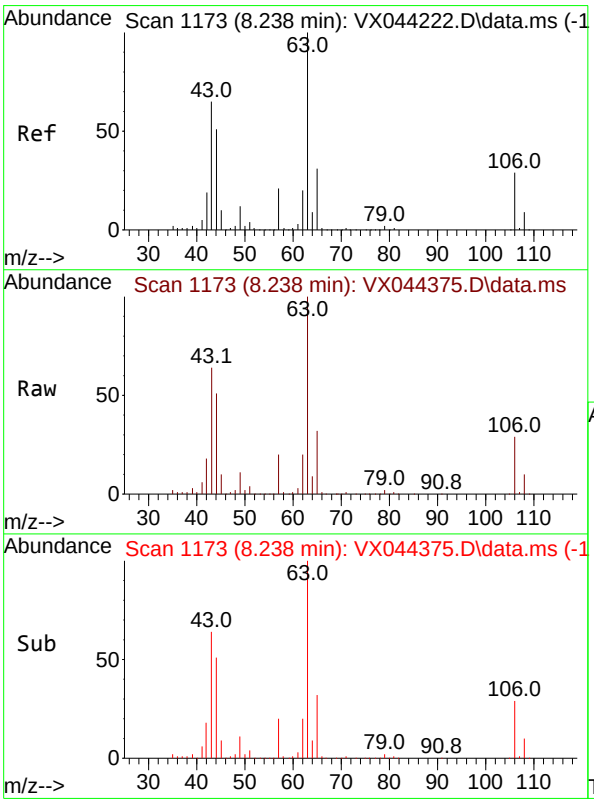
#57
1,3-Dichloropropane
Concen: 50.832 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 146651

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.5	39.7

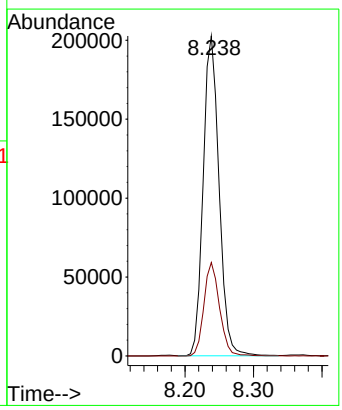


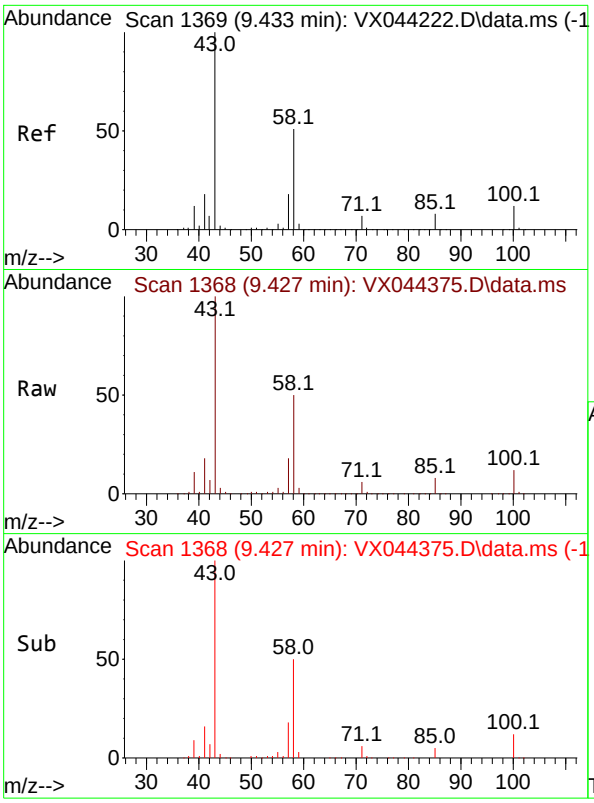


#58
2-Chloroethyl Vinyl ether
Concen: 247.508 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 63 Resp: 326652

Ion	Ratio	Lower	Upper
63	100		
106	28.8	22.8	34.2



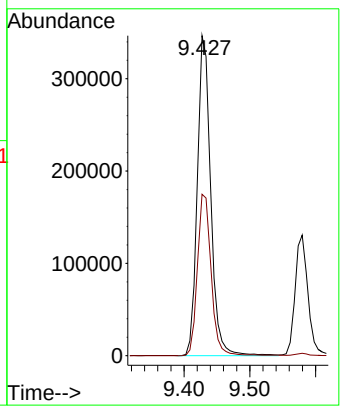


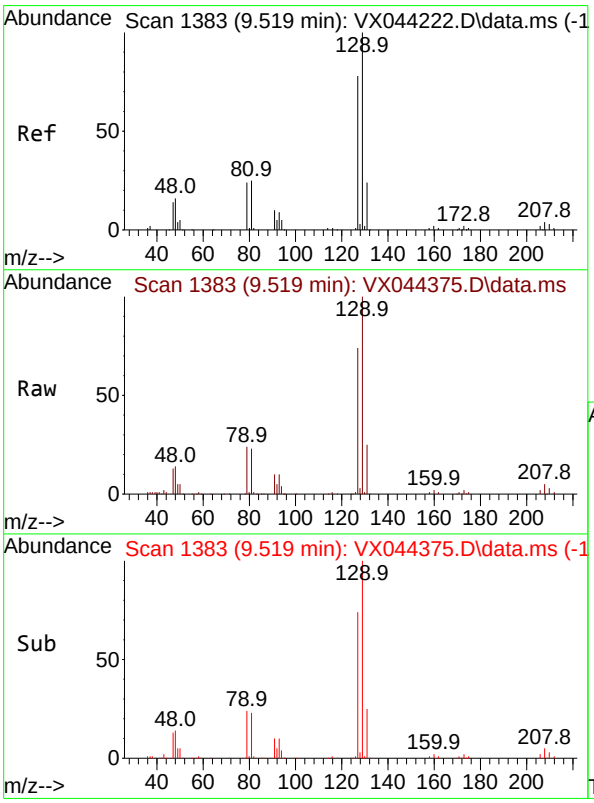
#59
2-Hexanone
Concen: 249.789 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 491495

Ion	Ratio	Lower	Upper
43	100		
58	51.8	25.7	77.0

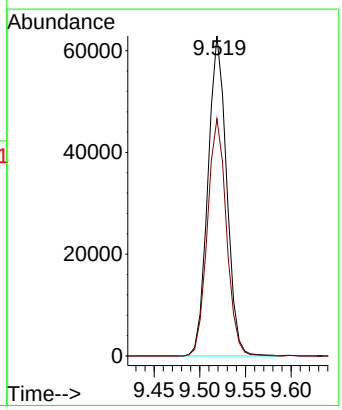


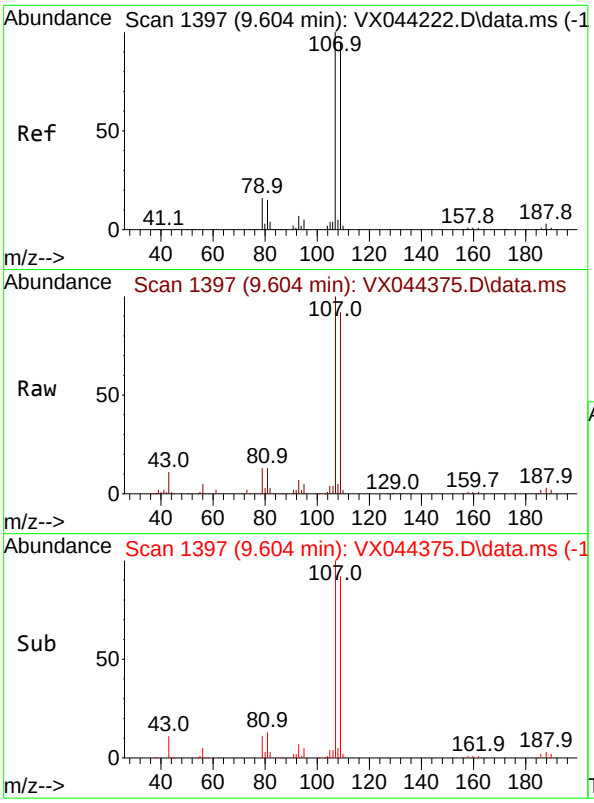


#60
Dibromochloromethane
Concen: 50.794 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:129 Resp: 89257

Ion	Ratio	Lower	Upper
129	100		
127	75.4	38.5	115.3



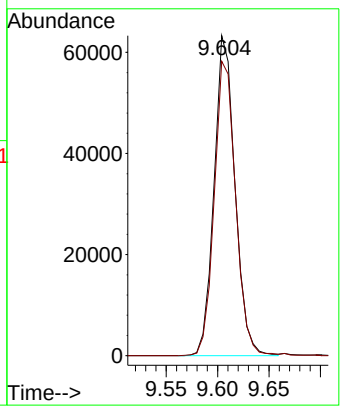


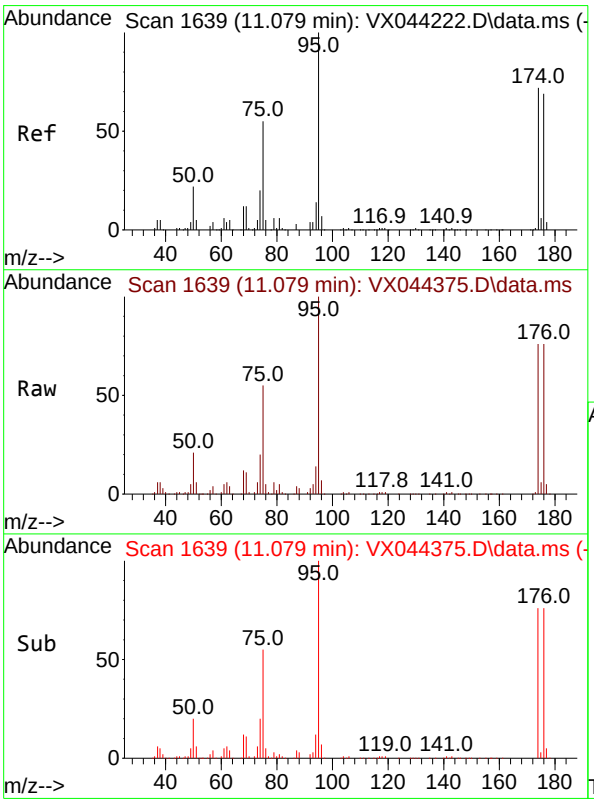
#61
1,2-Dibromoethane
Concen: 52.923 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 89289

Ion	Ratio	Lower	Upper
107	100		
109	94.4	77.0	115.4

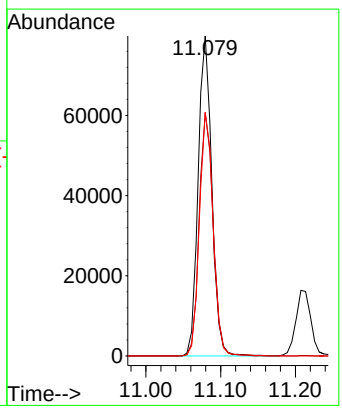


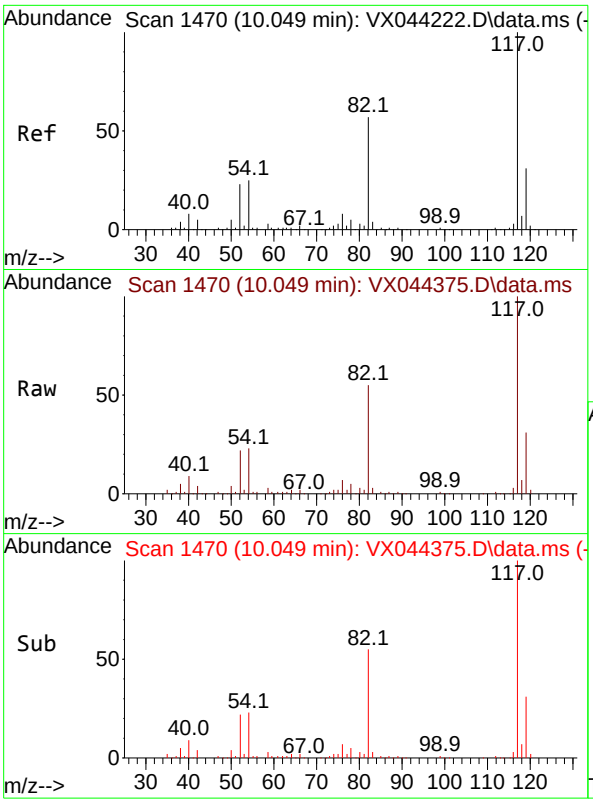


#62
4-Bromofluorobenzene
Concen: 50.645 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 95 Resp: 101069

Ion	Ratio	Lower	Upper
95	100		
174	77.6	0.0	145.8
176	76.3	0.0	137.8



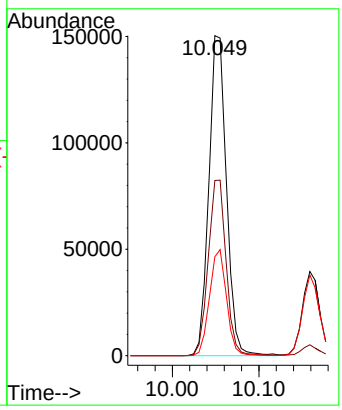


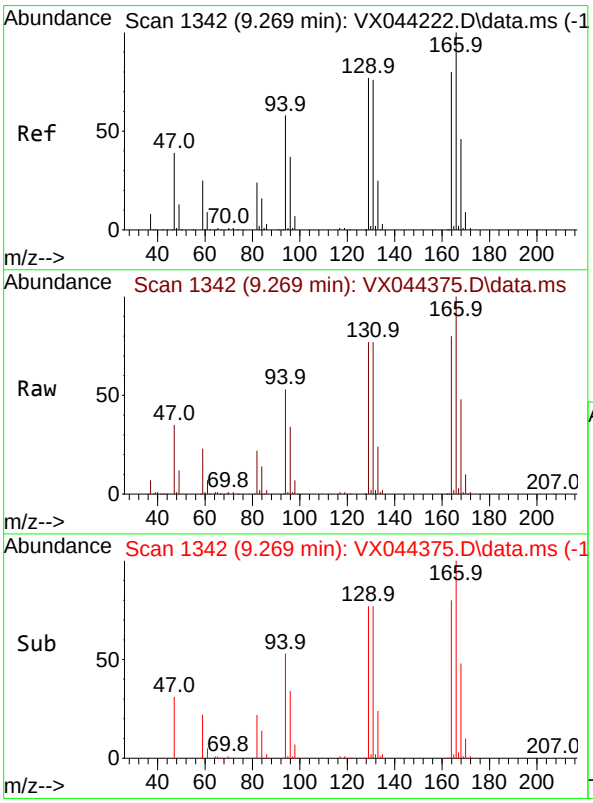
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 212426

Ion	Ratio	Lower	Upper
117	100		
82	54.8	45.8	68.8
119	30.9	25.0	37.4

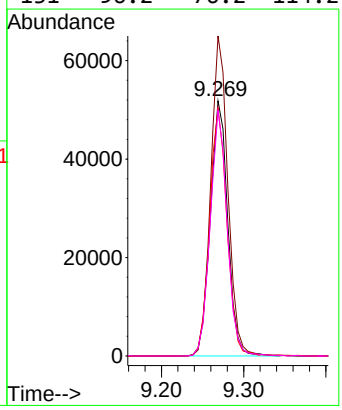


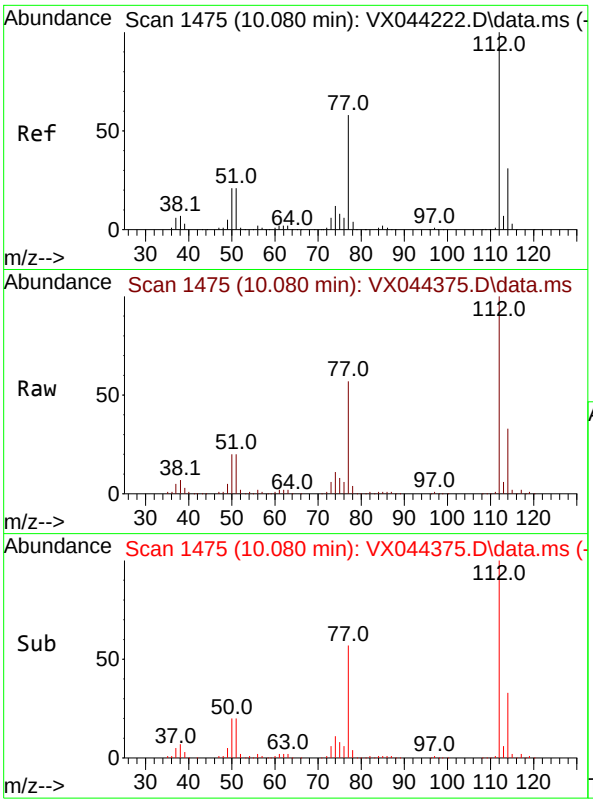


#64
Tetrachloroethene
Concen: 54.001 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:164 Resp: 76137

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	97.2	77.2	115.8
131	96.2	76.2	114.2



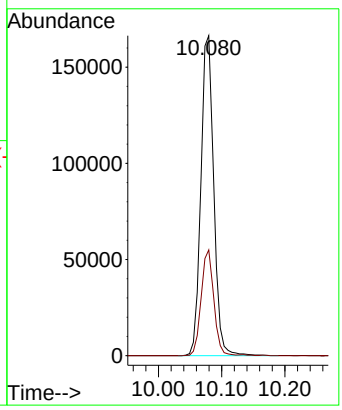


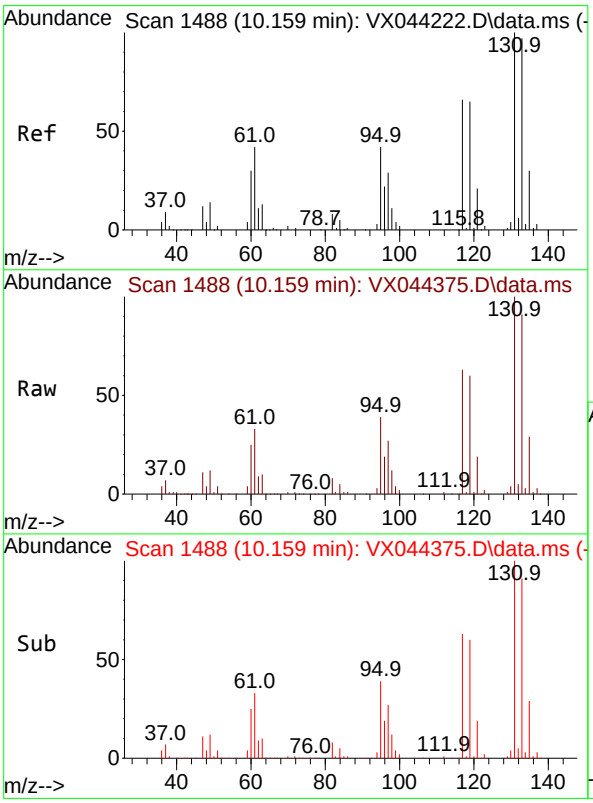
#65
Chlorobenzene
Concen: 51.858 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 236050

Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.0	37.6

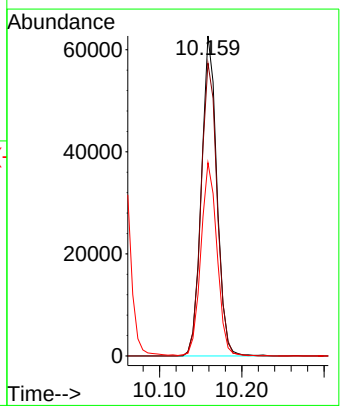


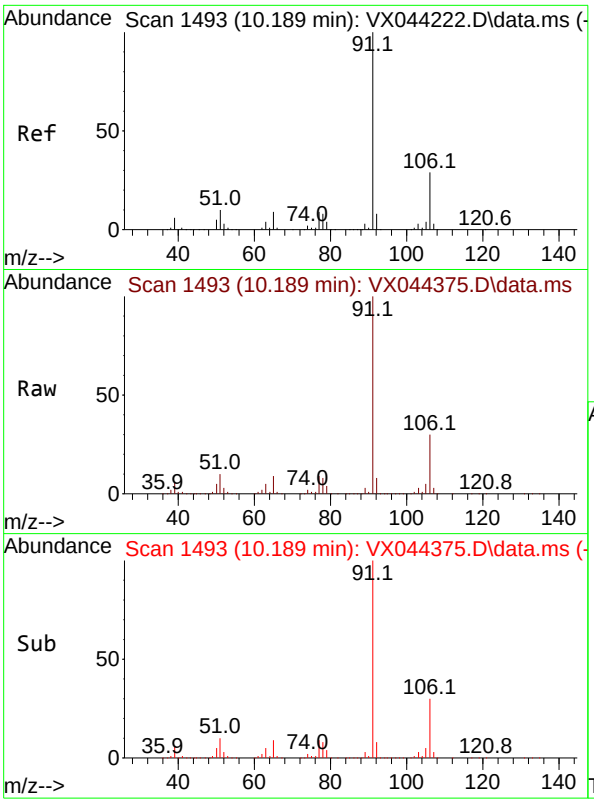


#66
1,1,1,2-Tetrachloroethane
Concen: 56.077 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:131 Resp: 82035

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.8
119	62.7	31.6	95.0



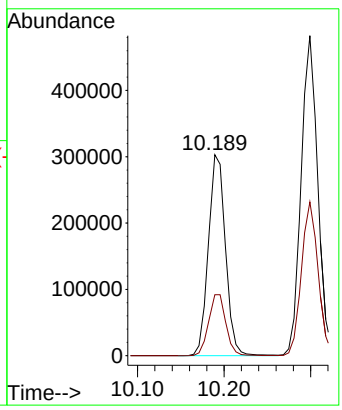


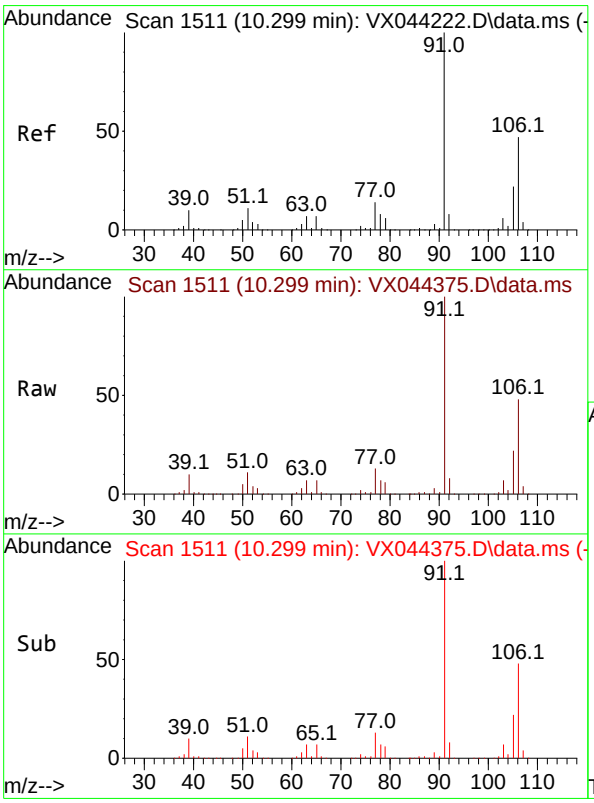
#67
Ethyl Benzene
Concen: 52.803 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 415285

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.5	35.3

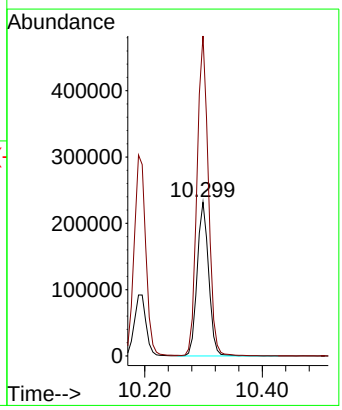


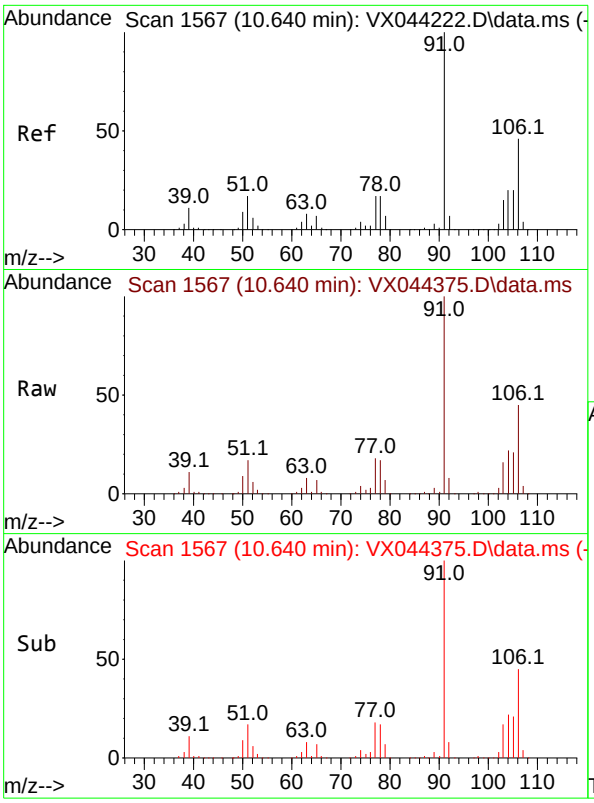


#68
m/p-Xylenes
Concen: 108.454 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:106 Resp: 312989

Ion	Ratio	Lower	Upper
106	100		
91	206.3	170.2	255.2



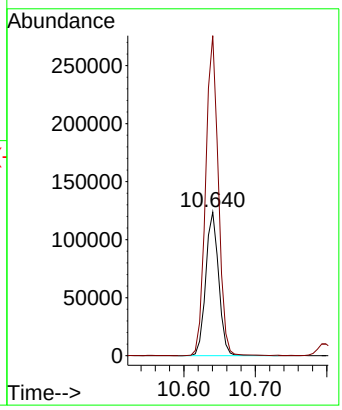


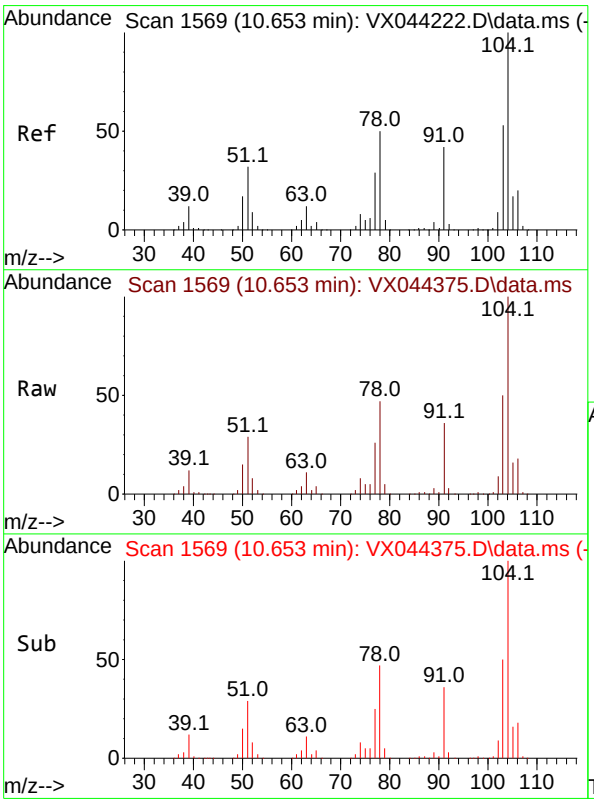
#69
o-Xylene
Concen: 53.206 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 155361

Ion	Ratio	Lower	Upper
106	100		
91	219.5	112.3	337.0

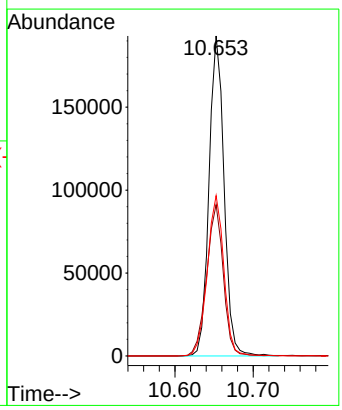


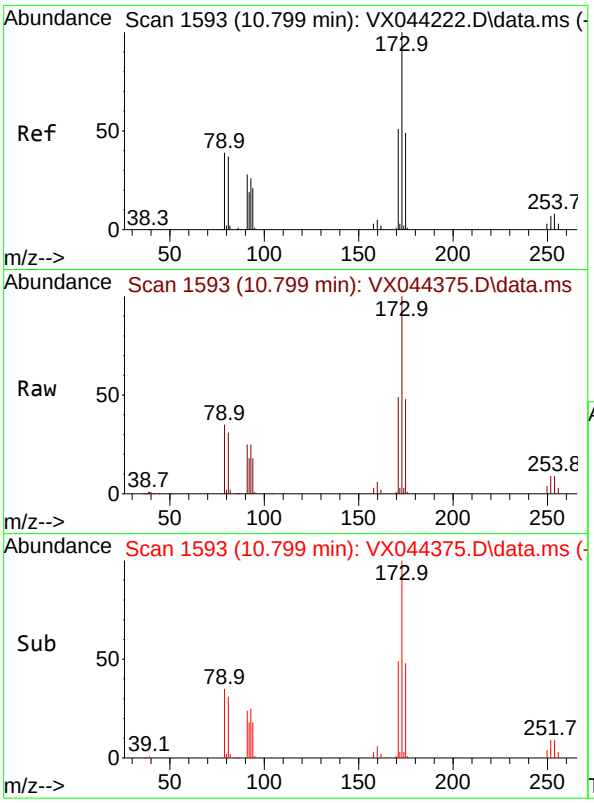


#70
Styrene
Concen: 54.912 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:104 Resp: 257040

Ion	Ratio	Lower	Upper
104	100		
78	52.7	44.6	67.0
103	55.4	45.4	68.0



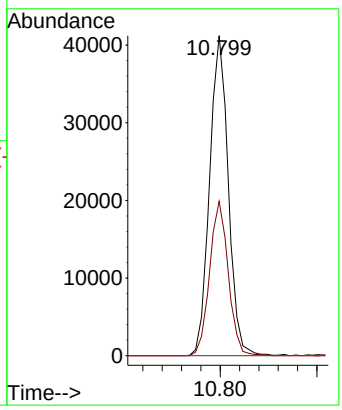


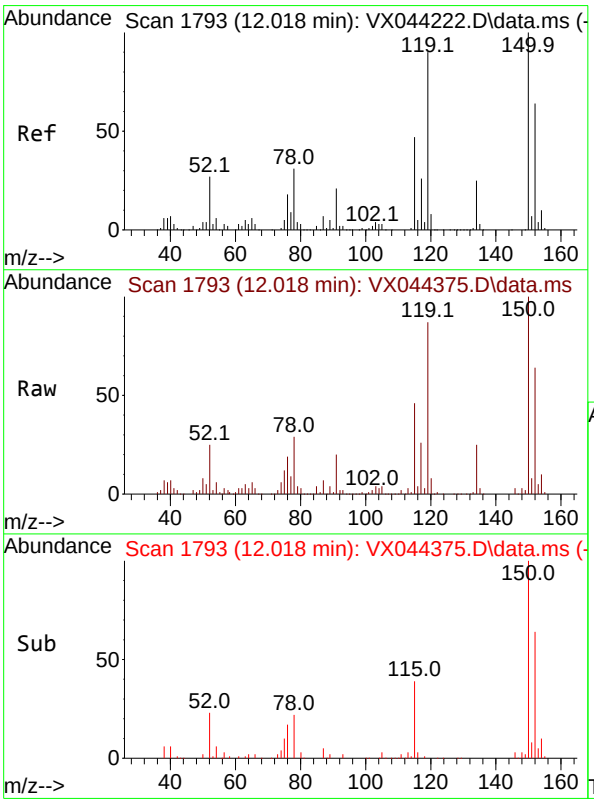
#71
Bromoform
Concen: 53.638 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 55350

Ion	Ratio	Lower	Upper
173	100		
175	48.1	23.8	71.4
254	0.0	0.0	0.0

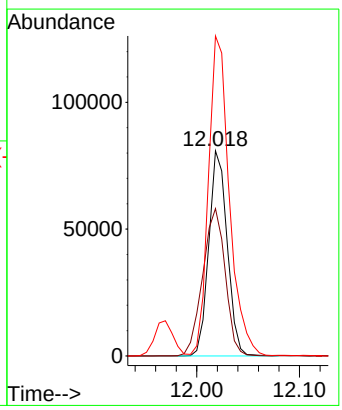


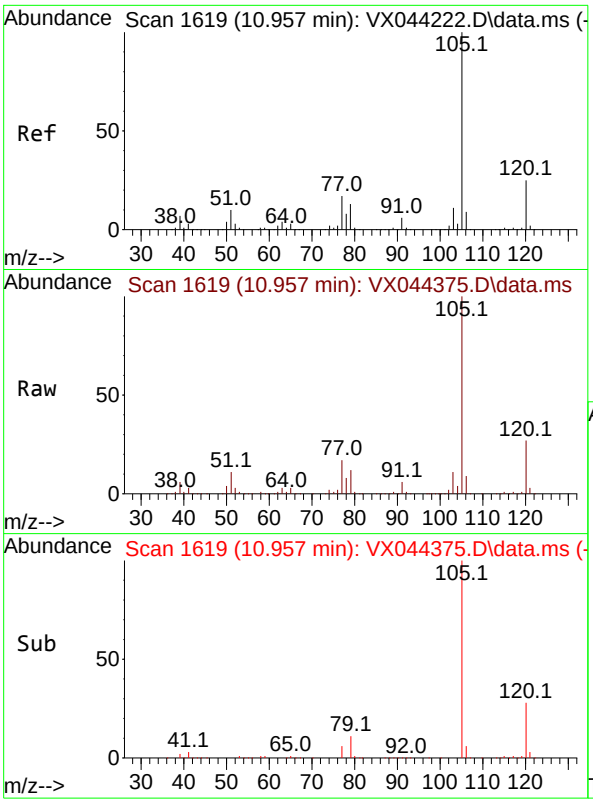


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:152 Resp: 100489

Ion	Ratio	Lower	Upper
152	100		
115	88.0	44.5	133.3
150	176.7	0.0	353.8



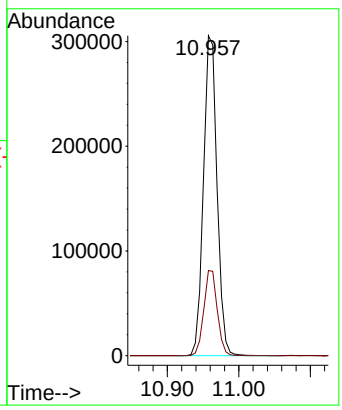


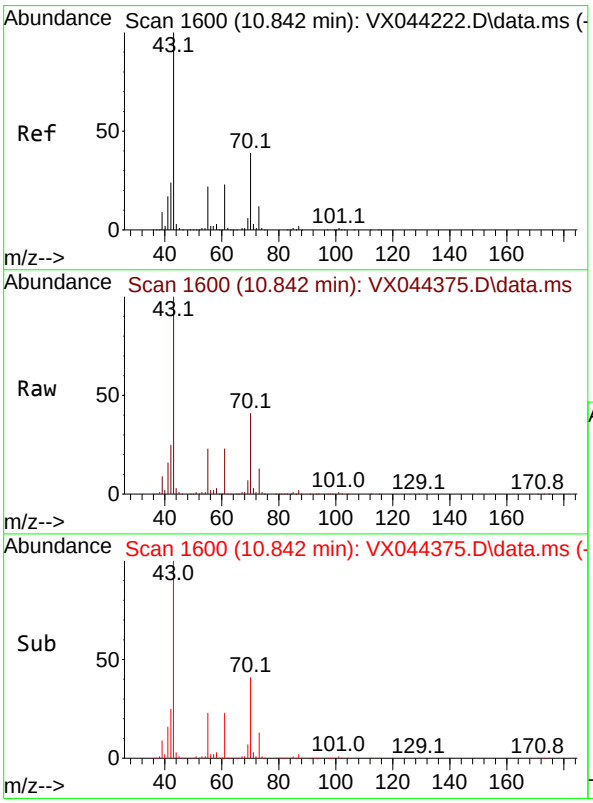
#73
Isopropylbenzene
Concen: 52.392 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 403042

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.3

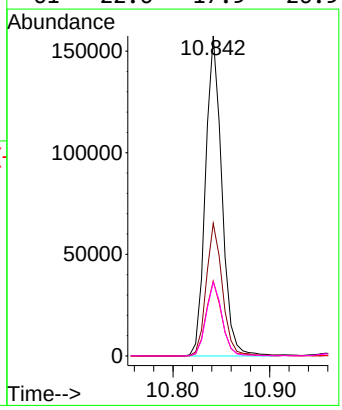


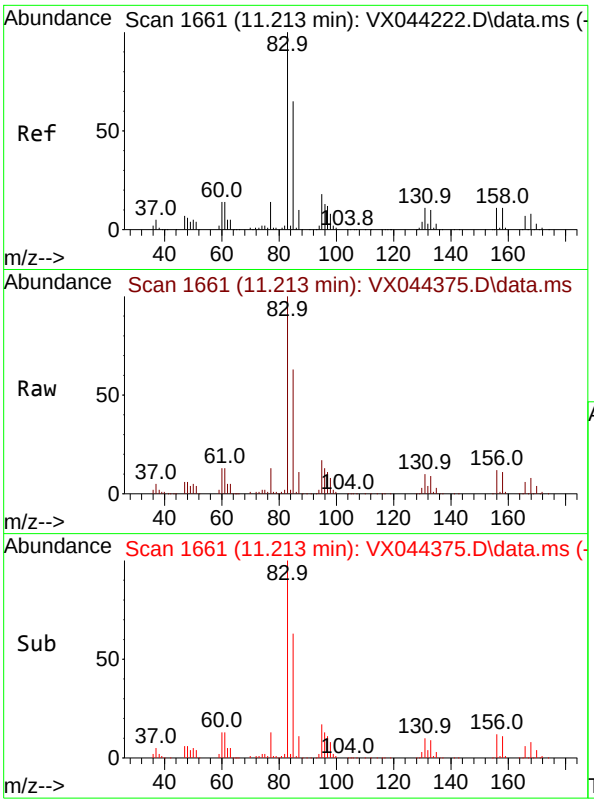


#74
N-amyl acetate
Concen: 52.376 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 43 Resp: 186211

Ion	Ratio	Lower	Upper
43	100		
70	41.1	31.9	47.9
55	23.0	17.9	26.9
61	22.6	17.9	26.9



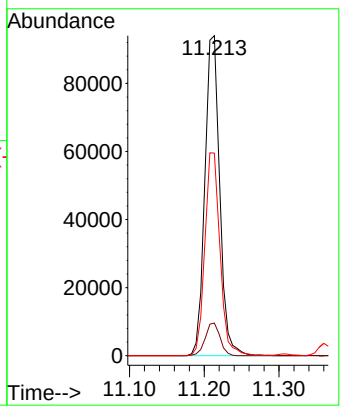


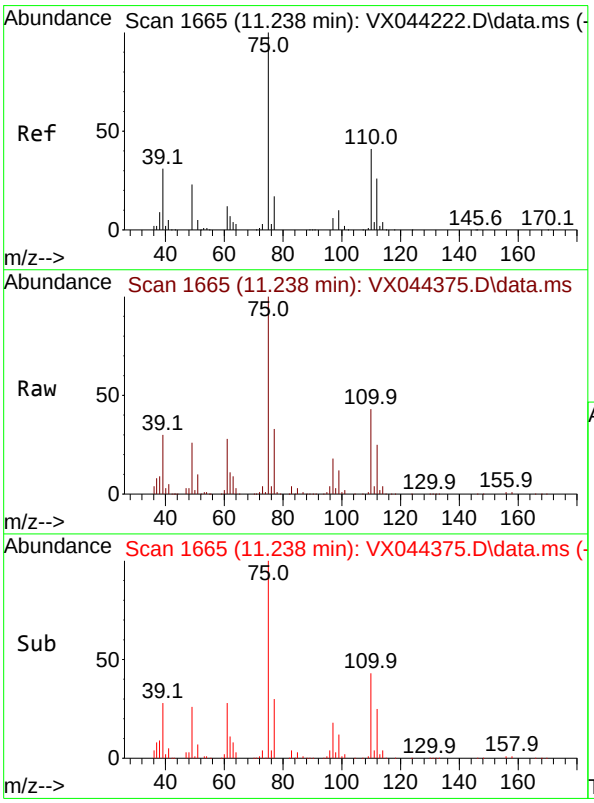
#75
1,1,2,2-Tetrachloroethane
Concen: 48.651 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 129995

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	64.6	32.5	97.4

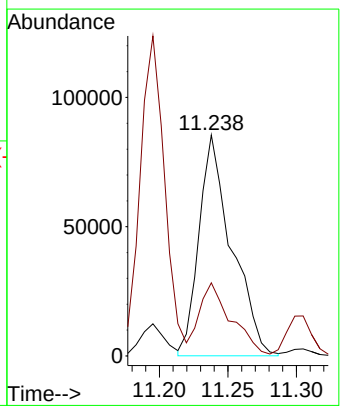


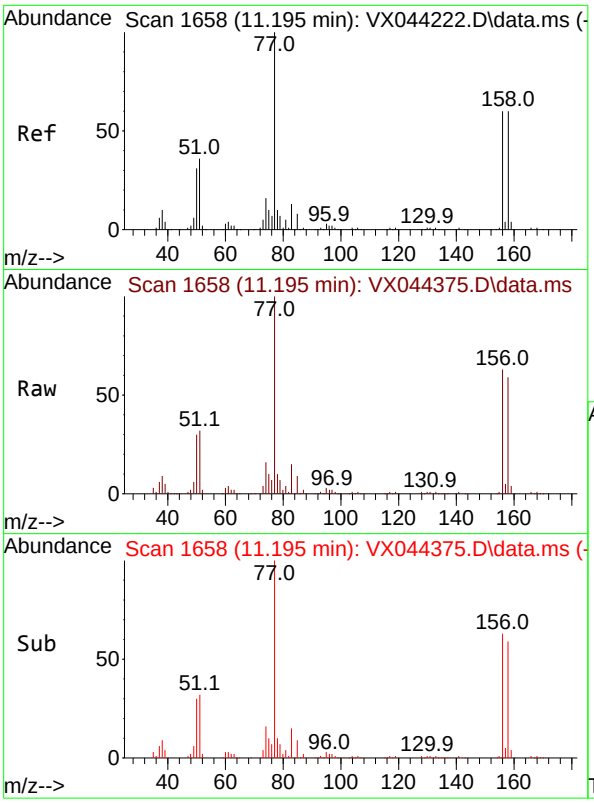


#76
1,2,3-Trichloropropane
Concen: 63.369 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 142179

Ion	Ratio	Lower	Upper
75	100		
77	32.5	20.9	62.7



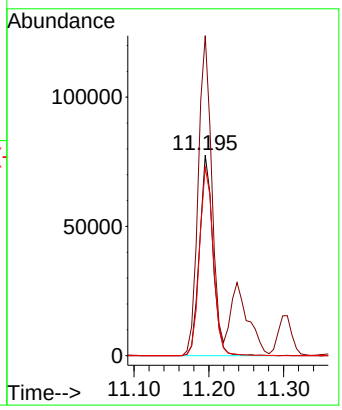


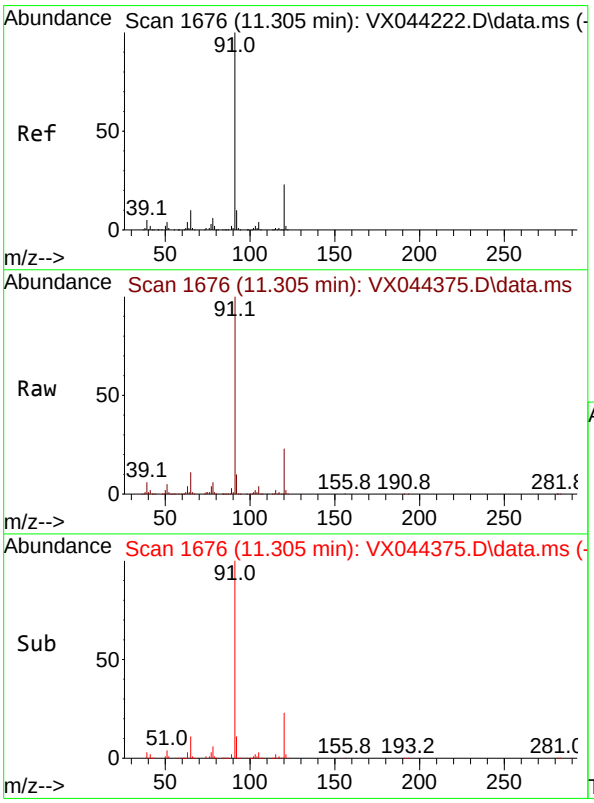
#77
Bromobenzene
Concen: 51.705 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 96454

Ion	Ratio	Lower	Upper
156	100		
77	161.1	82.6	247.8
158	97.0	48.8	146.4

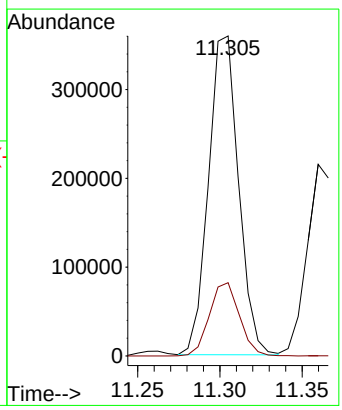


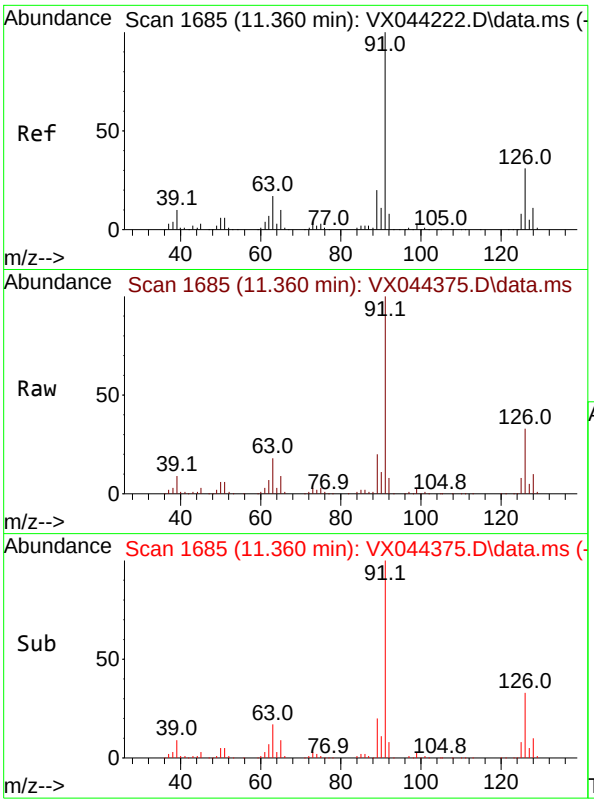


#78
n-propylbenzene
Concen: 53.816 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 91 Resp: 457577

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.0	33.0



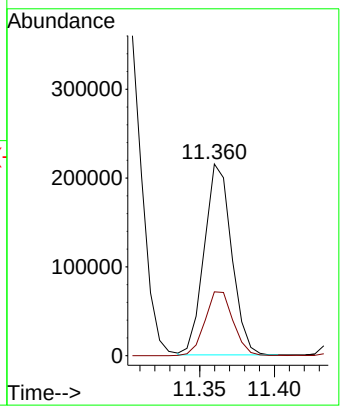


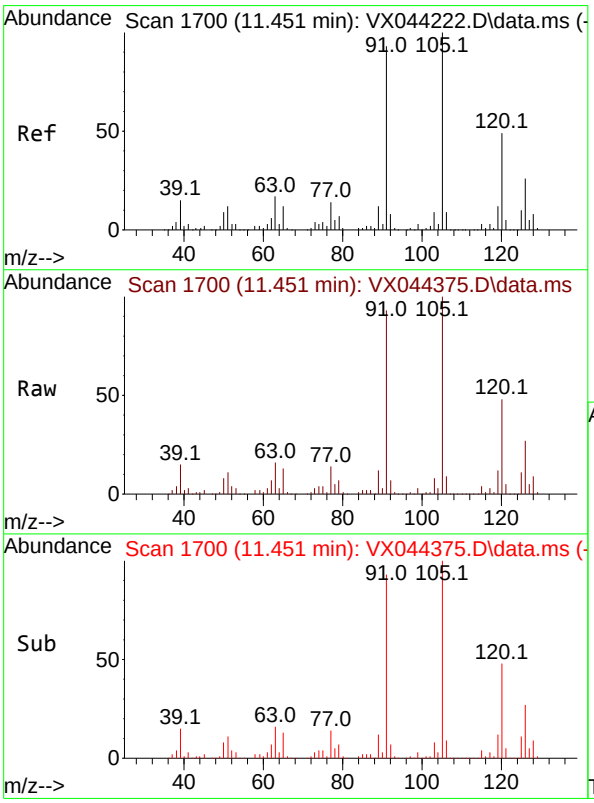
#79
2-Chlorotoluene
Concen: 49.803 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 273862

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.4	49.1

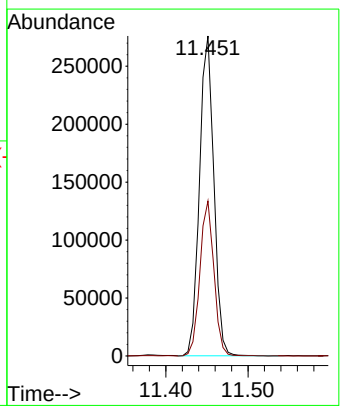


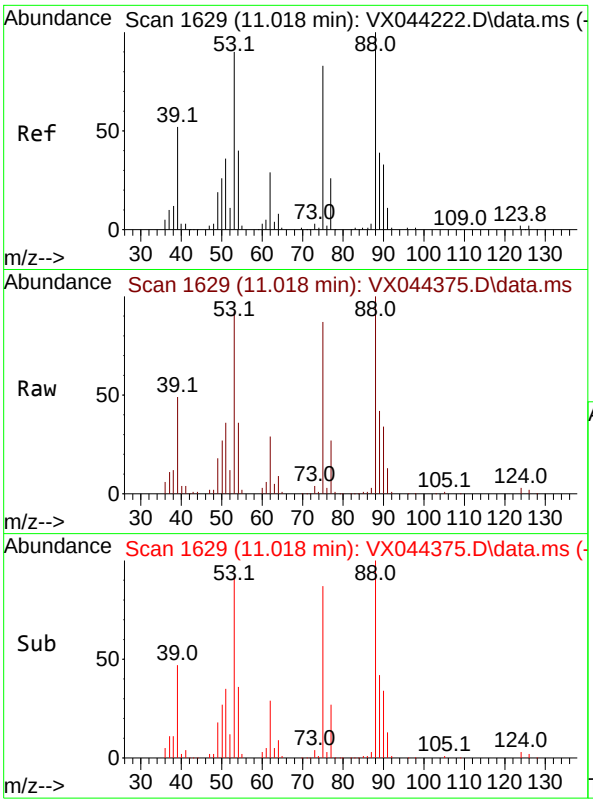


#80
1,3,5-Trimethylbenzene
Concen: 52.518 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:105 Resp: 335043

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	71.4



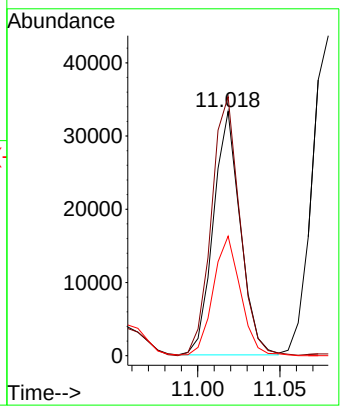


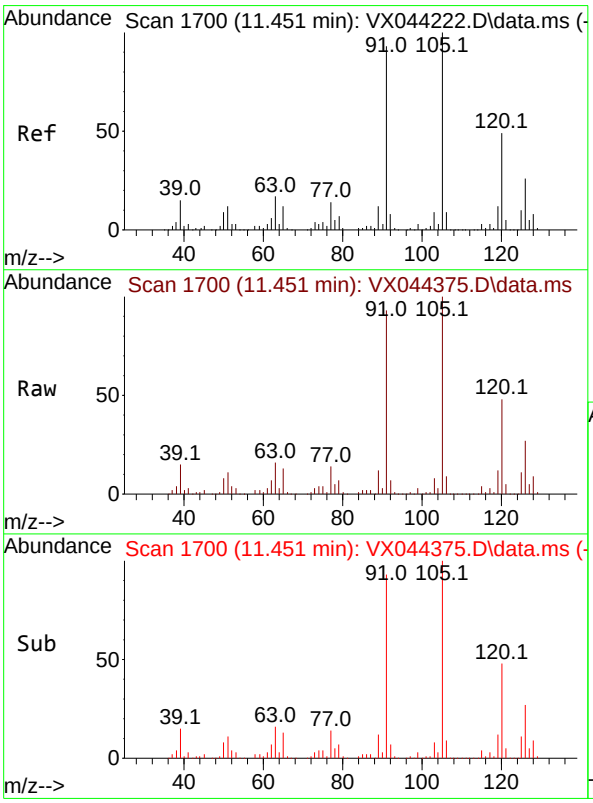
#81
trans-1,4-Dichloro-2-butene
Concen: 48.684 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 37990

Ion	Ratio	Lower	Upper
75	100		
53	112.3	93.6	140.4
89	49.9	37.3	55.9

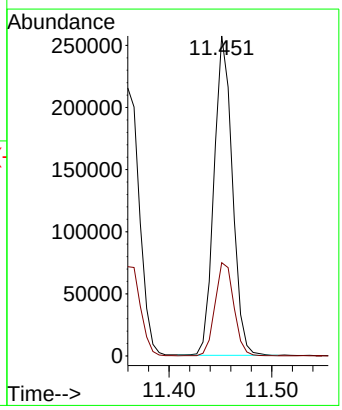


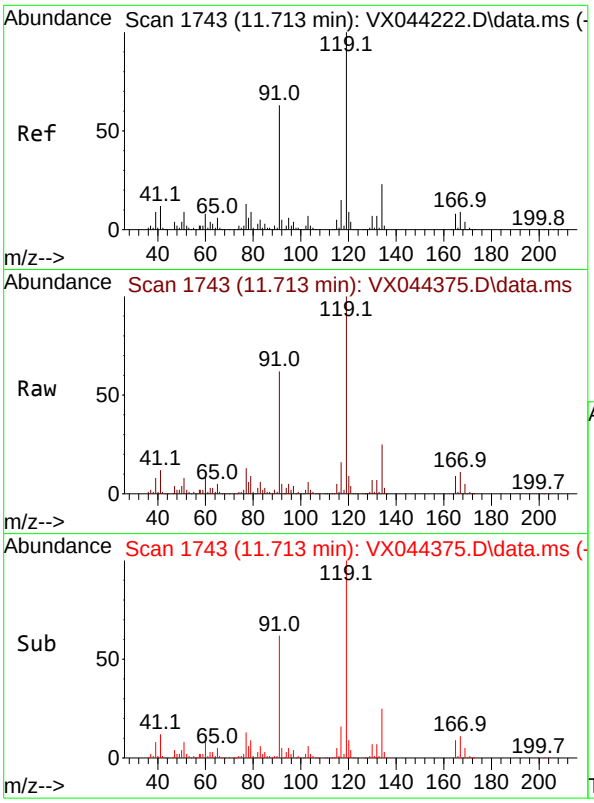


#82
4-Chlorotoluene
Concen: 52.192 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 91 Resp: 317807

Ion	Ratio	Lower	Upper
91	100		
126	29.9	14.5	43.5



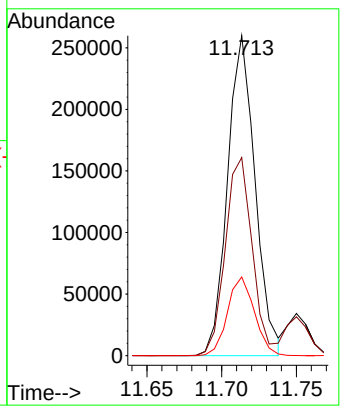


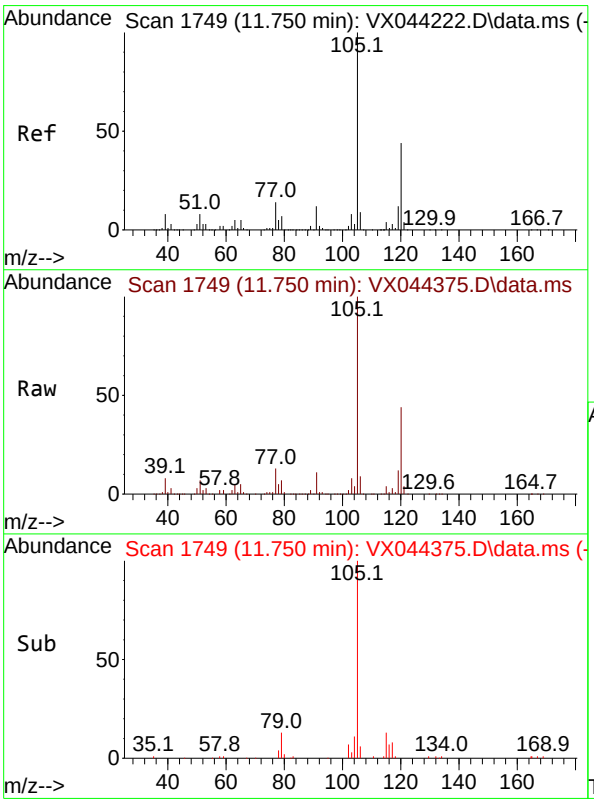
#83
tert-Butylbenzene
Concen: 52.885 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 333427

Ion	Ratio	Lower	Upper
119	100		
91	60.0	30.9	92.5
134	24.0	11.5	34.4

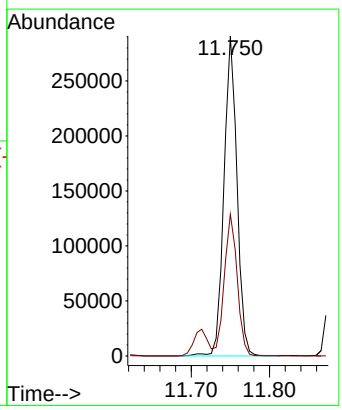


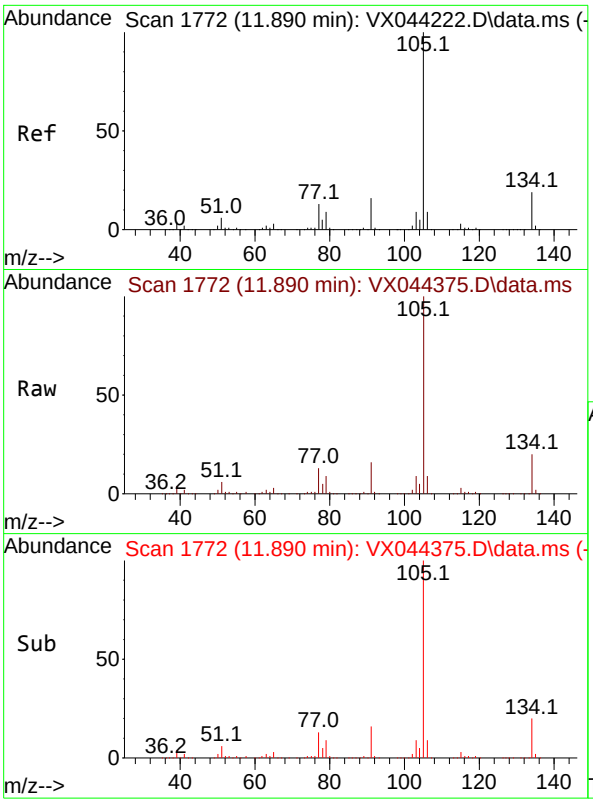


#84
1,2,4-Trimethylbenzene
Concen: 53.815 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:105 Resp: 337162

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.7	65.1



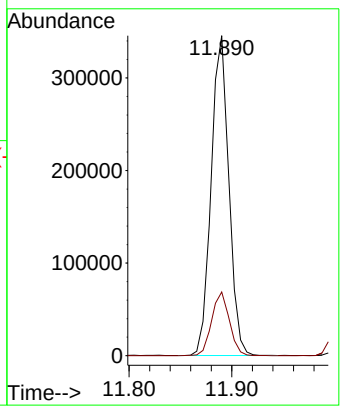


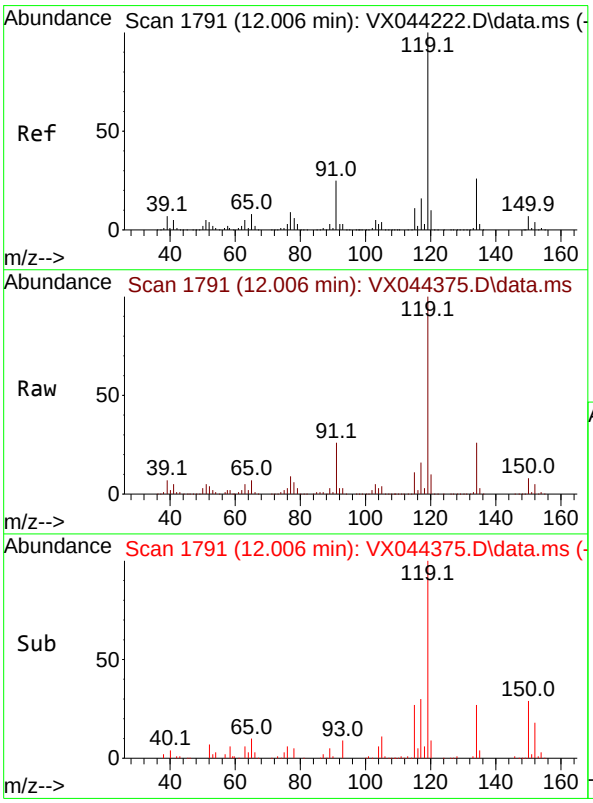
#85
sec-Butylbenzene
Concen: 53.991 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 413244

Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.8	29.4

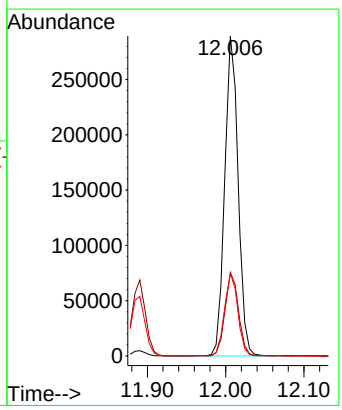


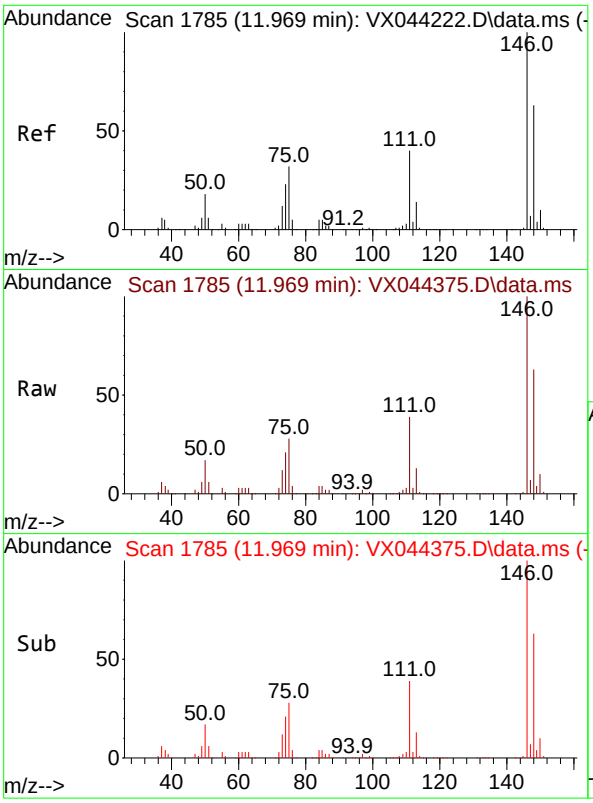


#86
p-Isopropyltoluene
Concen: 54.238 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:119 Resp: 345517

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.8	38.4
91	25.5	13.0	39.0



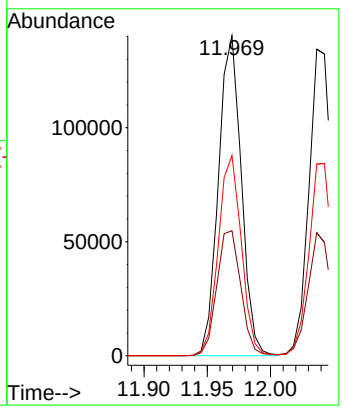


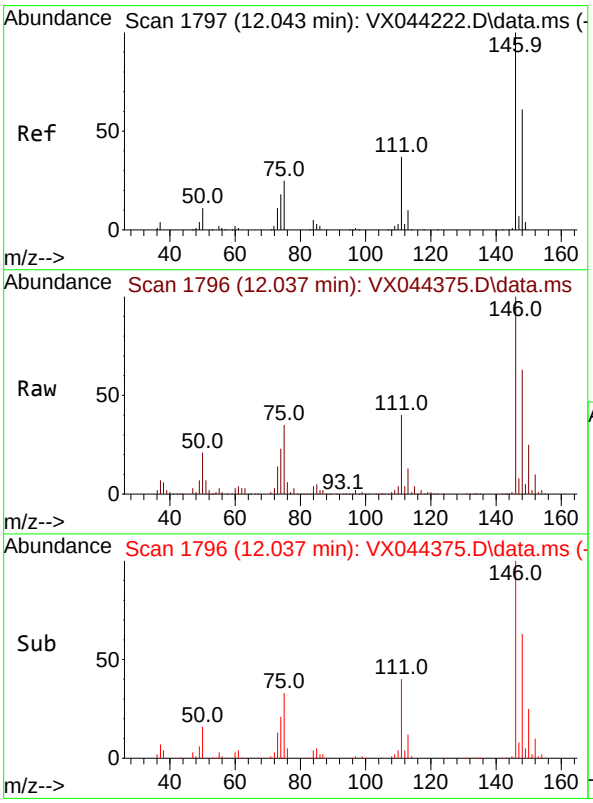
#87
1,3-Dichlorobenzene
Concen: 54.193 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 176589

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.4	64.2
148	63.1	31.7	95.1

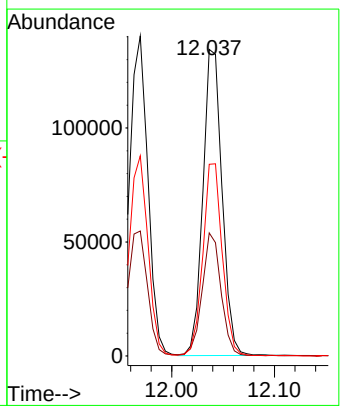


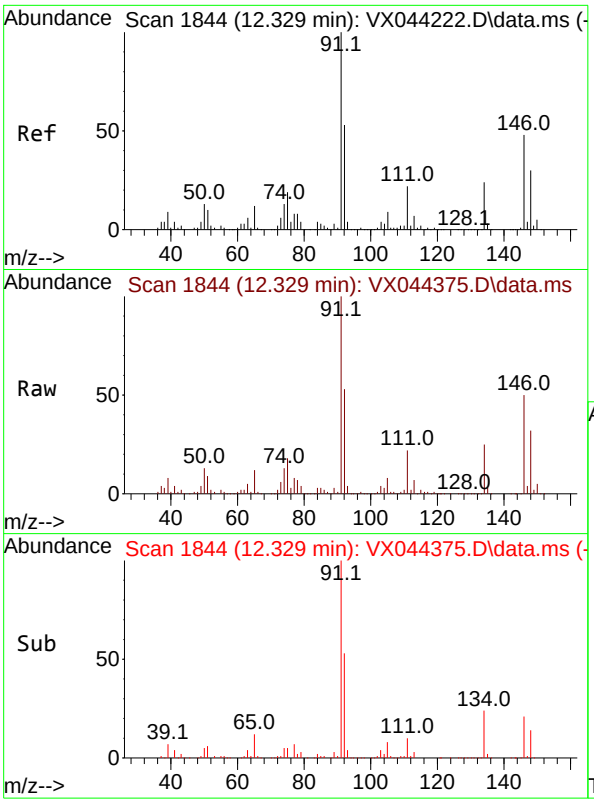


#88
1,4-Dichlorobenzene
Concen: 52.033 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:146 Resp: 174295

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.0	63.0
148	63.6	32.3	96.8



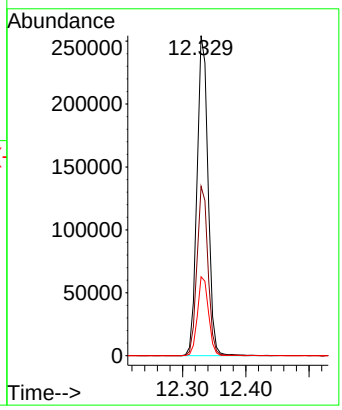


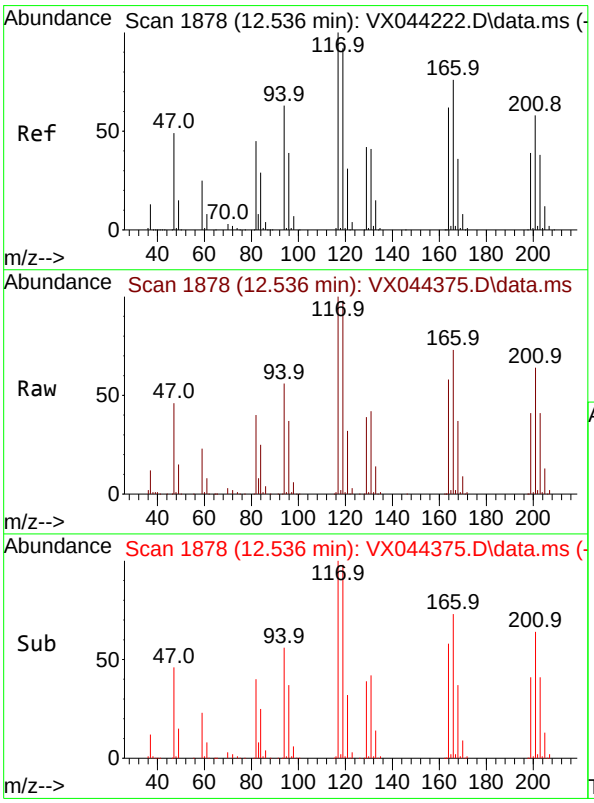
#89
n-Butylbenzene
Concen: 57.821 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 309732

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.6	79.7
134	24.7	12.6	37.8

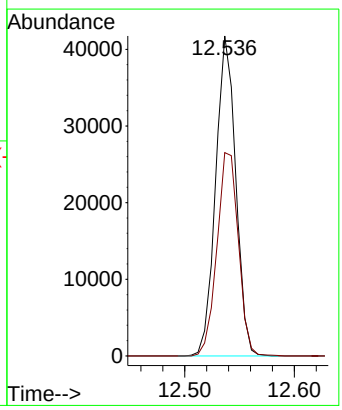


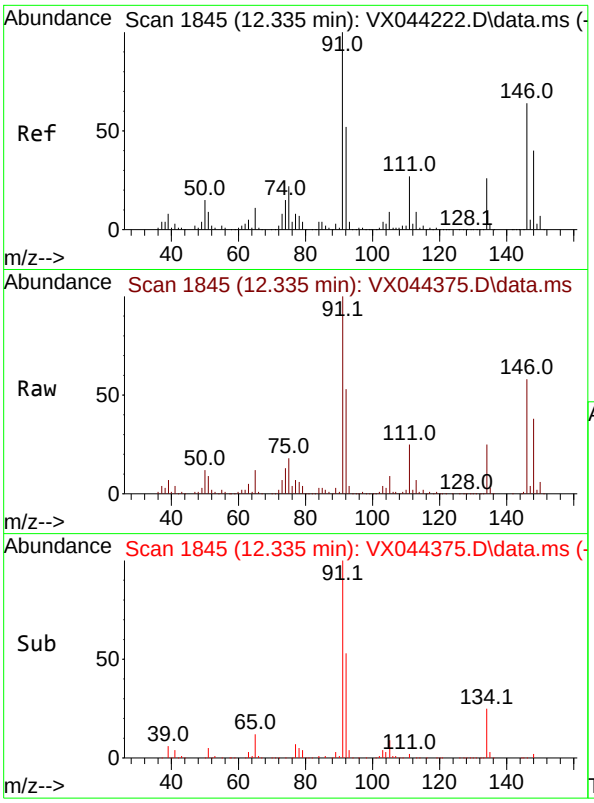


#90
Hexachloroethane
Concen: 57.234 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:117 Resp: 53223

Ion	Ratio	Lower	Upper
117	100		
201	67.9	31.4	94.2



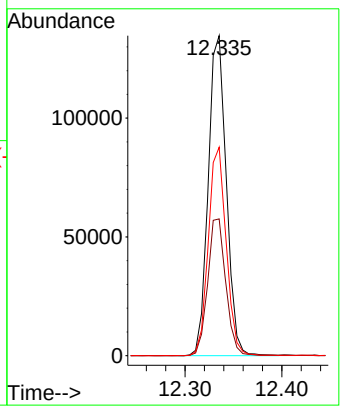


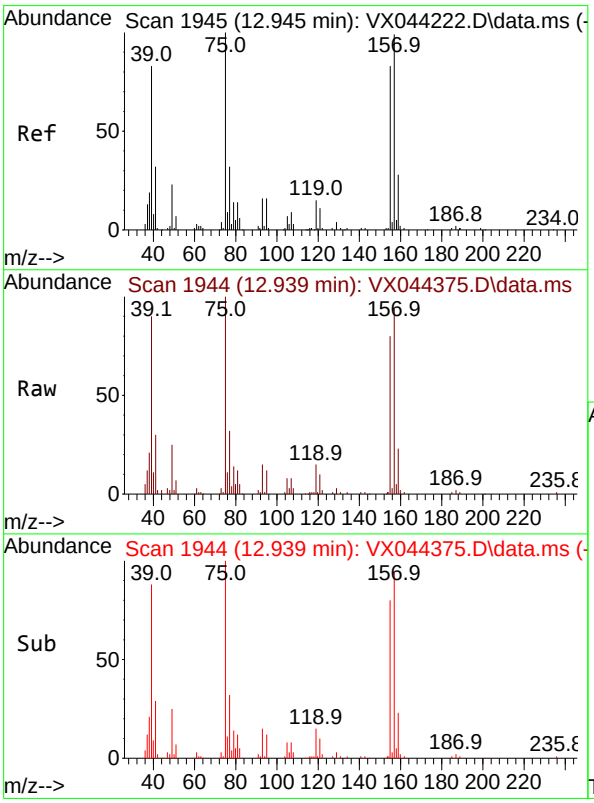
#91
1,2-Dichlorobenzene
Concen: 51.794 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 175242

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.4	64.3
148	64.6	31.6	95.0

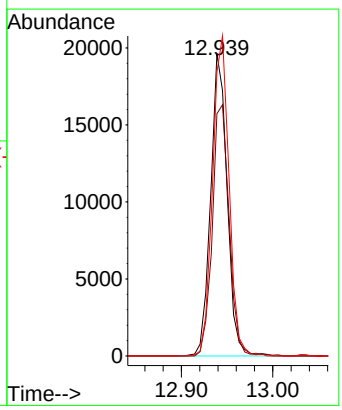


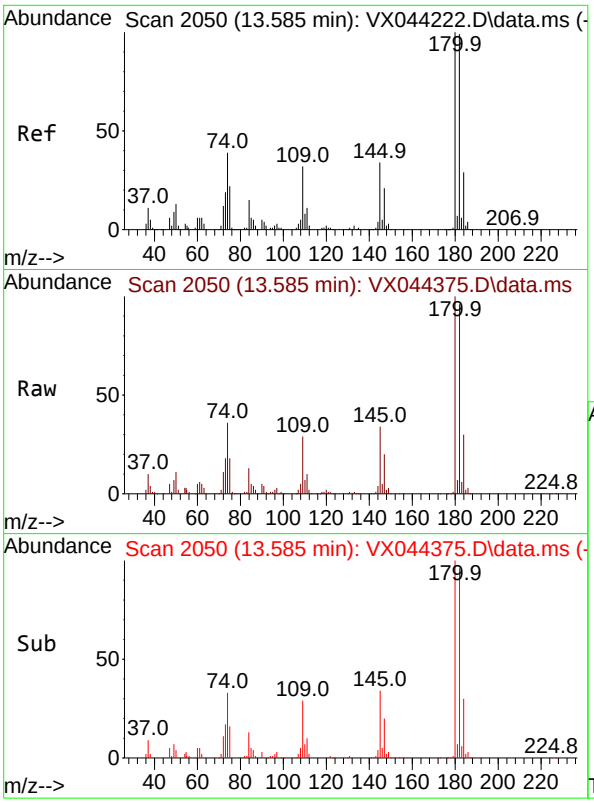


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.259 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion: 75 Resp: 24513

Ion	Ratio	Lower	Upper
75	100		
155	85.1	38.1	114.3
157	106.0	47.2	141.6



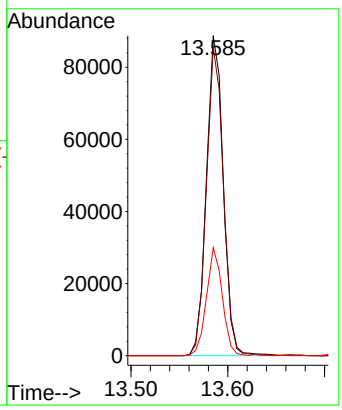


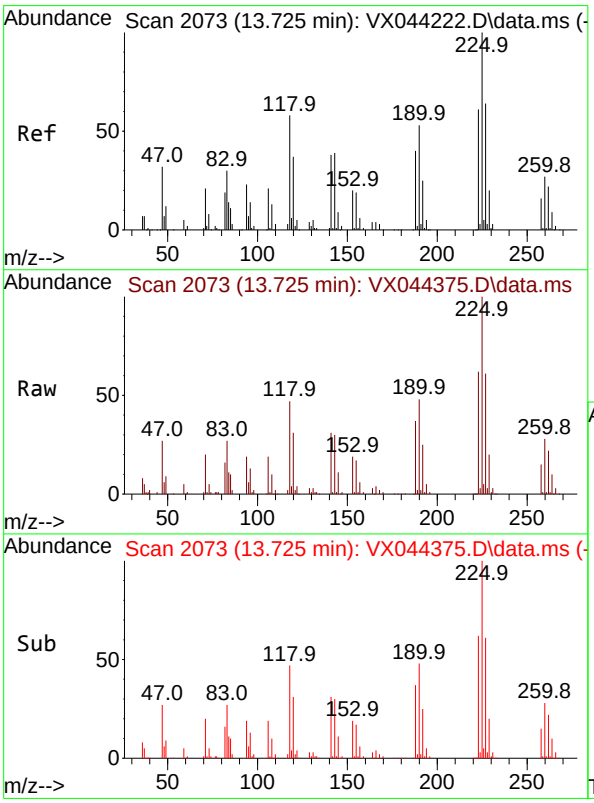
#93
1,2,4-Trichlorobenzene
Concen: 58.218 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 107991

Ion	Ratio	Lower	Upper
180	100		
182	97.4	48.0	144.2
145	31.8	16.6	49.7

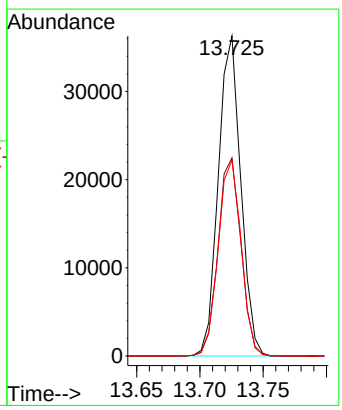


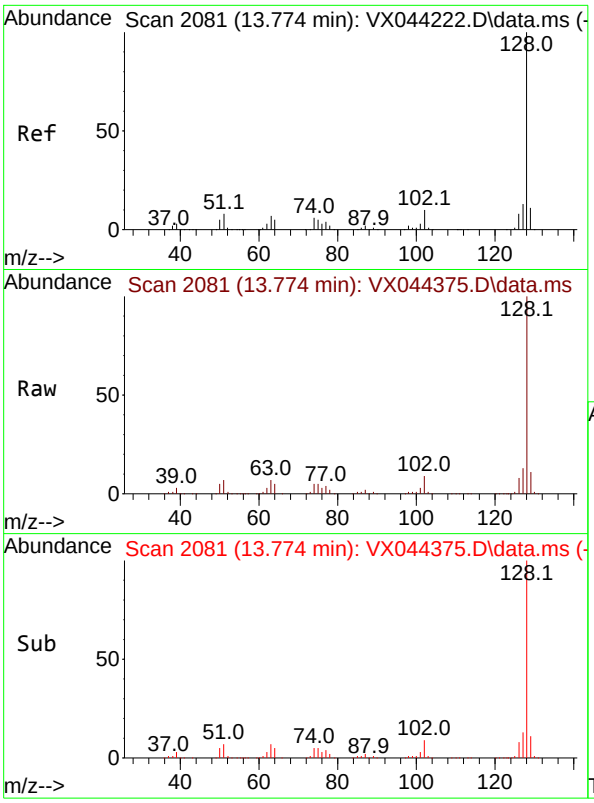


#94
Hexachlorobutadiene
Concen: 60.019 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:225 Resp: 44782

Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.8	92.4
227	62.5	32.1	96.3



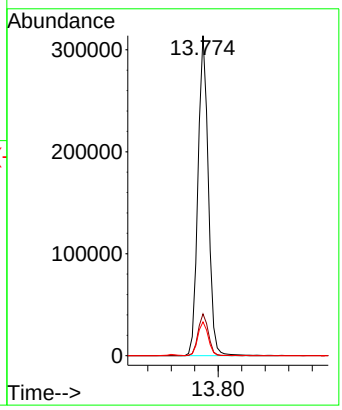


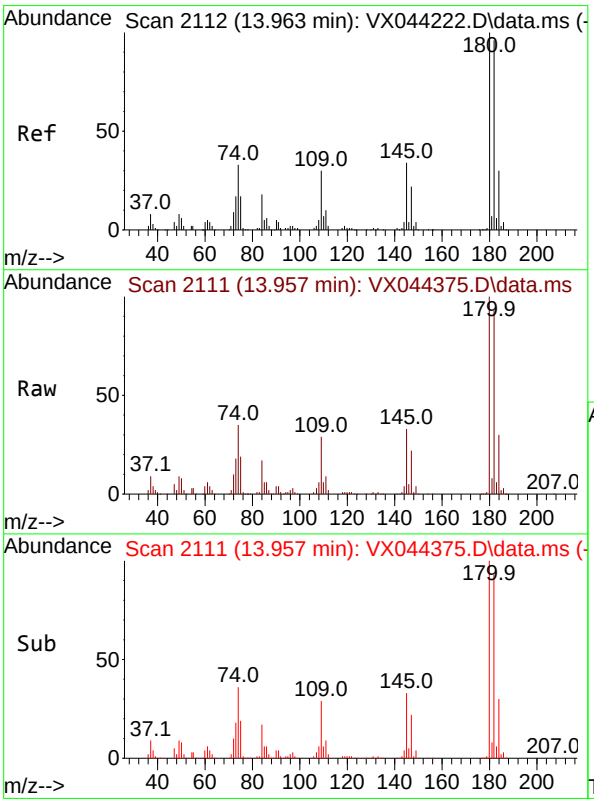
#95
Naphthalene
Concen: 52.848 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 382648

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	9.0	13.4

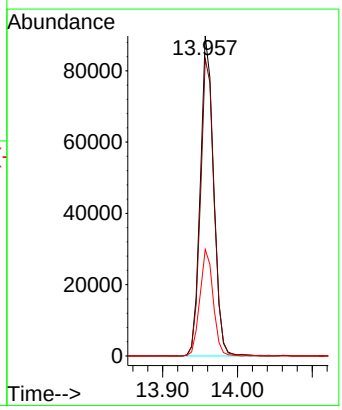




#96
1,2,3-Trichlorobenzene
Concen: 56.523 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044375.D
Acq: 18 Dec 2024 11:57

Tgt Ion:180 Resp: 111207

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	33.2	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044378.D
Acq On : 18 Dec 2024 13:11
Operator : JC/MD
Sample : VX1218WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Quant Time: Dec 19 00:42:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	152020	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	272118	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	233700	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	101950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	125769	47.186	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.380%			
35) Dibromofluoromethane	5.379	113	95224	50.526	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.060%			
50) Toluene-d8	8.647	98	323070	50.811	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.620%			
62) 4-Bromofluorobenzene	11.079	95	107025	48.171	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	46716	19.874	ug/l	98
3) Chloromethane	1.294	50	44741	19.904	ug/l	97
4) Vinyl Chloride	1.374	62	45549	19.450	ug/l	99
5) Bromomethane	1.593	94	28566	17.194	ug/l	97
6) Chloroethane	1.666	64	30702	21.055	ug/l	99
7) Trichlorofluoromethane	1.873	101	72219	15.753	ug/l	96
8) Diethyl Ether	2.136	74	26533	16.955	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	34946	18.837	ug/l	99
10) Methyl Iodide	2.447	142	47253	19.326	ug/l	97
11) Tert butyl alcohol	2.983	59	36875	98.163	ug/l #	94
12) 1,1-Dichloroethene	2.312	96	33505	19.663	ug/l	90
13) Acrolein	2.233	56	47760	87.831	ug/l	100
14) Allyl chloride	2.654	41	55053	19.397	ug/l	99
15) Acrylonitrile	3.068	53	100187	96.281	ug/l	99
16) Acetone	2.386	43	87362	80.396	ug/l	94
17) Carbon Disulfide	2.501	76	61883	19.106	ug/l	99
18) Methyl Acetate	2.703	43	51928	18.534	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	122343	18.399	ug/l	96
20) Methylene Chloride	2.782	84	40273	19.732	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	34770	19.200	ug/l	95
22) Diisopropyl ether	3.763	45	123430	19.313	ug/l	94
23) Vinyl Acetate	3.721	43	517012	99.503	ug/l	99
24) 1,1-Dichloroethane	3.605	63	69838	19.604	ug/l	99
25) 2-Butanone	4.562	43	137972	89.313	ug/l	99
26) 2,2-Dichloropropane	4.471	77	59180	20.448	ug/l	100
27) cis-1,2-Dichloroethene	4.489	96	43520	18.922	ug/l	98
28) Bromochloromethane	4.891	49	30568	17.498	ug/l	100
29) Tetrahydrofuran	5.007	42	92642	93.430	ug/l	97
30) Chloroform	5.092	83	74772	18.681	ug/l	92
31) Cyclohexane	5.458	56	55094	19.151	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	62289	18.748	ug/l	98
36) 1,1-Dichloropropene	5.690	75	44543	18.284	ug/l	98
37) Ethyl Acetate	4.721	43	58608	19.462	ug/l	99
38) Carbon Tetrachloride	5.672	117	48269	18.404	ug/l	99
39) Methylcyclohexane	7.379	83	56507	19.402	ug/l	98
40) Benzene	6.037	78	148380	20.060	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044378.D
Acq On : 18 Dec 2024 13:11
Operator : JC/MD
Sample : VX1218WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Quant Time: Dec 19 00:42:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	30502	19.075 ug/l	98
42) 1,2-Dichloroethane	6.086	62	57603	18.905 ug/l	99
43) Isopropyl Acetate	6.342	43	90225	19.169 ug/l	99
44) Trichloroethene	7.123	130	35150	19.056 ug/l	99
45) 1,2-Dichloropropane	7.427	63	36377	19.250 ug/l	92
46) Dibromomethane	7.586	93	28009	19.105 ug/l	95
47) Bromodichloromethane	7.824	83	47492	18.757 ug/l	97
48) Methyl methacrylate	7.696	41	43221	18.917 ug/l	98
49) 1,4-Dioxane	7.659	88	9745	257.250 ug/l #	68
51) 4-Methyl-2-Pentanone	8.574	43	286862	94.787 ug/l	100
52) Toluene	8.714	92	90242	19.428 ug/l	96
53) t-1,3-Dichloropropene	8.976	75	47729	18.774 ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	53718	19.485 ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	35702	19.348 ug/l	93
56) Ethyl methacrylate	9.116	69	55693	19.118 ug/l	98
57) 1,3-Dichloropropane	9.305	76	63353	19.724 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	126572	86.145 ug/l	99
59) 2-Hexanone	9.433	43	204304	93.265 ug/l	98
60) Dibromochloromethane	9.518	129	33259	18.320 ug/l	98
61) 1,2-Dibromoethane	9.610	107	37294	19.855 ug/l	100
64) Tetrachloroethene	9.269	164	30384	19.589 ug/l	97
65) Chlorobenzene	10.079	112	97639	19.498 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	31230	19.405 ug/l	98
67) Ethyl Benzene	10.189	91	167223	19.327 ug/l	100
68) m/p-Xylenes	10.299	106	124845	39.322 ug/l	98
69) o-Xylene	10.640	106	61740	19.219 ug/l	98
70) Styrene	10.652	104	99766	19.373 ug/l	97
71) Bromoform	10.799	173	18740	18.657 ug/l #	100
73) Isopropylbenzene	10.963	105	159509	20.438 ug/l	100
74) N-amyl acetate	10.841	43	70274	19.483 ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	53907	19.886 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	55682	24.462 ug/l	87
77) Bromobenzene	11.195	156	37389	19.755 ug/l	100
78) n-propylbenzene	11.305	91	175046	20.292 ug/l	99
79) 2-Chlorotoluene	11.366	91	109103	19.557 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	128741	19.891 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	12897	20.003 ug/l	95
82) 4-Chlorotoluene	11.451	91	122217	19.783 ug/l	99
83) tert-Butylbenzene	11.713	119	129411	20.232 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	129290	20.340 ug/l	99
85) sec-Butylbenzene	11.890	105	156306	20.129 ug/l	99
86) p-Isopropyltoluene	12.006	119	126037	19.501 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	65335	19.763 ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	66369	19.529 ug/l	99
89) n-Butylbenzene	12.329	91	103934	19.124 ug/l	99
90) Hexachloroethane	12.536	117	17384	18.426 ug/l	88
91) 1,2-Dichlorobenzene	12.335	146	65366	19.042 ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	9208	17.498 ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	36183	19.227 ug/l	99
94) Hexachlorobutadiene	13.725	225	15368	20.302 ug/l	99
95) Naphthalene	13.774	128	139046	18.928 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	39406	19.742 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044378.D
Acq On : 18 Dec 2024 13:11
Operator : JC/MD
Sample : VX1218WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Quant Time: Dec 19 00:42:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

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

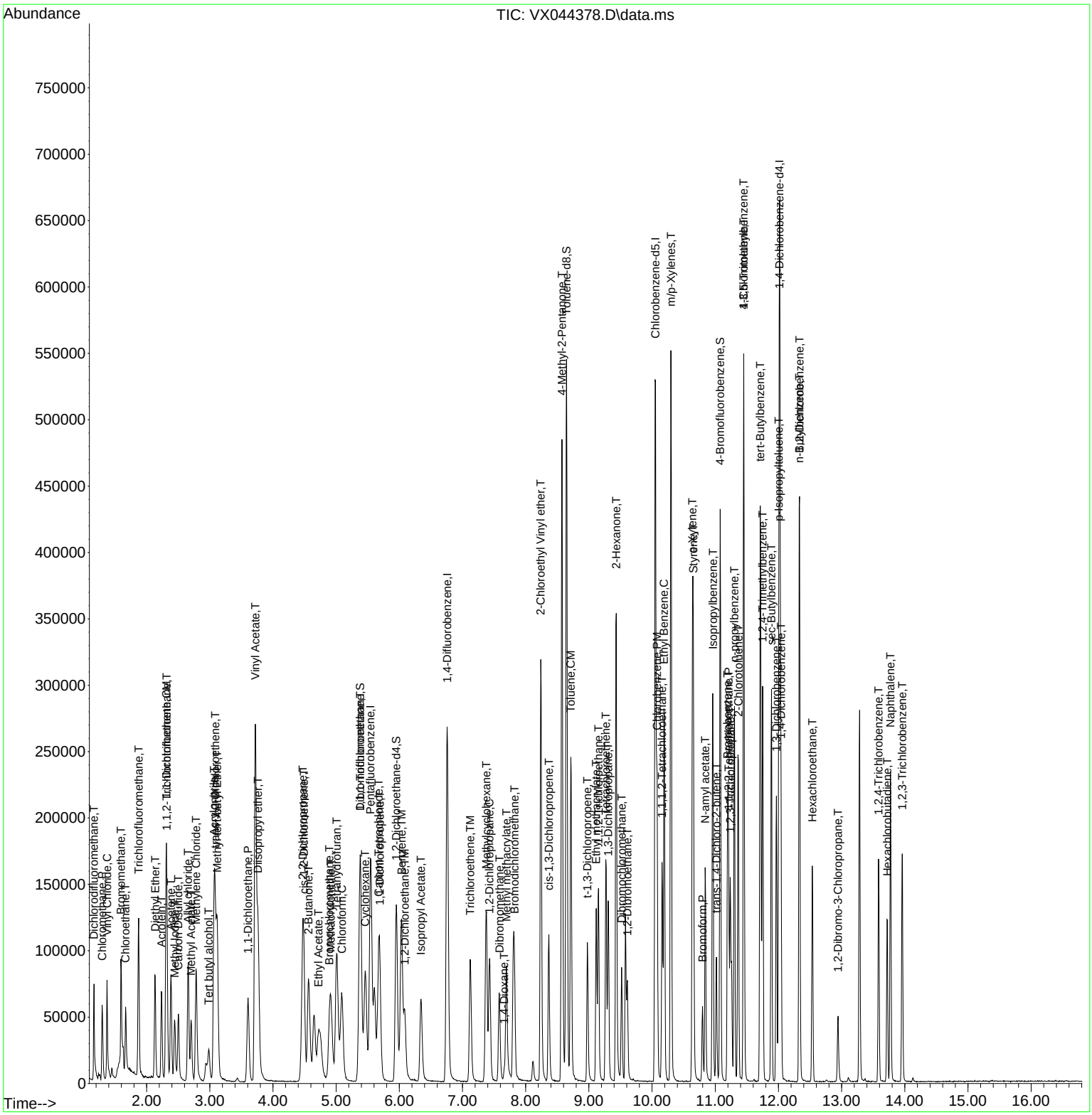
(#) = qualifier out of range (m) = manual integration (+) = signals summed

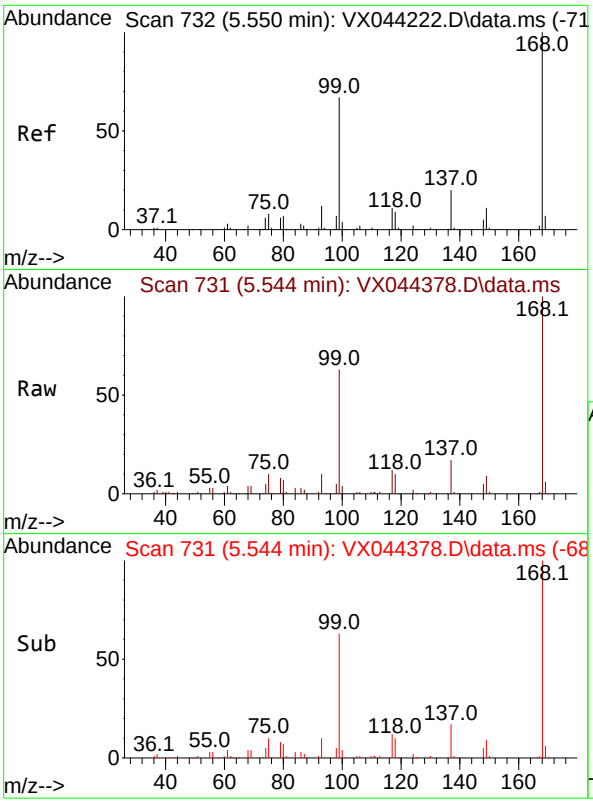
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044378.D
Acq On : 18 Dec 2024 13:11
Operator : JC/MD
Sample : VX1218WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Quant Time: Dec 19 00:42:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



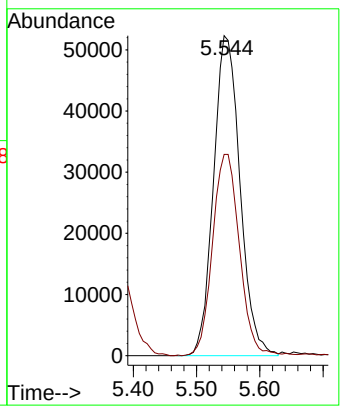


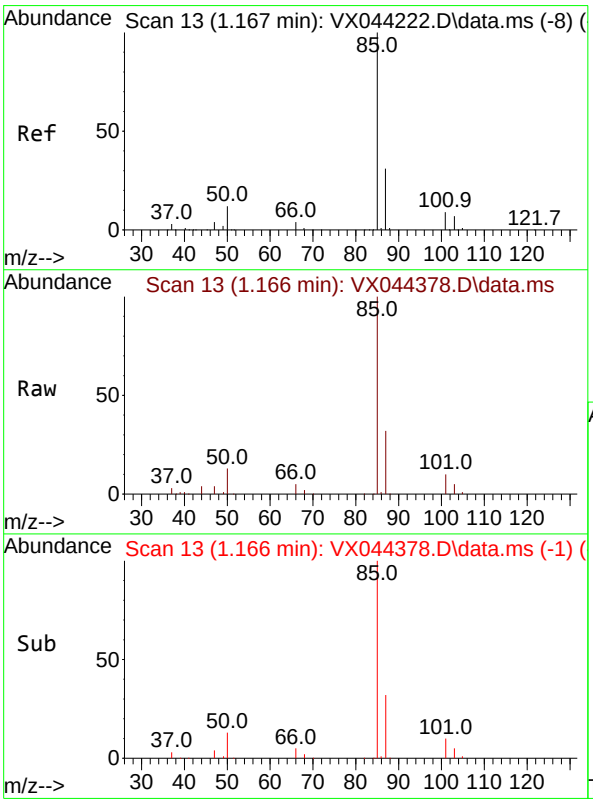
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:168 Resp: 152020

Ion	Ratio	Lower	Upper
168	100		
99	62.7	53.4	80.0

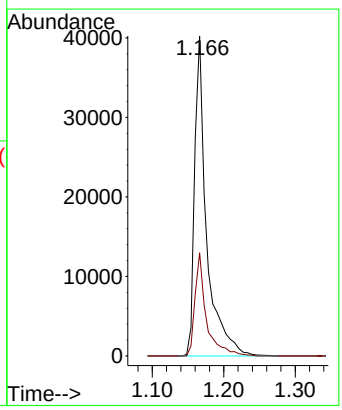


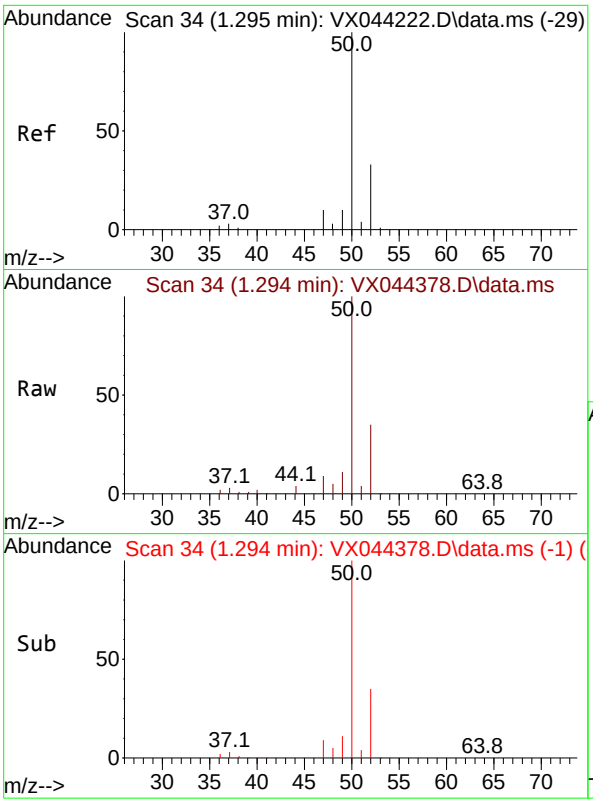


#2
Dichlorodifluoromethane
Concen: 19.874 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 85 Resp: 46716

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.4	46.4



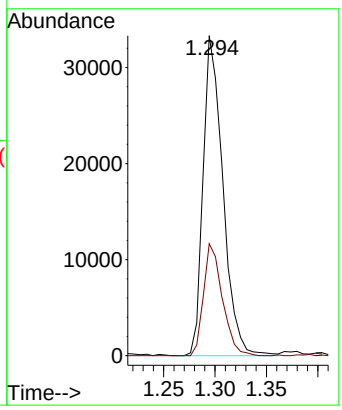


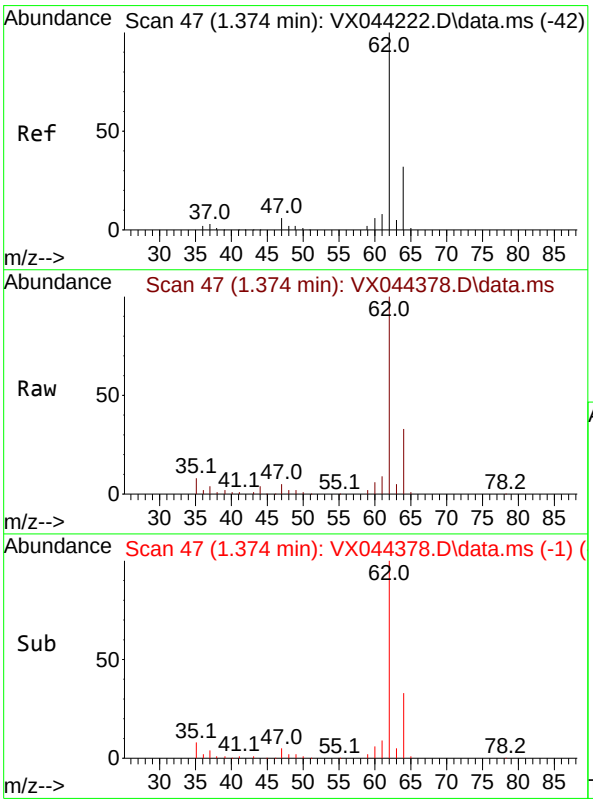
#3
Chloromethane
Concen: 19.904 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 50 Resp: 44741

Ion	Ratio	Lower	Upper
50	100		
52	35.0	26.5	39.7

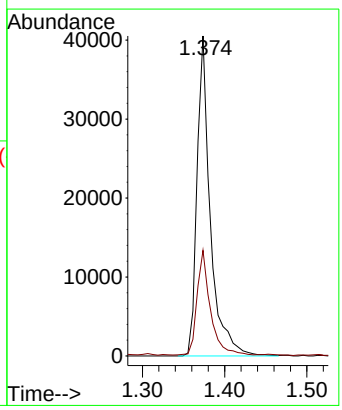


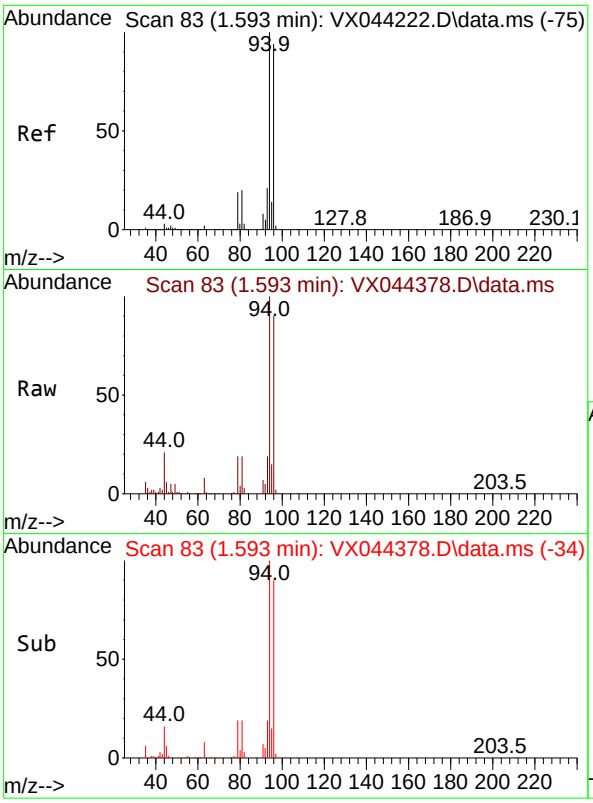


#4
Vinyl Chloride
Concen: 19.450 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 62 Resp: 45549

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.7	38.5



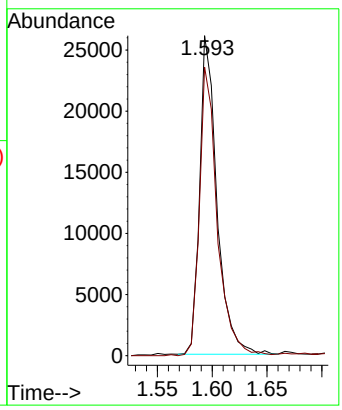


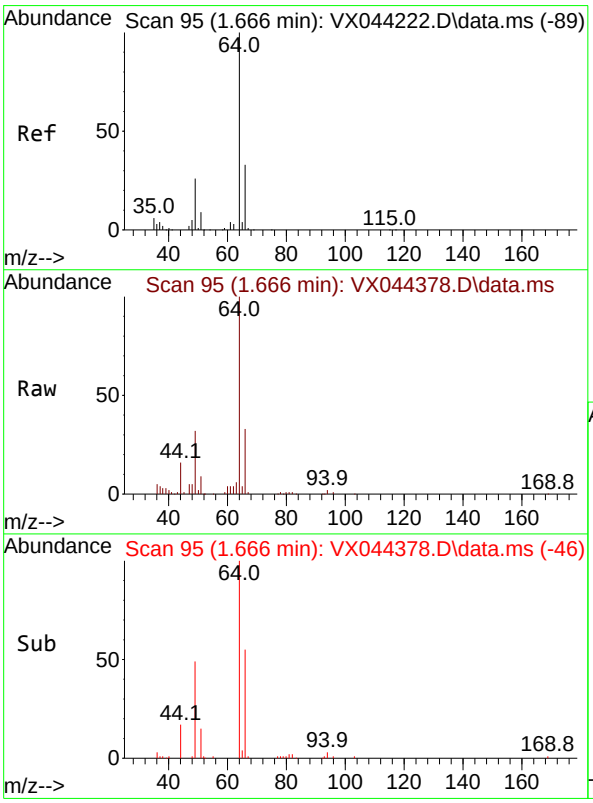
#5
Bromomethane
Concen: 17.194 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 94 Resp: 28566

Ion	Ratio	Lower	Upper
94	100		
96	90.6	74.9	112.3

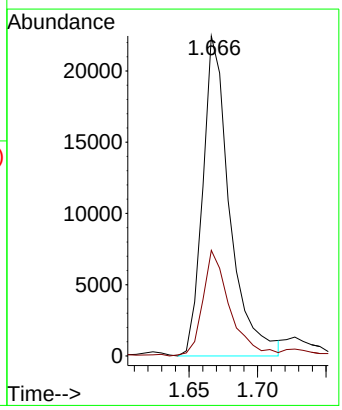


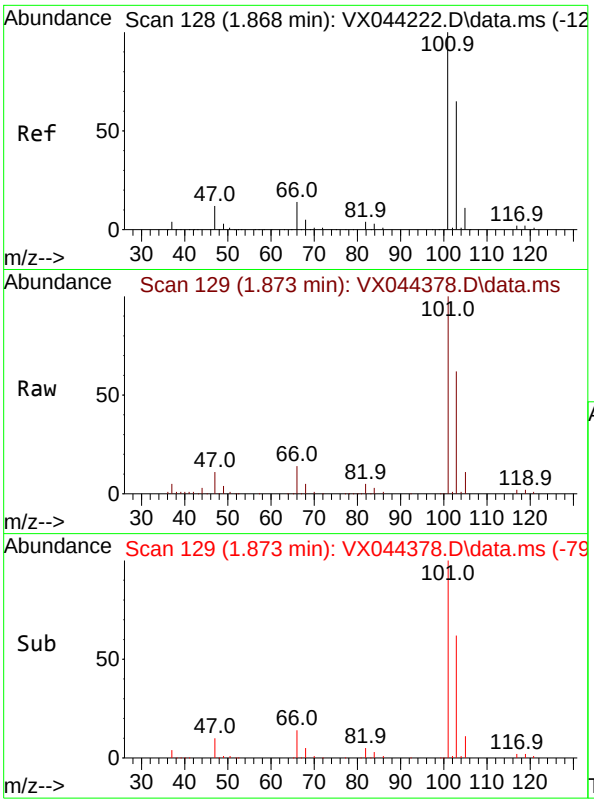


#6
Chloroethane
Concen: 21.055 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 64 Resp: 30702

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.6	39.8



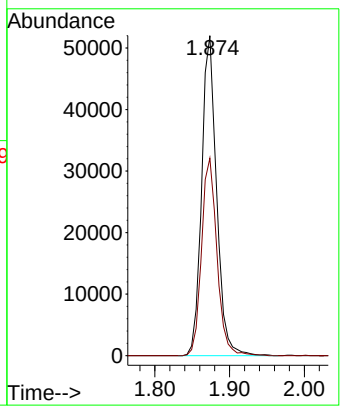


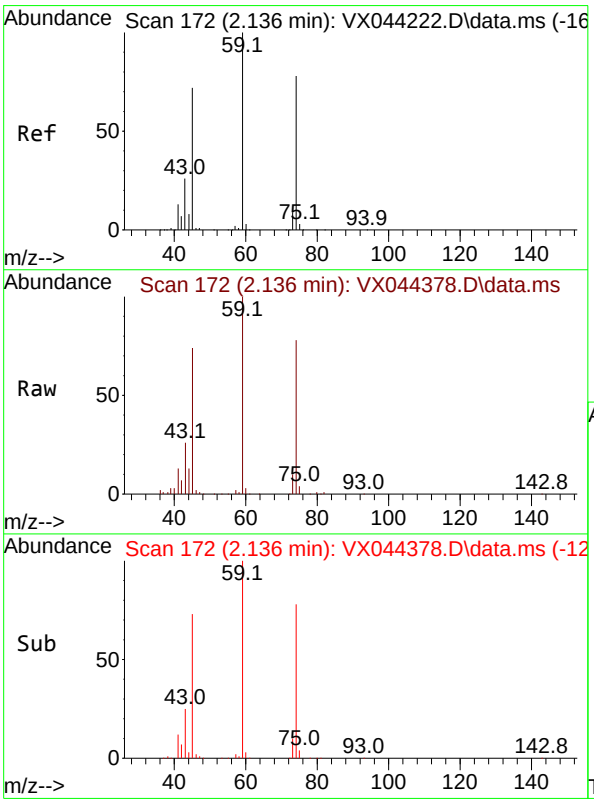
#7
Trichlorofluoromethane
Concen: 15.753 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:101 Resp: 72219

Ion	Ratio	Lower	Upper
101	100		
103	61.7	51.8	77.8

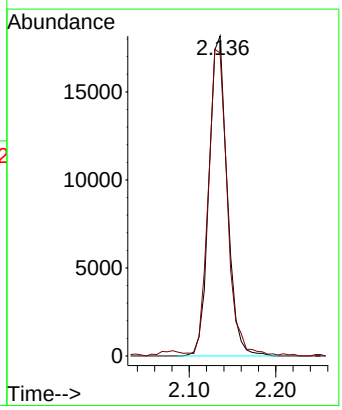


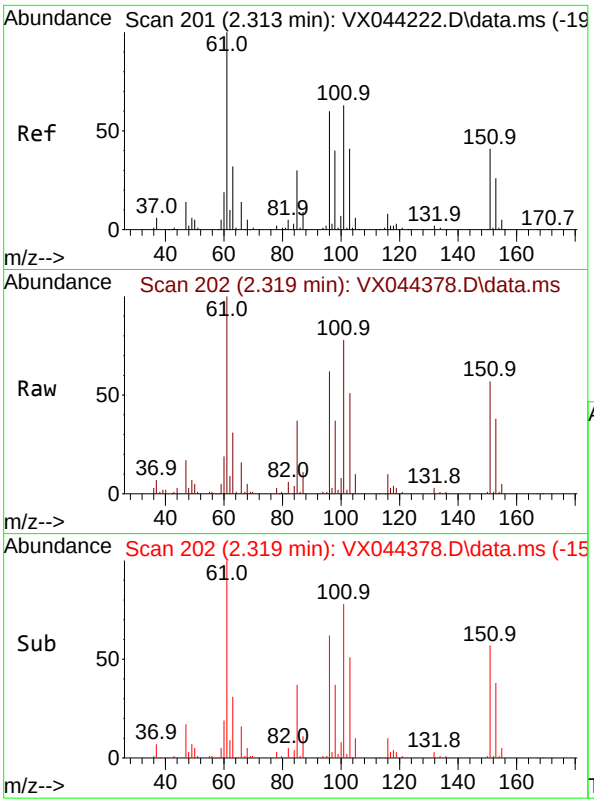


#8
Diethyl Ether
Concen: 16.955 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 74 Resp: 26533

Ion	Ratio	Lower	Upper
74	100		
45	98.9	48.4	145.0



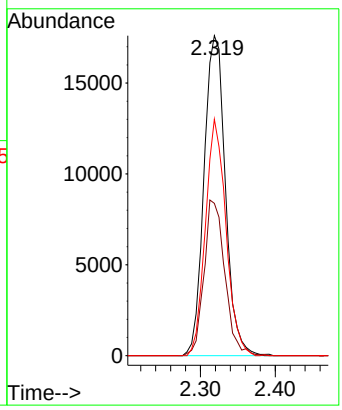


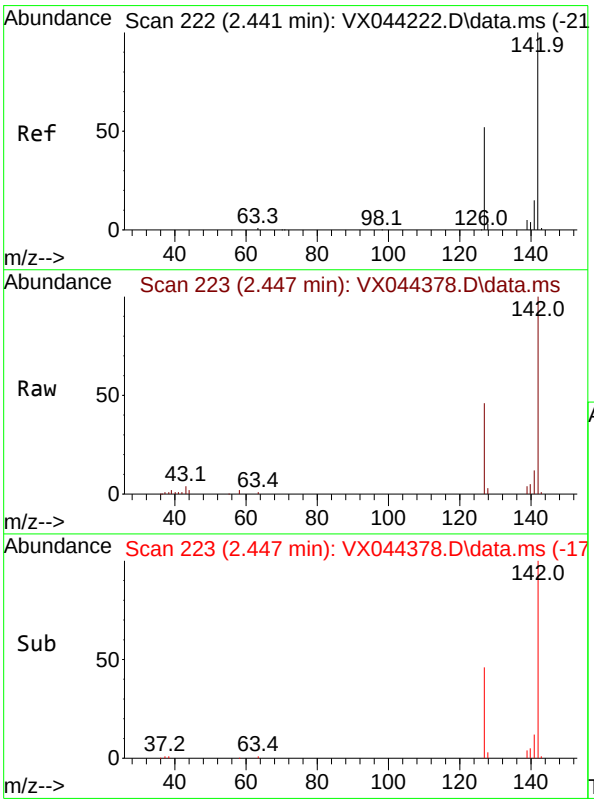
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.837 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:101 Resp: 34946

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.5	57.7
151	71.1	55.8	83.6

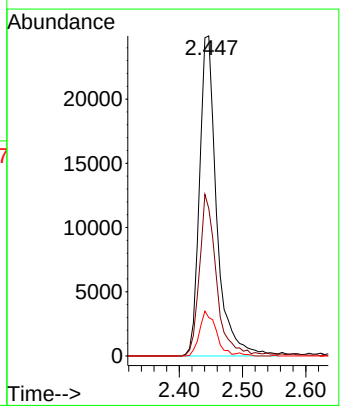


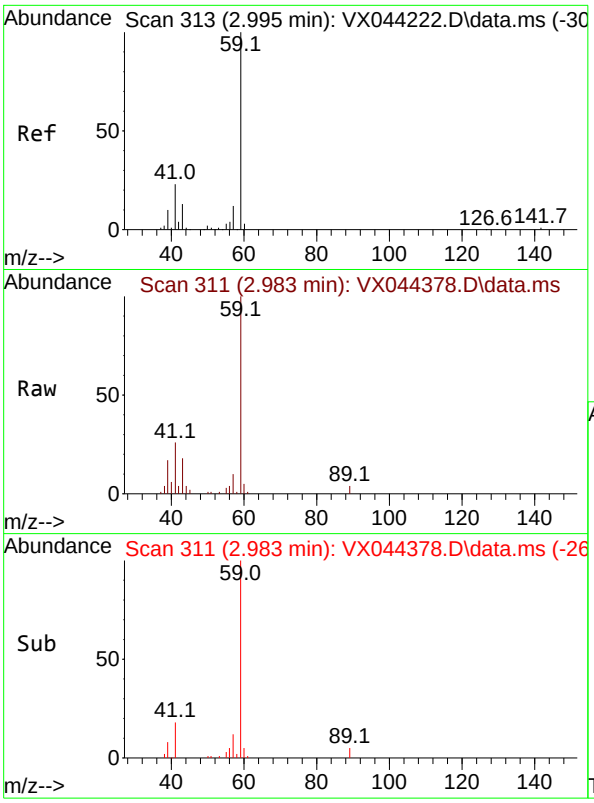


#10
Methyl Iodide
Concen: 19.326 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:142 Resp: 47253

Ion	Ratio	Lower	Upper
142	100		
127	49.9	41.8	62.8
141	13.5	11.5	17.3



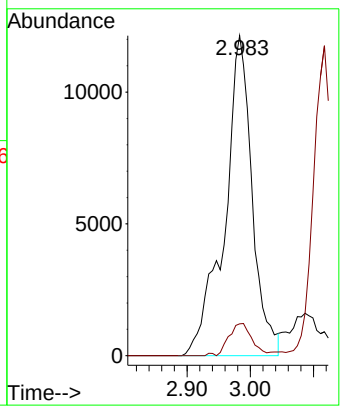


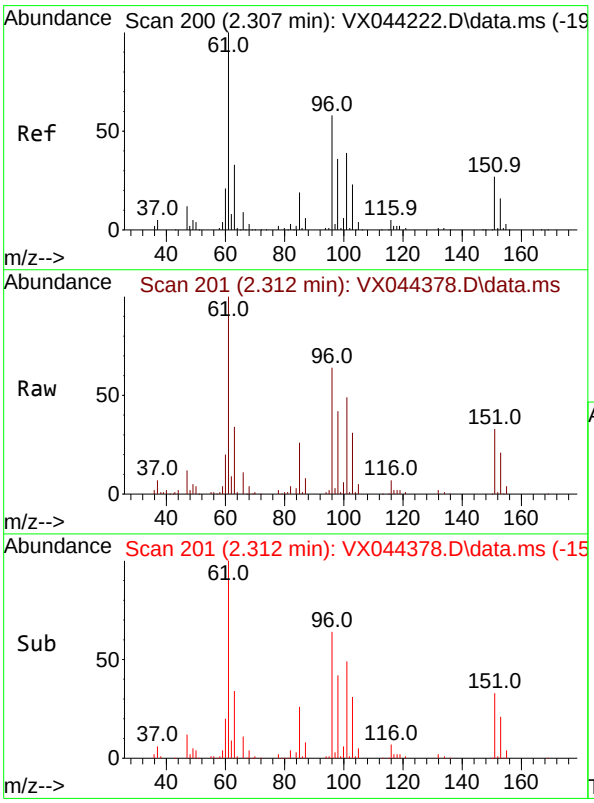
#11
Tert butyl alcohol
Concen: 98.163 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 59 Resp: 36875

Ion	Ratio	Lower	Upper
59	100		
57	8.6	8.8	13.2#

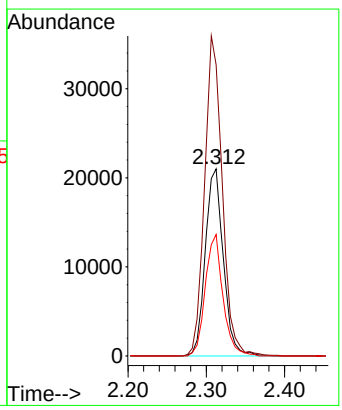


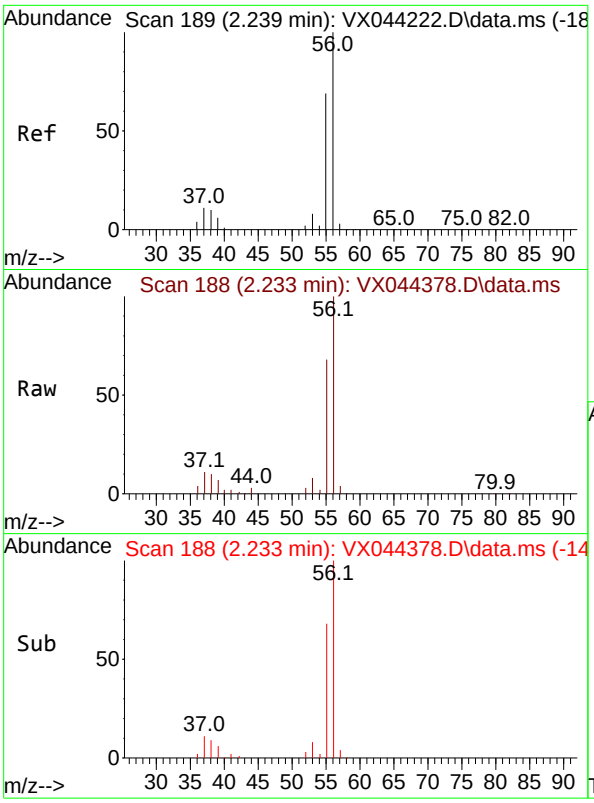


#12
1,1-Dichloroethene
Concen: 19.663 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 96 Resp: 33505

Ion	Ratio	Lower	Upper
96	100		
61	155.7	138.0	207.0
98	64.9	50.0	75.0



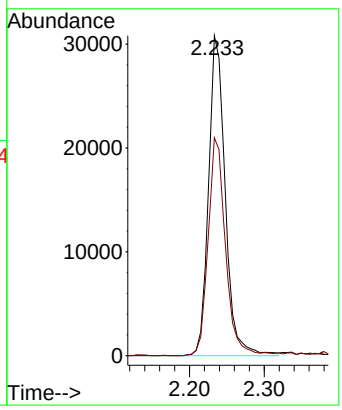


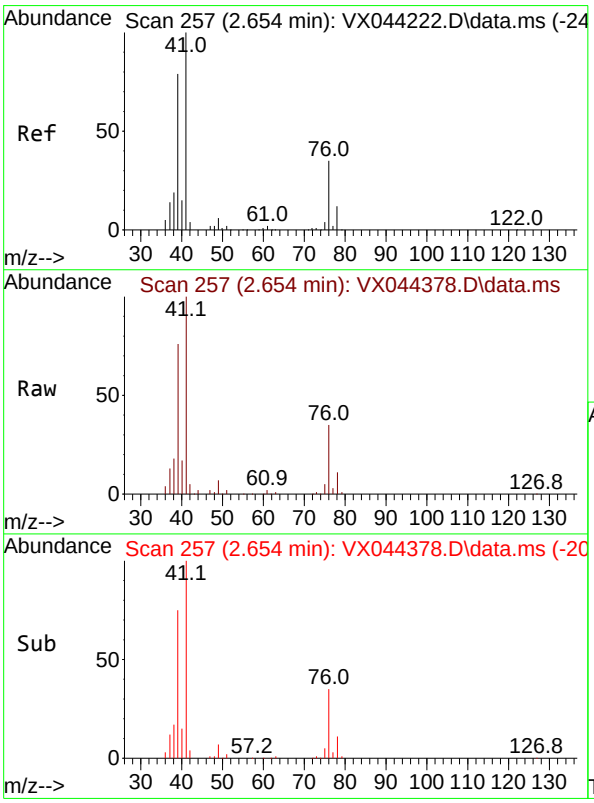
#13
Acrolein
Concen: 87.831 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 56 Resp: 47760

Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.6	84.8

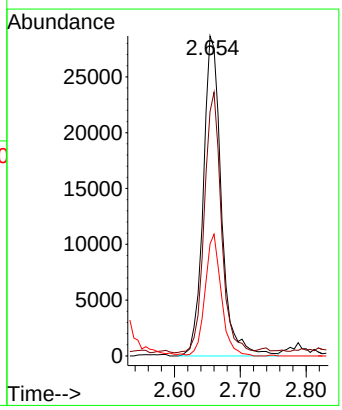


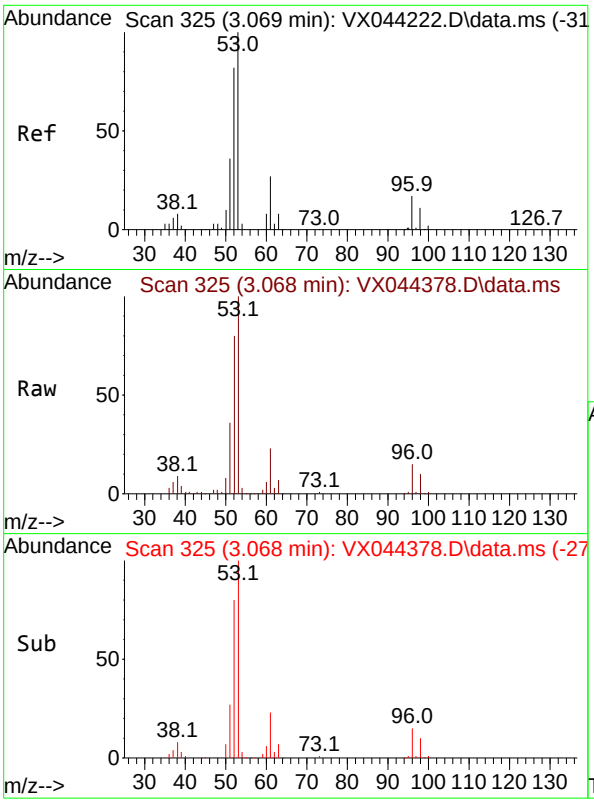


#14
Allyl chloride
Concen: 19.397 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 41 Resp: 55053

Ion	Ratio	Lower	Upper
41	100		
39	76.2	61.9	92.9
76	34.0	27.4	41.2



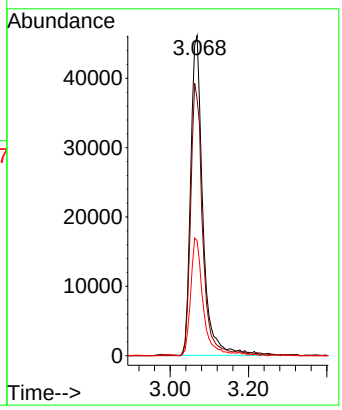


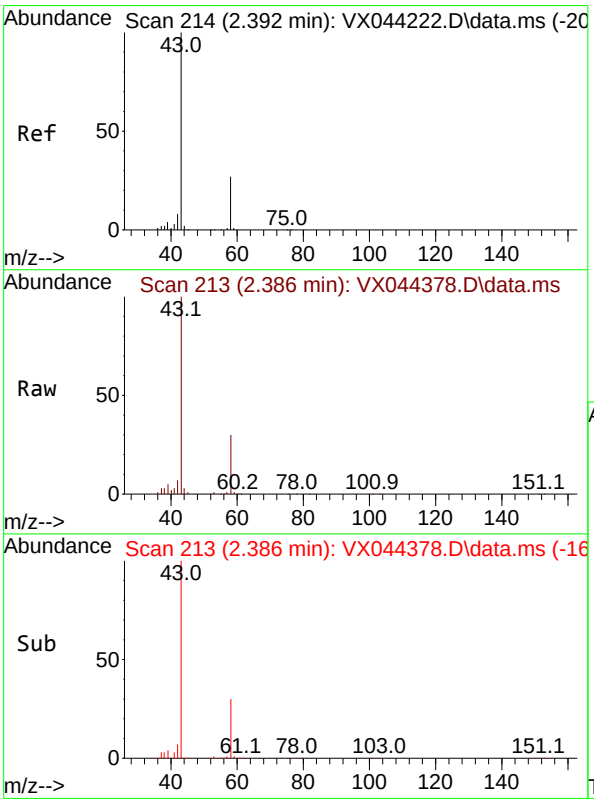
#15
Acrylonitrile
Concen: 96.281 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 53 Resp: 100187

Ion	Ratio	Lower	Upper
53	100		
52	82.3	67.4	101.0
51	37.9	30.3	45.5

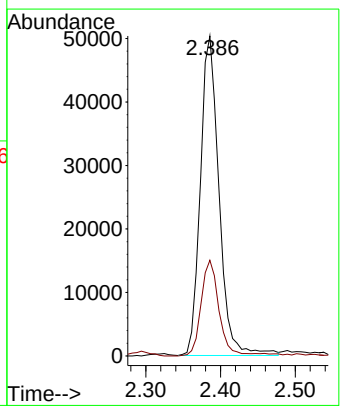


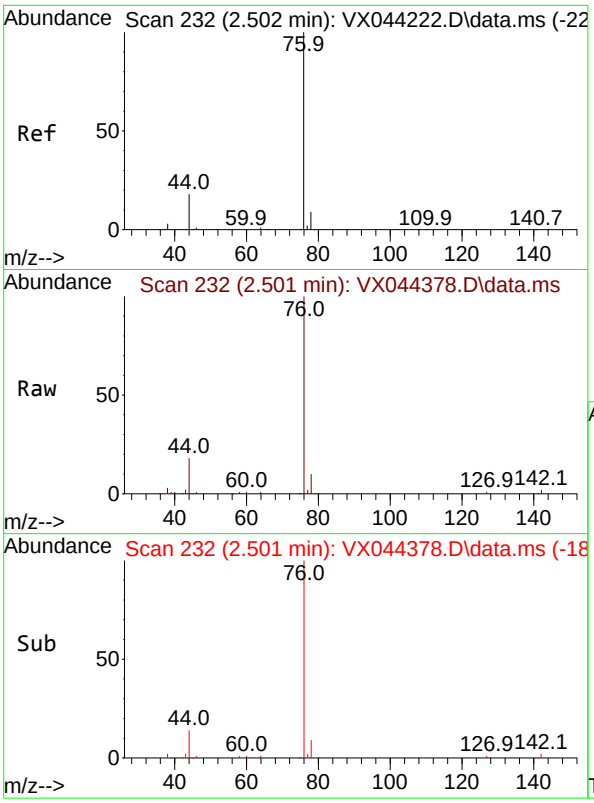


#16
Acetone
Concen: 80.396 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 87362

Ion	Ratio	Lower	Upper
43	100		
58	29.9	21.6	32.4



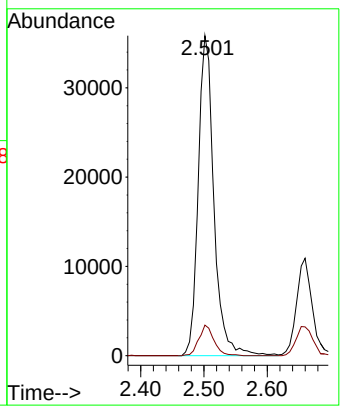


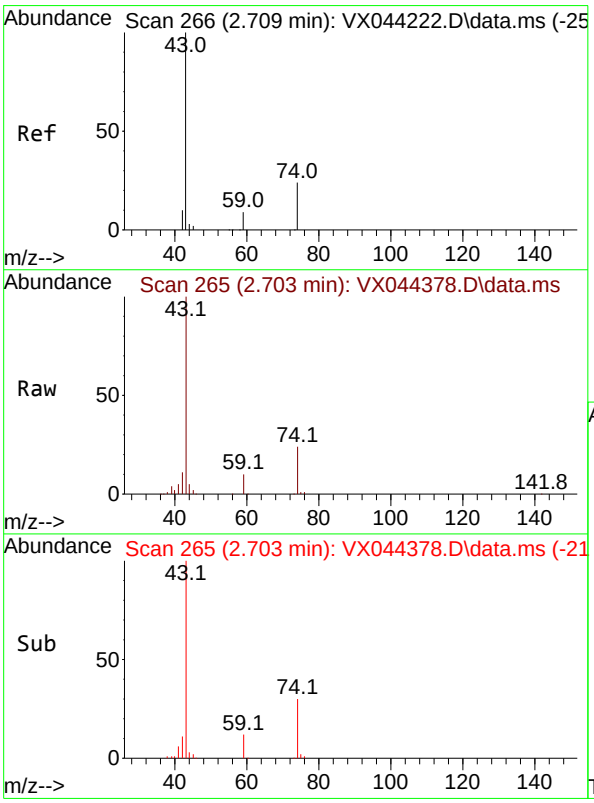
#17
Carbon Disulfide
Concen: 19.106 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 76 Resp: 61883

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.4	11.0

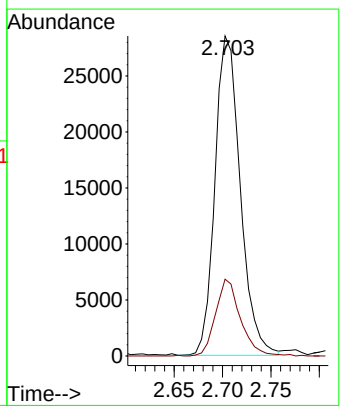


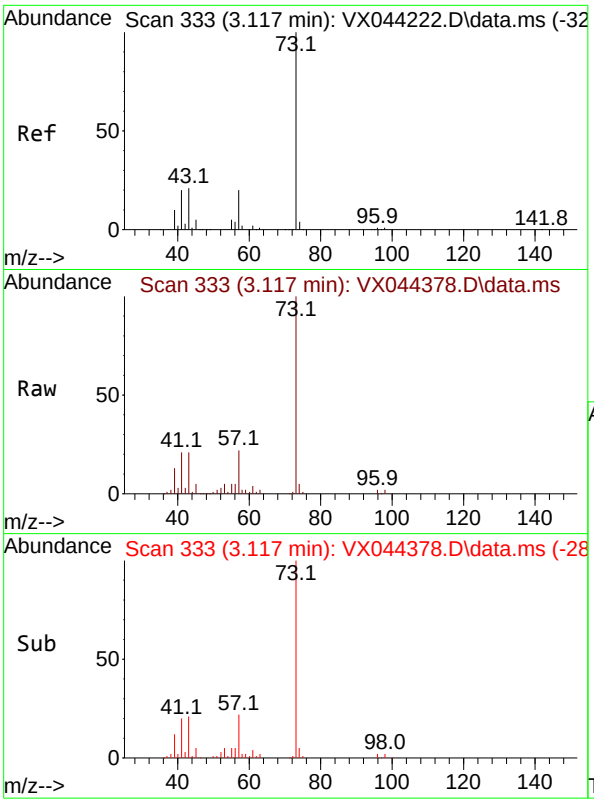


#18
Methyl Acetate
Concen: 18.534 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 51928

Ion	Ratio	Lower	Upper
43	100		
74	23.6	17.7	26.5



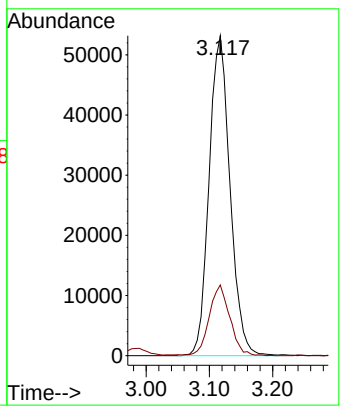


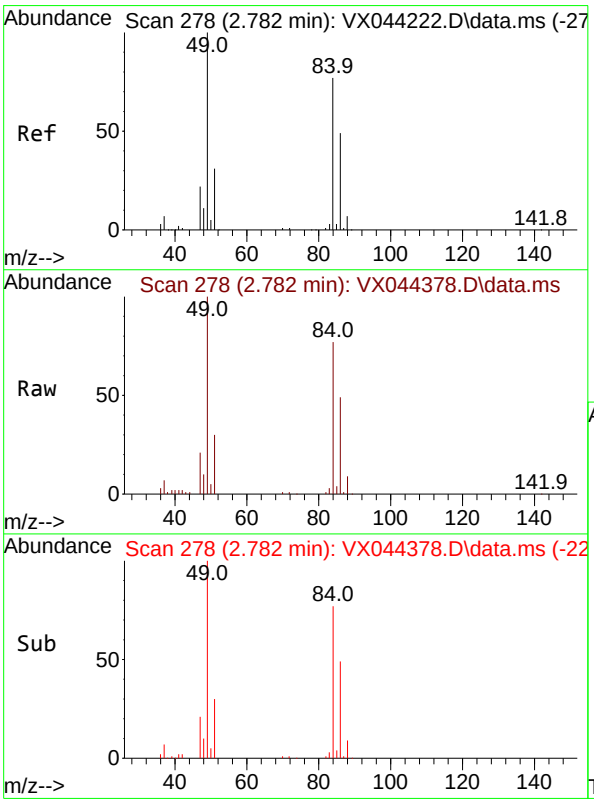
#19
Methyl tert-butyl Ether
Concen: 18.399 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 73 Resp: 122343

Ion	Ratio	Lower	Upper
73	100		
57	22.1	16.2	24.4

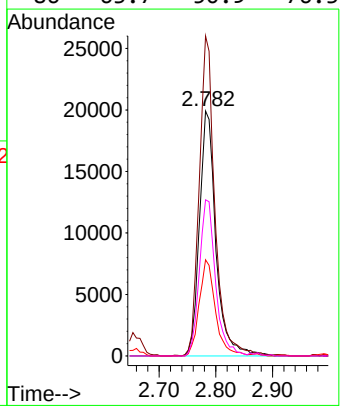


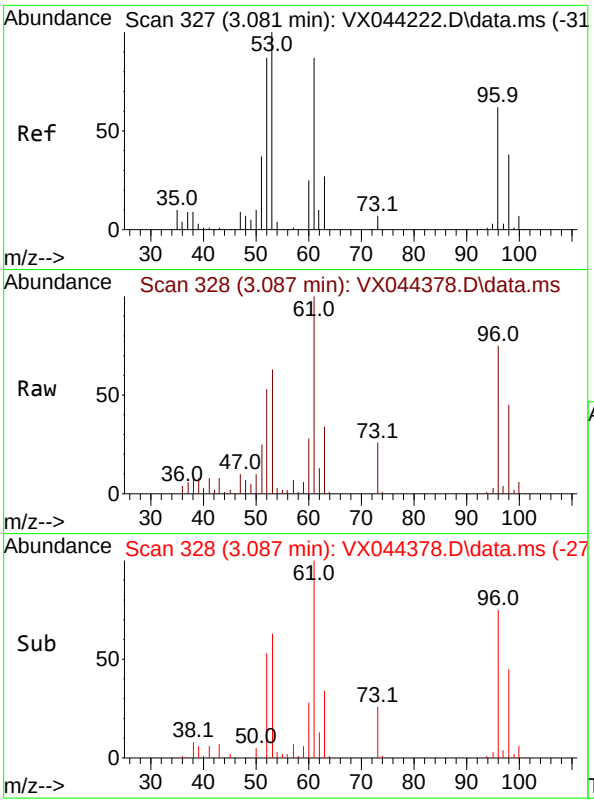


#20
Methylene Chloride
Concen: 19.732 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 84 Resp: 40273

Ion	Ratio	Lower	Upper
84	100		
49	130.3	104.2	156.4
51	39.2	32.2	48.4
86	63.7	50.9	76.3



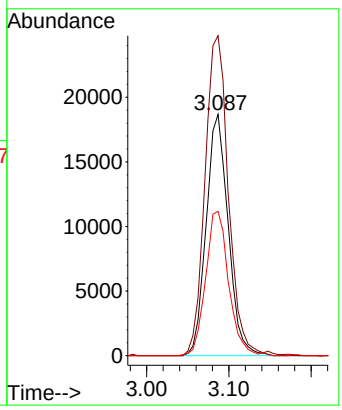


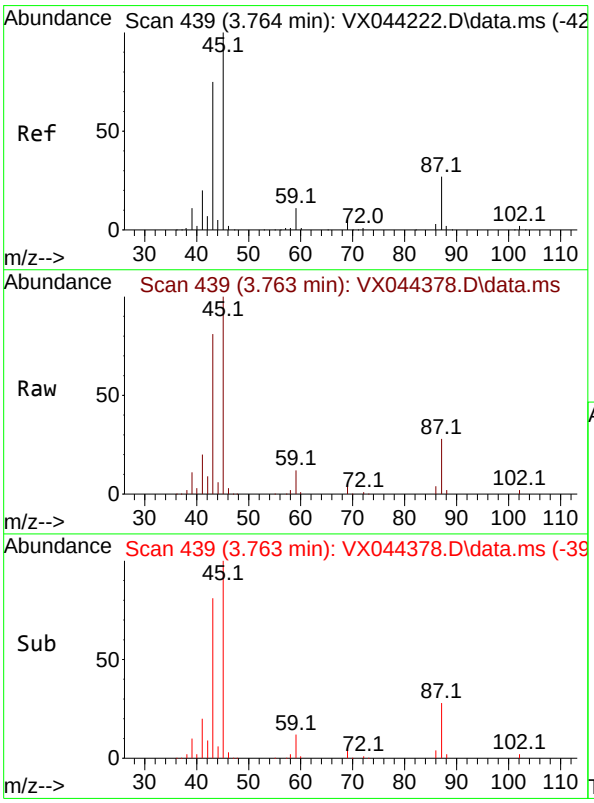
#21
trans-1,2-Dichloroethene
Concen: 19.200 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 96 Resp: 34770

Ion	Ratio	Lower	Upper
96	100		
61	132.6	112.0	168.0
98	59.8	48.8	73.2

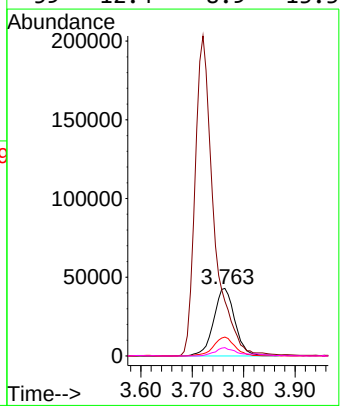


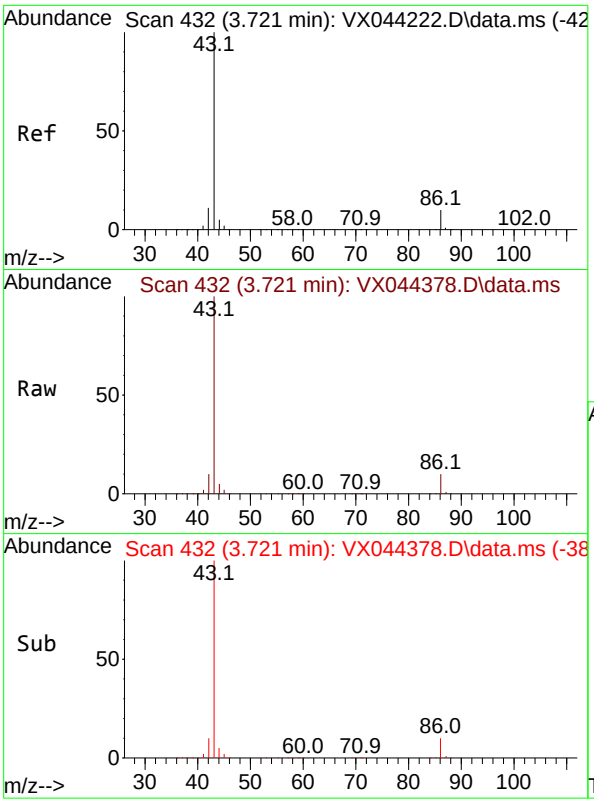


#22
Diisopropyl ether
Concen: 19.313 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 45 Resp: 123430

Ion	Ratio	Lower	Upper
45	100		
43	81.1	60.2	90.2
87	27.9	21.2	31.8
59	12.4	8.9	13.3



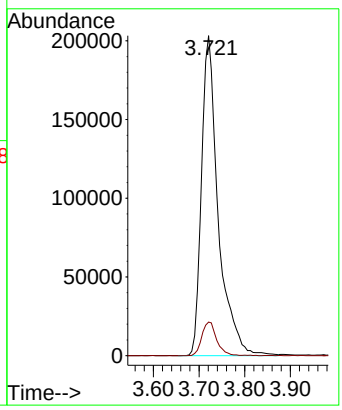


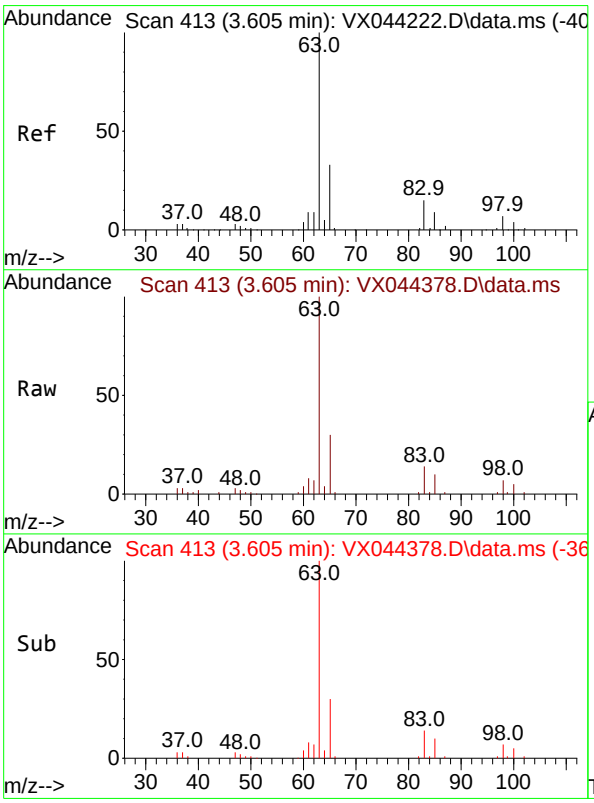
#23
Vinyl Acetate
Concen: 99.503 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 43 Resp: 517012

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

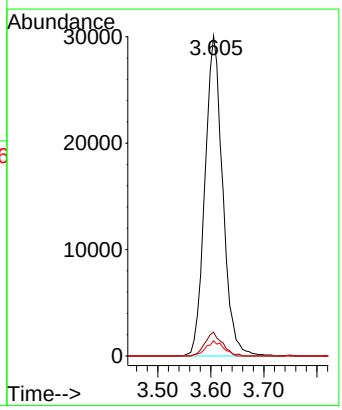


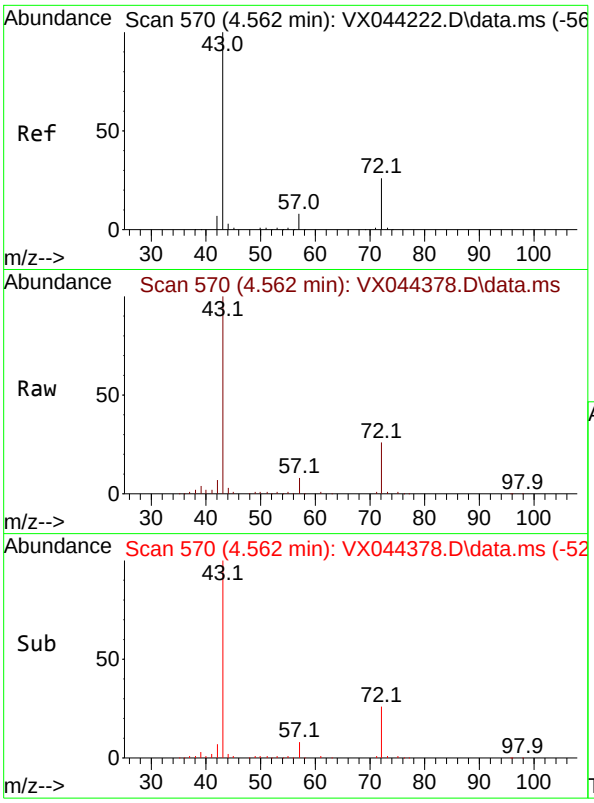


#24
1,1-Dichloroethane
Concen: 19.604 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 63 Resp: 69838

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.8	2.1	6.3



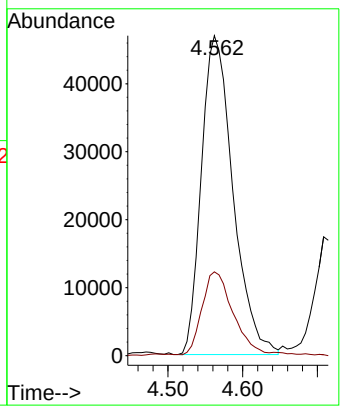


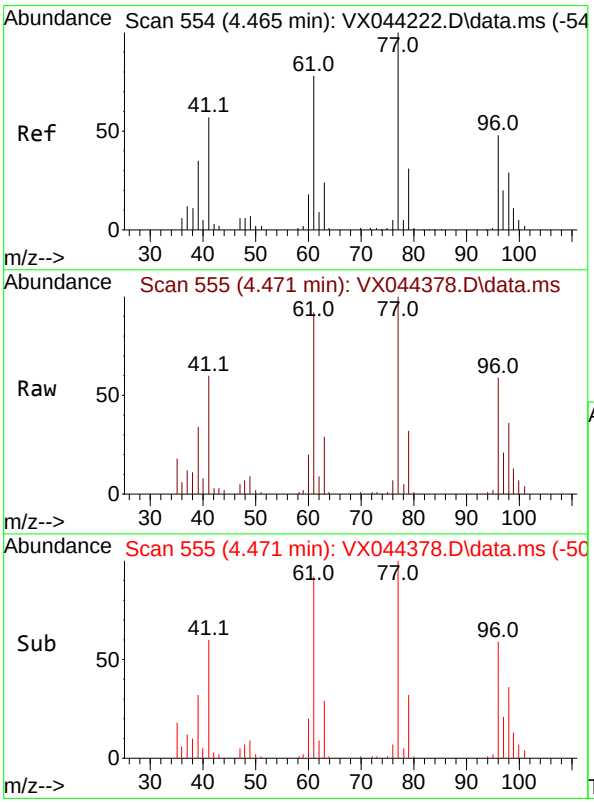
#25
2-Butanone
Concen: 89.313 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 43 Resp: 137972

Ion	Ratio	Lower	Upper
43	100		
72	25.9	20.2	30.4

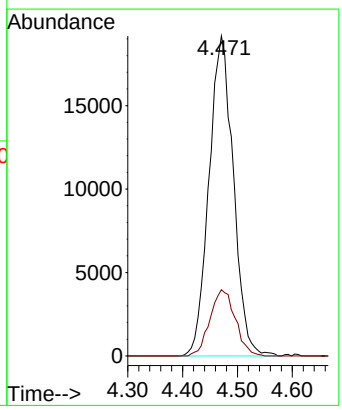


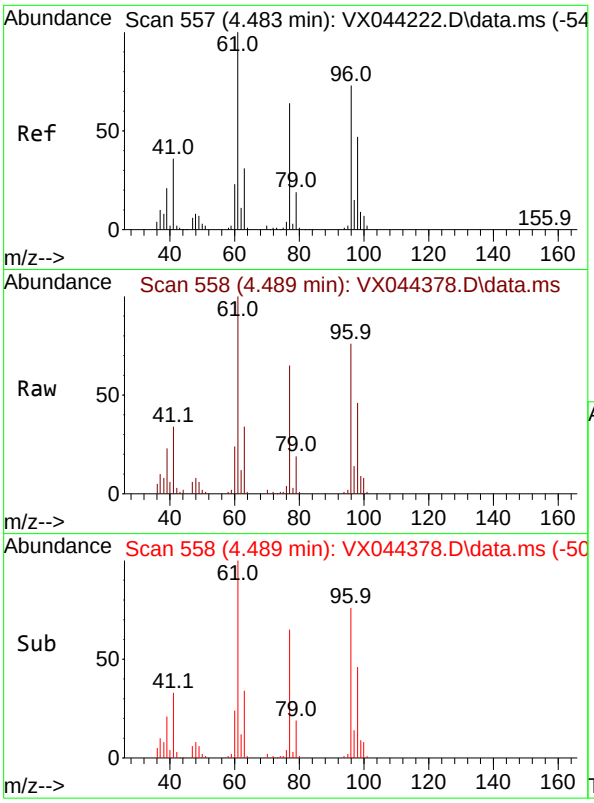


#26
2,2-Dichloropropane
Concen: 20.448 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 77 Resp: 59180

Ion	Ratio	Lower	Upper
77	100		
97	21.5	10.7	32.1



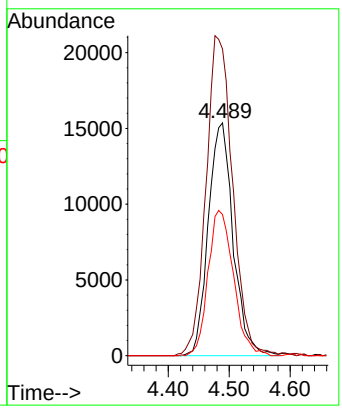


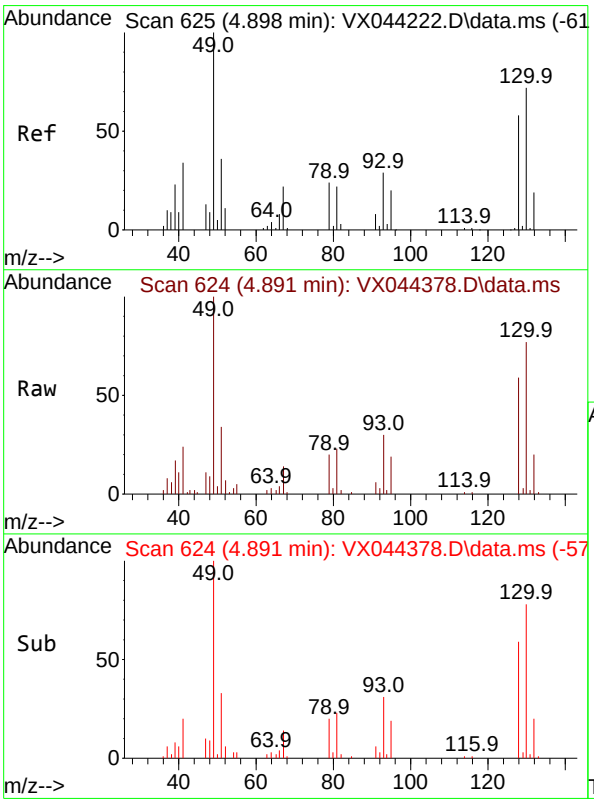
#27
cis-1,2-Dichloroethene
Concen: 18.922 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 96 Resp: 43520

Ion	Ratio	Lower	Upper
96	100		
61	146.9	0.0	299.0
98	63.8	0.0	129.0

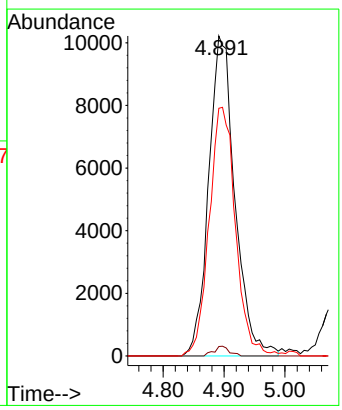


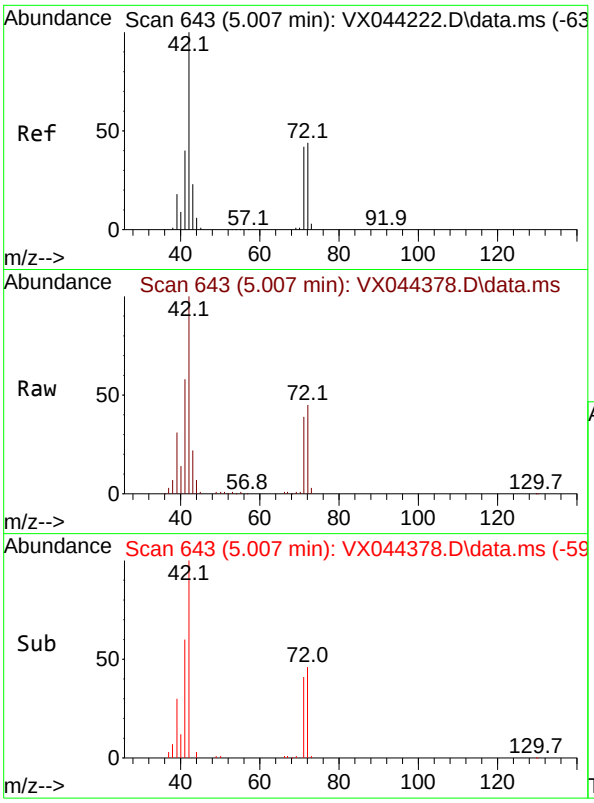


#28
Bromochloromethane
Concen: 17.498 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 49 Resp: 30568

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	78.0	62.1	93.1



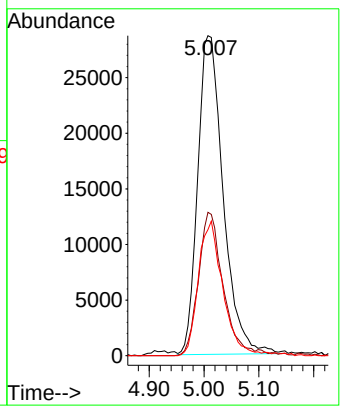


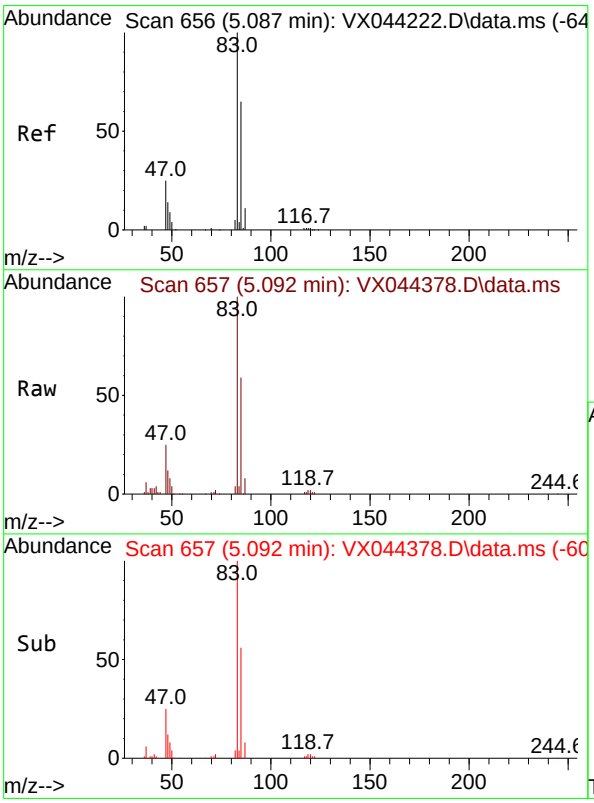
#29
Tetrahydrofuran
Concen: 93.430 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 42 Resp: 92642

Ion	Ratio	Lower	Upper
42	100		
72	44.0	37.0	55.6
71	40.6	33.6	50.4

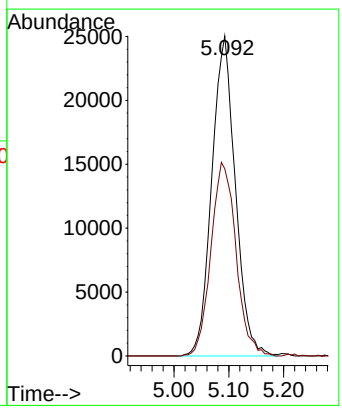


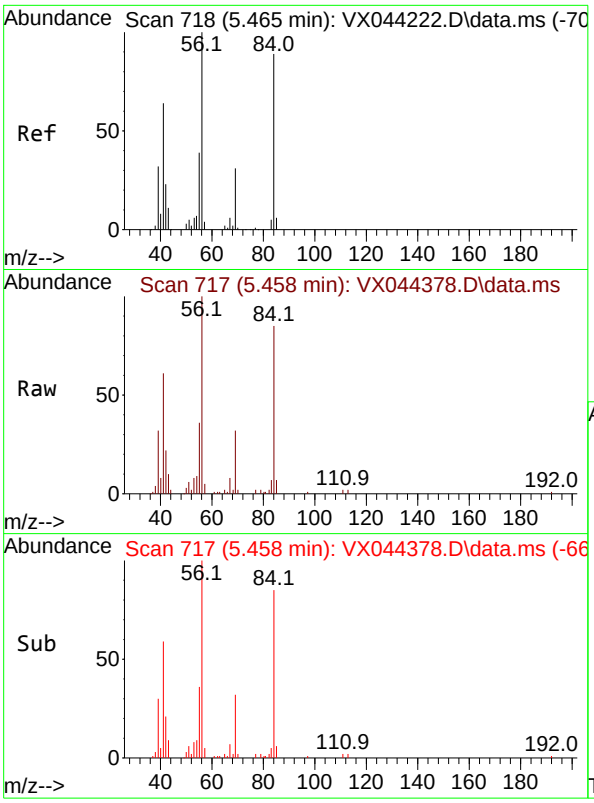


#30
Chloroform
Concen: 18.681 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 83 Resp: 74772

Ion	Ratio	Lower	Upper
83	100		
85	58.5	51.6	77.4



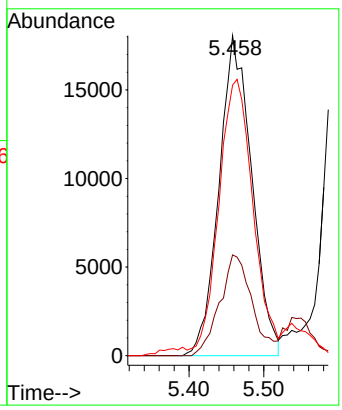


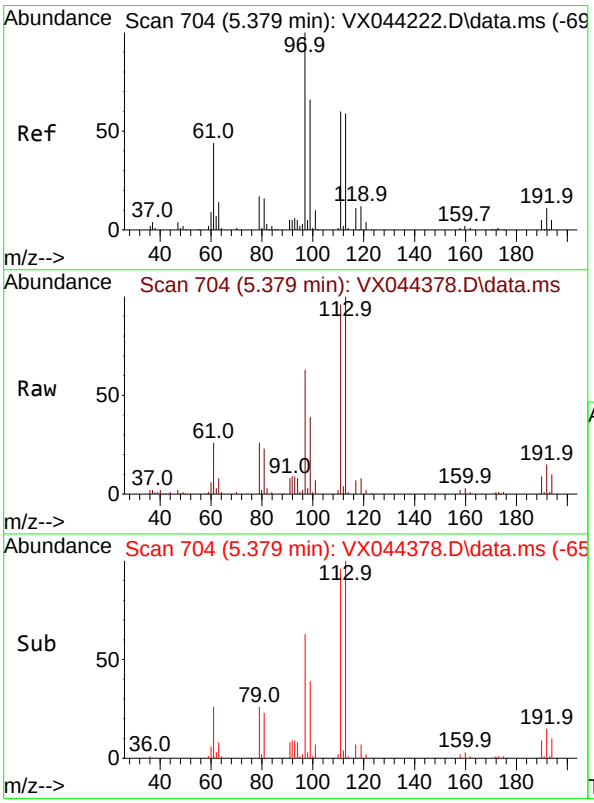
#31
Cyclohexane
Concen: 19.151 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 56 Resp: 55094

Ion	Ratio	Lower	Upper
56	100		
69	31.5	24.7	37.1
84	82.7	71.0	106.6

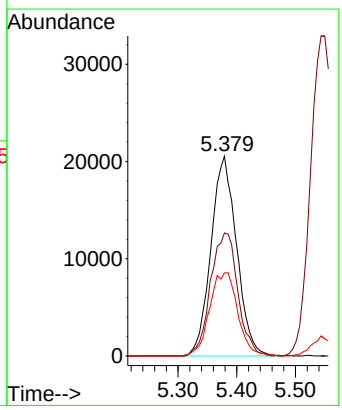


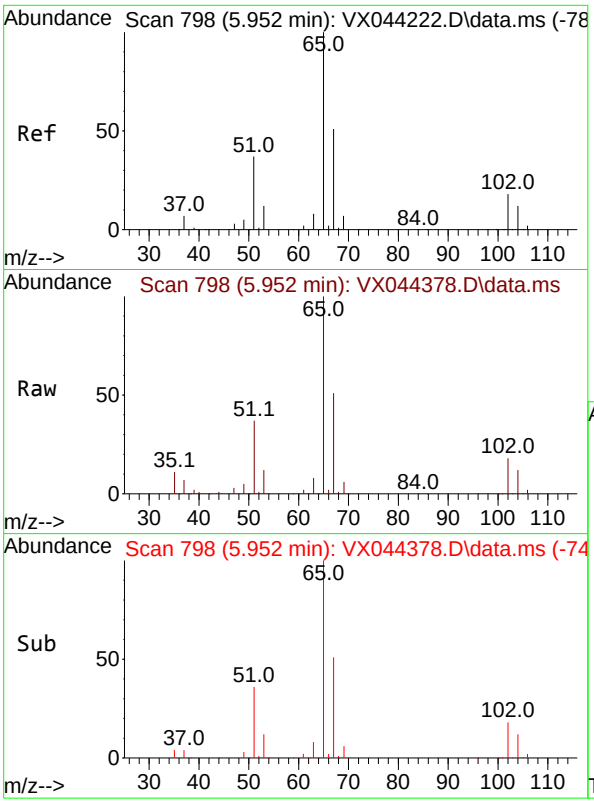


#32
1,1,1-Trichloroethane
Concen: 18.748 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 97 Resp: 62289

Ion	Ratio	Lower	Upper
97	100		
99	65.4	50.8	76.2
61	45.5	35.2	52.8



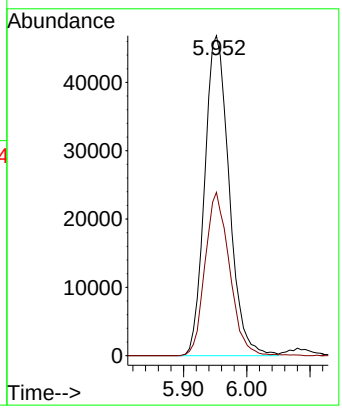


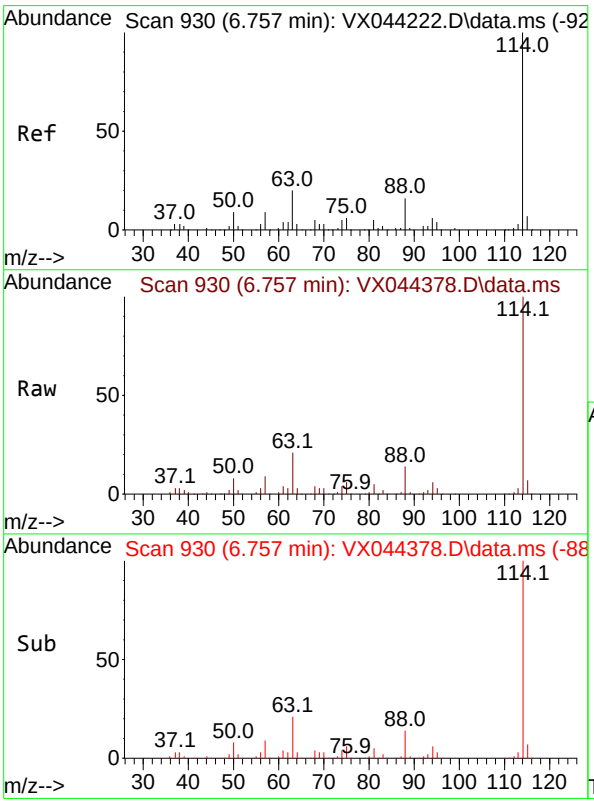
#33
1,2-Dichloroethane-d4
Concen: 47.186 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 65 Resp: 125769

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	101.6

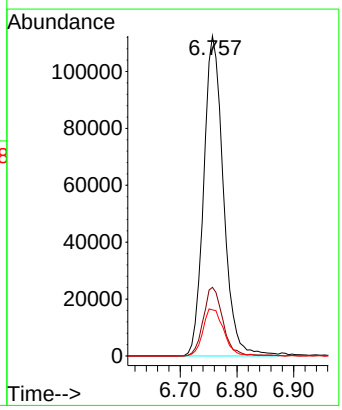


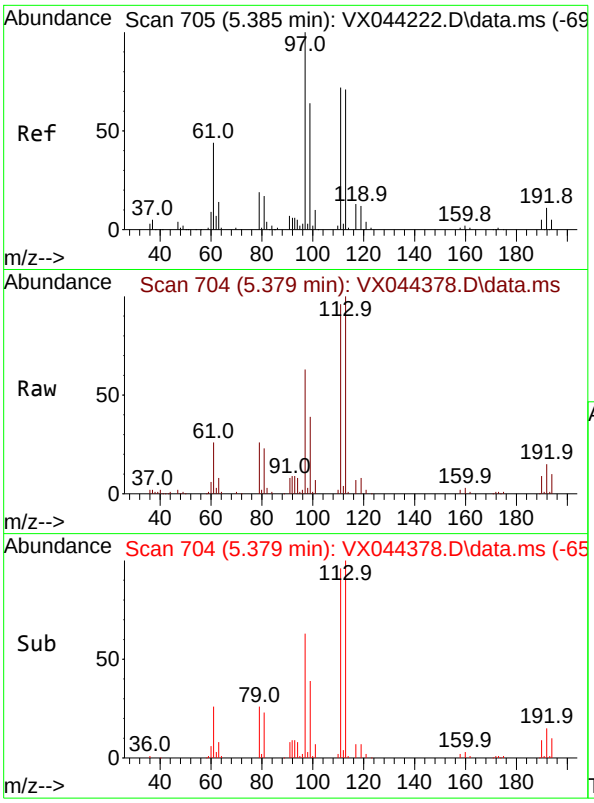


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:114 Resp: 272118

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	40.6
88	14.4	0.0	31.8



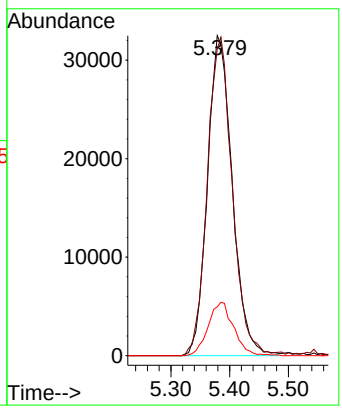


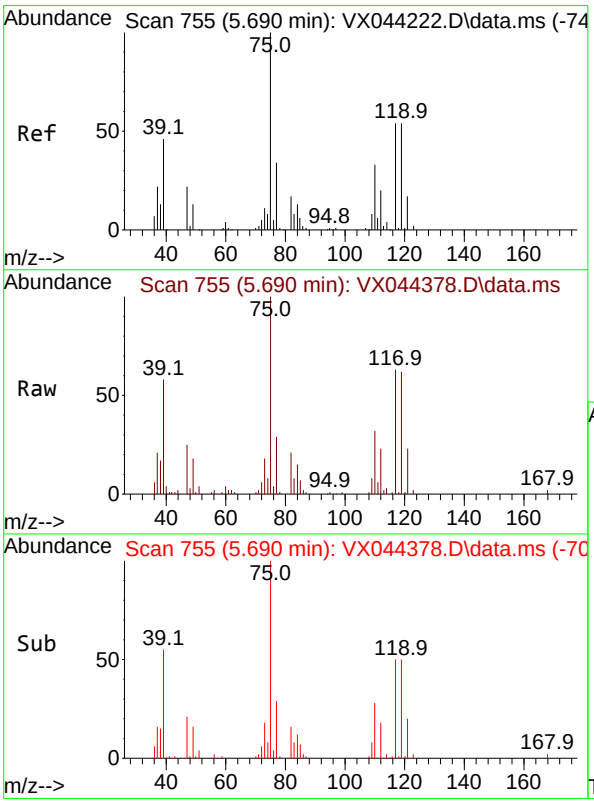
#35
Dibromofluoromethane
Concen: 50.526 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:113 Resp: 95224

Ion	Ratio	Lower	Upper
113	100		
111	100.0	80.4	120.6
192	17.2	13.3	19.9

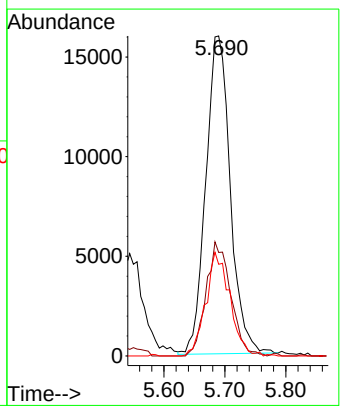


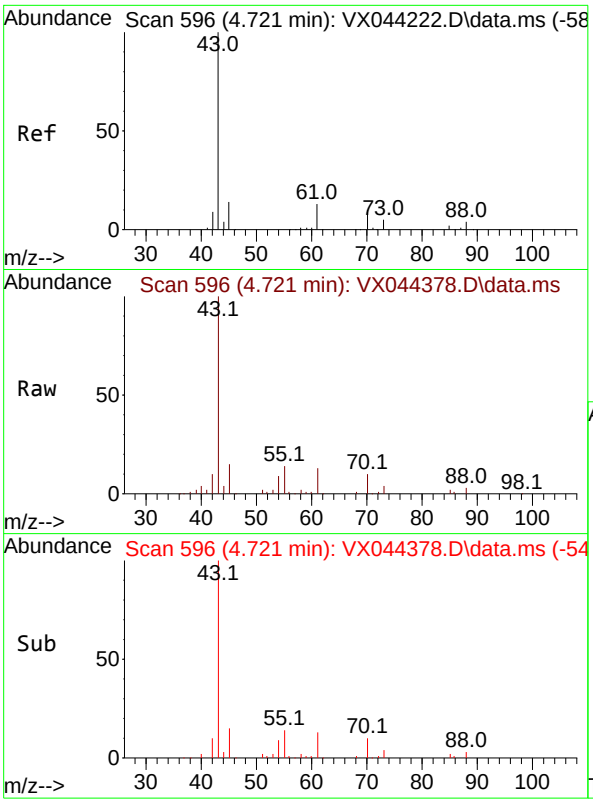


#36
1,1-Dichloropropene
Concen: 18.284 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 44543

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.3	51.7
77	32.2	25.4	38.0



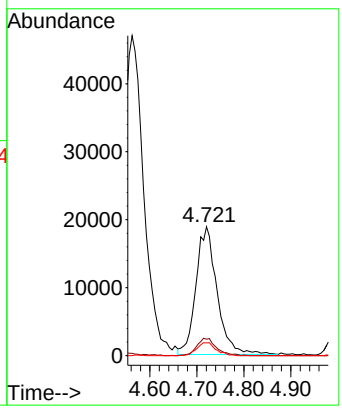


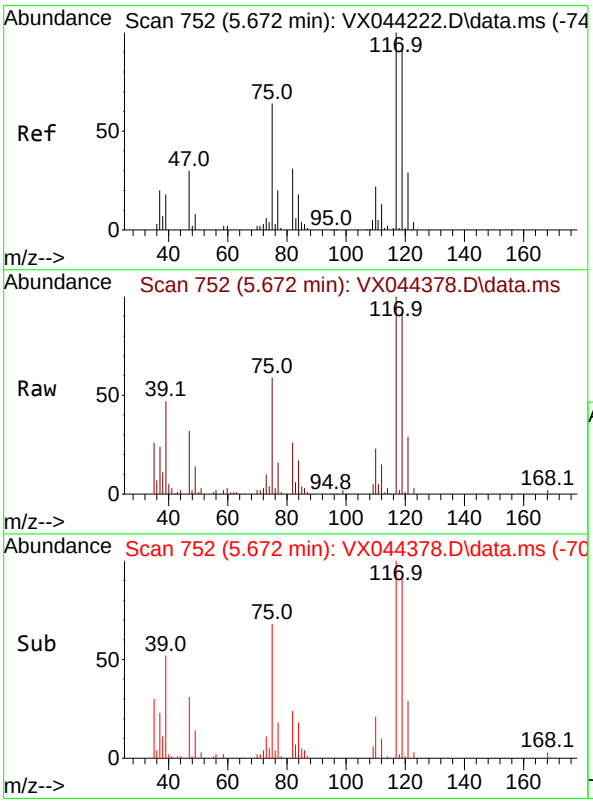
#37
Ethyl Acetate
Concen: 19.462 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 43 Resp: 58608

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.8	14.8
70	9.3	7.7	11.5

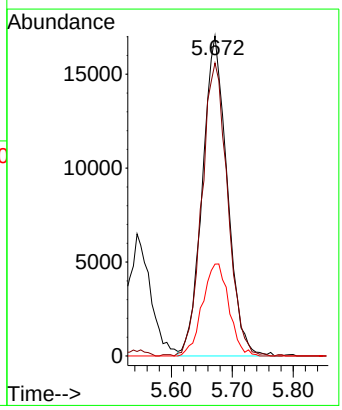


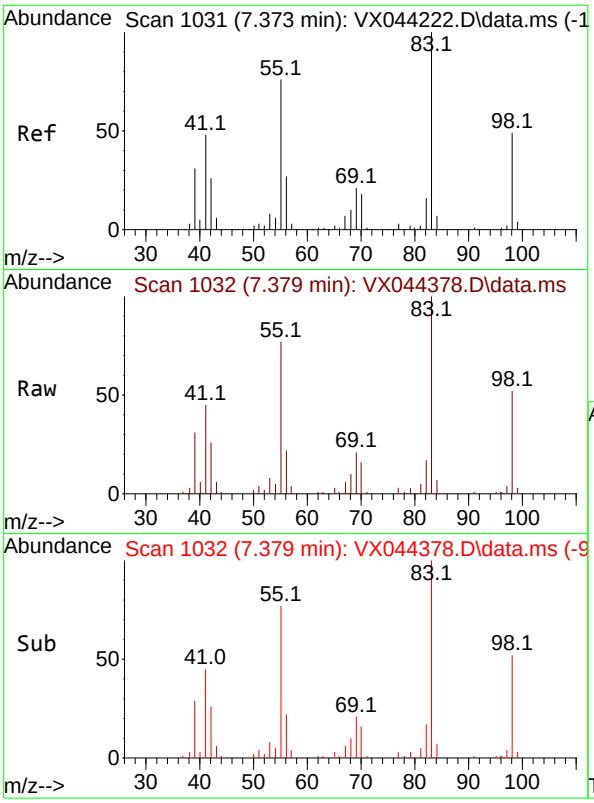


#38
Carbon Tetrachloride
Concen: 18.404 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:117 Resp: 48269

Ion	Ratio	Lower	Upper
117	100		
119	91.2	74.2	111.4
121	28.7	23.0	34.6



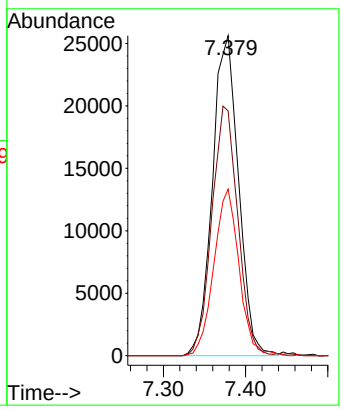


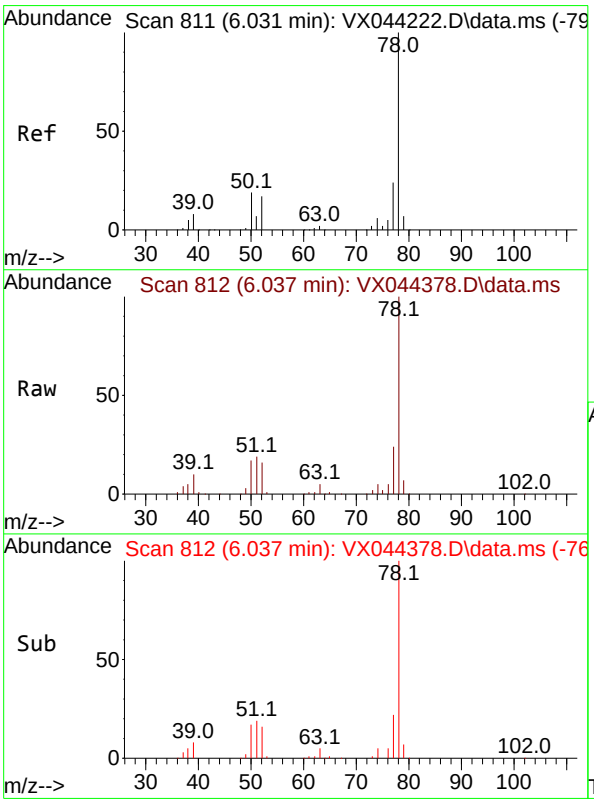
#39
Methylcyclohexane
Concen: 19.402 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 83 Resp: 56507

Ion	Ratio	Lower	Upper
83	100		
55	76.5	60.7	91.1
98	52.0	38.9	58.3

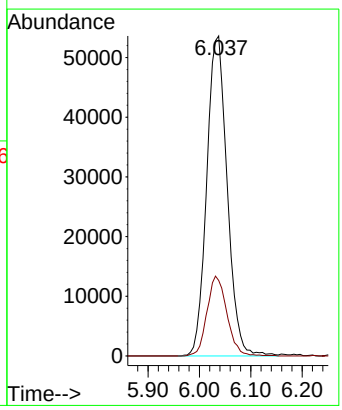


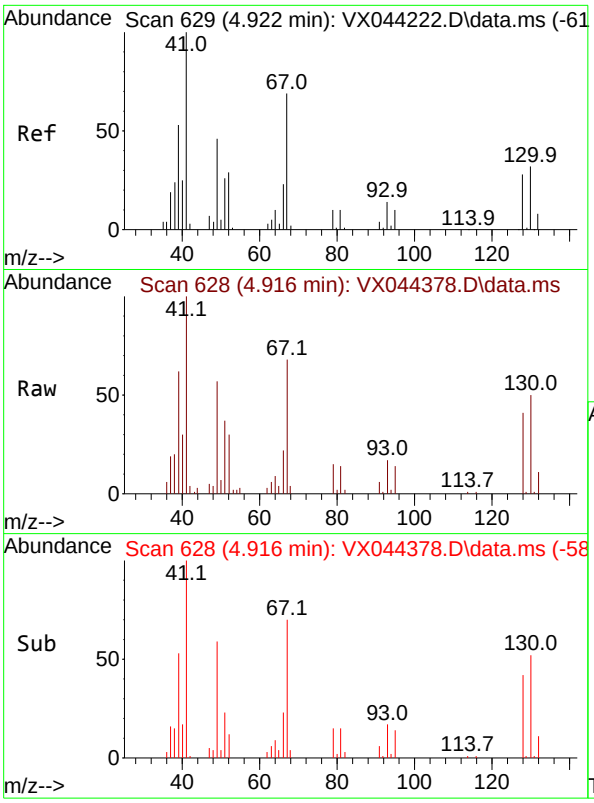


#40
Benzene
Concen: 20.060 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 78 Resp: 148380

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9



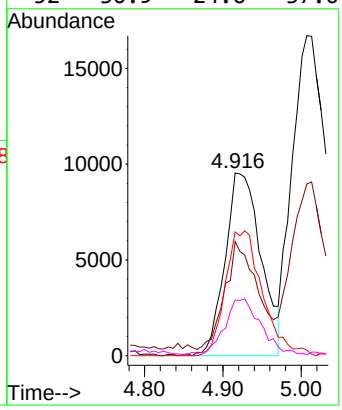


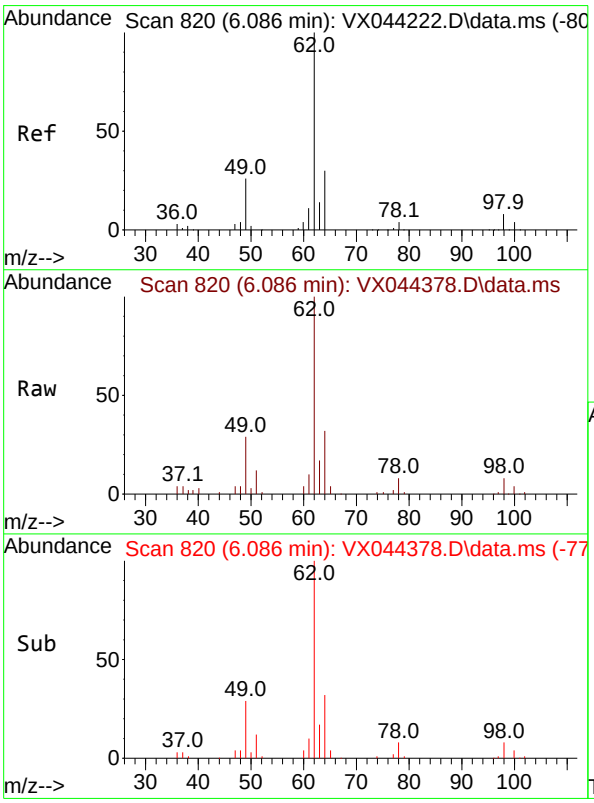
#41
Methacrylonitrile
Concen: 19.075 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 41 Resp: 30502

Ion	Ratio	Lower	Upper
41	100		
39	52.9	44.2	66.4
67	70.3	57.2	85.8
52	30.9	24.6	37.0

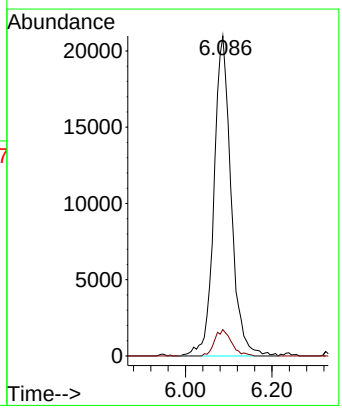


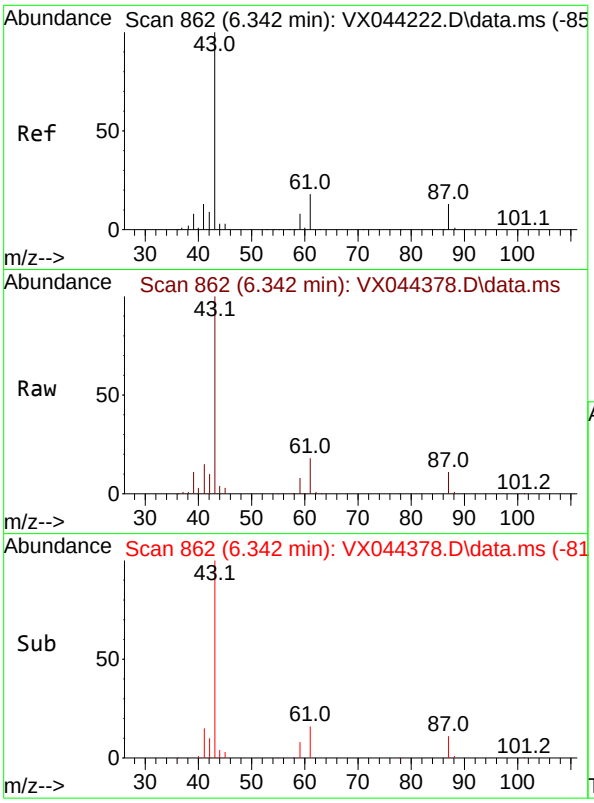


#42
1,2-Dichloroethane
Concen: 18.905 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 62 Resp: 57603

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	15.8



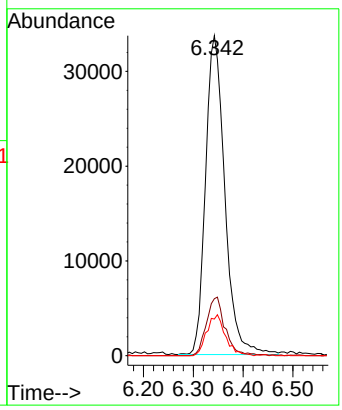


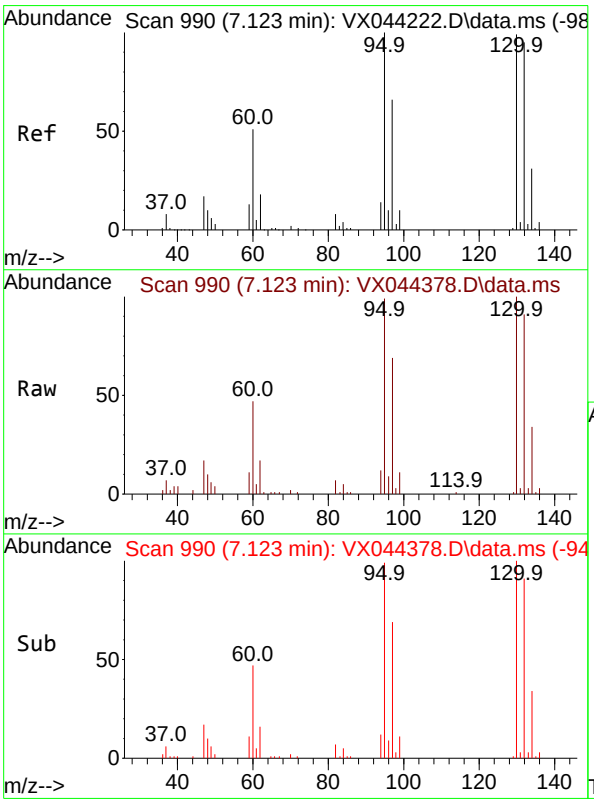
#43
Isopropyl Acetate
Concen: 19.169 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 43 Resp: 90225

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.2	21.2
87	12.4	10.2	15.2

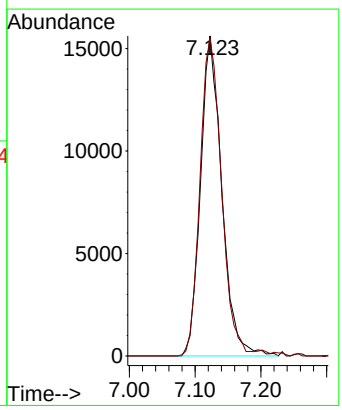


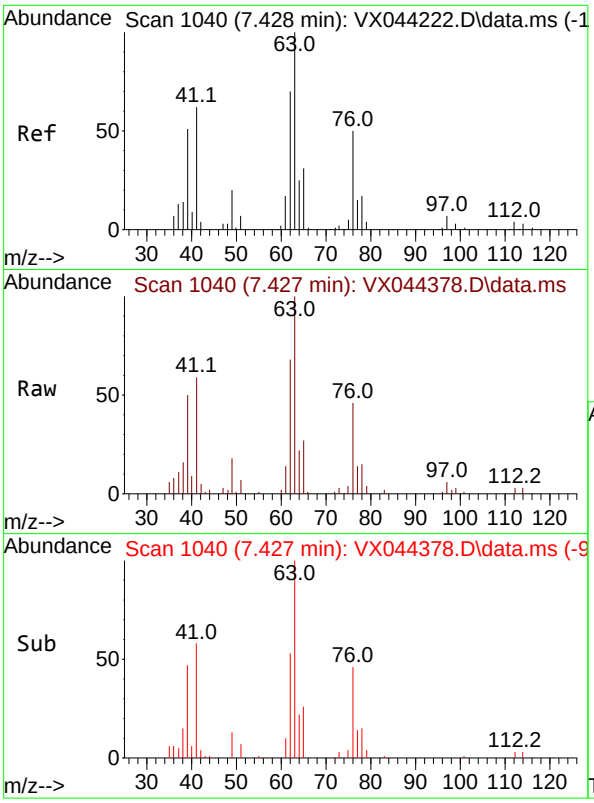


#44
Trichloroethene
Concen: 19.056 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:130 Resp: 35150

Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	201.4



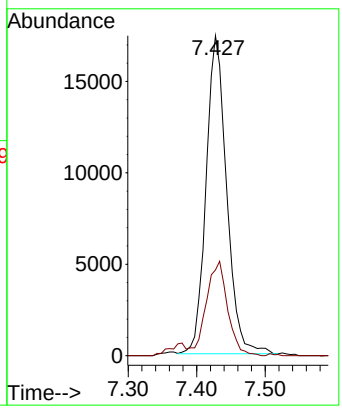


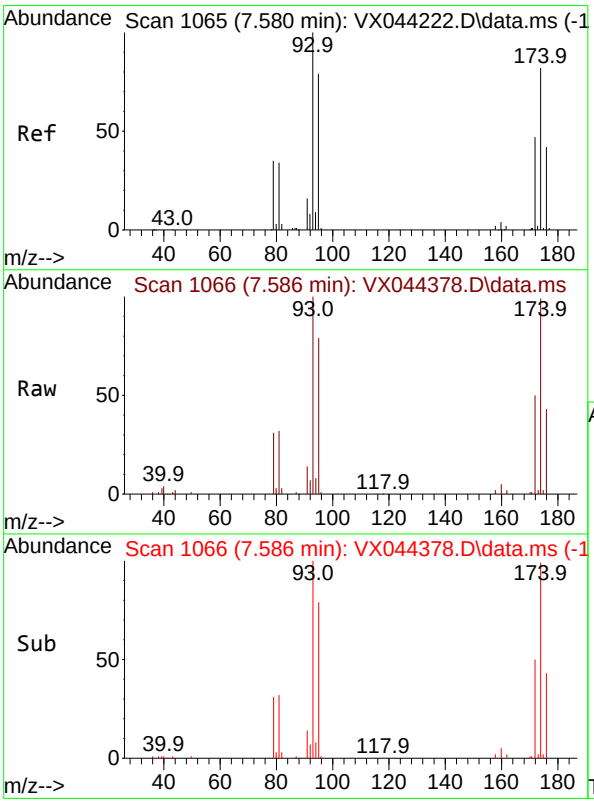
#45
1,2-Dichloropropane
Concen: 19.250 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 63 Resp: 36377

Ion	Ratio	Lower	Upper
63	100		
65	26.6	24.6	37.0

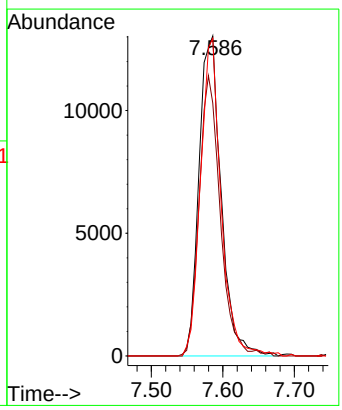


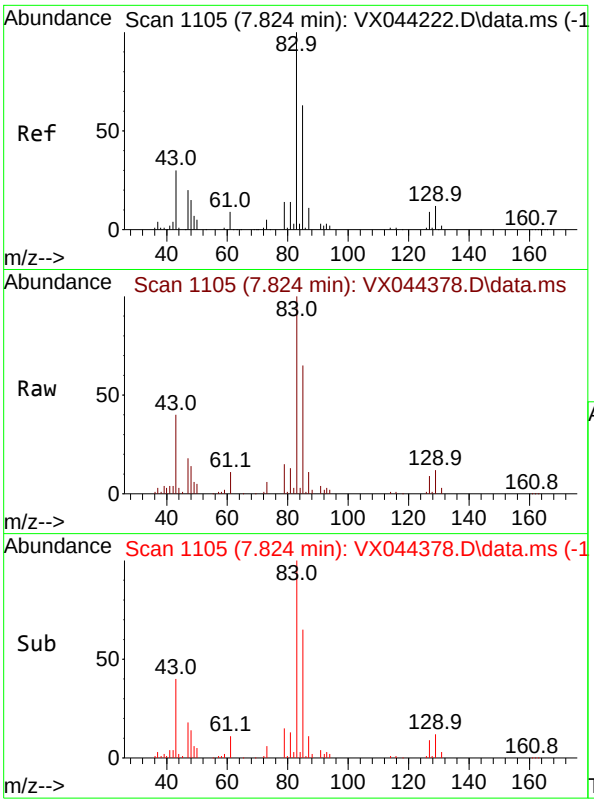


#46
Dibromomethane
Concen: 19.105 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 93 Resp: 28009

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.4	98.2
174	92.5	67.9	101.9



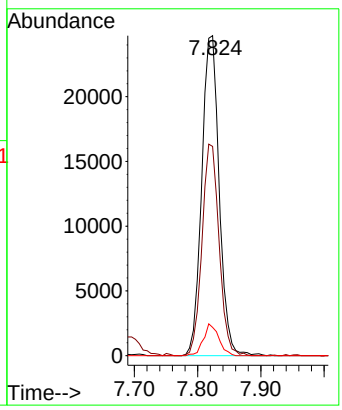


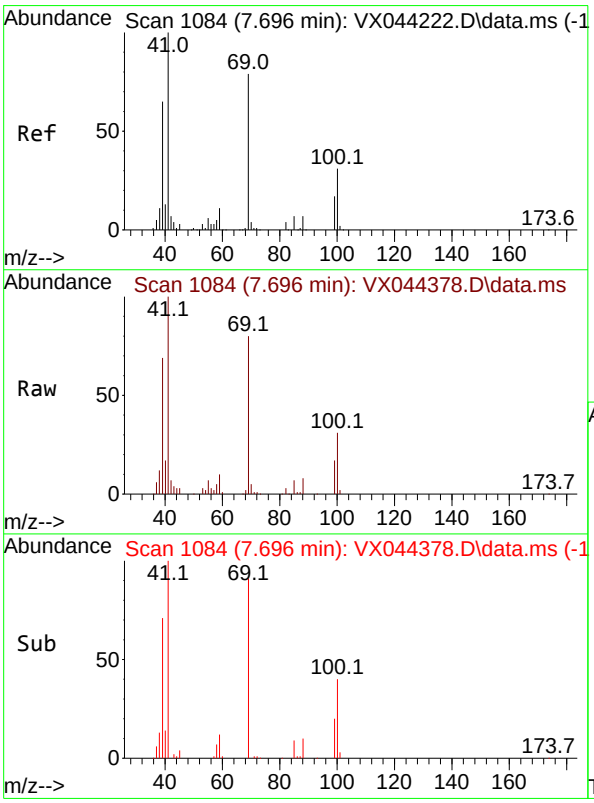
#47
Bromodichloromethane
Concen: 18.757 ug/l
RT: 7.824 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 83 Resp: 47492

Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.6	75.8
127	8.9	7.3	10.9

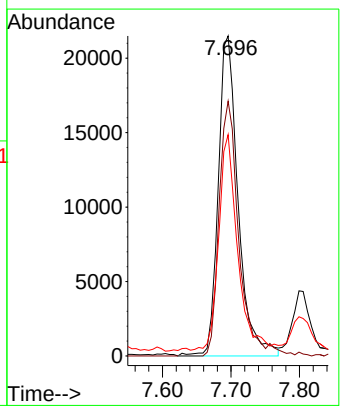


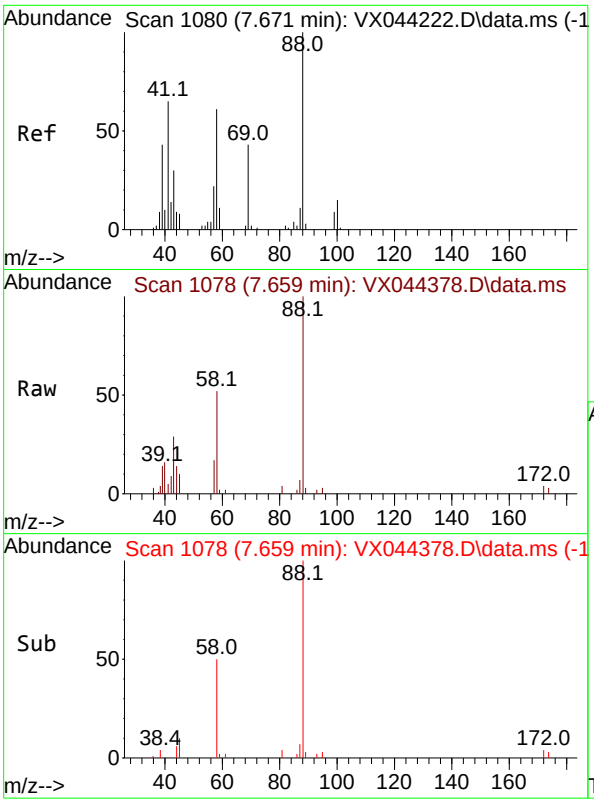


#48
Methyl methacrylate
Concen: 18.917 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 41 Resp: 43221

Ion	Ratio	Lower	Upper
41	100		
69	79.2	62.4	93.6
39	63.8	53.3	79.9



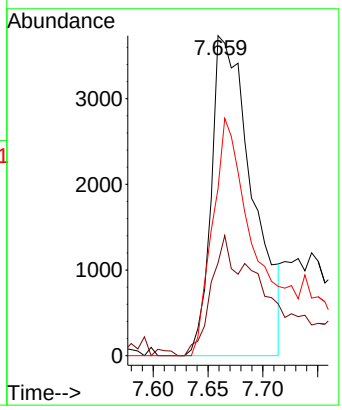


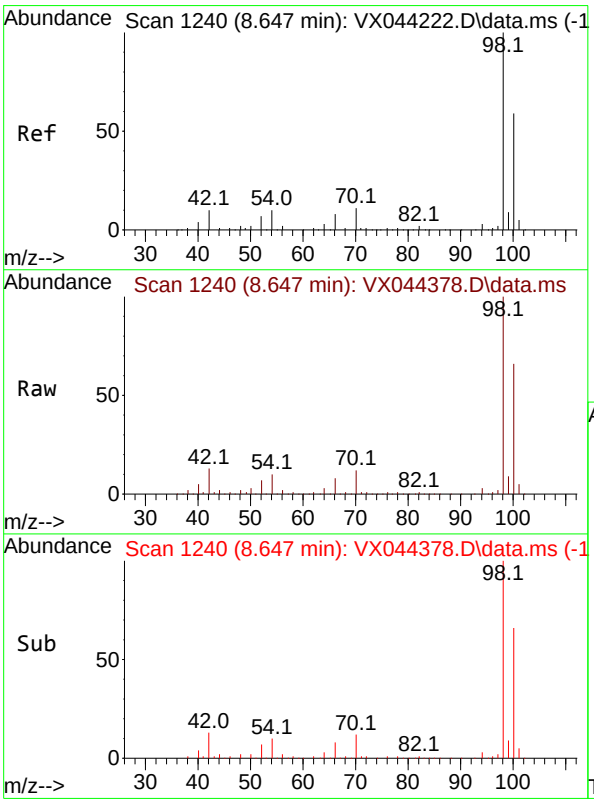
#49
1,4-Dioxane
Concen: 257.250 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 88 Resp: 9745

Ion	Ratio	Lower	Upper
88	100		
43	22.4	27.1	40.7#
58	79.0	41.0	61.4#

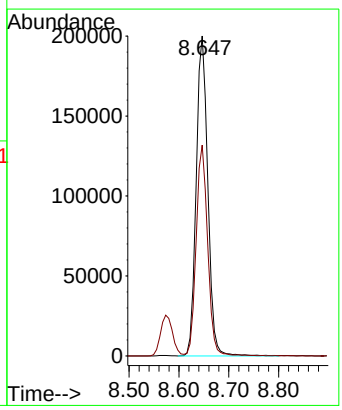


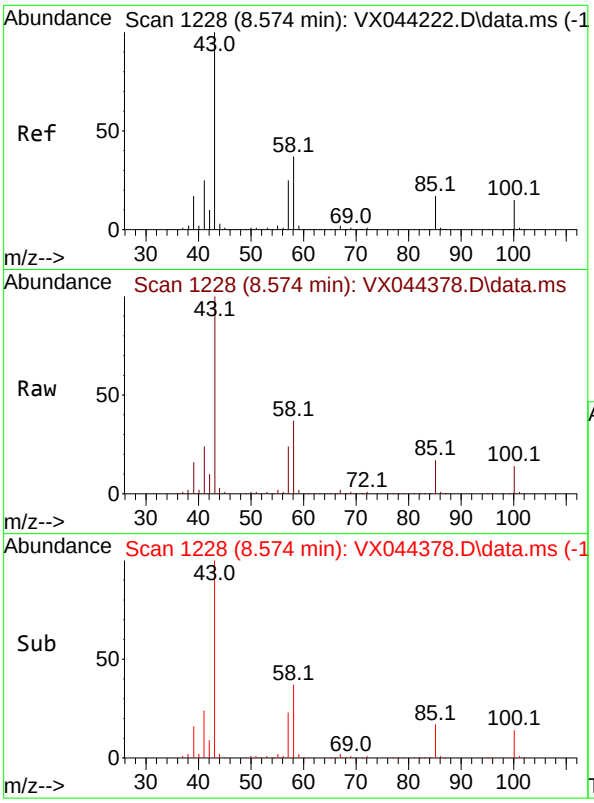


#50
Toluene-d8
Concen: 50.811 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 98 Resp: 323070

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3



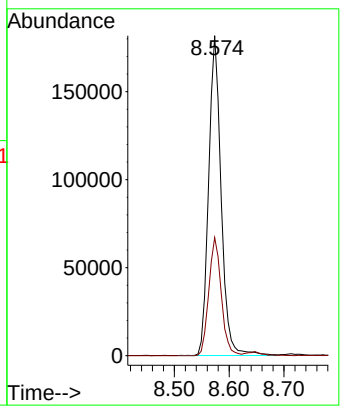


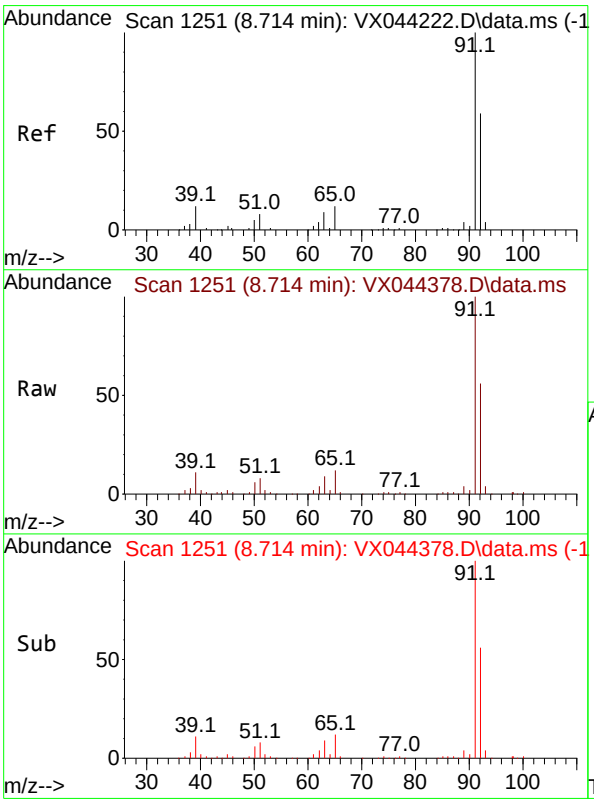
#51
4-Methyl-2-Pentanone
Concen: 94.787 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 43 Resp: 286862

Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.4	44.0

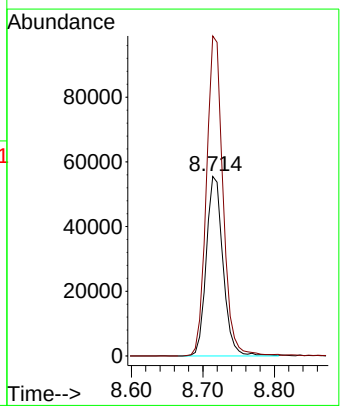


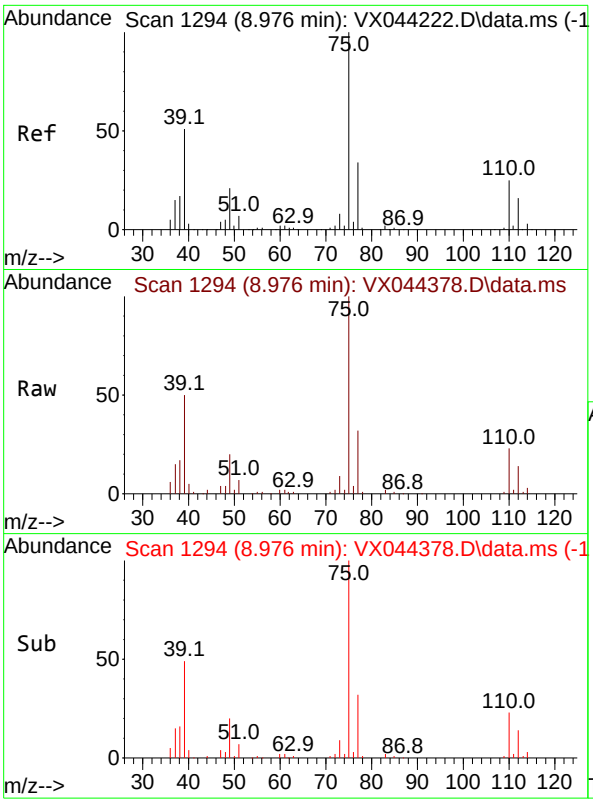


#52
Toluene
Concen: 19.428 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 92 Resp: 90242

Ion	Ratio	Lower	Upper
92	100		
91	176.6	137.0	205.6



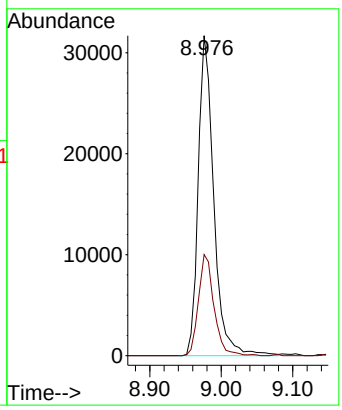


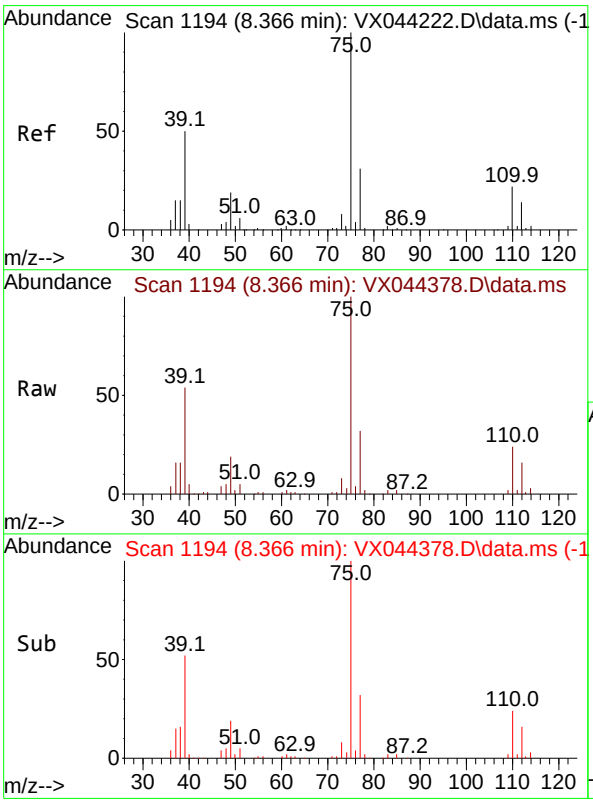
#53
t-1,3-Dichloropropene
Concen: 18.774 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 75 Resp: 47729

Ion	Ratio	Lower	Upper
75	100		
77	31.6	27.2	40.8

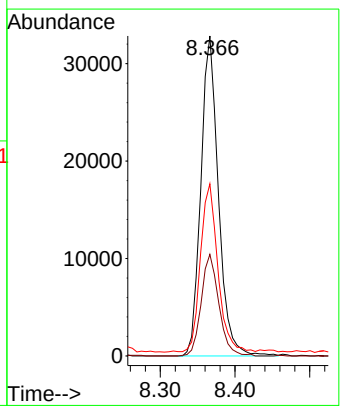


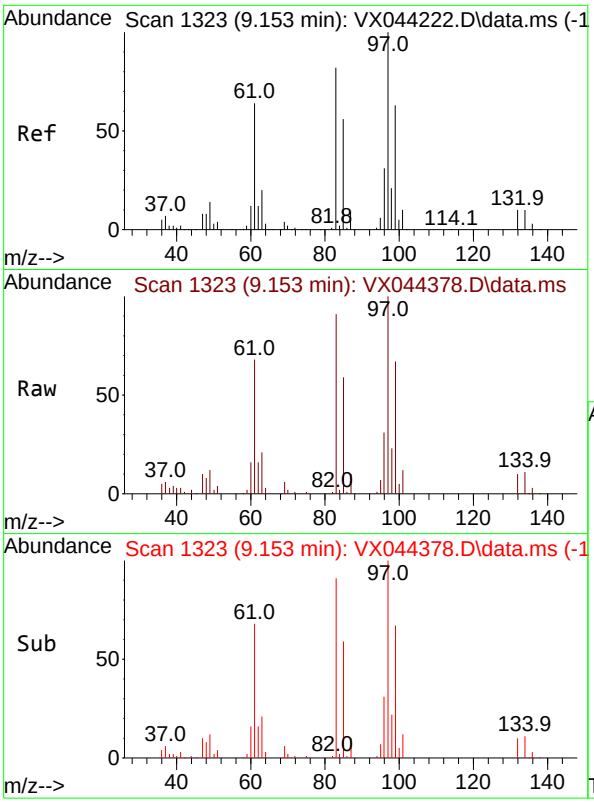


#54
cis-1,3-Dichloropropene
Concen: 19.485 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 53718

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.7	37.1
39	52.5	40.3	60.5



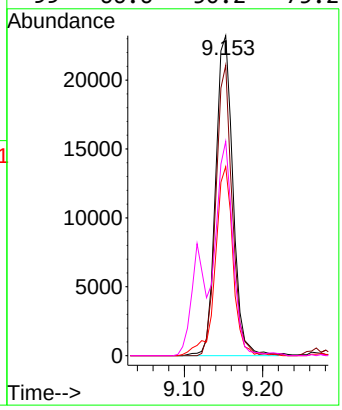


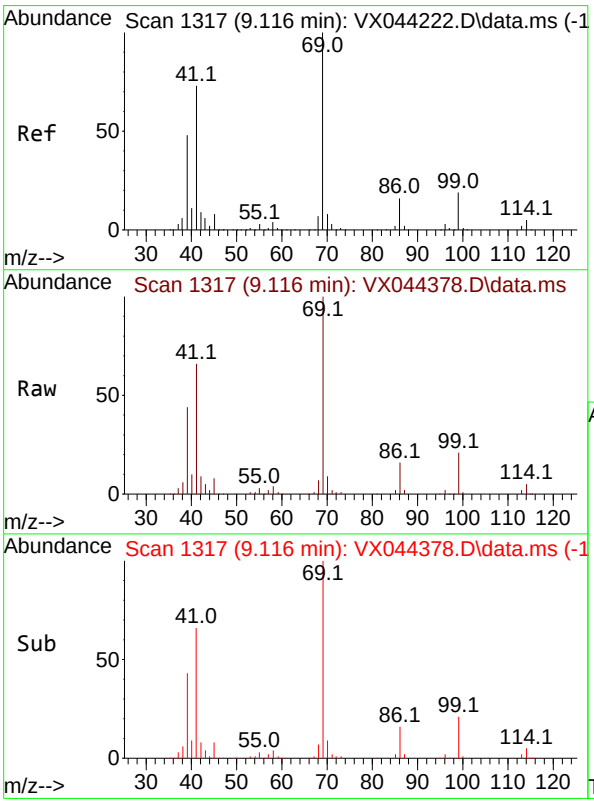
#55
1,1,2-Trichloroethane
Concen: 19.348 ug/l
RT: 9.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 97 Resp: 35702

Ion	Ratio	Lower	Upper
97	100		
83	90.7	65.3	97.9
85	59.0	44.6	67.0
99	66.6	50.2	75.2

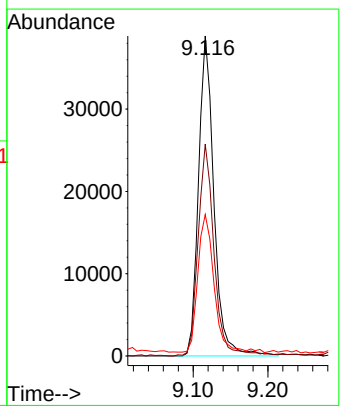


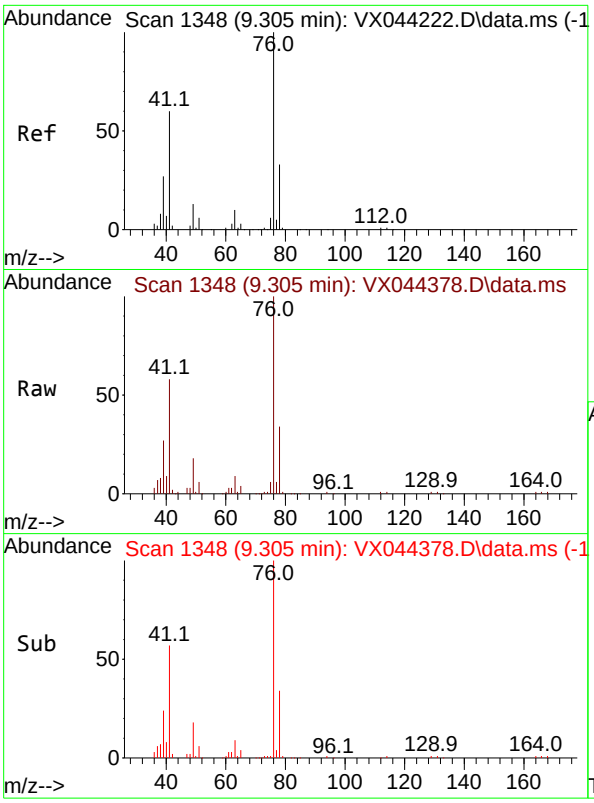


#56
Ethyl methacrylate
Concen: 19.118 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 69 Resp: 55693

Ion	Ratio	Lower	Upper
69	100		
41	69.3	56.6	85.0
39	44.6	37.4	56.0



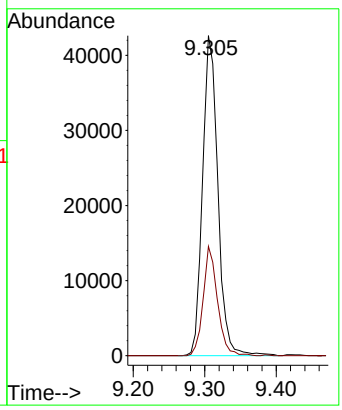


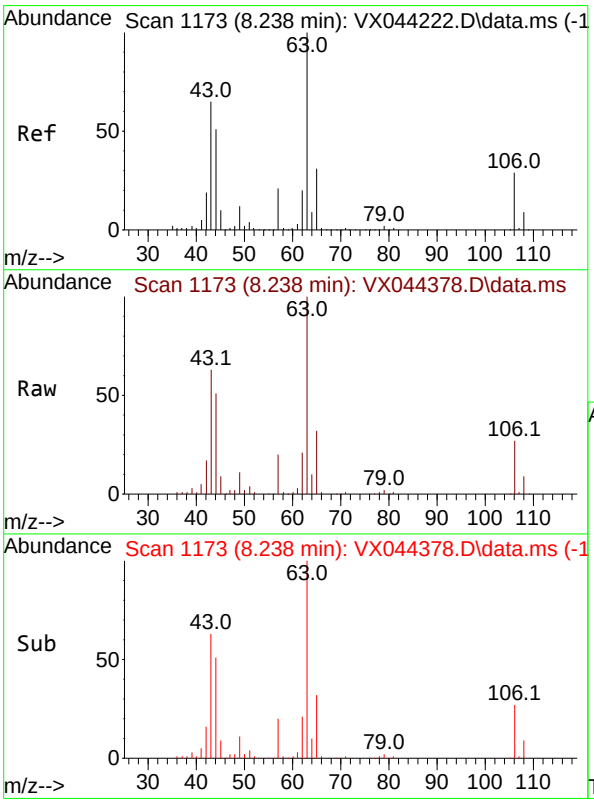
#57
1,3-Dichloropropane
Concen: 19.724 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 76 Resp: 63353

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.5	39.7

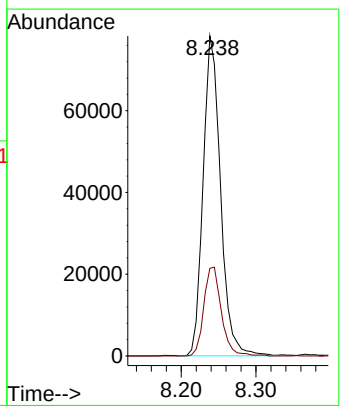


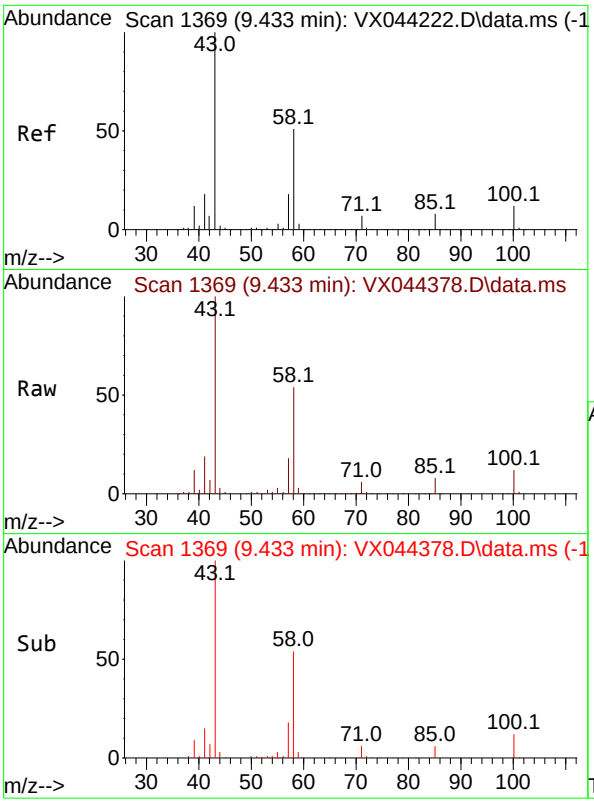


#58
2-Chloroethyl Vinyl ether
Concen: 86.145 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 63 Resp: 126572

Ion	Ratio	Lower	Upper
63	100		
106	28.0	22.8	34.2



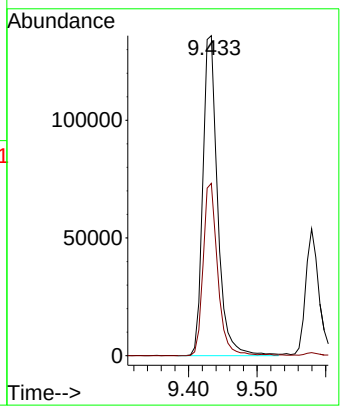


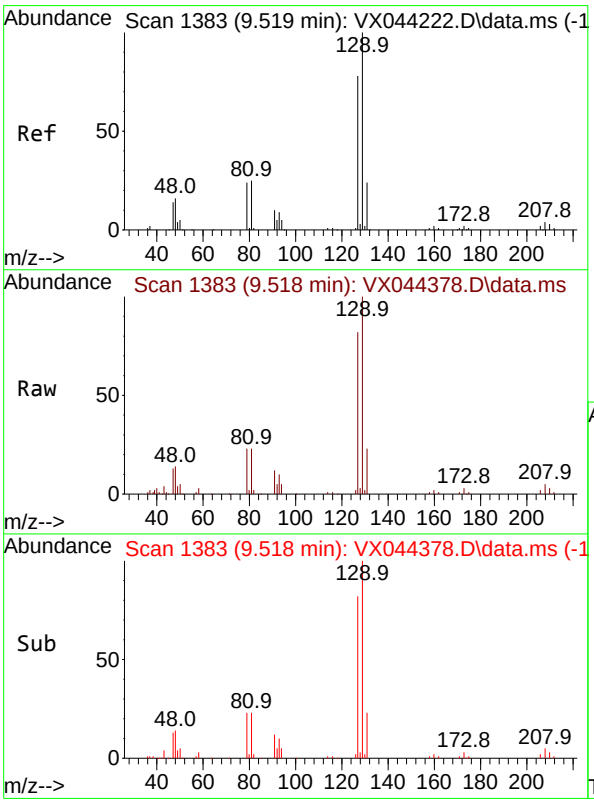
#59
2-Hexanone
Concen: 93.265 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 43 Resp: 204304

Ion	Ratio	Lower	Upper
43	100		
58	52.7	25.7	77.0

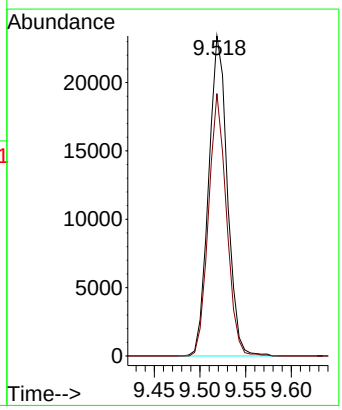


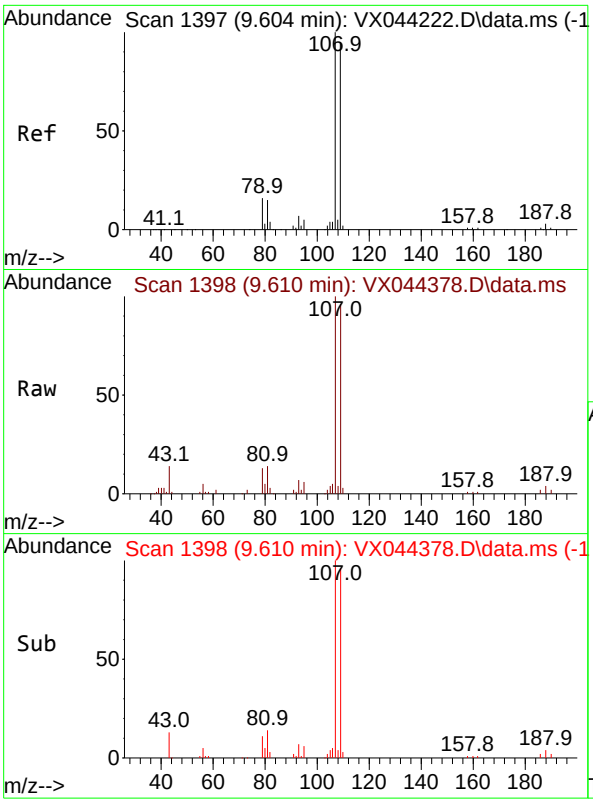


#60
Dibromochloromethane
Concen: 18.320 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:129 Resp: 33259

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.5	115.3



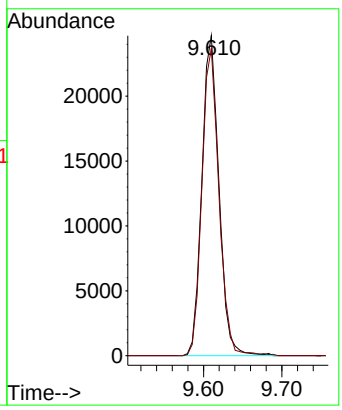


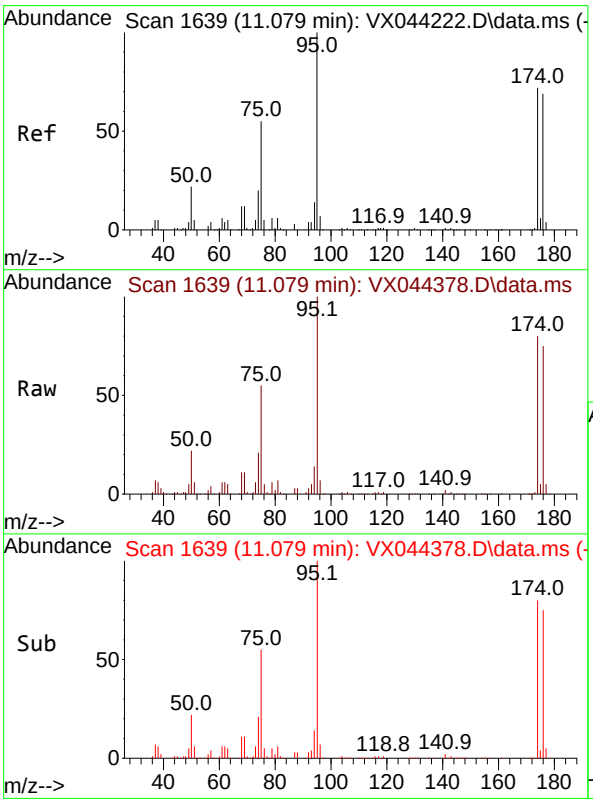
#61
1,2-Dibromoethane
Concen: 19.855 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:107 Resp: 37294

Ion	Ratio	Lower	Upper
107	100		
109	95.8	77.0	115.4

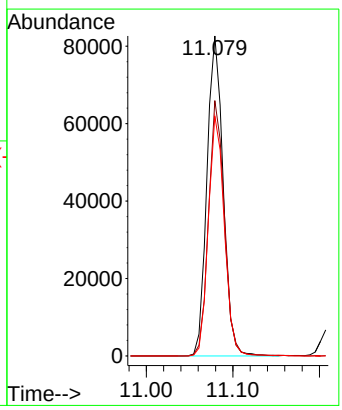


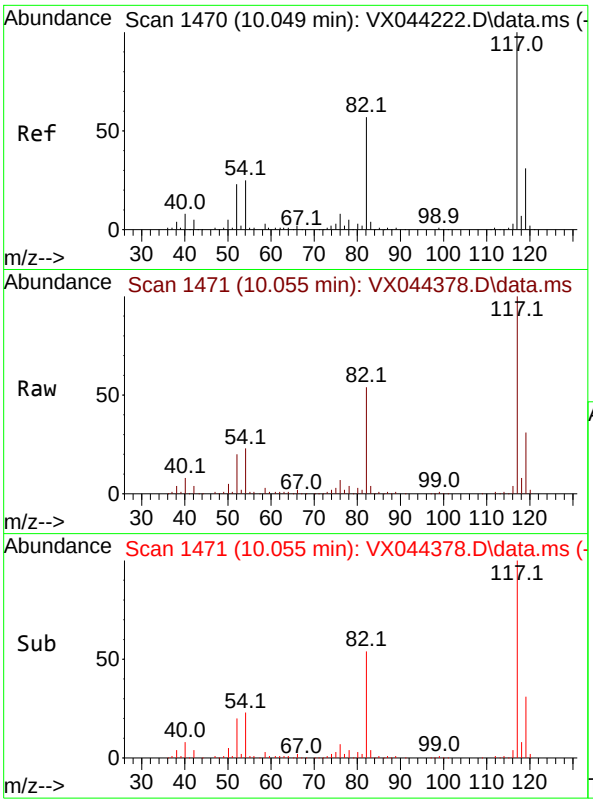


#62
4-Bromofluorobenzene
Concen: 48.171 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 95 Resp: 107025

Ion	Ratio	Lower	Upper
95	100		
174	78.5	0.0	145.8
176	74.2	0.0	137.8



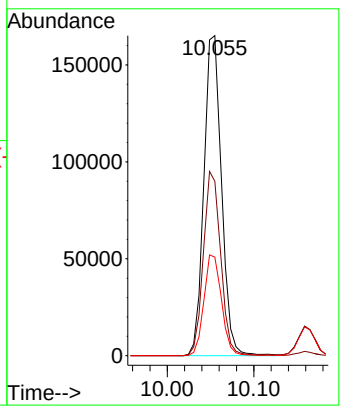


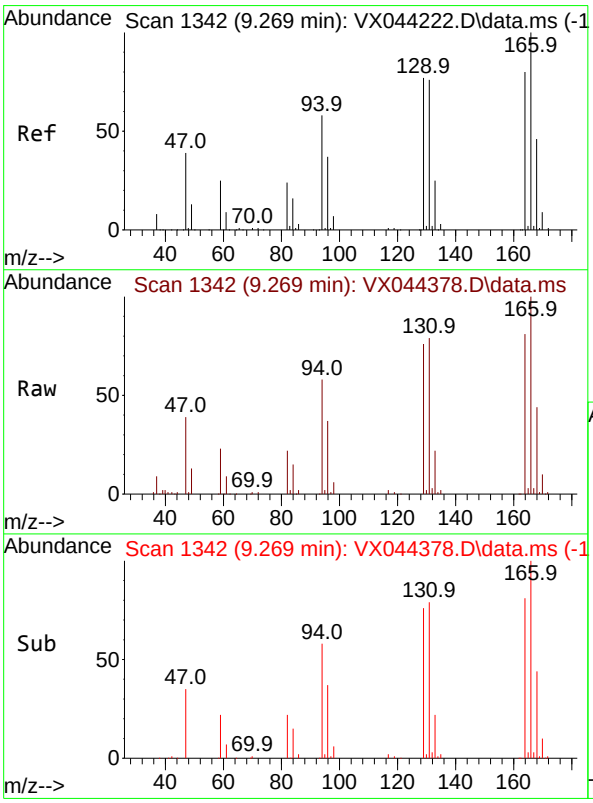
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:117 Resp: 233700

Ion	Ratio	Lower	Upper
117	100		
82	54.5	45.8	68.8
119	30.8	25.0	37.4

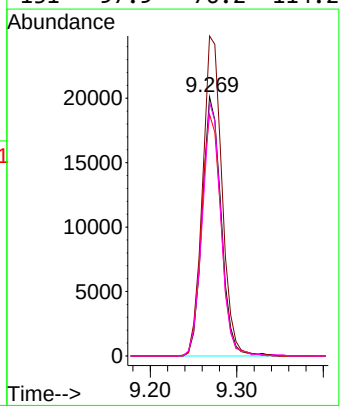


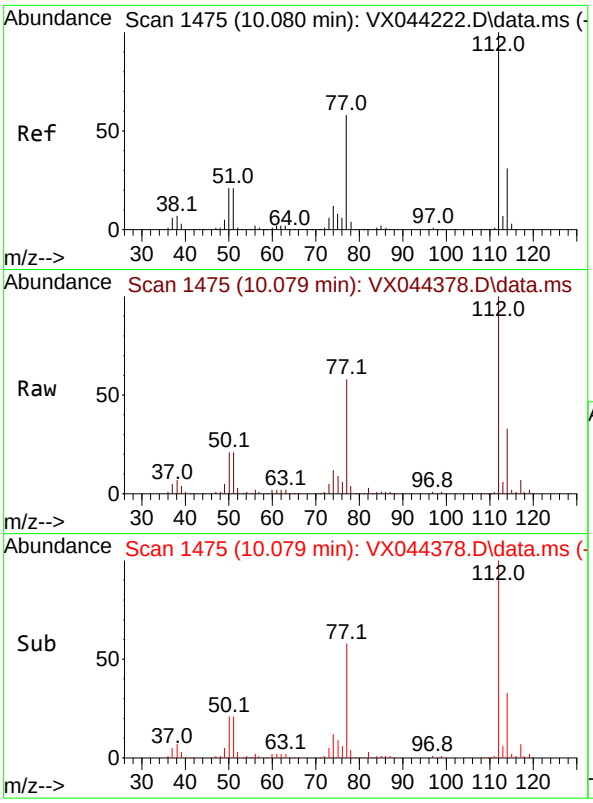


#64
Tetrachloroethene
Concen: 19.589 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:164 Resp: 30384

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.4	150.6
129	93.3	77.2	115.8
131	97.9	76.2	114.2



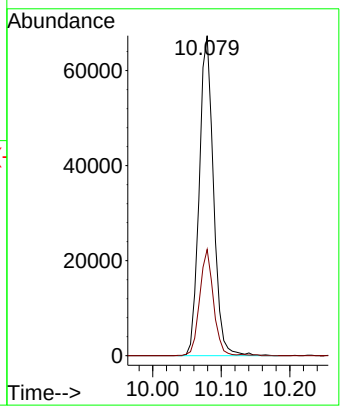


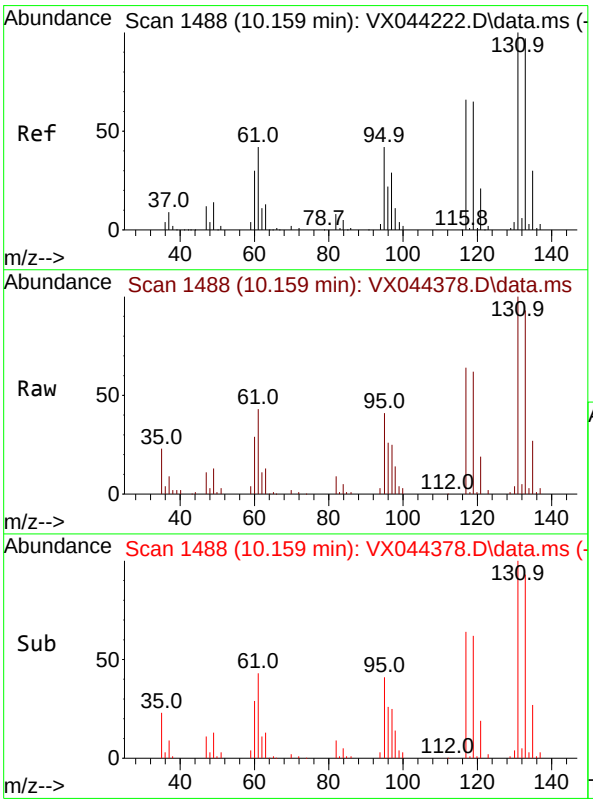
#65
Chlorobenzene
Concen: 19.498 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:112 Resp: 97639

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.0	37.6

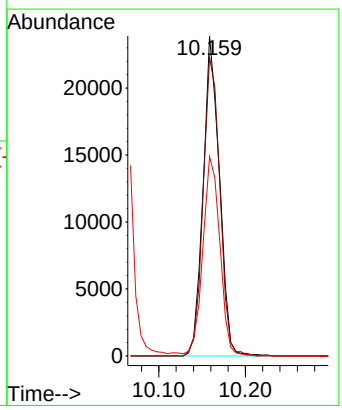


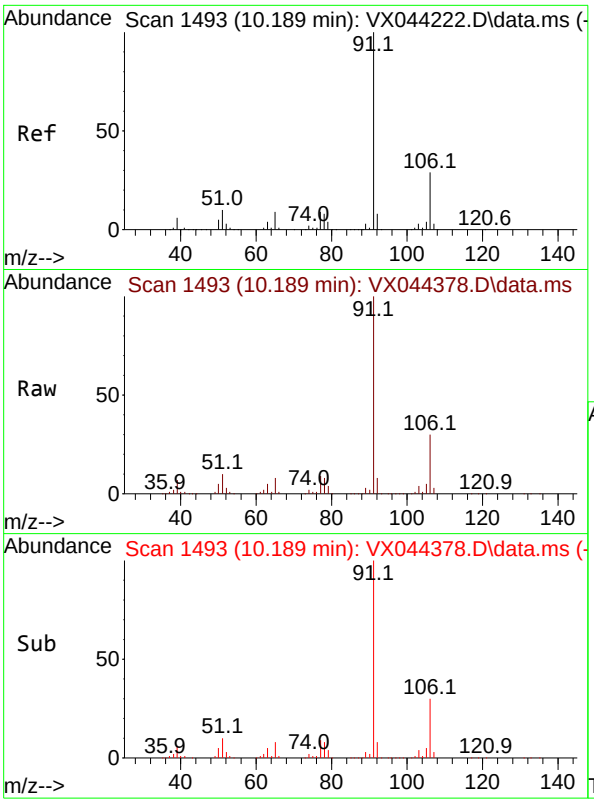


#66
1,1,1,2-Tetrachloroethane
Concen: 19.405 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:131 Resp: 31230

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.3	141.8
119	65.2	31.6	95.0



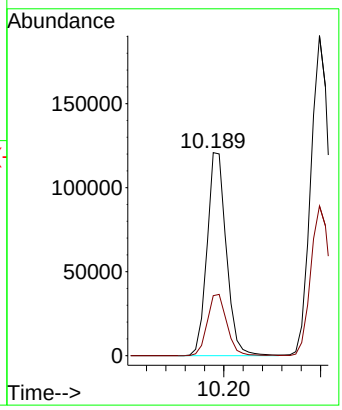


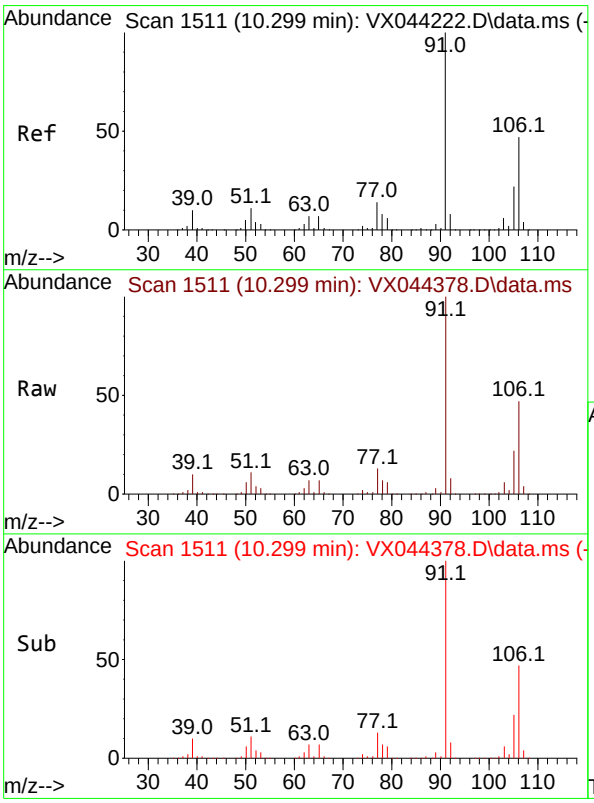
#67
Ethyl Benzene
Concen: 19.327 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 91 Resp: 167223

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.5	35.3

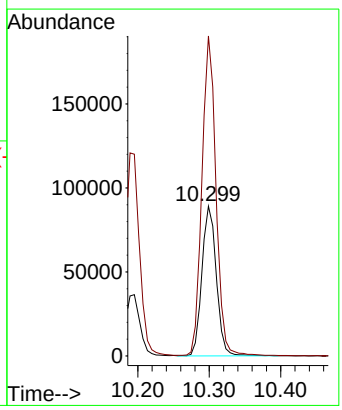


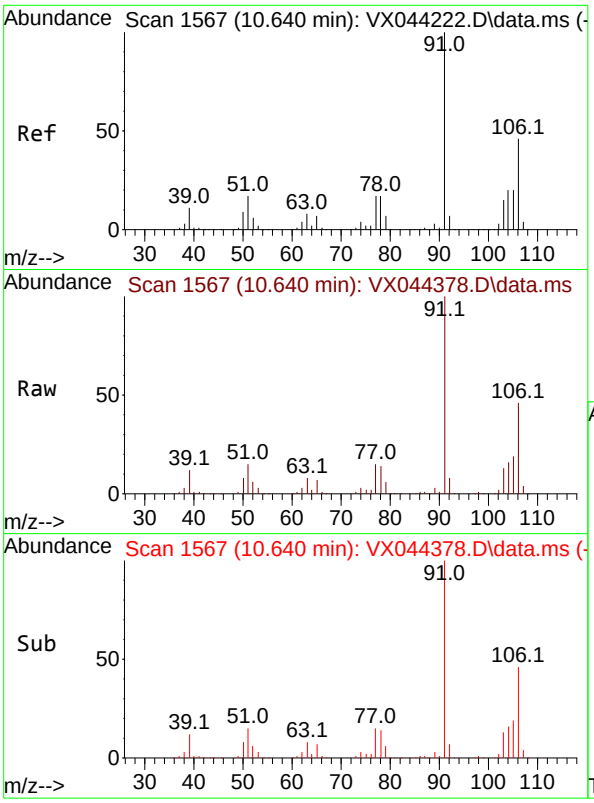


#68
m/p-Xylenes
Concen: 39.322 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:106 Resp: 124845

Ion	Ratio	Lower	Upper
106	100		
91	208.9	170.2	255.2



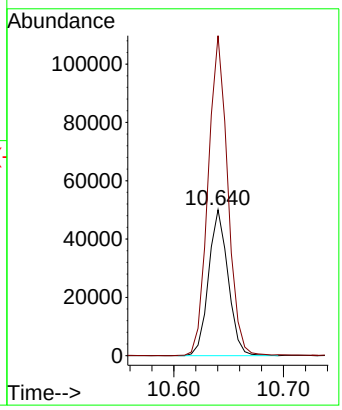


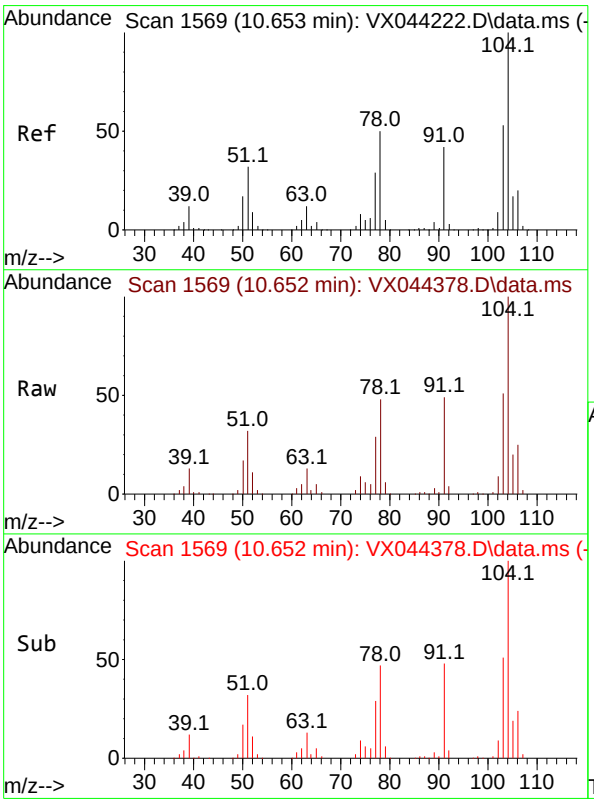
#69
o-Xylene
Concen: 19.219 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:106 Resp: 61740

Ion	Ratio	Lower	Upper
106	100		
91	221.6	112.3	337.0

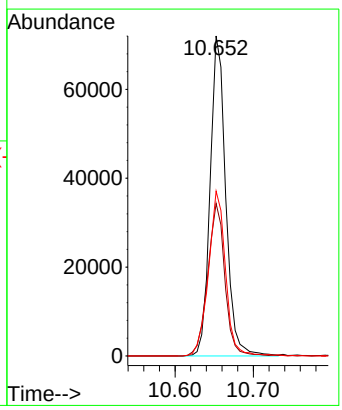


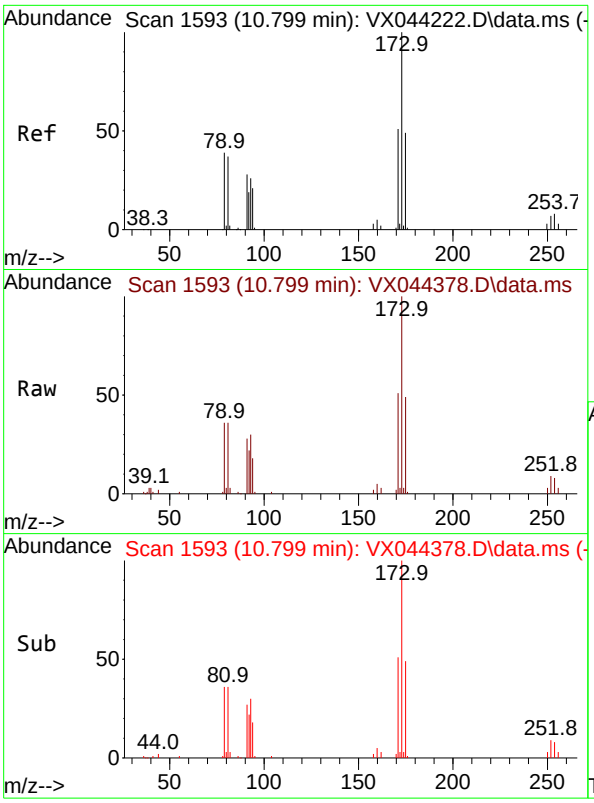


#70
Styrene
Concen: 19.373 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:104 Resp: 99766

Ion	Ratio	Lower	Upper
104	100		
78	52.2	44.6	67.0
103	56.3	45.4	68.0



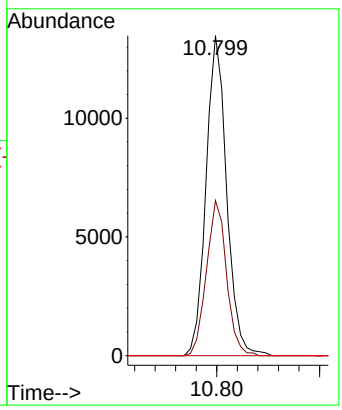


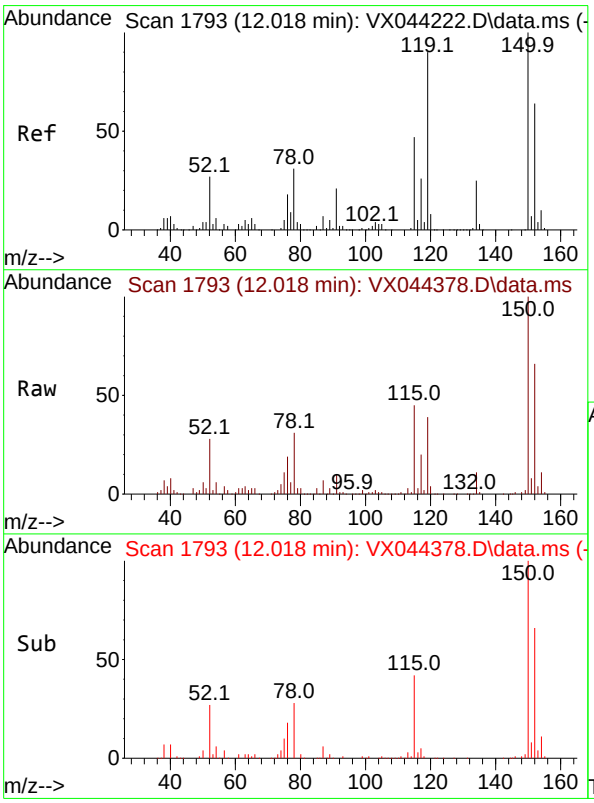
#71
Bromoform
Concen: 18.657 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:173 Resp: 18740

Ion	Ratio	Lower	Upper
173	100		
175	47.3	23.8	71.4
254	0.0	0.0	0.0

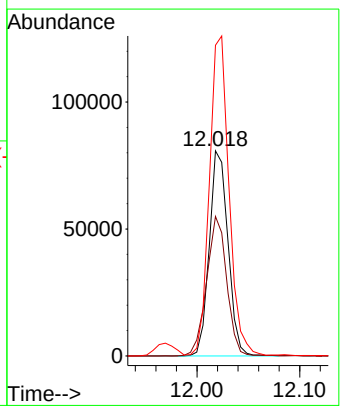


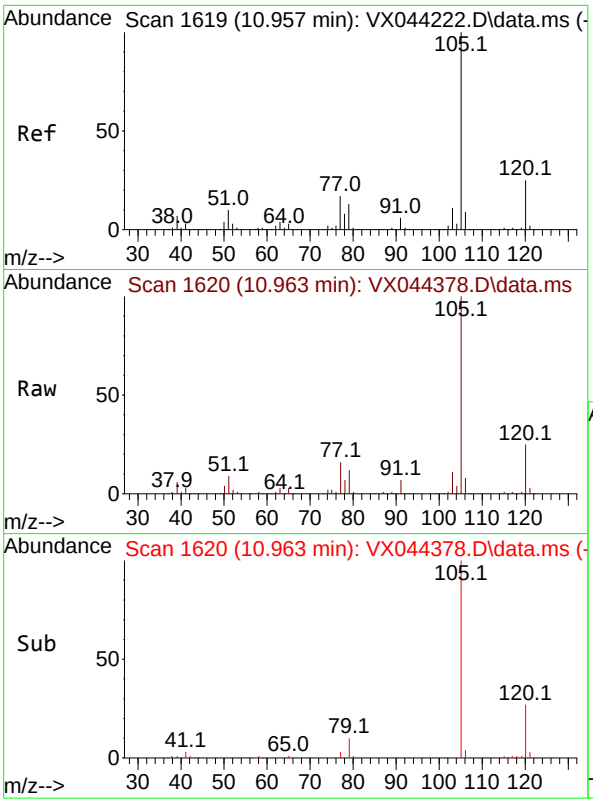


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:152 Resp: 101950

Ion	Ratio	Lower	Upper
152	100		
115	73.4	44.5	133.3
150	162.2	0.0	353.8



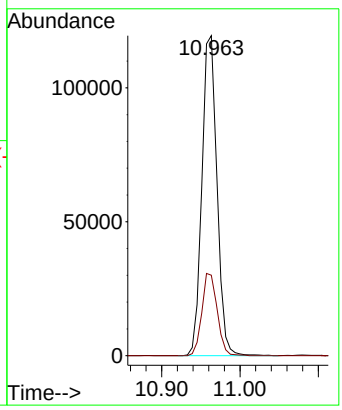


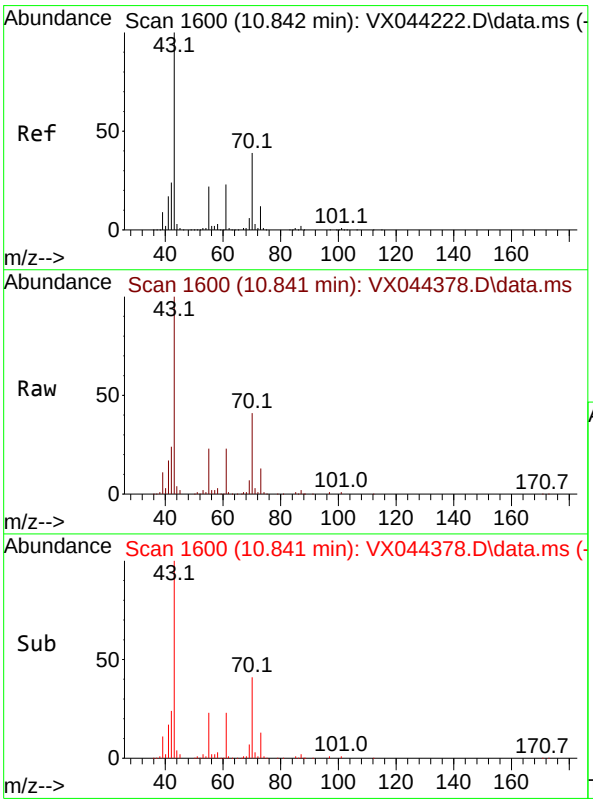
#73
Isopropylbenzene
Concen: 20.438 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:105 Resp: 159509

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.1	39.3

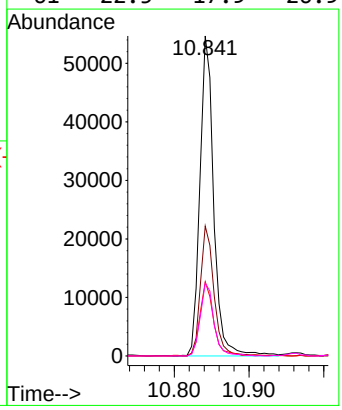


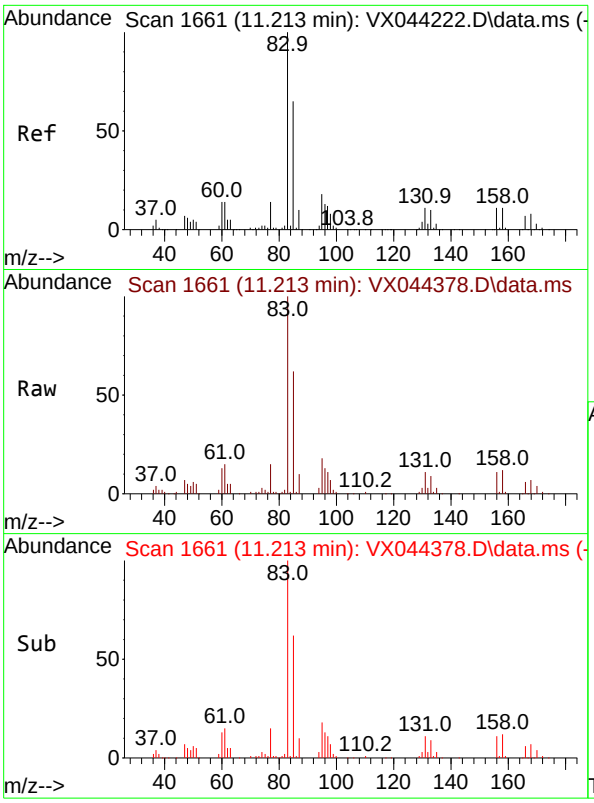


#74
N-amyl acetate
Concen: 19.483 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 43 Resp: 70274

Ion	Ratio	Lower	Upper
43	100		
70	40.0	31.9	47.9
55	22.7	17.9	26.9
61	22.5	17.9	26.9



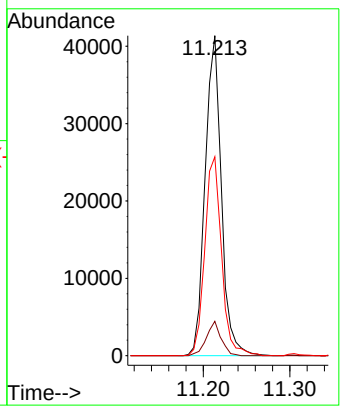


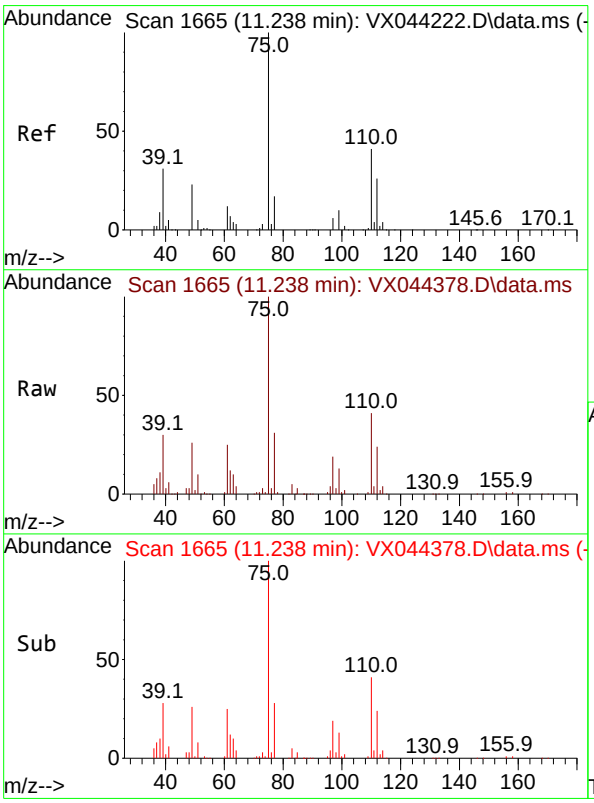
#75
1,1,2,2-Tetrachloroethane
Concen: 19.886 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 83 Resp: 53907

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.1	15.4
85	64.2	32.5	97.4

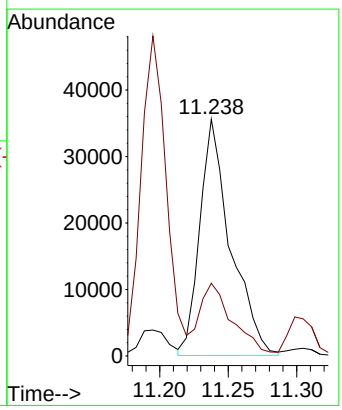


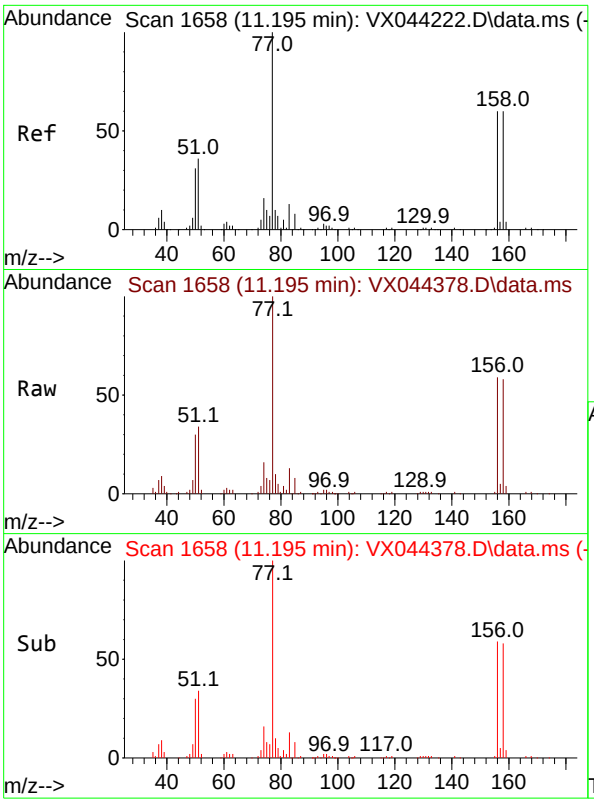


#76
1,2,3-Trichloropropane
Concen: 24.462 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 55682

Ion	Ratio	Lower	Upper
75	100		
77	33.3	20.9	62.7



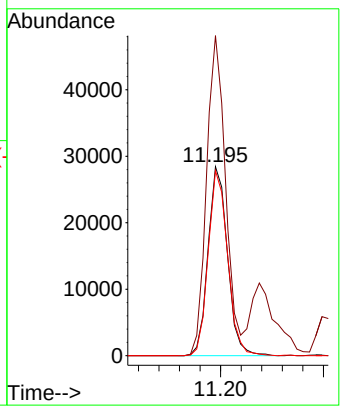


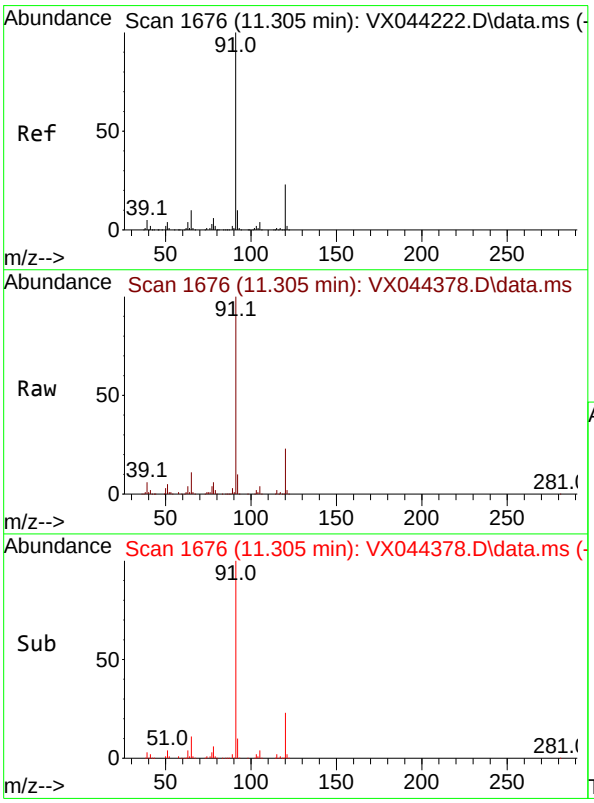
#77
Bromobenzene
Concen: 19.755 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:156 Resp: 37389

Ion	Ratio	Lower	Upper
156	100		
77	165.3	82.6	247.8
158	97.8	48.8	146.4

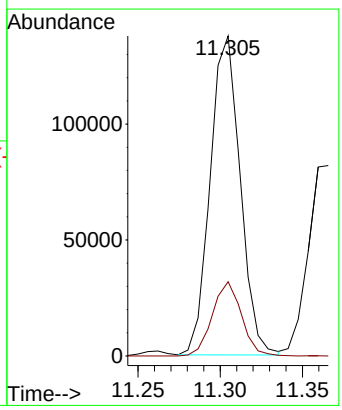


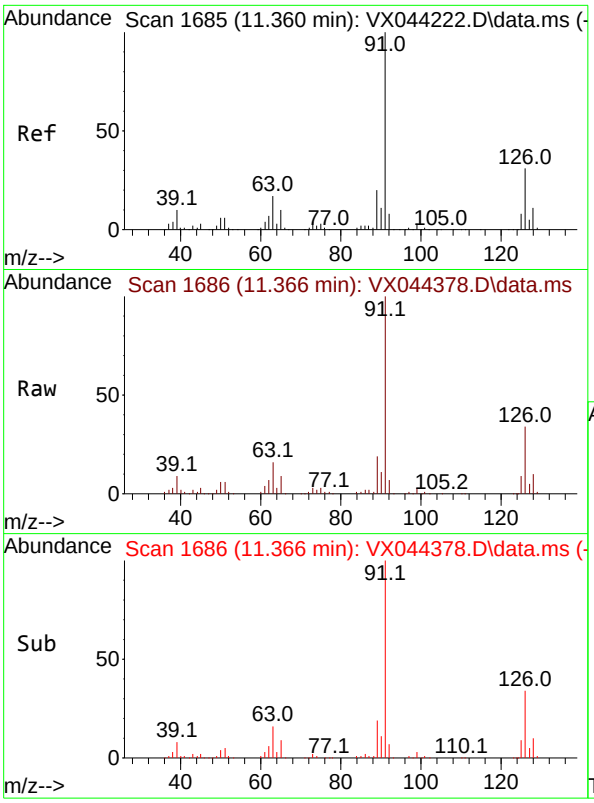


#78
n-propylbenzene
Concen: 20.292 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 91 Resp: 175046

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.0	33.0



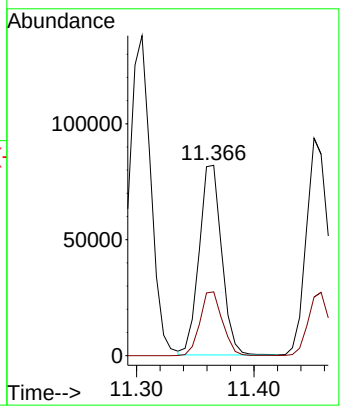


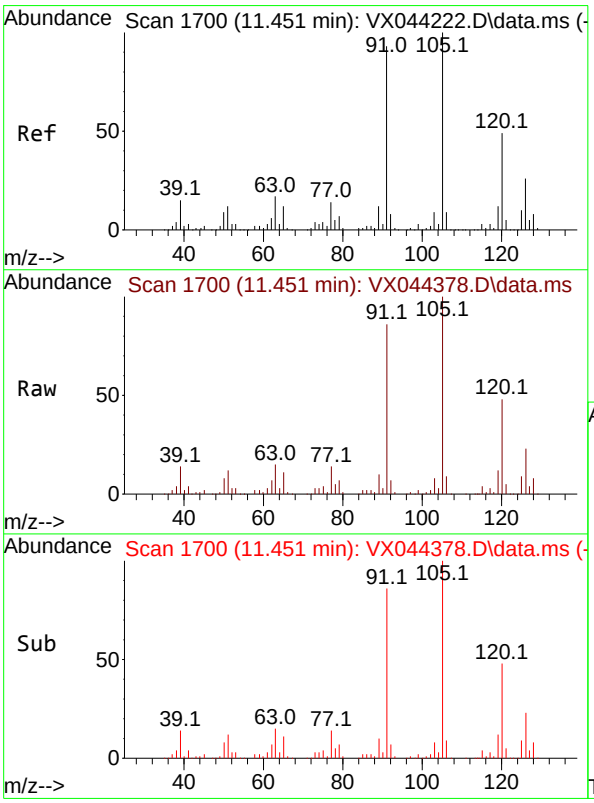
#79
2-Chlorotoluene
Concen: 19.557 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 91 Resp: 109103

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.1

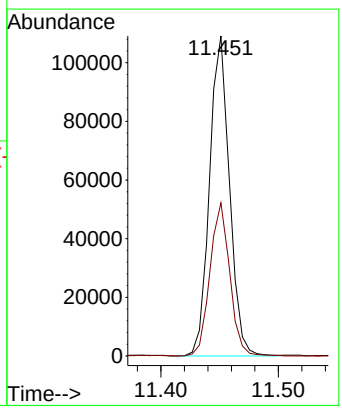


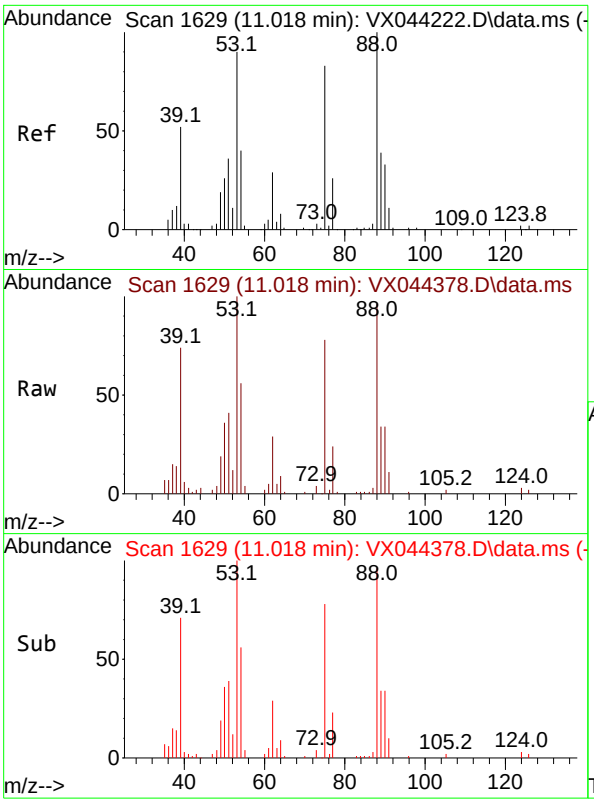


#80
1,3,5-Trimethylbenzene
Concen: 19.891 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:105 Resp: 128741

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.4



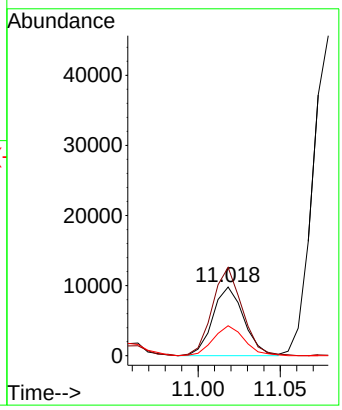


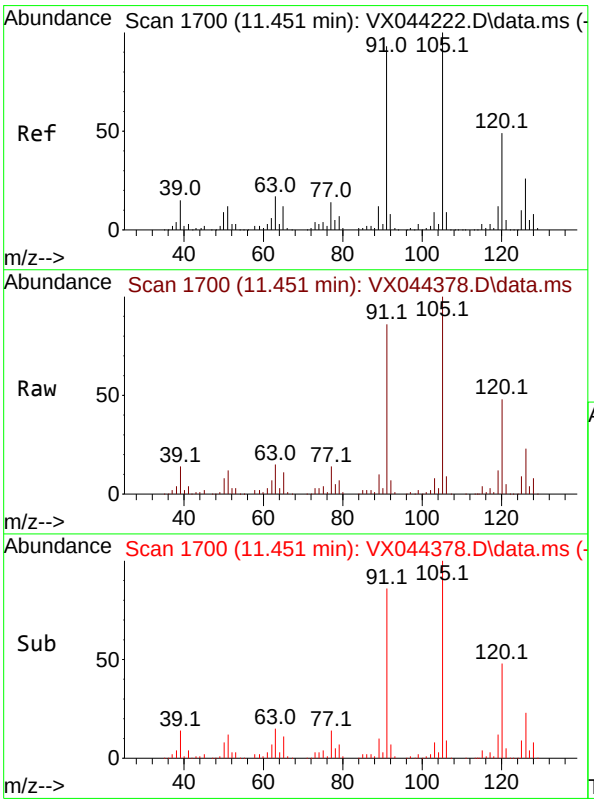
#81
trans-1,4-Dichloro-2-butene
Concen: 20.003 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 75 Resp: 12897

Ion	Ratio	Lower	Upper
75	100		
53	123.4	93.6	140.4
89	43.5	37.3	55.9

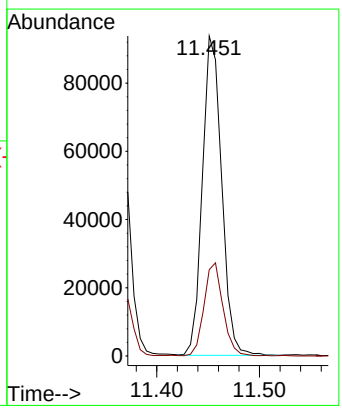


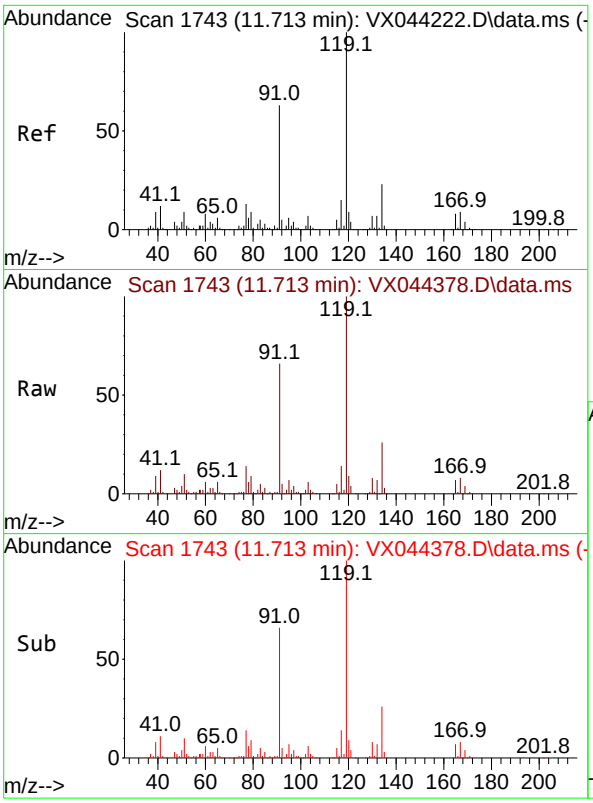


#82
4-Chlorotoluene
Concen: 19.783 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 91 Resp: 122217

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.5	43.5



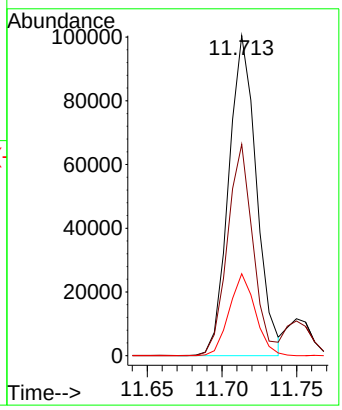


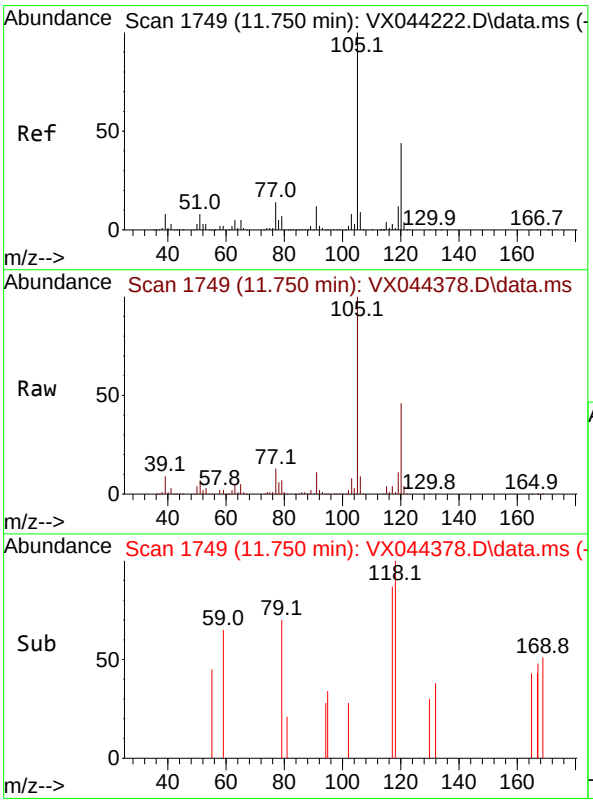
#83
tert-Butylbenzene
Concen: 20.232 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:119 Resp: 129411

Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.5
134	24.1	11.5	34.4

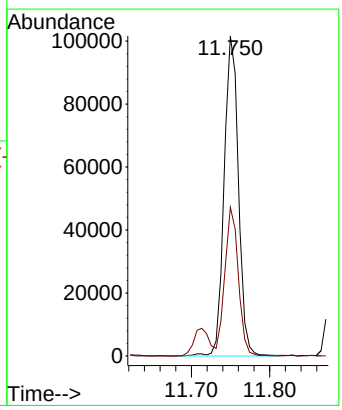


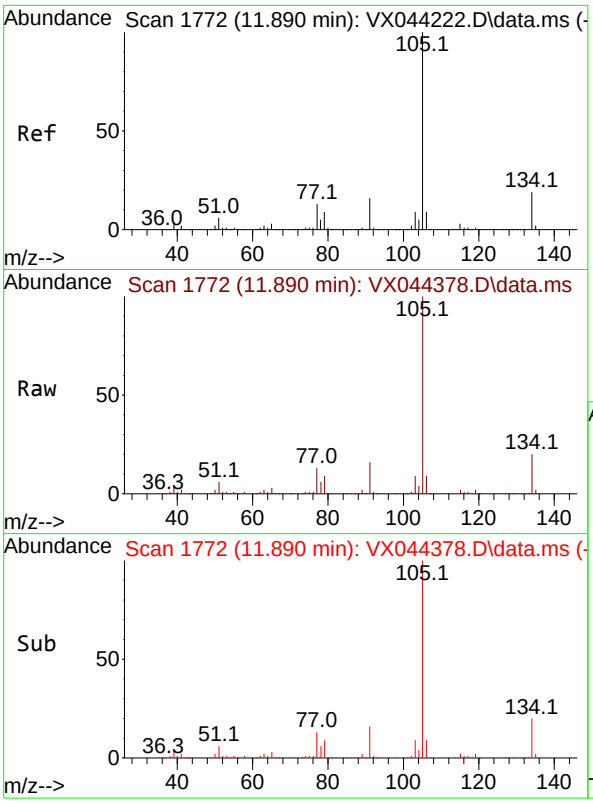


#84
1,2,4-Trimethylbenzene
Concen: 20.340 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:105 Resp: 129290

Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.7	65.1



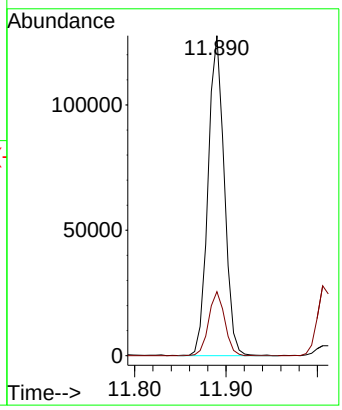


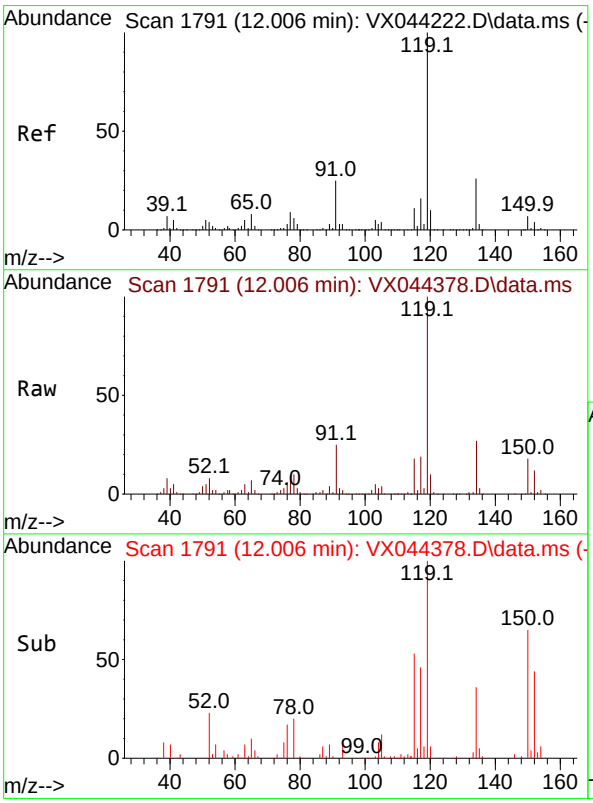
#85
sec-Butylbenzene
Concen: 20.129 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:105 Resp: 156306

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.4

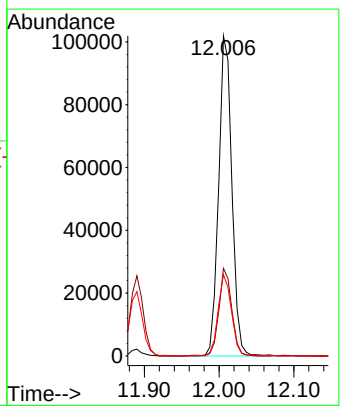


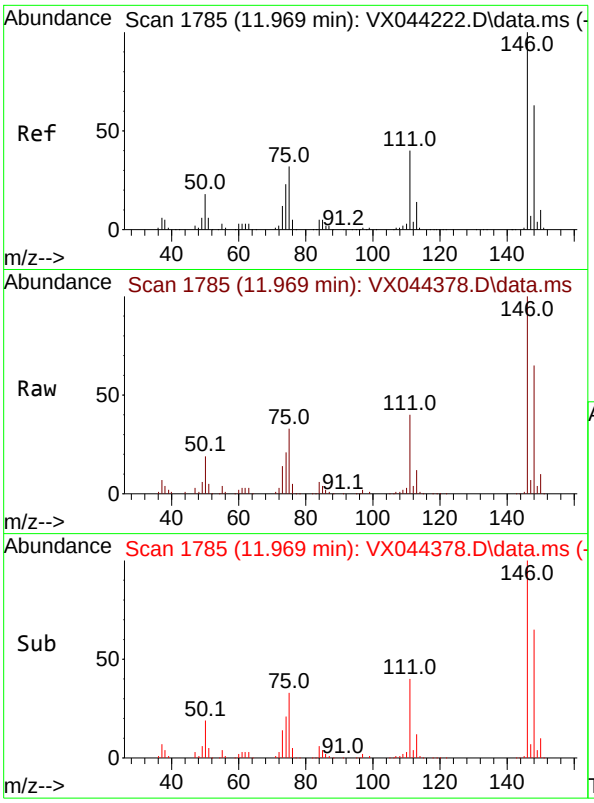


#86
p-Isopropyltoluene
Concen: 19.501 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:119 Resp: 126037

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.8	38.4
91	25.6	13.0	39.0



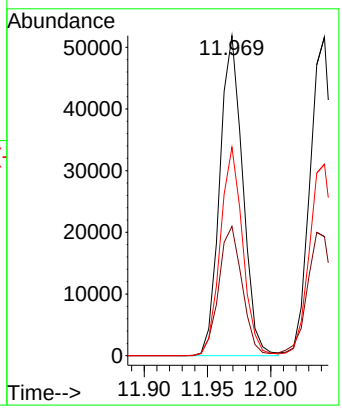


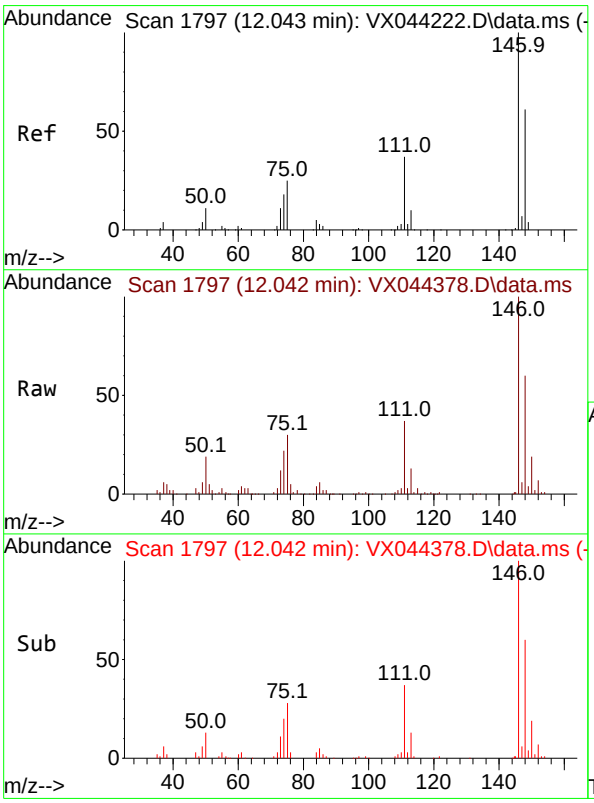
#87
1,3-Dichlorobenzene
Concen: 19.763 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:146 Resp: 65335

Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.4	64.2
148	63.7	31.7	95.1

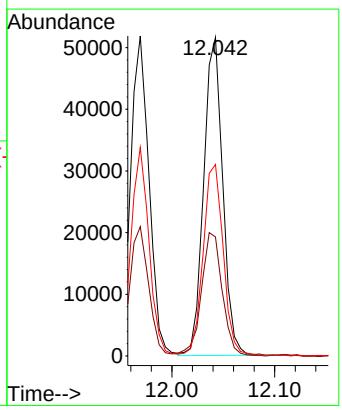


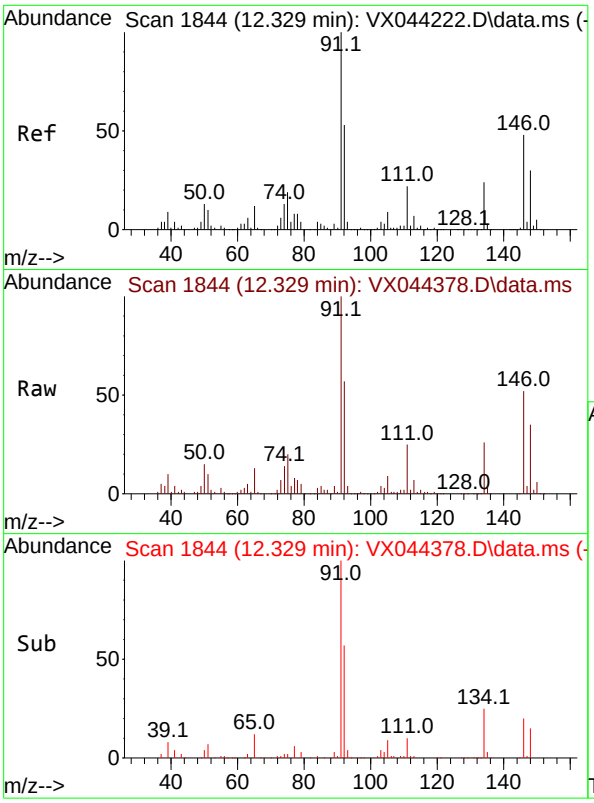


#88
1,4-Dichlorobenzene
Concen: 19.529 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:146 Resp: 66369

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.0	63.0
148	64.2	32.3	96.8



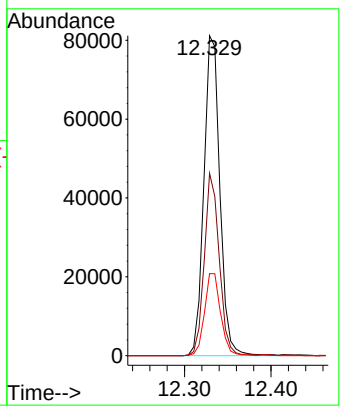


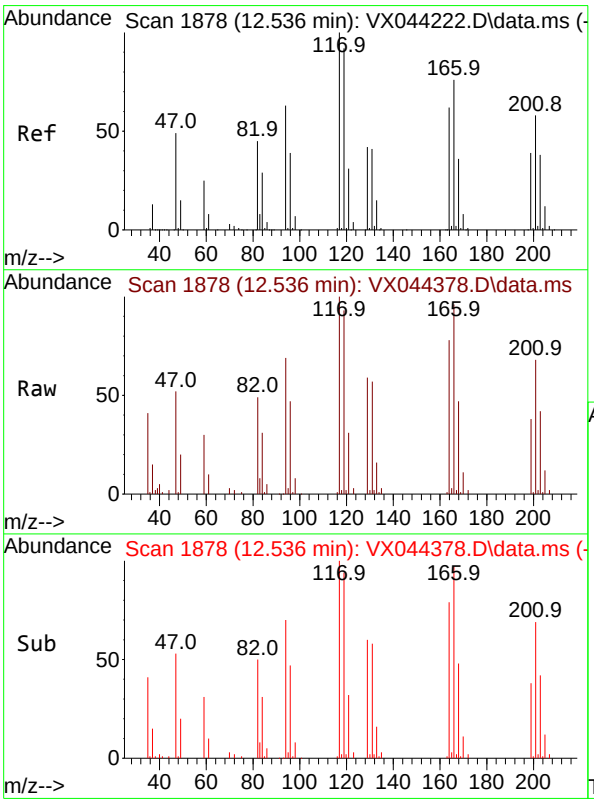
#89
n-Butylbenzene
Concen: 19.124 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion: 91 Resp: 103934

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.6	79.7
134	26.0	12.6	37.8

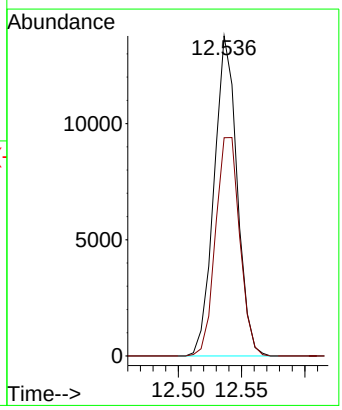


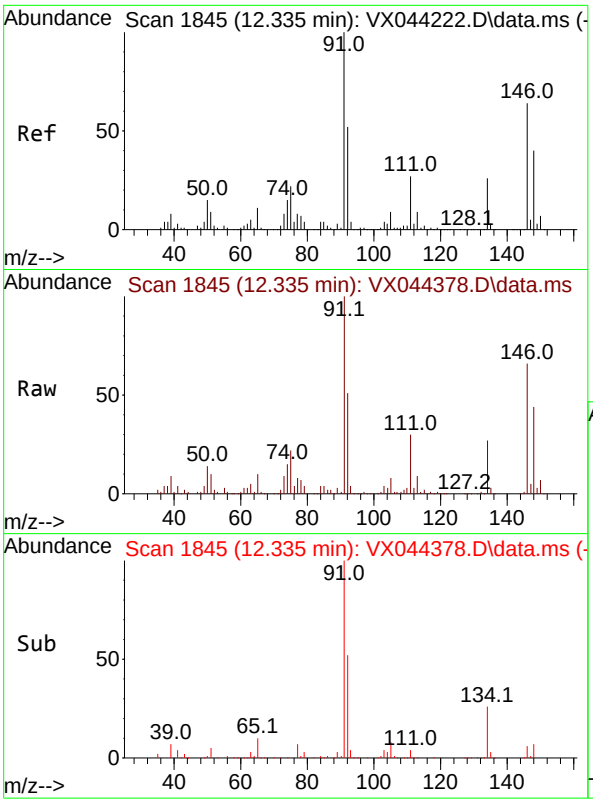


#90
Hexachloroethane
Concen: 18.426 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:117 Resp: 17384

Ion	Ratio	Lower	Upper
117	100		
201	71.8	31.4	94.2



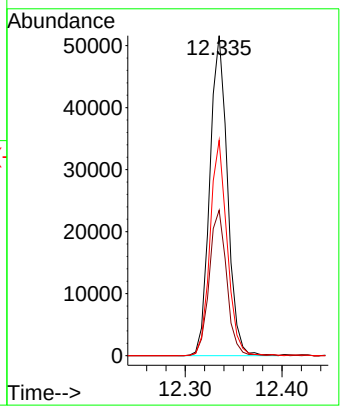


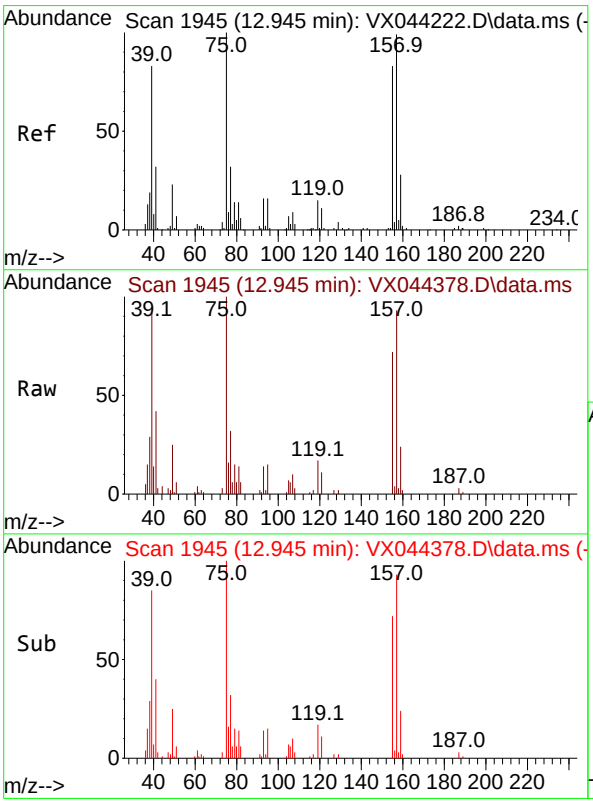
#91
1,2-Dichlorobenzene
Concen: 19.042 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:146 Resp: 65366

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.4	64.3
148	65.3	31.6	95.0

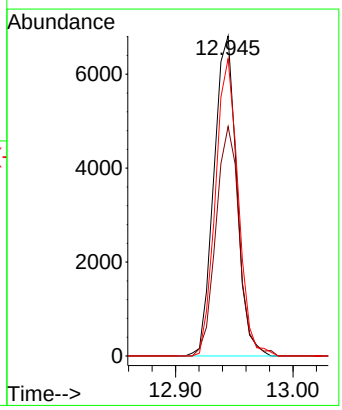


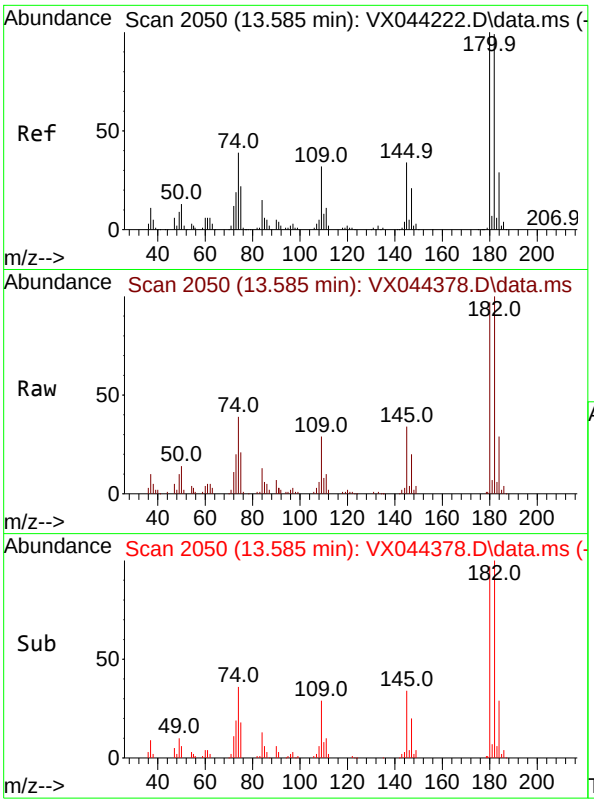


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.498 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion: 75 Resp: 9208

Ion	Ratio	Lower	Upper
75	100		
155	73.4	38.1	114.3
157	92.7	47.2	141.6



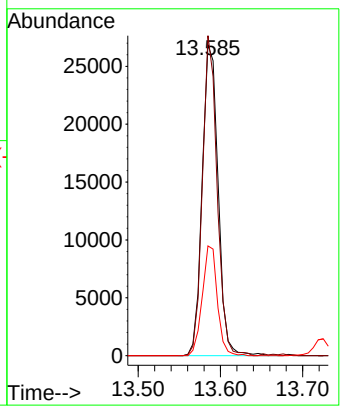


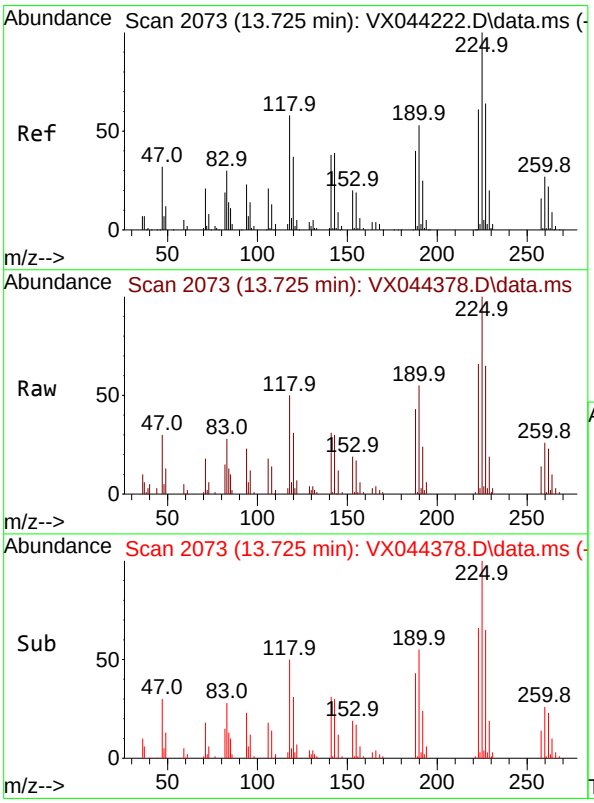
#93
1,2,4-Trichlorobenzene
Concen: 19.227 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:180 Resp: 36183

Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.0	144.2
145	33.4	16.6	49.7

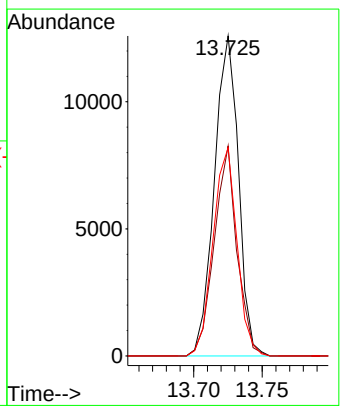


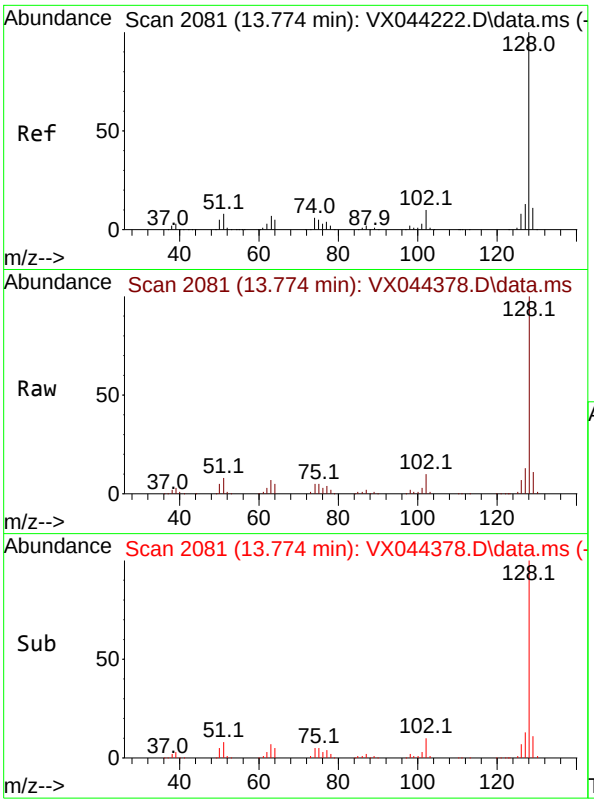


#94
Hexachlorobutadiene
Concen: 20.302 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:225 Resp: 15368

Ion	Ratio	Lower	Upper
225	100		
223	62.2	30.8	92.4
227	64.9	32.1	96.3



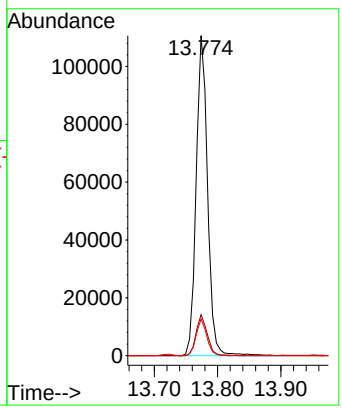


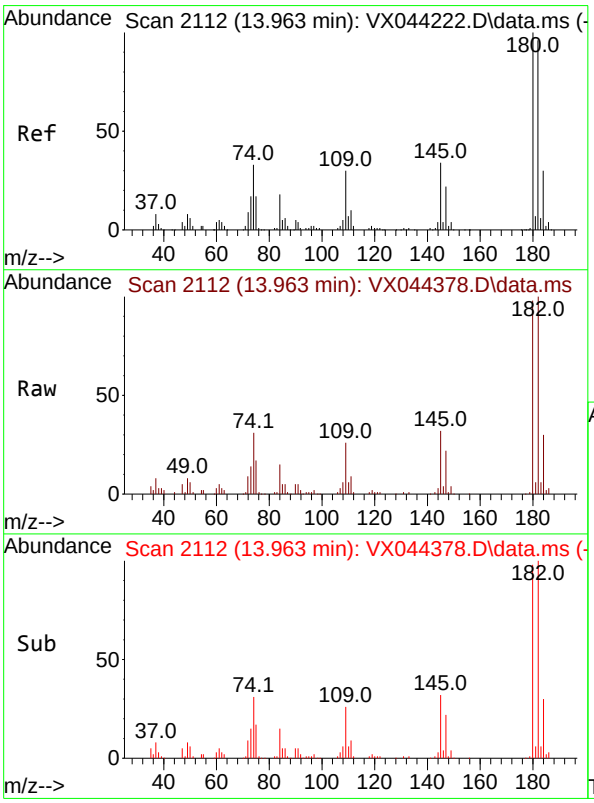
#95
Naphthalene
Concen: 18.928 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBS01

Tgt Ion:128 Resp: 139046

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.5	15.7
129	10.8	9.0	13.4

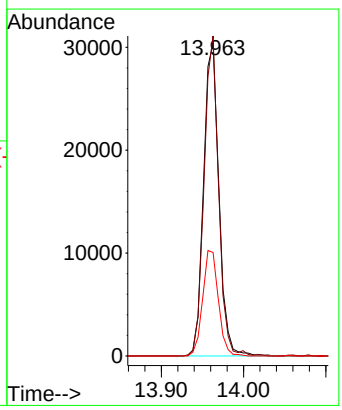




#96
1,2,3-Trichlorobenzene
Concen: 19.742 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044378.D
Acq: 18 Dec 2024 13:11

Tgt Ion:180 Resp: 39406

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.0	144.0
145	34.4	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044379.D
Acq On : 18 Dec 2024 13:38
Operator : JC/MD
Sample : VX1218WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Quant Time: Dec 19 00:44:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	147797	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	256001	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	224705	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	101474	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	121233	46.783	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.560%			
35) Dibromofluoromethane	5.379	113	88067	49.670	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.340%			
50) Toluene-d8	8.647	98	302636	50.593	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.180%			
62) 4-Bromofluorobenzene	11.079	95	105722	50.581	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	45251	19.801	ug/l	97
3) Chloromethane	1.294	50	41759	19.108	ug/l	100
4) Vinyl Chloride	1.374	62	42787	18.793	ug/l	98
5) Bromomethane	1.593	94	27623	17.102	ug/l	98
6) Chloroethane	1.666	64	30662	21.628	ug/l	96
7) Trichlorofluoromethane	1.874	101	70228	15.756	ug/l	96
8) Diethyl Ether	2.130	74	26108	17.160	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	34599	19.183	ug/l	97
10) Methyl Iodide	2.441	142	44464	18.705	ug/l	97
11) Tert butyl alcohol	2.977	59	39802	108.982	ug/l #	93
12) 1,1-Dichloroethene	2.306	96	32443	19.584	ug/l	98
13) Acrolein	2.233	56	46746	88.423	ug/l	98
14) Allyl chloride	2.654	41	51394	18.626	ug/l	97
15) Acrylonitrile	3.062	53	97173	96.053	ug/l	99
16) Acetone	2.386	43	84104	79.609	ug/l	96
17) Carbon Disulfide	2.502	76	59114	18.772	ug/l	99
18) Methyl Acetate	2.703	43	50892	18.683	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	122090	18.886	ug/l	100
20) Methylene Chloride	2.782	84	37302	18.799	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	32522	18.472	ug/l	98
22) Diisopropyl ether	3.757	45	116460	18.743	ug/l #	86
23) Vinyl Acetate	3.721	43	506590	100.283	ug/l	98
24) 1,1-Dichloroethane	3.605	63	64917	18.743	ug/l	98
25) 2-Butanone	4.562	43	136514	90.894	ug/l	97
26) 2,2-Dichloropropane	4.465	77	53495	19.012	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	40632	18.171	ug/l	98
28) Bromochloromethane	4.897	49	29472	17.353	ug/l	98
29) Tetrahydrofuran	5.007	42	89366	92.701	ug/l	98
30) Chloroform	5.093	83	70829	18.201	ug/l	98
31) Cyclohexane	5.458	56	53278	19.049	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	58144	18.000	ug/l	98
36) 1,1-Dichloropropene	5.684	75	42509	18.548	ug/l	99
37) Ethyl Acetate	4.715	43	59443	20.982	ug/l	98
38) Carbon Tetrachloride	5.666	117	46061	18.667	ug/l	97
39) Methylcyclohexane	7.373	83	58860	21.483	ug/l	99
40) Benzene	6.031	78	140673	20.216	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044379.D
Acq On : 18 Dec 2024 13:38
Operator : JC/MD
Sample : VX1218WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Quant Time: Dec 19 00:44:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	29251	19.444	ug/l		97
42) 1,2-Dichloroethane	6.080	62	56652	19.764	ug/l		100
43) Isopropyl Acetate	6.342	43	88627	20.015	ug/l		99
44) Trichloroethene	7.123	130	33708	19.425	ug/l		95
45) 1,2-Dichloropropane	7.427	63	34278	19.281	ug/l		99
46) Dibromomethane	7.580	93	28343	20.550	ug/l		98
47) Bromodichloromethane	7.818	83	46701	19.606	ug/l		97
48) Methyl methacrylate	7.696	41	42973	19.992	ug/l		98
49) 1,4-Dioxane	7.665	88	14391	403.813	ug/l	#	66
51) 4-Methyl-2-Pentanone	8.574	43	278065	97.665	ug/l		99
52) Toluene	8.714	92	86445	19.782	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	47425	19.754	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	52882	20.390	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	35003	20.163	ug/l		98
56) Ethyl methacrylate	9.116	69	55135	20.118	ug/l		98
57) 1,3-Dichloropropane	9.305	76	62014	20.523	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.238	63	122427	88.570	ug/l		98
59) 2-Hexanone	9.427	43	203147	98.576	ug/l		100
60) Dibromochloromethane	9.519	129	32432	18.934	ug/l		99
61) 1,2-Dibromoethane	9.610	107	36303	20.544	ug/l		97
64) Tetrachloroethene	9.269	164	28683	19.232	ug/l		98
65) Chlorobenzene	10.079	112	94134	19.550	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	30368	19.624	ug/l		99
67) Ethyl Benzene	10.189	91	159963	19.228	ug/l		99
68) m/p-Xylenes	10.299	106	120723	39.546	ug/l		97
69) o-Xylene	10.640	106	59698	19.328	ug/l		98
70) Styrene	10.653	104	97751	19.741	ug/l		96
71) Bromoform	10.799	173	18261	18.882	ug/l	#	94
73) Isopropylbenzene	10.963	105	153918	19.814	ug/l		100
74) N-amyl acetate	10.842	43	68625	19.115	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	52724	19.541	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	54567	24.084	ug/l		86
77) Bromobenzene	11.195	156	36606	19.432	ug/l		100
78) n-propylbenzene	11.305	91	169075	19.692	ug/l		98
79) 2-Chlorotoluene	11.366	91	105145	18.936	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	126232	19.595	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	12684	19.831	ug/l		95
82) 4-Chlorotoluene	11.451	91	119703	19.467	ug/l		99
83) tert-Butylbenzene	11.713	119	125228	19.670	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	127328	20.126	ug/l		99
85) sec-Butylbenzene	11.890	105	153481	19.858	ug/l		99
86) p-Isopropyltoluene	12.006	119	126744	19.703	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	65361	19.864	ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	64574	19.090	ug/l		100
89) n-Butylbenzene	12.329	91	105264	19.460	ug/l		99
90) Hexachloroethane	12.536	117	17762	18.915	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	65345	19.126	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	8581	16.383	ug/l		89
93) 1,2,4-Trichlorobenzene	13.585	180	36071	19.257	ug/l		99
94) Hexachlorobutadiene	13.725	225	15287	20.290	ug/l		95
95) Naphthalene	13.774	128	141260	19.320	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	40477	20.374	ug/l		95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044379.D
Acq On : 18 Dec 2024 13:38
Operator : JC/MD
Sample : VX1218WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Quant Time: Dec 19 00:44:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

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

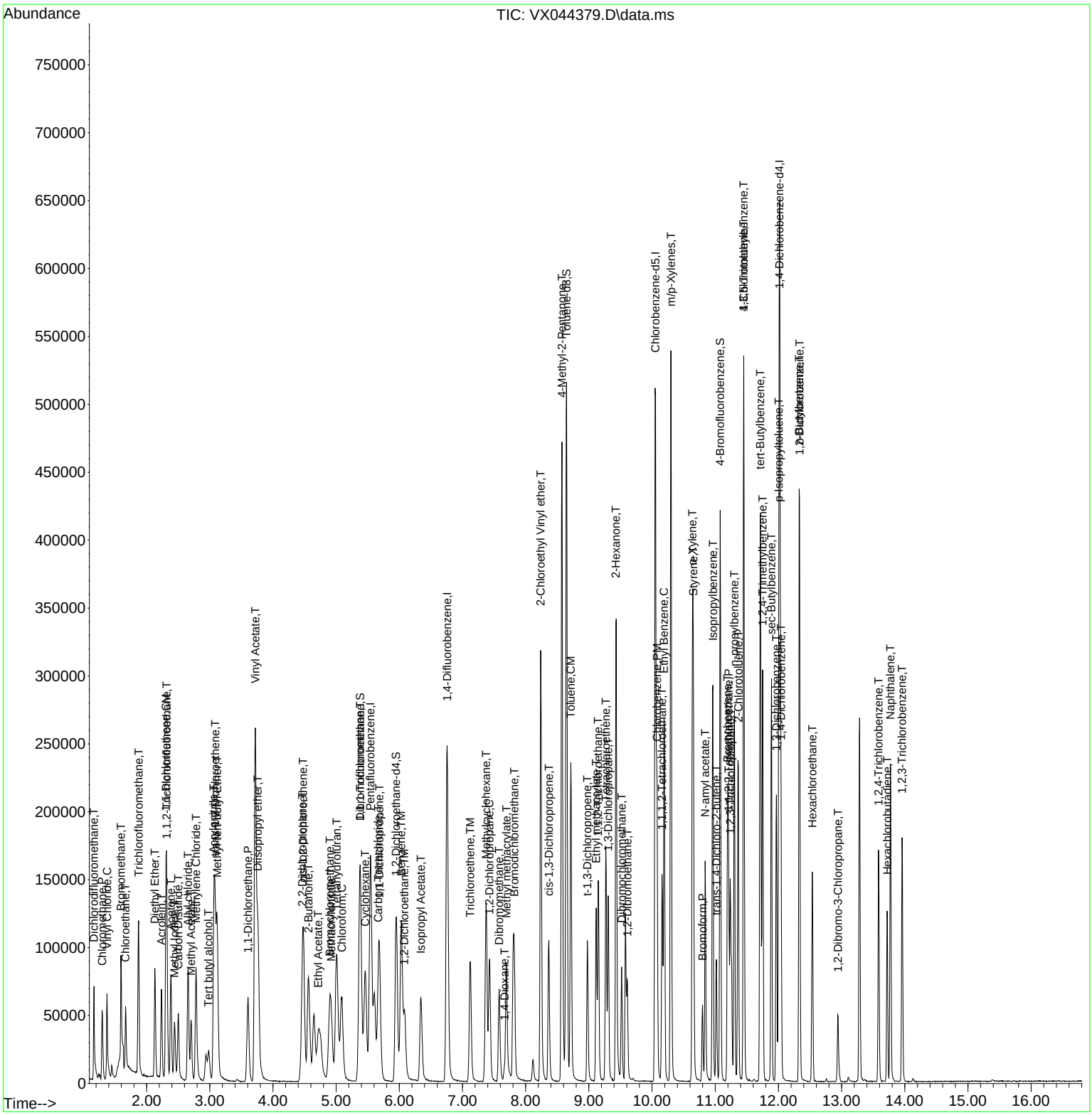
(#) = qualifier out of range (m) = manual integration (+) = signals summed

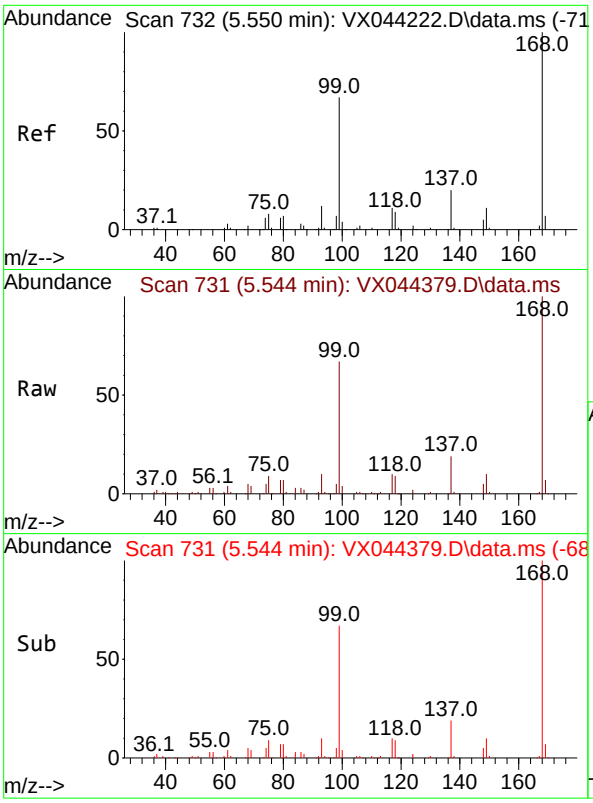
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044379.D
Acq On : 18 Dec 2024 13:38
Operator : JC/MD
Sample : VX1218WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Quant Time: Dec 19 00:44:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



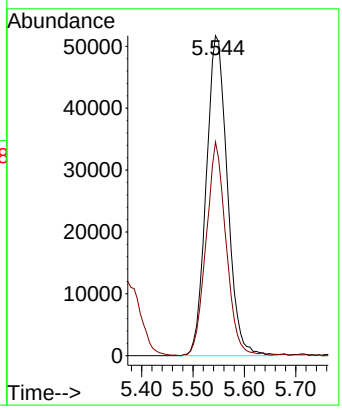


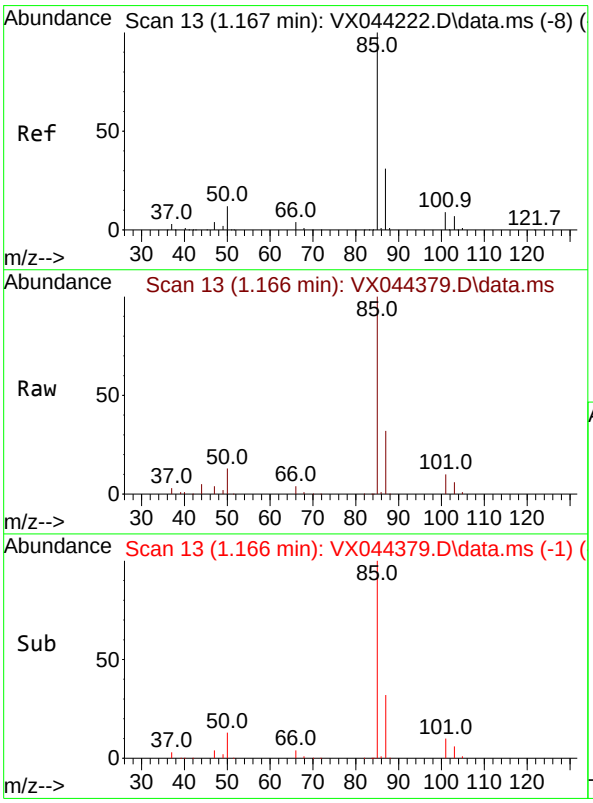
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:168 Resp: 147797

Ion	Ratio	Lower	Upper
168	100		
99	66.7	53.4	80.0

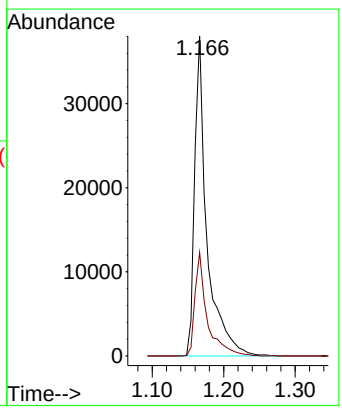


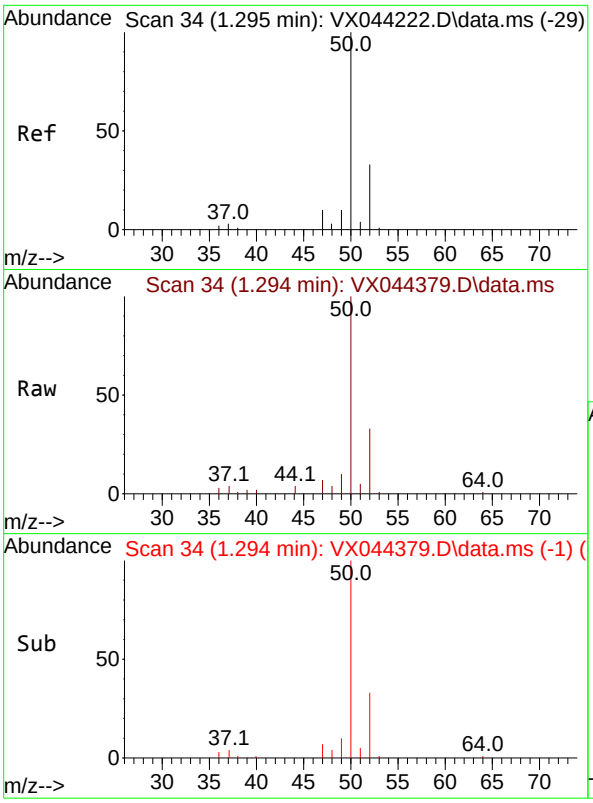


#2
Dichlorodifluoromethane
Concen: 19.801 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 85 Resp: 45251

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.4	46.4



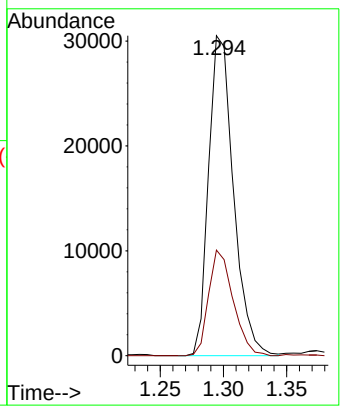


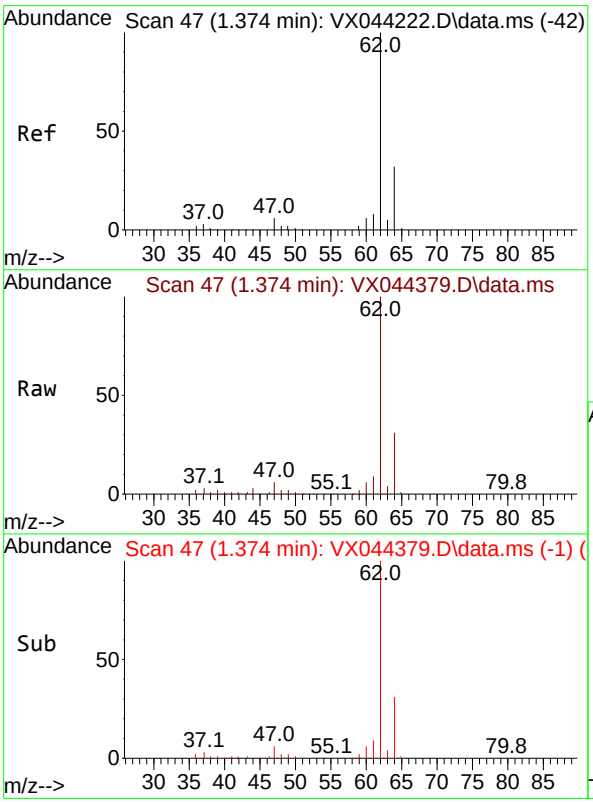
#3
Chloromethane
Concen: 19.108 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 50 Resp: 41759

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.5	39.7

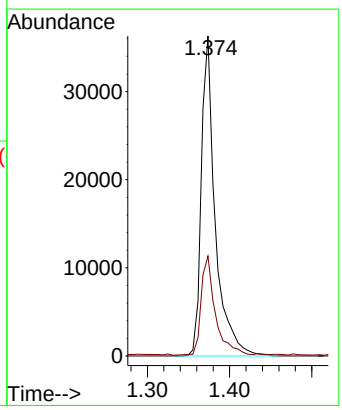


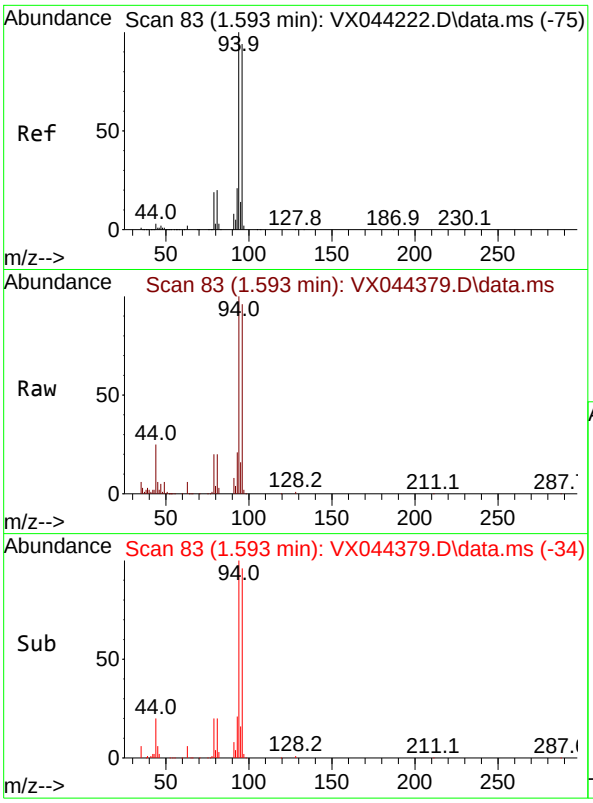


#4
Vinyl Chloride
Concen: 18.793 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 62 Resp: 42787

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.7	38.5



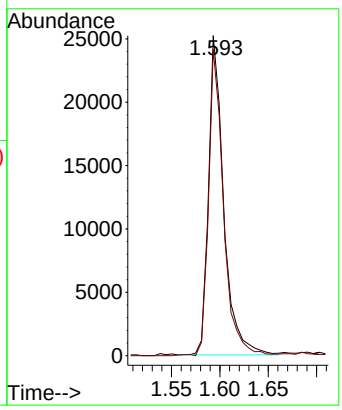


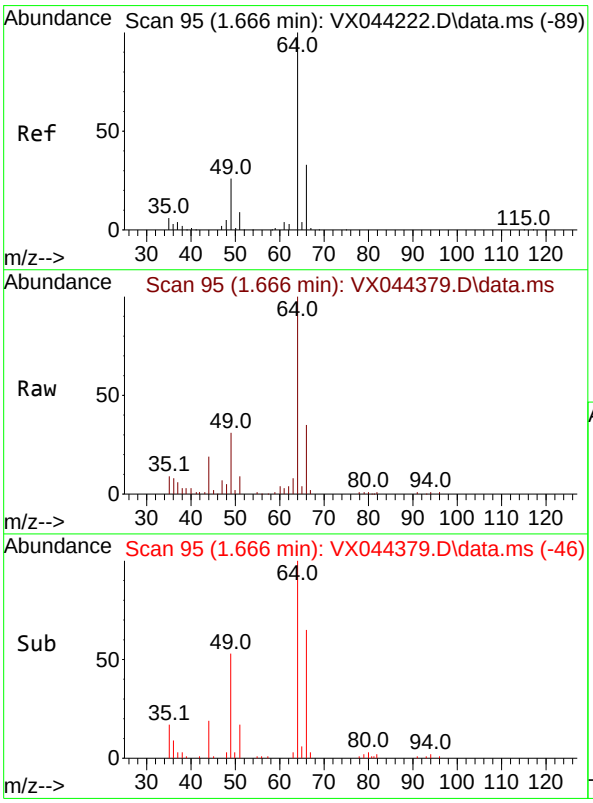
#5
Bromomethane
Concen: 17.102 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 94 Resp: 27623

Ion	Ratio	Lower	Upper
94	100		
96	95.6	74.9	112.3

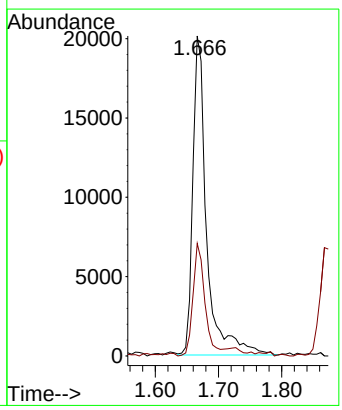


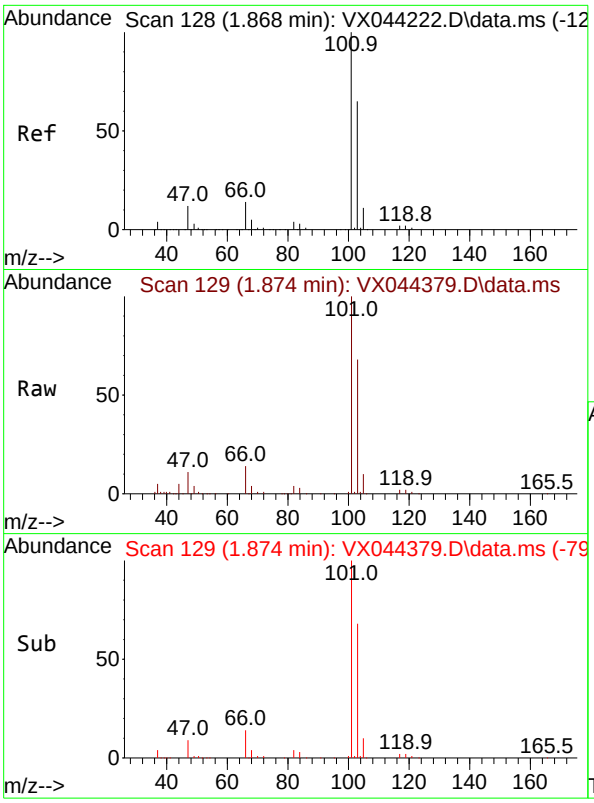


#6
Chloroethane
Concen: 21.628 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 64 Resp: 30662

Ion	Ratio	Lower	Upper
64	100		
66	35.3	26.6	39.8



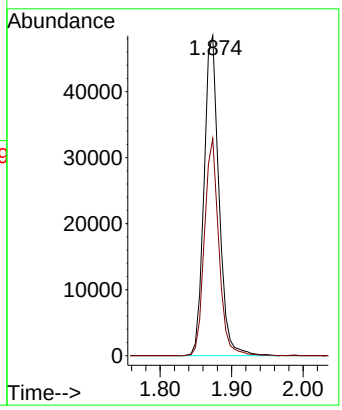


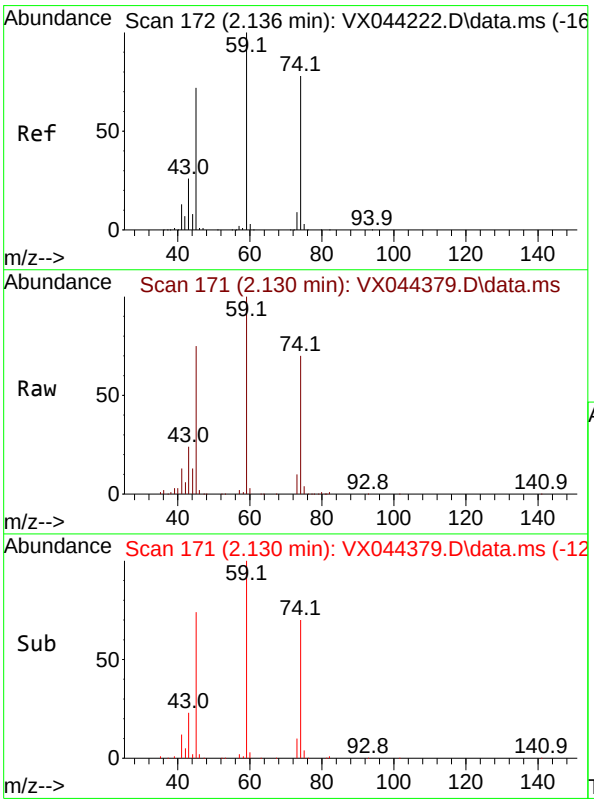
#7
Trichlorofluoromethane
Concen: 15.756 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:101 Resp: 70228

Ion	Ratio	Lower	Upper
101	100		
103	67.9	51.8	77.8

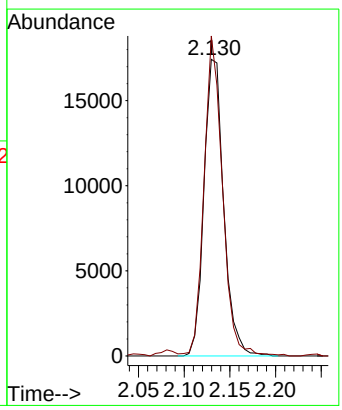


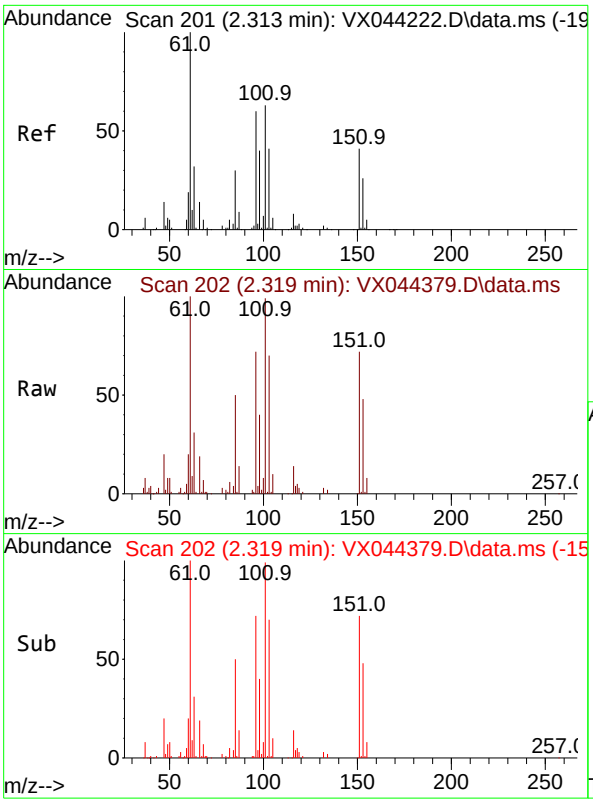


#8
Diethyl Ether
Concen: 17.160 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 74 Resp: 26108

Ion	Ratio	Lower	Upper
74	100		
45	100.9	48.4	145.0



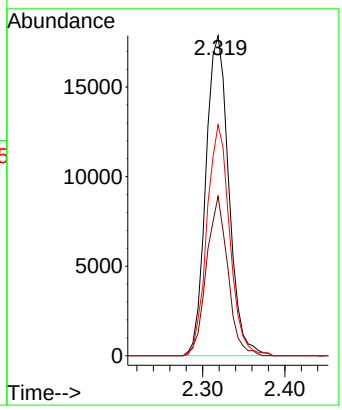


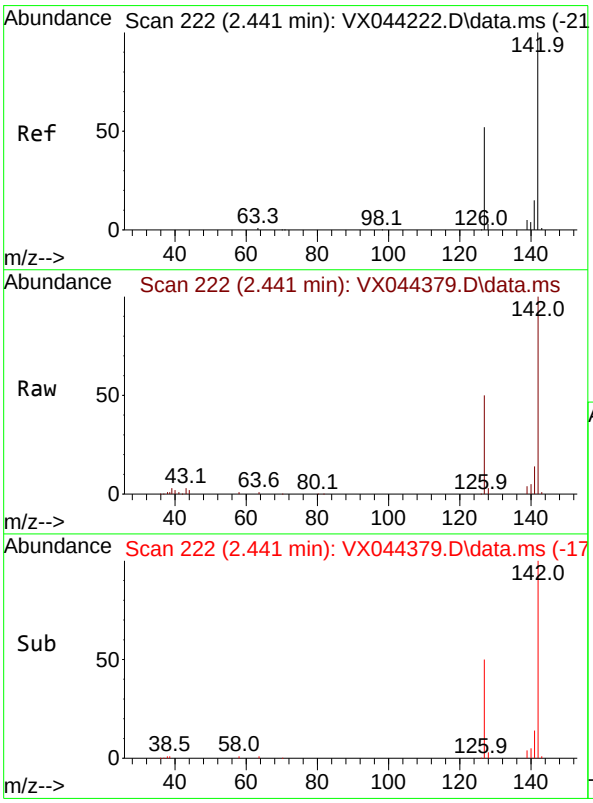
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.183 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:101 Resp: 34599

Ion	Ratio	Lower	Upper
101	100		
85	46.2	38.5	57.7
151	71.8	55.8	83.6

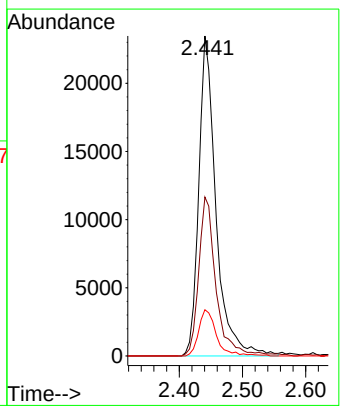


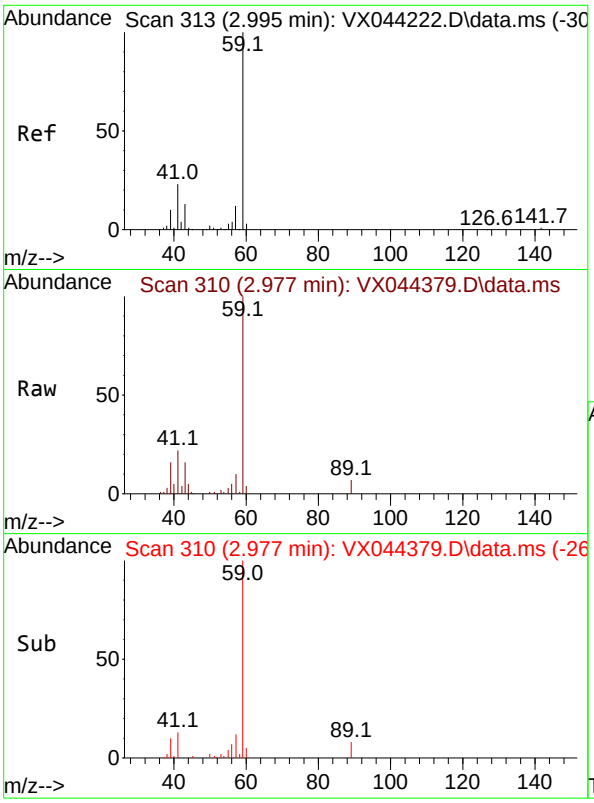


#10
Methyl Iodide
Concen: 18.705 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:142 Resp: 44464

Ion	Ratio	Lower	Upper
142	100		
127	50.2	41.8	62.8
141	14.9	11.5	17.3



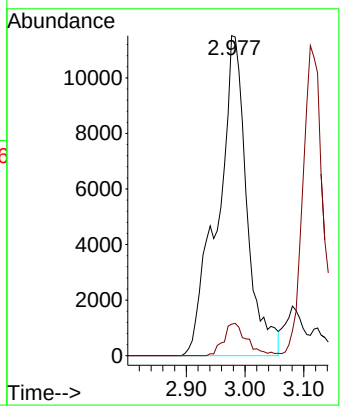


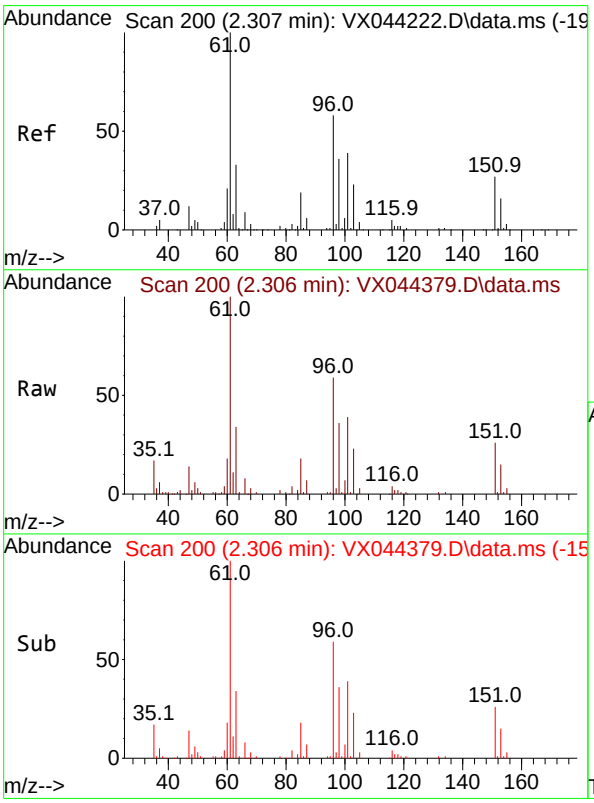
#11
Tert butyl alcohol
Concen: 108.982 ug/l
RT: 2.977 min Scan# 31
Delta R.T. -0.018 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 59 Resp: 39802

Ion	Ratio	Lower	Upper
59	100		
57	8.2	8.8	13.2#

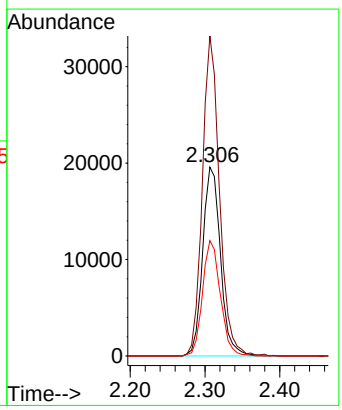


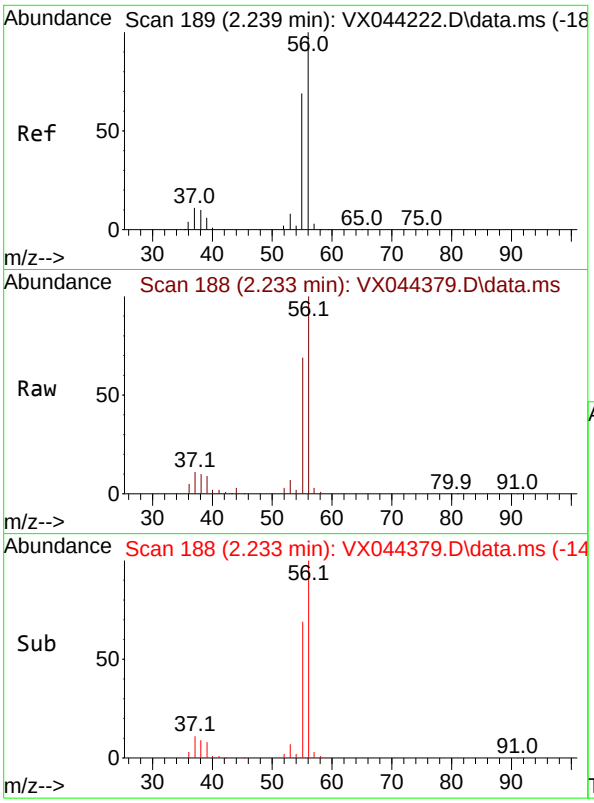


#12
1,1-Dichloroethene
Concen: 19.584 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 96 Resp: 32443

Ion	Ratio	Lower	Upper
96	100		
61	169.5	138.0	207.0
98	61.1	50.0	75.0



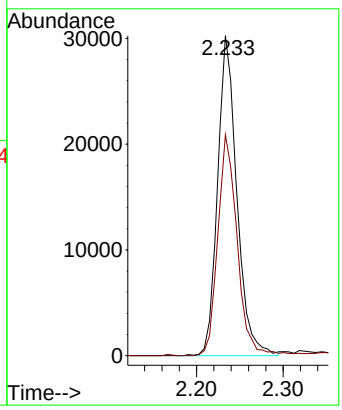


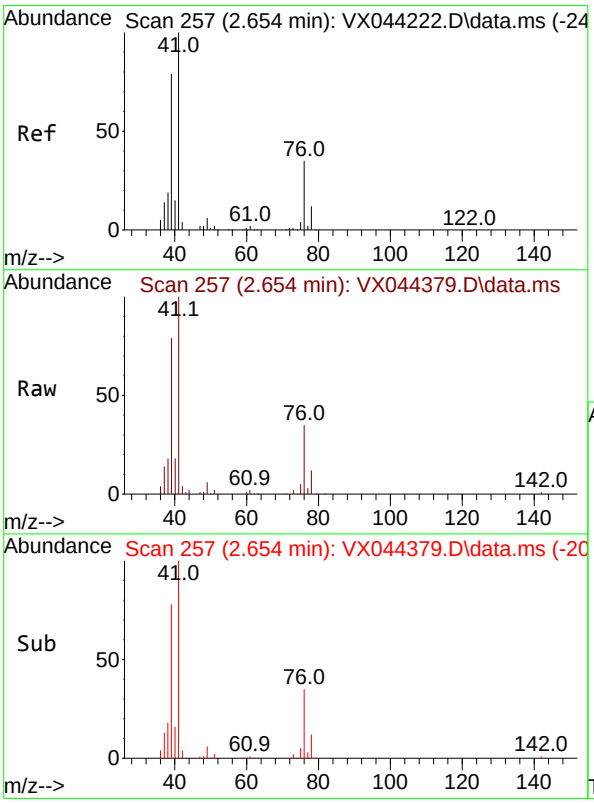
#13
Acrolein
Concen: 88.423 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 56 Resp: 46746

Ion	Ratio	Lower	Upper
56	100		
55	69.4	56.6	84.8

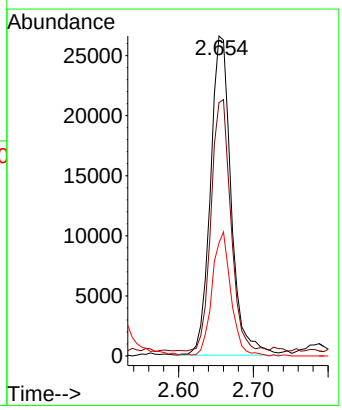


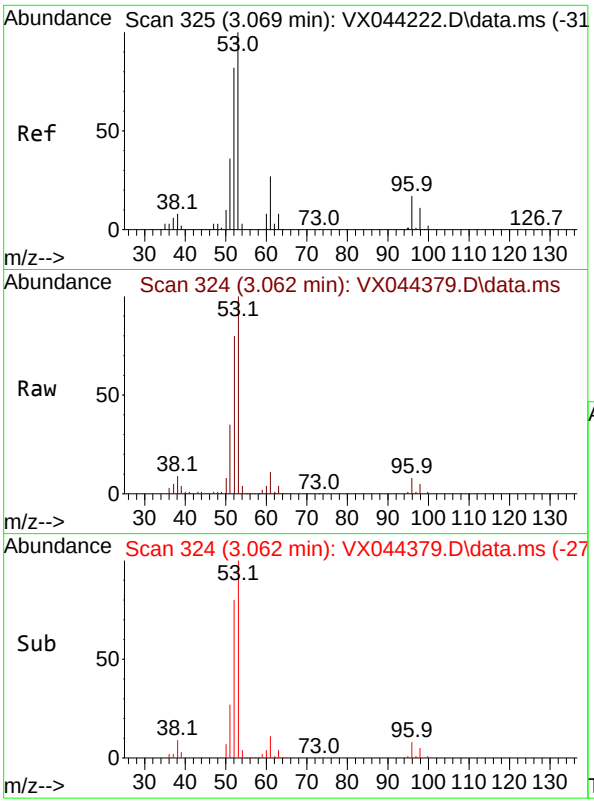


#14
Allyl chloride
Concen: 18.626 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 41 Resp: 51394

Ion	Ratio	Lower	Upper
41	100		
39	74.6	61.9	92.9
76	35.2	27.4	41.2



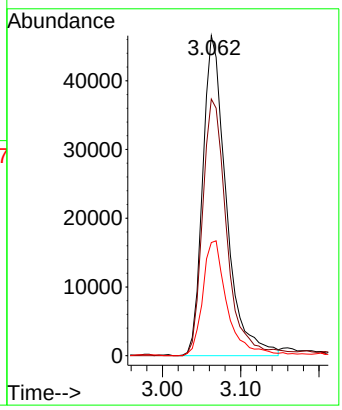


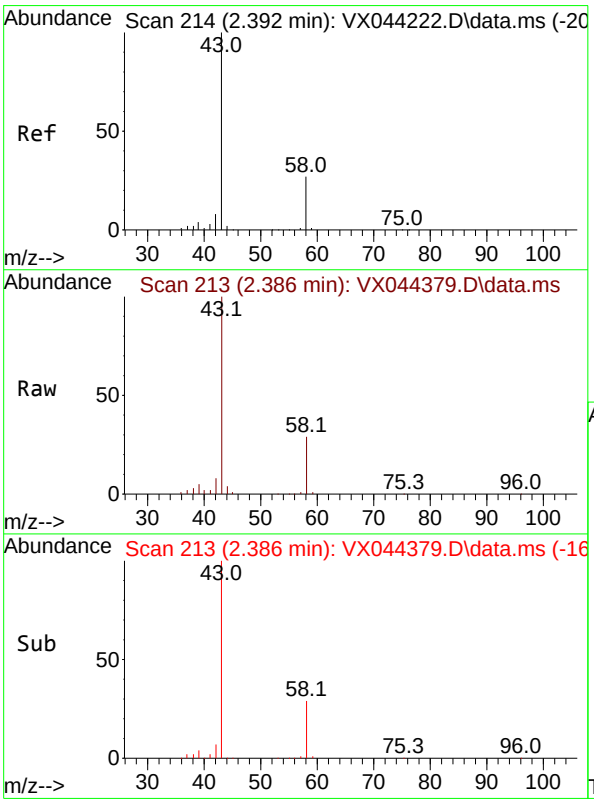
#15
Acrylonitrile
Concen: 96.053 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 53 Resp: 97173

Ion	Ratio	Lower	Upper
53	100		
52	82.5	67.4	101.0
51	37.7	30.3	45.5

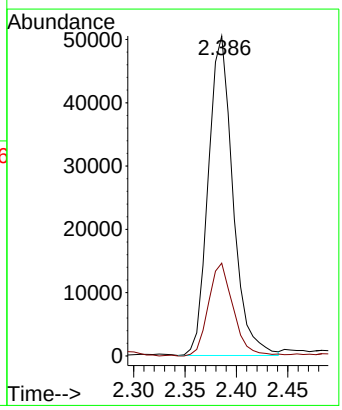


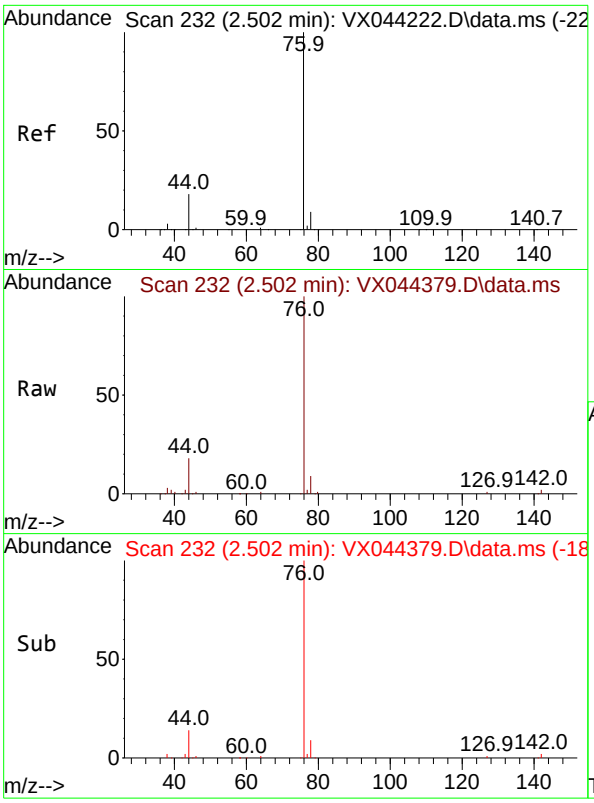


#16
Acetone
Concen: 79.609 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 84104

Ion	Ratio	Lower	Upper
43	100		
58	29.1	21.6	32.4



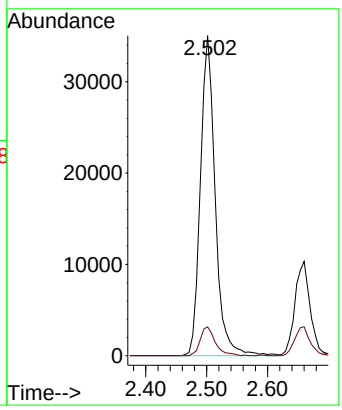


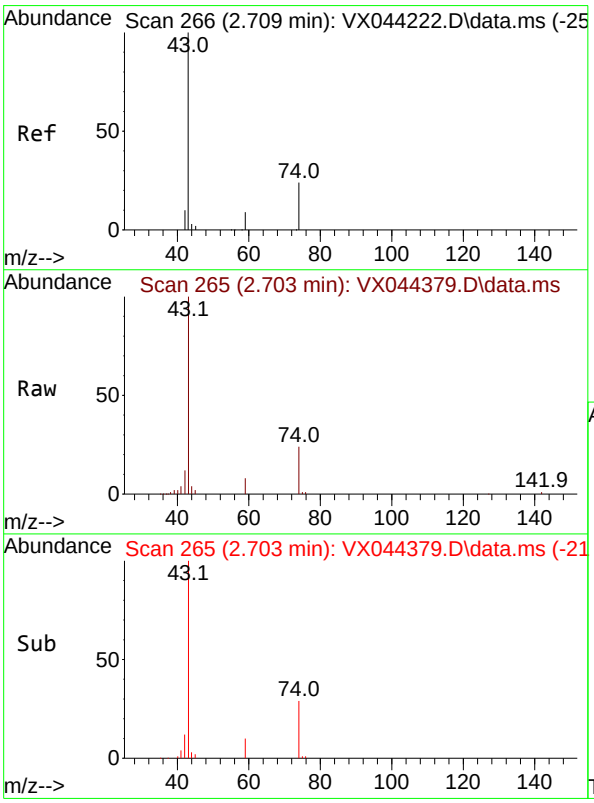
#17
Carbon Disulfide
Concen: 18.772 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 76 Resp: 59114

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

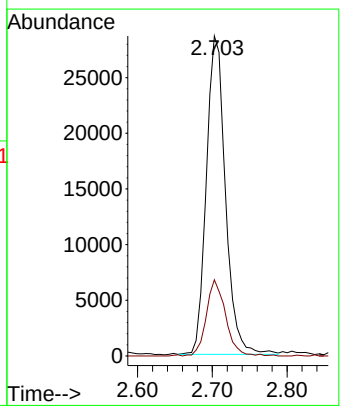


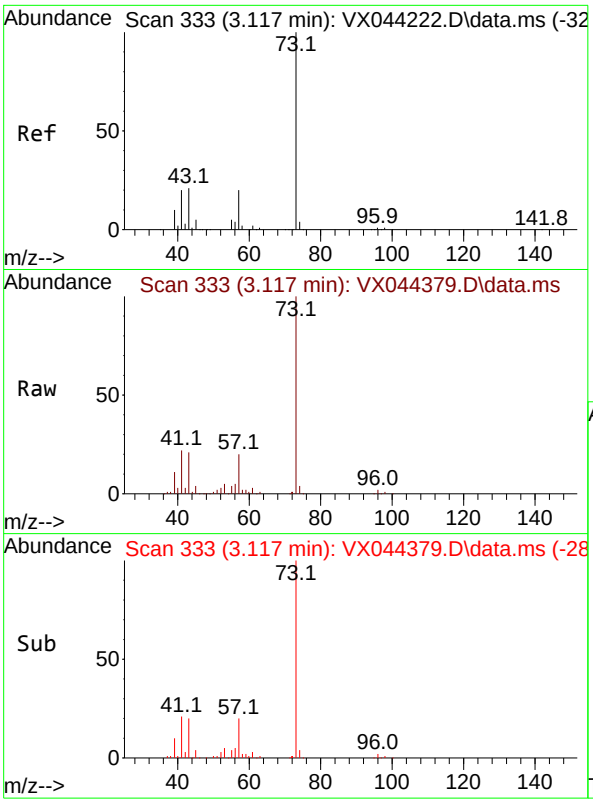


#18
Methyl Acetate
Concen: 18.683 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 50892

Ion	Ratio	Lower	Upper
43	100		
74	24.2	17.7	26.5



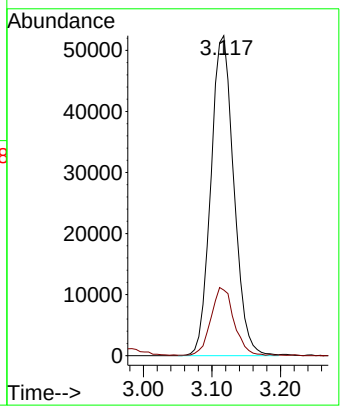


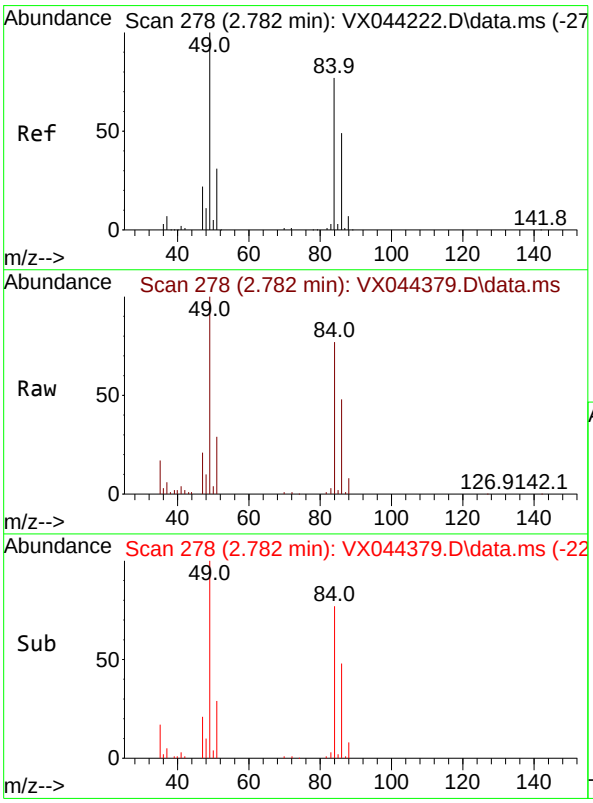
#19
Methyl tert-butyl Ether
Concen: 18.886 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 73 Resp: 122090

Ion	Ratio	Lower	Upper
73	100		
57	20.3	16.2	24.4

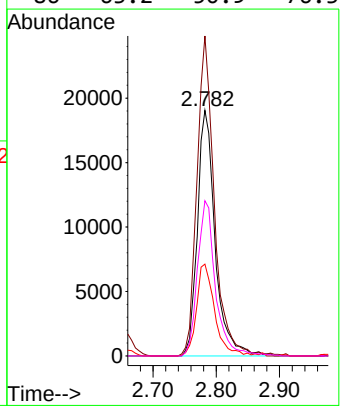


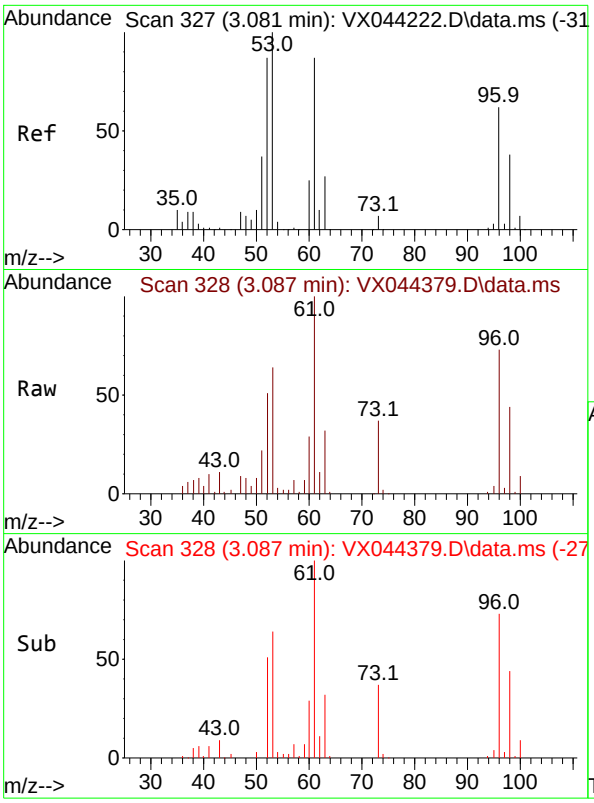


#20
Methylene Chloride
Concen: 18.799 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 84 Resp: 37302

Ion	Ratio	Lower	Upper
84	100		
49	130.3	104.2	156.4
51	37.4	32.2	48.4
86	63.2	50.9	76.3



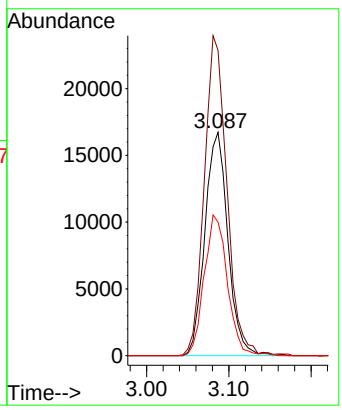


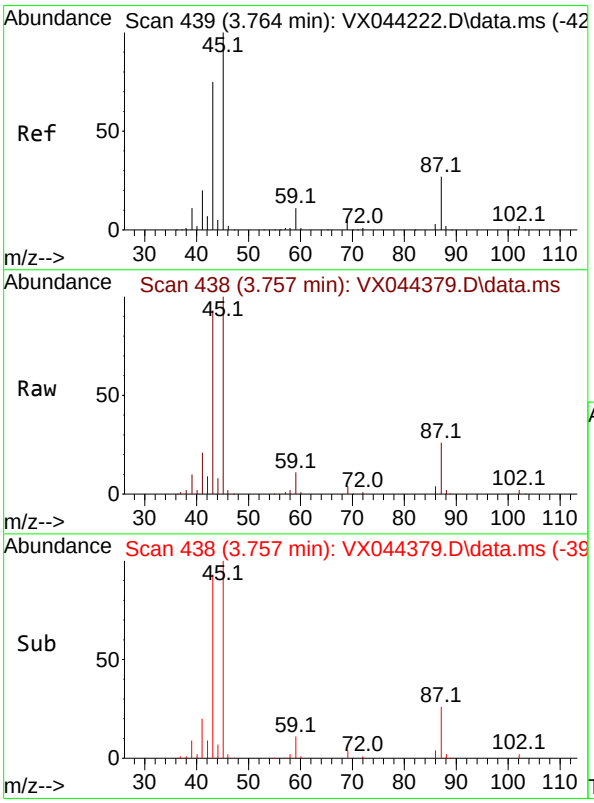
#21
trans-1,2-Dichloroethene
Concen: 18.472 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 96 Resp: 32522

Ion	Ratio	Lower	Upper
96	100		
61	136.7	112.0	168.0
98	59.8	48.8	73.2

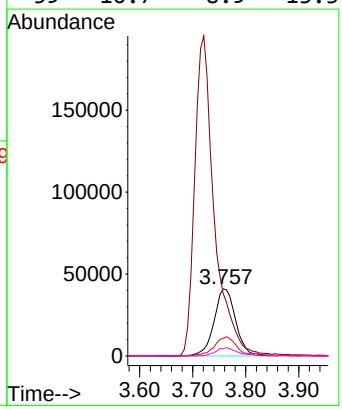


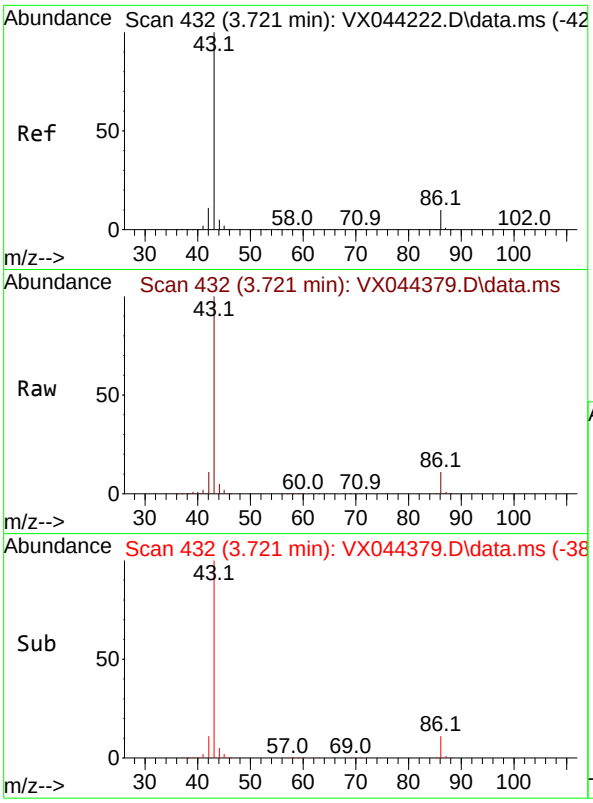


#22
Diisopropyl ether
Concen: 18.743 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 45 Resp: 116460

Ion	Ratio	Lower	Upper
45	100		
43	93.2	60.2	90.2#
87	26.1	21.2	31.8
59	10.7	8.9	13.3



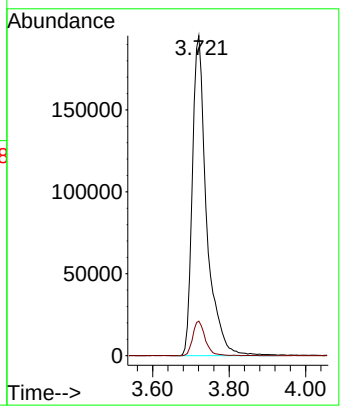


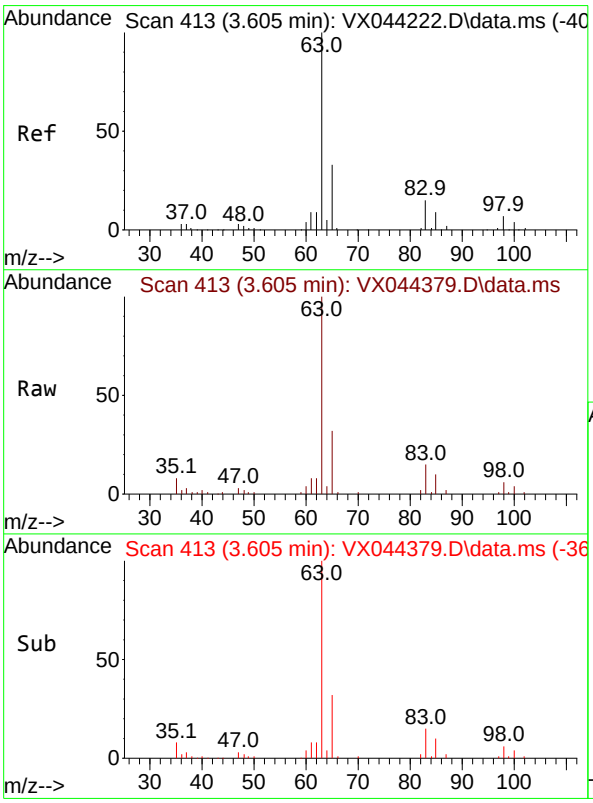
#23
Vinyl Acetate
Concen: 100.283 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 43 Resp: 506590

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

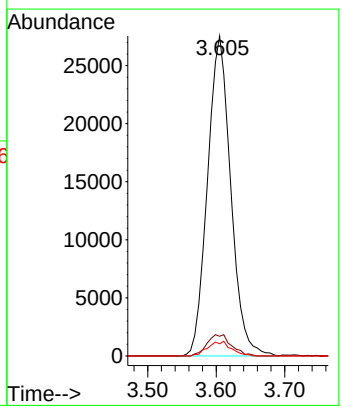


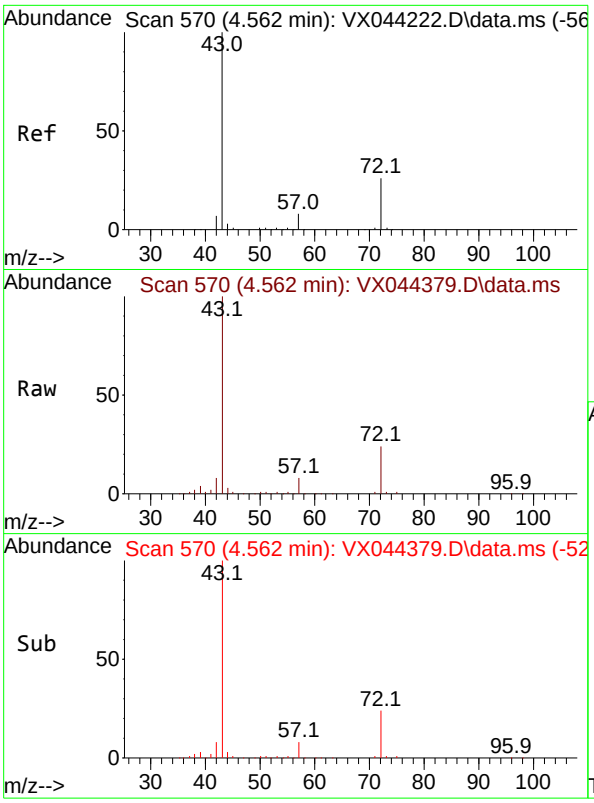


#24
1,1-Dichloroethane
Concen: 18.743 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 63 Resp: 64917

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.6	10.8
100	3.8	2.1	6.3



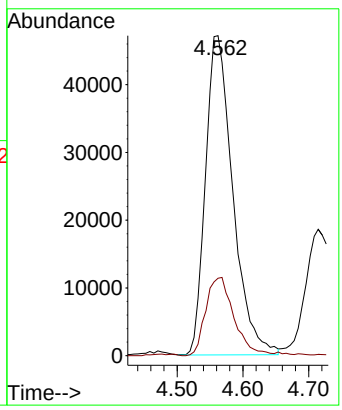


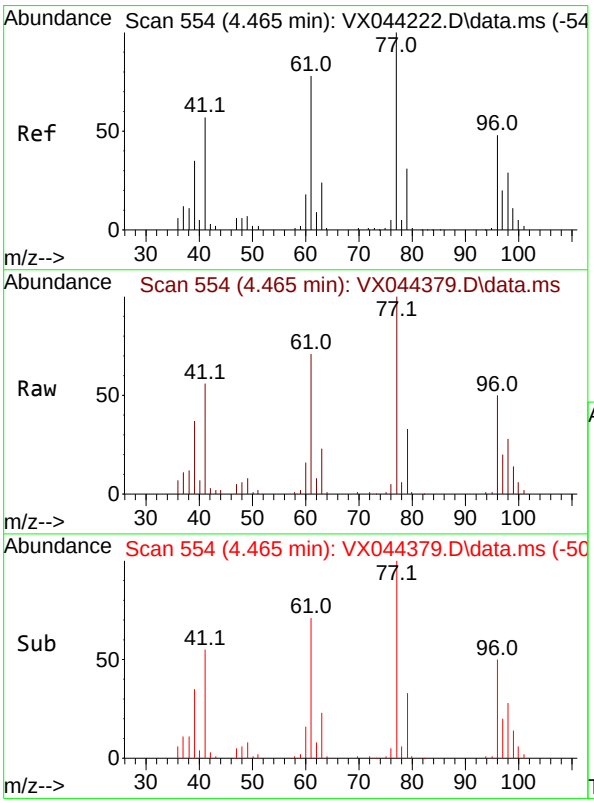
#25
2-Butanone
Concen: 90.894 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 43 Resp: 136514

Ion	Ratio	Lower	Upper
43	100		
72	24.0	20.2	30.4

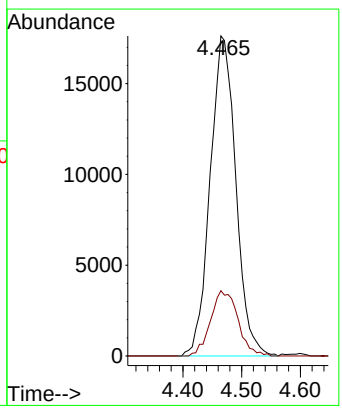


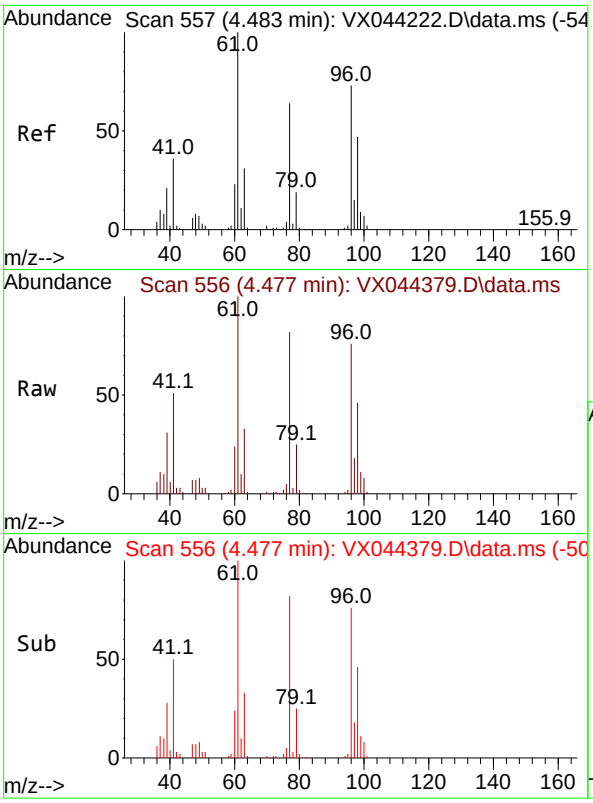


#26
2,2-Dichloropropane
Concen: 19.012 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 77 Resp: 53495

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.7	32.1



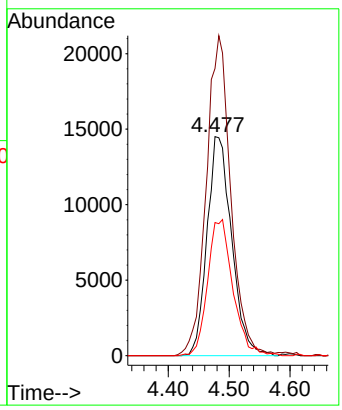


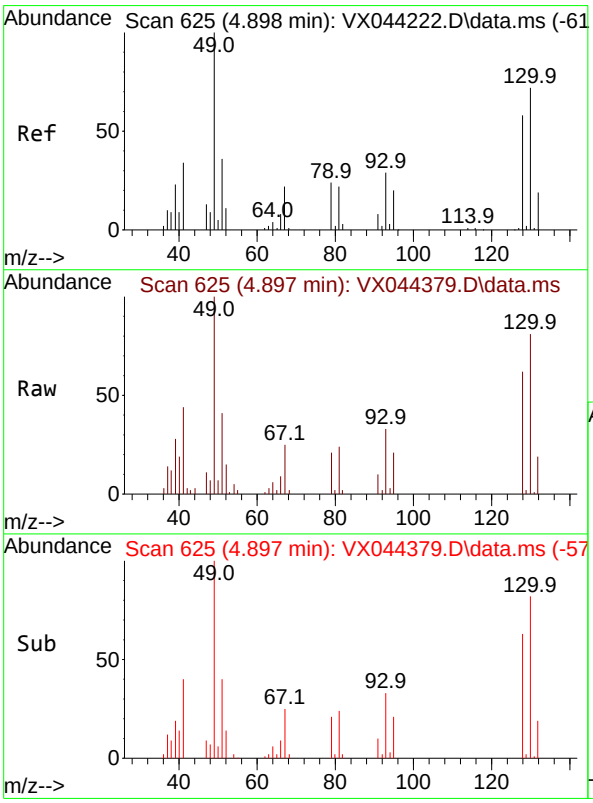
#27
cis-1,2-Dichloroethene
Concen: 18.171 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 96 Resp: 40632

Ion	Ratio	Lower	Upper
96	100		
61	146.0	0.0	299.0
98	63.8	0.0	129.0

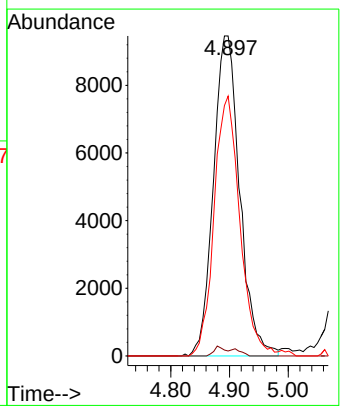


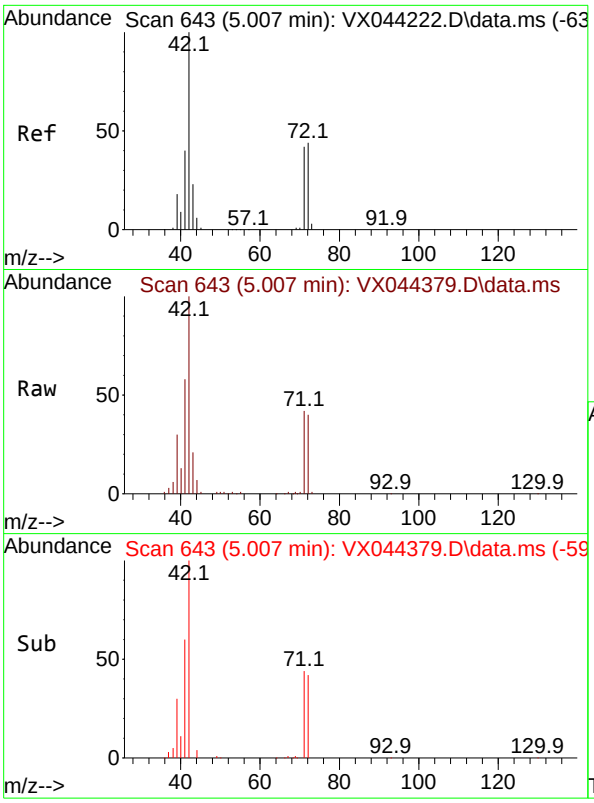


#28
Bromochloromethane
Concen: 17.353 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 49 Resp: 29472

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.2
130	79.4	62.1	93.1



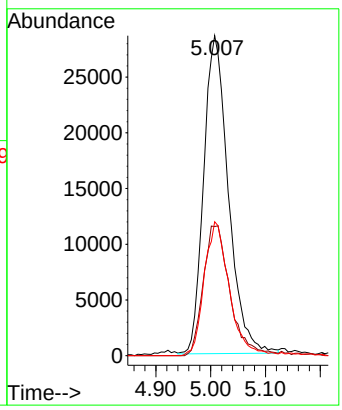


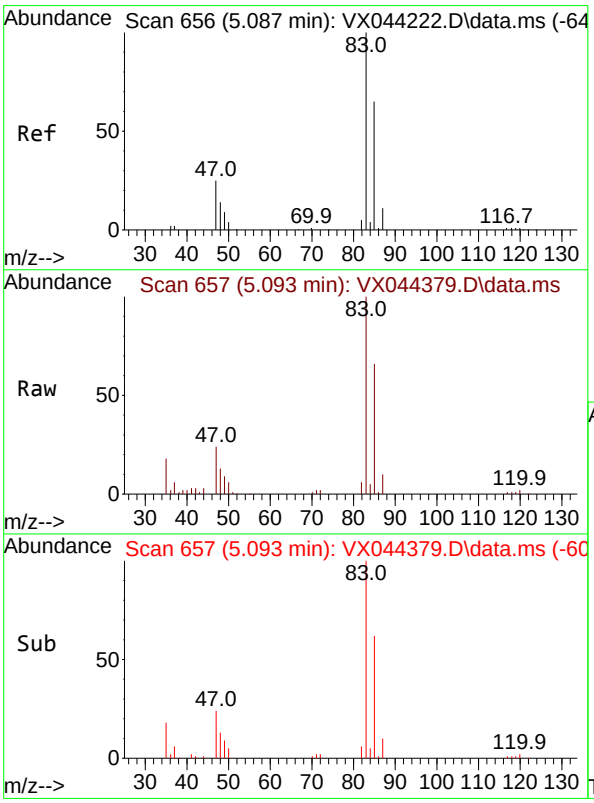
#29
Tetrahydrofuran
Concen: 92.701 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 42 Resp: 89366

Ion	Ratio	Lower	Upper
42	100		
72	44.0	37.0	55.6
71	42.5	33.6	50.4

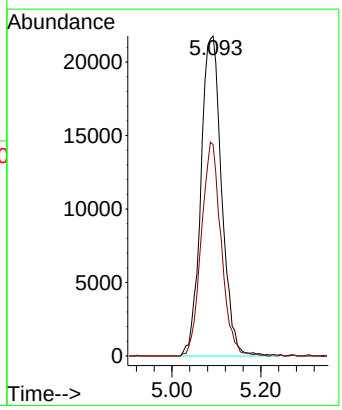


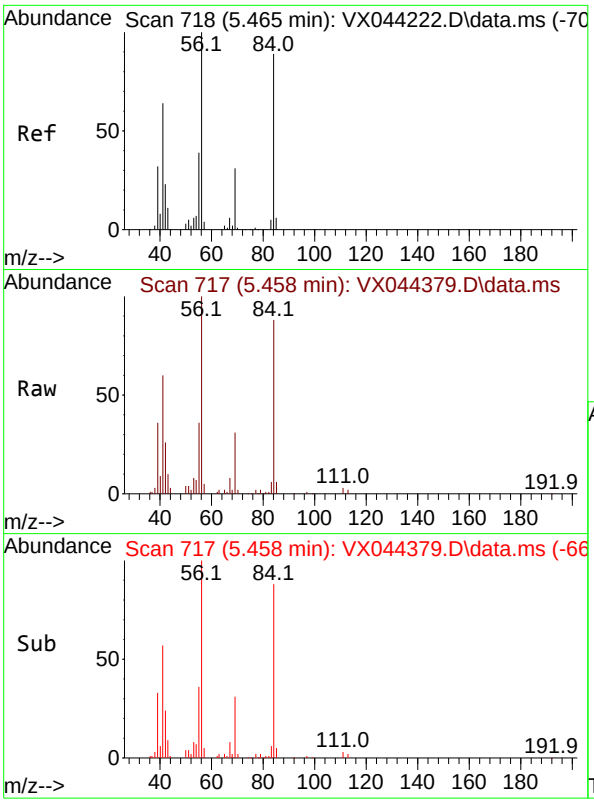


#30
Chloroform
Concen: 18.201 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 83 Resp: 70829

Ion	Ratio	Lower	Upper
83	100		
85	66.1	51.6	77.4



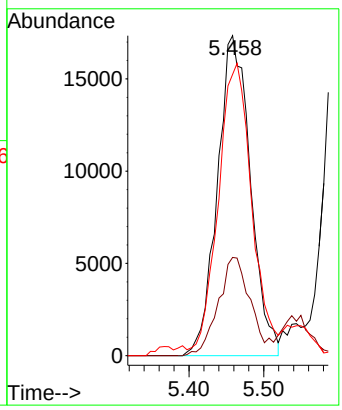


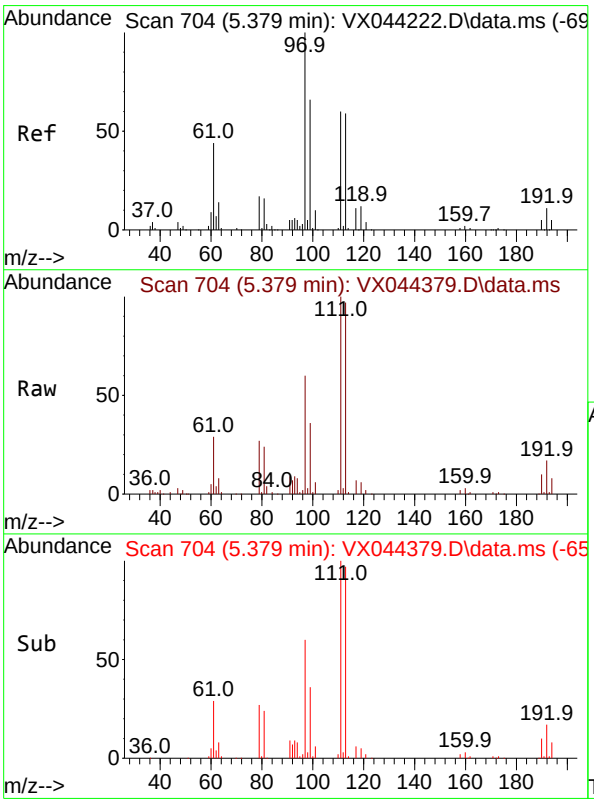
#31
Cyclohexane
Concen: 19.049 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 56 Resp: 53278

Ion	Ratio	Lower	Upper
56	100		
69	30.7	24.7	37.1
84	85.5	71.0	106.6

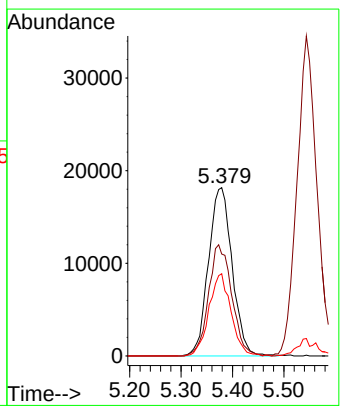


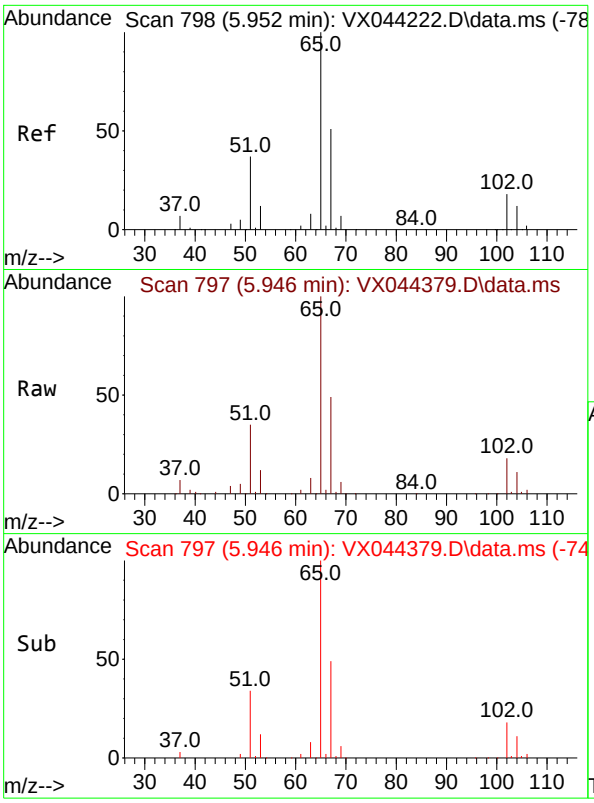


#32
1,1,1-Trichloroethane
Concen: 18.000 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 97 Resp: 58144

Ion	Ratio	Lower	Upper
97	100		
99	64.9	50.8	76.2
61	45.6	35.2	52.8



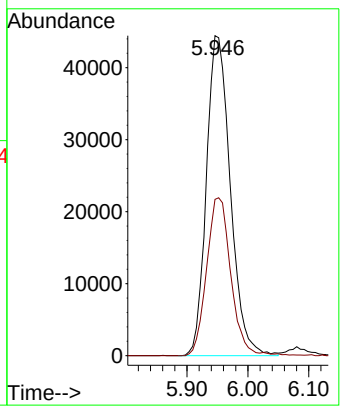


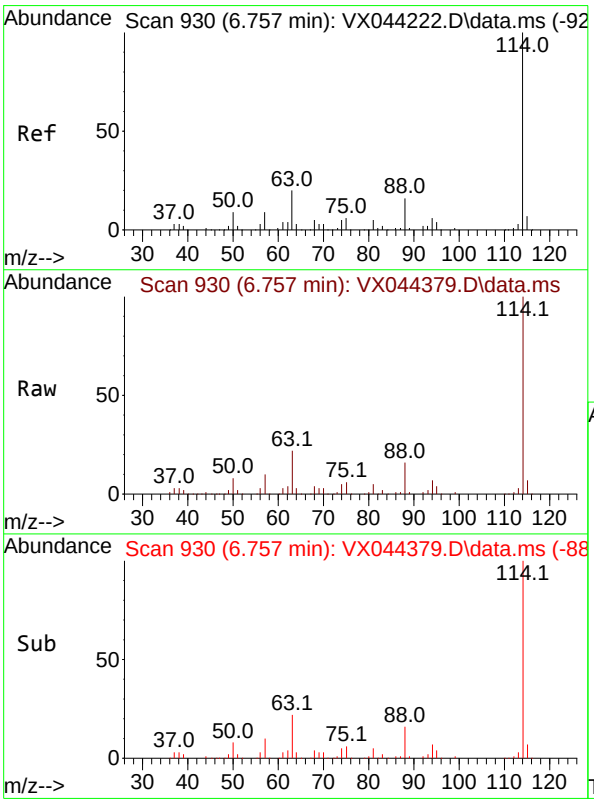
#33
1,2-Dichloroethane-d4
Concen: 46.783 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 65 Resp: 121233

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	101.6

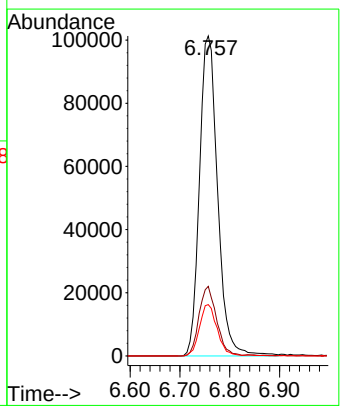


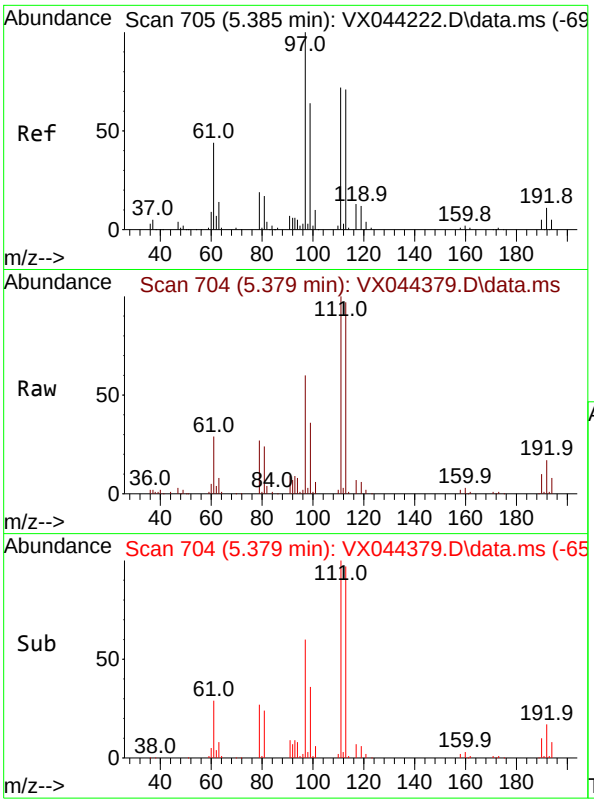


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:114 Resp: 256001

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	40.6
88	16.1	0.0	31.8



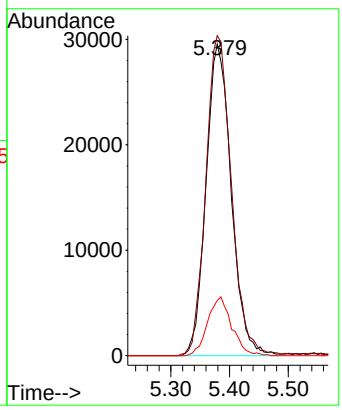


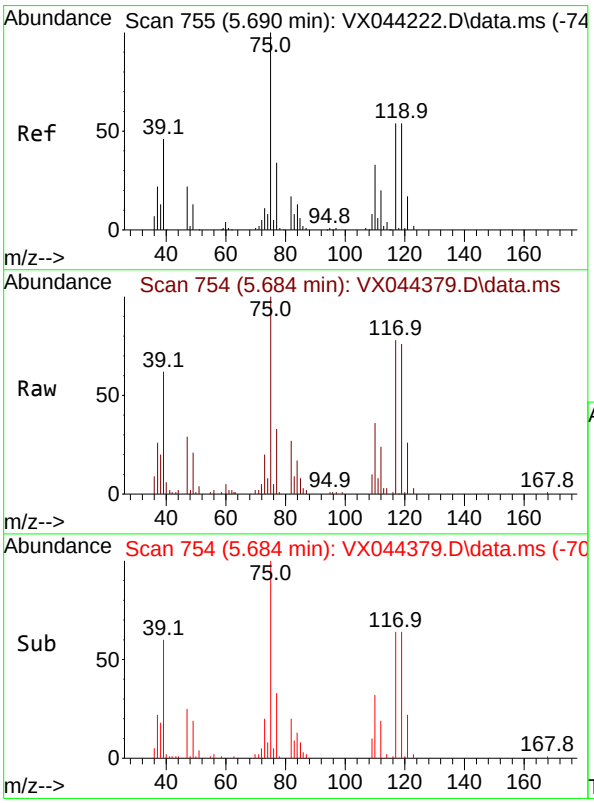
#35
Dibromofluoromethane
Concen: 49.670 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:113 Resp: 88067

Ion	Ratio	Lower	Upper
113	100		
111	103.9	80.4	120.6
192	18.1	13.3	19.9

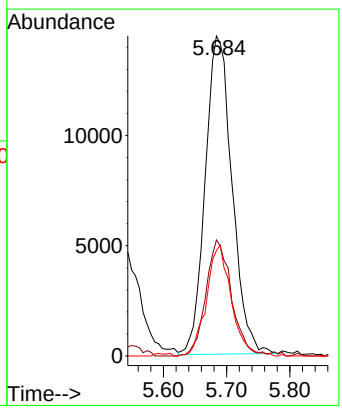


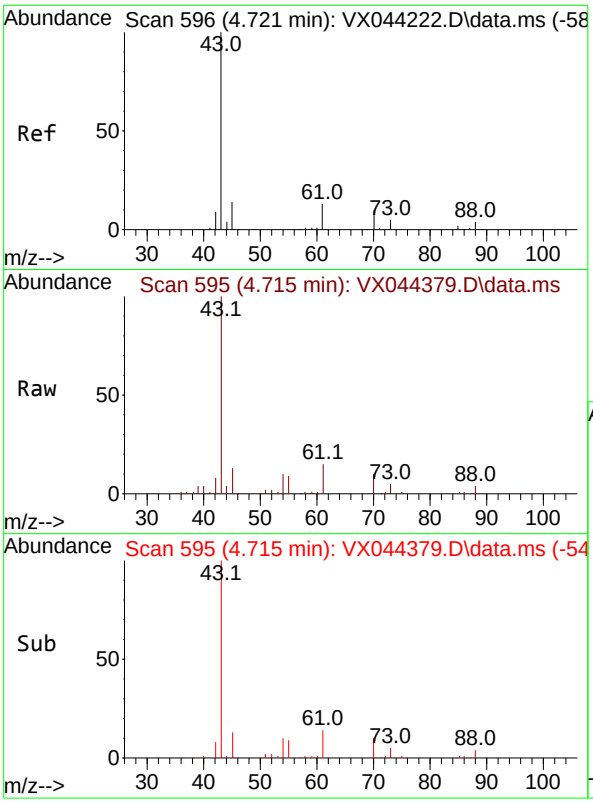


#36
1,1-Dichloropropene
Concen: 18.548 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 42509

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.3	51.7
77	32.2	25.4	38.0



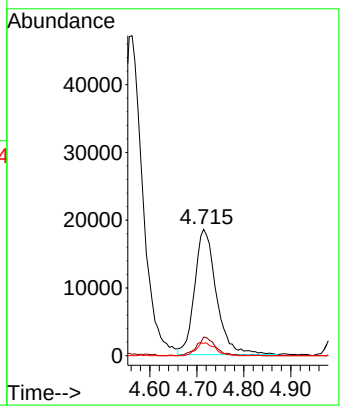


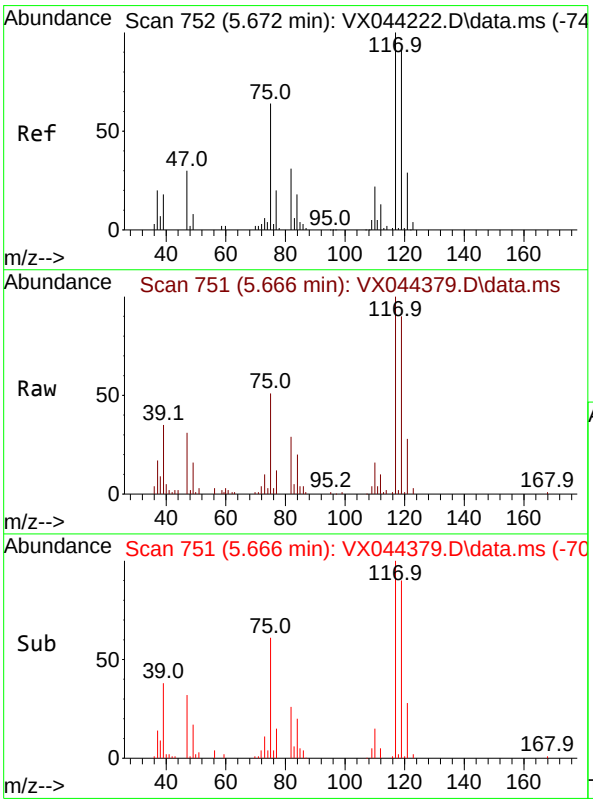
#37
Ethyl Acetate
Concen: 20.982 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 43 Resp: 59443

Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.8	14.8
70	9.0	7.7	11.5

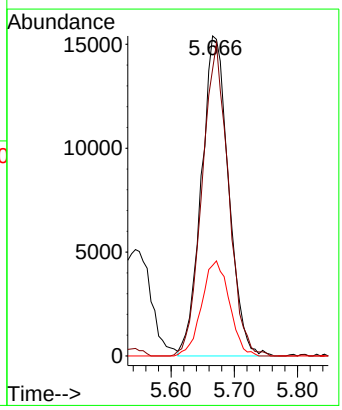


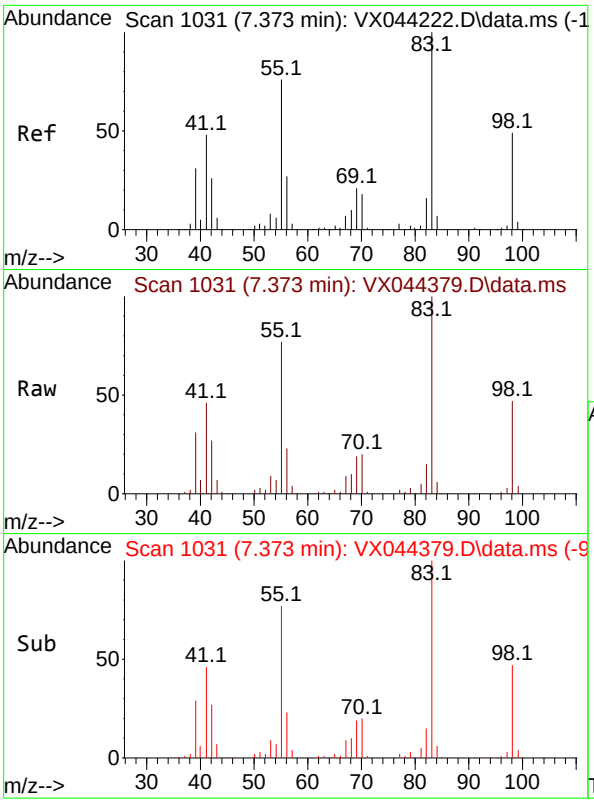


#38
Carbon Tetrachloride
Concen: 18.667 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:117 Resp: 46061

Ion	Ratio	Lower	Upper
117	100		
119	89.6	74.2	111.4
121	28.3	23.0	34.6



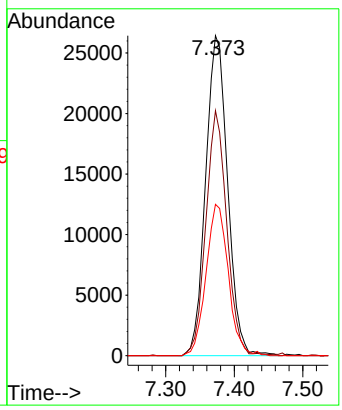


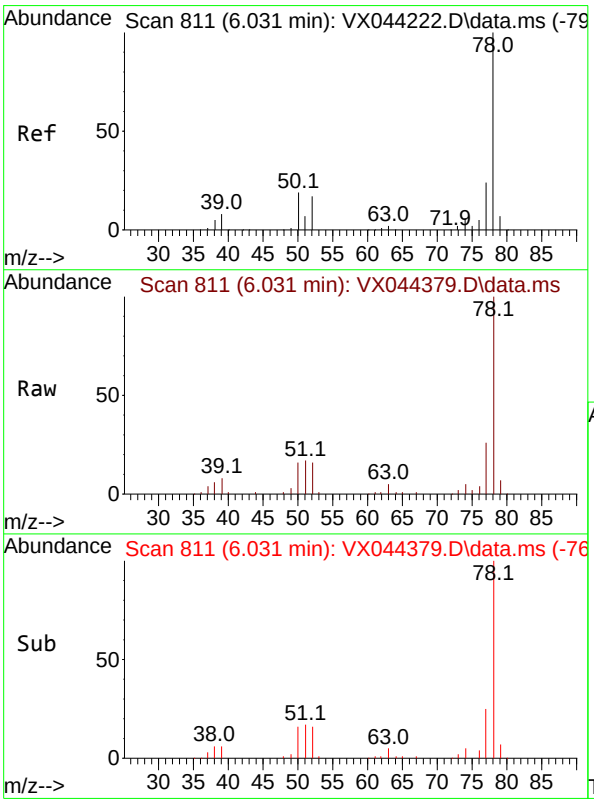
#39
Methylcyclohexane
Concen: 21.483 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 83 Resp: 58860

Ion	Ratio	Lower	Upper
83	100		
55	76.6	60.7	91.1
98	47.3	38.9	58.3

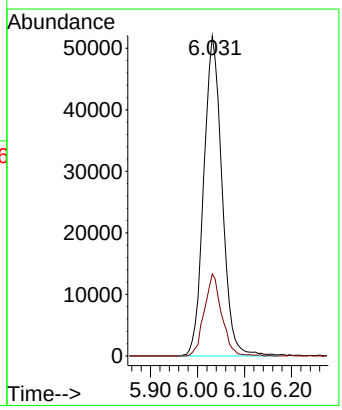


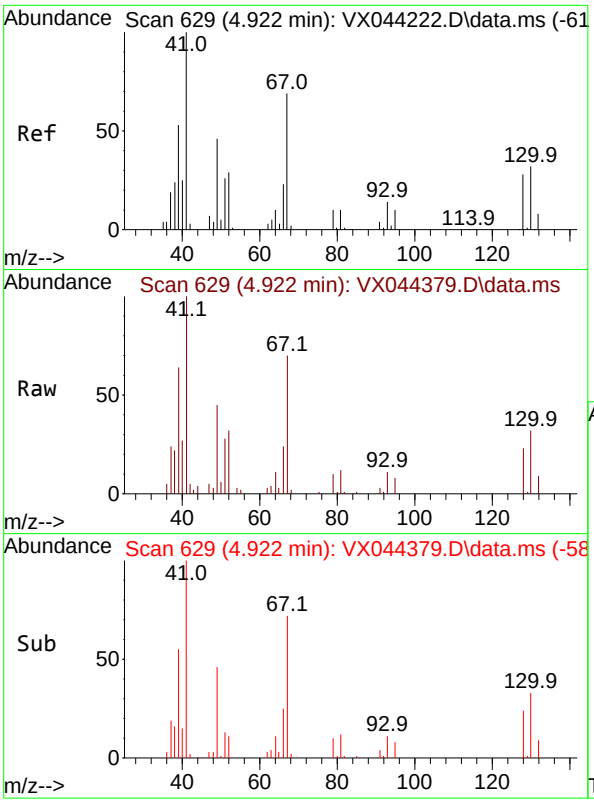


#40
Benzene
Concen: 20.216 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 78 Resp: 140673

Ion	Ratio	Lower	Upper
78	100		
77	25.6	19.3	28.9



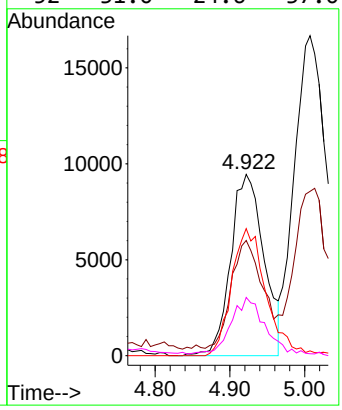


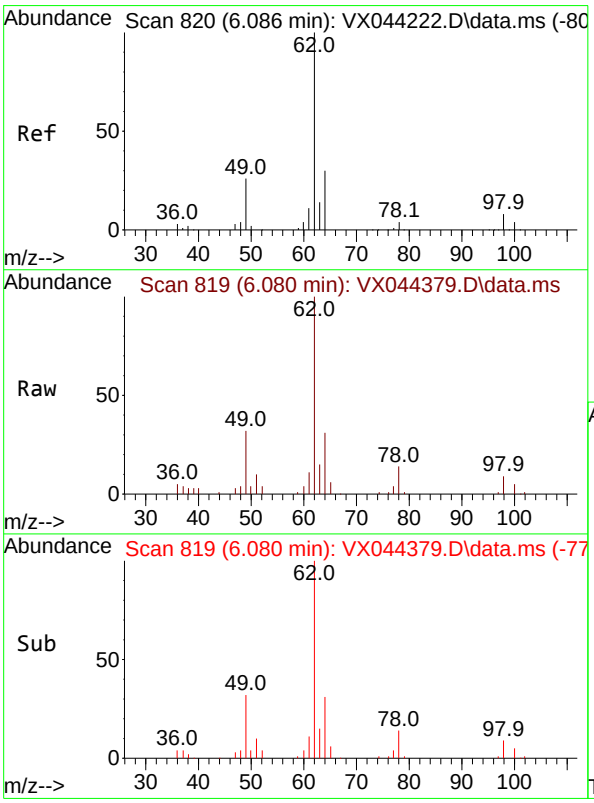
#41
Methacrylonitrile
Concen: 19.444 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 41 Resp: 29251

Ion	Ratio	Lower	Upper
41	100		
39	59.2	44.2	66.4
67	73.1	57.2	85.8
52	31.0	24.6	37.0

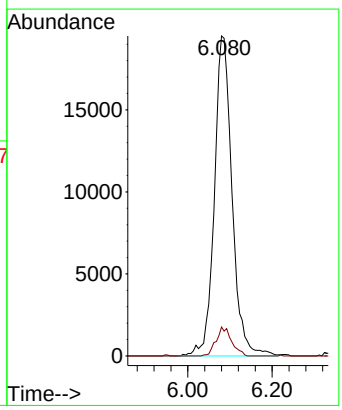


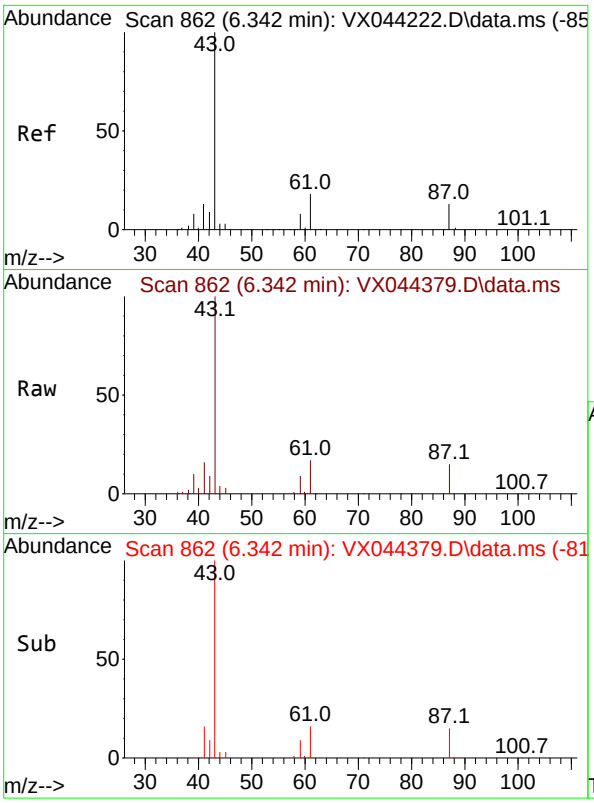


#42
1,2-Dichloroethane
Concen: 19.764 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 62 Resp: 56652

Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8



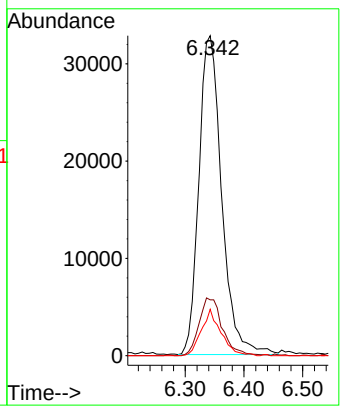


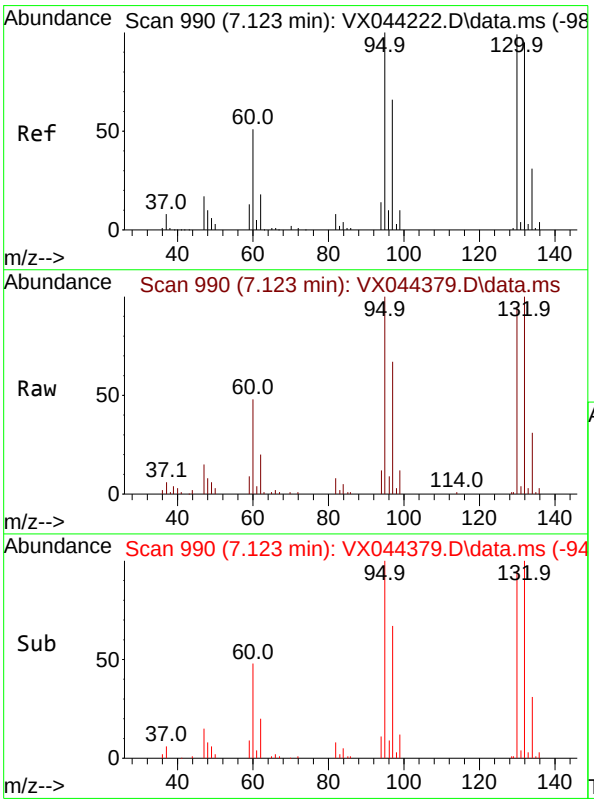
#43
Isopropyl Acetate
Concen: 20.015 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 43 Resp: 88627

Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.2	21.2
87	12.5	10.2	15.2

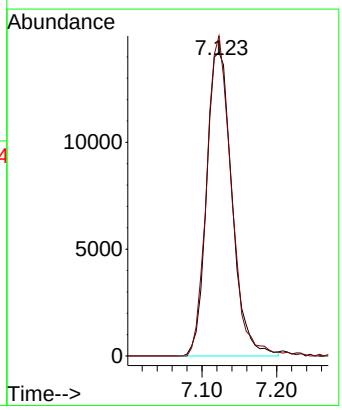


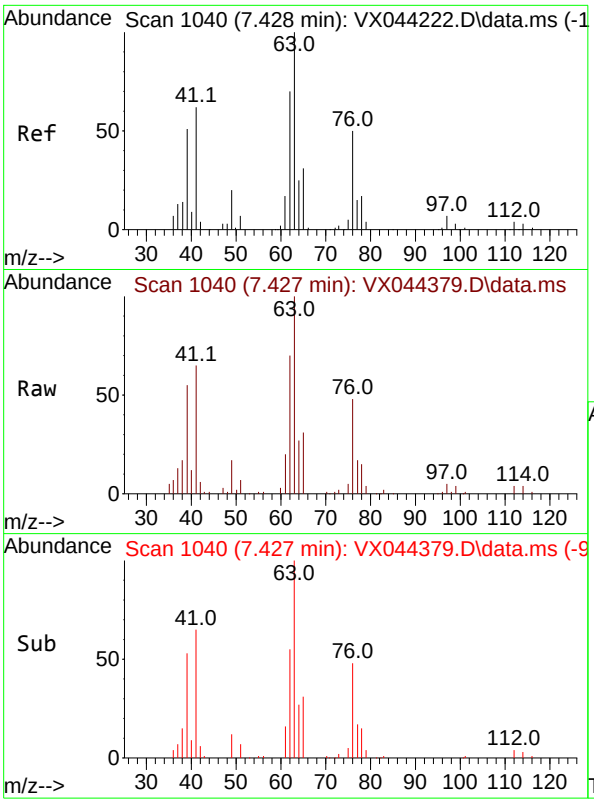


#44
Trichloroethene
Concen: 19.425 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:130 Resp: 33708

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	201.4



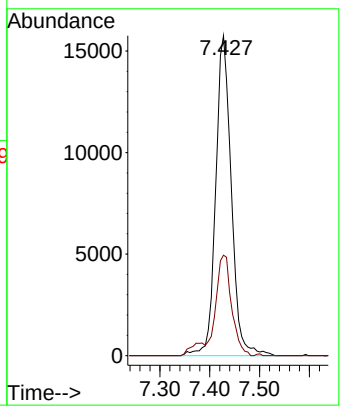


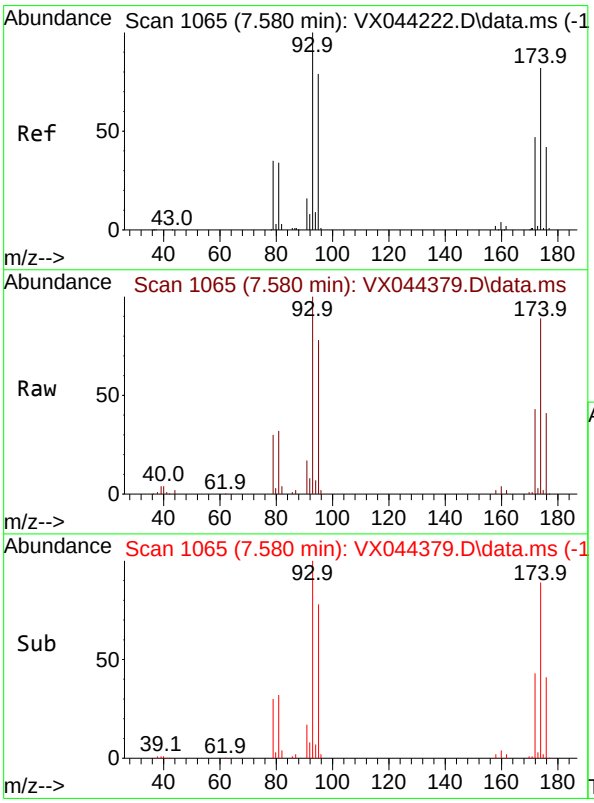
#45
1,2-Dichloropropane
Concen: 19.281 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 63 Resp: 34278

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.6	37.0

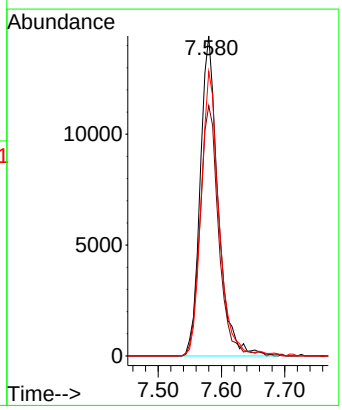


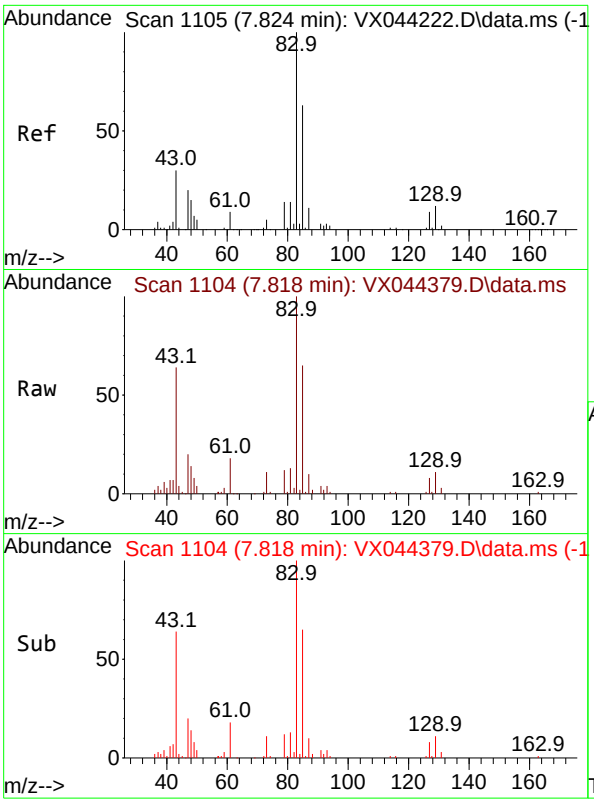


#46
Dibromomethane
Concen: 20.550 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 93 Resp: 28343

Ion	Ratio	Lower	Upper
93	100		
95	81.6	65.4	98.2
174	88.3	67.9	101.9



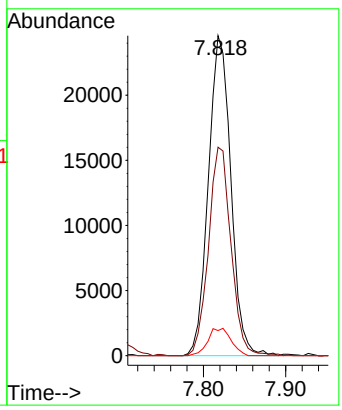


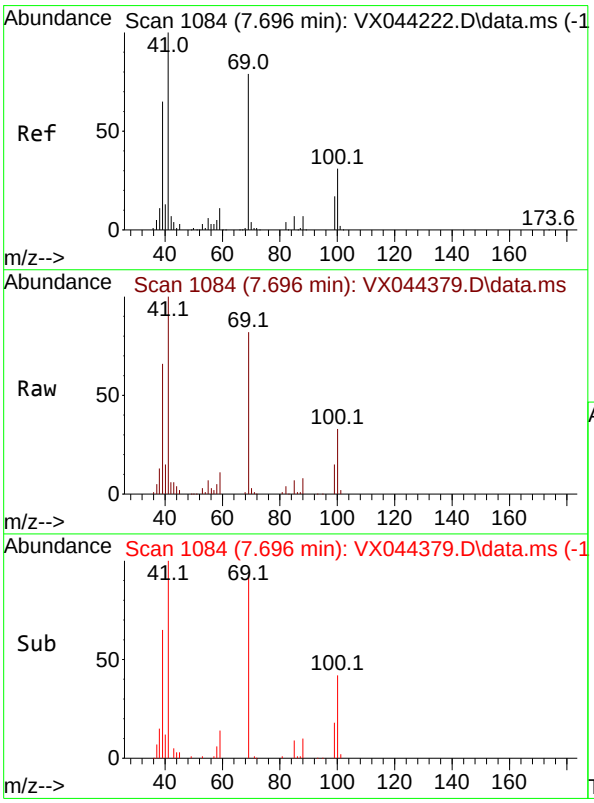
#47
Bromodichloromethane
Concen: 19.606 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 83 Resp: 46701

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.6	75.8
127	7.9	7.3	10.9

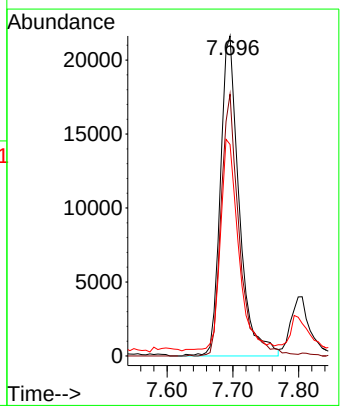


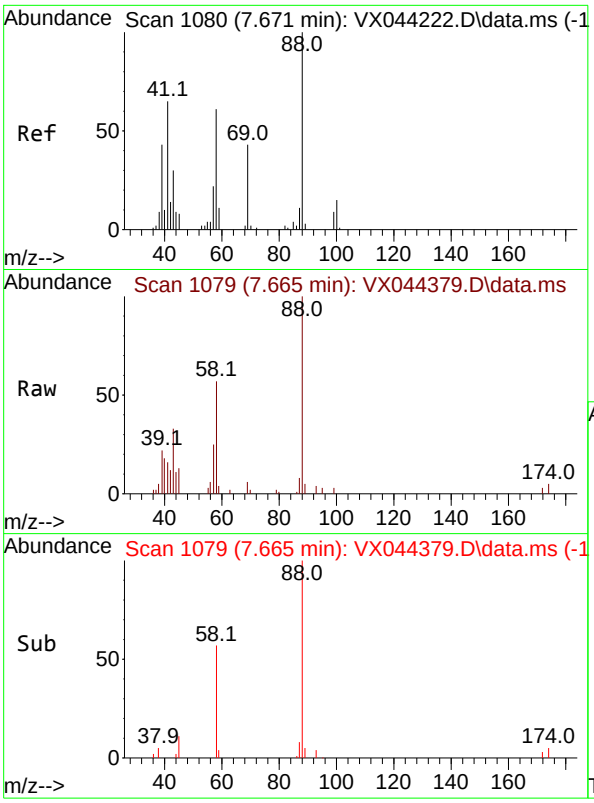


#48
Methyl methacrylate
Concen: 19.992 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 41 Resp: 42973

Ion	Ratio	Lower	Upper
41	100		
69	79.4	62.4	93.6
39	64.8	53.3	79.9



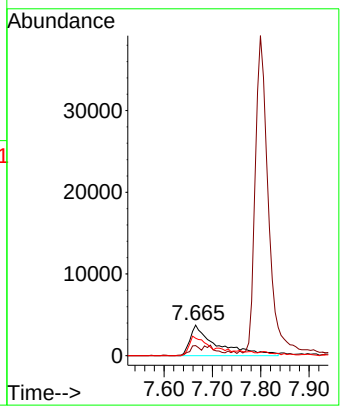


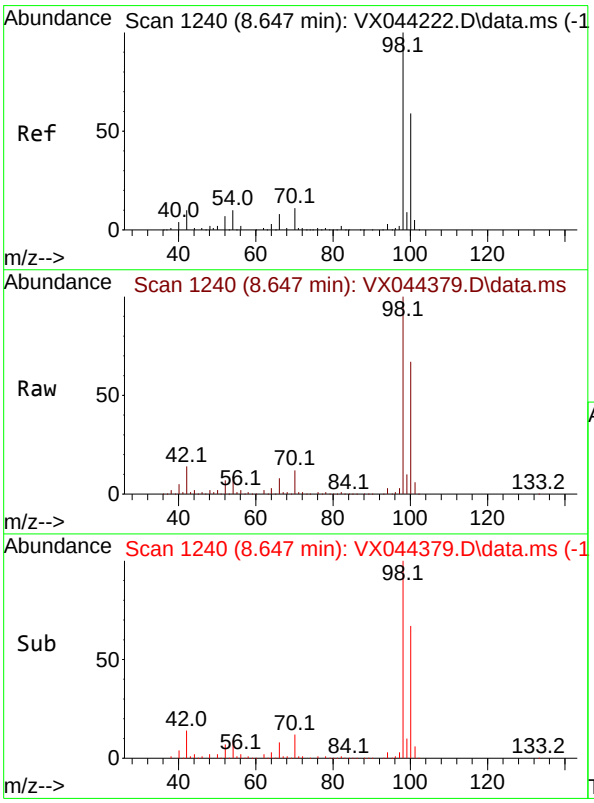
#49
1,4-Dioxane
Concen: 403.813 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 88 Resp: 14391

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.1	40.7#
58	39.1	41.0	61.4#

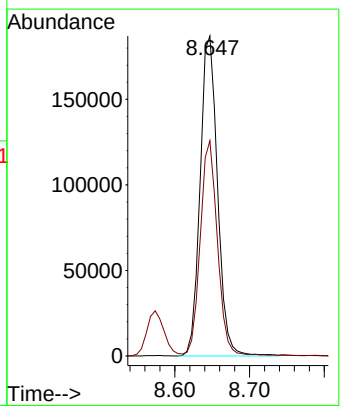


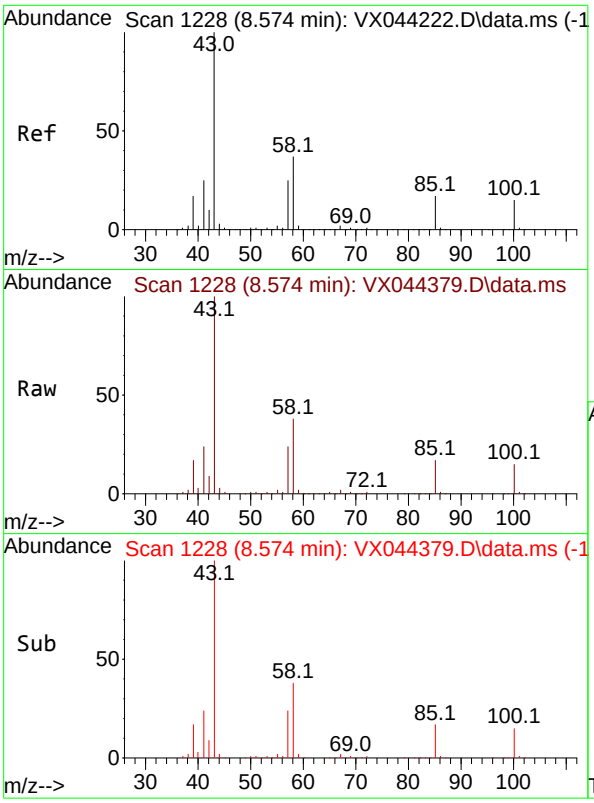


#50
Toluene-d8
Concen: 50.593 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 98 Resp: 302636

Ion	Ratio	Lower	Upper
98	100		
100	66.4	51.5	77.3



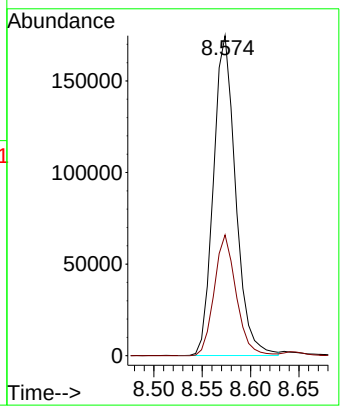


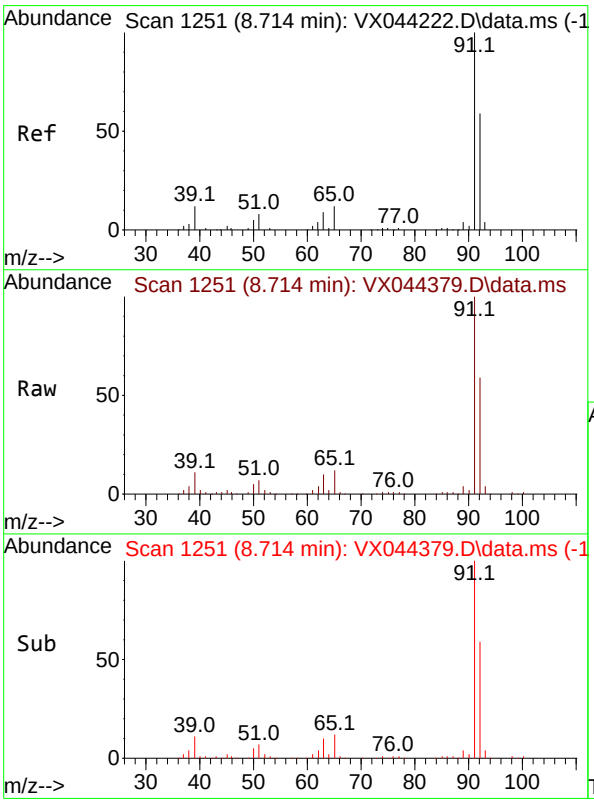
#51
4-Methyl-2-Pentanone
Concen: 97.665 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 43 Resp: 278065

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0

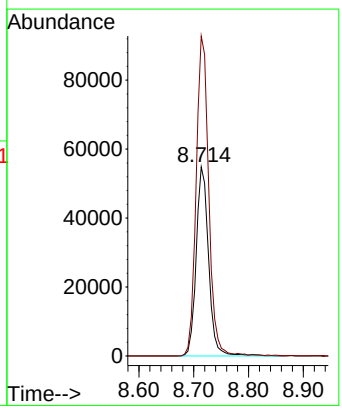


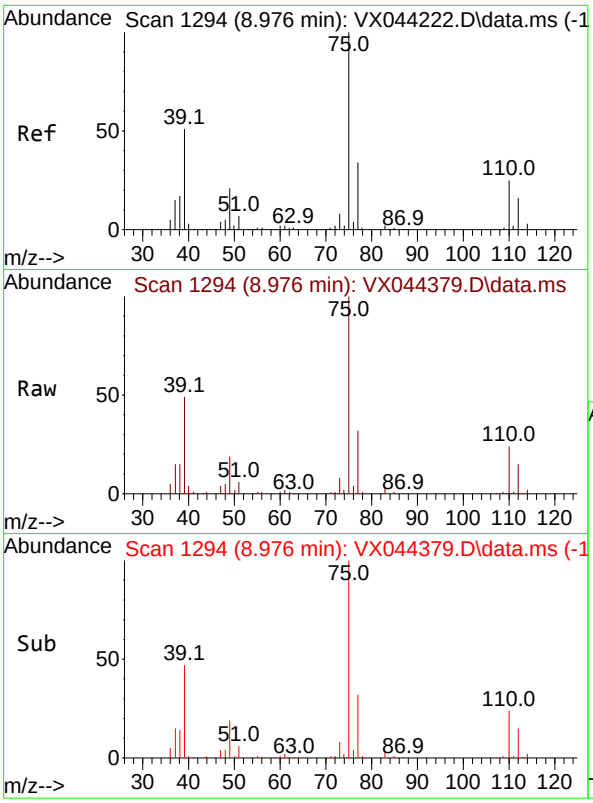


#52
Toluene
Concen: 19.782 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 92 Resp: 86445

Ion	Ratio	Lower	Upper
92	100		
91	171.9	137.0	205.6



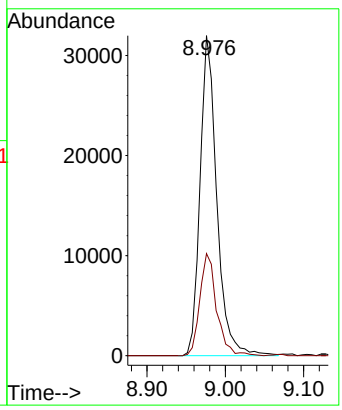


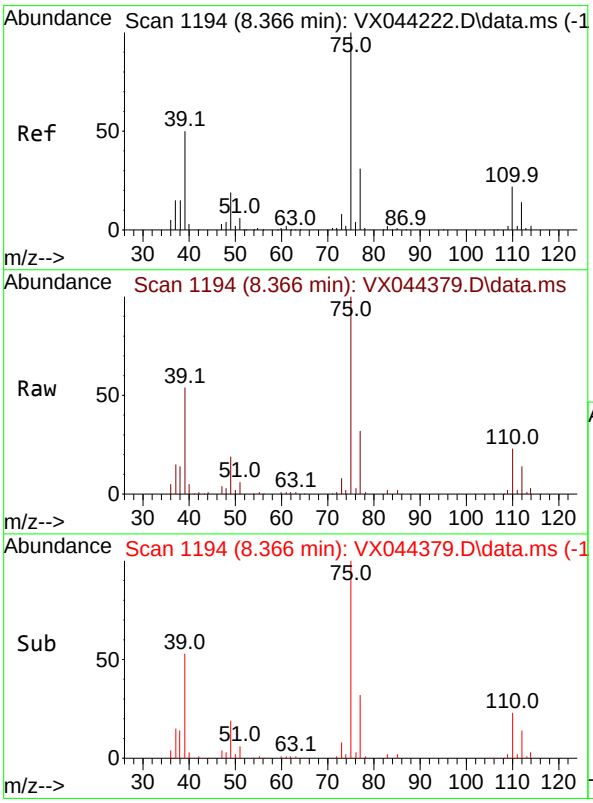
#53
t-1,3-Dichloropropene
Concen: 19.754 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 75 Resp: 47425

Ion	Ratio	Lower	Upper
75	100		
77	31.9	27.2	40.8

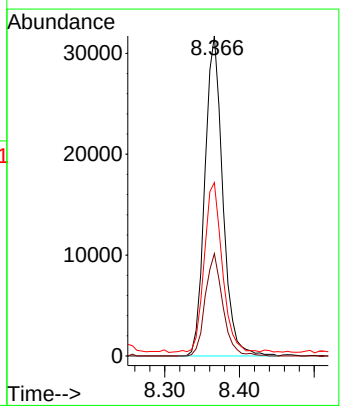


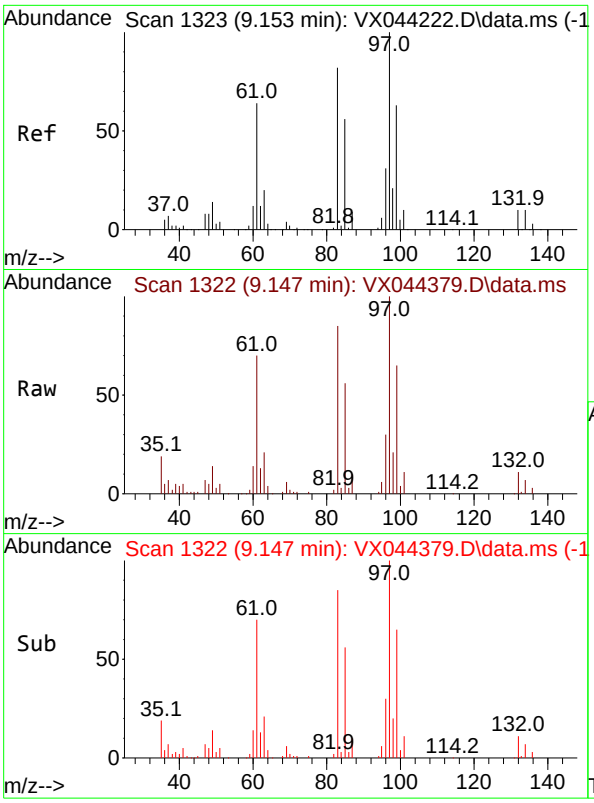


#54
cis-1,3-Dichloropropene
Concen: 20.390 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 52882

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.7	37.1
39	52.8	40.3	60.5



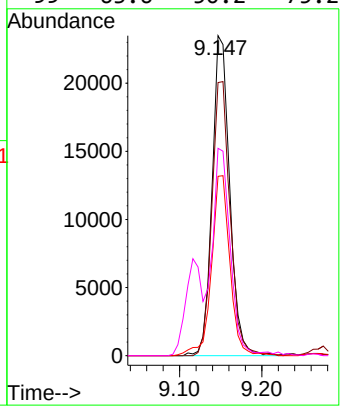


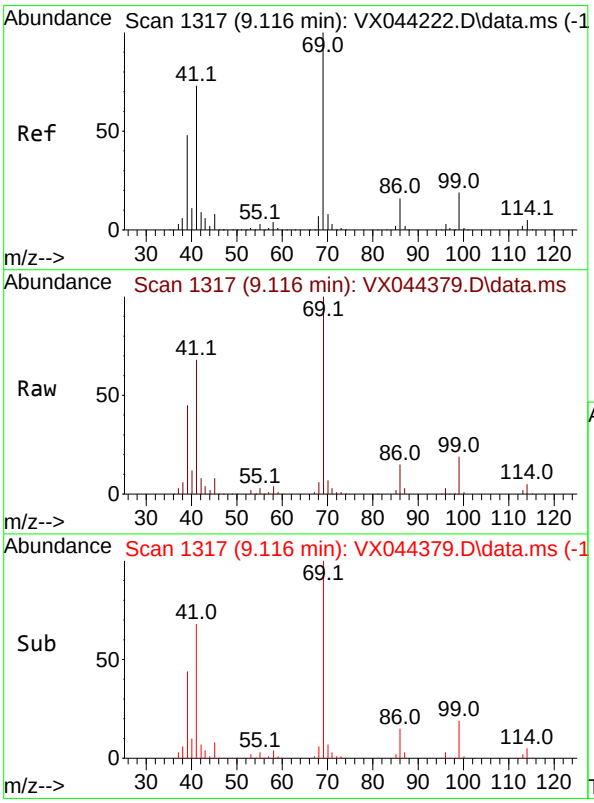
#55
1,1,2-Trichloroethane
Concen: 20.163 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 97 Resp: 35003

Ion	Ratio	Lower	Upper
97	100		
83	85.4	65.3	97.9
85	55.8	44.6	67.0
99	63.6	50.2	75.2

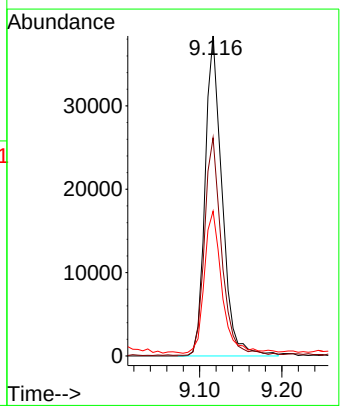


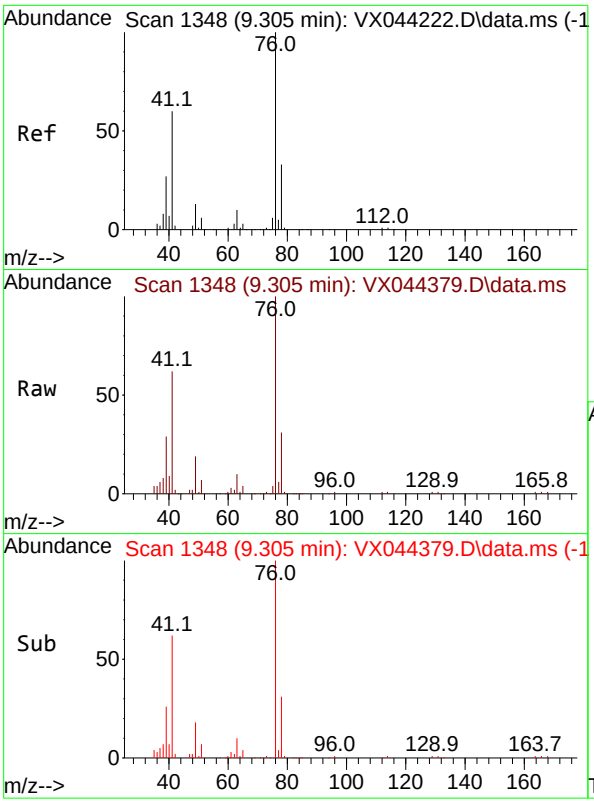


#56
Ethyl methacrylate
Concen: 20.118 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 69 Resp: 55135

Ion	Ratio	Lower	Upper
69	100		
41	68.5	56.6	85.0
39	45.6	37.4	56.0



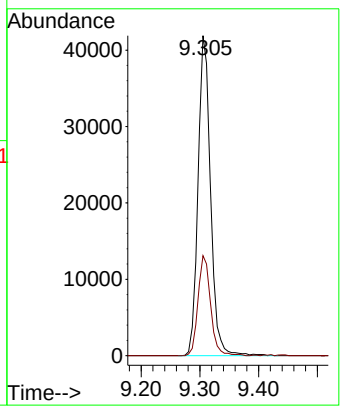


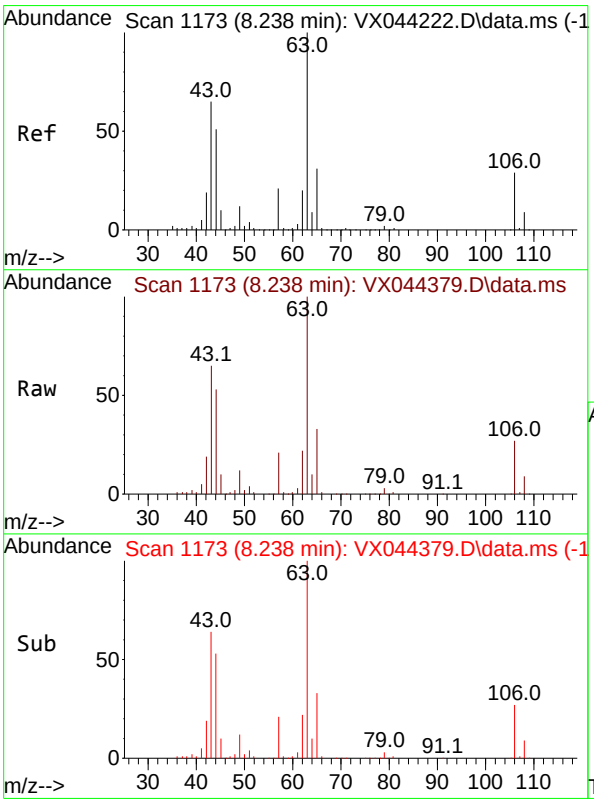
#57
1,3-Dichloropropane
Concen: 20.523 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 76 Resp: 62014

Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.5	39.7

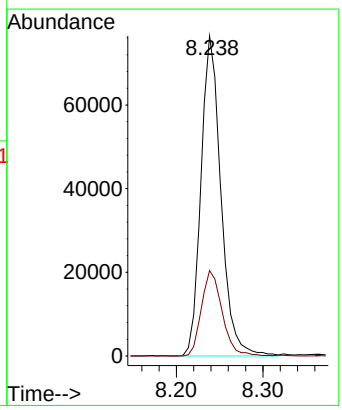


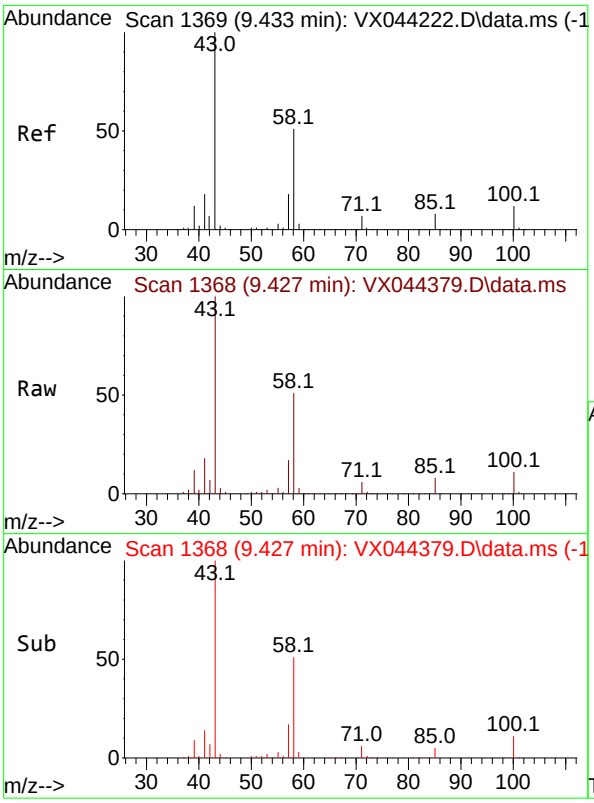


#58
2-Chloroethyl Vinyl ether
Concen: 88.570 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 63 Resp: 122427

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.8	34.2



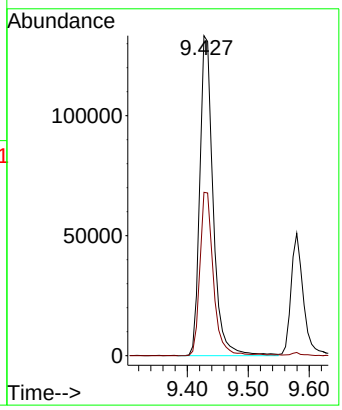


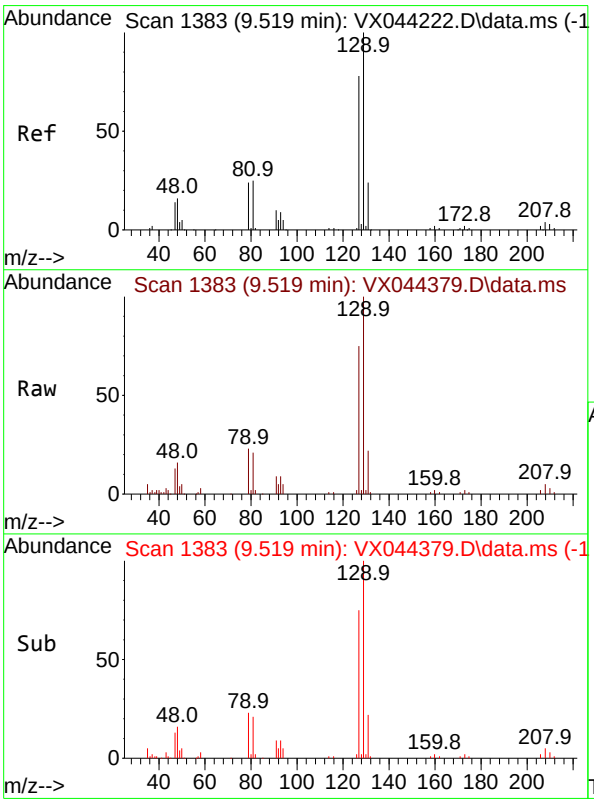
#59
2-Hexanone
Concen: 98.576 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 43 Resp: 203147

Ion	Ratio	Lower	Upper
43	100		
58	51.2	25.7	77.0

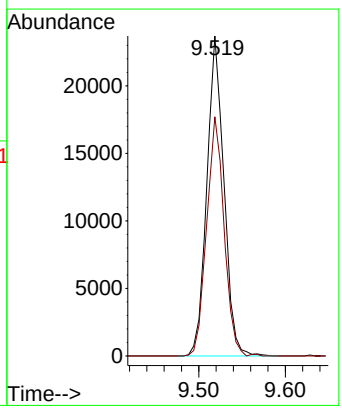


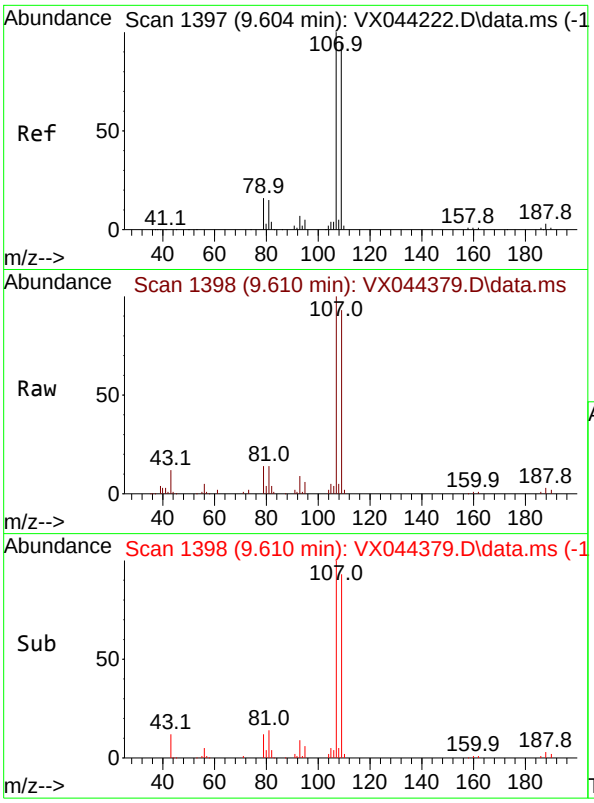


#60
Dibromochloromethane
Concen: 18.934 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:129 Resp: 32432

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.5	115.3



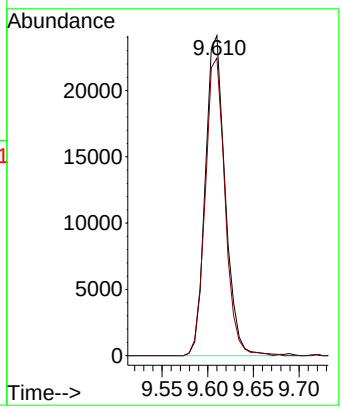


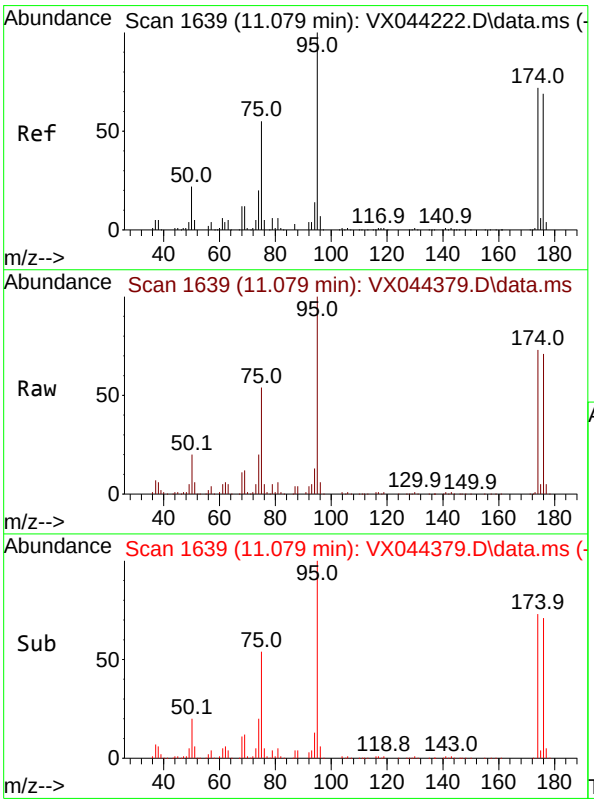
#61
1,2-Dibromoethane
Concen: 20.544 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:107 Resp: 36303

Ion	Ratio	Lower	Upper
107	100		
109	93.2	77.0	115.4

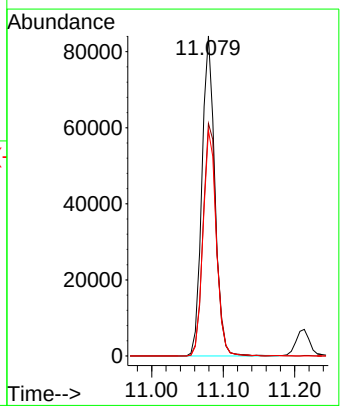


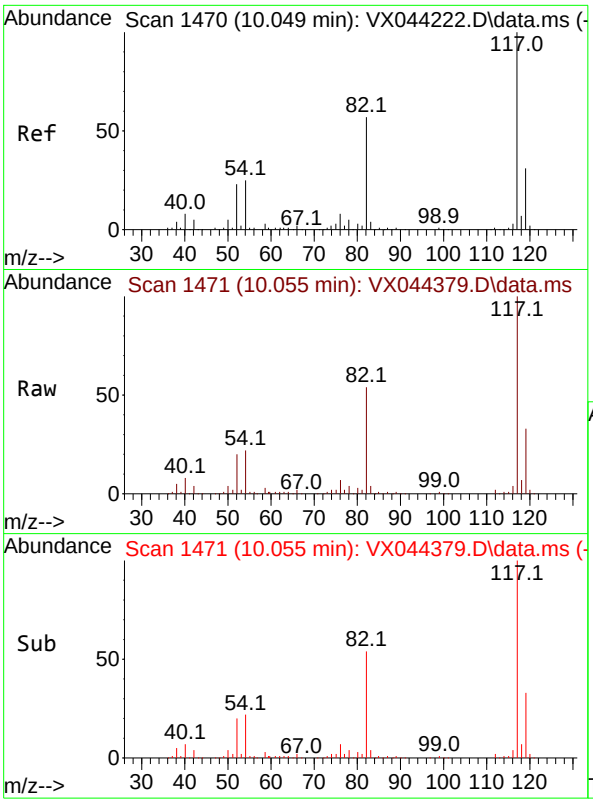


#62
4-Bromofluorobenzene
Concen: 50.581 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 95 Resp: 105722

Ion	Ratio	Lower	Upper
95	100		
174	75.0	0.0	145.8
176	72.1	0.0	137.8



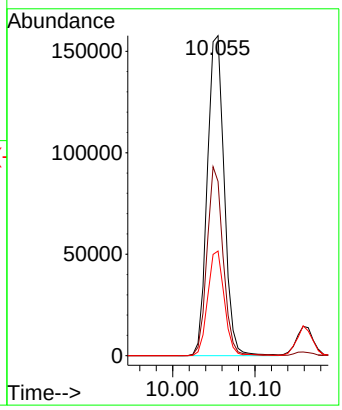


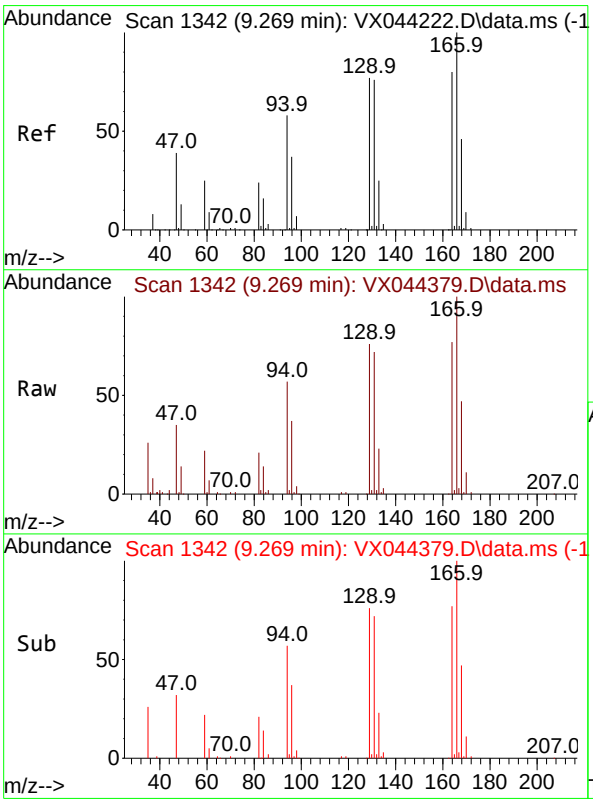
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:117 Resp: 224705

Ion	Ratio	Lower	Upper
117	100		
82	54.4	45.8	68.8
119	32.7	25.0	37.4

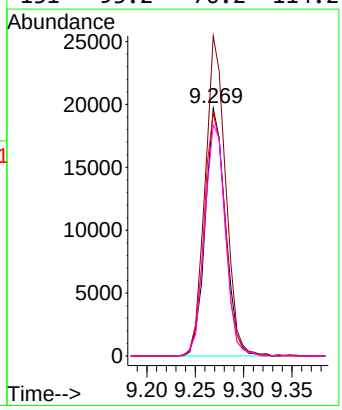


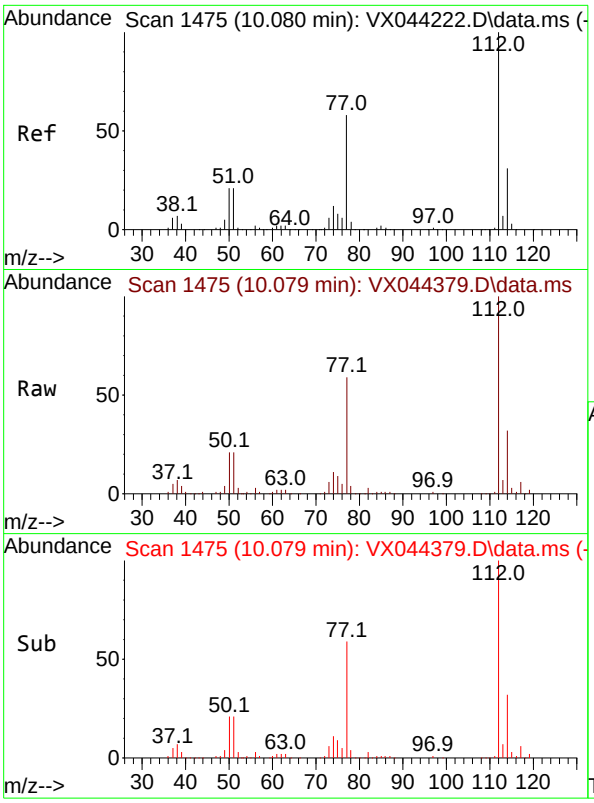


#64
Tetrachloroethene
Concen: 19.232 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:164 Resp: 28683

Ion	Ratio	Lower	Upper
164	100		
166	129.2	100.4	150.6
129	97.9	77.2	115.8
131	93.2	76.2	114.2



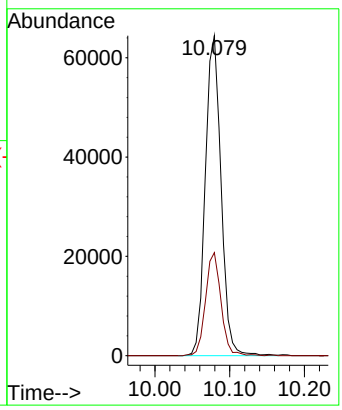


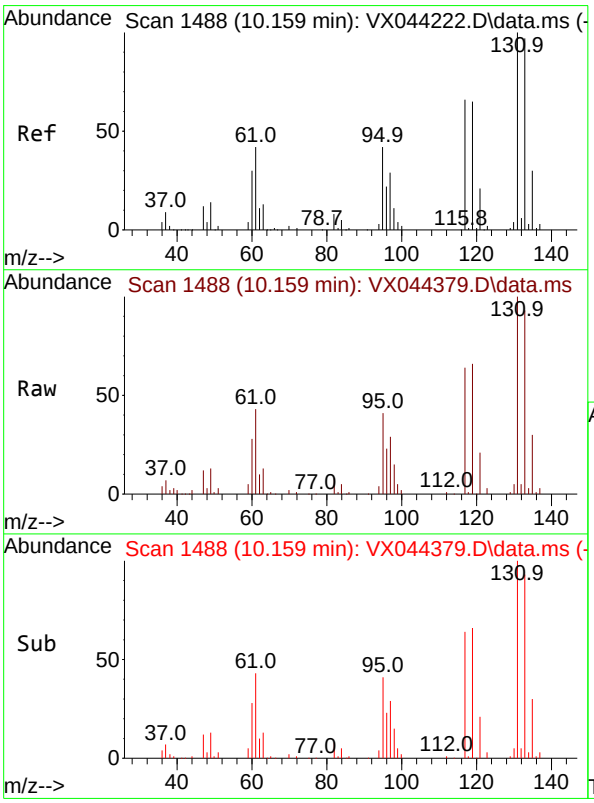
#65
Chlorobenzene
Concen: 19.550 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:112 Resp: 94134

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.0	37.6

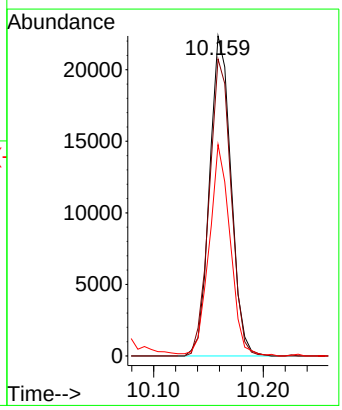


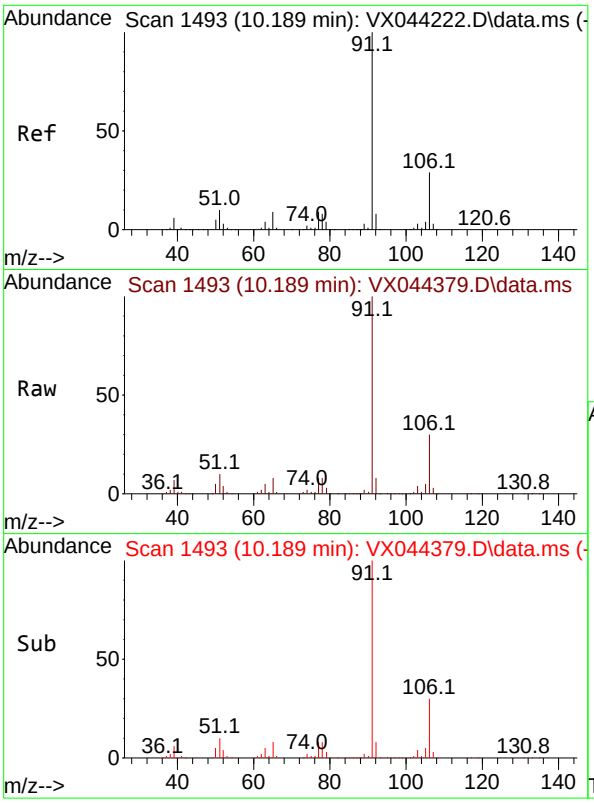


#66
1,1,1,2-Tetrachloroethane
Concen: 19.624 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:131 Resp: 30368

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	141.8
119	64.6	31.6	95.0



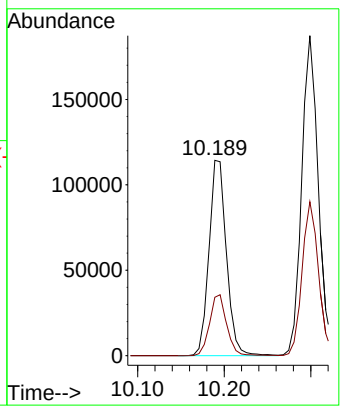


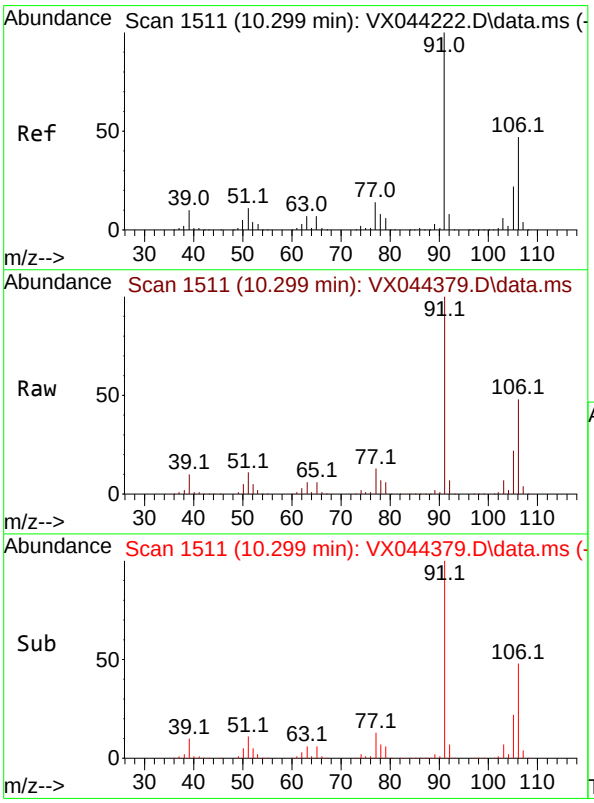
#67
Ethyl Benzene
Concen: 19.228 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 91 Resp: 159963

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.5	35.3

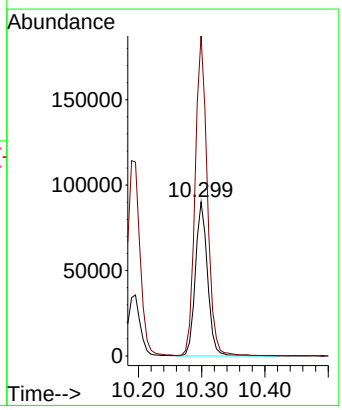


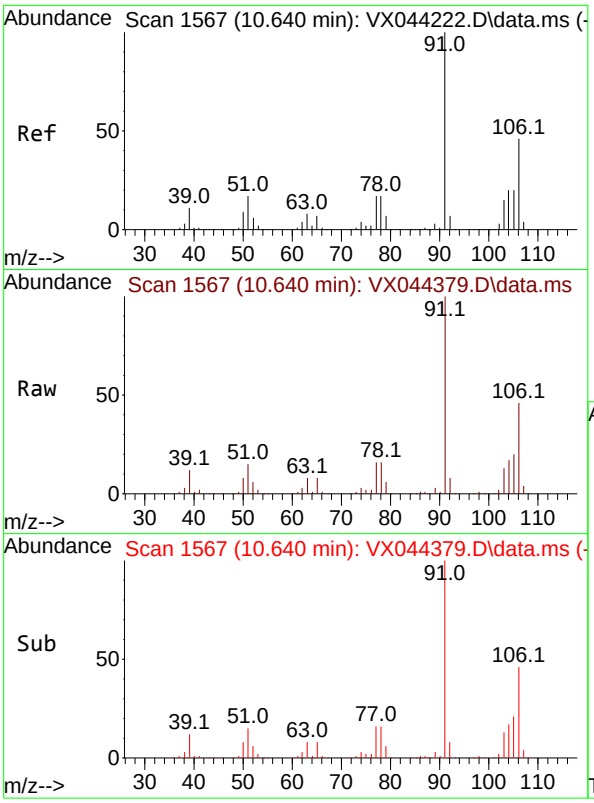


#68
m/p-Xylenes
Concen: 39.546 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:106 Resp: 120723

Ion	Ratio	Lower	Upper
106	100		
91	207.6	170.2	255.2



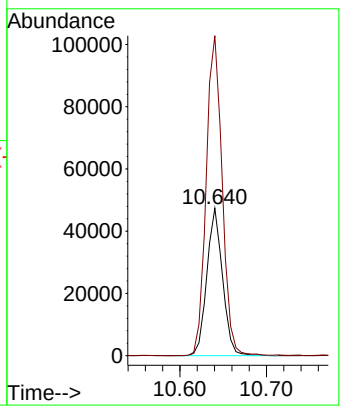


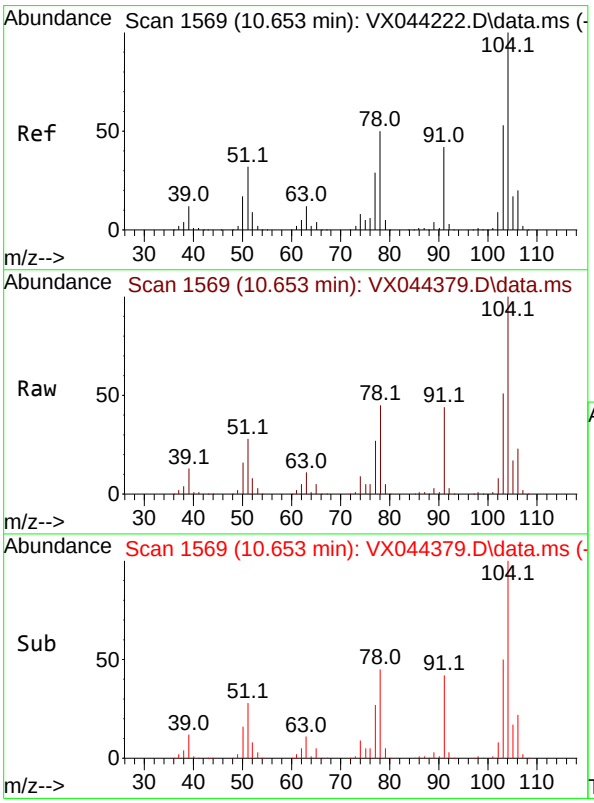
#69
o-Xylene
Concen: 19.328 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:106 Resp: 59698

Ion	Ratio	Lower	Upper
106	100		
91	221.0	112.3	337.0

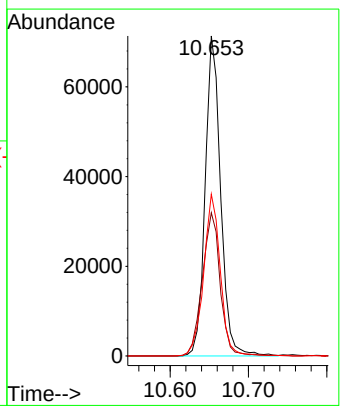


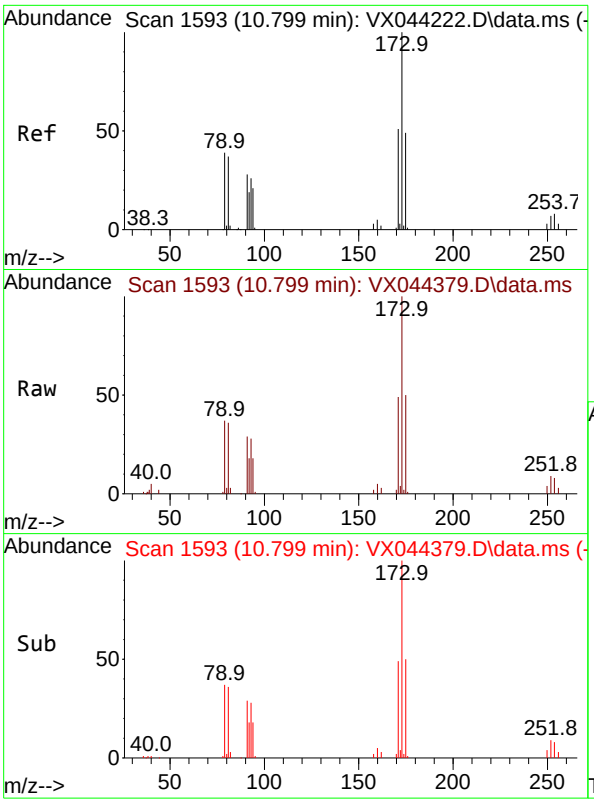


#70
Styrene
Concen: 19.741 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:104 Resp: 97751

Ion	Ratio	Lower	Upper
104	100		
78	51.8	44.6	67.0
103	54.6	45.4	68.0



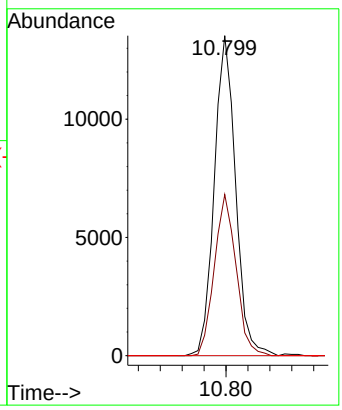


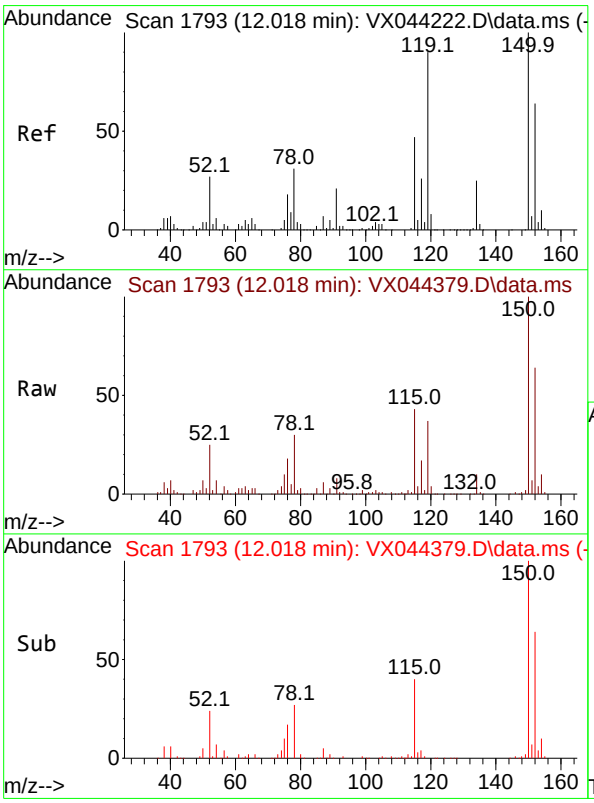
#71
Bromoform
Concen: 18.882 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:173 Resp: 18261

Ion	Ratio	Lower	Upper
173	100		
175	51.5	23.8	71.4
254	0.0	0.0	0.0

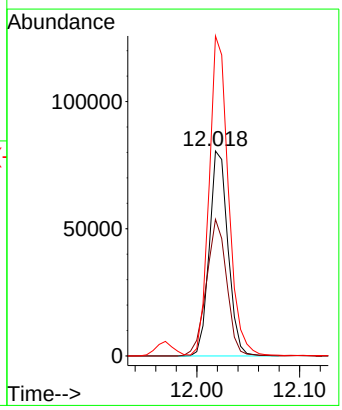


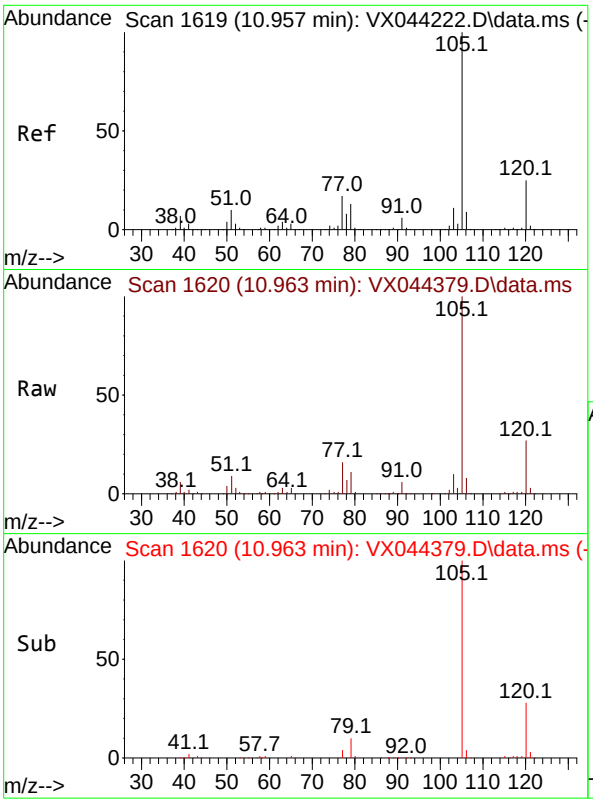


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:152 Resp: 101474

Ion	Ratio	Lower	Upper
152	100		
115	72.2	44.5	133.3
150	161.4	0.0	353.8



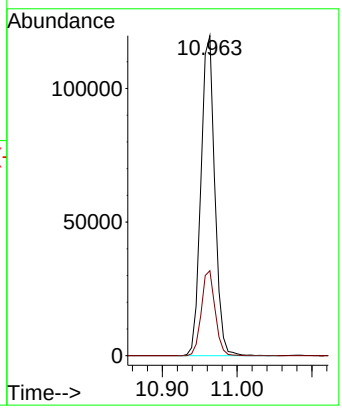


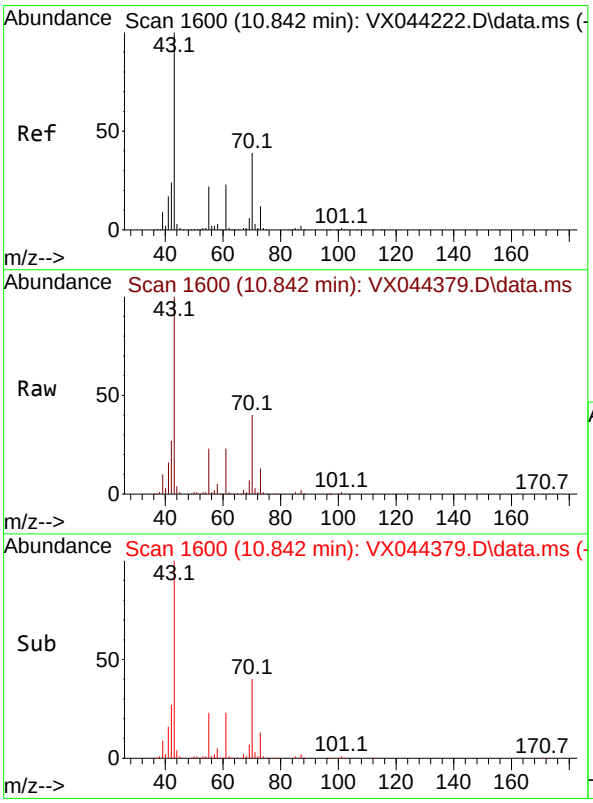
#73
Isopropylbenzene
Concen: 19.814 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:105 Resp: 153918

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.3

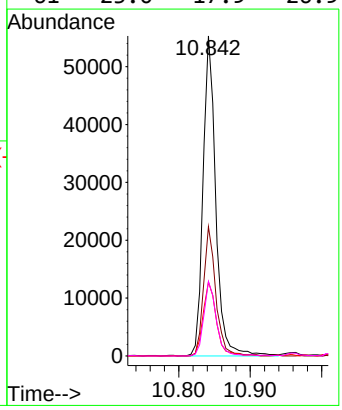


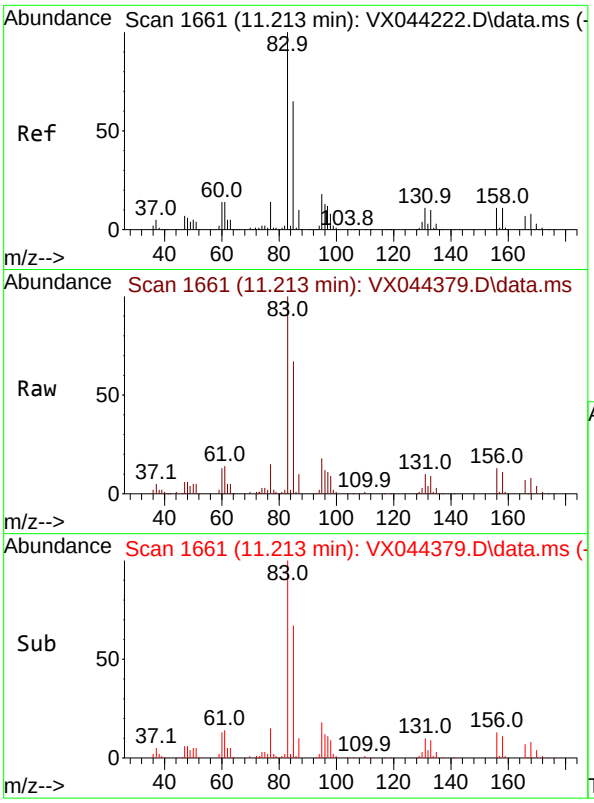


#74
N-amyl acetate
Concen: 19.115 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 43 Resp: 68625

Ion	Ratio	Lower	Upper
43	100		
70	39.3	31.9	47.9
55	24.1	17.9	26.9
61	23.0	17.9	26.9



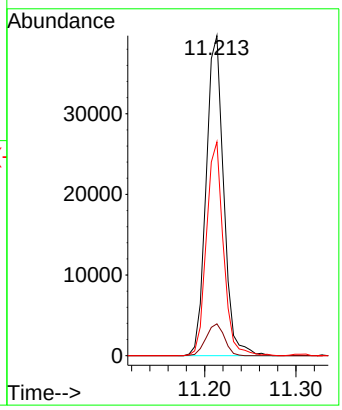


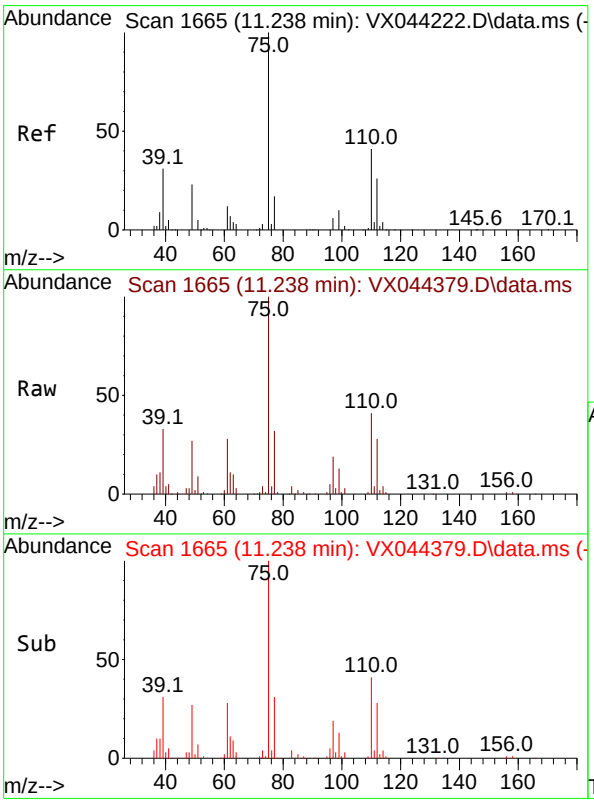
#75
1,1,2,2-Tetrachloroethane
Concen: 19.541 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 83 Resp: 52724

Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.4
85	64.8	32.5	97.4

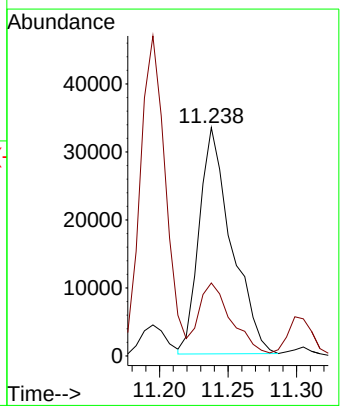


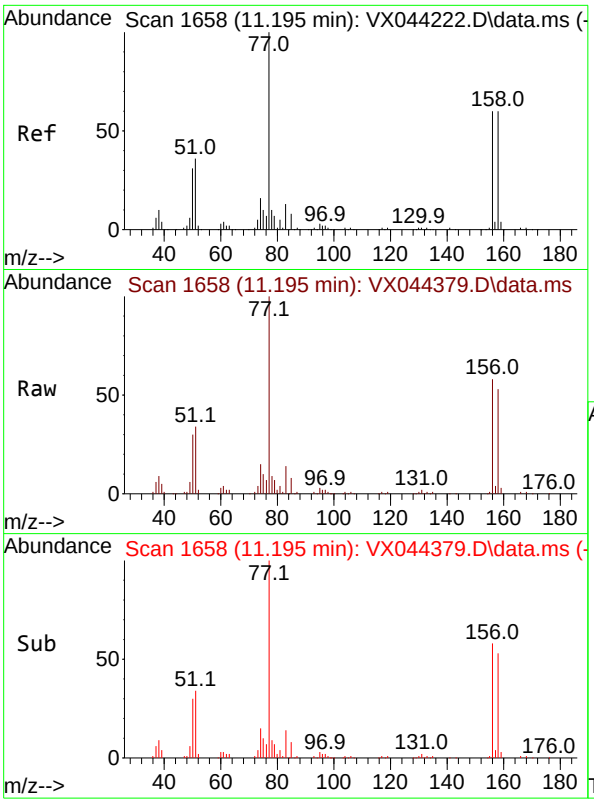


#76
1,2,3-Trichloropropane
Concen: 24.084 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 54567

Ion	Ratio	Lower	Upper
75	100		
77	32.9	20.9	62.7



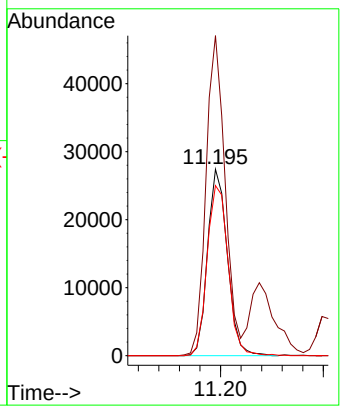


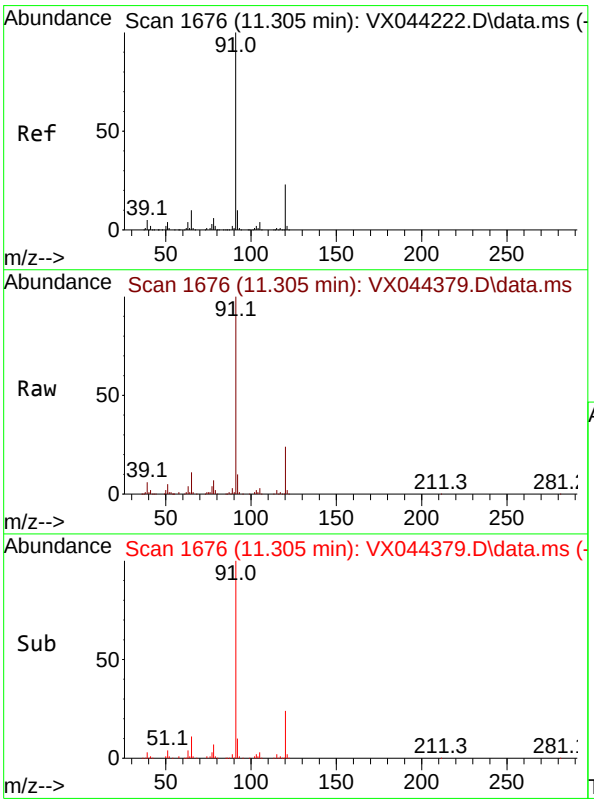
#77
Bromobenzene
Concen: 19.432 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:156 Resp: 36606

Ion	Ratio	Lower	Upper
156	100		
77	165.5	82.6	247.8
158	96.8	48.8	146.4

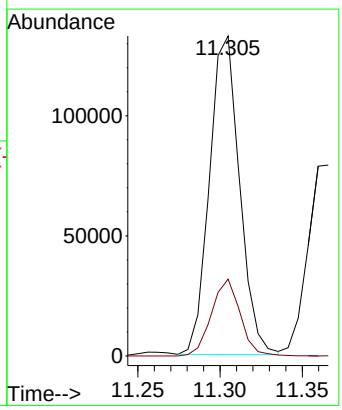


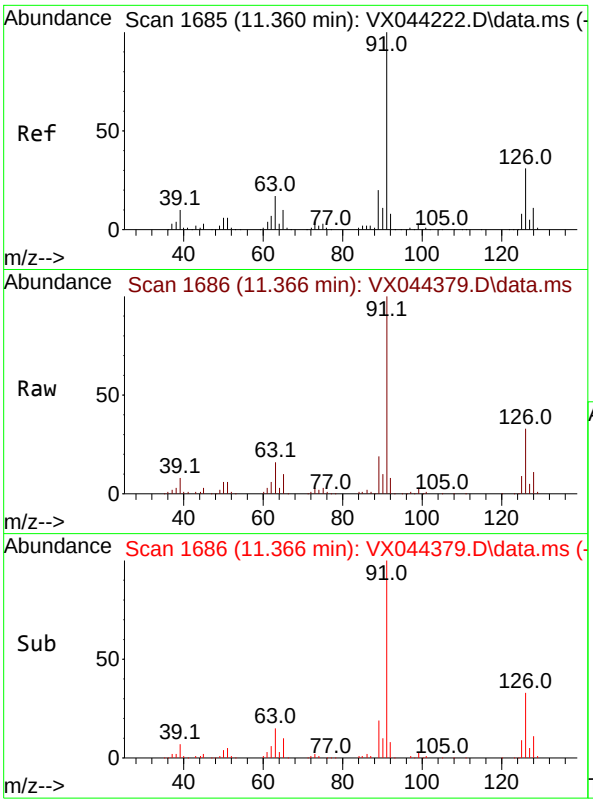


#78
n-propylbenzene
Concen: 19.692 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 91 Resp: 169075

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.0	33.0



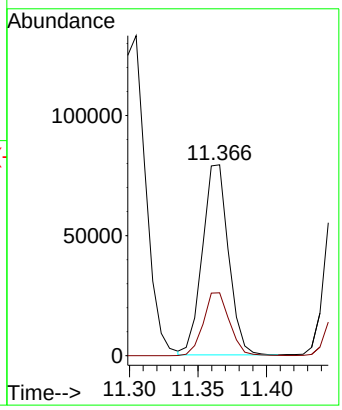


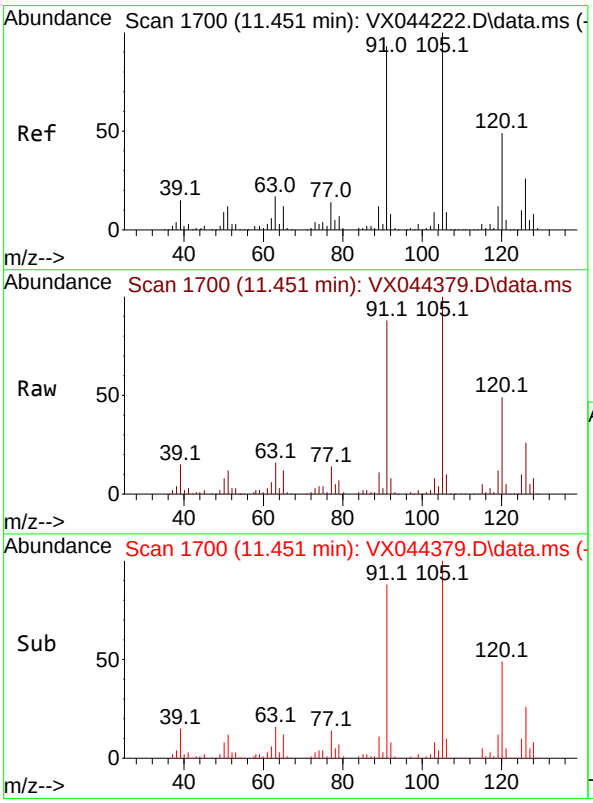
#79
2-Chlorotoluene
Concen: 18.936 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 91 Resp: 105145

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.4	49.1

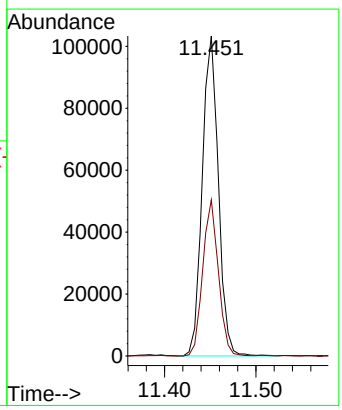


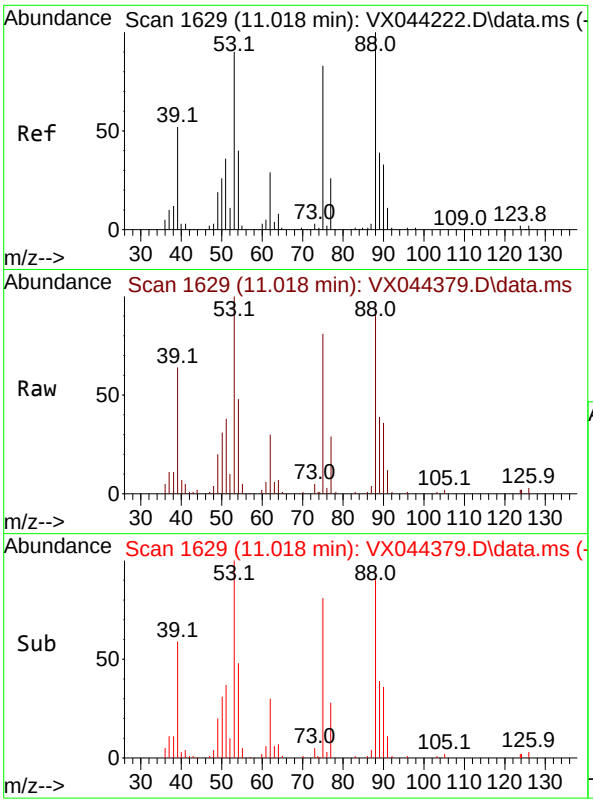


#80
1,3,5-Trimethylbenzene
Concen: 19.595 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:105 Resp: 126232

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	71.4



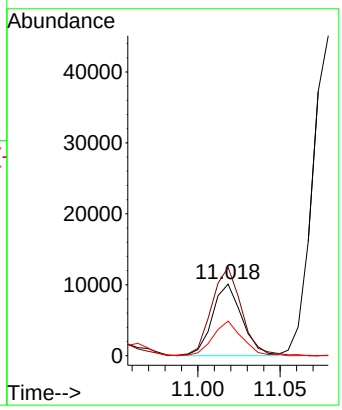


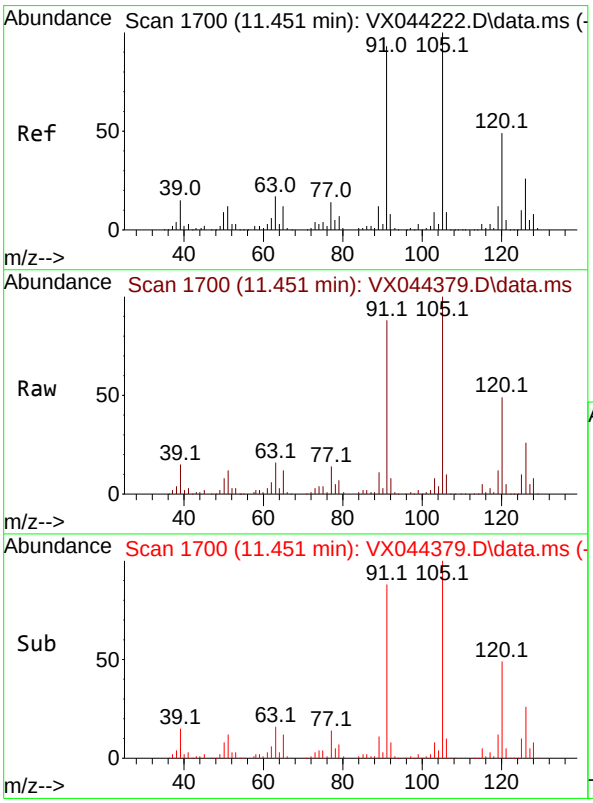
#81
trans-1,4-Dichloro-2-butene
Concen: 19.831 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 75 Resp: 12684

Ion	Ratio	Lower	Upper
75	100		
53	124.4	93.6	140.4
89	47.3	37.3	55.9

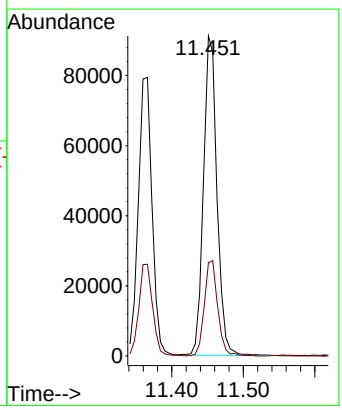


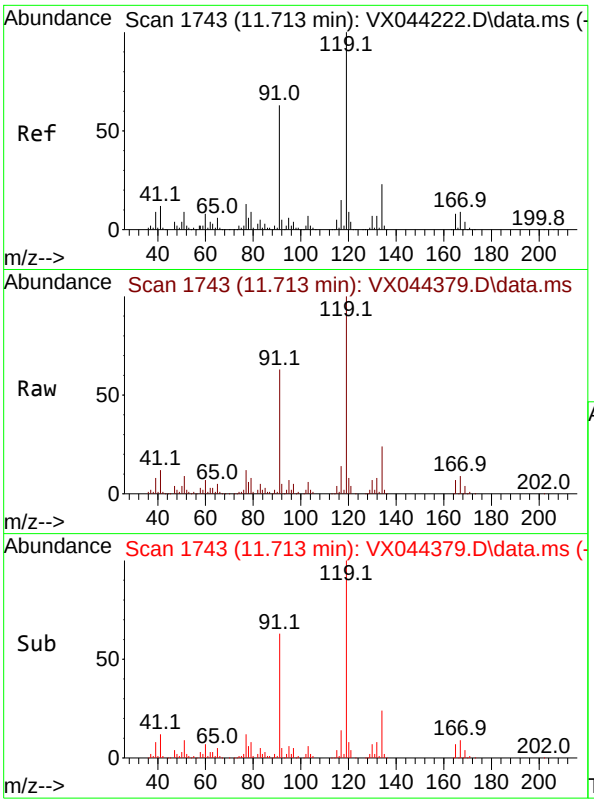


#82
4-Chlorotoluene
Concen: 19.467 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 91 Resp: 119703

Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.5	43.5



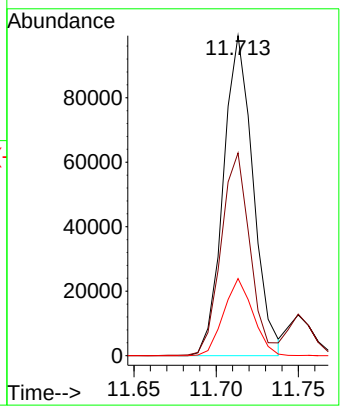


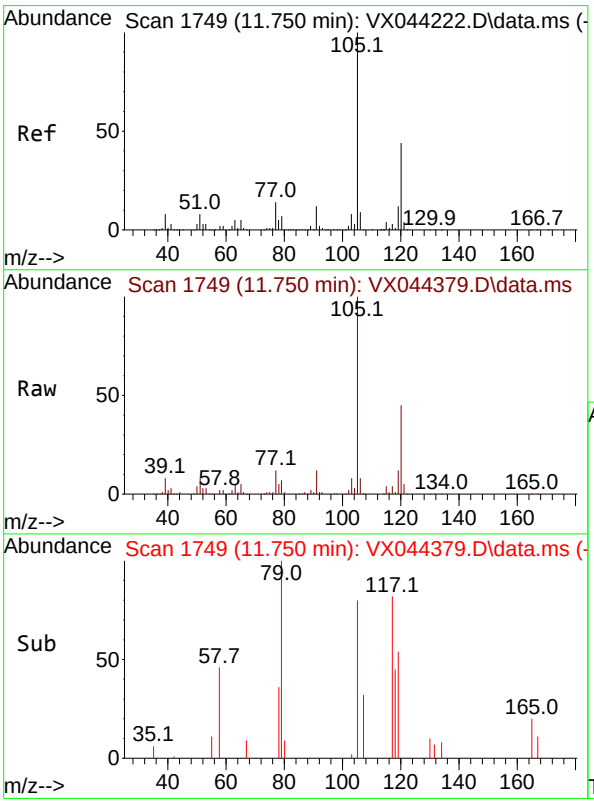
#83
tert-Butylbenzene
Concen: 19.670 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:119 Resp: 125228

Ion	Ratio	Lower	Upper
119	100		
91	62.2	30.9	92.5
134	23.8	11.5	34.4

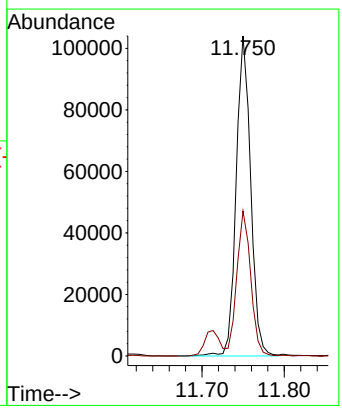


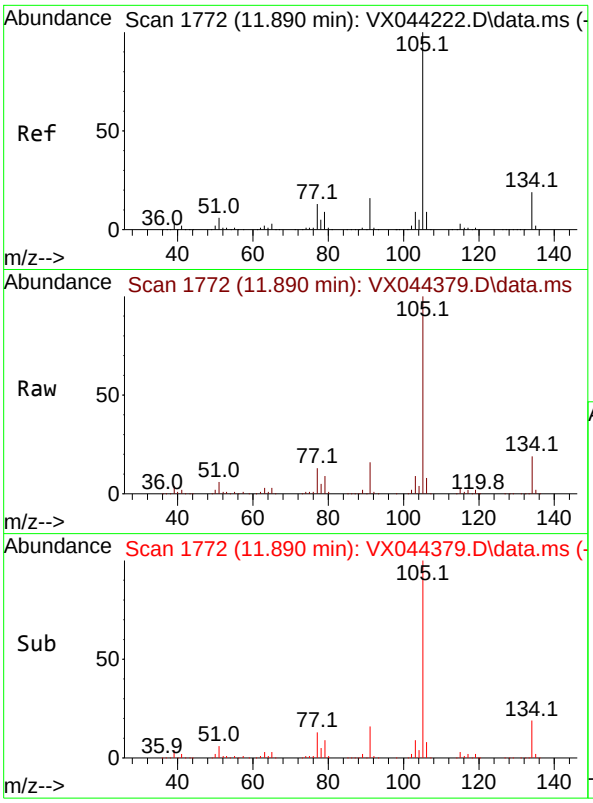


#84
1,2,4-Trimethylbenzene
Concen: 20.126 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:105 Resp: 127328

Ion	Ratio	Lower	Upper
105	100		
120	43.9	21.7	65.1



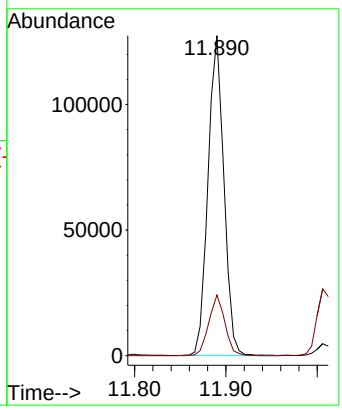


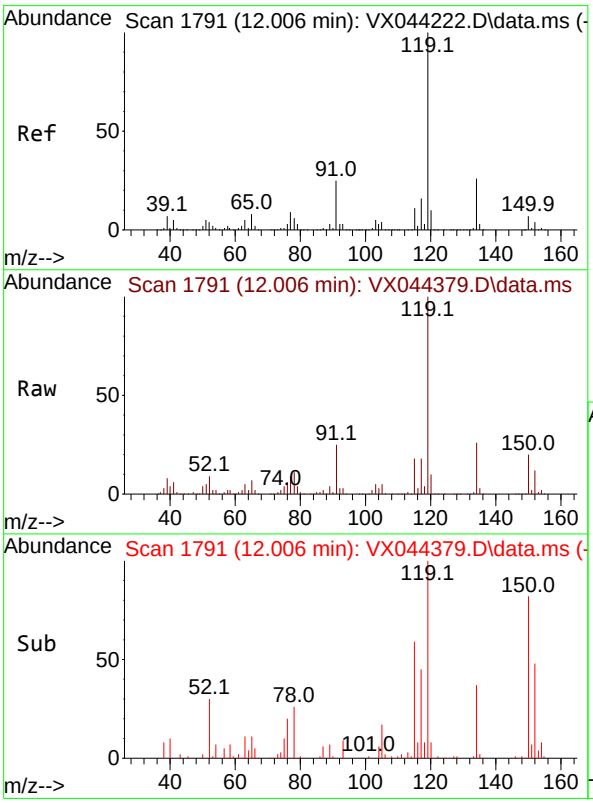
#85
sec-Butylbenzene
Concen: 19.858 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:105 Resp: 153481

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4

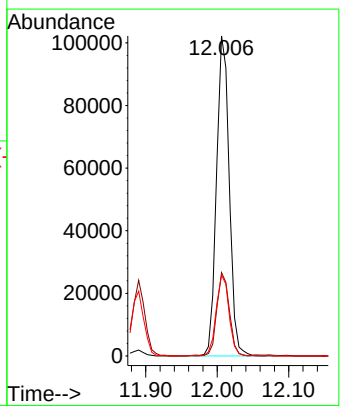


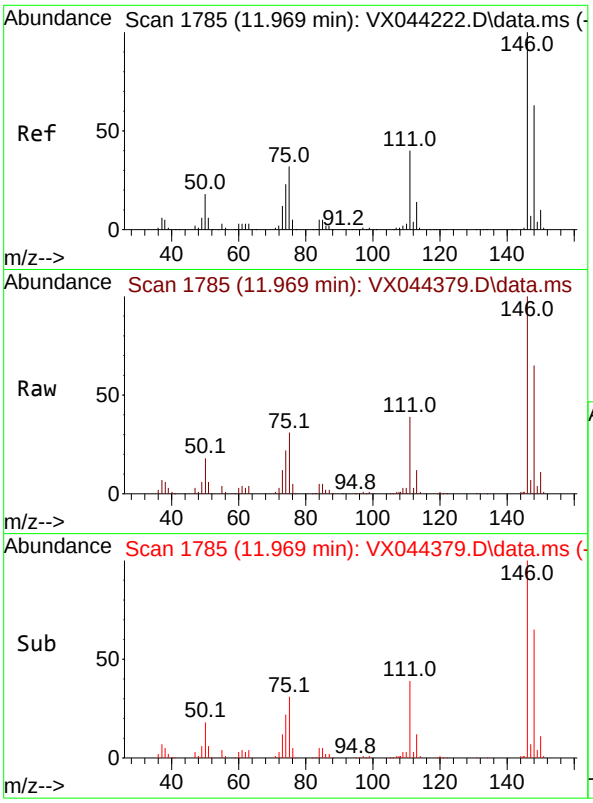


#86
p-Isopropyltoluene
Concen: 19.703 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:119 Resp: 126744

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.4
91	25.6	13.0	39.0



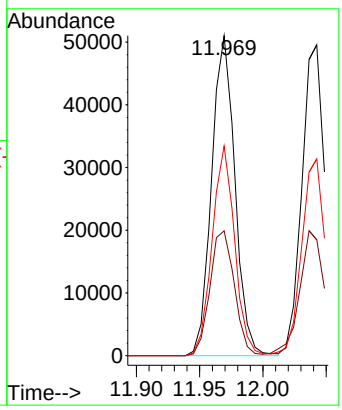


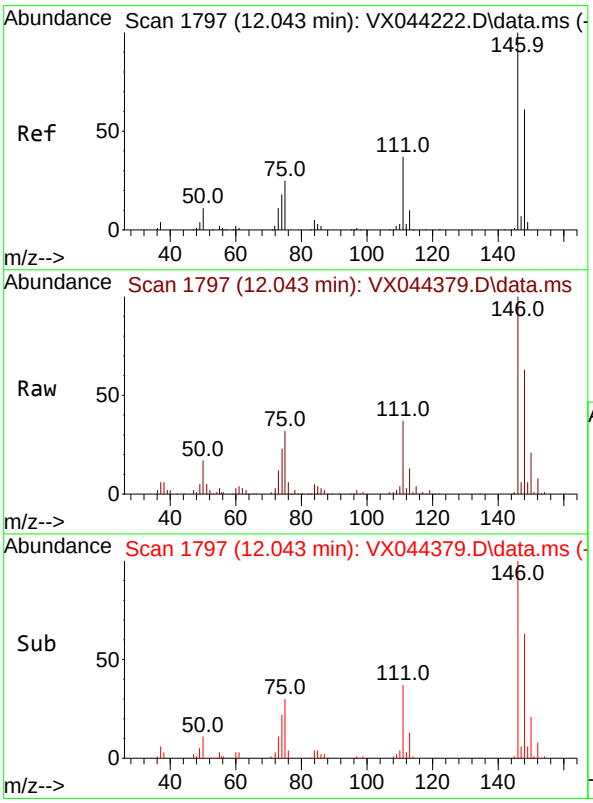
#87
1,3-Dichlorobenzene
Concen: 19.864 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:146 Resp: 65361

Ion	Ratio	Lower	Upper
146	100		
111	40.8	21.4	64.2
148	63.3	31.7	95.1

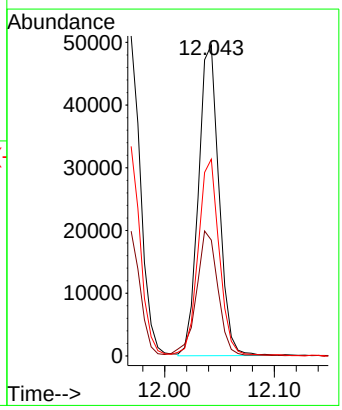


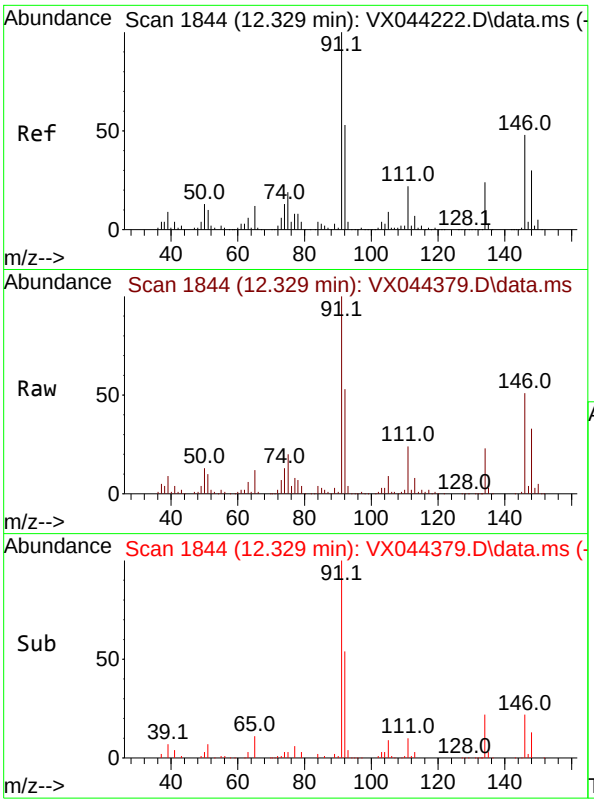


#88
1,4-Dichlorobenzene
Concen: 19.090 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:146 Resp: 64574

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.0	63.0
148	64.3	32.3	96.8



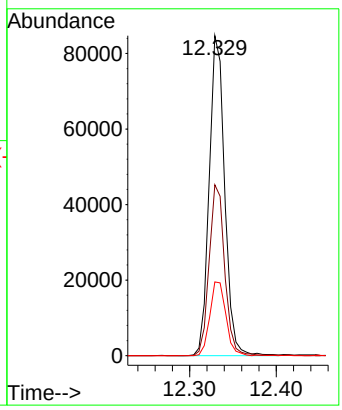


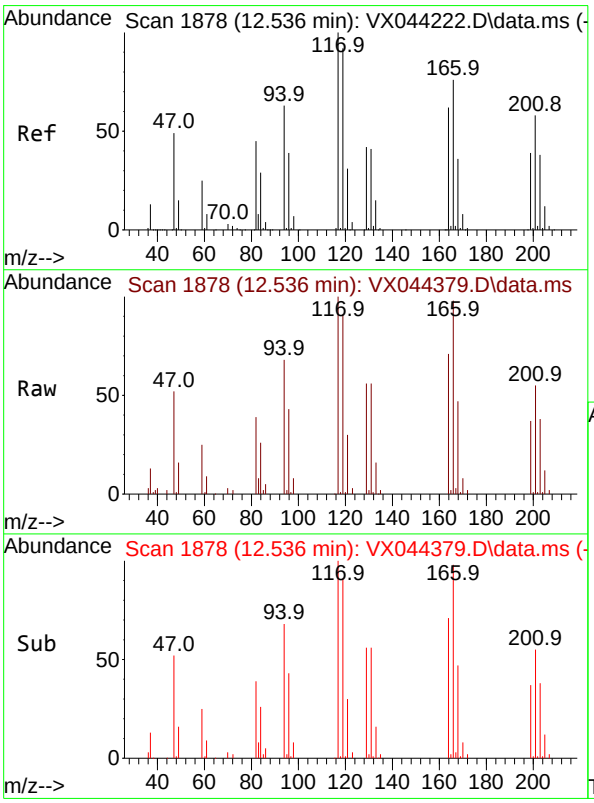
#89
n-Butylbenzene
Concen: 19.460 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion: 91 Resp: 105264

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.6	79.7
134	24.0	12.6	37.8

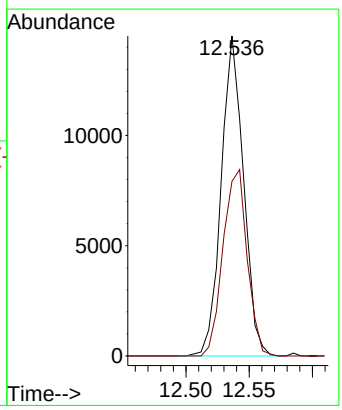


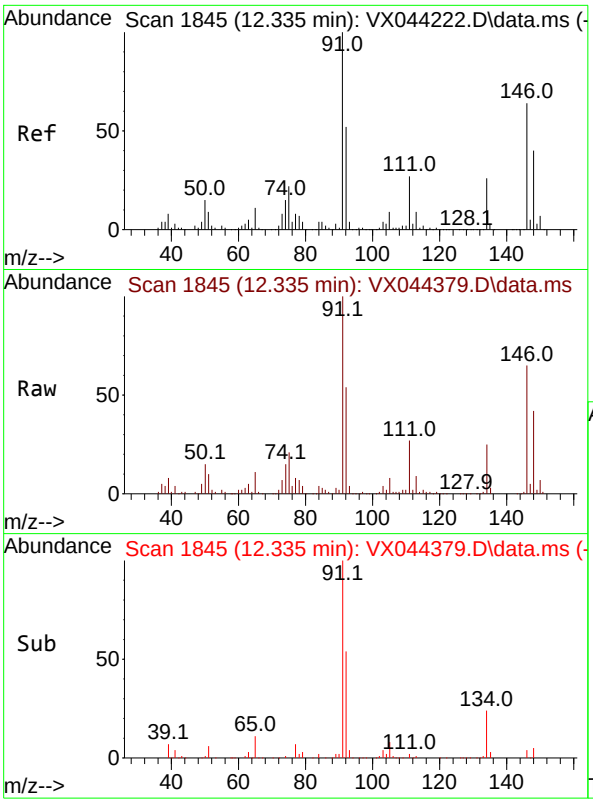


#90
Hexachloroethane
Concen: 18.915 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:117 Resp: 17762

Ion	Ratio	Lower	Upper
117	100		
201	63.1	31.4	94.2



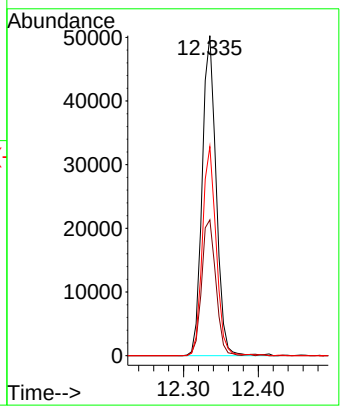


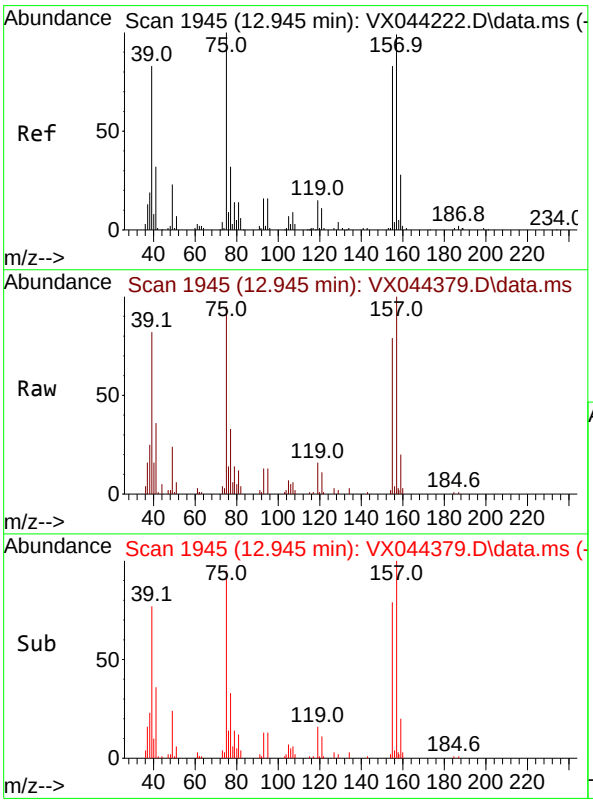
#91
1,2-Dichlorobenzene
Concen: 19.126 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:146 Resp: 65345

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.3
148	64.4	31.6	95.0

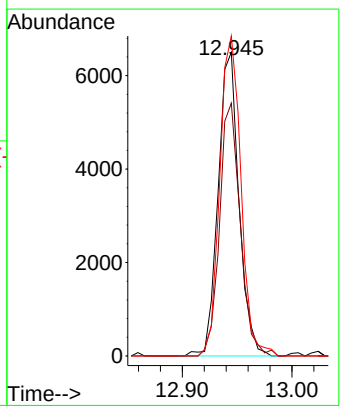


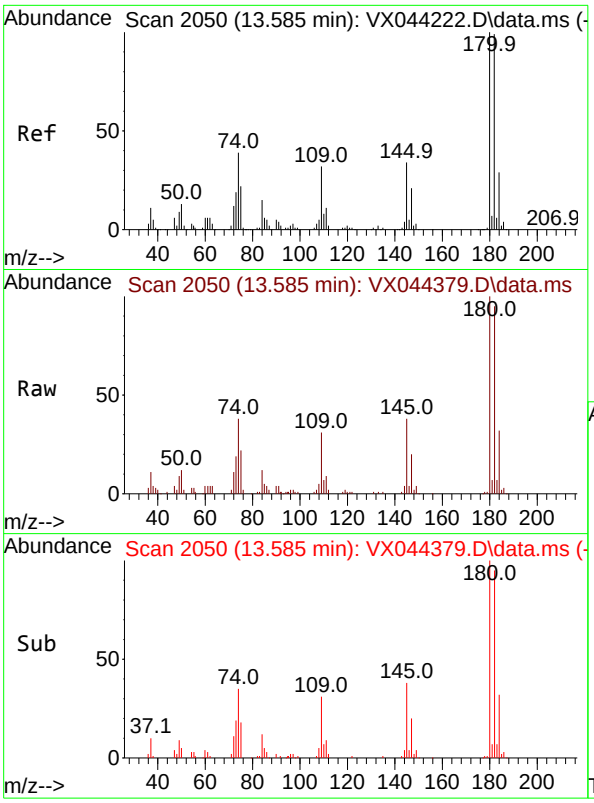


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.383 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion: 75 Resp: 8581

Ion	Ratio	Lower	Upper
75	100		
155	82.6	38.1	114.3
157	106.9	47.2	141.6



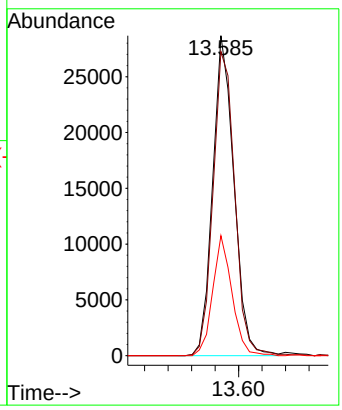


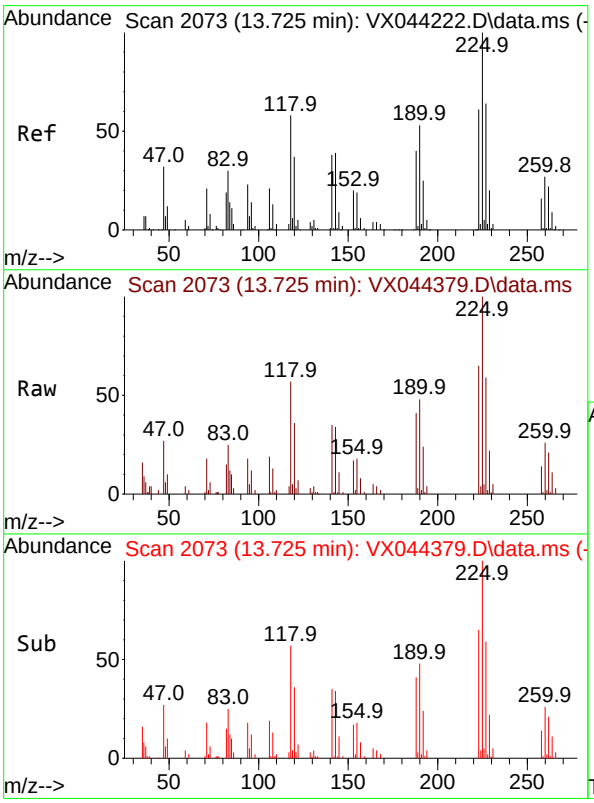
#93
1,2,4-Trichlorobenzene
Concen: 19.257 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:180 Resp: 36071

Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.0	144.2
145	34.2	16.6	49.7

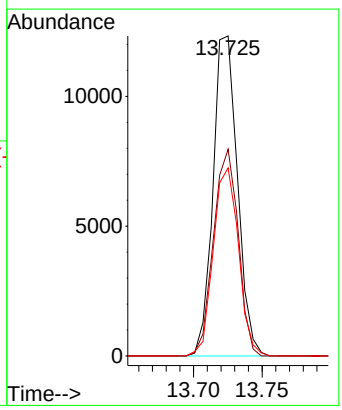


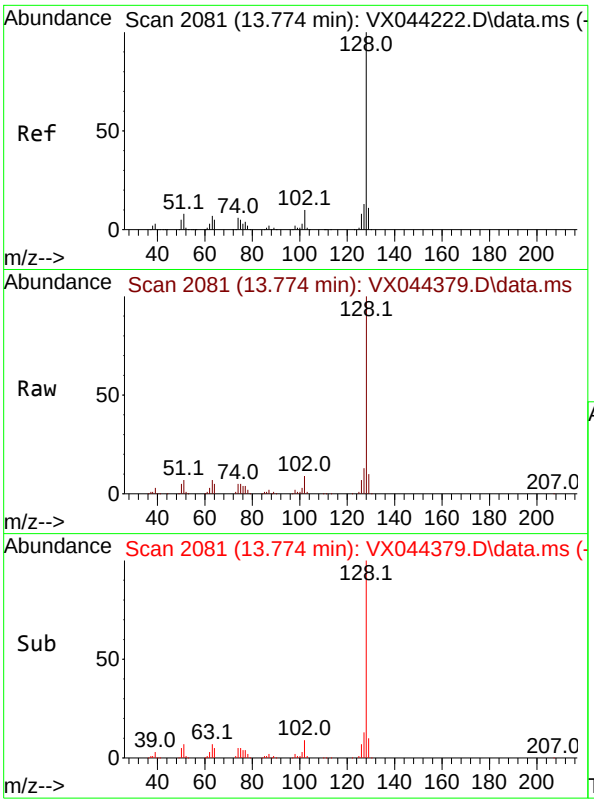


#94
Hexachlorobutadiene
Concen: 20.290 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:225 Resp: 15287

Ion	Ratio	Lower	Upper
225	100		
223	65.2	30.8	92.4
227	60.5	32.1	96.3



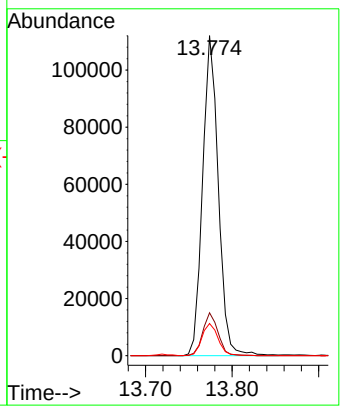


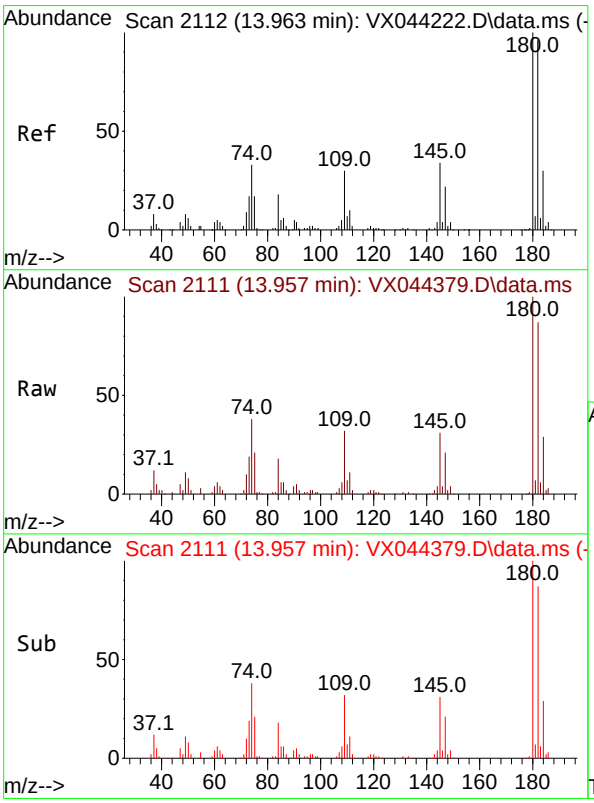
#95
Naphthalene
Concen: 19.320 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBSD01

Tgt Ion:128 Resp: 141260

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.4	9.0	13.4

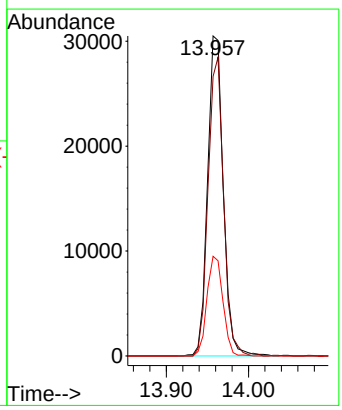




#96
1,2,3-Trichlorobenzene
Concen: 20.374 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044379.D
Acq: 18 Dec 2024 13:38

Tgt Ion:180 Resp: 40477

Ion	Ratio	Lower	Upper
180	100		
182	92.0	48.0	144.0
145	31.6	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044382.D
Acq On : 18 Dec 2024 14:48
Operator : JC/MD
Sample : P5281-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Quant Time: Dec 19 00:46:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	120337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	217882	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	185612	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	75075	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	94483	44.781	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.560%			
35) Dibromofluoromethane	5.379	113	71615	47.458	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.920%			
50) Toluene-d8	8.647	98	259965	51.063	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.120%			
62) 4-Bromofluorobenzene	11.079	95	82244	46.232	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.460%			
Target Compounds						Qvalue
3) Chloromethane	1.294	50	435	0.244	ug/l #	42
5) Bromomethane	1.593	94	332	0.252	ug/l #	68
6) Chloroethane	1.642	64	442	0.383	ug/l #	41
11) Tert butyl alcohol	2.940	59	1568	5.273	ug/l #	71
16) Acetone	2.380	43	2274	2.644	ug/l #	89
17) Carbon Disulfide	2.495	76	518	0.202	ug/l #	75
20) Methylene Chloride	2.788	84	534	0.331	ug/l #	82
25) 2-Butanone	4.599	43	1116	0.913	ug/l	94
31) Cyclohexane	5.544	56	3082	1.353	ug/l #	28
36) 1,1-Dichloropropene	5.544	75	10320	5.291	ug/l #	50
38) Carbon Tetrachloride	5.544	117	13531	6.443	ug/l #	16
44) Trichloroethene	7.129	130	584	0.395	ug/l	88
60) Dibromochloromethane	9.269	129	29	1.250	ug/l #	11
76) 1,2,3-Trichloropropane	11.079	75	46120	27.514	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	46120	75.623	ug/l #	4

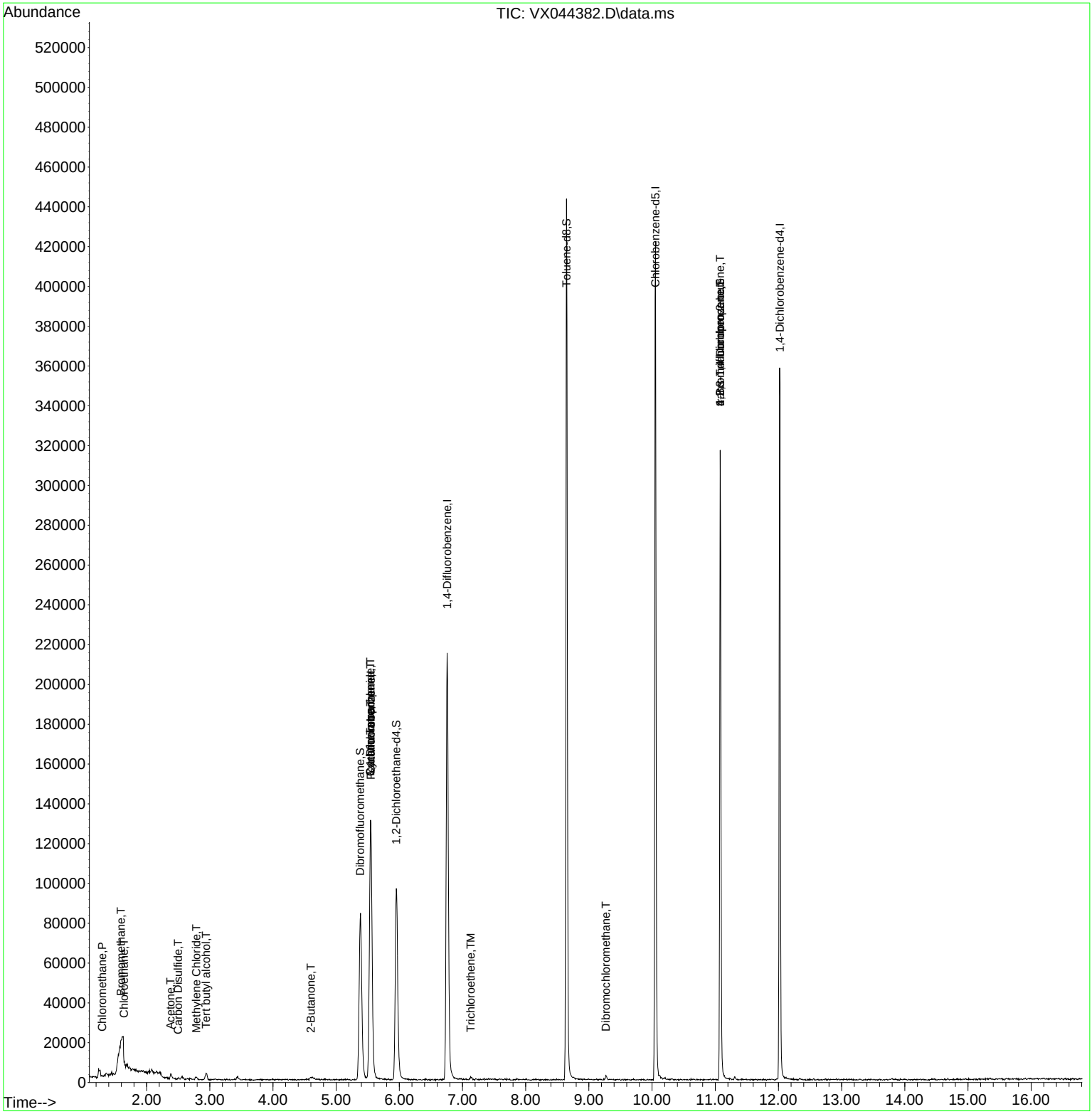
(#) = qualifier out of range (m) = manual integration (+) = signals summed

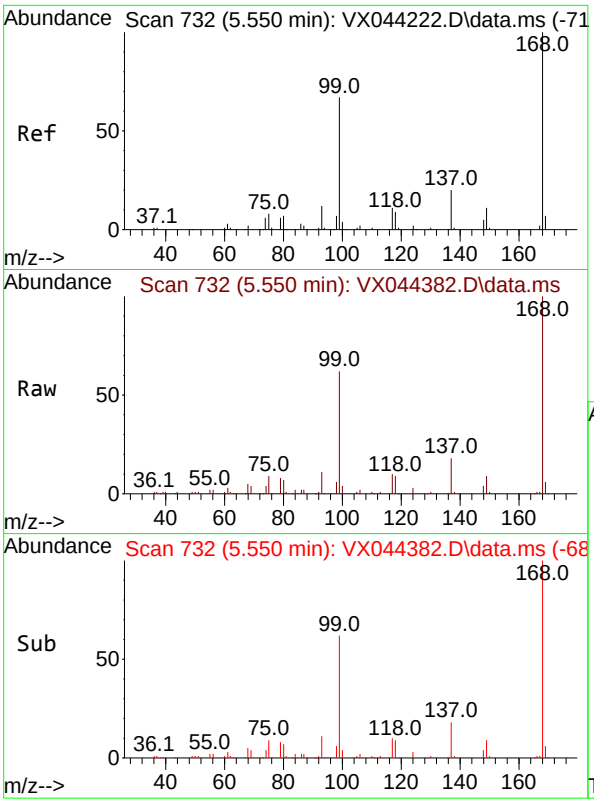
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044382.D
Acq On : 18 Dec 2024 14:48
Operator : JC/MD
Sample : P5281-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Quant Time: Dec 19 00:46:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



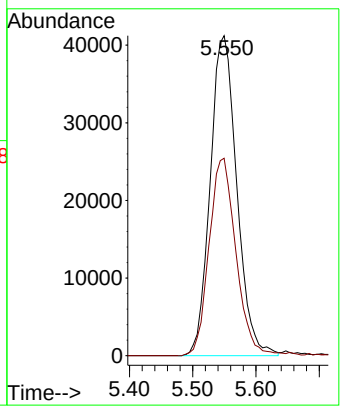


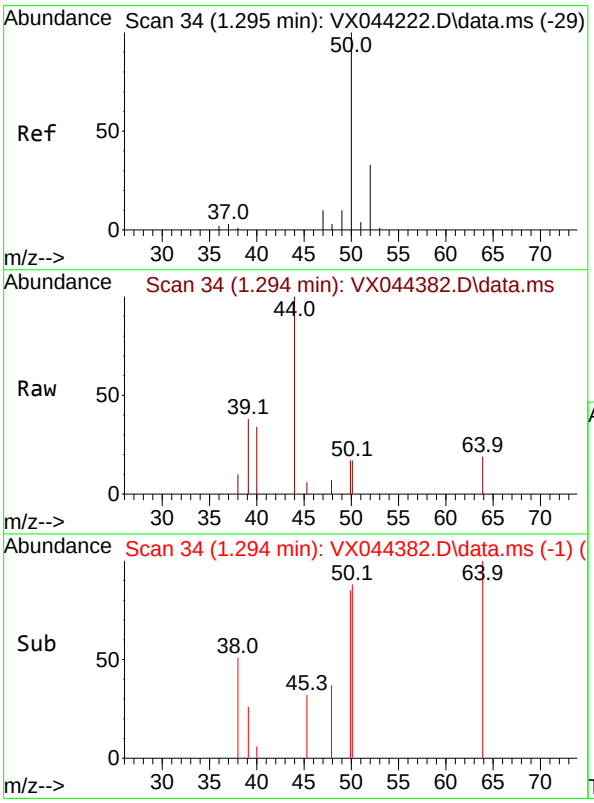
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion:168 Resp: 120337

Ion	Ratio	Lower	Upper
168	100		
99	61.7	53.4	80.0

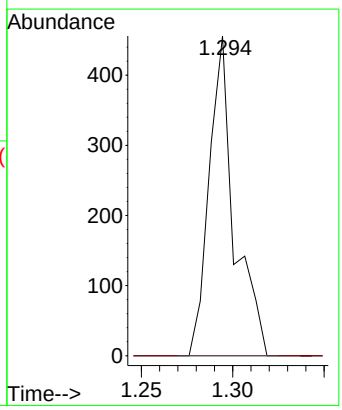


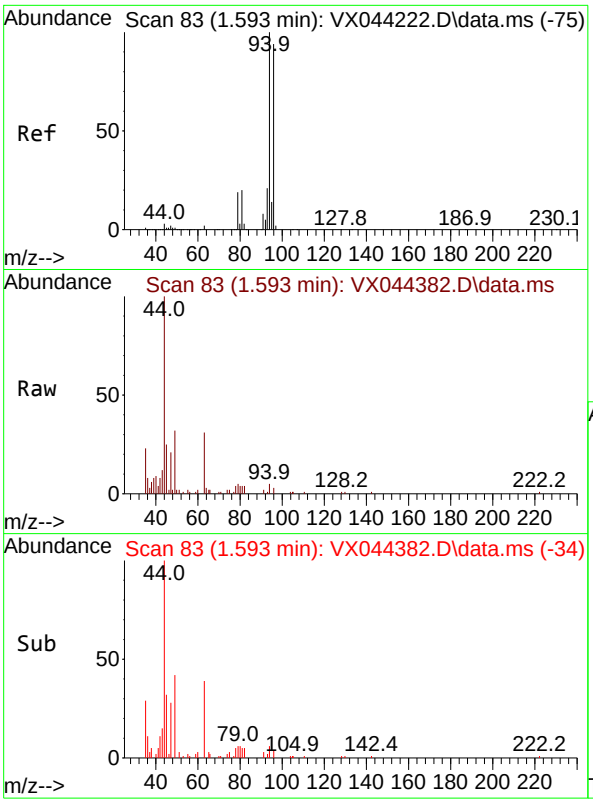


#3
Chloromethane
Concen: 0.244 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 50 Resp: 435

Ion	Ratio	Lower	Upper
50	100		
52	0.0	26.5	39.7#



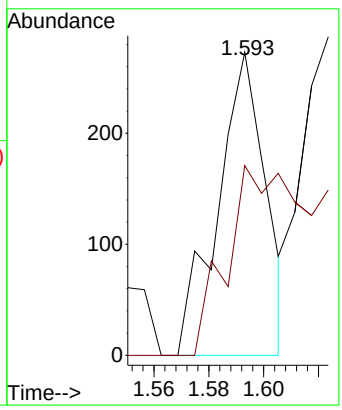


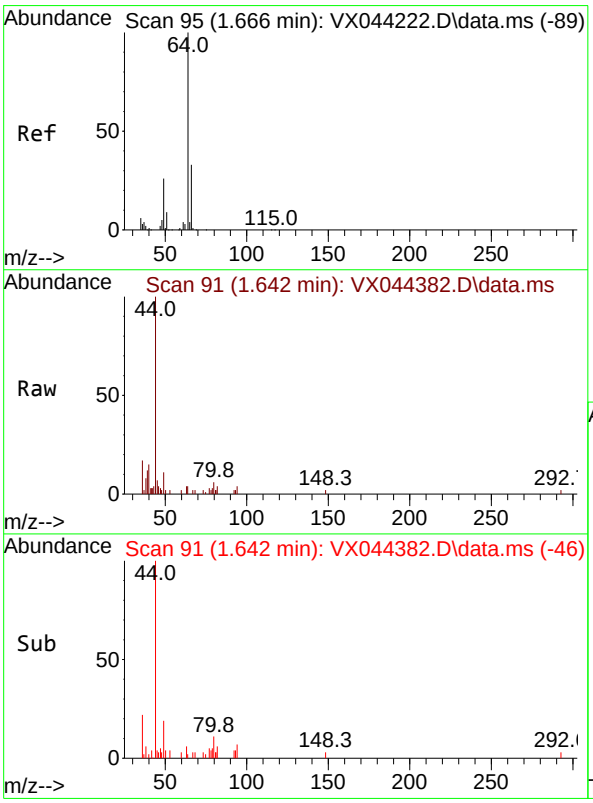
#5
Bromomethane
Concen: 0.252 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion: 94 Resp: 332

Ion	Ratio	Lower	Upper
94	100		
96	62.6	74.9	112.3#

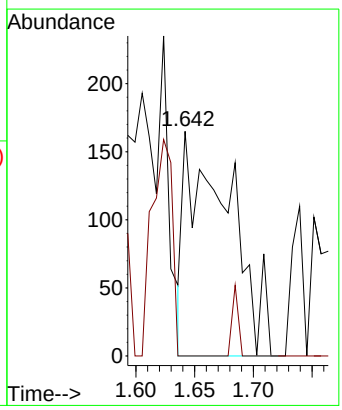


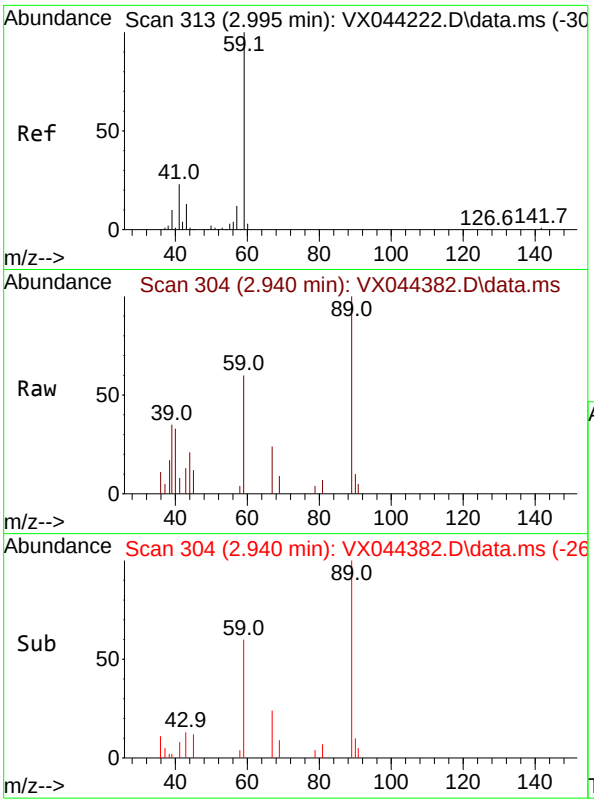


#6
Chloroethane
Concen: 0.383 ug/l
RT: 1.642 min Scan# 91
Delta R.T. -0.025 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 64 Resp: 442

Ion	Ratio	Lower	Upper
64	100		
66	0.0	26.6	39.8#



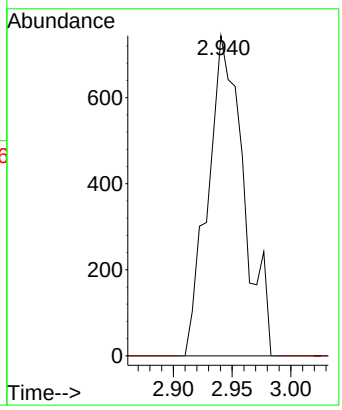


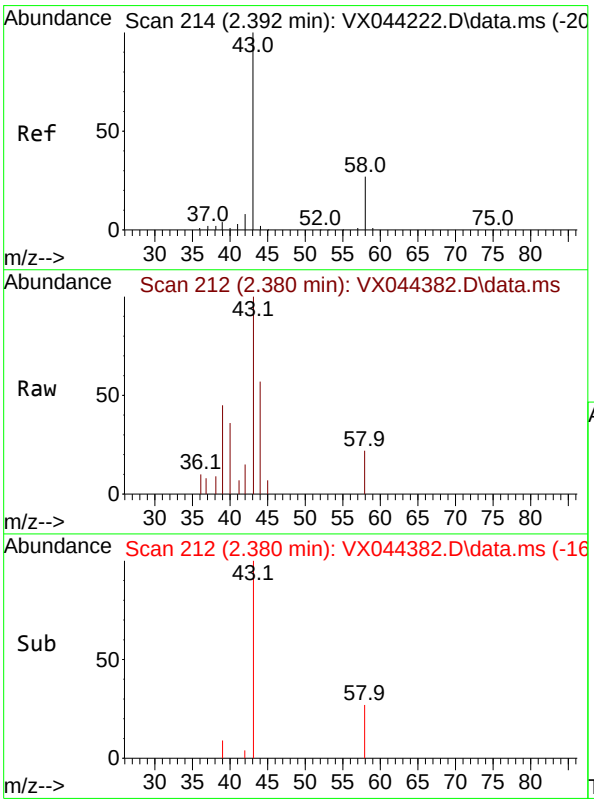
#11
Tert butyl alcohol
Concen: 5.273 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.055 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion: 59 Resp: 1568

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

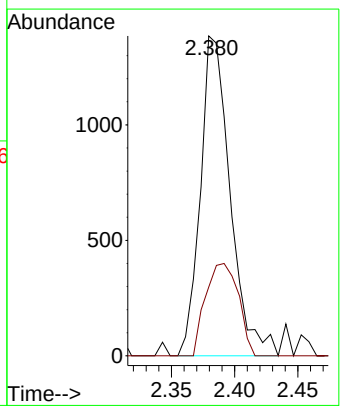


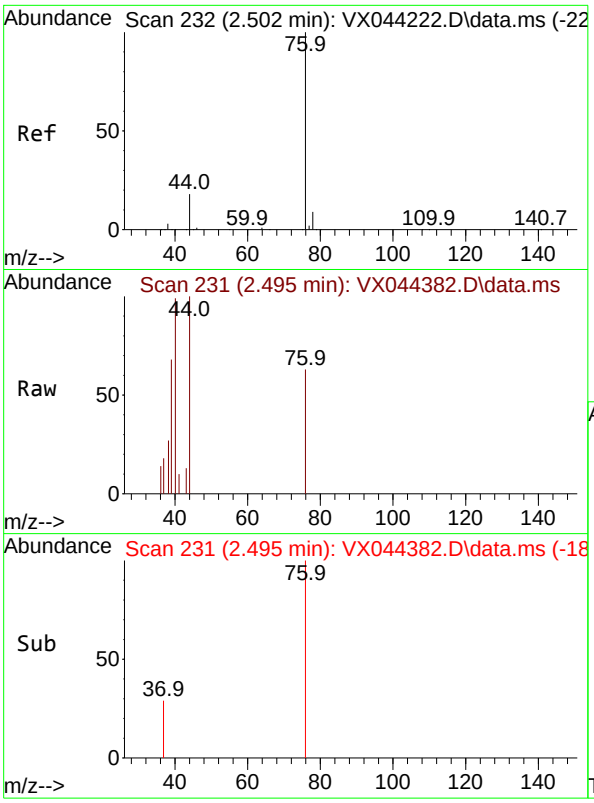


#16
Acetone
Concen: 2.644 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.012 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 43 Resp: 2274

Ion	Ratio	Lower	Upper
43	100		
58	21.5	21.6	32.4#



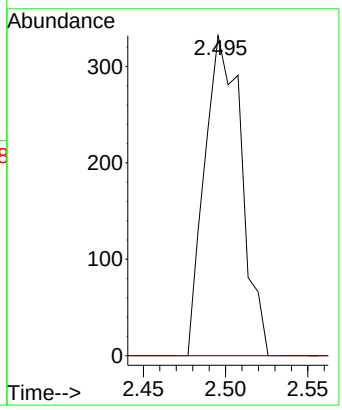


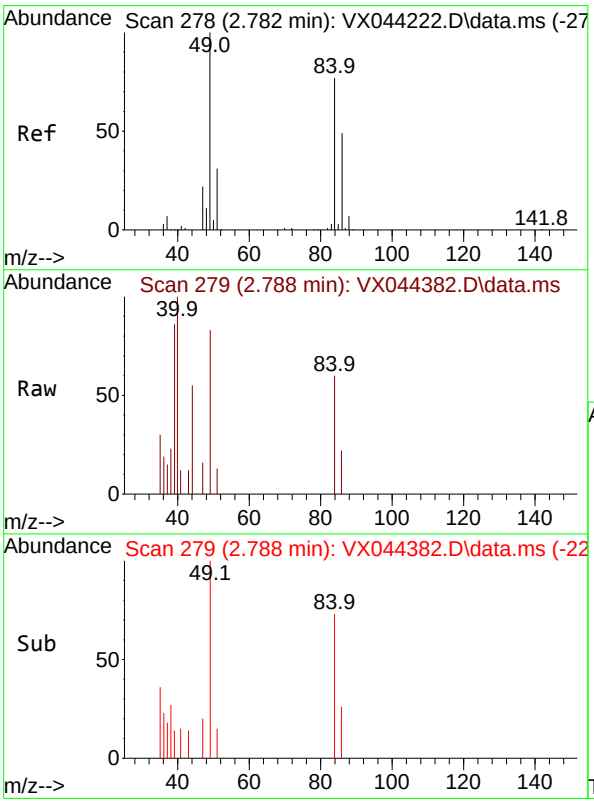
#17
Carbon Disulfide
Concen: 0.202 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion: 76 Resp: 518

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.4	11.0#

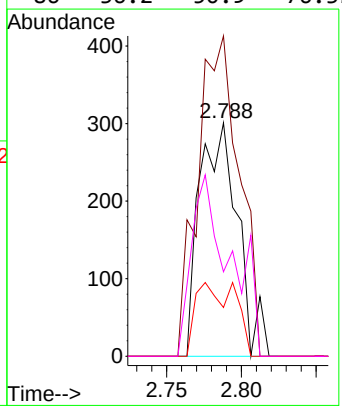


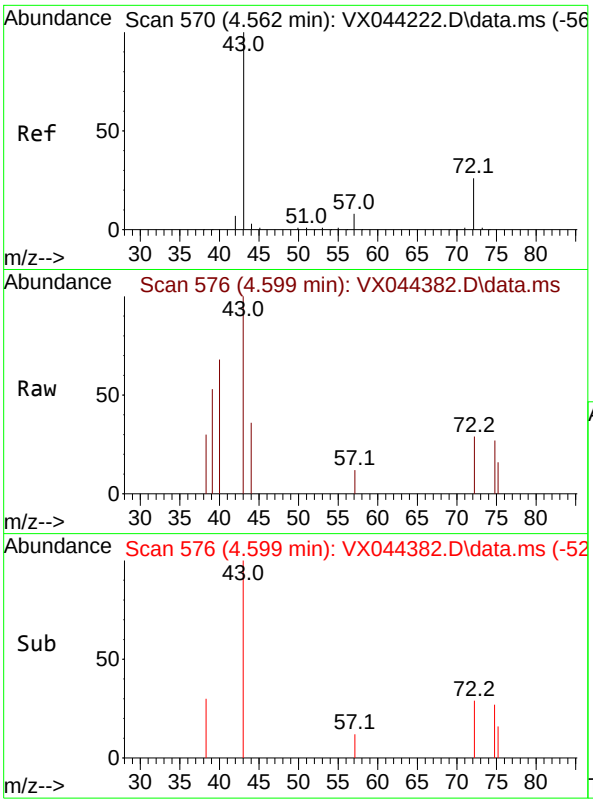


#20
Methylene Chloride
Concen: 0.331 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 84 Resp: 534

Ion	Ratio	Lower	Upper
84	100		
49	137.2	104.2	156.4
51	20.9	32.2	48.4#
86	36.2	50.9	76.3#



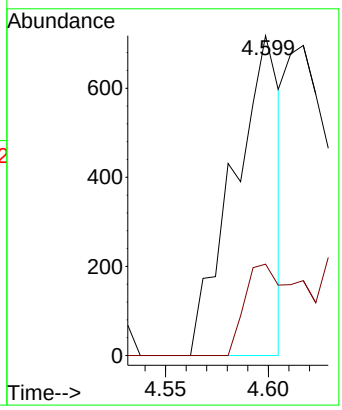


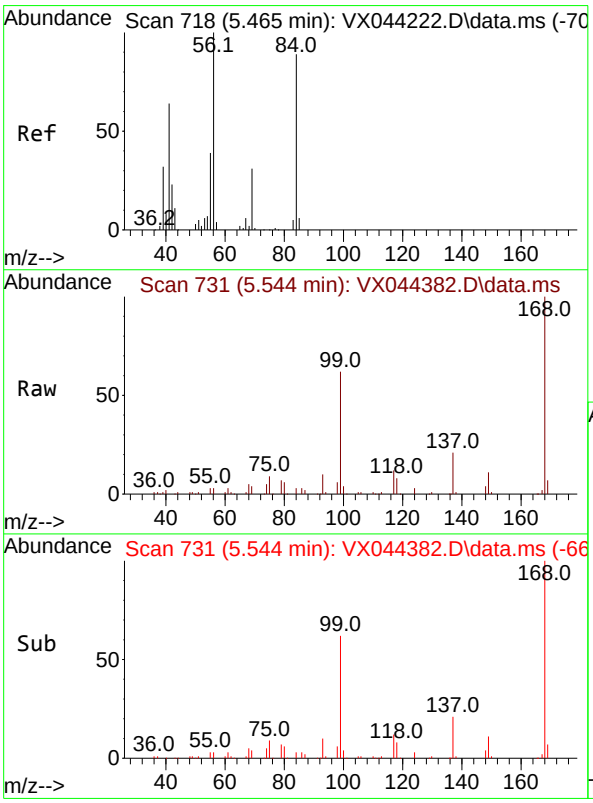
#25
2-Butanone
Concen: 0.913 ug/l
RT: 4.599 min Scan# 5
Delta R.T. 0.036 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion: 43 Resp: 1116

Ion	Ratio	Lower	Upper
43	100		
72	28.6	20.2	30.4

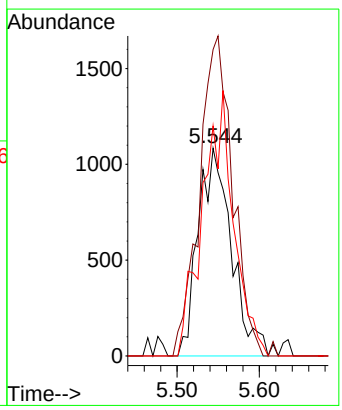


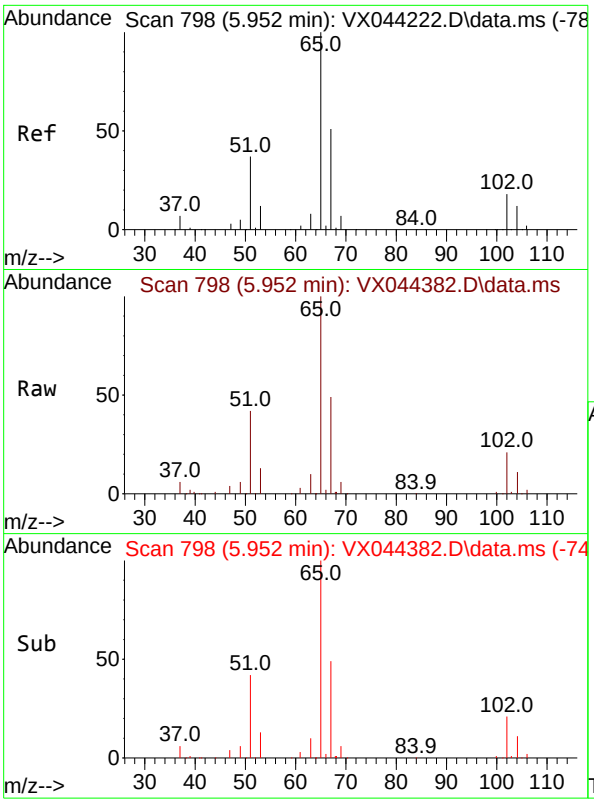


#31
Cyclohexane
Concen: 1.353 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.079 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 56 Resp: 3082

Ion	Ratio	Lower	Upper
56	100		
69	147.5	24.7	37.1#
84	110.8	71.0	106.6#



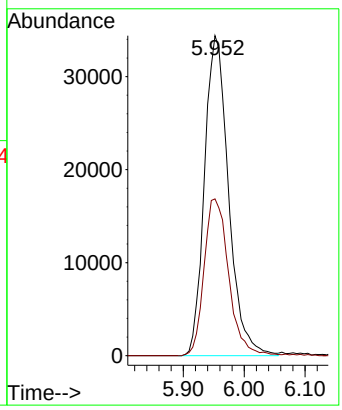


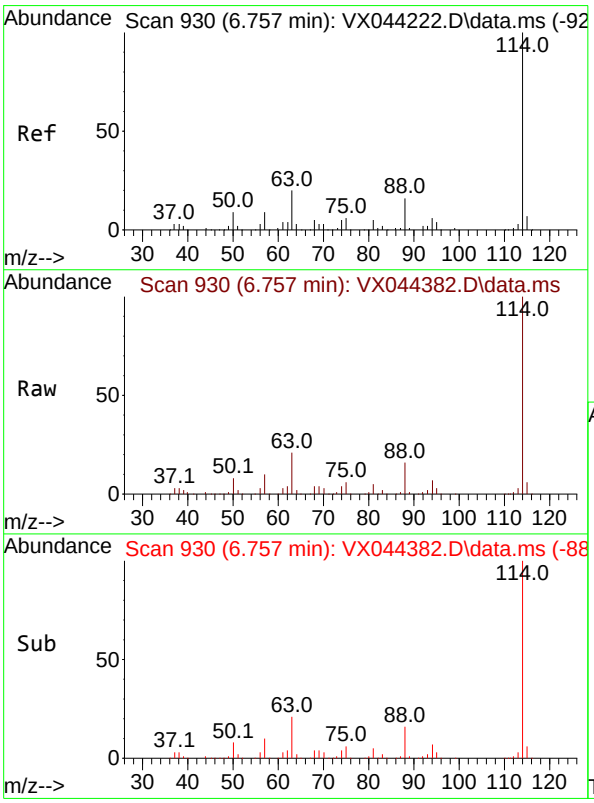
#33
1,2-Dichloroethane-d4
Concen: 44.781 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion: 65 Resp: 94483

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	101.6

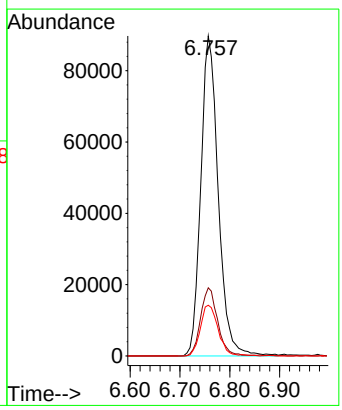


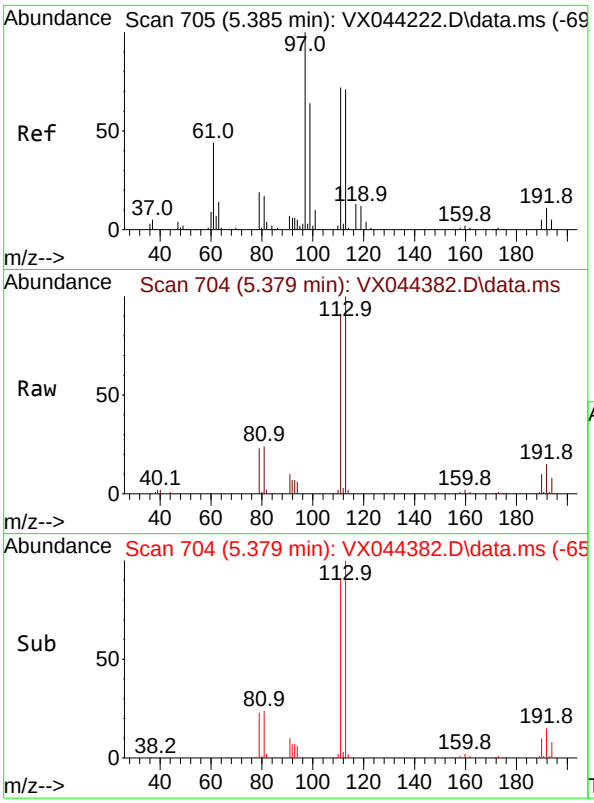


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:114 Resp: 217882

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	40.6
88	15.9	0.0	31.8



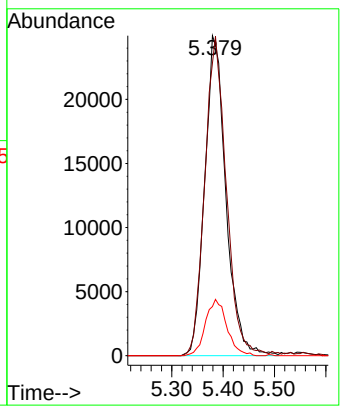


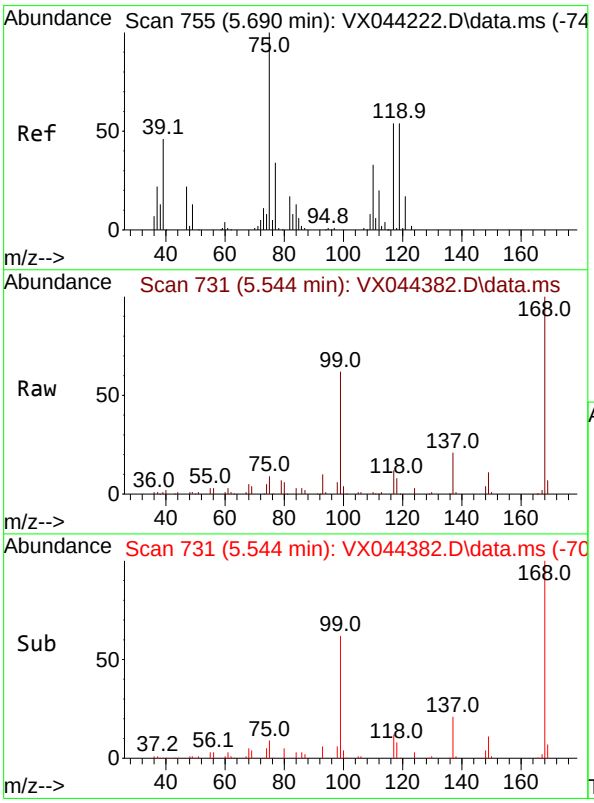
#35
Dibromofluoromethane
Concen: 47.458 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion:113 Resp: 71615

Ion	Ratio	Lower	Upper
113	100		
111	101.2	80.4	120.6
192	17.7	13.3	19.9

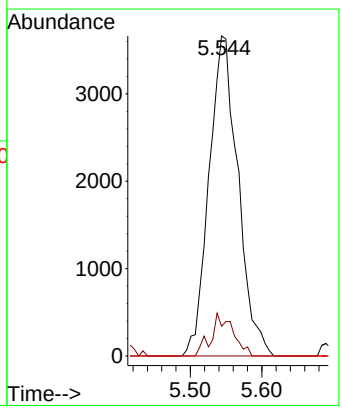


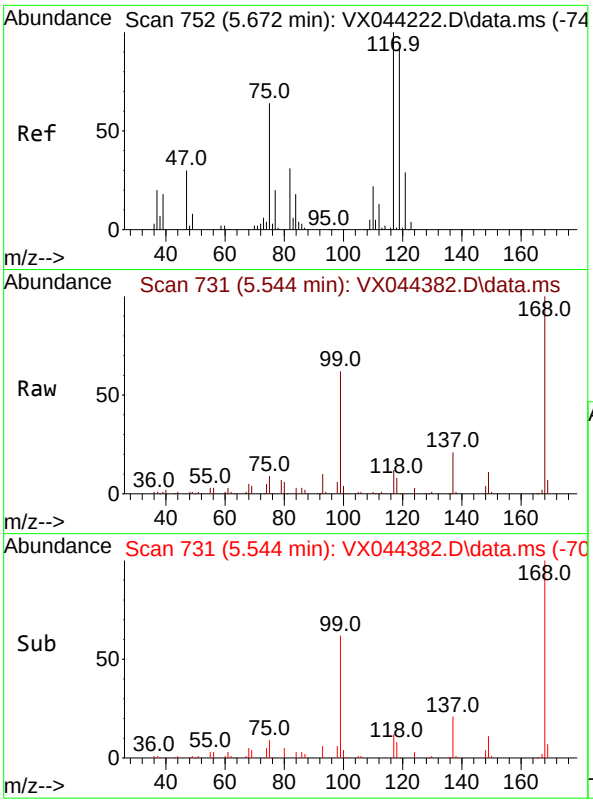


#36
1,1-Dichloropropene
Concen: 5.291 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.146 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 75 Resp: 10320

Ion	Ratio	Lower	Upper
75	100		
110	9.9	17.3	51.7#
77	0.0	25.4	38.0#



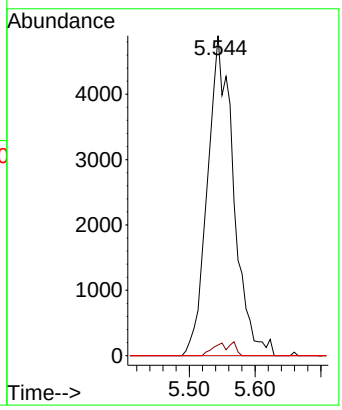


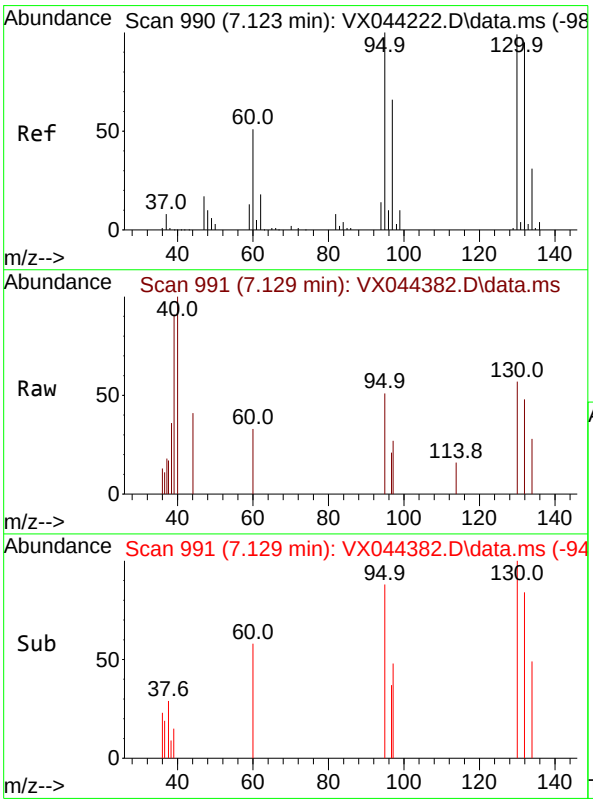
#38
Carbon Tetrachloride
Concen: 6.443 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.128 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion:117 Resp: 13531

Ion	Ratio	Lower	Upper
117	100		
119	3.4	74.2	111.4#
121	0.0	23.0	34.6#

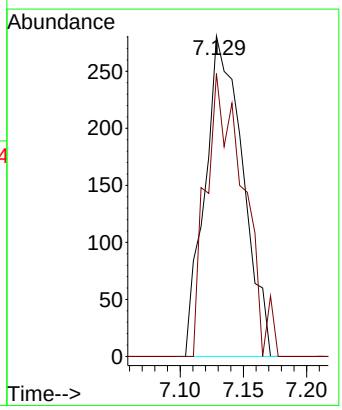


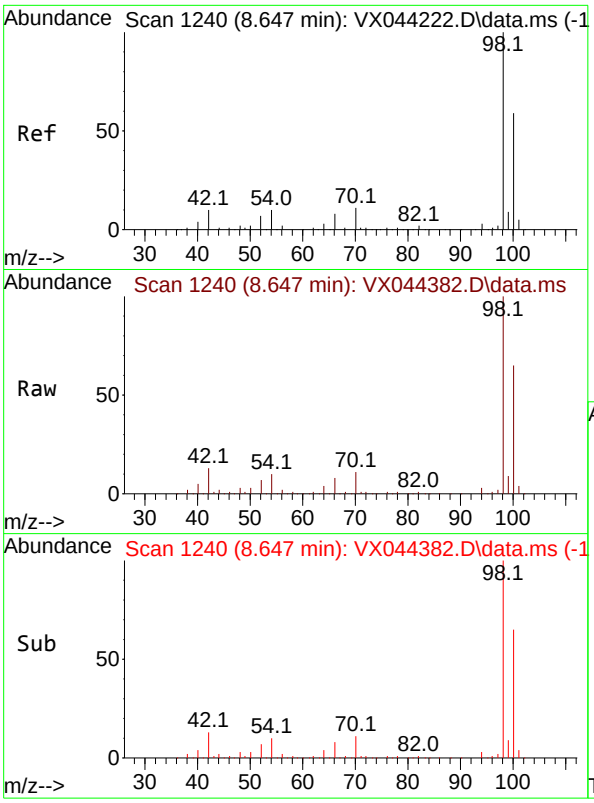


#44
Trichloroethene
Concen: 0.395 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:130 Resp: 584

Ion	Ratio	Lower	Upper
130	100		
95	88.3	0.0	201.4



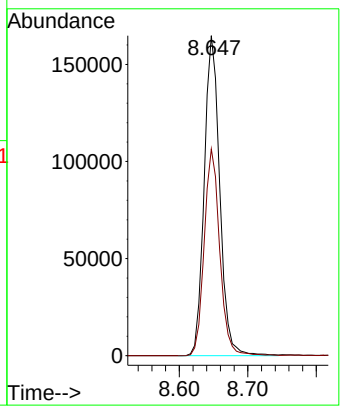


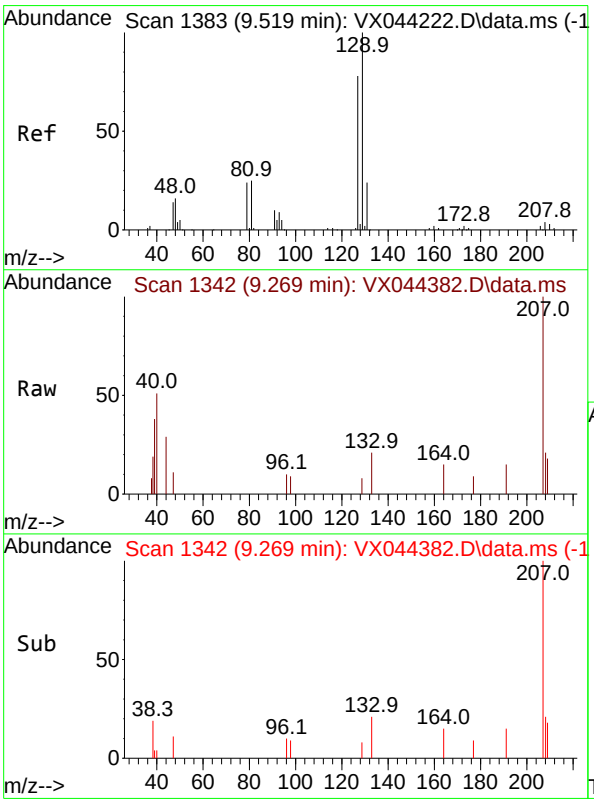
#50
Toluene-d8
Concen: 51.063 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion: 98 Resp: 259965

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.5	77.3

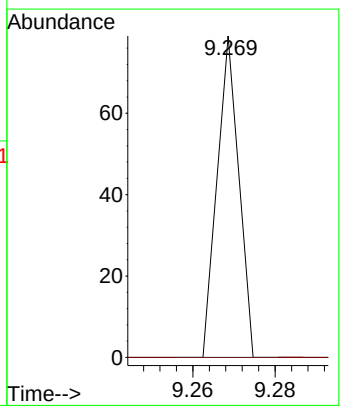


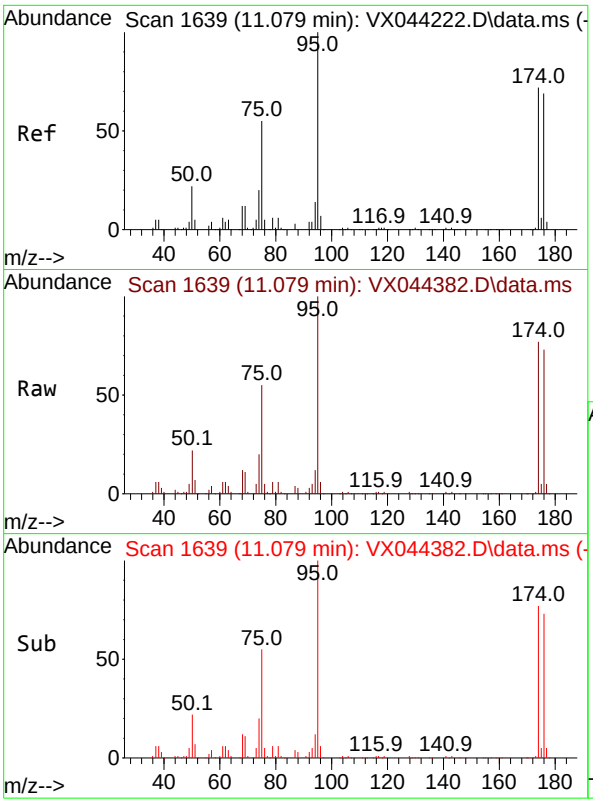


#60
Dibromochloromethane
Concen: 1.250 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.250 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:129 Resp: 29

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.5	115.3#



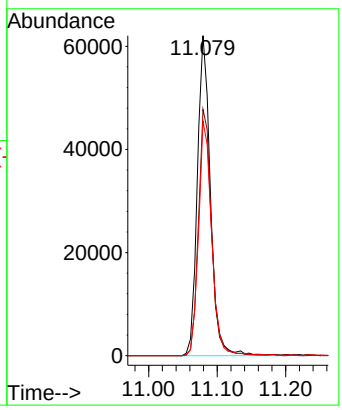


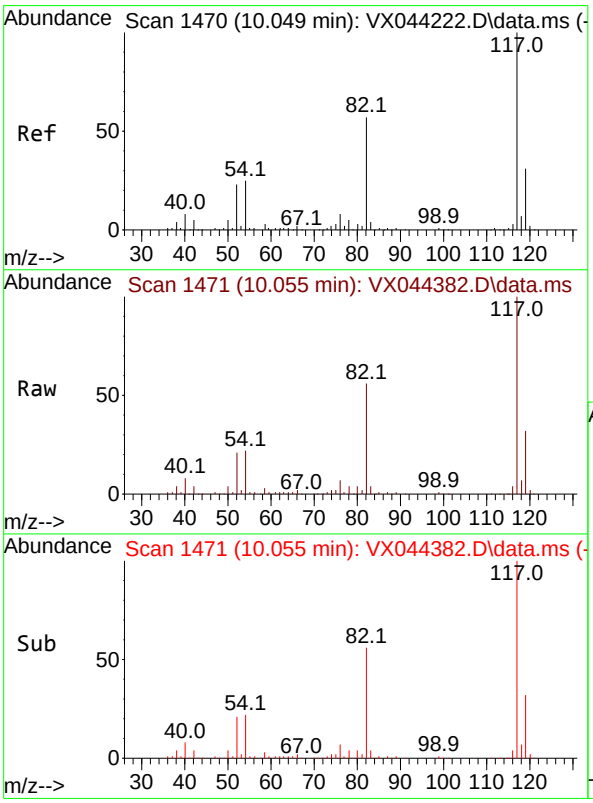
#62
4-Bromofluorobenzene
Concen: 46.232 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion: 95 Resp: 82244

Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	145.8
176	74.0	0.0	137.8

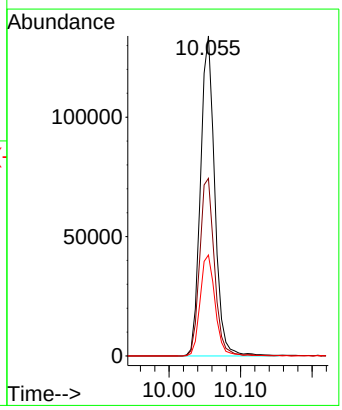


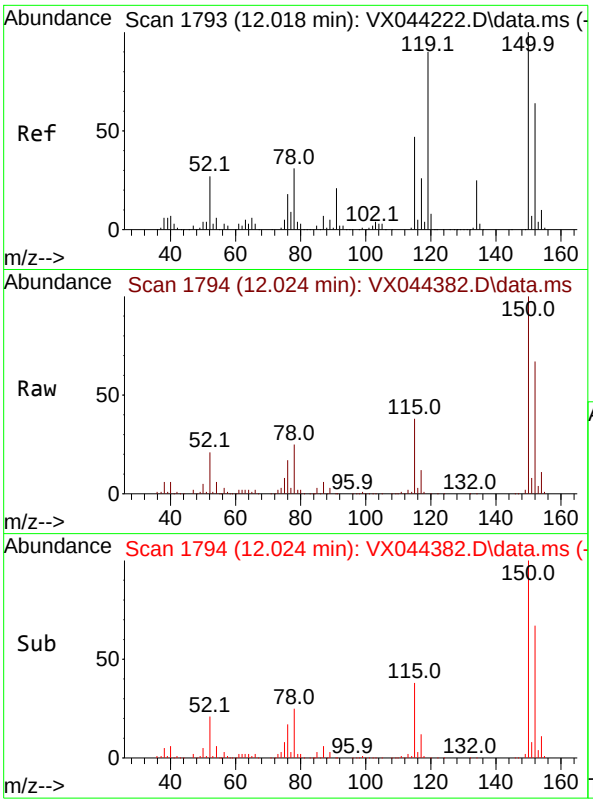


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion:117 Resp: 185612

Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.8	68.8
119	31.6	25.0	37.4



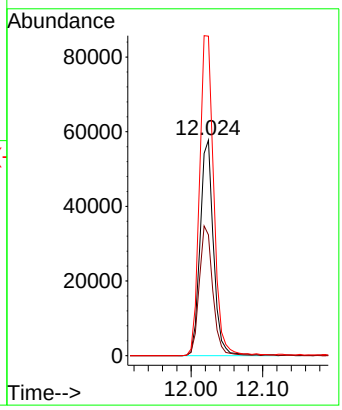


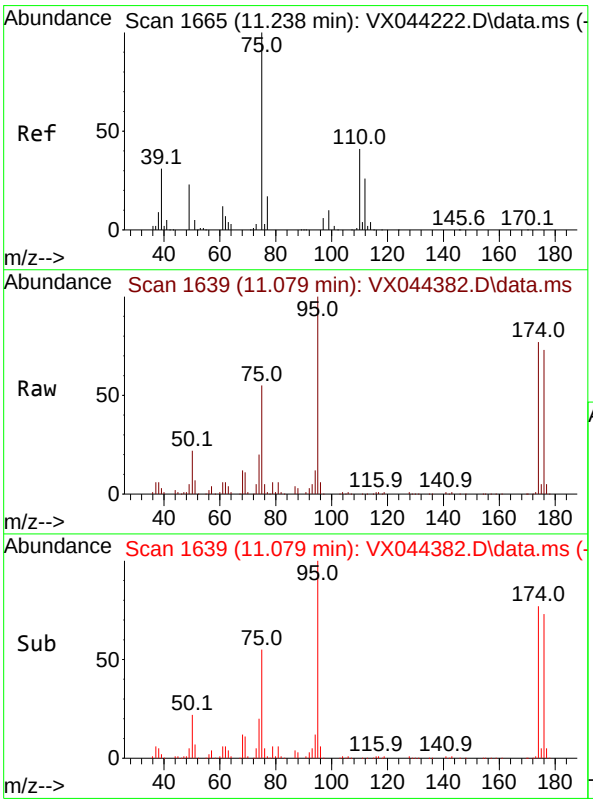
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion:152 Resp: 75075

Ion	Ratio	Lower	Upper
152	100		
115	60.8	44.5	133.3
150	157.4	0.0	353.8

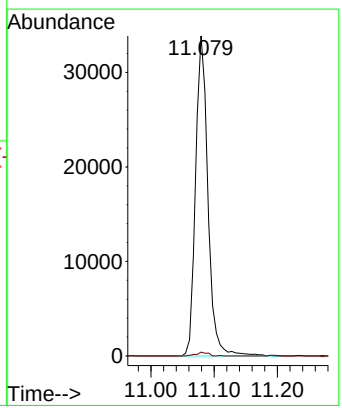


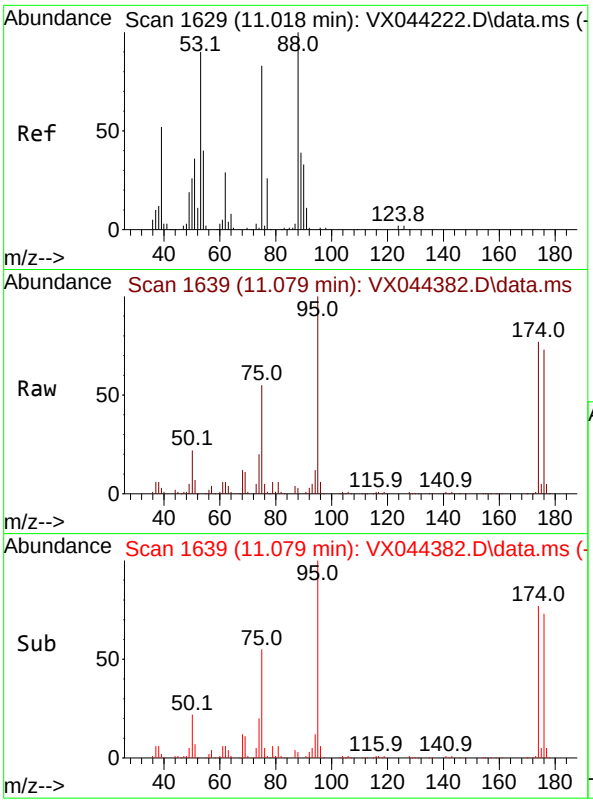


#76
1,2,3-Trichloropropane
Concen: 27.514 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Tgt Ion: 75 Resp: 46120

Ion	Ratio	Lower	Upper
75	100		
77	1.1	20.9	62.7#



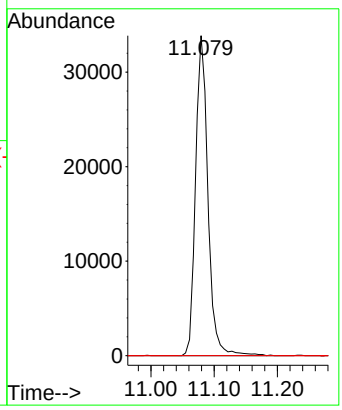


#81
trans-1,4-Dichloro-2-butene
Concen: 75.623 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX044382.D
Acq: 18 Dec 2024 14:48

Instrument :
MSVOA_X
ClientSampleId :
FB02-20241213

Tgt Ion: 75 Resp: 46120

Ion	Ratio	Lower	Upper
75	100		
53	0.0	93.6	140.4#
89	0.0	37.3	55.9#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044391.D
Acq On : 18 Dec 2024 18:18
Operator : JC/MD
Sample : P5281-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Quant Time: Dec 19 00:51:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

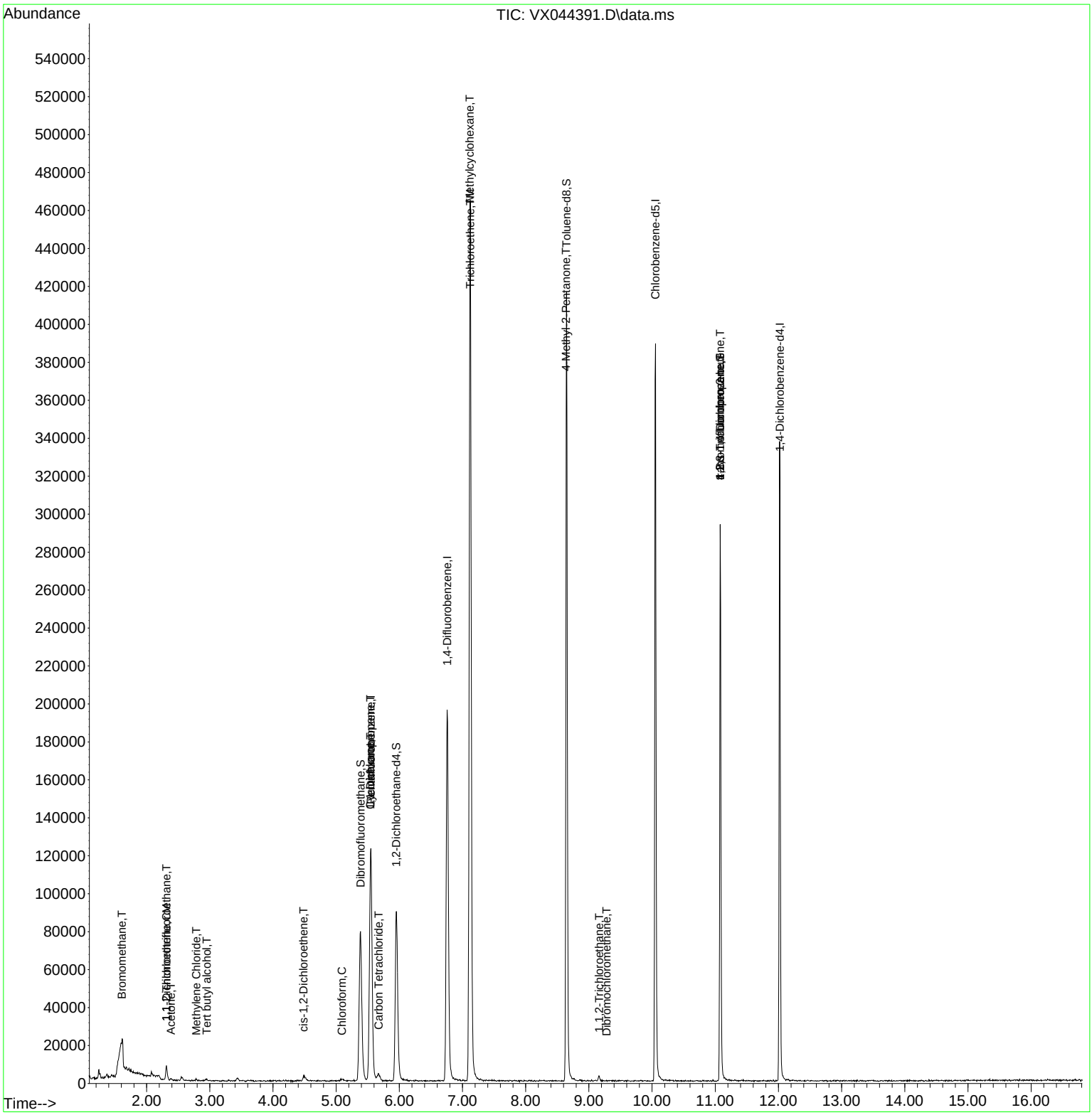
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	111808	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	202274	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	172810	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67944	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88101	44.941	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.880%			
35) Dibromofluoromethane	5.385	113	65859	47.011	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.020%			
50) Toluene-d8	8.647	98	241495	51.096	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.200%			
62) 4-Bromofluorobenzene	11.079	95	75633	45.797	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.600%			
Target Compounds						Qvalue
5) Bromomethane	1.605	94	587	0.480	ug/l #	53
9) 1,1,2-Trichlorotrifluo...	2.313	101	1218	0.893	ug/l #	85
11) Tert butyl alcohol	2.953	59	375	1.357	ug/l #	71
12) 1,1-Dichloroethene	2.313	96	1589	1.268	ug/l #	57
16) Acetone	2.386	43	918	1.149	ug/l #	50
20) Methylene Chloride	2.788	84	459	0.306	ug/l #	61
27) cis-1,2-Dichloroethene	4.483	96	1951	1.153	ug/l	50
30) Chloroform	5.093	83	861	0.292	ug/l #	82
31) Cyclohexane	5.544	56	2929	1.384	ug/l #	9
36) 1,1-Dichloropropene	5.544	75	9655	5.332	ug/l #	49
38) Carbon Tetrachloride	5.672	117	3157	1.619	ug/l	93
39) Methylcyclohexane	7.117	83	2309	1.067	ug/l #	1
44) Trichloroethene	7.123	130	175185	127.770	ug/l	98
51) 4-Methyl-2-Pentanone	8.641	43	1281	0.569	ug/l #	1
55) 1,1,2-Trichloroethane	9.165	97	834	0.608	ug/l #	75
60) Dibromochloromethane	9.281	129	26	1.249	ug/l #	11
76) 1,2,3-Trichloropropane	11.079	75	42463	27.991	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	42463	76.838	ug/l #	4

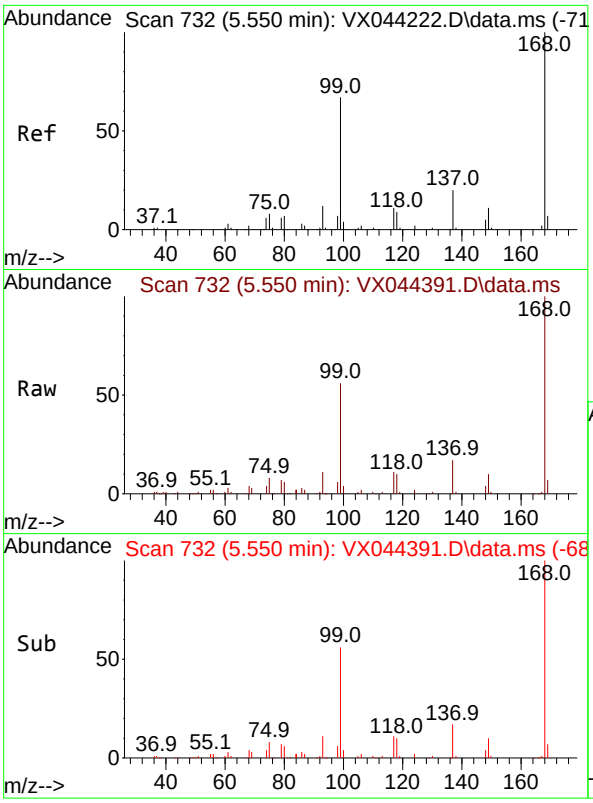
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044391.D
Acq On : 18 Dec 2024 18:18
Operator : JC/MD
Sample : P5281-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Quant Time: Dec 19 00:51:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



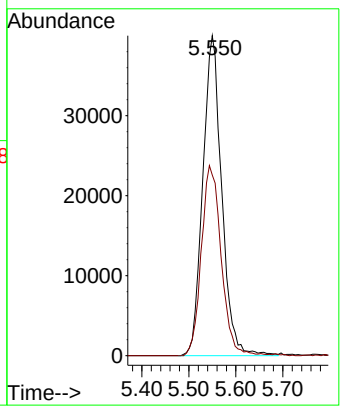


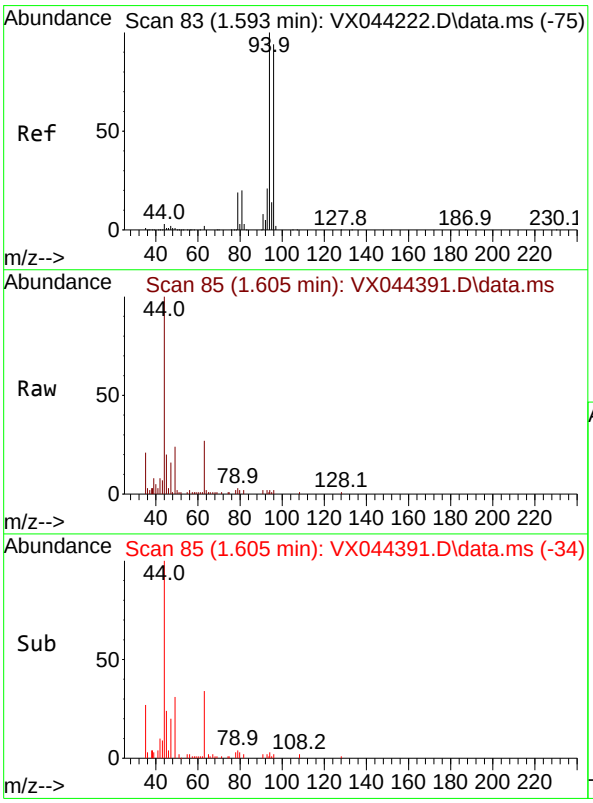
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion:168 Resp: 111808

Ion	Ratio	Lower	Upper
168	100		
99	56.4	53.4	80.0

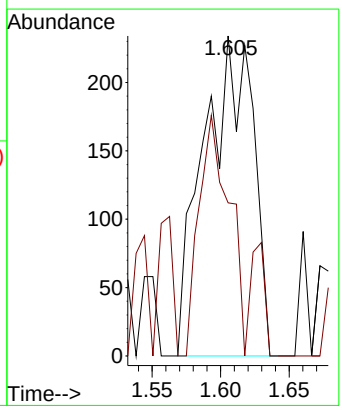


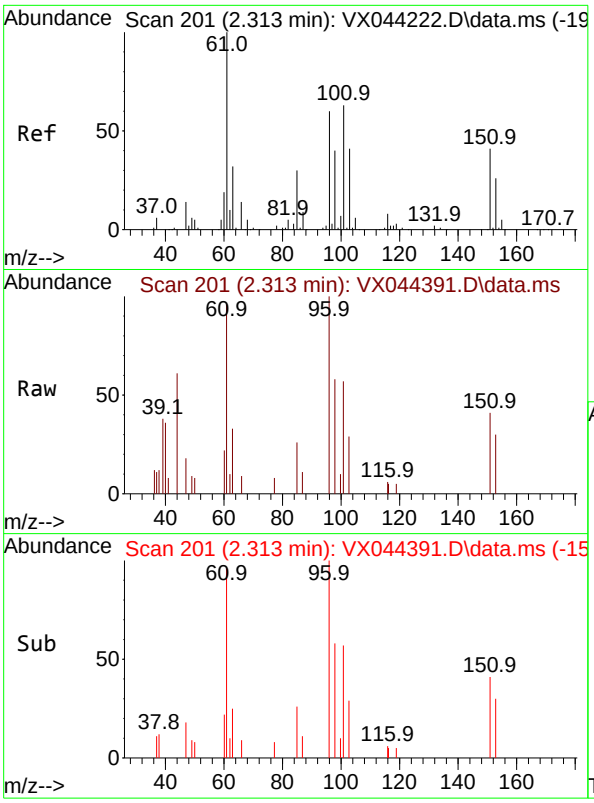


#5
Bromomethane
Concen: 0.480 ug/l
RT: 1.605 min Scan# 85
Delta R.T. 0.012 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 94 Resp: 587

Ion	Ratio	Lower	Upper
94	100		
96	47.9	74.9	112.3#



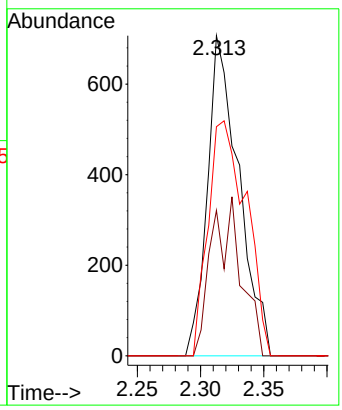


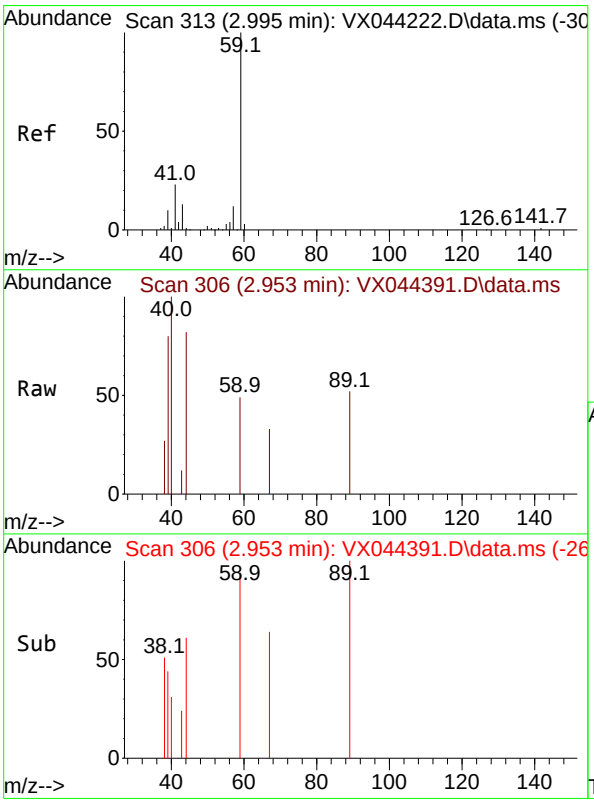
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.893 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion:101 Resp: 1218

Ion	Ratio	Lower	Upper
101	100		
85	46.9	38.5	57.7
151	88.9	55.8	83.6#

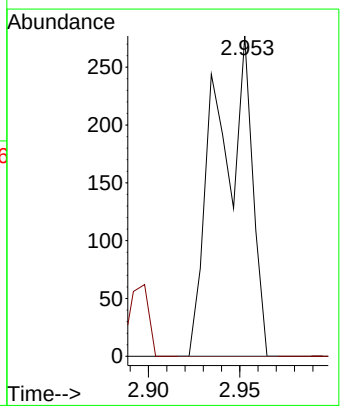


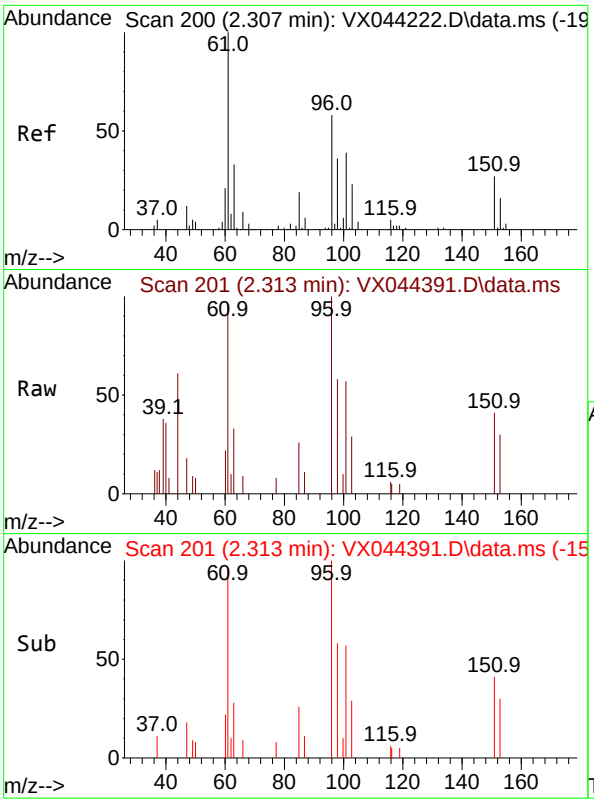


#11
Tert butyl alcohol
Concen: 1.357 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.043 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 59 Resp: 375

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#



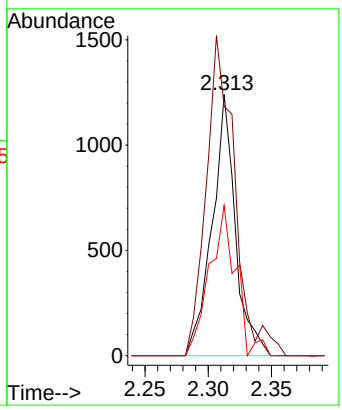


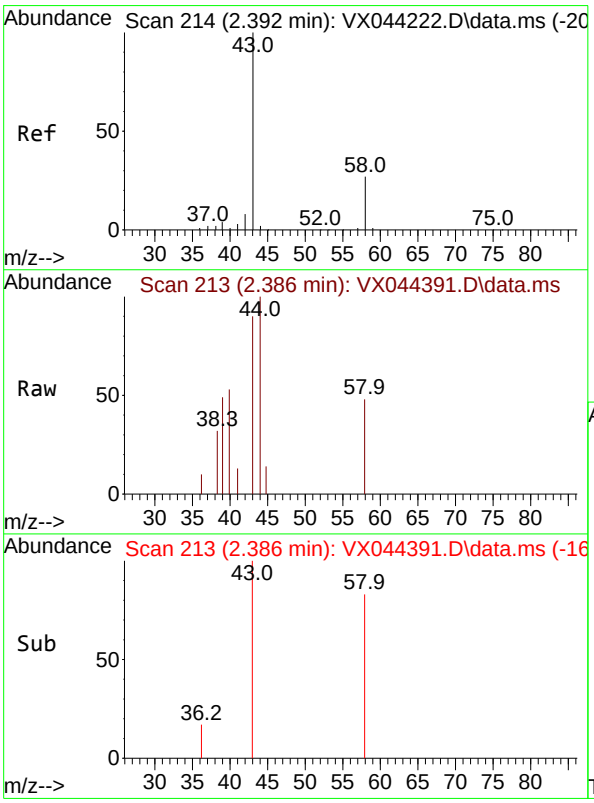
#12
1,1-Dichloroethene
Concen: 1.268 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion: 96 Resp: 1589

Ion	Ratio	Lower	Upper
96	100		
61	95.6	138.0	207.0#
98	57.5	50.0	75.0

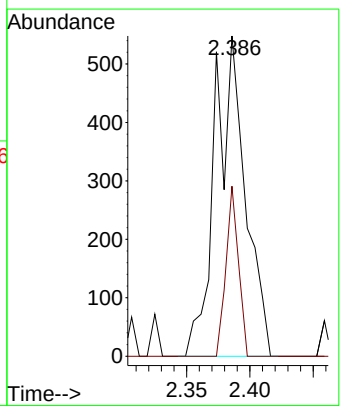


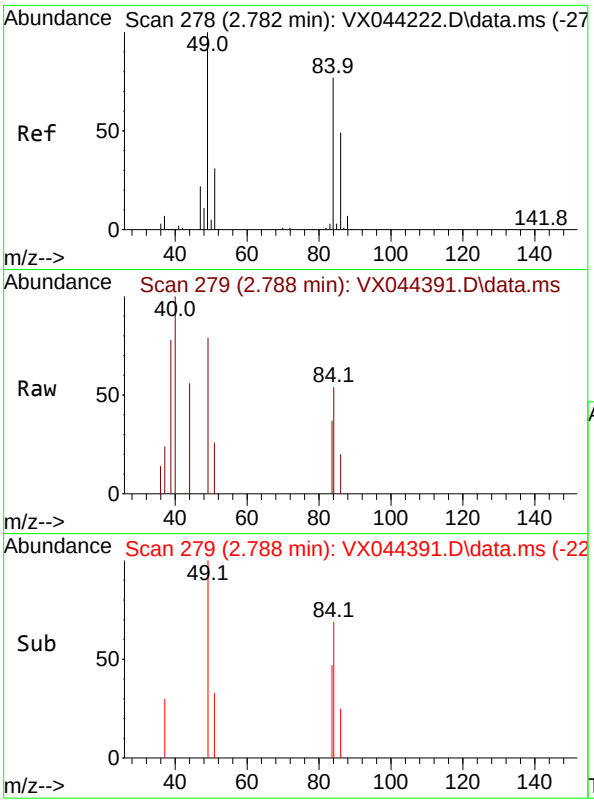


#16
Acetone
Concen: 1.149 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 43 Resp: 918

Ion	Ratio	Lower	Upper
43	100		
58	53.1	21.6	32.4#



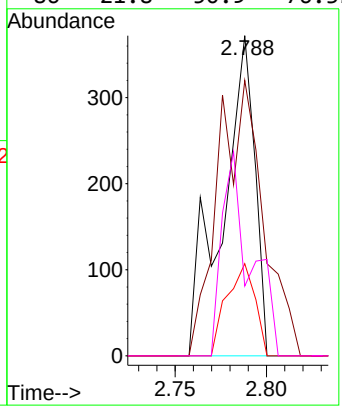


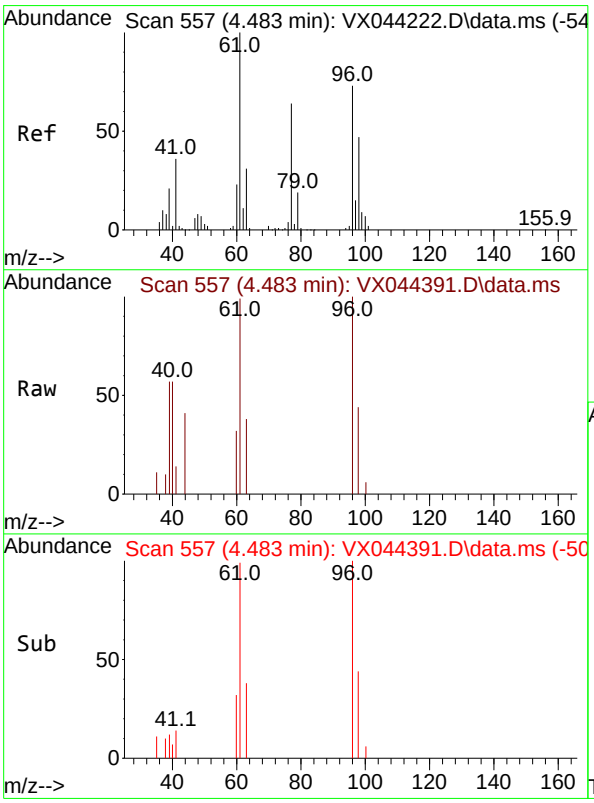
#20
Methylene Chloride
Concen: 0.306 ug/l
RT: 2.788 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion: 84 Resp: 459

Ion	Ratio	Lower	Upper
84	100		
49	86.0	104.2	156.4#
51	28.8	32.2	48.4#
86	21.8	50.9	76.3#

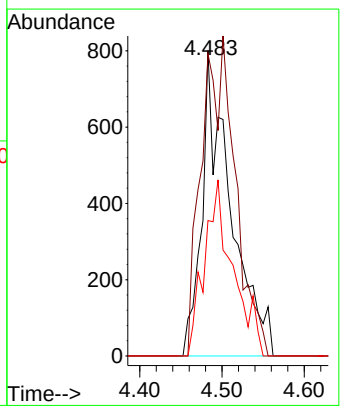


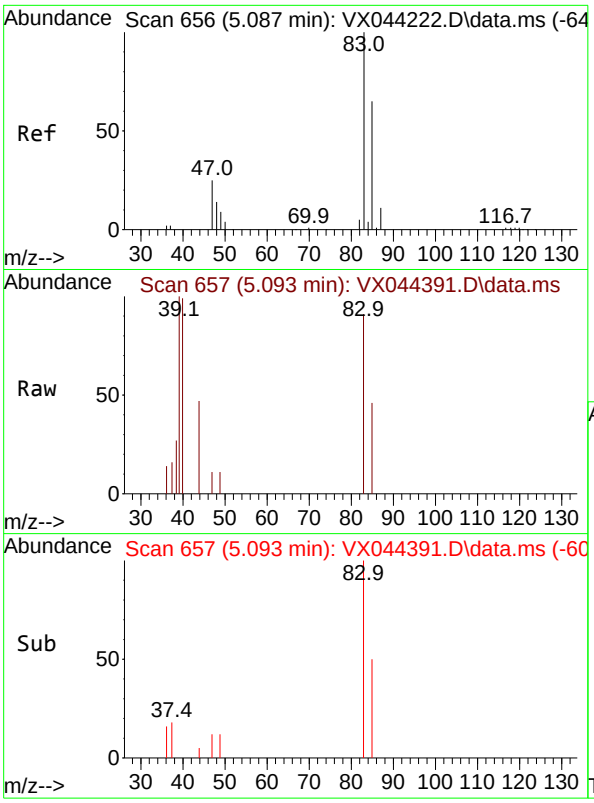


#27
cis-1,2-Dichloroethene
Concen: 1.153 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 96 Resp: 1951

Ion	Ratio	Lower	Upper
96	100		
61	63.6	0.0	299.0
98	56.9	0.0	129.0



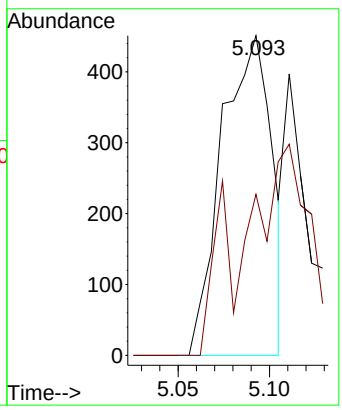


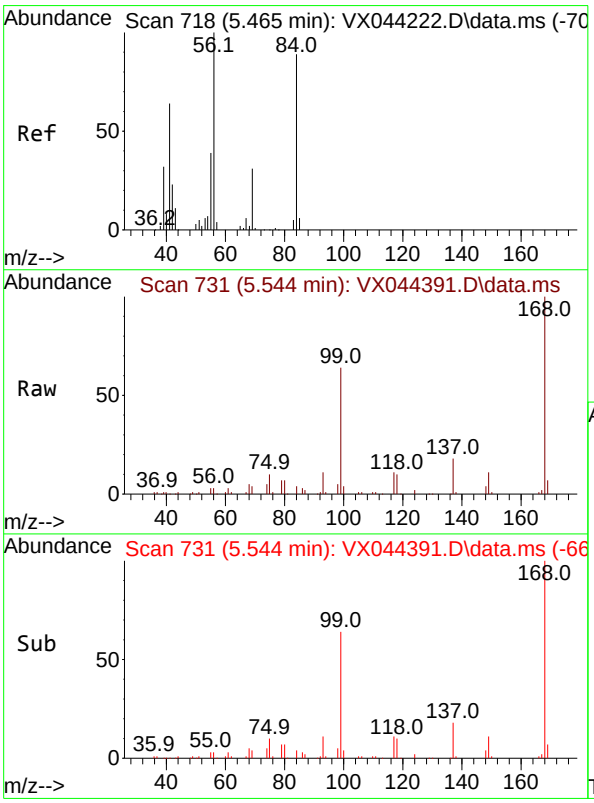
#30
Chloroform
Concen: 0.292 ug/l
RT: 5.093 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion: 83 Resp: 861

Ion	Ratio	Lower	Upper
83	100		
85	50.3	51.6	77.4#

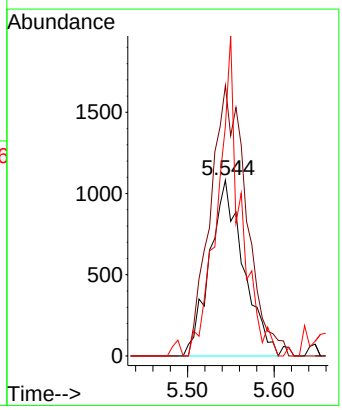


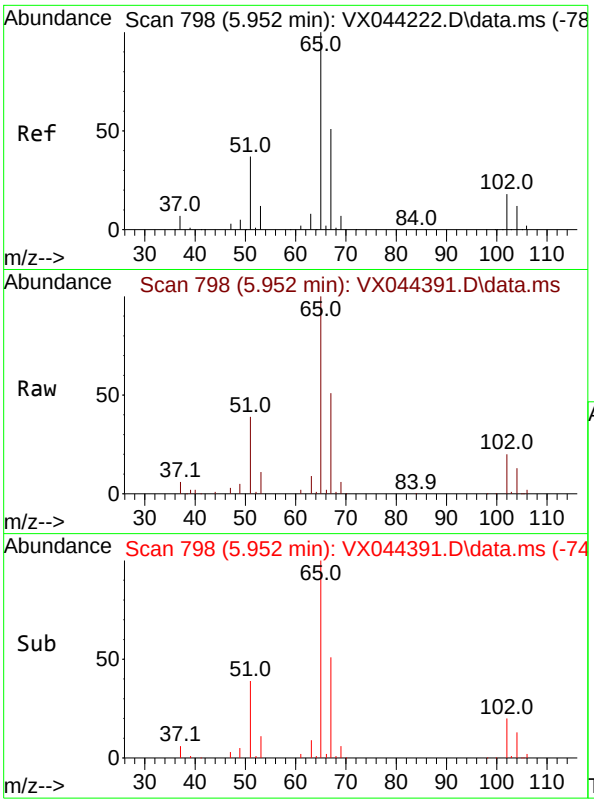


#31
Cyclohexane
Concen: 1.384 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.079 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 56 Resp: 2929

Ion	Ratio	Lower	Upper
56	100		
69	153.8	24.7	37.1#
84	130.7	71.0	106.6#



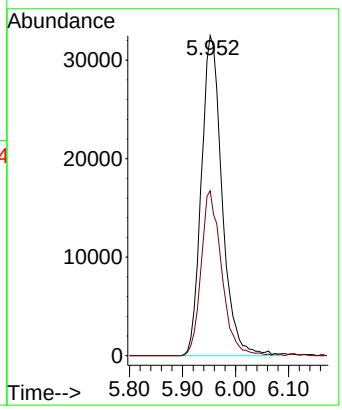


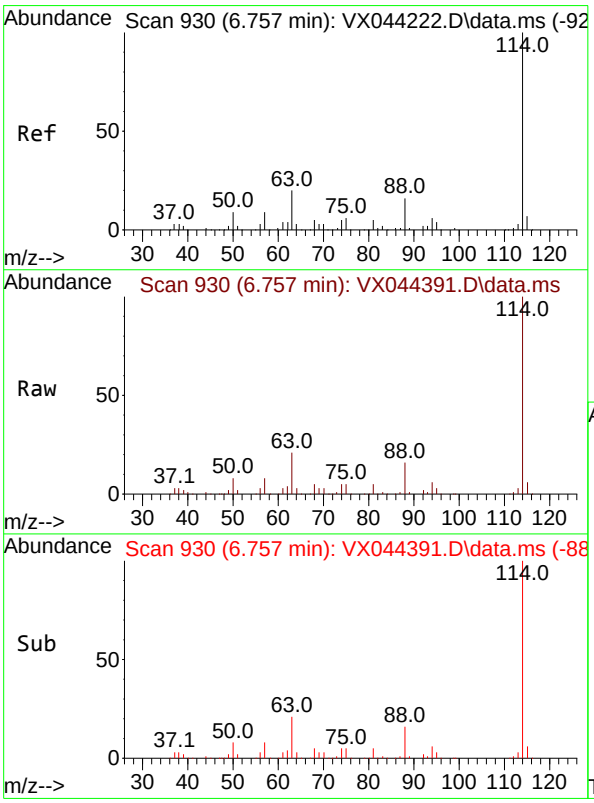
#33
1,2-Dichloroethane-d4
Concen: 44.941 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion: 65 Resp: 88101

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	101.6

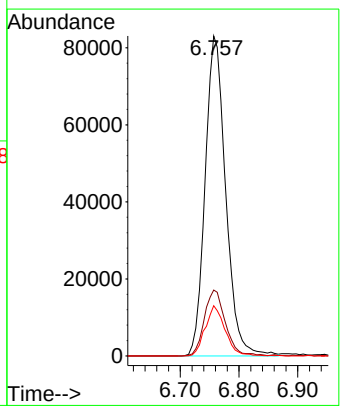


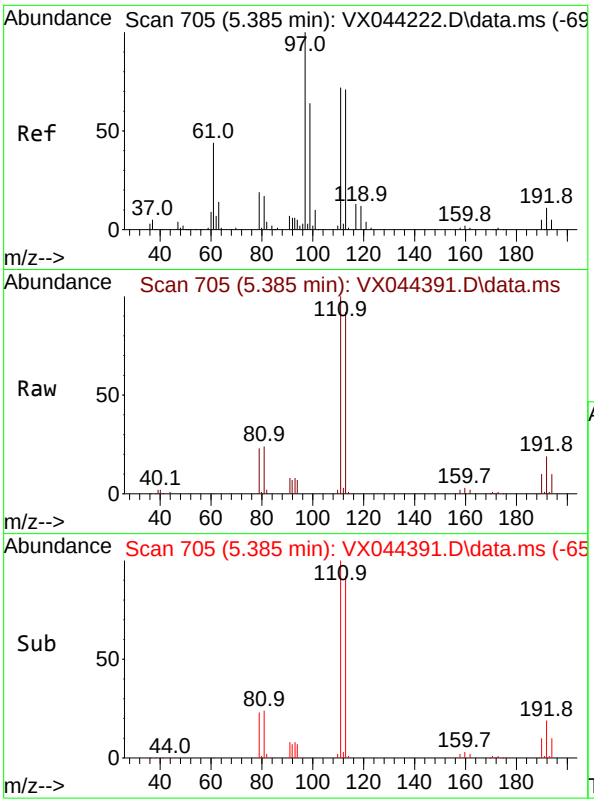


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:114 Resp: 202274

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.6
88	15.7	0.0	31.8



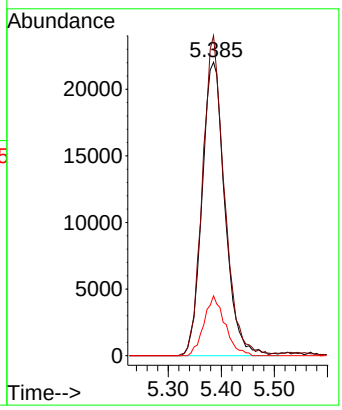


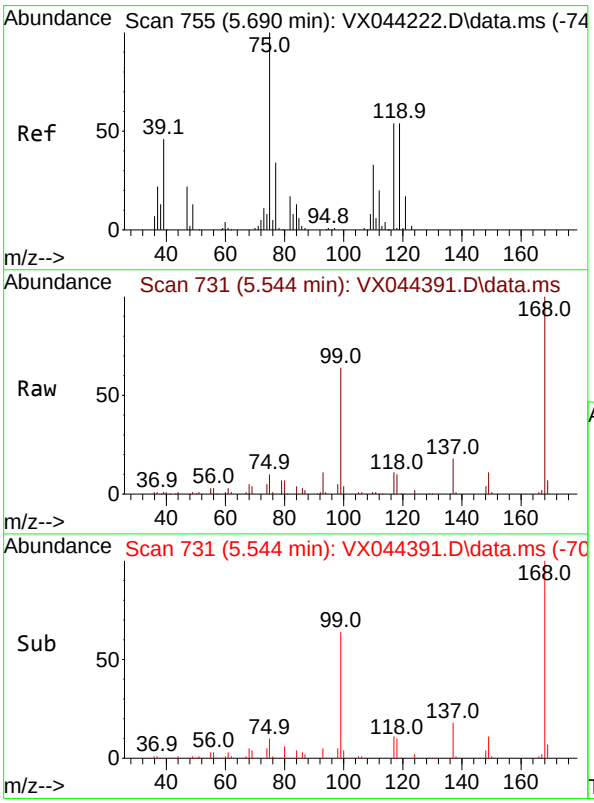
#35
Dibromofluoromethane
Concen: 47.011 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion:113 Resp: 65859

Ion	Ratio	Lower	Upper
113	100		
111	104.4	80.4	120.6
192	18.8	13.3	19.9

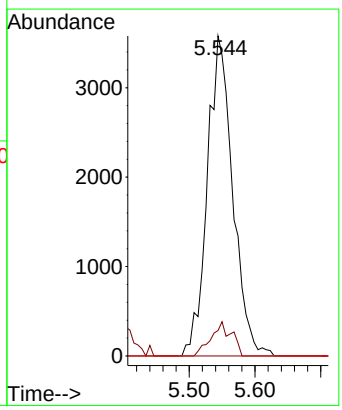


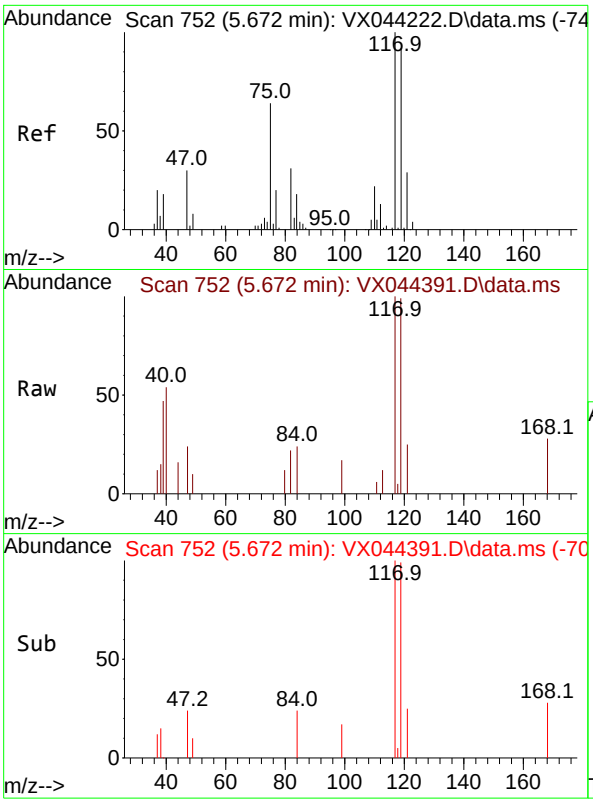


#36
1,1-Dichloropropene
Concen: 5.332 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.146 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 75 Resp: 9655

Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.3	51.7#
77	0.0	25.4	38.0#



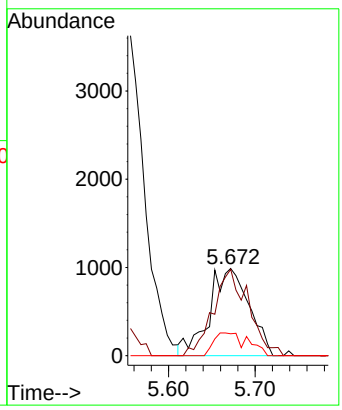


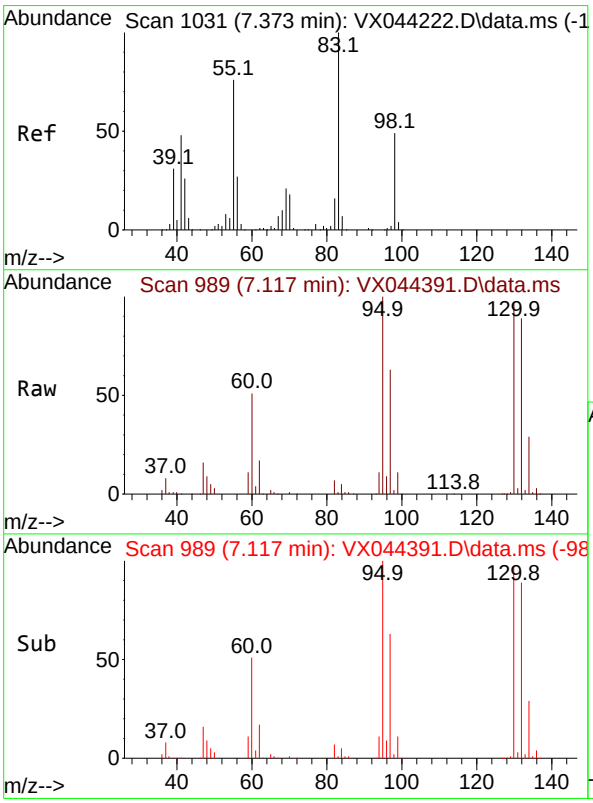
#38
Carbon Tetrachloride
Concen: 1.619 ug/l
RT: 5.672 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion:117 Resp: 3157

Ion	Ratio	Lower	Upper
117	100		
119	99.1	74.2	111.4
121	25.1	23.0	34.6

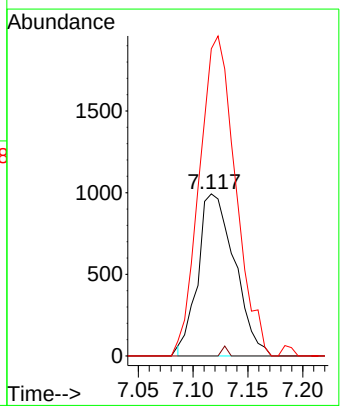


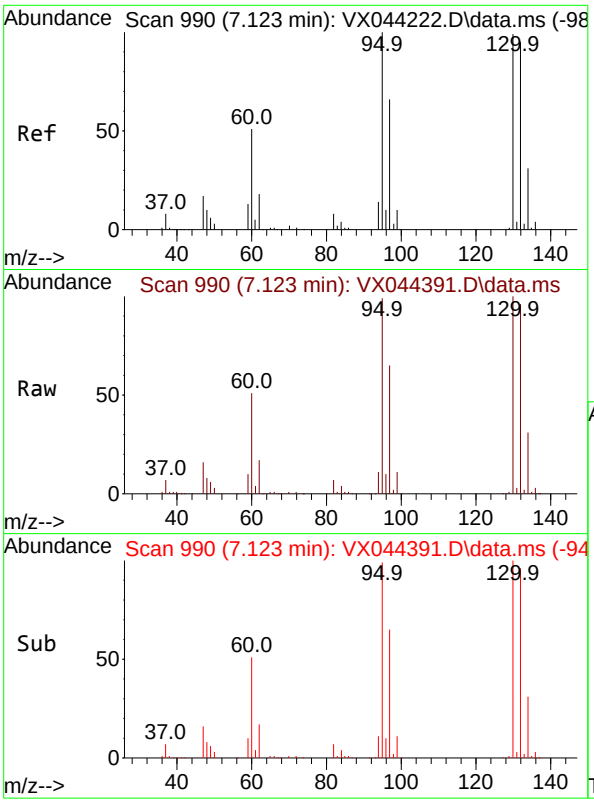


#39
Methylcyclohexane
Concen: 1.067 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.256 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 83 Resp: 2309

Ion	Ratio	Lower	Upper
83	100		
55	0.0	60.7	91.1#
98	189.5	38.9	58.3#



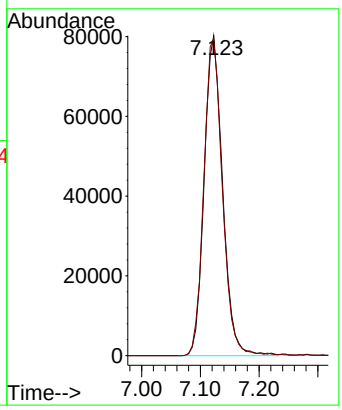


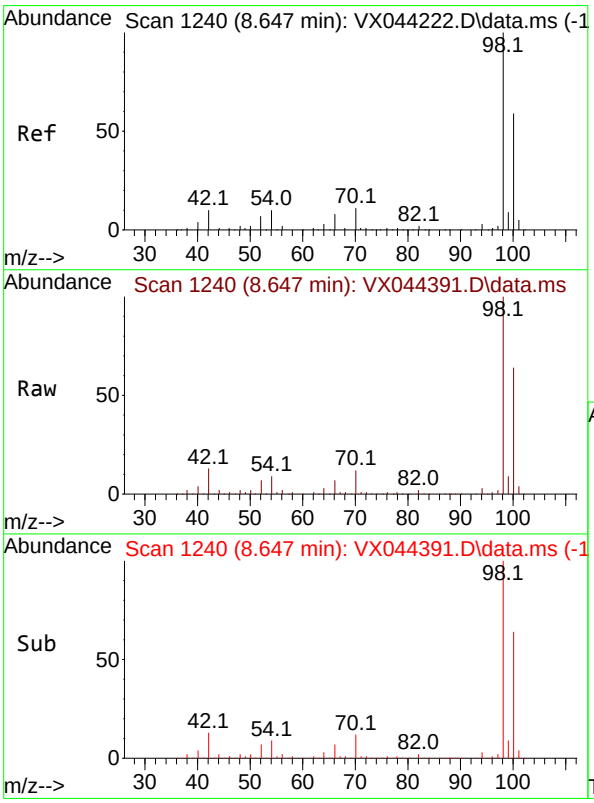
#44
Trichloroethene
Concen: 127.770 ug/l
RT: 7.123 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion:130 Resp: 175185

Ion	Ratio	Lower	Upper
130	100		
95	99.0	0.0	201.4

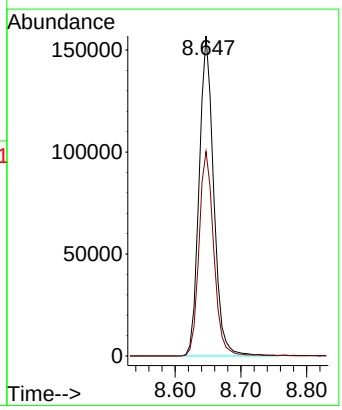


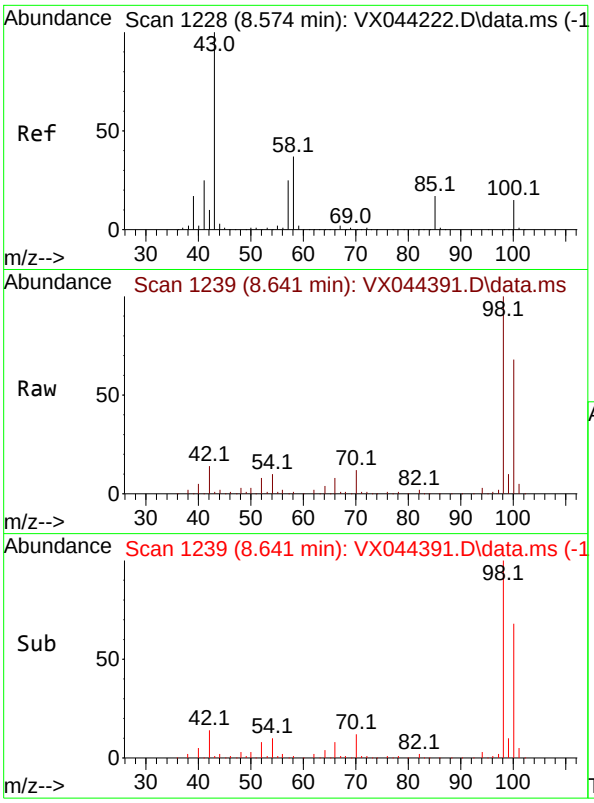


#50
Toluene-d8
Concen: 51.096 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 98 Resp: 241495

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.5	77.3



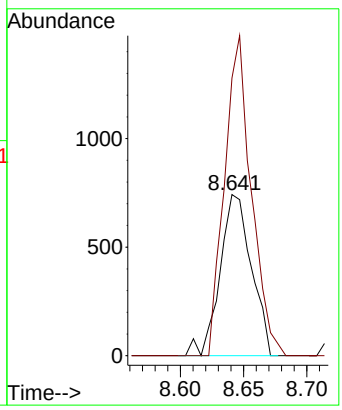


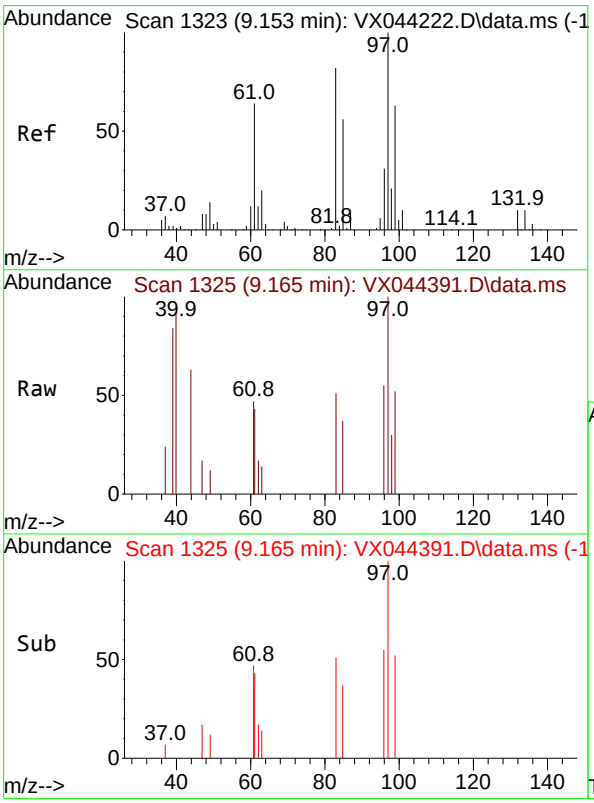
#51
4-Methyl-2-Pentanone
Concen: 0.569 ug/l
RT: 8.641 min Scan# 1
Delta R.T. 0.067 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion: 43 Resp: 1281

Ion	Ratio	Lower	Upper
43	100		
58	169.6	29.4	44.0#

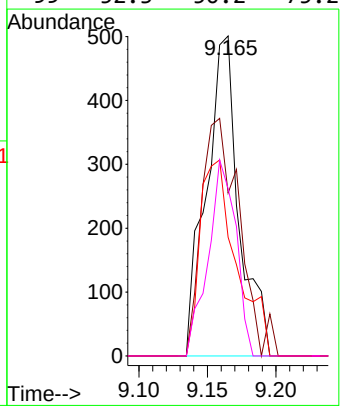


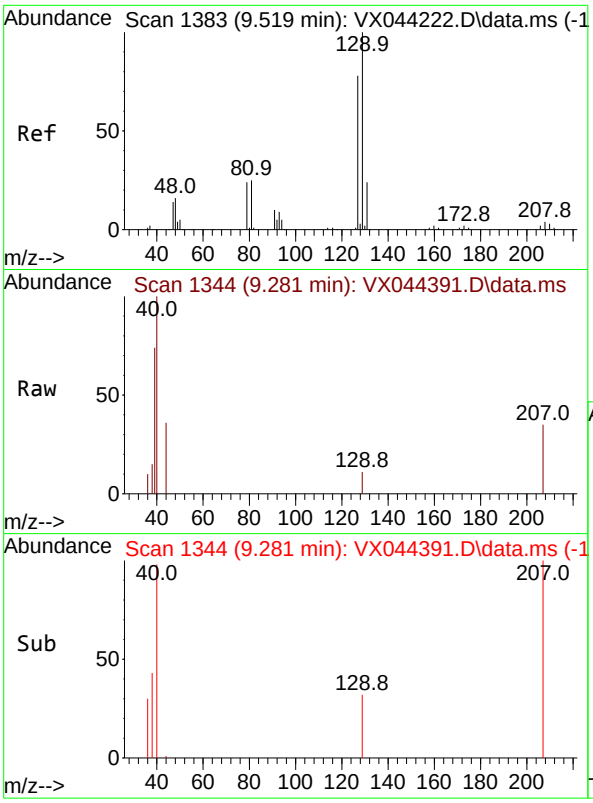


#55
1,1,2-Trichloroethane
Concen: 0.608 ug/l
RT: 9.165 min Scan# 1325
Delta R.T. 0.012 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 97 Resp: 834

Ion	Ratio	Lower	Upper
97	100		
83	50.9	65.3	97.9#
85	37.1	44.6	67.0#
99	52.3	50.2	75.2



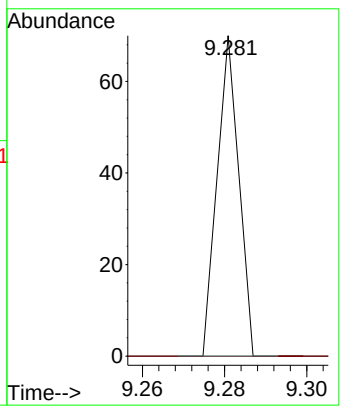


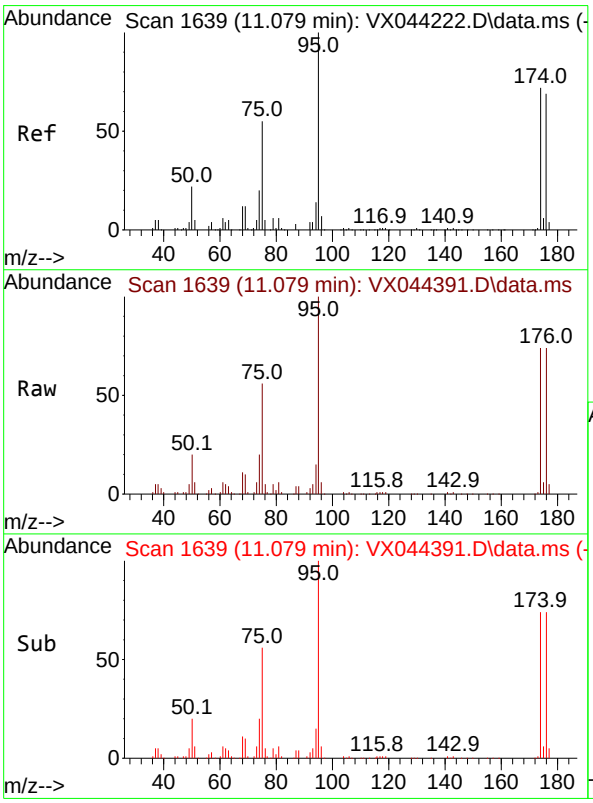
#60
Dibromochloromethane
Concen: 1.249 ug/l
RT: 9.281 min Scan# 1
Delta R.T. -0.238 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion:129 Resp: 26

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.5	115.3#

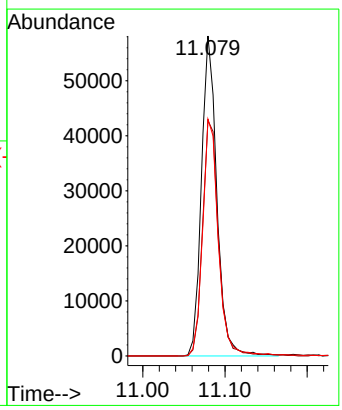


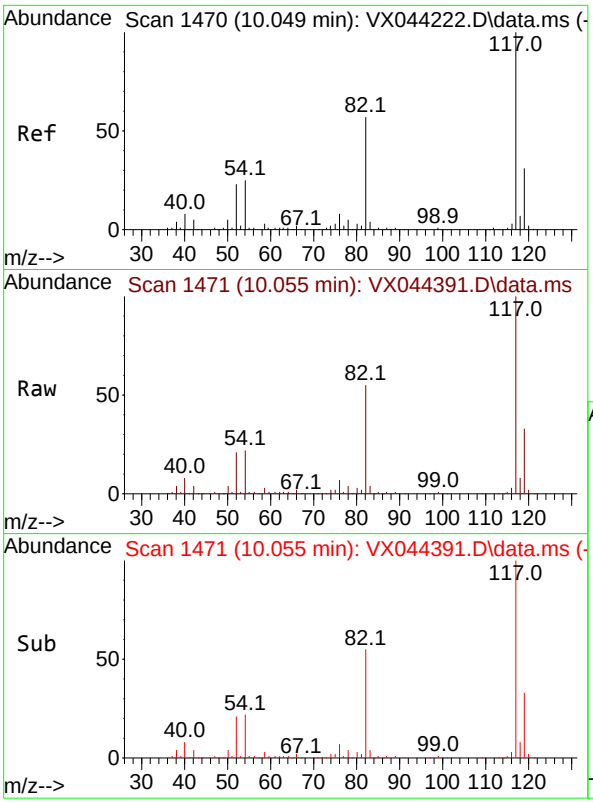


#62
4-Bromofluorobenzene
Concen: 45.797 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 95 Resp: 75633

Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	145.8
176	75.9	0.0	137.8



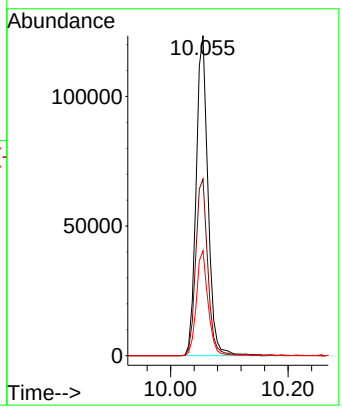


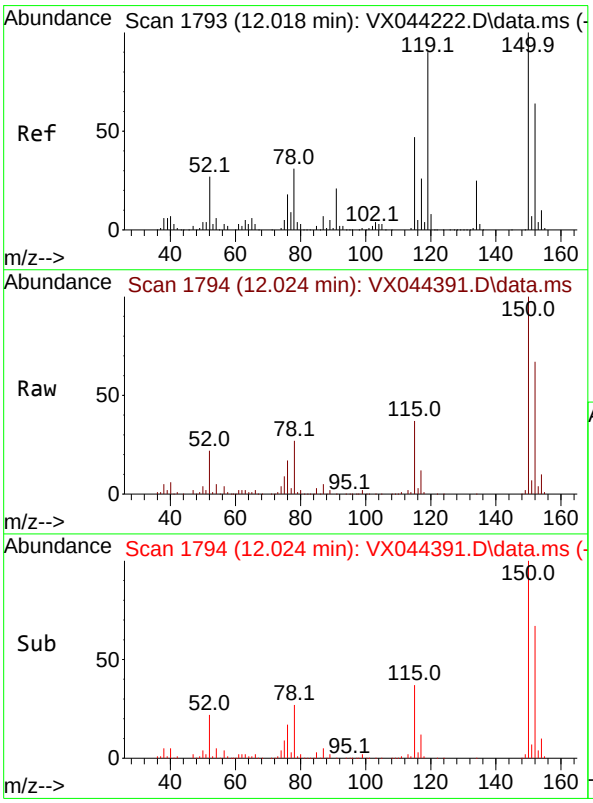
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion:117 Resp: 172810

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.8	68.8
119	32.8	25.0	37.4

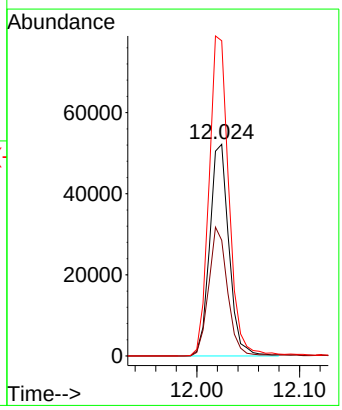


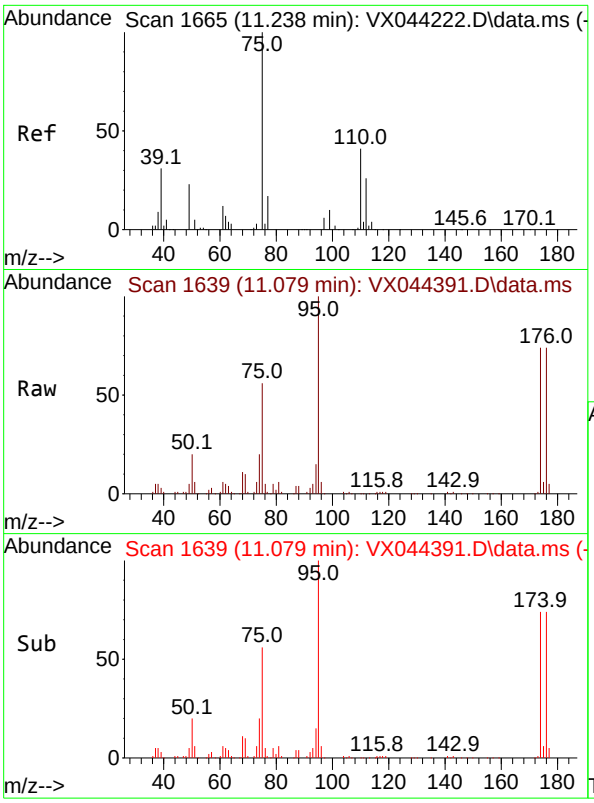


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion:152 Resp: 67944

Ion	Ratio	Lower	Upper
152	100		
115	60.0	44.5	133.3
150	156.1	0.0	353.8



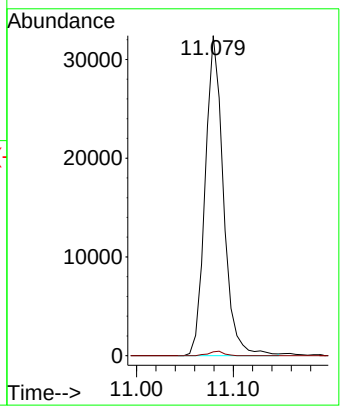


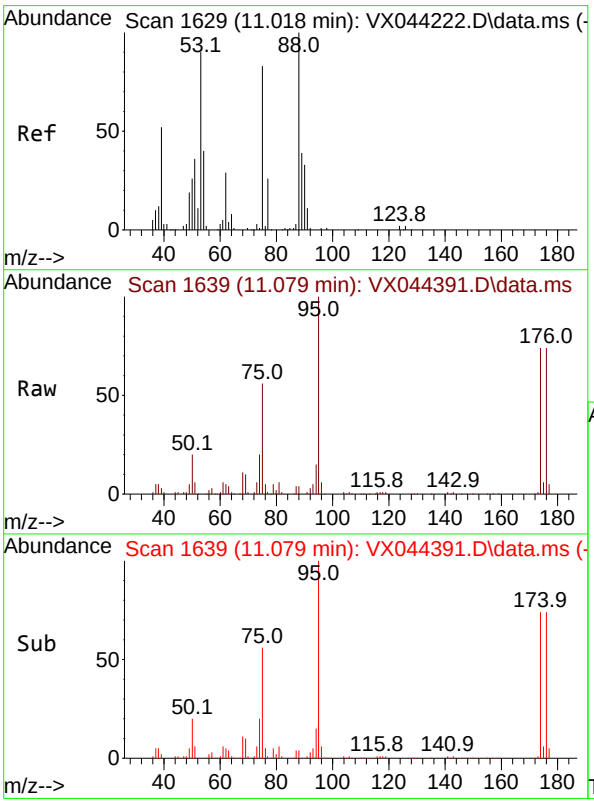
#76
1,2,3-Trichloropropane
Concen: 27.991 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.159 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20241213

Tgt Ion: 75 Resp: 42463

Ion	Ratio	Lower	Upper
75	100		
77	1.2	20.9	62.7#

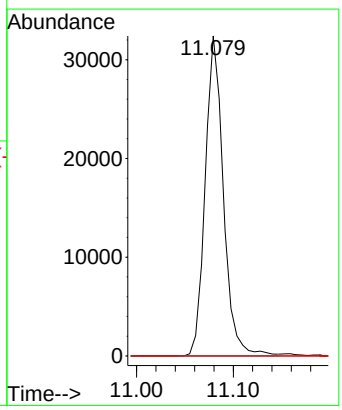




#81
trans-1,4-Dichloro-2-butene
Concen: 76.838 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044391.D
Acq: 18 Dec 2024 18:18

Tgt Ion: 75 Resp: 42463

Ion	Ratio	Lower	Upper
75	100		
53	0.0	93.6	140.4#
89	0.0	37.3	55.9#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044393.D
Acq On : 18 Dec 2024 19:05
Operator : JC/MD
Sample : P5281-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Quant Time: Dec 19 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

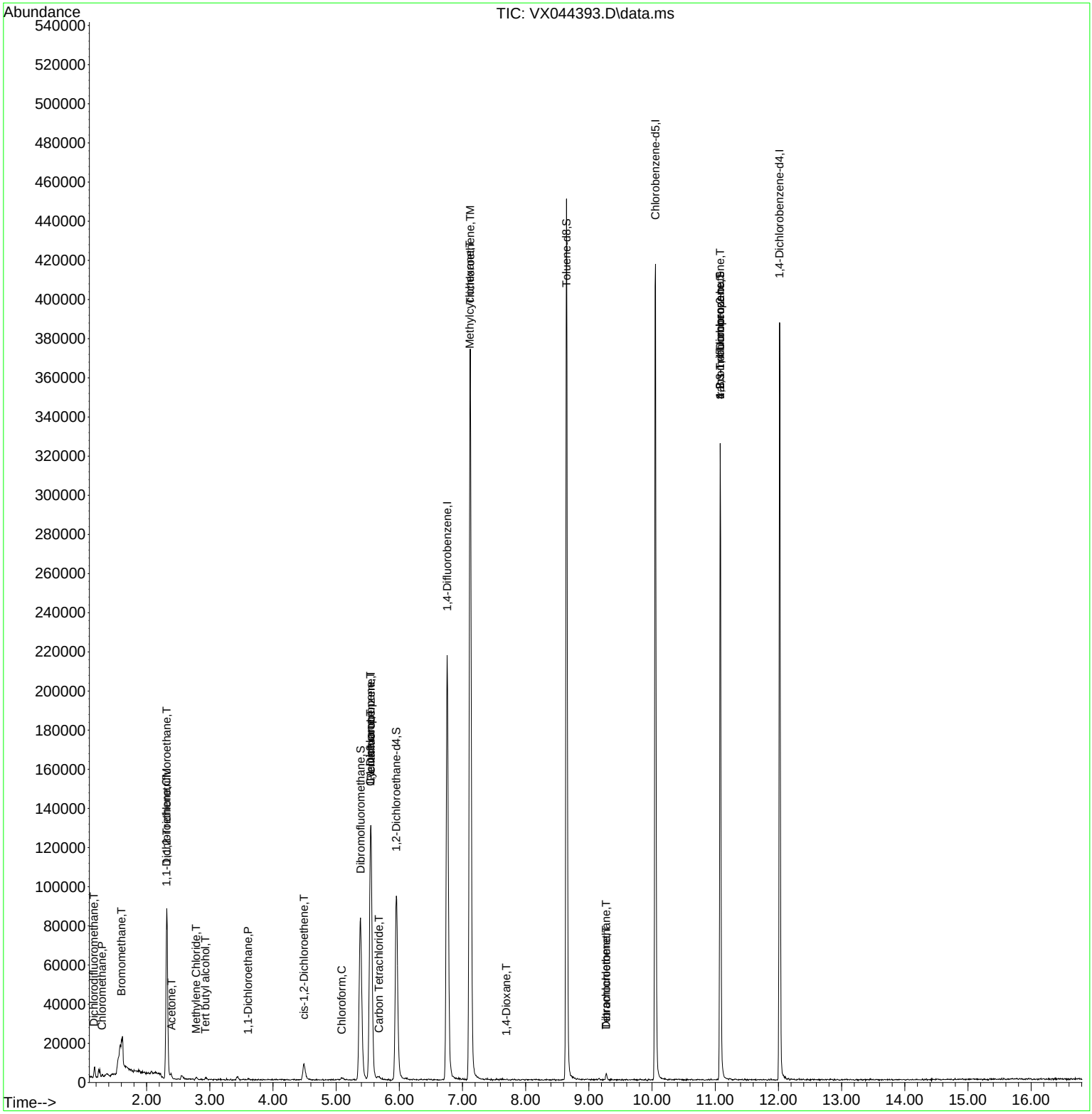
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.550	168	120659	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	218055	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	189518	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76670	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.952	65	93052	43.985	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.960%				
35) Dibromofluoromethane	5.385	113	69510	46.026	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.060%				
50) Toluene-d8	8.647	98	258473	50.730	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.460%				
62) 4-Bromofluorobenzene	11.079	95	83335	46.808	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.620%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	1005	0.539	ug/l		98
3) Chloromethane	1.294	50	963	0.540	ug/l	#	83
5) Bromomethane	1.599	94	339	0.257	ug/l	#	80
9) 1,1,2-Trichlorotrifluo...	2.319	101	31525	21.410	ug/l		97
11) Tert butyl alcohol	2.928	59	243	0.815	ug/l	#	71
12) 1,1-Dichloroethene	2.313	96	1614	1.193	ug/l	#	75
16) Acetone	2.392	43	1671	1.937	ug/l	#	74
20) Methylene Chloride	2.782	84	452	0.279	ug/l	#	62
24) 1,1-Dichloroethane	3.605	63	791	0.280	ug/l	#	82
27) cis-1,2-Dichloroethene	4.489	96	5069	2.777	ug/l		94
30) Chloroform	5.086	83	816	0.257	ug/l		96
31) Cyclohexane	5.544	56	3519	1.541	ug/l	#	43
36) 1,1-Dichloropropene	5.544	75	10514	5.386	ug/l	#	45
38) Carbon Tetrachloride	5.678	117	1040	0.495	ug/l	#	80
39) Methylcyclohexane	7.117	83	1883	0.807	ug/l	#	1
44) Trichloroethene	7.123	130	140111	94.793	ug/l		98
49) 1,4-Dioxane	7.690	88	401	13.210	ug/l	#	55
60) Dibromochloromethane	9.275	129	716	1.698	ug/l	#	11
64) Tetrachloroethene	9.275	164	489	0.389	ug/l	#	82
76) 1,2,3-Trichloropropane	11.079	75	45740	26.720	ug/l	#	36
81) trans-1,4-Dichloro-2-b...	11.079	75	45740	73.601	ug/l	#	4

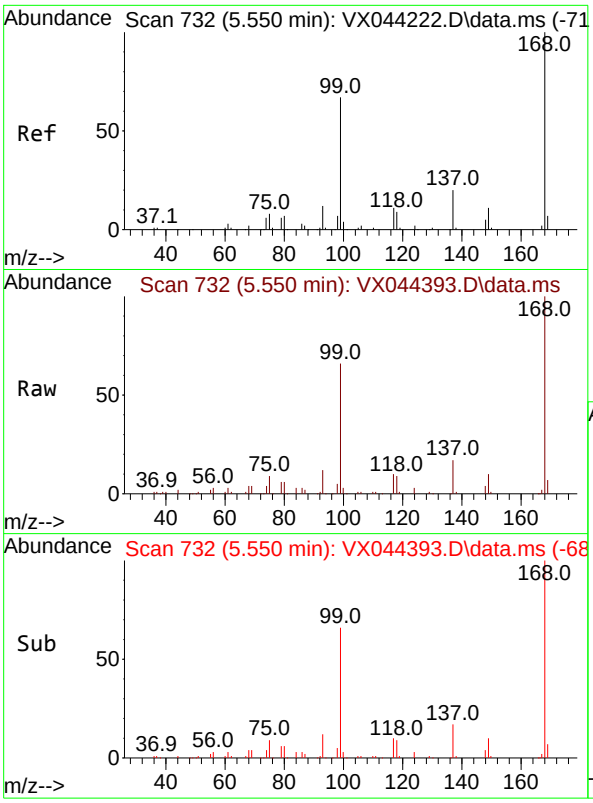
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044393.D
Acq On : 18 Dec 2024 19:05
Operator : JC/MD
Sample : P5281-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Quant Time: Dec 19 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



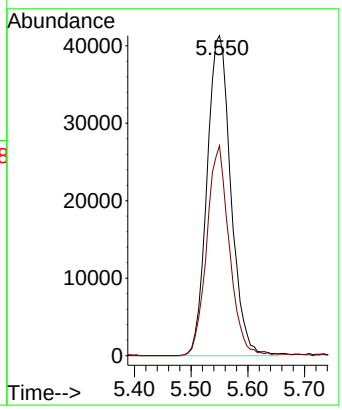


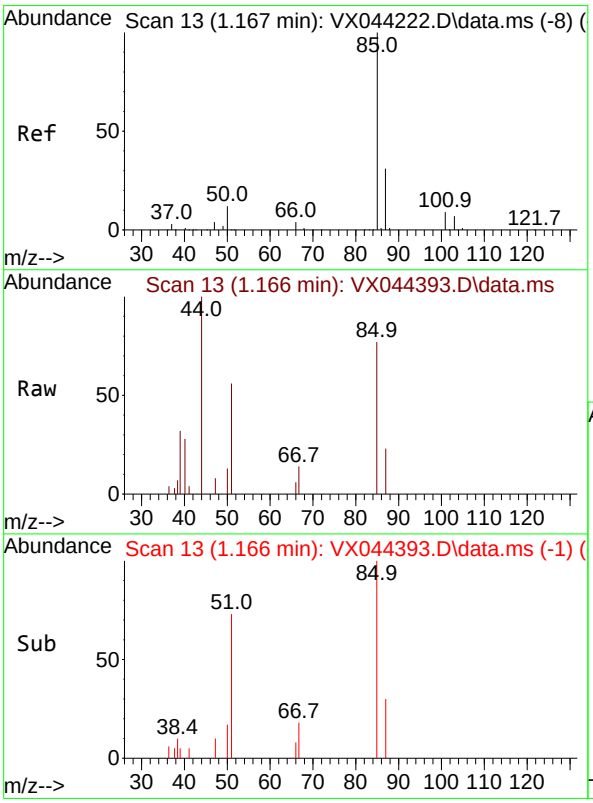
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion:168 Resp: 120659

Ion	Ratio	Lower	Upper
168	100		
99	65.7	53.4	80.0

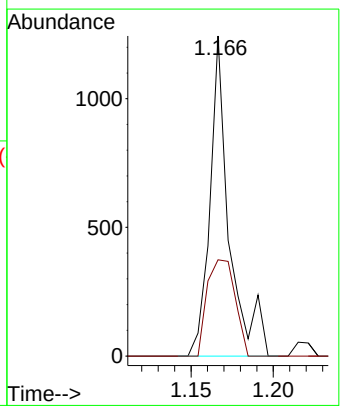


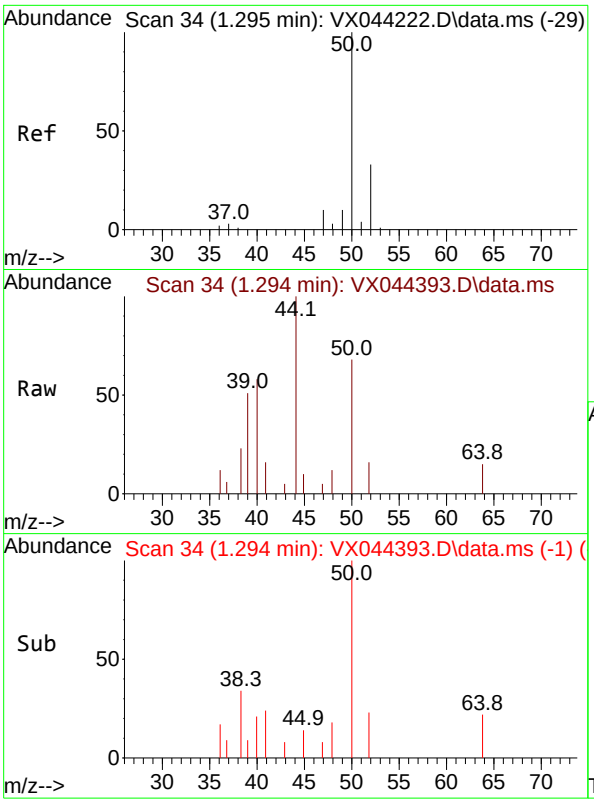


#2
Dichlorodifluoromethane
Concen: 0.539 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 85 Resp: 1005

Ion	Ratio	Lower	Upper
85	100		
87	30.1	15.4	46.4



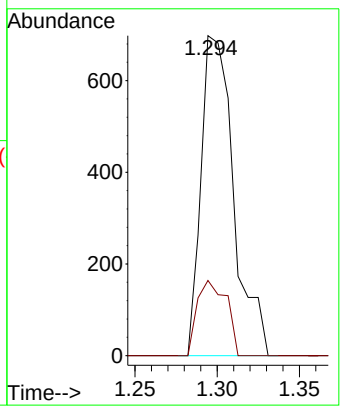


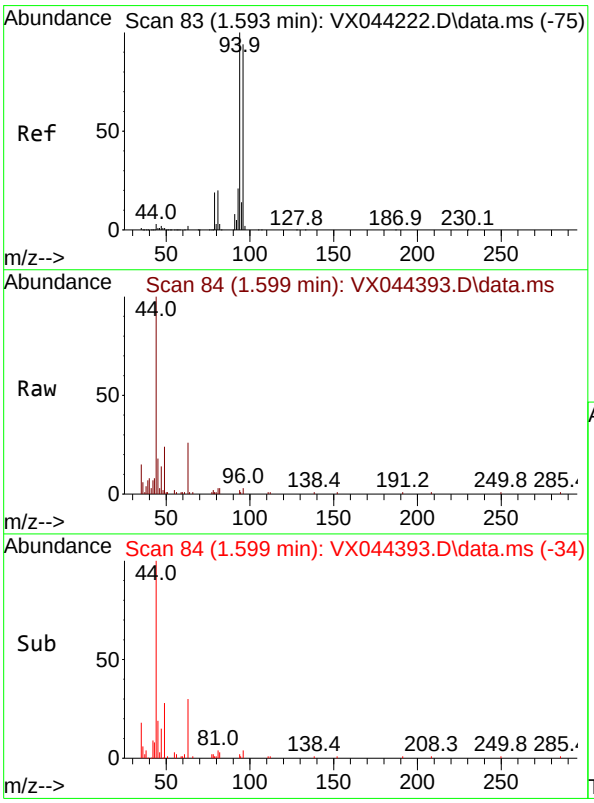
#3
Chloromethane
Concen: 0.540 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 50 Resp: 963

Ion	Ratio	Lower	Upper
50	100		
52	23.5	26.5	39.7#

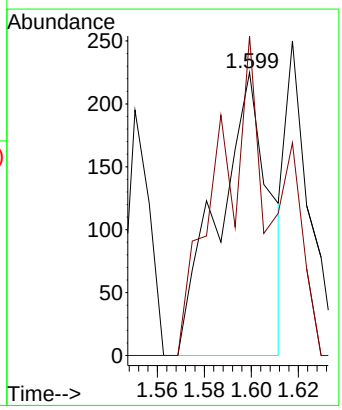


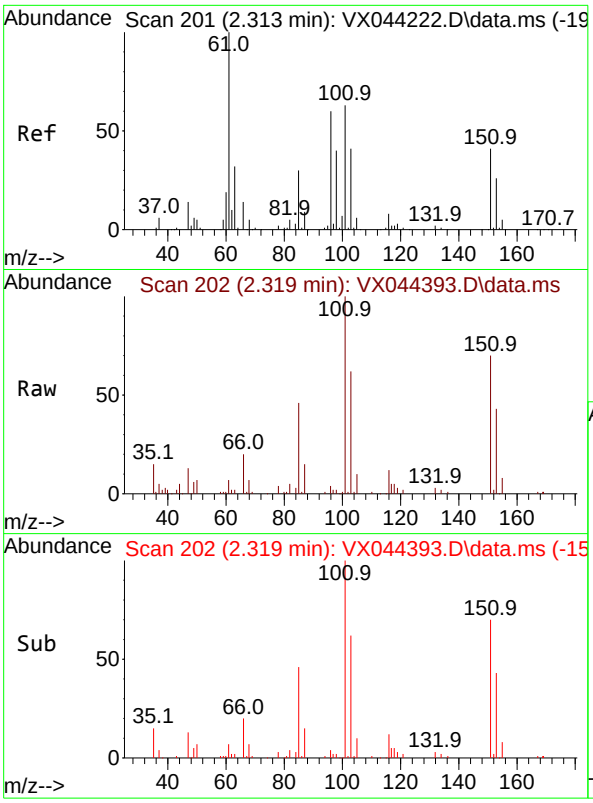


#5
Bromomethane
Concen: 0.257 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 94 Resp: 339

Ion	Ratio	Lower	Upper
94	100		
96	112.9	74.9	112.3#



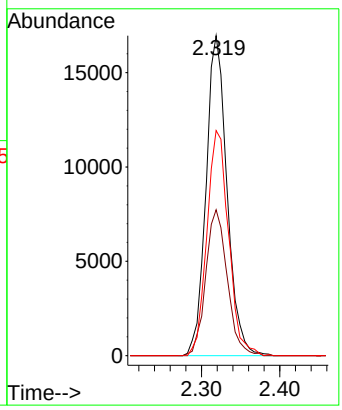


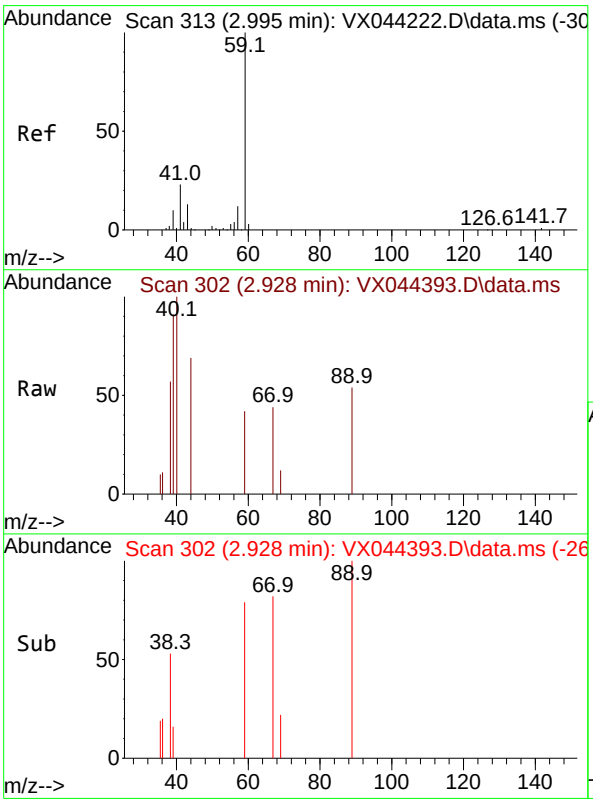
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.410 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion:101 Resp: 31525

Ion	Ratio	Lower	Upper
101	100		
85	46.8	38.5	57.7
151	72.7	55.8	83.6

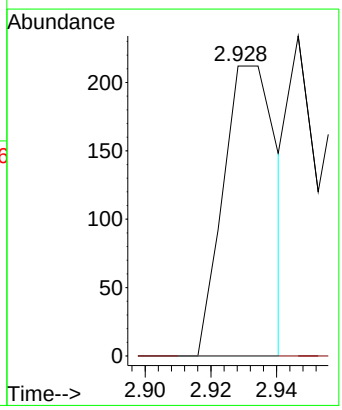


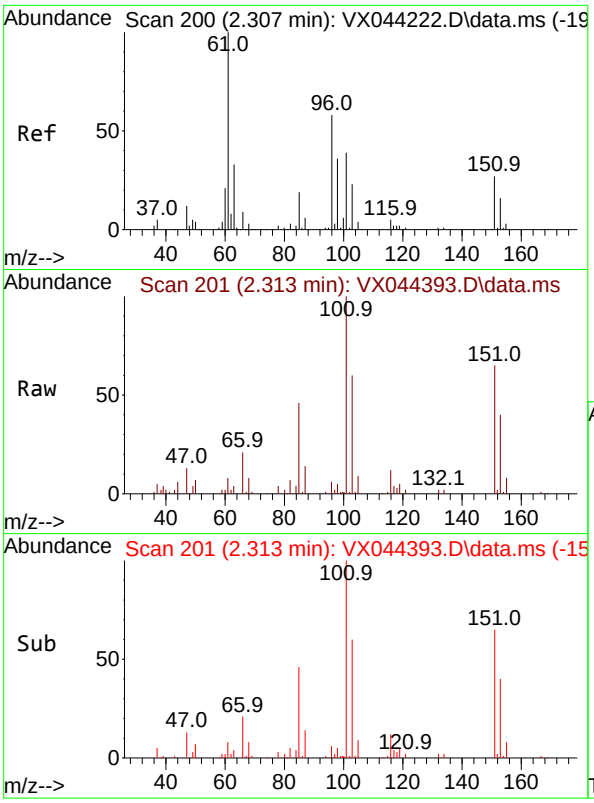


#11
Tert butyl alcohol
Concen: 0.815 ug/l
RT: 2.928 min Scan# 302
Delta R.T. -0.067 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 59 Resp: 243

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#



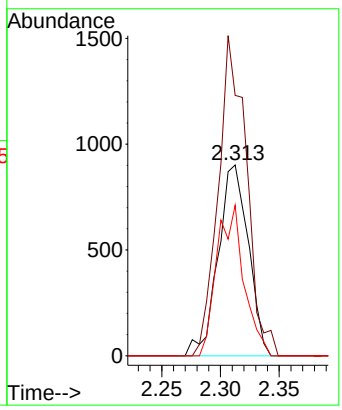


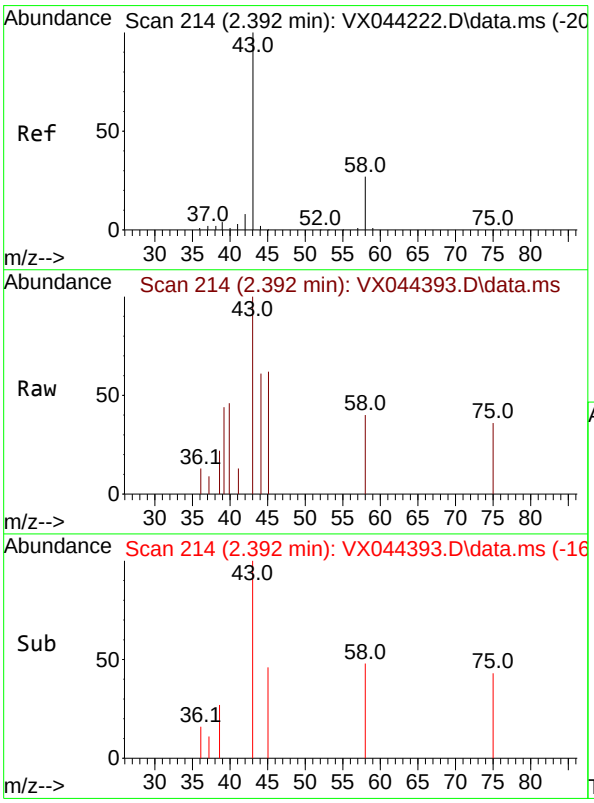
#12
1,1-Dichloroethene
Concen: 1.193 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 96 Resp: 1614

Ion	Ratio	Lower	Upper
96	100		
61	136.5	138.0	207.0#
98	78.8	50.0	75.0#

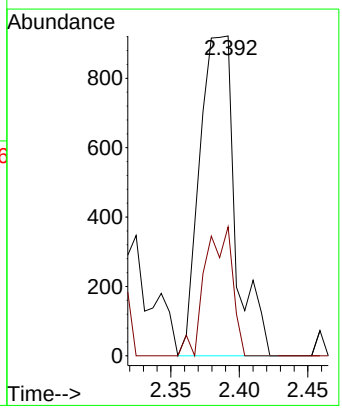


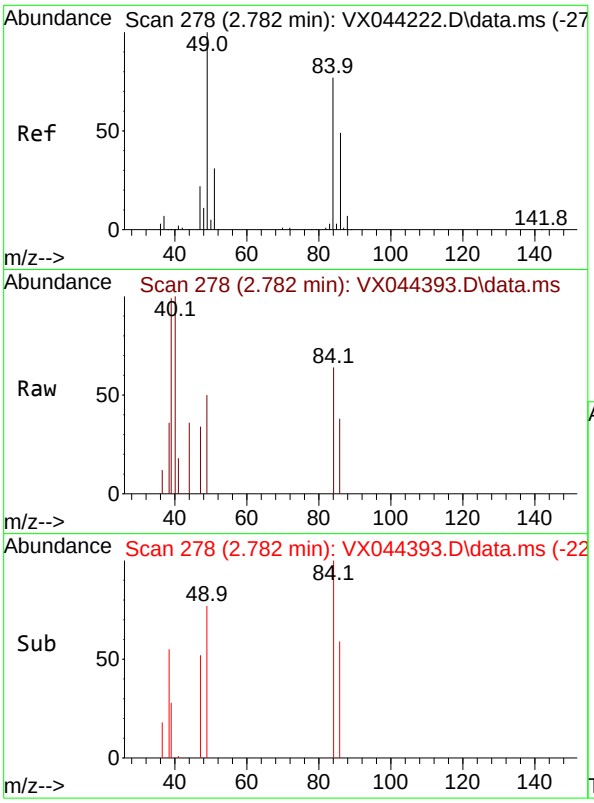


#16
Acetone
Concen: 1.937 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 43 Resp: 1671

Ion	Ratio	Lower	Upper
43	100		
58	40.3	21.6	32.4#



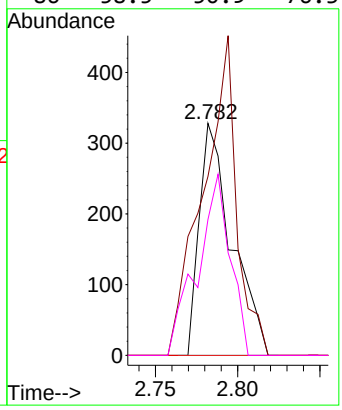


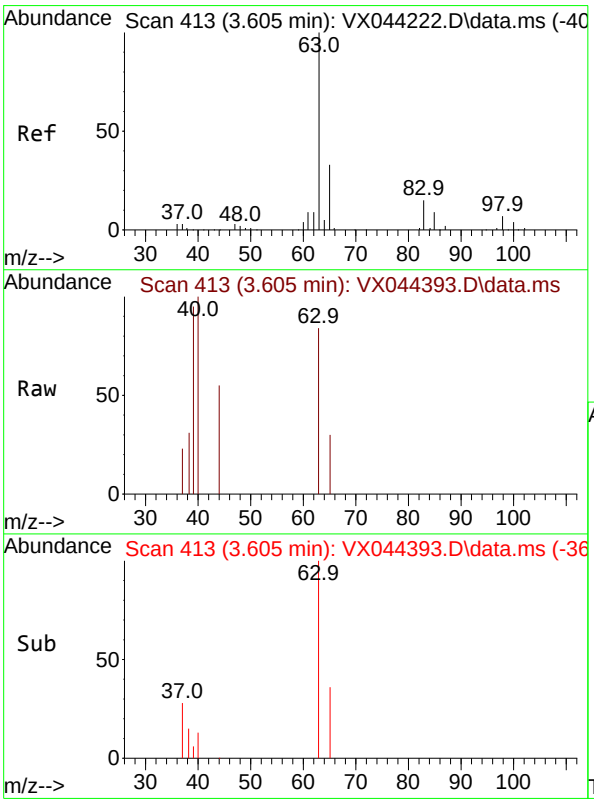
#20
Methylene Chloride
Concen: 0.279 ug/l
RT: 2.782 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 84 Resp: 452

Ion	Ratio	Lower	Upper
84	100		
49	77.1	104.2	156.4#
51	0.0	32.2	48.4#
86	58.5	50.9	76.3

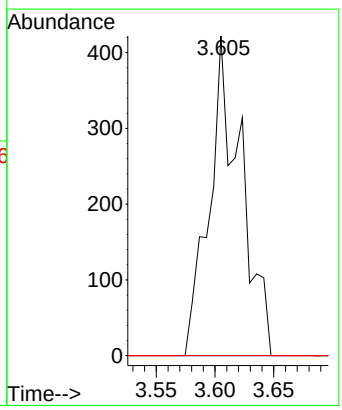


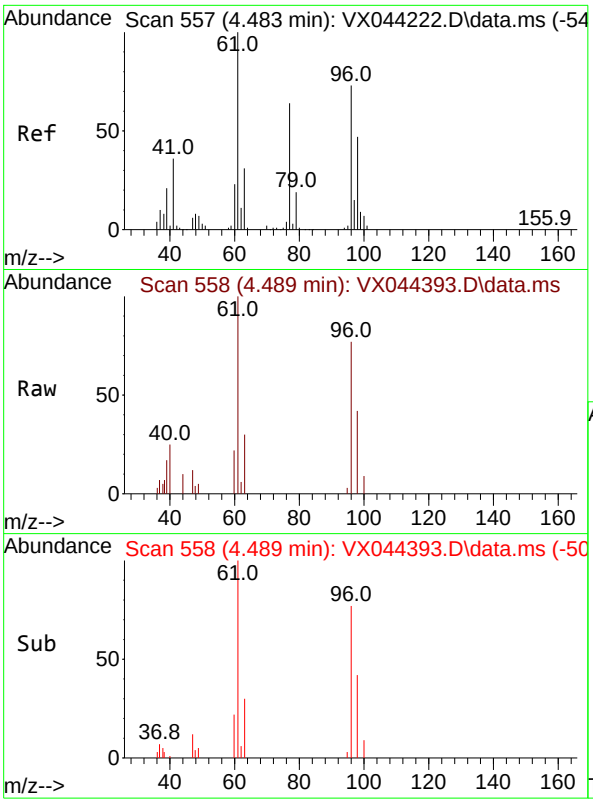


#24
1,1-Dichloroethane
Concen: 0.280 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 63 Resp: 791

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.6	10.8#
100	0.0	2.1	6.3#



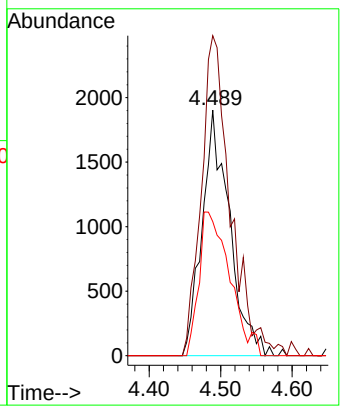


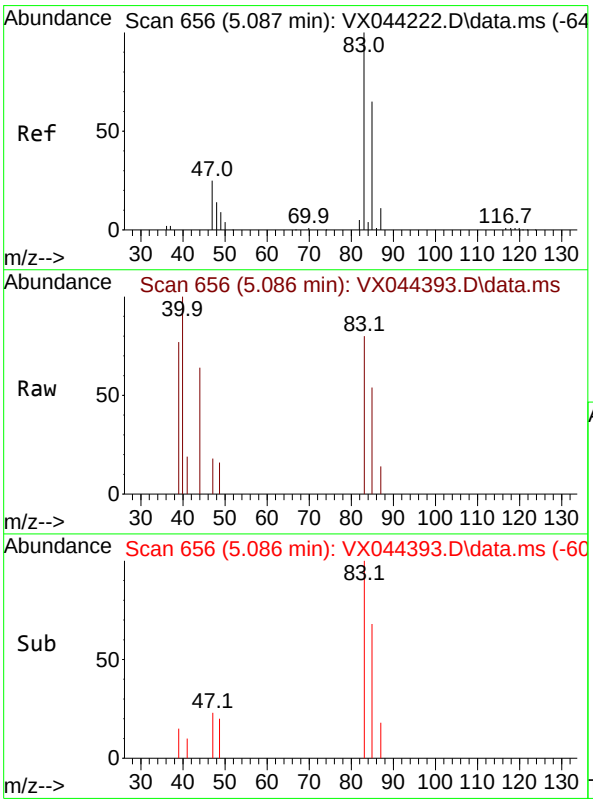
#27
cis-1,2-Dichloroethene
Concen: 2.777 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 96 Resp: 5069

Ion	Ratio	Lower	Upper
96	100		
61	139.2	0.0	299.0
98	65.8	0.0	129.0

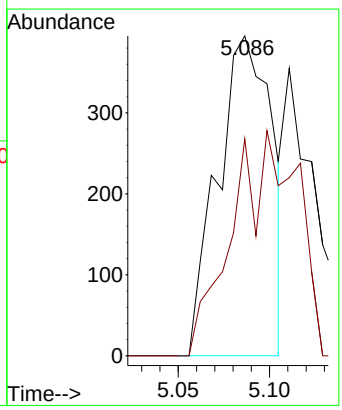


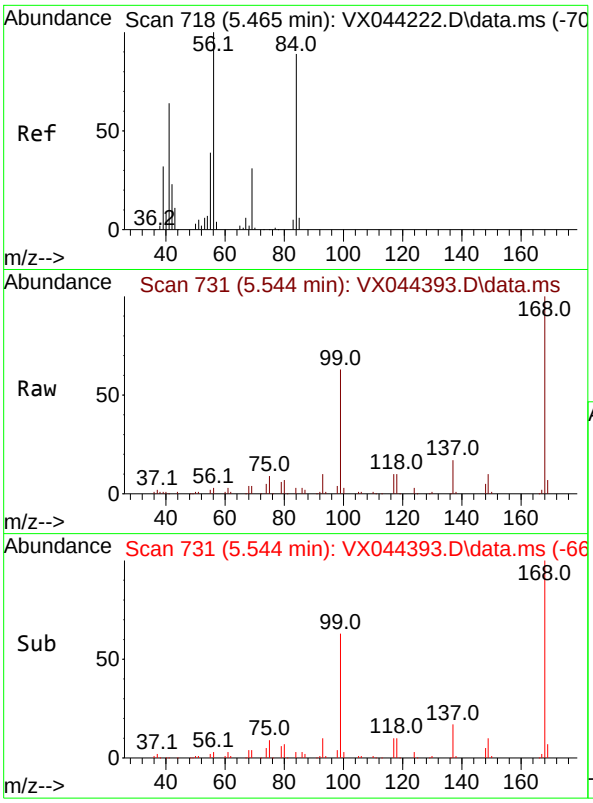


#30
Chloroform
Concen: 0.257 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 83 Resp: 816

Ion	Ratio	Lower	Upper
83	100		
85	67.8	51.6	77.4



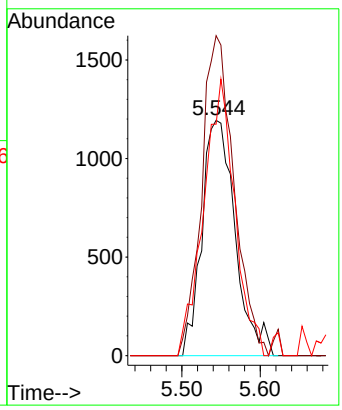


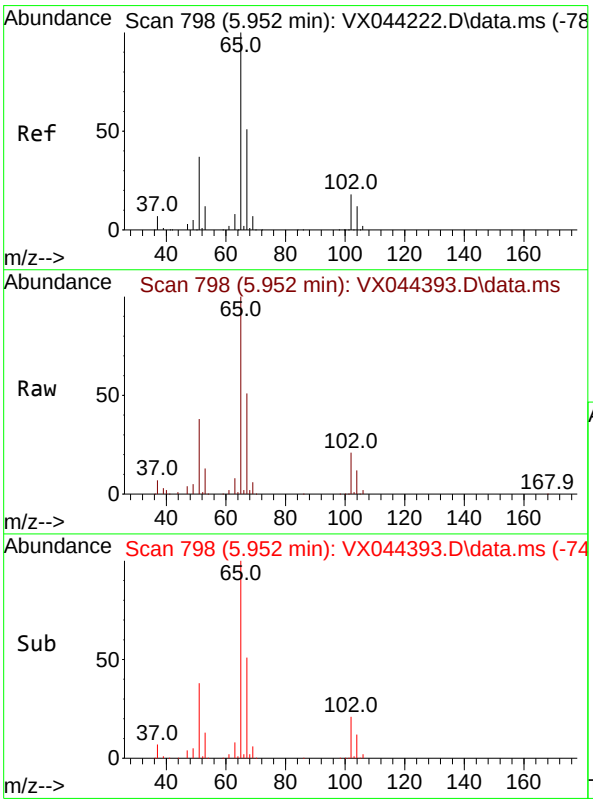
#31
Cyclohexane
Concen: 1.541 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.079 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 56 Resp: 3519

Ion	Ratio	Lower	Upper
56	100		
69	135.9	24.7	37.1#
84	98.3	71.0	106.6

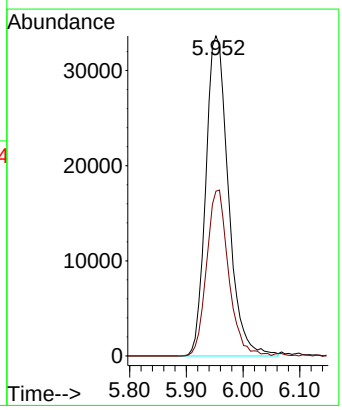


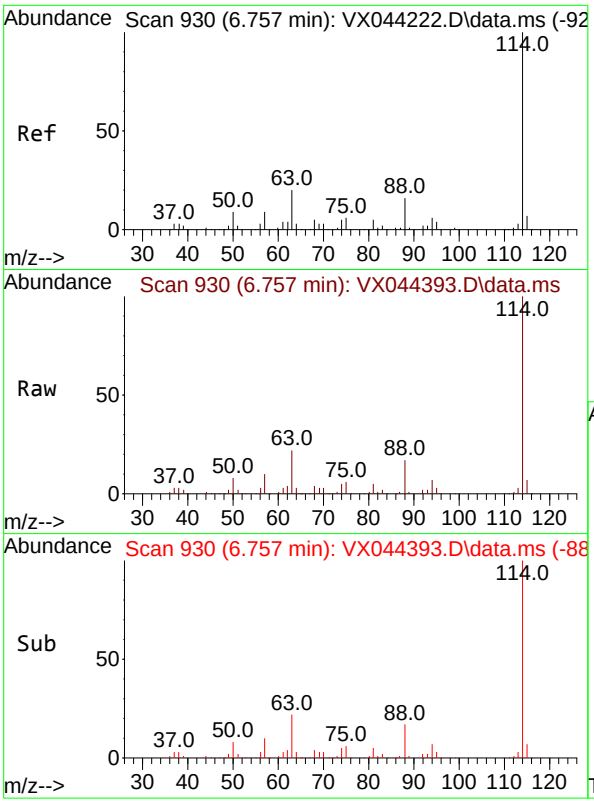


#33
1,2-Dichloroethane-d4
Concen: 43.985 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 65 Resp: 93052

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	101.6



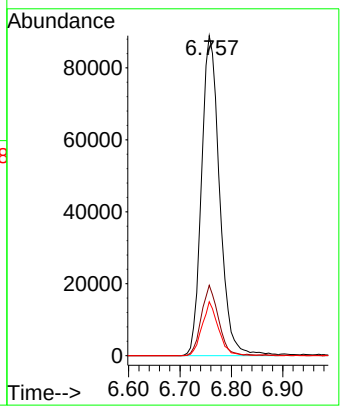


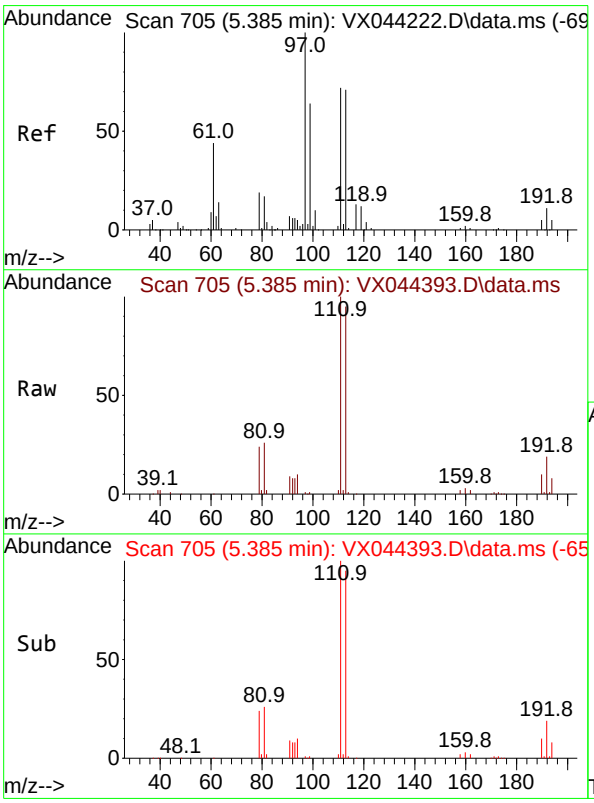
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion:114 Resp: 218055

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.6
88	16.9	0.0	31.8

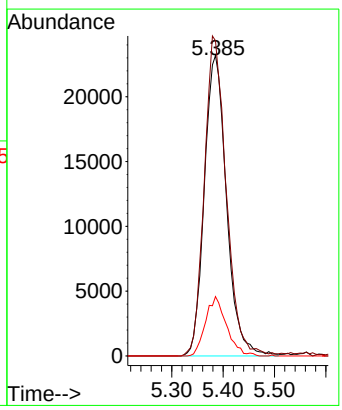


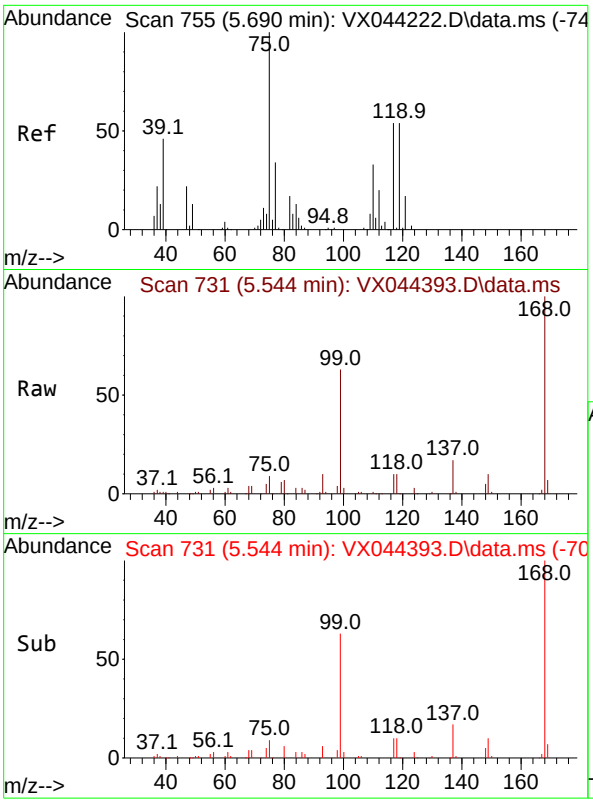


#35
Dibromofluoromethane
Concen: 46.026 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:113 Resp: 69510

Ion	Ratio	Lower	Upper
113	100		
111	105.0	80.4	120.6
192	18.8	13.3	19.9



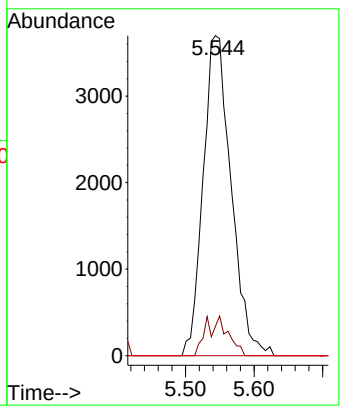


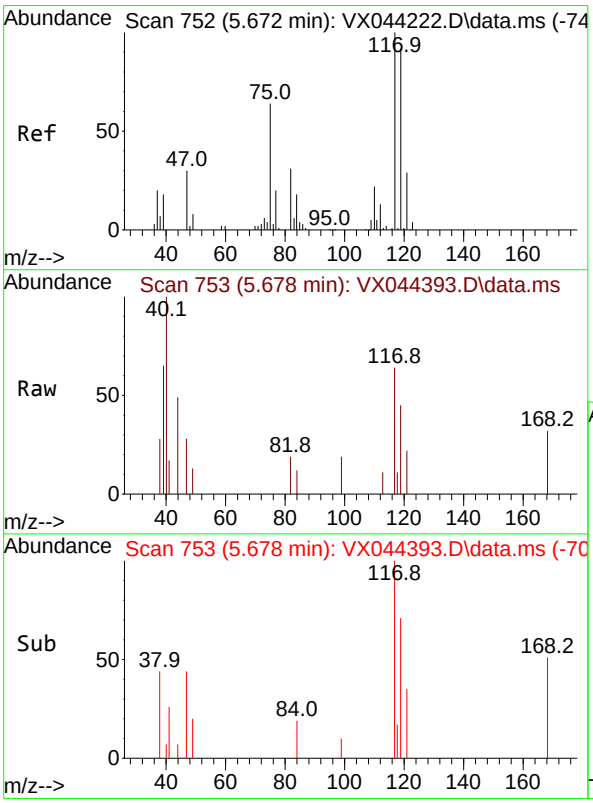
#36
1,1-Dichloropropene
Concen: 5.386 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.146 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 75 Resp: 10514

Ion	Ratio	Lower	Upper
75	100		
110	3.5	17.3	51.7#
77	0.0	25.4	38.0#

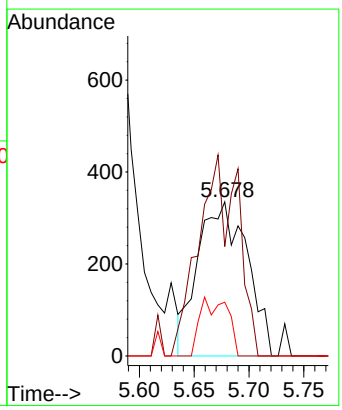


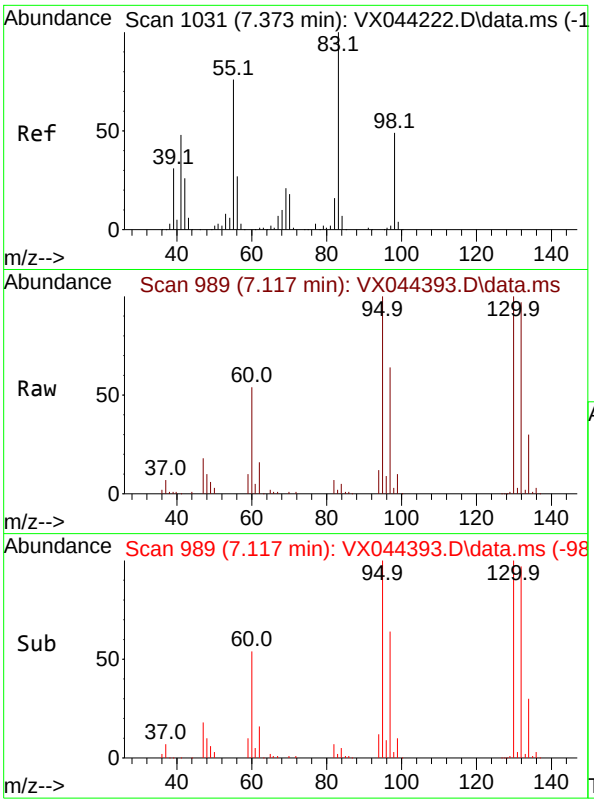


#38
Carbon Tetrachloride
Concen: 0.495 ug/l
RT: 5.678 min Scan# 753
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:117 Resp: 1040

Ion	Ratio	Lower	Upper
117	100		
119	71.0	74.2	111.4#
121	34.9	23.0	34.6#



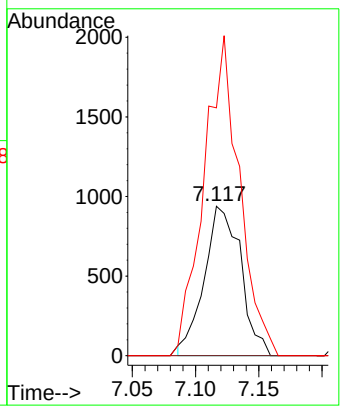


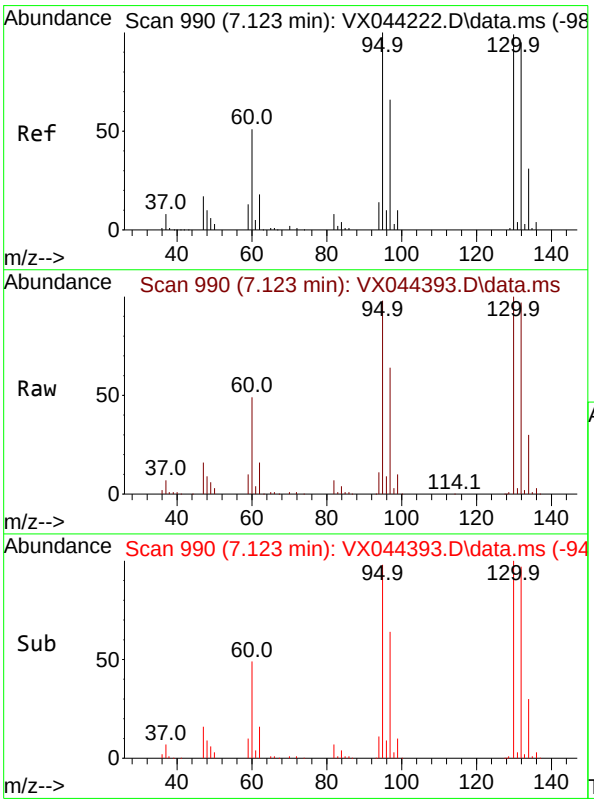
#39
Methylcyclohexane
Concen: 0.807 ug/l
RT: 7.117 min Scan# 9
Delta R.T. -0.256 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 83 Resp: 1883

Ion	Ratio	Lower	Upper
83	100		
55	0.0	60.7	91.1#
98	165.8	38.9	58.3#

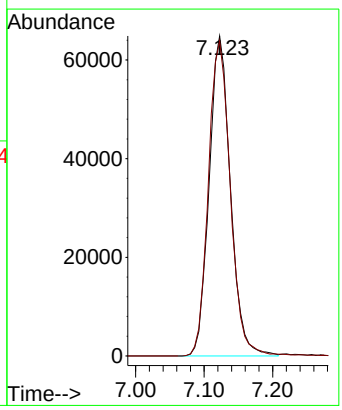


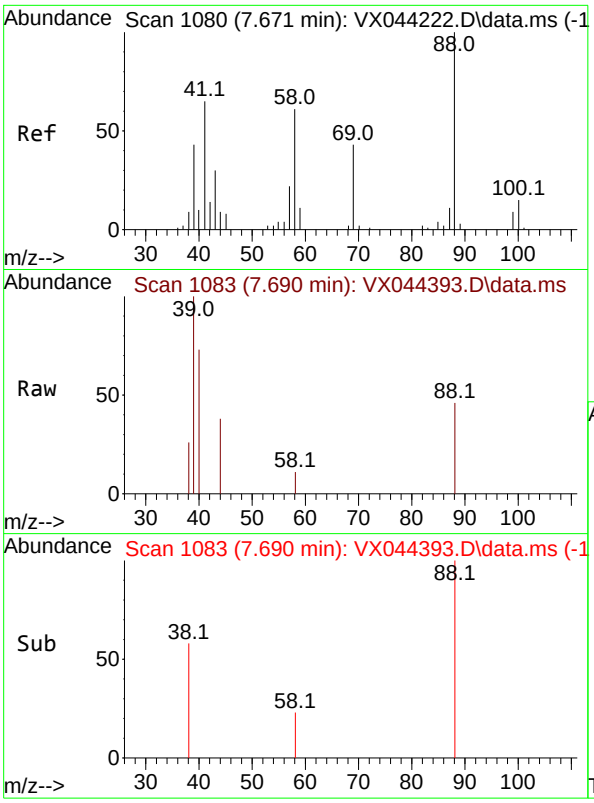


#44
Trichloroethene
Concen: 94.793 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:130 Resp: 140111

Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	201.4



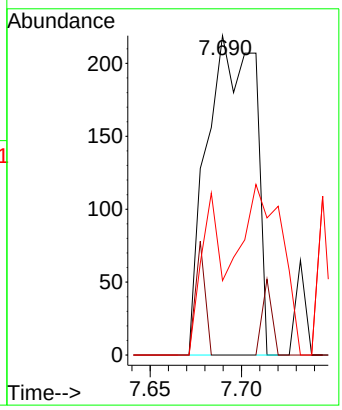


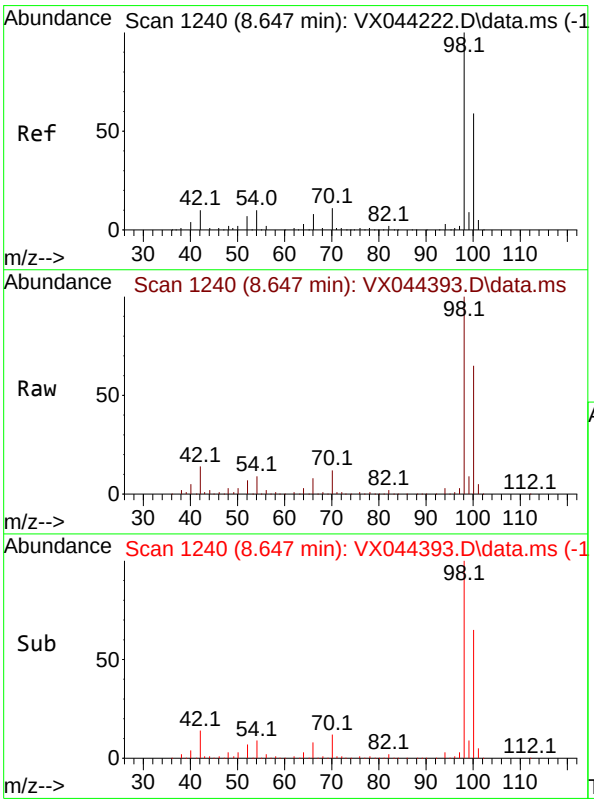
#49
1,4-Dioxane
Concen: 13.210 ug/l
RT: 7.690 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 88 Resp: 401

Ion	Ratio	Lower	Upper
88	100		
43	7.2	27.1	40.7#
58	20.4	41.0	61.4#

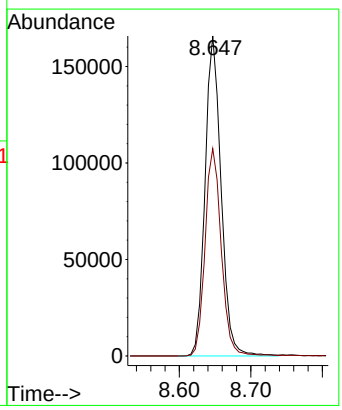


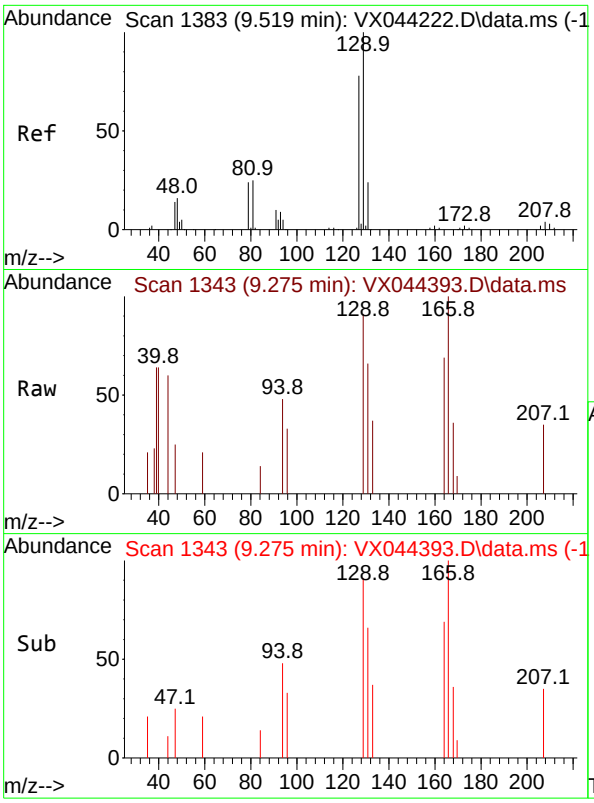


#50
Toluene-d8
Concen: 50.730 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 98 Resp: 258473

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3



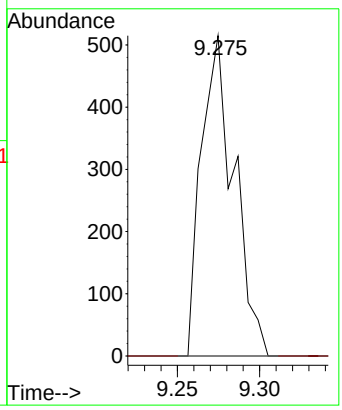


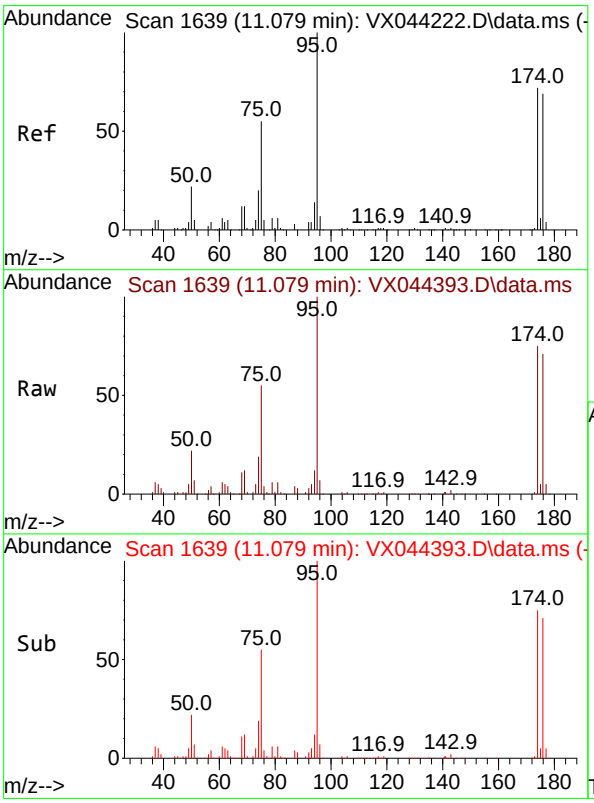
#60
Dibromochloromethane
Concen: 1.698 ug/l
RT: 9.275 min Scan# 1
Delta R.T. -0.244 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion:129 Resp: 716

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.5	115.3#

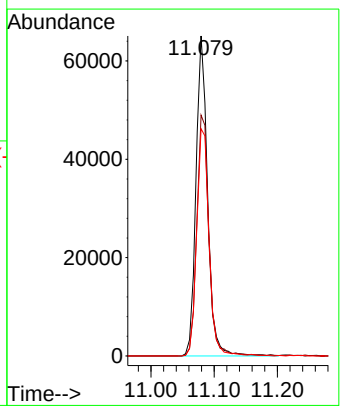


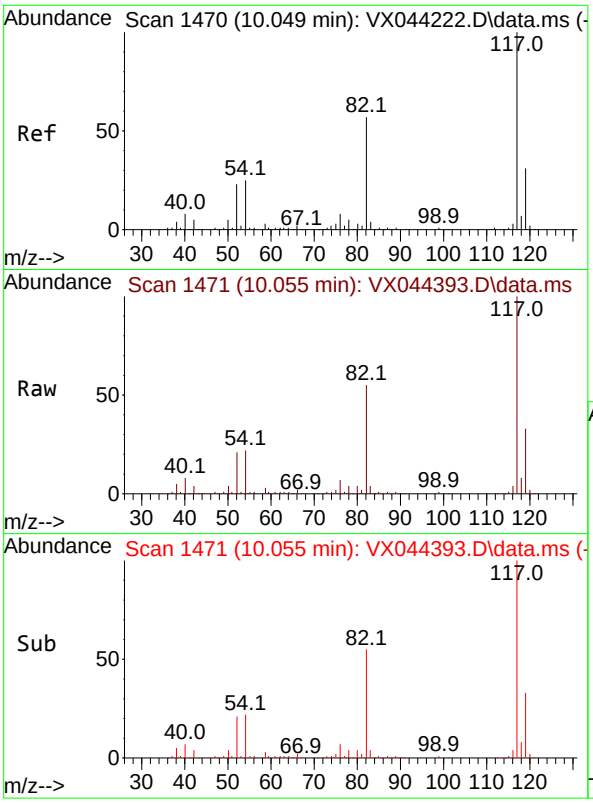


#62
4-Bromofluorobenzene
Concen: 46.808 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 95 Resp: 83335

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	145.8
176	75.5	0.0	137.8



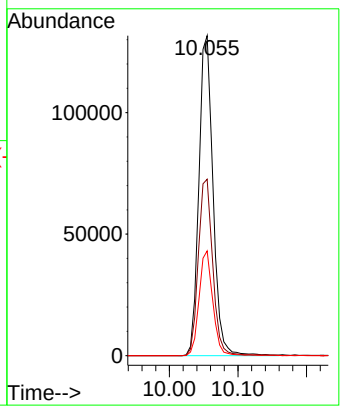


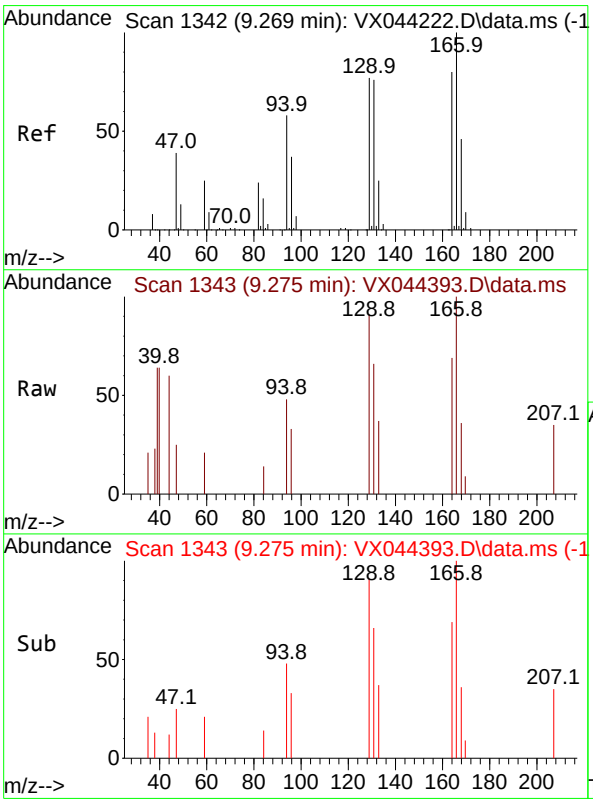
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion:117 Resp: 189518

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.8	68.8
119	32.7	25.0	37.4

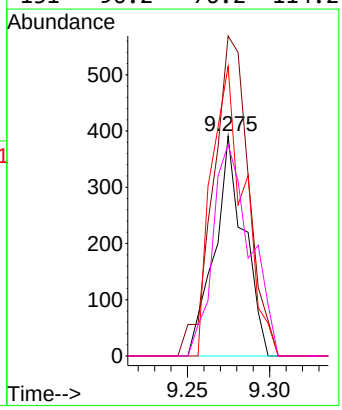


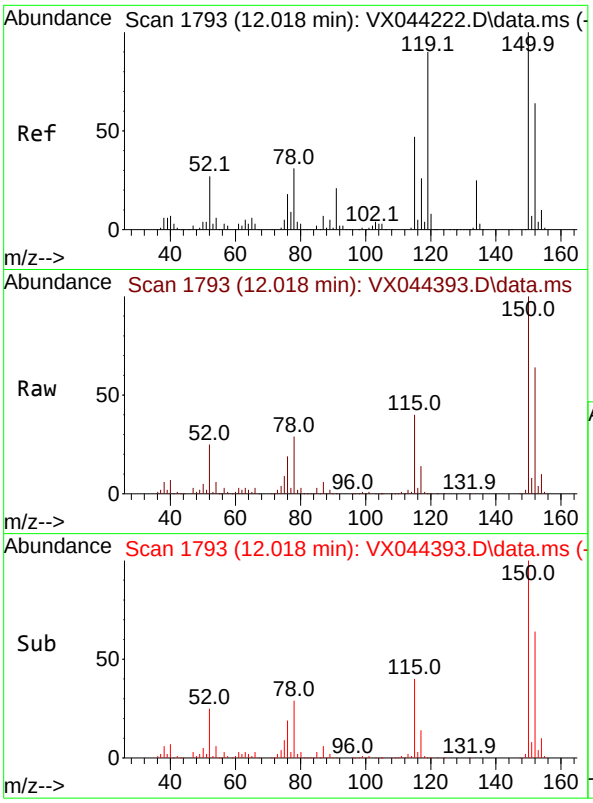


#64
Tetrachloroethene
Concen: 0.389 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion:164 Resp: 489

Ion	Ratio	Lower	Upper
164	100		
166	145.5	100.4	150.6
129	131.7	77.2	115.8#
131	96.2	76.2	114.2



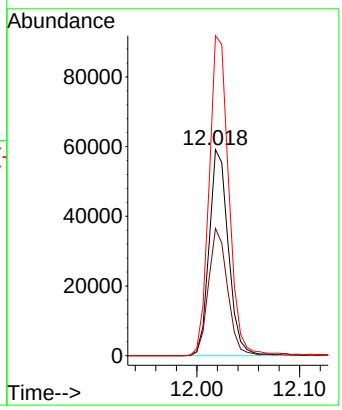


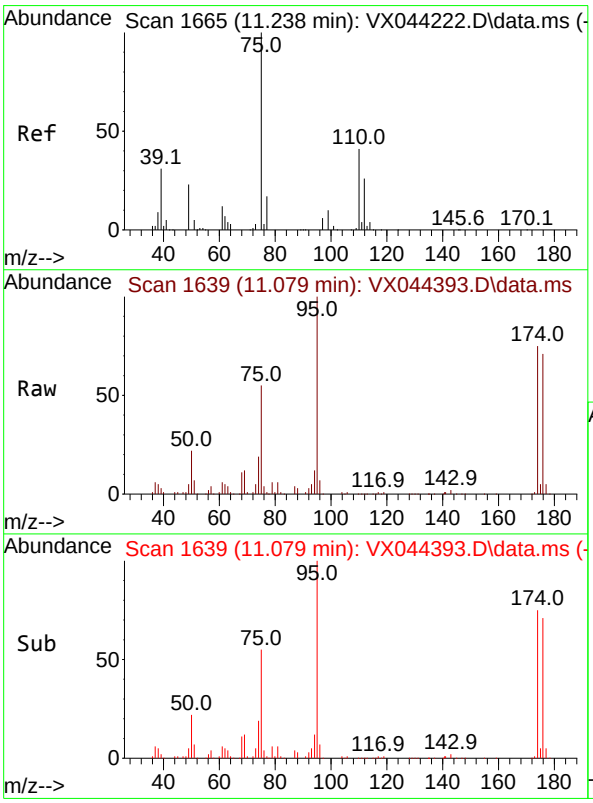
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion:152 Resp: 76670

Ion	Ratio	Lower	Upper
152	100		
115	62.0	44.5	133.3
150	160.7	0.0	353.8

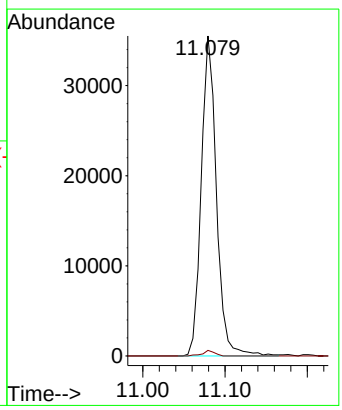


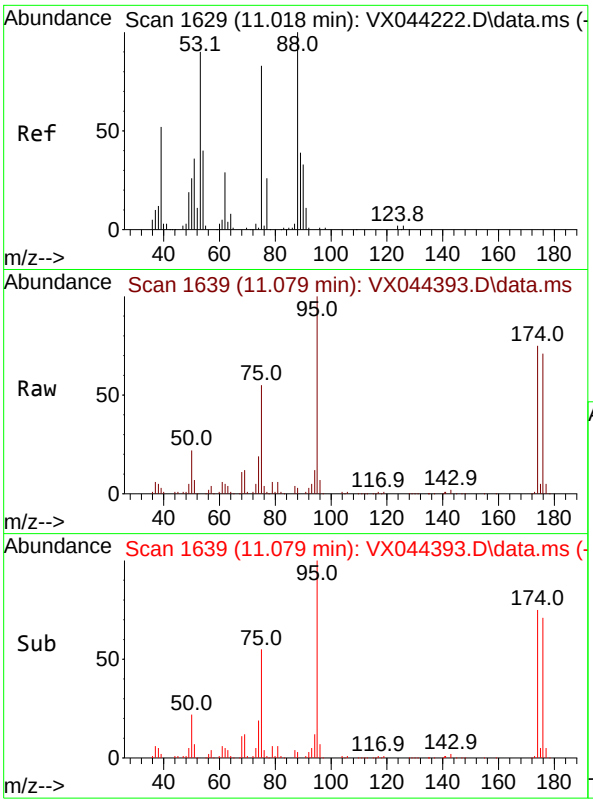


#76
1,2,3-Trichloropropane
Concen: 26.720 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Tgt Ion: 75 Resp: 45740

Ion	Ratio	Lower	Upper
75	100		
77	1.4	20.9	62.7#



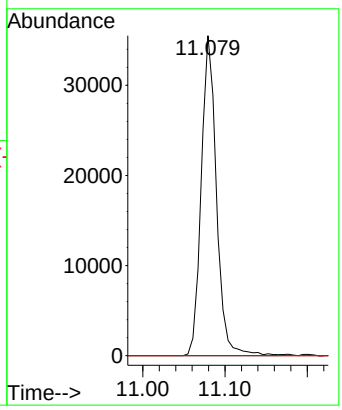


#81
trans-1,4-Dichloro-2-butene
Concen: 73.601 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX044393.D
Acq: 18 Dec 2024 19:05

Instrument :
MSVOA_X
ClientSampleId :
TT189D2-20241213

Tgt Ion: 75 Resp: 45740

Ion	Ratio	Lower	Upper
75	100		
53	0.0	93.6	140.4#
89	0.0	37.3	55.9#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	128806	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	231562	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	198322	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92192	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	102044	45.184	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.360%		
35) Dibromofluoromethane	5.379	113	78617	49.020	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.040%		
50) Toluene-d8	8.647	98	258060	47.694	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.380%		
62) 4-Bromofluorobenzene	11.079	95	87444	46.251	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.500%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	101127	50.775	ug/l	97
3) Chloromethane	1.295	50	103746	54.472	ug/l	98
4) Vinyl Chloride	1.374	62	103445	52.134	ug/l	98
5) Bromomethane	1.593	94	67793	48.160	ug/l	98
6) Chloroethane	1.660	64	71772	58.090	ug/l	99
7) Trichlorofluoromethane	1.868	101	159151	40.971	ug/l	99
8) Diethyl Ether	2.136	74	61981	46.745	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.313	101	74293	47.265	ug/l	97
10) Methyl Iodide	2.441	142	110675	53.424	ug/l	98
11) Tert butyl alcohol	2.995	59	61810	194.195	ug/l	98
12) 1,1-Dichloroethene	2.307	96	74624	51.687	ug/l	97
13) Acrolein	2.233	56	131600	285.631	ug/l	99
14) Allyl chloride	2.654	41	122245	50.834	ug/l	99
15) Acrylonitrile	3.069	53	227490	258.021	ug/l	99
16) Acetone	2.386	43	197278	214.267	ug/l	95
17) Carbon Disulfide	2.502	76	136022	49.563	ug/l	99
18) Methyl Acetate	2.709	43	117496	49.494	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	278770	49.479	ug/l	98
20) Methylene Chloride	2.782	84	89530	51.772	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	77722	50.653	ug/l	97
22) Diisopropyl ether	3.764	45	268559	49.594	ug/l	97
23) Vinyl Acetate	3.721	43	1185904	269.370	ug/l	99
24) 1,1-Dichloroethane	3.605	63	154722	51.258	ug/l	98
25) 2-Butanone	4.562	43	319886	244.389	ug/l	99
26) 2,2-Dichloropropane	4.465	77	103750	42.309	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	98262	50.424	ug/l	95
28) Bromochloromethane	4.898	49	72263	48.821	ug/l	98
29) Tetrahydrofuran	5.007	42	206531	245.825	ug/l	99
30) Chloroform	5.087	83	165359	48.758	ug/l	98
31) Cyclohexane	5.458	56	112724	46.246	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	136491	48.484	ug/l	100
36) 1,1-Dichloropropene	5.684	75	98106	47.323	ug/l	98
37) Ethyl Acetate	4.715	43	129759	50.635	ug/l	100
38) Carbon Tetrachloride	5.672	117	107841	48.318	ug/l	99
39) Methylcyclohexane	7.373	83	122156	49.289	ug/l	97
40) Benzene	6.032	78	323543	51.403	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.928	41	67557	49.647 ug/l	98
42) 1,2-Dichloroethane	6.086	62	128355	49.504 ug/l	96
43) Isopropyl Acetate	6.342	43	203040	50.693 ug/l	99
44) Trichloroethene	7.123	130	80410	51.229 ug/l	96
45) 1,2-Dichloropropane	7.428	63	80917	50.319 ug/l	99
46) Dibromomethane	7.580	93	64847	51.979 ug/l	95
47) Bromodichloromethane	7.818	83	114945	53.349 ug/l	99
48) Methyl methacrylate	7.696	41	95430	49.082 ug/l	97
49) 1,4-Dioxane	7.665	88	27544	854.459 ug/l #	90
51) 4-Methyl-2-Pentanone	8.574	43	646548	251.054 ug/l	98
52) Toluene	8.714	92	192849	48.790 ug/l	98
53) t-1,3-Dichloropropene	8.976	75	108831	47.246 ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	121772	51.907 ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	83289	53.041 ug/l	96
56) Ethyl methacrylate	9.116	69	128375	51.786 ug/l	97
57) 1,3-Dichloropropane	9.305	76	139034	50.869 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	316405	253.061 ug/l	100
59) 2-Hexanone	9.433	43	474334	254.459 ug/l	99
60) Dibromochloromethane	9.519	129	80110	48.292 ug/l	97
61) 1,2-Dibromoethane	9.610	107	83651	52.335 ug/l	98
64) Tetrachloroethene	9.269	164	65080	49.442 ug/l	99
65) Chlorobenzene	10.080	112	212528	50.011 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	72780	53.289 ug/l	98
67) Ethyl Benzene	10.189	91	358882	48.877 ug/l	97
68) m/p-Xylenes	10.299	106	272625	101.186 ug/l	96
69) o-Xylene	10.640	106	137600	50.475 ug/l	94
70) Styrene	10.653	104	227233	51.996 ug/l	96
71) Bromoform	10.799	173	47848	50.123 ug/l #	99
73) Isopropylbenzene	10.964	105	341494	48.386 ug/l	100
74) N-amyl acetate	10.842	43	167806	51.447 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.214	83	125333	51.128 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	128225	62.293 ug/l	86
77) Bromobenzene	11.195	156	86623	50.614 ug/l	97
78) n-propylbenzene	11.305	91	382775	49.070 ug/l	98
79) 2-Chlorotoluene	11.366	91	238254	47.227 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	283243	48.394 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	31620	44.685 ug/l	98
82) 4-Chlorotoluene	11.451	91	264905	47.419 ug/l	98
83) tert-Butylbenzene	11.713	119	282938	48.916 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	287742	50.060 ug/l	99
85) sec-Butylbenzene	11.890	105	339068	48.287 ug/l	98
86) p-Isopropyltoluene	12.006	119	284281	48.641 ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	148170	49.564 ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	148965	48.473 ug/l	98
89) n-Butylbenzene	12.329	91	239841	48.803 ug/l	99
90) Hexachloroethane	12.536	117	42721	50.075 ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	154736	49.849 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	23089	48.520 ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	85945	50.503 ug/l	99
94) Hexachlorobutadiene	13.725	225	34008	49.682 ug/l	98
95) Naphthalene	13.774	128	324880	48.907 ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	90839	50.326 ug/l	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

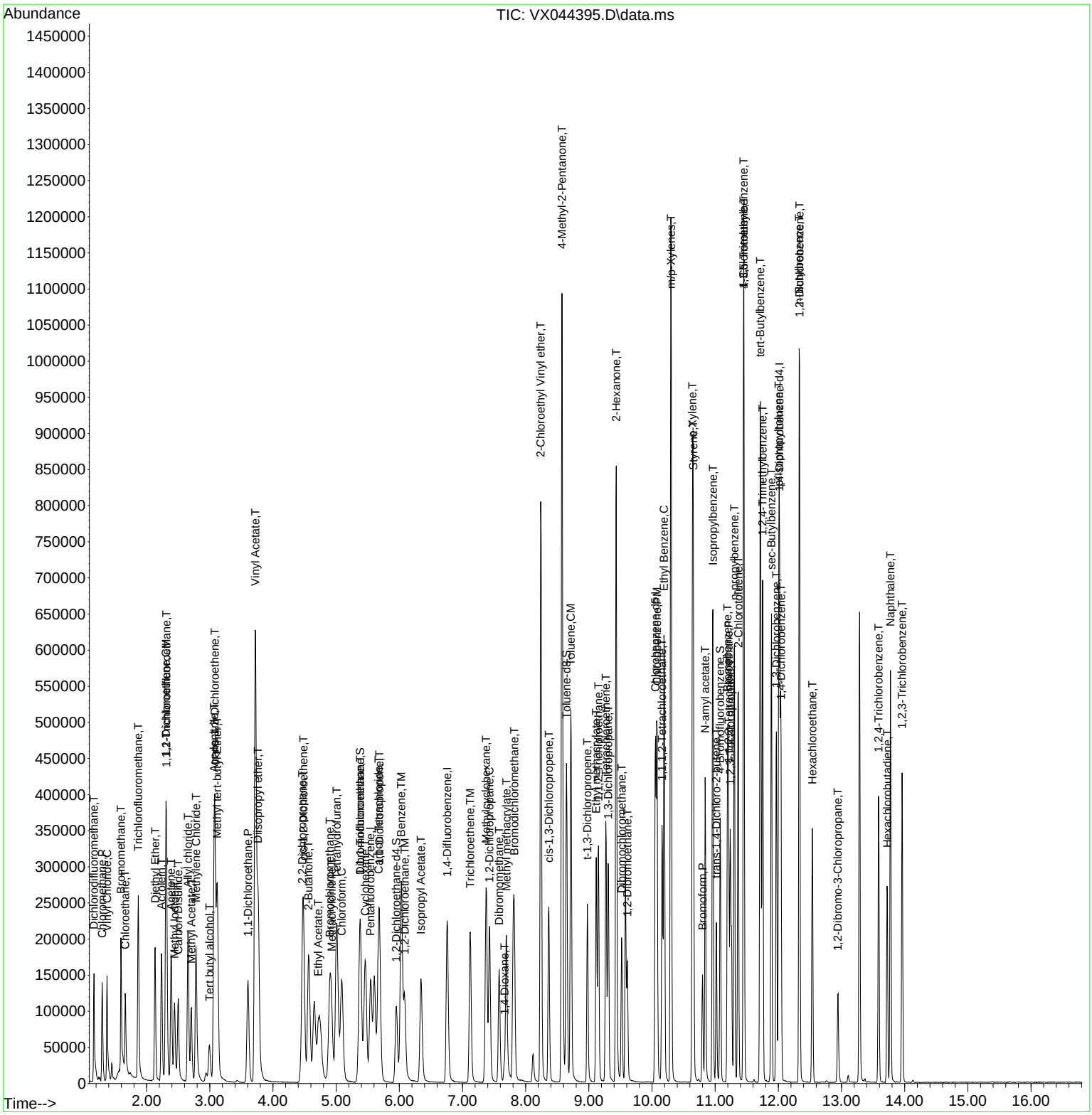
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

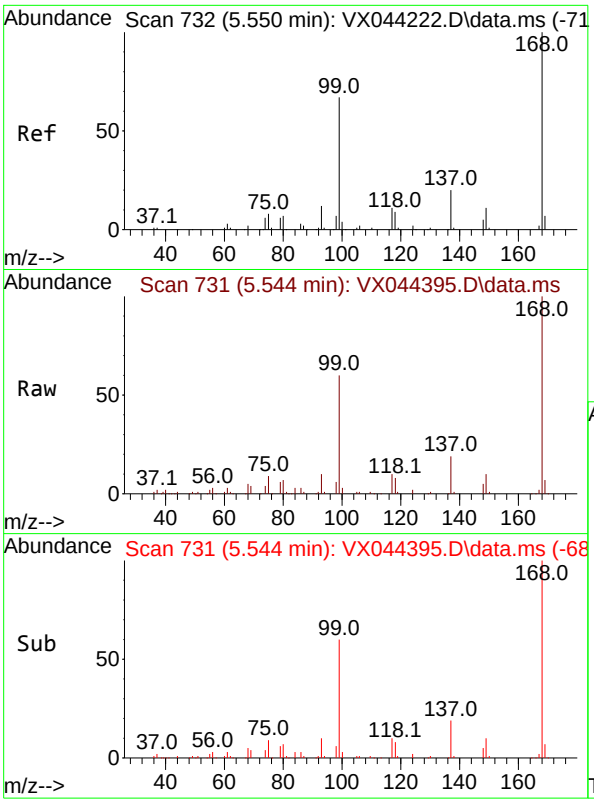
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121824\
Data File : VX044395.D
Acq On : 18 Dec 2024 19:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 19 00:53:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



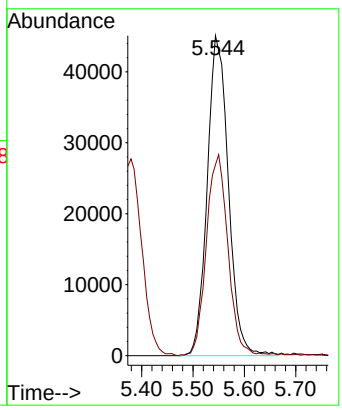


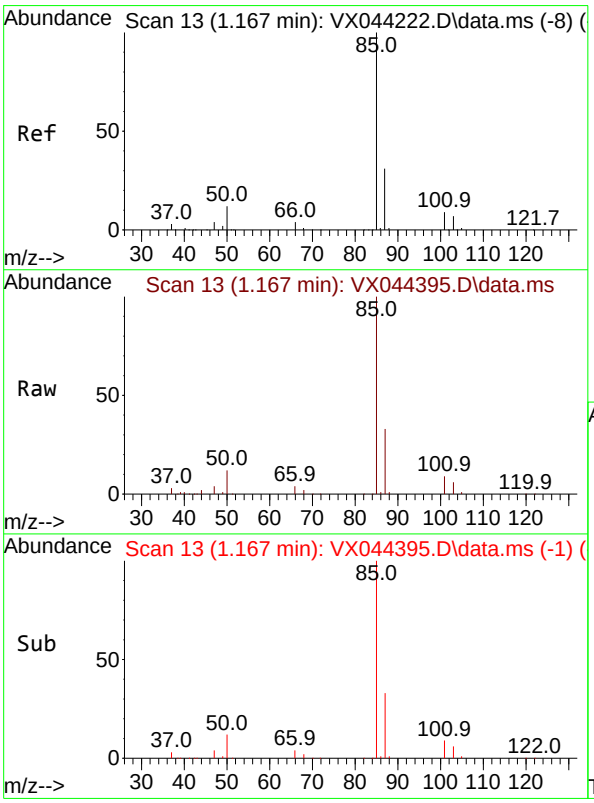
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 128806

Ion	Ratio	Lower	Upper
168	100		
99	59.7	53.4	80.0

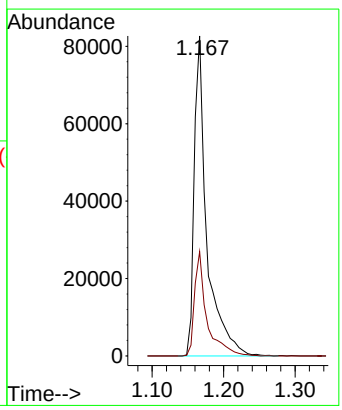


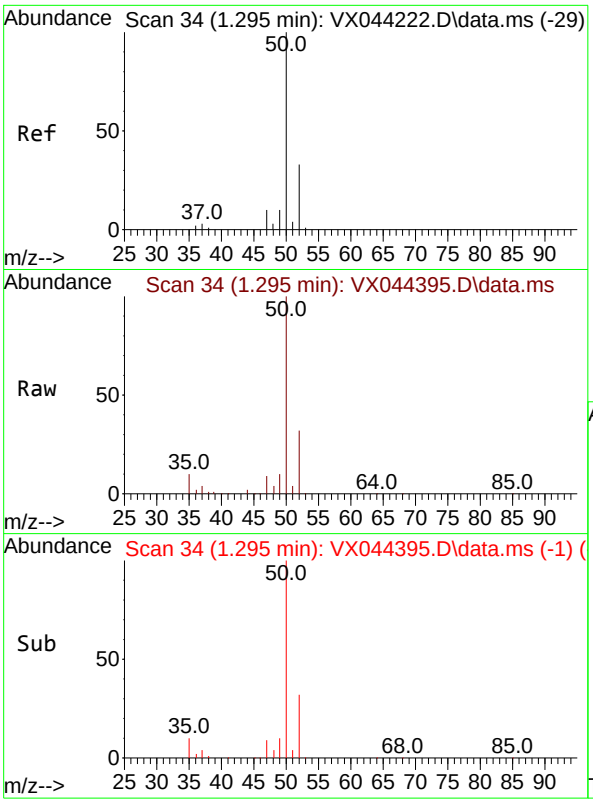


#2
Dichlorodifluoromethane
Concen: 50.775 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 85 Resp: 101127

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.4	46.4



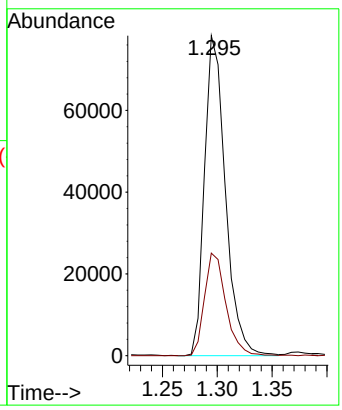


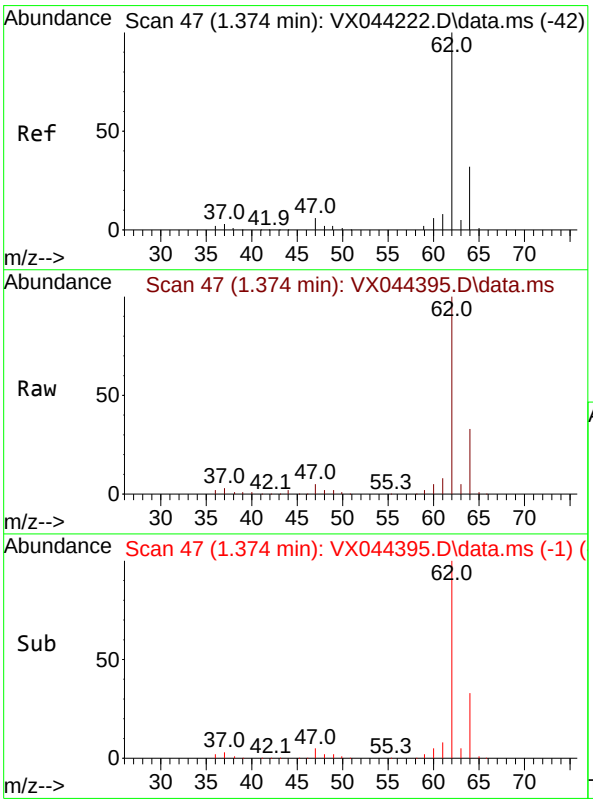
#3
Chloromethane
Concen: 54.472 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 103746

Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.5	39.7

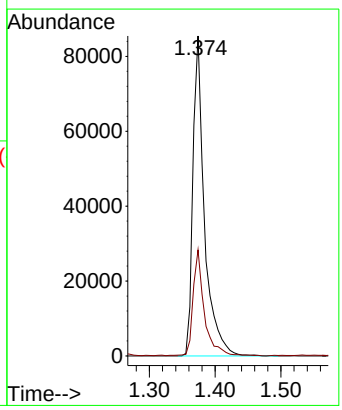


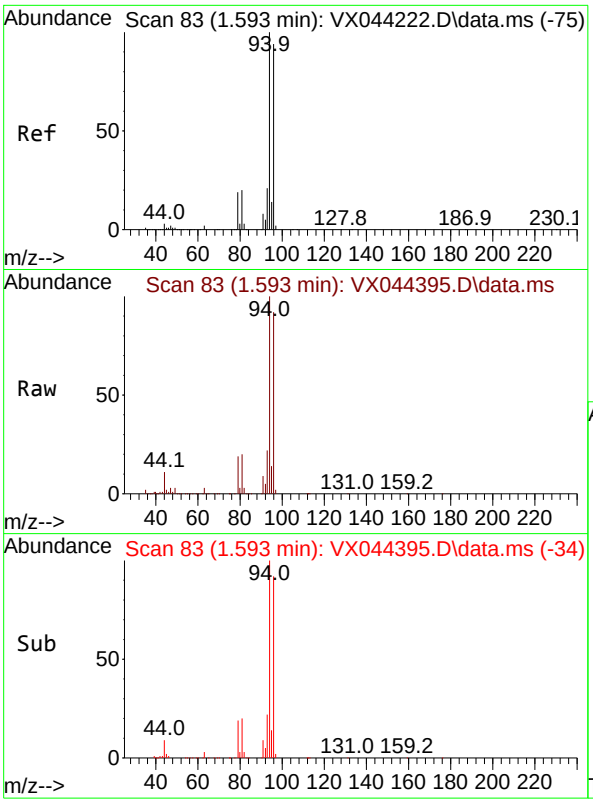


#4
Vinyl Chloride
Concen: 52.134 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 62 Resp: 103445

Ion	Ratio	Lower	Upper
62	100		
64	33.0	25.7	38.5



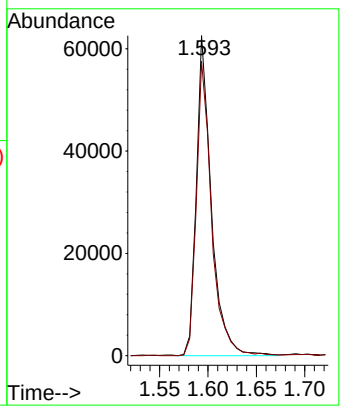


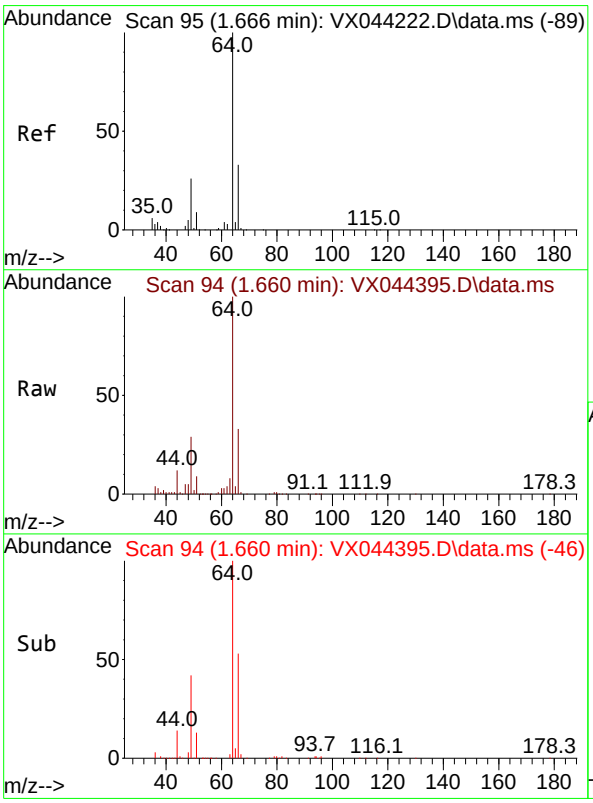
#5
Bromomethane
Concen: 48.160 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 67793

Ion	Ratio	Lower	Upper
94	100		
96	92.0	74.9	112.3

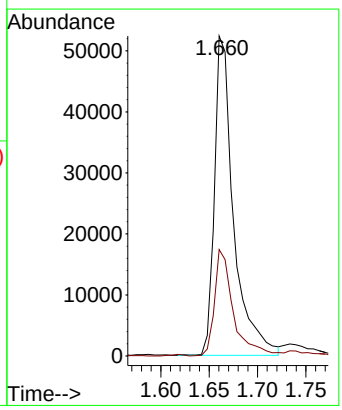


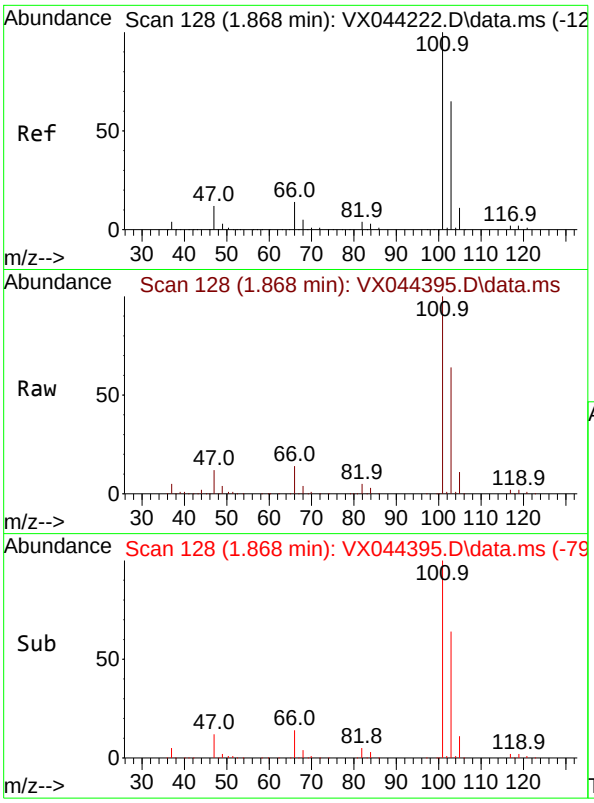


#6
Chloroethane
Concen: 58.090 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 64 Resp: 71772

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.6	39.8



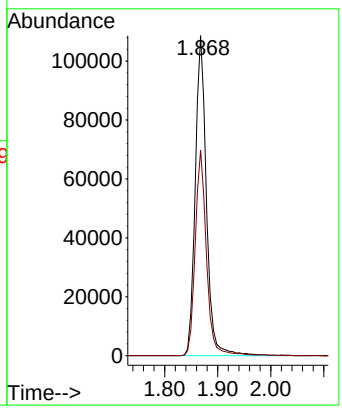


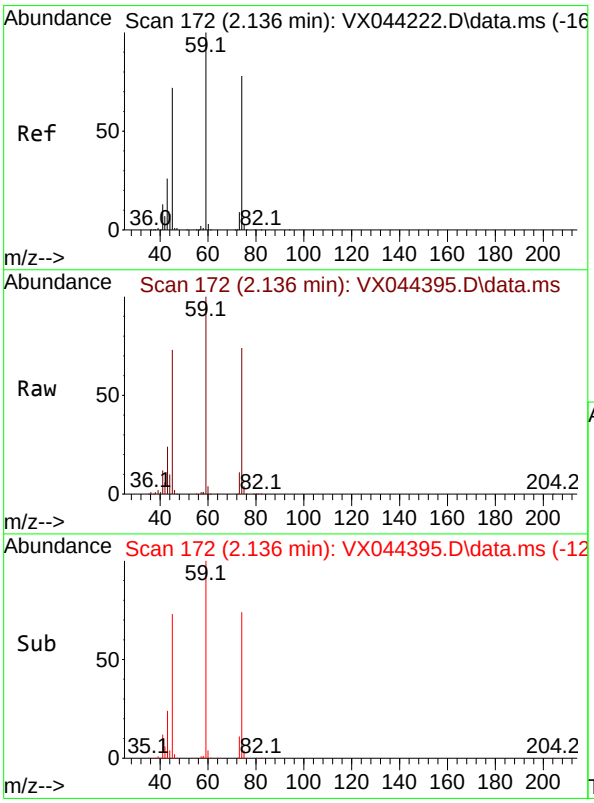
#7
Trichlorofluoromethane
Concen: 40.971 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 159151

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.8	77.8

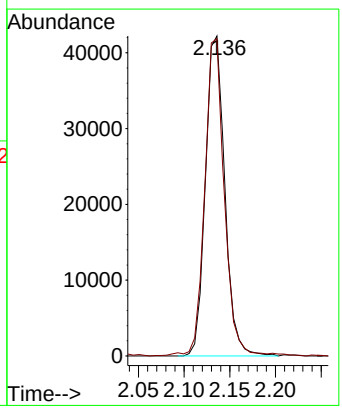


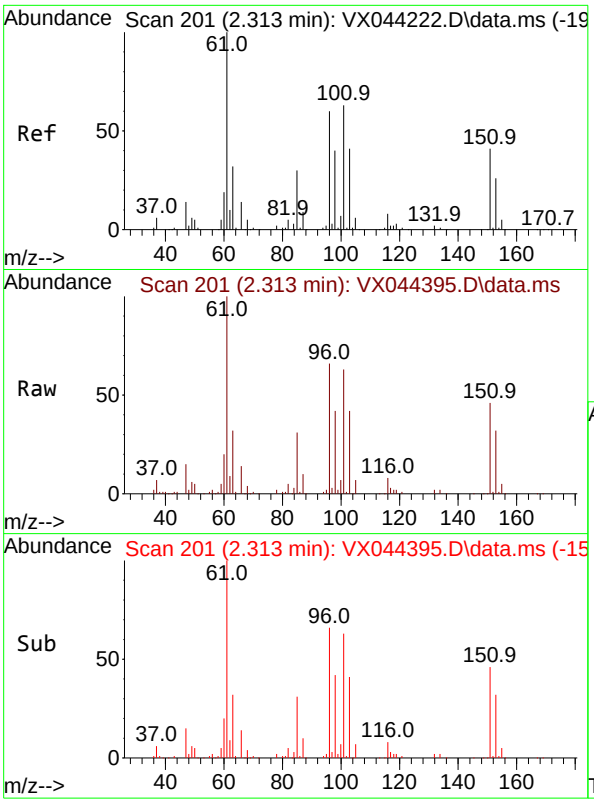


#8
Diethyl Ether
Concen: 46.745 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 74 Resp: 61981

Ion	Ratio	Lower	Upper
74	100		
45	100.6	48.4	145.0



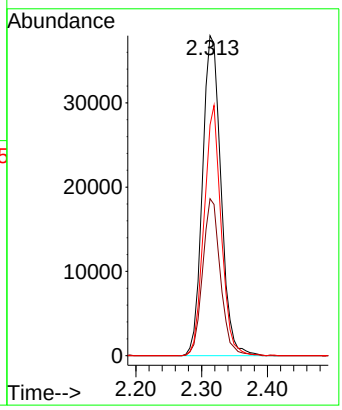


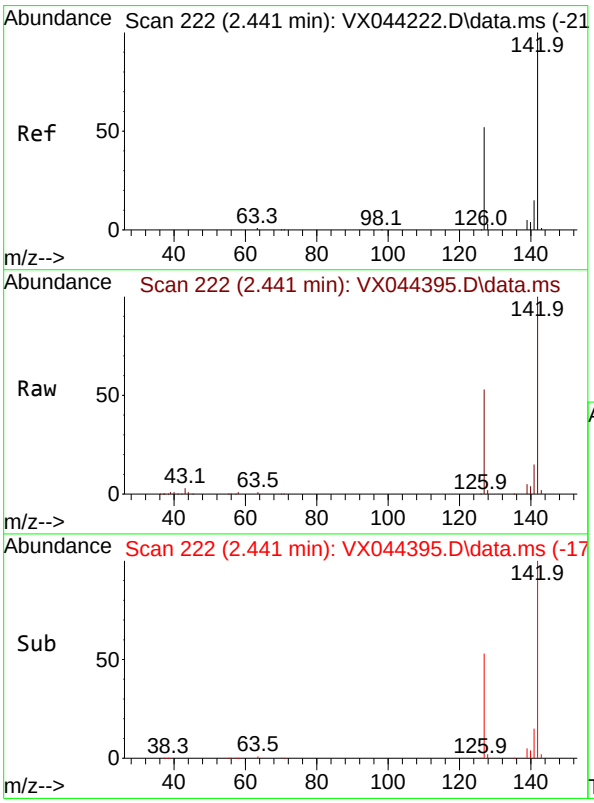
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.265 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 74293

Ion	Ratio	Lower	Upper
101	100		
85	47.0	38.5	57.7
151	72.5	55.8	83.6

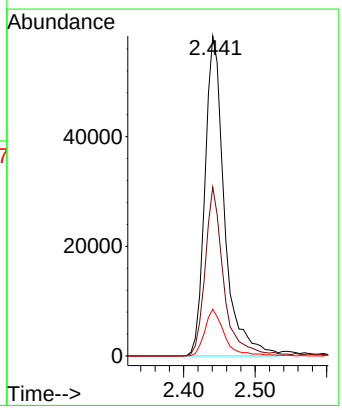


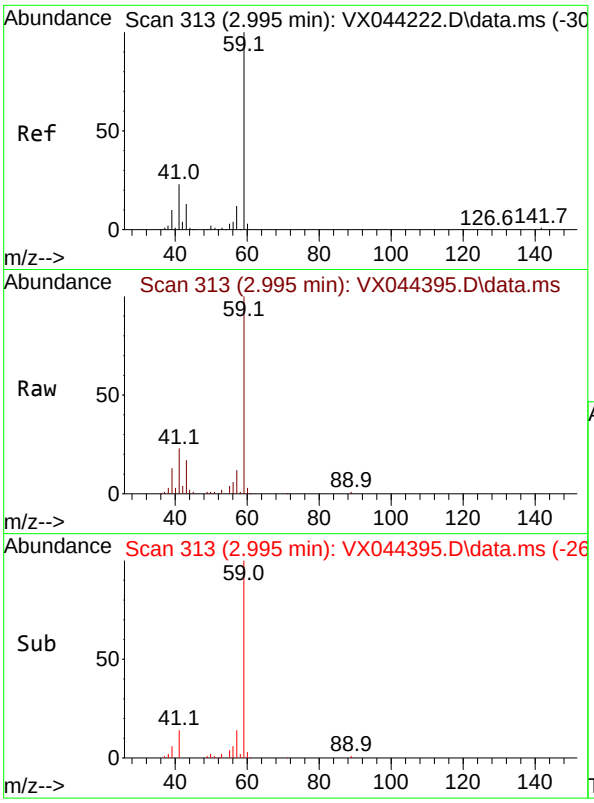


#10
Methyl Iodide
Concen: 53.424 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:142 Resp: 110675

Ion	Ratio	Lower	Upper
142	100		
127	50.4	41.8	62.8
141	14.8	11.5	17.3



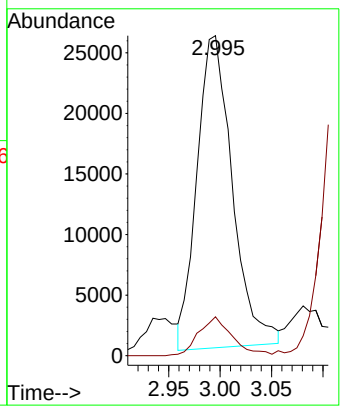


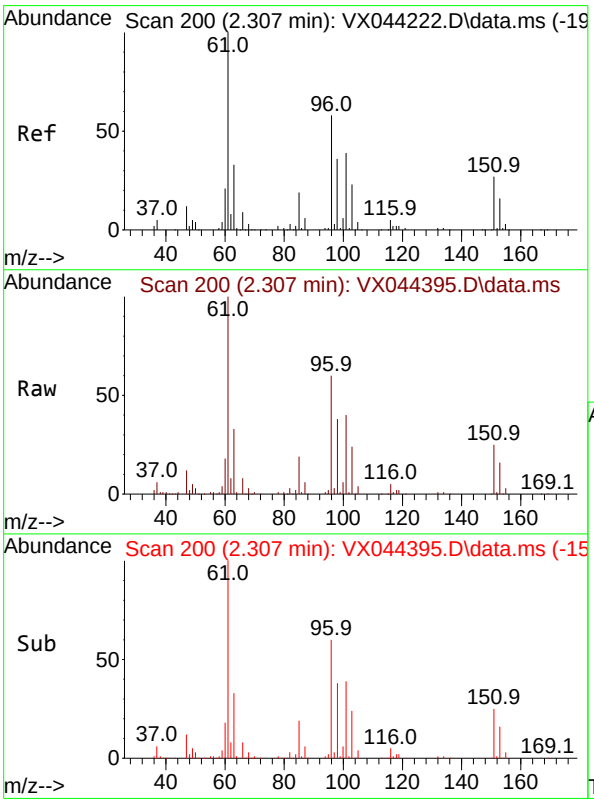
#11
Tert butyl alcohol
Concen: 194.195 ug/l
RT: 2.995 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 61810

Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.8	13.2

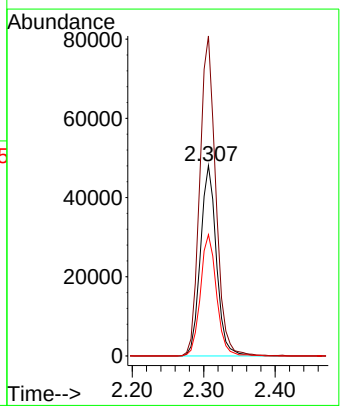


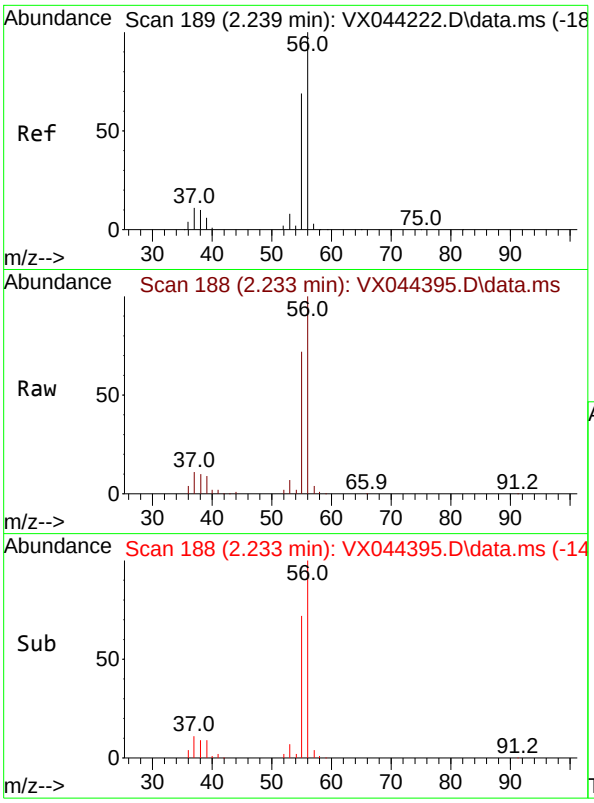


#12
1,1-Dichloroethene
Concen: 51.687 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 96 Resp: 74624

Ion	Ratio	Lower	Upper
96	100		
61	168.0	138.0	207.0
98	63.7	50.0	75.0



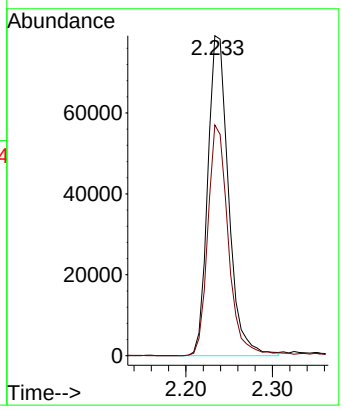


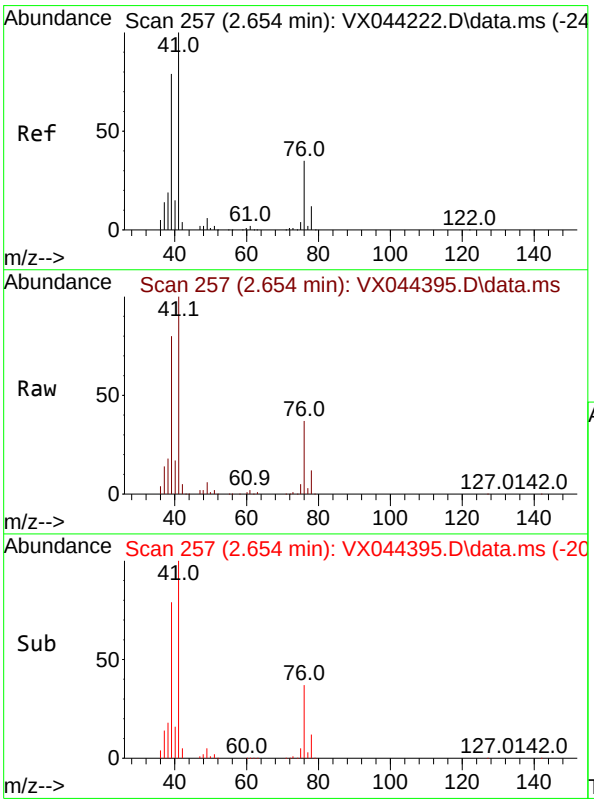
#13
Acrolein
Concen: 285.631 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 131600

Ion	Ratio	Lower	Upper
56	100		
55	71.3	56.6	84.8

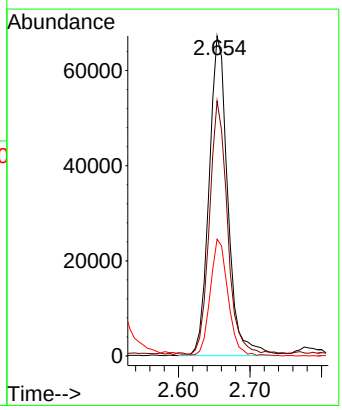


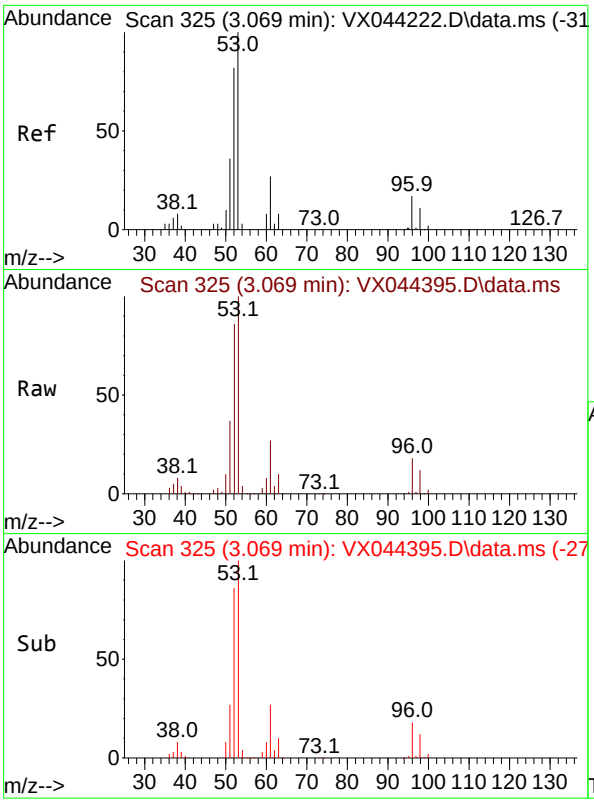


#14
Allyl chloride
Concen: 50.834 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 41 Resp: 122245

Ion	Ratio	Lower	Upper
41	100		
39	76.1	61.9	92.9
76	34.9	27.4	41.2



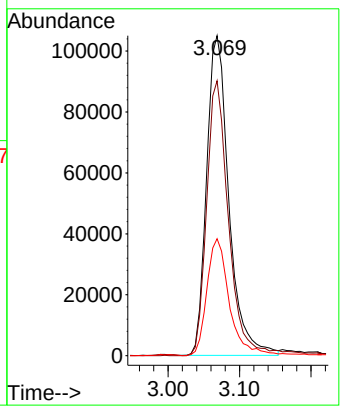


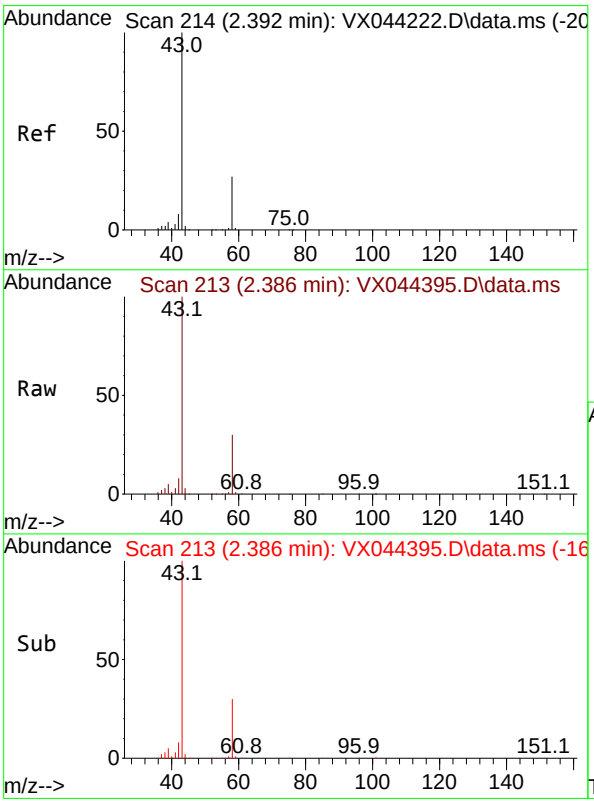
#15
Acrylonitrile
Concen: 258.021 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 227490

Ion	Ratio	Lower	Upper
53	100		
52	86.0	67.4	101.0
51	37.7	30.3	45.5

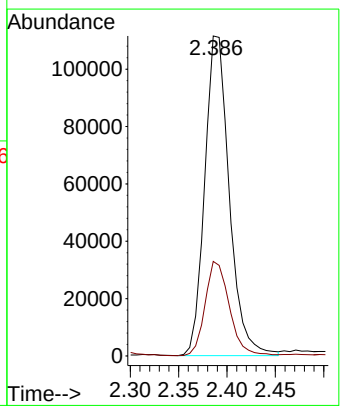


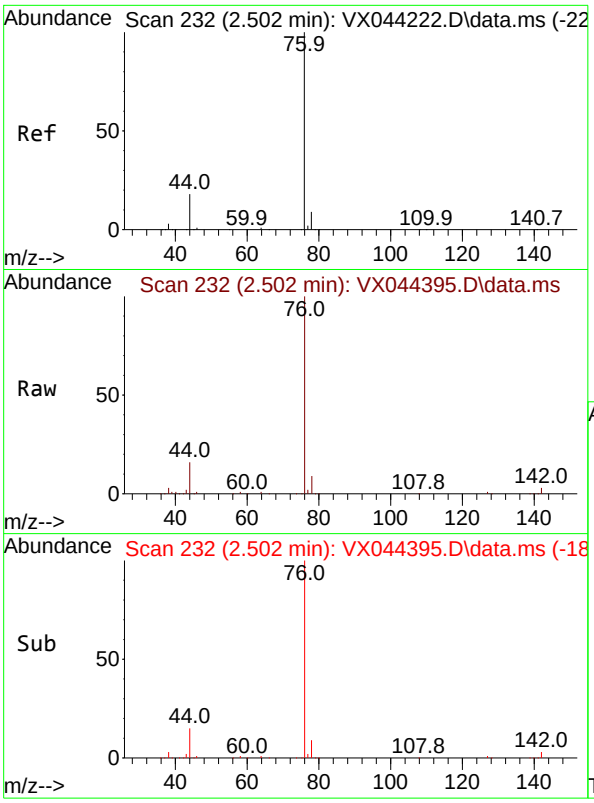


#16
Acetone
Concen: 214.267 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 197278

Ion	Ratio	Lower	Upper
43	100		
58	29.5	21.6	32.4



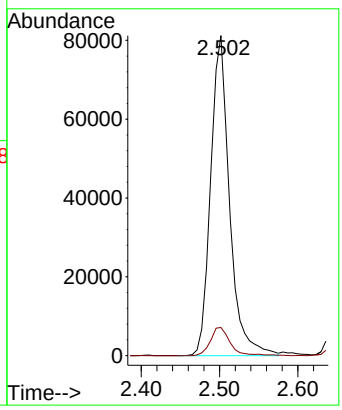


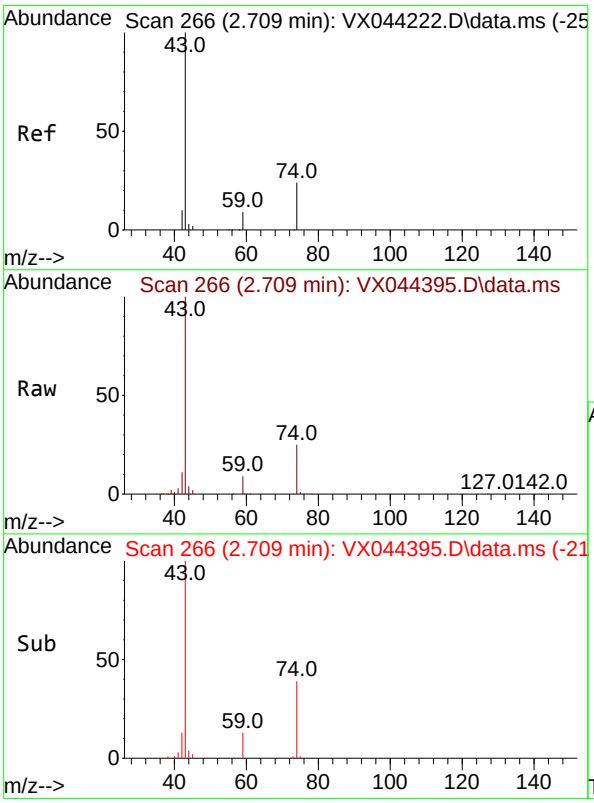
#17
Carbon Disulfide
Concen: 49.563 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 136022

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0

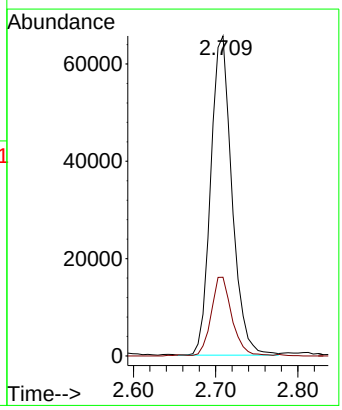


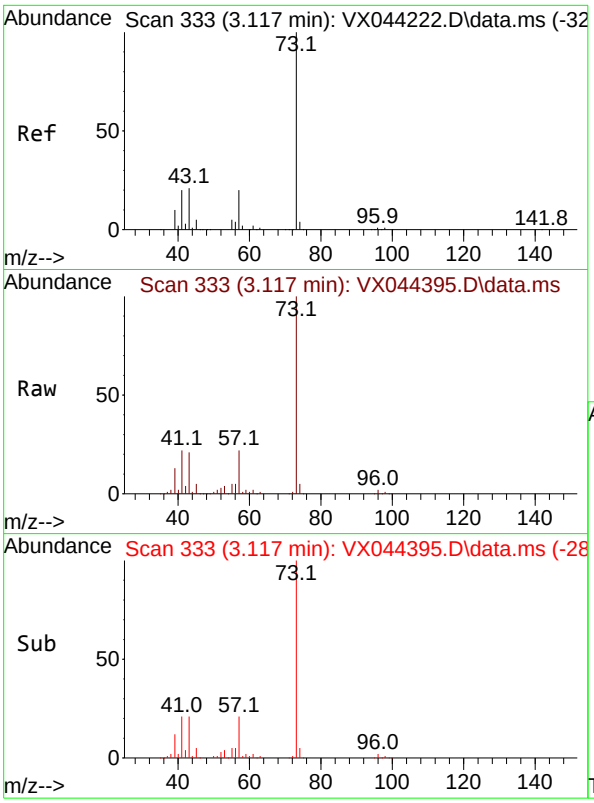


#18
Methyl Acetate
Concen: 49.494 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 117496

Ion	Ratio	Lower	Upper
43	100		
74	23.4	17.7	26.5



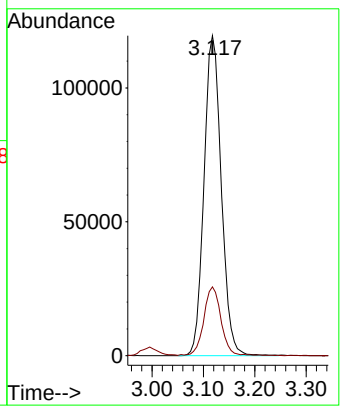


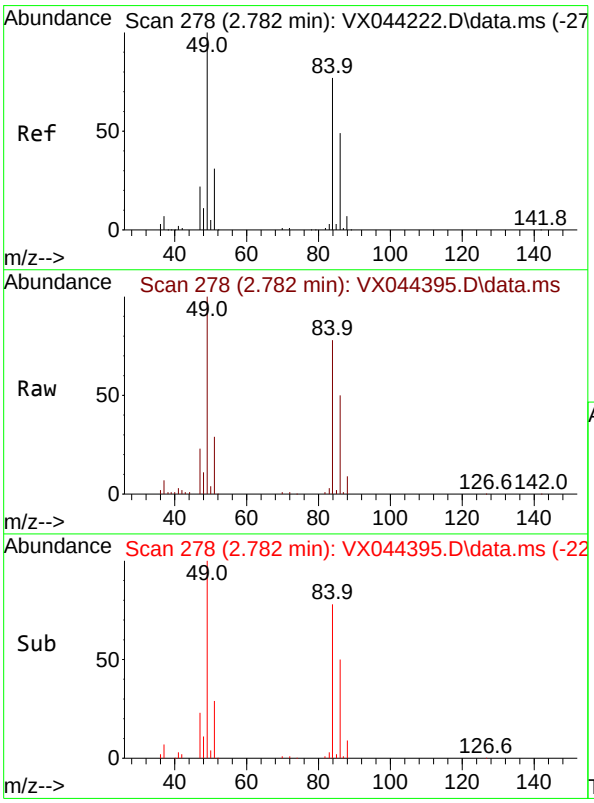
#19
Methyl tert-butyl Ether
Concen: 49.479 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 278770

Ion	Ratio	Lower	Upper
73	100		
57	21.4	16.2	24.4

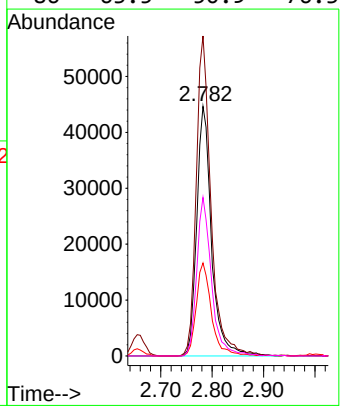


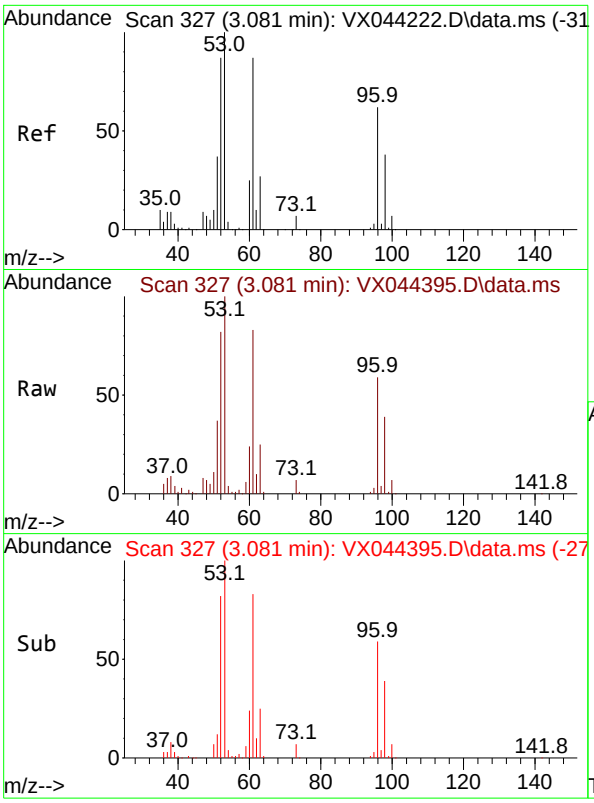


#20
Methylene Chloride
Concen: 51.772 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 84 Resp: 89530

Ion	Ratio	Lower	Upper
84	100		
49	128.2	104.2	156.4
51	37.2	32.2	48.4
86	63.5	50.9	76.3



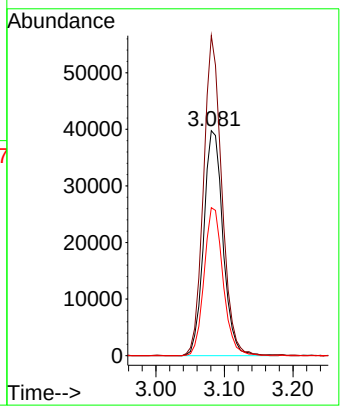


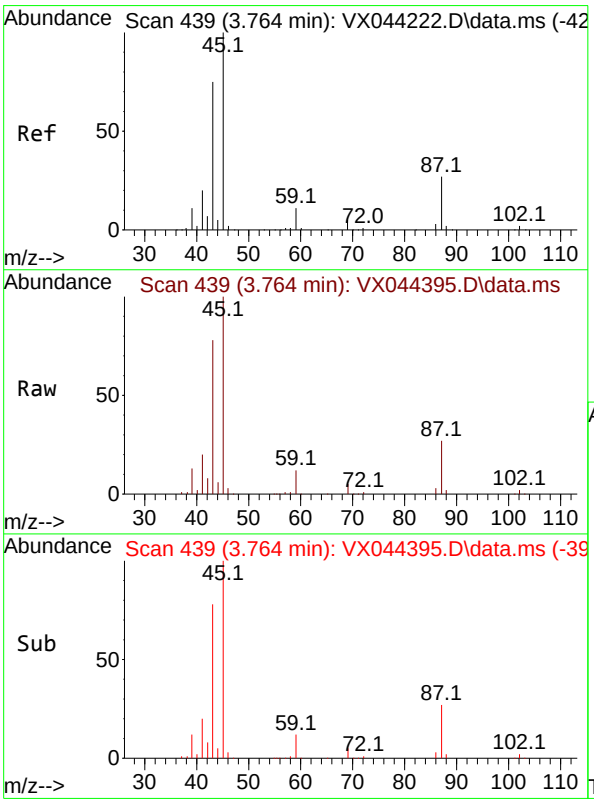
#21
trans-1,2-Dichloroethene
Concen: 50.653 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 77722

Ion	Ratio	Lower	Upper
96	100		
61	142.2	112.0	168.0
98	65.8	48.8	73.2

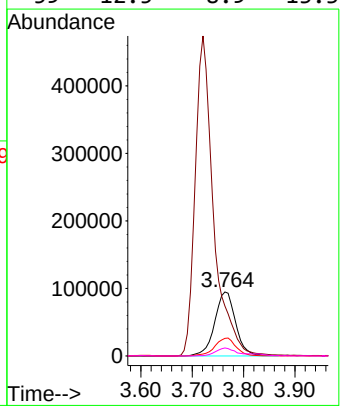


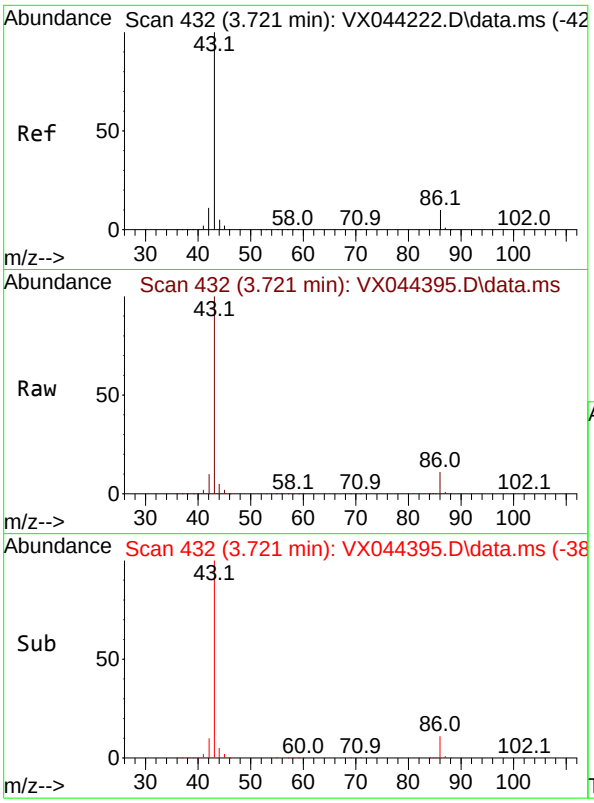


#22
Diisopropyl ether
Concen: 49.594 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 45 Resp: 268559

Ion	Ratio	Lower	Upper
45	100		
43	77.8	60.2	90.2
87	27.4	21.2	31.8
59	12.5	8.9	13.3



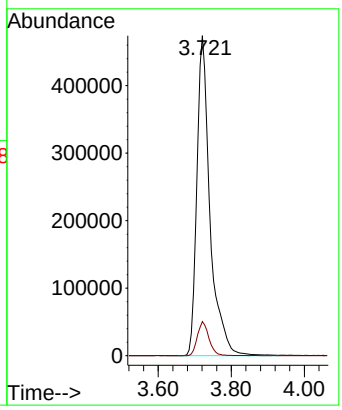


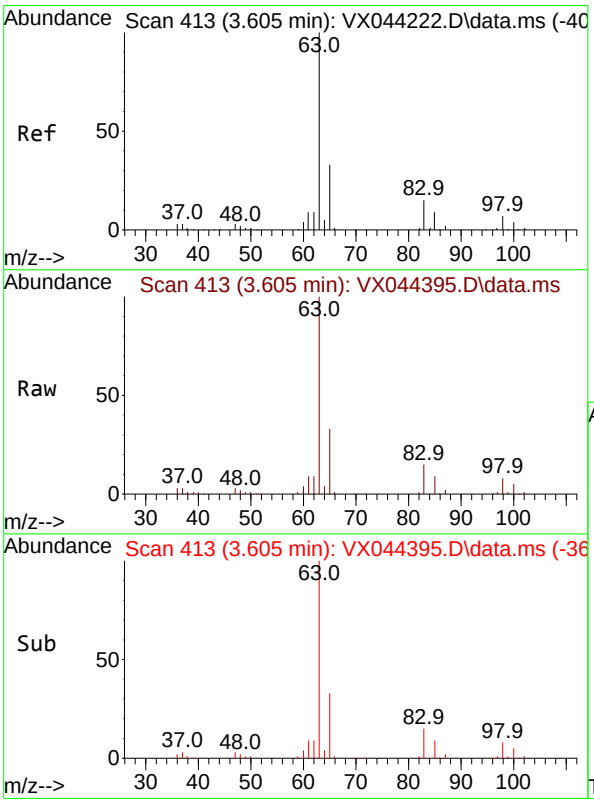
#23
Vinyl Acetate
Concen: 269.370 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1185904

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.2	12.2

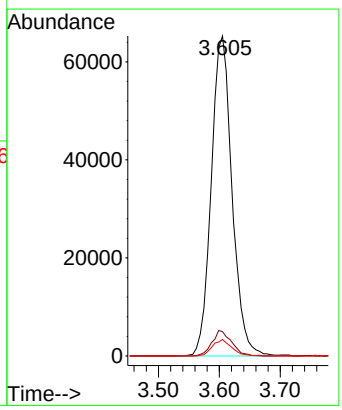


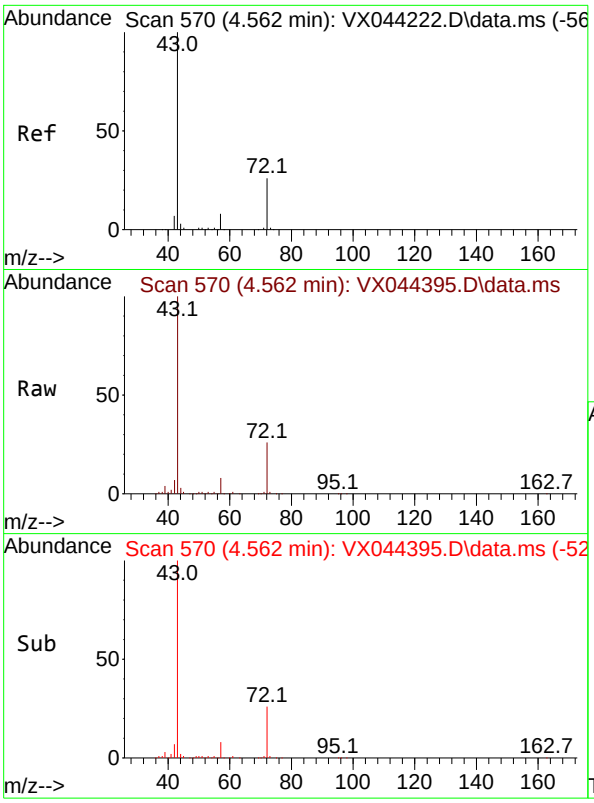


#24
1,1-Dichloroethane
Concen: 51.258 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 63 Resp: 154722

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.6	10.8
100	5.2	2.1	6.3



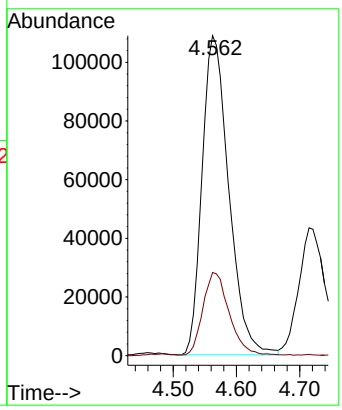


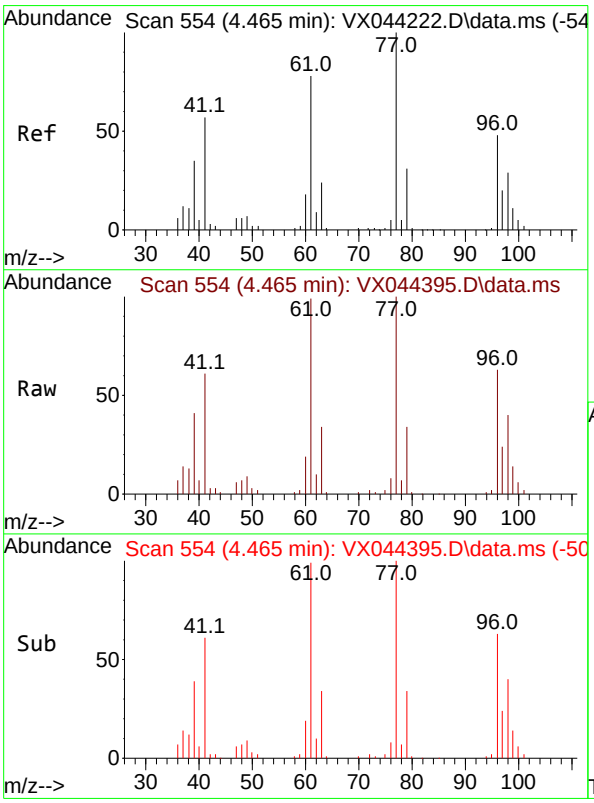
#25
2-Butanone
Concen: 244.389 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 319886

Ion	Ratio	Lower	Upper
43	100		
72	25.8	20.2	30.4

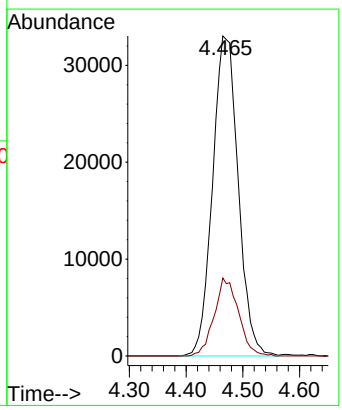


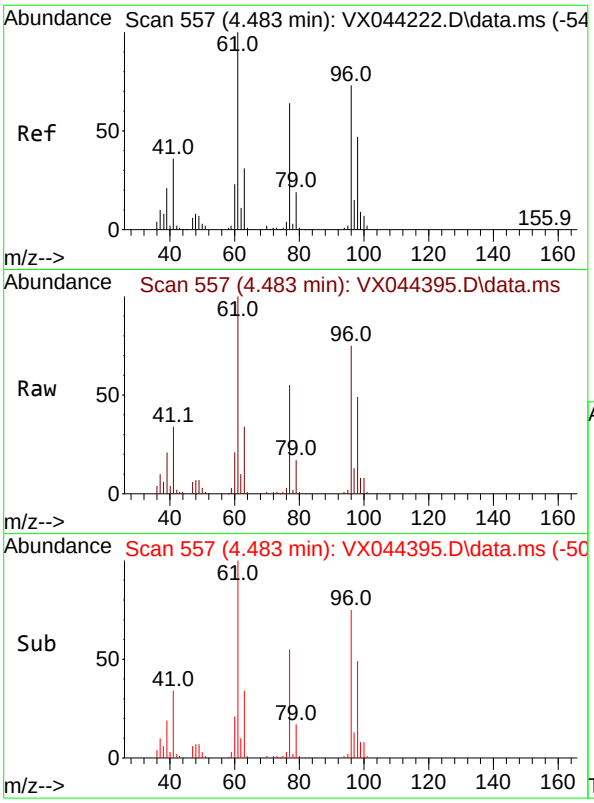


#26
2,2-Dichloropropane
Concen: 42.309 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 77 Resp: 103750

Ion	Ratio	Lower	Upper
77	100		
97	23.1	10.7	32.1



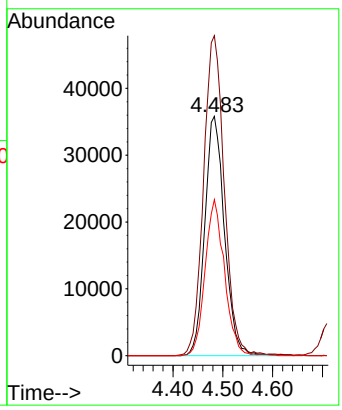


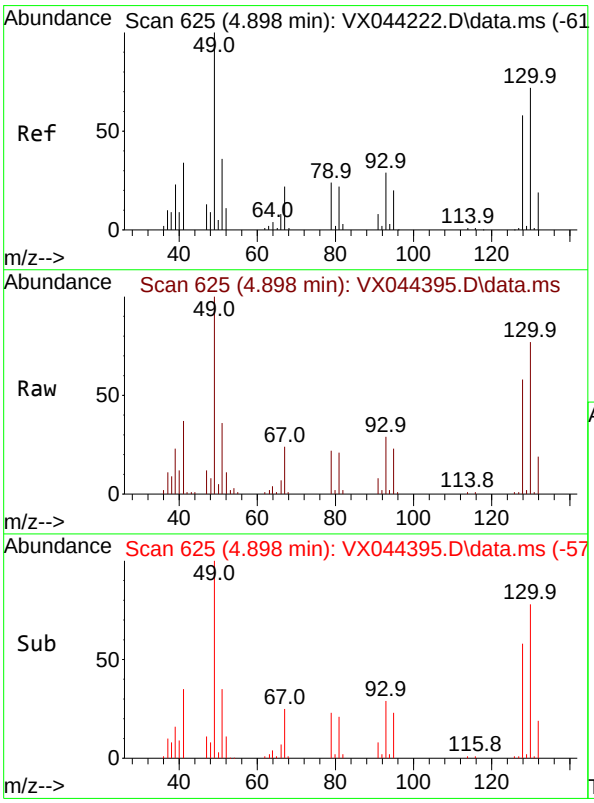
#27
cis-1,2-Dichloroethene
Concen: 50.424 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 98262

Ion	Ratio	Lower	Upper
96	100		
61	140.8	0.0	299.0
98	64.1	0.0	129.0

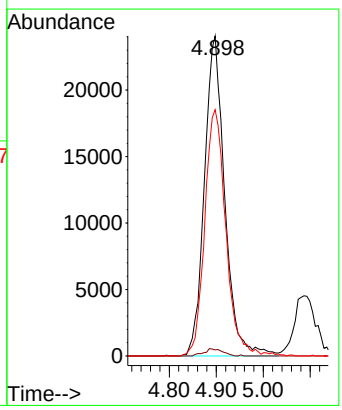


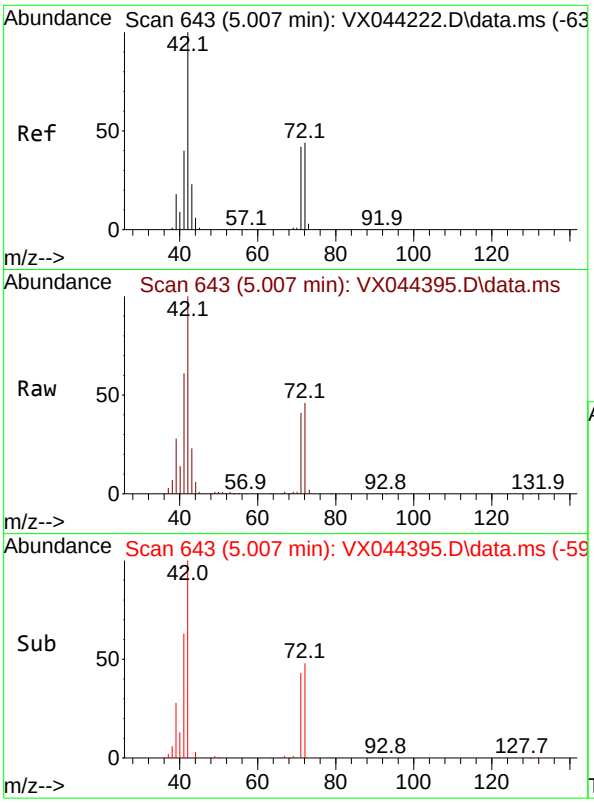


#28
Bromochloromethane
Concen: 48.821 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 49 Resp: 72263

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	79.5	62.1	93.1



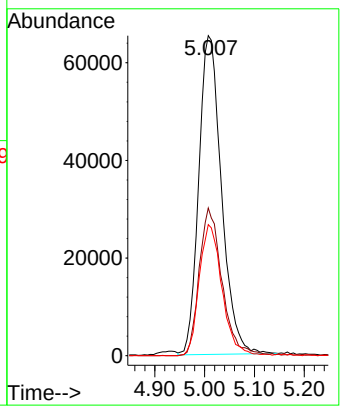


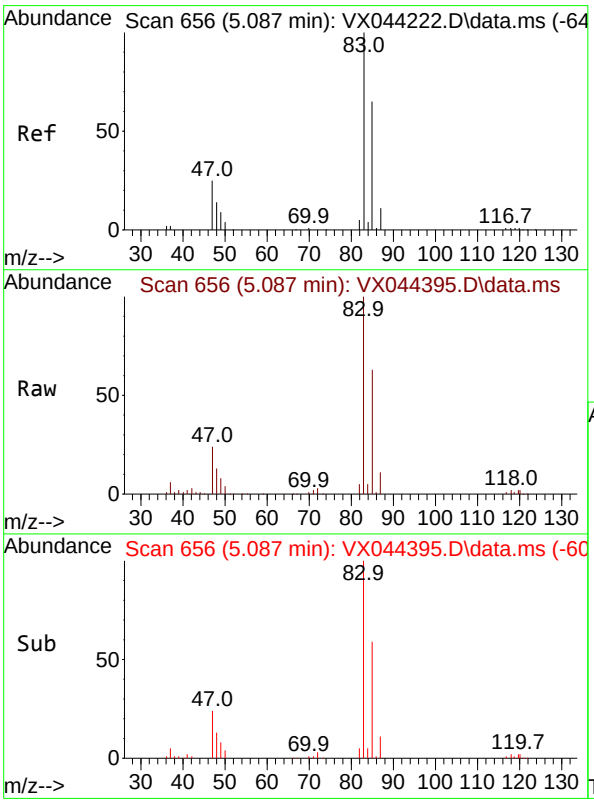
#29
Tetrahydrofuran
Concen: 245.825 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 206531

Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.0	55.6
71	41.1	33.6	50.4

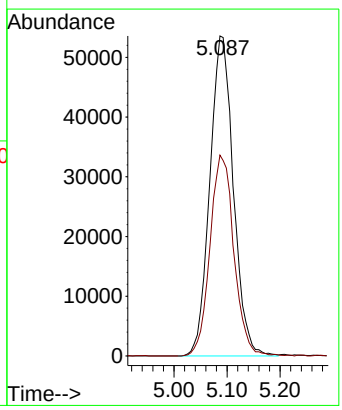


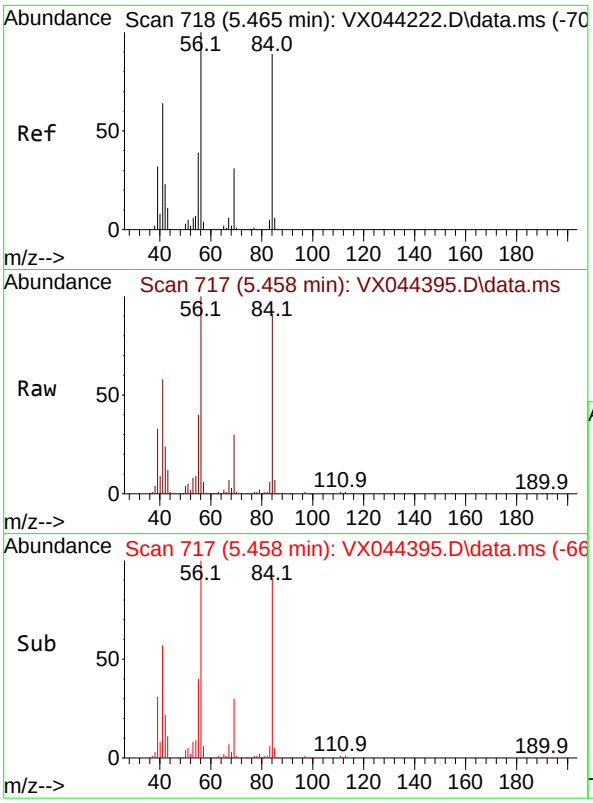


#30
Chloroform
Concen: 48.758 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 83 Resp: 165359

Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.6	77.4



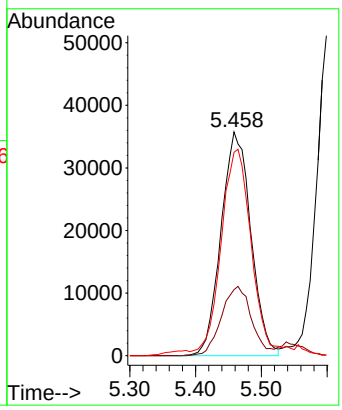


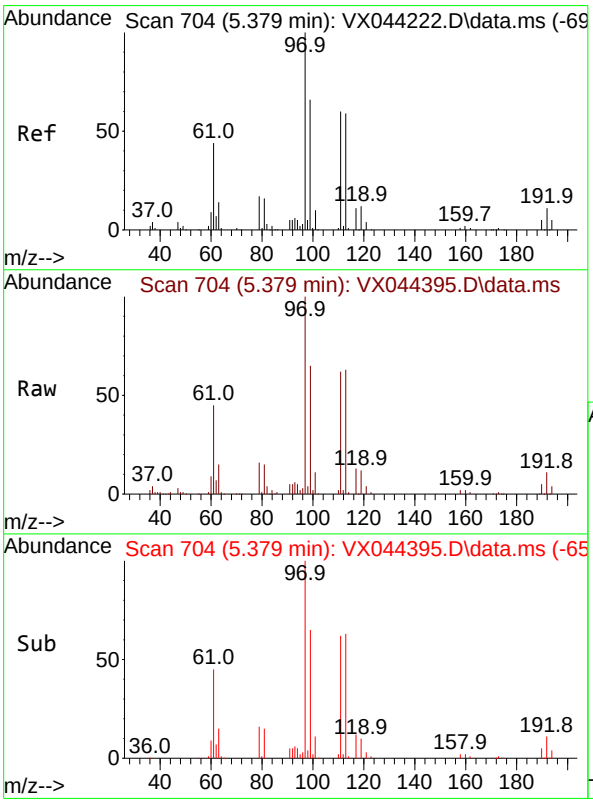
#31
Cyclohexane
Concen: 46.246 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 112724

Ion	Ratio	Lower	Upper
56	100		
69	29.5	24.7	37.1
84	88.9	71.0	106.6

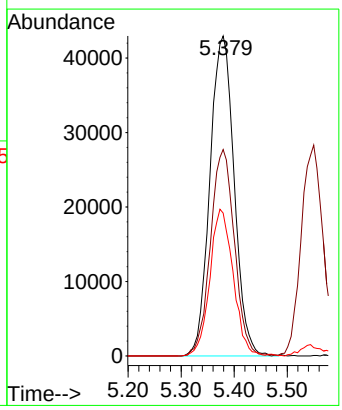


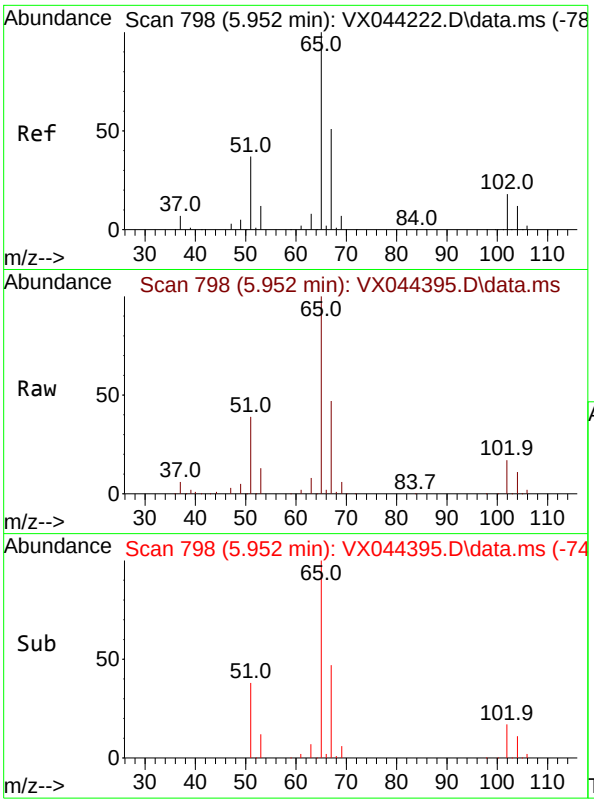


#32
1,1,1-Trichloroethane
Concen: 48.484 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 97 Resp: 136491

Ion	Ratio	Lower	Upper
97	100		
99	63.9	50.8	76.2
61	44.0	35.2	52.8



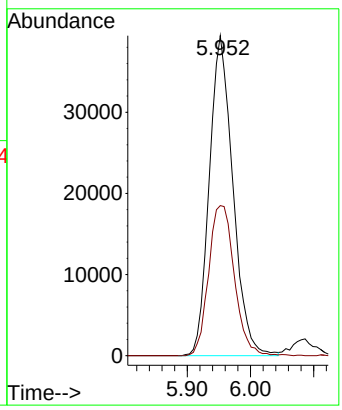


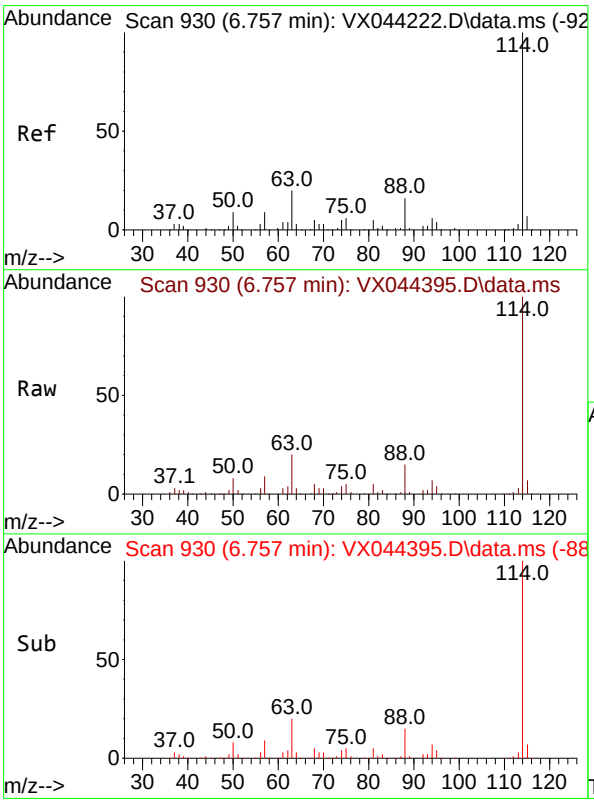
#33
1,2-Dichloroethane-d4
Concen: 45.184 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 102044

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6

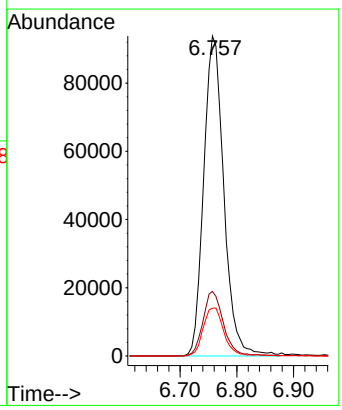


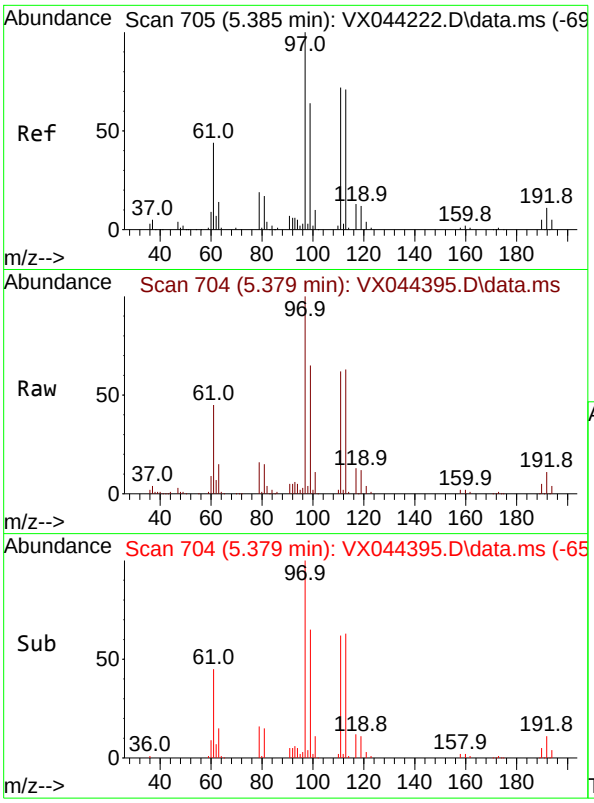


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:114 Resp: 231562

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.6
88	14.9	0.0	31.8



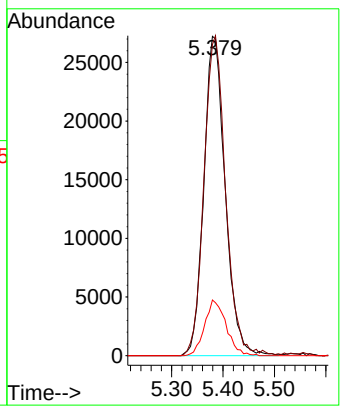


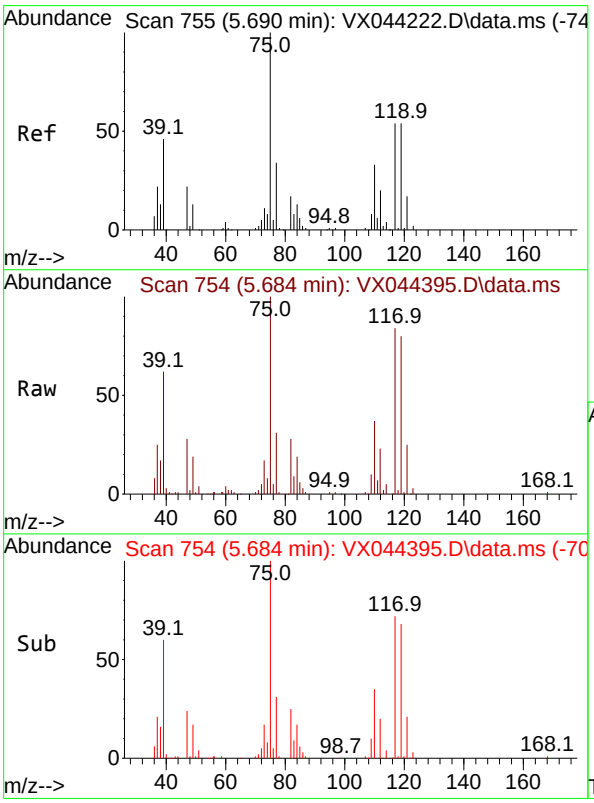
#35
Dibromofluoromethane
Concen: 49.020 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 78617

Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.4	120.6
192	17.6	13.3	19.9

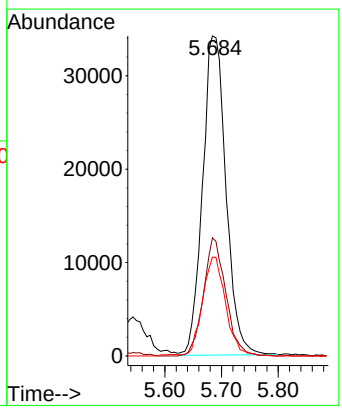


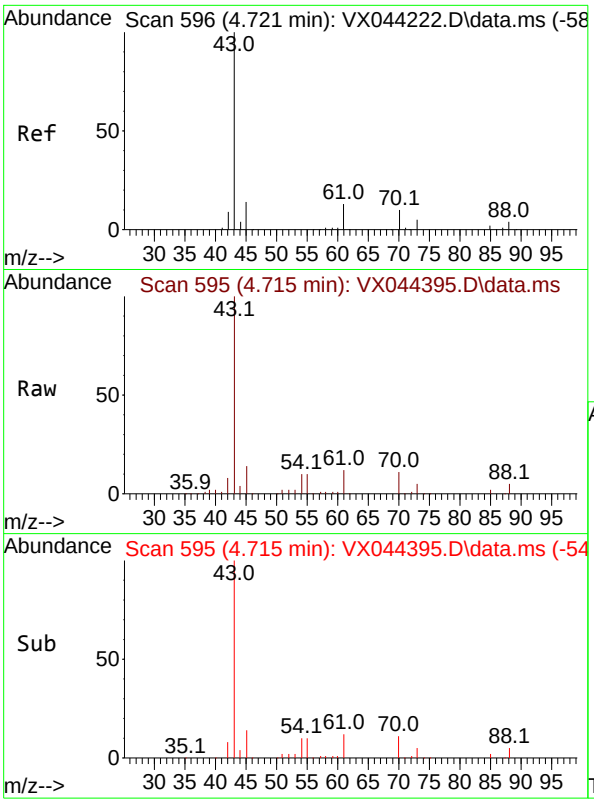


#36
1,1-Dichloropropene
Concen: 47.323 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 98106

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.3	51.7
77	30.7	25.4	38.0



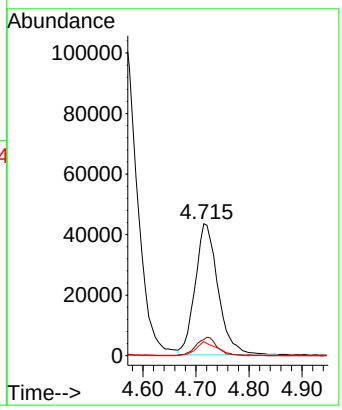


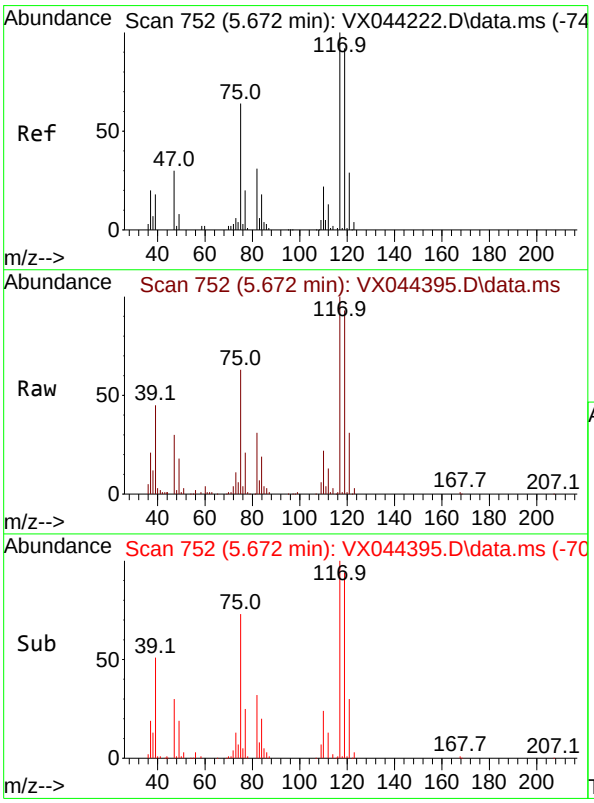
#37
Ethyl Acetate
Concen: 50.635 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 129759

Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.8	14.8
70	9.6	7.7	11.5

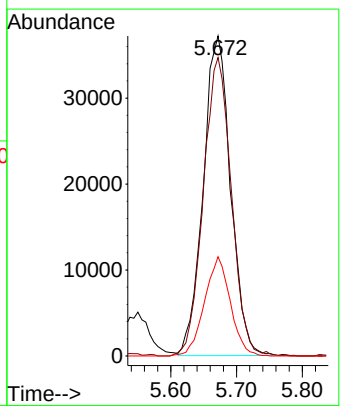


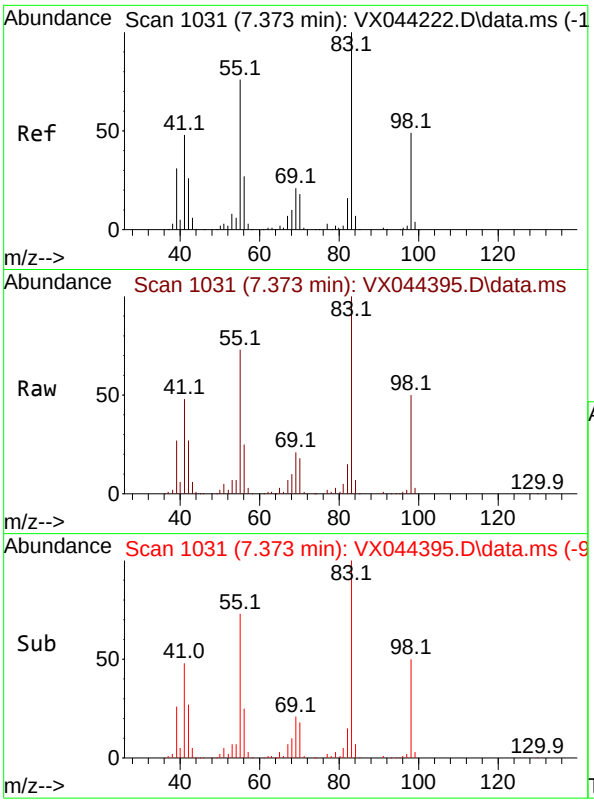


#38
Carbon Tetrachloride
Concen: 48.318 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:117 Resp: 107841

Ion	Ratio	Lower	Upper
117	100		
119	93.2	74.2	111.4
121	31.1	23.0	34.6



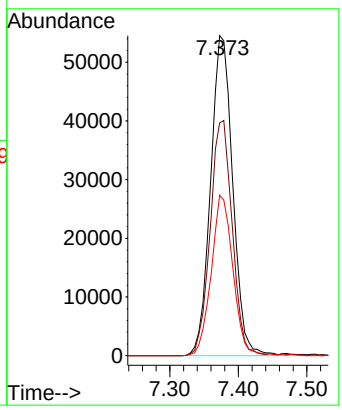


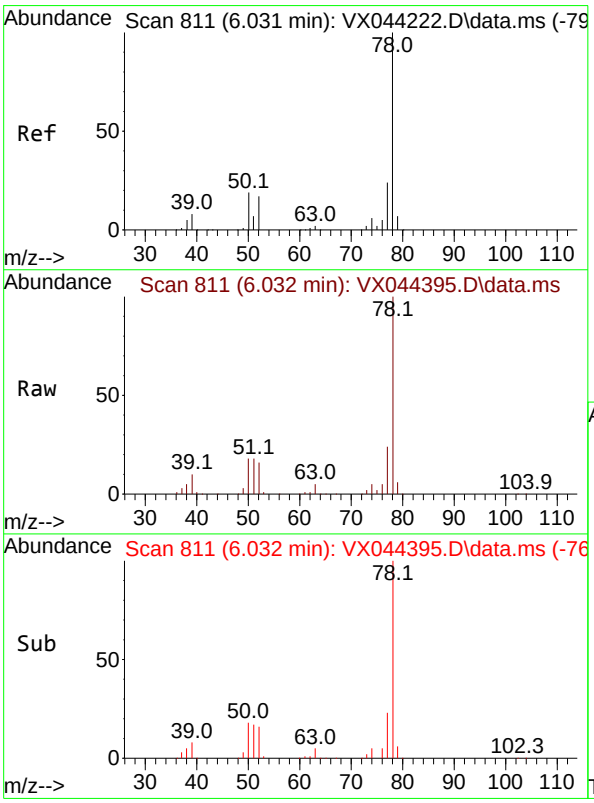
#39
Methylcyclohexane
Concen: 49.289 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 122156

Ion	Ratio	Lower	Upper
83	100		
55	72.7	60.7	91.1
98	50.2	38.9	58.3

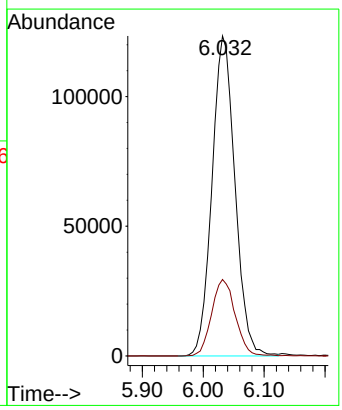


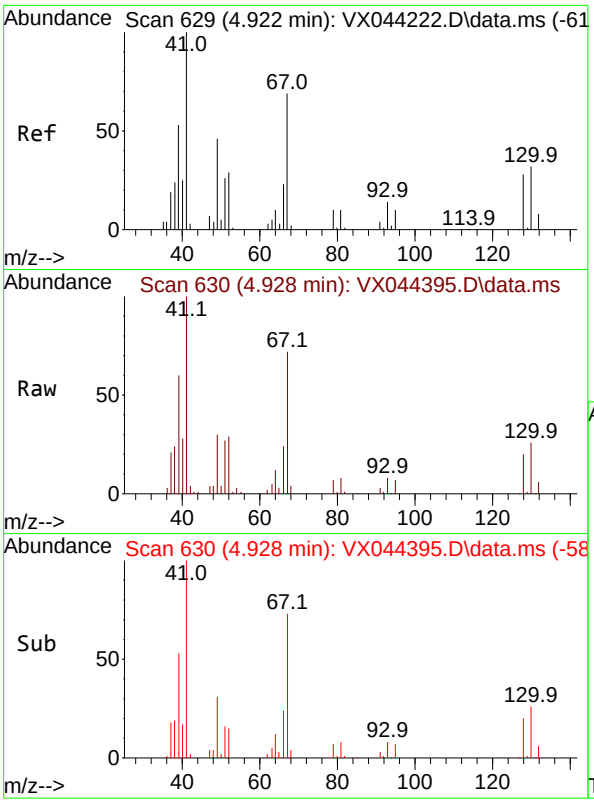


#40
Benzene
Concen: 51.403 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 78 Resp: 323543

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.3	28.9



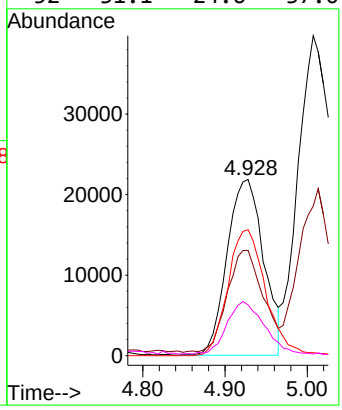


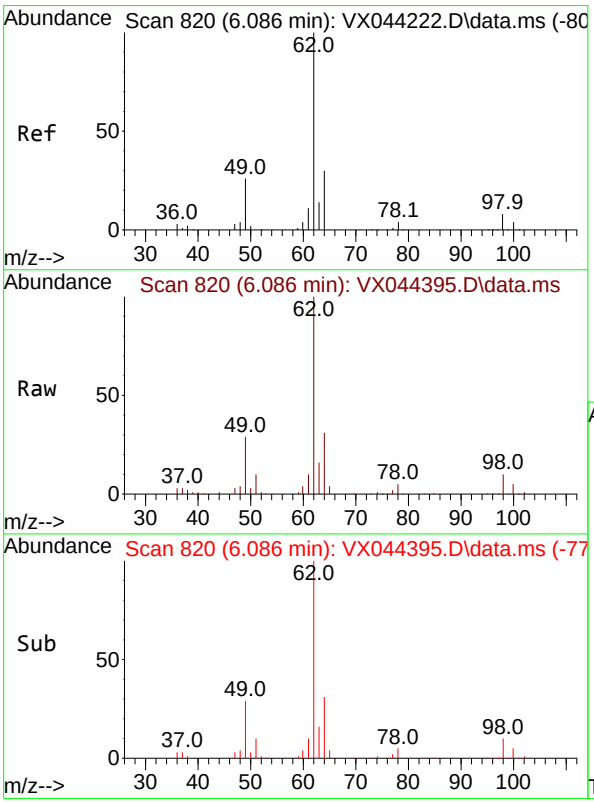
#41
Methacrylonitrile
Concen: 49.647 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 67557

Ion	Ratio	Lower	Upper
41	100		
39	56.7	44.2	66.4
67	74.5	57.2	85.8
52	31.1	24.6	37.0

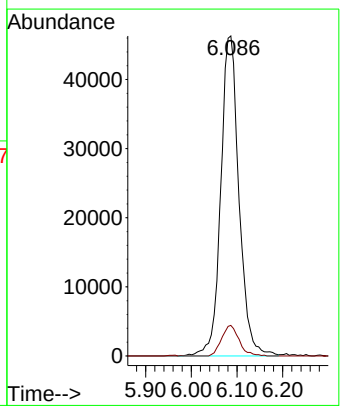


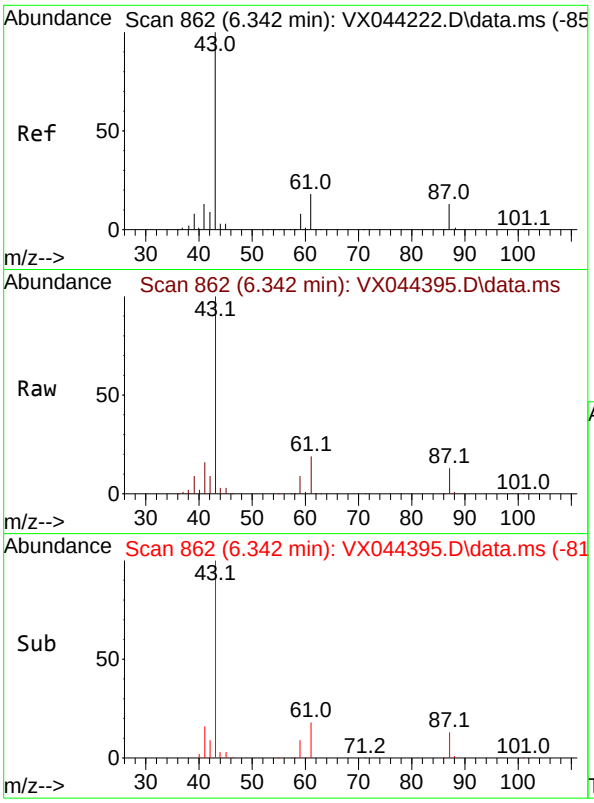


#42
1,2-Dichloroethane
Concen: 49.504 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 62 Resp: 128355

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	15.8



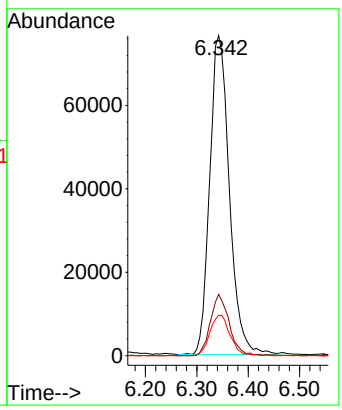


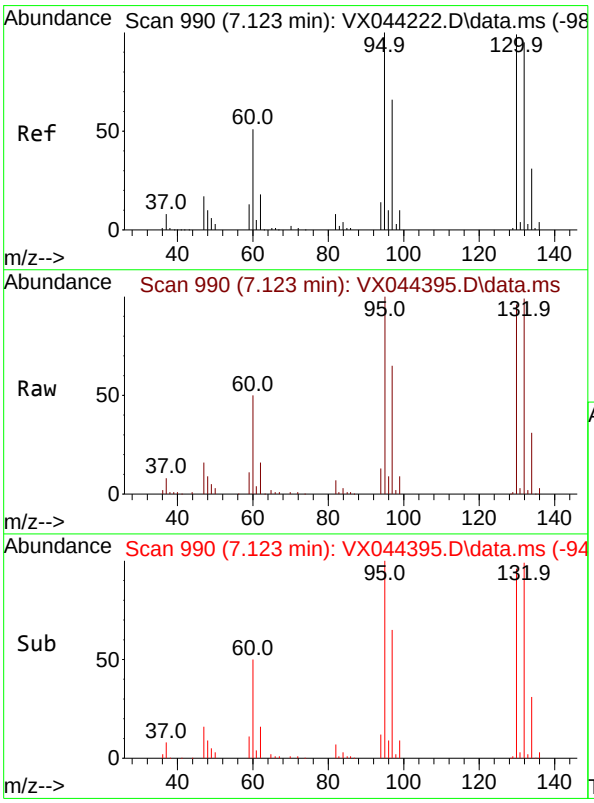
#43
Isopropyl Acetate
Concen: 50.693 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 203040

Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.2	21.2
87	12.9	10.2	15.2

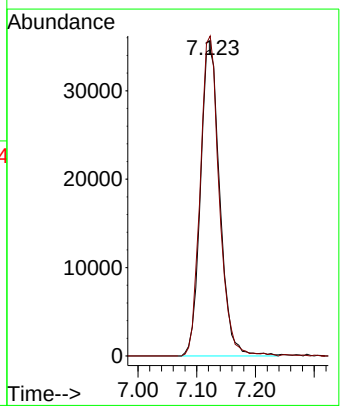


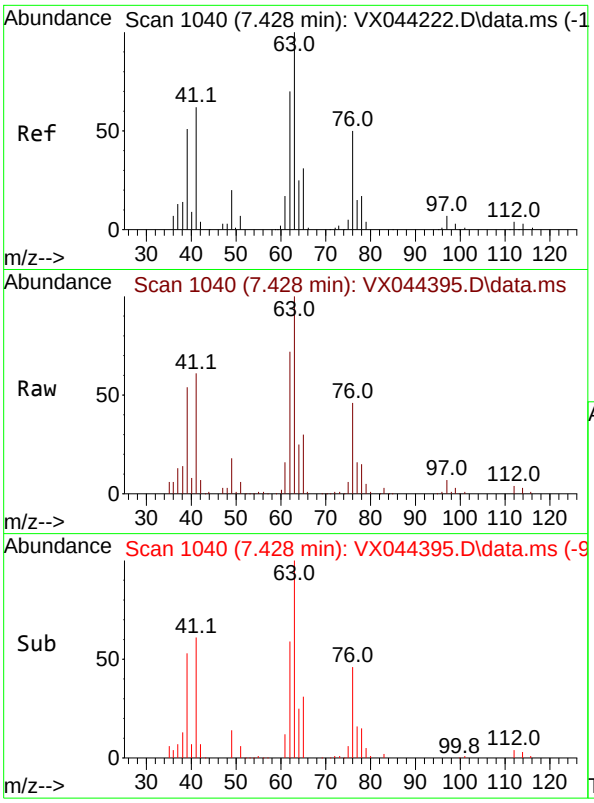


#44
Trichloroethene
Concen: 51.229 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:130 Resp: 80410

Ion	Ratio	Lower	Upper
130	100		
95	104.6	0.0	201.4



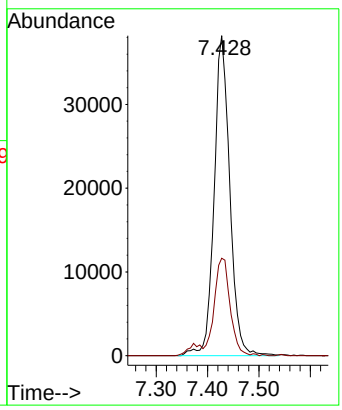


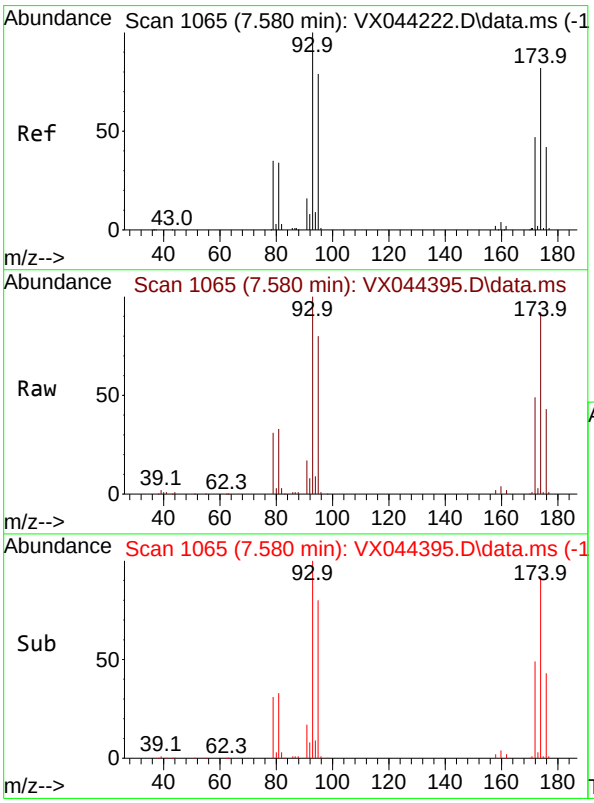
#45
1,2-Dichloropropane
Concen: 50.319 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 80917

Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.6	37.0

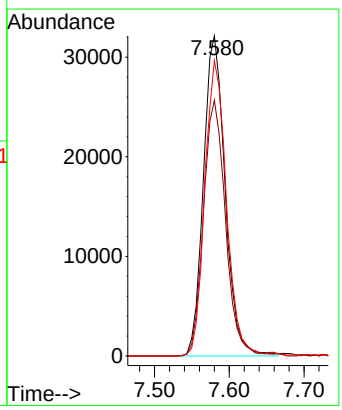


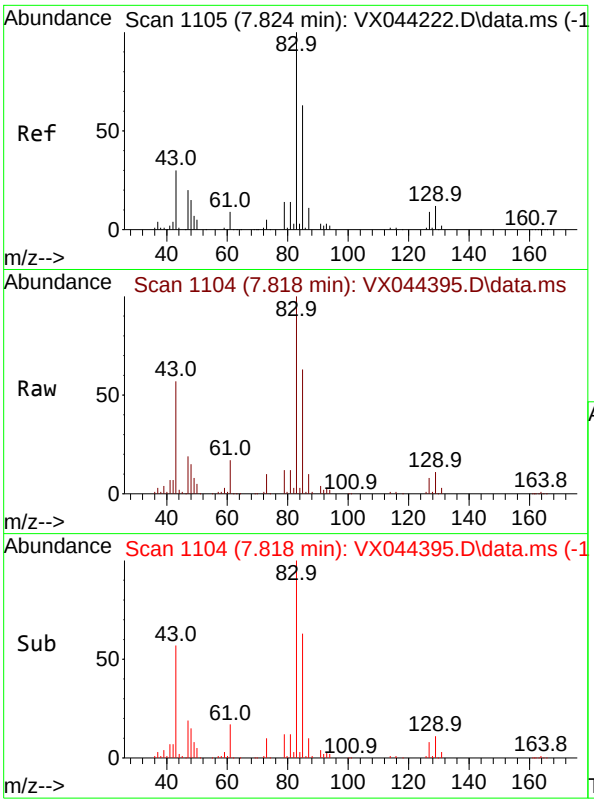


#46
Dibromomethane
Concen: 51.979 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 93 Resp: 64847

Ion	Ratio	Lower	Upper
93	100		
95	80.8	65.4	98.2
174	92.7	67.9	101.9



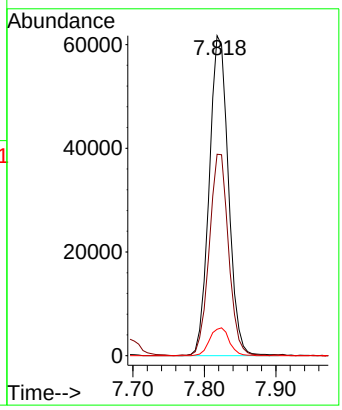


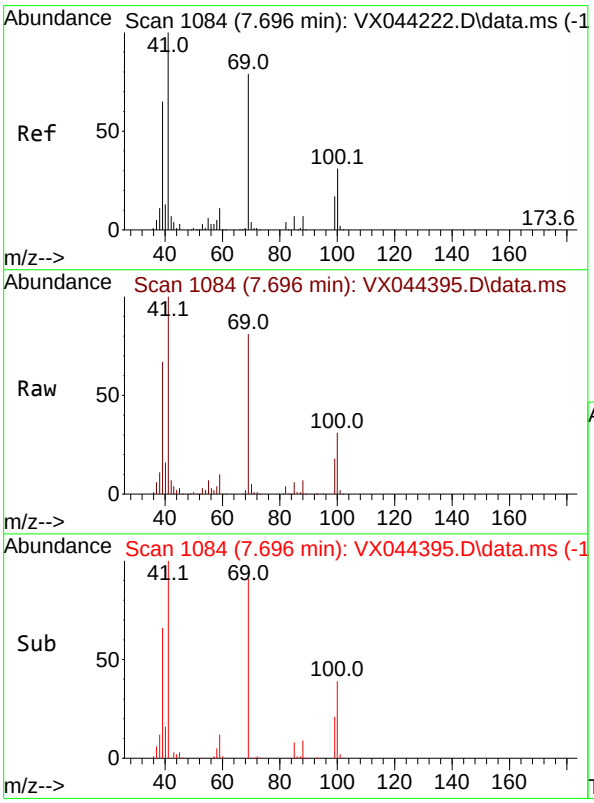
#47
Bromodichloromethane
Concen: 53.349 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 114945

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.6	75.8
127	8.2	7.3	10.9

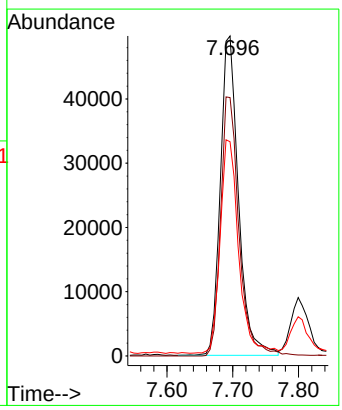


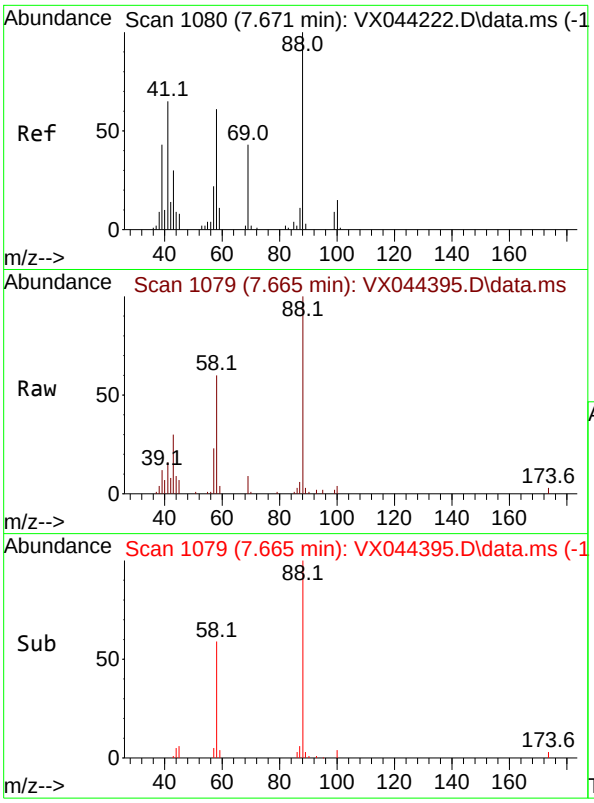


#48
Methyl methacrylate
Concen: 49.082 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 41 Resp: 95430

Ion	Ratio	Lower	Upper
41	100		
69	82.3	62.4	93.6
39	67.7	53.3	79.9



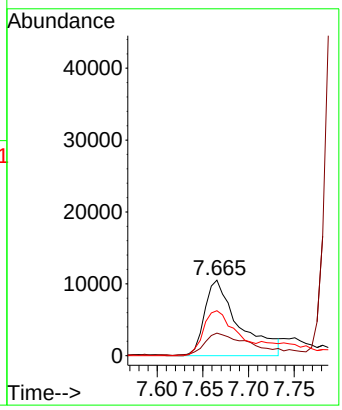


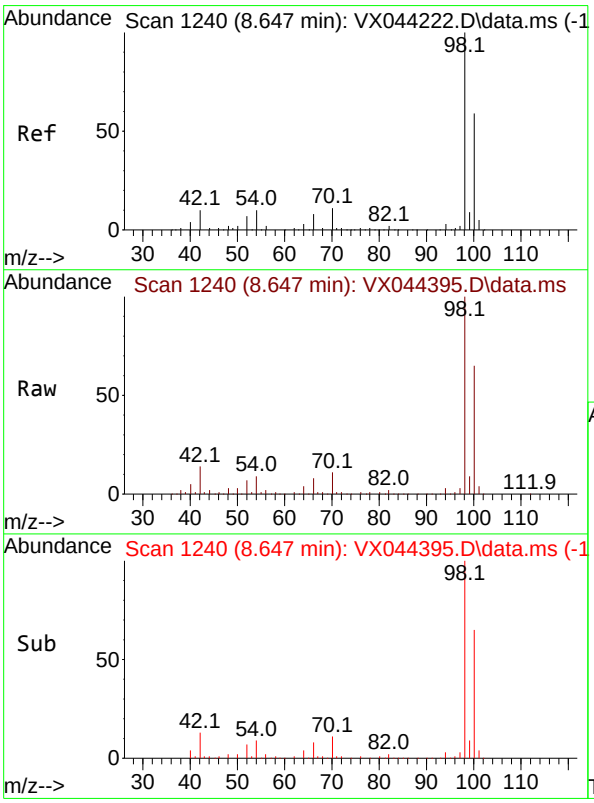
#49
1,4-Dioxane
Concen: 854.459 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 27544

Ion	Ratio	Lower	Upper
88	100		
43	41.5	27.1	40.7#
58	56.6	41.0	61.4

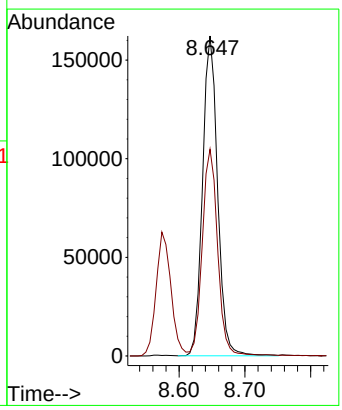


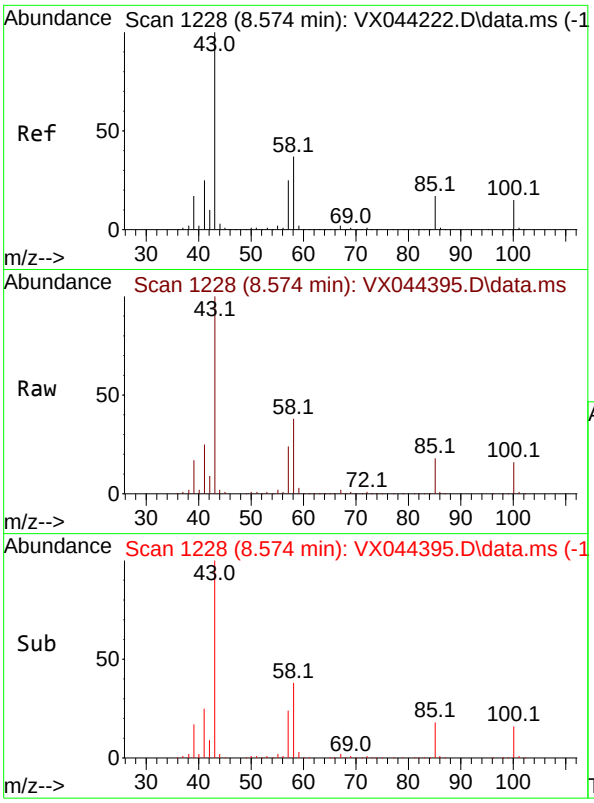


#50
Toluene-d8
Concen: 47.694 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 98 Resp: 258060

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.5	77.3



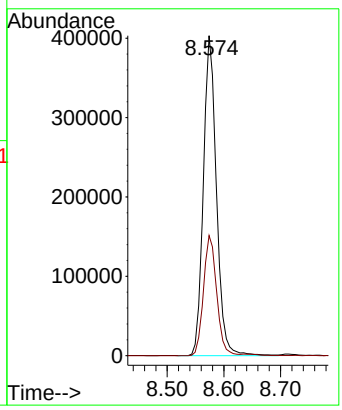


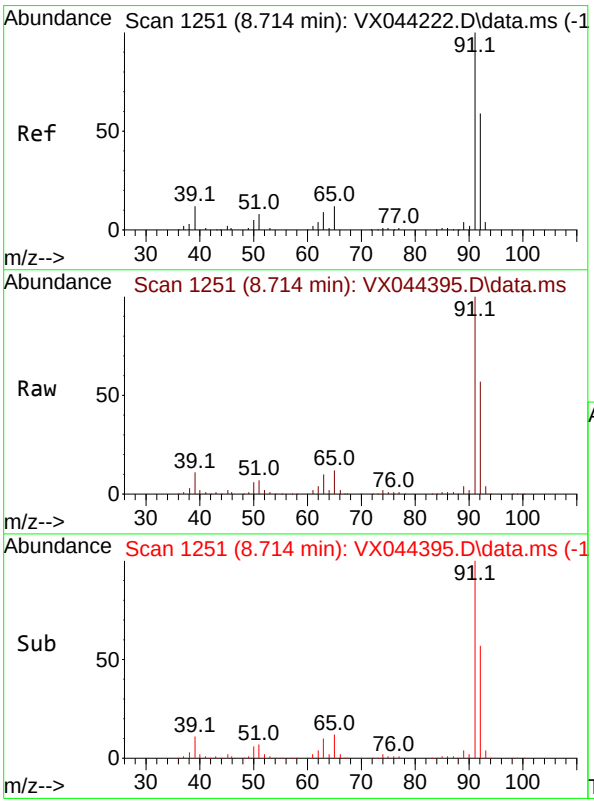
#51
4-Methyl-2-Pentanone
Concen: 251.054 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 646548

Ion	Ratio	Lower	Upper
43	100		
58	37.8	29.4	44.0

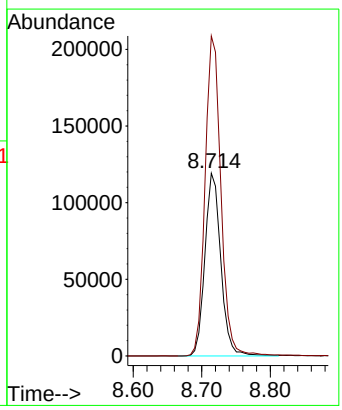


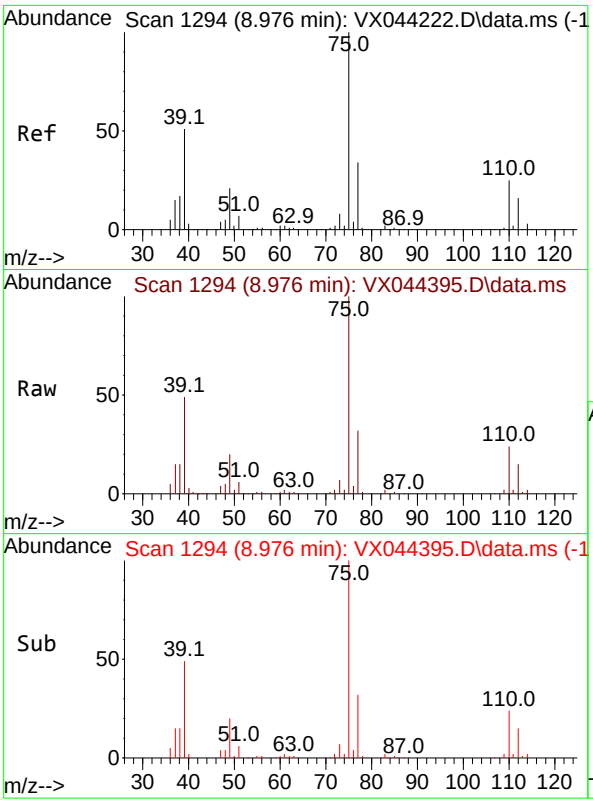


#52
Toluene
Concen: 48.790 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 92 Resp: 192849

Ion	Ratio	Lower	Upper
92	100		
91	174.7	137.0	205.6



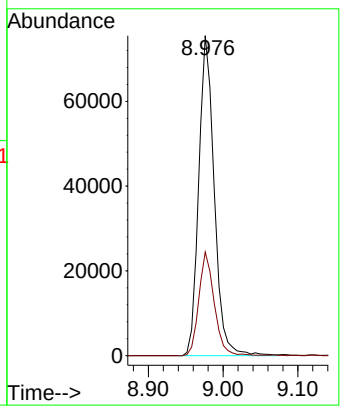


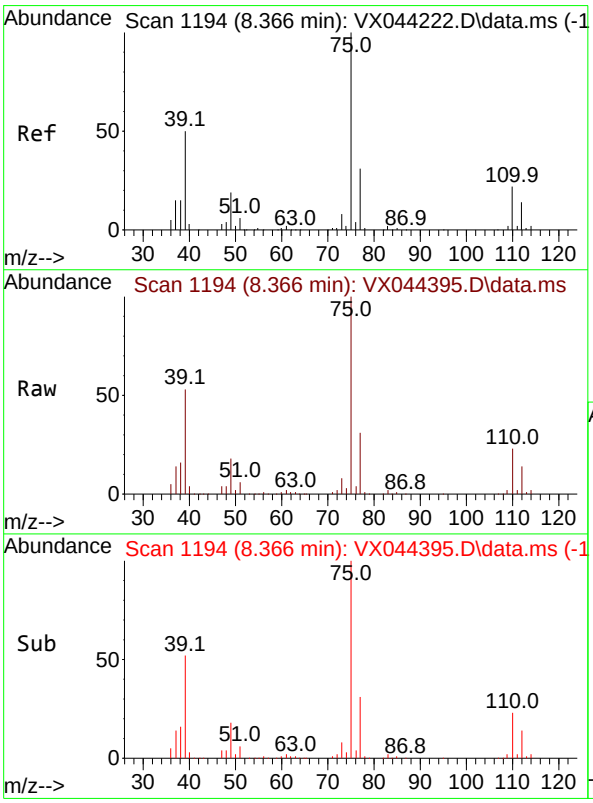
#53
t-1,3-Dichloropropene
Concen: 47.246 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 108831

Ion	Ratio	Lower	Upper
75	100		
77	32.4	27.2	40.8

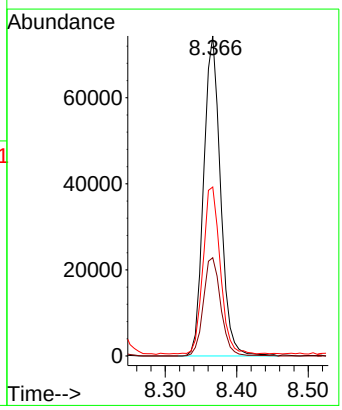


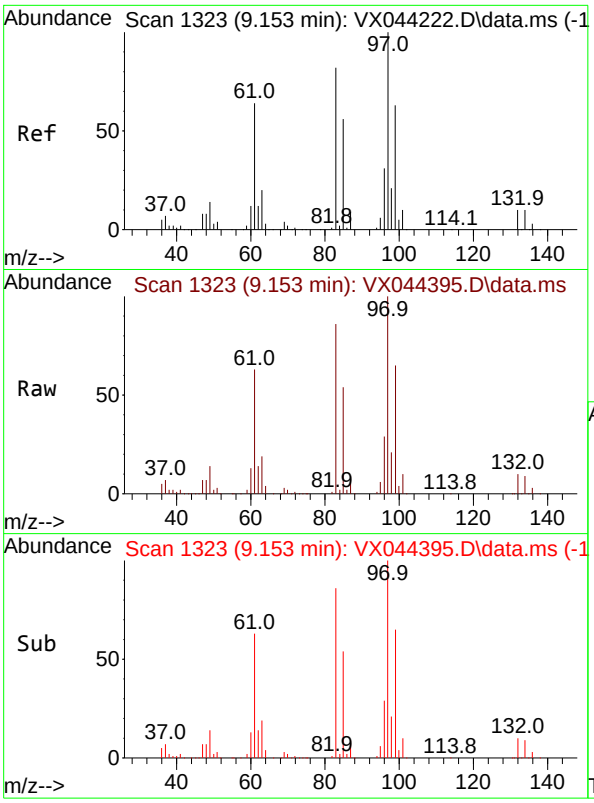


#54
cis-1,3-Dichloropropene
Concen: 51.907 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 121772

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.7	37.1
39	52.1	40.3	60.5



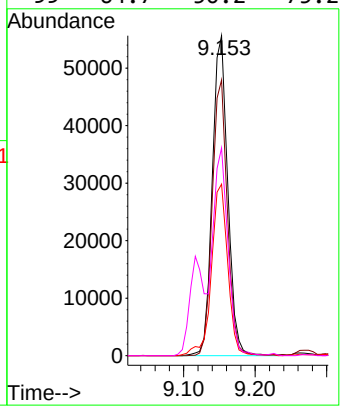


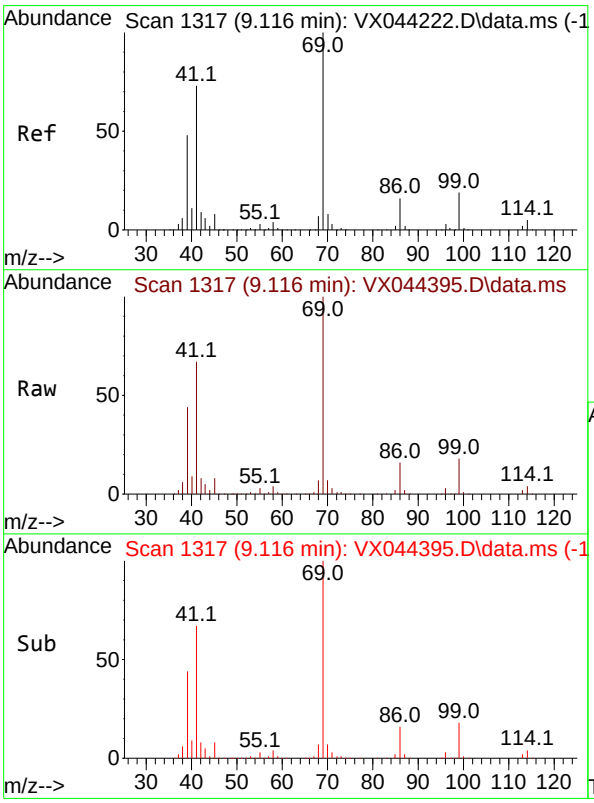
#55
1,1,2-Trichloroethane
Concen: 53.041 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 83289

Ion	Ratio	Lower	Upper
97	100		
83	86.2	65.3	97.9
85	53.6	44.6	67.0
99	64.7	50.2	75.2

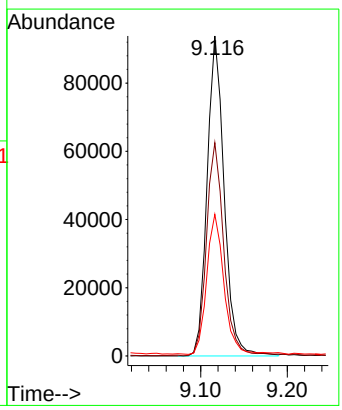


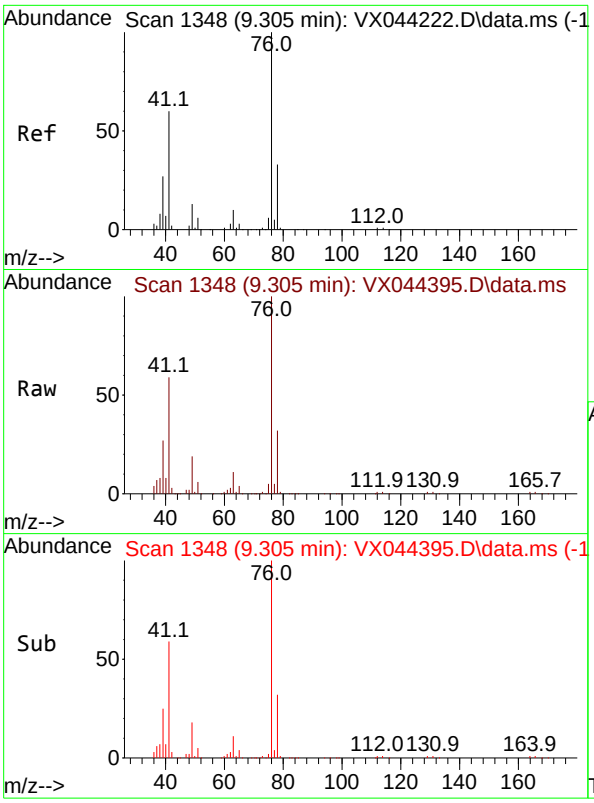


#56
Ethyl methacrylate
Concen: 51.786 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 69 Resp: 128375

Ion	Ratio	Lower	Upper
69	100		
41	68.1	56.6	85.0
39	44.5	37.4	56.0



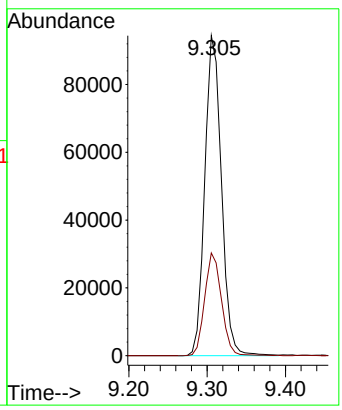


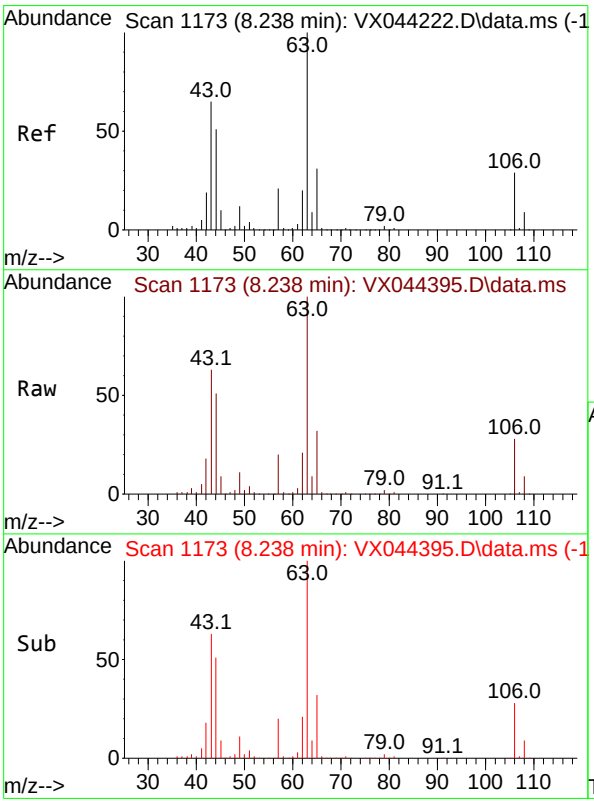
#57
1,3-Dichloropropane
Concen: 50.869 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 139034

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.5	39.7

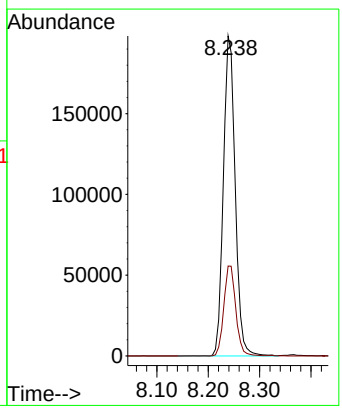


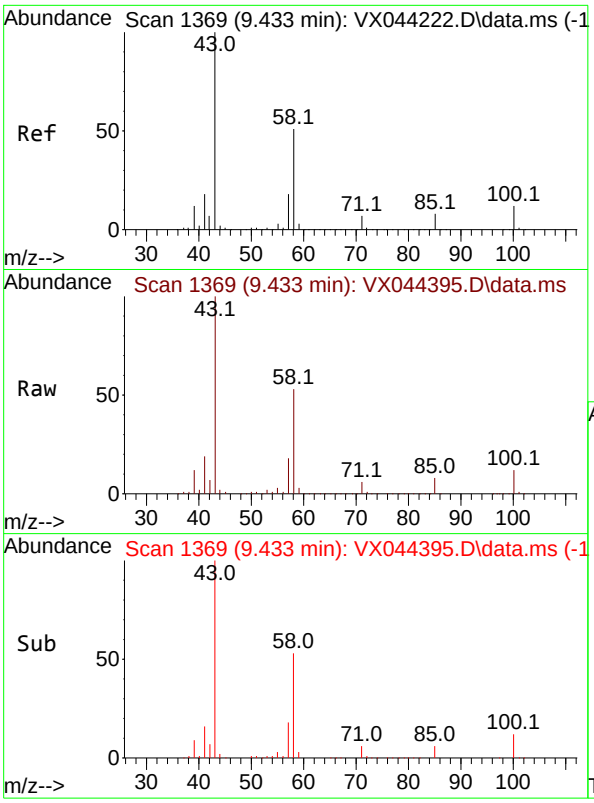


#58
2-Chloroethyl Vinyl ether
Concen: 253.061 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 63 Resp: 316405

Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.8	34.2



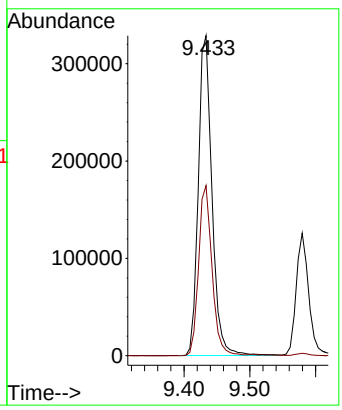


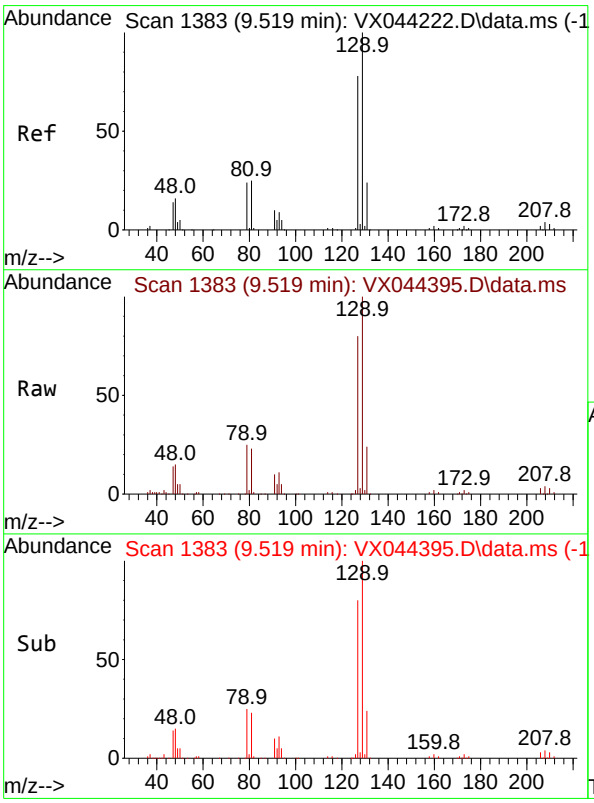
#59
2-Hexanone
Concen: 254.459 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 474334

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.7	77.0

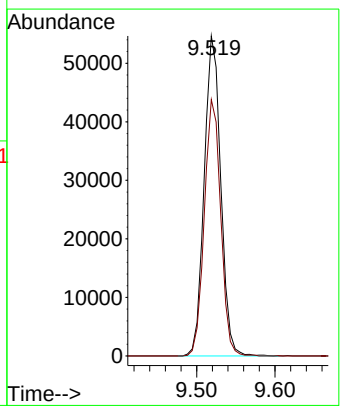


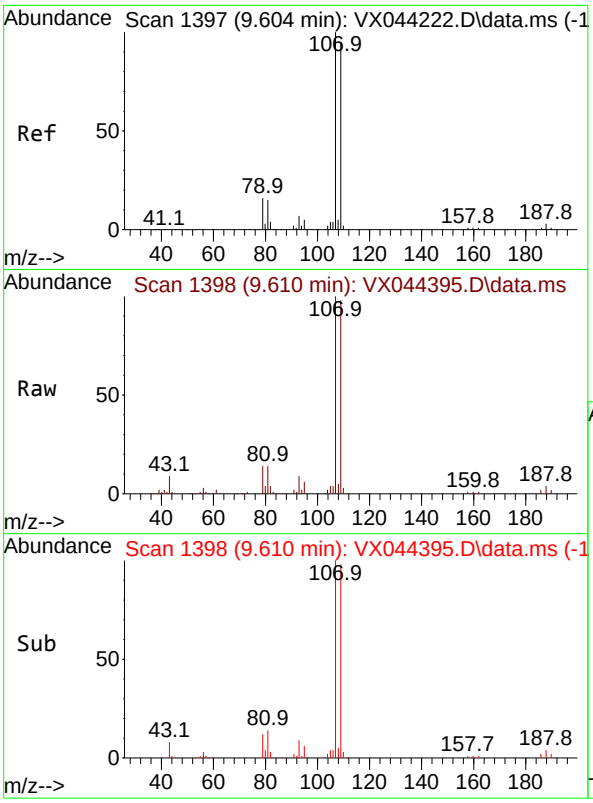


#60
Dibromochloromethane
Concen: 48.292 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:129 Resp: 80110

Ion	Ratio	Lower	Upper
129	100		
127	79.3	38.5	115.3



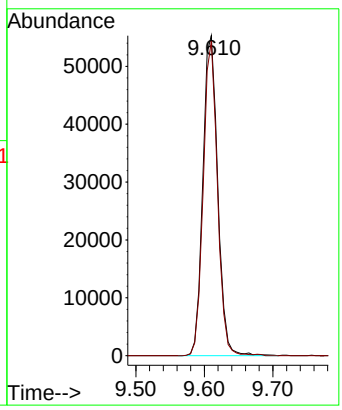


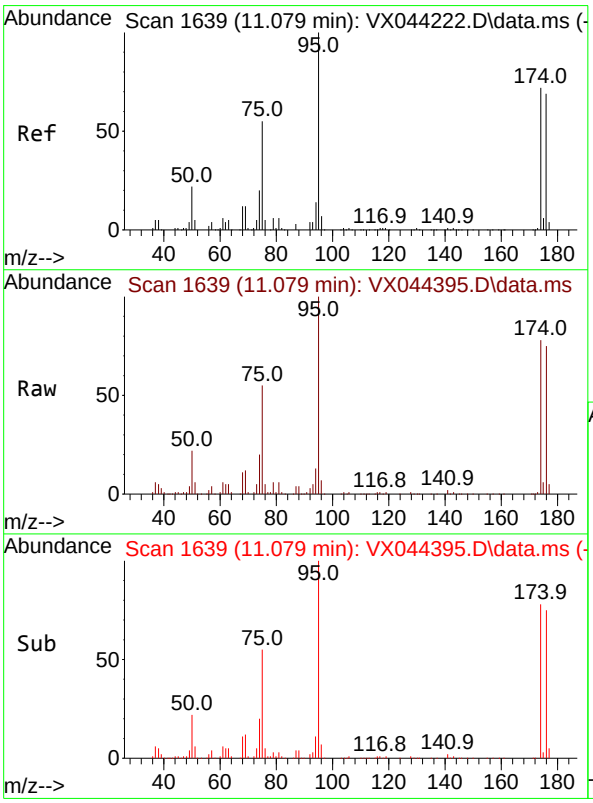
#61
1,2-Dibromoethane
Concen: 52.335 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 83651

Ion	Ratio	Lower	Upper
107	100		
109	93.8	77.0	115.4

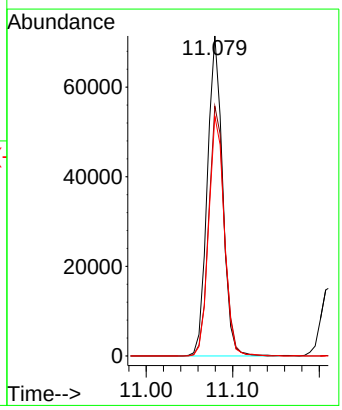


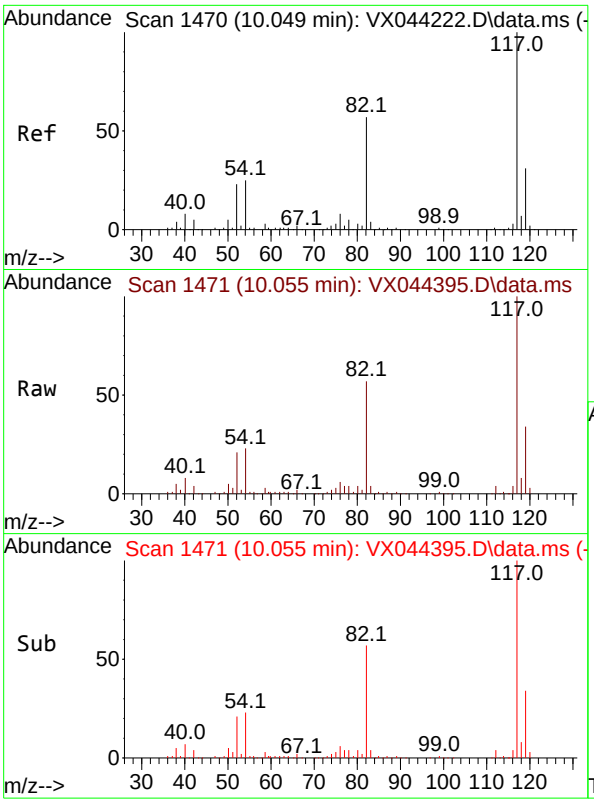


#62
4-Bromofluorobenzene
Concen: 46.251 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 95 Resp: 87444

Ion	Ratio	Lower	Upper
95	100		
174	79.4	0.0	145.8
176	76.5	0.0	137.8



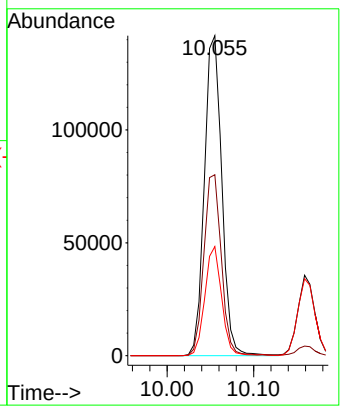


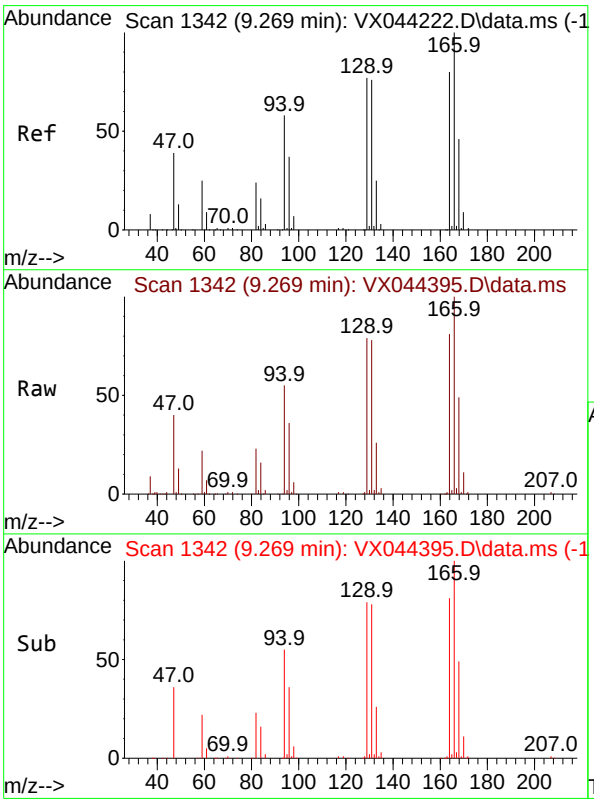
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 198322

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.8	68.8
119	34.1	25.0	37.4

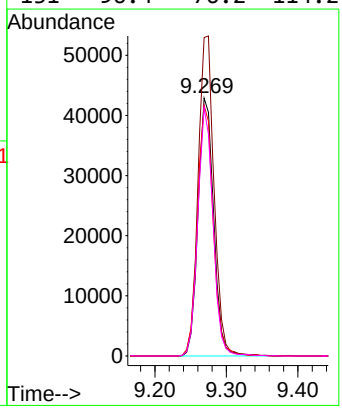


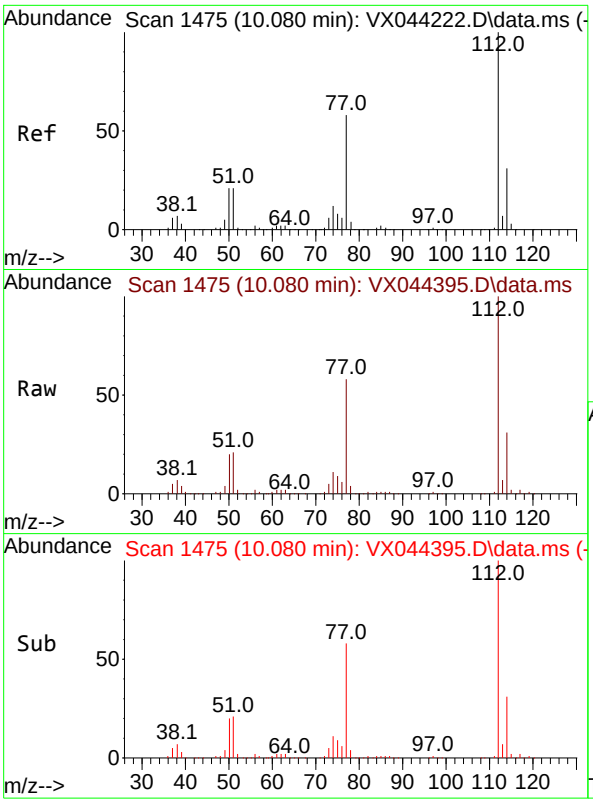


#64
Tetrachloroethene
Concen: 49.442 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:164 Resp: 65080

Ion	Ratio	Lower	Upper
164	100		
166	123.5	100.4	150.6
129	97.2	77.2	115.8
131	96.4	76.2	114.2



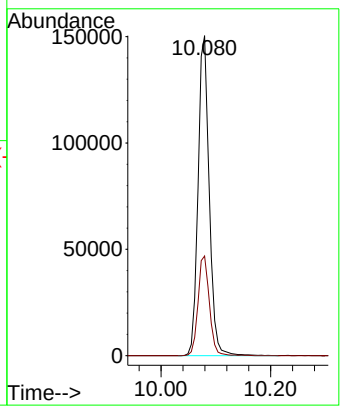


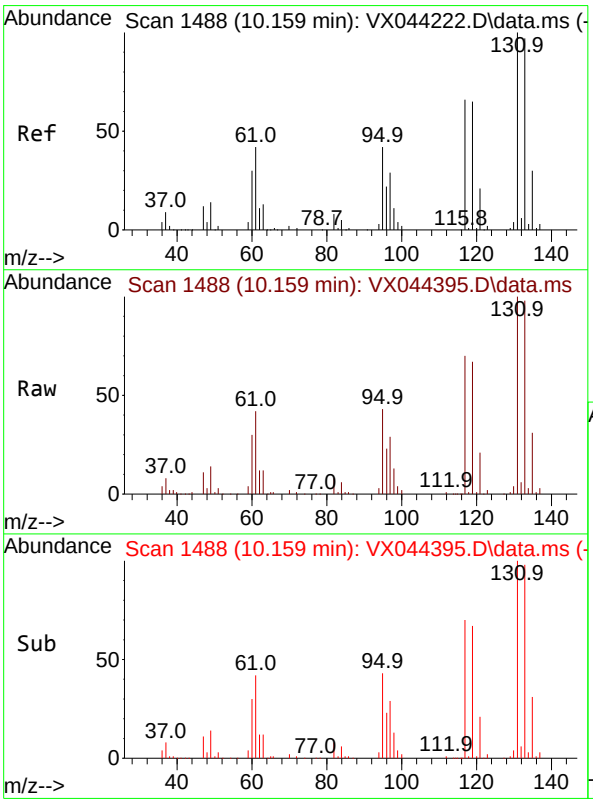
#65
Chlorobenzene
Concen: 50.011 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 212528

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.6

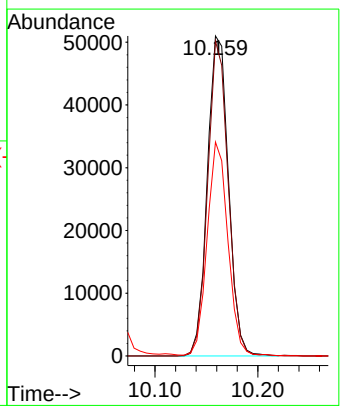


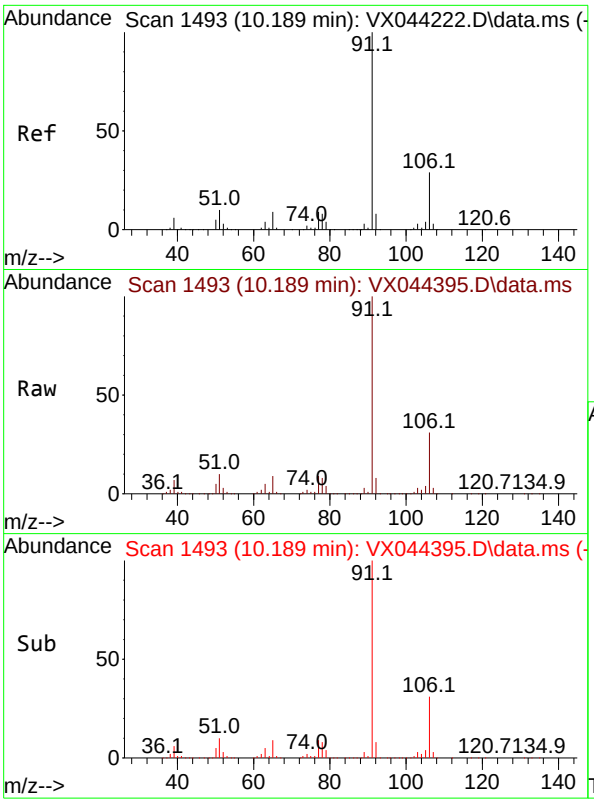


#66
1,1,1,2-Tetrachloroethane
Concen: 53.289 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:131 Resp: 72780

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	141.8
119	65.4	31.6	95.0



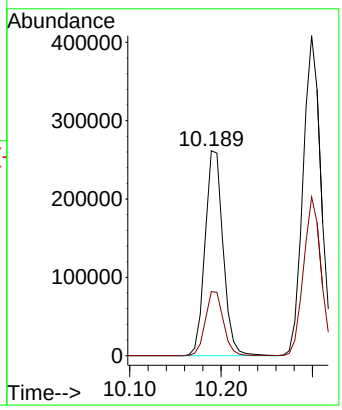


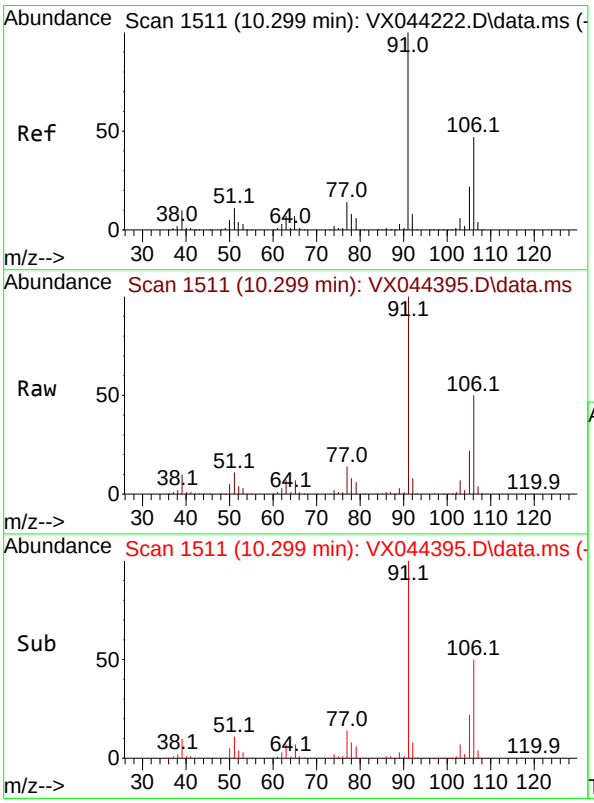
#67
Ethyl Benzene
Concen: 48.877 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 358882

Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.5	35.3

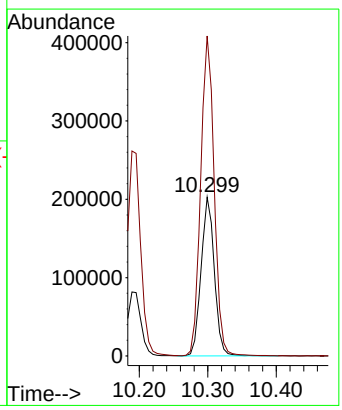


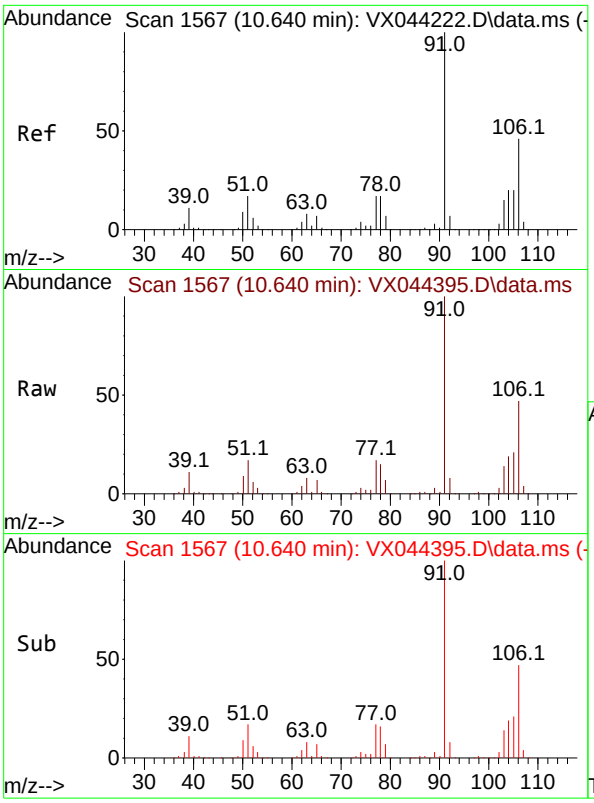


#68
m/p-Xylenes
Concen: 101.186 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:106 Resp: 272625

Ion	Ratio	Lower	Upper
106	100		
91	205.7	170.2	255.2



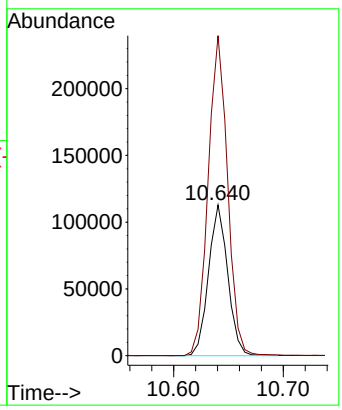


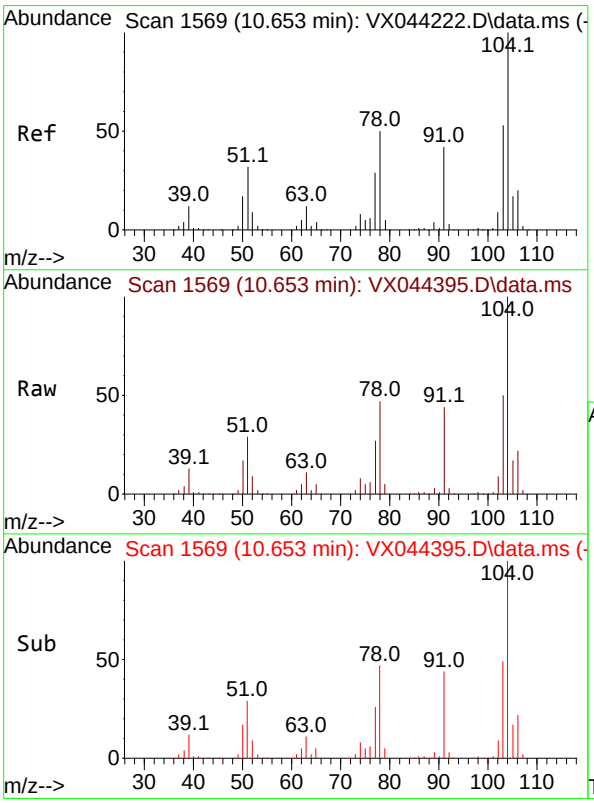
#69
o-Xylene
Concen: 50.475 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 137600

Ion	Ratio	Lower	Upper
106	100		
91	214.8	112.3	337.0

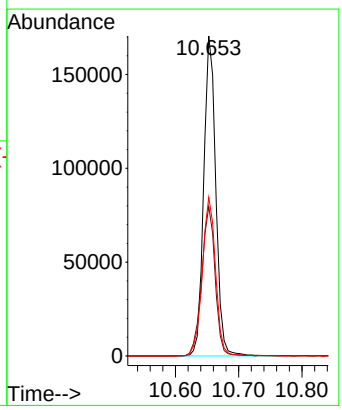


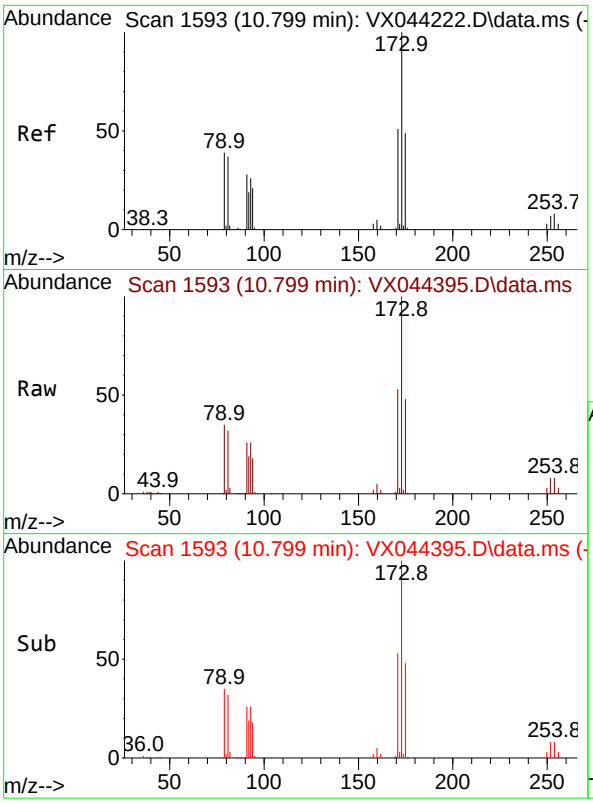


#70
Styrene
Concen: 51.996 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:104 Resp: 227233

Ion	Ratio	Lower	Upper
104	100		
78	51.9	44.6	67.0
103	54.6	45.4	68.0



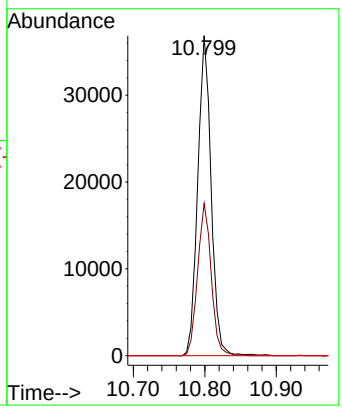


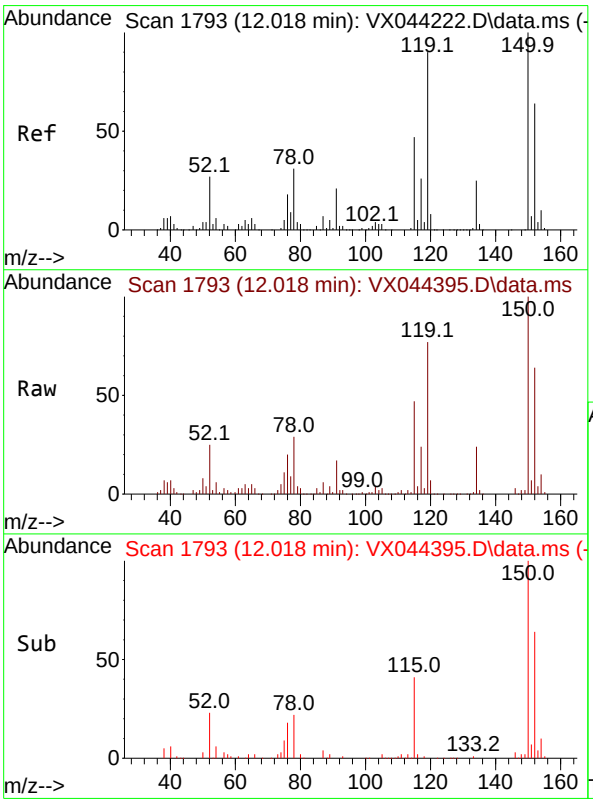
#71
Bromoform
Concen: 50.123 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 47848

Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.8	71.4
254	0.0	0.0	0.0

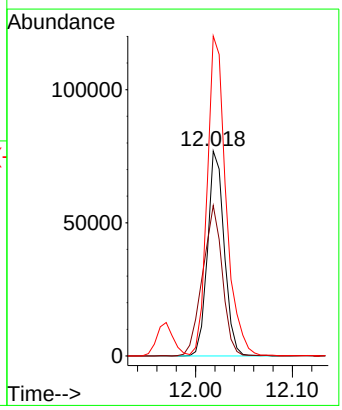


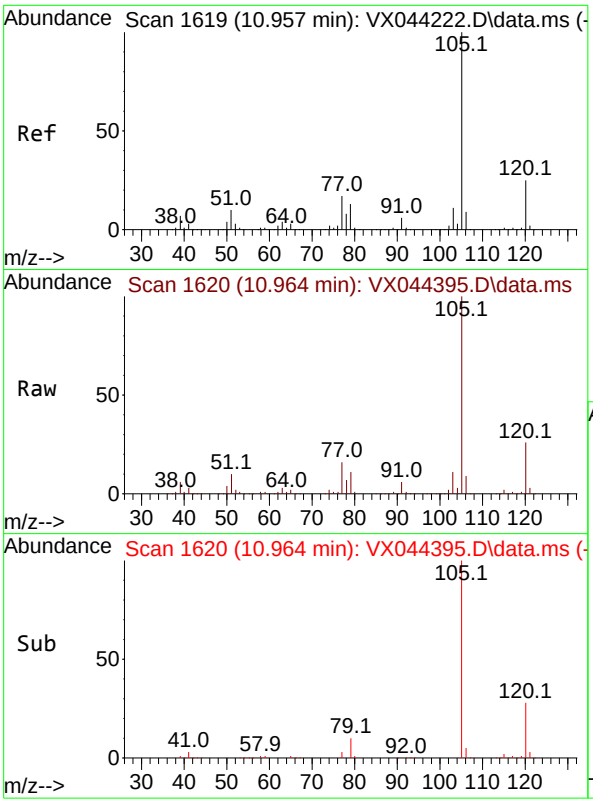


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:152 Resp: 92192

Ion	Ratio	Lower	Upper
152	100		
115	87.2	44.5	133.3
150	175.2	0.0	353.8



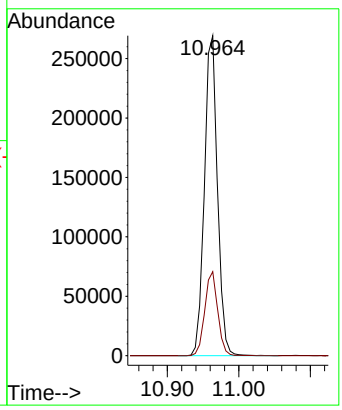


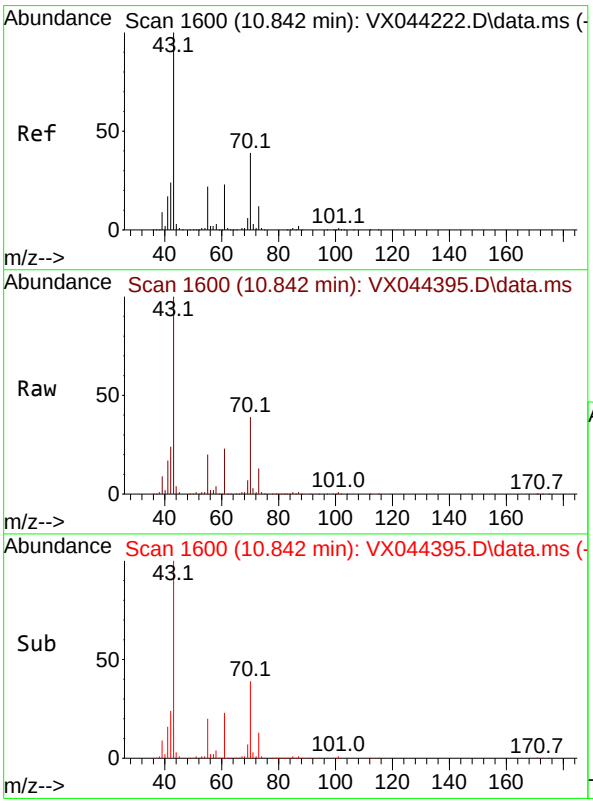
#73
Isopropylbenzene
Concen: 48.386 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 341494

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

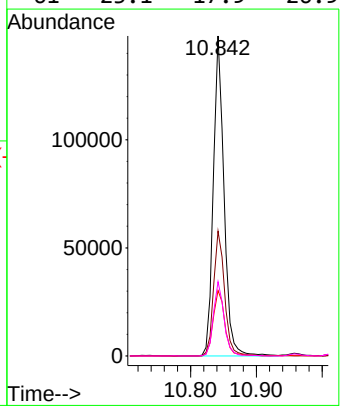


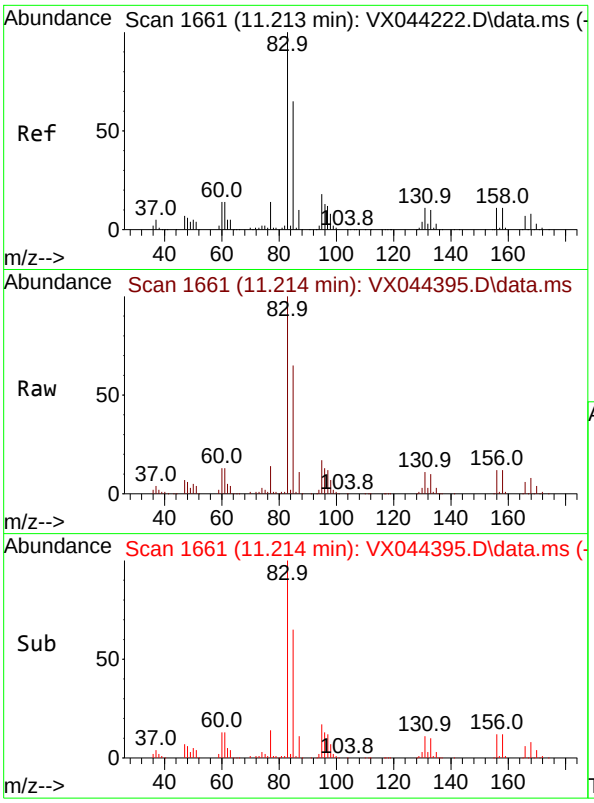


#74
N-amyl acetate
Concen: 51.447 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 43 Resp: 167806

Ion	Ratio	Lower	Upper
43	100		
70	40.3	31.9	47.9
55	22.2	17.9	26.9
61	23.1	17.9	26.9



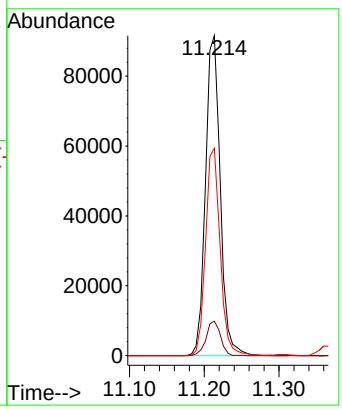


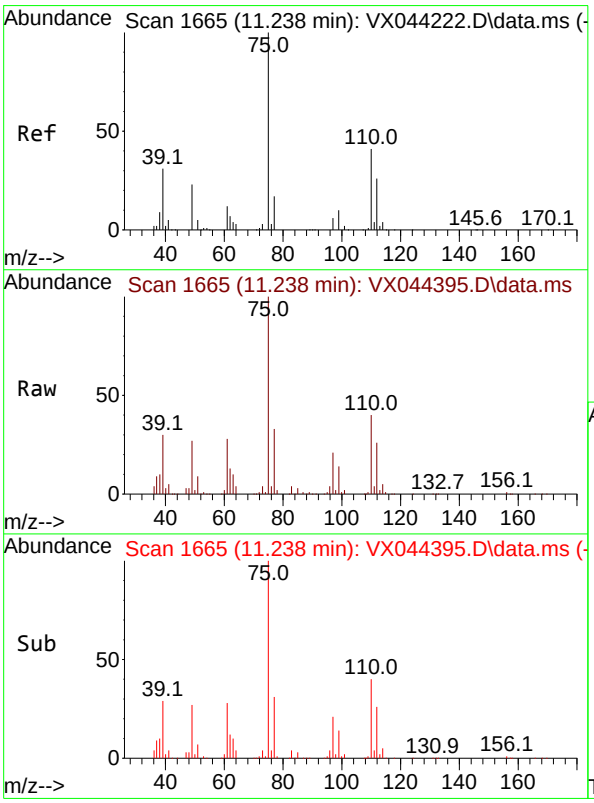
#75
1,1,2,2-Tetrachloroethane
Concen: 51.128 ug/l
RT: 11.214 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 125333

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.4
85	64.2	32.5	97.4

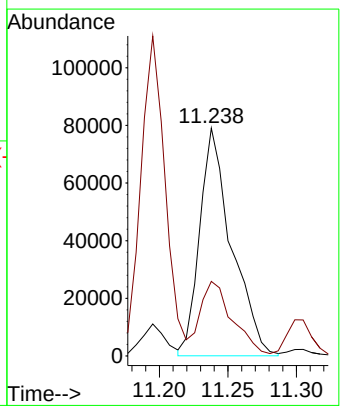


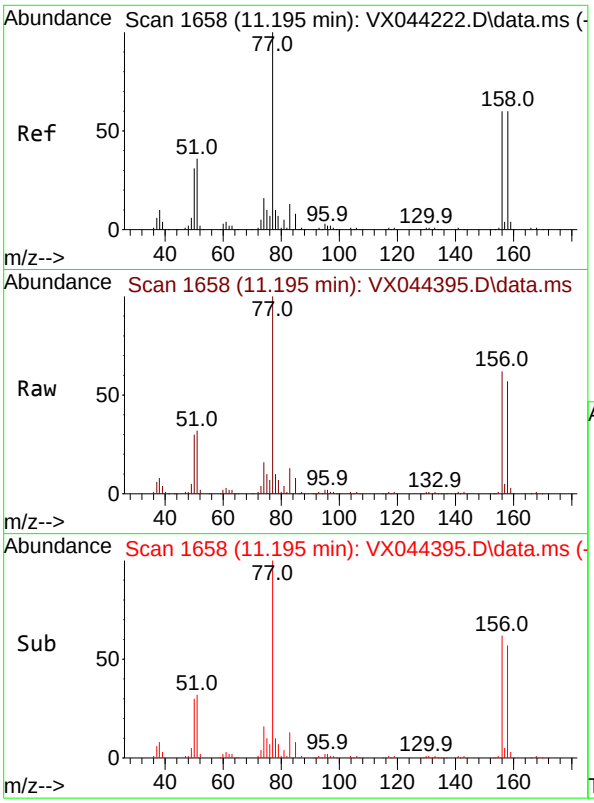


#76
1,2,3-Trichloropropane
Concen: 62.293 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 128225

Ion	Ratio	Lower	Upper
75	100		
77	33.2	20.9	62.7



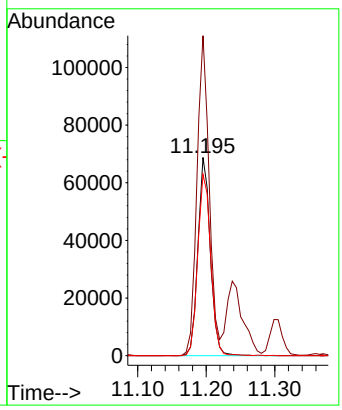


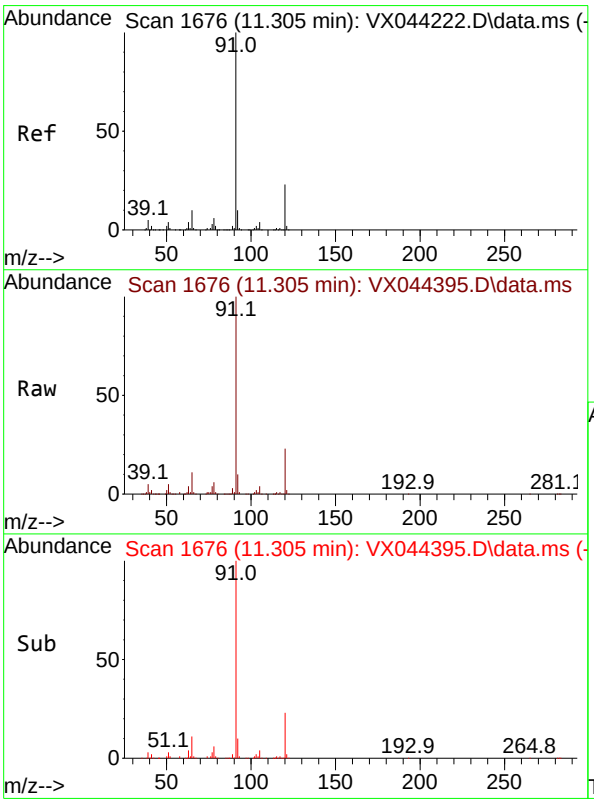
#77
Bromobenzene
Concen: 50.614 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 86623

Ion	Ratio	Lower	Upper
156	100		
77	159.2	82.6	247.8
158	96.0	48.8	146.4

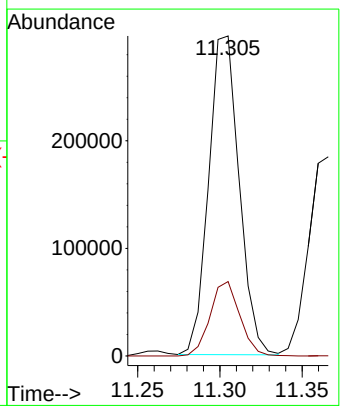


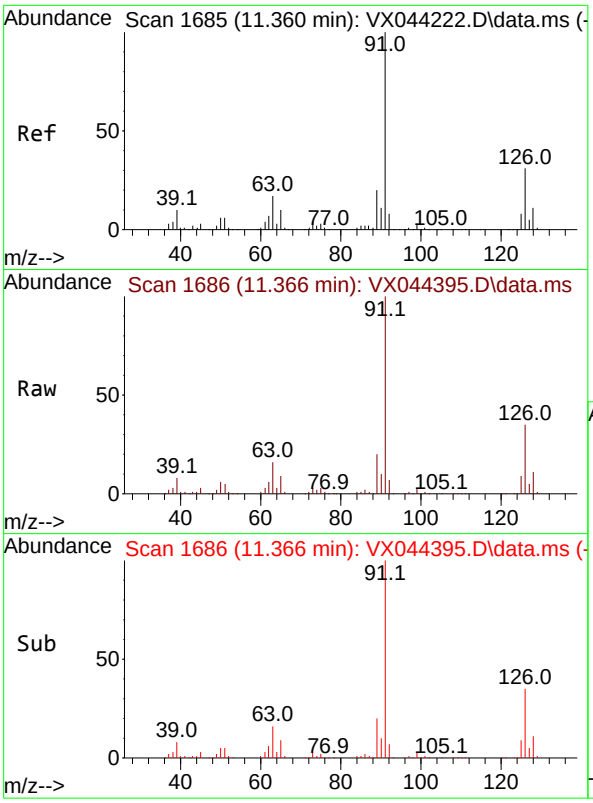


#78
n-propylbenzene
Concen: 49.070 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 91 Resp: 382775

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.0	33.0



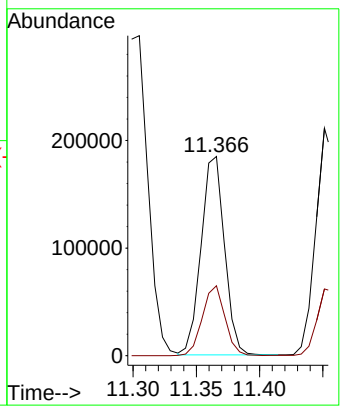


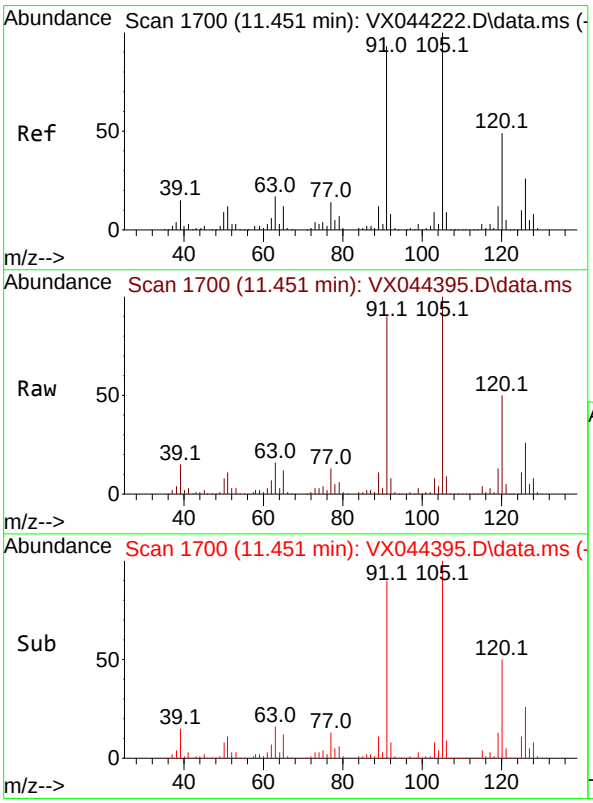
#79
2-Chlorotoluene
Concen: 47.227 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 238254

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.1

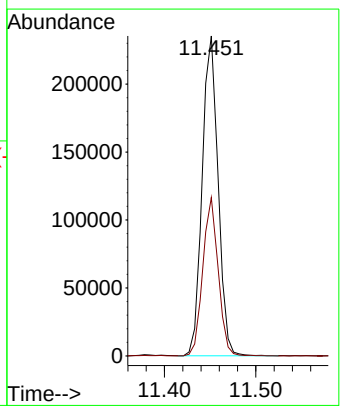


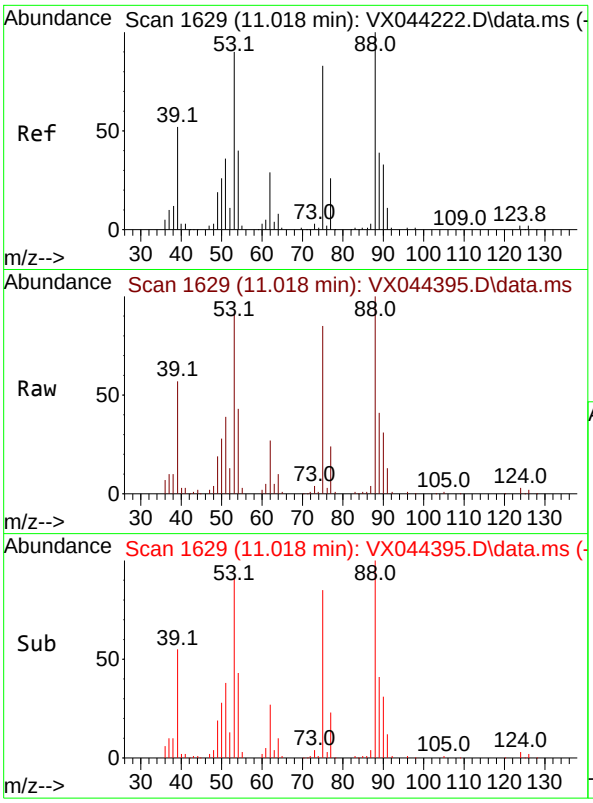


#80
1,3,5-Trimethylbenzene
Concen: 48.394 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:105 Resp: 283243

Ion	Ratio	Lower	Upper
105	100		
120	48.2	23.8	71.4



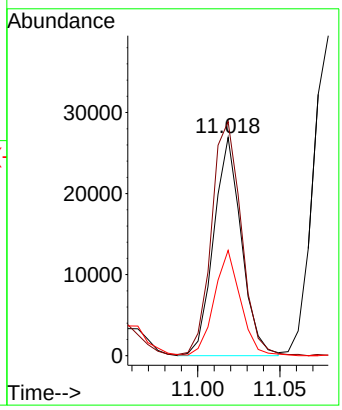


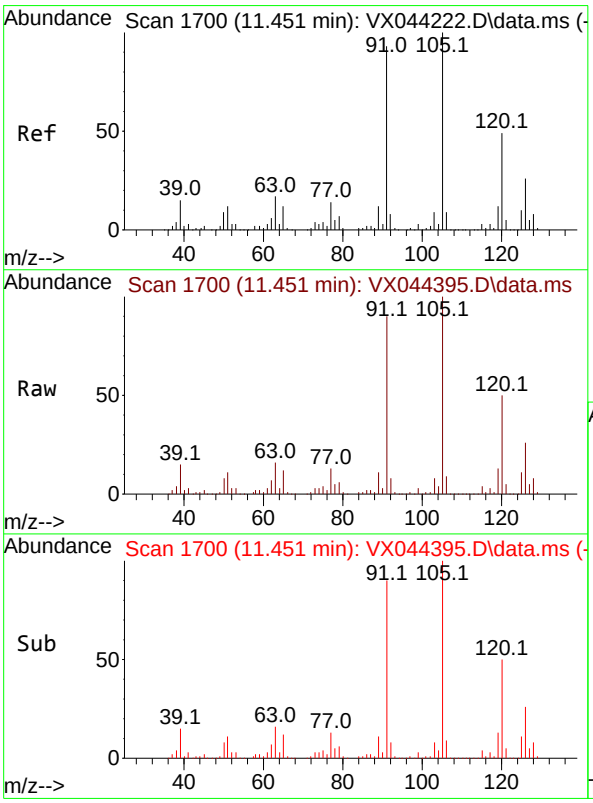
#81
trans-1,4-Dichloro-2-butene
Concen: 44.685 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 31620

Ion	Ratio	Lower	Upper
75	100		
53	115.1	93.6	140.4
89	45.6	37.3	55.9

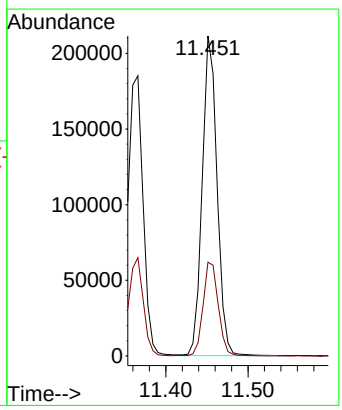


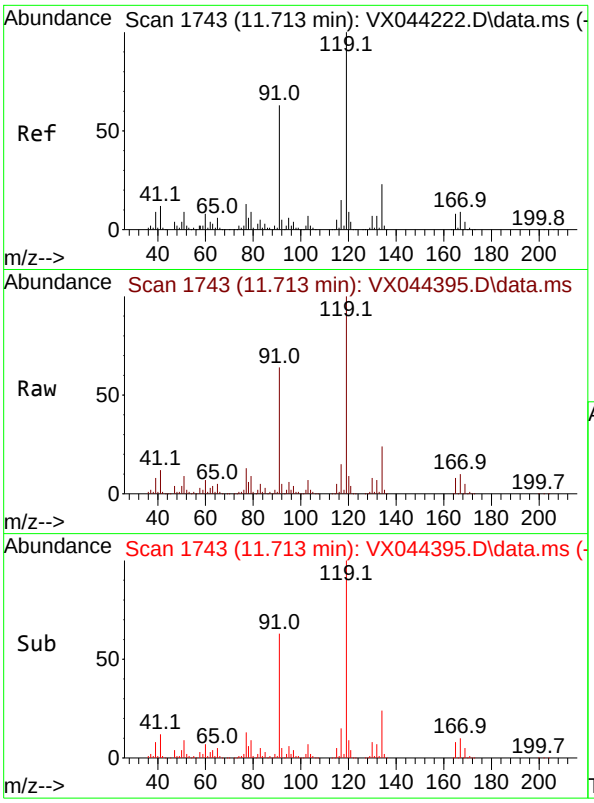


#82
4-Chlorotoluene
Concen: 47.419 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 91 Resp: 264905

Ion	Ratio	Lower	Upper
91	100		
126	30.1	14.5	43.5



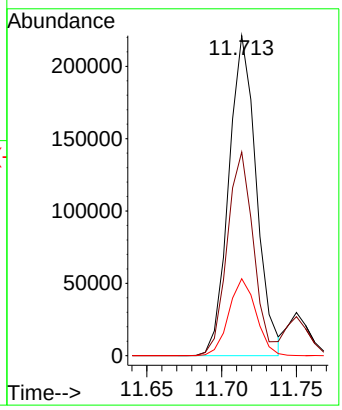


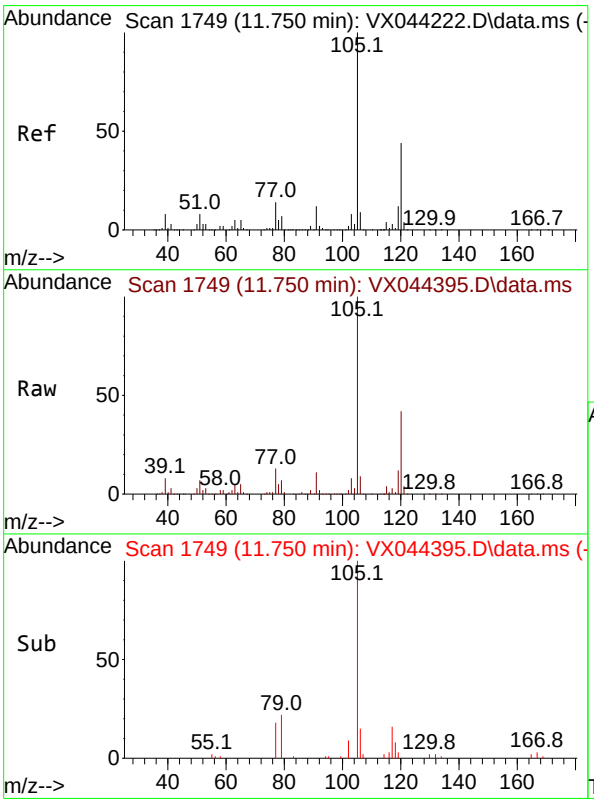
#83
tert-Butylbenzene
Concen: 48.916 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 282938

Ion	Ratio	Lower	Upper
119	100		
91	61.3	30.9	92.5
134	23.8	11.5	34.4

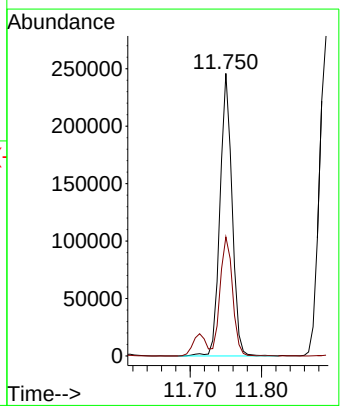


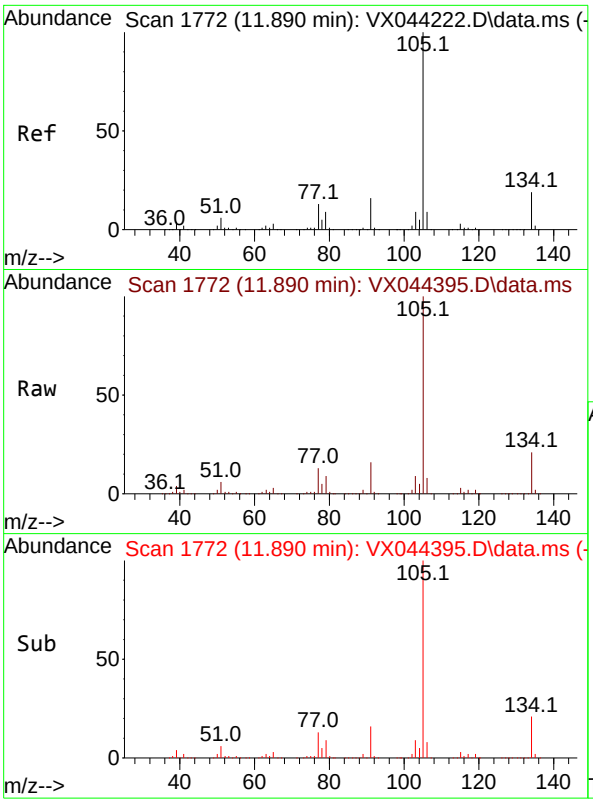


#84
1,2,4-Trimethylbenzene
Concen: 50.060 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:105 Resp: 287742

Ion	Ratio	Lower	Upper
105	100		
120	43.9	21.7	65.1



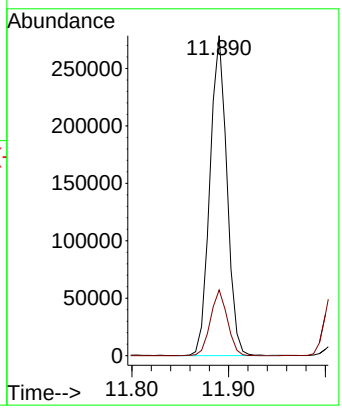


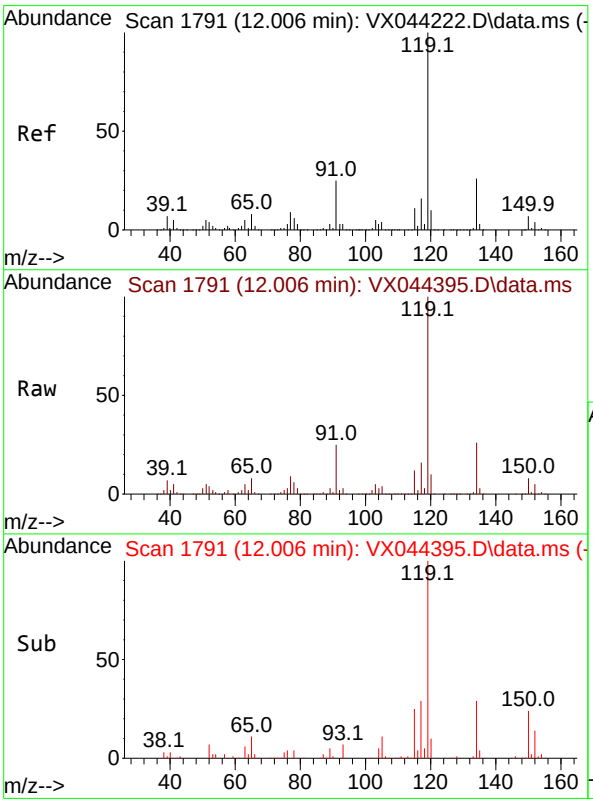
#85
sec-Butylbenzene
Concen: 48.287 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 339068

Ion	Ratio	Lower	Upper
105	100		
134	20.4	9.8	29.4

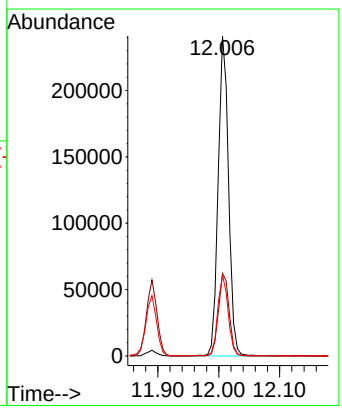


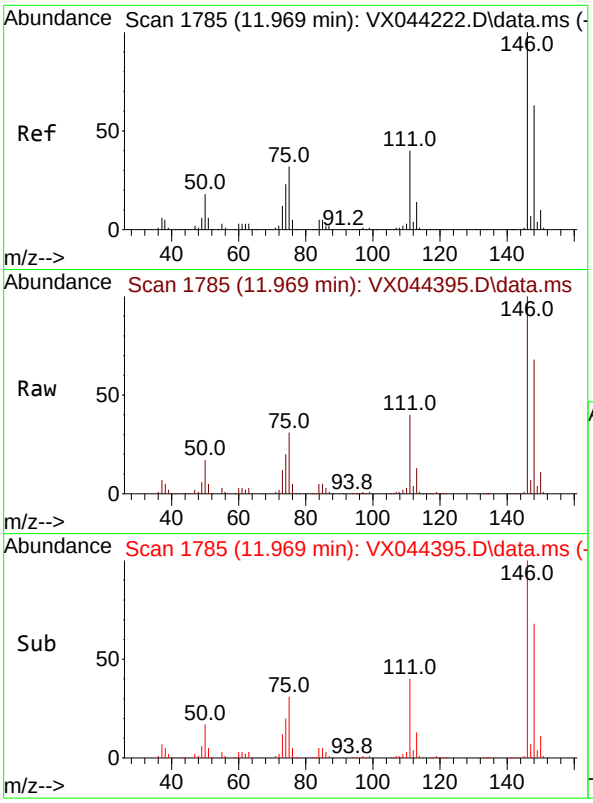


#86
p-Isopropyltoluene
Concen: 48.641 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:119 Resp: 284281

Ion	Ratio	Lower	Upper
119	100		
134	26.6	12.8	38.4
91	25.1	13.0	39.0



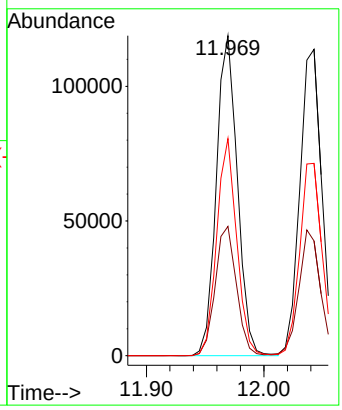


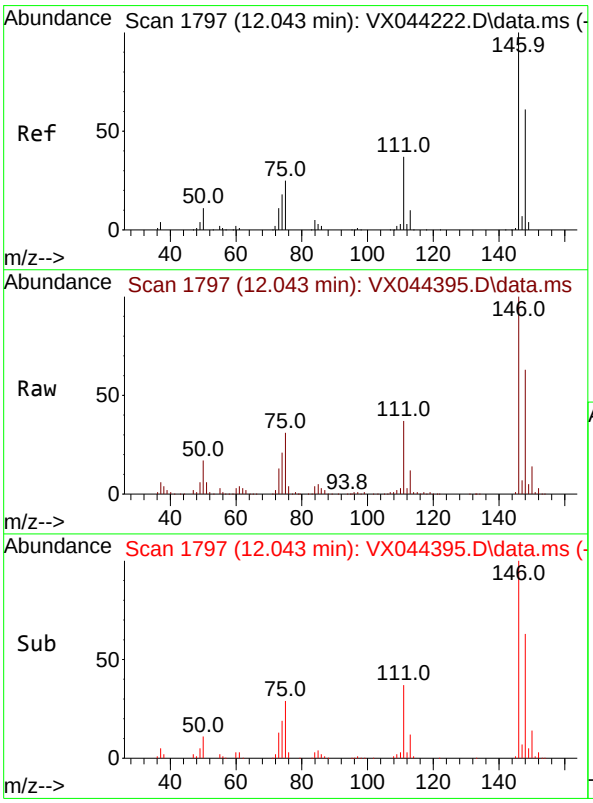
#87
1,3-Dichlorobenzene
Concen: 49.564 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 148170

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.4	64.2
148	64.5	31.7	95.1

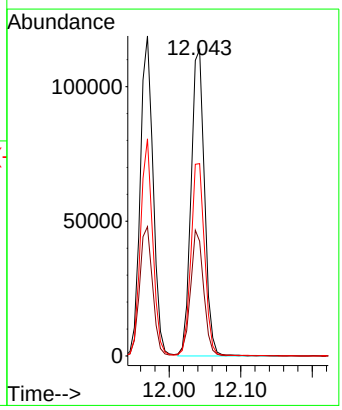


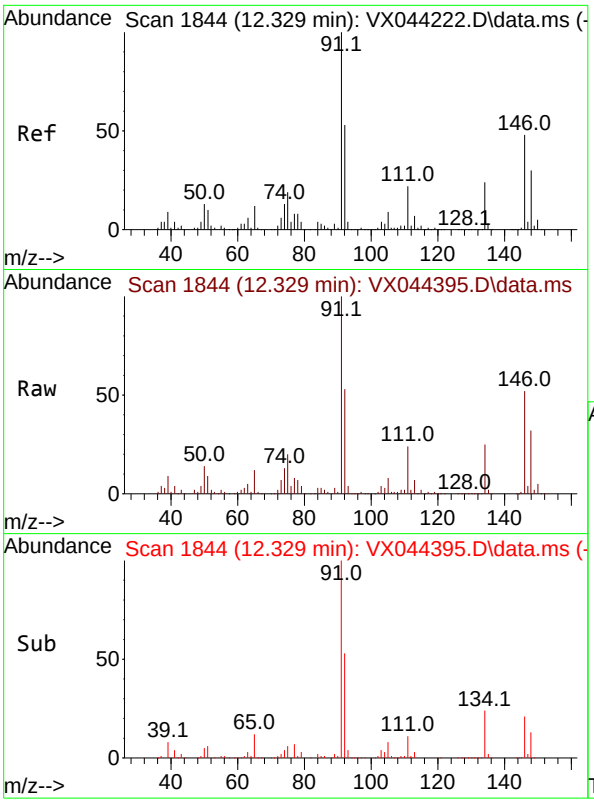


#88
1,4-Dichlorobenzene
Concen: 48.473 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:146 Resp: 148965

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.0	63.0
148	63.4	32.3	96.8



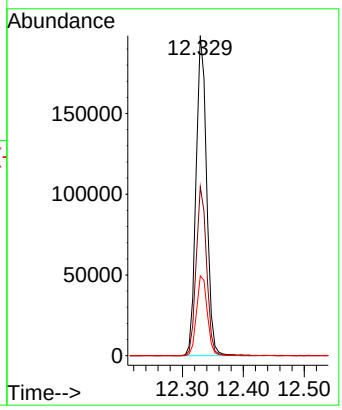


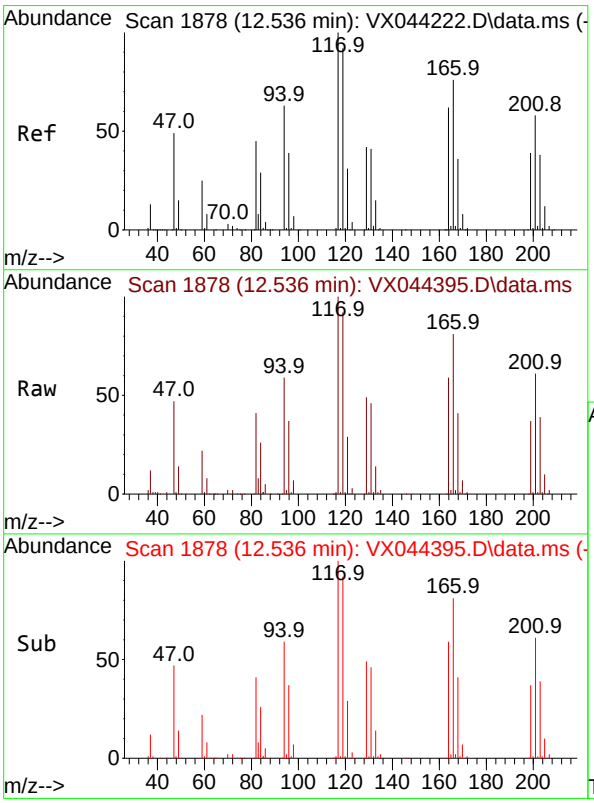
#89
n-Butylbenzene
Concen: 48.803 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 239841

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.6	79.7
134	25.3	12.6	37.8

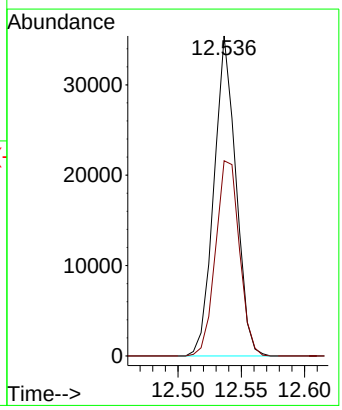


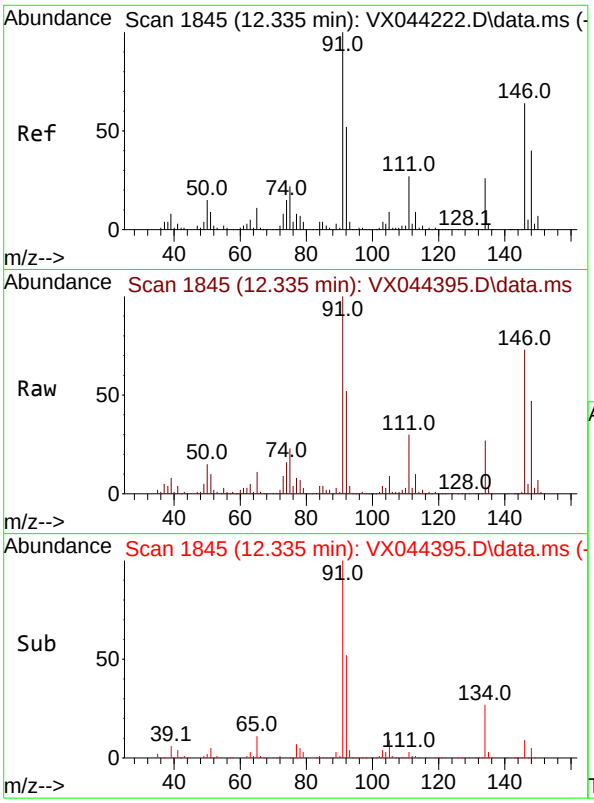


#90
Hexachloroethane
Concen: 50.075 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:117 Resp: 42721

Ion	Ratio	Lower	Upper
117	100		
201	66.2	31.4	94.2



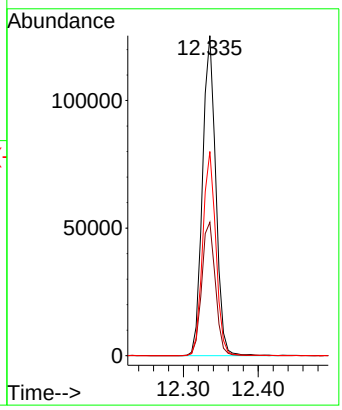


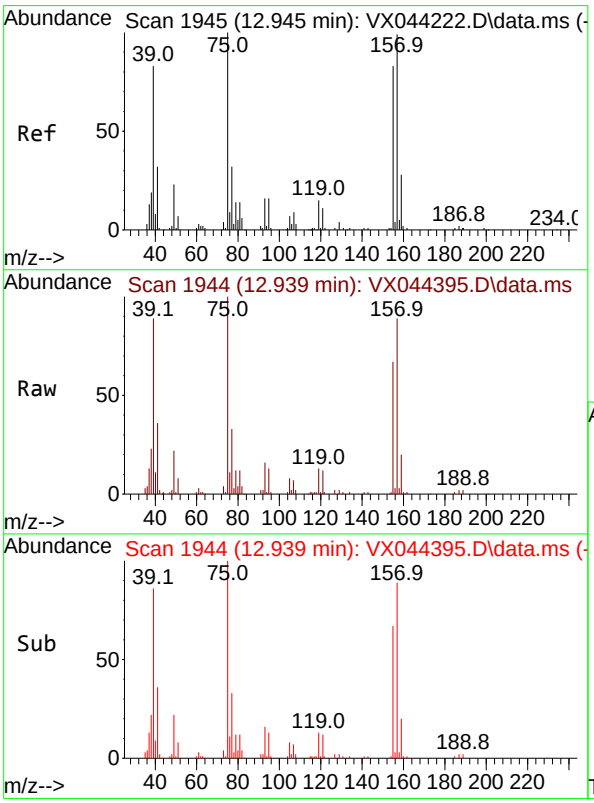
#91
1,2-Dichlorobenzene
Concen: 49.849 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 154736

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.4	64.3
148	63.2	31.6	95.0

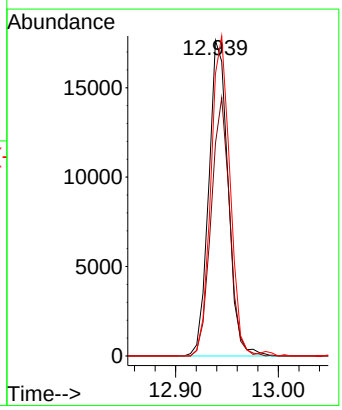


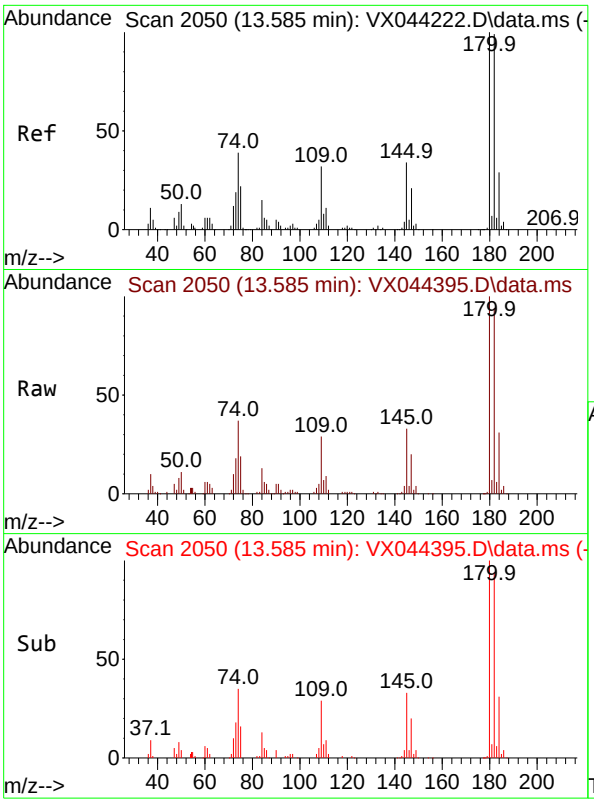


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.520 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion: 75 Resp: 23089

Ion	Ratio	Lower	Upper
75	100		
155	78.3	38.1	114.3
157	99.4	47.2	141.6



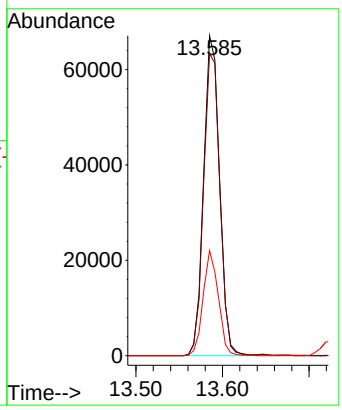


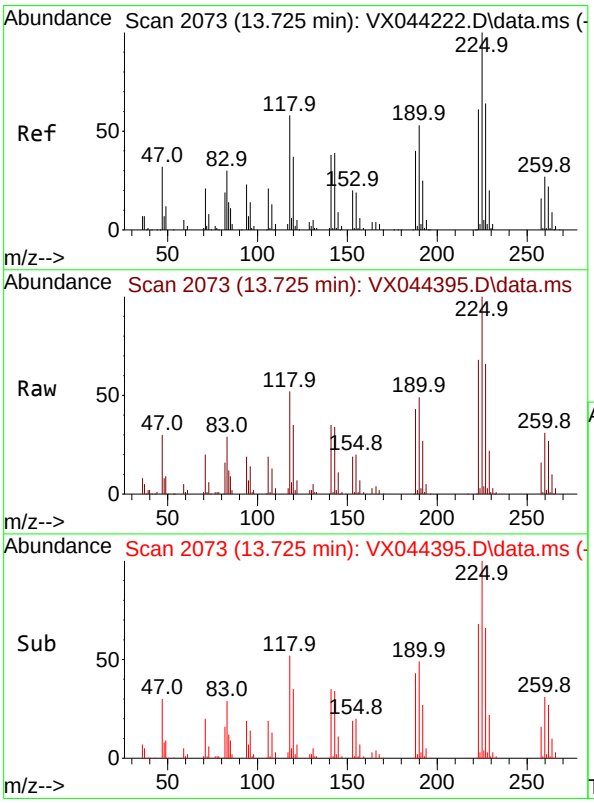
#93
1,2,4-Trichlorobenzene
Concen: 50.503 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 85945

Ion	Ratio	Lower	Upper
180	100		
182	96.6	48.0	144.2
145	31.4	16.6	49.7

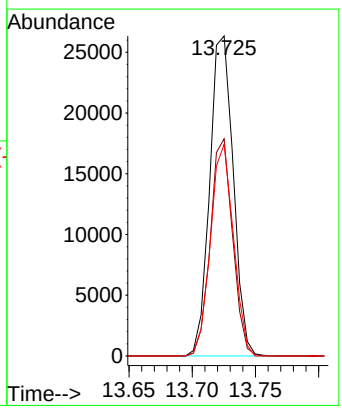


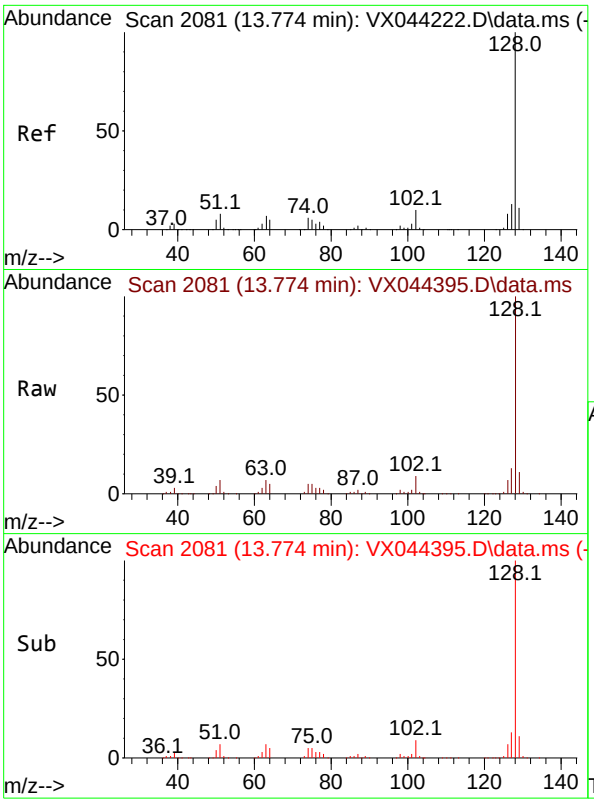


#94
Hexachlorobutadiene
Concen: 49.682 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:225 Resp: 34008

Ion	Ratio	Lower	Upper
225	100		
223	64.3	30.8	92.4
227	64.4	32.1	96.3



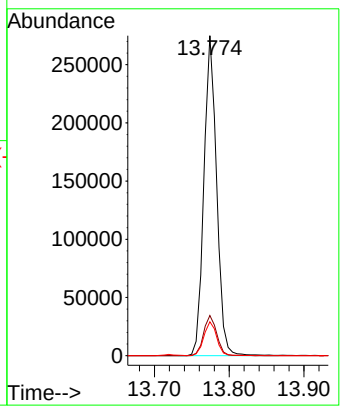


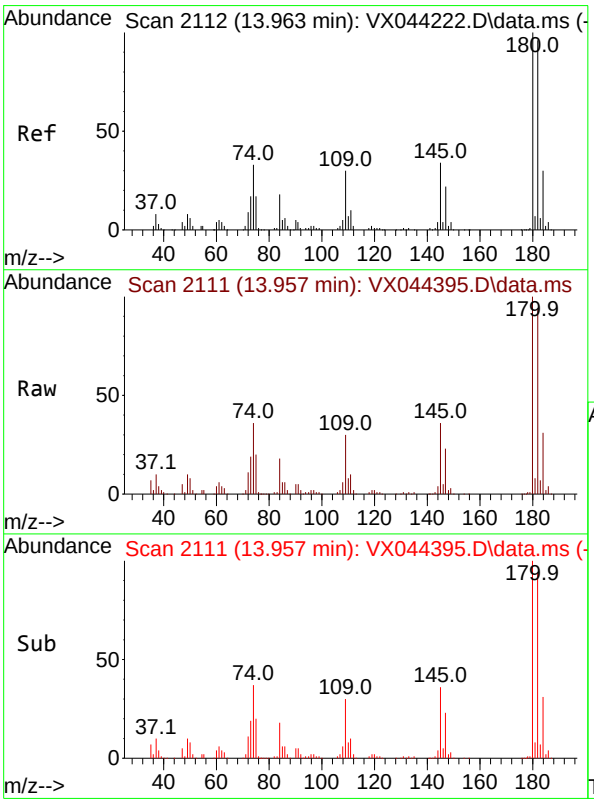
#95
Naphthalene
Concen: 48.907 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 324880

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.8	9.0	13.4

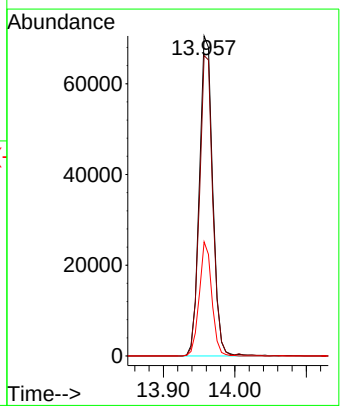




#96
1,2,3-Trichlorobenzene
Concen: 50.326 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044395.D
Acq: 18 Dec 2024 19:52

Tgt Ion:180 Resp: 90839

Ion	Ratio	Lower	Upper
180	100		
182	93.6	48.0	144.0
145	33.5	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	136445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	226018	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	197543	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95339	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	114063	47.679	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.360%			
35) Dibromofluoromethane	5.379	113	88578	56.586	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.180%			
50) Toluene-d8	8.647	98	297779	56.385	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.780%			
62) 4-Bromofluorobenzene	11.079	95	102676	55.640	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.280%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	116500	55.219	ug/l	95
3) Chloromethane	1.294	50	106640	52.856	ug/l	99
4) Vinyl Chloride	1.374	62	108930	51.825	ug/l	96
5) Bromomethane	1.593	94	72530	48.640	ug/l	100
6) Chloroethane	1.666	64	64589	49.350	ug/l	100
7) Trichlorofluoromethane	1.867	101	202222	49.144	ug/l	98
8) Diethyl Ether	2.136	74	65414	46.573	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	92304	55.436	ug/l	97
10) Methyl Iodide	2.441	142	117927	53.737	ug/l	96
11) Tert butyl alcohol	2.995	59	69873	207.237	ug/l	99
12) 1,1-Dichloroethene	2.306	96	85110	55.650	ug/l	93
13) Acrolein	2.239	56	105437	216.034	ug/l	99
14) Allyl chloride	2.654	41	131432	51.595	ug/l	96
15) Acrylonitrile	3.069	53	228880	245.064	ug/l	99
16) Acetone	2.386	43	198245	203.262	ug/l	97
17) Carbon Disulfide	2.502	76	150886	51.902	ug/l	100
18) Methyl Acetate	2.703	43	122242	48.611	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	285547	47.845	ug/l	98
20) Methylene Chloride	2.782	84	94061	51.347	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	85292	52.474	ug/l	96
22) Diisopropyl ether	3.764	45	281255	49.031	ug/l	95
23) Vinyl Acetate	3.721	43	1209209	259.287	ug/l	99
24) 1,1-Dichloroethane	3.605	63	164103	51.322	ug/l	98
25) 2-Butanone	4.562	43	312065	225.066	ug/l	97
26) 2,2-Dichloropropane	4.471	77	135023	51.979	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	103072	49.931	ug/l	97
28) Bromochloromethane	4.891	49	75463	48.128	ug/l	100
29) Tetrahydrofuran	5.001	42	202559	227.599	ug/l	99
30) Chloroform	5.086	83	172568	48.035	ug/l	98
31) Cyclohexane	5.458	56	136432	52.839	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	149993	50.298	ug/l	99
36) 1,1-Dichloropropene	5.684	75	111706	55.205	ug/l	98
37) Ethyl Acetate	4.715	43	125607	50.217	ug/l	99
38) Carbon Tetrachloride	5.672	117	120478	55.304	ug/l	96
39) Methylcyclohexane	7.373	83	146379	60.512	ug/l	97
40) Benzene	6.031	78	345635	56.259	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	66821	50.310	ug/l		96
42) 1,2-Dichloroethane	6.080	62	132516	52.362	ug/l		97
43) Isopropyl Acetate	6.342	43	199677	51.076	ug/l		98
44) Trichloroethene	7.117	130	87763	57.285	ug/l		98
45) 1,2-Dichloropropane	7.427	63	83393	53.131	ug/l		98
46) Dibromomethane	7.580	93	67796	55.676	ug/l		95
47) Bromodichloromethane	7.818	83	118614	56.402	ug/l		100
48) Methyl methacrylate	7.690	41	94040	49.554	ug/l		95
49) 1,4-Dioxane	7.665	88	28510	906.120	ug/l	#	82
51) 4-Methyl-2-Pentanone	8.574	43	647258	257.494	ug/l		99
52) Toluene	8.714	92	208798	54.120	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	116841	51.640	ug/l		95
54) cis-1,3-Dichloropropene	8.360	75	130320	56.913	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	84487	55.124	ug/l		98
56) Ethyl methacrylate	9.116	69	130175	53.800	ug/l		98
57) 1,3-Dichloropropane	9.305	76	143590	53.824	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	307620	252.070	ug/l		99
59) 2-Hexanone	9.427	43	467347	256.860	ug/l		97
60) Dibromochloromethane	9.519	129	86207	52.901	ug/l		99
61) 1,2-Dibromoethane	9.604	107	86930	55.721	ug/l		99
64) Tetrachloroethene	9.269	164	74735	57.001	ug/l		96
65) Chlorobenzene	10.079	112	234513	55.402	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	77487	56.959	ug/l		98
67) Ethyl Benzene	10.189	91	401792	54.936	ug/l		99
68) m/p-Xylenes	10.299	106	308013	114.771	ug/l		94
69) o-Xylene	10.640	106	147688	54.389	ug/l		98
70) Styrene	10.653	104	251875	57.862	ug/l		96
71) Bromoform	10.799	173	52602	54.671	ug/l	#	98
73) Isopropylbenzene	10.957	105	390438	53.495	ug/l		100
74) N-amyl acetate	10.842	43	171638	50.885	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	132190	52.145	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	139014	65.305	ug/l		84
77) Bromobenzene	11.195	156	95489	53.953	ug/l		95
78) n-propylbenzene	11.299	91	441589	54.741	ug/l		98
79) 2-Chlorotoluene	11.360	91	267690	51.311	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	322510	53.284	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	35051	47.498	ug/l		98
82) 4-Chlorotoluene	11.451	91	305777	52.929	ug/l		99
83) tert-Butylbenzene	11.713	119	320615	53.600	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	327657	55.123	ug/l		98
85) sec-Butylbenzene	11.890	105	399310	54.989	ug/l		99
86) p-Isopropyltoluene	12.006	119	336593	55.691	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	172628	55.839	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	169778	53.422	ug/l		98
89) n-Butylbenzene	12.329	91	292244	57.503	ug/l		99
90) Hexachloroethane	12.536	117	50629	57.385	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	173478	54.042	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24124	49.022	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	104720	59.504	ug/l		100
94) Hexachlorobutadiene	13.725	225	43140	60.942	ug/l		97
95) Naphthalene	13.774	128	369385	53.772	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	108667	58.216	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

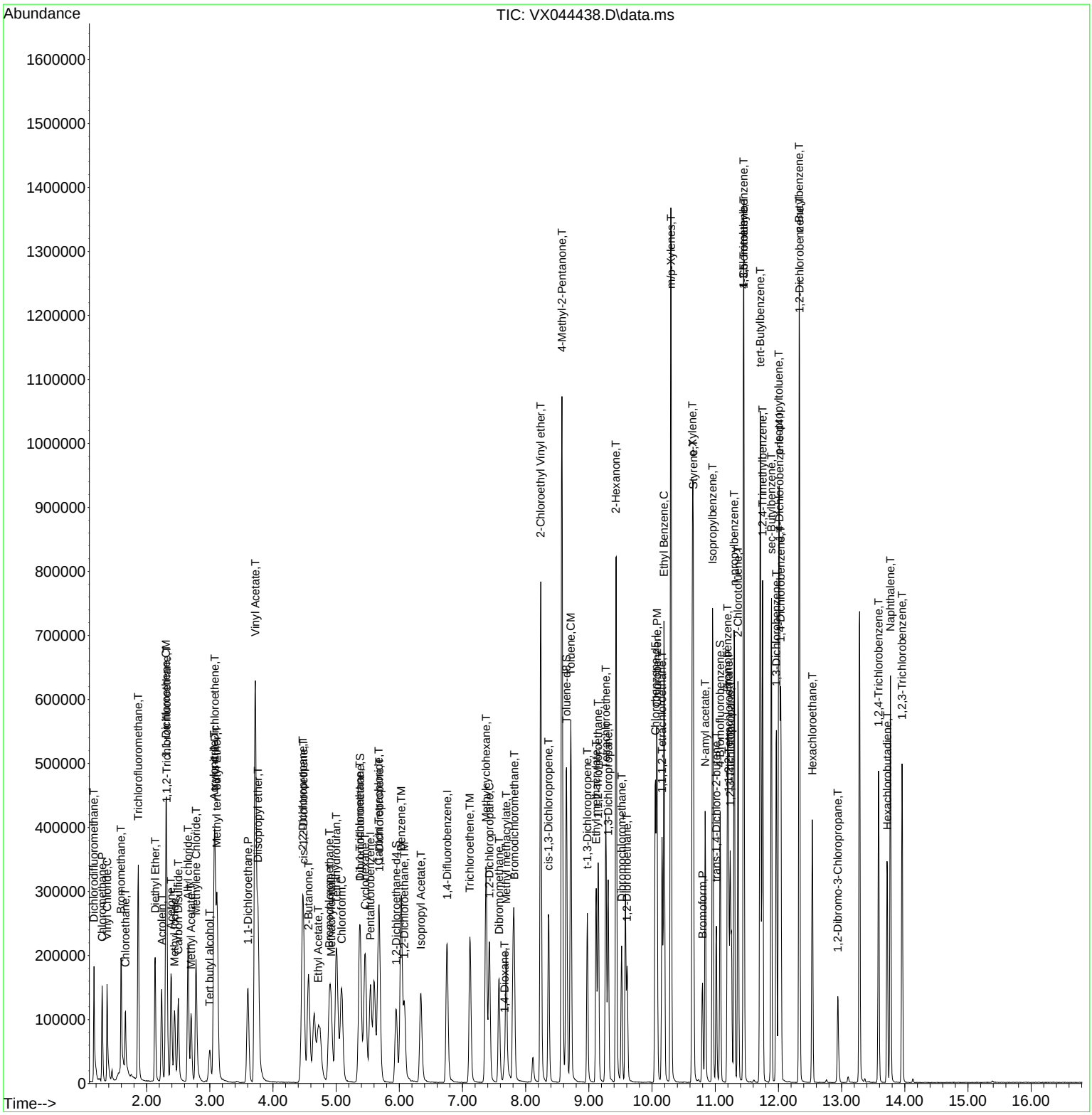
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

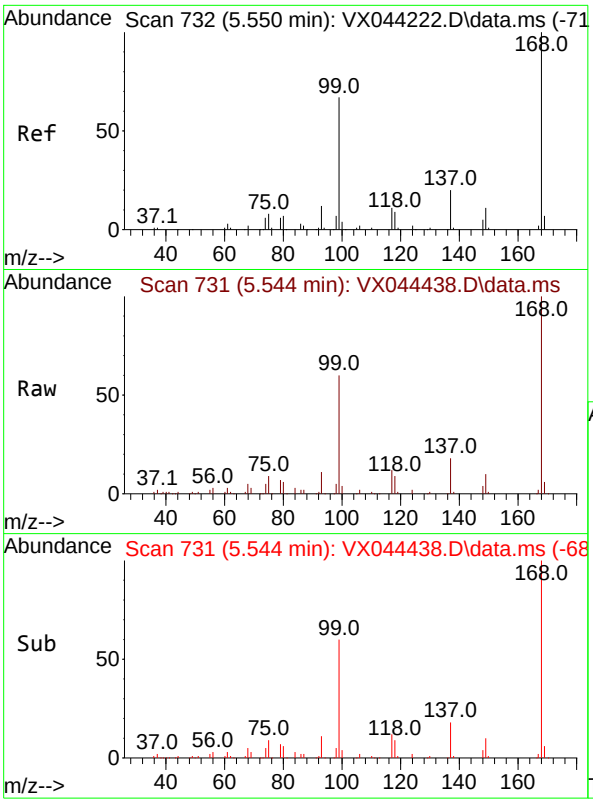
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044438.D
Acq On : 20 Dec 2024 09:16
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Dec 20 22:18:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



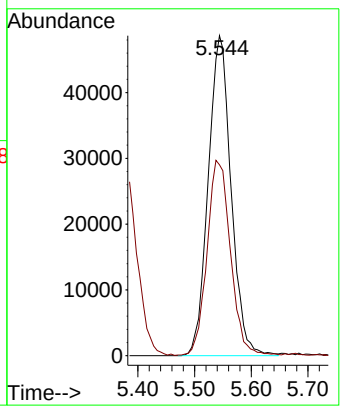


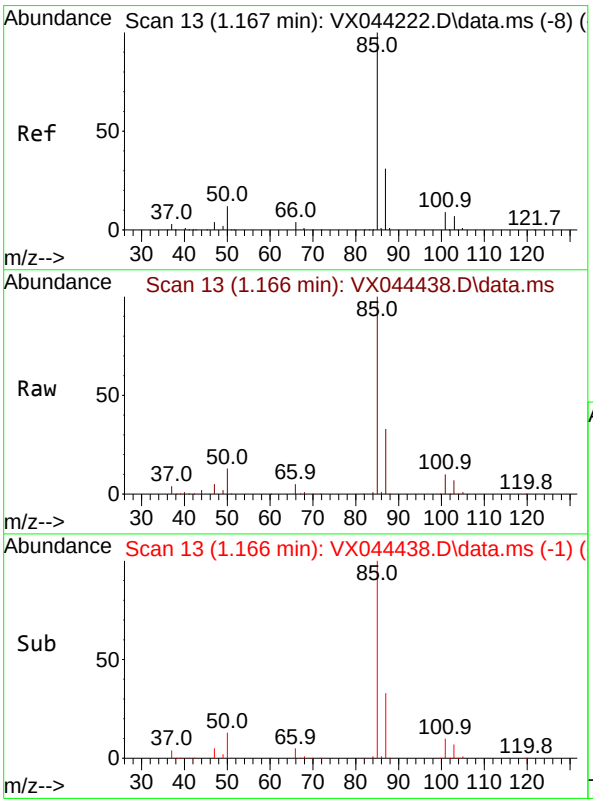
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 136445

Ion	Ratio	Lower	Upper
168	100		
99	59.5	53.4	80.0

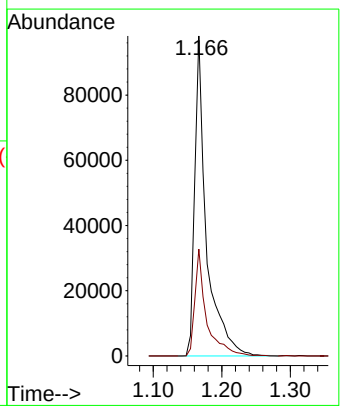


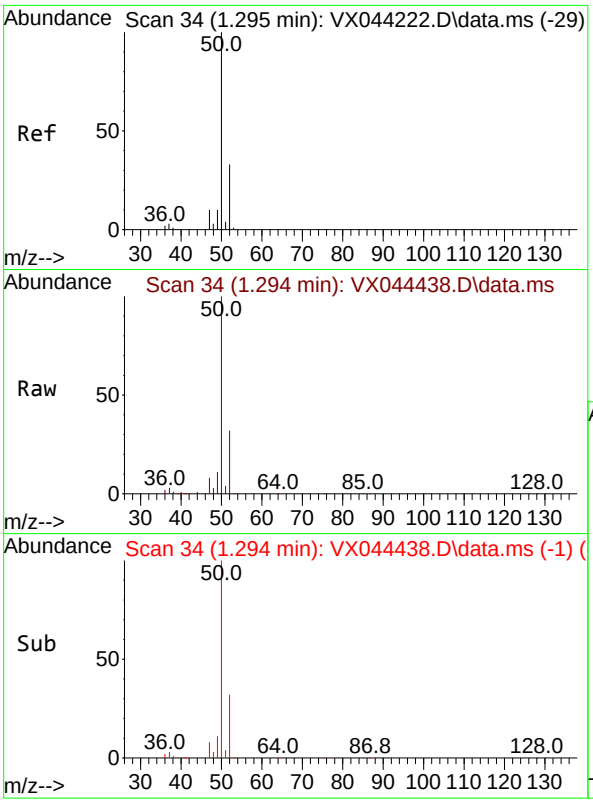


#2
Dichlorodifluoromethane
Concen: 55.219 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 85 Resp: 116500

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4



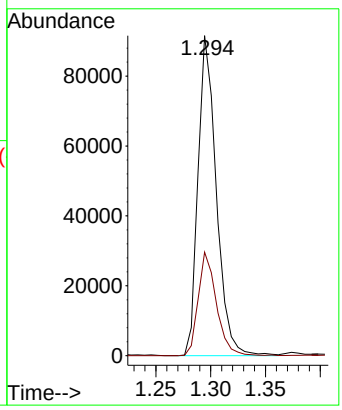


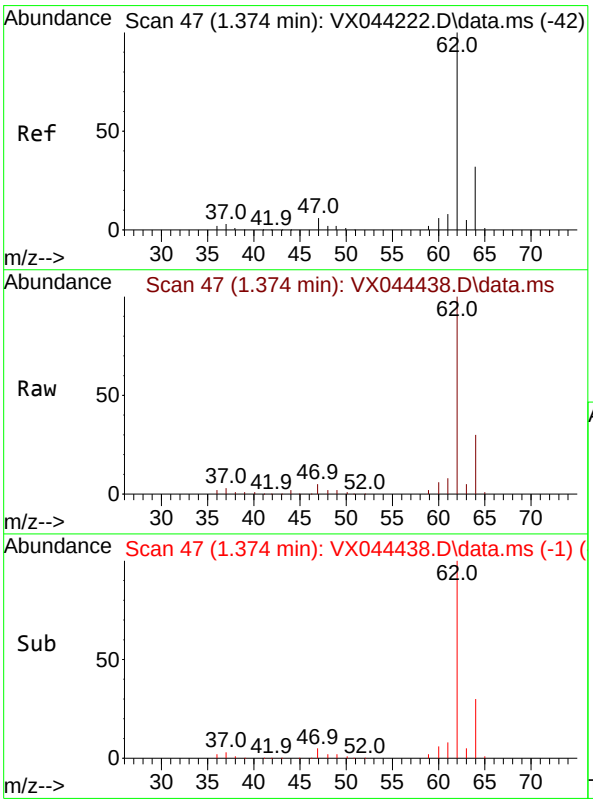
#3
Chloromethane
Concen: 52.856 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 106640

Ion	Ratio	Lower	Upper
50	100		
52	32.3	26.5	39.7

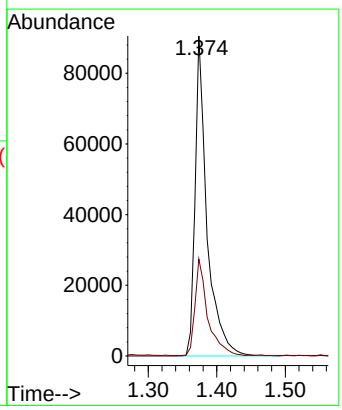


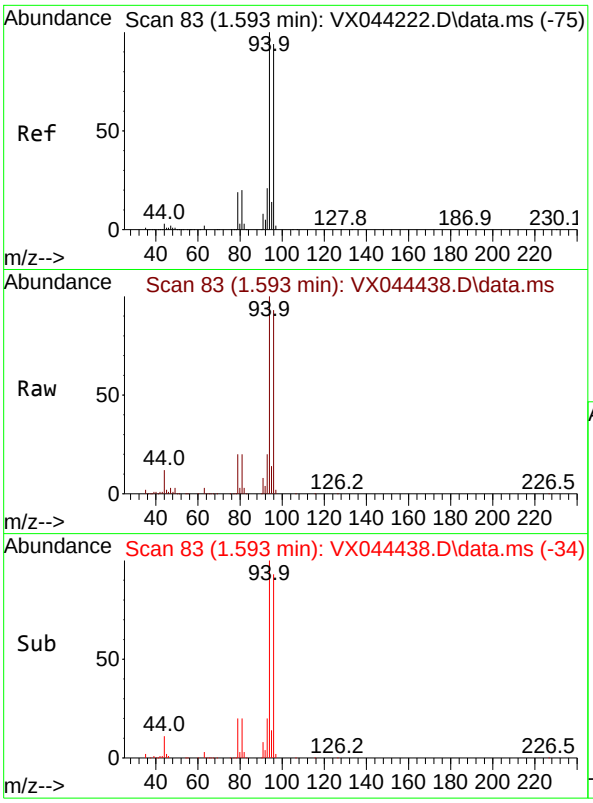


#4
Vinyl Chloride
Concen: 51.825 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 108930

Ion	Ratio	Lower	Upper
62	100		
64	30.1	25.7	38.5



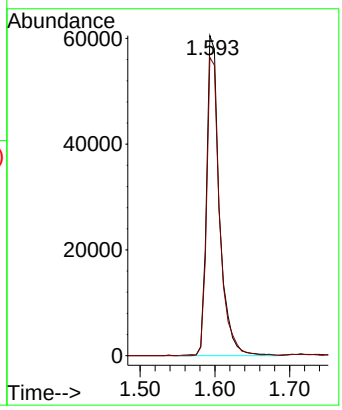


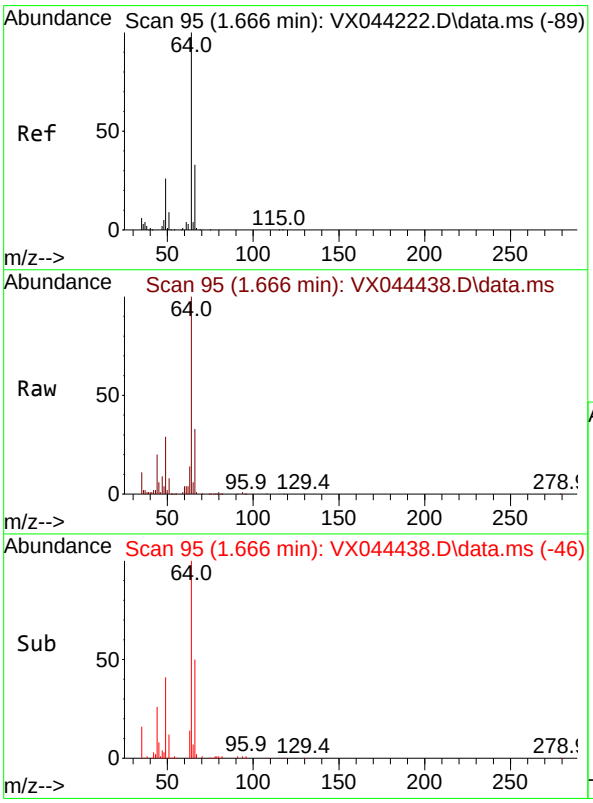
#5
Bromomethane
Concen: 48.640 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 72530

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.9	112.3

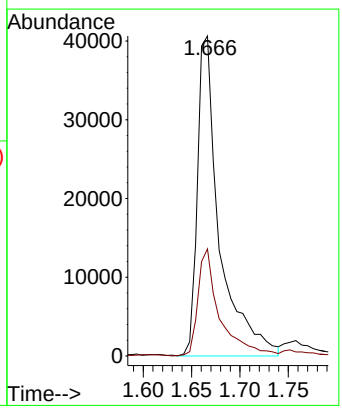


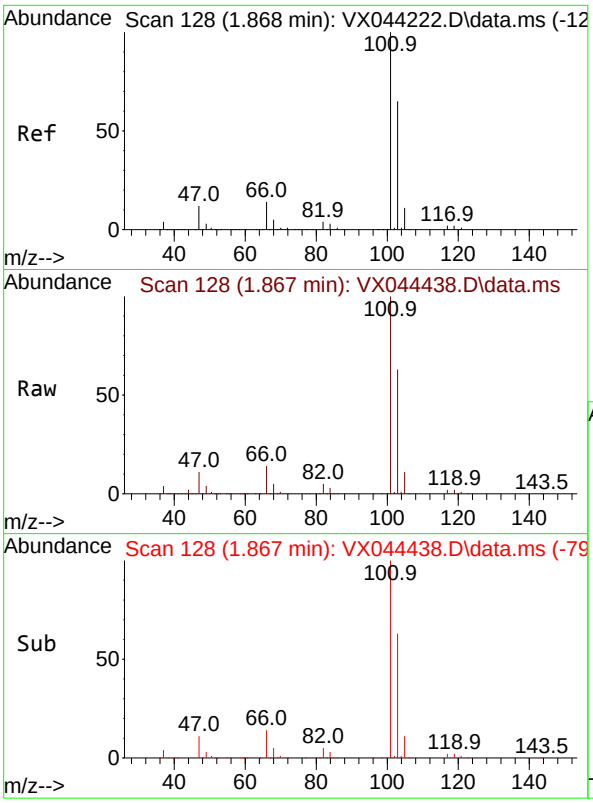


#6
Chloroethane
Concen: 49.350 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 64 Resp: 64589

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.6	39.8



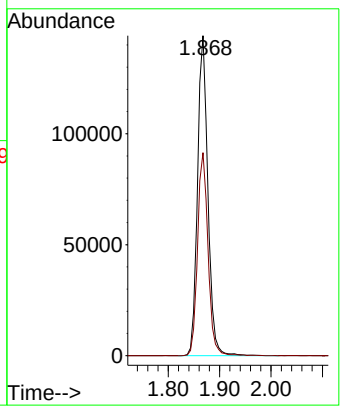


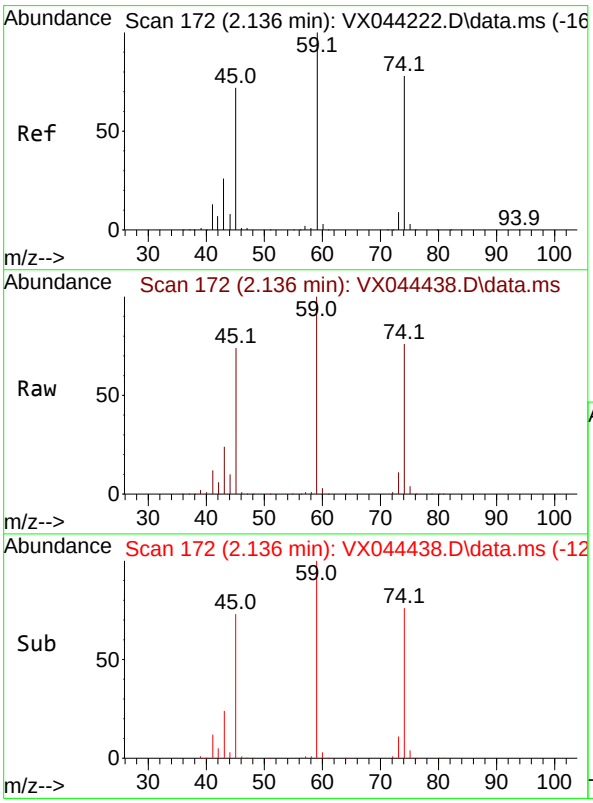
#7
Trichlorofluoromethane
Concen: 49.144 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 202222

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8

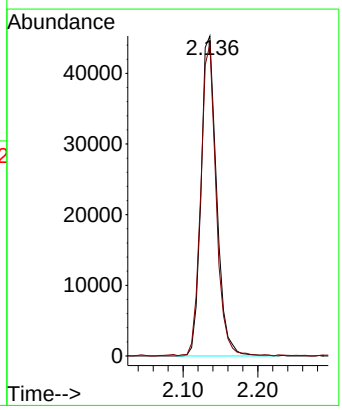


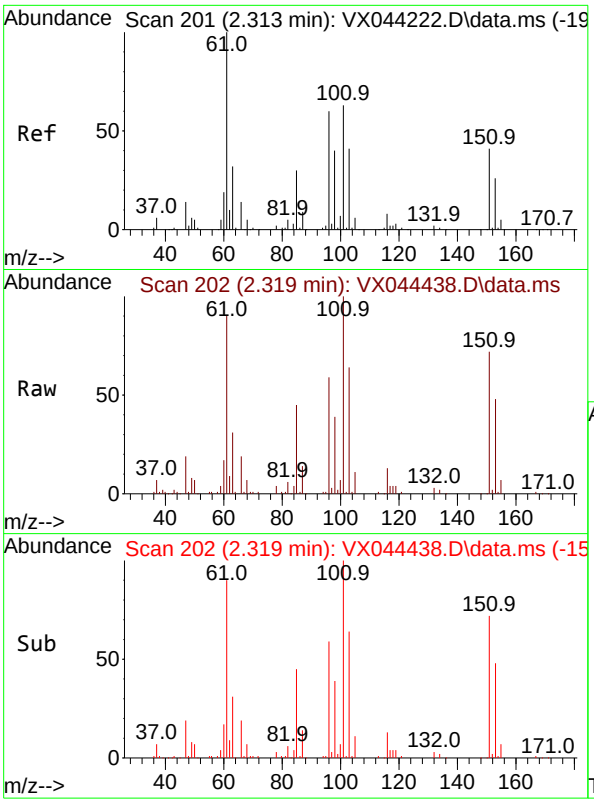


#8
Diethyl Ether
Concen: 46.573 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 74 Resp: 65414

Ion	Ratio	Lower	Upper
74	100		
45	96.6	48.4	145.0



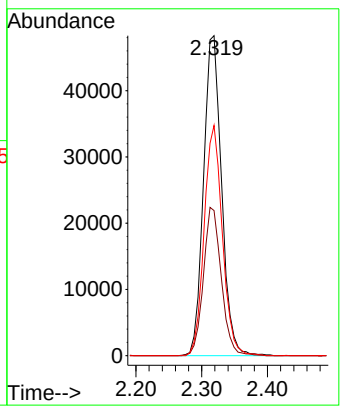


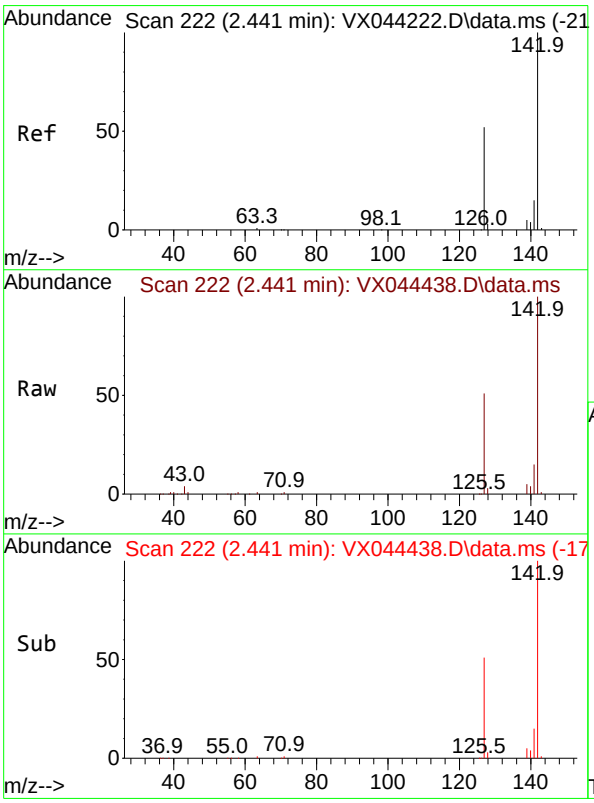
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.436 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 92304

Ion	Ratio	Lower	Upper
101	100		
85	46.0	38.5	57.7
151	72.5	55.8	83.6

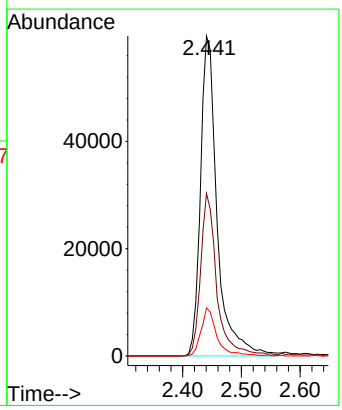


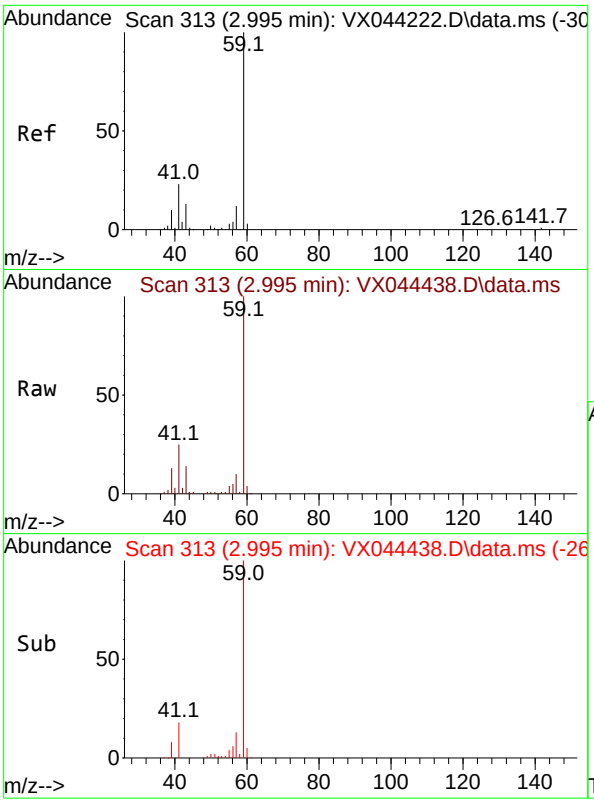


#10
Methyl Iodide
Concen: 53.737 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:142 Resp: 117927

Ion	Ratio	Lower	Upper
142	100		
127	49.2	41.8	62.8
141	14.2	11.5	17.3



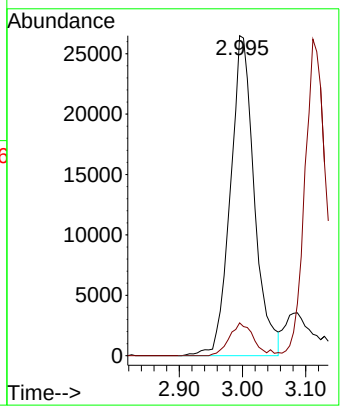


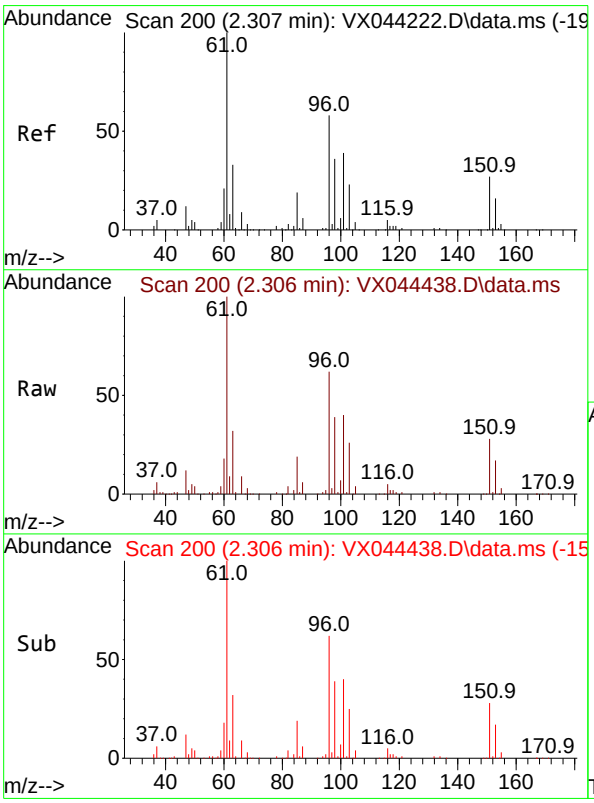
#11
Tert butyl alcohol
Concen: 207.237 ug/l
RT: 2.995 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 69873

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.8	13.2

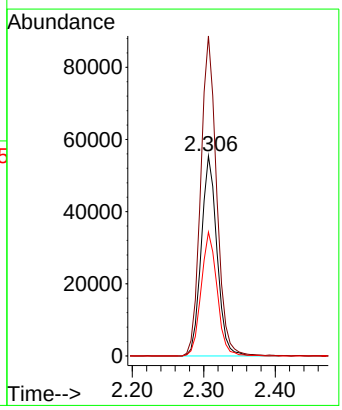


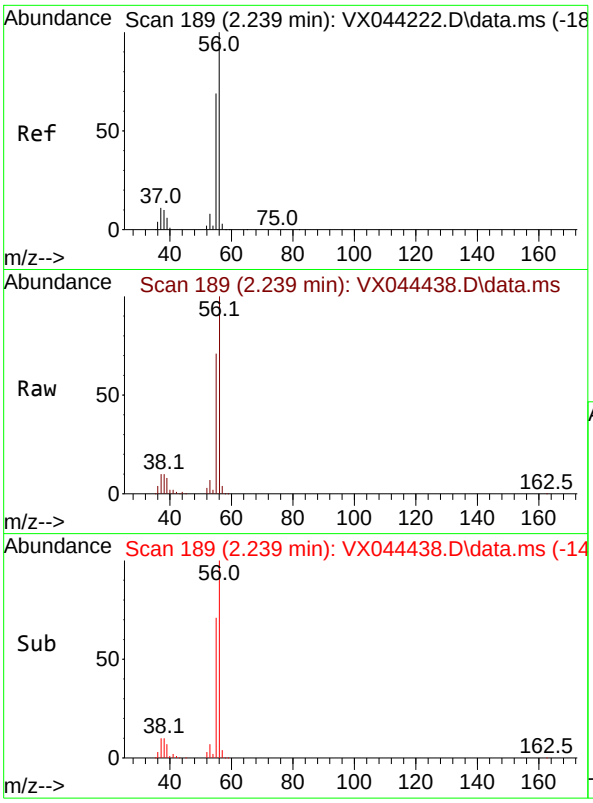


#12
1,1-Dichloroethene
Concen: 55.650 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 96 Resp: 85110

Ion	Ratio	Lower	Upper
96	100		
61	160.0	138.0	207.0
98	62.0	50.0	75.0



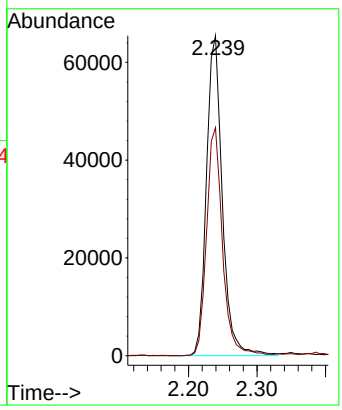


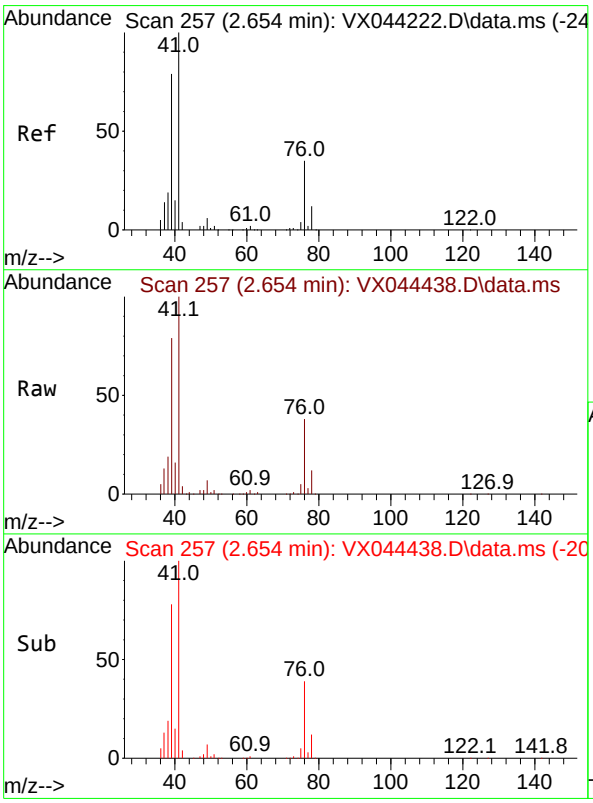
#13
Acrolein
Concen: 216.034 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 105437

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.6	84.8

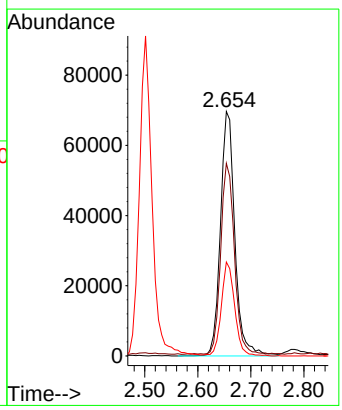


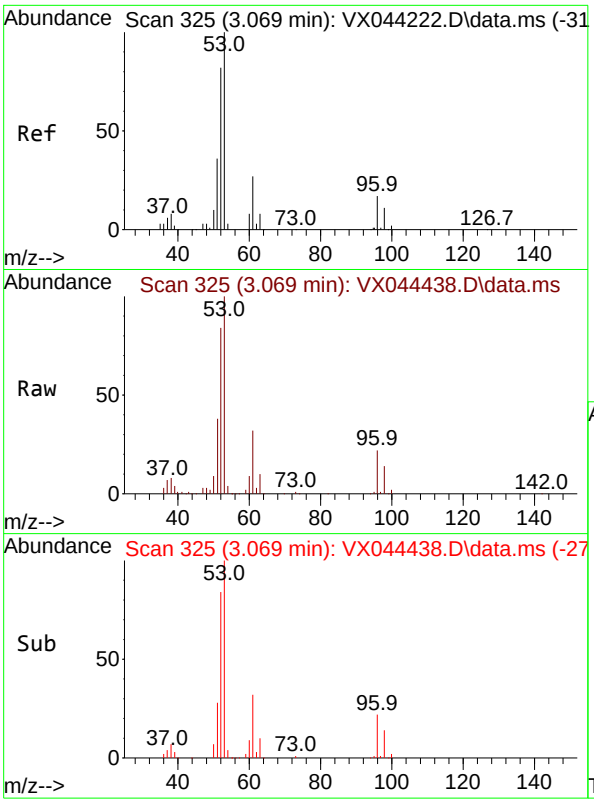


#14
Allyl chloride
Concen: 51.595 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 131432

Ion	Ratio	Lower	Upper
41	100		
39	73.8	61.9	92.9
76	35.5	27.4	41.2



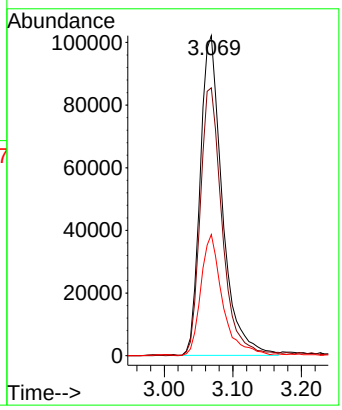


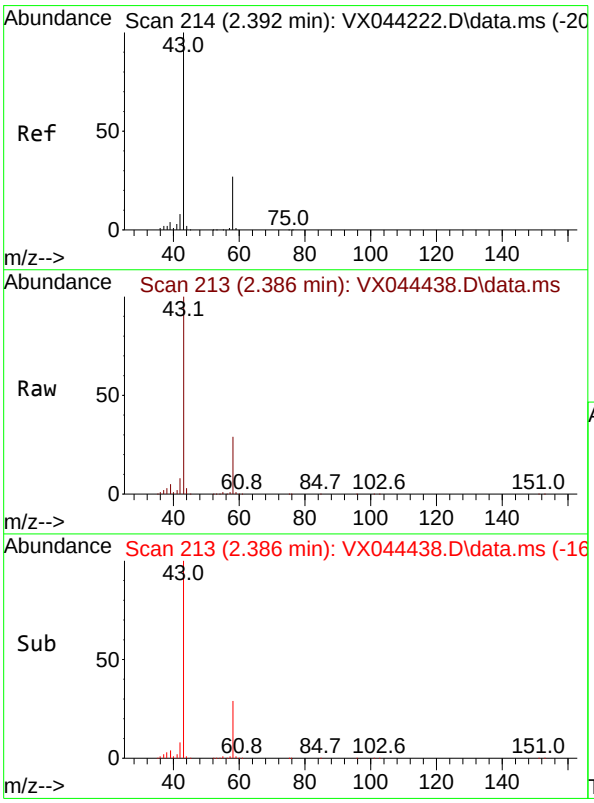
#15
Acrylonitrile
Concen: 245.064 ug/l
RT: 3.069 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 228880

Ion	Ratio	Lower	Upper
53	100		
52	83.6	67.4	101.0
51	37.1	30.3	45.5

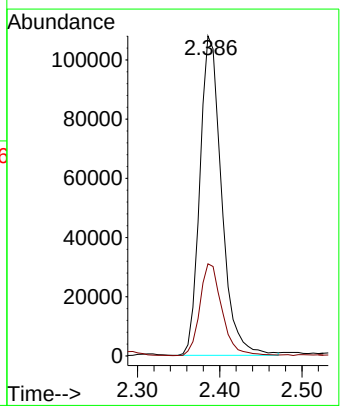


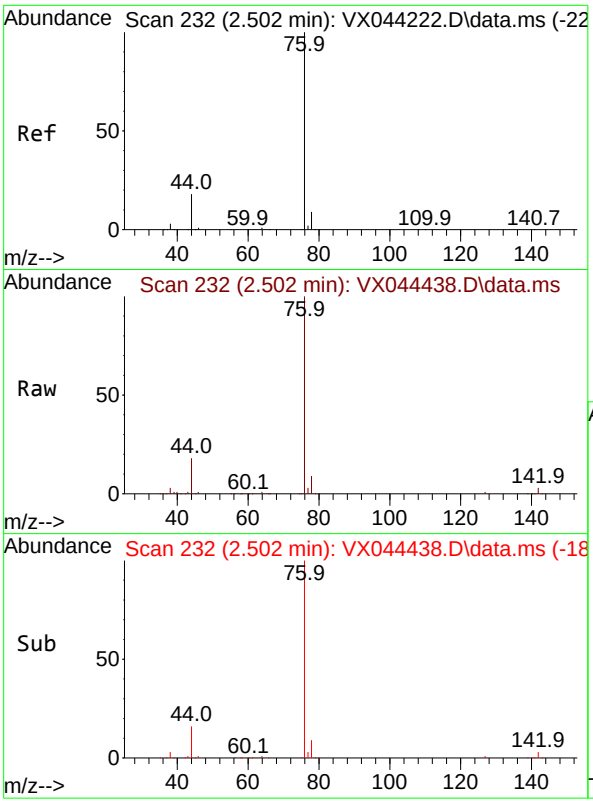


#16
Acetone
Concen: 203.262 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 198245

Ion	Ratio	Lower	Upper
43	100		
58	28.7	21.6	32.4



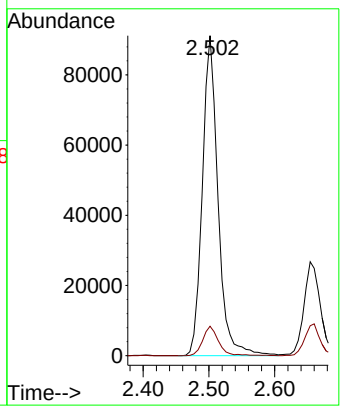


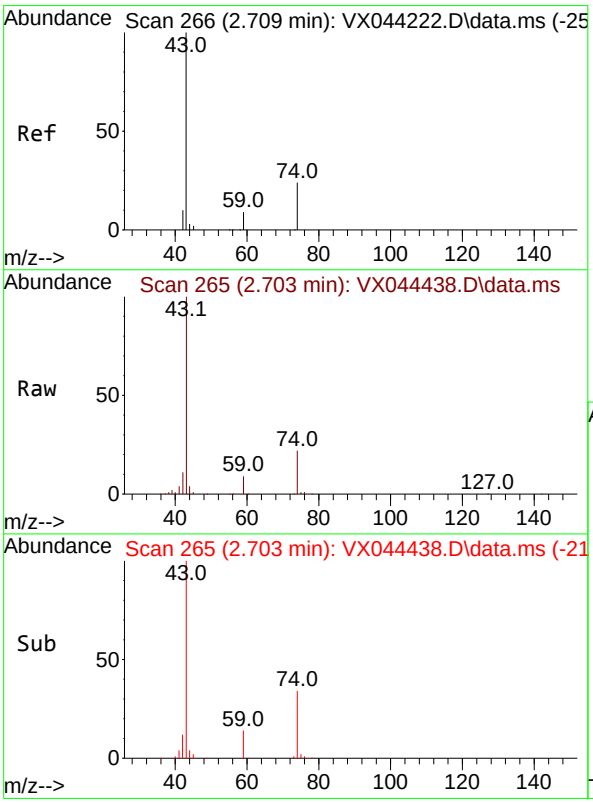
#17
Carbon Disulfide
Concen: 51.902 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 150886

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

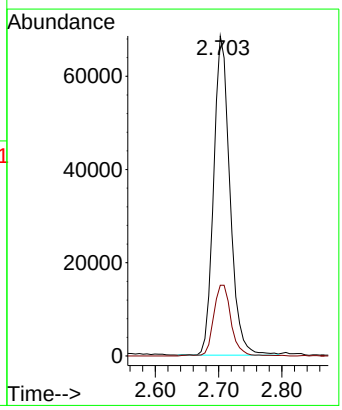


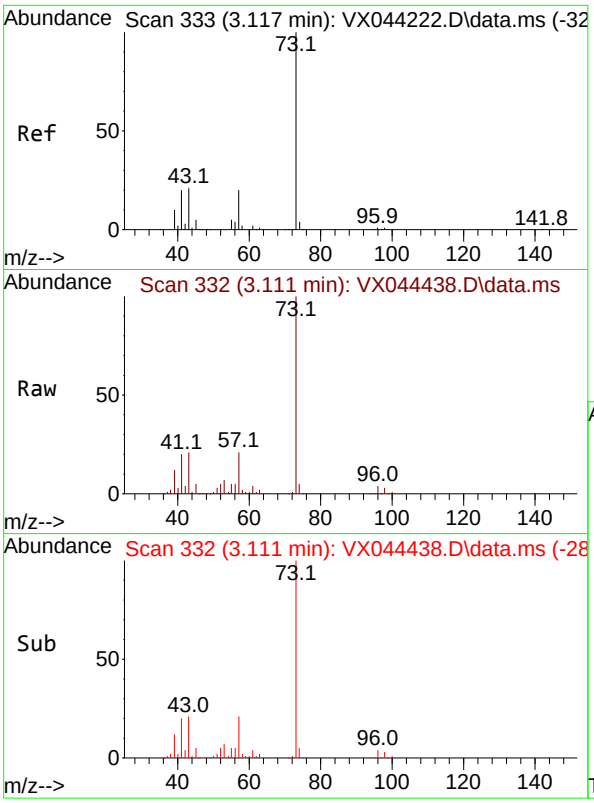


#18
Methyl Acetate
Concen: 48.611 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 122242

Ion	Ratio	Lower	Upper
43	100		
74	23.7	17.7	26.5



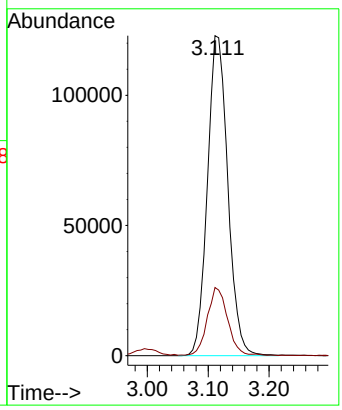


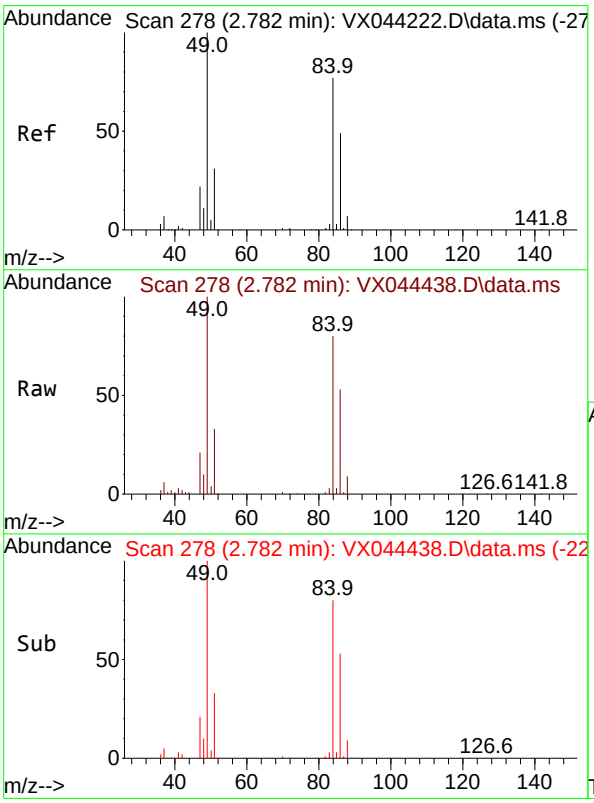
#19
Methyl tert-butyl Ether
Concen: 47.845 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 285547

Ion	Ratio	Lower	Upper
73	100		
57	21.2	16.2	24.4

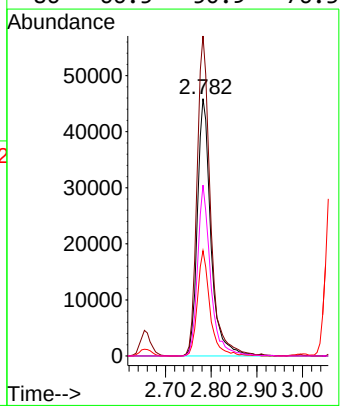


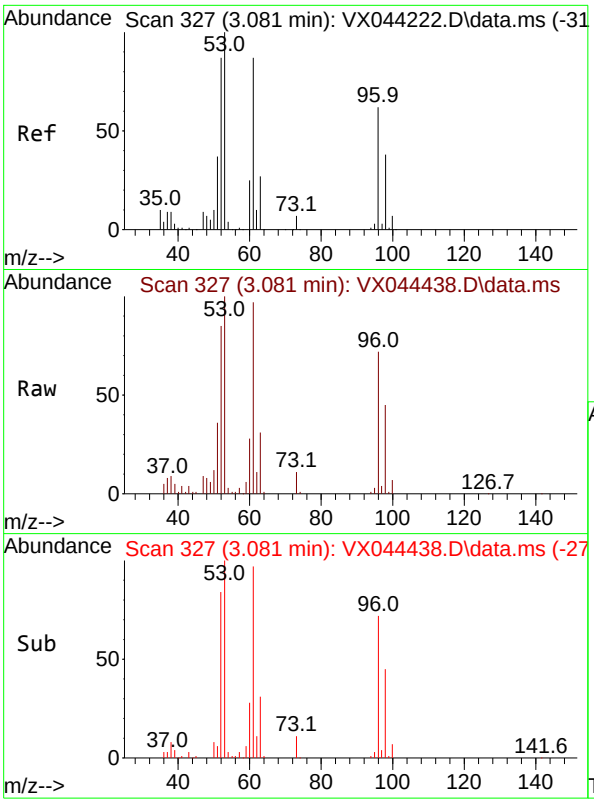


#20
Methylene Chloride
Concen: 51.347 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 84 Resp: 94061

Ion	Ratio	Lower	Upper
84	100		
49	124.4	104.2	156.4
51	40.9	32.2	48.4
86	66.5	50.9	76.3



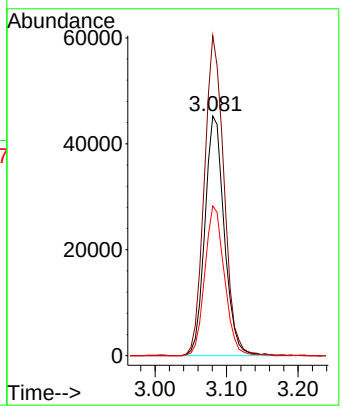


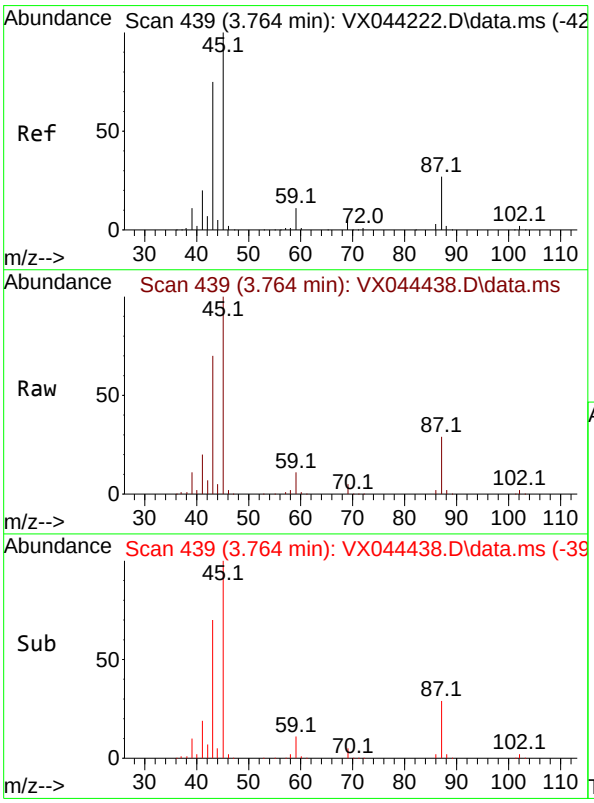
#21
trans-1,2-Dichloroethene
Concen: 52.474 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 85292

Ion	Ratio	Lower	Upper
96	100		
61	133.6	112.0	168.0
98	62.5	48.8	73.2

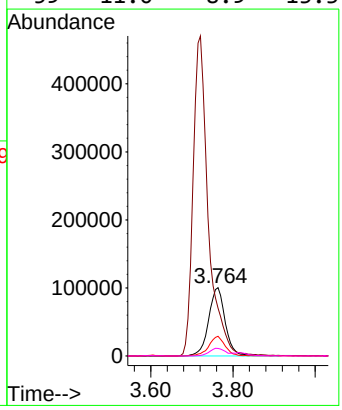


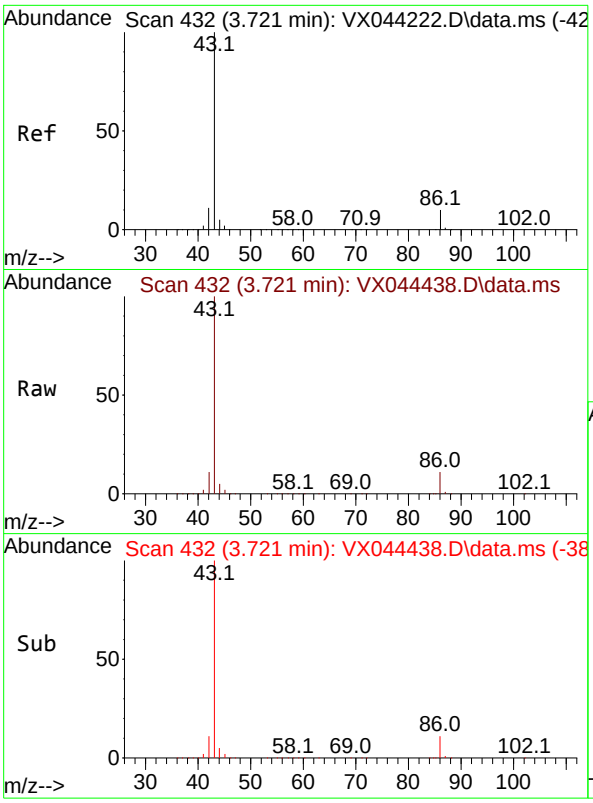


#22
Diisopropyl ether
Concen: 49.031 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 45 Resp: 281255

Ion	Ratio	Lower	Upper
45	100		
43	69.9	60.2	90.2
87	28.8	21.2	31.8
59	11.0	8.9	13.3



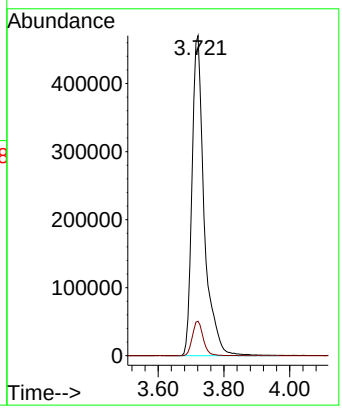


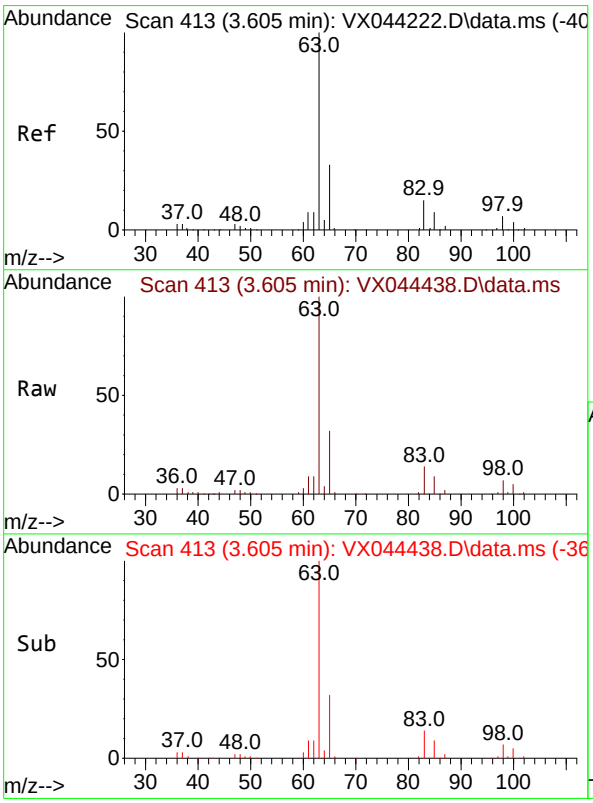
#23
Vinyl Acetate
Concen: 259.287 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1209209

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.2	12.2

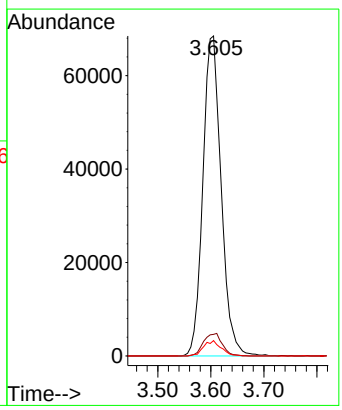


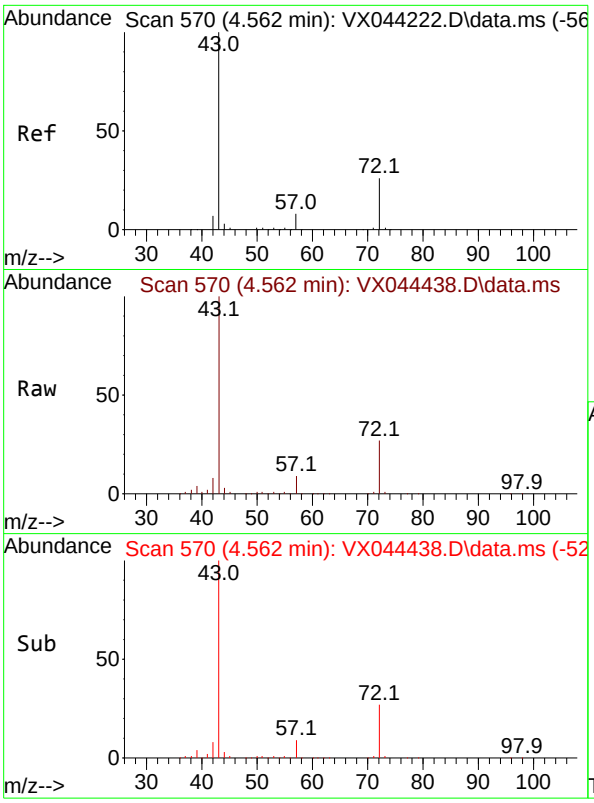


#24
1,1-Dichloroethane
Concen: 51.322 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 164103

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.6	10.8
100	4.8	2.1	6.3



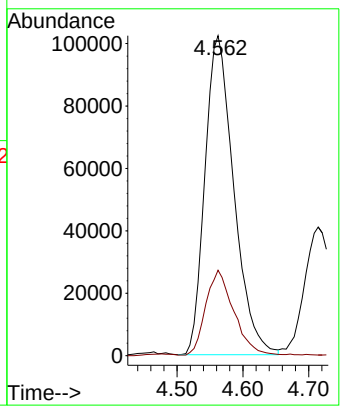


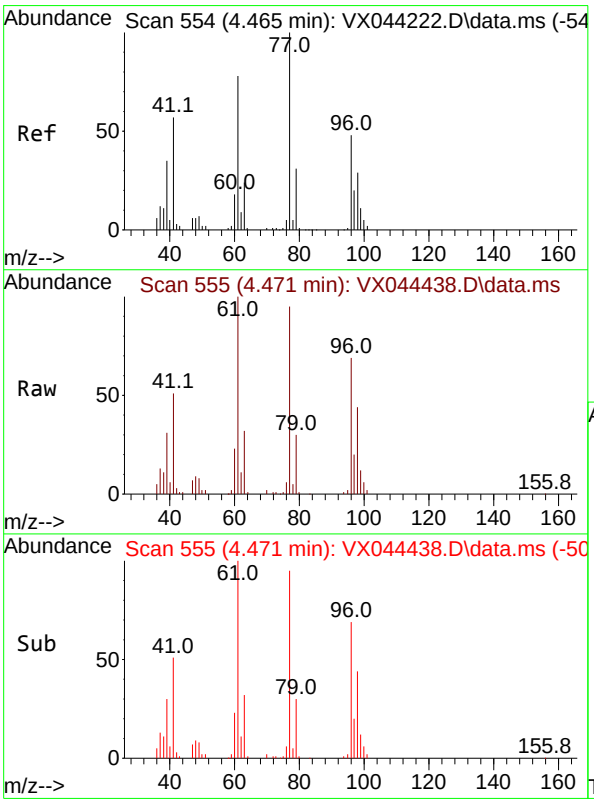
#25
2-Butanone
Concen: 225.066 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 312065

Ion	Ratio	Lower	Upper
43	100		
72	26.6	20.2	30.4

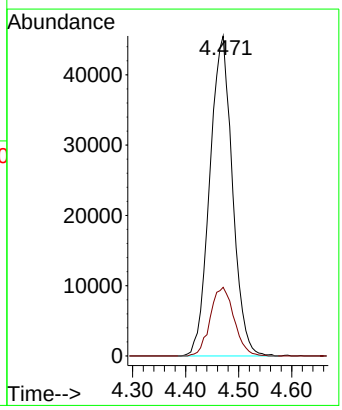


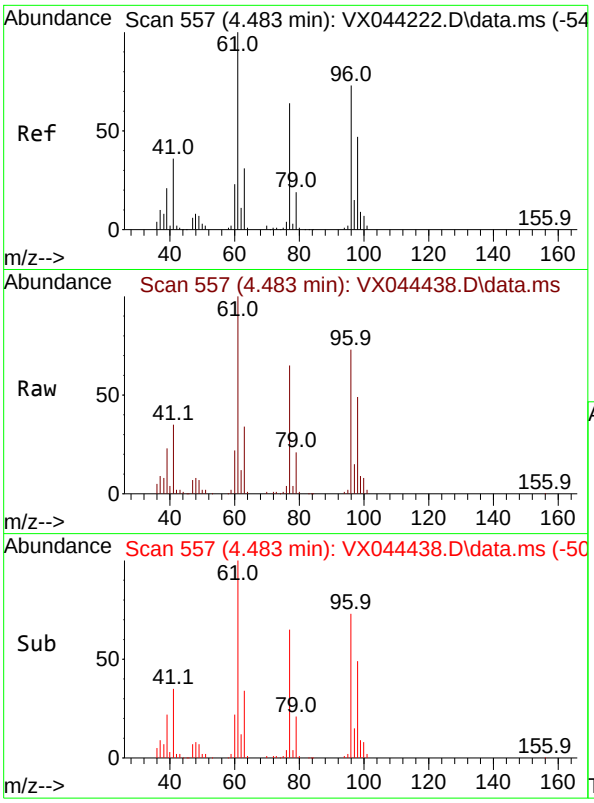


#26
2,2-Dichloropropane
Concen: 51.979 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 77 Resp: 135023

Ion	Ratio	Lower	Upper
77	100		
97	22.6	10.7	32.1



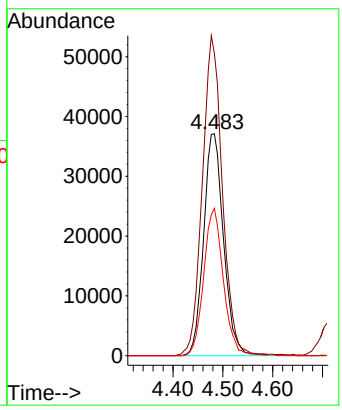


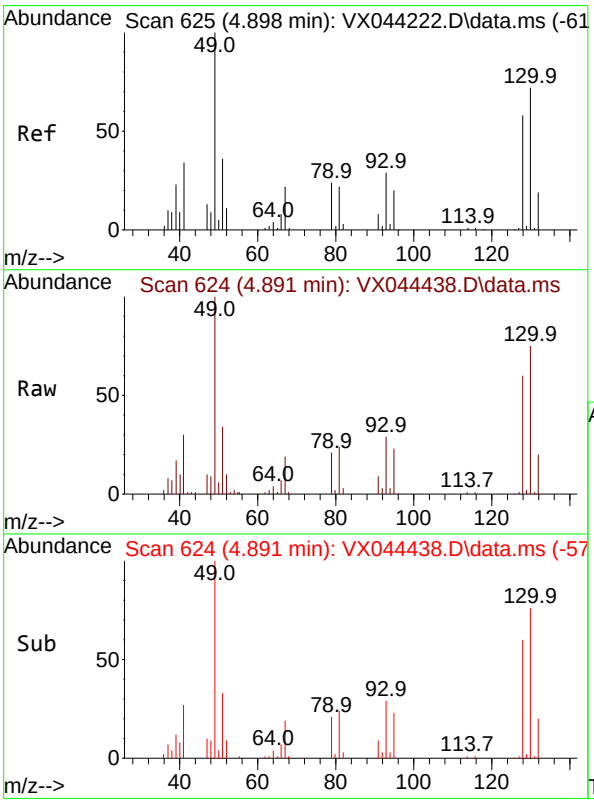
#27
cis-1,2-Dichloroethene
Concen: 49.931 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 103072

Ion	Ratio	Lower	Upper
96	100		
61	144.7	0.0	299.0
98	65.2	0.0	129.0

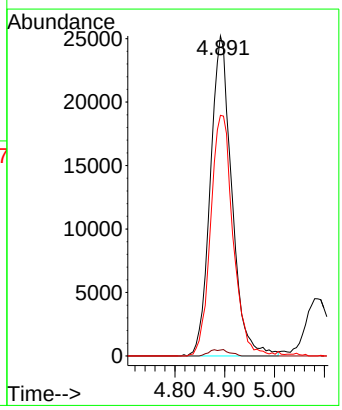


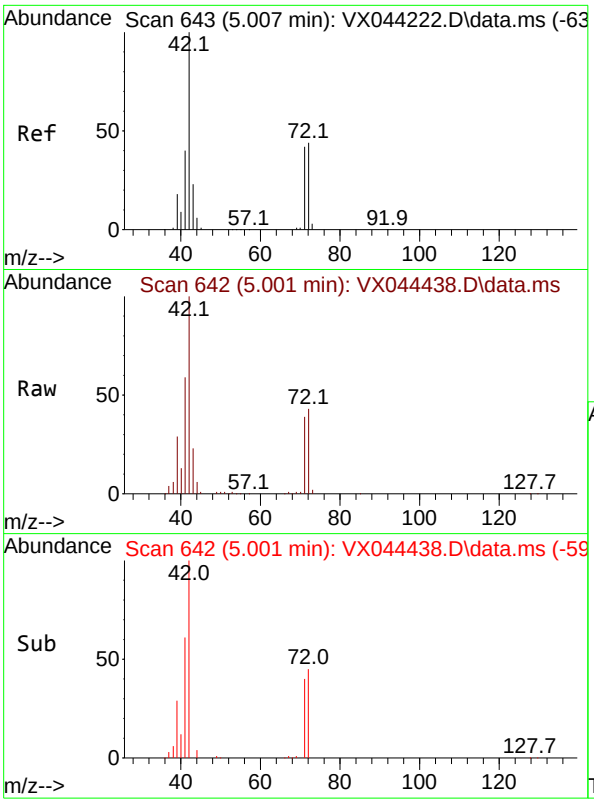


#28
Bromochloromethane
Concen: 48.128 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 49 Resp: 75463

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	78.0	62.1	93.1



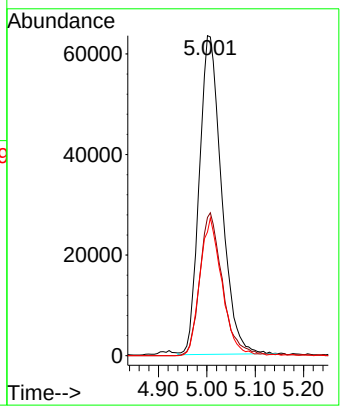


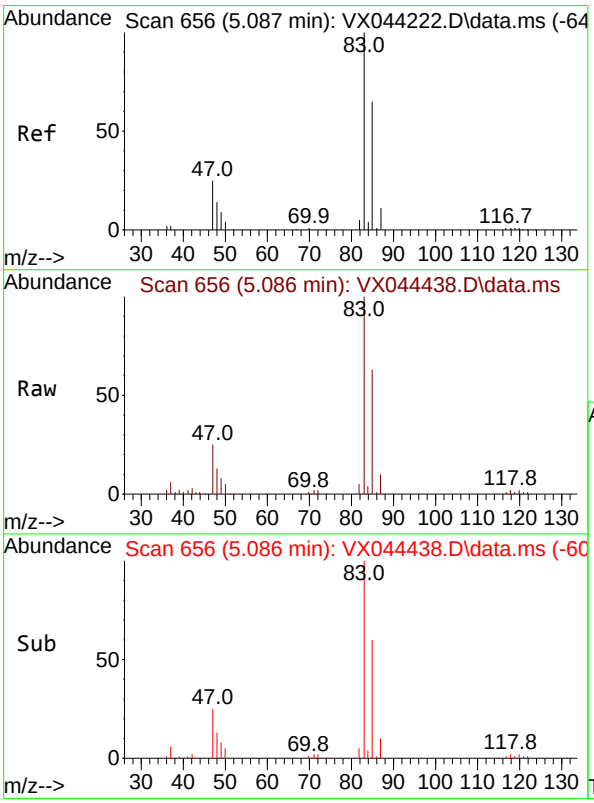
#29
Tetrahydrofuran
Concen: 227.599 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 202559

Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.0	55.6
71	42.9	33.6	50.4

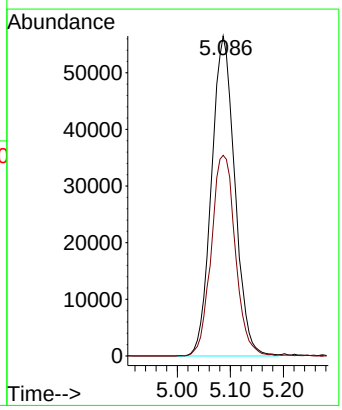


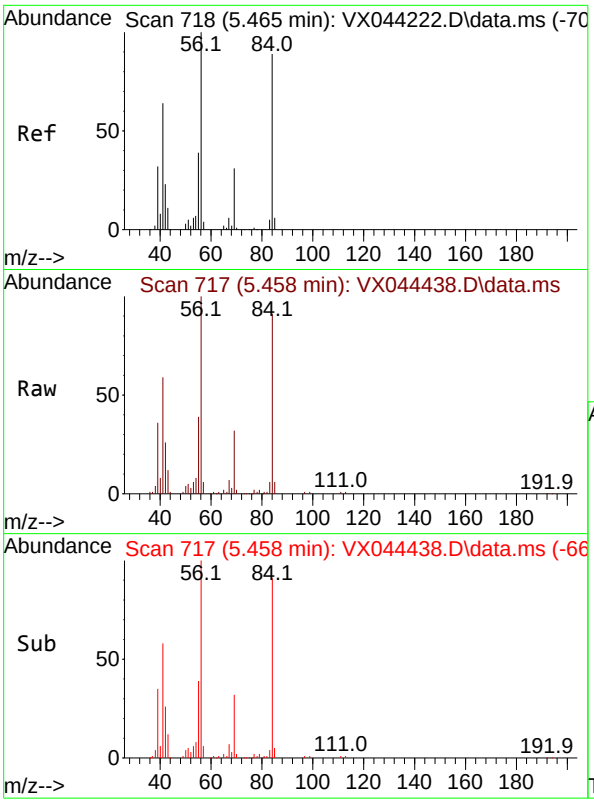


#30
Chloroform
Concen: 48.035 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 83 Resp: 172568

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.6	77.4



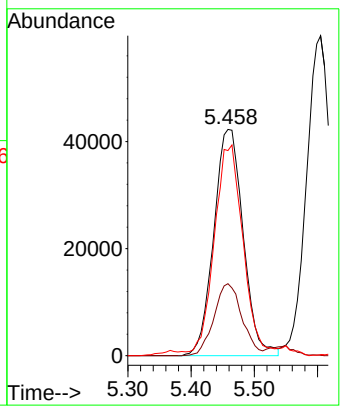


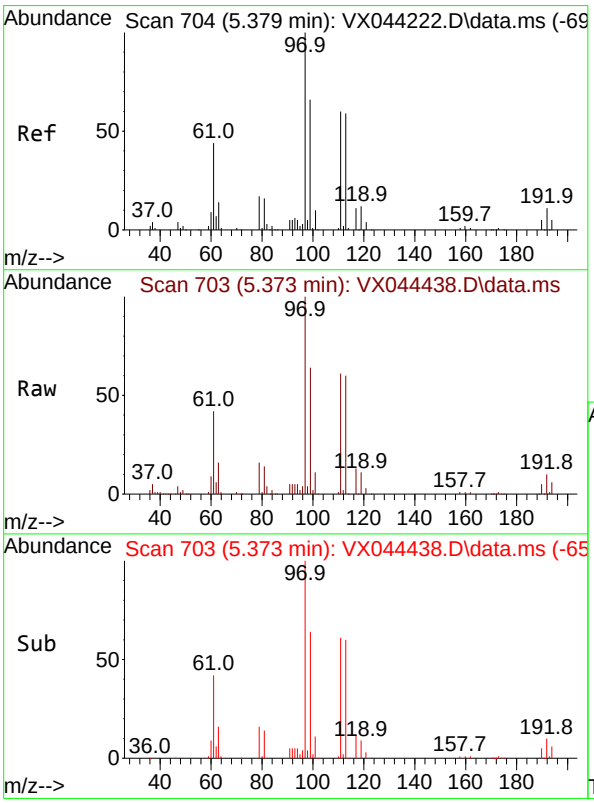
#31
Cyclohexane
Concen: 52.839 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 136432

Ion	Ratio	Lower	Upper
56	100		
69	31.9	24.7	37.1
84	89.0	71.0	106.6

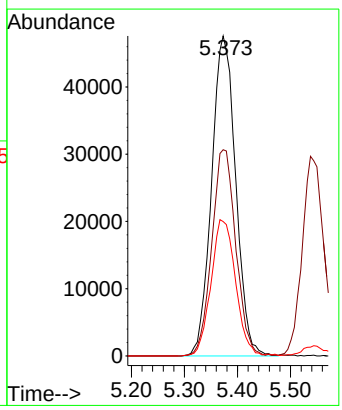


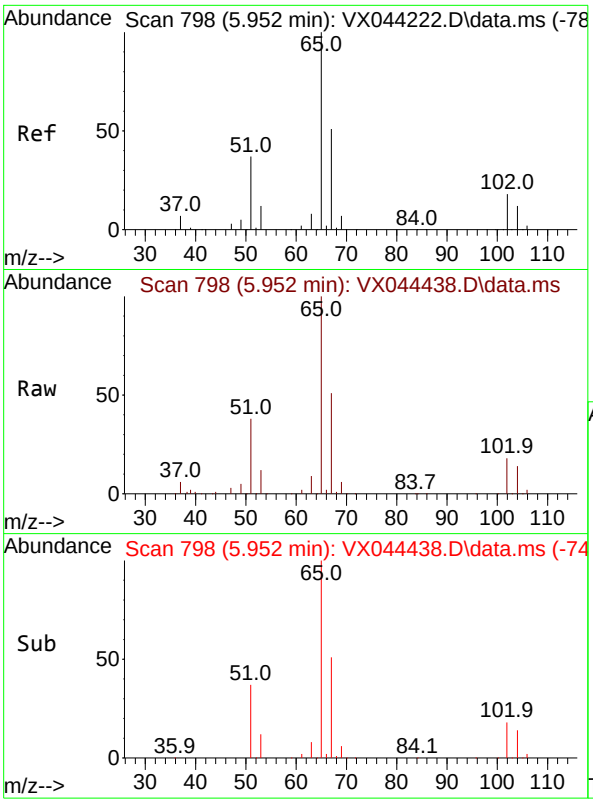


#32
1,1,1-Trichloroethane
Concen: 50.298 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 97 Resp: 149993

Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.8	76.2
61	43.5	35.2	52.8



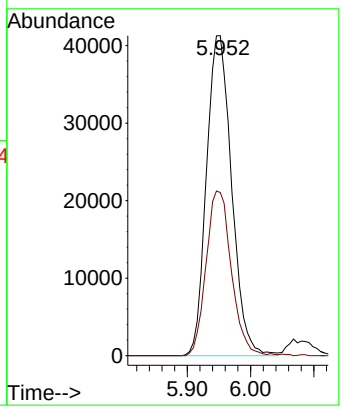


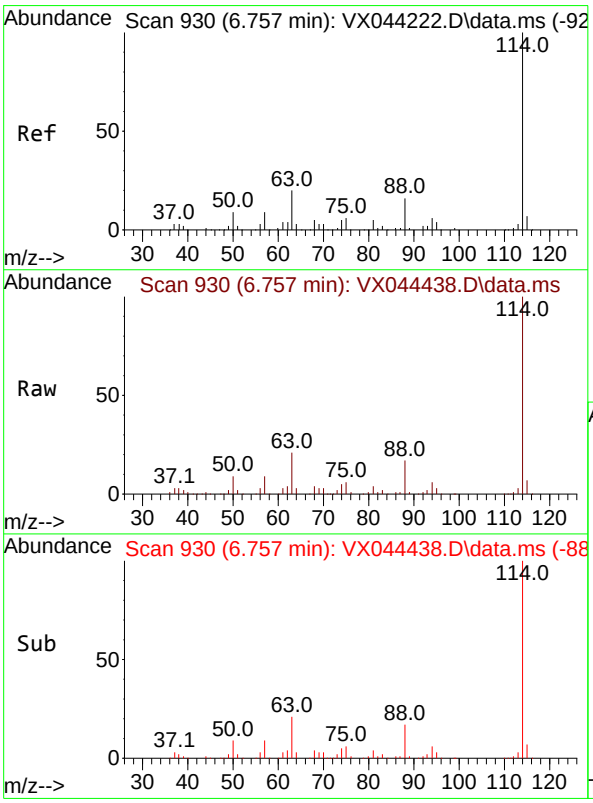
#33
1,2-Dichloroethane-d4
Concen: 47.679 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 114063

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.6

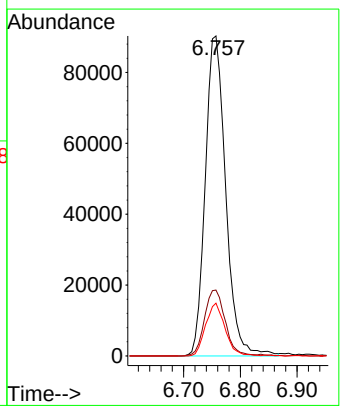


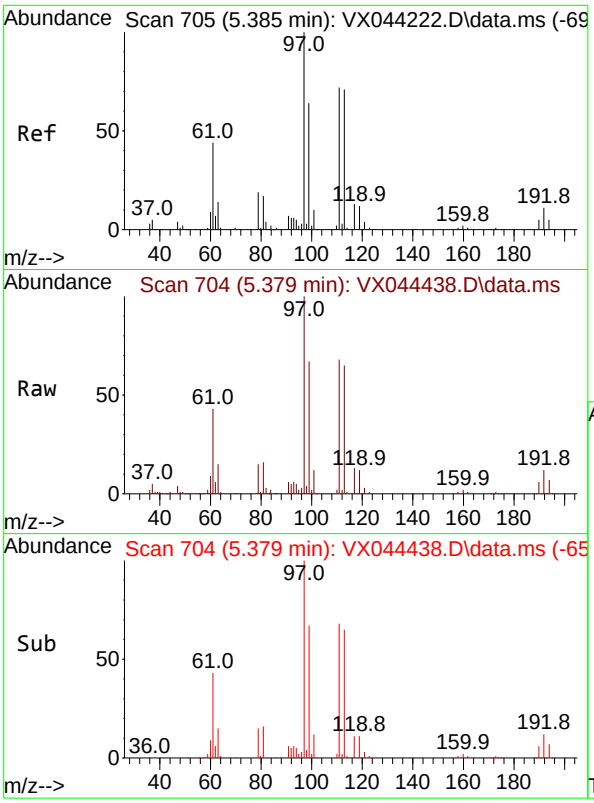


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:114 Resp: 226018

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.6
88	16.5	0.0	31.8



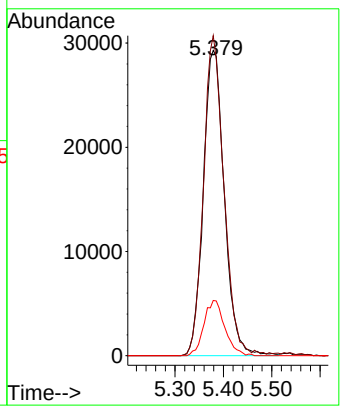


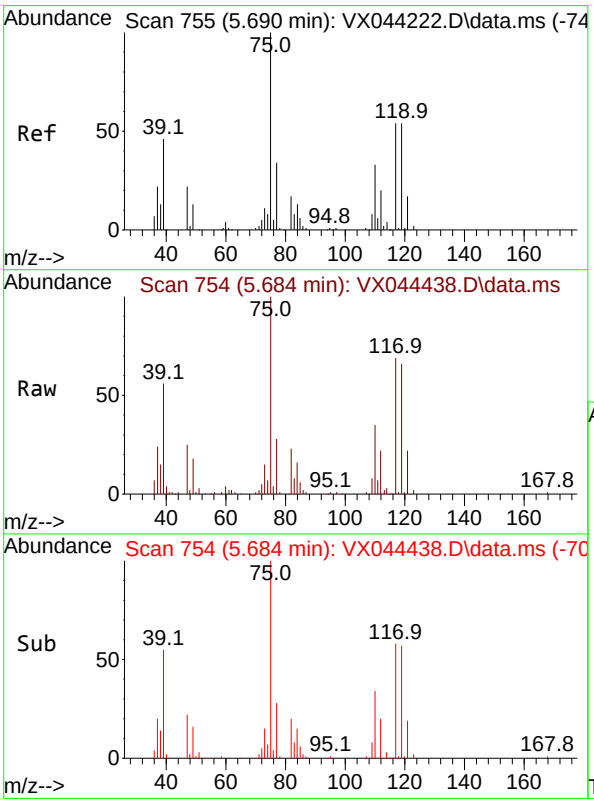
#35
Dibromofluoromethane
Concen: 56.586 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 88578

Ion	Ratio	Lower	Upper
113	100		
111	101.0	80.4	120.6
192	18.0	13.3	19.9

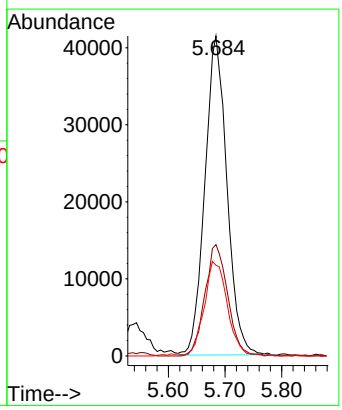


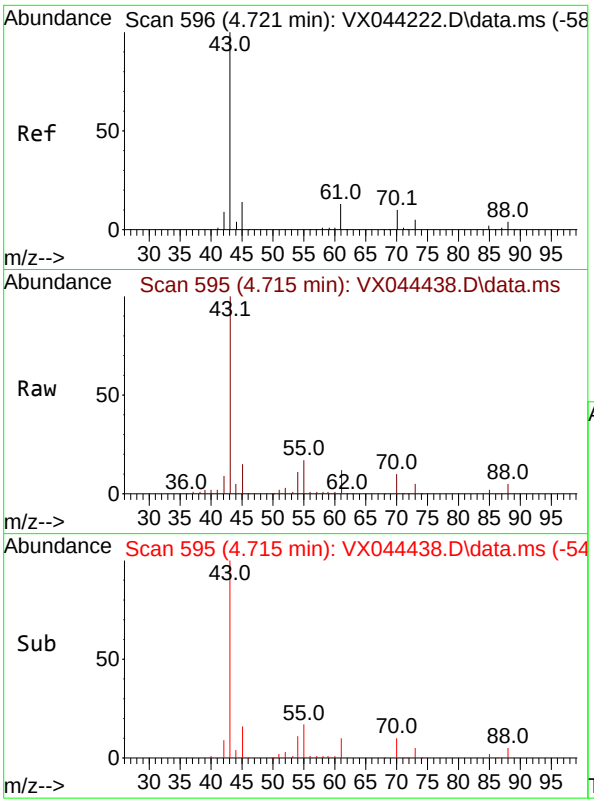


#36
1,1-Dichloropropene
Concen: 55.205 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 111706

Ion	Ratio	Lower	Upper
75	100		
110	36.3	17.3	51.7
77	31.1	25.4	38.0



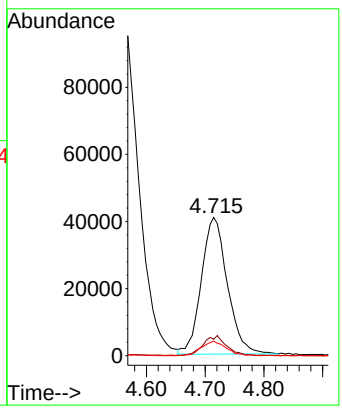


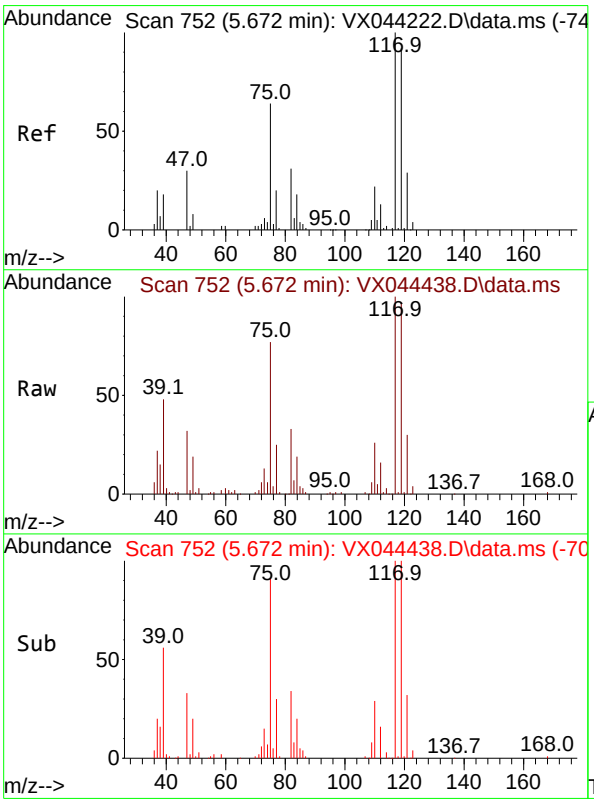
#37
Ethyl Acetate
Concen: 50.217 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 125607

Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.8	14.8
70	10.0	7.7	11.5

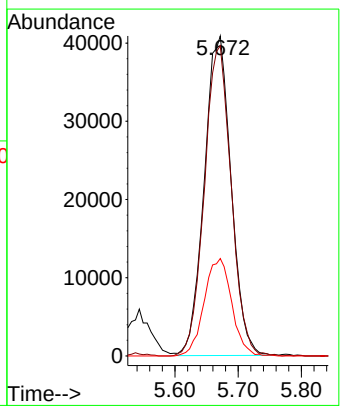


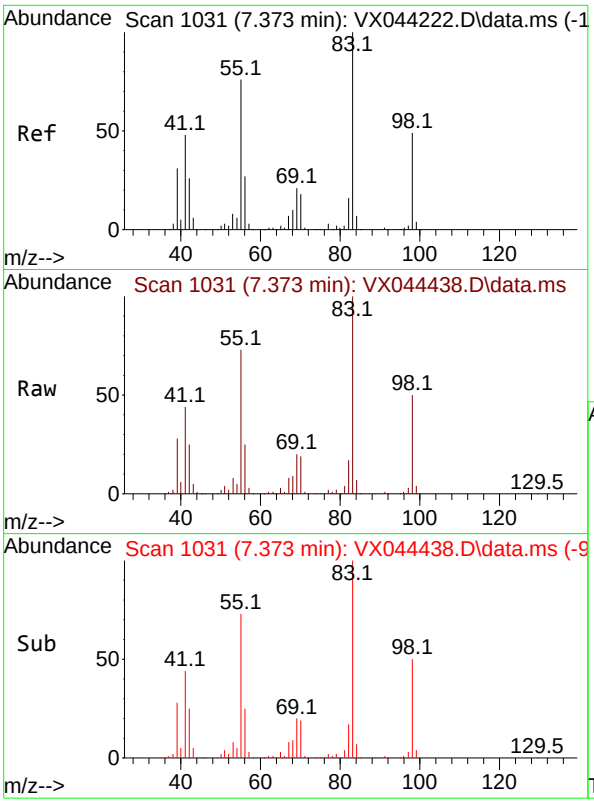


#38
Carbon Tetrachloride
Concen: 55.304 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 120478

Ion	Ratio	Lower	Upper
117	100		
119	96.8	74.2	111.4
121	30.5	23.0	34.6



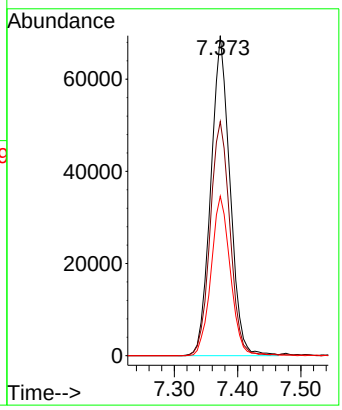


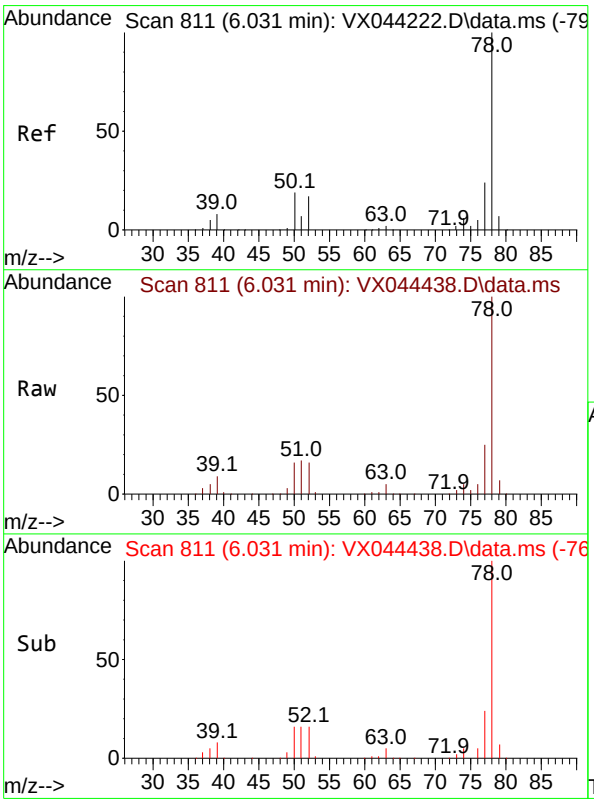
#39
Methylcyclohexane
Concen: 60.512 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 146379

Ion	Ratio	Lower	Upper
83	100		
55	73.1	60.7	91.1
98	49.8	38.9	58.3

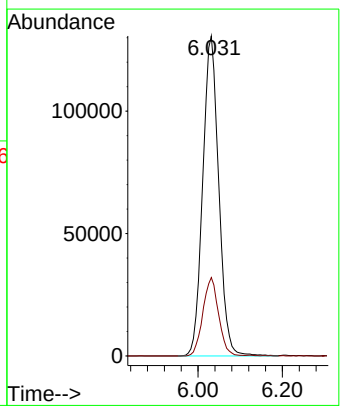


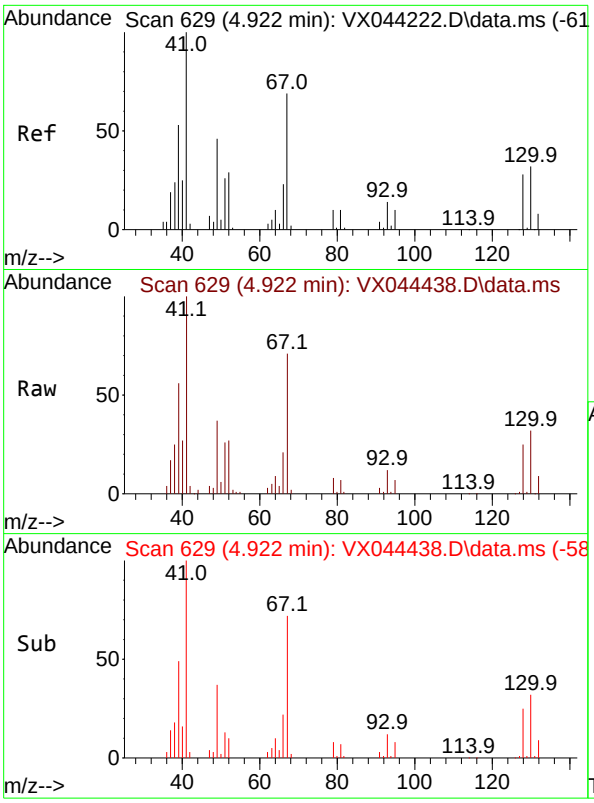


#40
Benzene
Concen: 56.259 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 78 Resp: 345635

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.3	28.9



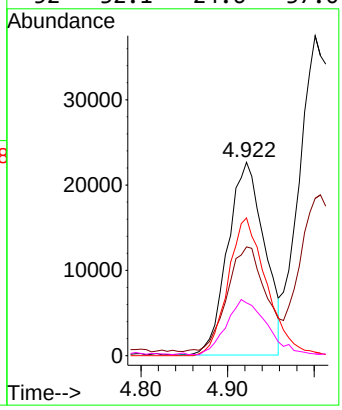


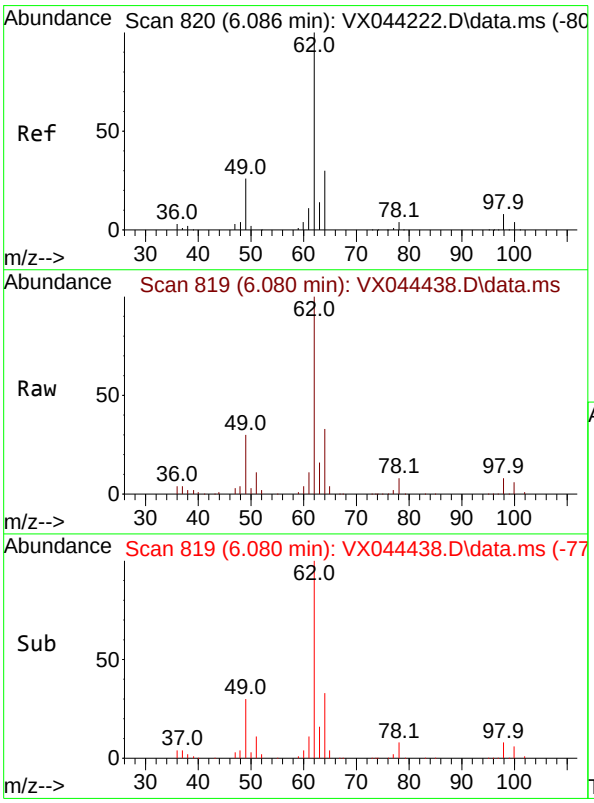
#41
Methacrylonitrile
Concen: 50.310 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 66821

Ion	Ratio	Lower	Upper
41	100		
39	58.0	44.2	66.4
67	74.9	57.2	85.8
52	32.1	24.6	37.0

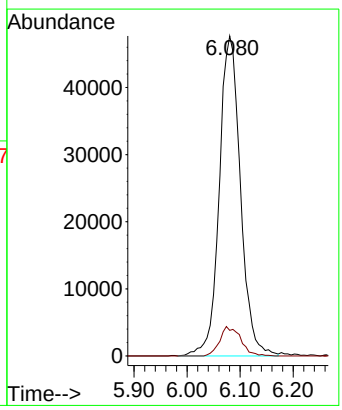


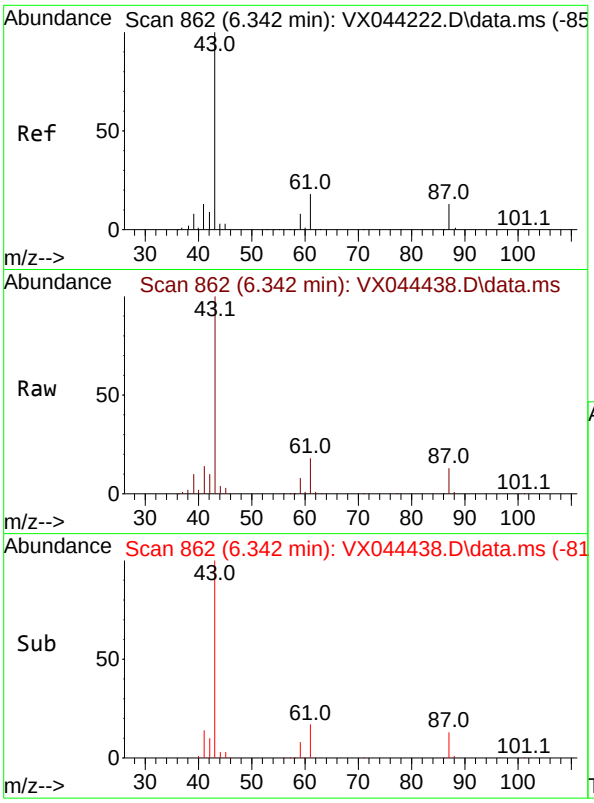


#42
1,2-Dichloroethane
Concen: 52.362 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 62 Resp: 132516

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8



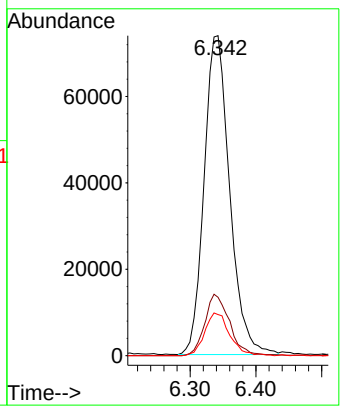


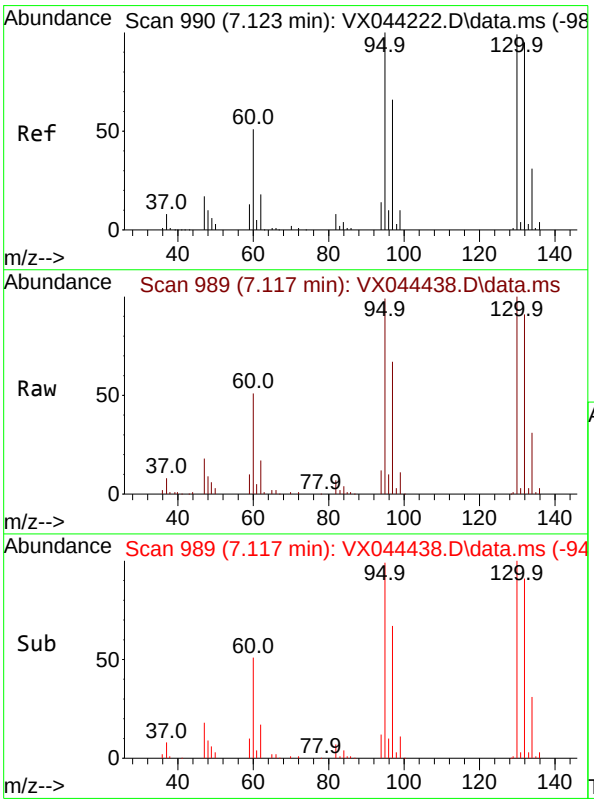
#43
Isopropyl Acetate
Concen: 51.076 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 199677

Ion	Ratio	Lower	Upper
43	100		
61	18.8	14.2	21.2
87	13.1	10.2	15.2

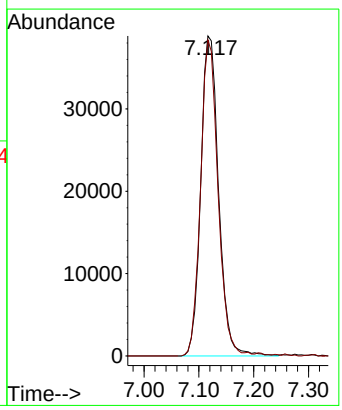


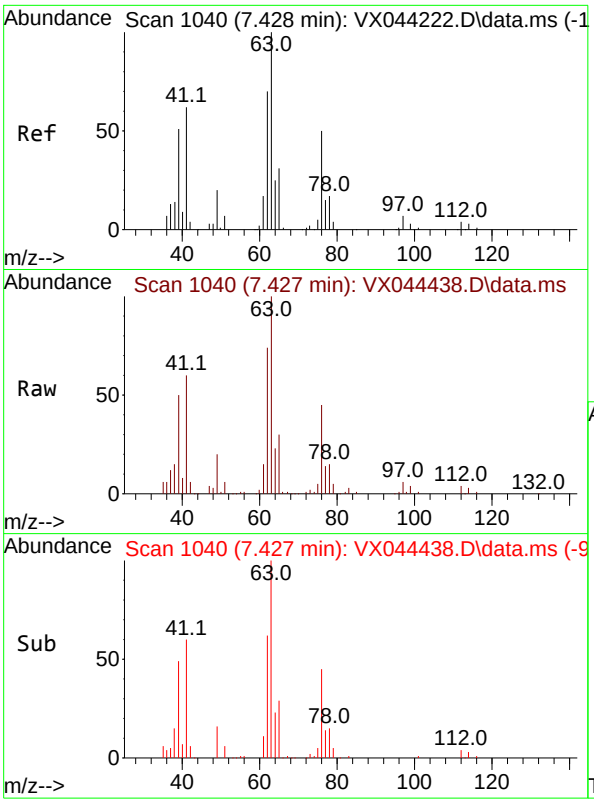


#44
Trichloroethene
Concen: 57.285 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:130 Resp: 87763

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	201.4



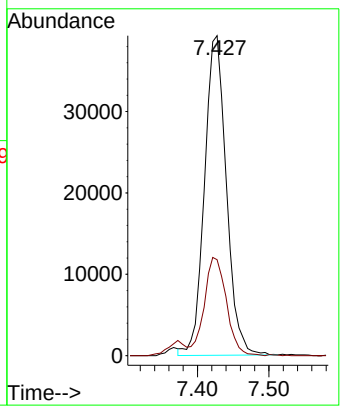


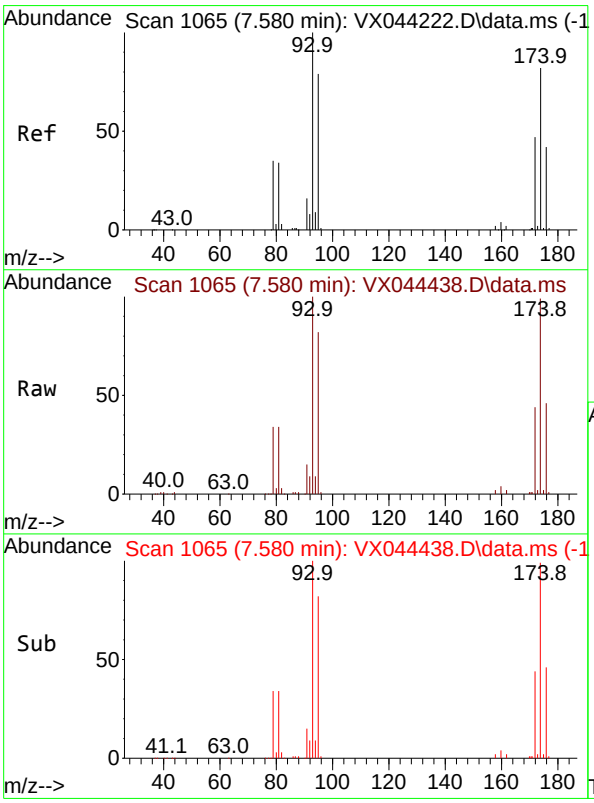
#45
1,2-Dichloropropane
Concen: 53.131 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 83393

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.6	37.0

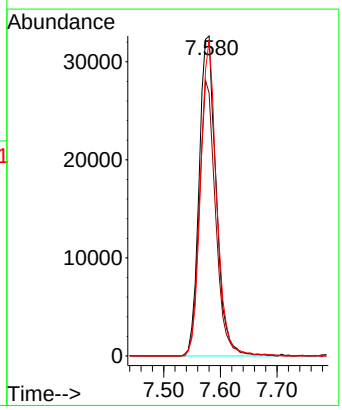


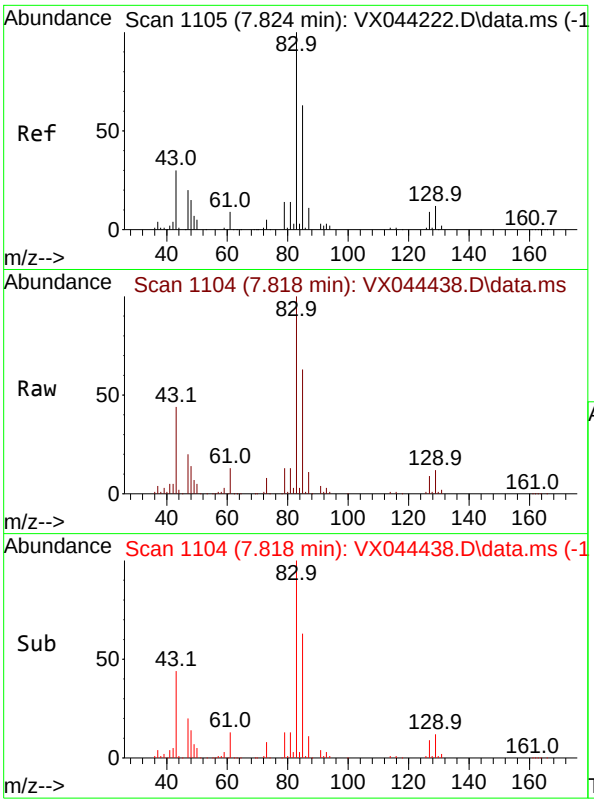


#46
Dibromomethane
Concen: 55.676 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 93 Resp: 67796

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.4	98.2
174	93.2	67.9	101.9



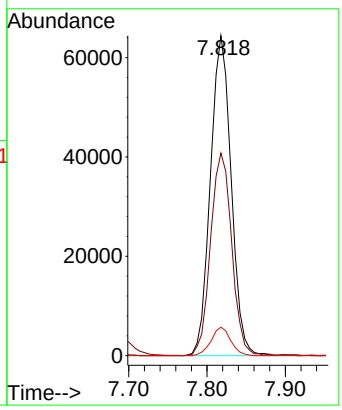


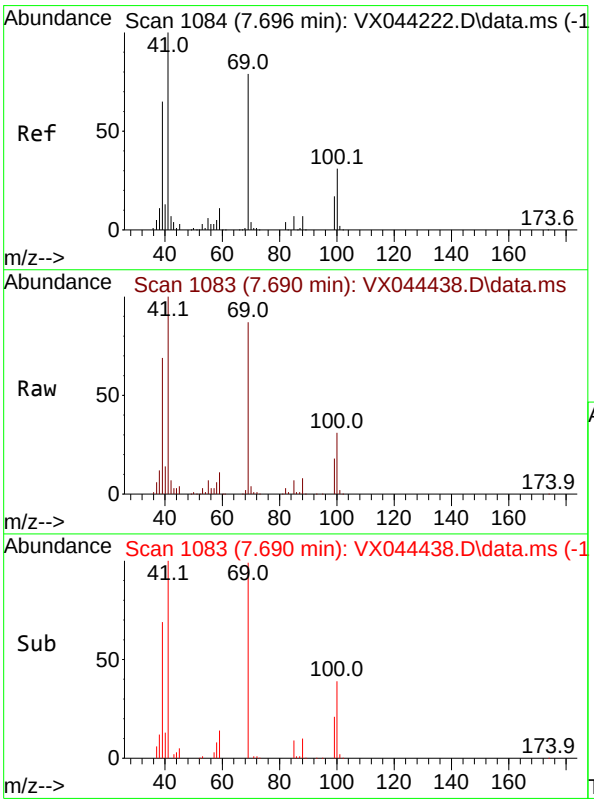
#47
Bromodichloromethane
Concen: 56.402 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 118614

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	8.9	7.3	10.9

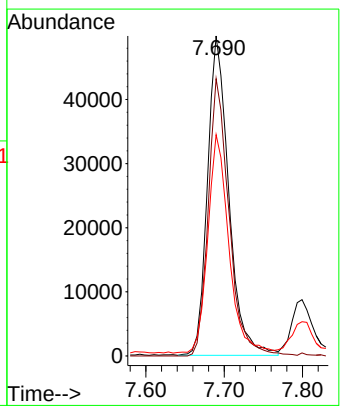


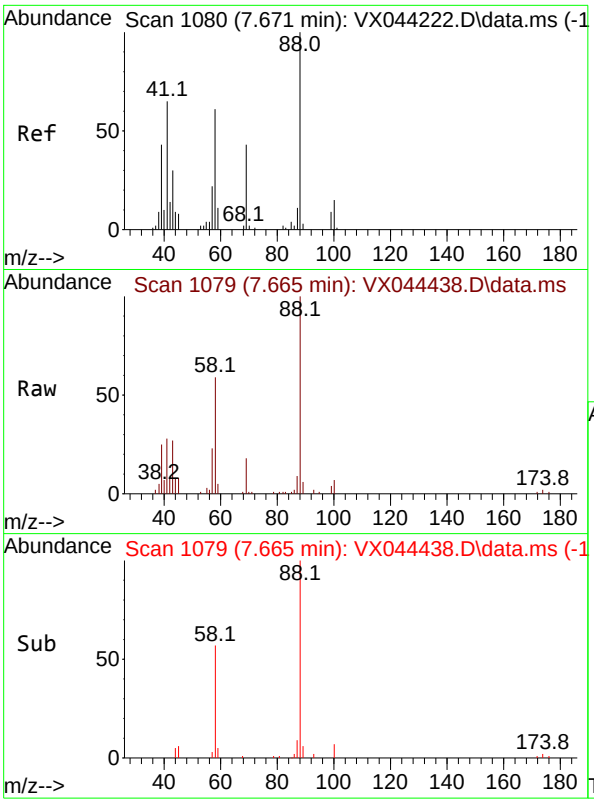


#48
Methyl methacrylate
Concen: 49.554 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 41 Resp: 94040

Ion	Ratio	Lower	Upper
41	100		
69	85.0	62.4	93.6
39	67.5	53.3	79.9



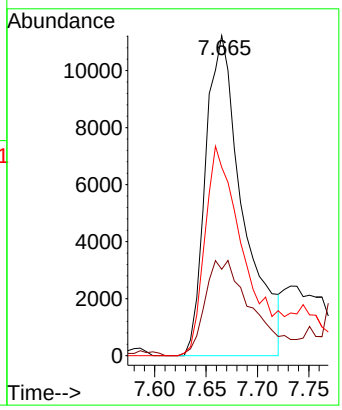


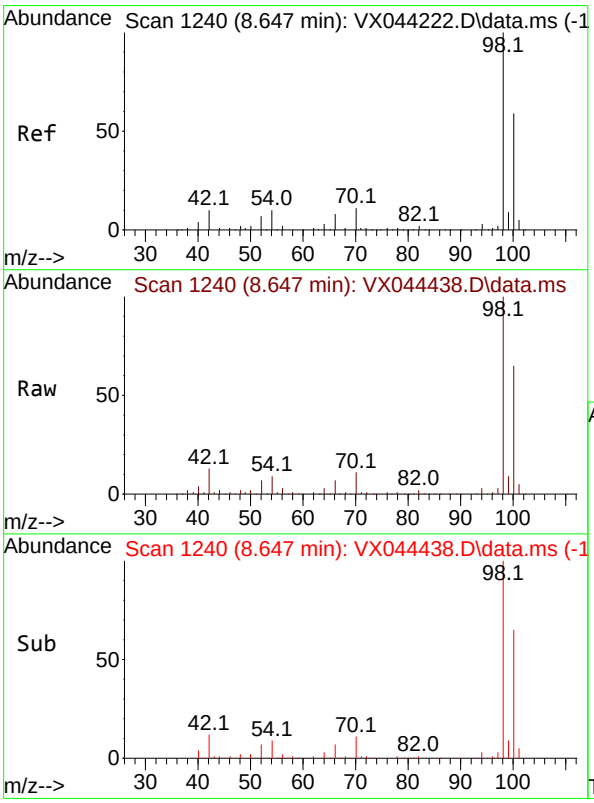
#49
1,4-Dioxane
Concen: 906.120 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 28510

Ion	Ratio	Lower	Upper
88	100		
43	37.0	27.1	40.7
58	69.1	41.0	61.4#

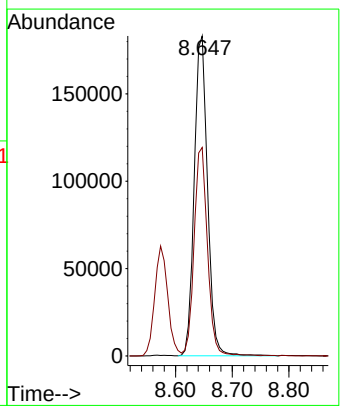


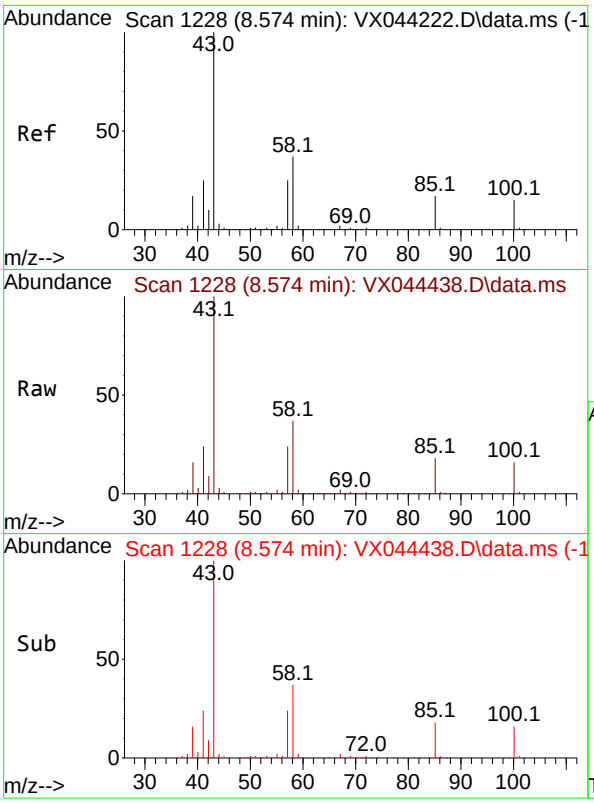


#50
Toluene-d8
Concen: 56.385 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 98 Resp: 297779

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.5	77.3



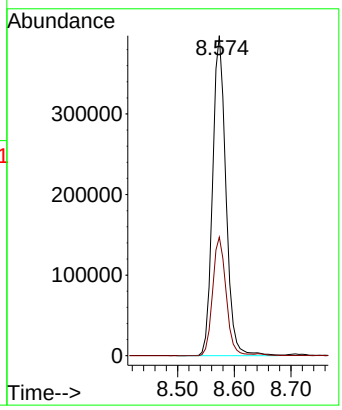


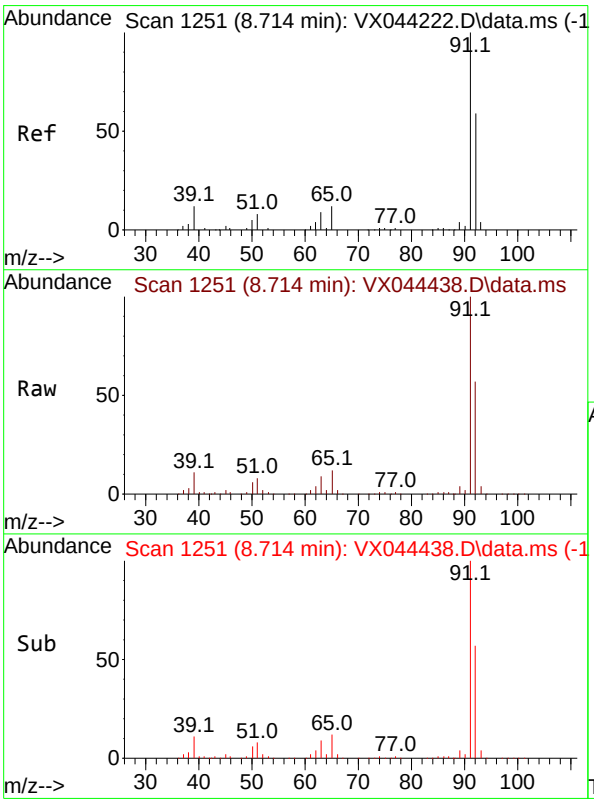
#51
4-Methyl-2-Pentanone
Concen: 257.494 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 647258

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.4	44.0

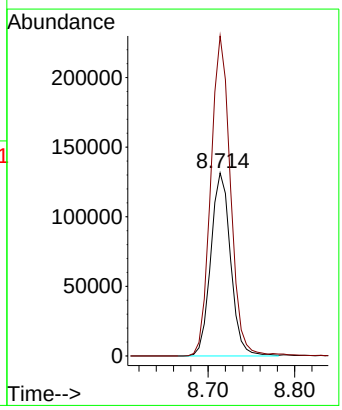


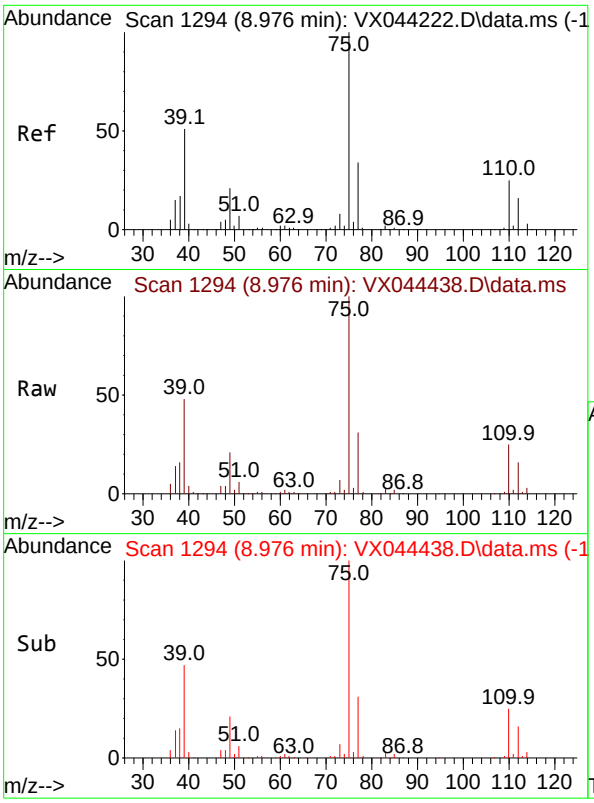


#52
Toluene
Concen: 54.120 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 92 Resp: 208798

Ion	Ratio	Lower	Upper
92	100		
91	174.6	137.0	205.6



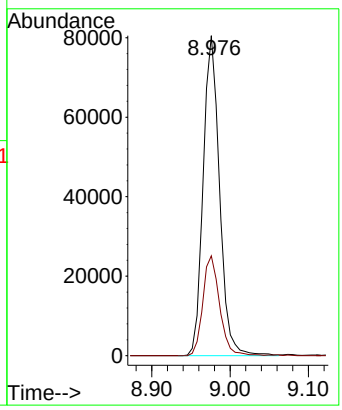


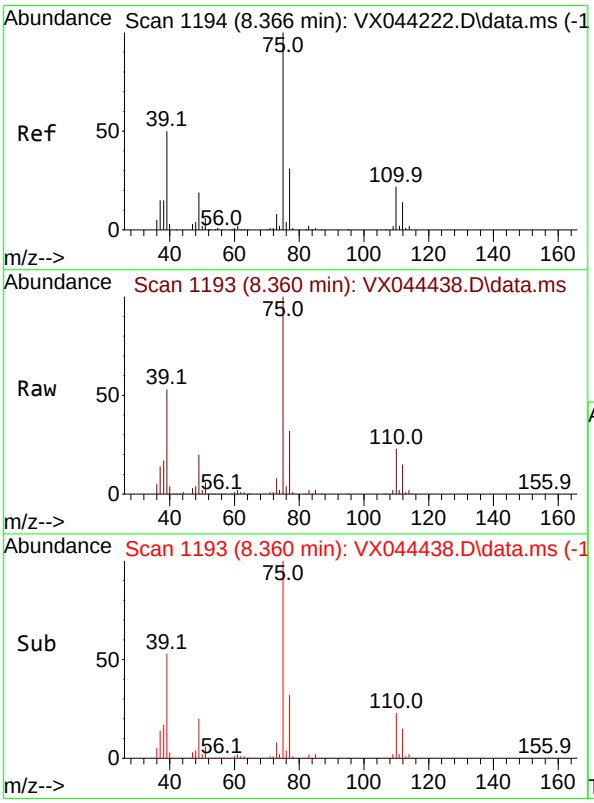
#53
t-1,3-Dichloropropene
Concen: 51.640 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 116841

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8

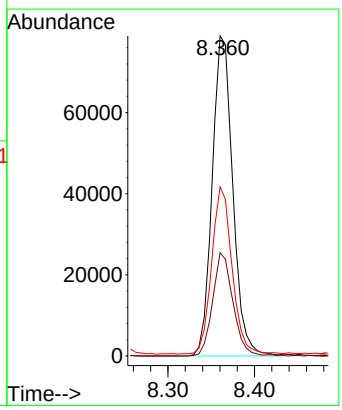


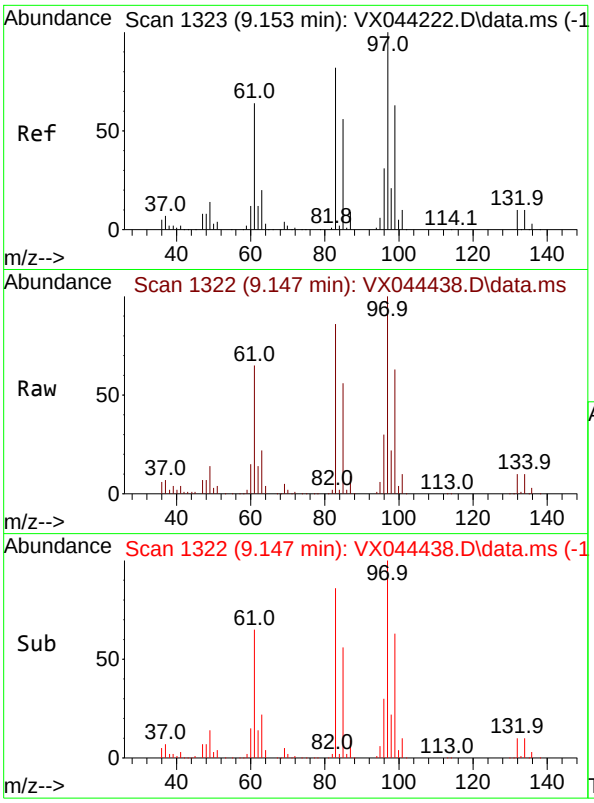


#54
cis-1,3-Dichloropropene
Concen: 56.913 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 130320

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	52.3	40.3	60.5



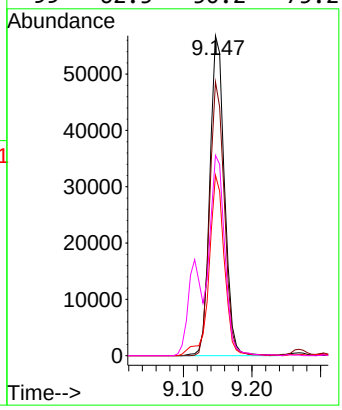


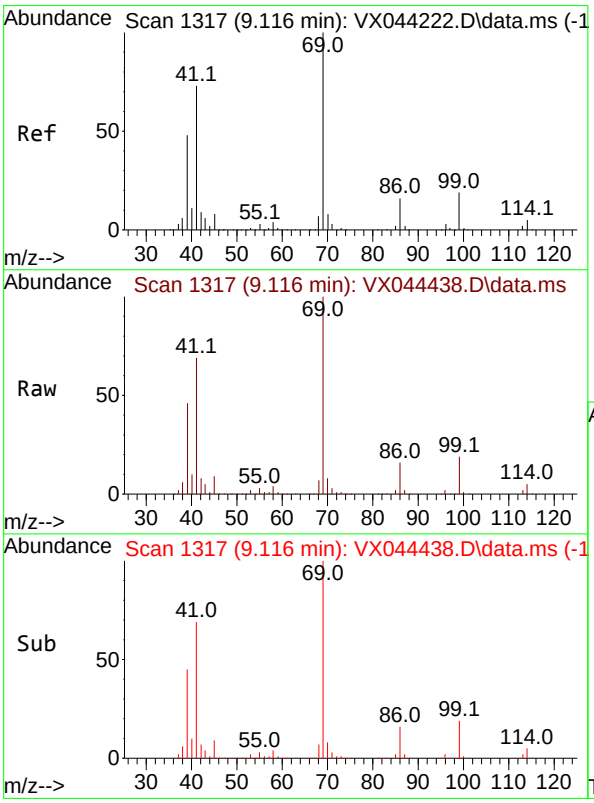
#55
1,1,2-Trichloroethane
Concen: 55.124 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 84487

Ion	Ratio	Lower	Upper
97	100		
83	85.6	65.3	97.9
85	56.4	44.6	67.0
99	62.5	50.2	75.2

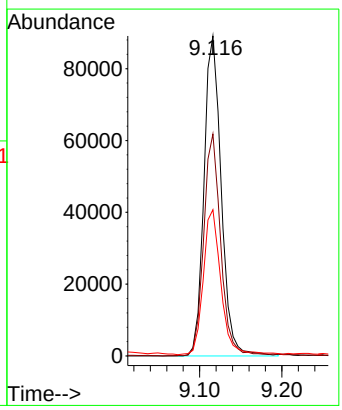


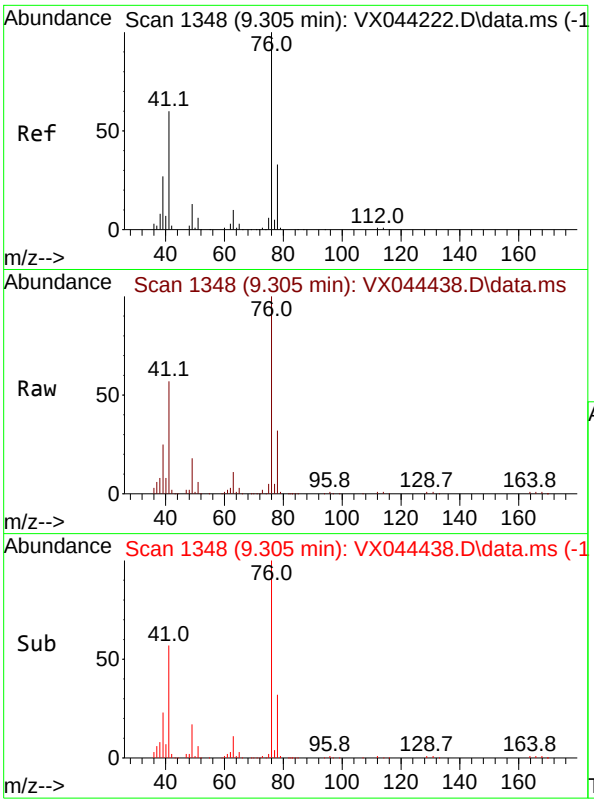


#56
Ethyl methacrylate
Concen: 53.800 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 69 Resp: 130175

Ion	Ratio	Lower	Upper
69	100		
41	68.3	56.6	85.0
39	46.2	37.4	56.0



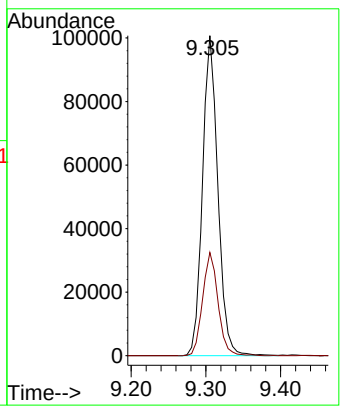


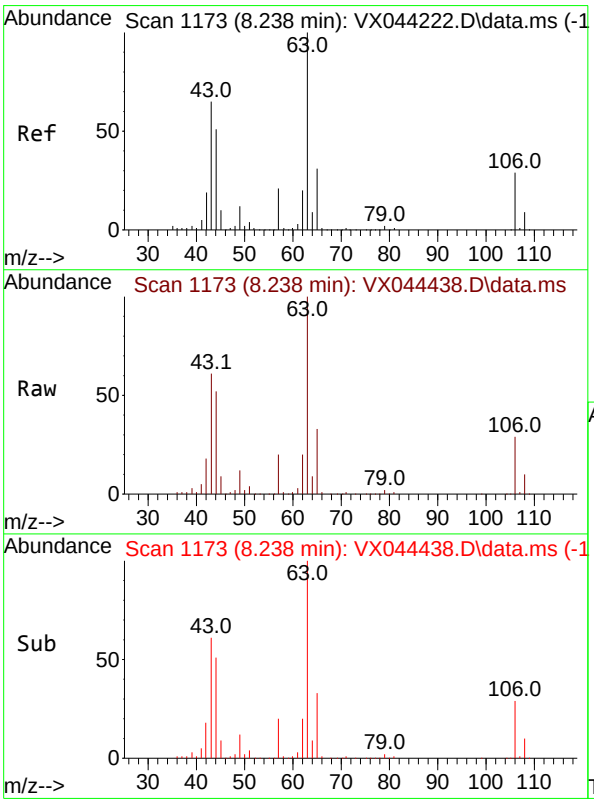
#57
1,3-Dichloropropane
Concen: 53.824 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 143590

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.5	39.7

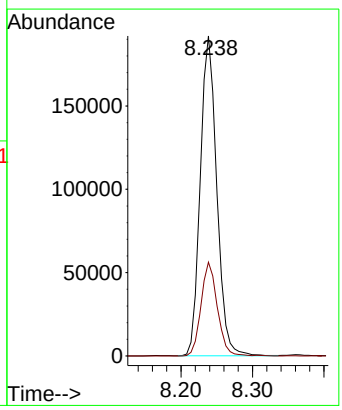


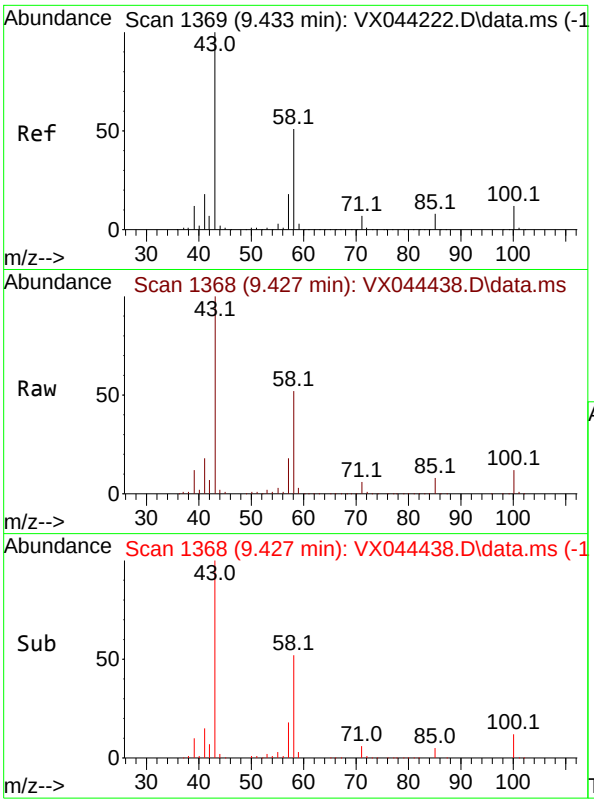


#58
2-Chloroethyl Vinyl ether
Concen: 252.070 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 63 Resp: 307620

Ion	Ratio	Lower	Upper
63	100		
106	29.0	22.8	34.2



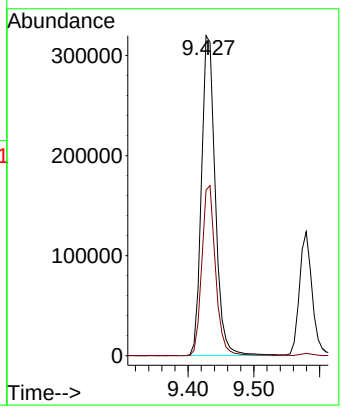


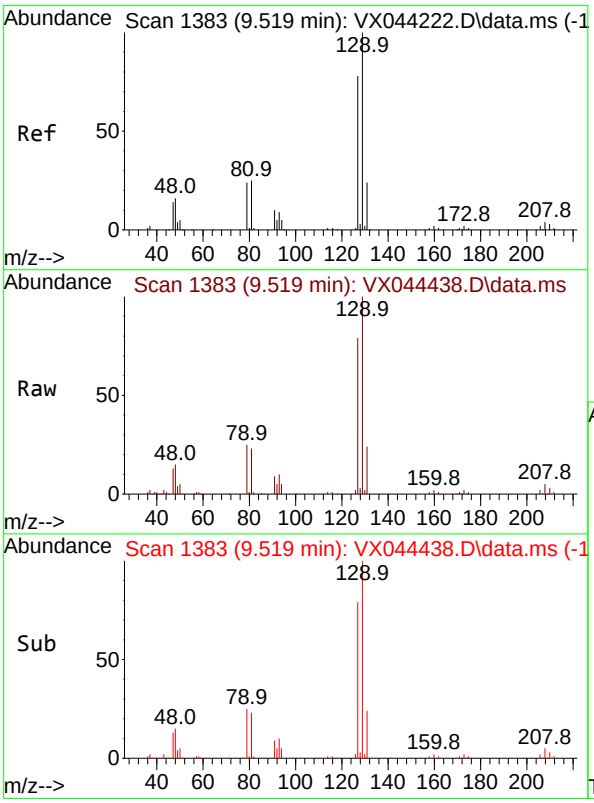
#59
2-Hexanone
Concen: 256.860 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 467347

Ion	Ratio	Lower	Upper
43	100		
58	53.0	25.7	77.0

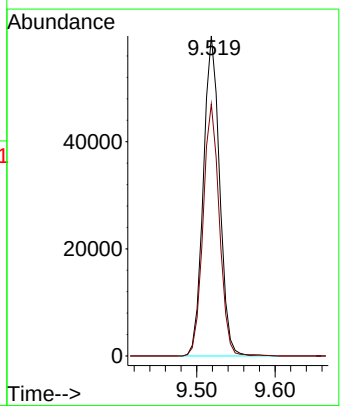


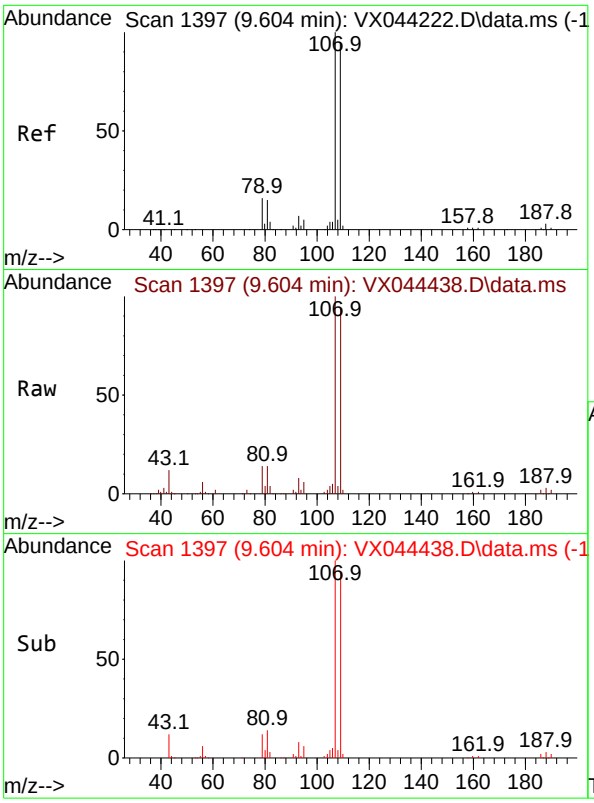


#60
Dibromochloromethane
Concen: 52.901 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:129 Resp: 86207

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.3



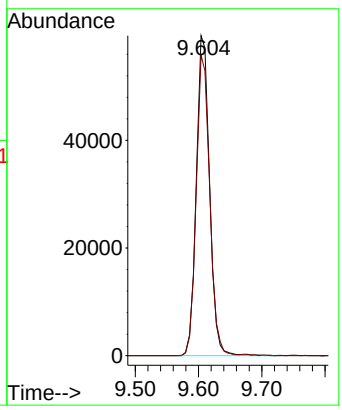


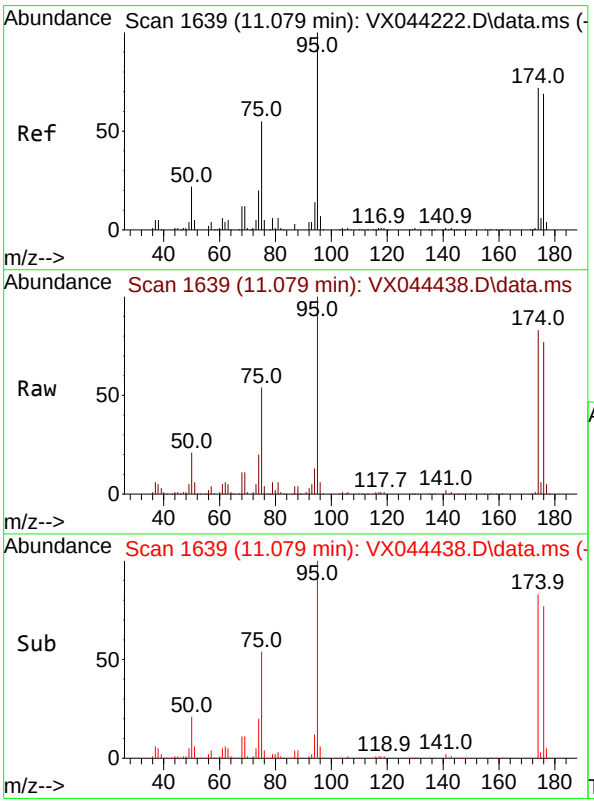
#61
1,2-Dibromoethane
Concen: 55.721 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 86930

Ion	Ratio	Lower	Upper
107	100		
109	95.3	77.0	115.4

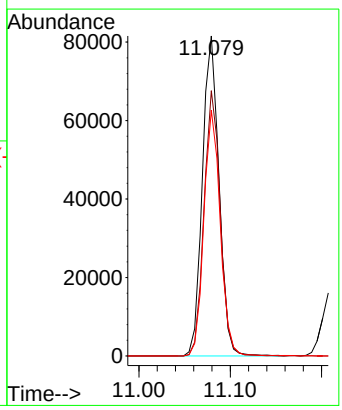


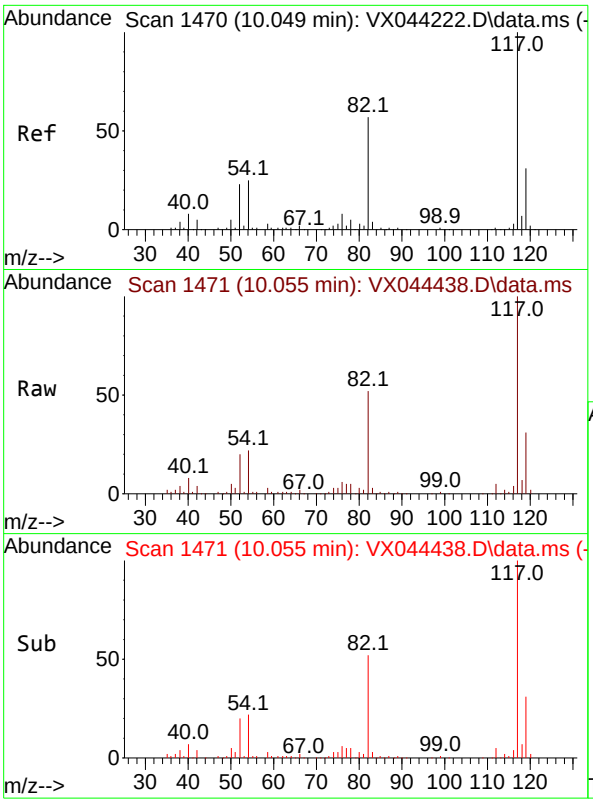


#62
4-Bromofluorobenzene
Concen: 55.640 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 95 Resp: 102676

Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	145.8
176	75.6	0.0	137.8



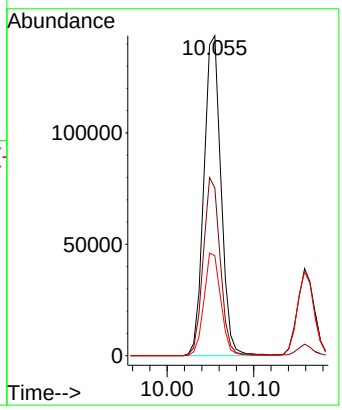


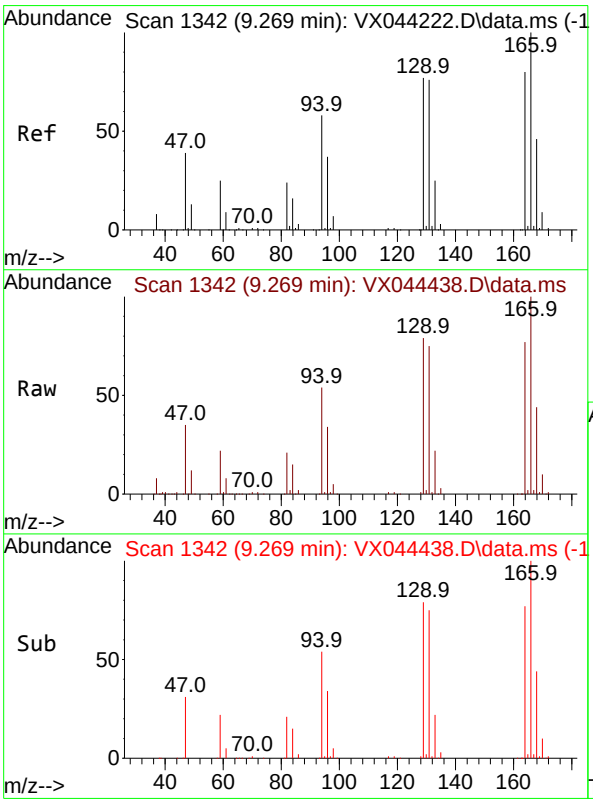
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 197543

Ion	Ratio	Lower	Upper
117	100		
82	52.5	45.8	68.8
119	31.3	25.0	37.4

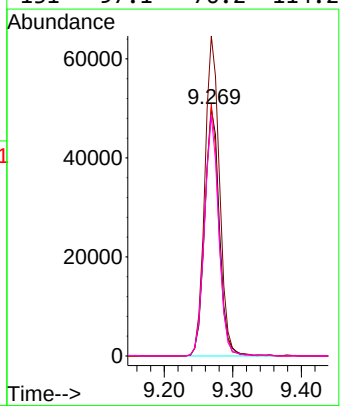


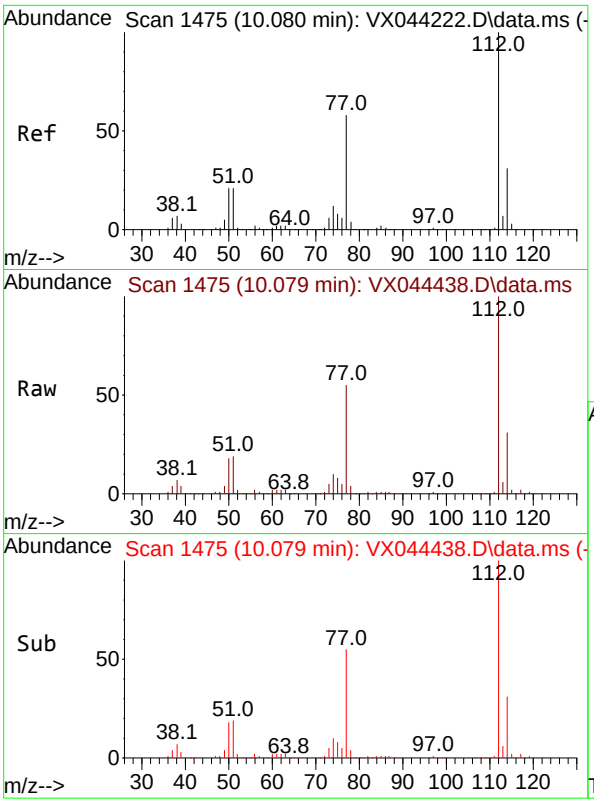


#64
Tetrachloroethene
Concen: 57.001 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:164 Resp: 74735

Ion	Ratio	Lower	Upper
164	100		
166	129.3	100.4	150.6
129	101.8	77.2	115.8
131	97.1	76.2	114.2



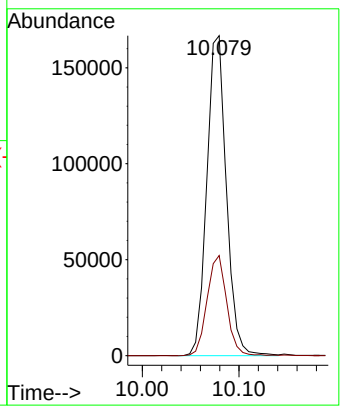


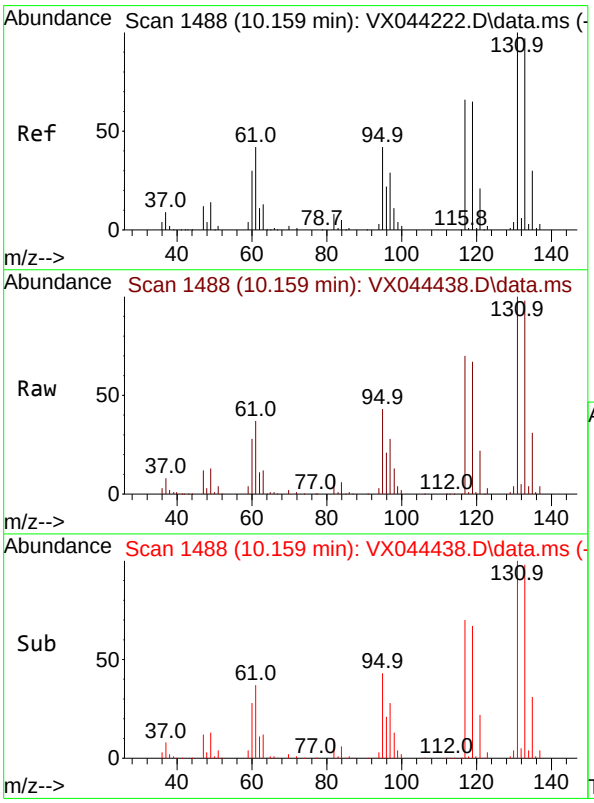
#65
Chlorobenzene
Concen: 55.402 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 234513

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6

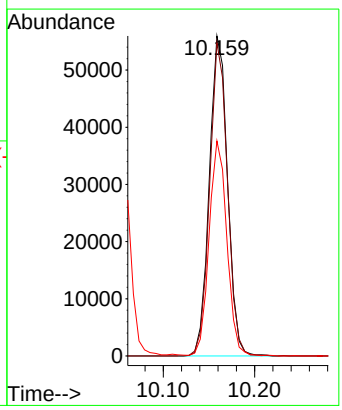


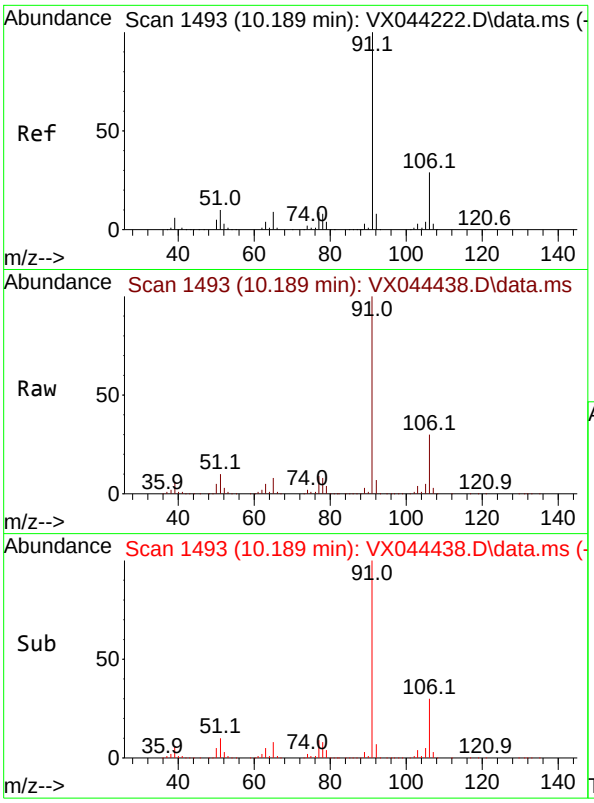


#66
1,1,1,2-Tetrachloroethane
Concen: 56.959 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:131 Resp: 77487

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	141.8
119	65.6	31.6	95.0



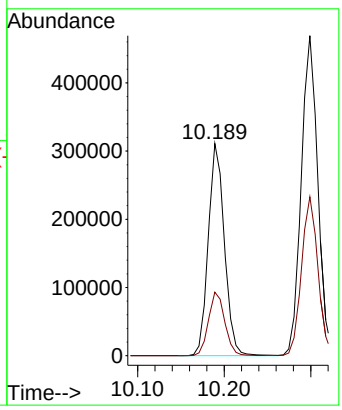


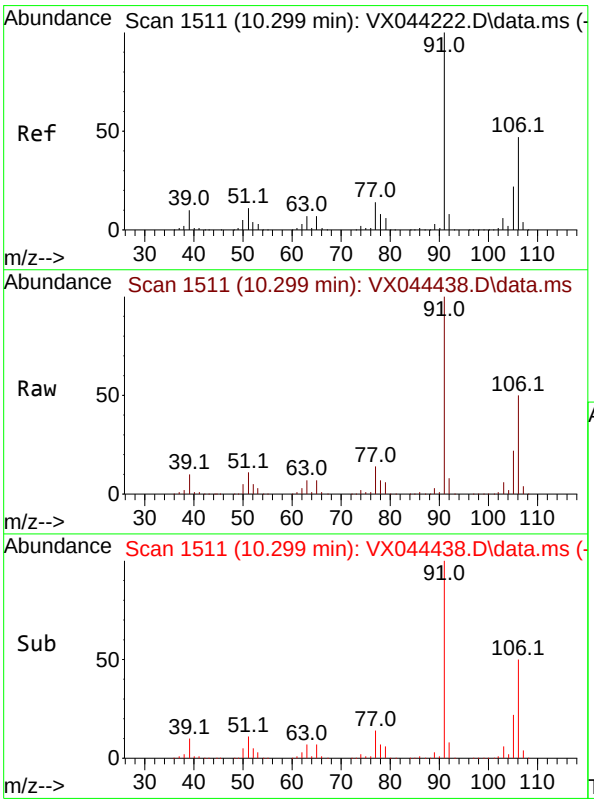
#67
Ethyl Benzene
Concen: 54.936 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 401792

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.5	35.3

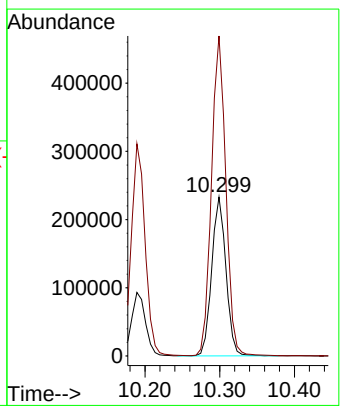


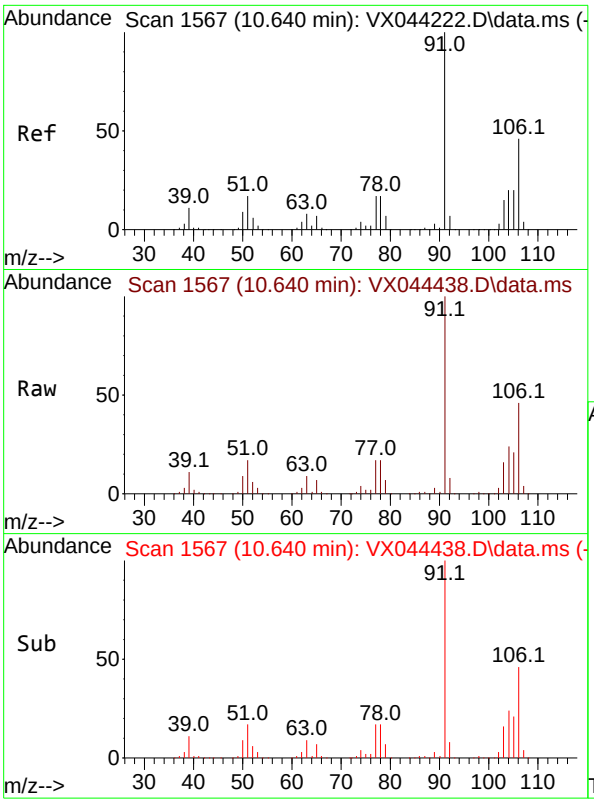


#68
m/p-Xylenes
Concen: 114.771 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:106 Resp: 308013

Ion	Ratio	Lower	Upper
106	100		
91	202.5	170.2	255.2



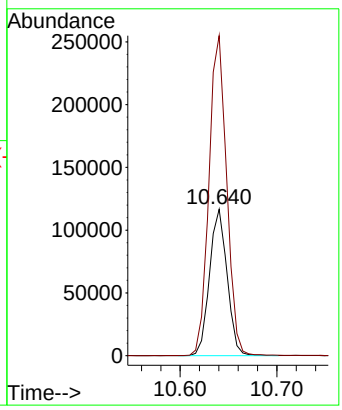


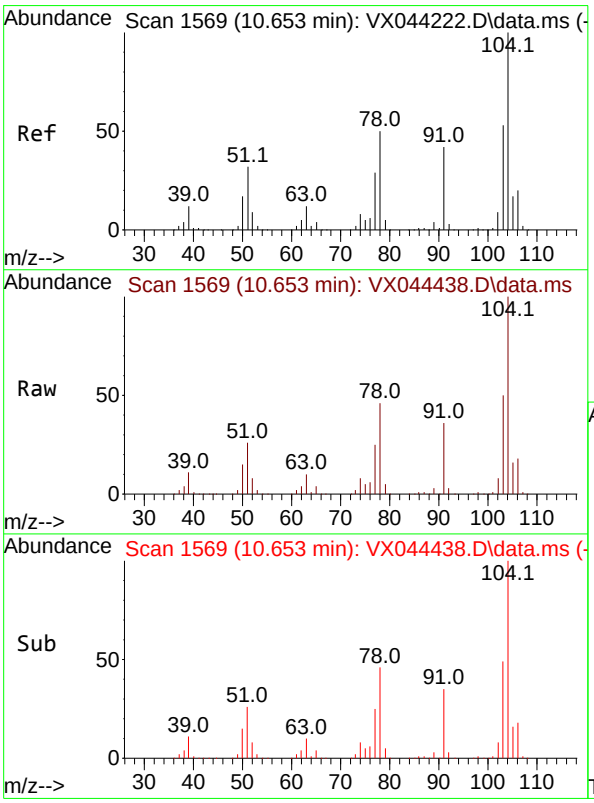
#69
o-Xylene
Concen: 54.389 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 147688

Ion	Ratio	Lower	Upper
106	100		
91	220.8	112.3	337.0

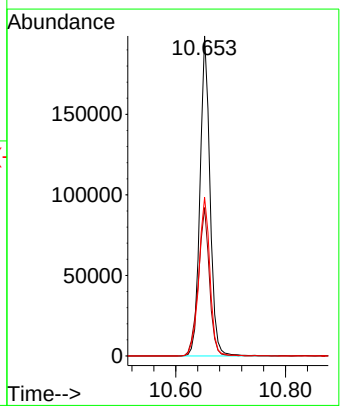


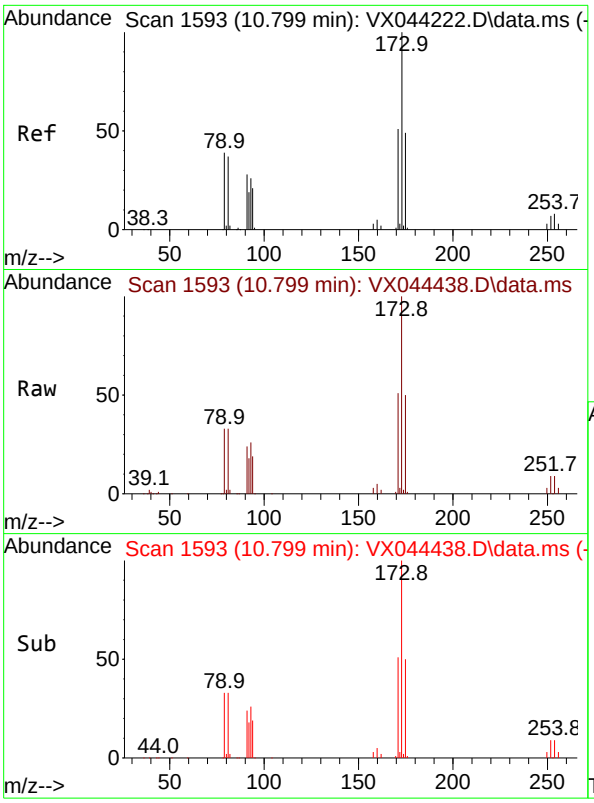


#70
Styrene
Concen: 57.862 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:104 Resp: 251875

Ion	Ratio	Lower	Upper
104	100		
78	51.5	44.6	67.0
103	54.8	45.4	68.0



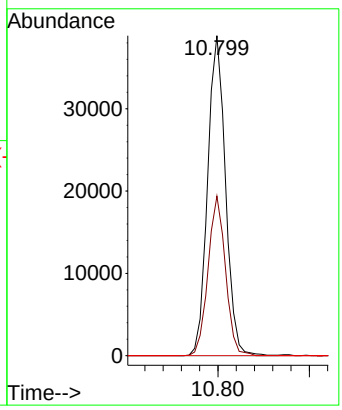


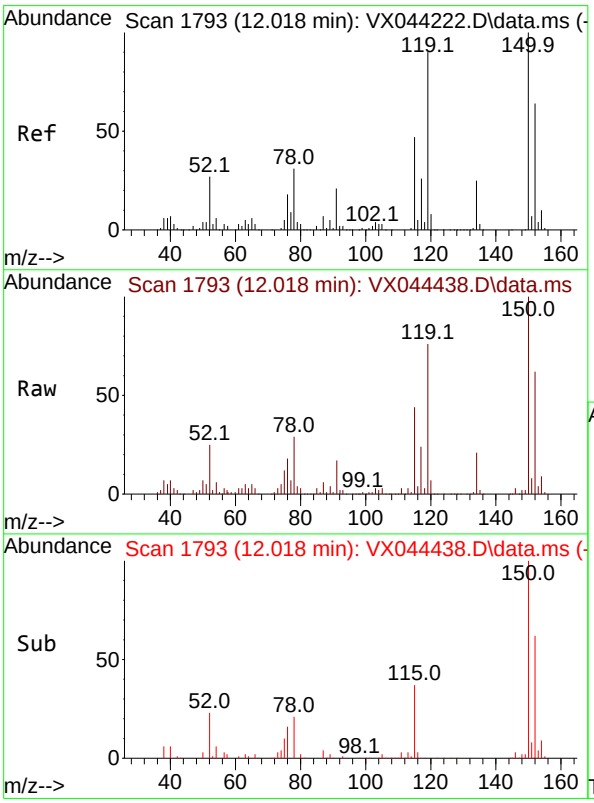
#71
Bromoform
Concen: 54.671 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 52602

Ion	Ratio	Lower	Upper
173	100		
175	48.7	23.8	71.4
254	0.0	0.0	0.0

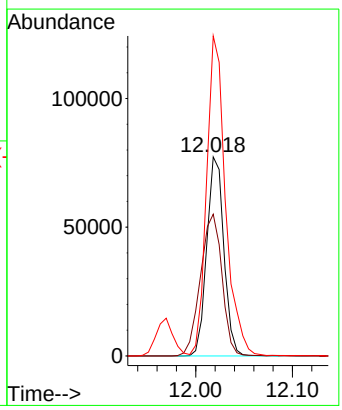


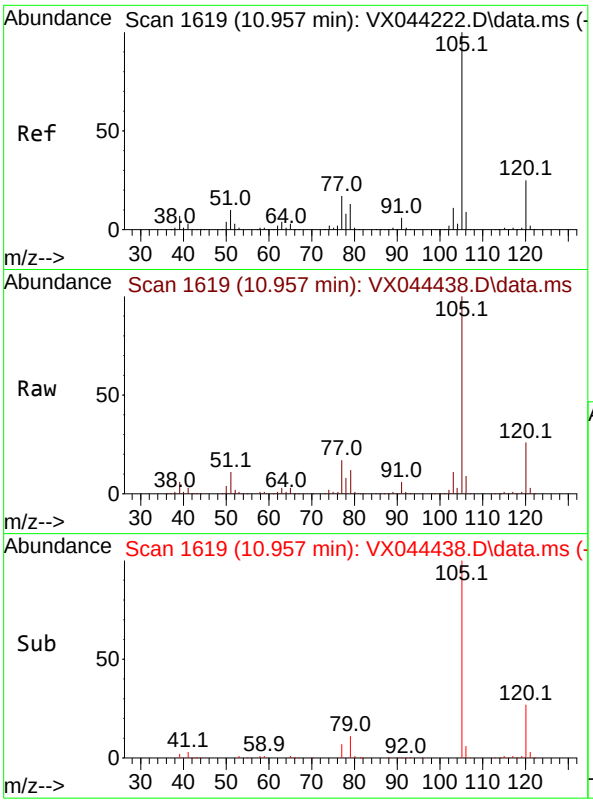


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:152 Resp: 95339

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.5	133.3
150	177.4	0.0	353.8



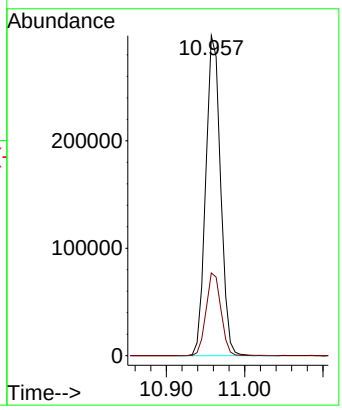


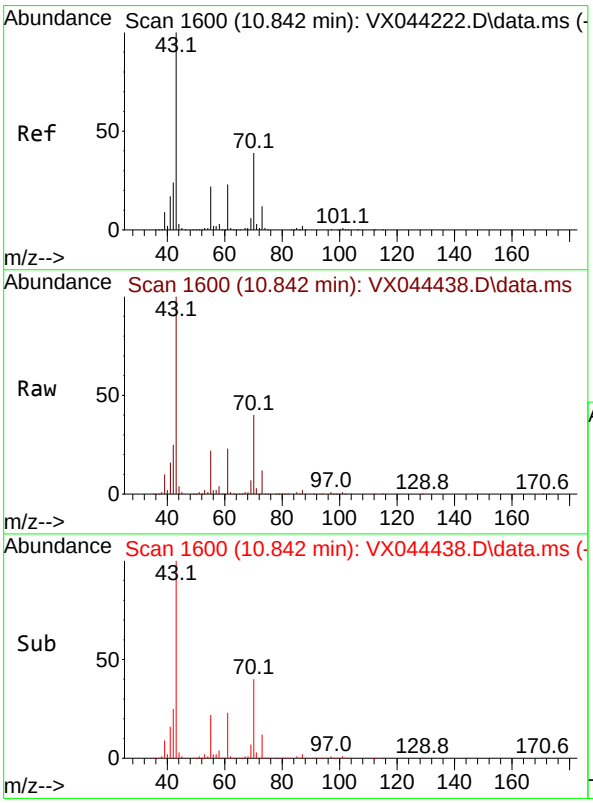
#73
Isopropylbenzene
Concen: 53.495 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 390438

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

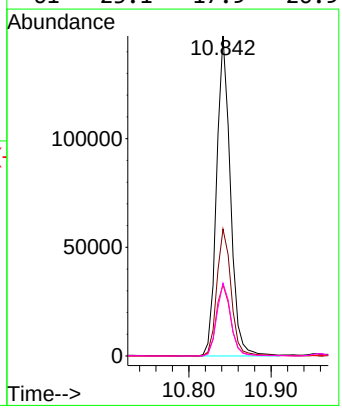


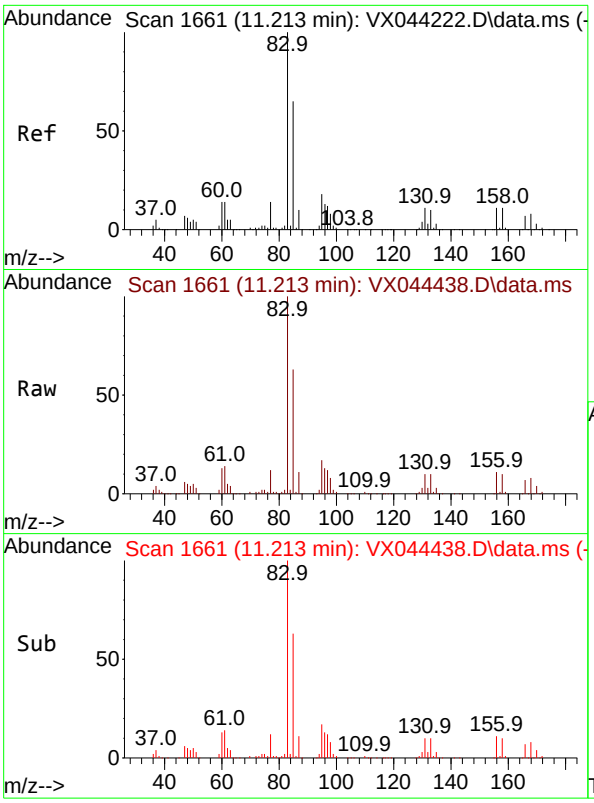


#74
N-amyl acetate
Concen: 50.885 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 43 Resp: 171638

Ion	Ratio	Lower	Upper
43	100		
70	41.1	31.9	47.9
55	23.7	17.9	26.9
61	23.1	17.9	26.9



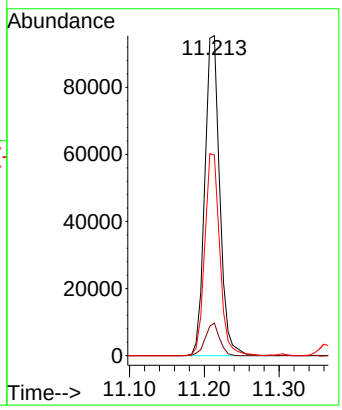


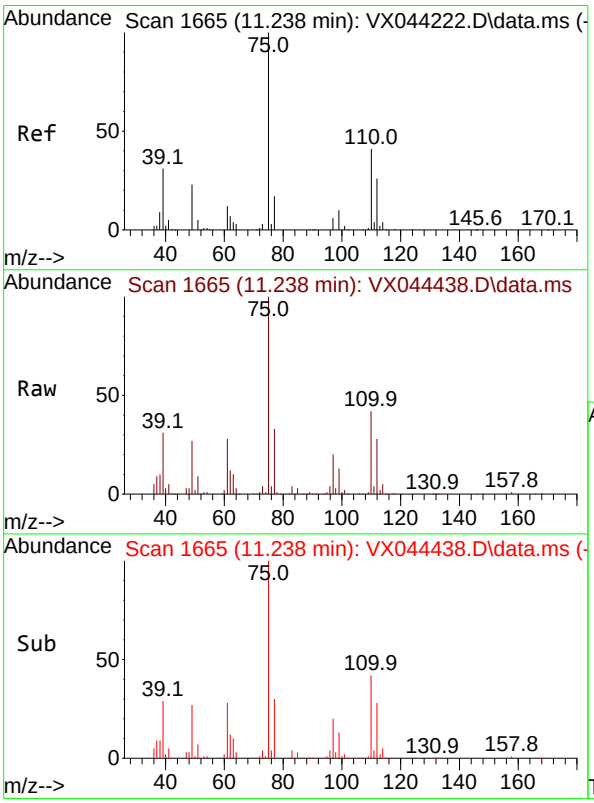
#75
1,1,2,2-Tetrachloroethane
Concen: 52.145 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 132190

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.4
85	63.4	32.5	97.4

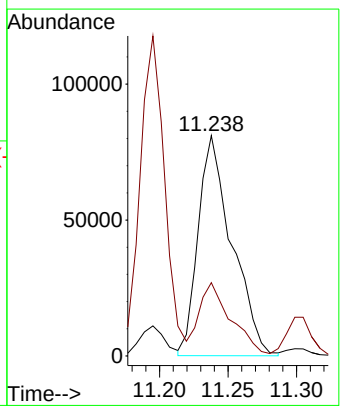


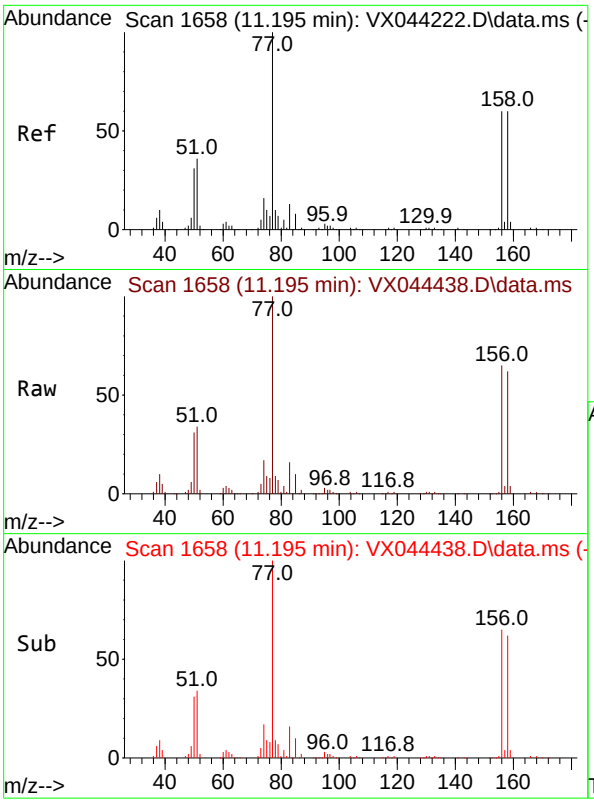


#76
1,2,3-Trichloropropane
Concen: 65.305 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 139014

Ion	Ratio	Lower	Upper
75	100		
77	31.7	20.9	62.7



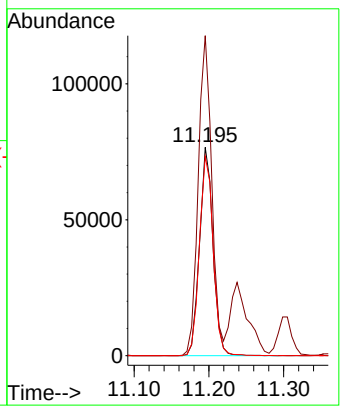


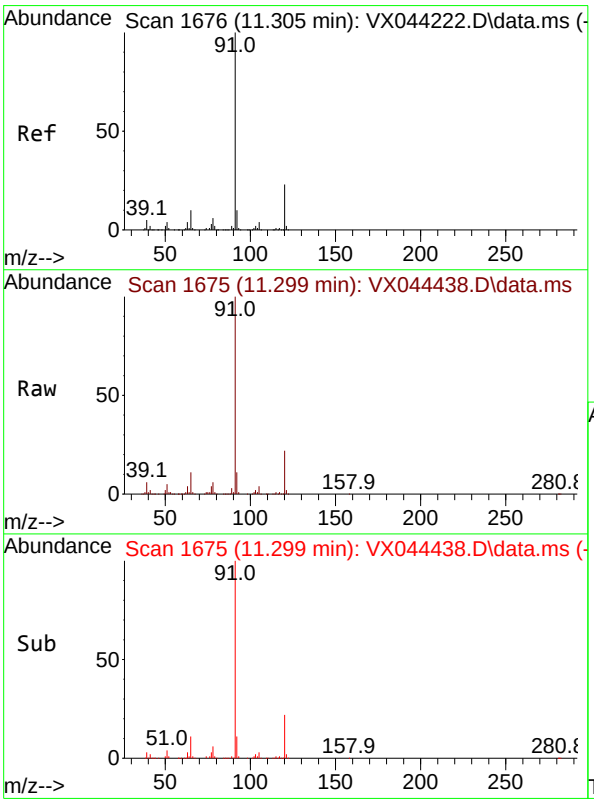
#77
Bromobenzene
Concen: 53.953 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 95489

Ion	Ratio	Lower	Upper
156	100		
77	155.1	82.6	247.8
158	98.5	48.8	146.4

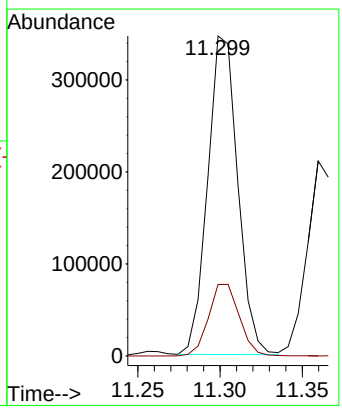


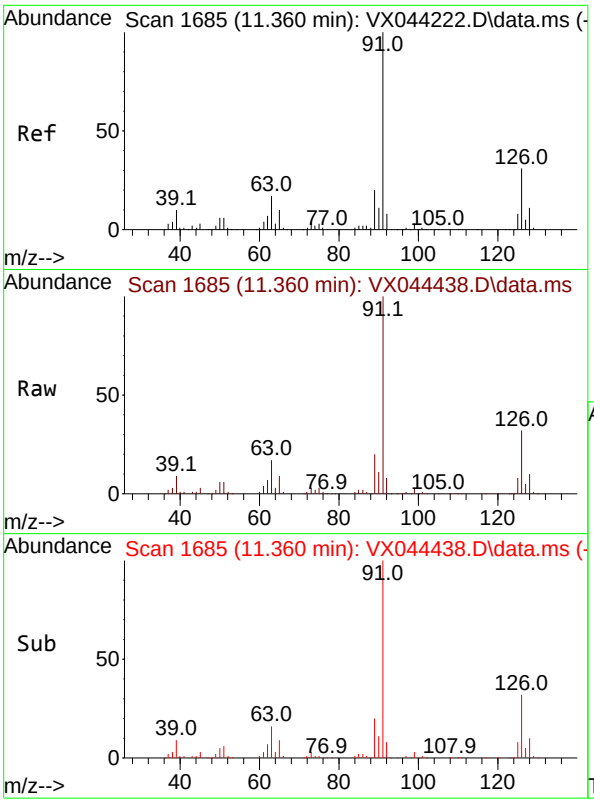


#78
n-propylbenzene
Concen: 54.741 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 441589

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.0	33.0



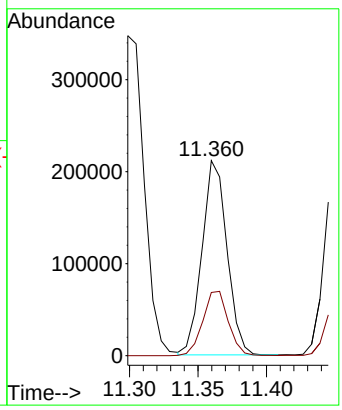


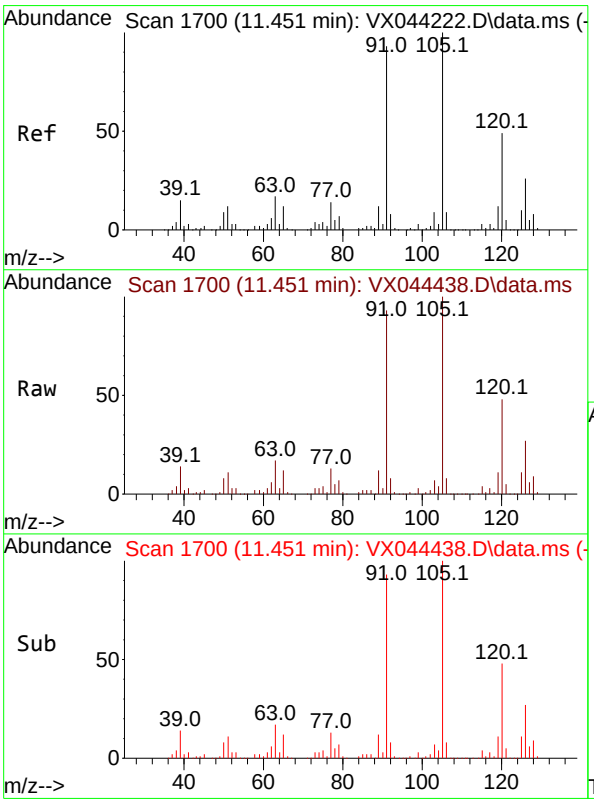
#79
2-Chlorotoluene
Concen: 51.311 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 267690

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.4	49.1

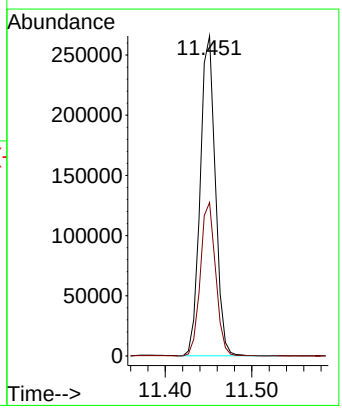


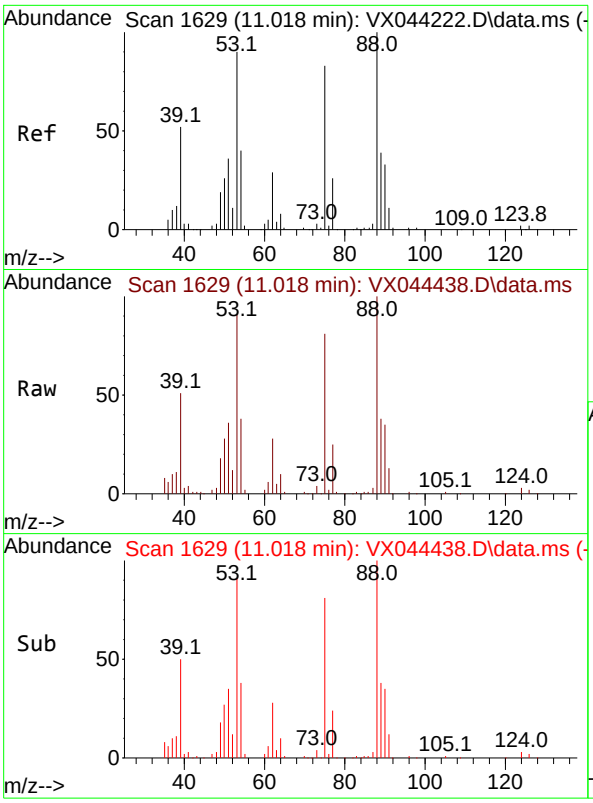


#80
1,3,5-Trimethylbenzene
Concen: 53.284 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 322510

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.8	71.4



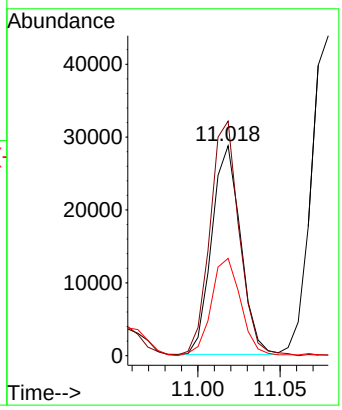


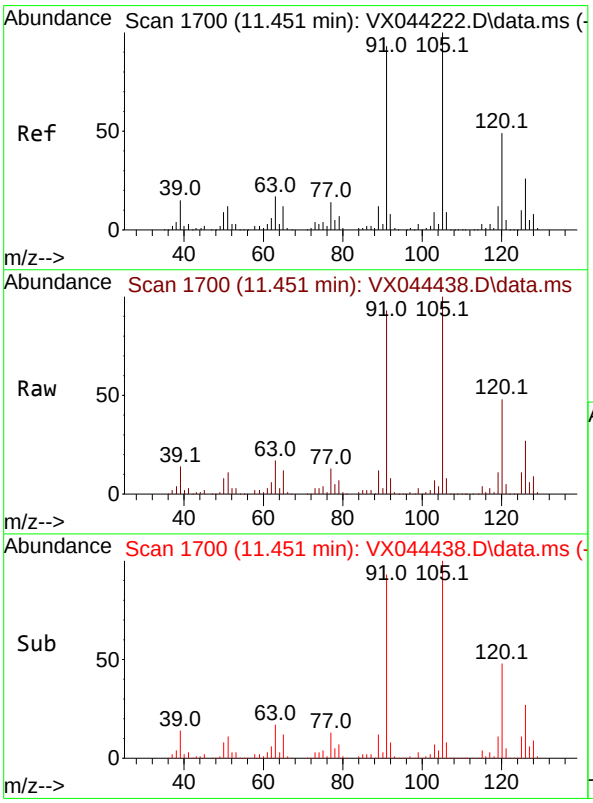
#81
trans-1,4-Dichloro-2-butene
Concen: 47.498 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 35051

Ion	Ratio	Lower	Upper
75	100		
53	114.3	93.6	140.4
89	47.8	37.3	55.9

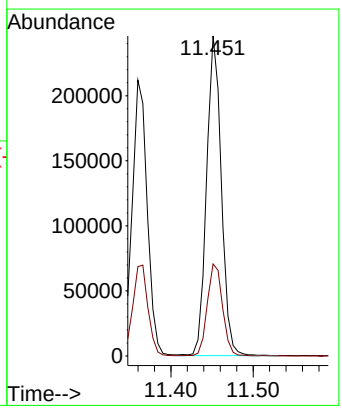


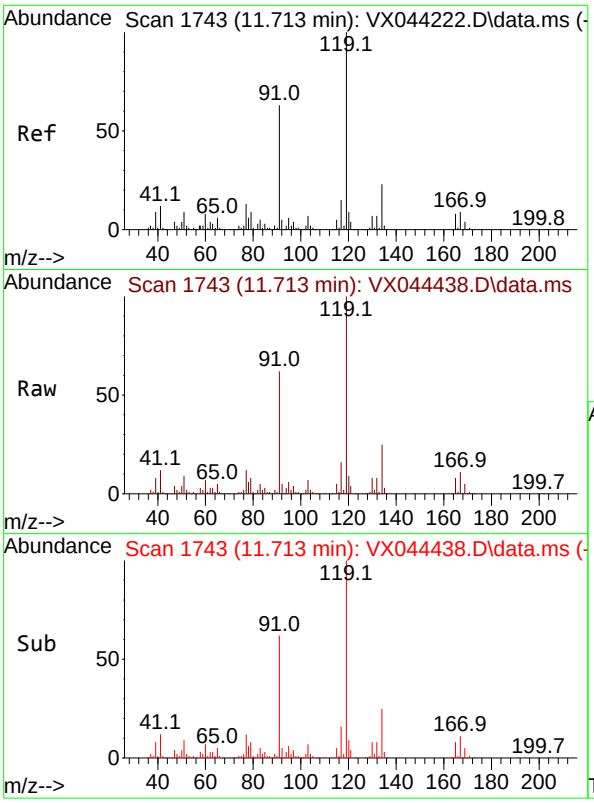


#82
4-Chlorotoluene
Concen: 52.929 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 91 Resp: 305777

Ion	Ratio	Lower	Upper
91	100		
126	29.7	14.5	43.5



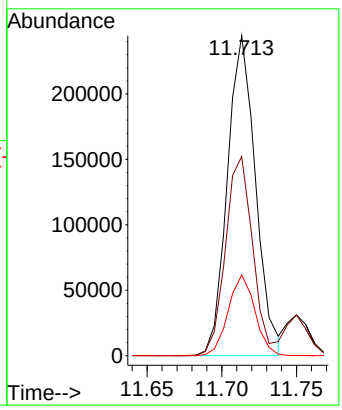


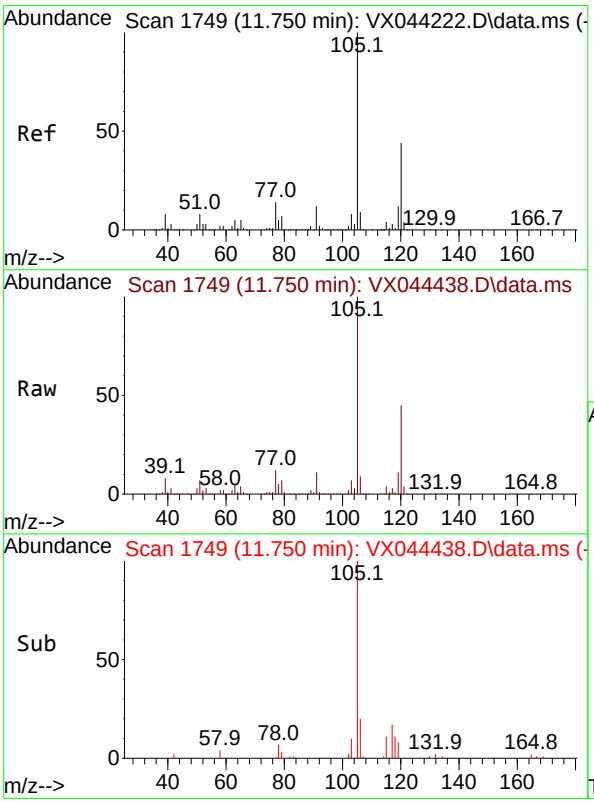
#83
tert-Butylbenzene
Concen: 53.600 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 320615

Ion	Ratio	Lower	Upper
119	100		
91	59.4	30.9	92.5
134	24.0	11.5	34.4

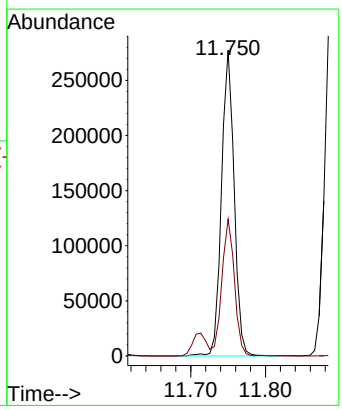


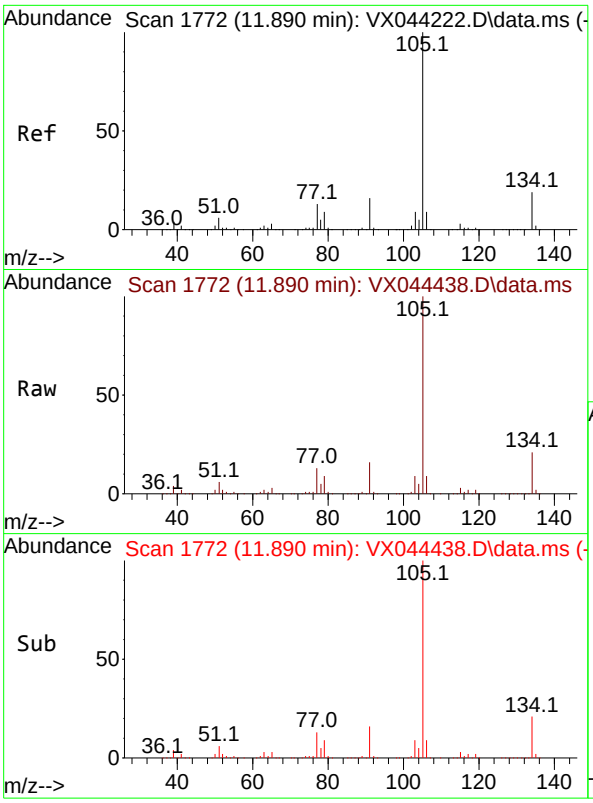


#84
1,2,4-Trimethylbenzene
Concen: 55.123 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:105 Resp: 327657

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1



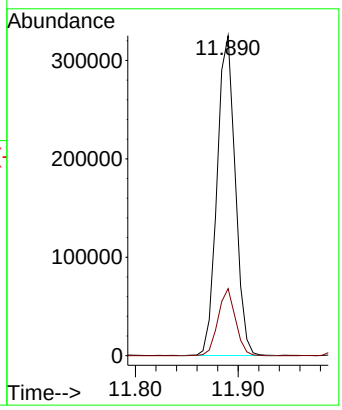


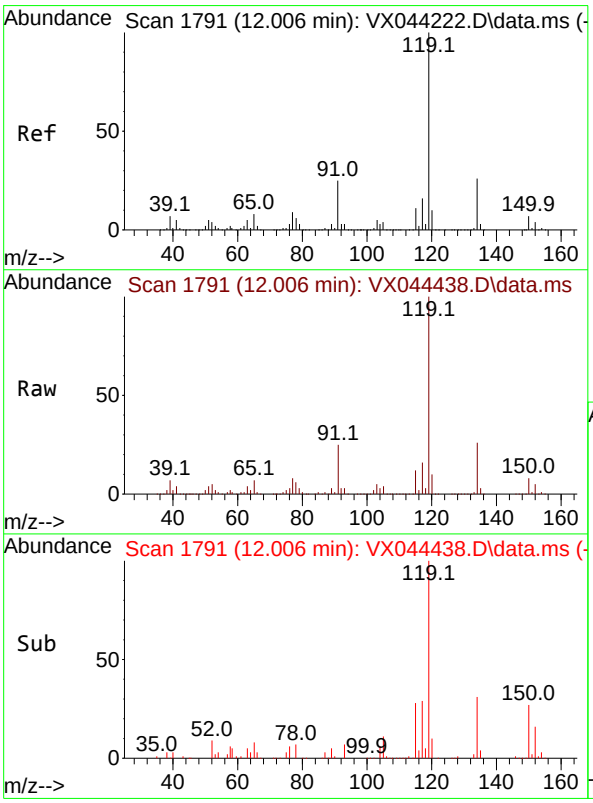
#85
sec-Butylbenzene
Concen: 54.989 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 399310

Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.4

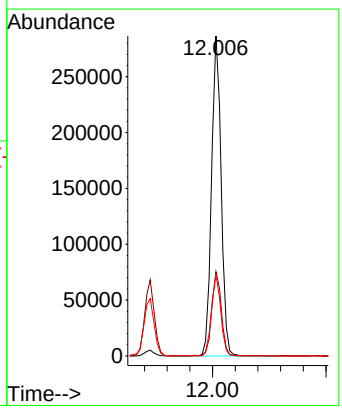


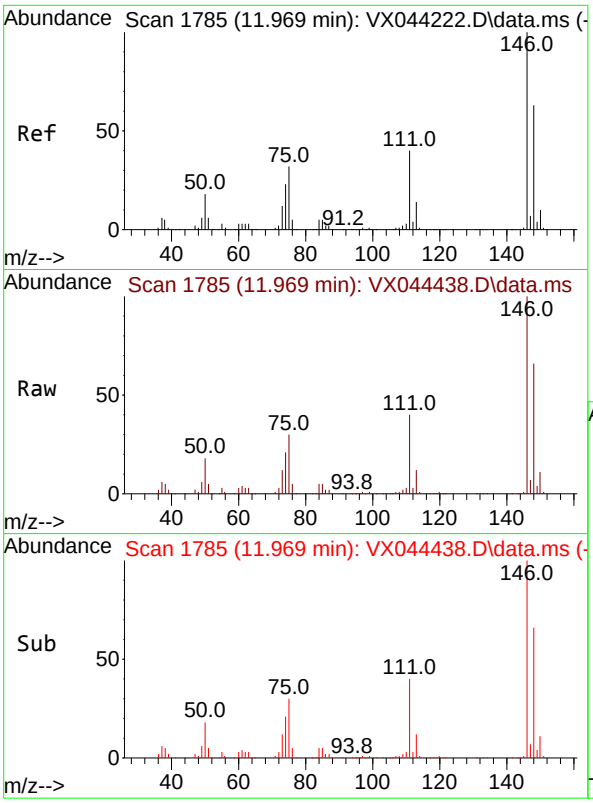


#86
p-Isopropyltoluene
Concen: 55.691 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:119 Resp: 336593

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.8	38.4
91	24.8	13.0	39.0



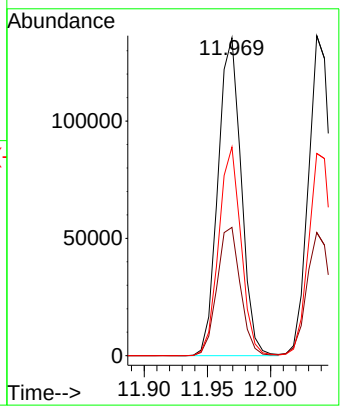


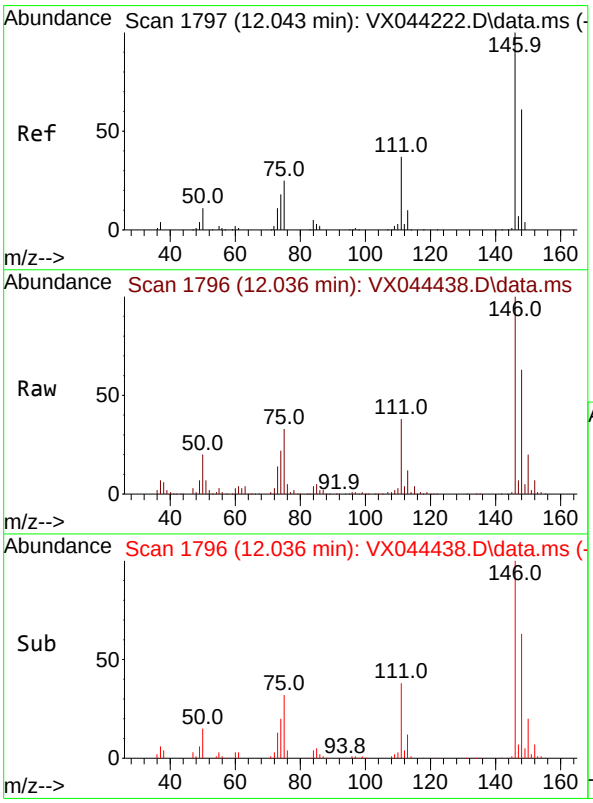
#87
1,3-Dichlorobenzene
Concen: 55.839 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 172628

Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.2
148	63.2	31.7	95.1

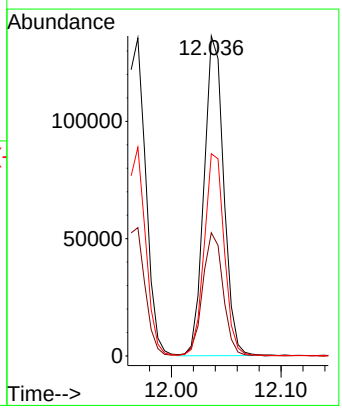


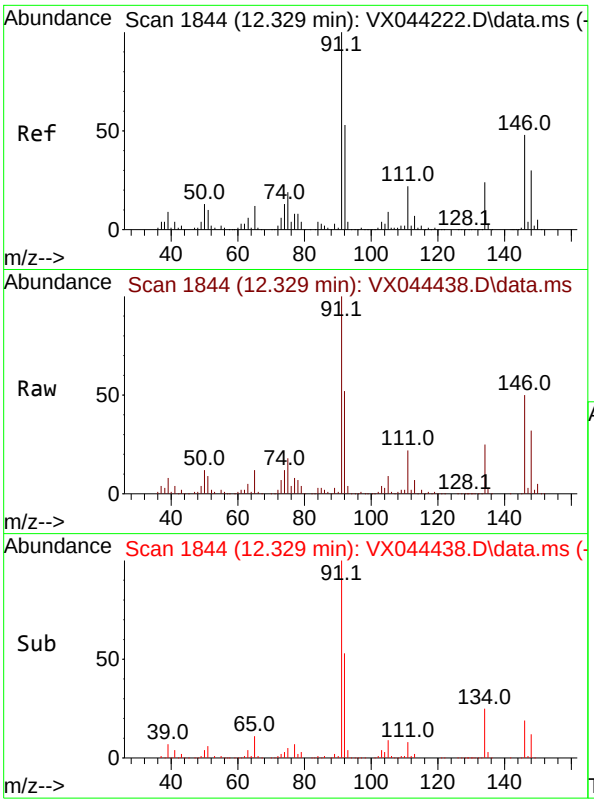


#88
1,4-Dichlorobenzene
Concen: 53.422 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:146 Resp: 169778

Ion	Ratio	Lower	Upper
146	100		
111	39.9	21.0	63.0
148	65.0	32.3	96.8



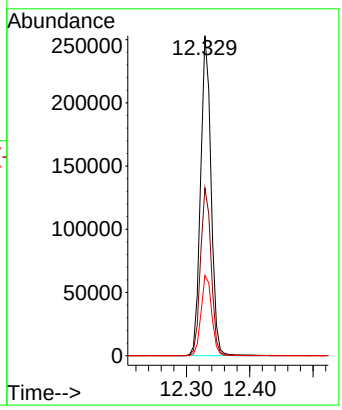


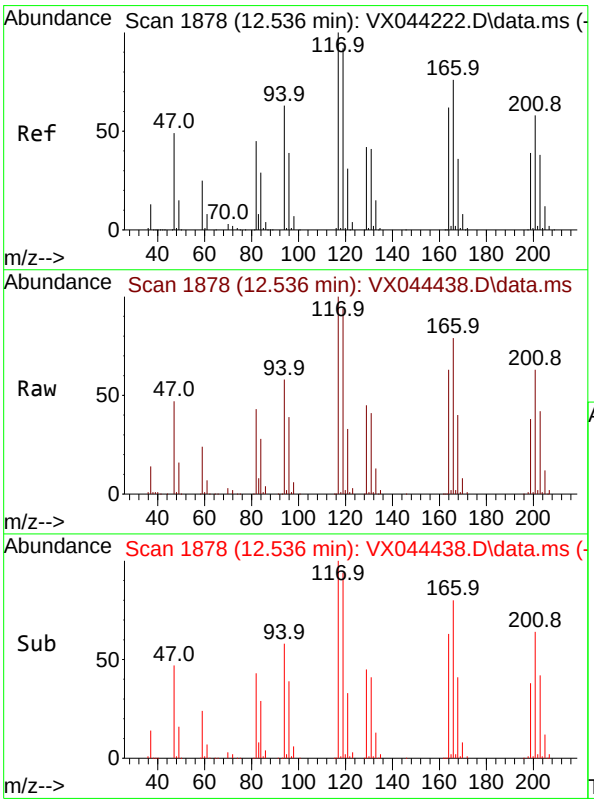
#89
n-Butylbenzene
Concen: 57.503 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 292244

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.7
134	25.5	12.6	37.8

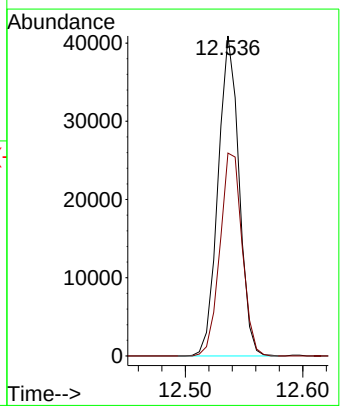


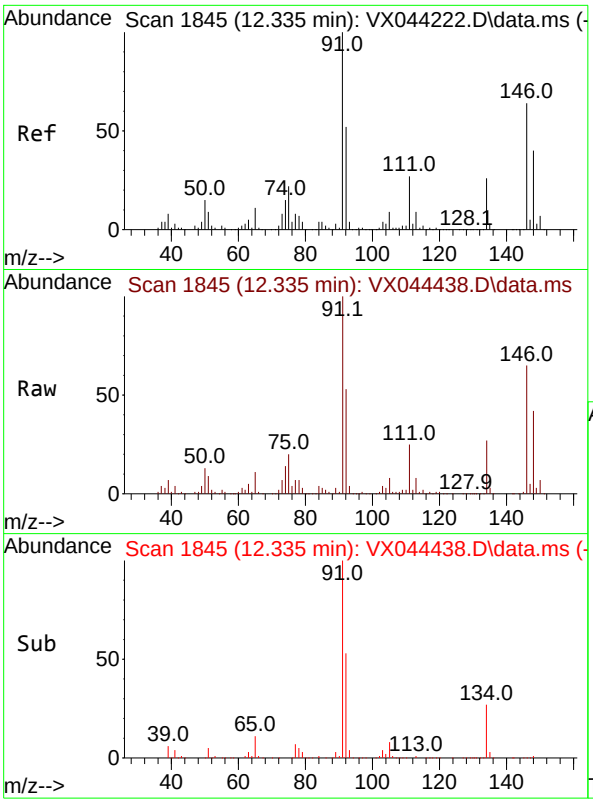


#90
Hexachloroethane
Concen: 57.385 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:117 Resp: 50629

Ion	Ratio	Lower	Upper
117	100		
201	67.2	31.4	94.2



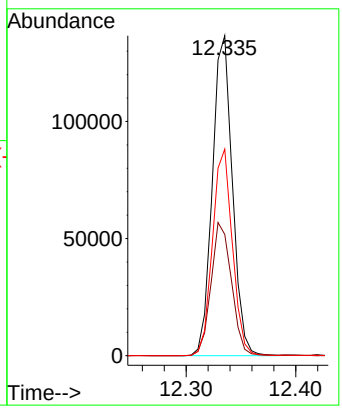


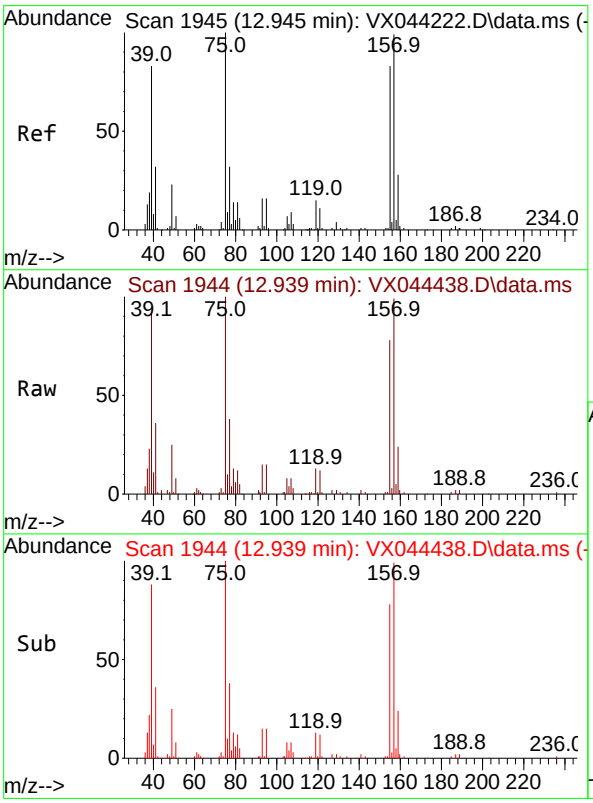
#91
1,2-Dichlorobenzene
Concen: 54.042 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 173478

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.4	64.3
148	64.2	31.6	95.0

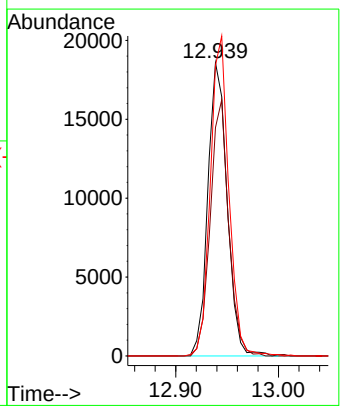


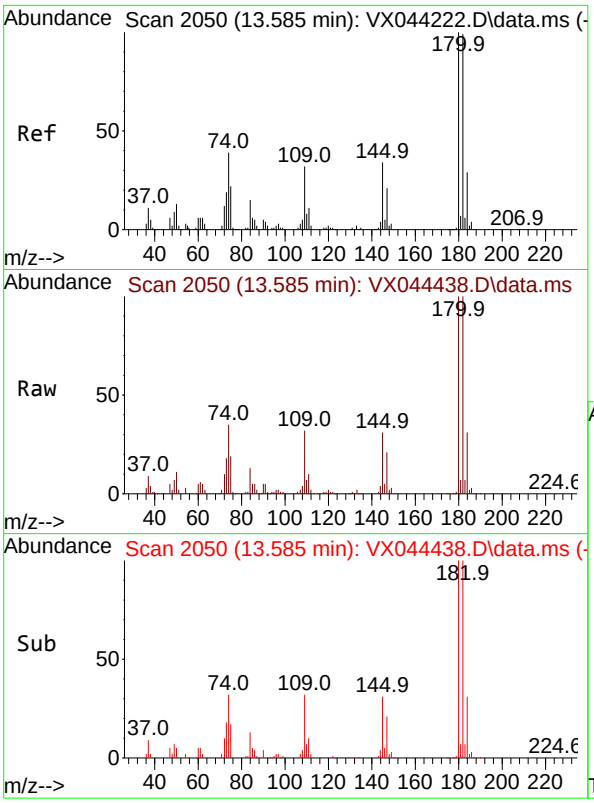


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.022 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion: 75 Resp: 24124

Ion	Ratio	Lower	Upper
75	100		
155	83.8	38.1	114.3
157	105.4	47.2	141.6



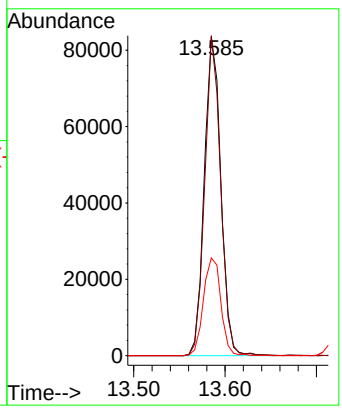


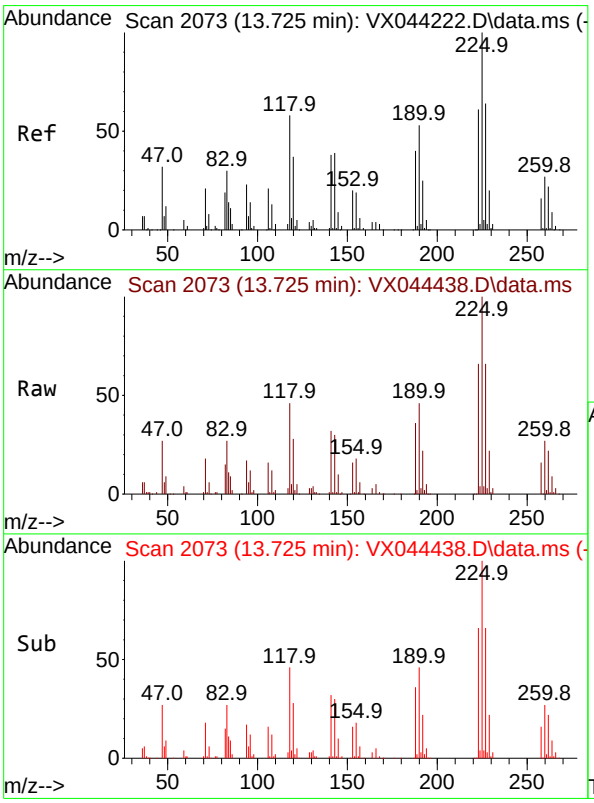
#93
1,2,4-Trichlorobenzene
Concen: 59.504 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 104720

Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.0	144.2
145	32.4	16.6	49.7

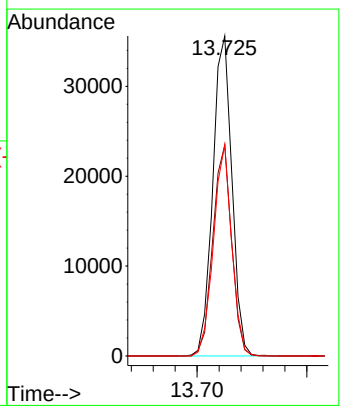


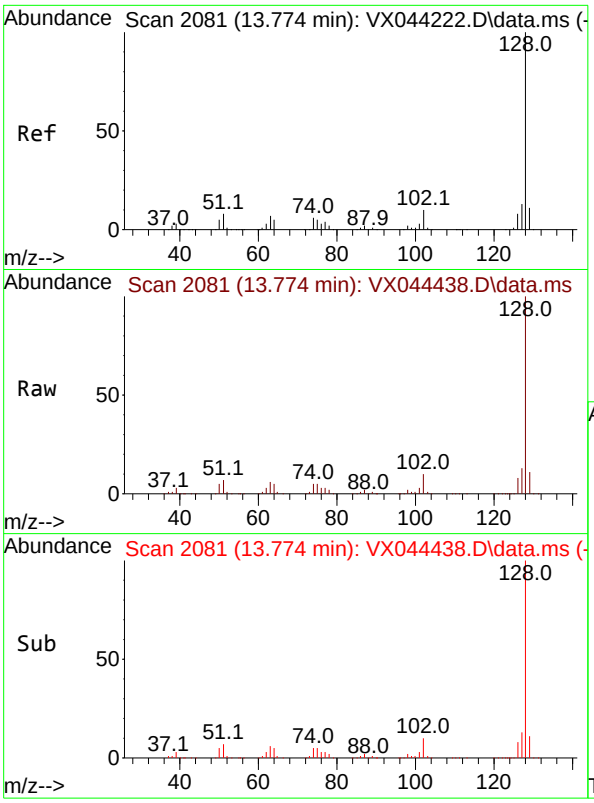


#94
Hexachlorobutadiene
Concen: 60.942 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:225 Resp: 43140

Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.8	92.4
227	63.1	32.1	96.3



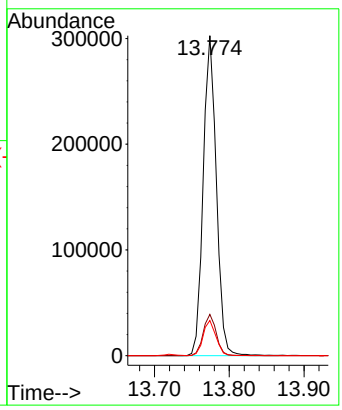


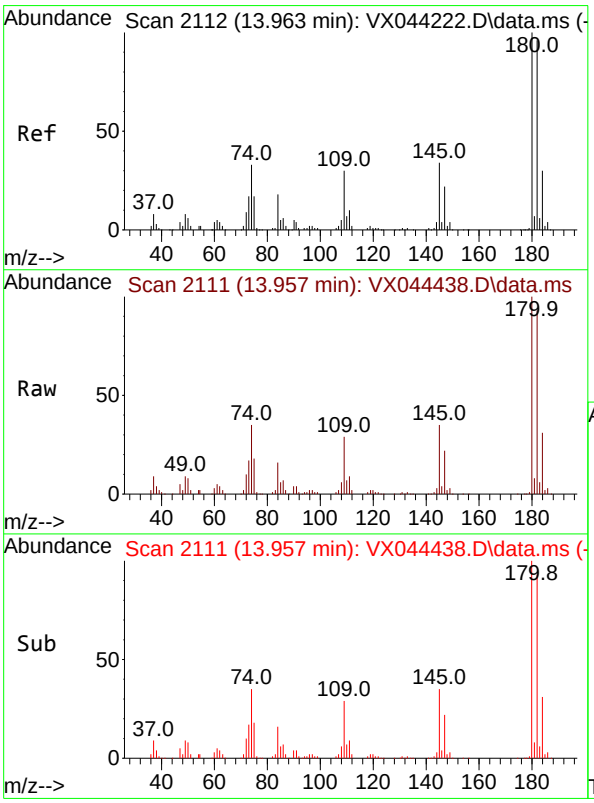
#95
Naphthalene
Concen: 53.772 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 369385

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.9	9.0	13.4

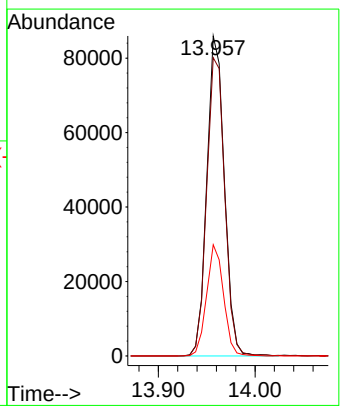




#96
1,2,3-Trichlorobenzene
Concen: 58.216 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044438.D
Acq: 20 Dec 2024 09:16

Tgt Ion:180 Resp: 108667

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	33.6	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	146515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	249173	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	212384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	96885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109691	42.700	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.400%			
35) Dibromofluoromethane	5.379	113	83769	48.541	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.080%			
50) Toluene-d8	8.647	98	283358	48.669	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.340%			
62) 4-Bromofluorobenzene	11.079	95	94485	46.443	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	41893	18.492	ug/l	95
3) Chloromethane	1.294	50	40546	18.715	ug/l	99
4) Vinyl Chloride	1.374	62	40370	17.887	ug/l	97
5) Bromomethane	1.599	94	30109	18.804	ug/l	96
6) Chloroethane	1.666	64	27776	19.764	ug/l	99
7) Trichlorofluoromethane	1.874	101	67604	15.300	ug/l	99
8) Diethyl Ether	2.136	74	26079	17.291	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	33030	18.474	ug/l	94
10) Methyl Iodide	2.447	142	45795	19.434	ug/l	96
11) Tert butyl alcohol	2.989	59	33237	91.803	ug/l	96
12) 1,1-Dichloroethene	2.312	96	30995	18.873	ug/l	96
13) Acrolein	2.239	56	44044	84.041	ug/l	96
14) Allyl chloride	2.660	41	49108	17.953	ug/l	96
15) Acrylonitrile	3.068	53	90872	90.610	ug/l	99
16) Acetone	2.386	43	79327	75.745	ug/l	91
17) Carbon Disulfide	2.501	76	51100	16.369	ug/l	100
18) Methyl Acetate	2.703	43	47831	17.713	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	112975	17.629	ug/l	97
20) Methylene Chloride	2.782	84	37654	19.142	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	32618	18.688	ug/l	96
22) Diisopropyl ether	3.763	45	110674	17.968	ug/l	97
23) Vinyl Acetate	3.721	43	456052	91.069	ug/l	99
24) 1,1-Dichloroethane	3.605	63	64973	18.923	ug/l	98
25) 2-Butanone	4.562	43	124008	83.289	ug/l	98
26) 2,2-Dichloropropane	4.471	77	51269	18.380	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	39842	17.974	ug/l	97
28) Bromochloromethane	4.891	49	26535	15.760	ug/l	97
29) Tetrahydrofuran	5.007	42	81181	84.947	ug/l	99
30) Chloroform	5.092	83	68227	17.686	ug/l	99
31) Cyclohexane	5.470	56	48875	17.628	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	55907	17.459	ug/l	98
36) 1,1-Dichloropropene	5.690	75	41416	18.566	ug/l	97
37) Ethyl Acetate	4.721	43	48014	17.412	ug/l	96
38) Carbon Tetrachloride	5.672	117	45386	18.898	ug/l	93
39) Methylcyclohexane	7.373	83	51554	19.332	ug/l	98
40) Benzene	6.031	78	137885	20.358	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	26859	18.343	ug/l		98
42) 1,2-Dichloroethane	6.086	62	53588	19.207	ug/l		97
43) Isopropyl Acetate	6.342	43	79207	18.378	ug/l		99
44) Trichloroethene	7.123	130	33615	19.902	ug/l		88
45) 1,2-Dichloropropane	7.427	63	33011	19.077	ug/l		97
46) Dibromomethane	7.580	93	26495	19.737	ug/l		95
47) Bromodichloromethane	7.818	83	44357	19.132	ug/l		98
48) Methyl methacrylate	7.690	41	36154	17.281	ug/l		94
49) 1,4-Dioxane	7.671	88	10158	292.846	ug/l	#	79
51) 4-Methyl-2-Pentanone	8.574	43	255984	92.373	ug/l		99
52) Toluene	8.714	92	82957	19.504	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	41417	17.860	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	48359	19.157	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	35148	20.801	ug/l		96
56) Ethyl methacrylate	9.116	69	48642	18.235	ug/l		100
57) 1,3-Dichloropropane	9.305	76	56644	19.260	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.238	63	109022	81.033	ug/l		99
59) 2-Hexanone	9.433	43	181241	90.356	ug/l		99
60) Dibromochloromethane	9.518	129	31411	18.848	ug/l		99
61) 1,2-Dibromoethane	9.610	107	34801	20.234	ug/l		100
64) Tetrachloroethene	9.269	164	29267	20.762	ug/l		96
65) Chlorobenzene	10.079	112	90589	19.906	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	30193	20.643	ug/l		99
67) Ethyl Benzene	10.189	91	151105	19.217	ug/l		100
68) m/p-Xylenes	10.299	106	114910	39.825	ug/l		97
69) o-Xylene	10.640	106	57794	19.797	ug/l		95
70) Styrene	10.652	104	92784	19.825	ug/l		96
71) Bromoform	10.799	173	17659	19.275	ug/l	#	97
73) Isopropylbenzene	10.963	105	147393	19.872	ug/l		99
74) N-amyl acetate	10.841	43	61829	18.038	ug/l		97
75) 1,1,2,2-Tetrachloroethane	11.213	83	50416	19.570	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	49769	23.007	ug/l		88
77) Bromobenzene	11.195	156	36233	20.145	ug/l		95
78) n-propylbenzene	11.299	91	162028	19.765	ug/l		98
79) 2-Chlorotoluene	11.360	91	102209	19.279	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	121225	19.709	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	11072	18.609	ug/l		91
82) 4-Chlorotoluene	11.451	91	112263	19.122	ug/l		97
83) tert-Butylbenzene	11.713	119	120518	19.827	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	121322	20.085	ug/l		98
85) sec-Butylbenzene	11.890	105	143732	19.477	ug/l		100
86) p-Isopropyltoluene	12.006	119	120356	19.596	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	63016	20.058	ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	64444	19.954	ug/l		98
89) n-Butylbenzene	12.329	91	94402	18.279	ug/l		97
90) Hexachloroethane	12.536	117	16712	18.640	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	64584	19.798	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8263	16.523	ug/l		90
93) 1,2,4-Trichlorobenzene	13.585	180	34820	19.470	ug/l		97
94) Hexachlorobutadiene	13.725	225	15232	21.174	ug/l		99
95) Naphthalene	13.774	128	124472	17.830	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	36757	19.378	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

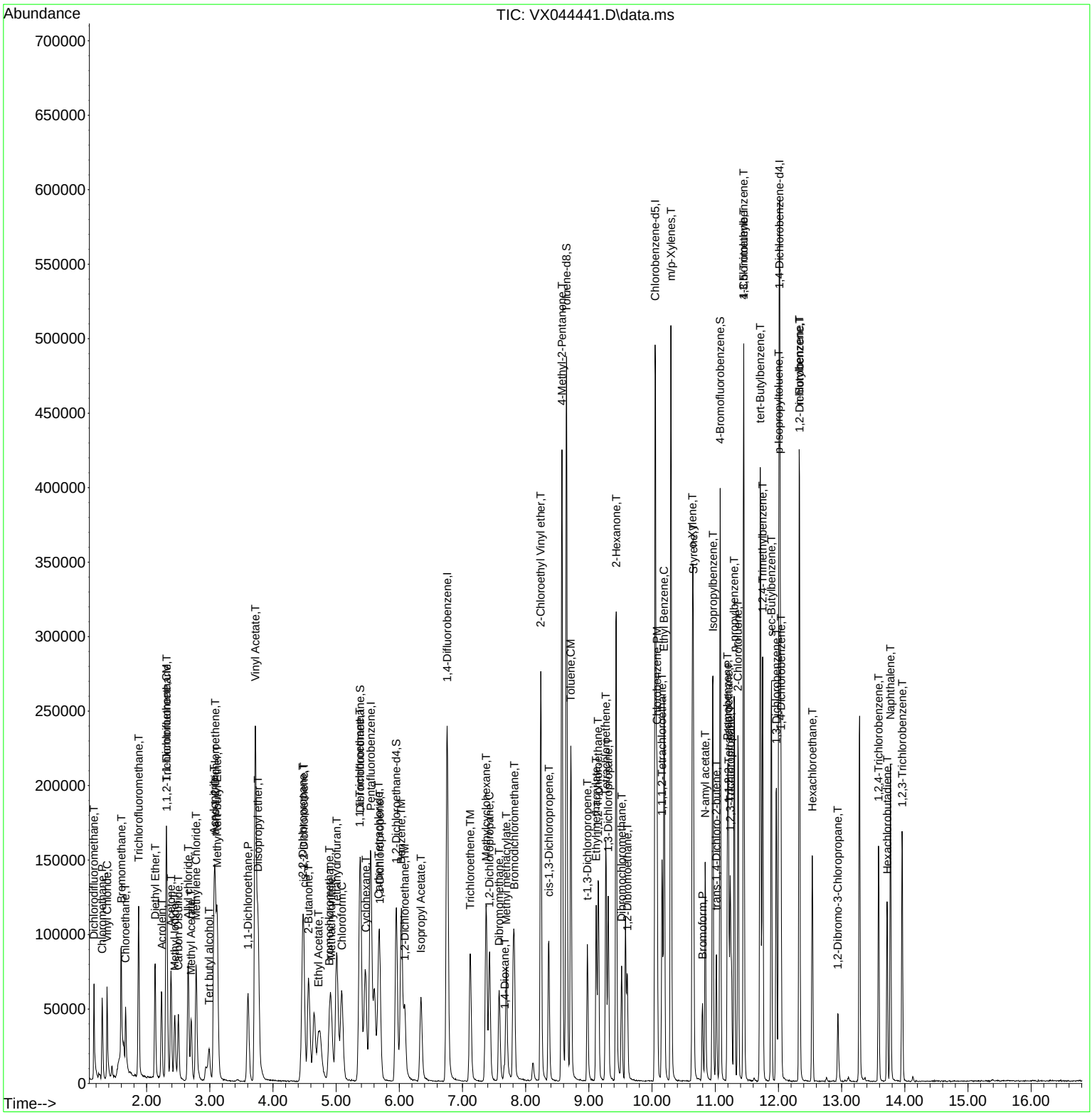
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

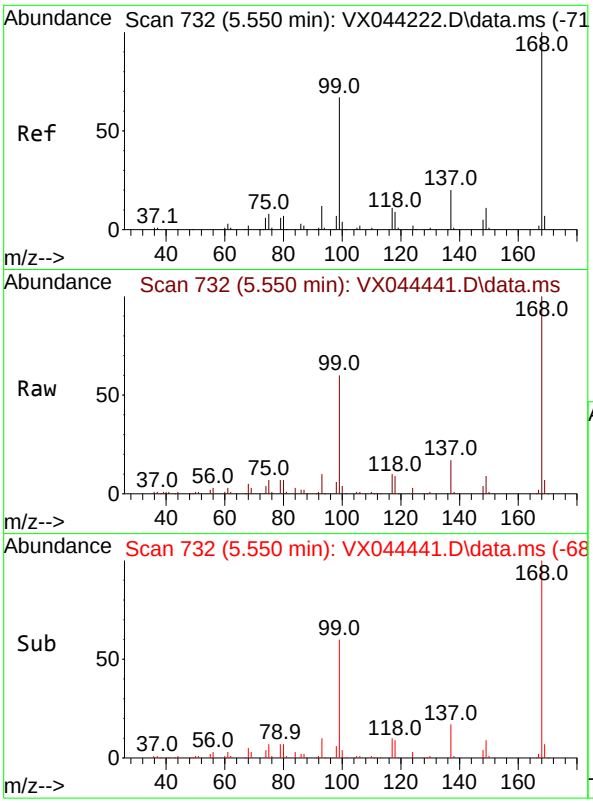
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044441.D
Acq On : 20 Dec 2024 10:46
Operator : JC/MD
Sample : VX1220WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Quant Time: Dec 20 22:21:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



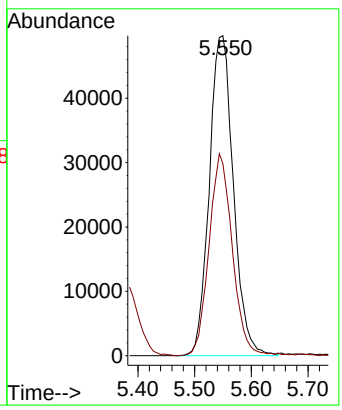


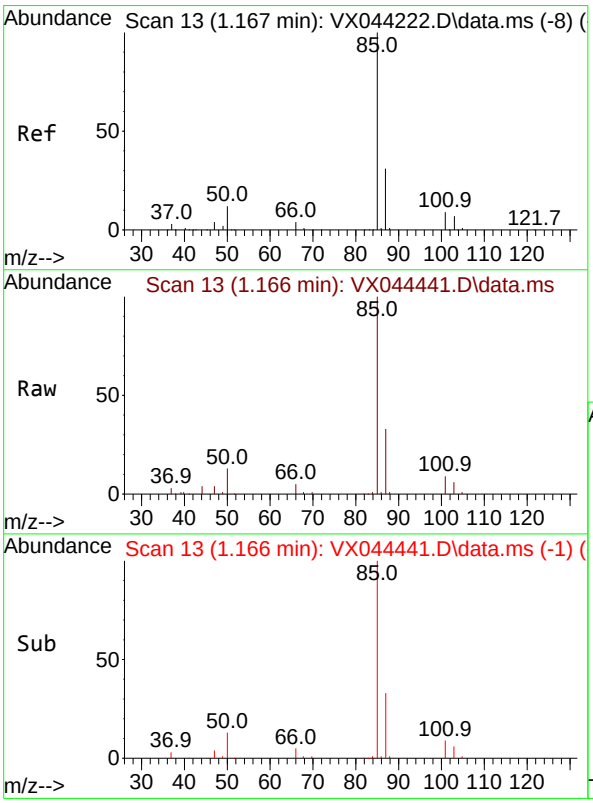
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:168 Resp: 146515

Ion	Ratio	Lower	Upper
168	100		
99	60.1	53.4	80.0

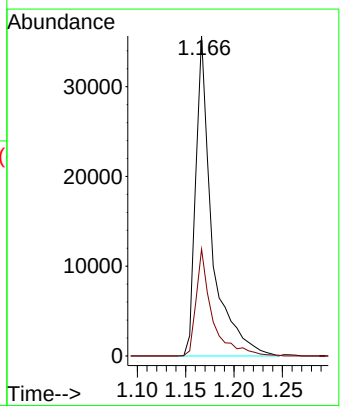


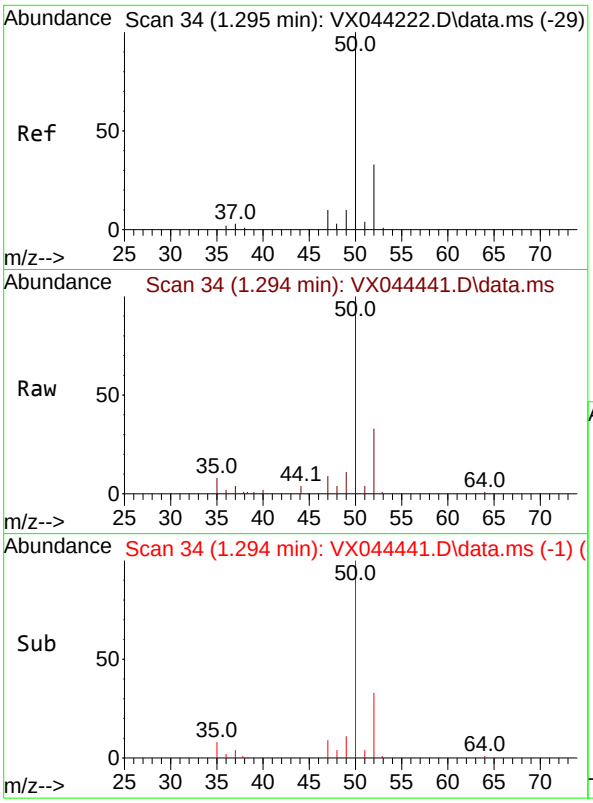


#2
Dichlorodifluoromethane
Concen: 18.492 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 85 Resp: 41893

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.4	46.4



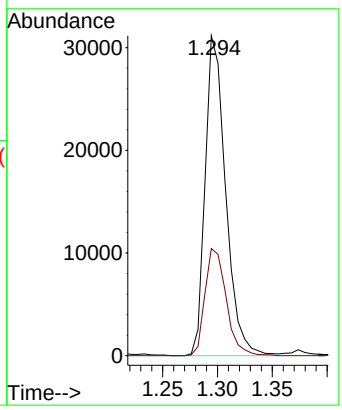


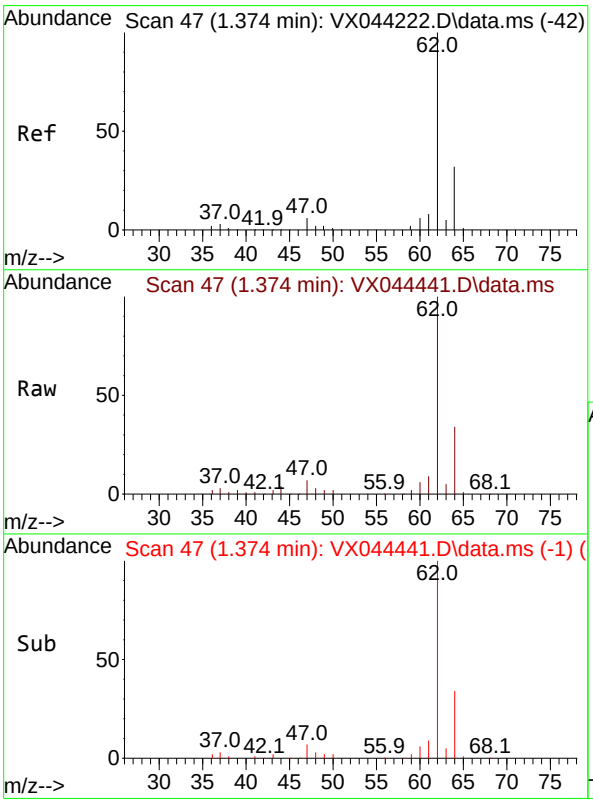
#3
Chloromethane
Concen: 18.715 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 50 Resp: 40546

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7

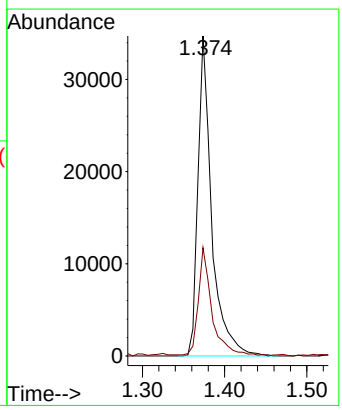


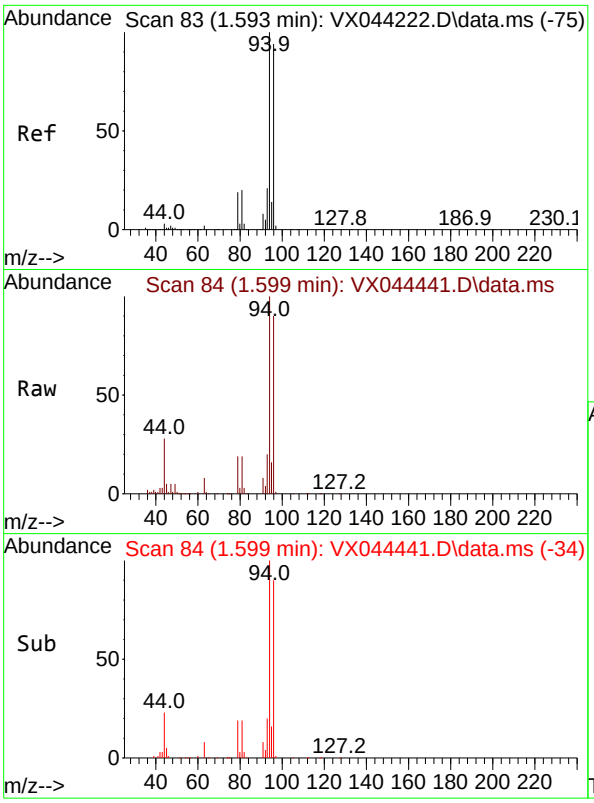


#4
Vinyl Chloride
Concen: 17.887 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 40370

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.7	38.5



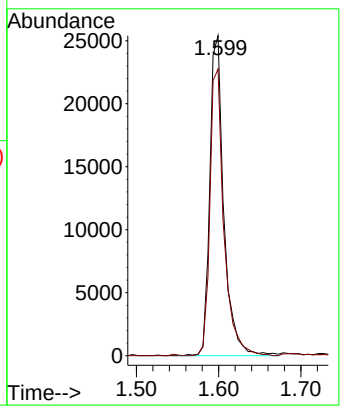


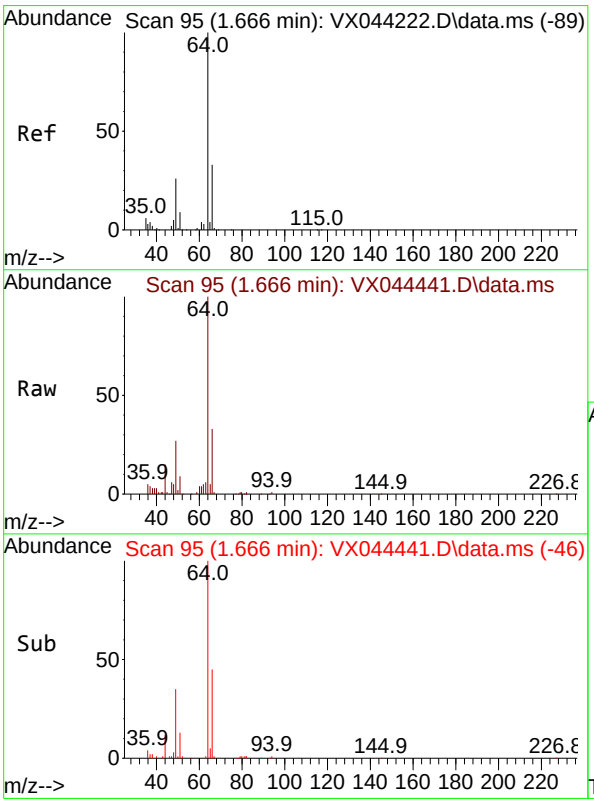
#5
Bromomethane
Concen: 18.804 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 94 Resp: 30109

Ion	Ratio	Lower	Upper
94	100		
96	89.5	74.9	112.3

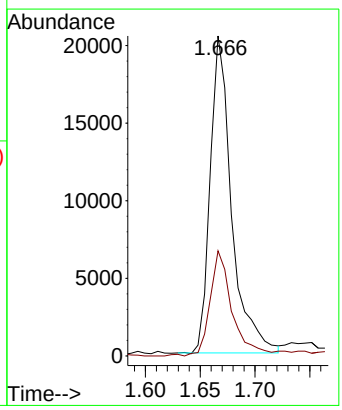


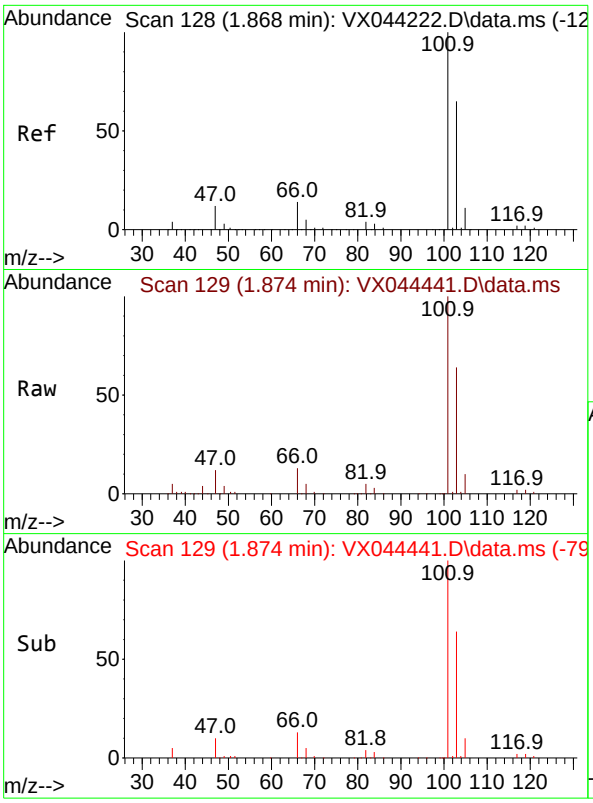


#6
Chloroethane
Concen: 19.764 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 64 Resp: 27776

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.6	39.8



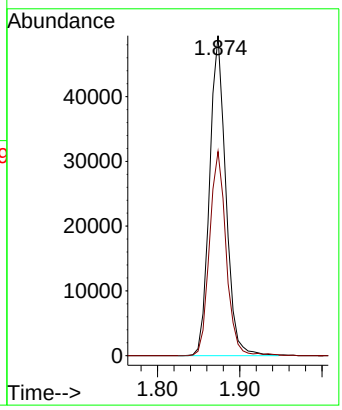


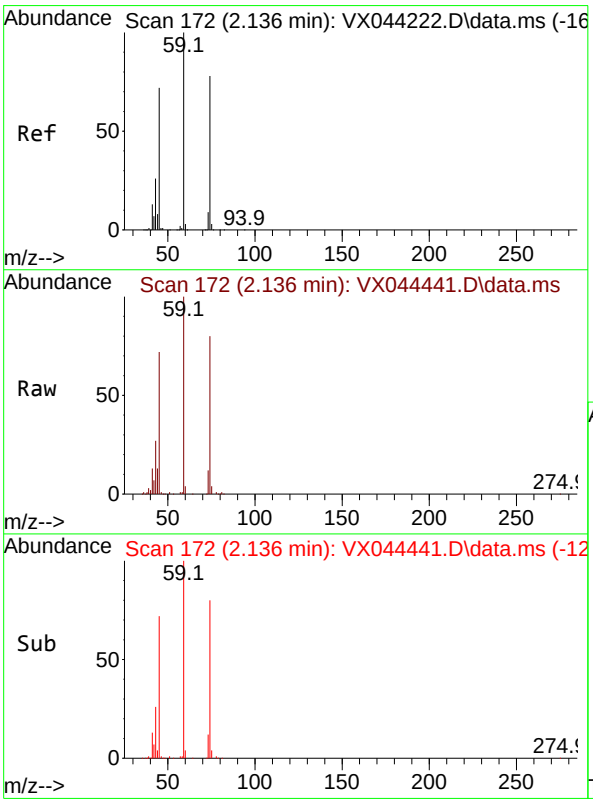
#7
Trichlorofluoromethane
Concen: 15.300 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:101 Resp: 67604

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.8	77.8

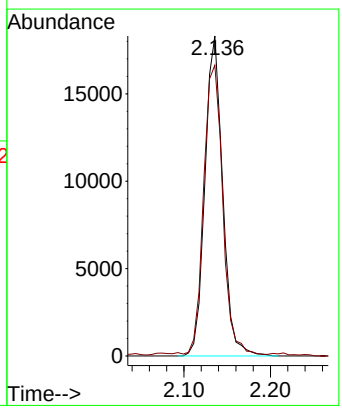


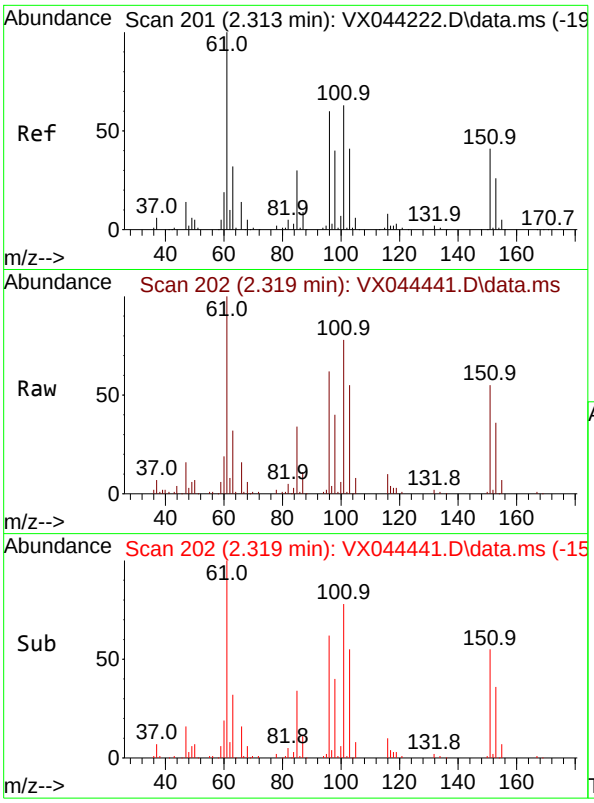


#8
Diethyl Ether
Concen: 17.291 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 74 Resp: 26079

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.4	145.0



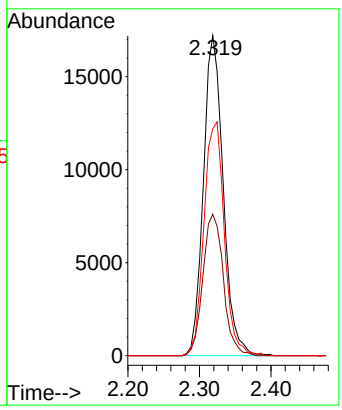


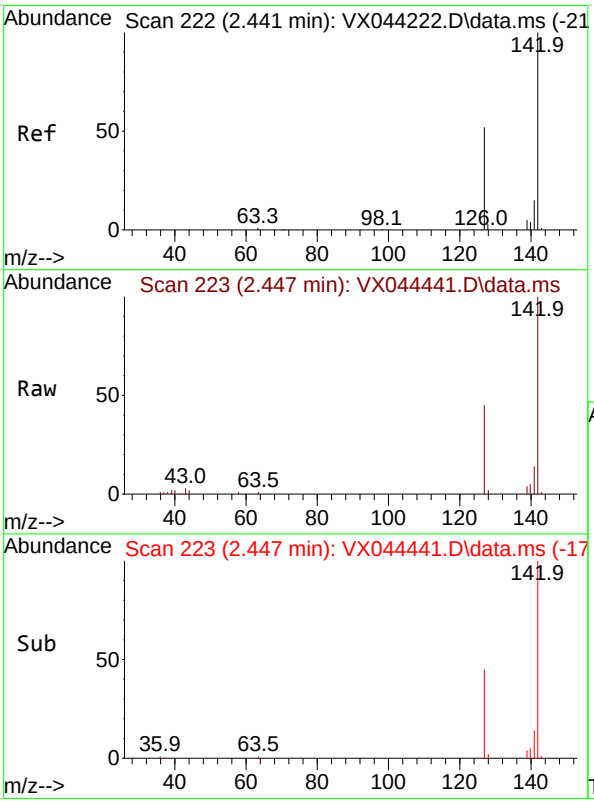
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.474 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:101 Resp: 33030

Ion	Ratio	Lower	Upper
101	100		
85	45.8	38.5	57.7
151	75.4	55.8	83.6

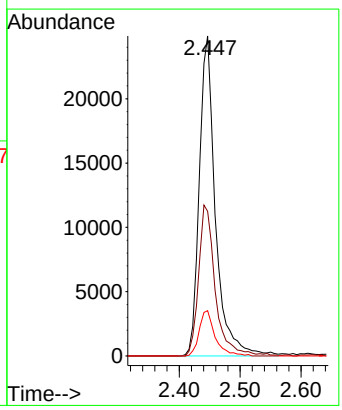


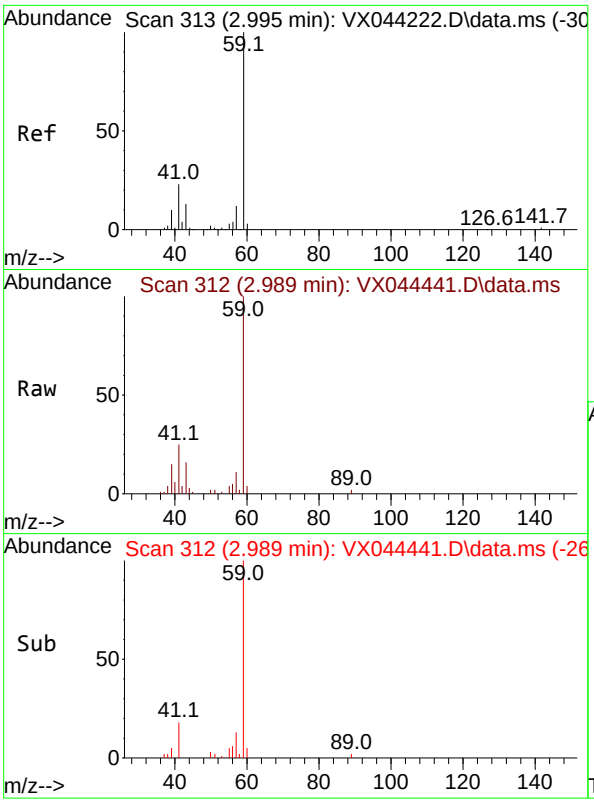


#10
Methyl Iodide
Concen: 19.434 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:142 Resp: 45795

Ion	Ratio	Lower	Upper
142	100		
127	48.9	41.8	62.8
141	14.0	11.5	17.3



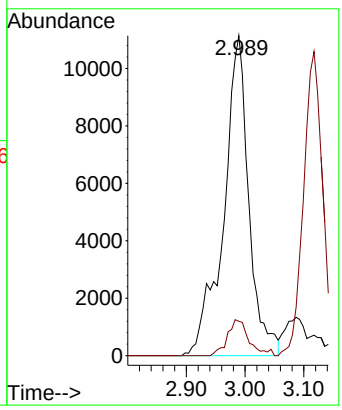


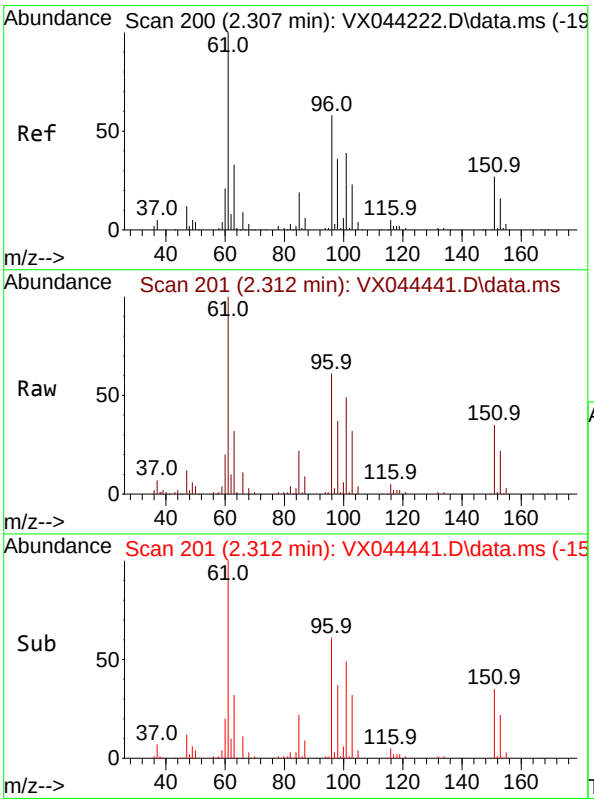
#11
Tert butyl alcohol
Concen: 91.803 ug/l
RT: 2.989 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 59 Resp: 33237

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.8	13.2

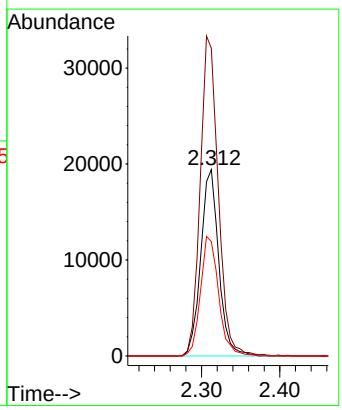


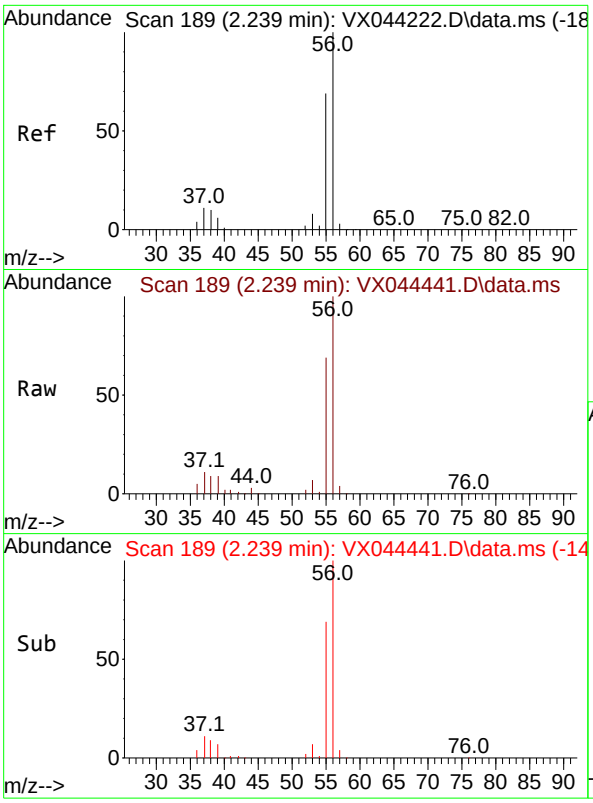


#12
1,1-Dichloroethene
Concen: 18.873 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 96 Resp: 30995

Ion	Ratio	Lower	Upper
96	100		
61	165.0	138.0	207.0
98	61.4	50.0	75.0



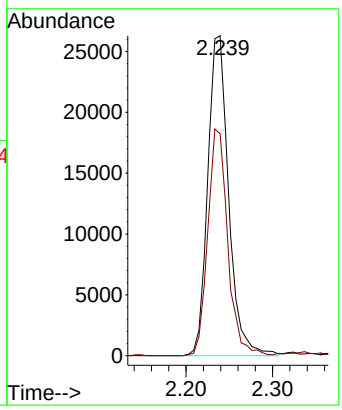


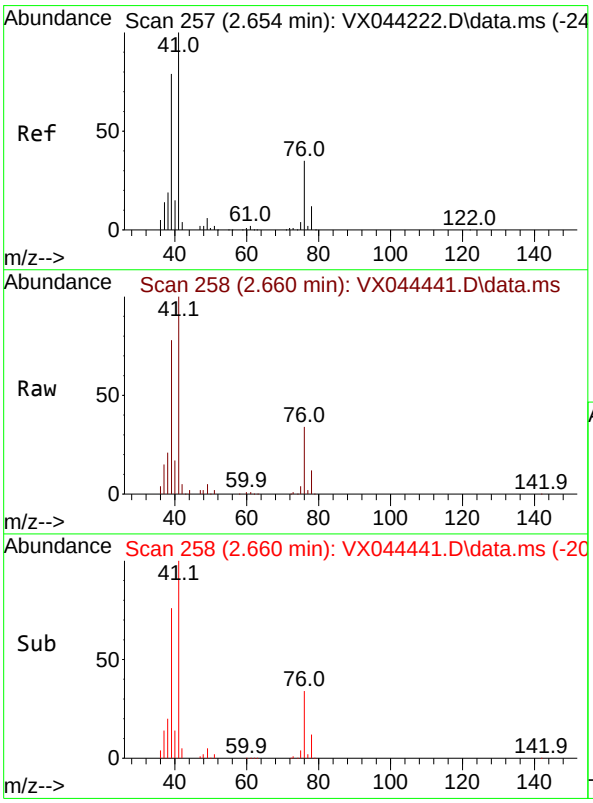
#13
Acrolein
Concen: 84.041 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 56 Resp: 44044

Ion	Ratio	Lower	Upper
56	100		
55	67.7	56.6	84.8

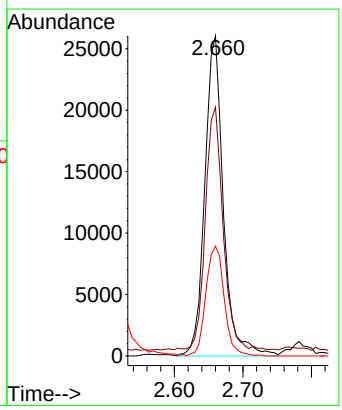


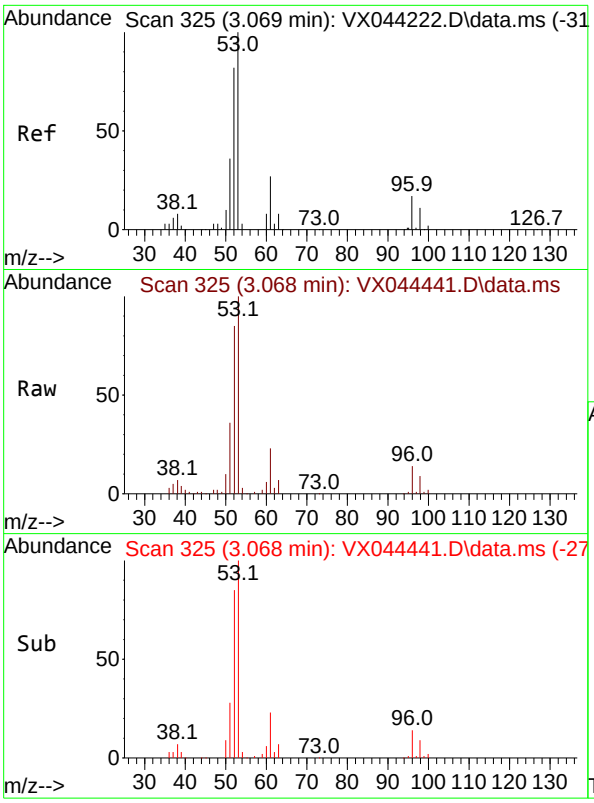


#14
Allyl chloride
Concen: 17.953 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 49108

Ion	Ratio	Lower	Upper
41	100		
39	73.3	61.9	92.9
76	33.9	27.4	41.2



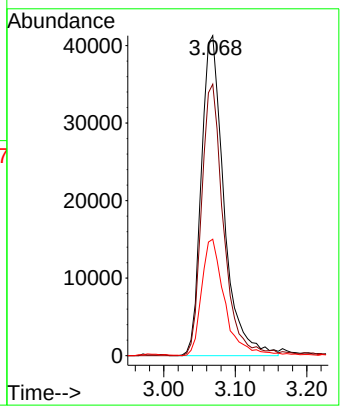


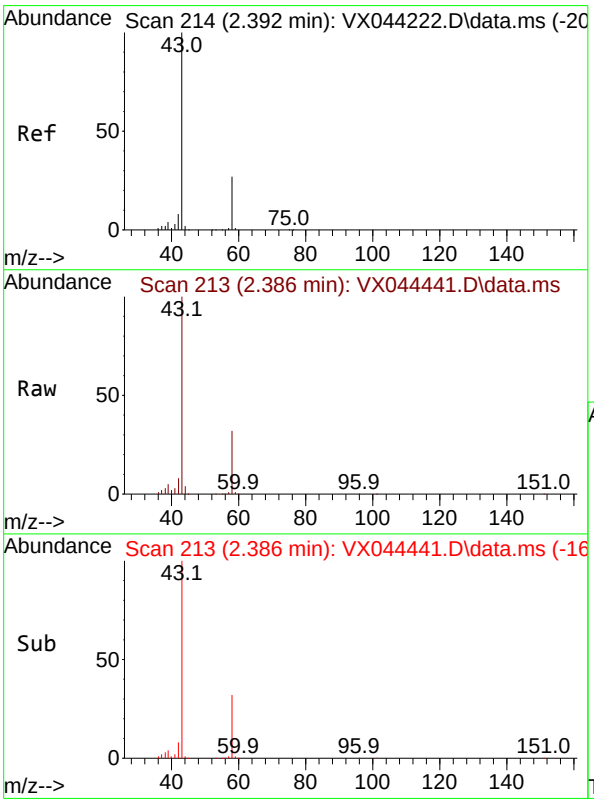
#15
Acrylonitrile
Concen: 90.610 ug/l
RT: 3.068 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 53 Resp: 90872

Ion	Ratio	Lower	Upper
53	100		
52	82.8	67.4	101.0
51	37.6	30.3	45.5

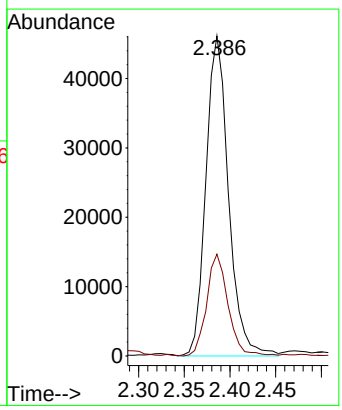


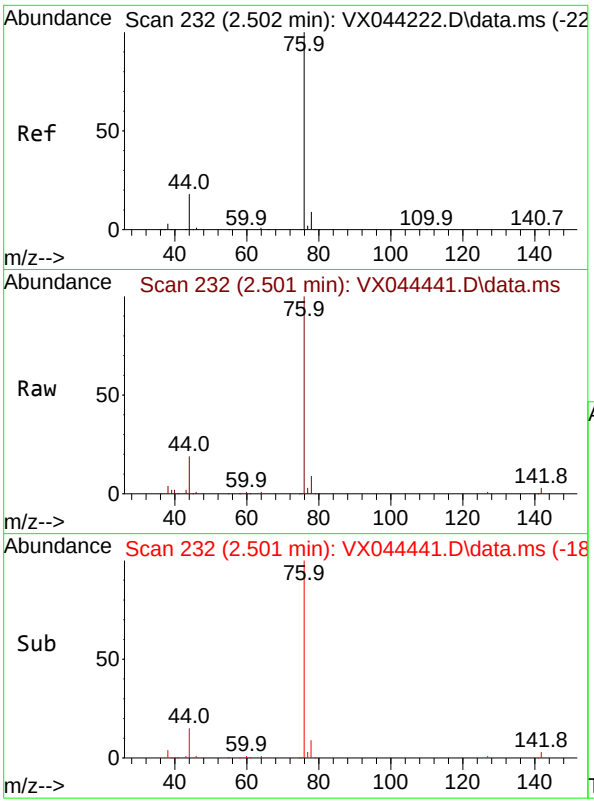


#16
Acetone
Concen: 75.745 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 79327

Ion	Ratio	Lower	Upper
43	100		
58	31.7	21.6	32.4



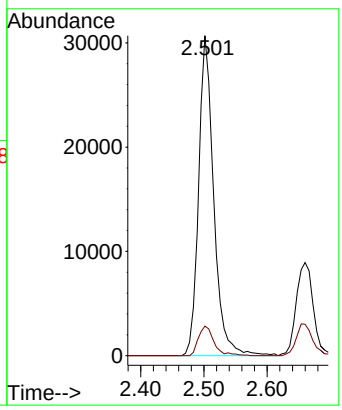


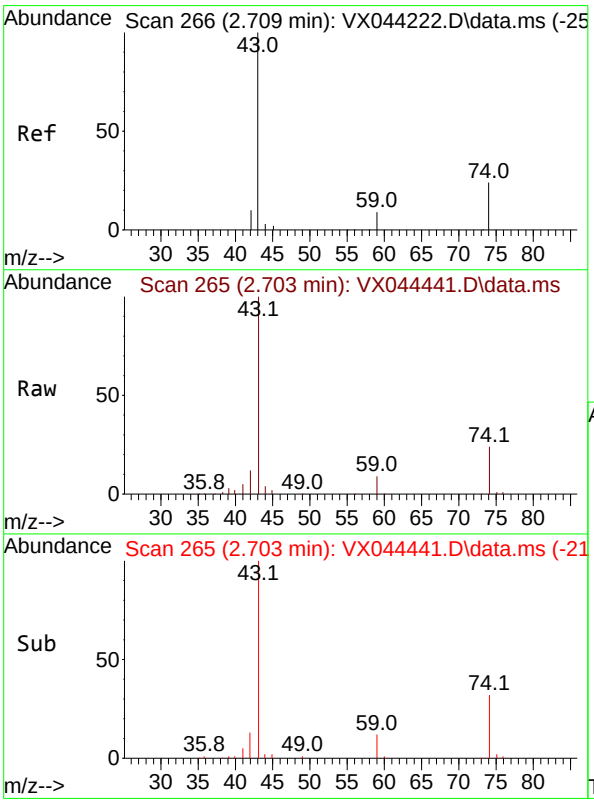
#17
Carbon Disulfide
Concen: 16.369 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 76 Resp: 51100

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

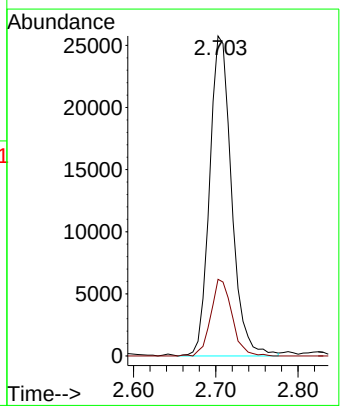


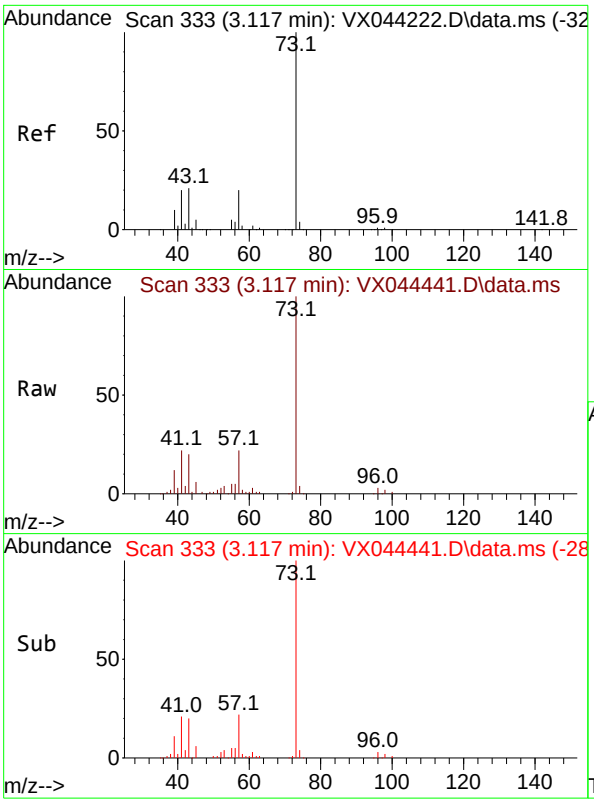


#18
Methyl Acetate
Concen: 17.713 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 47831

Ion	Ratio	Lower	Upper
43	100		
74	23.1	17.7	26.5



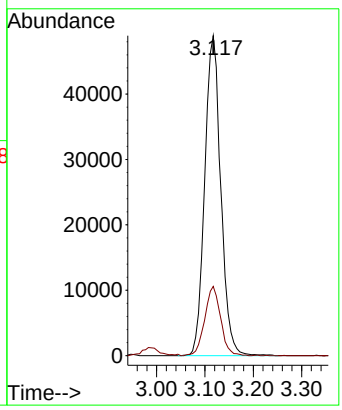


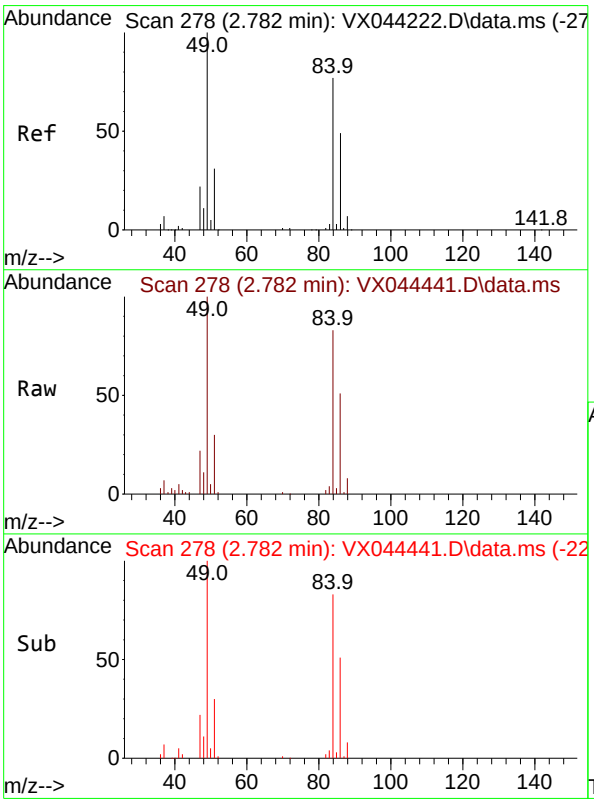
#19
Methyl tert-butyl Ether
Concen: 17.629 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 73 Resp: 112975

Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4

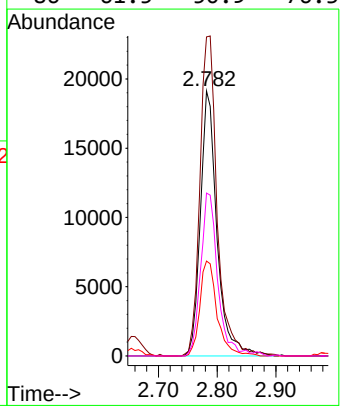


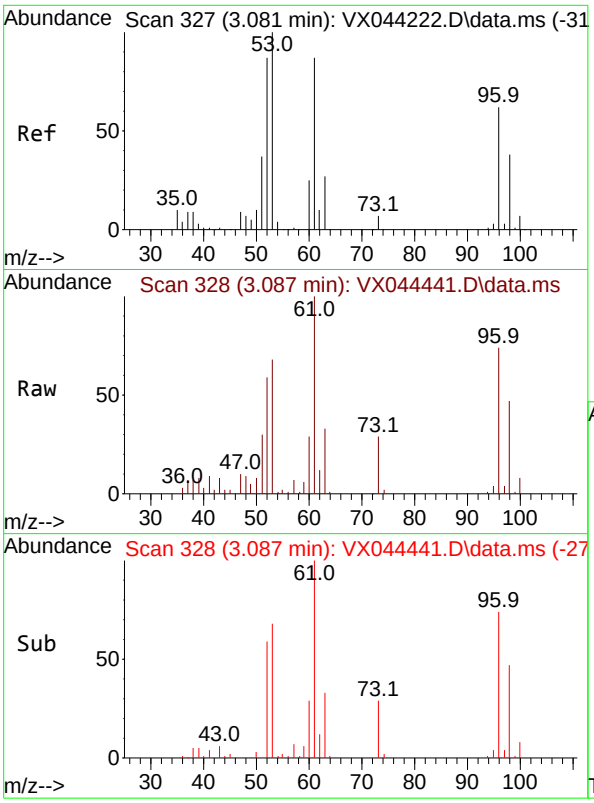


#20
Methylene Chloride
Concen: 19.142 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 84 Resp: 37654

Ion	Ratio	Lower	Upper
84	100		
49	120.5	104.2	156.4
51	35.8	32.2	48.4
86	61.5	50.9	76.3



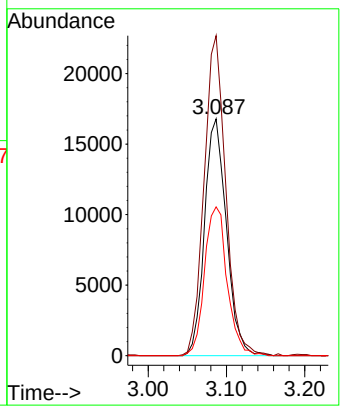


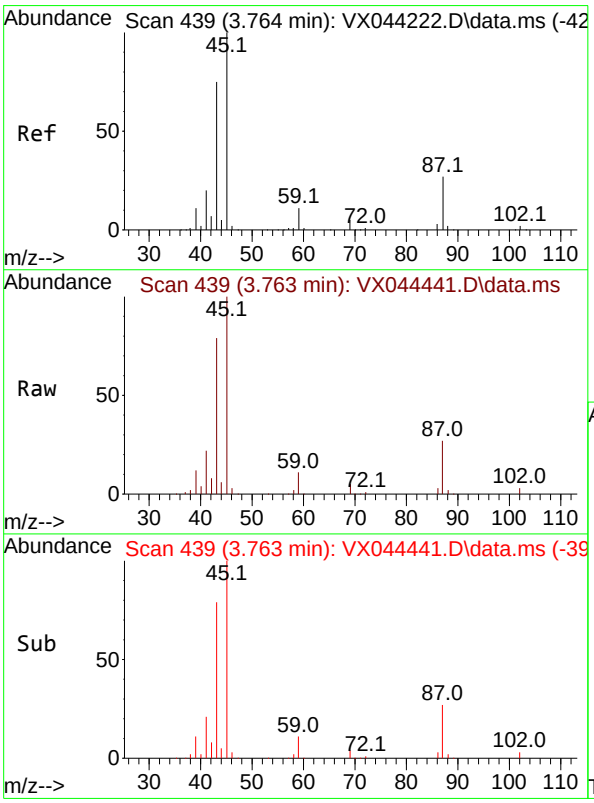
#21
trans-1,2-Dichloroethene
Concen: 18.688 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 96 Resp: 32618

Ion	Ratio	Lower	Upper
96	100		
61	135.2	112.0	168.0
98	62.9	48.8	73.2

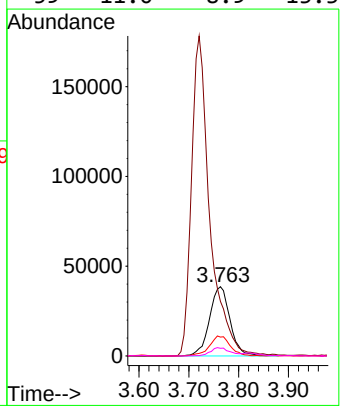


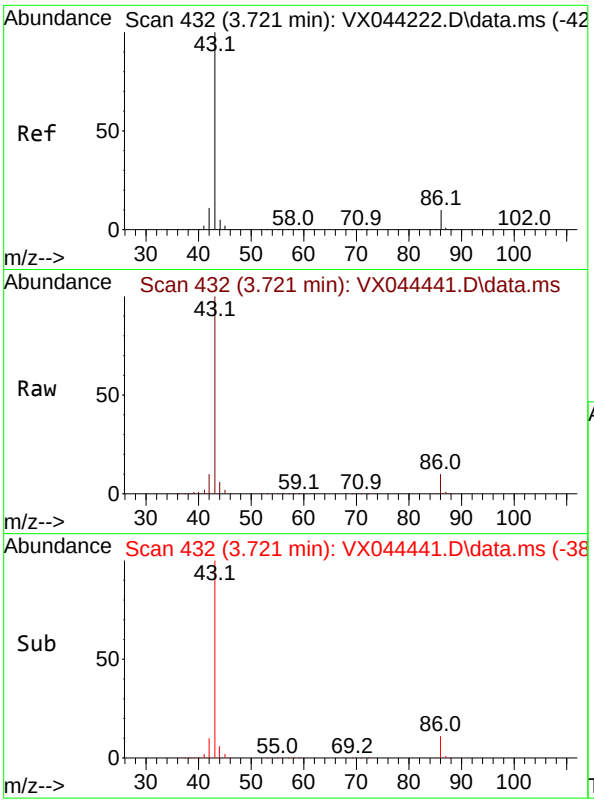


#22
Diisopropyl ether
Concen: 17.968 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 45 Resp: 110674

Ion	Ratio	Lower	Upper
45	100		
43	77.9	60.2	90.2
87	27.4	21.2	31.8
59	11.0	8.9	13.3



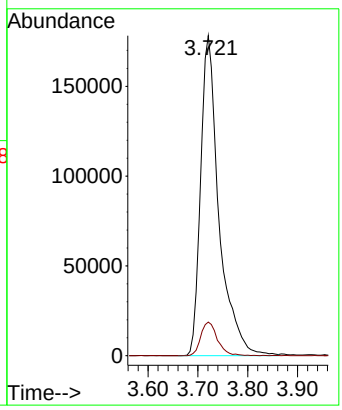


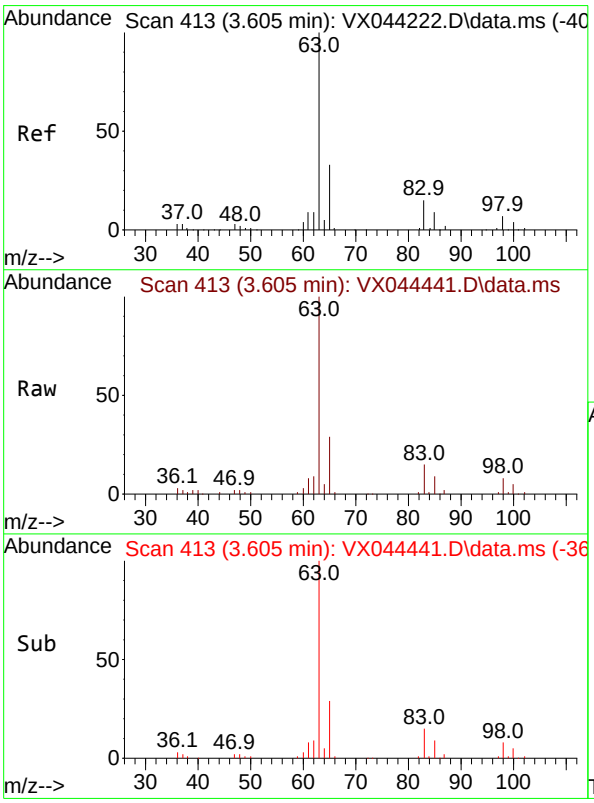
#23
Vinyl Acetate
Concen: 91.069 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 456052

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2

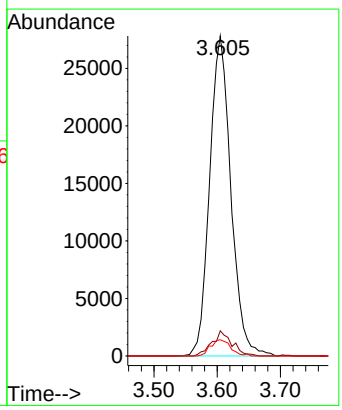


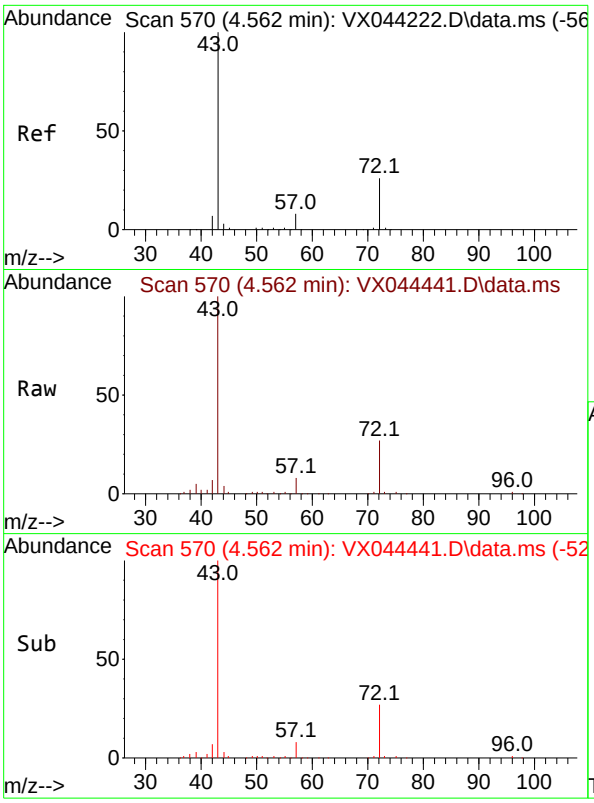


#24
1,1-Dichloroethane
Concen: 18.923 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 64973

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.6	10.8
100	5.0	2.1	6.3



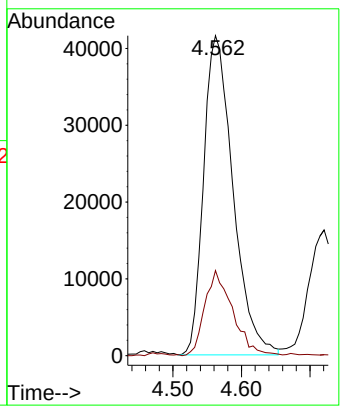


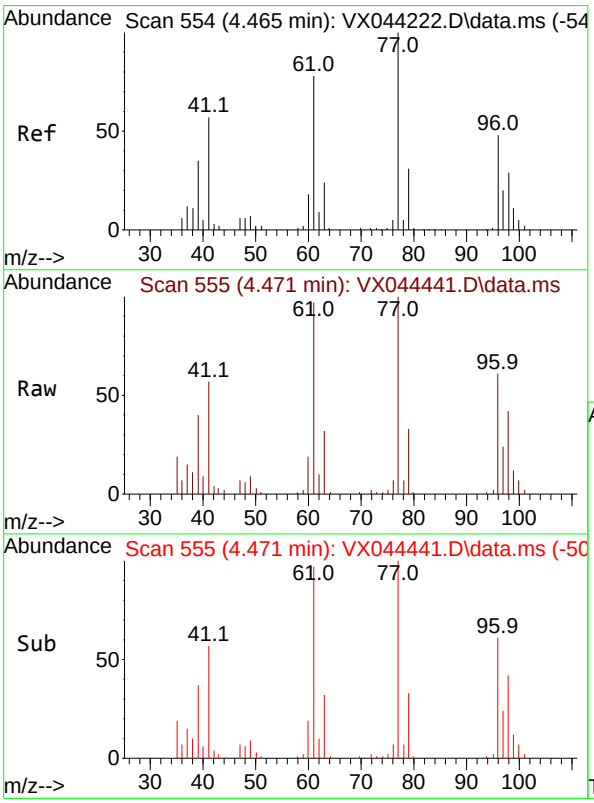
#25
2-Butanone
Concen: 83.289 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 124008

Ion	Ratio	Lower	Upper
43	100		
72	26.3	20.2	30.4

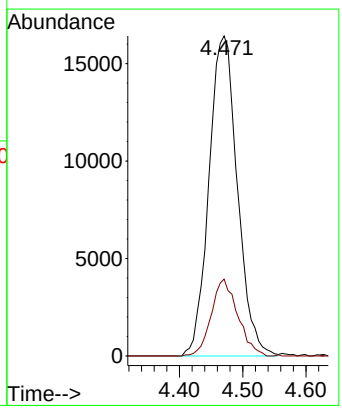


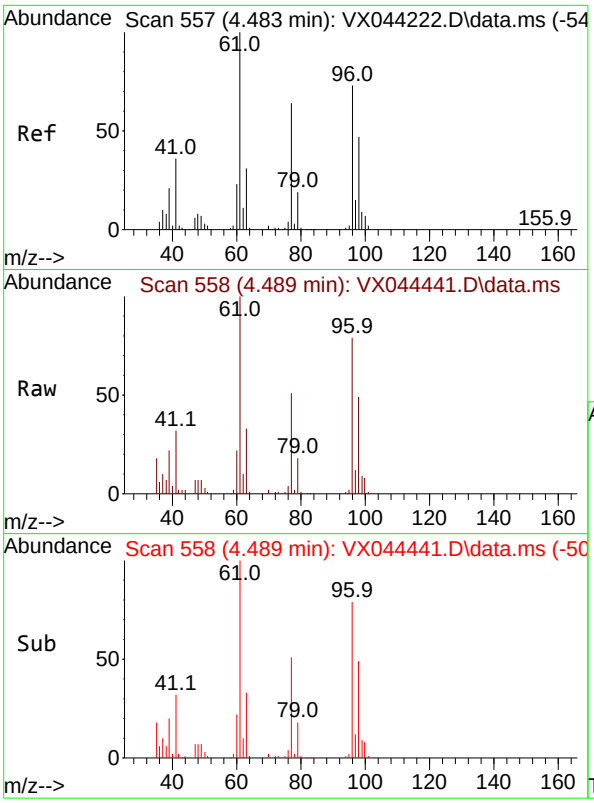


#26
2,2-Dichloropropane
Concen: 18.380 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 77 Resp: 51269

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.7	32.1



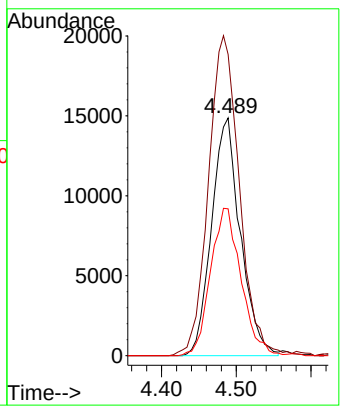


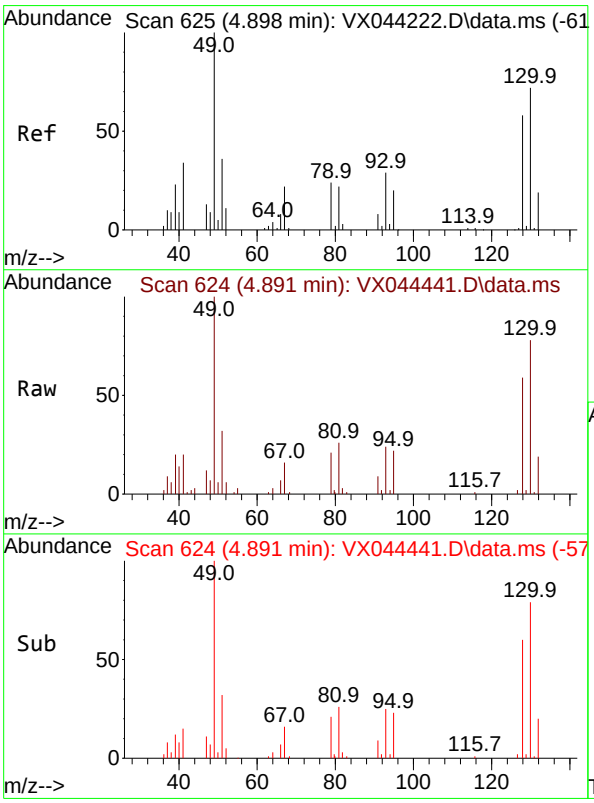
#27
cis-1,2-Dichloroethene
Concen: 17.974 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 96 Resp: 39842

Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	299.0
98	65.7	0.0	129.0

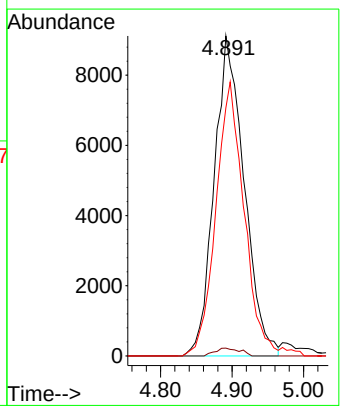


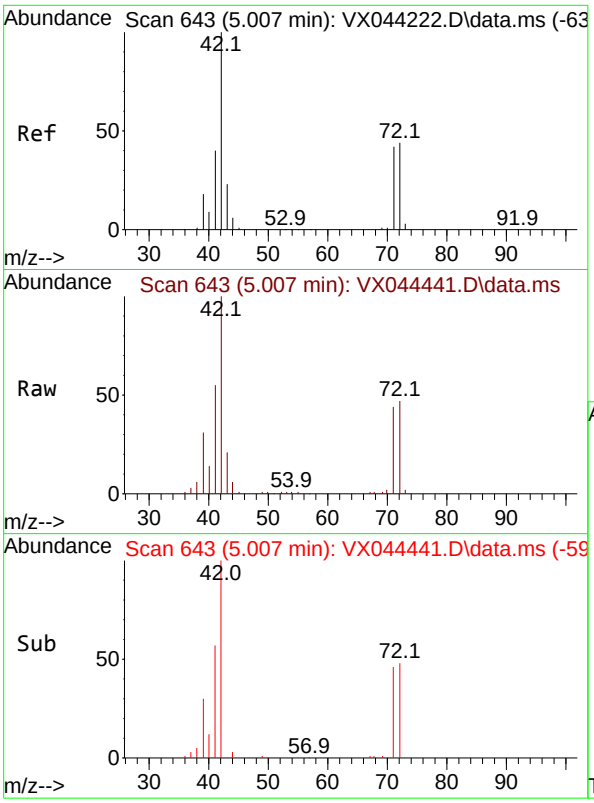


#28
Bromochloromethane
Concen: 15.760 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 49 Resp: 26535

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	80.3	62.1	93.1



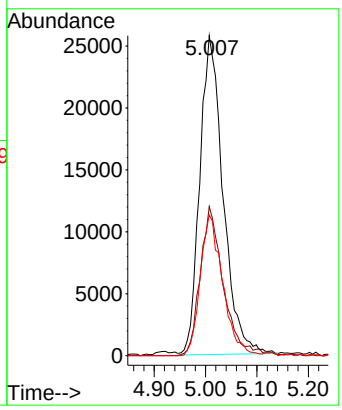


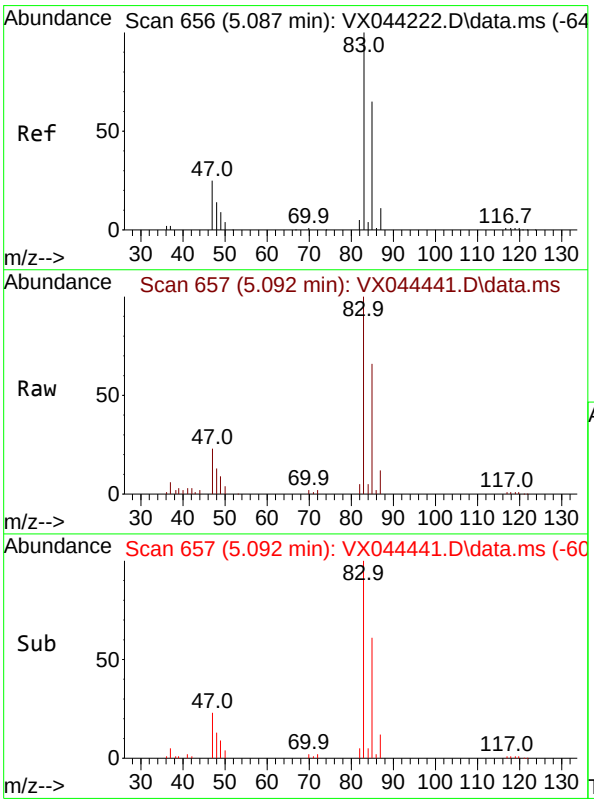
#29
Tetrahydrofuran
Concen: 84.947 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 42 Resp: 81181

Ion	Ratio	Lower	Upper
42	100		
72	45.9	37.0	55.6
71	42.5	33.6	50.4

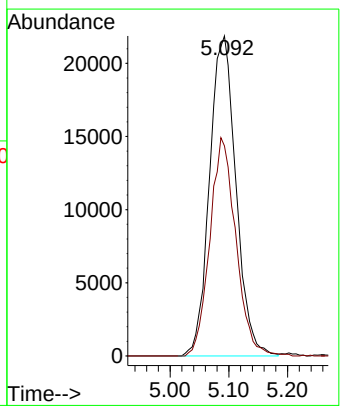


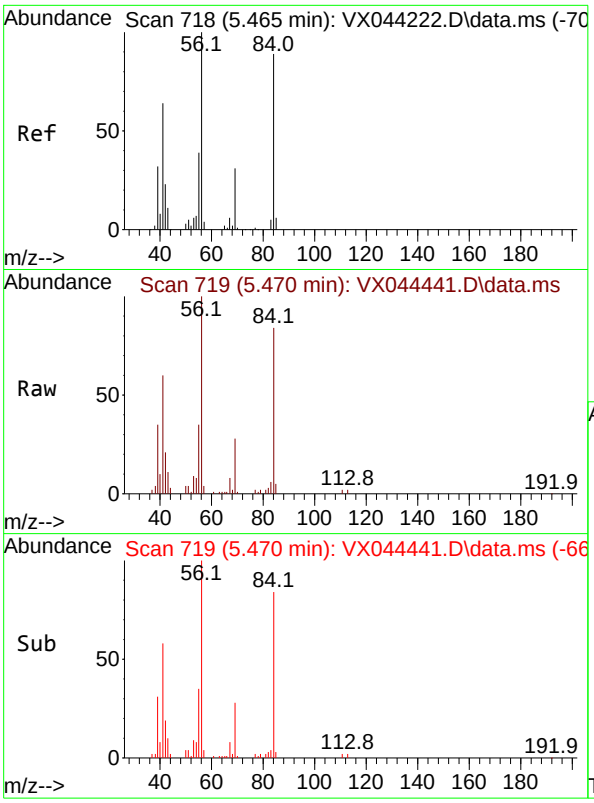


#30
Chloroform
Concen: 17.686 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 83 Resp: 68227

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.6	77.4



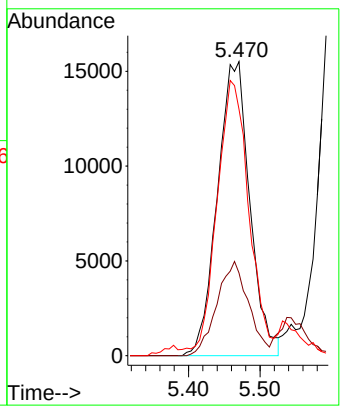


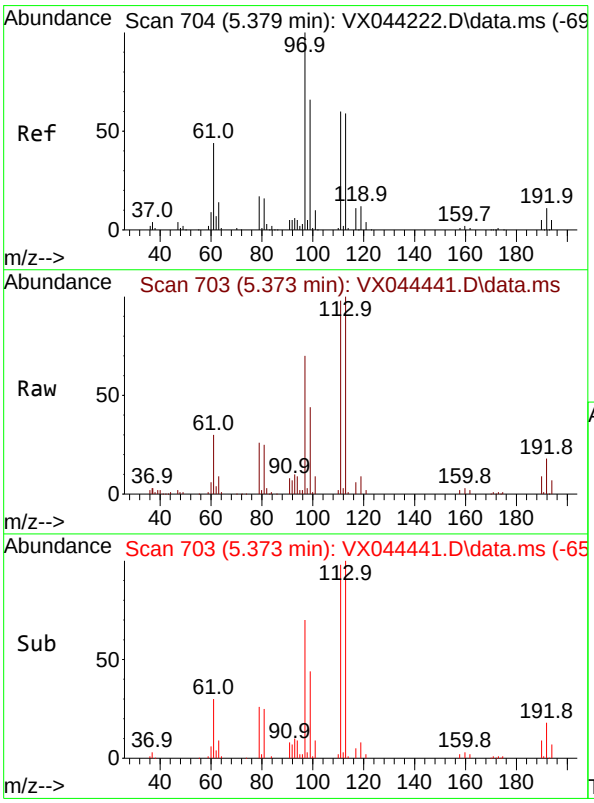
#31
Cyclohexane
Concen: 17.628 ug/l
RT: 5.470 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 56 Resp: 48875

Ion	Ratio	Lower	Upper
56	100		
69	28.1	24.7	37.1
84	81.7	71.0	106.6

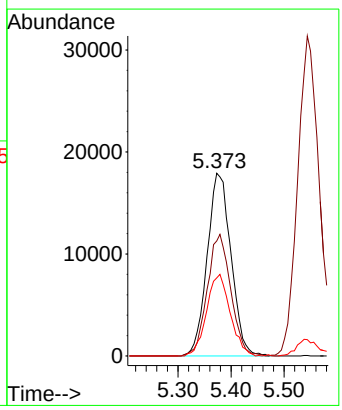


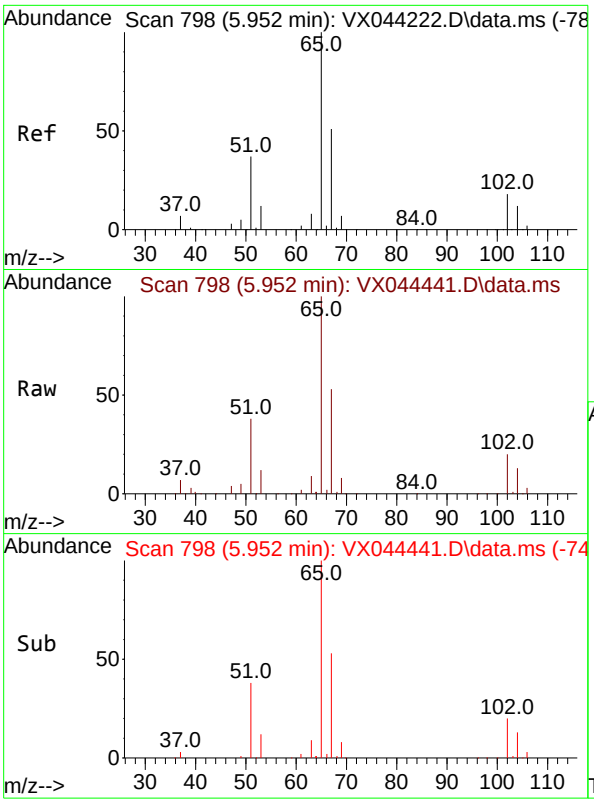


#32
1,1,1-Trichloroethane
Concen: 17.459 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 97 Resp: 55907

Ion	Ratio	Lower	Upper
97	100		
99	65.6	50.8	76.2
61	44.3	35.2	52.8



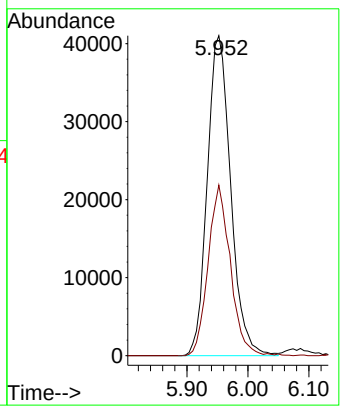


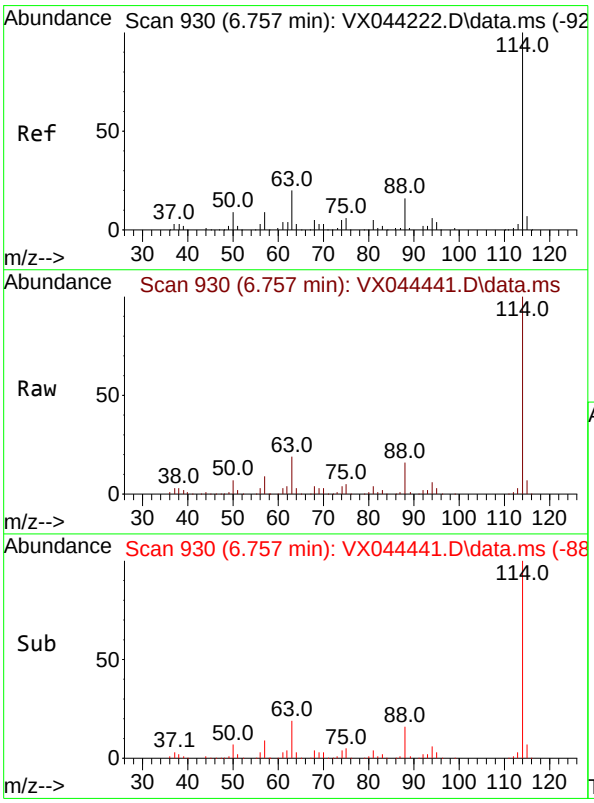
#33
1,2-Dichloroethane-d4
Concen: 42.700 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 65 Resp: 109691

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	101.6

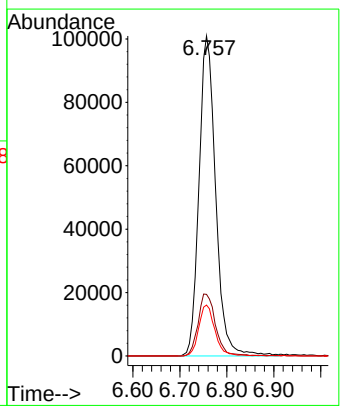


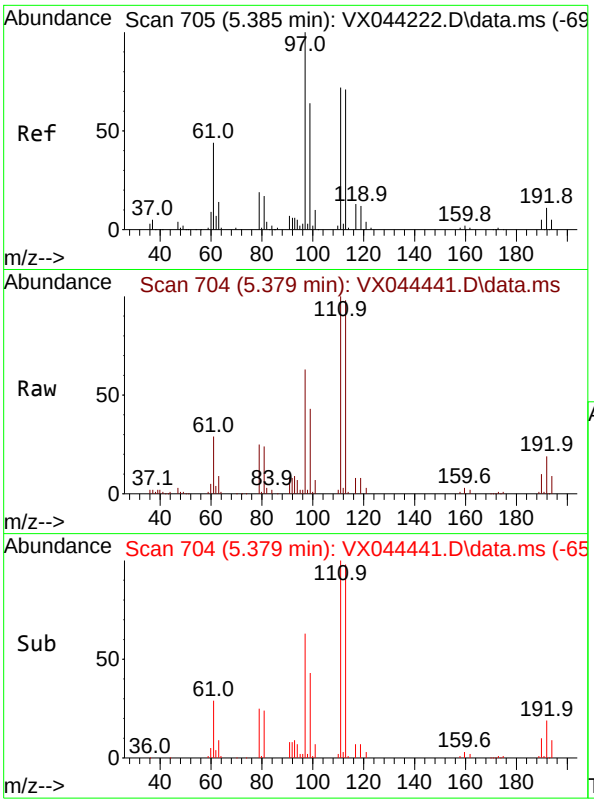


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:114 Resp: 249173

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	40.6
88	15.9	0.0	31.8



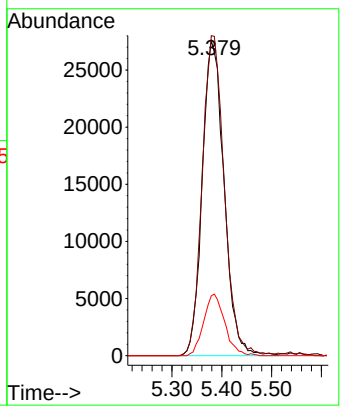


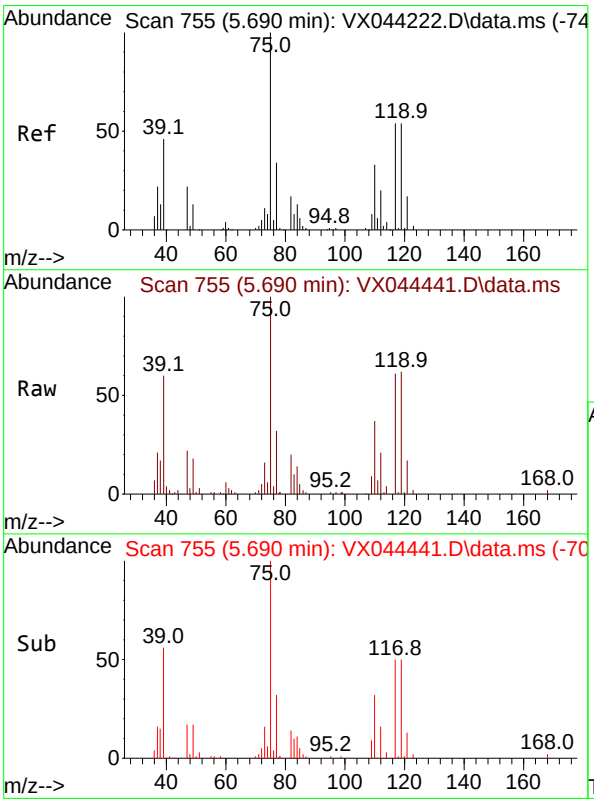
#35
Dibromofluoromethane
Concen: 48.541 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:113 Resp: 83769

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.4	120.6
192	18.9	13.3	19.9

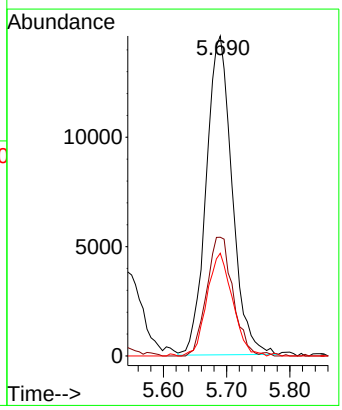


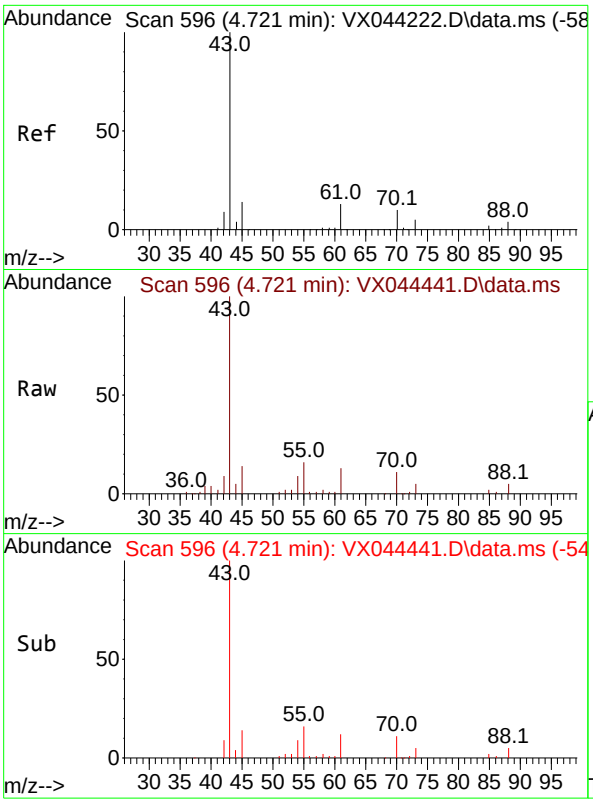


#36
1,1-Dichloropropene
Concen: 18.566 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 41416

Ion	Ratio	Lower	Upper
75	100		
110	37.6	17.3	51.7
77	31.9	25.4	38.0



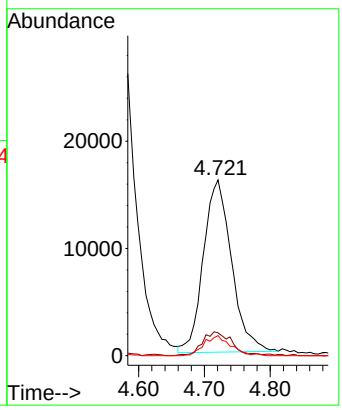


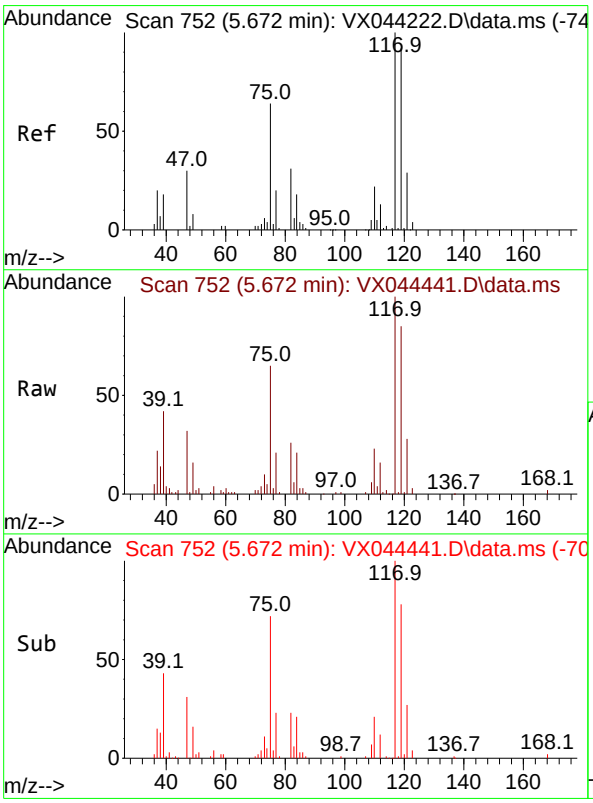
#37
Ethyl Acetate
Concen: 17.412 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 48014

Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.8	14.8
70	11.0	7.7	11.5

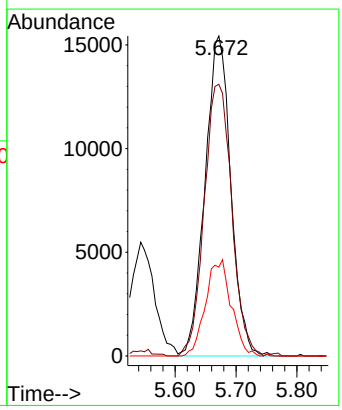


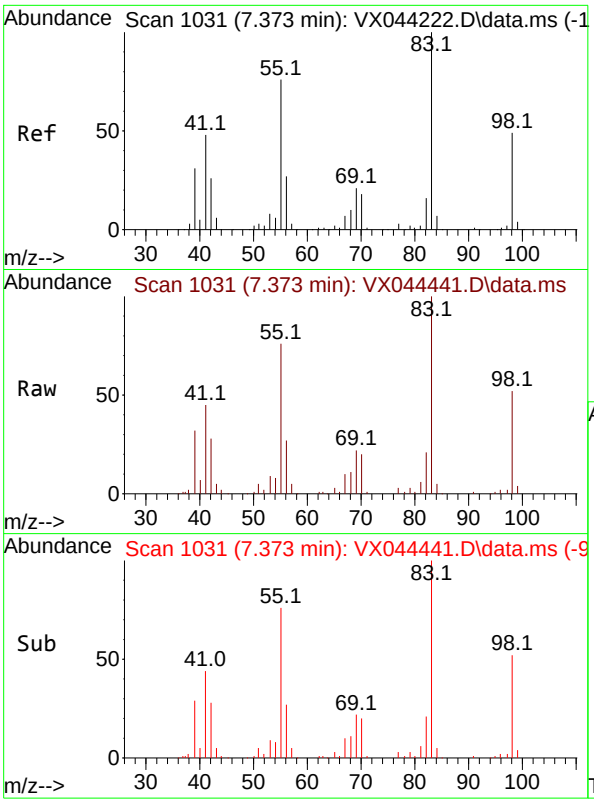


#38
Carbon Tetrachloride
Concen: 18.898 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 45386

Ion	Ratio	Lower	Upper
117	100		
119	84.9	74.2	111.4
121	27.7	23.0	34.6



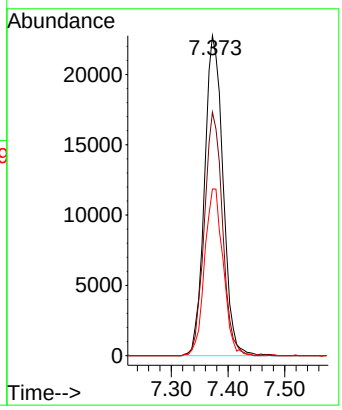


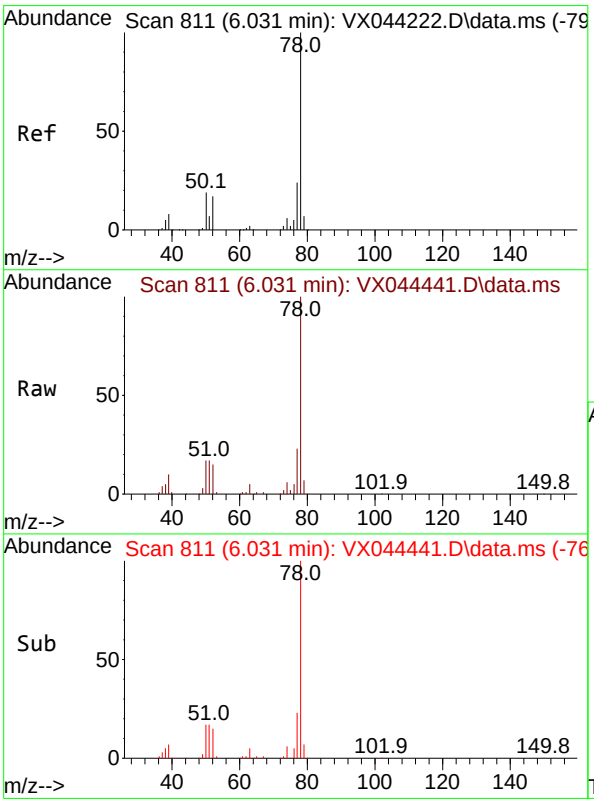
#39
Methylcyclohexane
Concen: 19.332 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 83 Resp: 51554

Ion	Ratio	Lower	Upper
83	100		
55	76.1	60.7	91.1
98	52.1	38.9	58.3

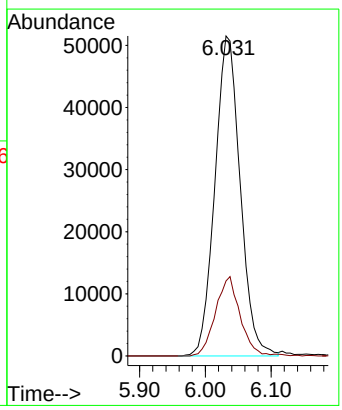


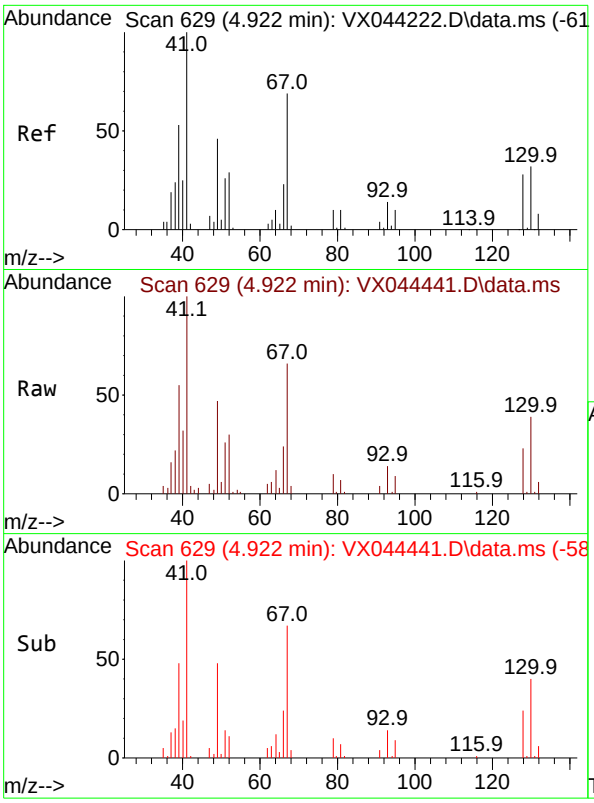


#40
Benzene
Concen: 20.358 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 78 Resp: 137885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9



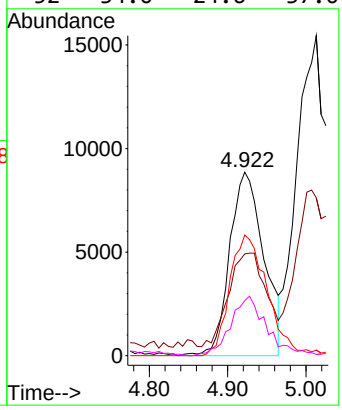


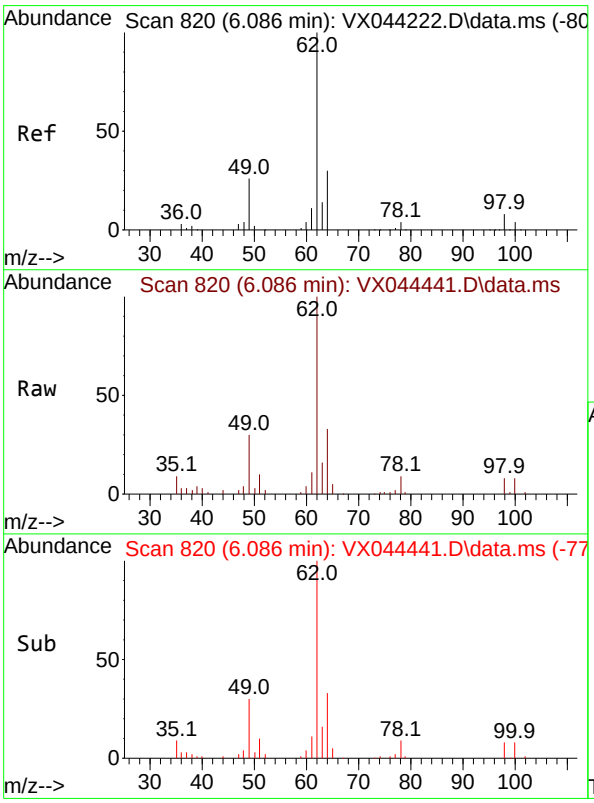
#41
Methacrylonitrile
Concen: 18.343 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 41 Resp: 26859

Ion	Ratio	Lower	Upper
41	100		
39	56.0	44.2	66.4
67	72.8	57.2	85.8
52	34.0	24.6	37.0

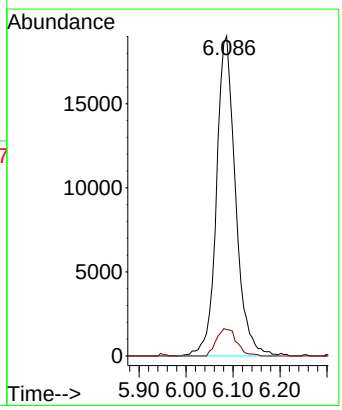


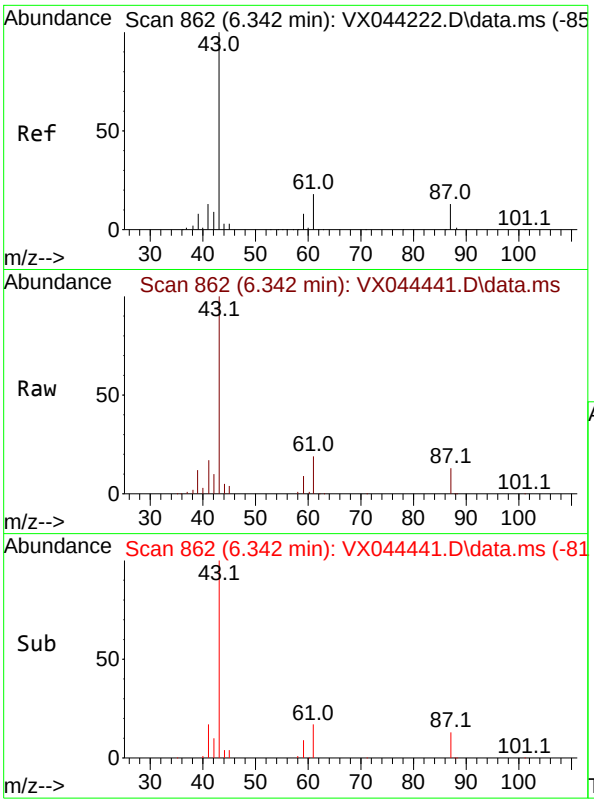


#42
1,2-Dichloroethane
Concen: 19.207 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 62 Resp: 53588

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	15.8



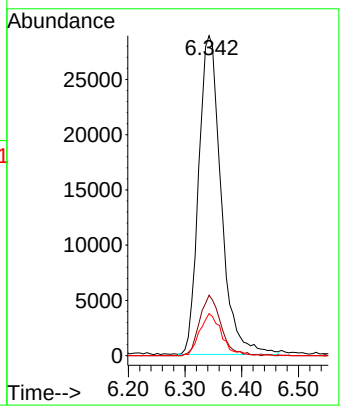


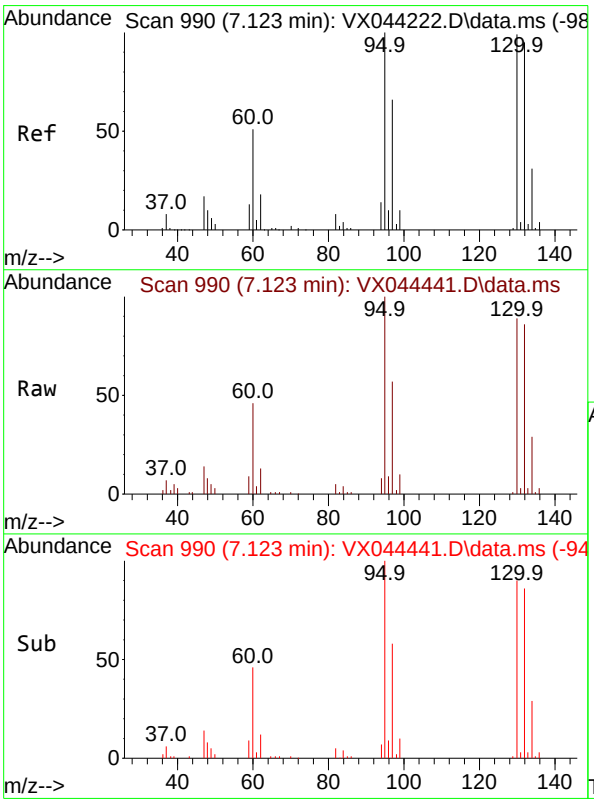
#43
Isopropyl Acetate
Concen: 18.378 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 79207

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.2	21.2
87	12.9	10.2	15.2

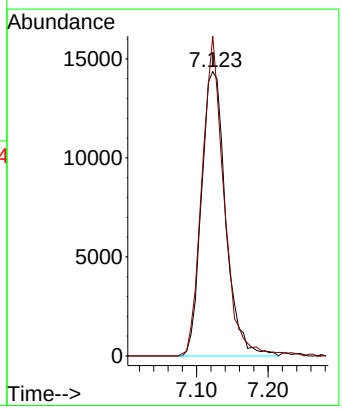


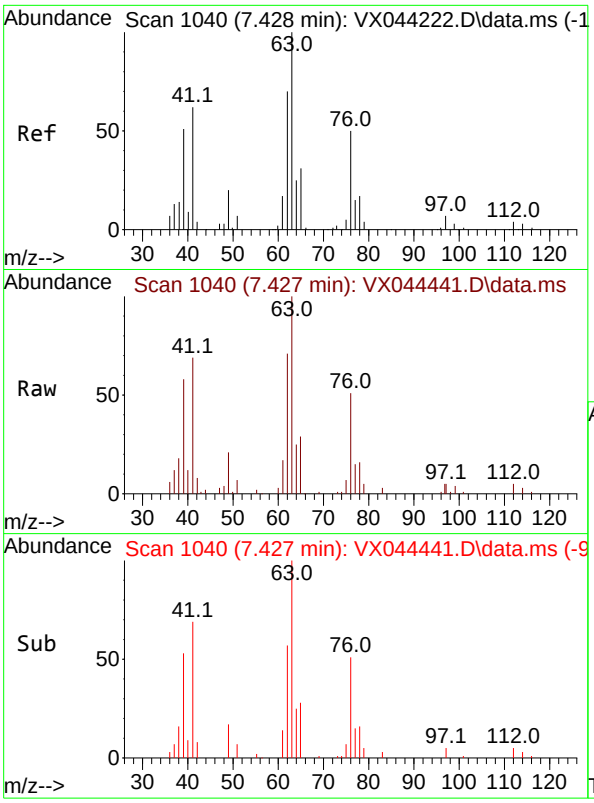


#44
Trichloroethene
Concen: 19.902 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:130 Resp: 33615

Ion	Ratio	Lower	Upper
130	100		
95	112.5	0.0	201.4



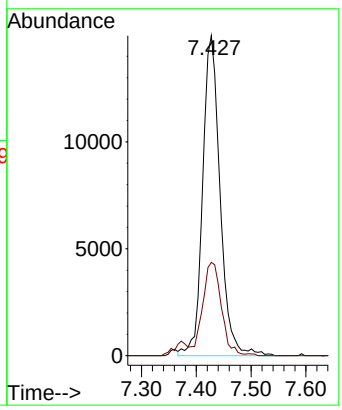


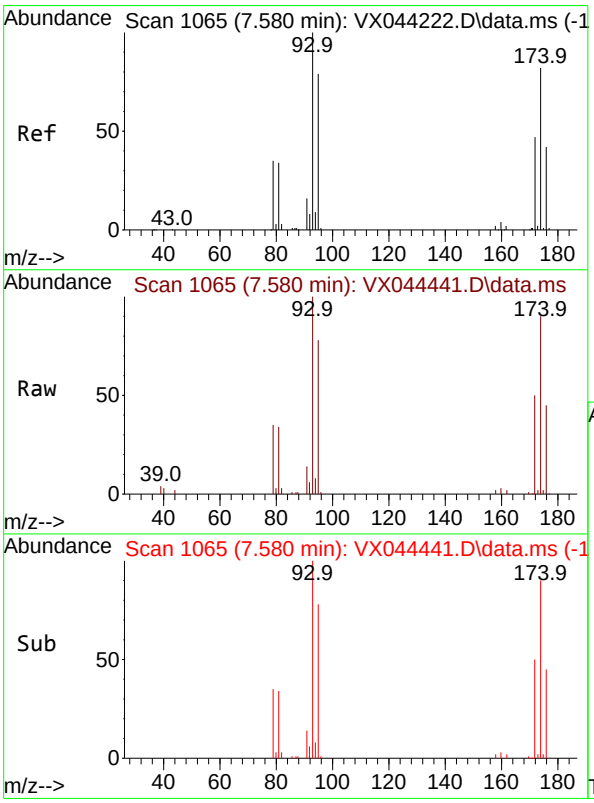
#45
1,2-Dichloropropane
Concen: 19.077 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 63 Resp: 33011

Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.6	37.0

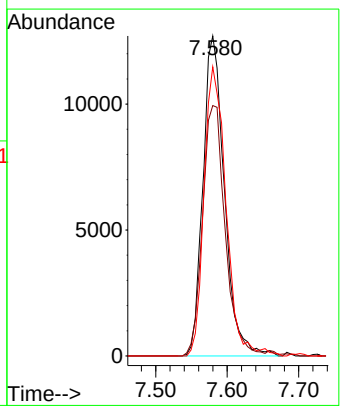


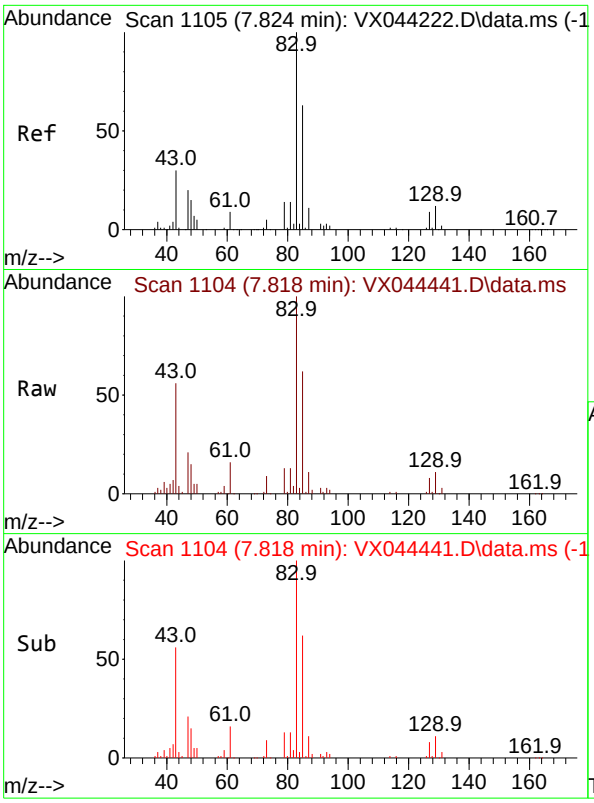


#46
Dibromomethane
Concen: 19.737 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 93 Resp: 26495

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.4	98.2
174	92.4	67.9	101.9



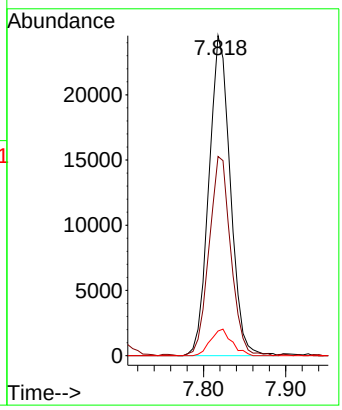


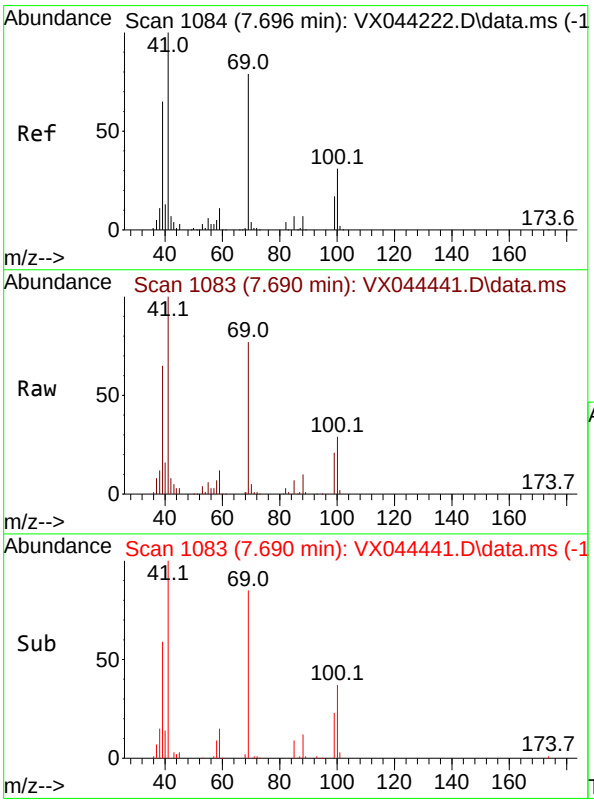
#47
Bromodichloromethane
Concen: 19.132 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 83 Resp: 44357

Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.6	75.8
127	7.7	7.3	10.9

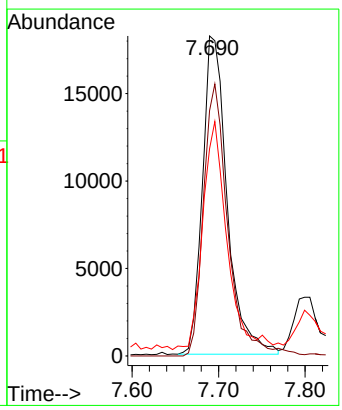


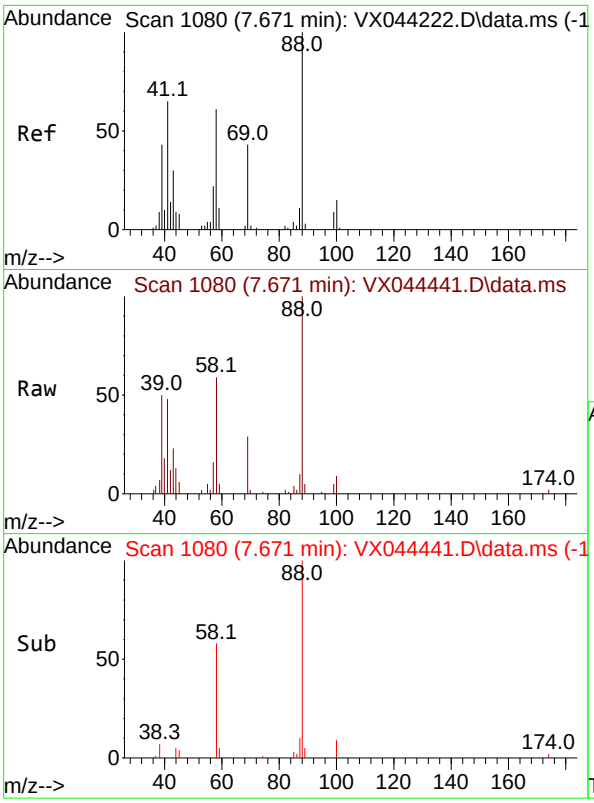


#48
Methyl methacrylate
Concen: 17.281 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 41 Resp: 36154

Ion	Ratio	Lower	Upper
41	100		
69	84.8	62.4	93.6
39	70.2	53.3	79.9



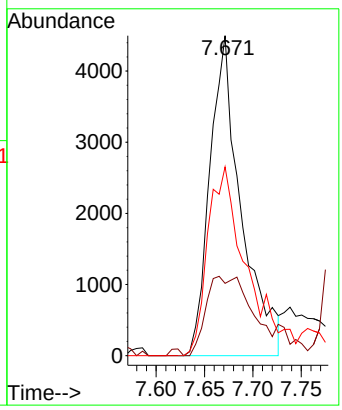


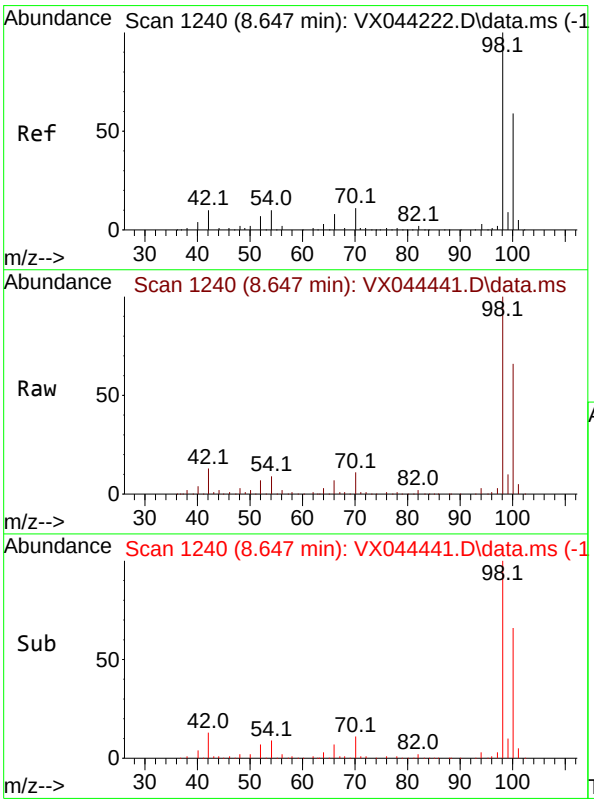
#49
1,4-Dioxane
Concen: 292.846 ug/l
RT: 7.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 88 Resp: 10158

Ion	Ratio	Lower	Upper
88	100		
43	36.0	27.1	40.7
58	73.5	41.0	61.4#

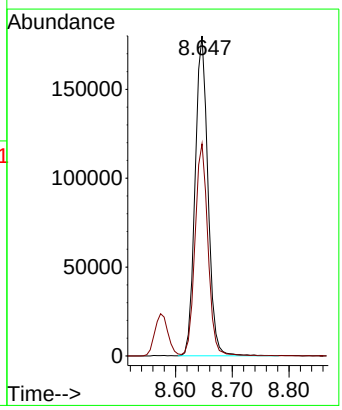


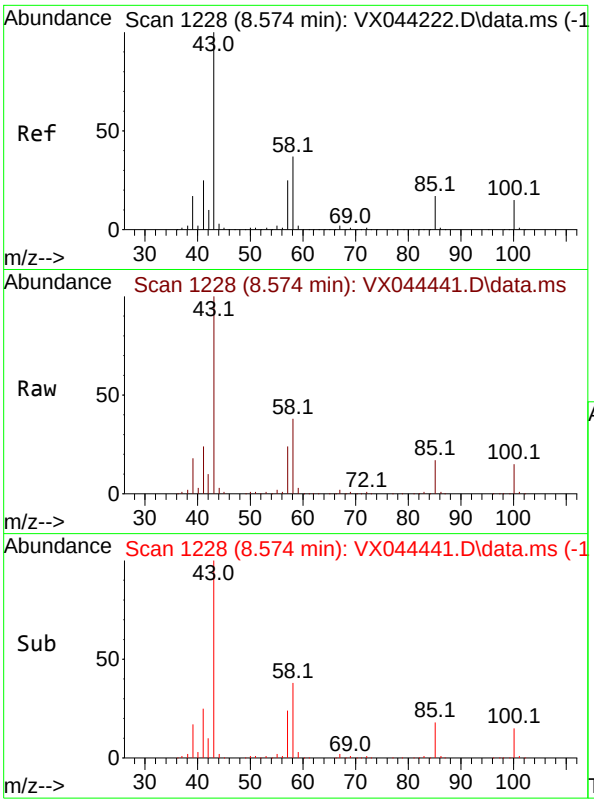


#50
Toluene-d8
Concen: 48.669 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 98 Resp: 283358

Ion	Ratio	Lower	Upper
98	100		
100	66.4	51.5	77.3



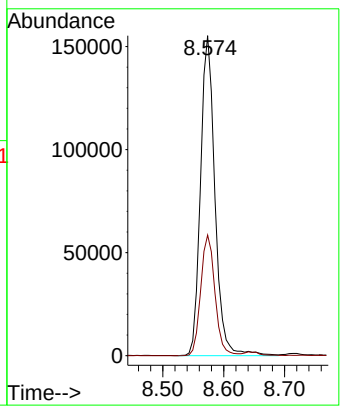


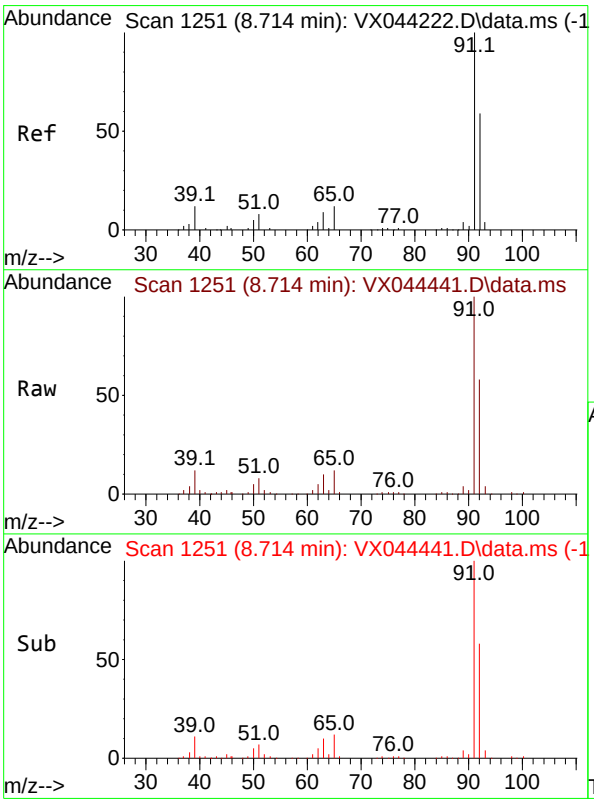
#51
4-Methyl-2-Pentanone
Concen: 92.373 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 255984

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.0

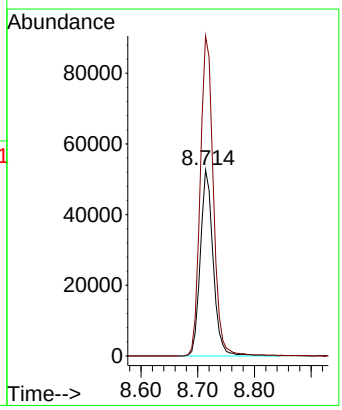


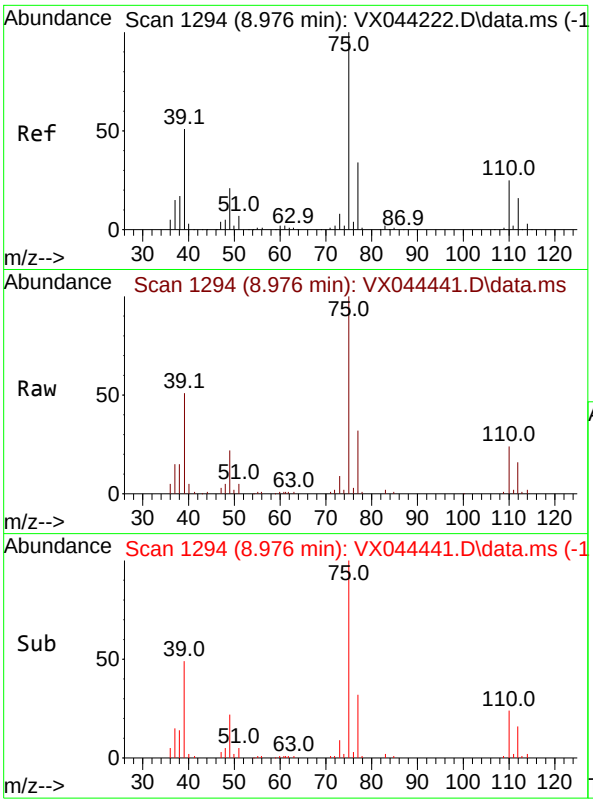


#52
Toluene
Concen: 19.504 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 92 Resp: 82957

Ion	Ratio	Lower	Upper
92	100		
91	175.4	137.0	205.6



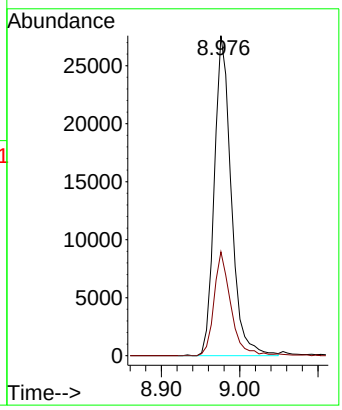


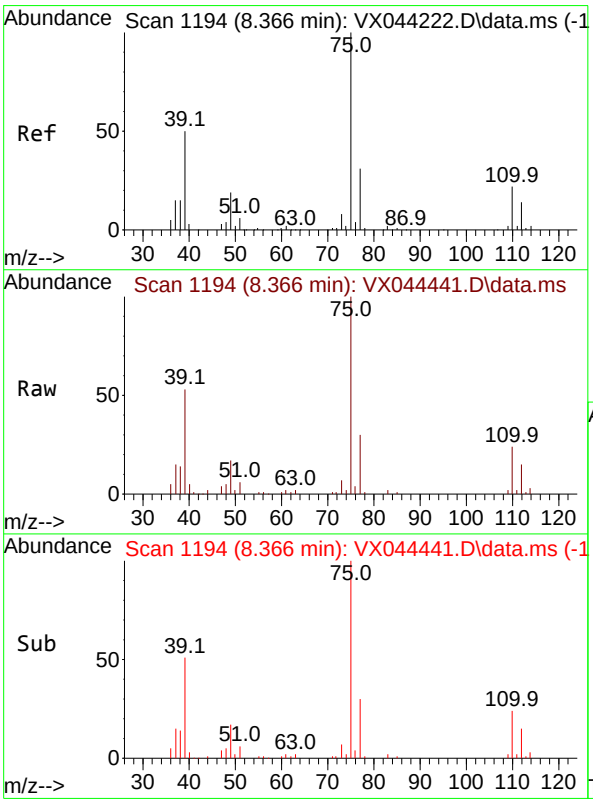
#53
t-1,3-Dichloropropene
Concen: 17.860 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 75 Resp: 41417

Ion	Ratio	Lower	Upper
75	100		
77	32.4	27.2	40.8

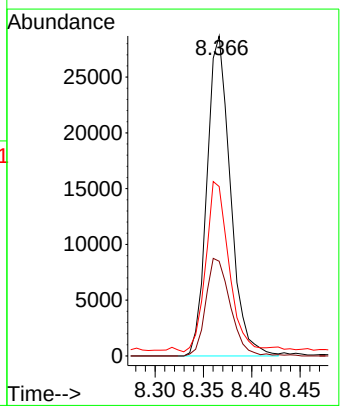


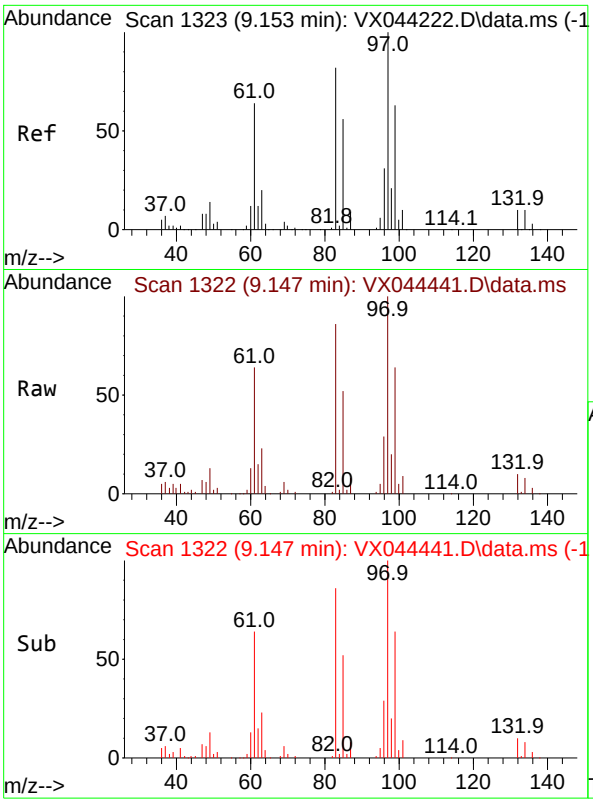


#54
cis-1,3-Dichloropropene
Concen: 19.157 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 48359

Ion	Ratio	Lower	Upper
75	100		
77	29.6	24.7	37.1
39	51.1	40.3	60.5



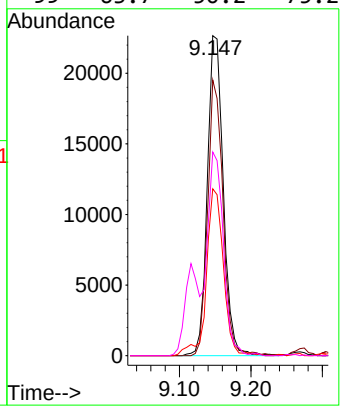


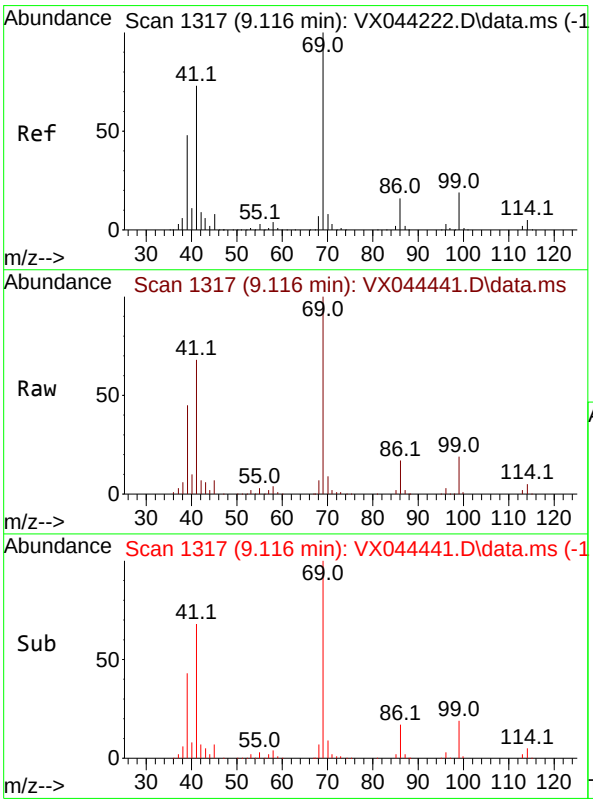
#55
1,1,2-Trichloroethane
Concen: 20.801 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 97 Resp: 35148

Ion	Ratio	Lower	Upper
97	100		
83	86.1	65.3	97.9
85	51.7	44.6	67.0
99	63.7	50.2	75.2

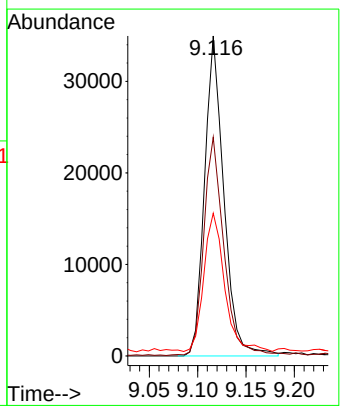


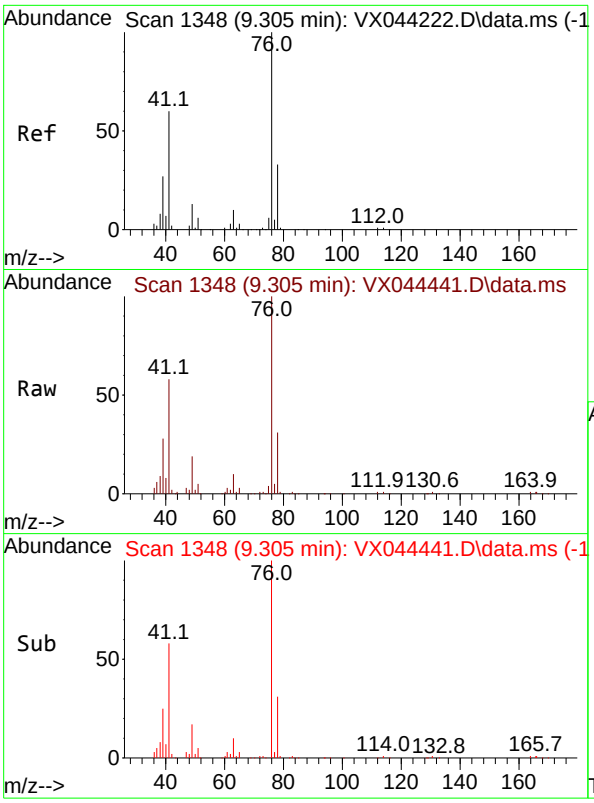


#56
Ethyl methacrylate
Concen: 18.235 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 69 Resp: 48642

Ion	Ratio	Lower	Upper
69	100		
41	71.0	56.6	85.0
39	46.3	37.4	56.0



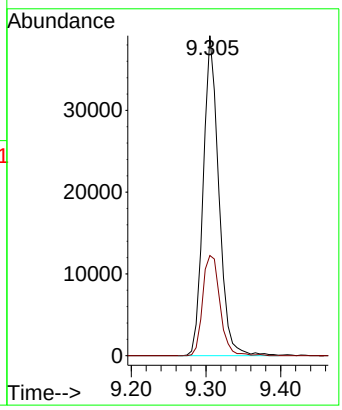


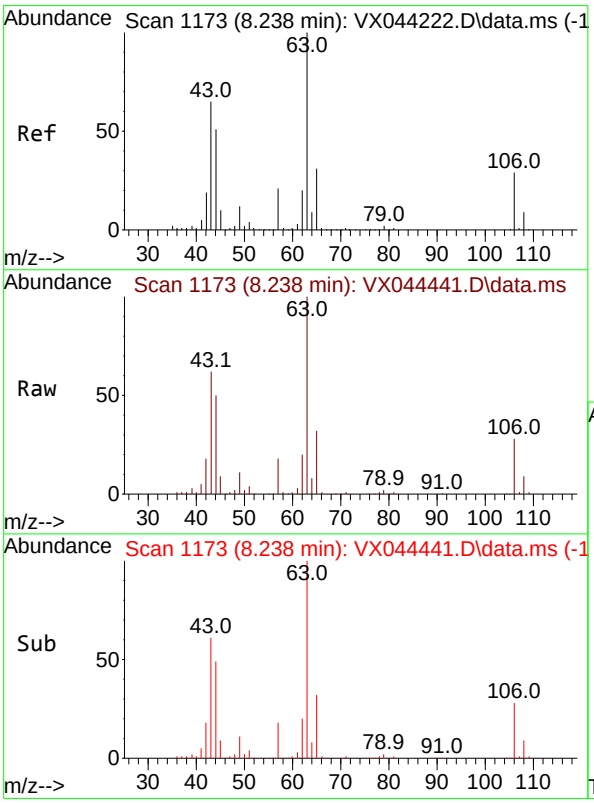
#57
1,3-Dichloropropane
Concen: 19.260 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 76 Resp: 56644

Ion	Ratio	Lower	Upper
76	100		
78	34.8	26.5	39.7

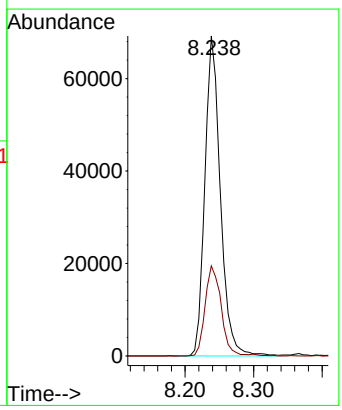


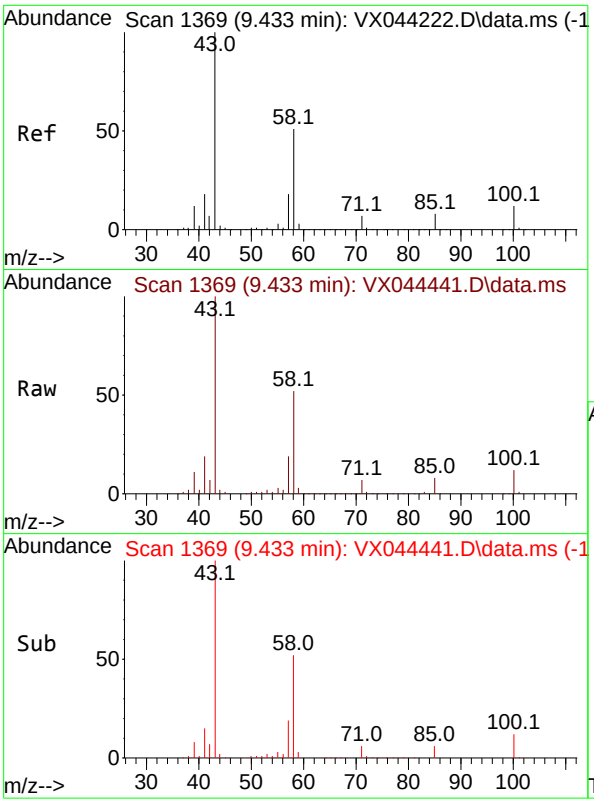


#58
2-Chloroethyl Vinyl ether
Concen: 81.033 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 63 Resp: 109022

Ion	Ratio	Lower	Upper
63	100		
106	29.3	22.8	34.2



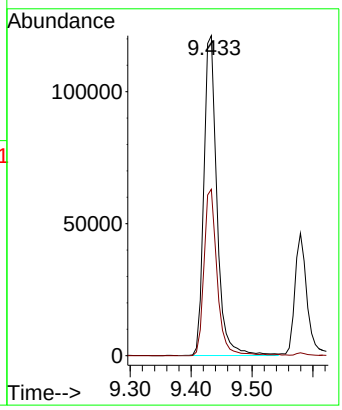


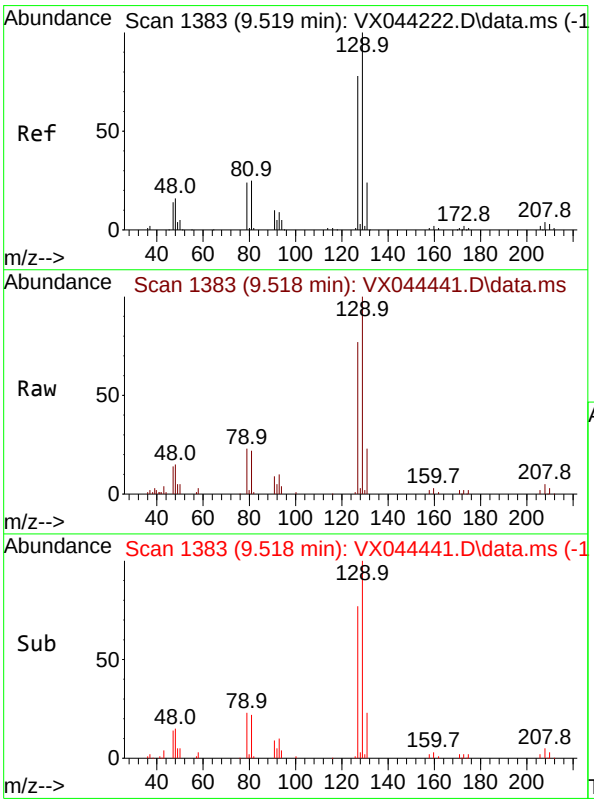
#59
2-Hexanone
Concen: 90.356 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 43 Resp: 181241

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.7	77.0

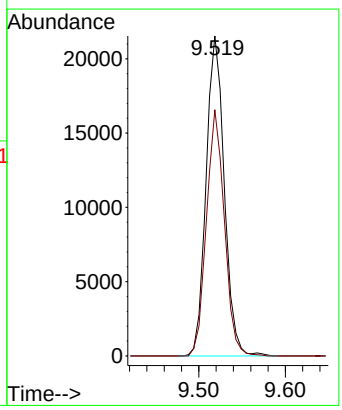


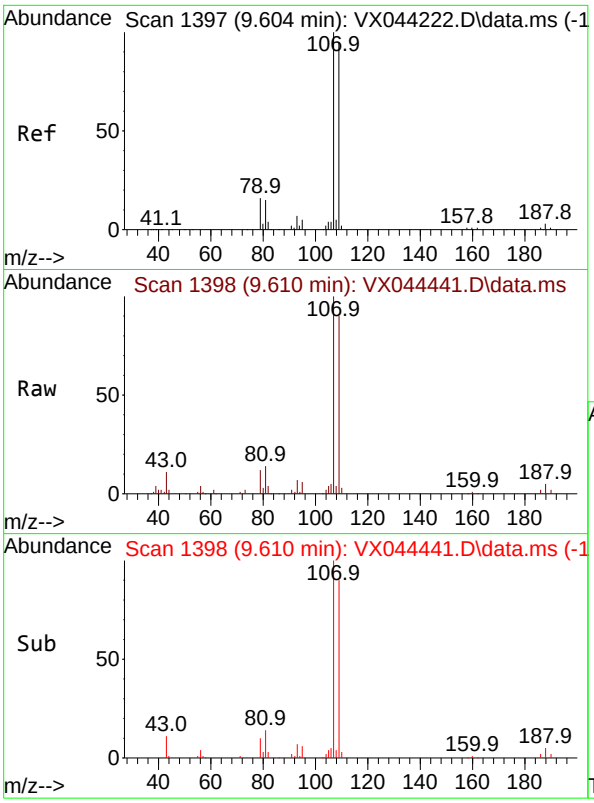


#60
Dibromochloromethane
Concen: 18.848 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:129 Resp: 31411

Ion	Ratio	Lower	Upper
129	100		
127	75.9	38.5	115.3



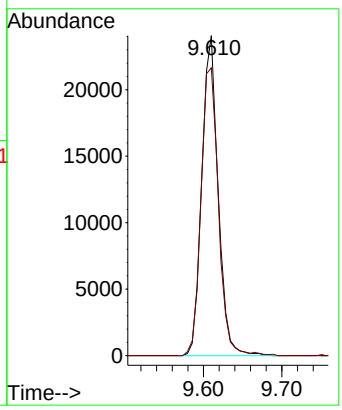


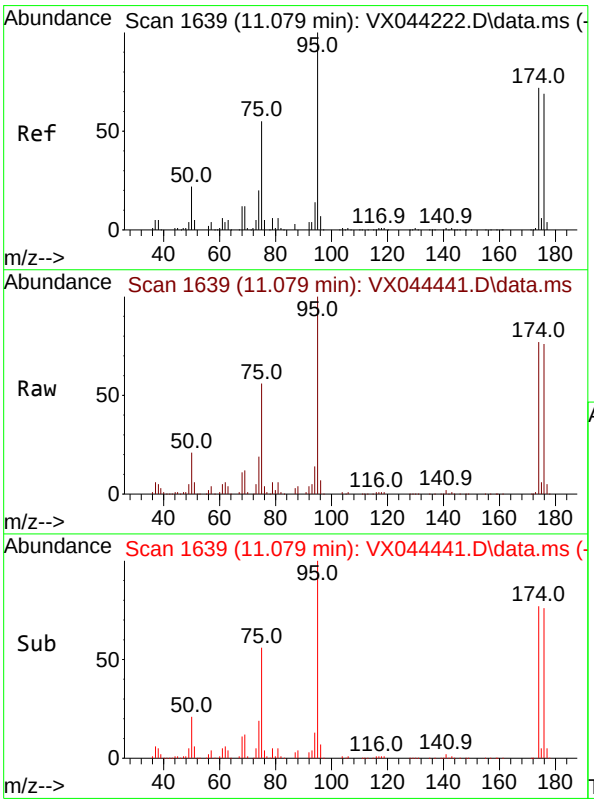
#61
1,2-Dibromoethane
Concen: 20.234 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:107 Resp: 34801

Ion	Ratio	Lower	Upper
107	100		
109	96.1	77.0	115.4

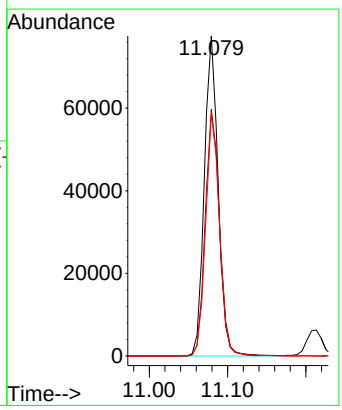


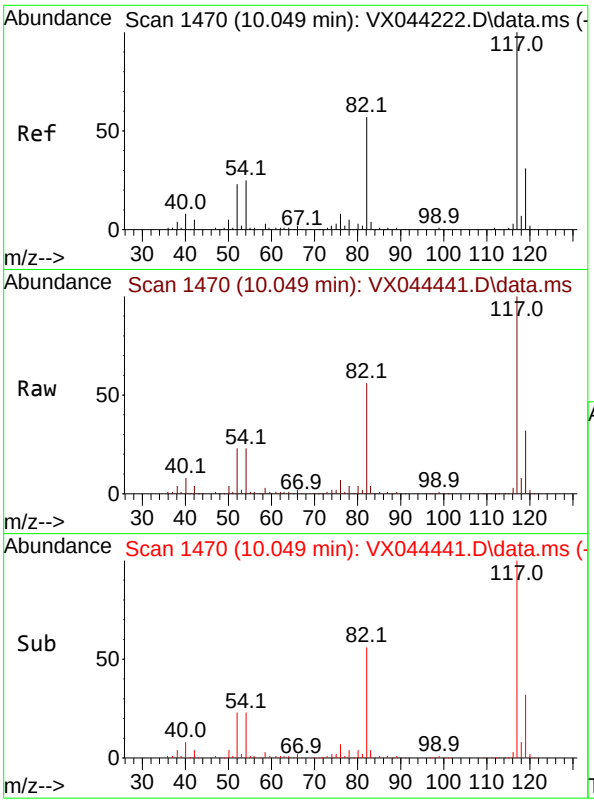


#62
4-Bromofluorobenzene
Concen: 46.443 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 95 Resp: 94485

Ion	Ratio	Lower	Upper
95	100		
174	79.5	0.0	145.8
176	76.2	0.0	137.8



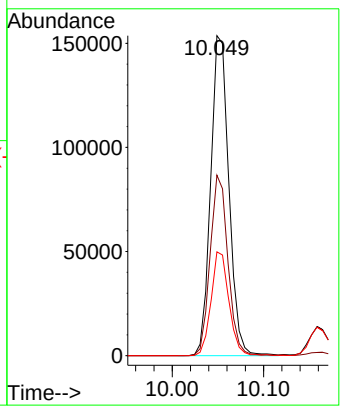


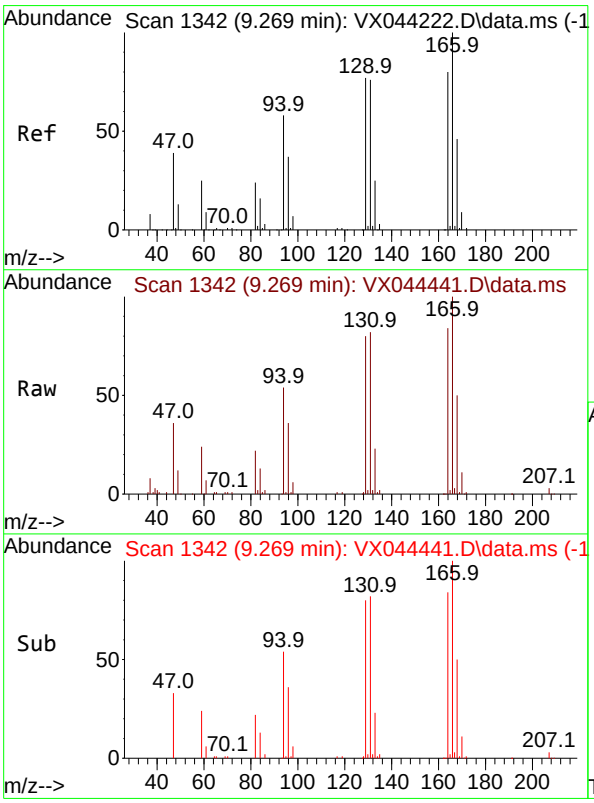
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:117 Resp: 212384

Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	32.5	25.0	37.4

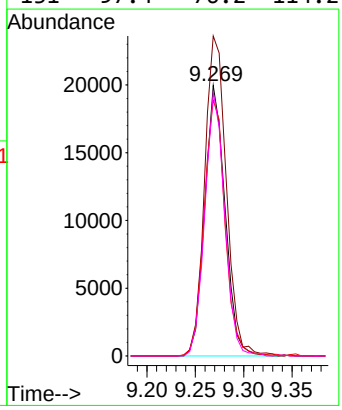


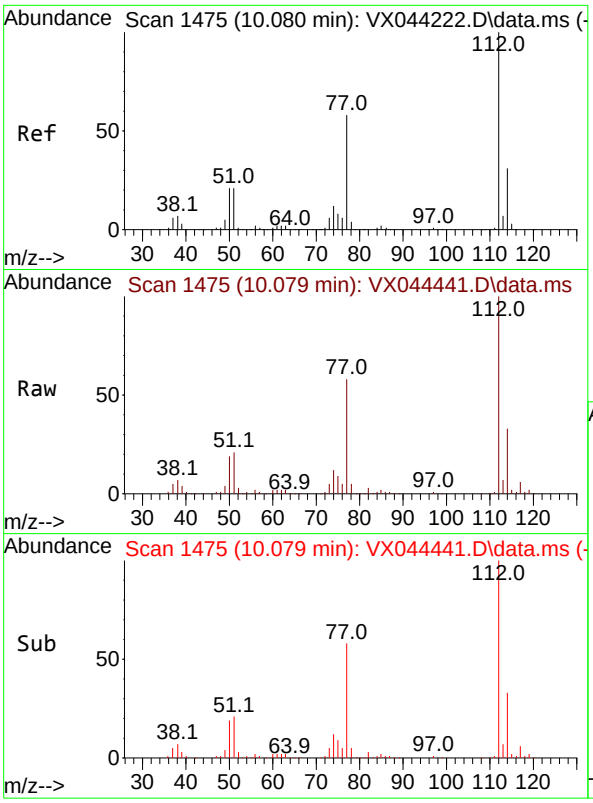


#64
Tetrachloroethene
Concen: 20.762 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:164 Resp: 29267

Ion	Ratio	Lower	Upper
164	100		
166	118.4	100.4	150.6
129	94.7	77.2	115.8
131	97.4	76.2	114.2



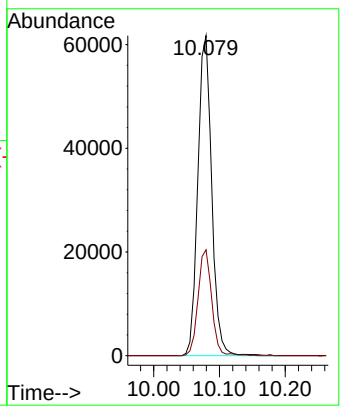


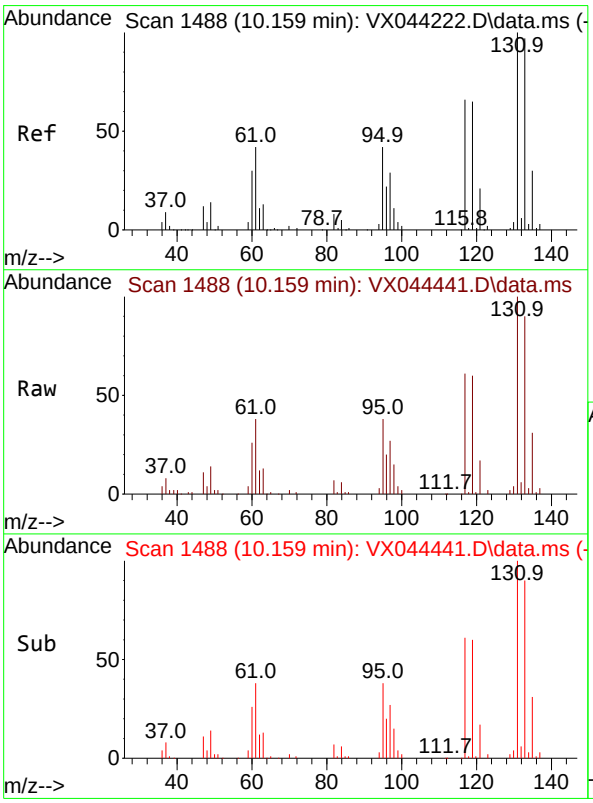
#65
Chlorobenzene
Concen: 19.906 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:112 Resp: 90589

Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.0	37.6

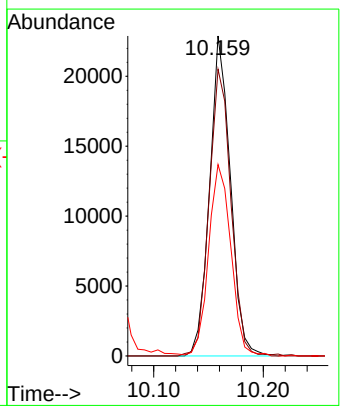


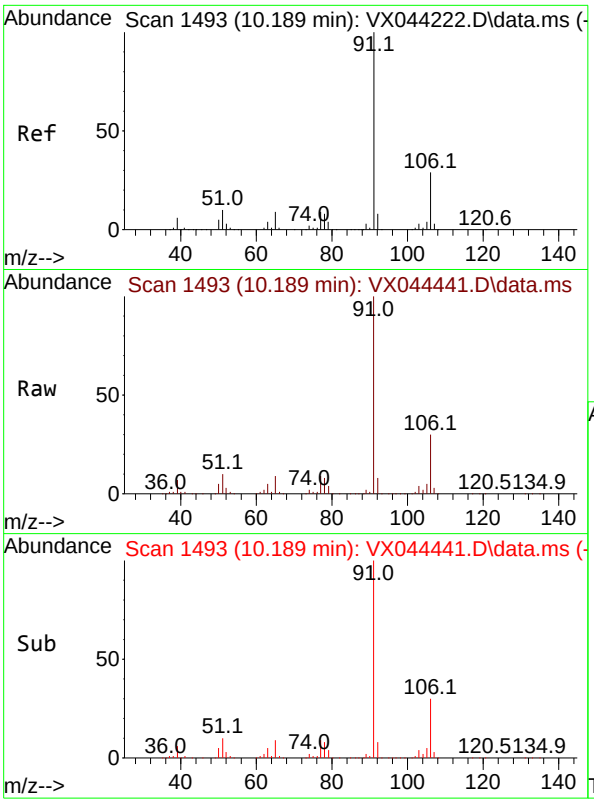


#66
1,1,1,2-Tetrachloroethane
Concen: 20.643 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:131 Resp: 30193

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	141.8
119	63.9	31.6	95.0



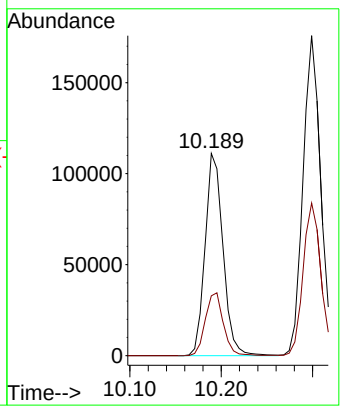


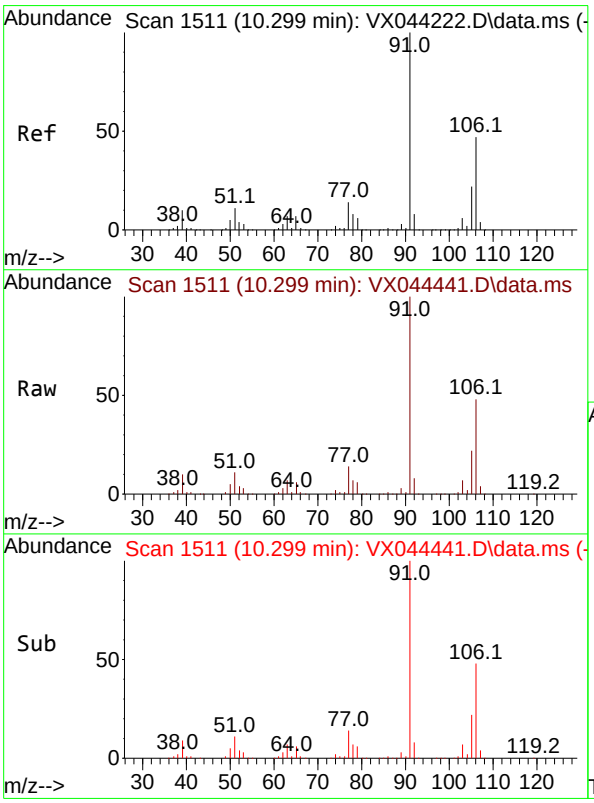
#67
Ethyl Benzene
Concen: 19.217 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 91 Resp: 151105

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.5	35.3

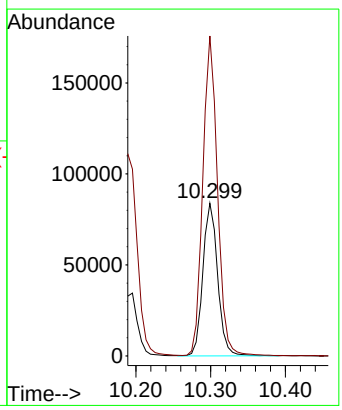


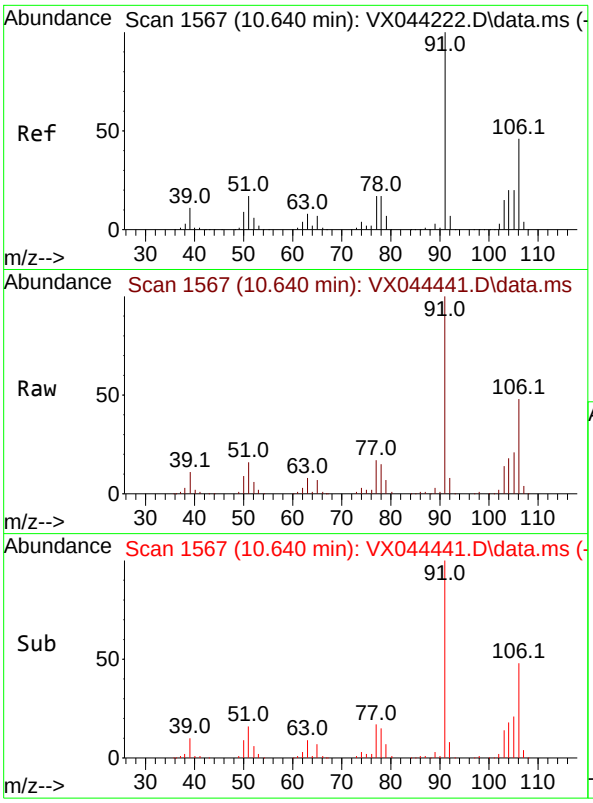


#68
m/p-Xylenes
Concen: 39.825 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:106 Resp: 114910

Ion	Ratio	Lower	Upper
106	100		
91	208.6	170.2	255.2



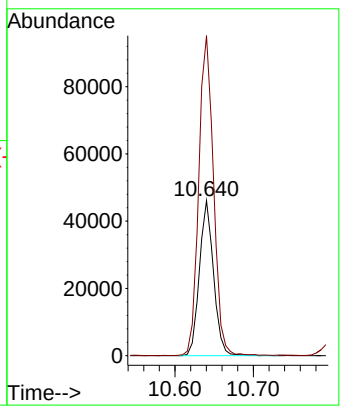


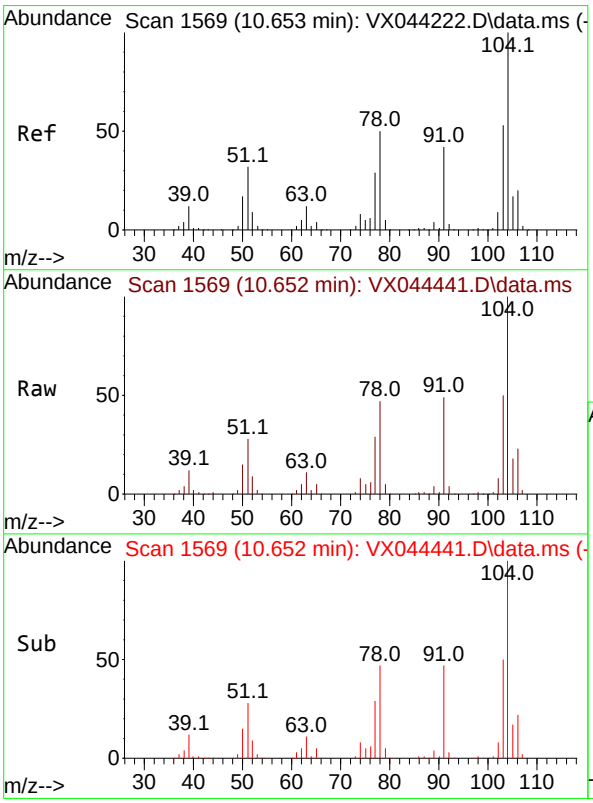
#69
o-Xylene
Concen: 19.797 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:106 Resp: 57794

Ion	Ratio	Lower	Upper
106	100		
91	216.0	112.3	337.0

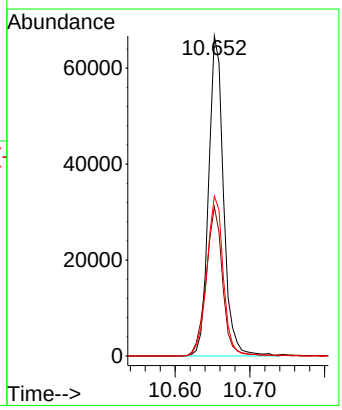


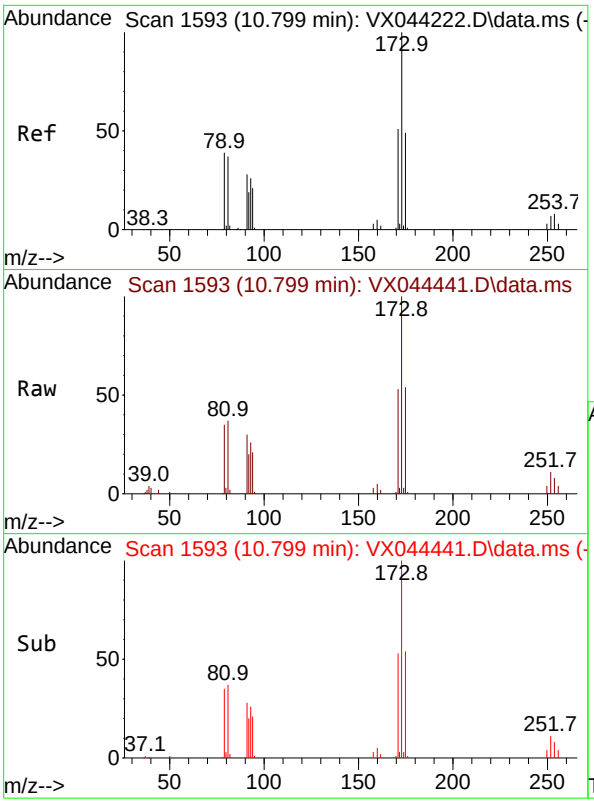


#70
Styrene
Concen: 19.825 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:104 Resp: 92784

Ion	Ratio	Lower	Upper
104	100		
78	51.2	44.6	67.0
103	55.0	45.4	68.0



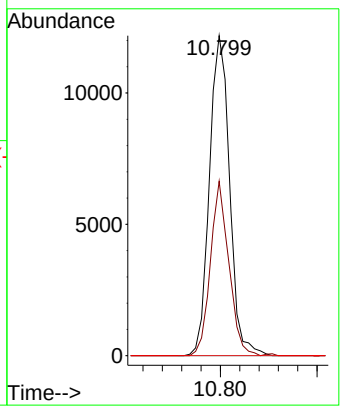


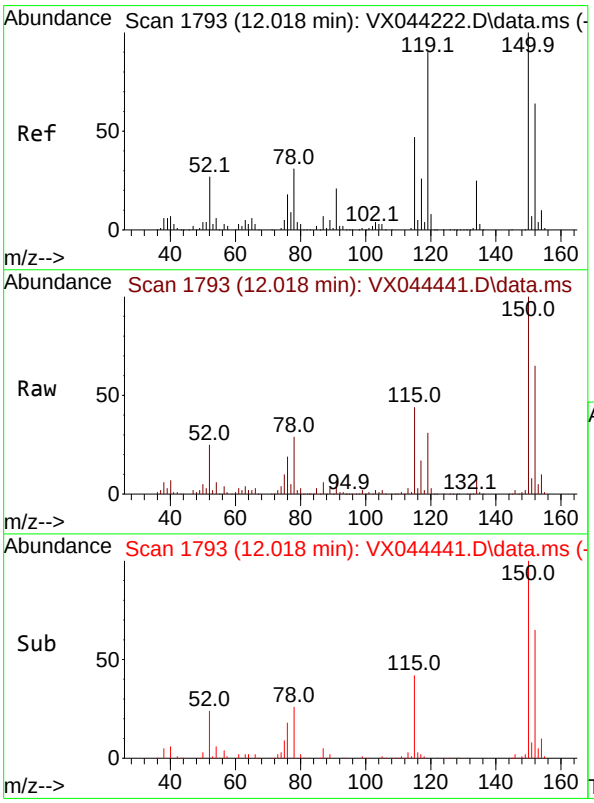
#71
Bromoform
Concen: 19.275 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:173 Resp: 17659

Ion	Ratio	Lower	Upper
173	100		
175	49.7	23.8	71.4
254	0.0	0.0	0.0

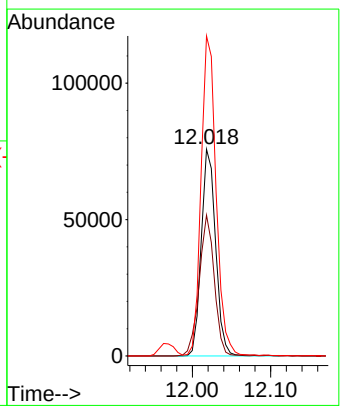


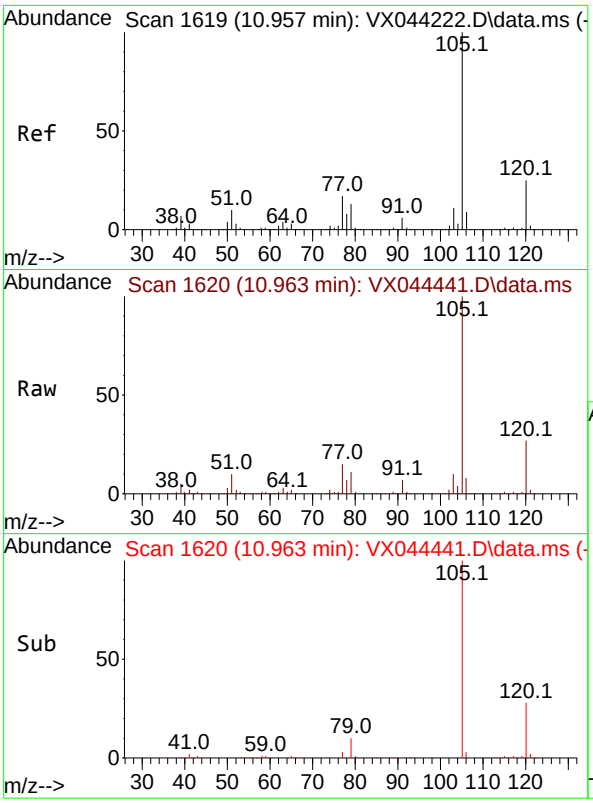


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:152 Resp: 96885

Ion	Ratio	Lower	Upper
152	100		
115	71.2	44.5	133.3
150	160.7	0.0	353.8



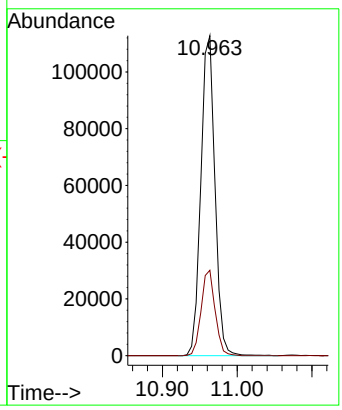


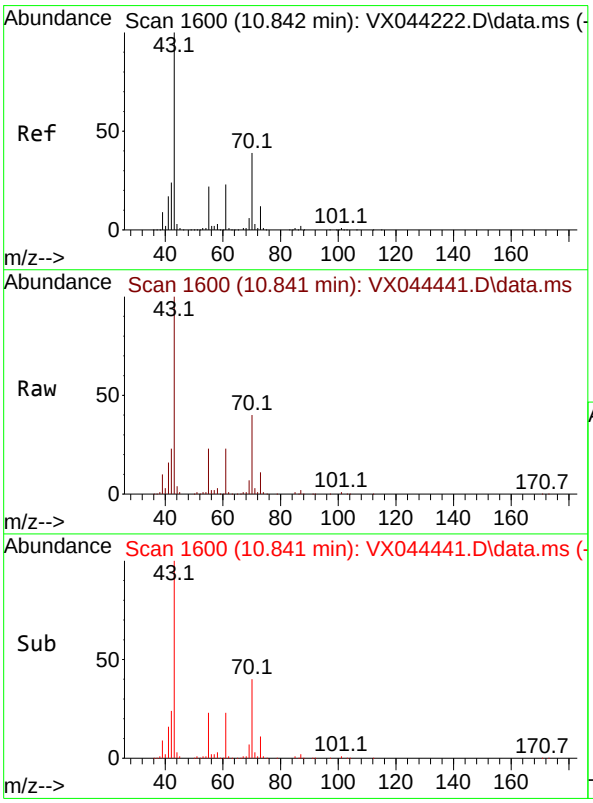
#73
Isopropylbenzene
Concen: 19.872 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:105 Resp: 147393

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.1	39.3

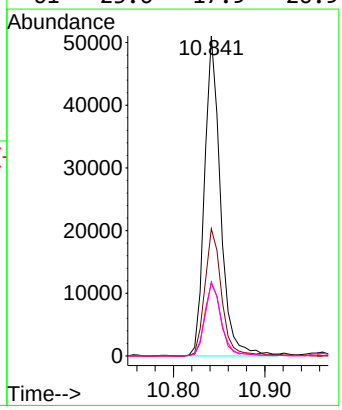


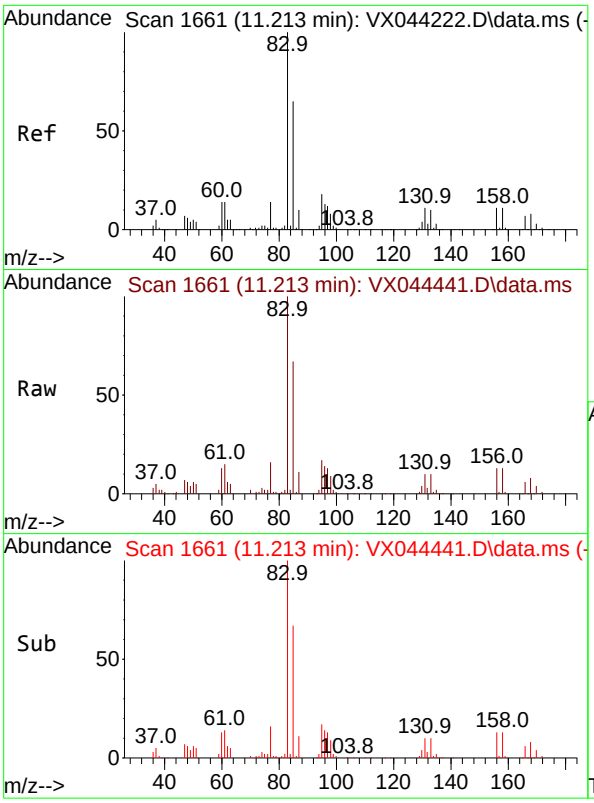


#74
N-amyl acetate
Concen: 18.038 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 43 Resp: 61829

Ion	Ratio	Lower	Upper
43	100		
70	41.5	31.9	47.9
55	23.7	17.9	26.9
61	23.6	17.9	26.9



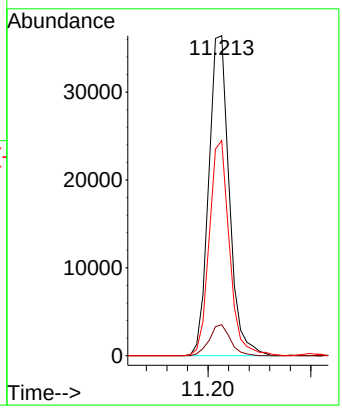


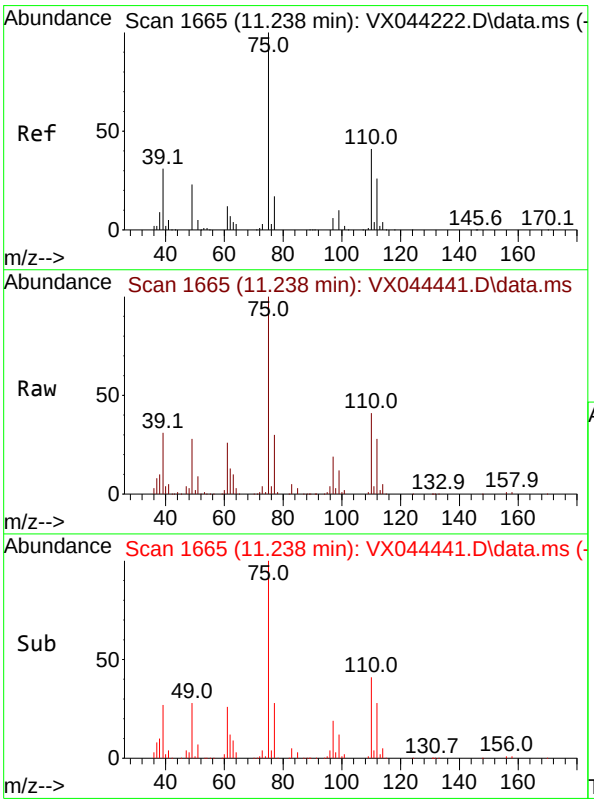
#75
1,1,2,2-Tetrachloroethane
Concen: 19.570 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 83 Resp: 50416

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	65.9	32.5	97.4

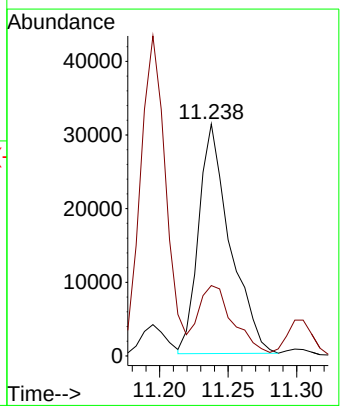


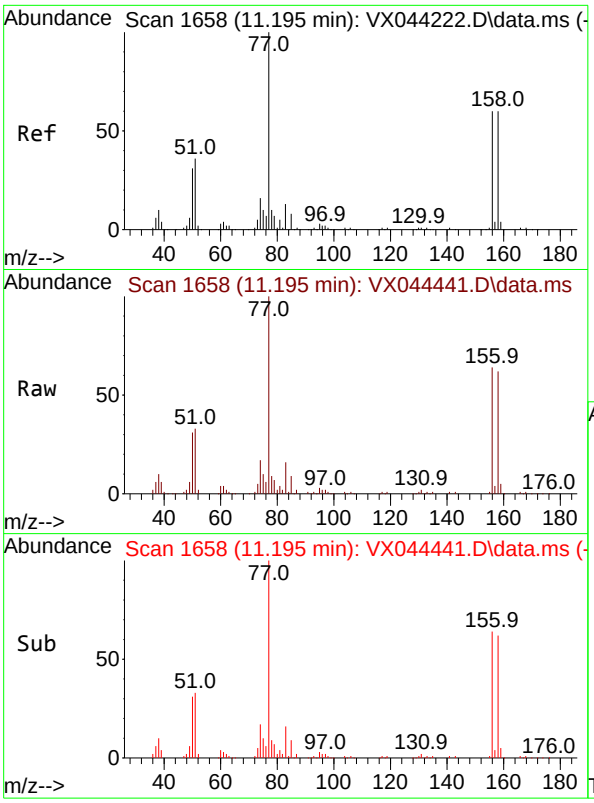


#76
1,2,3-Trichloropropane
Concen: 23.007 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 49769

Ion	Ratio	Lower	Upper
75	100		
77	34.3	20.9	62.7



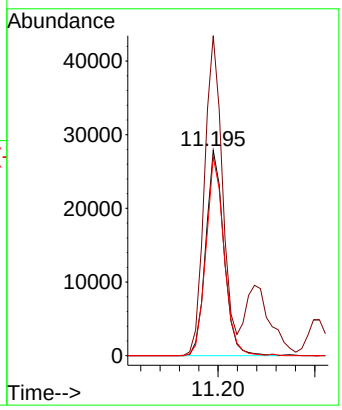


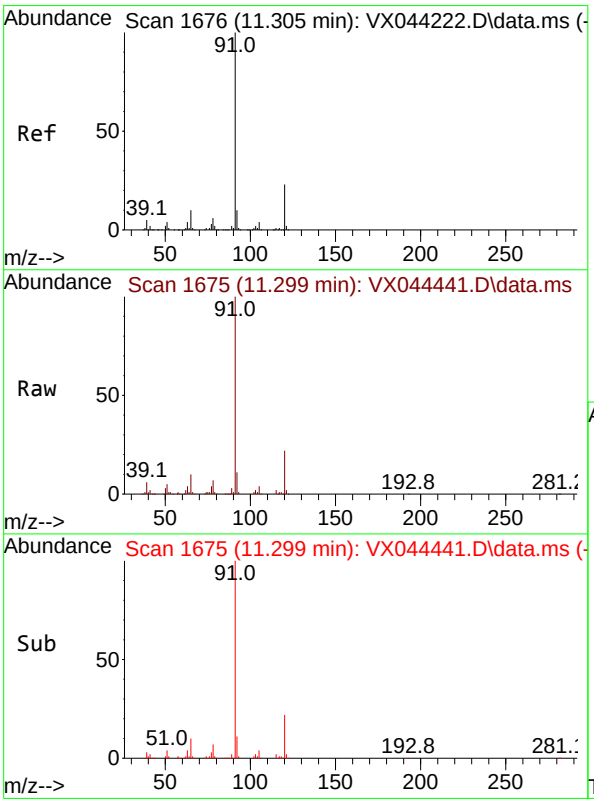
#77
Bromobenzene
Concen: 20.145 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:156 Resp: 36233

Ion	Ratio	Lower	Upper
156	100		
77	155.2	82.6	247.8
158	96.9	48.8	146.4

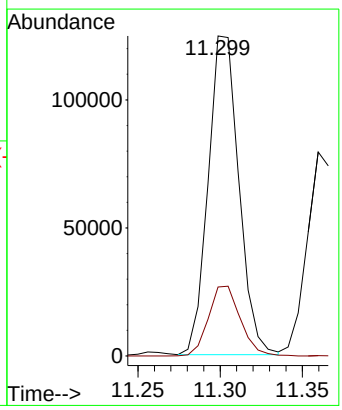


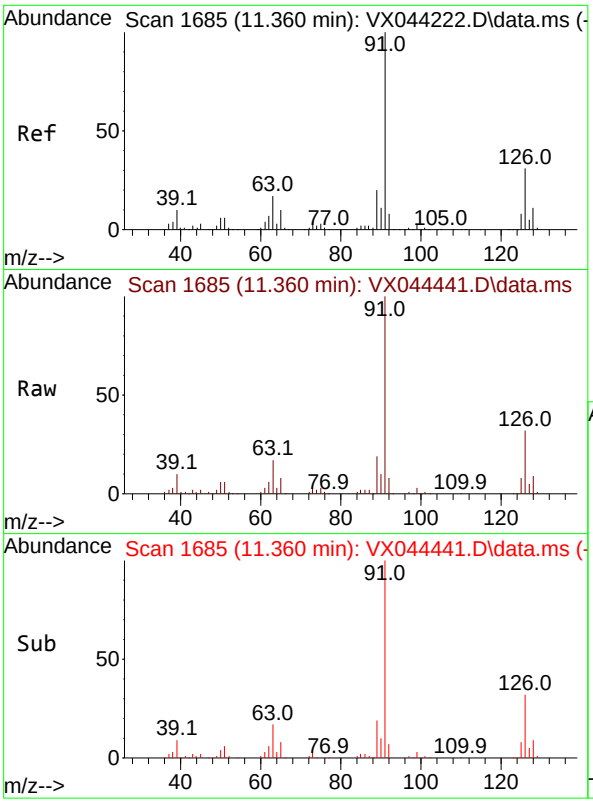


#78
n-propylbenzene
Concen: 19.765 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 162028

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.0	33.0



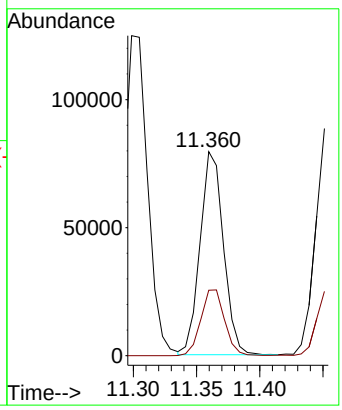


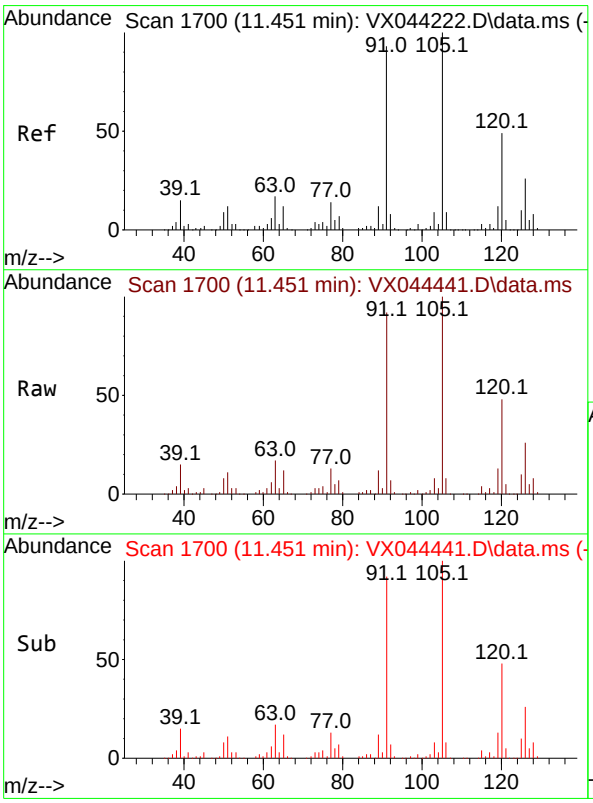
#79
2-Chlorotoluene
Concen: 19.279 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 91 Resp: 102209

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.1

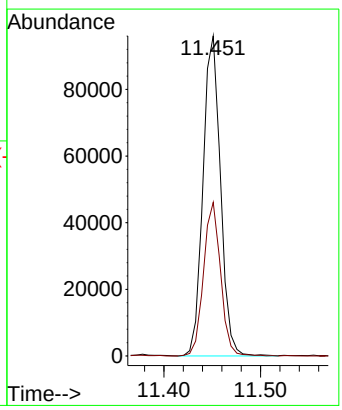


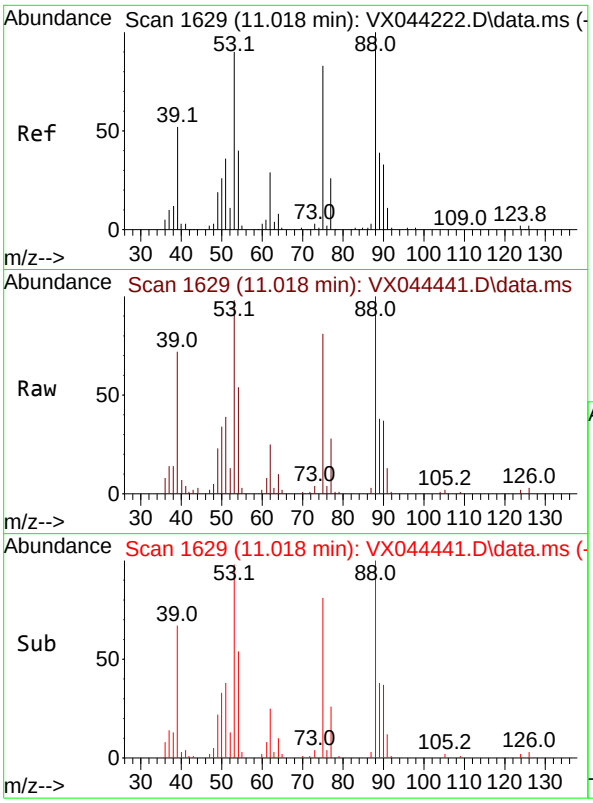


#80
1,3,5-Trimethylbenzene
Concen: 19.709 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121225

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.8	71.4



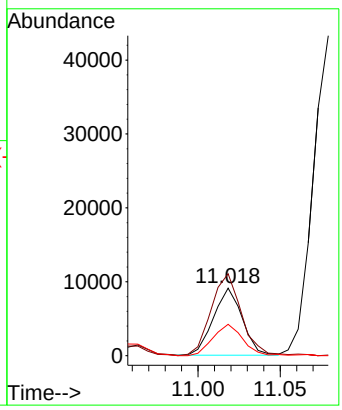


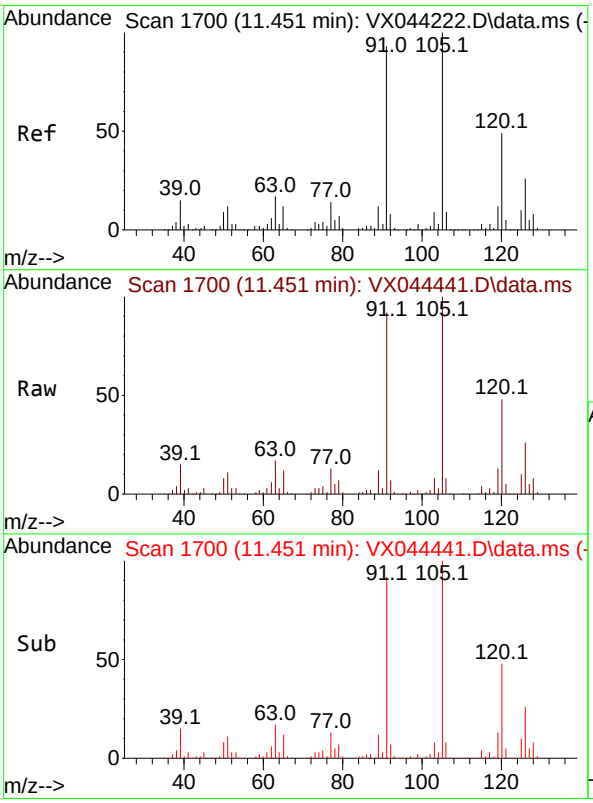
#81
trans-1,4-Dichloro-2-butene
Concen: 18.609 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 75 Resp: 11072

Ion	Ratio	Lower	Upper
75	100		
53	129.5	93.6	140.4
89	48.5	37.3	55.9

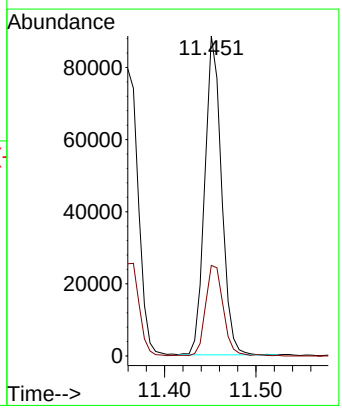


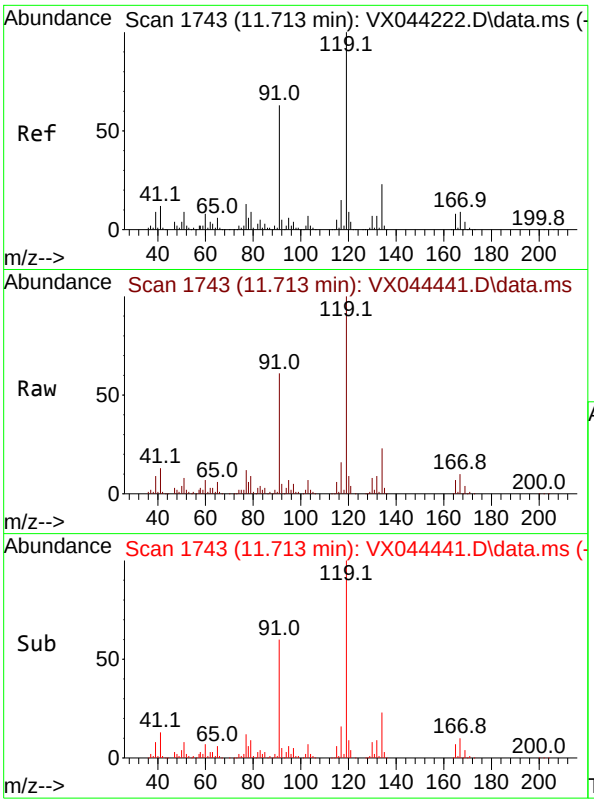


#82
4-Chlorotoluene
Concen: 19.122 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 91 Resp: 112263

Ion	Ratio	Lower	Upper
91	100		
126	30.4	14.5	43.5



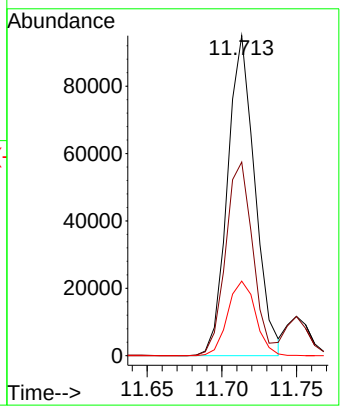


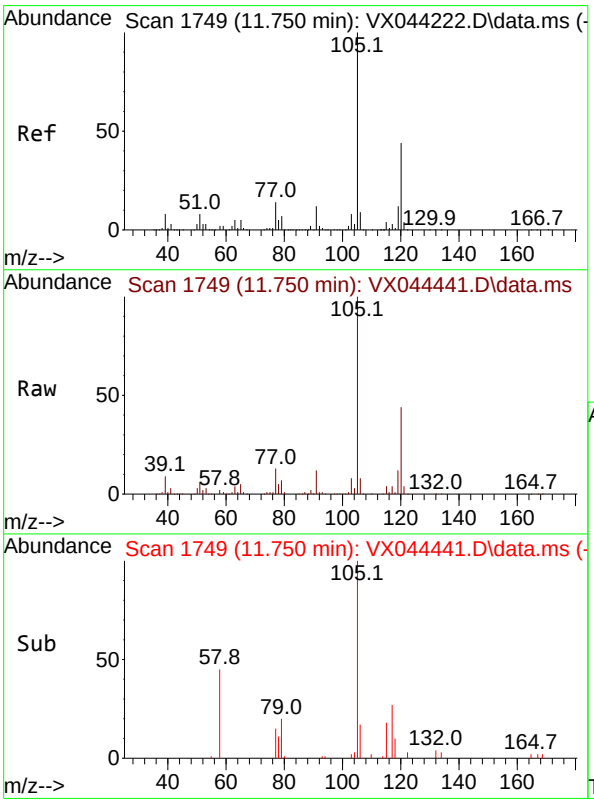
#83
tert-Butylbenzene
Concen: 19.827 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:119 Resp: 120518

Ion	Ratio	Lower	Upper
119	100		
91	61.1	30.9	92.5
134	23.9	11.5	34.4

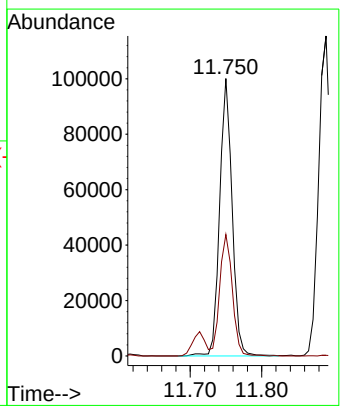


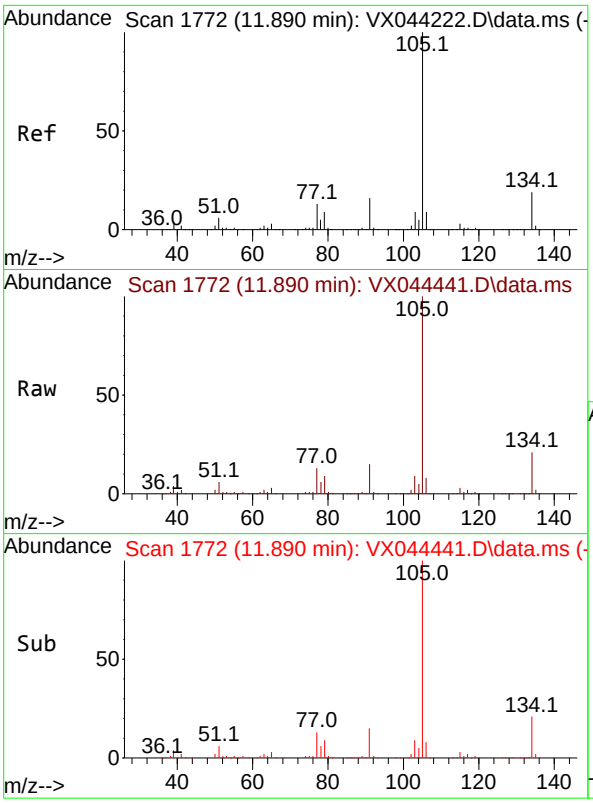


#84
1,2,4-Trimethylbenzene
Concen: 20.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:105 Resp: 121322

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1



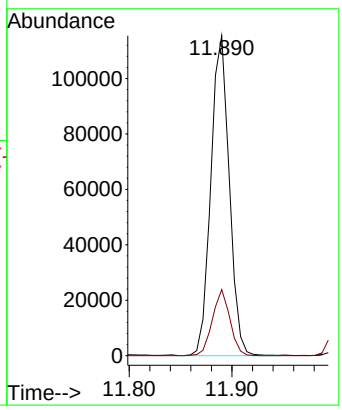


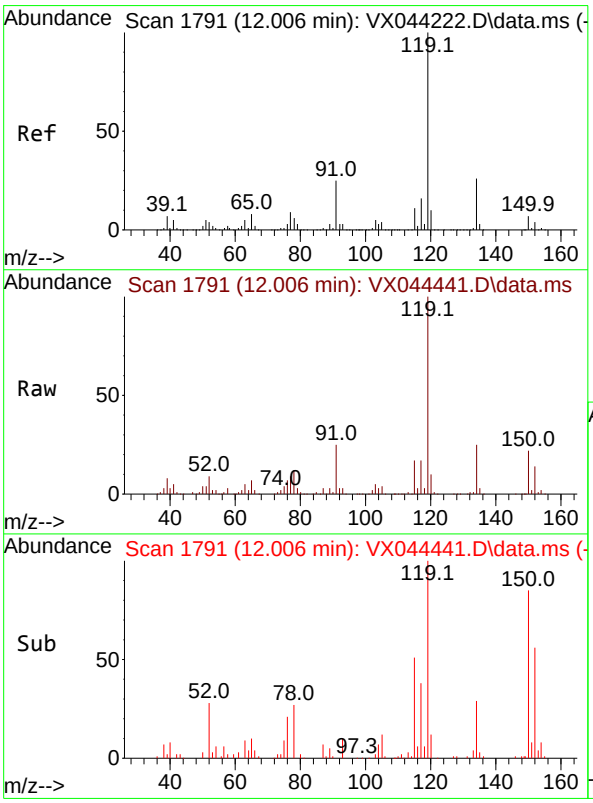
#85
sec-Butylbenzene
Concen: 19.477 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:105 Resp: 143732

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.4

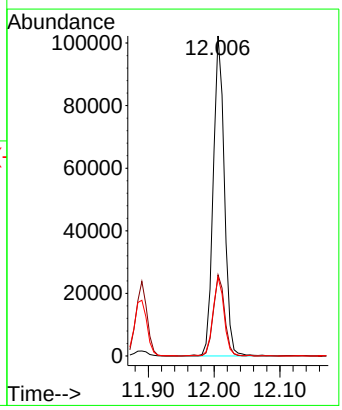


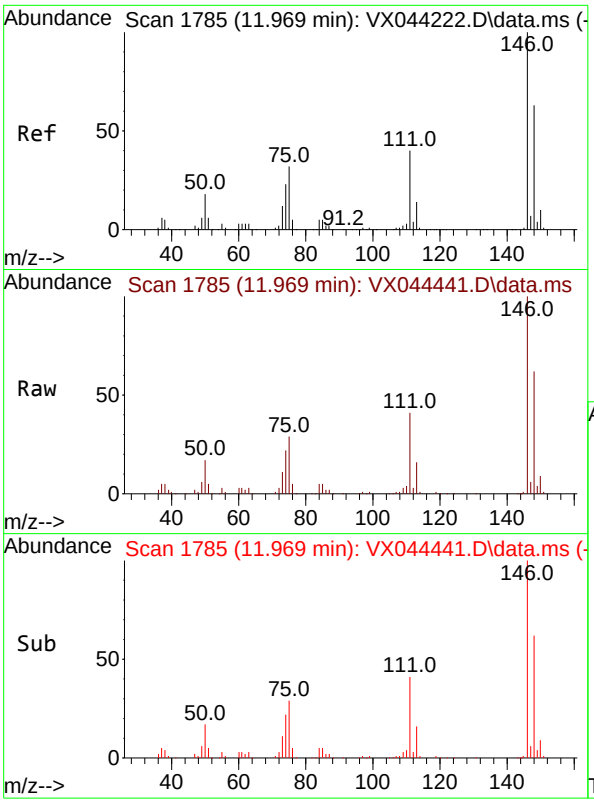


#86
p-Isopropyltoluene
Concen: 19.596 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:119 Resp: 120356

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.8	38.4
91	24.7	13.0	39.0



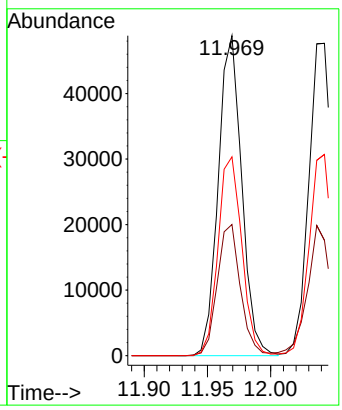


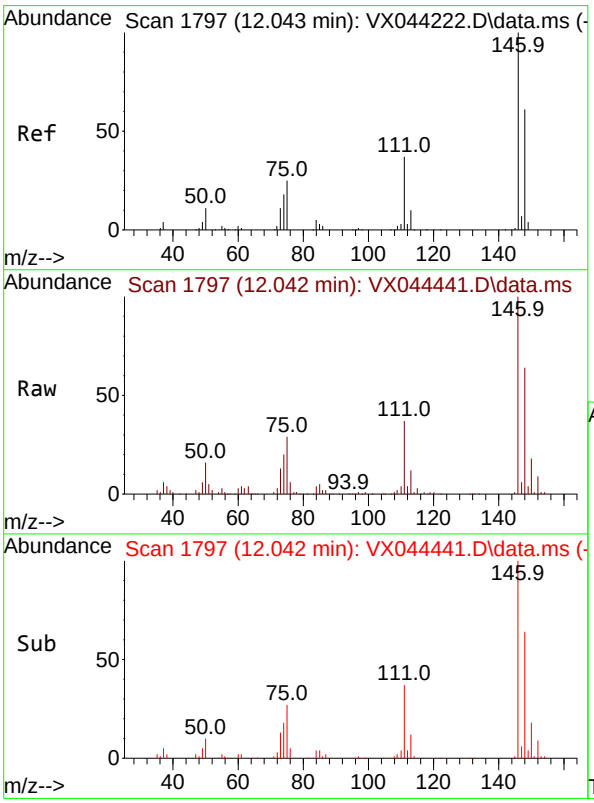
#87
1,3-Dichlorobenzene
Concen: 20.058 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:146 Resp: 63016

Ion	Ratio	Lower	Upper
146	100		
111	40.6	21.4	64.2
148	63.0	31.7	95.1

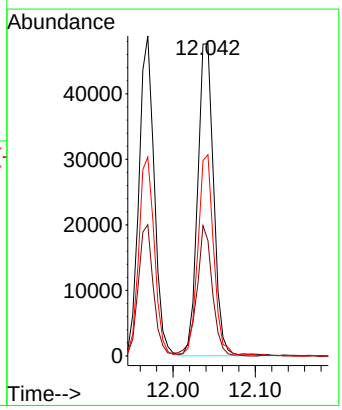


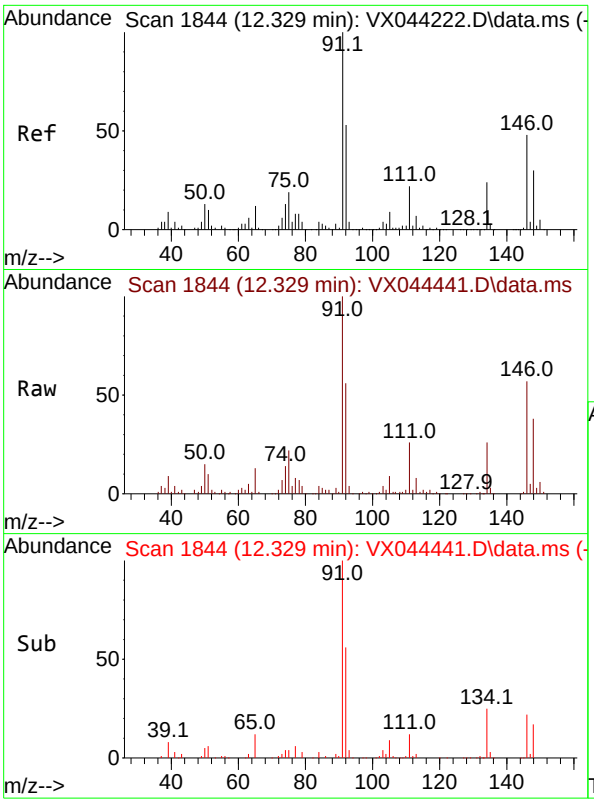


#88
1,4-Dichlorobenzene
Concen: 19.954 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:146 Resp: 64444

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.0	63.0
148	63.0	32.3	96.8



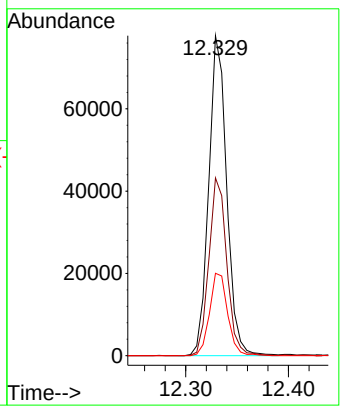


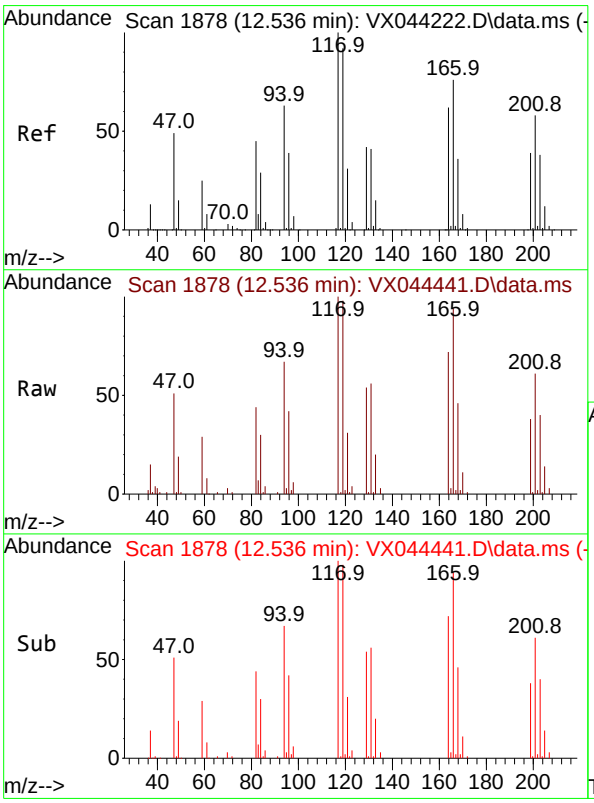
#89
n-Butylbenzene
Concen: 18.279 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion: 91 Resp: 94402

Ion	Ratio	Lower	Upper
91	100		
92	55.5	26.6	79.7
134	25.9	12.6	37.8

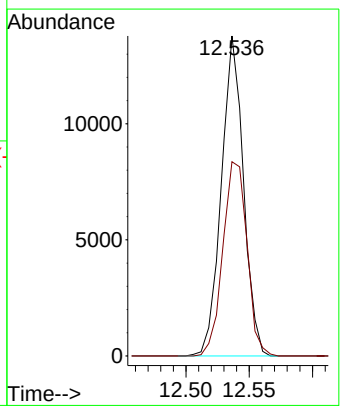


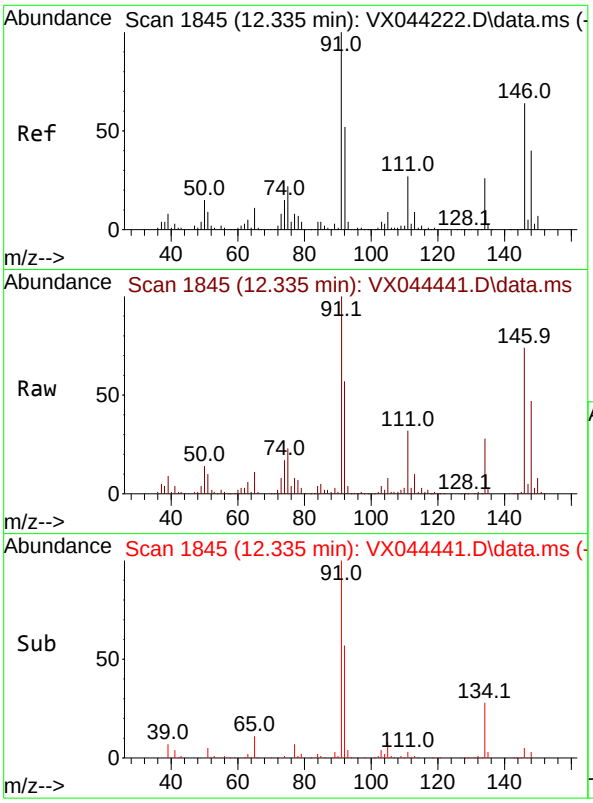


#90
Hexachloroethane
Concen: 18.640 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:117 Resp: 16712

Ion	Ratio	Lower	Upper
117	100		
201	66.5	31.4	94.2



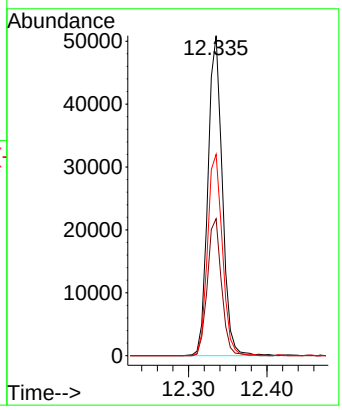


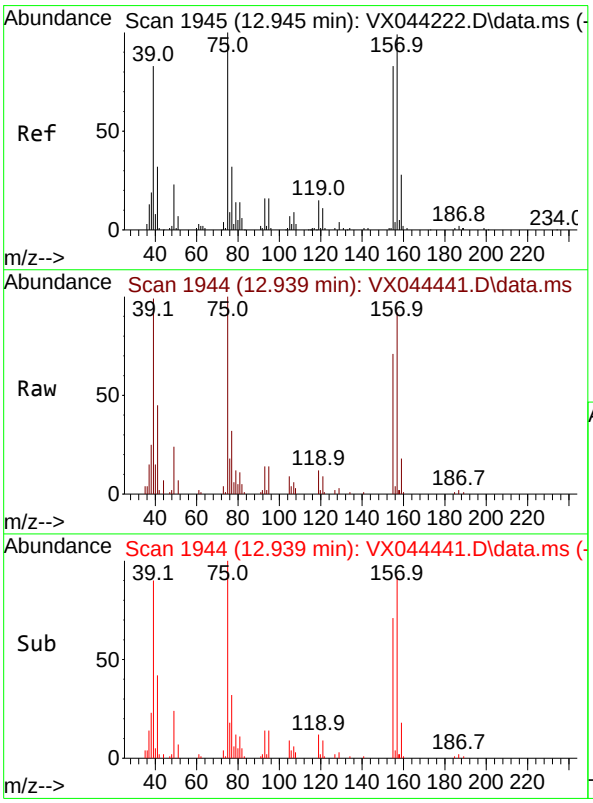
#91
1,2-Dichlorobenzene
Concen: 19.798 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:146 Resp: 64584

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.4	64.3
148	64.8	31.6	95.0

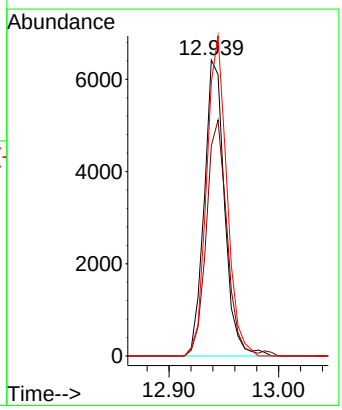


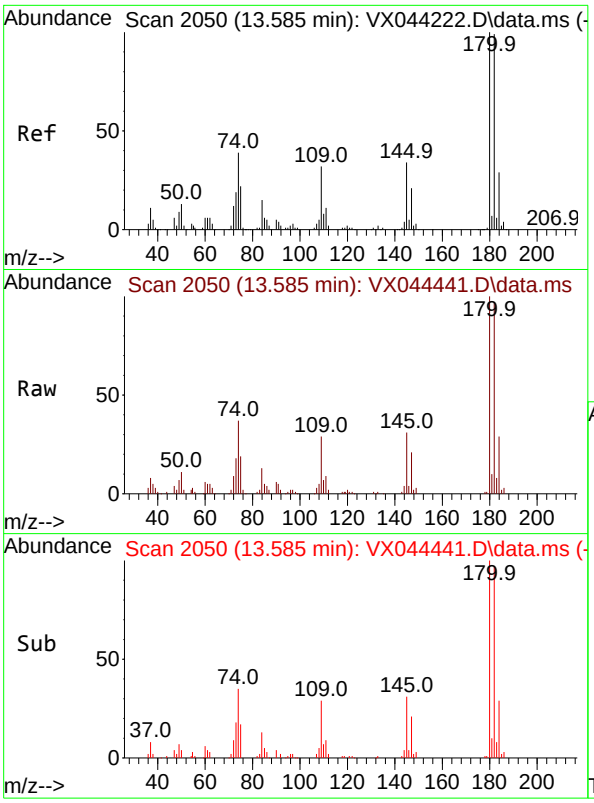


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.523 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.006 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion: 75 Resp: 8263

Ion	Ratio	Lower	Upper
75	100		
155	81.6	38.1	114.3
157	107.5	47.2	141.6



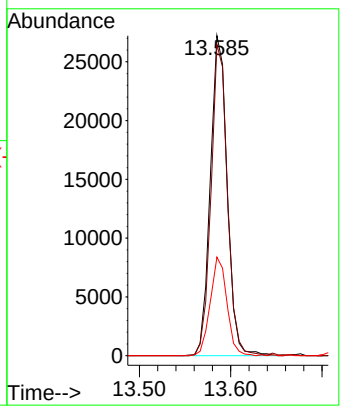


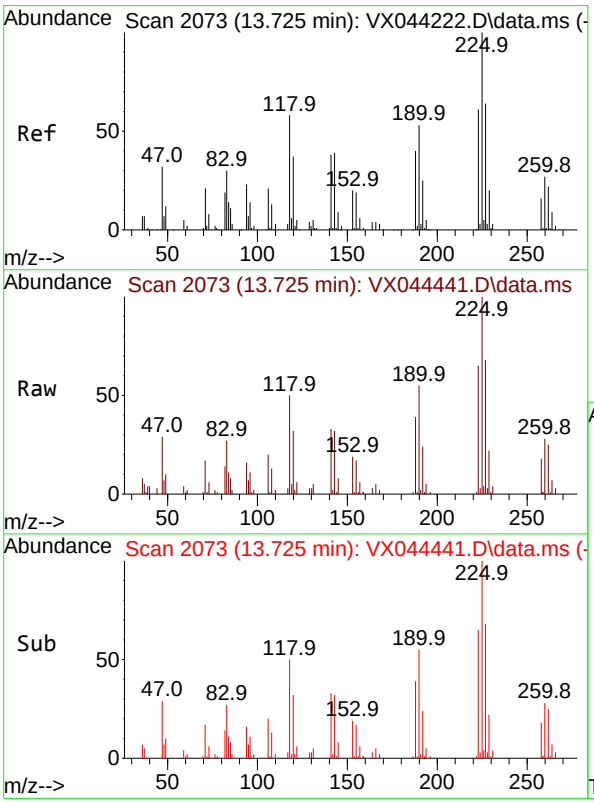
#93
1,2,4-Trichlorobenzene
Concen: 19.470 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:180 Resp: 34820

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.2
145	30.4	16.6	49.7

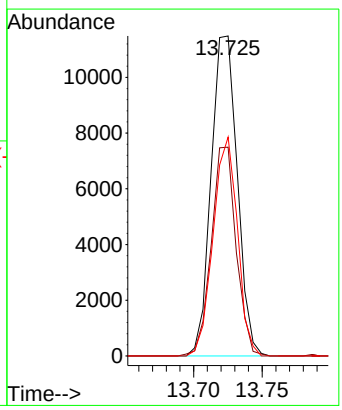


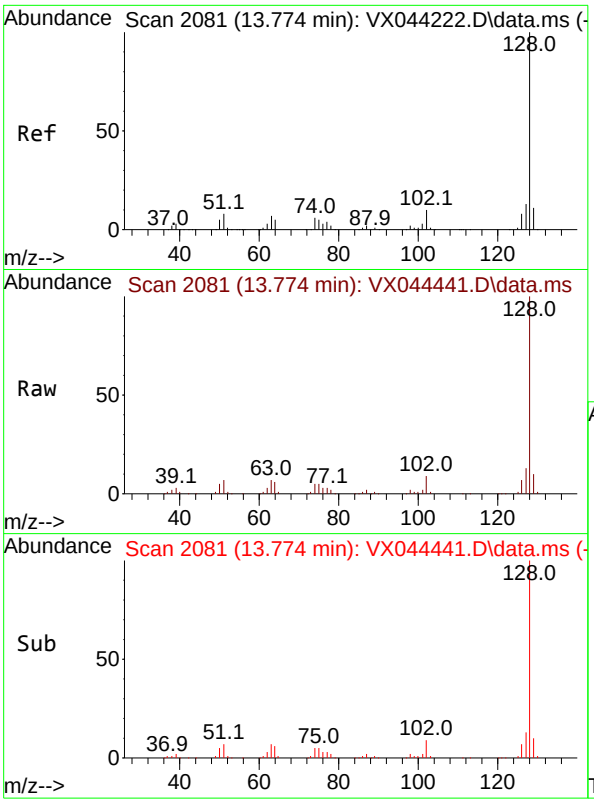


#94
Hexachlorobutadiene
Concen: 21.174 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:225 Resp: 15232

Ion	Ratio	Lower	Upper
225	100		
223	62.0	30.8	92.4
227	63.6	32.1	96.3



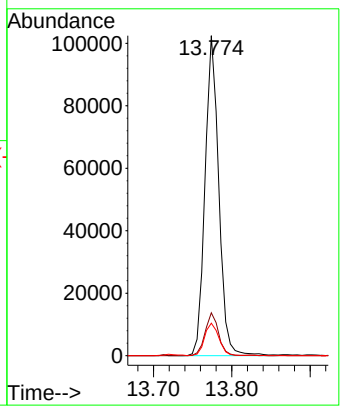


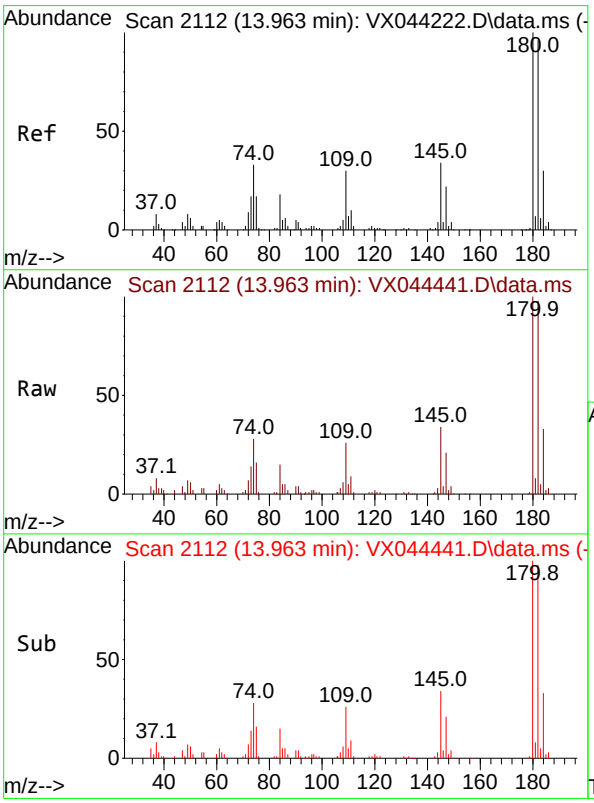
#95
Naphthalene
Concen: 17.830 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX1220WBS01

Tgt Ion:128 Resp: 124472

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.7	9.0	13.4

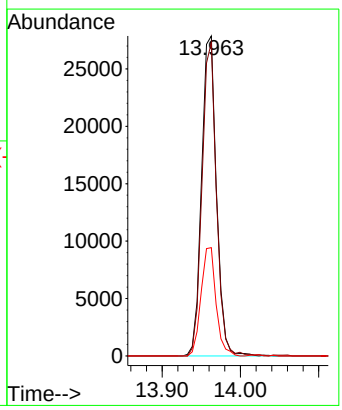




#96
1,2,3-Trichlorobenzene
Concen: 19.378 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. -0.000 min
Lab File: VX044441.D
Acq: 20 Dec 2024 10:46

Tgt Ion:180 Resp: 36757

Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.0	144.0
145	34.2	17.7	53.1



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	140284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	239068	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	206477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	109103	44.357	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.720%			
35) Dibromofluoromethane	5.379	113	86675	52.347	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.700%			
50) Toluene-d8	8.647	98	290046	51.923	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.840%			
62) 4-Bromofluorobenzene	11.079	95	99862	51.161	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	104302	48.084	ug/l	95
3) Chloromethane	1.294	50	97601	47.052	ug/l	99
4) Vinyl Chloride	1.374	62	102407	47.388	ug/l	96
5) Bromomethane	1.593	94	69880	45.581	ug/l	98
6) Chloroethane	1.666	64	71114	52.848	ug/l	97
7) Trichlorofluoromethane	1.868	101	168610	39.855	ug/l	98
8) Diethyl Ether	2.136	74	61643	42.687	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	82704	48.311	ug/l	96
10) Methyl Iodide	2.441	142	113213	50.177	ug/l	98
11) Tert butyl alcohol	2.989	59	71333	205.778	ug/l	100
12) 1,1-Dichloroethene	2.306	96	78622	50.001	ug/l	95
13) Acrolein	2.239	56	111786	222.774	ug/l	98
14) Allyl chloride	2.654	41	124514	47.541	ug/l	97
15) Acrylonitrile	3.062	53	217189	226.182	ug/l	98
16) Acetone	2.386	43	189212	188.692	ug/l	95
17) Carbon Disulfide	2.502	76	152826	51.130	ug/l	100
18) Methyl Acetate	2.709	43	120686	46.678	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	276668	45.089	ug/l	99
20) Methylene Chloride	2.782	84	89276	47.401	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	81078	48.517	ug/l	99
22) Diisopropyl ether	3.764	45	265503	45.018	ug/l	98
23) Vinyl Acetate	3.721	43	1167584	243.510	ug/l	98
24) 1,1-Dichloroethane	3.605	63	157858	48.018	ug/l	99
25) 2-Butanone	4.562	43	303982	213.237	ug/l	98
26) 2,2-Dichloropropane	4.471	77	116211	43.513	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	100836	47.511	ug/l	95
28) Bromochloromethane	4.891	49	71526	44.369	ug/l	95
29) Tetrahydrofuran	5.007	42	194494	212.557	ug/l	99
30) Chloroform	5.093	83	166909	45.189	ug/l	99
31) Cyclohexane	5.464	56	122203	46.033	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	144394	47.095	ug/l	99
36) 1,1-Dichloropropene	5.684	75	104911	49.017	ug/l	97
37) Ethyl Acetate	4.721	43	127468	48.180	ug/l	100
38) Carbon Tetrachloride	5.666	117	118357	51.365	ug/l	99
39) Methylcyclohexane	7.373	83	131438	51.370	ug/l	96
40) Benzene	6.031	78	333117	51.262	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	66592	47.401 ug/l		98
42) 1,2-Dichloroethane	6.080	62	127634	47.680 ug/l		98
43) Isopropyl Acetate	6.342	43	198680	48.047 ug/l		98
44) Trichloroethene	7.117	130	86021	53.083 ug/l		93
45) 1,2-Dichloropropane	7.428	63	82383	49.622 ug/l		96
46) Dibromomethane	7.574	93	65924	51.184 ug/l		94
47) Bromodichloromethane	7.818	83	117278	52.723 ug/l		100
48) Methyl methacrylate	7.690	41	94575	47.115 ug/l		96
49) 1,4-Dioxane	7.659	88	33398	1003.530 ug/l		93
51) 4-Methyl-2-Pentanone	8.574	43	625919	235.413 ug/l		99
52) Toluene	8.714	92	204328	50.071 ug/l		100
53) t-1,3-Dichloropropene	8.976	75	115268	48.388 ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	127004	52.437 ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	82378	50.814 ug/l		96
56) Ethyl methacrylate	9.116	69	131845	51.516 ug/l		95
57) 1,3-Dichloropropane	9.305	76	140522	49.799 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	314516	243.652 ug/l		98
59) 2-Hexanone	9.433	43	454909	236.376 ug/l		99
60) Dibromochloromethane	9.519	129	86219	50.206 ug/l		99
61) 1,2-Dibromoethane	9.604	107	87547	53.053 ug/l		98
64) Tetrachloroethene	9.269	164	70888	51.727 ug/l		97
65) Chlorobenzene	10.079	112	225888	51.056 ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	79060	55.601 ug/l		99
67) Ethyl Benzene	10.189	91	385756	50.462 ug/l		96
68) m/p-Xylenes	10.299	106	294612	105.028 ug/l		95
69) o-Xylene	10.640	106	146149	51.494 ug/l		93
70) Styrene	10.653	104	240058	52.761 ug/l		96
71) Bromoform	10.799	173	51823	51.900 ug/l	#	99
73) Isopropylbenzene	10.957	105	374548	50.011 ug/l		100
74) N-amyl acetate	10.842	43	168135	48.576 ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	125030	48.065 ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	131971	60.417 ug/l		84
77) Bromobenzene	11.195	156	94262	51.903 ug/l		94
78) n-propylbenzene	11.305	91	417465	50.432 ug/l		98
79) 2-Chlorotoluene	11.360	91	253139	47.285 ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	309218	49.787 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	32407	43.348 ug/l		95
82) 4-Chlorotoluene	11.451	91	289306	48.802 ug/l		98
83) tert-Butylbenzene	11.713	119	312731	50.950 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	308415	50.564 ug/l		98
85) sec-Butylbenzene	11.890	105	376639	50.546 ug/l		99
86) p-Isopropyltoluene	12.006	119	319422	51.504 ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	163311	51.480 ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	161681	49.579 ug/l		98
89) n-Butylbenzene	12.329	91	261860	50.212 ug/l		99
90) Hexachloroethane	12.536	117	47928	52.940 ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	167214	50.764 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	23250	46.042 ug/l		87
93) 1,2,4-Trichlorobenzene	13.585	180	97858	54.188 ug/l		98
94) Hexachlorobutadiene	13.725	225	40506	55.763 ug/l		98
95) Naphthalene	13.774	128	343151	48.680 ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	101400	52.939 ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration

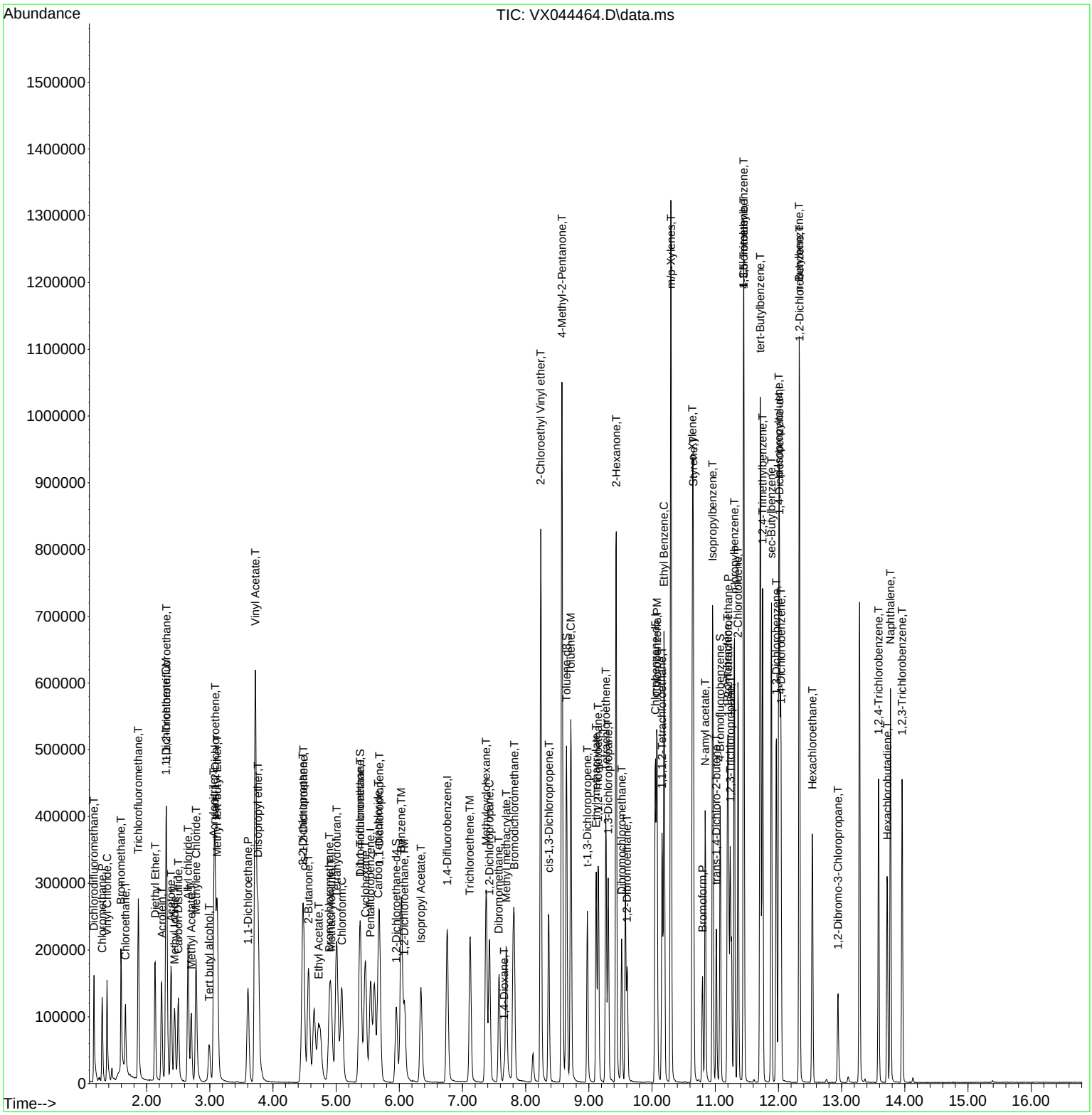
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

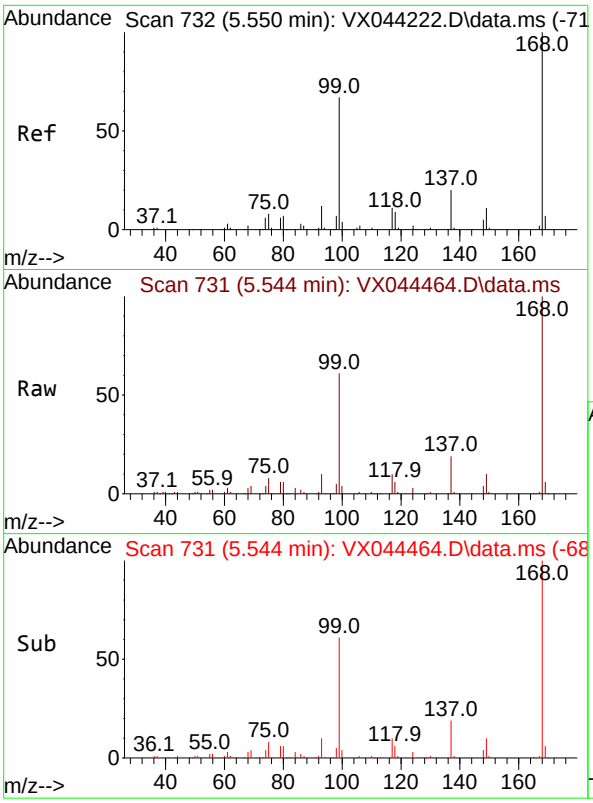
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122024\
Data File : VX044464.D
Acq On : 20 Dec 2024 19:49
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Dec 20 22:37:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121124W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 12 04:28:14 2024
Response via : Initial Calibration



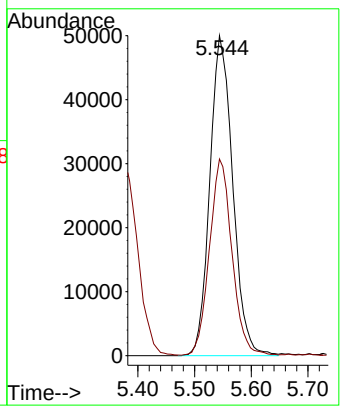


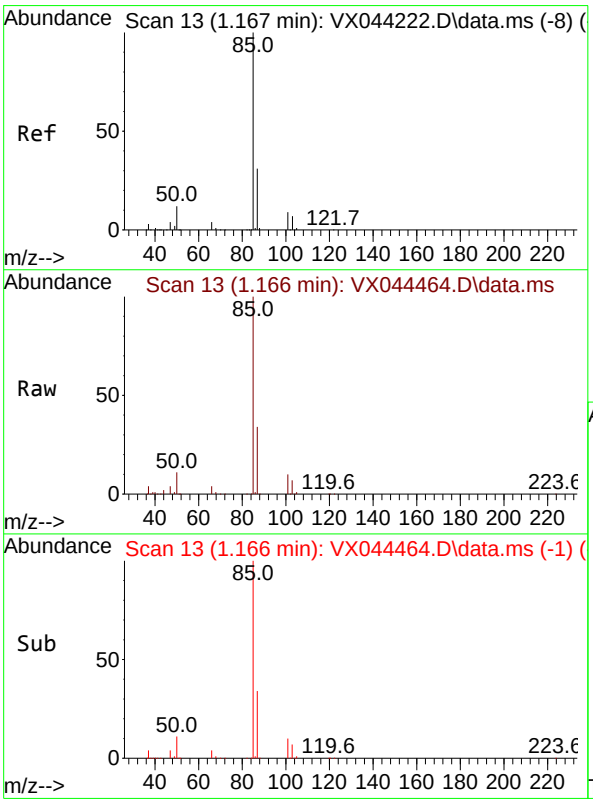
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 140284

Ion	Ratio	Lower	Upper
168	100		
99	61.2	53.4	80.0

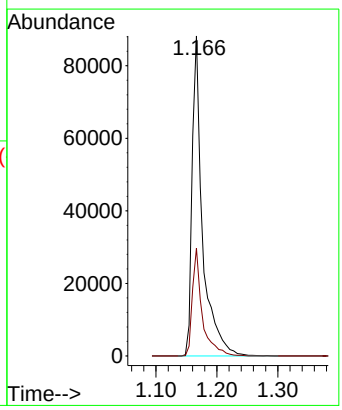


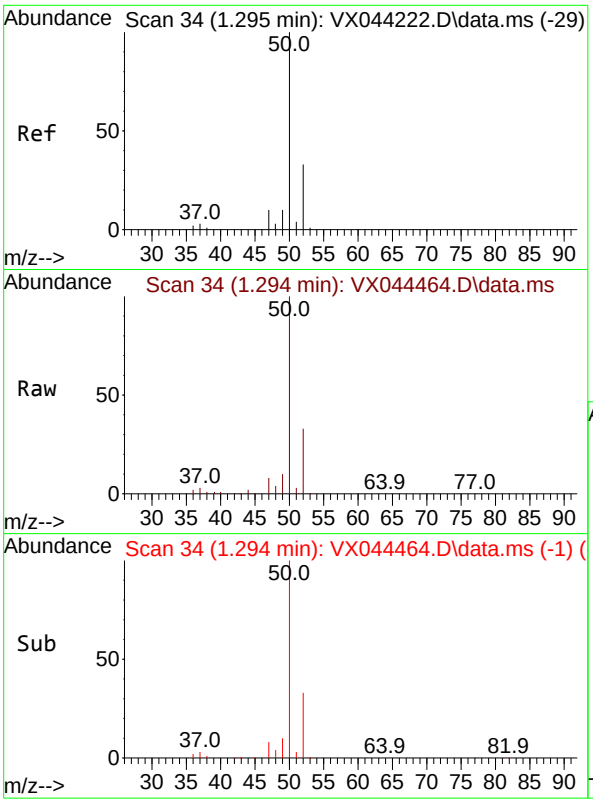


#2
Dichlorodifluoromethane
Concen: 48.084 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 85 Resp: 104302

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.4	46.4



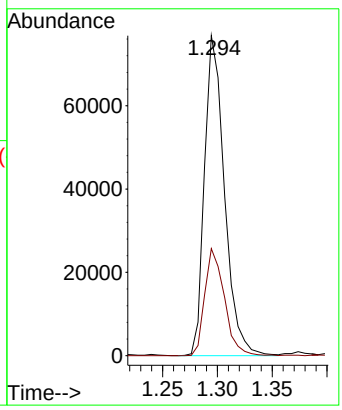


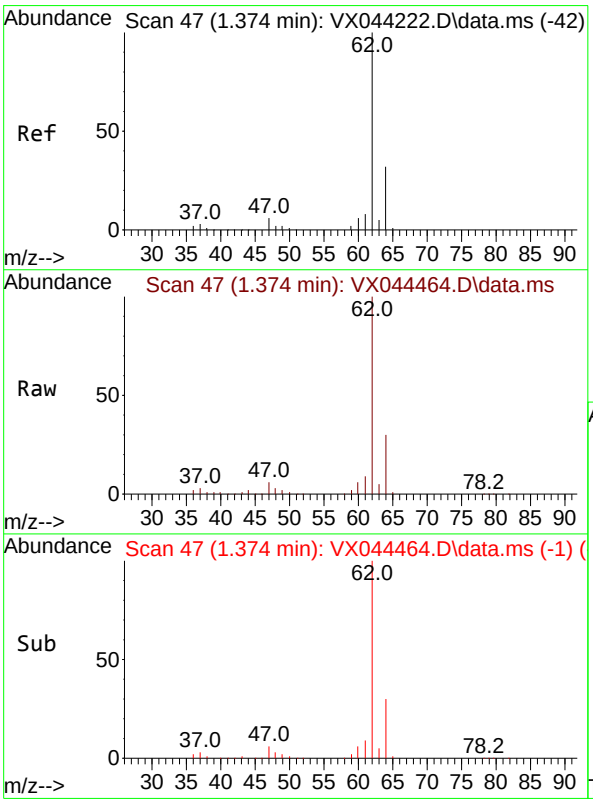
#3
Chloromethane
Concen: 47.052 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 97601

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7

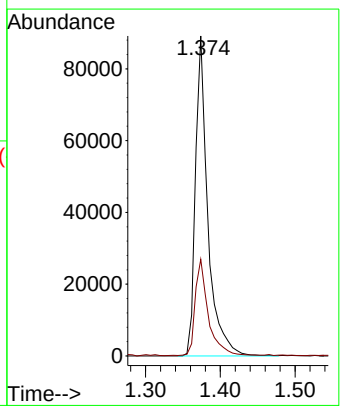


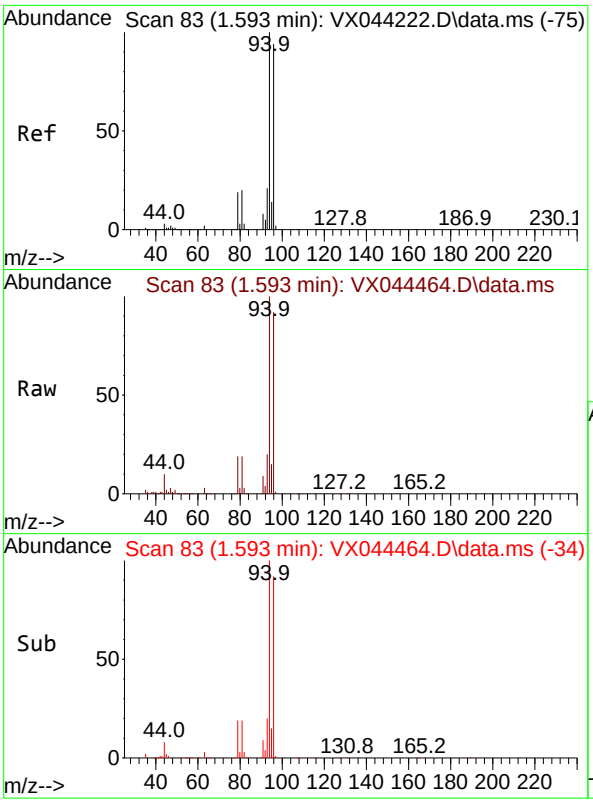


#4
Vinyl Chloride
Concen: 47.388 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 102407

Ion	Ratio	Lower	Upper
62	100		
64	30.0	25.7	38.5



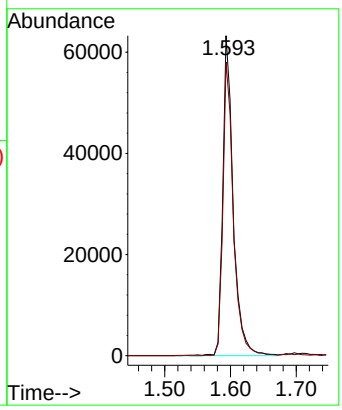


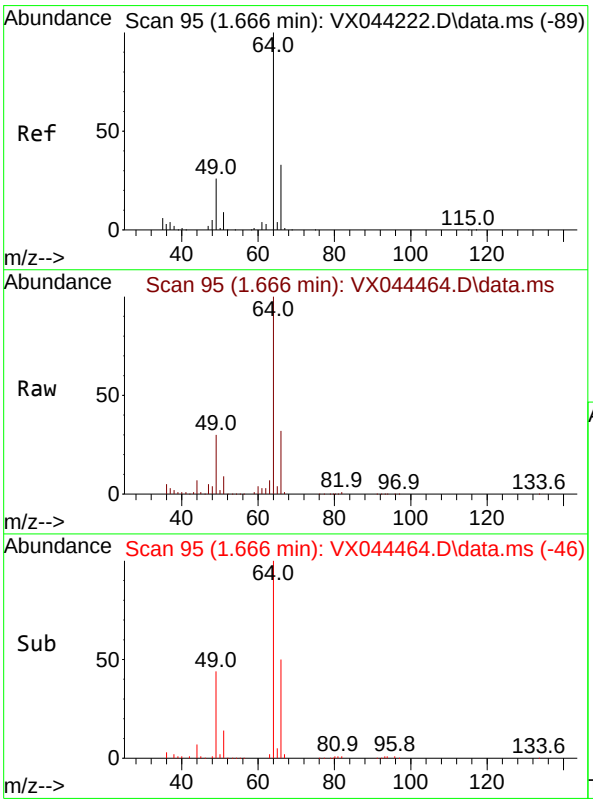
#5
Bromomethane
Concen: 45.581 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 69880

Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.9	112.3

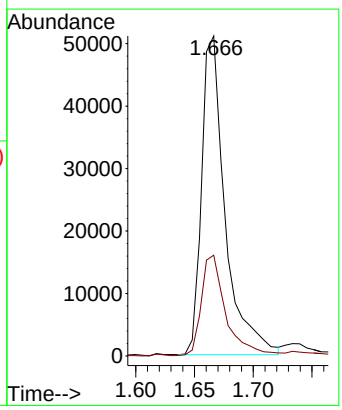


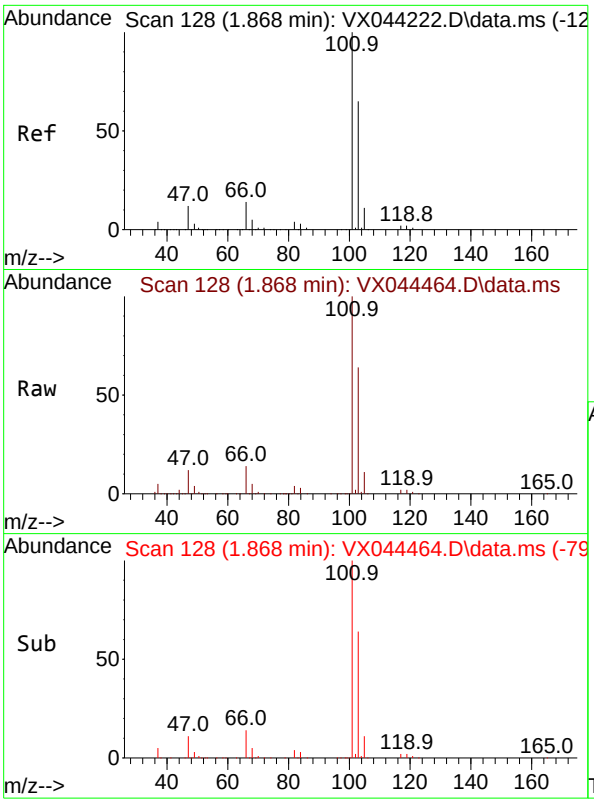


#6
Chloroethane
Concen: 52.848 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 64 Resp: 71114

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.6	39.8



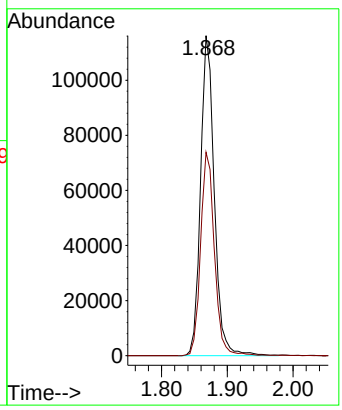


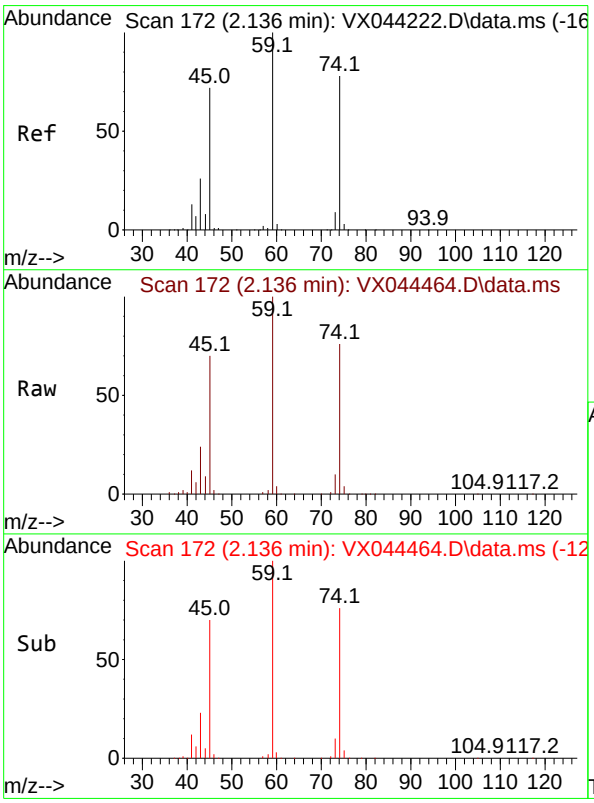
#7
Trichlorofluoromethane
Concen: 39.855 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 168610

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.8	77.8

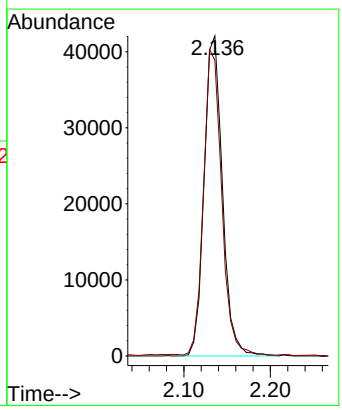


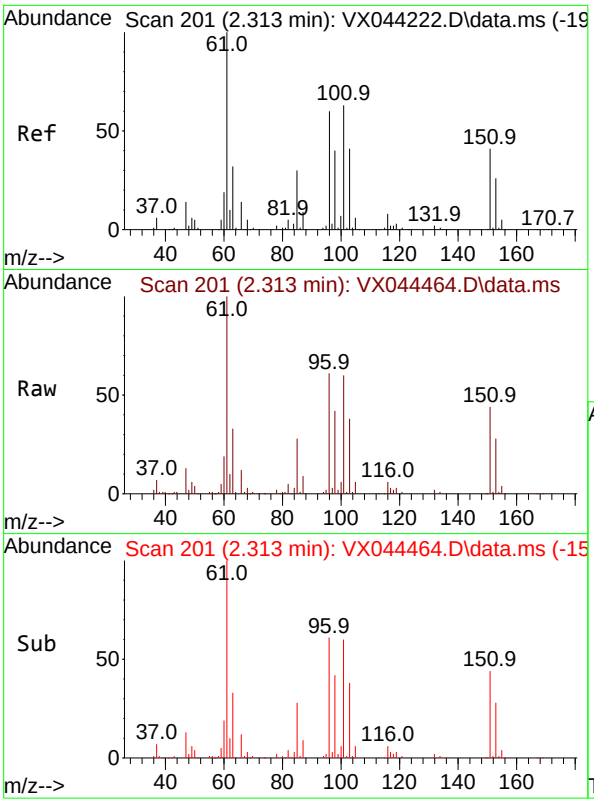


#8
Diethyl Ether
Concen: 42.687 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 74 Resp: 61643

Ion	Ratio	Lower	Upper
74	100		
45	94.9	48.4	145.0



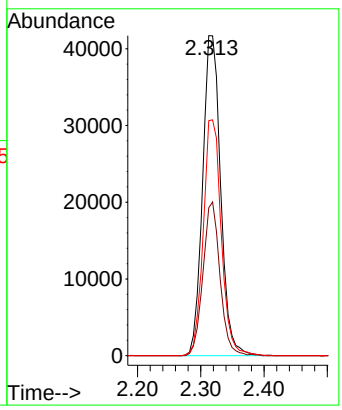


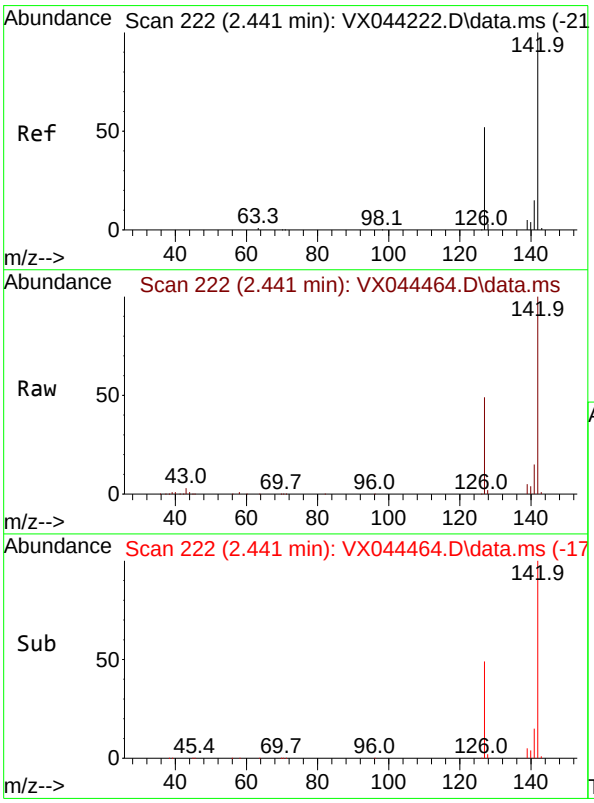
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.311 ug/l
RT: 2.313 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 82704

Ion	Ratio	Lower	Upper
101	100		
85	45.4	38.5	57.7
151	73.6	55.8	83.6

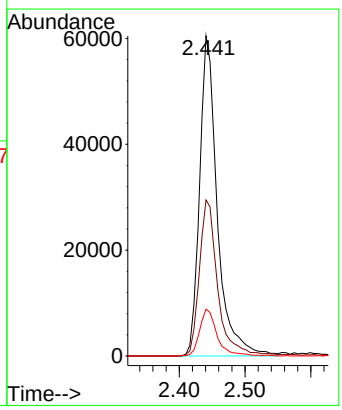


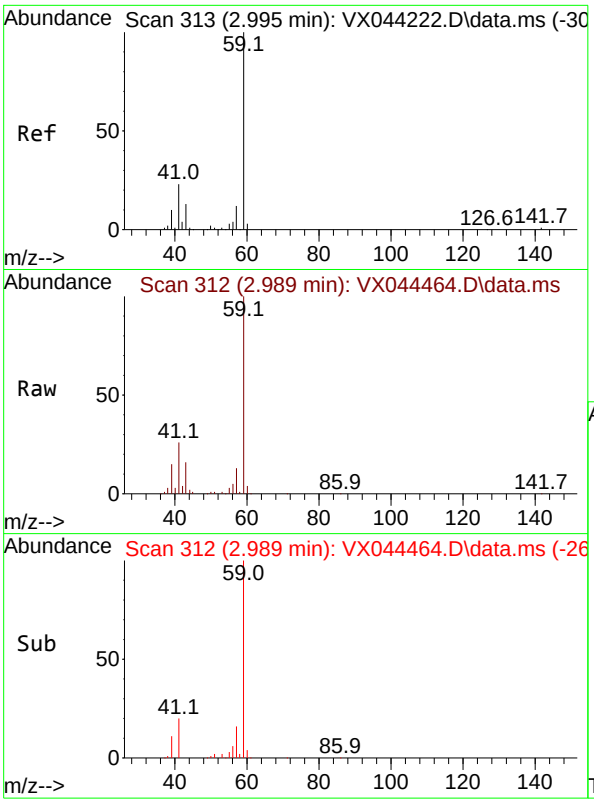


#10
Methyl Iodide
Concen: 50.177 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:142 Resp: 113213

Ion	Ratio	Lower	Upper
142	100		
127	50.5	41.8	62.8
141	14.5	11.5	17.3



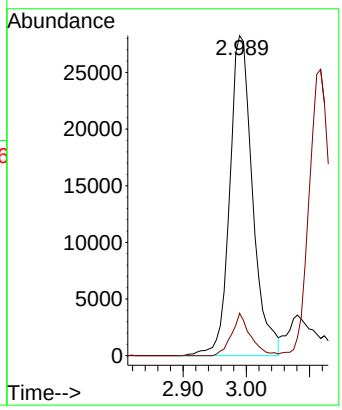


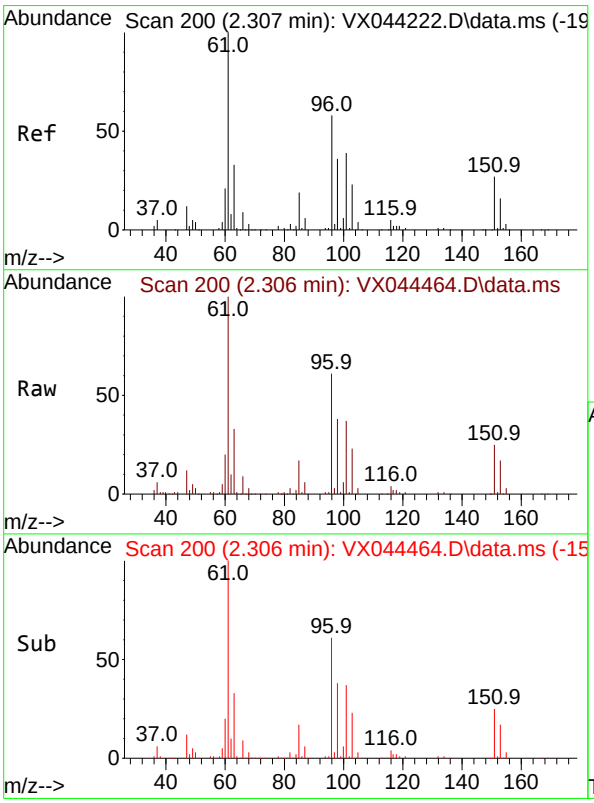
#11
Tert butyl alcohol
Concen: 205.778 ug/l
RT: 2.989 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 71333

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.8	13.2

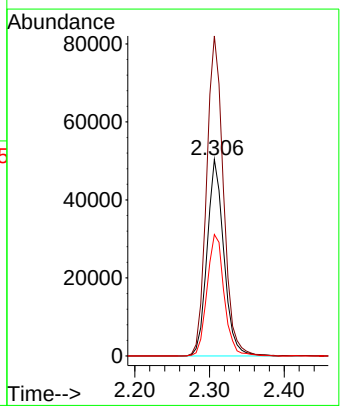


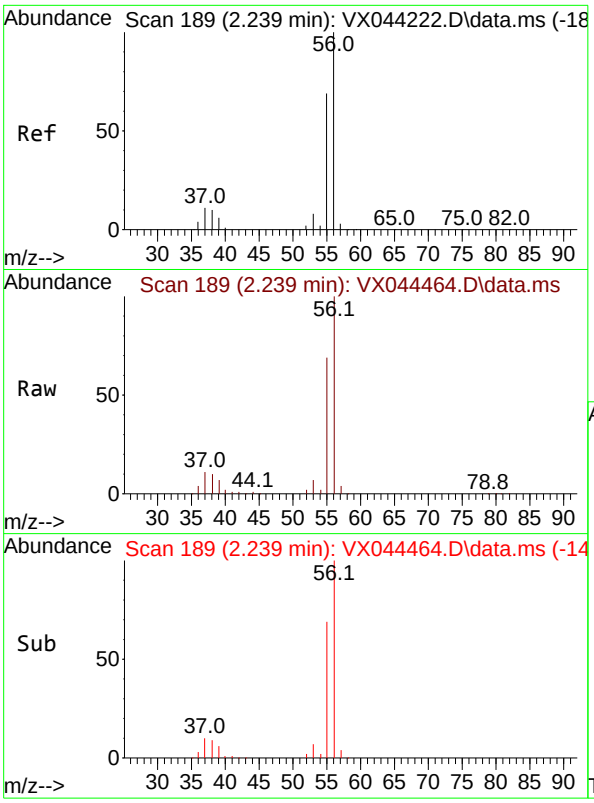


#12
1,1-Dichloroethene
Concen: 50.001 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 96 Resp: 78622

Ion	Ratio	Lower	Upper
96	100		
61	162.8	138.0	207.0
98	61.8	50.0	75.0



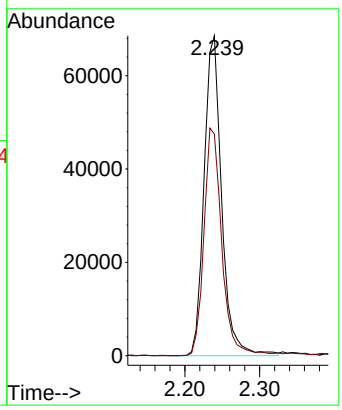


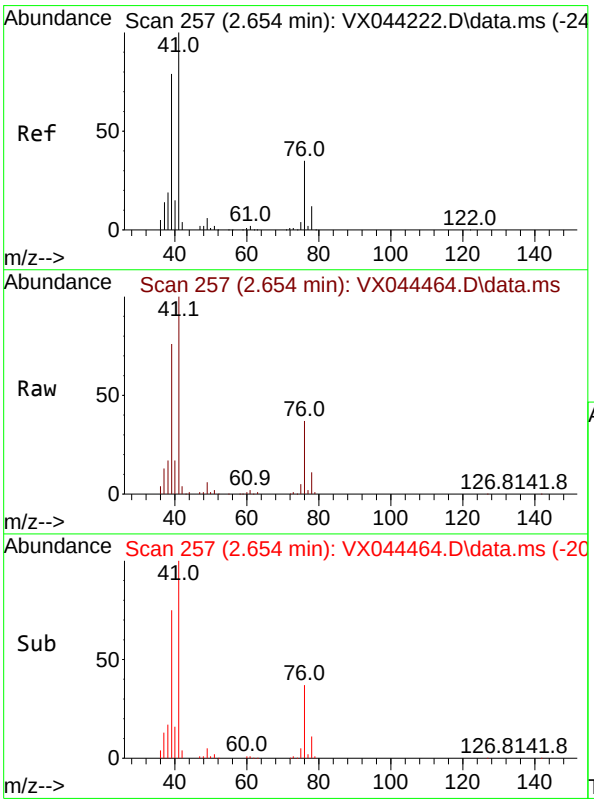
#13
Acrolein
Concen: 222.774 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 111786

Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.6	84.8

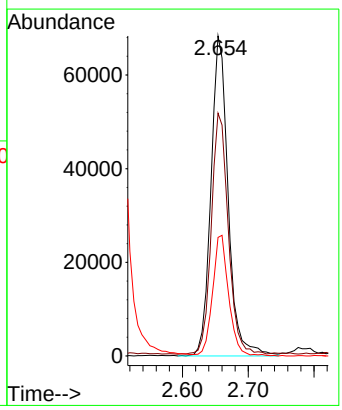


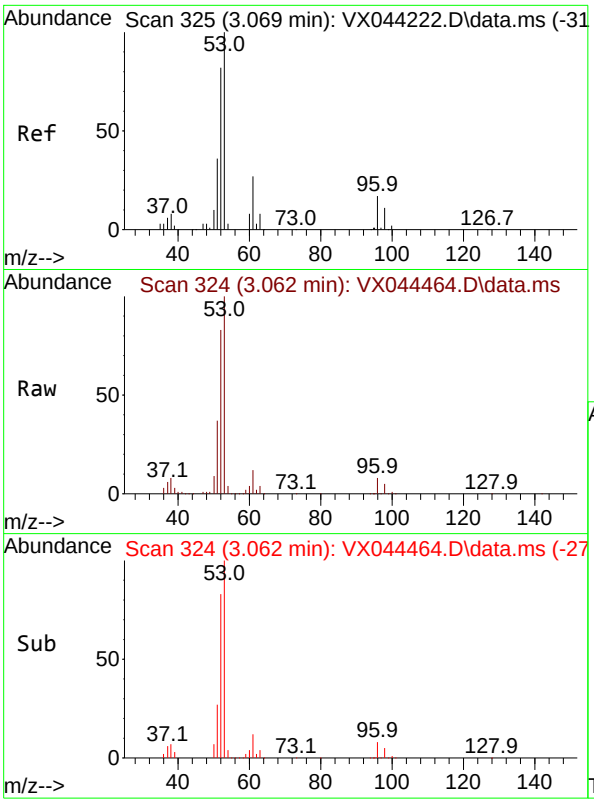


#14
Allyl chloride
Concen: 47.541 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 124514

Ion	Ratio	Lower	Upper
41	100		
39	74.1	61.9	92.9
76	35.4	27.4	41.2



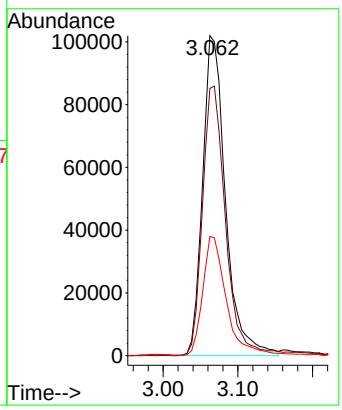


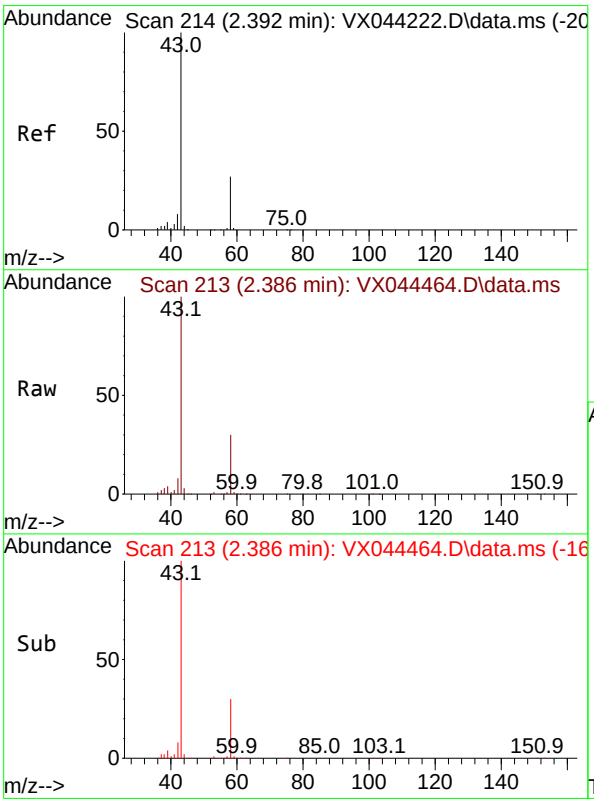
#15
Acrylonitrile
Concen: 226.182 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 217189

Ion	Ratio	Lower	Upper
53	100		
52	86.6	67.4	101.0
51	38.5	30.3	45.5

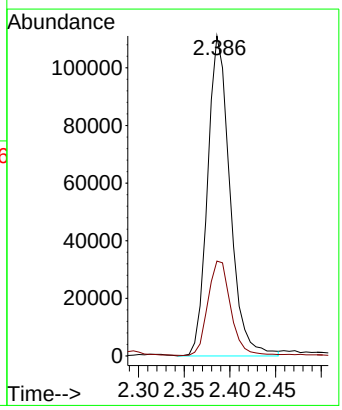


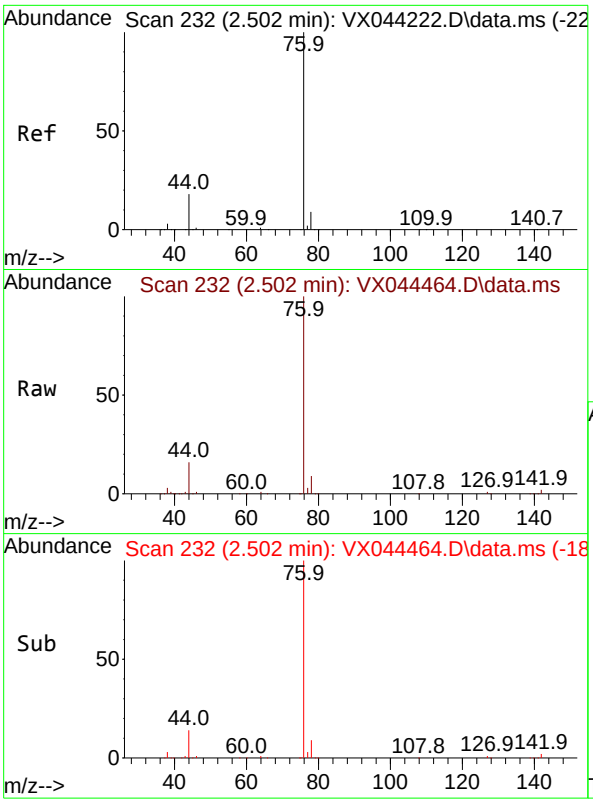


#16
Acetone
Concen: 188.692 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 189212

Ion	Ratio	Lower	Upper
43	100		
58	29.4	21.6	32.4



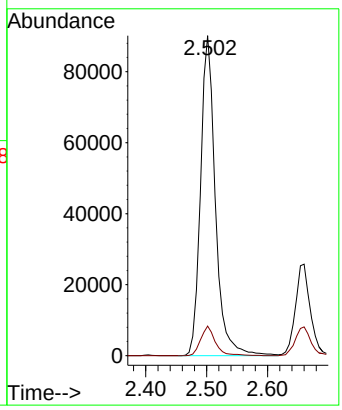


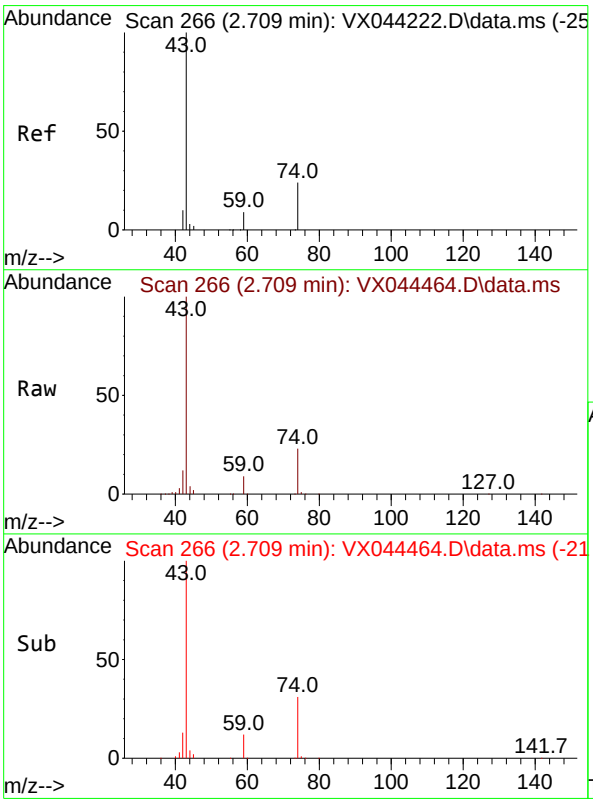
#17
Carbon Disulfide
Concen: 51.130 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 152826

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

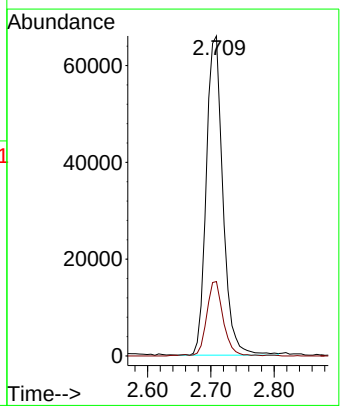


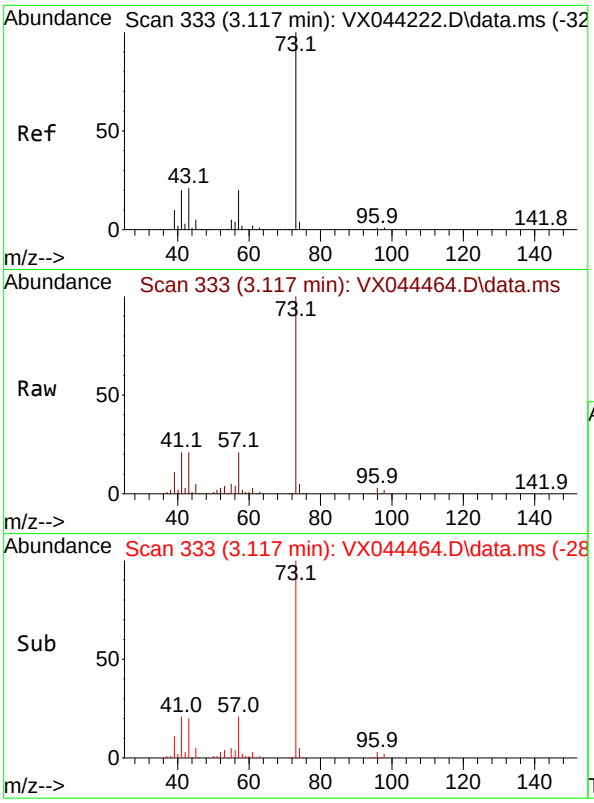


#18
Methyl Acetate
Concen: 46.678 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 120686

Ion	Ratio	Lower	Upper
43	100		
74	23.4	17.7	26.5



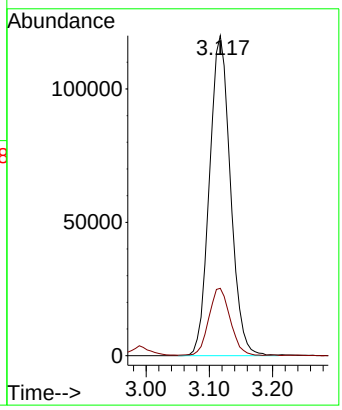


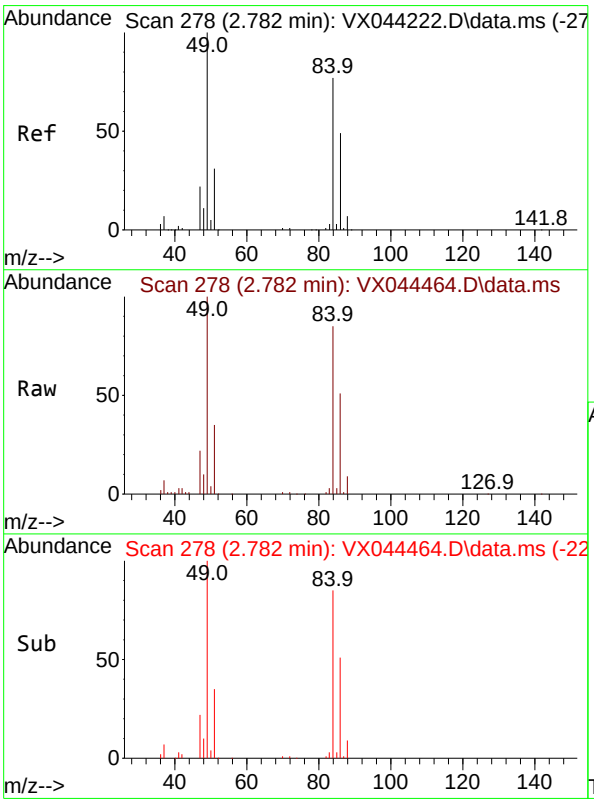
#19
Methyl tert-butyl Ether
Concen: 45.089 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 276668

Ion	Ratio	Lower	Upper
73	100		
57	21.0	16.2	24.4

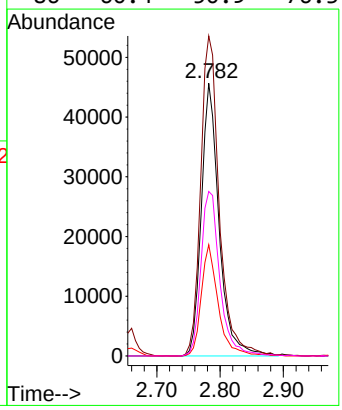


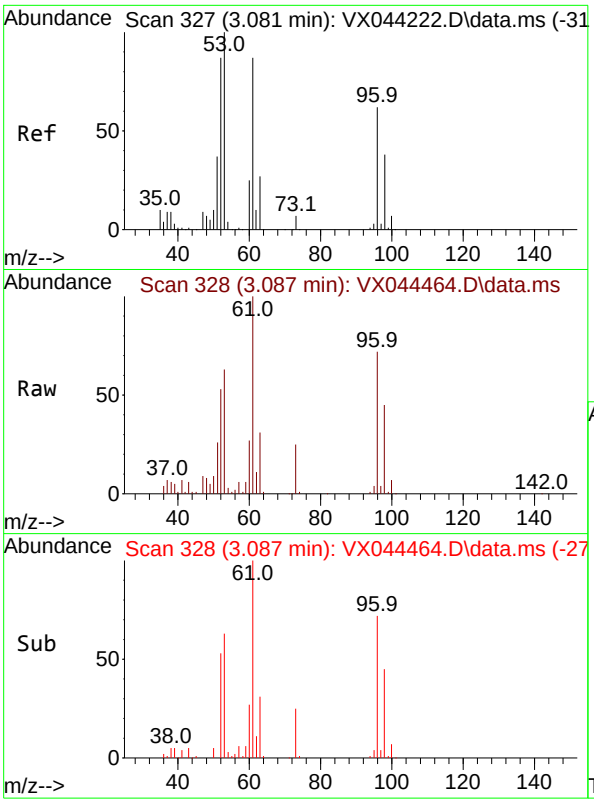


#20
Methylene Chloride
Concen: 47.401 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 84 Resp: 89276

Ion	Ratio	Lower	Upper
84	100		
49	117.4	104.2	156.4
51	40.8	32.2	48.4
86	60.4	50.9	76.3



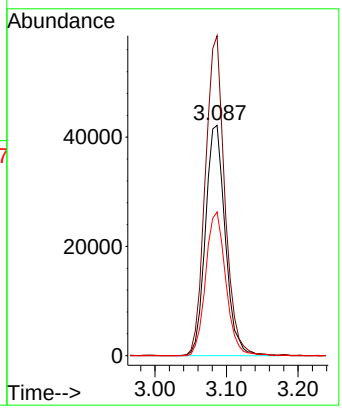


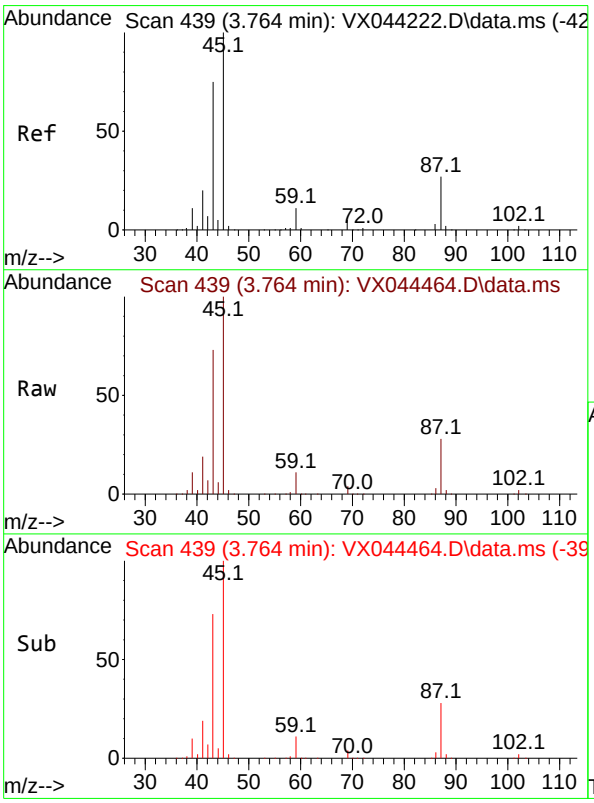
#21
trans-1,2-Dichloroethene
Concen: 48.517 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 81078

Ion	Ratio	Lower	Upper
96	100		
61	138.9	112.0	168.0
98	62.4	48.8	73.2

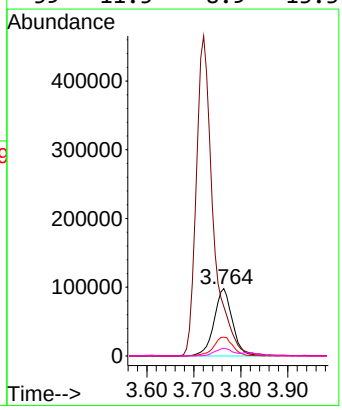


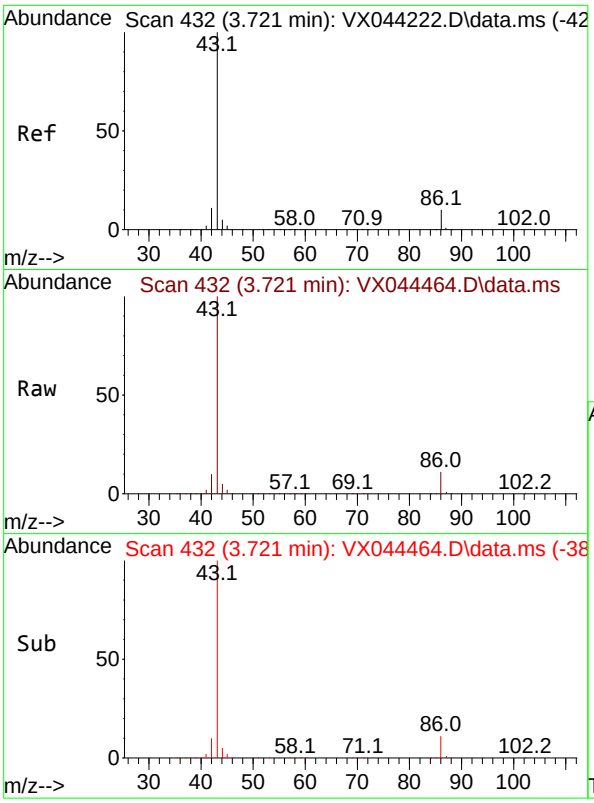


#22
Diisopropyl ether
Concen: 45.018 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 45 Resp: 265503

Ion	Ratio	Lower	Upper
45	100		
43	73.3	60.2	90.2
87	27.7	21.2	31.8
59	11.5	8.9	13.3



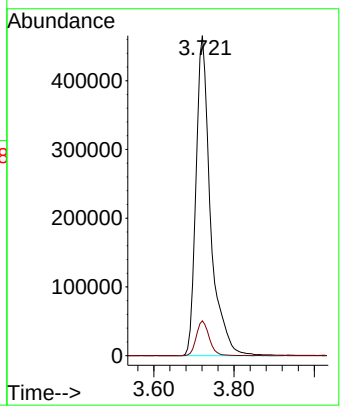


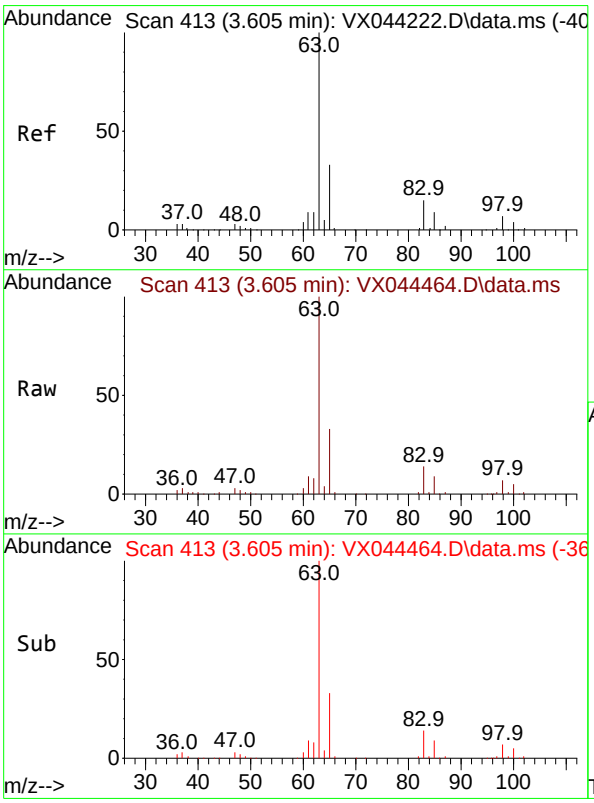
#23
Vinyl Acetate
Concen: 243.510 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1167584

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.2	12.2

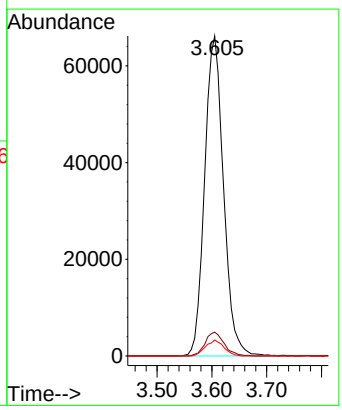


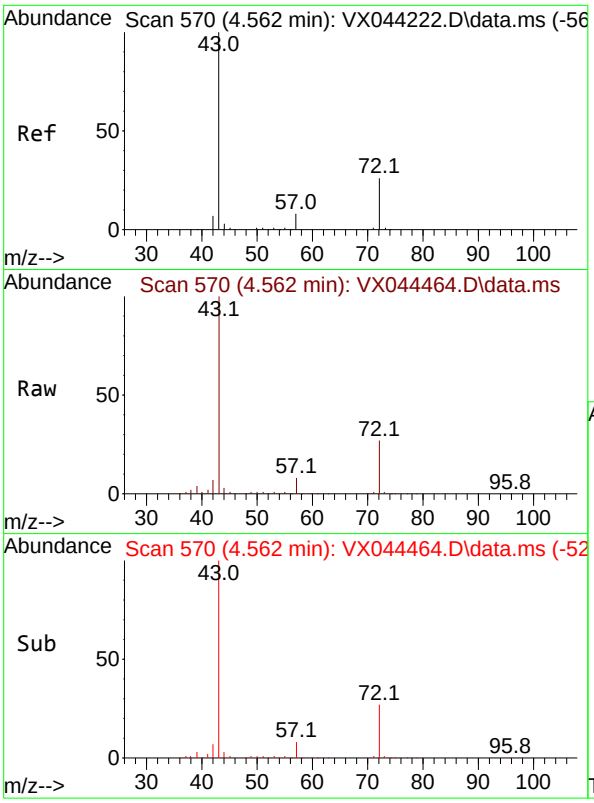


#24
1,1-Dichloroethane
Concen: 48.018 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 157858

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	5.0	2.1	6.3



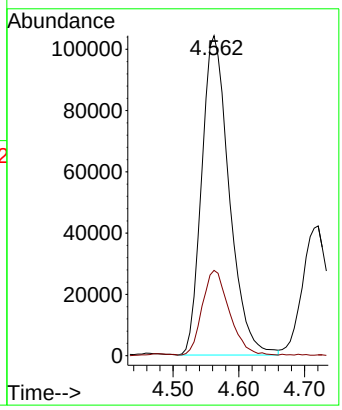


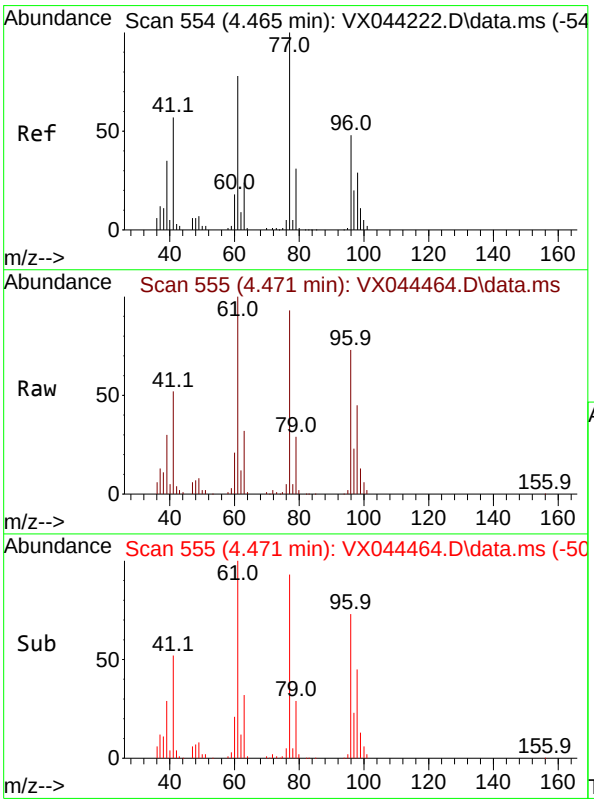
#25
2-Butanone
Concen: 213.237 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 303982

Ion	Ratio	Lower	Upper
43	100		
72	26.5	20.2	30.4

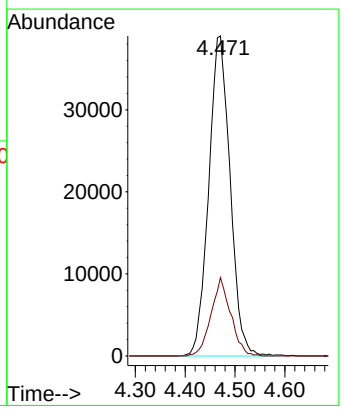


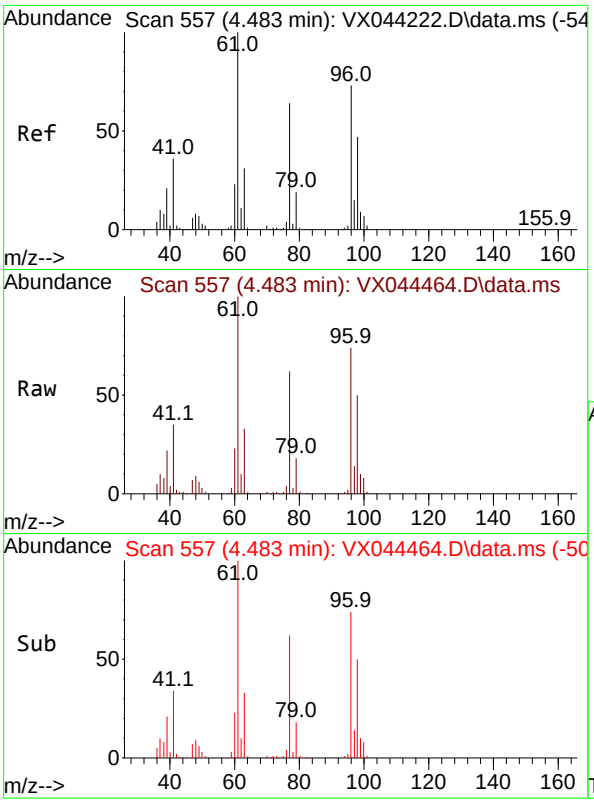


#26
2,2-Dichloropropane
Concen: 43.513 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 77 Resp: 116211

Ion	Ratio	Lower	Upper
77	100		
97	22.5	10.7	32.1



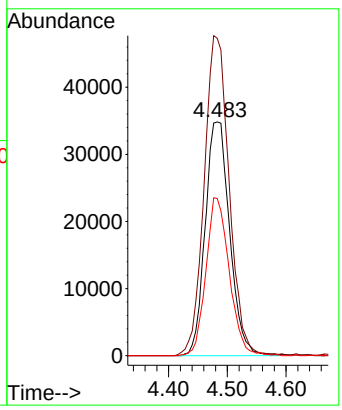


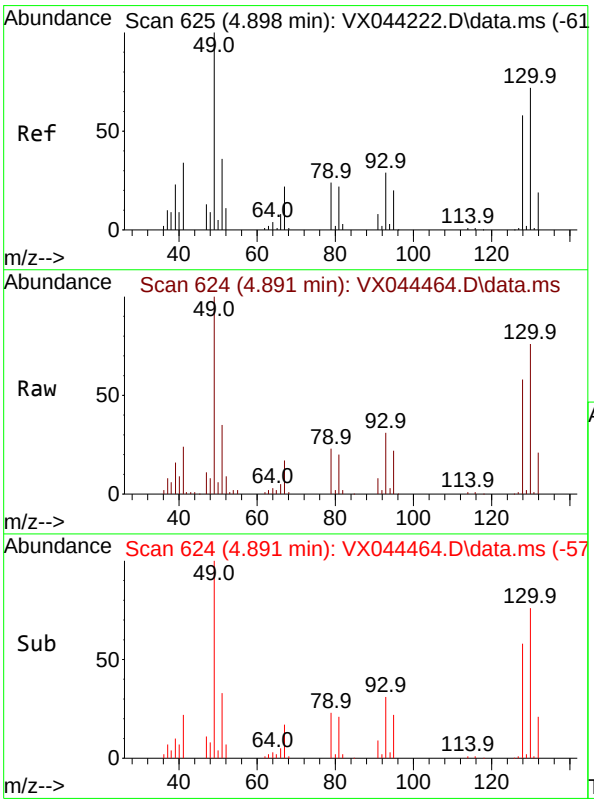
#27
cis-1,2-Dichloroethene
Concen: 47.511 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 100836

Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	299.0
98	64.5	0.0	129.0

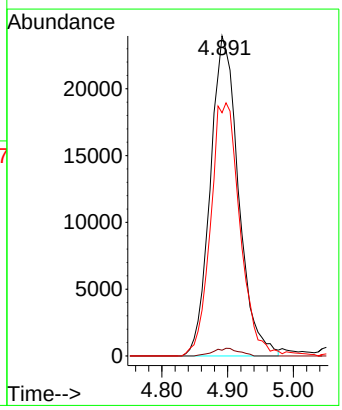


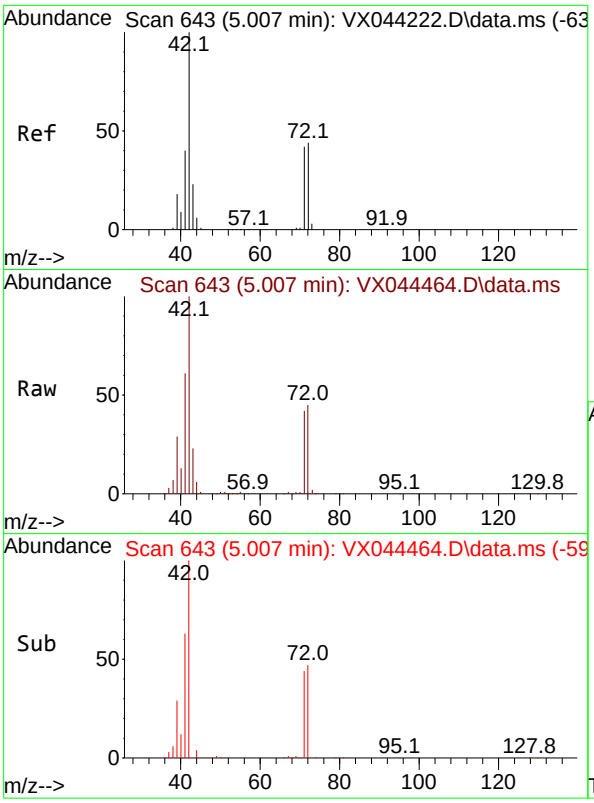


#28
Bromochloromethane
Concen: 44.369 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 49 Resp: 71526

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.1	62.1	93.1



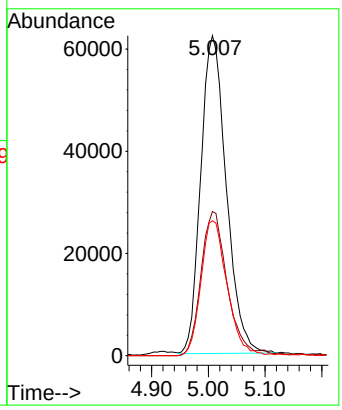


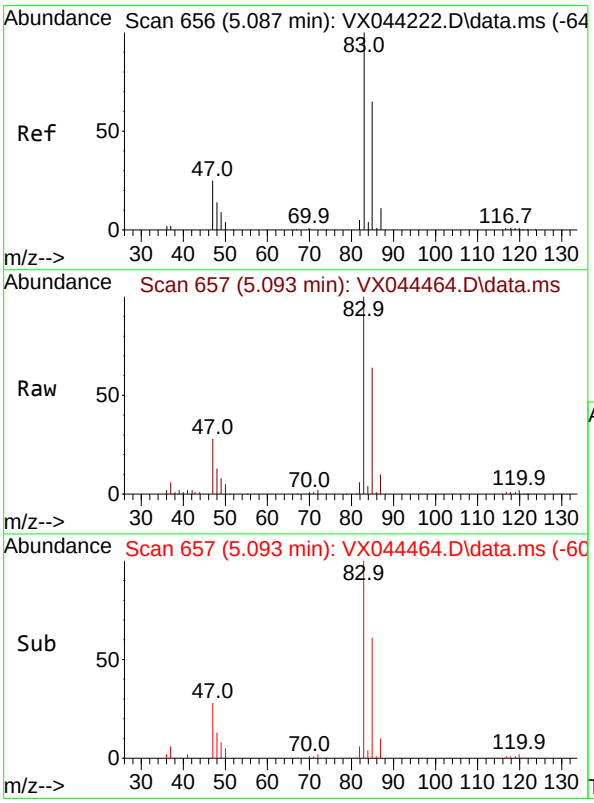
#29
Tetrahydrofuran
Concen: 212.557 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 194494

Ion	Ratio	Lower	Upper
42	100		
72	46.1	37.0	55.6
71	43.4	33.6	50.4

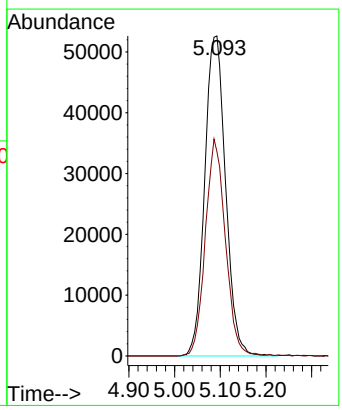


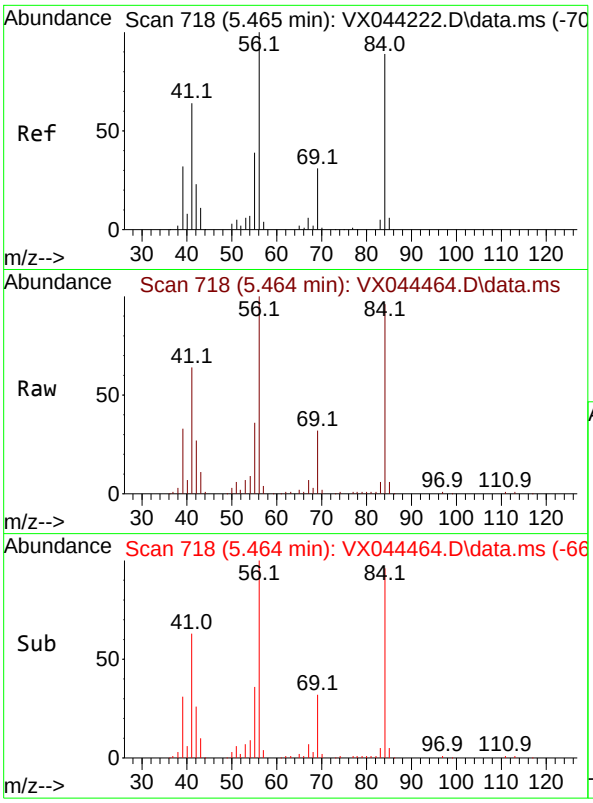


#30
Chloroform
Concen: 45.189 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 83 Resp: 166909

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.6	77.4



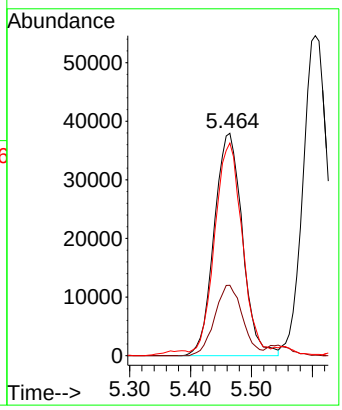


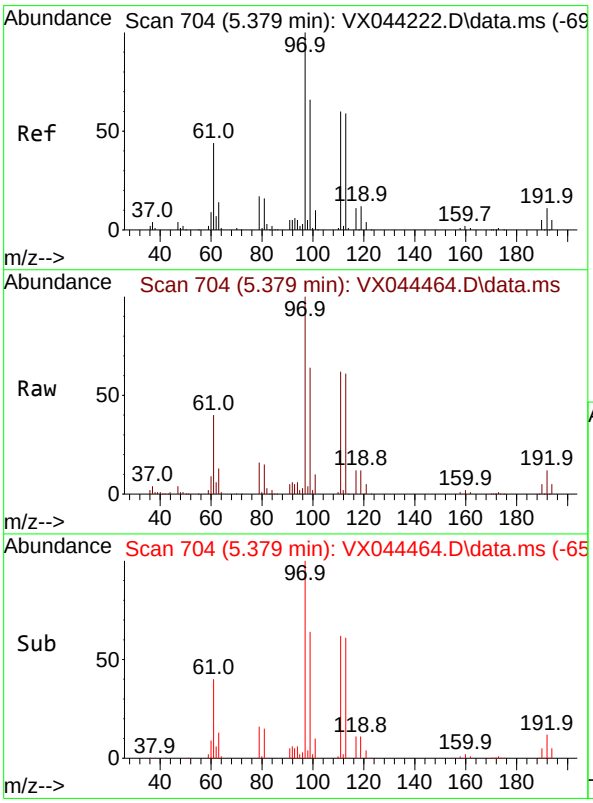
#31
Cyclohexane
Concen: 46.033 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 122203

Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.7	37.1
84	93.5	71.0	106.6

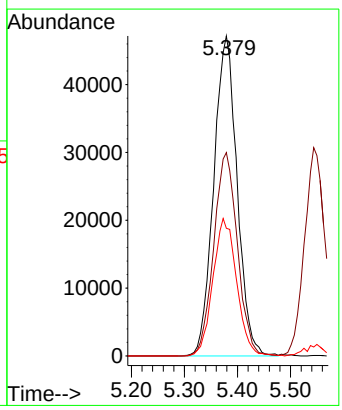


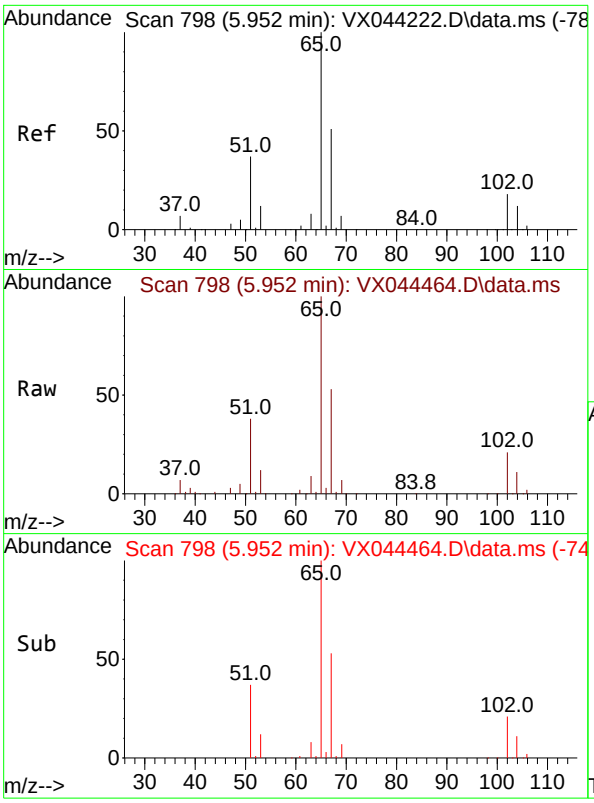


#32
1,1,1-Trichloroethane
Concen: 47.095 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 97 Resp: 144394

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	43.7	35.2	52.8



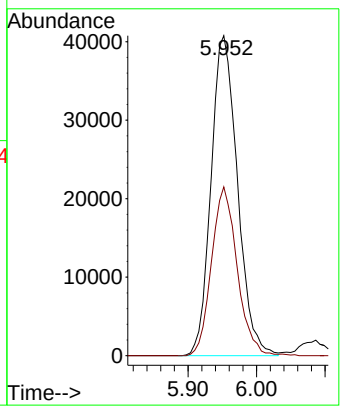


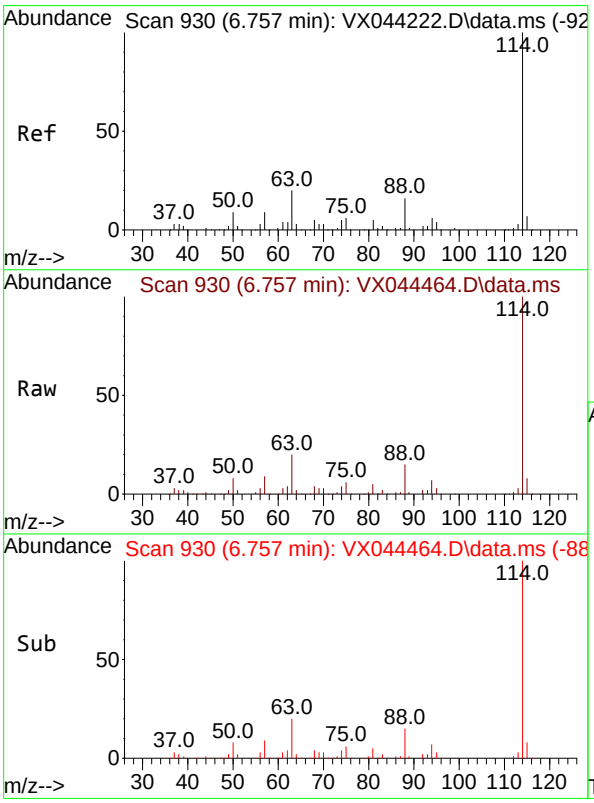
#33
1,2-Dichloroethane-d4
Concen: 44.357 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 109103

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	101.6

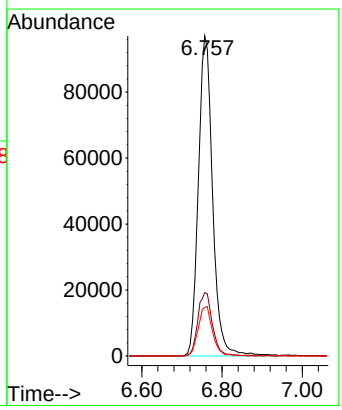


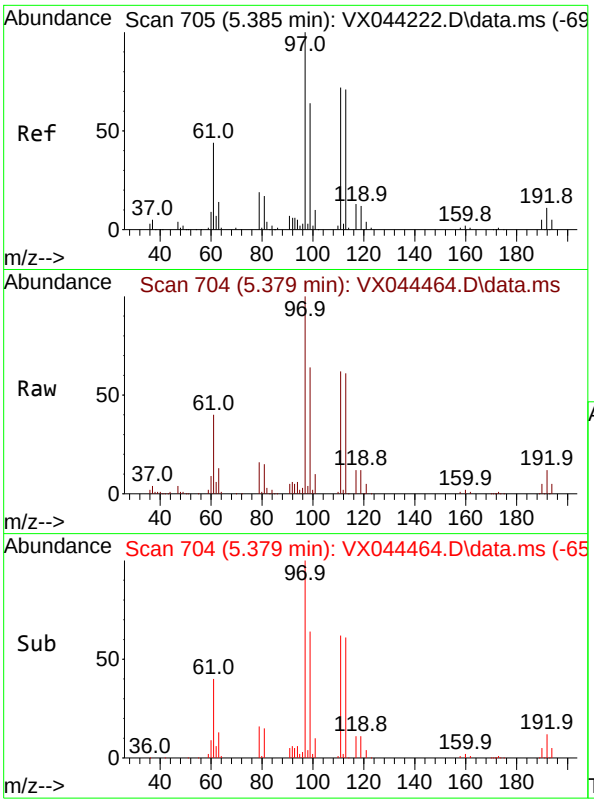


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:114 Resp: 239068

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.6
88	15.2	0.0	31.8



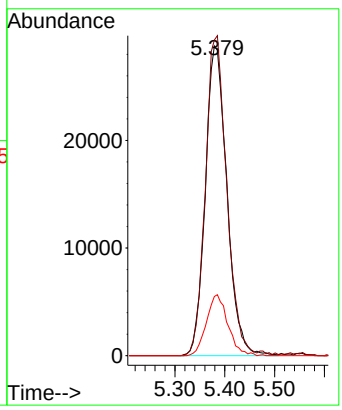


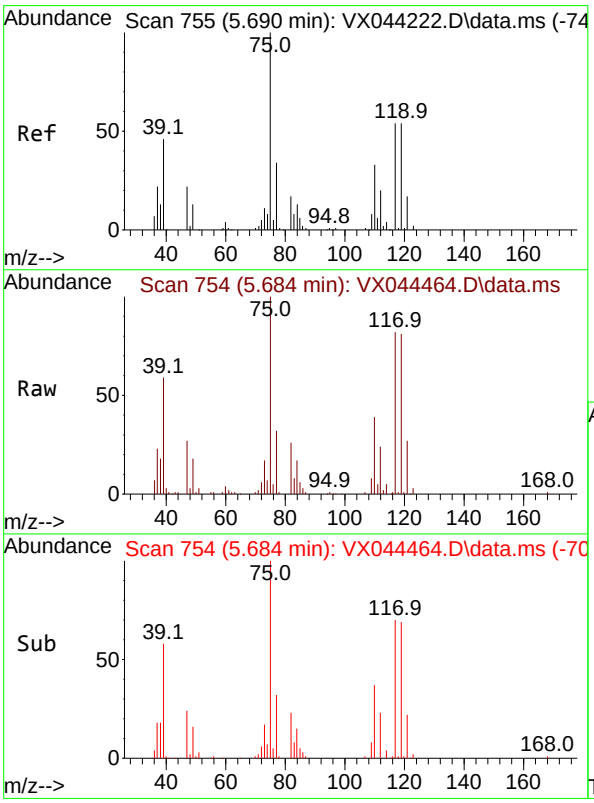
#35
Dibromofluoromethane
Concen: 52.347 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 86675

Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.4	120.6
192	19.6	13.3	19.9

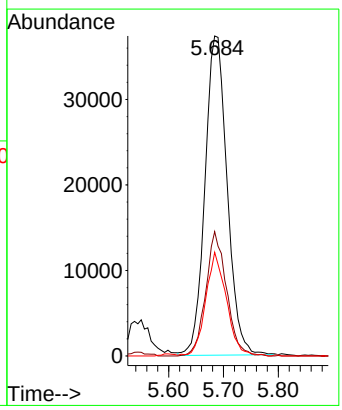


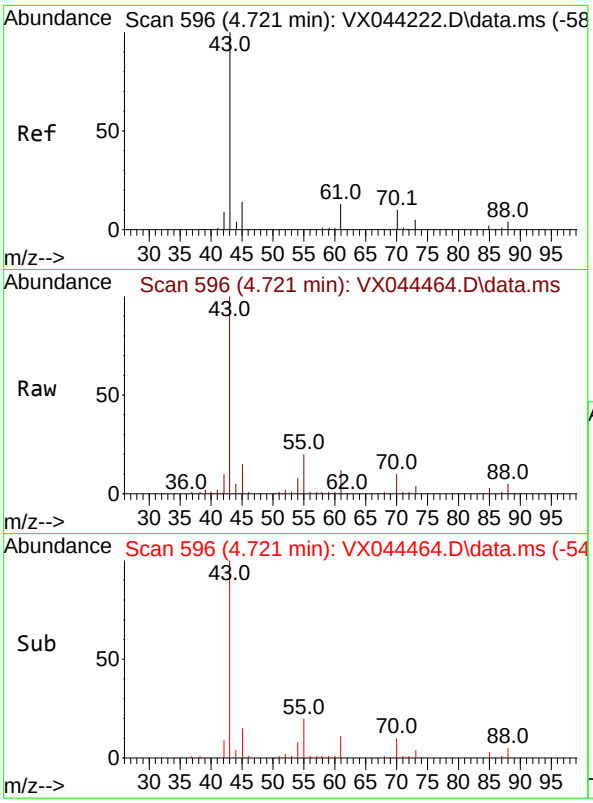


#36
1,1-Dichloropropene
Concen: 49.017 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 104911

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.3	51.7
77	30.4	25.4	38.0



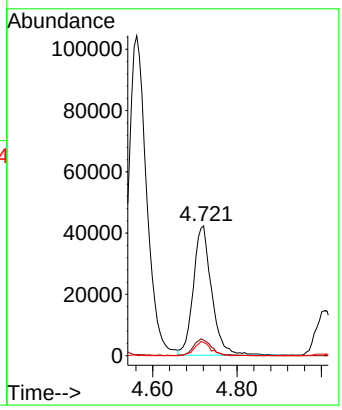


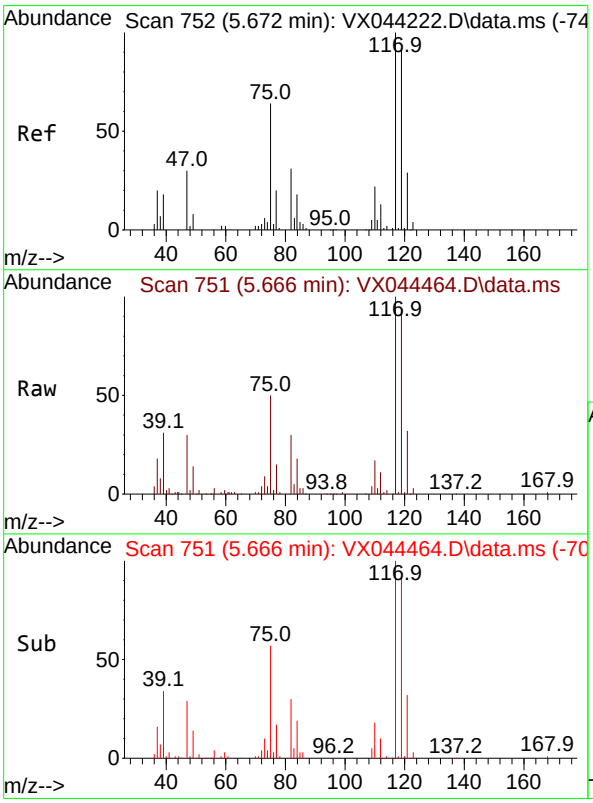
#37
Ethyl Acetate
Concen: 48.180 ug/l
RT: 4.721 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 127468

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.7	7.7	11.5

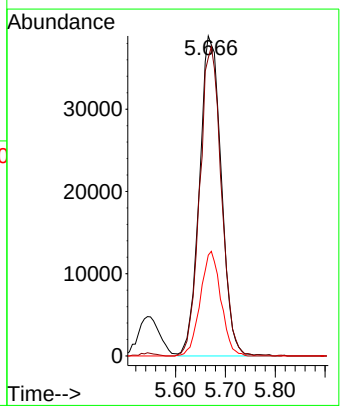


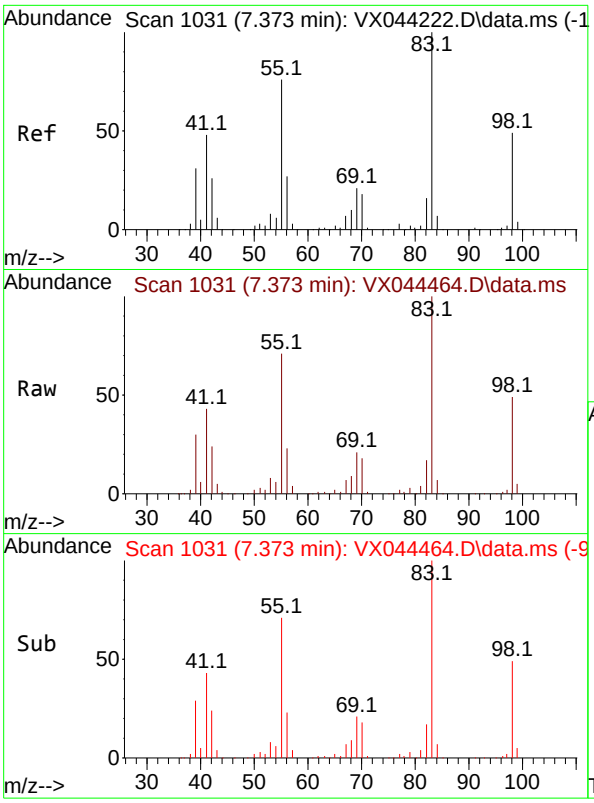


#38
Carbon Tetrachloride
Concen: 51.365 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 118357

Ion	Ratio	Lower	Upper
117	100		
119	93.0	74.2	111.4
121	31.5	23.0	34.6



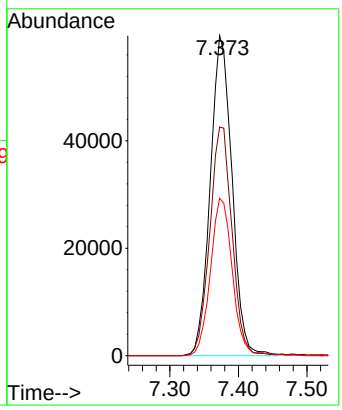


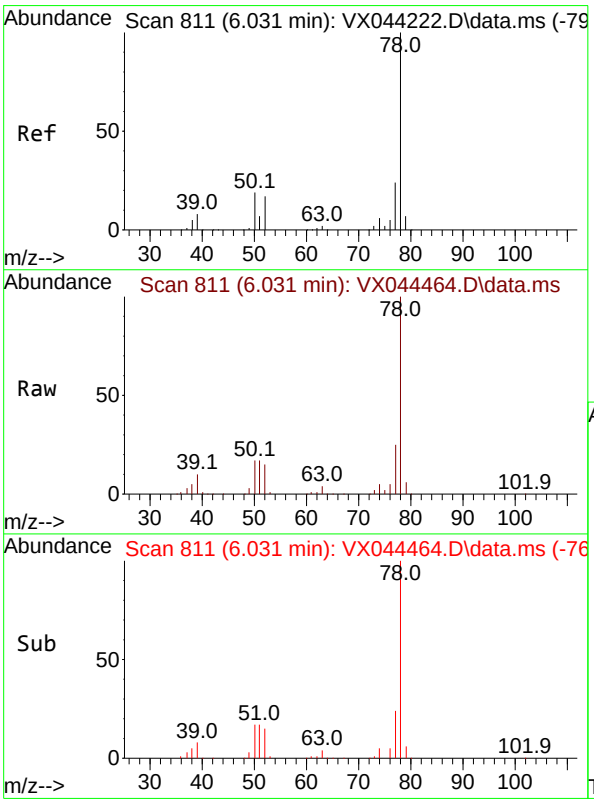
#39
Methylcyclohexane
Concen: 51.370 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 131438

Ion	Ratio	Lower	Upper
83	100		
55	71.4	60.7	91.1
98	49.2	38.9	58.3

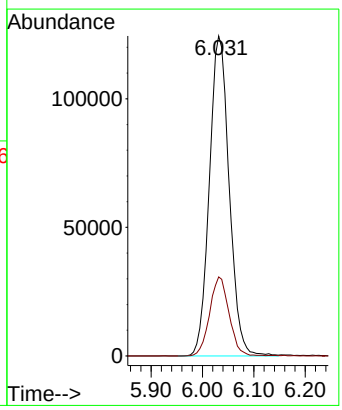


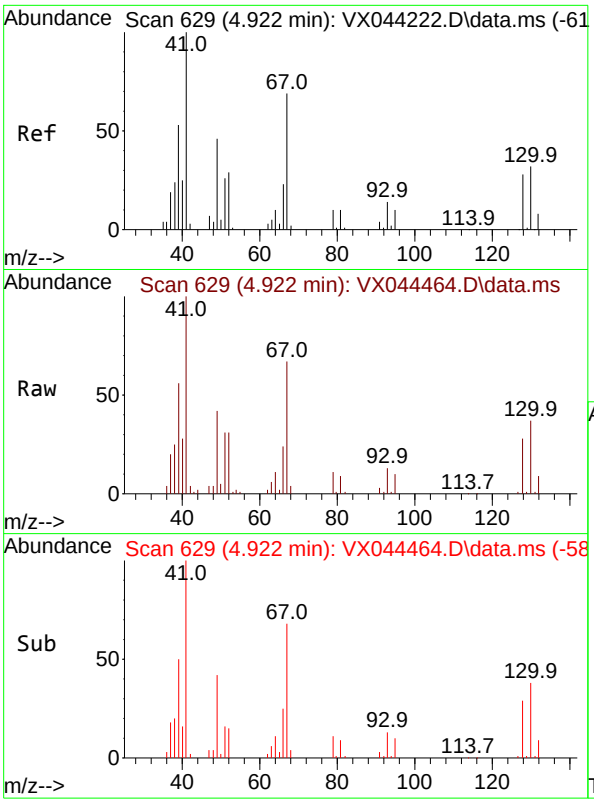


#40
Benzene
Concen: 51.262 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 78 Resp: 333117

Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.3	28.9



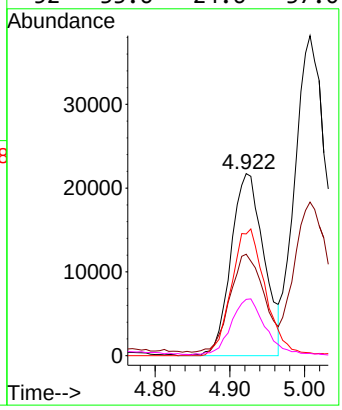


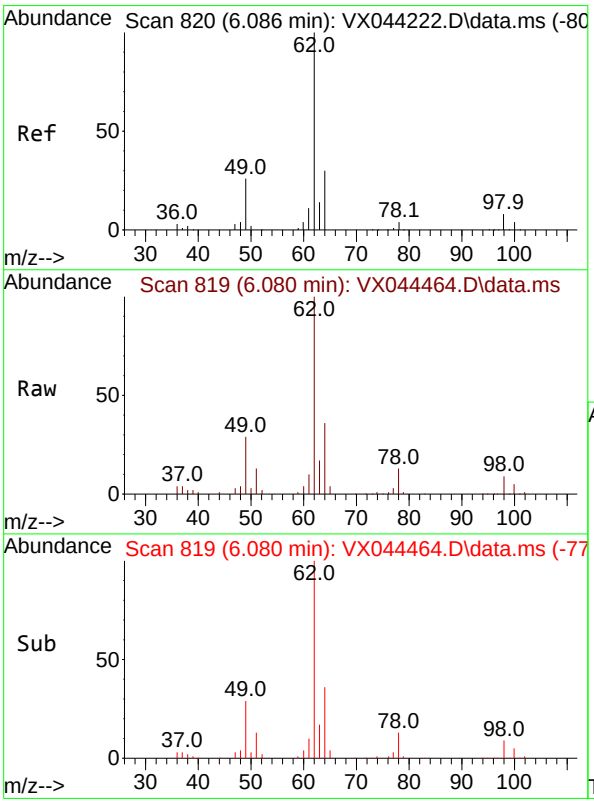
#41
Methacrylonitrile
Concen: 47.401 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 66592

Ion	Ratio	Lower	Upper
41	100		
39	55.8	44.2	66.4
67	72.7	57.2	85.8
52	33.6	24.6	37.0

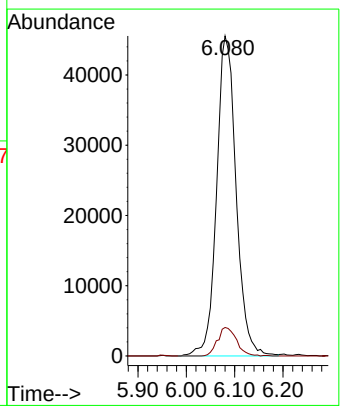


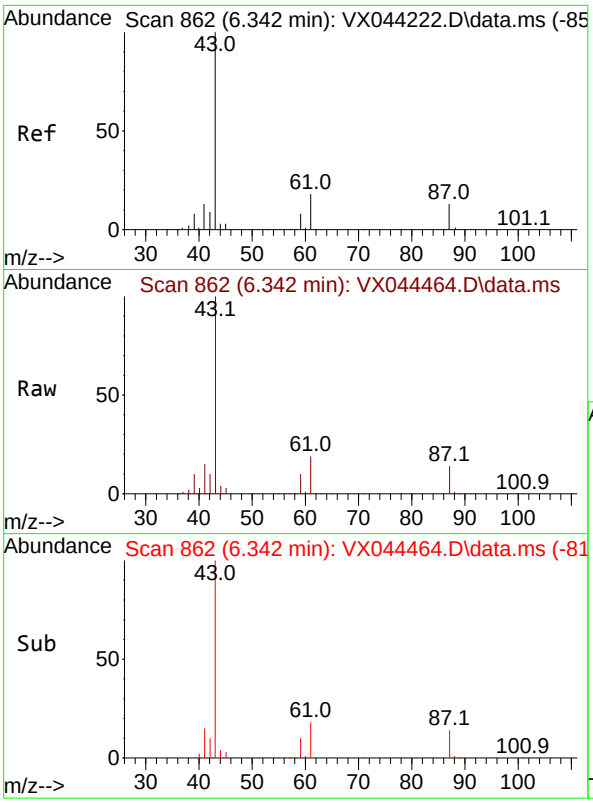


#42
1,2-Dichloroethane
Concen: 47.680 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 62 Resp: 127634

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8



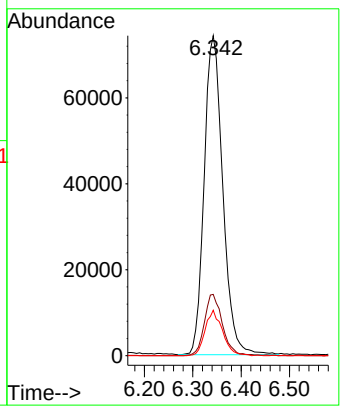


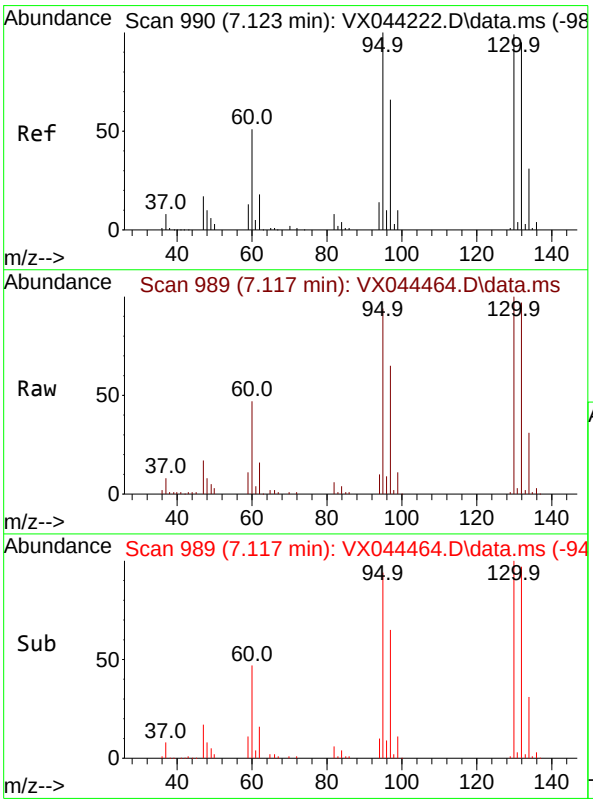
#43
Isopropyl Acetate
Concen: 48.047 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 198680

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.2	21.2
87	13.3	10.2	15.2

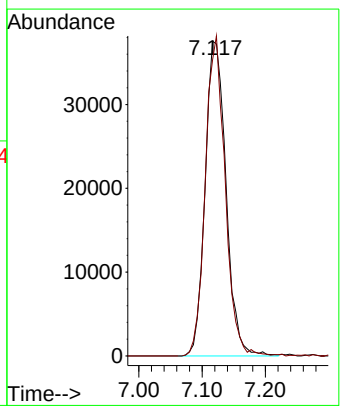


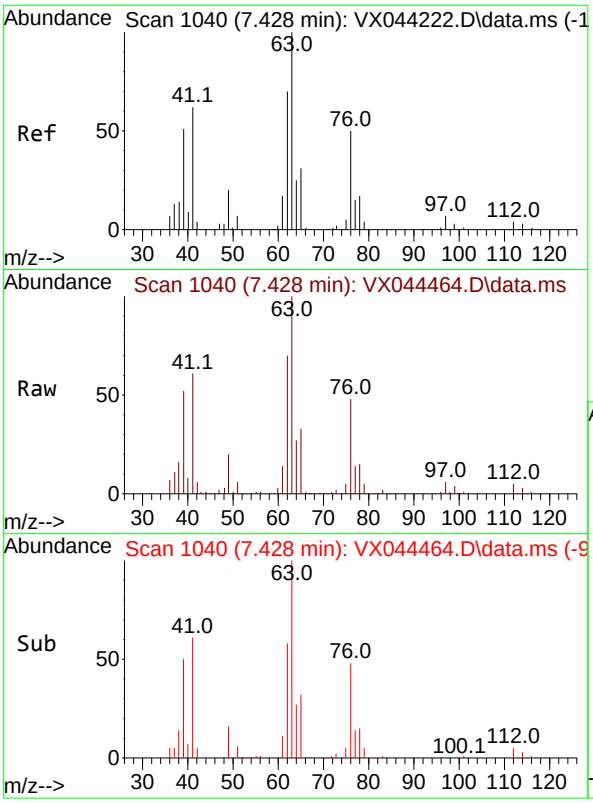


#44
Trichloroethene
Concen: 53.083 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:130 Resp: 86021

Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	201.4



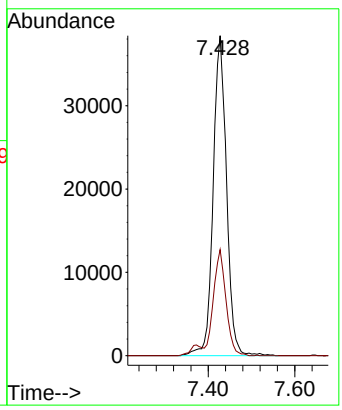


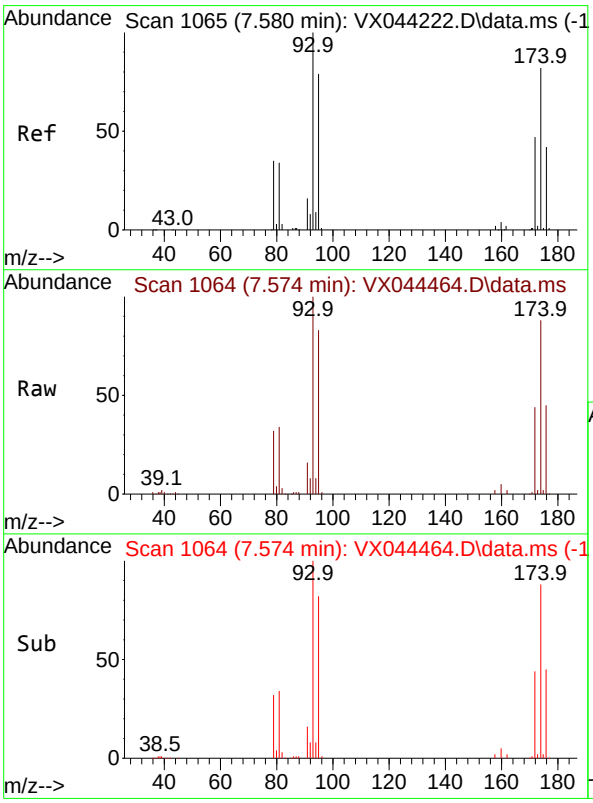
#45
1,2-Dichloropropane
Concen: 49.622 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 82383

Ion	Ratio	Lower	Upper
63	100		
65	33.1	24.6	37.0

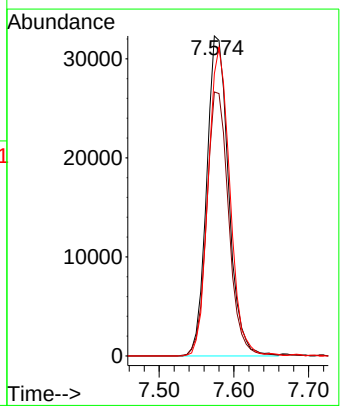


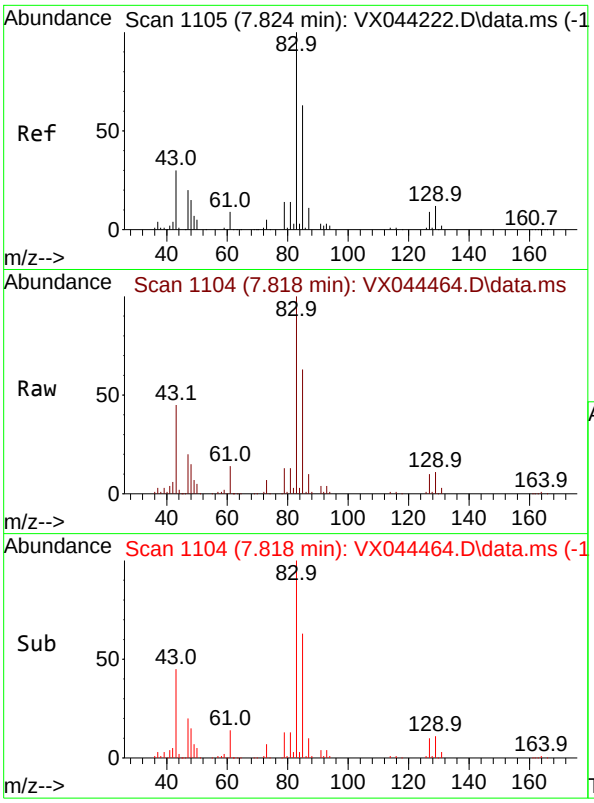


#46
Dibromomethane
Concen: 51.184 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 93 Resp: 65924

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.4	98.2
174	95.5	67.9	101.9



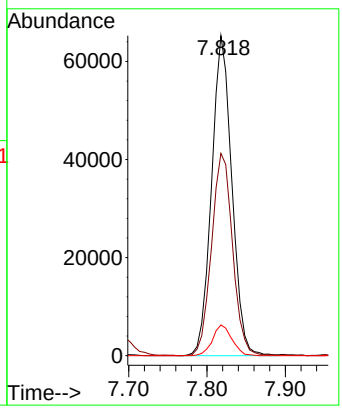


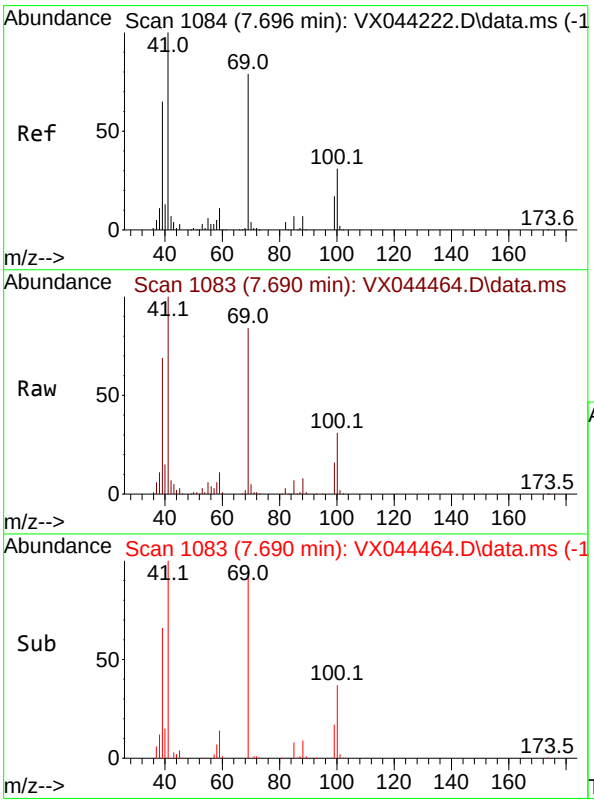
#47
Bromodichloromethane
Concen: 52.723 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 117278

Ion	Ratio	Lower	Upper
83	100		
85	63.2	50.6	75.8
127	9.6	7.3	10.9

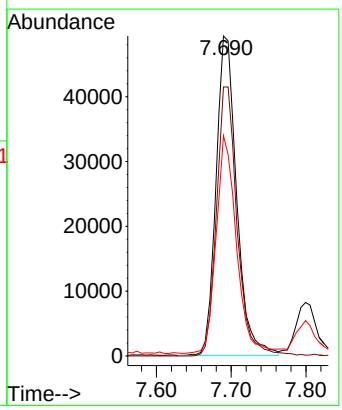


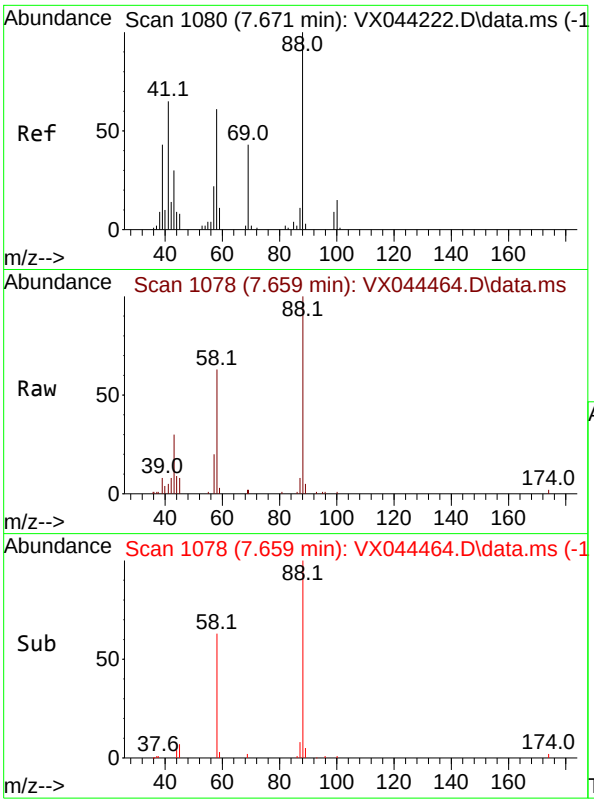


#48
Methyl methacrylate
Concen: 47.115 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 41 Resp: 94575

Ion	Ratio	Lower	Upper
41	100		
69	84.6	62.4	93.6
39	66.9	53.3	79.9



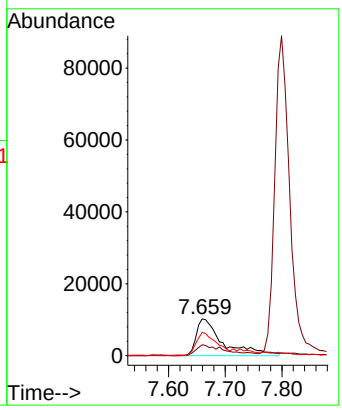


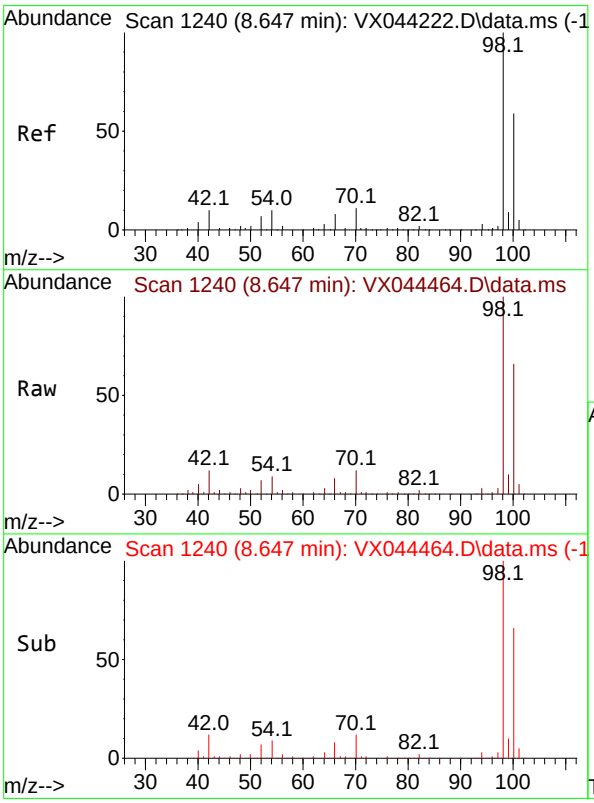
#49
1,4-Dioxane
Concen: 1003.530 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 33398

Ion	Ratio	Lower	Upper
88	100		
43	27.8	27.1	40.7
58	48.6	41.0	61.4

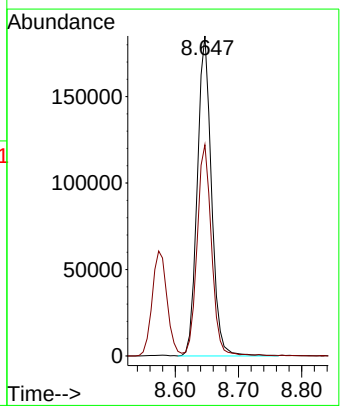


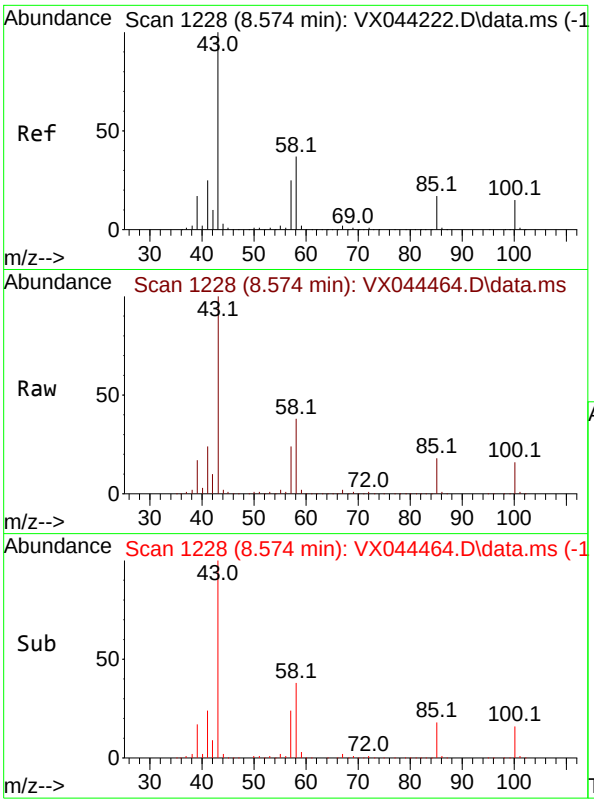


#50
Toluene-d8
Concen: 51.923 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 98 Resp: 290046

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.5	77.3



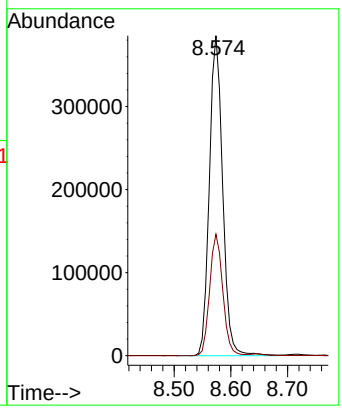


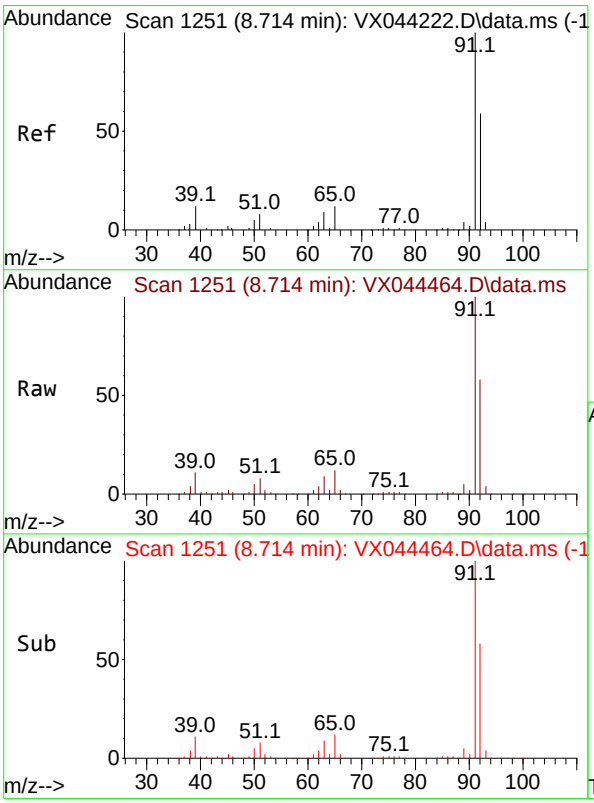
#51
4-Methyl-2-Pentanone
Concen: 235.413 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 625919

Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.4	44.0

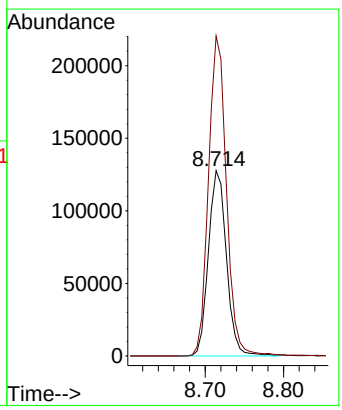


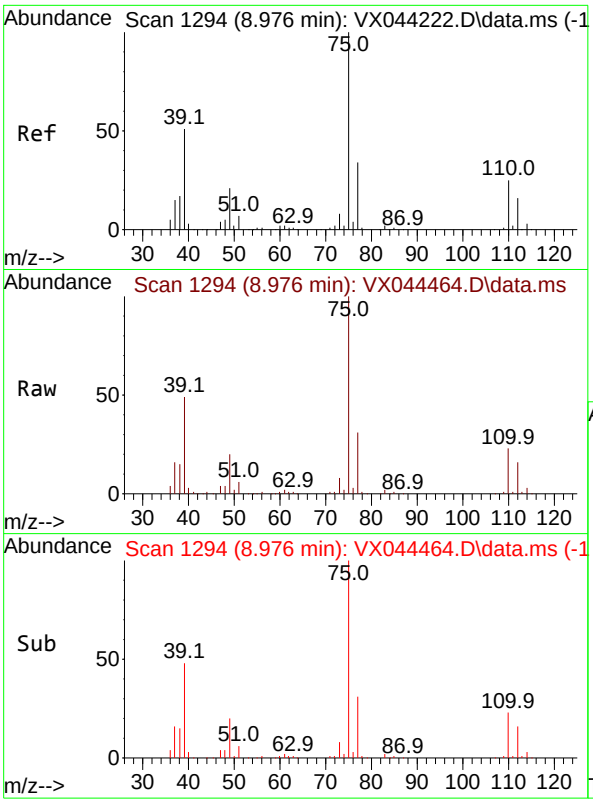


#52
Toluene
Concen: 50.071 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 92 Resp: 204328

Ion	Ratio	Lower	Upper
92	100		
91	171.3	137.0	205.6



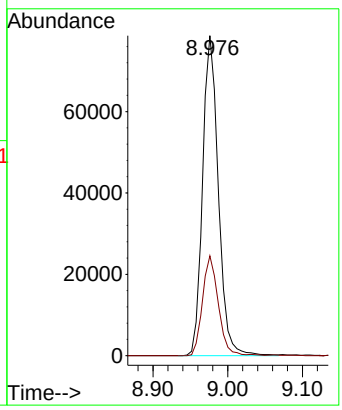


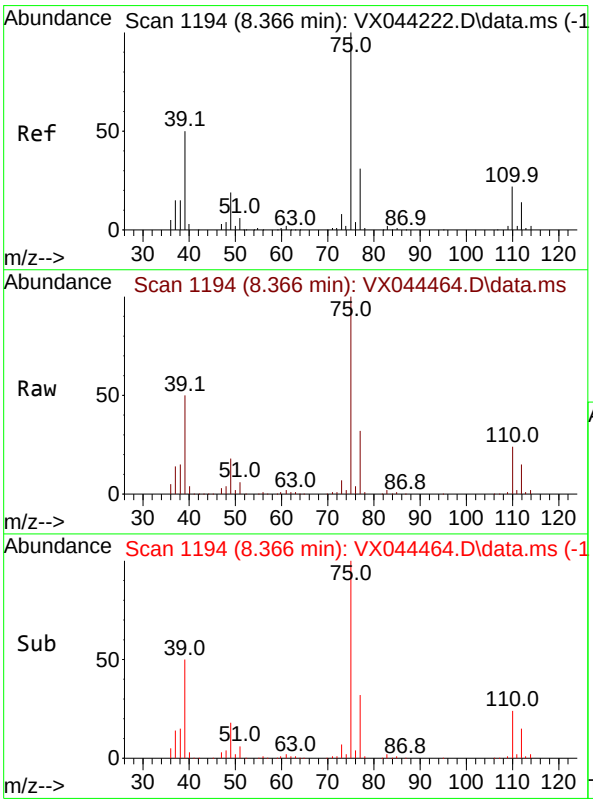
#53
t-1,3-Dichloropropene
Concen: 48.388 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 115268

Ion	Ratio	Lower	Upper
75	100		
77	31.2	27.2	40.8

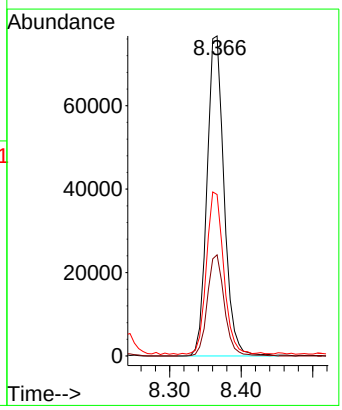


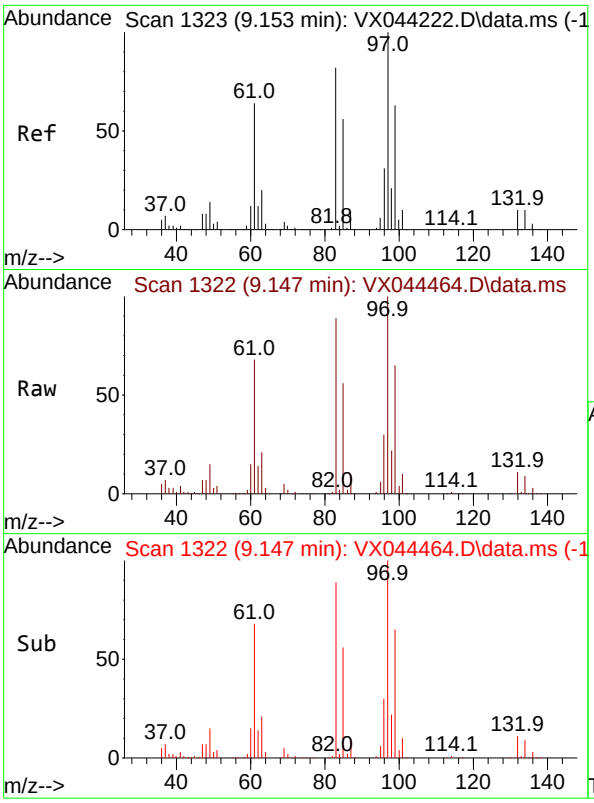


#54
cis-1,3-Dichloropropene
Concen: 52.437 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 127004

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.7	37.1
39	50.0	40.3	60.5



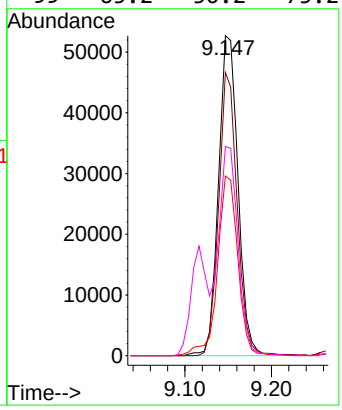


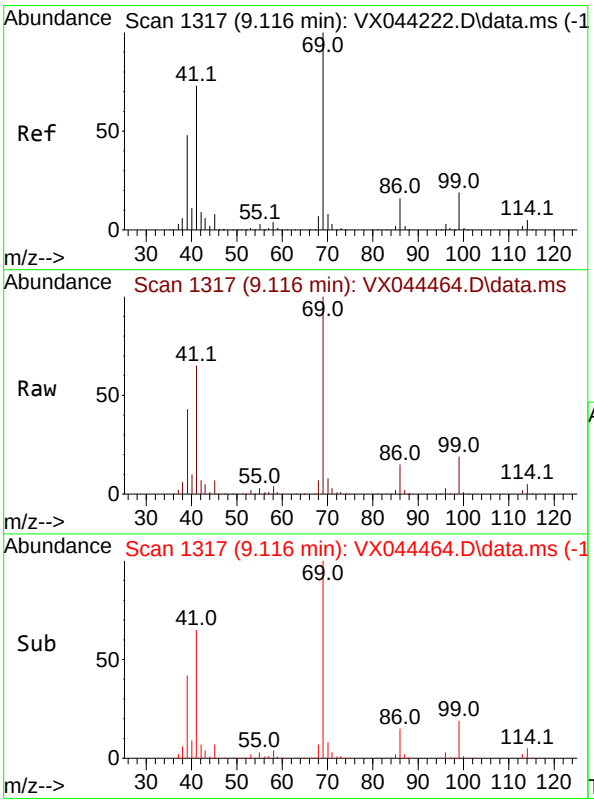
#55
1,1,2-Trichloroethane
Concen: 50.814 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 82378

Ion	Ratio	Lower	Upper
97	100		
83	88.5	65.3	97.9
85	56.0	44.6	67.0
99	65.2	50.2	75.2

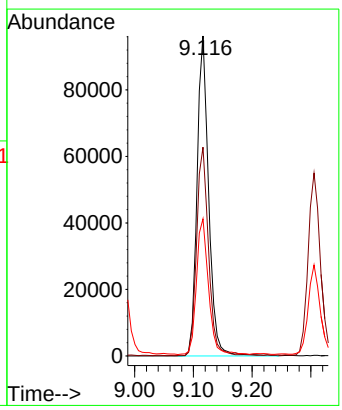


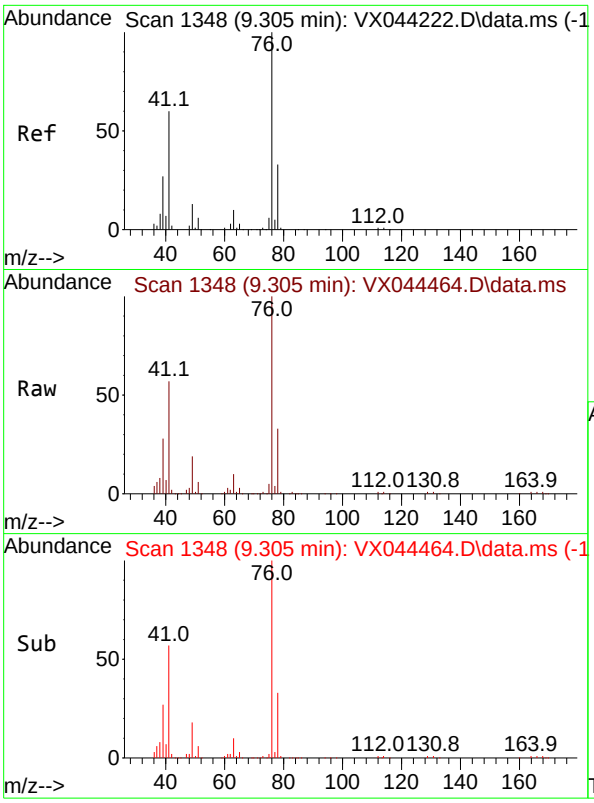


#56
Ethyl methacrylate
Concen: 51.516 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 69 Resp: 131845

Ion	Ratio	Lower	Upper
69	100		
41	66.5	56.6	85.0
39	43.7	37.4	56.0



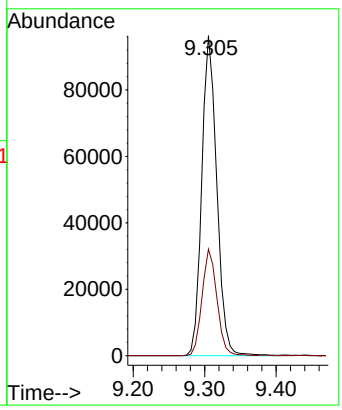


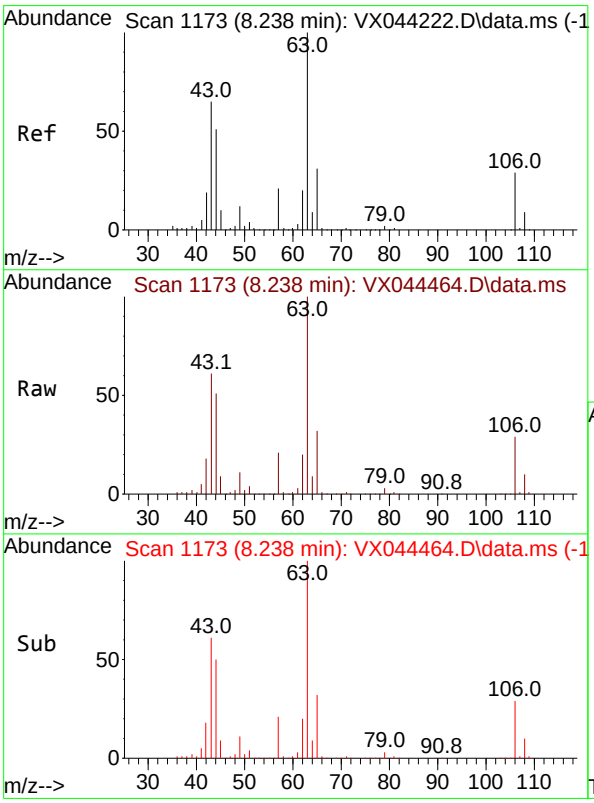
#57
1,3-Dichloropropane
Concen: 49.799 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 140522

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.5	39.7

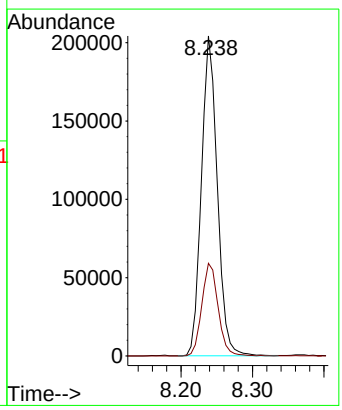


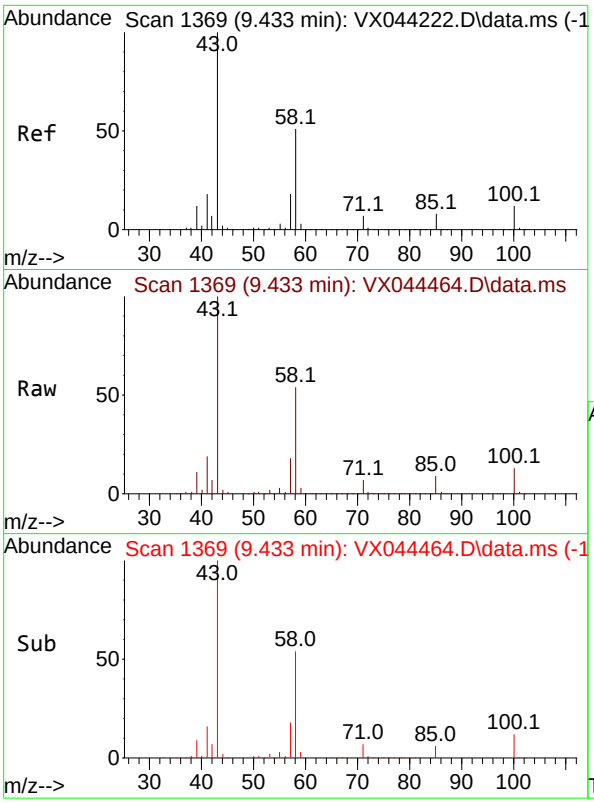


#58
2-Chloroethyl Vinyl ether
Concen: 243.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 63 Resp: 314516

Ion	Ratio	Lower	Upper
63	100		
106	29.8	22.8	34.2



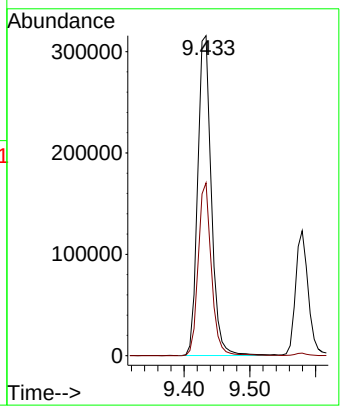


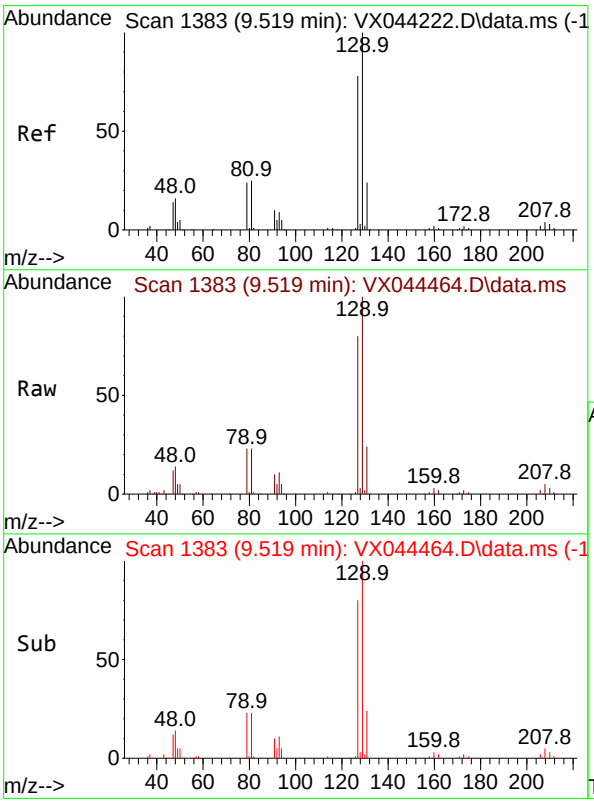
#59
2-Hexanone
Concen: 236.376 ug/l
RT: 9.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 454909

Ion	Ratio	Lower	Upper
43	100		
58	52.3	25.7	77.0

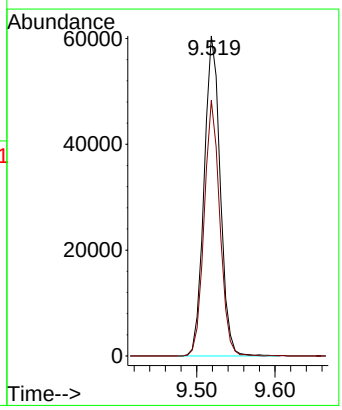


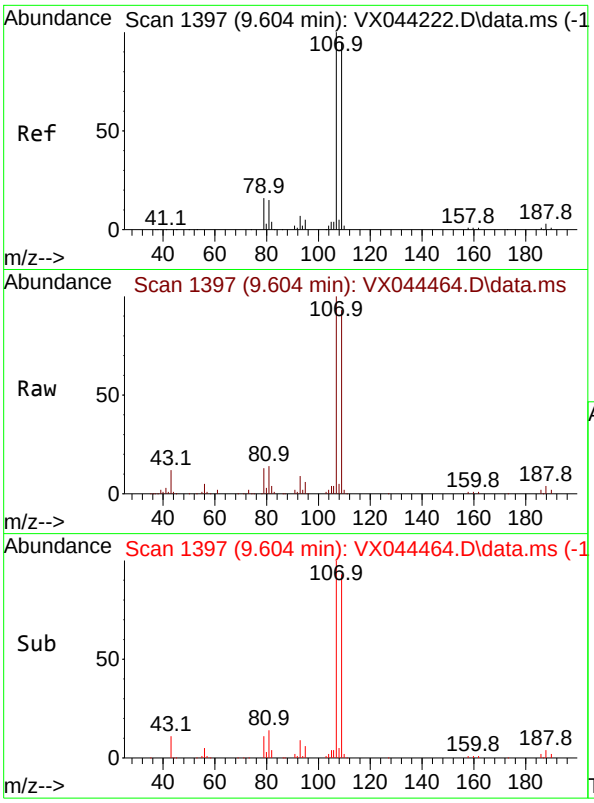


#60
Dibromochloromethane
Concen: 50.206 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:129 Resp: 86219

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.5	115.3



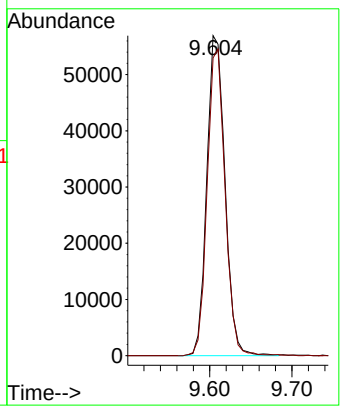


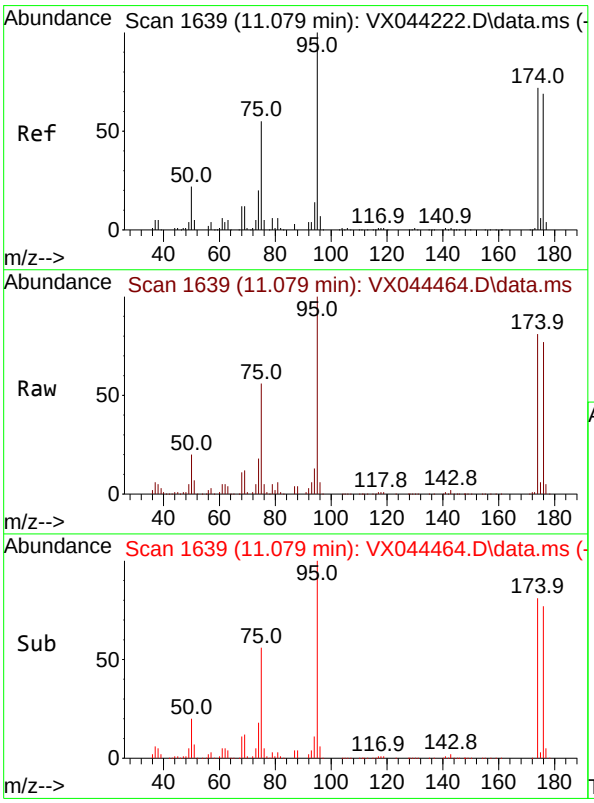
#61
1,2-Dibromoethane
Concen: 53.053 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 87547

Ion	Ratio	Lower	Upper
107	100		
109	94.1	77.0	115.4

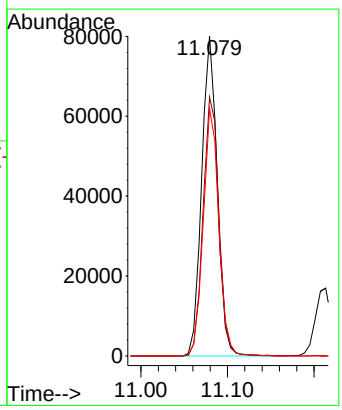


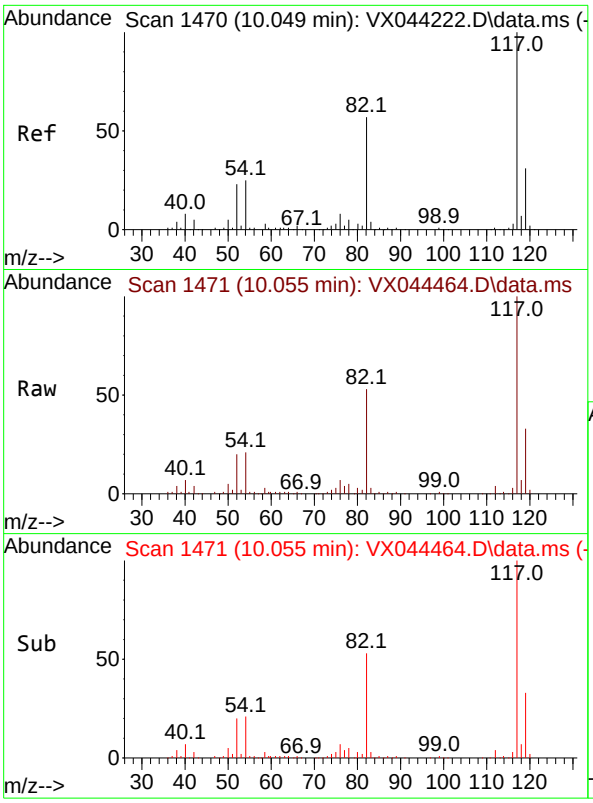


#62
4-Bromofluorobenzene
Concen: 51.161 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 95 Resp: 99862

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	145.8
176	77.6	0.0	137.8



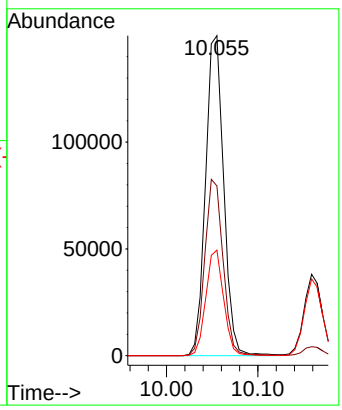


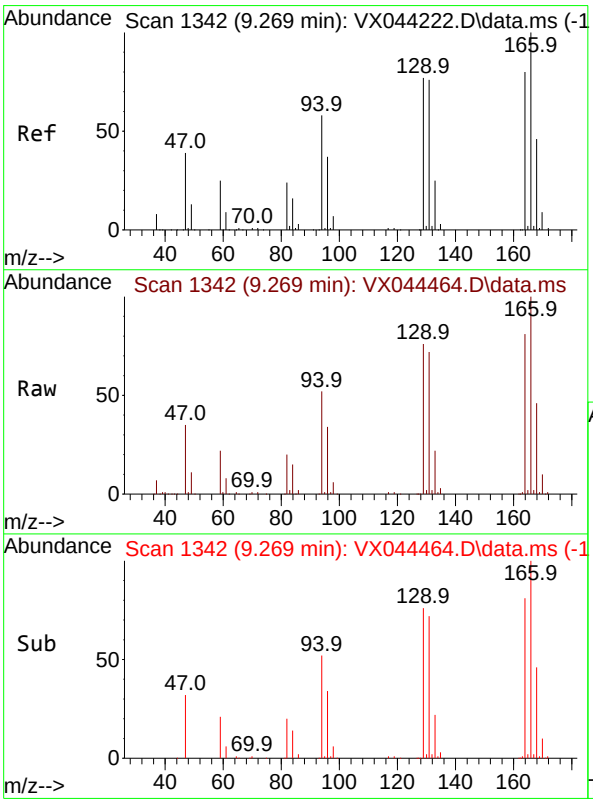
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 206477

Ion	Ratio	Lower	Upper
117	100		
82	53.0	45.8	68.8
119	33.0	25.0	37.4

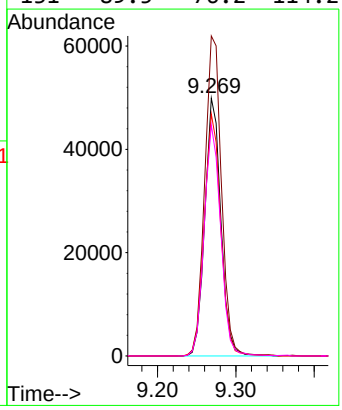


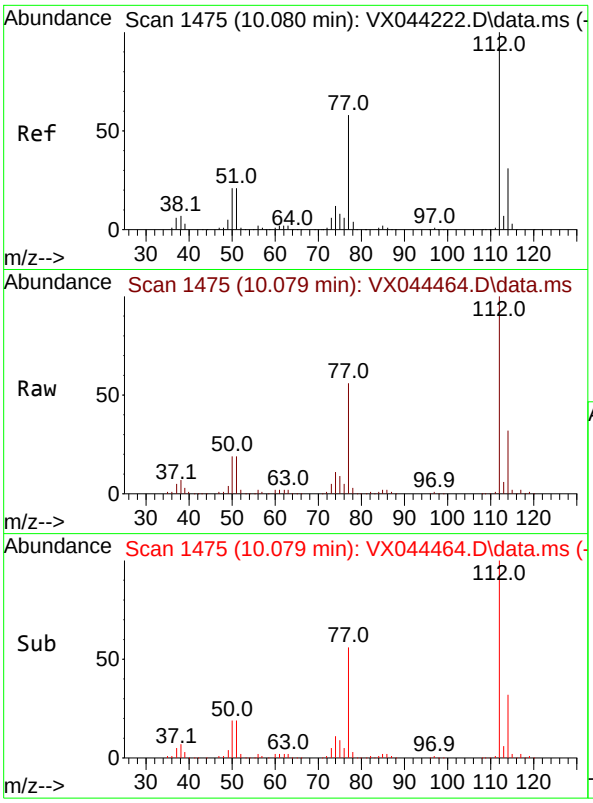


#64
Tetrachloroethene
Concen: 51.727 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:164 Resp: 70888

Ion	Ratio	Lower	Upper
164	100		
166	124.1	100.4	150.6
129	93.8	77.2	115.8
131	89.5	76.2	114.2



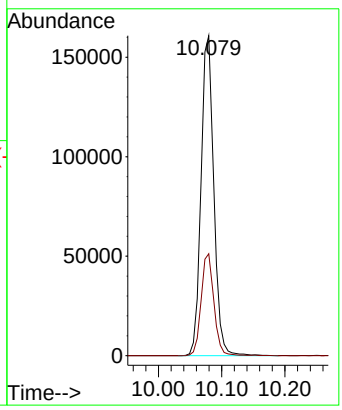


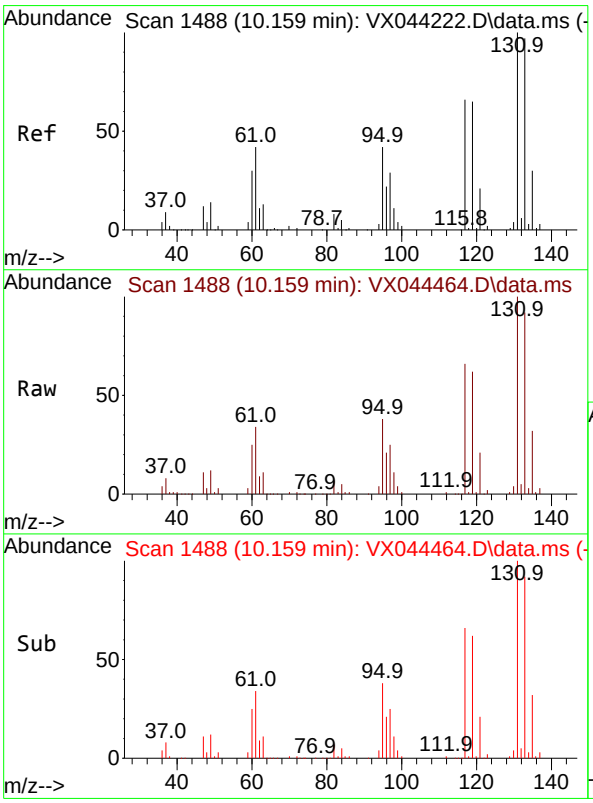
#65
Chlorobenzene
Concen: 51.056 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 225888

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.0	37.6

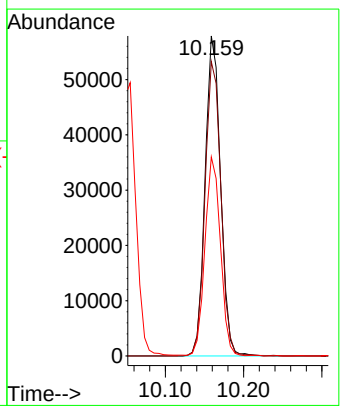


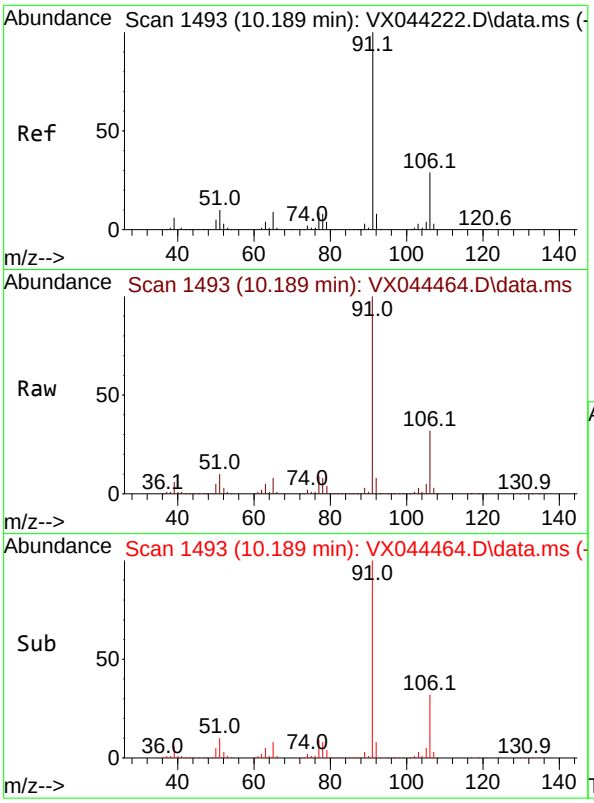


#66
1,1,1,2-Tetrachloroethane
Concen: 55.601 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:131 Resp: 79060

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	62.0	31.6	95.0



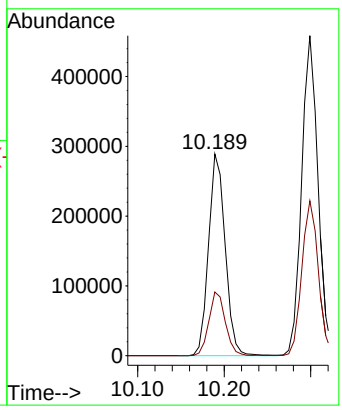


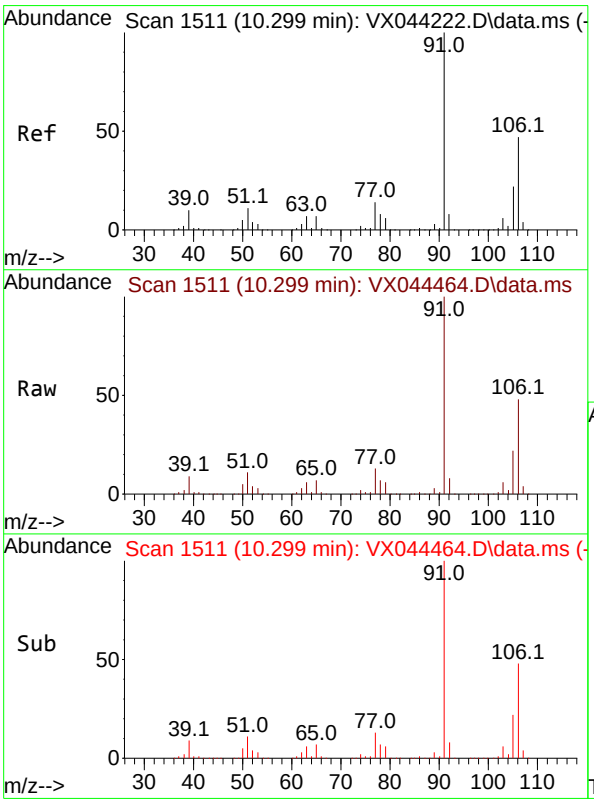
#67
Ethyl Benzene
Concen: 50.462 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 385756

Ion	Ratio	Lower	Upper
91	100		
106	31.6	23.5	35.3

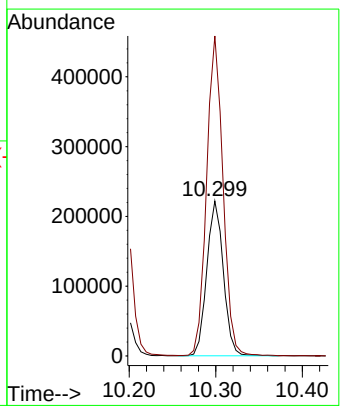


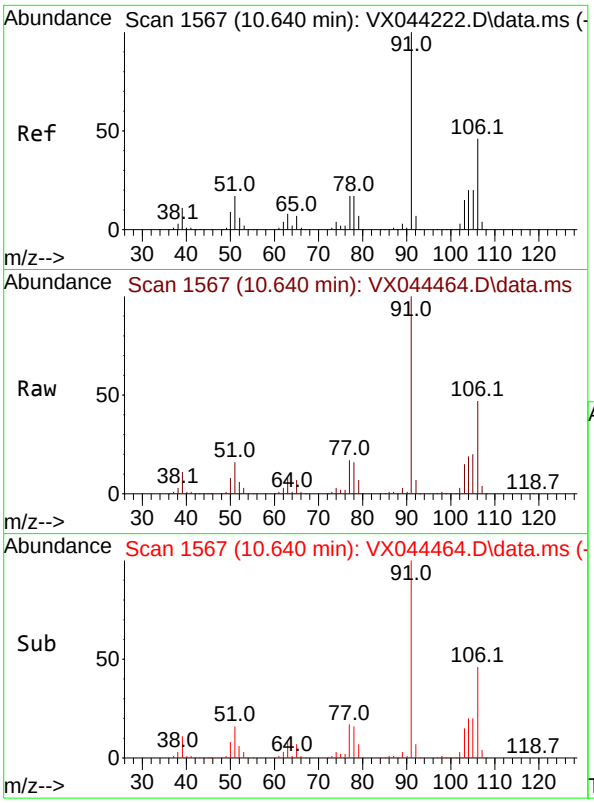


#68
m/p-Xylenes
Concen: 105.028 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:106 Resp: 294612

Ion	Ratio	Lower	Upper
106	100		
91	205.2	170.2	255.2



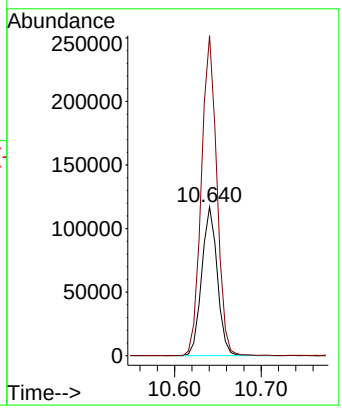


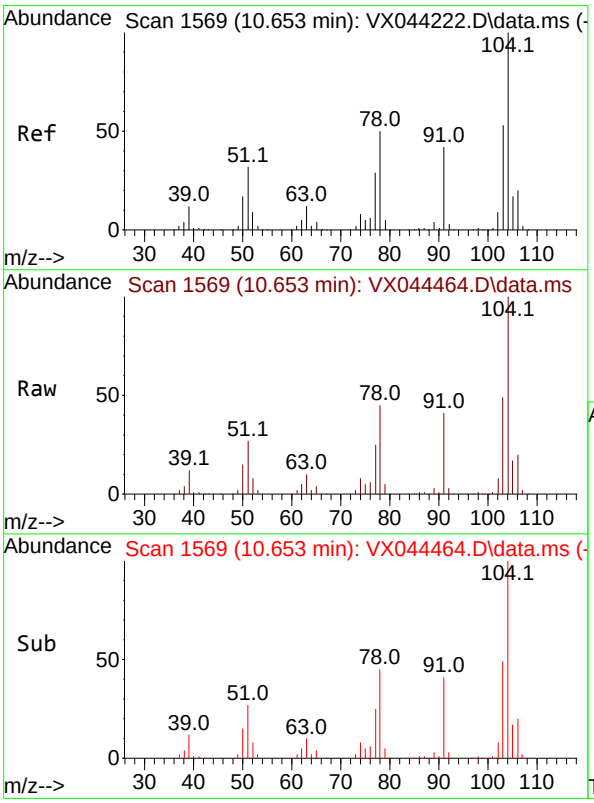
#69
o-Xylene
Concen: 51.494 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 146149

Ion	Ratio	Lower	Upper
106	100		
91	213.9	112.3	337.0

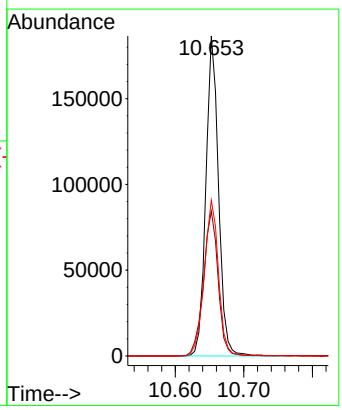


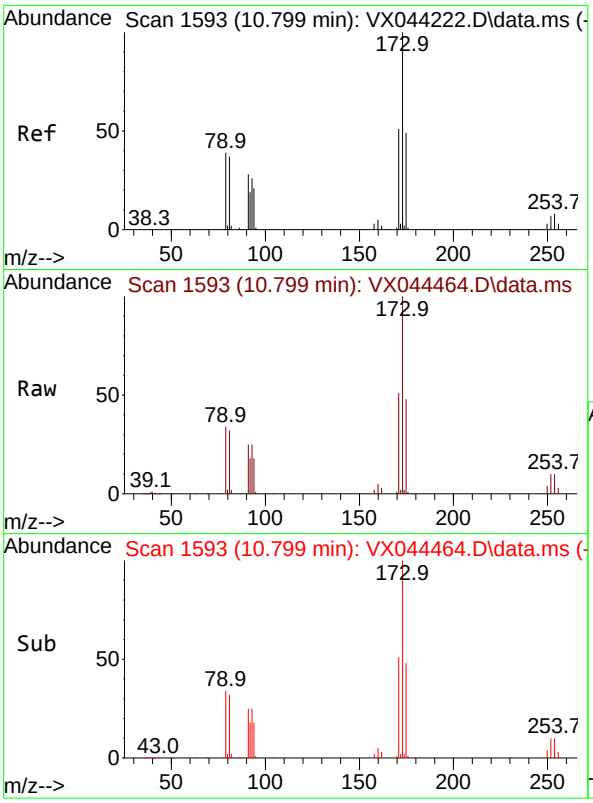


#70
Styrene
Concen: 52.761 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:104 Resp: 240058

Ion	Ratio	Lower	Upper
104	100		
78	52.3	44.6	67.0
103	55.0	45.4	68.0



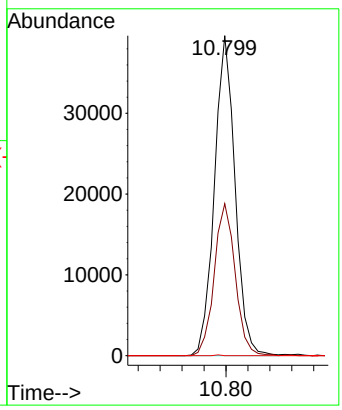


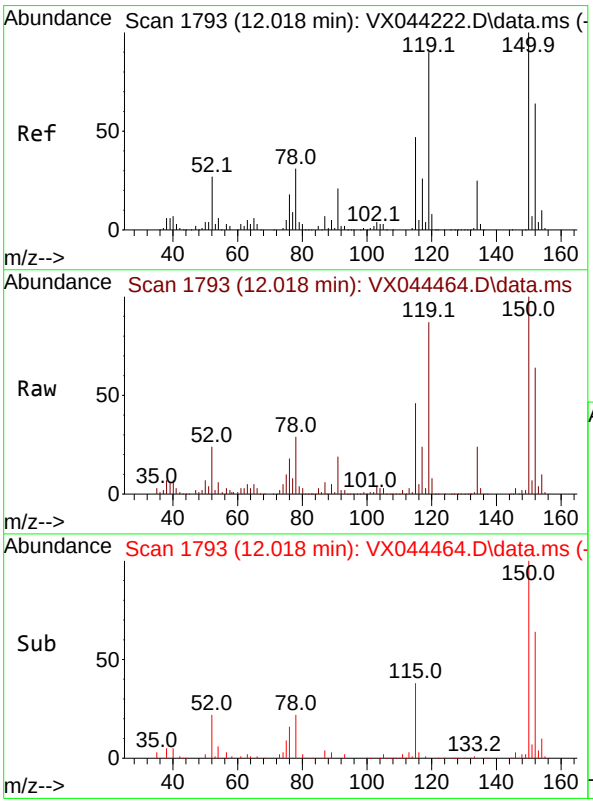
#71
Bromoform
Concen: 51.900 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 51823

Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.8	71.4
254	0.1	0.0	0.0#

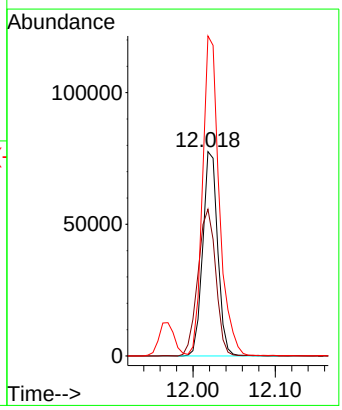


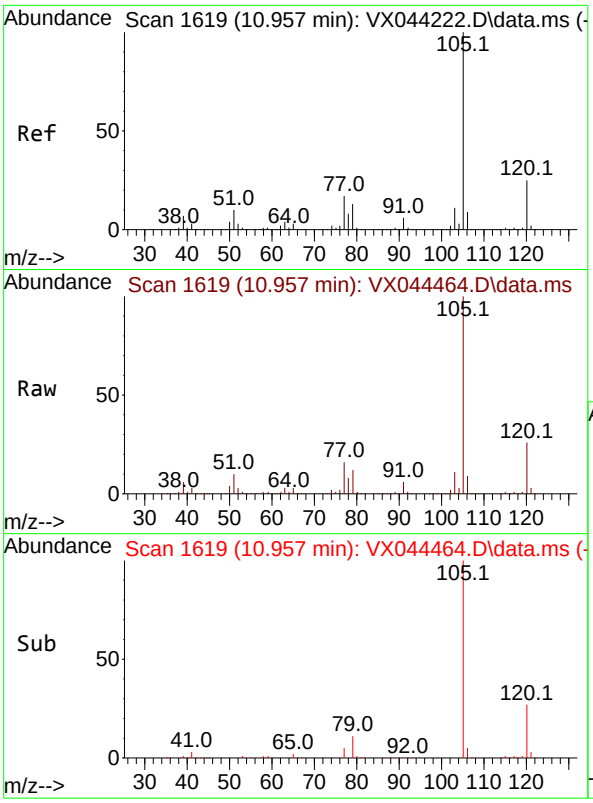


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:152 Resp: 97831

Ion	Ratio	Lower	Upper
152	100		
115	86.4	44.5	133.3
150	174.4	0.0	353.8



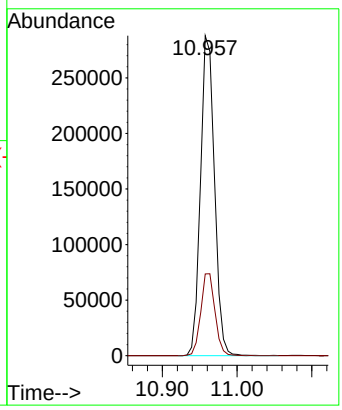


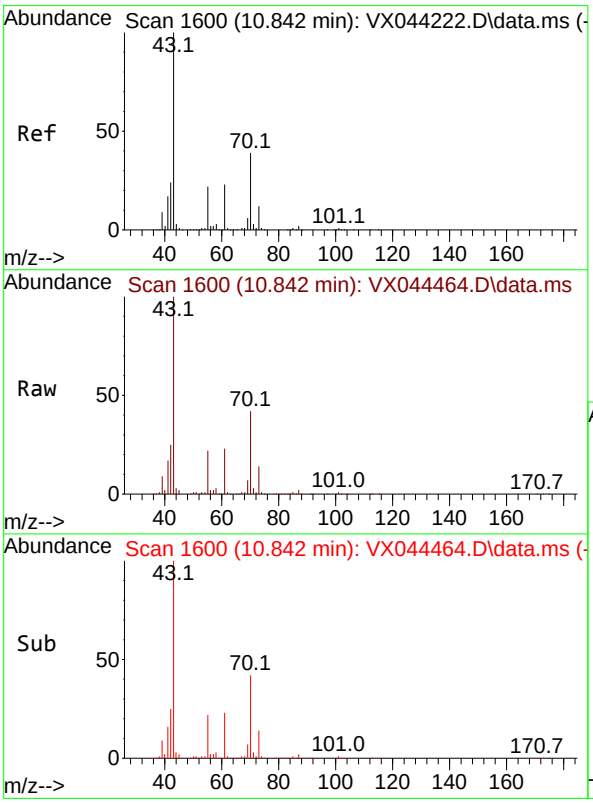
#73
Isopropylbenzene
Concen: 50.011 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 374548

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.3

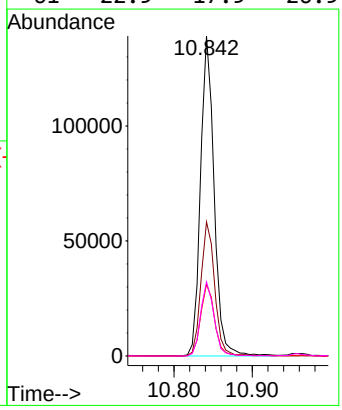


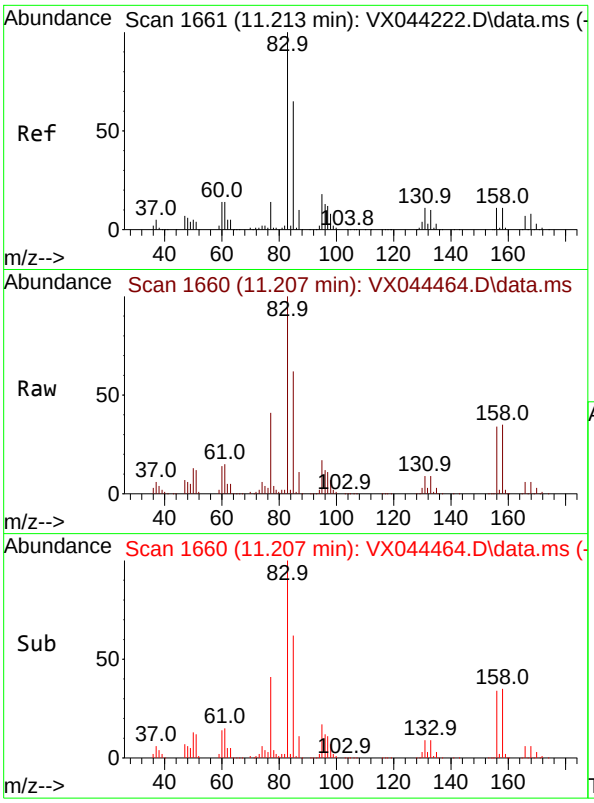


#74
N-amyl acetate
Concen: 48.576 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 43 Resp: 168135

Ion	Ratio	Lower	Upper
43	100		
70	42.4	31.9	47.9
55	22.9	17.9	26.9
61	22.9	17.9	26.9



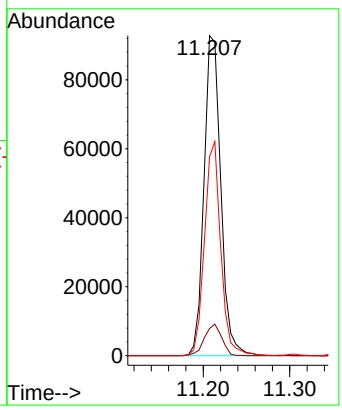


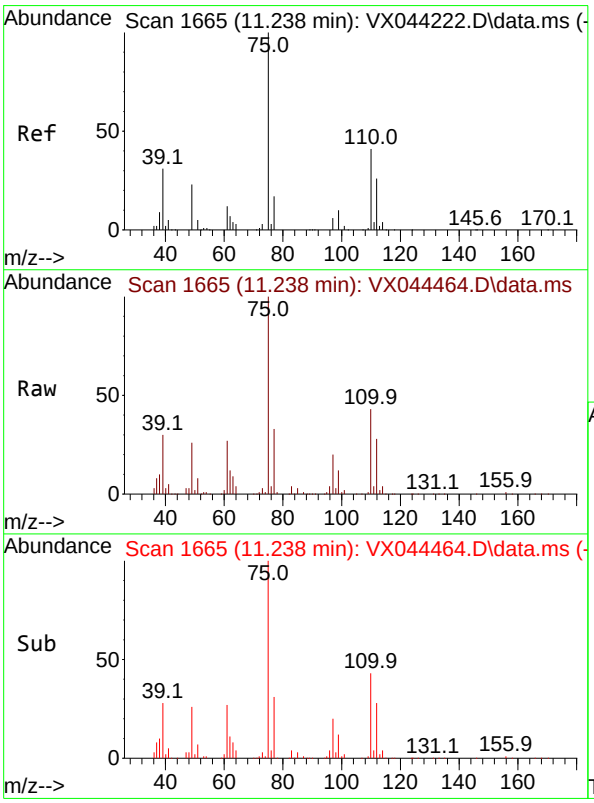
#75
1,1,2,2-Tetrachloroethane
Concen: 48.065 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 125030

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.4
85	64.6	32.5	97.4

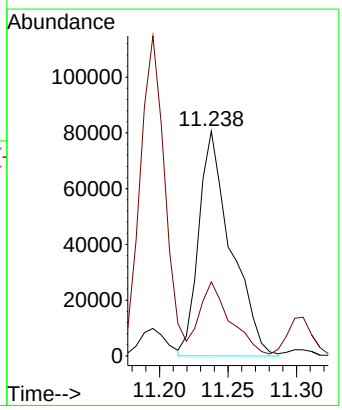


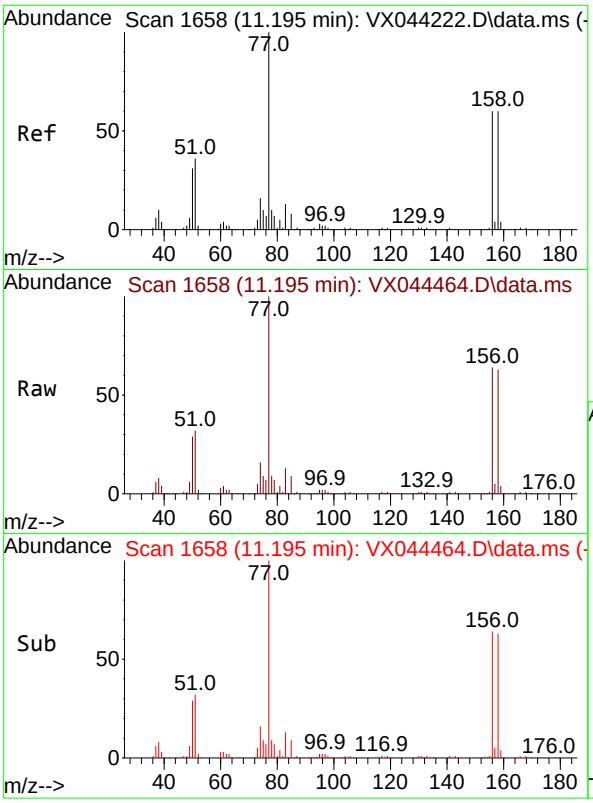


#76
1,2,3-Trichloropropane
Concen: 60.417 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 131971

Ion	Ratio	Lower	Upper
75	100		
77	31.7	20.9	62.7



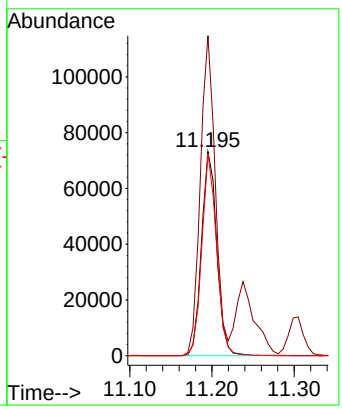


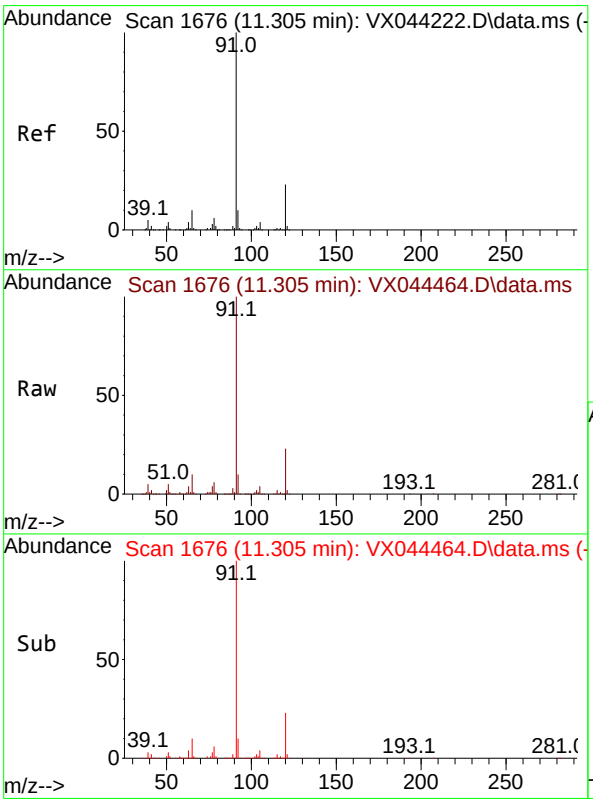
#77
Bromobenzene
Concen: 51.903 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 94262

Ion	Ratio	Lower	Upper
156	100		
77	153.3	82.6	247.8
158	95.8	48.8	146.4

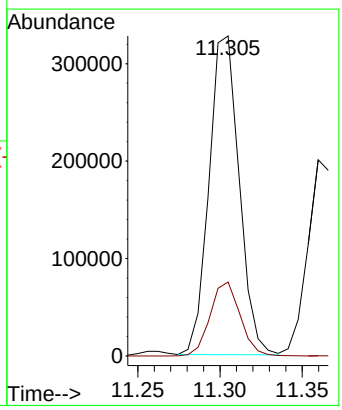


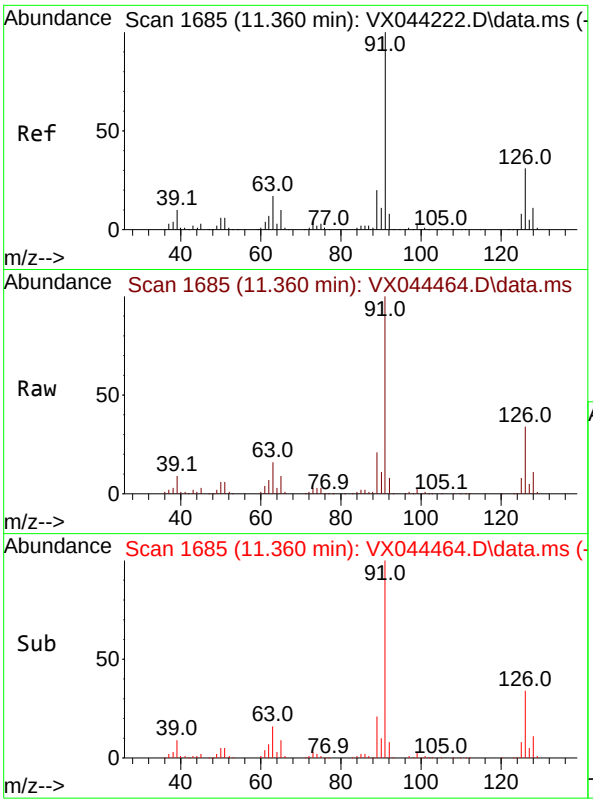


#78
n-propylbenzene
Concen: 50.432 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 417465

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.0	33.0



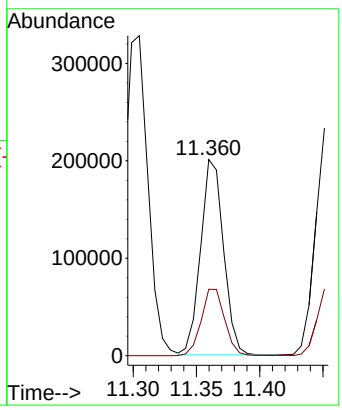


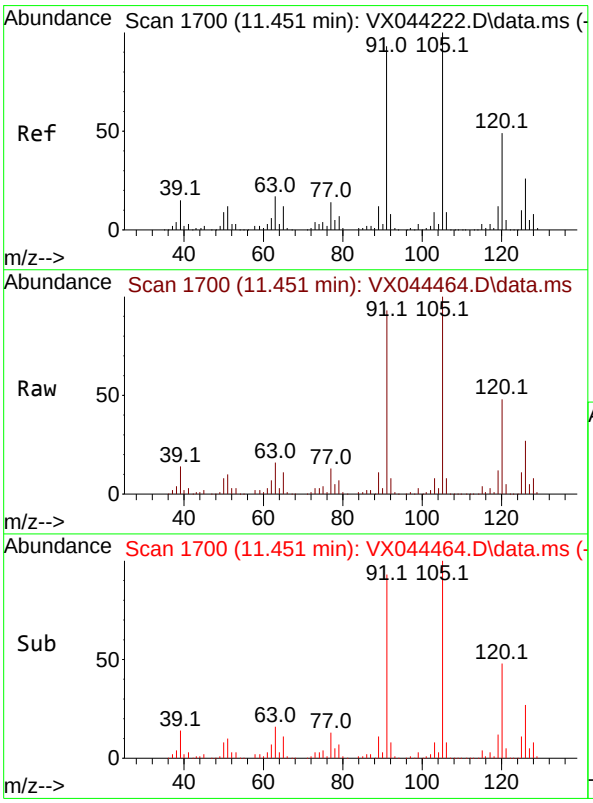
#79
2-Chlorotoluene
Concen: 47.285 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 253139

Ion	Ratio	Lower	Upper
91	100		
126	34.9	16.4	49.1

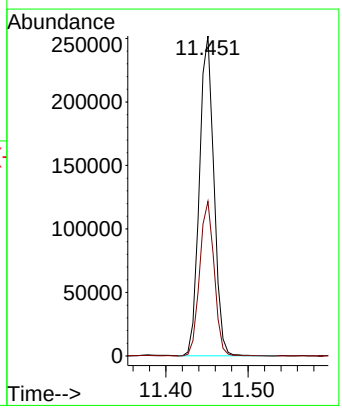


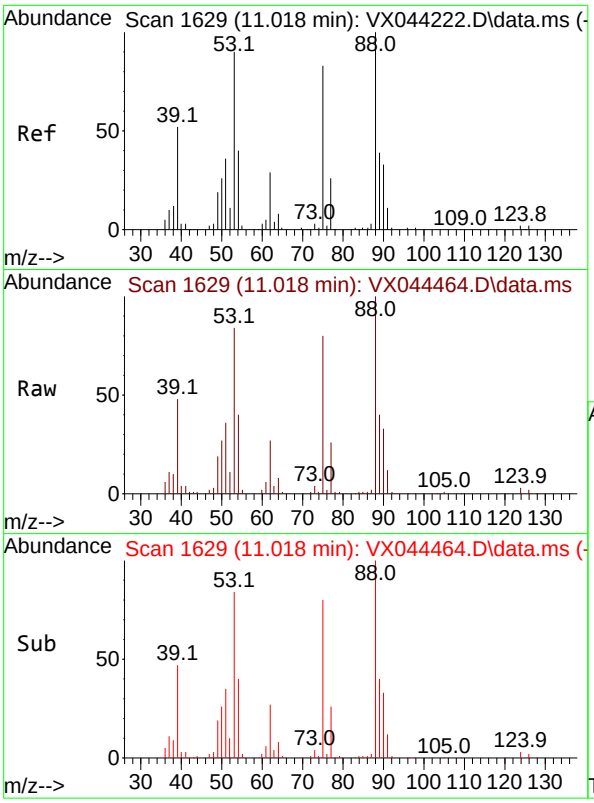


#80
1,3,5-Trimethylbenzene
Concen: 49.787 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 309218

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.8	71.4



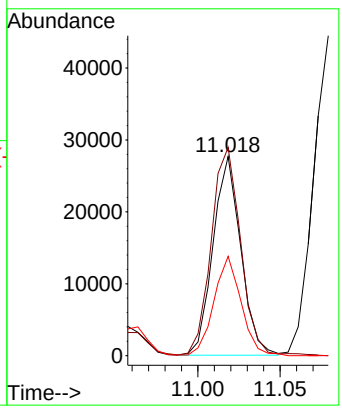


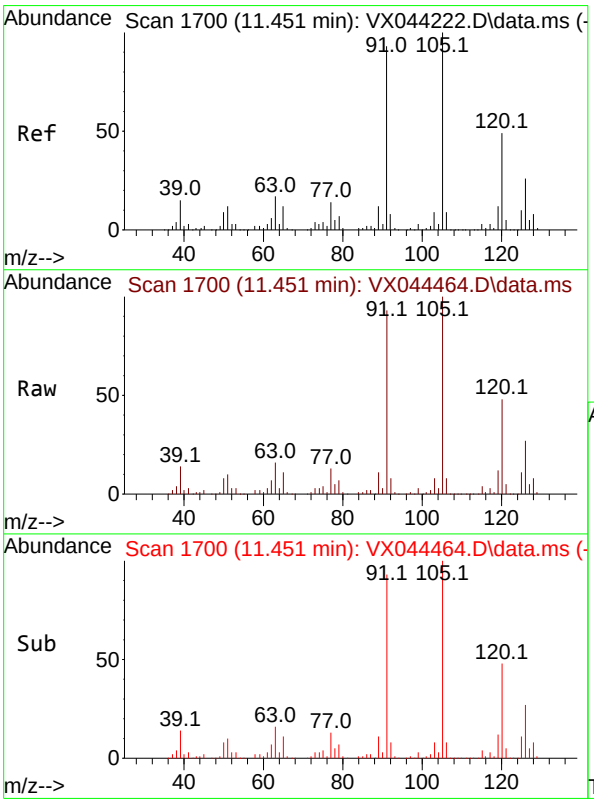
#81
trans-1,4-Dichloro-2-butene
Concen: 43.348 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 32407

Ion	Ratio	Lower	Upper
75	100		
53	111.6	93.6	140.4
89	49.1	37.3	55.9

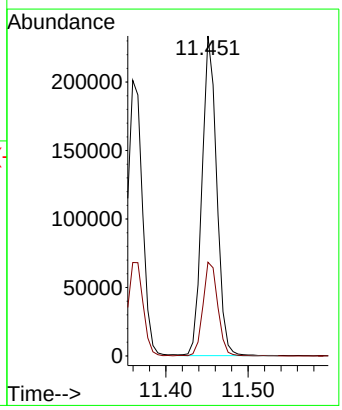


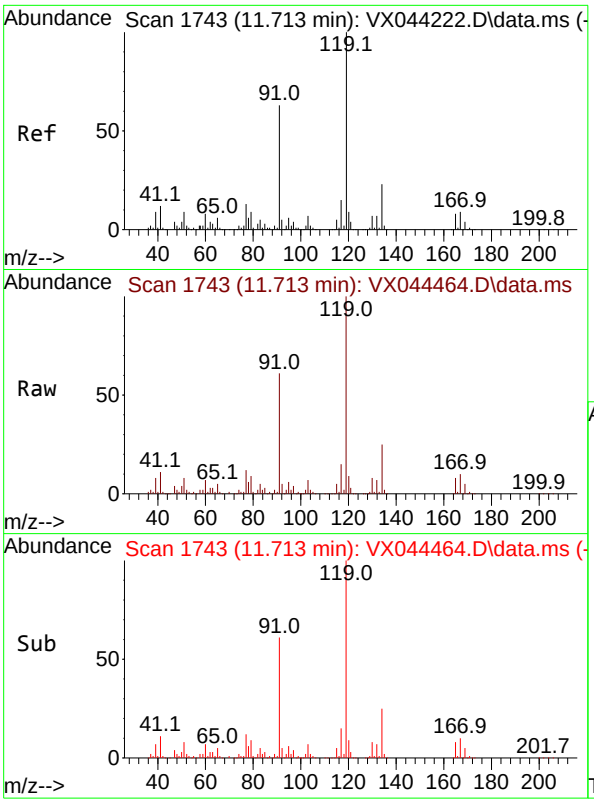


#82
4-Chlorotoluene
Concen: 48.802 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 91 Resp: 289306

Ion	Ratio	Lower	Upper
91	100		
126	29.8	14.5	43.5



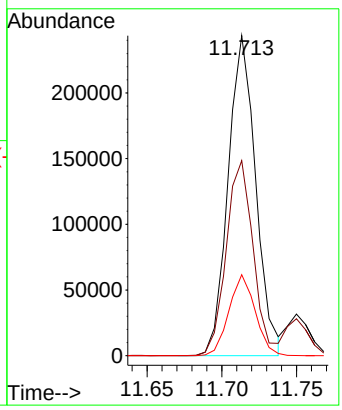


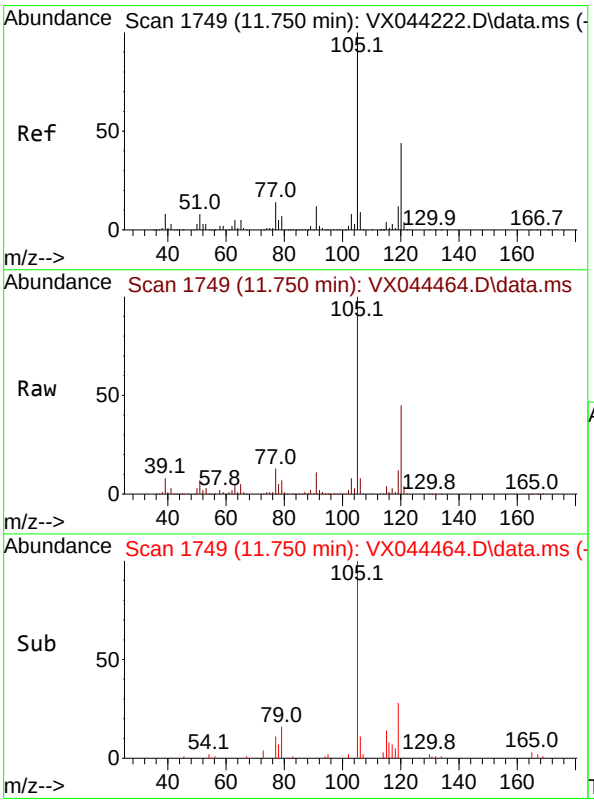
#83
tert-Butylbenzene
Concen: 50.950 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 312731

Ion	Ratio	Lower	Upper
119	100		
91	59.8	30.9	92.5
134	24.1	11.5	34.4

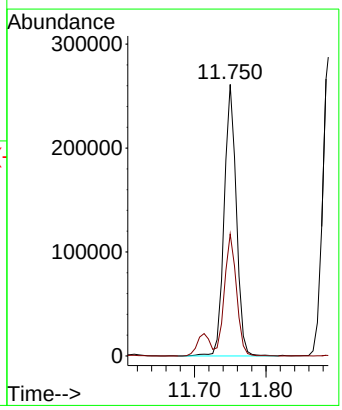


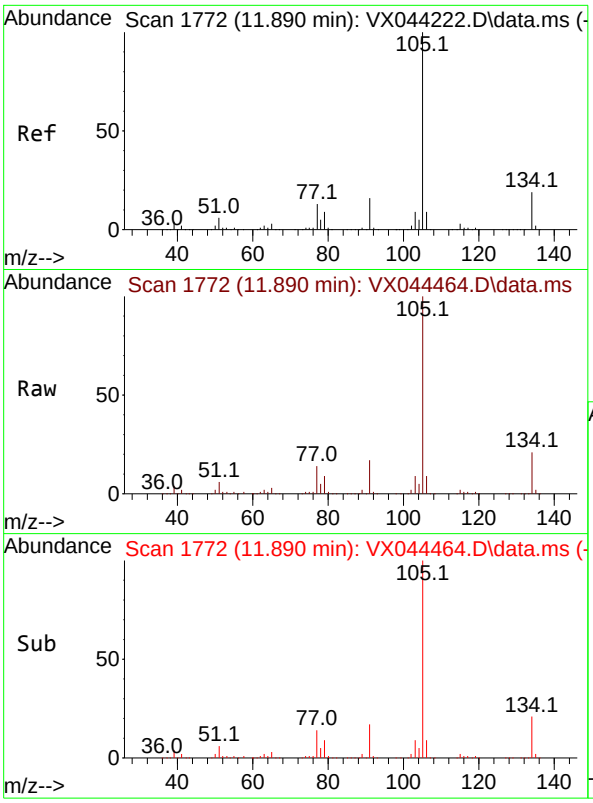


#84
1,2,4-Trimethylbenzene
Concen: 50.564 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:105 Resp: 308415

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1



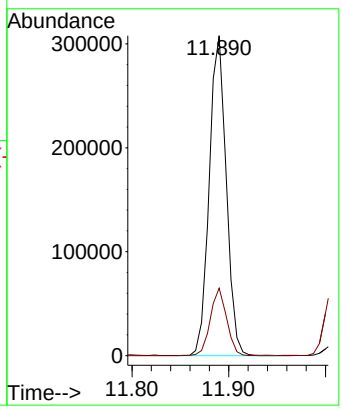


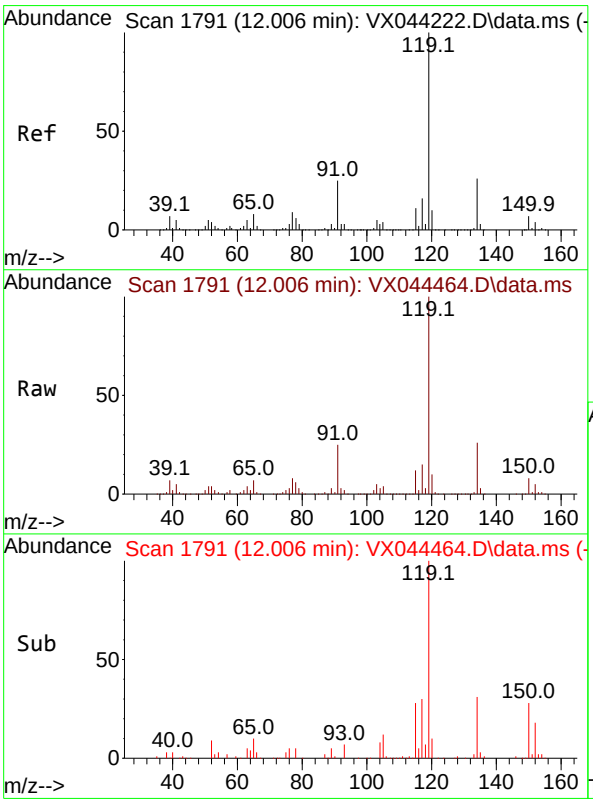
#85
sec-Butylbenzene
Concen: 50.546 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 376639

Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.4

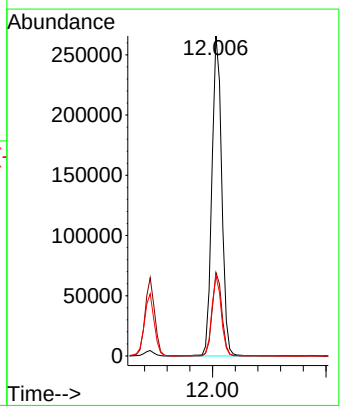


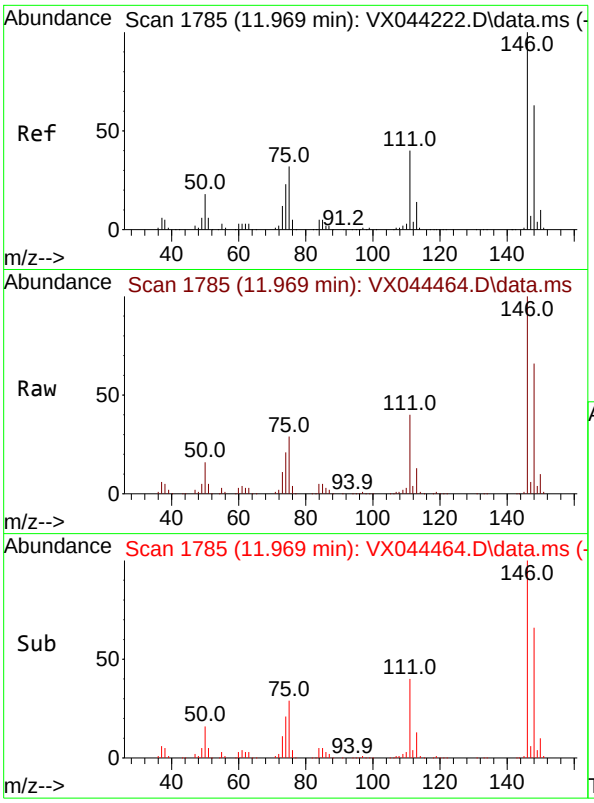


#86
p-Isopropyltoluene
Concen: 51.504 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:119 Resp: 319422

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.4
91	24.1	13.0	39.0



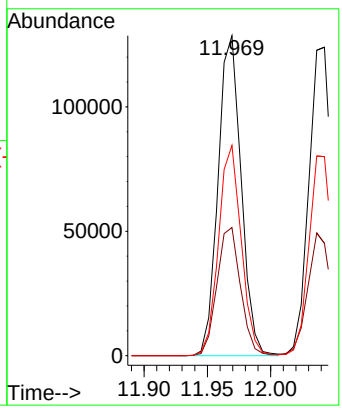


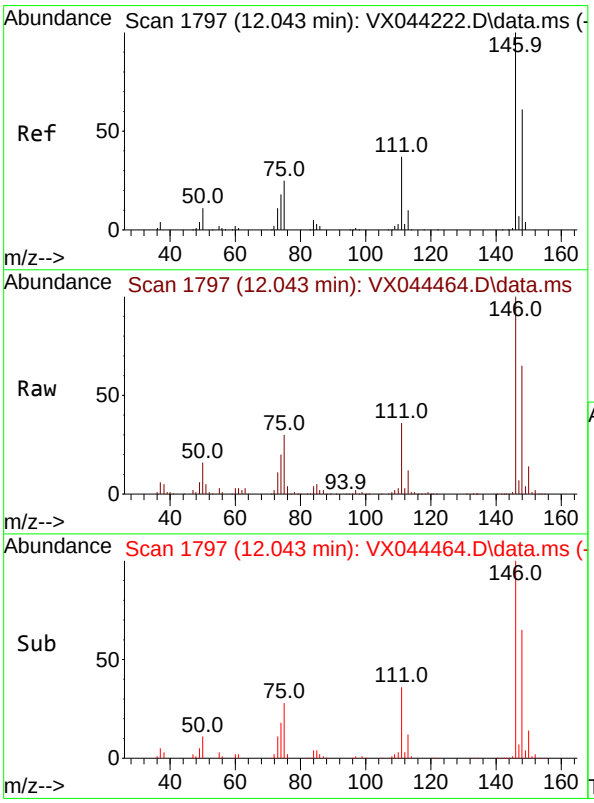
#87
1,3-Dichlorobenzene
Concen: 51.480 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 163311

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.4	64.2
148	64.7	31.7	95.1

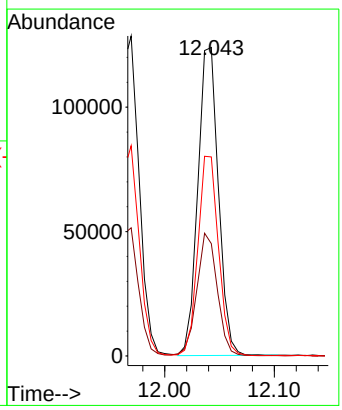


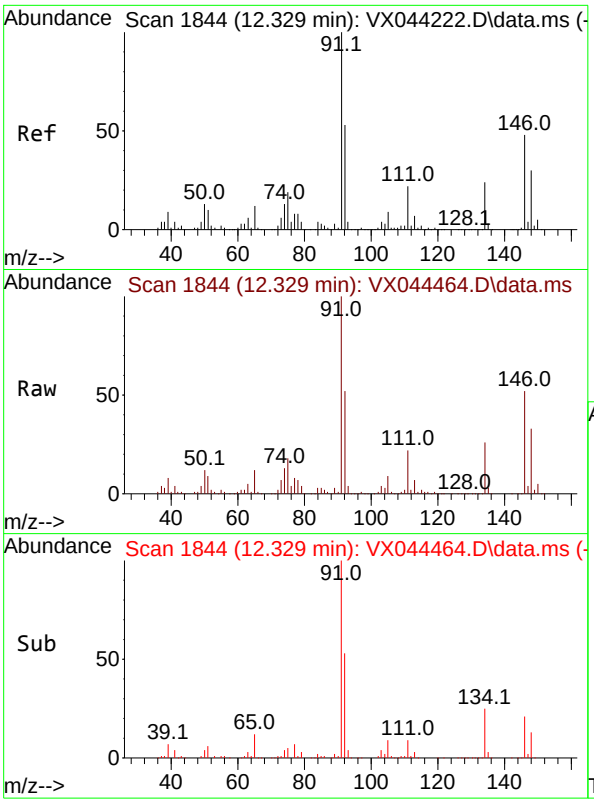


#88
1,4-Dichlorobenzene
Concen: 49.579 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:146 Resp: 161681

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.0	63.0
148	65.1	32.3	96.8



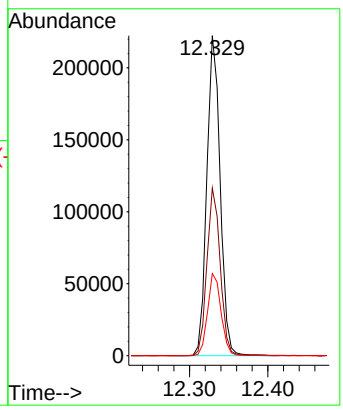


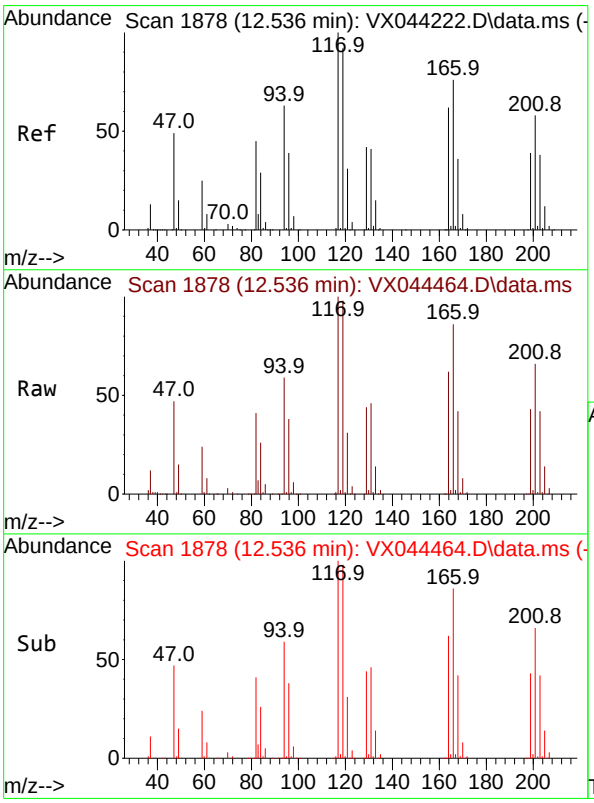
#89
n-Butylbenzene
Concen: 50.212 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 261860

Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.6	79.7
134	26.0	12.6	37.8

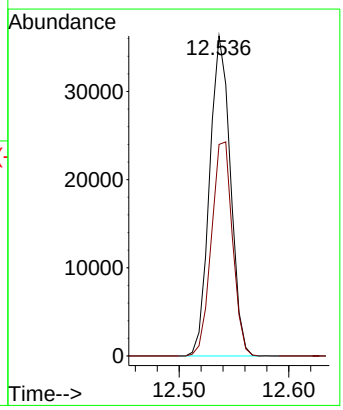


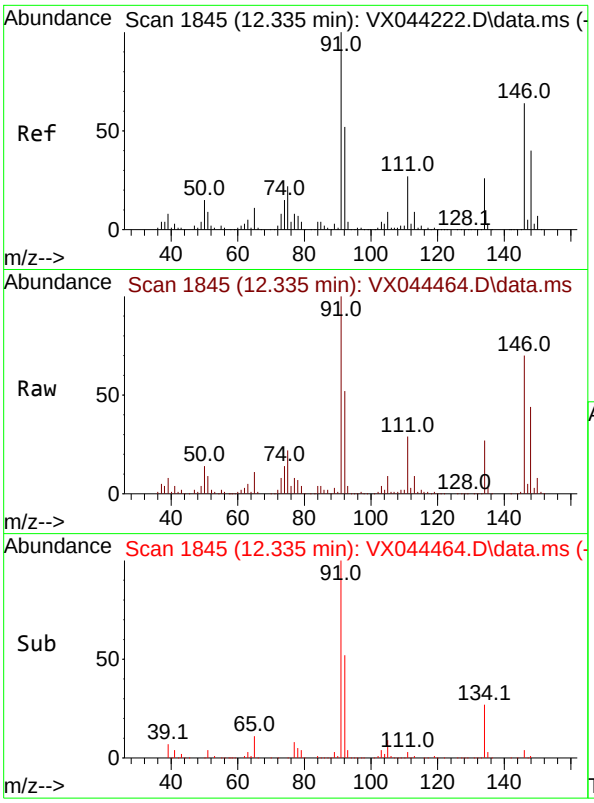


#90
Hexachloroethane
Concen: 52.940 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:117 Resp: 47928

Ion	Ratio	Lower	Upper
117	100		
201	67.8	31.4	94.2



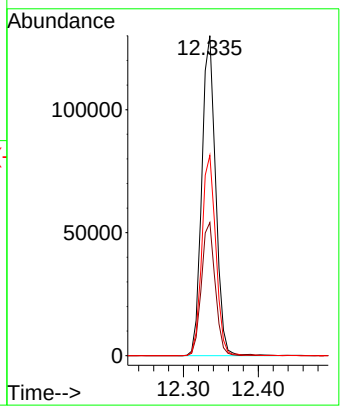


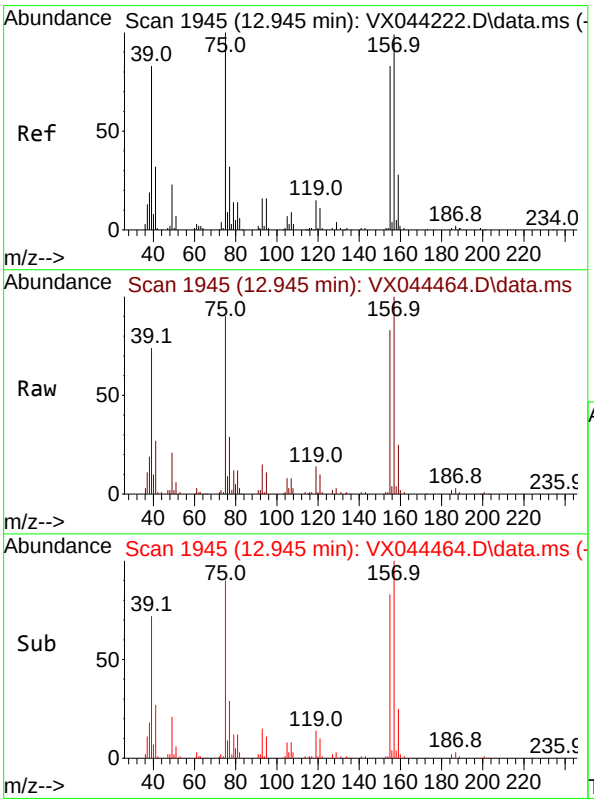
#91
1,2-Dichlorobenzene
Concen: 50.764 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 167214

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.4	64.3
148	63.1	31.6	95.0

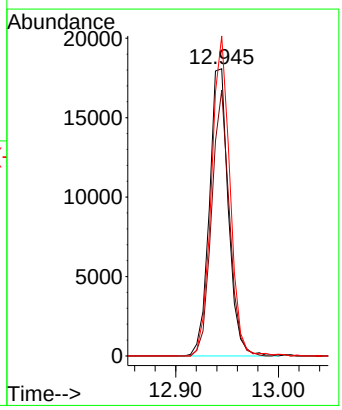


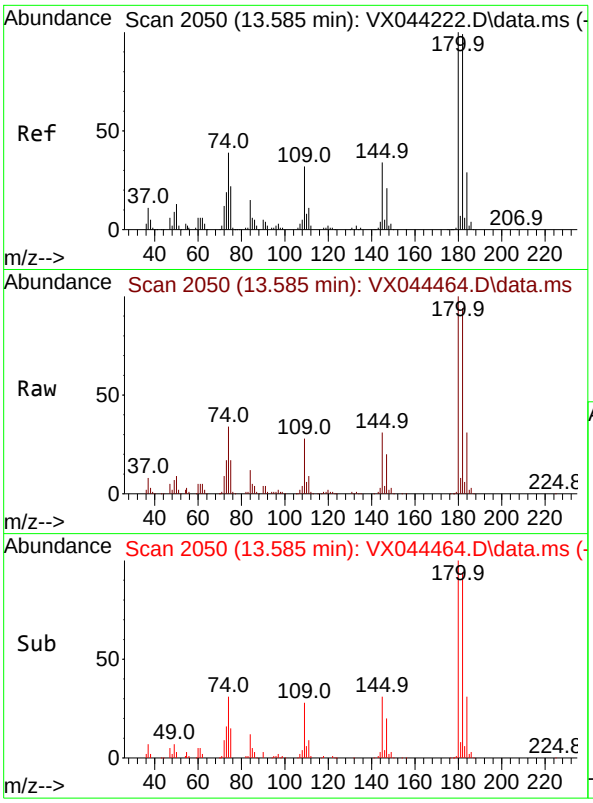


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.042 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion: 75 Resp: 23250

Ion	Ratio	Lower	Upper
75	100		
155	86.4	38.1	114.3
157	107.8	47.2	141.6



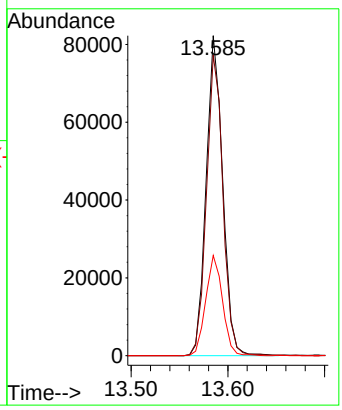


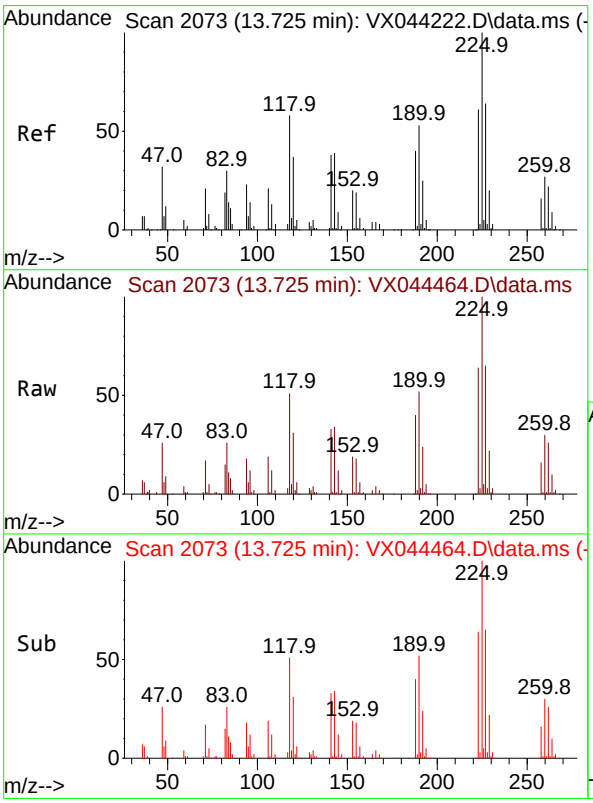
#93
1,2,4-Trichlorobenzene
Concen: 54.188 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 97858

Ion	Ratio	Lower	Upper
180	100		
182	93.8	48.0	144.2
145	31.9	16.6	49.7

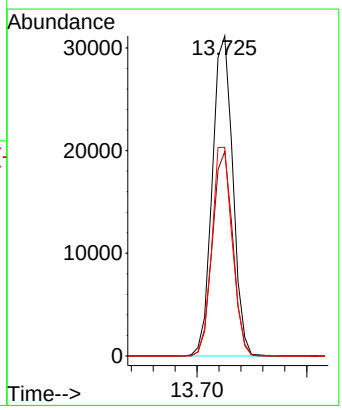


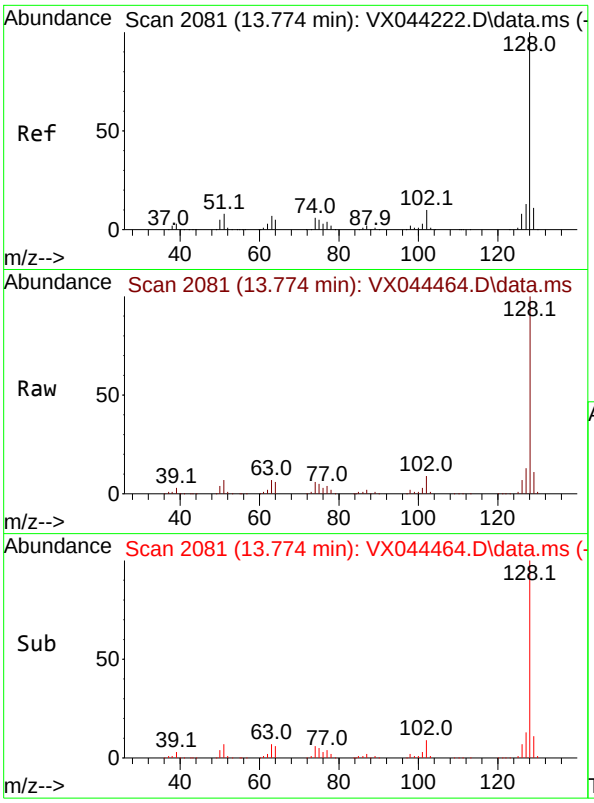


#94
Hexachlorobutadiene
Concen: 55.763 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:225 Resp: 40506

Ion	Ratio	Lower	Upper
225	100		
223	63.3	30.8	92.4
227	65.0	32.1	96.3



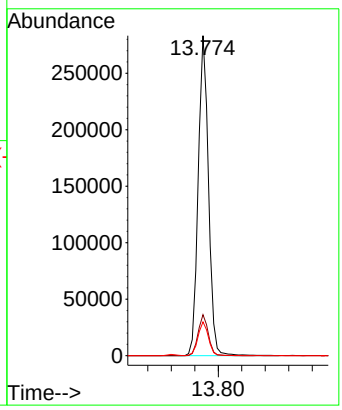


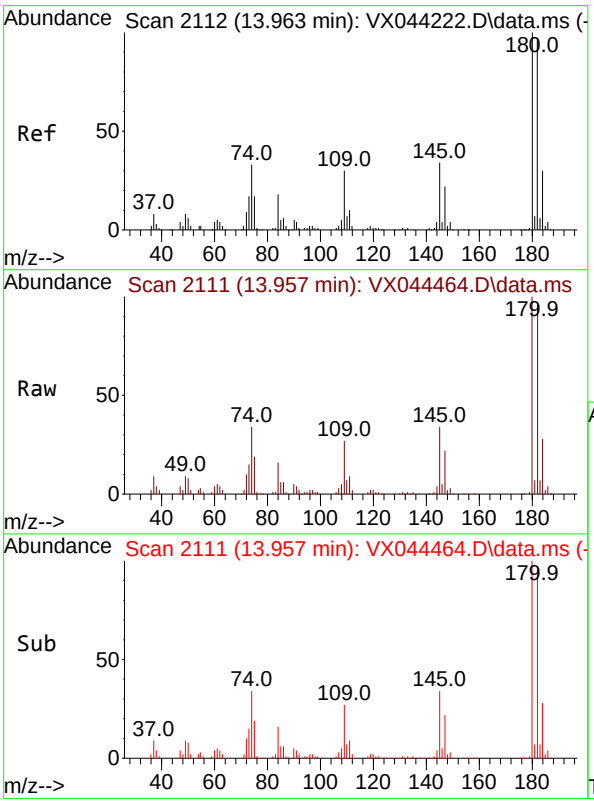
#95
Naphthalene
Concen: 48.680 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 343151

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.7	9.0	13.4





#96
1,2,3-Trichlorobenzene
Concen: 52.939 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.006 min
Lab File: VX044464.D
Acq: 20 Dec 2024 19:49

Tgt Ion:180 Resp: 101400

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.0
145	31.9	17.7	53.1