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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : FT MEADE TIPTON AIRFIELD PARCEL RI - PO 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : Q1352

ATTENTION : Nathan Fretz

Laboratory Certification ID # 20012

Table Of Contents for Q1352

1) TCLP 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 TCLP VOA 13
- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) LCS/LCSD Summary 16
- 9.3) Method Blank Summary 18
- 9.4) GS/MS Tune Summary 19
- 9.5) Internal Standard Area and RT Summary 21

10) Sample Data 23
- 10.1) TAP-IDW-SOIL-021025 24

11) Calibration Data Summary 34
- 11.1) Initial Calibration Data 35
  - 11.1.1) VX021025 35
- 11.2) Continued Calibration Data 404
  - 11.2.1) VX044948.D 404
  - 11.2.2) VX044974.D 463

12) QC Sample Data 522
- 12.1) Tune Raw Data 523
- 12.2) Method Blank Data 525
- 12.3) LCS Data 532
- 12.4) LCSD Data 585

13) Manual Integration 638
14) Analytical Runlogs 641
15) Extraction Logs 649
- 15.1) PB166701.pdf 649
- 15.2) PB166701IC.pdf 652

16) Standard Prep Logs 653
17) Shipping Document 777
- 17.1) Chain Of Custody 778

17.2) Lab Certificate 779

18) Not Reviewed Data 780

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

Cover Page

Order ID : Q1352

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number	Client Sample Number
Q1352-01	TAP-IDW-SOIL-021025
Q1352-02	TAP-IDW-SOIL-021025

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: 2/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Weston Solutions
Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169
Project # N/A
Chemtech Project # Q1352
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 02/11/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Ignitability, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP VOA.

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 TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

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

Trip Blank was not provided with this set of samples.

The not QT review data is reported in the Miscellaneous.

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

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. Calculation:

Water Calculation in ug/L

$$\frac{(A_x)(I_s)(Df)}{(Ais)(RRF)(V0)}$$

Where,
Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)
RRF = Relative response factor of the initial calibration curve standard.
Vo = Volume of water purged in milliliters (mL)
Df = Dilution factor.

G. 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: Q1352 MATRIX: TCLP

METHOD: 8260D/1311

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

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

Trip Blank was not provided with this set of samples.

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

NA NO YES

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,
Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1352

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 02/21/2025

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

LAB CHRONICLE

OrderID:	Q1352	**OrderDate:**	2/11/2025 11:32:00 AM
Client:	Weston Solutions	**Project:**	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	**Location:**	N51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1352-02	**TAP-IDW-SOIL-021025**	**TCLP**			**02/10/25**			**02/11/25**
			TCLP VOA	8260D			02/14/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1352

Client: Weston Solutions

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**TAP-IDW-SOIL-021025**								
Q1352-02	TAP-IDW-SOIL-02 TCLP		2-Butanone	5.00	J	1.30	2.50	25.0	ug/L
			Total Voc :	5.00					
			Total Concentration:	5.00					

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1352-02	TAP-IDW-SOIL-021025	1,2-Dichloroethane-d4	50	55.4	111	81	118
		Dibromofluoromethane	50	51.3	103	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	51.7	103	85	114

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

Surrogate Summary

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX0214WBL01	VX0214WBL01	1,2-Dichloroethane-d4	50	55.2	110	81	118
		Dibromofluoromethane	50	51.7	103	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	50.5	101	85	114
VX0214WBS01	VX0214WBS01	1,2-Dichloroethane-d4	50	50.7	101	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	49.7	99	89	112
		4-Bromofluorobenzene	50	51.5	103	85	114
VX0214WBSD0	VX0214WBSD01	1,2-Dichloroethane-d4	50	51.1	102	81	118
		Dibromofluoromethane	50	50.6	101	80	119
		Toluene-d8	50	49.8	100	89	112
		4-Bromofluorobenzene	50	52.8	106	85	114

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: SW8260-Low **Datafile :** VX044951.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0214WBS01	Vinyl chloride	20	18.3	ug/L	92			58	137	
	1,1-Dichloroethene	20	18.9	ug/L	95			71	131	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	20.2	ug/L	101			72	136	
	Chloroform	20	20.6	ug/L	103			79	124	
	Benzene	20	20.0	ug/L	100			79	120	
	1,2-Dichloroethane	20	21.8	ug/L	109			73	128	
	Trichloroethene	20	19.8	ug/L	99			79	123	
	Tetrachloroethene	20	21.0	ug/L	105			74	129	
	Chlorobenzene	20	20.2	ug/L	101			82	118	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: SW8260-Low **Datafile :** VX044952.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0214WBSD01	Vinyl chloride	20	17.6	ug/L	88	4		58	137	20
	1,1-Dichloroethene	20	18.1	ug/L	91	4		71	131	20
	2-Butanone	100	110	ug/L	110	0		56	143	20
	Carbon Tetrachloride	20	19.7	ug/L	99	2		72	136	20
	Chloroform	20	20.0	ug/L	100	3		79	124	20
	Benzene	20	19.6	ug/L	98	2		79	120	20
	1,2-Dichloroethane	20	21.8	ug/L	109	0		73	128	20
	Trichloroethene	20	19.4	ug/L	97	2		79	123	20
	Tetrachloroethene	20	20.3	ug/L	102	3		74	129	20
	Chlorobenzene	20	20.0	ug/L	100	1		82	118	20

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0214WBL01

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

Lab File ID: VX044950.D Lab Sample ID: VX0214WBL01

Date Analyzed: 02/14/2025 Time Analyzed: 10:51

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
VX0214WBS01	VX0214WBS01	VX044951.D	02/14/2025
VX0214WBSD01	VX0214WBSD01	VX044952.D	02/14/2025
TAP-IDW-SOIL-021025	Q1352-02	VX044960.D	02/14/2025

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: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

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

Instrument ID: MSVOA_X BFB Injection Time: 09:35

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

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

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

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

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

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: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

Lab File ID: VX044947.D BFB Injection Date: 02/14/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:35

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	51.5
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	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	5.2 (7) 1
176	95.0 - 101.0% of mass 174	71.2 (95.7) 1
177	5.0 - 9.0% of mass 176	4.6 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044948.D	02/14/2025	10:04
VX0214WBL01	VX0214WBL01	VX044950.D	02/14/2025	10:51
VX0214WBS01	VX0214WBS01	VX044951.D	02/14/2025	11:14
VX0214WBSD01	VX0214WBSD01	VX044952.D	02/14/2025	11:40
TAP-IDW-SOIL-021025	Q1352-02	VX044960.D	02/14/2025	14:43
VSTDCCC050EC	VSTDCCC050	VX044974.D	02/14/2025	20:06

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

Lab File ID: VX044948.D Date Analyzed: 02/14/2025

Instrument ID: MSVOA_X Time Analyzed: 10:04

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	111649	5.54	194847	6.75	171164	10.05
UPPER LIMIT	223298	6.037	389694	7.251	342328	10.549
LOWER LIMIT	55824.5	5.037	97423.5	6.251	85582	9.549
EPA SAMPLE NO.						
TAP-IDW-SOIL-021025	83348	5.54	169946	6.76	154821	10.05
VX0214WBL01	79162	5.54	161000	6.76	145614	10.05
VX0214WBS01	109167	5.54	195743	6.76	172020	10.05
VX0214WBSD01	103875	5.54	184991	6.76	164889	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.

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

Lab File ID: VX044948.D Date Analyzed: 02/14/2025

Instrument ID: MSVOA_X Time Analyzed: 10:04

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

	IS4 AREA #	RT #				
12 HOUR STD	79140	12.018				
UPPER LIMIT	158280	12.518				
LOWER LIMIT	39570	11.518				
EPA SAMPLE NO.						
TAP-IDW-SOIL-021025	66540	12.02				
VX0214WBL01	59196	12.02				
VX0214WBS01	79806	12.02				
VX0214WBSD01	77784	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:	Weston Solutions	Date Collected:	02/10/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	TAP-IDW-SOIL-021025	SDG No.:	Q1352
Lab Sample ID:	Q1352-02	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044960.D	1		02/14/25 14:43	VX021425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	5.00	ug/L
78-93-3	2-Butanone	5.00	J	1.30	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	5.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	5.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.24	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	5.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.4		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	83300	5.544				
540-36-3	1,4-Difluorobenzene	170000	6.757				
3114-55-4	Chlorobenzene-d5	155000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	66500	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044960.D
Acq On : 14 Feb 2025 14:43
Operator : JC/MD
Sample : Q1352-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 14 22:15:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	83348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	169946	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	154821	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66540	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	67561	55.375	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.740%			
35) Dibromofluoromethane	5.379	113	56676	51.294	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.580%			
50) Toluene-d8	8.647	98	211950	50.728	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.460%			
62) 4-Bromofluorobenzene	11.079	95	72775	51.666	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.340%			
Target Compounds						Qvalue
16) Acetone	2.380	43	49394	100.706	ug/l	96
18) Methyl Acetate	2.703	43	2336	1.509	ug/l #	89
20) Methylene Chloride	2.782	84	2256	1.878	ug/l	91
25) 2-Butanone	4.587	43	3997m	5.019	ug/l	
43) Isopropyl Acetate	6.336	43	100784	35.198	ug/l	99

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

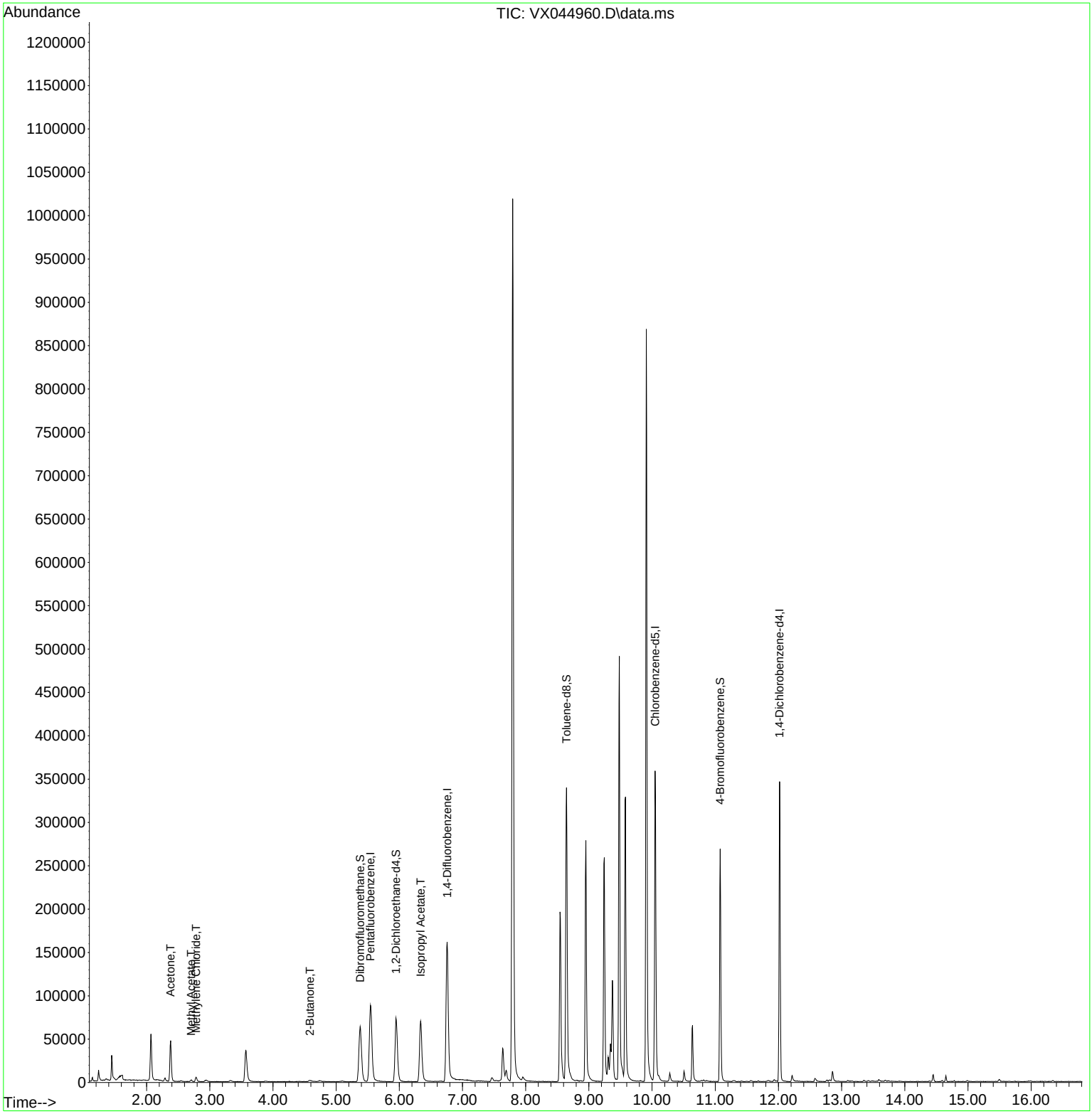
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044960.D
Acq On : 14 Feb 2025 14:43
Operator : JC/MD
Sample : Q1352-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

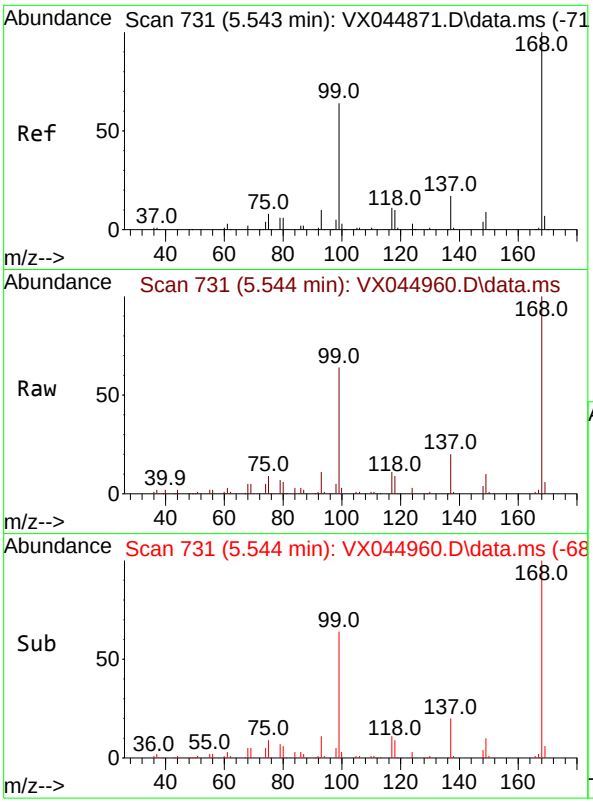
Quant Time: Feb 14 22:15:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

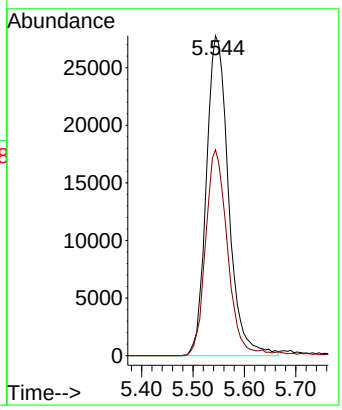




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion:168 Resp: 8334

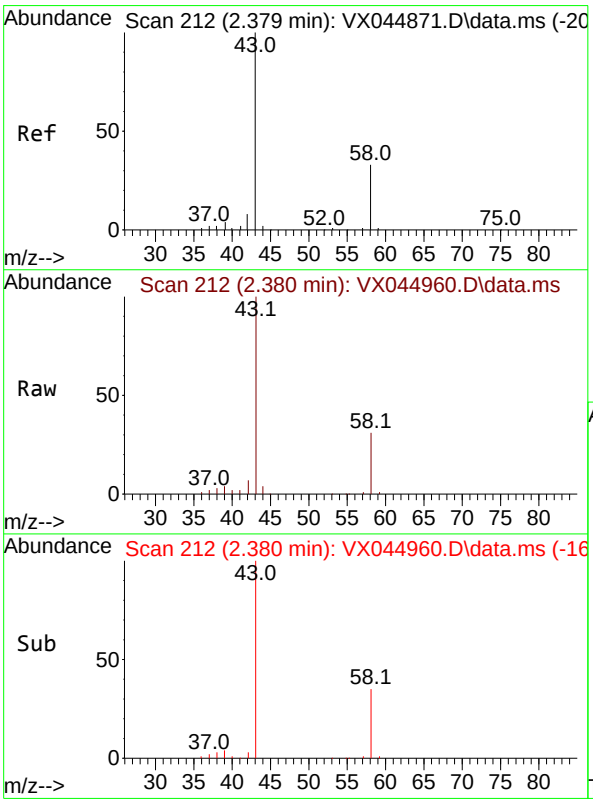
Ion	Ratio	Lower	Upper
168	100		
99	64.3	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations
APPROVED

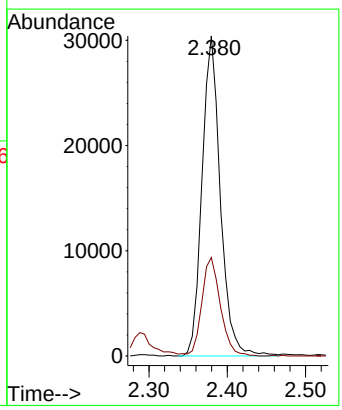
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

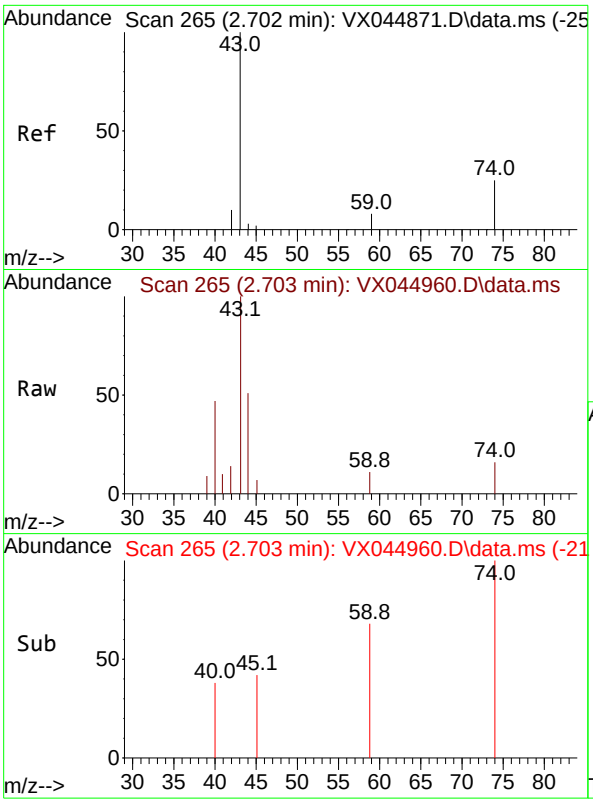


#16
Acetone
Concen: 100.706 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 43 Resp: 49394

Ion	Ratio	Lower	Upper
43	100		
58	30.8	26.5	39.7





#18
Methyl Acetate
Concen: 1.509 ug/l
RT: 2.703 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

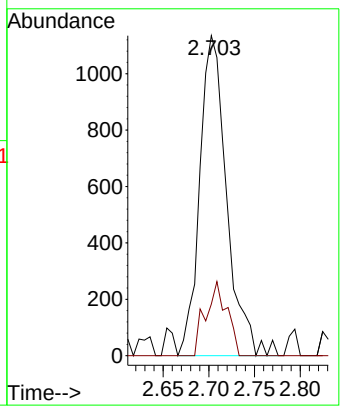
Tgt Ion: 43 Resp: 233(

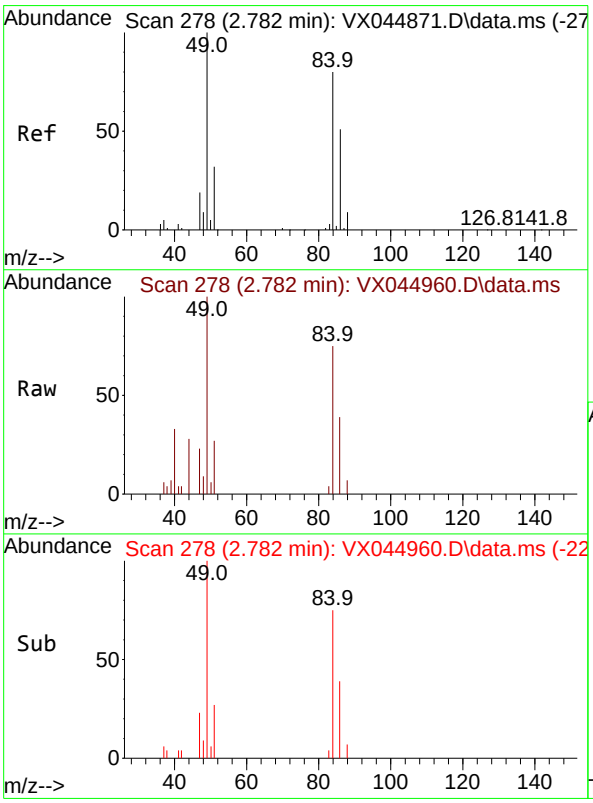
Ion	Ratio	Lower	Upper
43	100		
74	18.2	18.9	28.3#

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

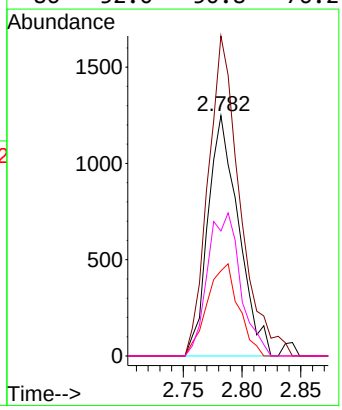


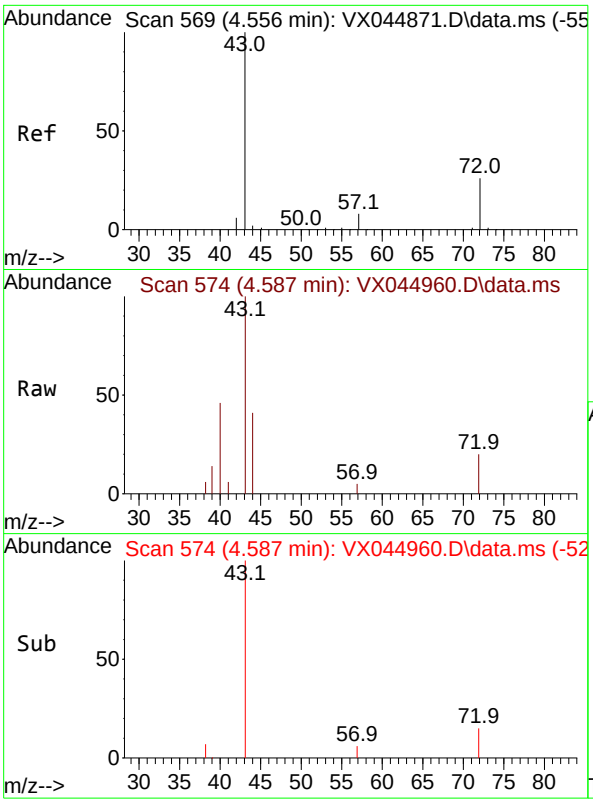


#20
Methylene Chloride
Concen: 1.878 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 84 Resp: 2256

Ion	Ratio	Lower	Upper
84	100		
49	133.2	100.1	150.1
51	35.4	31.7	47.5
86	52.0	50.8	76.2





#25
2-Butanone
Concen: 5.019 ug/l m
RT: 4.587 min Scan# 5
Delta R.T. 0.031 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

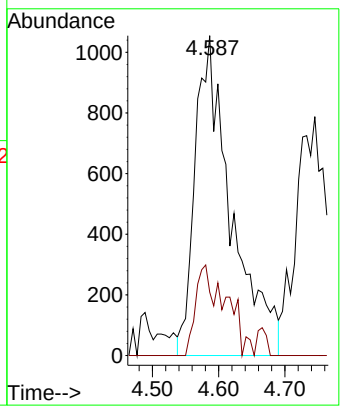
Tgt Ion: 43 Resp: 399

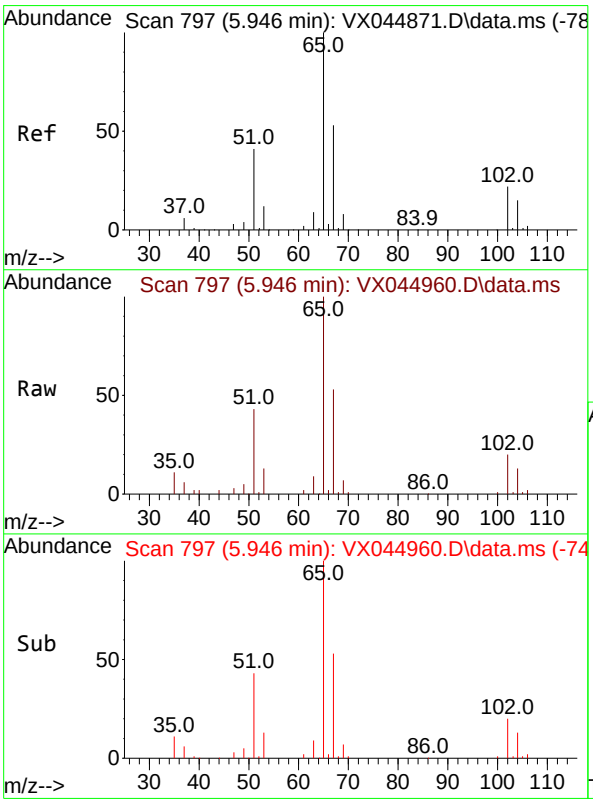
Ion	Ratio	Lower	Upper
43	100		
72	19.8	21.2	31.8#

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

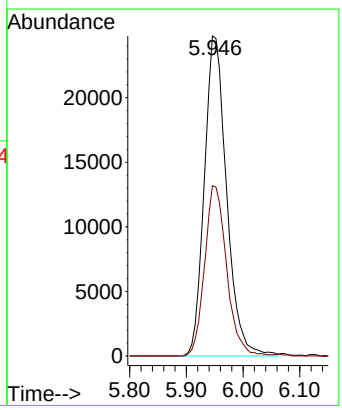


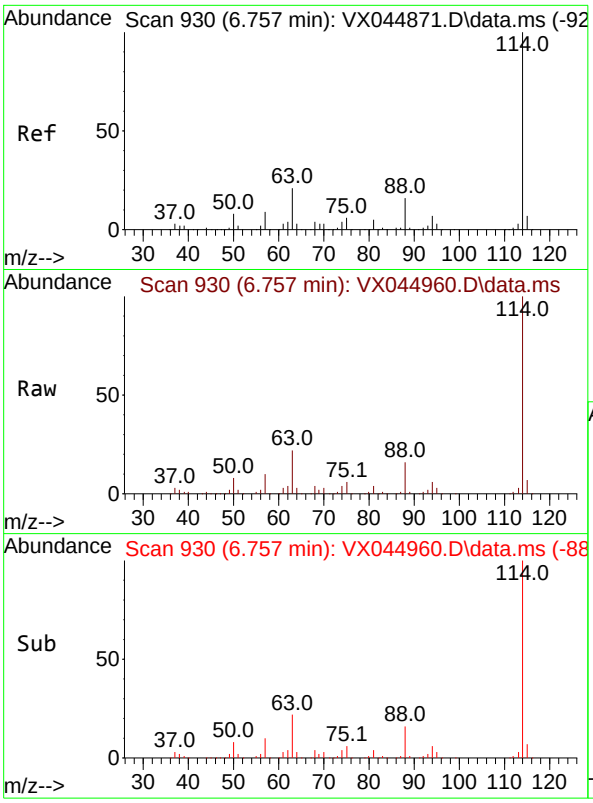


#33
1,2-Dichloroethane-d4
Concen: 55.375 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 65 Resp: 67561

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	108.2

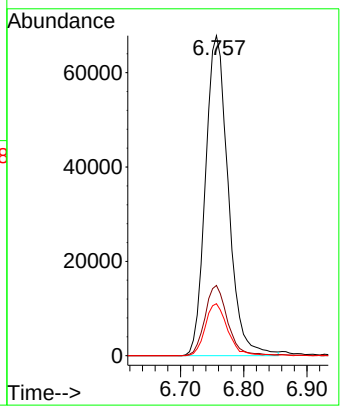




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion:114 Resp: 16994

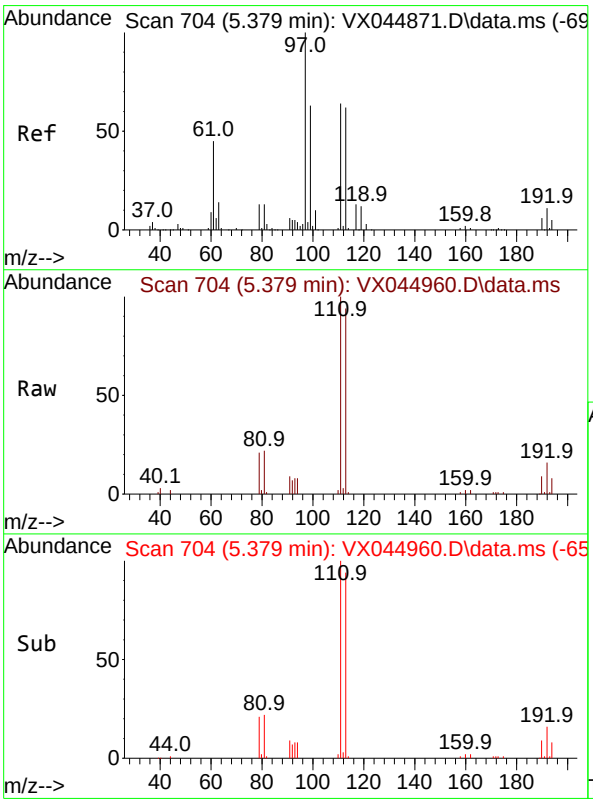
Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	42.4
88	16.3	0.0	31.4



Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations
APPROVED

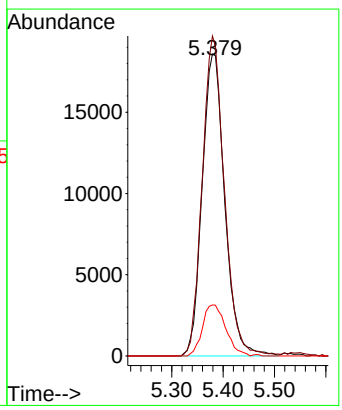
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

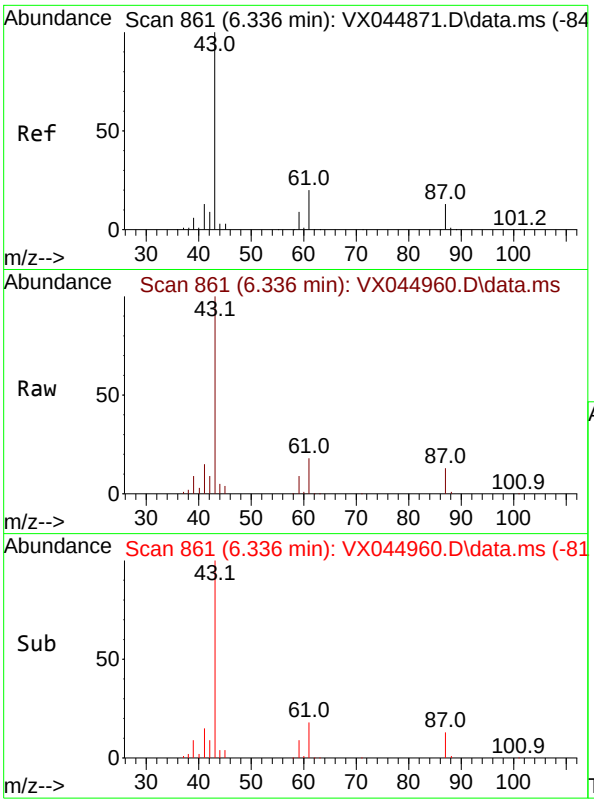


#35
Dibromofluoromethane
Concen: 51.294 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion:113 Resp: 56676

Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.5	125.3
192	17.5	14.4	21.6

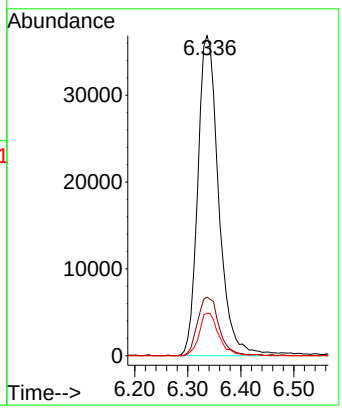




#43
Isopropyl Acetate
Concen: 35.198 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 43 Resp: 10078

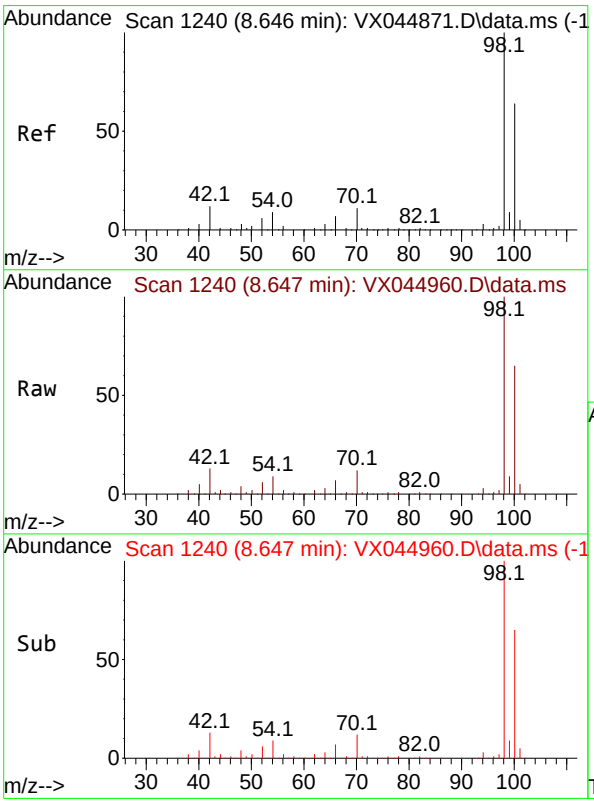
Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.8	23.8
87	12.4	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations
APPROVED

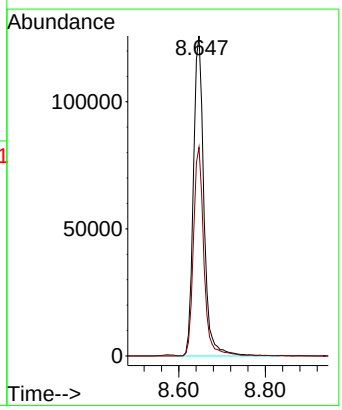
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

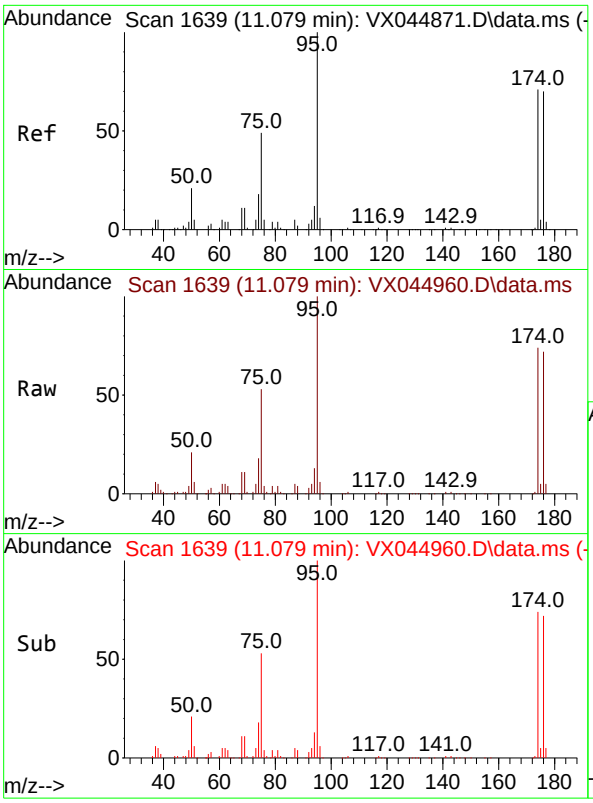


#50
Toluene-d8
Concen: 50.728 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 98 Resp: 211950

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.7	79.1

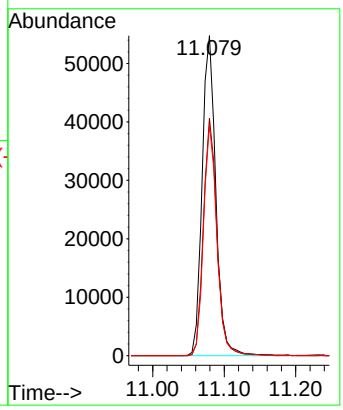




#62
4-Bromofluorobenzene
Concen: 51.666 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 95 Resp: 7277

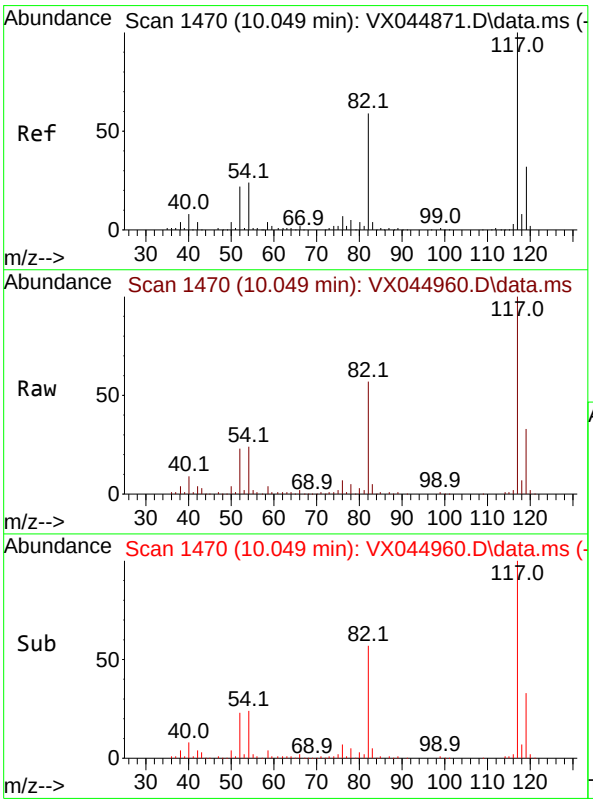
Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	142.6
176	70.6	0.0	141.6



Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations
APPROVED

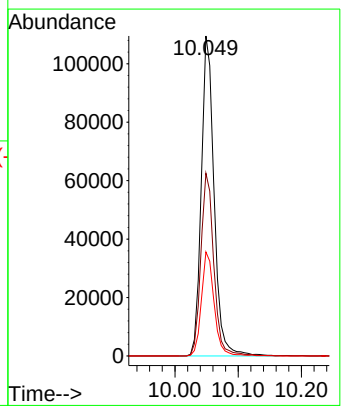
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

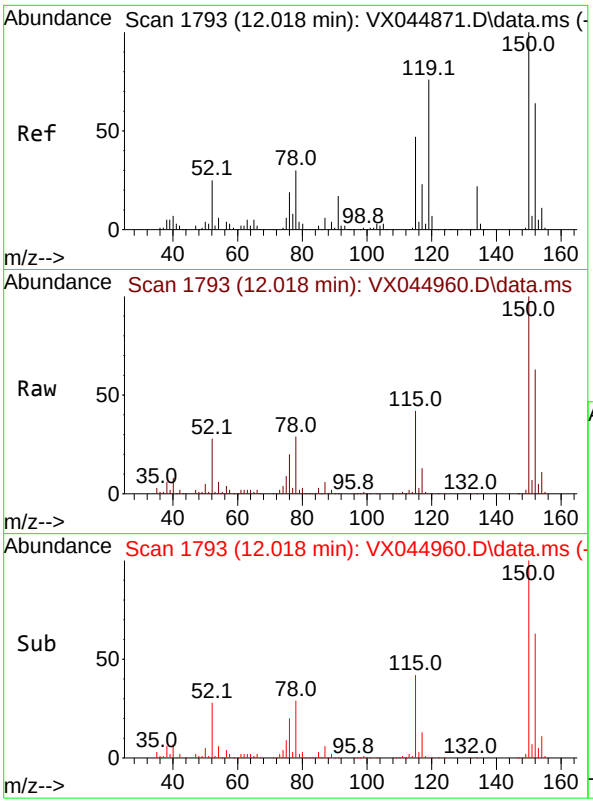


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion:117 Resp: 154821

Ion	Ratio	Lower	Upper
117	100		
82	57.1	47.5	71.3
119	32.5	25.4	38.0

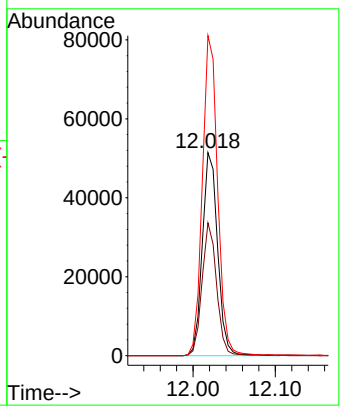




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion:152 Resp: 6654

Ion	Ratio	Lower	Upper
152	100		
115	62.3	43.4	130.1
150	157.5	0.0	350.4



Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

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: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG No.: Q1352

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

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

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

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

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.839	0.846	0.847	0.808	0.807	0.814	0.827	2.3
1,1-Dichloroethene	0.647	0.639	0.661	0.630	0.632	0.657	0.644	2
2-Butanone	0.422	0.472	0.504	0.506	0.477	0.487	0.478	6.4
Carbon Tetrachloride	0.457	0.466	0.478	0.453	0.445	0.459	0.460	2.4
Chloroform	1.167	1.209	1.268	1.169	1.153	1.208	1.196	3.5
Benzene	1.370	1.488	1.577	1.470	1.429	1.453	1.465	4.7
1,2-Dichloroethane	0.417	0.465	0.502	0.472	0.462	0.482	0.467	6.1
Trichloroethene	0.293	0.340	0.367	0.335	0.332	0.343	0.335	7.2
Tetrachloroethene	0.306	0.311	0.343	0.310	0.307	0.314	0.315	4.4
Chlorobenzene	0.969	1.093	1.140	1.096	1.071	1.076	1.074	5.3
1,2-Dichloroethane-d4		0.764	0.718	0.723	0.707	0.747	0.732	3.2
Dibromofluoromethane		0.335	0.322	0.320	0.320	0.328	0.325	2
Toluene-d8		1.239	1.249	1.239	1.208	1.212	1.229	1.5
4-Bromofluorobenzene		0.404	0.410	0.431	0.415	0.412	0.414	2.5

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

Response Factor Report MSVOA_X2

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

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

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

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

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

(#) = Out of Range

ICAL Form

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	134134	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	254149	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	218570	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	90733	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	1939m	1.031	ug/l		
3) Chloromethane	1.307	50	2571	1.123	ug/l		94
4) Vinyl Chloride	1.374	62	2252	1.015	ug/l		96
6) Chloroethane	1.666	64	1341	2.592	ug/l		91
7) Trichlorofluoromethane	1.874	101	2849	1.016	ug/l		88
8) Diethyl Ether	2.130	74	1032	1.014	ug/l	#	37
9) 1,1,2-Trichlorotrifluo...	2.325	101	1564	0.923	ug/l	#	88
12) 1,1-Dichloroethene	2.307	96	1737	1.005	ug/l		85
14) Allyl chloride	2.654	41	3164	1.013	ug/l		90
15) Acrylonitrile	3.069	53	4527	4.655	ug/l		95
16) Acetone	2.380	43	4095	5.188	ug/l		92
17) Carbon Disulfide	2.502	76	4531	0.956	ug/l	#	88
18) Methyl Acetate	2.697	43	2367	0.950	ug/l		95
19) Methyl tert-butyl Ether	3.117	73	5206	0.946	ug/l	#	87
20) Methylene Chloride	2.782	84	2005	1.037	ug/l	#	90
21) trans-1,2-Dichloroethene	3.087	96	1631	0.959	ug/l		96
22) Diisopropyl ether	3.764	45	5496	0.930	ug/l	#	75
23) Vinyl Acetate	3.727	43	20663	4.288	ug/l		99
24) 1,1-Dichloroethane	3.605	63	3099	0.937	ug/l	#	93
25) 2-Butanone	4.587	43	5660	4.416	ug/l		93
26) 2,2-Dichloropropane	4.471	77	2566	0.978	ug/l		76
27) cis-1,2-Dichloroethene	4.489	96	1825	0.893	ug/l		91
28) Bromochloromethane	4.910	49	1702	1.071	ug/l	#	75
29) Tetrahydrofuran	5.026	42	4014	4.716	ug/l		99
30) Chloroform	5.093	83	3132	0.976	ug/l		94
32) 1,1,1-Trichloroethane	5.379	97	2721	1.000	ug/l	#	50
36) 1,1-Dichloropropene	5.684	75	2399	1.006	ug/l		94
37) Ethyl Acetate	4.721	43	2426m	0.915	ug/l		
38) Carbon Tetrachloride	5.666	117	2322	0.994	ug/l	#	74
39) Methylcyclohexane	7.379	83	2589	0.840	ug/l		96
40) Benzene	6.038	78	6963	0.935	ug/l		94
41) Methacrylonitrile	4.958	41	1205m	0.849	ug/l		
42) 1,2-Dichloroethane	6.099	62	2120	0.894	ug/l		84
43) Isopropyl Acetate	6.355	43	3839	0.897	ug/l	#	88
44) Trichloroethene	7.135	130	1487	0.874	ug/l		76
45) 1,2-Dichloropropane	7.440	63	1746	0.943	ug/l	#	86

ICAL Form

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

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

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

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

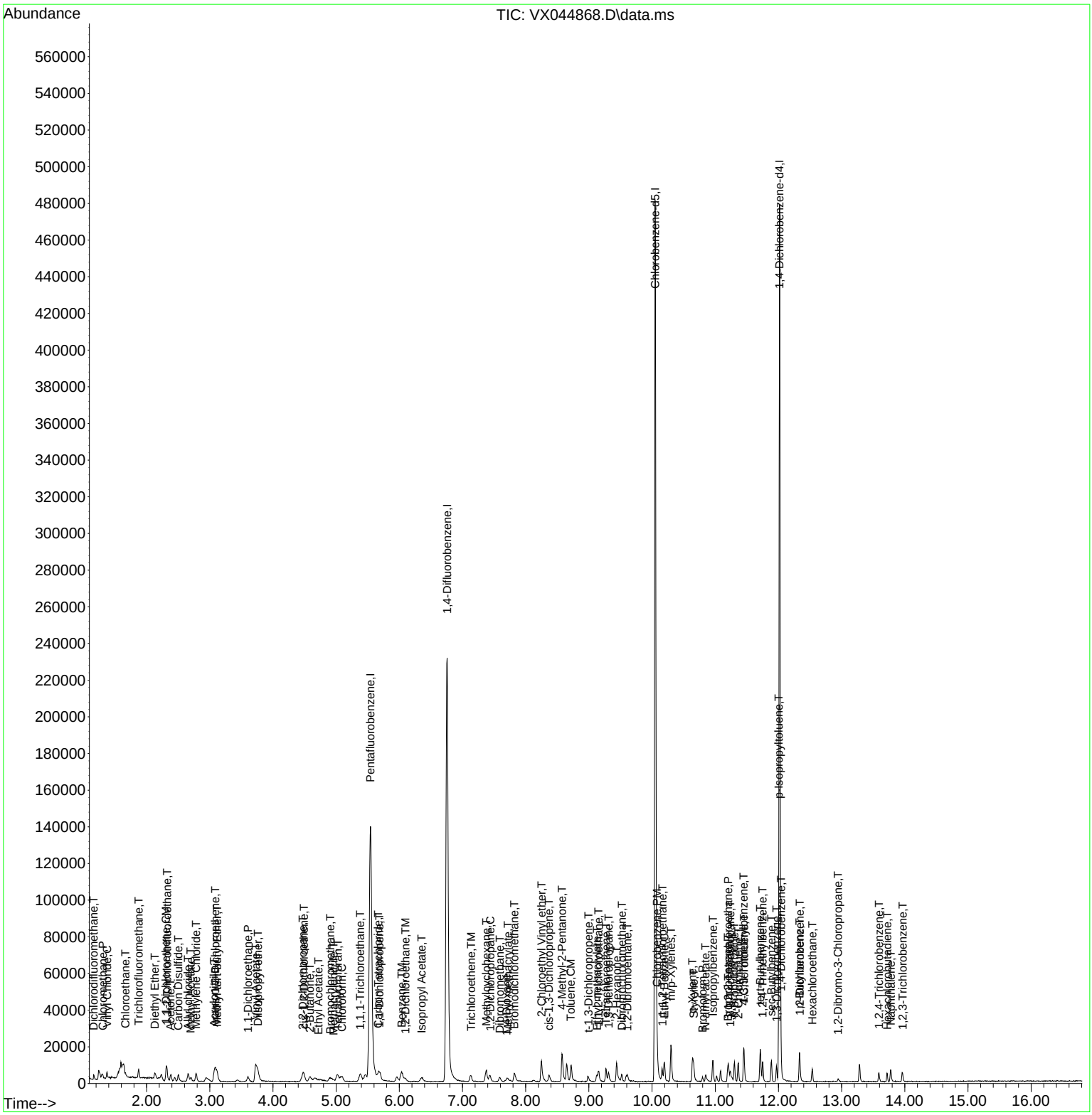
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044868.D
Acq On : 10 Feb 2025 10:25
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

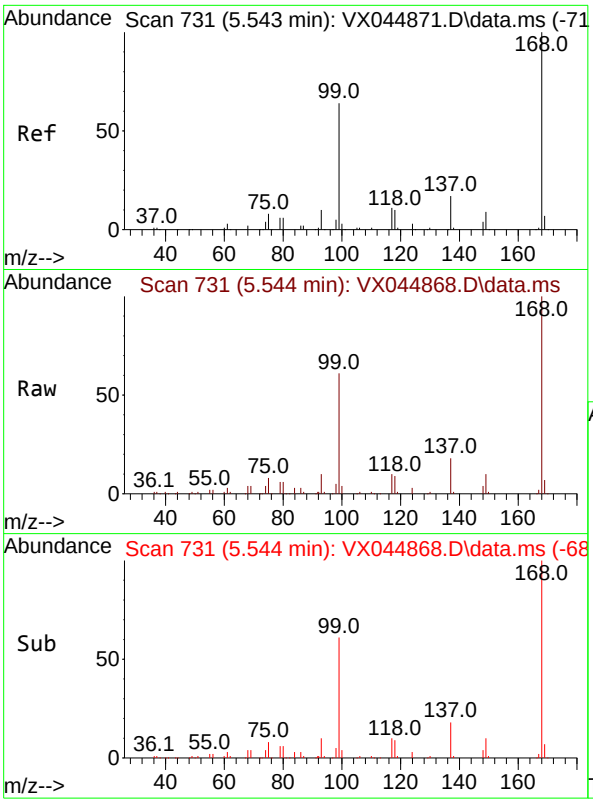
Quant Time: Feb 11 03:33:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

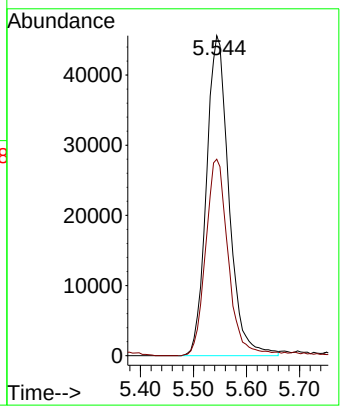




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:168 Resp: 13413

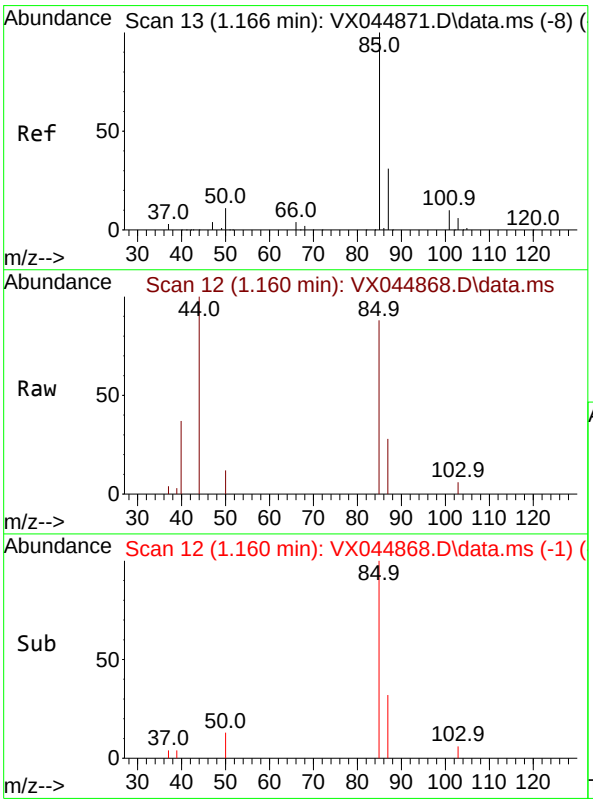
Ion	Ratio	Lower	Upper
168	100		
99	61.4	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

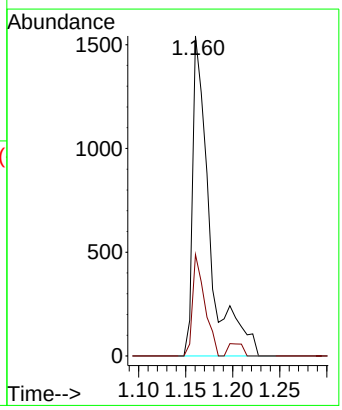
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

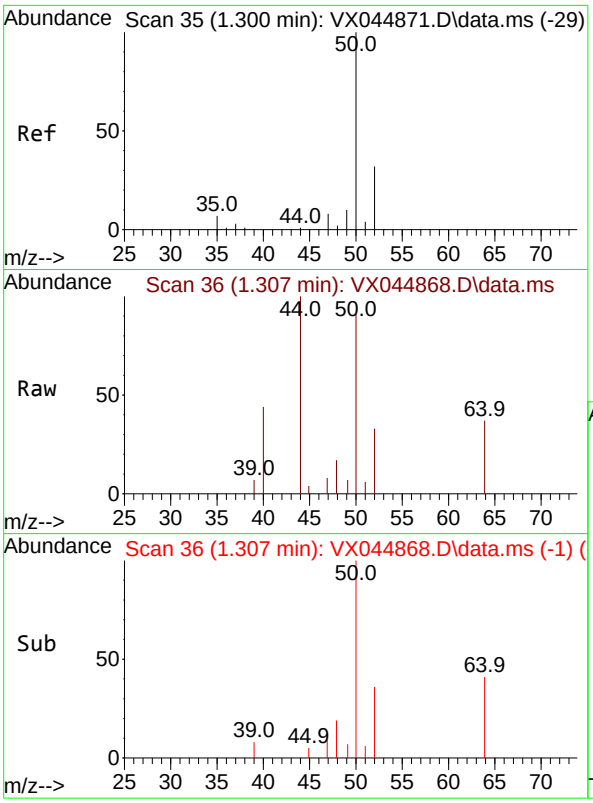


#2
Dichlorodifluoromethane
Concen: 1.031 ug/l m
RT: 1.160 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 85 Resp: 1939

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3

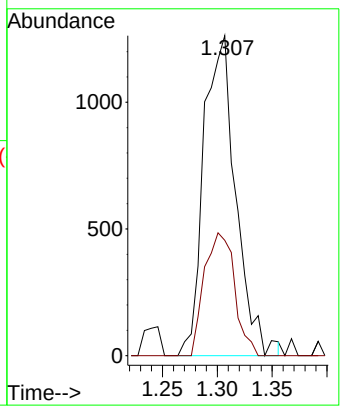




#3
Chloromethane
Concen: 1.123 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 50 Resp: 257

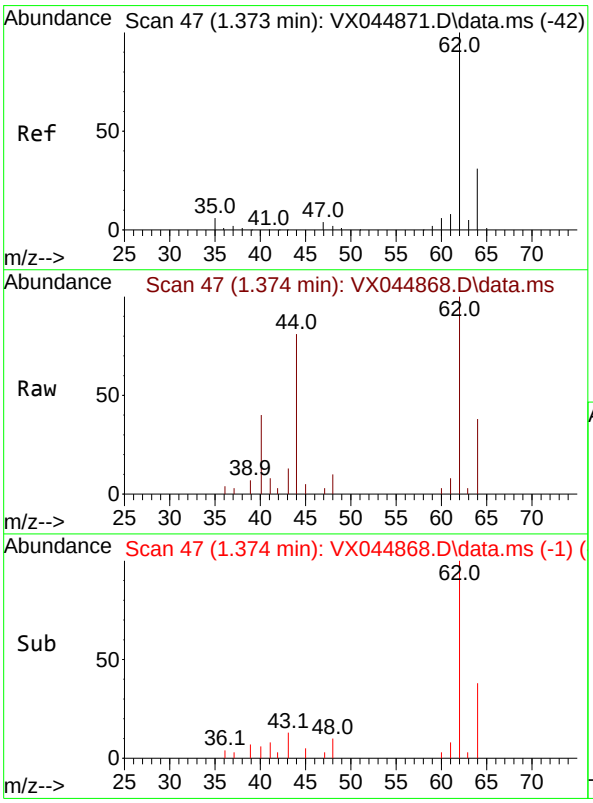
Ion	Ratio	Lower	Upper
50	100		
52	36.0	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

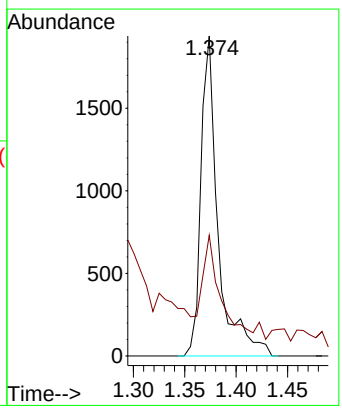
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

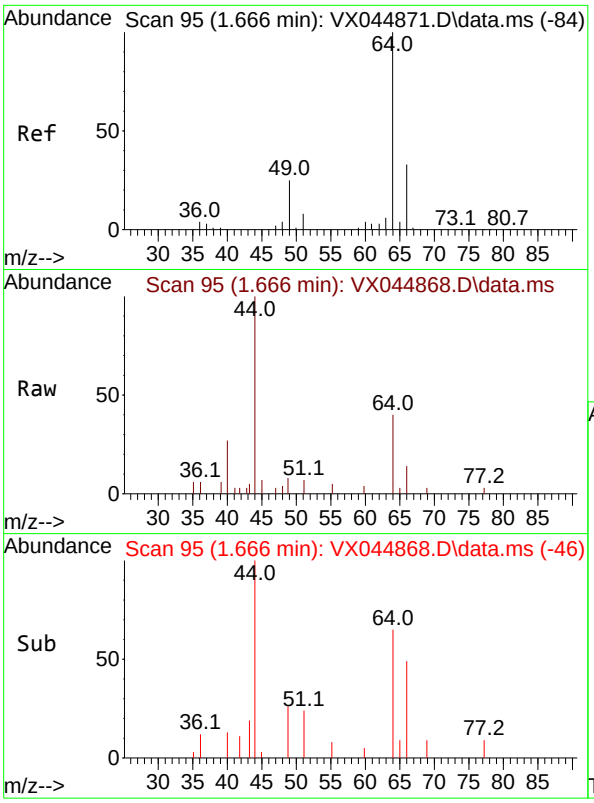


#4
Vinyl Chloride
Concen: 1.015 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 2252

Ion	Ratio	Lower	Upper
62	100		
64	29.4	25.4	38.0

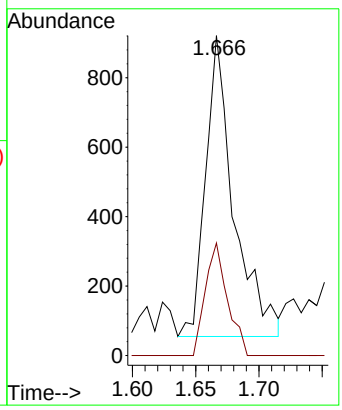




#6
Chloroethane
Concen: 2.592 ug/l
RT: 1.666 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 64 Resp: 134

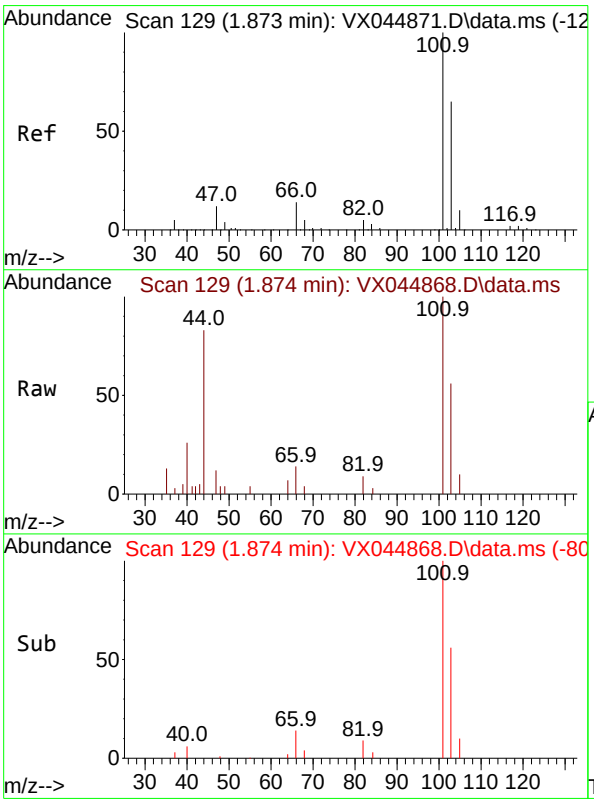
Ion	Ratio	Lower	Upper
64	100		
66	37.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

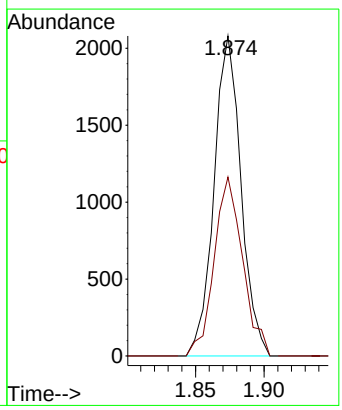
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

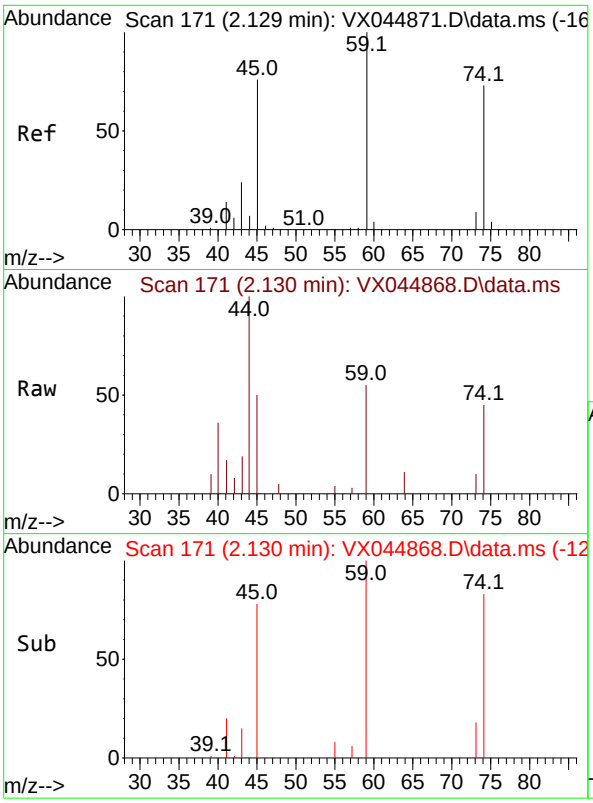


#7
Trichlorofluoromethane
Concen: 1.016 ug/l
RT: 1.874 min Scan# 129
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:101 Resp: 2849

Ion	Ratio	Lower	Upper
101	100		
103	55.9	52.4	78.6





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

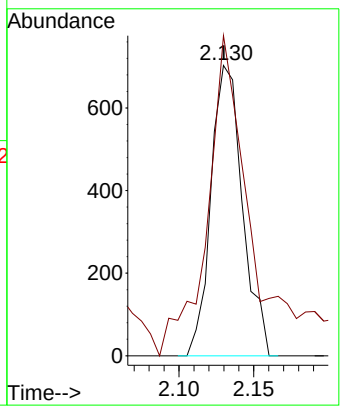
Tgt Ion: 74 Resp: 103

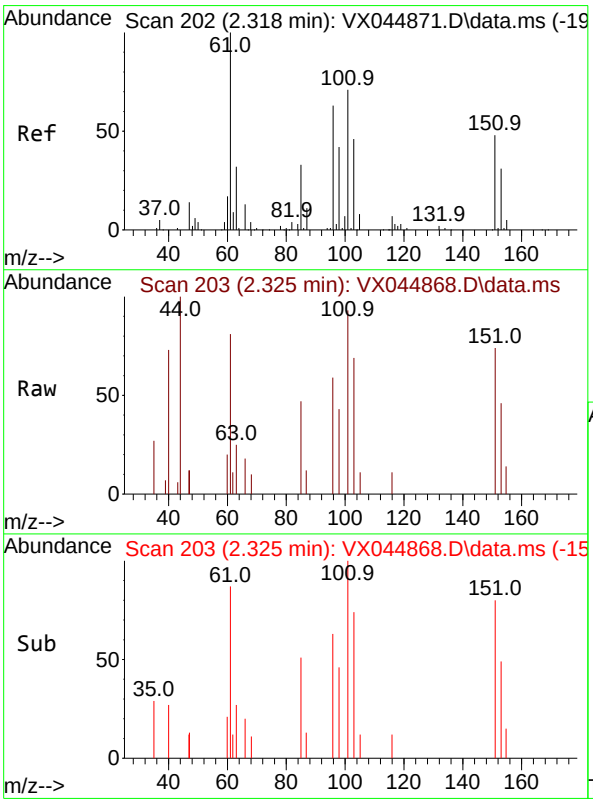
Ion	Ratio	Lower	Upper
74	100		
45	166.1	51.1	153.4#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

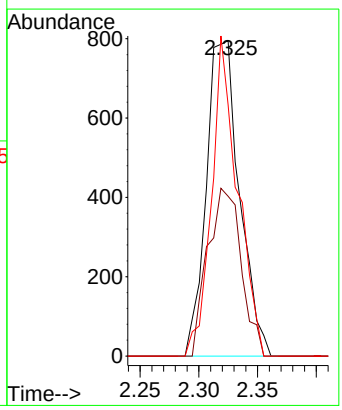


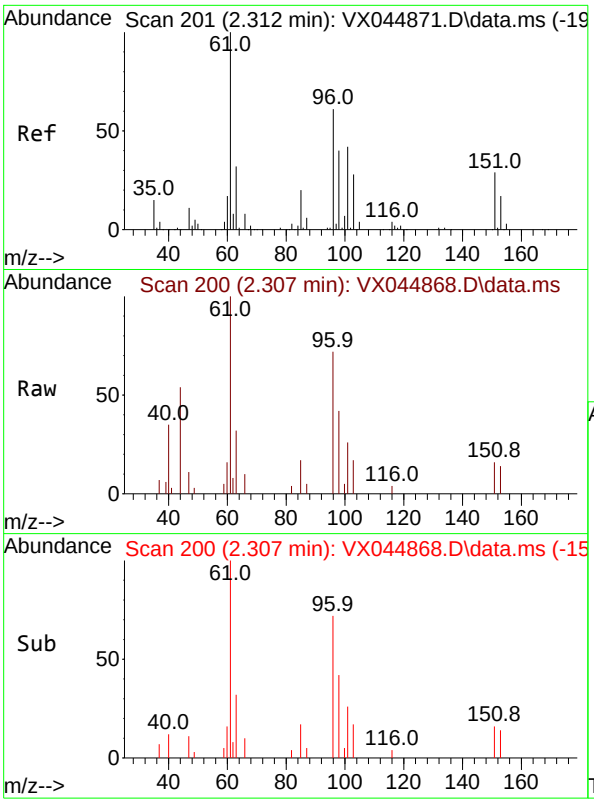


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.923 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:101 Resp: 1564

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

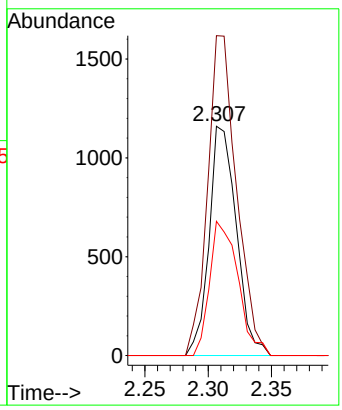




#12
1,1-Dichloroethene
Concen: 1.005 ug/l
RT: 2.307 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 96 Resp: 173

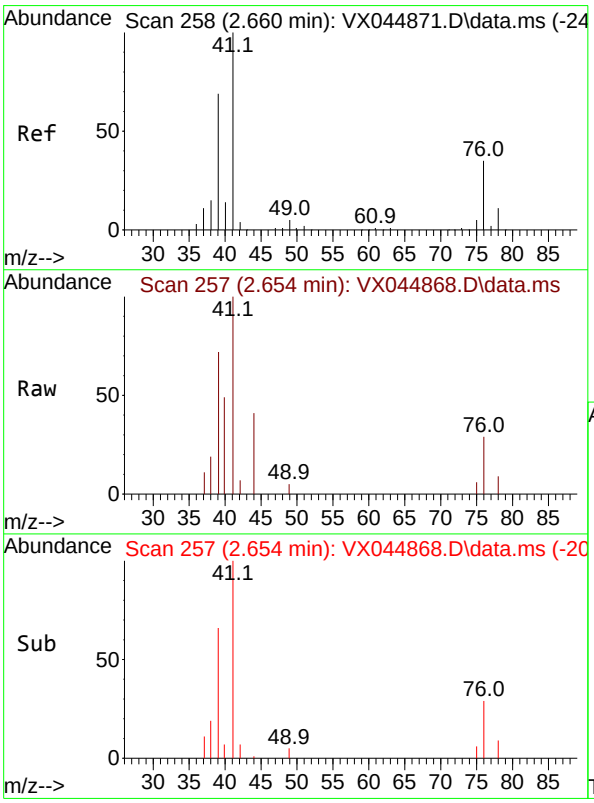
Ion	Ratio	Lower	Upper
96	100		
61	139.5	130.2	195.4
98	58.5	52.2	78.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

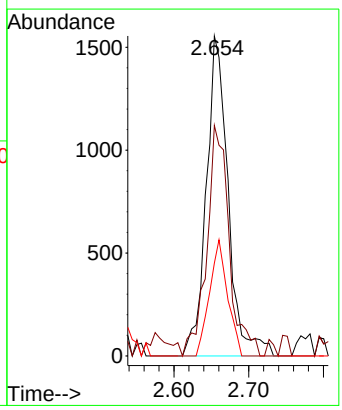
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

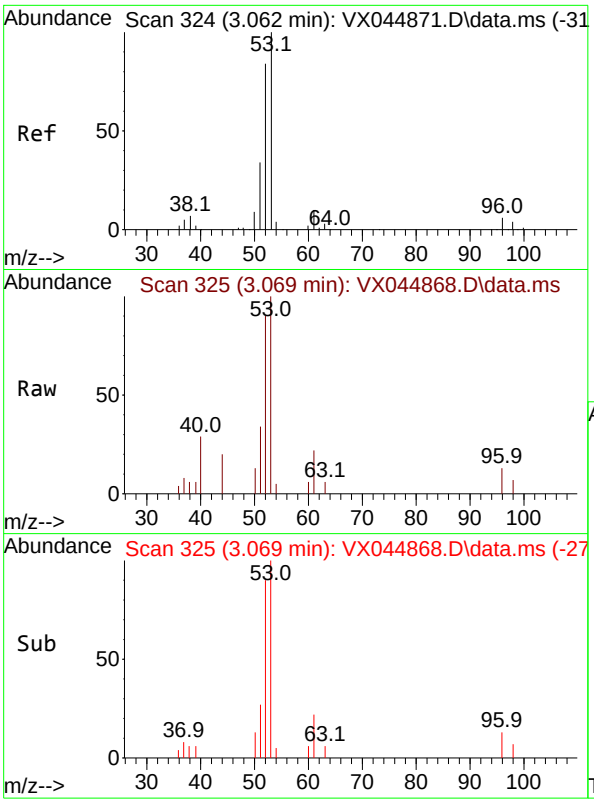


#14
Allyl chloride
Concen: 1.013 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 3164

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

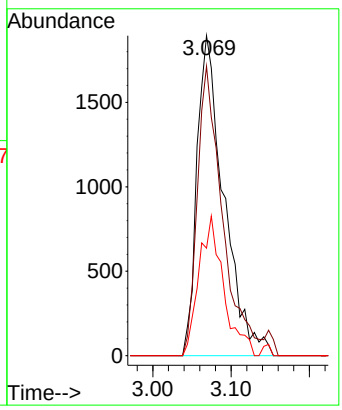




#15
Acrylonitrile
Concen: 4.655 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 53 Resp: 452

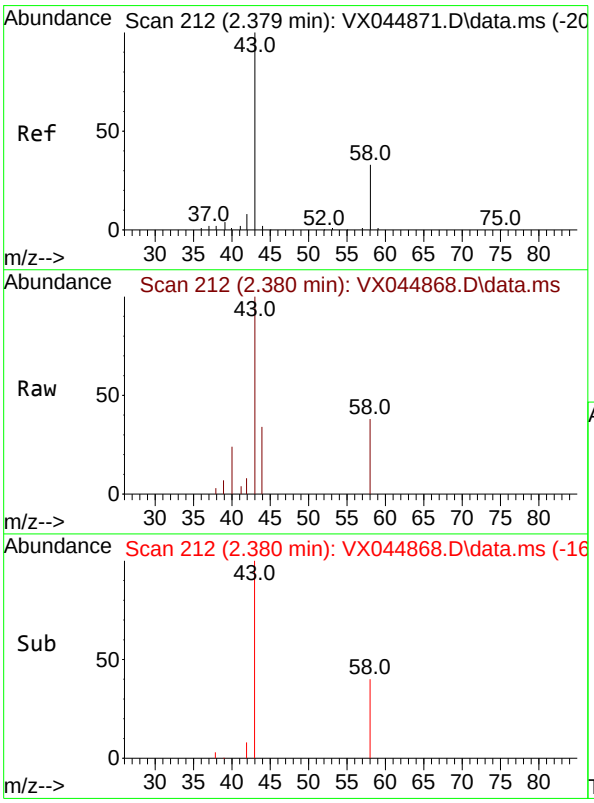
Ion	Ratio	Lower	Upper
53	100		
52	84.7	65.0	97.6
51	40.0	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

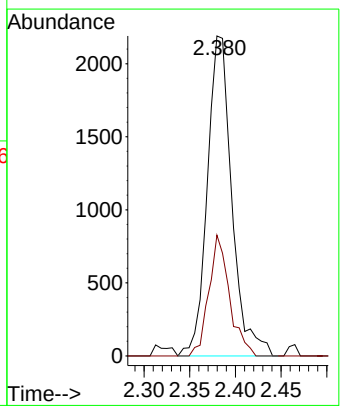
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

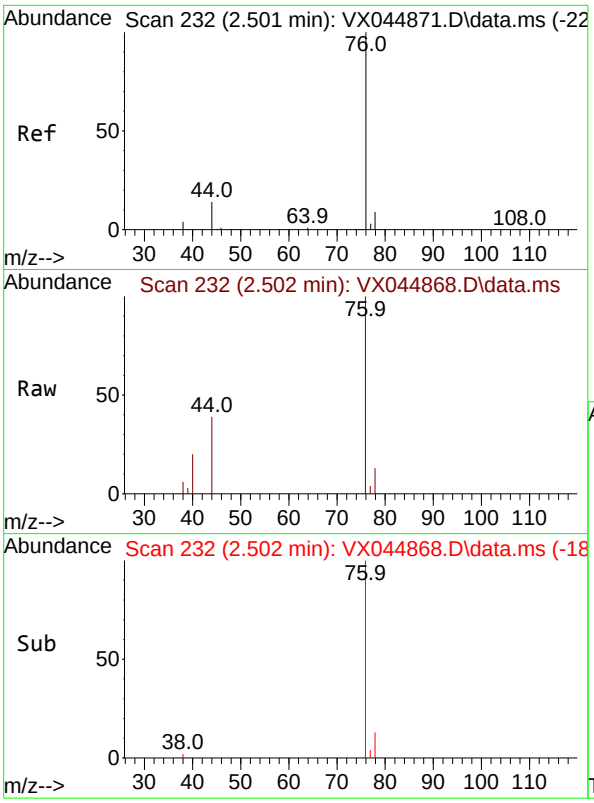


#16
Acetone
Concen: 5.188 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 4095

Ion	Ratio	Lower	Upper
43	100		
58	37.8	26.5	39.7

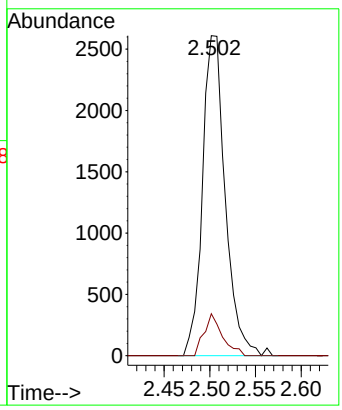




#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 76 Resp: 453

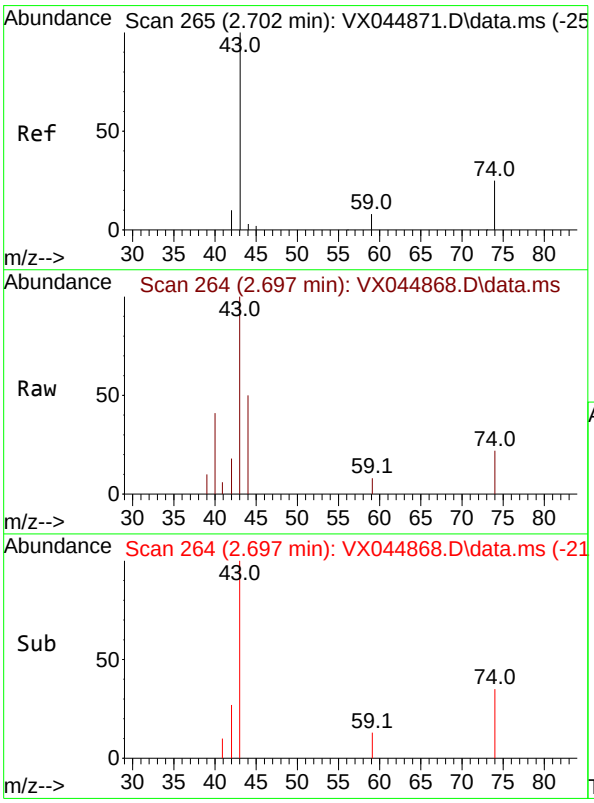
Ion	Ratio	Lower	Upper
76	100		
78	13.1	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

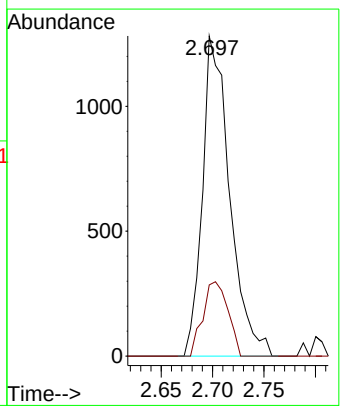
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

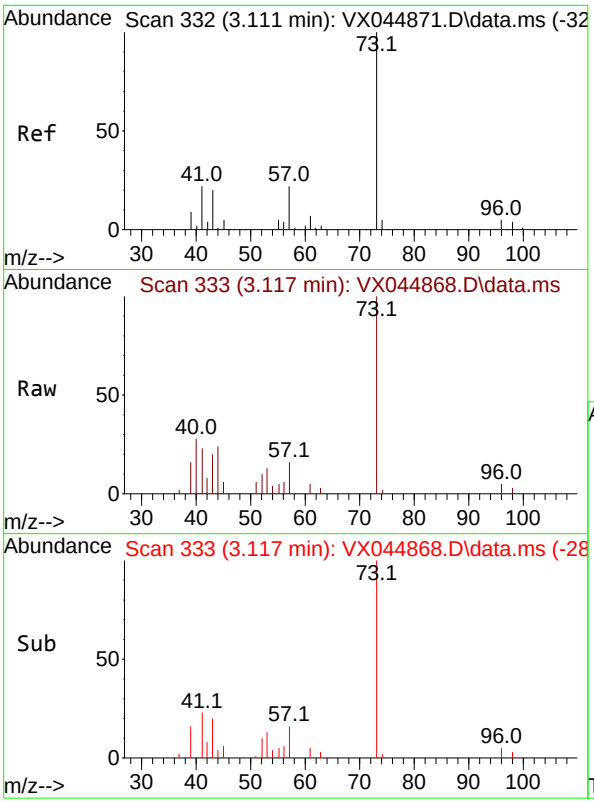


#18
Methyl Acetate
Concen: 0.950 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2367

Ion	Ratio	Lower	Upper
43	100		
74	21.3	18.9	28.3

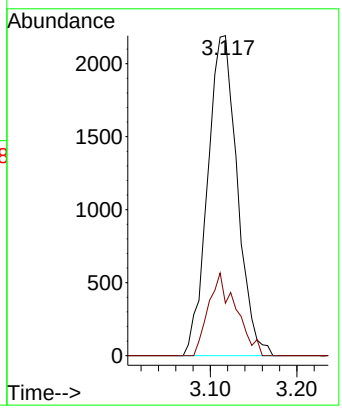




#19
Methyl tert-butyl Ether
Concen: 0.946 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 73 Resp: 520

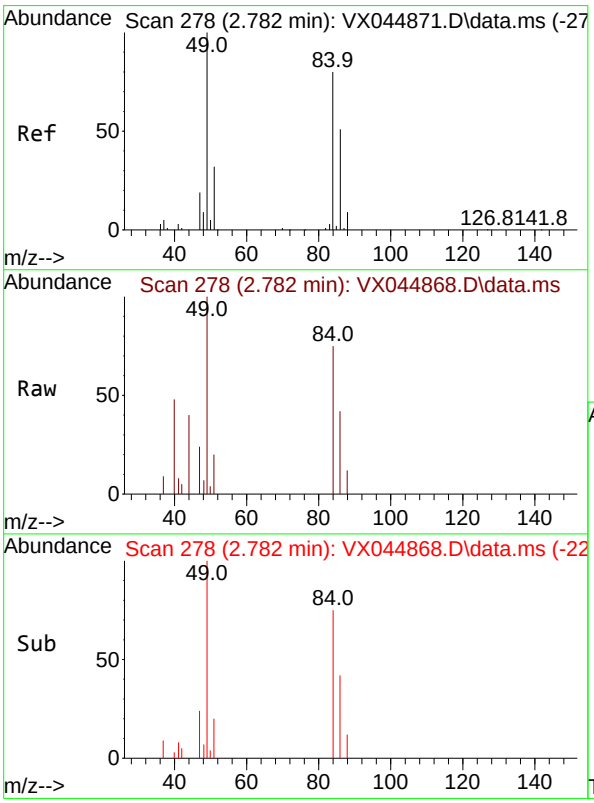
Ion	Ratio	Lower	Upper
73	100		
57	16.4	17.9	26.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

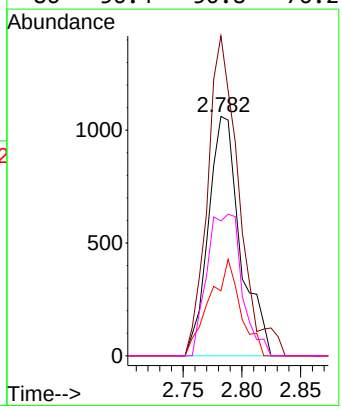
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

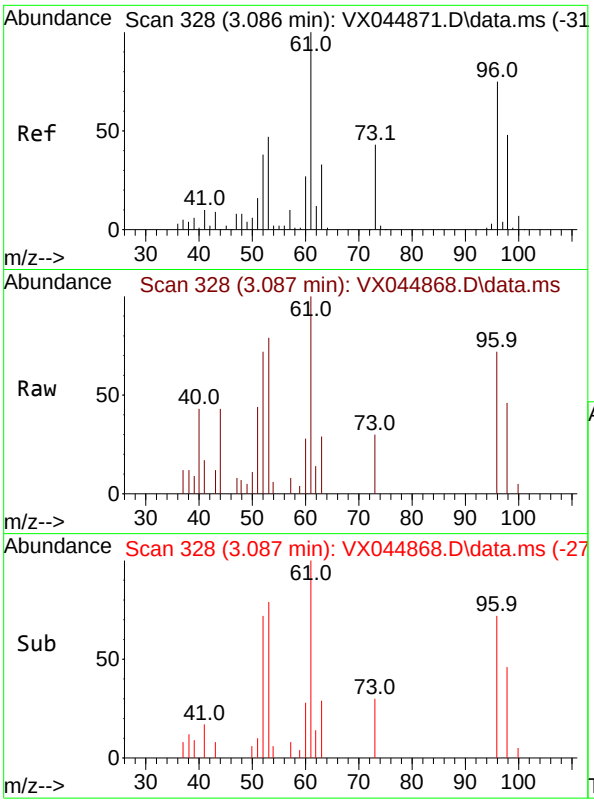


#20
Methylene Chloride
Concen: 1.037 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 84 Resp: 2005

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

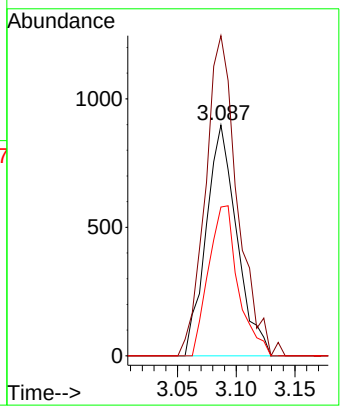




#21
trans-1,2-Dichloroethene
Concen: 0.959 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 96 Resp: 163

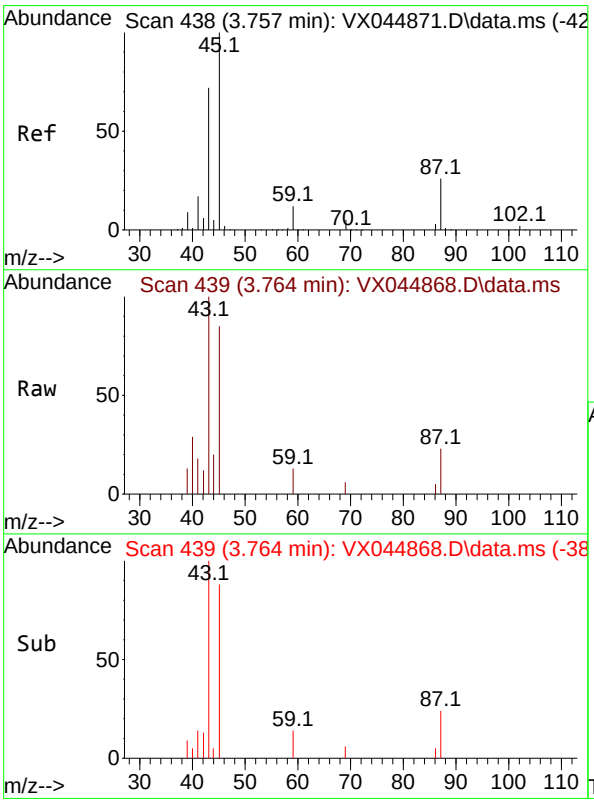
Ion	Ratio	Lower	Upper
96	100		
61	138.8	106.0	159.0
98	64.5	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

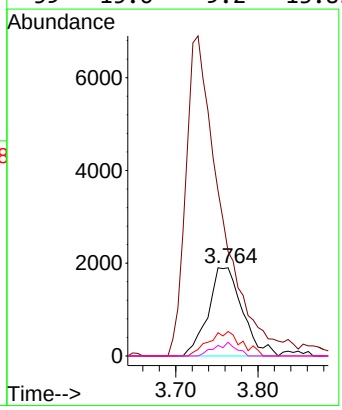
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

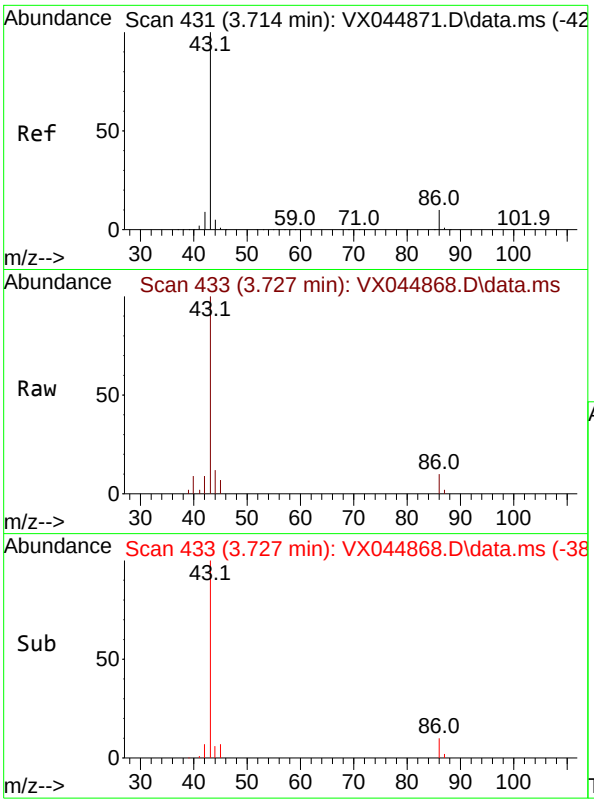


#22
Diisopropyl ether
Concen: 0.930 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 45 Resp: 5496

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





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

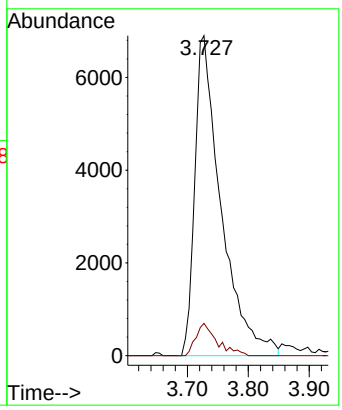
Tgt Ion: 43 Resp: 2066

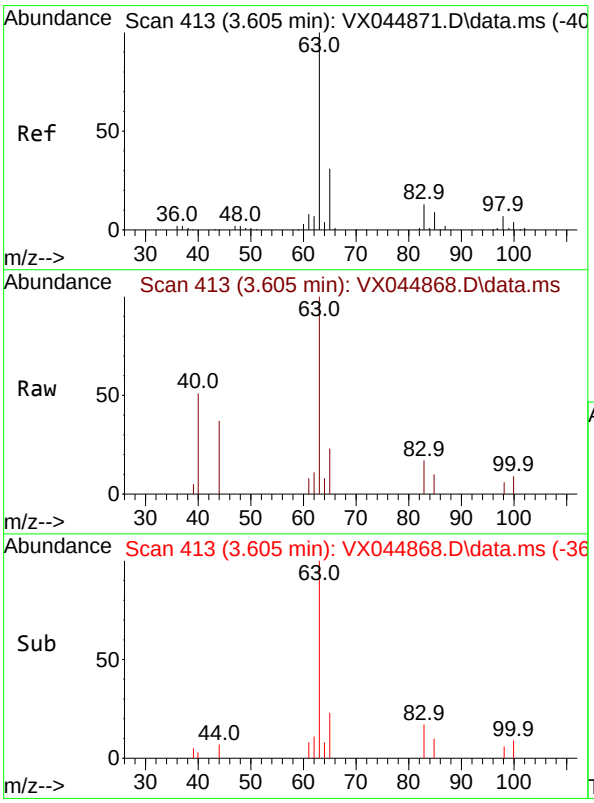
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

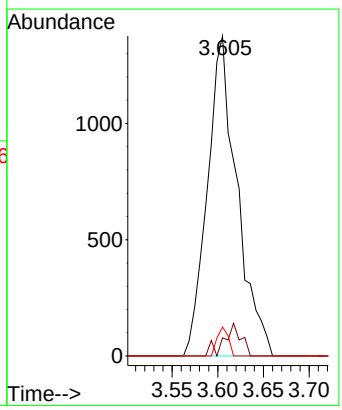


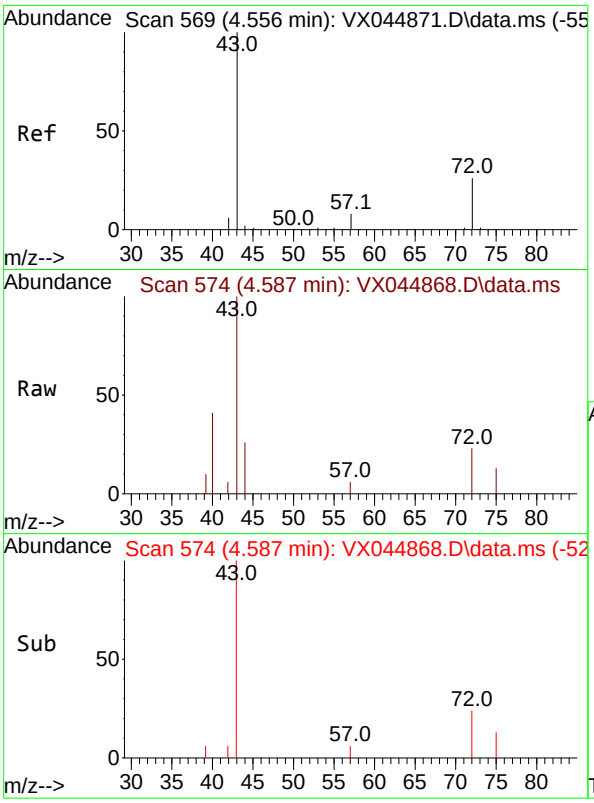


#24
1,1-Dichloroethane
Concen: 0.937 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 3099

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

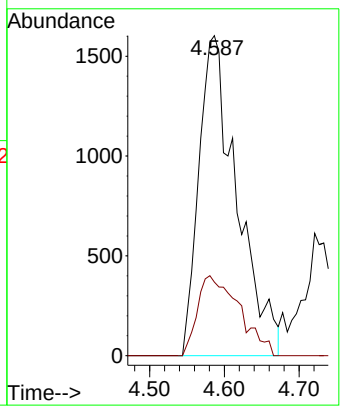




#25
2-Butanone
Concen: 4.416 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 566

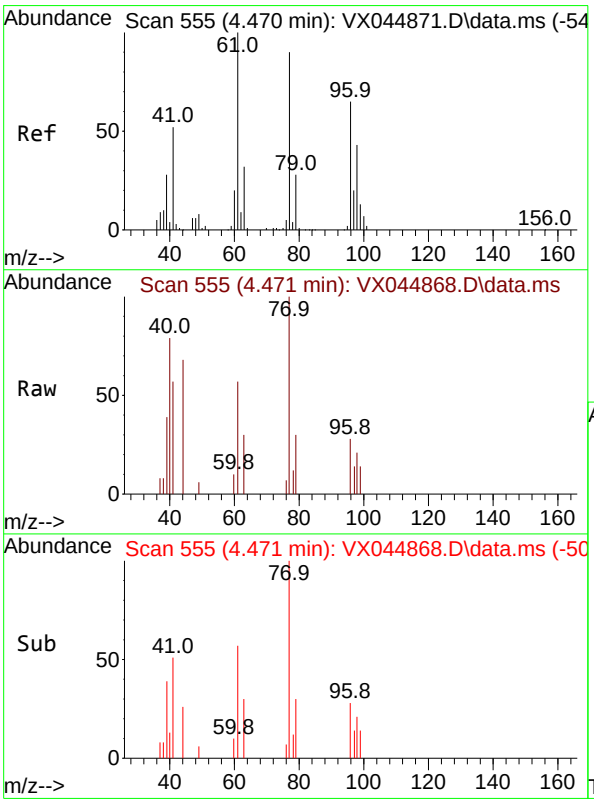
Ion	Ratio	Lower	Upper
43	100		
72	23.0	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

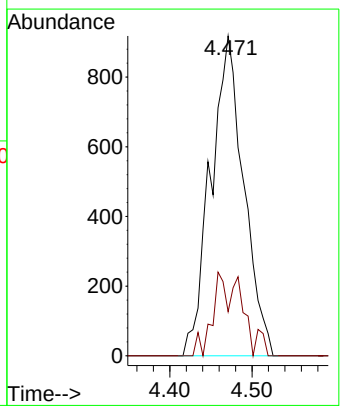
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

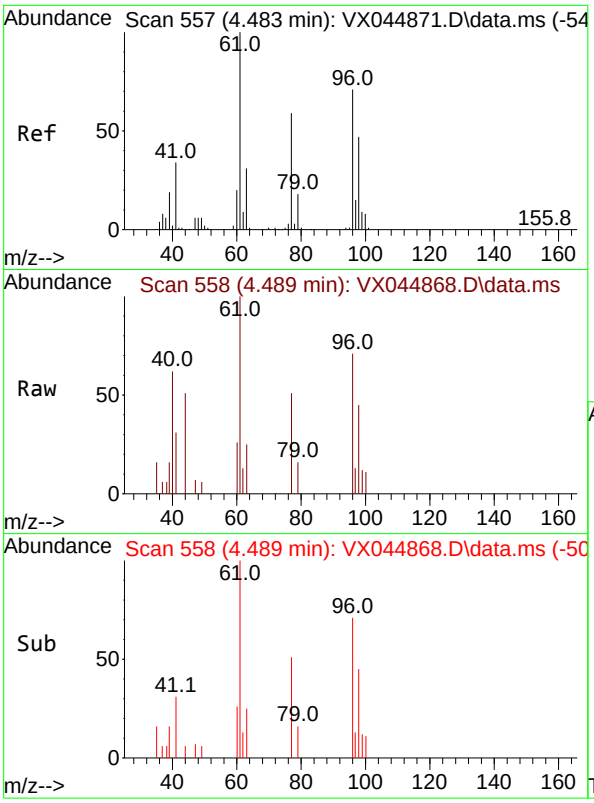


#26
2,2-Dichloropropane
Concen: 0.978 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 77 Resp: 2566

Ion	Ratio	Lower	Upper
77	100		
97	11.8	11.8	35.3

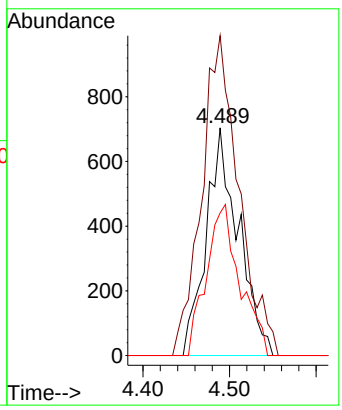




#27
cis-1,2-Dichloroethene
Concen: 0.893 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 96 Resp: 182

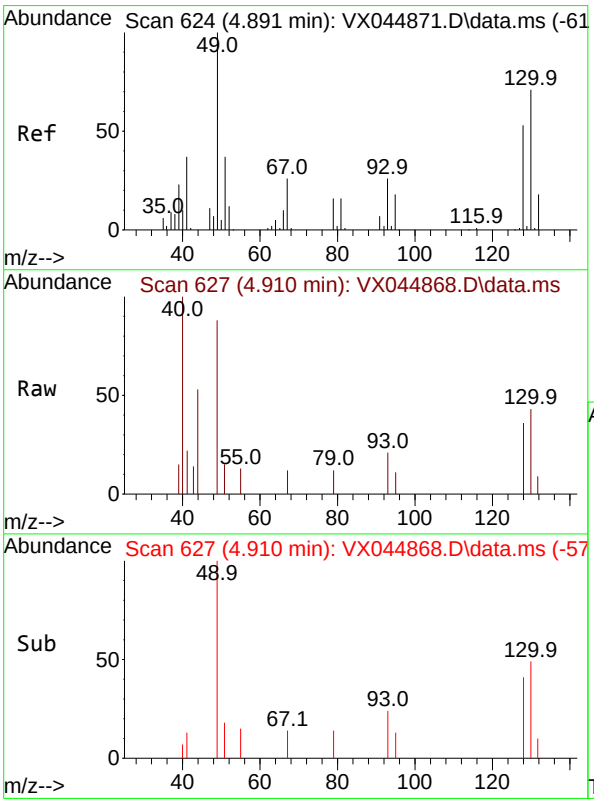
Ion	Ratio	Lower	Upper
96	100		
61	161.6	0.0	294.0
98	68.9	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

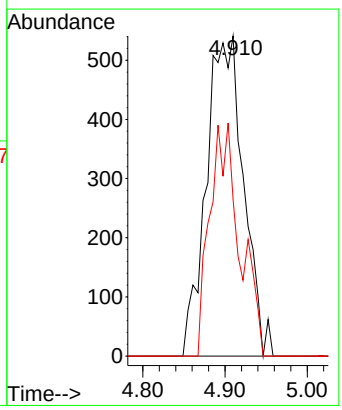
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

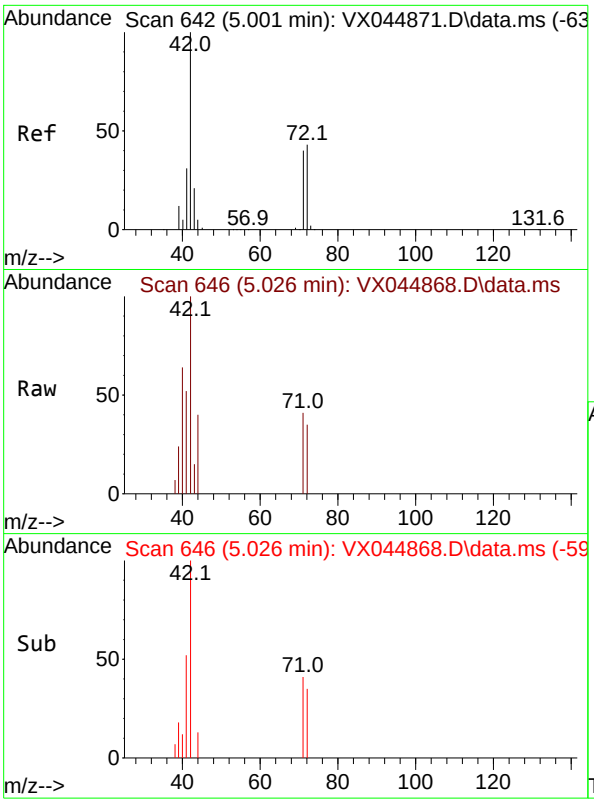


#28
Bromochloromethane
Concen: 1.071 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 49 Resp: 1702

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





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

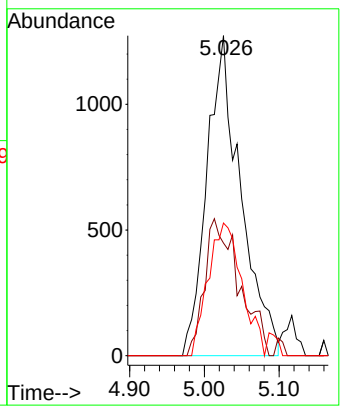
Tgt Ion: 42 Resp: 401

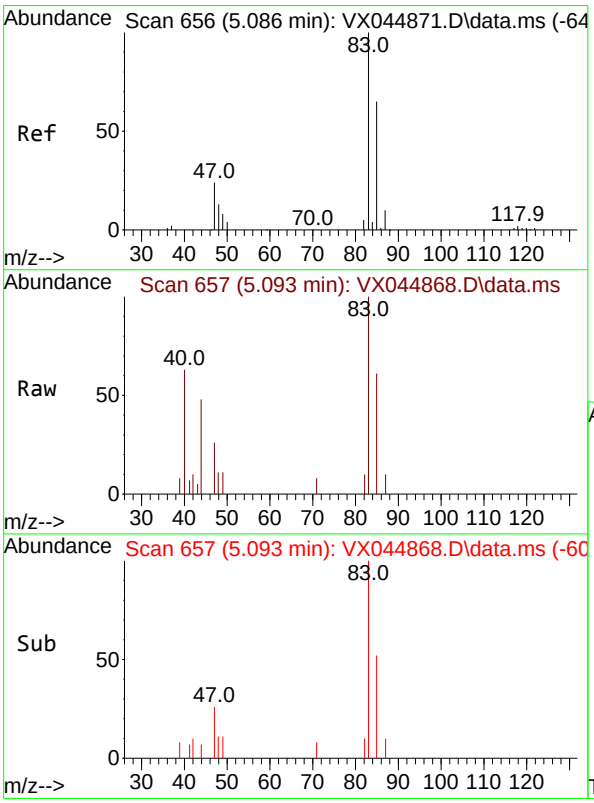
Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.0	52.4
71	41.3	32.6	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

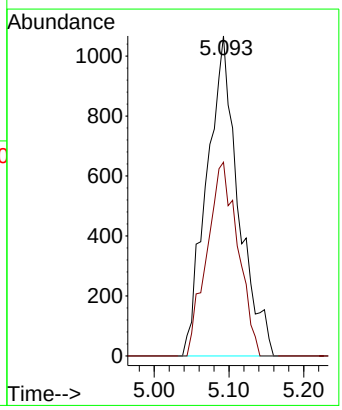


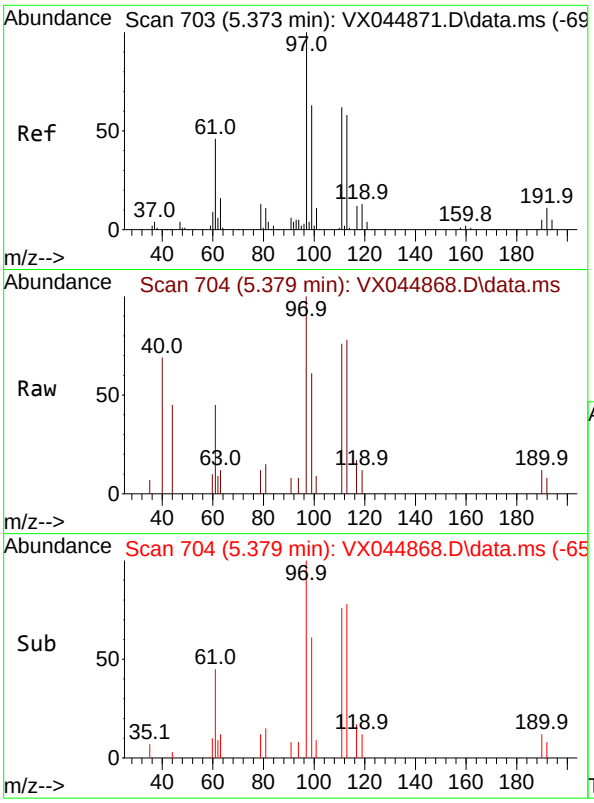


#30
Chloroform
Concen: 0.976 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 3132

Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.1	78.1





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

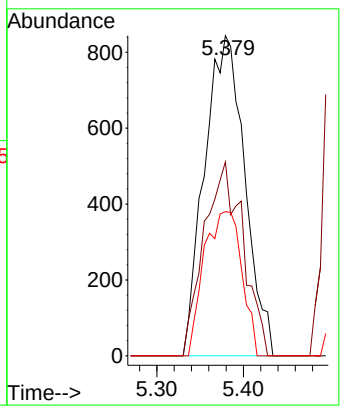
Tgt Ion: 97 Resp: 272

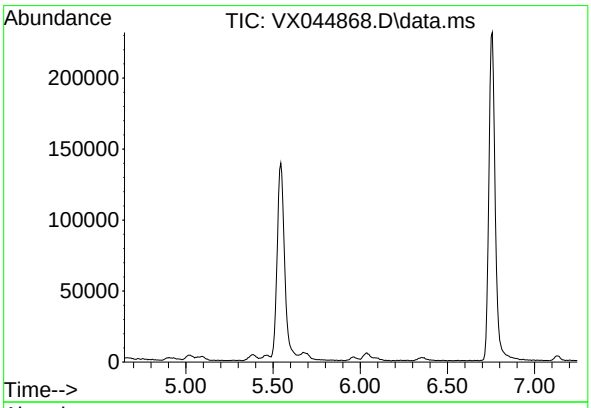
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6
61	42.2	36.6	55.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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



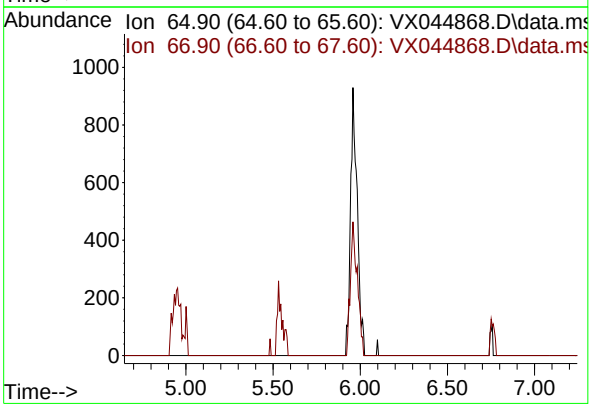


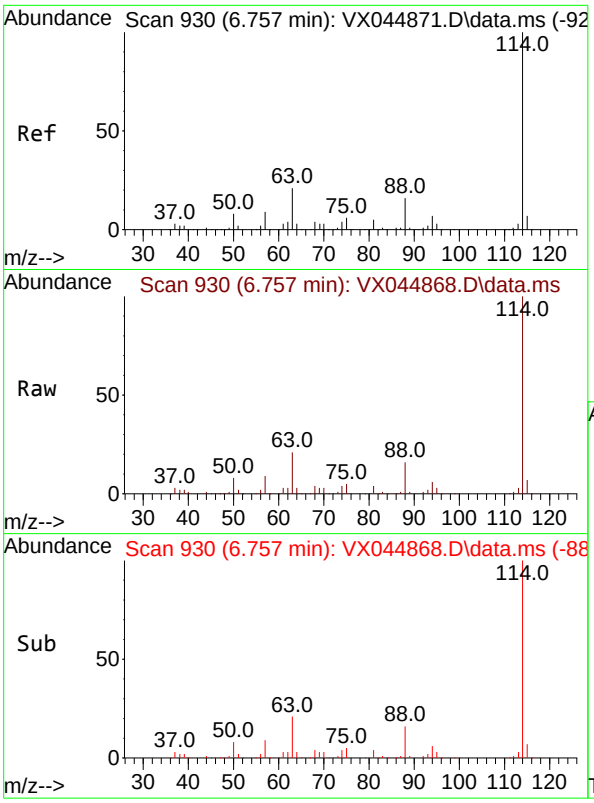
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

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

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	54.1

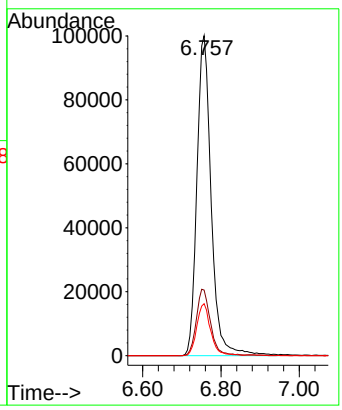




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:114 Resp: 25414

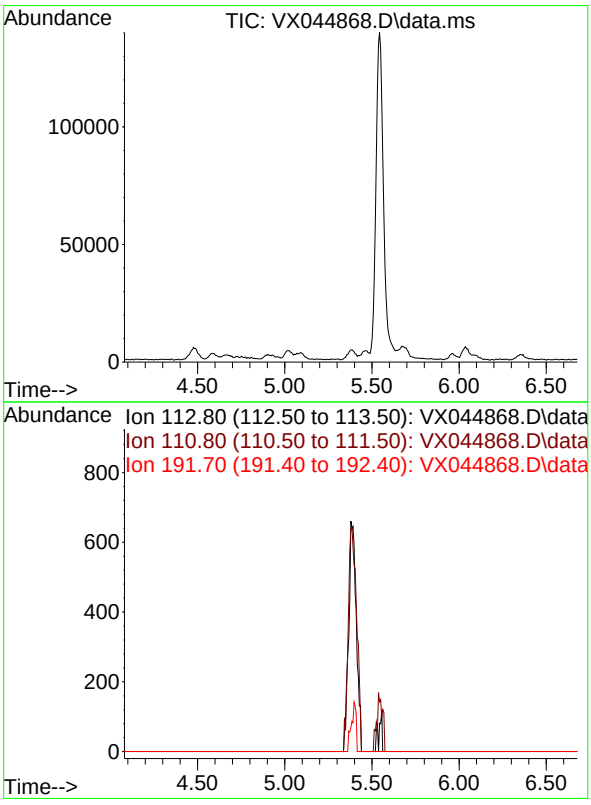
Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.4
88	16.3	0.0	31.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

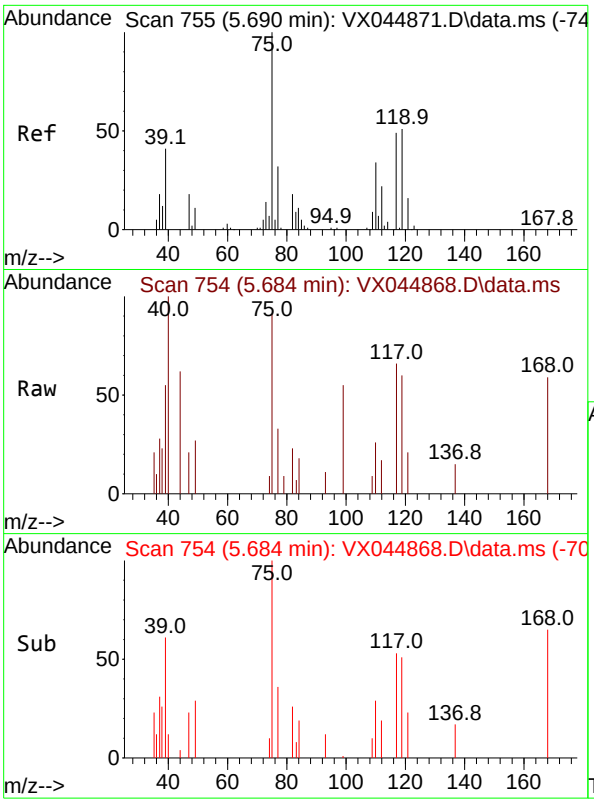


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.38 min

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

Tgt Ion: 113

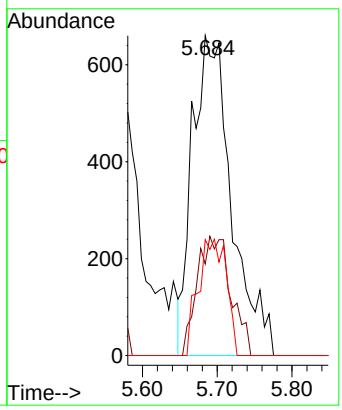
Sig	Exp Ratio
113	100
111	104.4
192	18.0



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

Tgt Ion: 75 Resp: 239

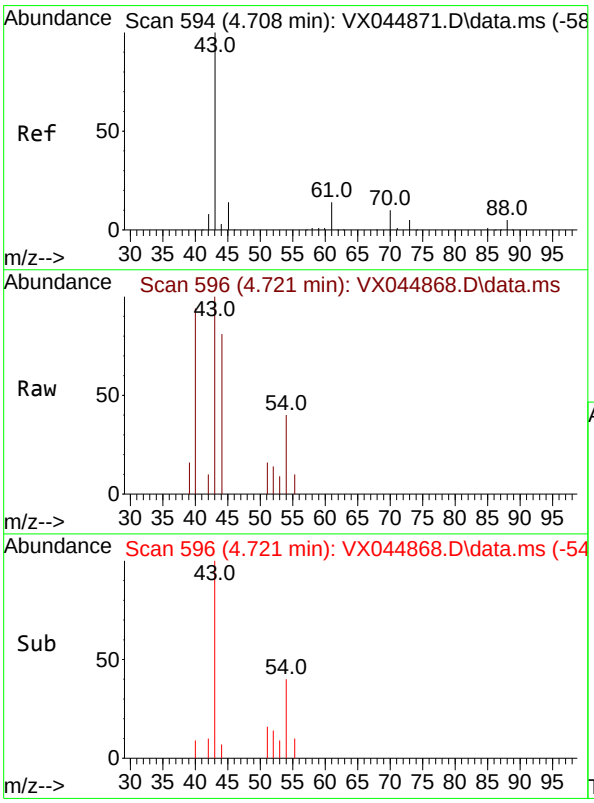
Ion	Ratio	Lower	Upper
75	100		
110	32.1	17.2	51.6
77	26.3	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

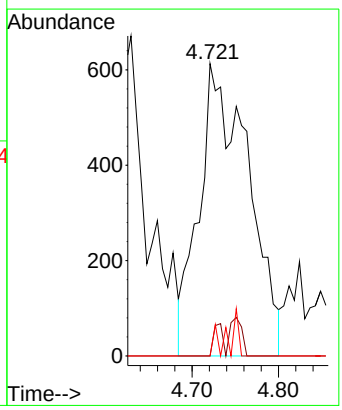
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

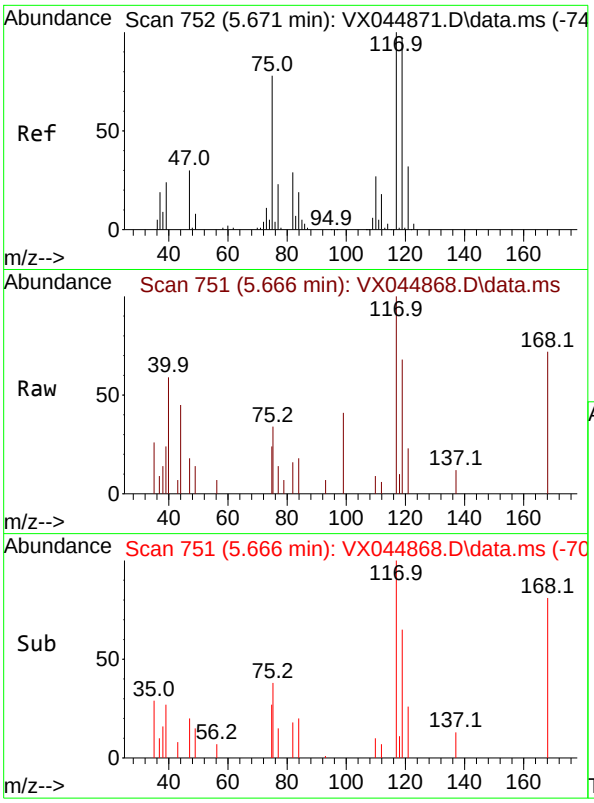


#37
Ethyl Acetate
Concen: 0.915 ug/l m
RT: 4.721 min Scan# 596
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2426

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

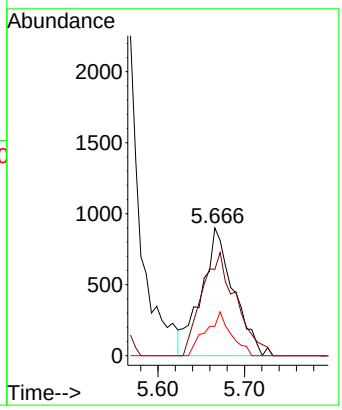




#38
Carbon Tetrachloride
Concen: 0.994 ug/l
RT: 5.666 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 232

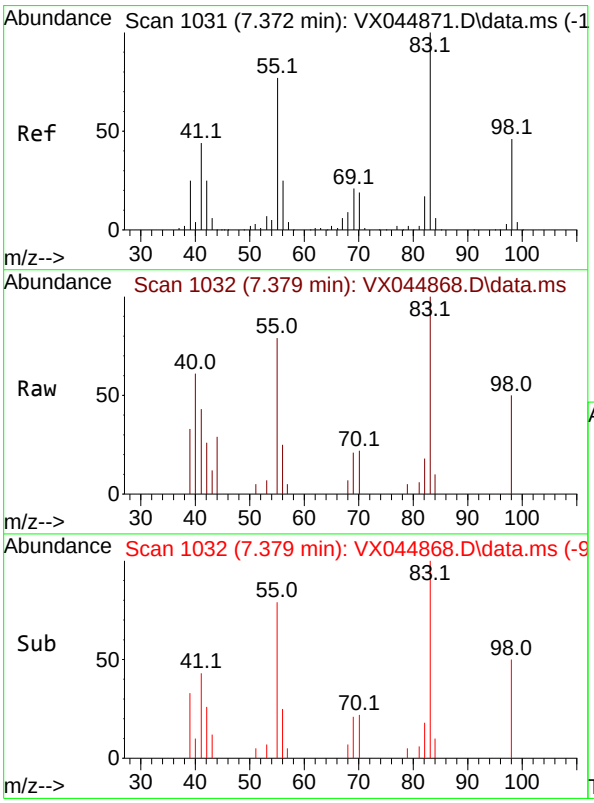
Ion	Ratio	Lower	Upper
117	100		
119	67.5	77.5	116.3#
121	23.0	25.6	38.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

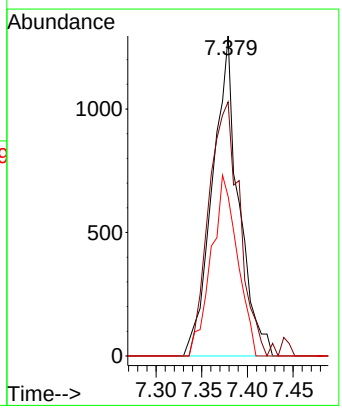
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

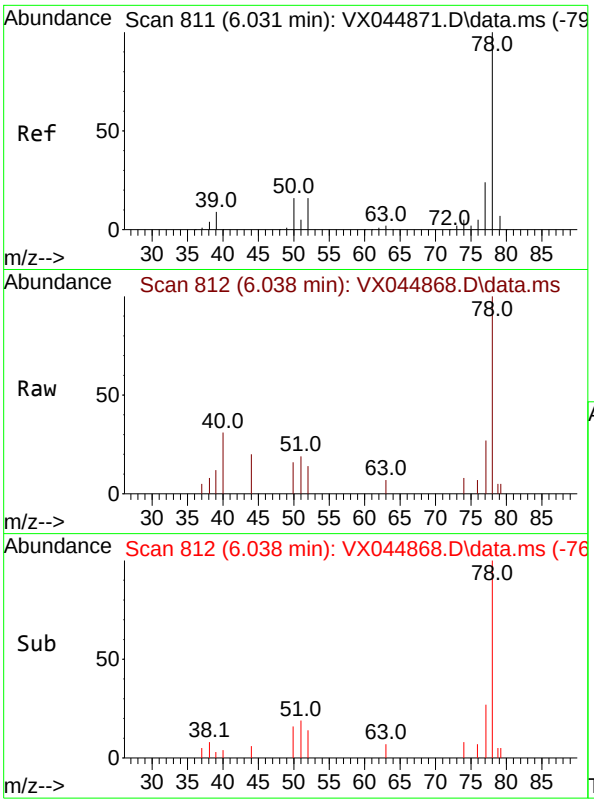


#39
Methylcyclohexane
Concen: 0.840 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 2589

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

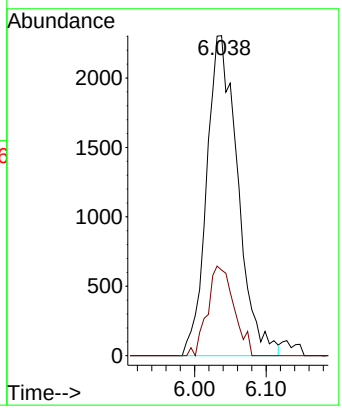




#40
Benzene
Concen: 0.935 ug/l
RT: 6.038 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 78 Resp: 696

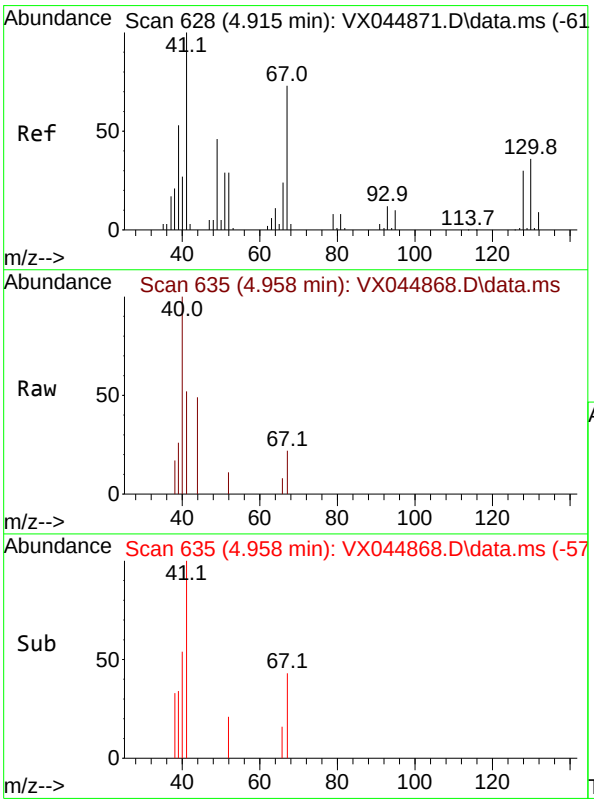
Ion	Ratio	Lower	Upper
78	100		
77	26.8	19.0	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

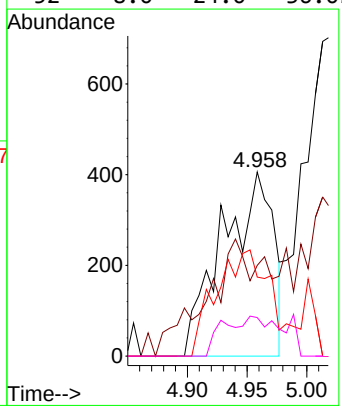
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

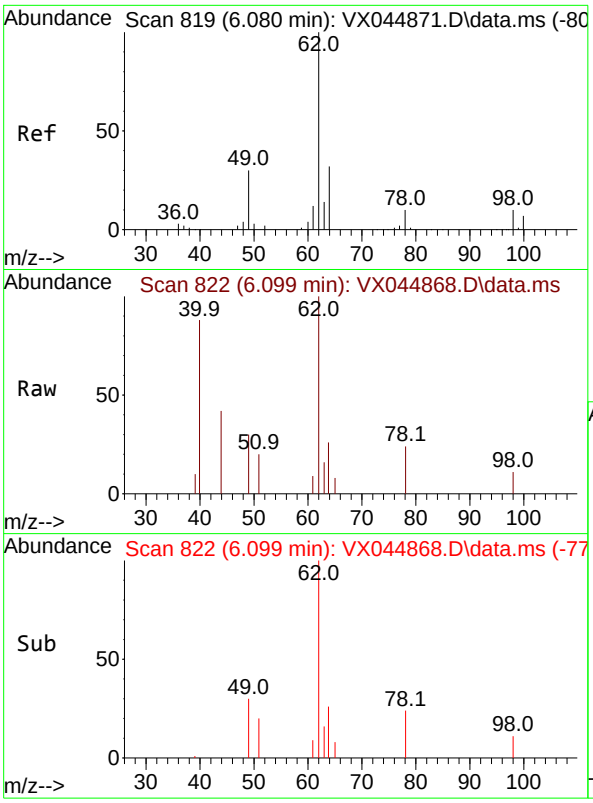


#41
Methacrylonitrile
Concen: 0.849 ug/l m
RT: 4.958 min Scan# 635
Delta R.T. 0.043 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 1205

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

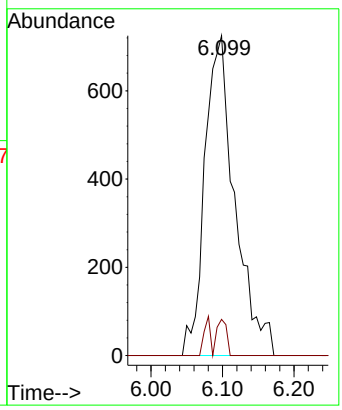




#42
1,2-Dichloroethane
Concen: 0.894 ug/l
RT: 6.099 min Scan# 8
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 212

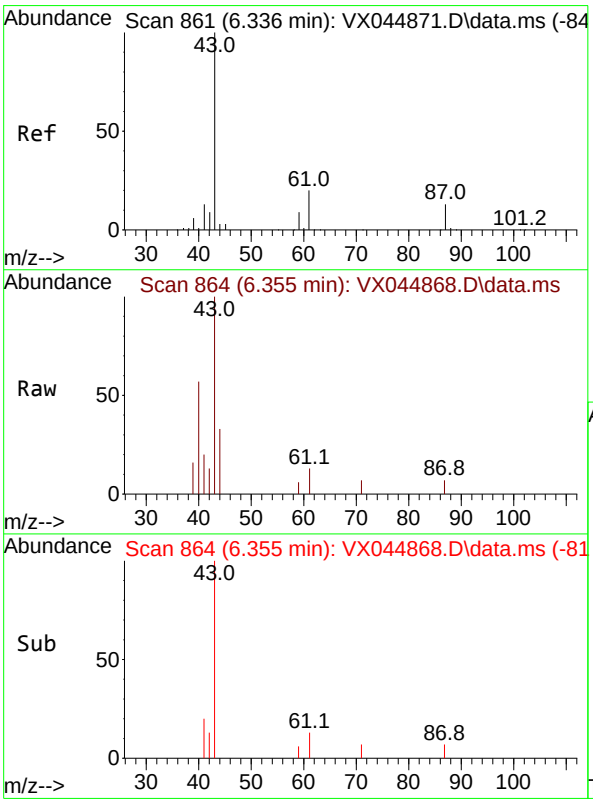
Ion	Ratio	Lower	Upper
62	100		
98	3.7	0.0	19.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

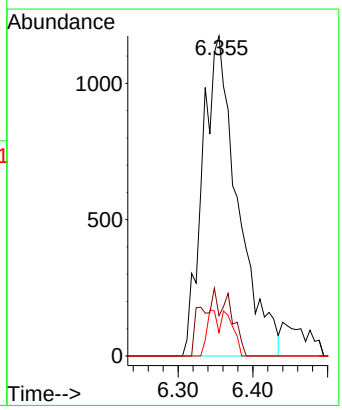
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

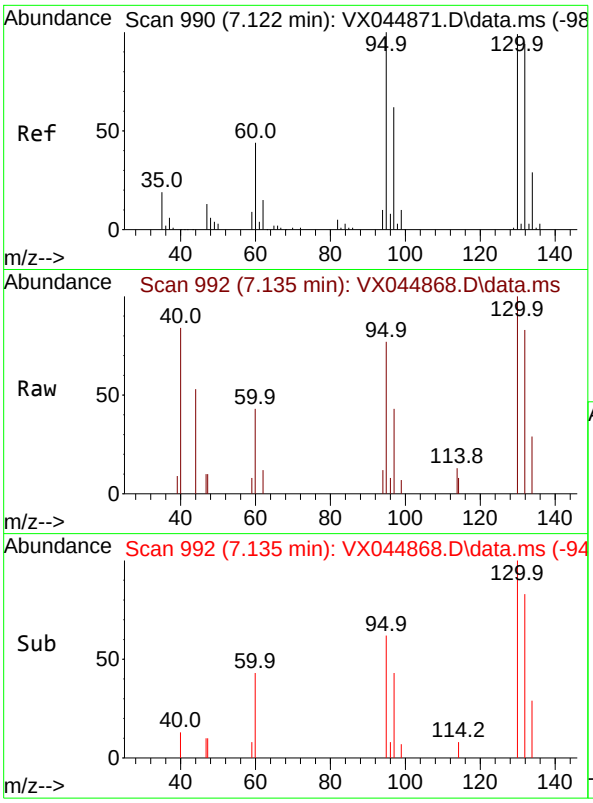


#43
Isopropyl Acetate
Concen: 0.897 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 3839

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





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

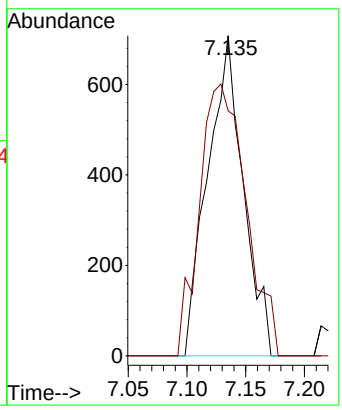
Tgt Ion:130 Resp: 148

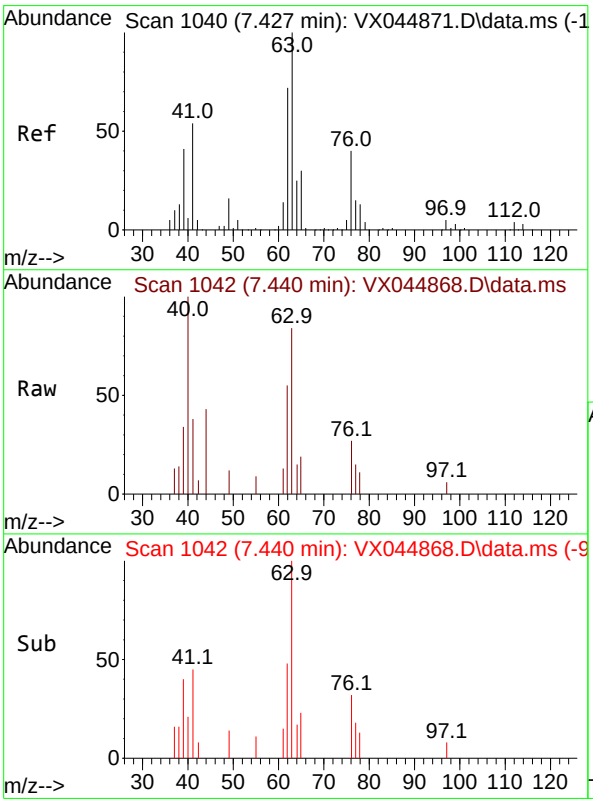
Ion	Ratio	Lower	Upper
130	100		
95	76.6	0.0	202.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

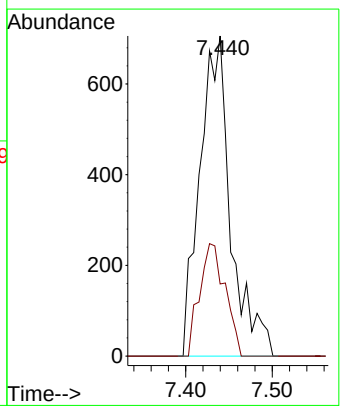


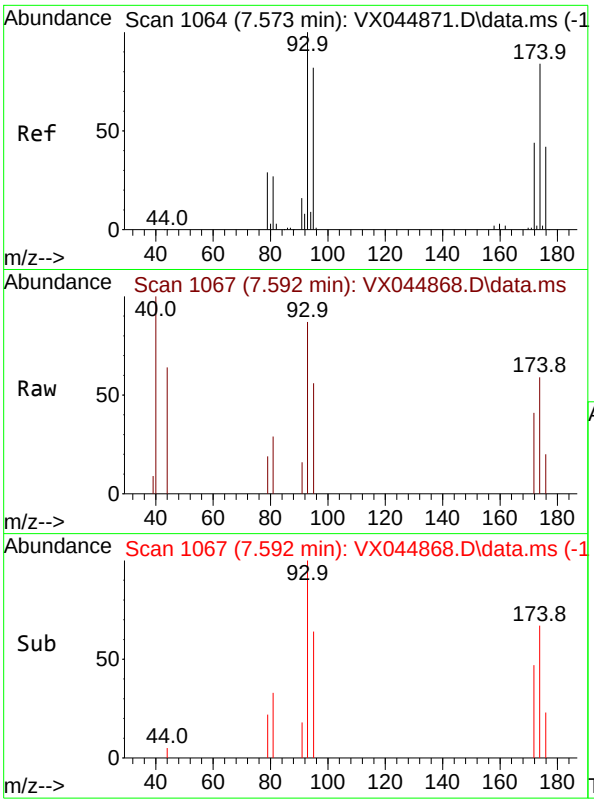


#45
1,2-Dichloropropane
Concen: 0.943 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 1746

Ion	Ratio	Lower	Upper
63	100		
65	22.5	24.2	36.4#

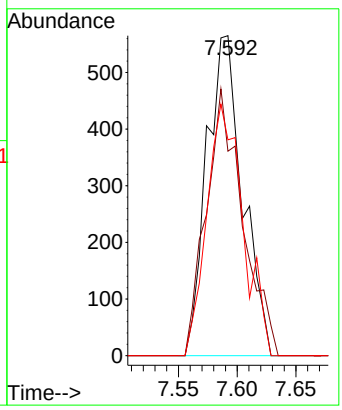




#46
Dibromomethane
Concen: 0.936 ug/l
RT: 7.592 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 93 Resp: 120

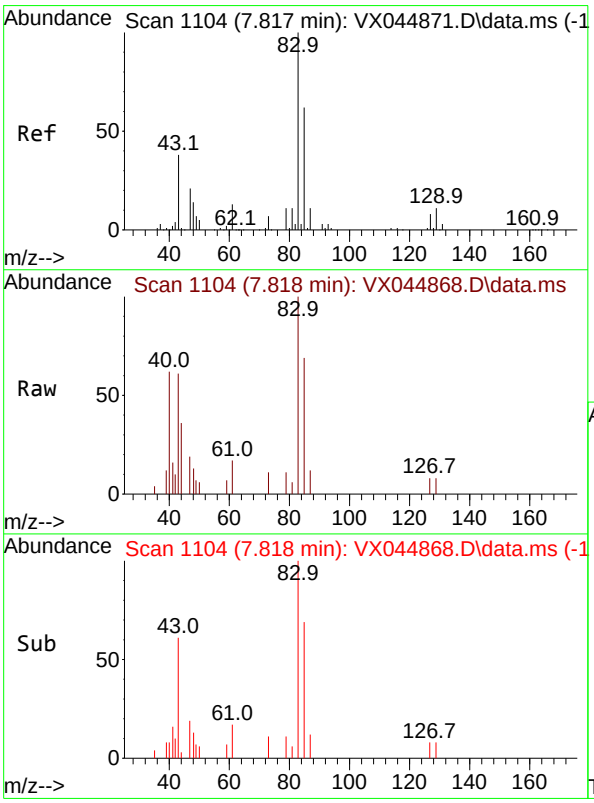
Ion	Ratio	Lower	Upper
93	100		
95	84.3	66.2	99.4
174	79.3	69.9	104.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

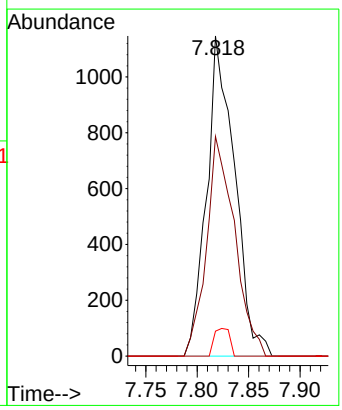
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

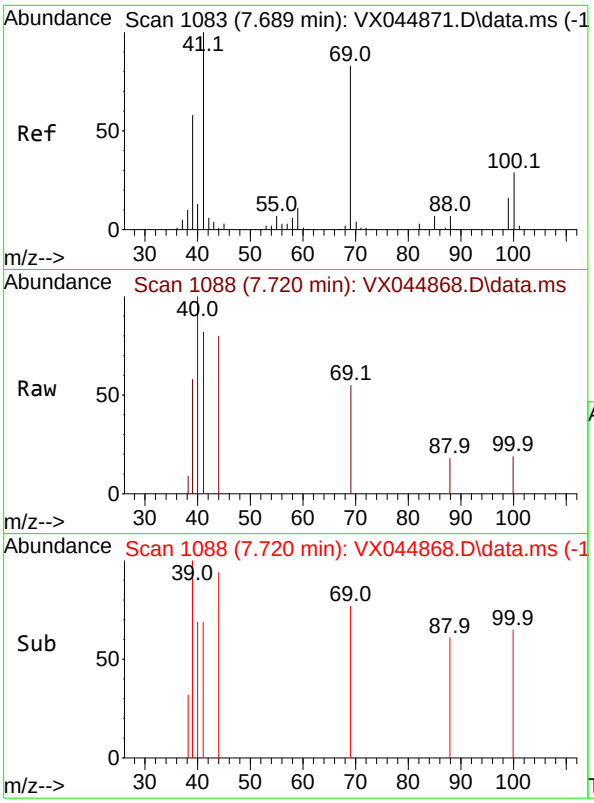


#47
Bromodichloromethane
Concen: 0.875 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 2176

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

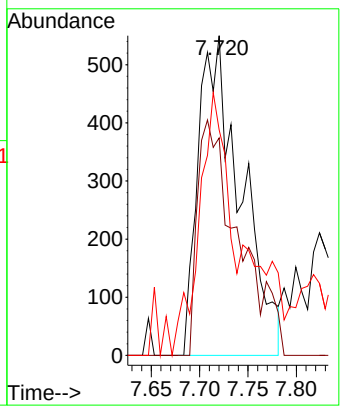




#48
Methyl methacrylate
Concen: 0.830 ug/l
RT: 7.720 min Scan# 1
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 167

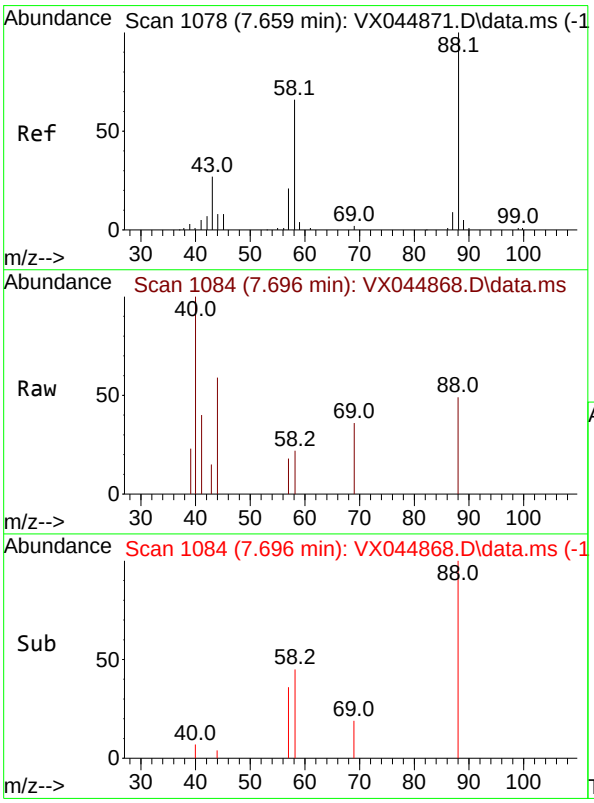
Ion	Ratio	Lower	Upper
41	100		
69	71.8	65.8	98.8
39	55.9	46.4	69.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

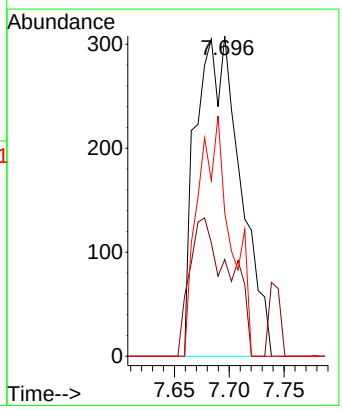
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

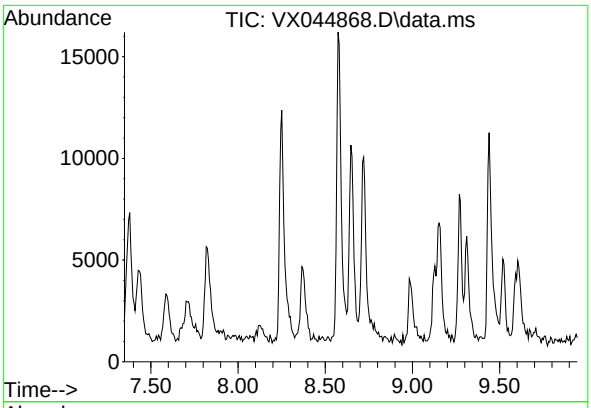


#49
1,4-Dioxane
Concen: 20.015 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.037 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 88 Resp: 867

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





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

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

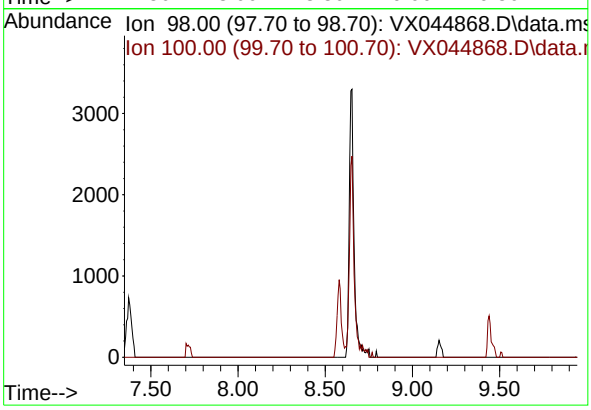
Tgt Ion: 98

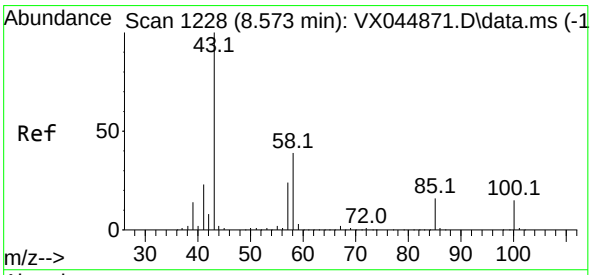
Sig	Exp Ratio
98	100
100	65.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

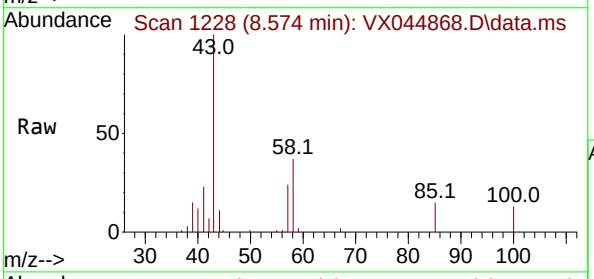


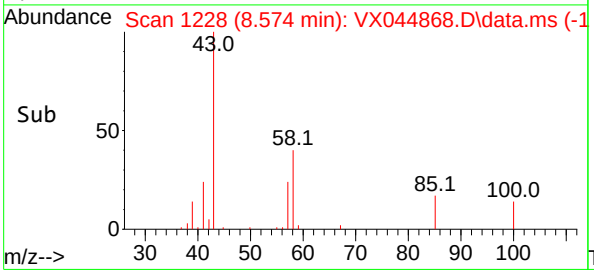


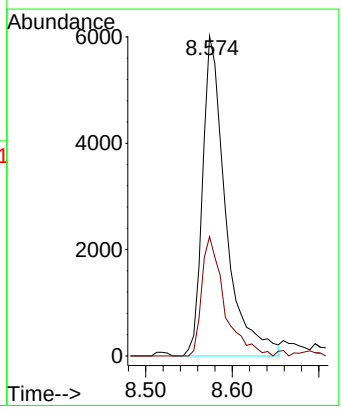
#51
4-Methyl-2-Pentanone
Concen: 4.290 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

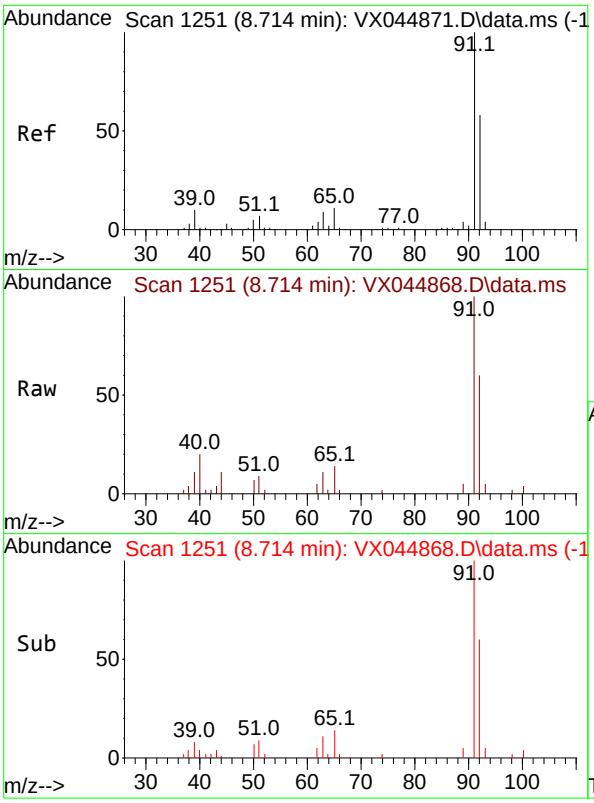
Tgt Ion: 43 Resp: 11169

Ion	Ratio	Lower	Upper
43	100		
58	36.3	30.8	46.2





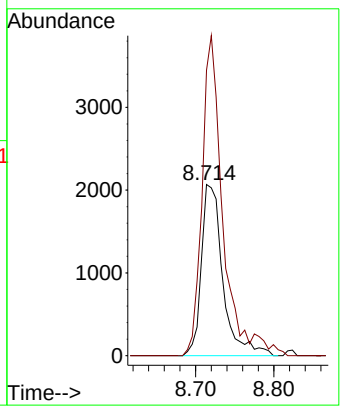




#52
Toluene
Concen: 0.889 ug/l
RT: 8.714 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 92 Resp: 394

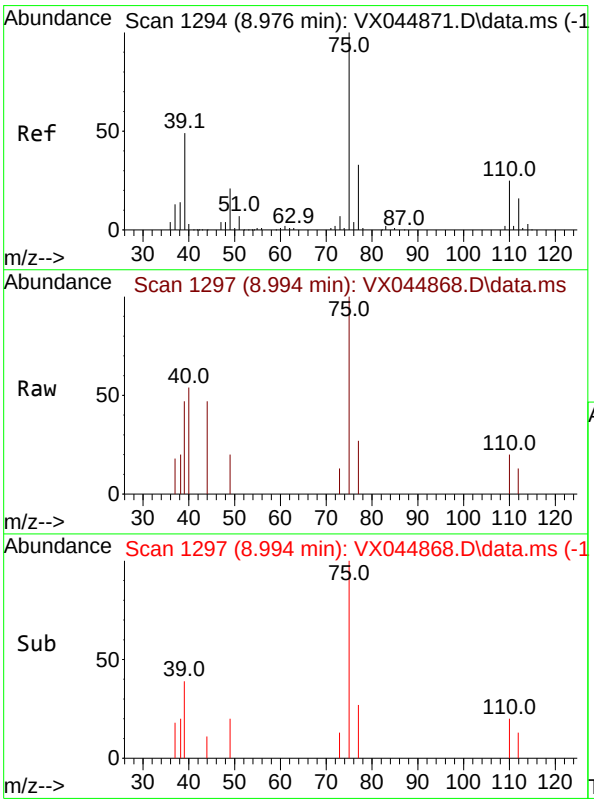
Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.4	206.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

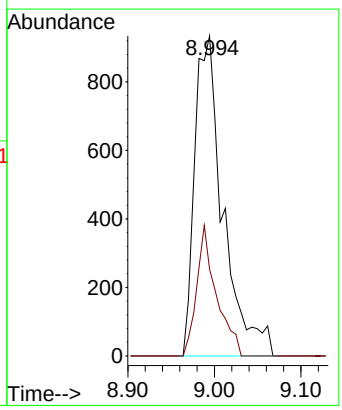
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

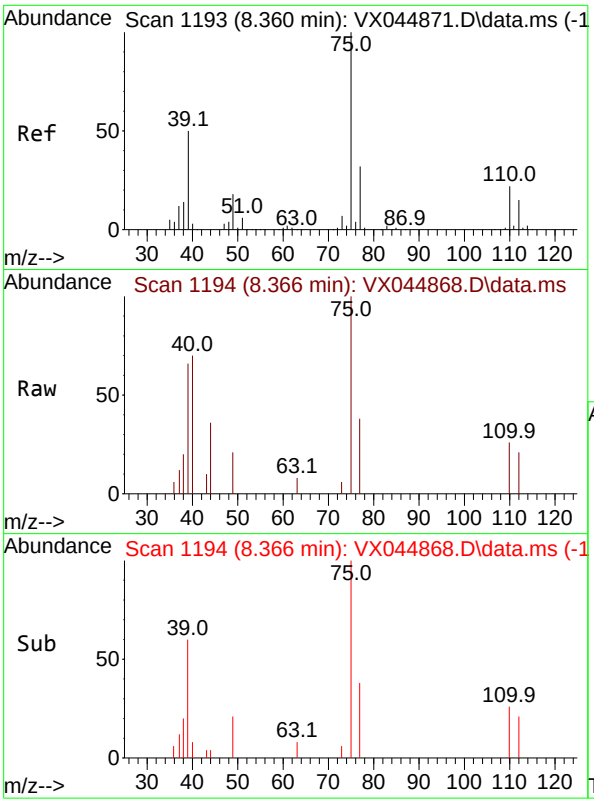


#53
t-1,3-Dichloropropene
Concen: 0.842 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 2119

Ion	Ratio	Lower	Upper
75	100		
77	27.1	26.0	39.0

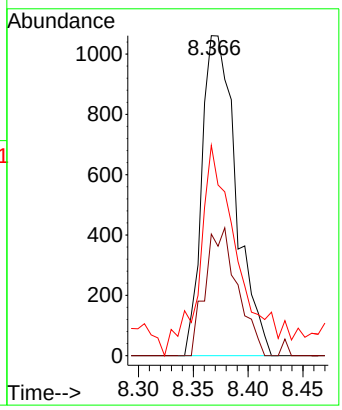




#54
cis-1,3-Dichloropropene
Concen: 0.820 ug/l
RT: 8.366 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 230

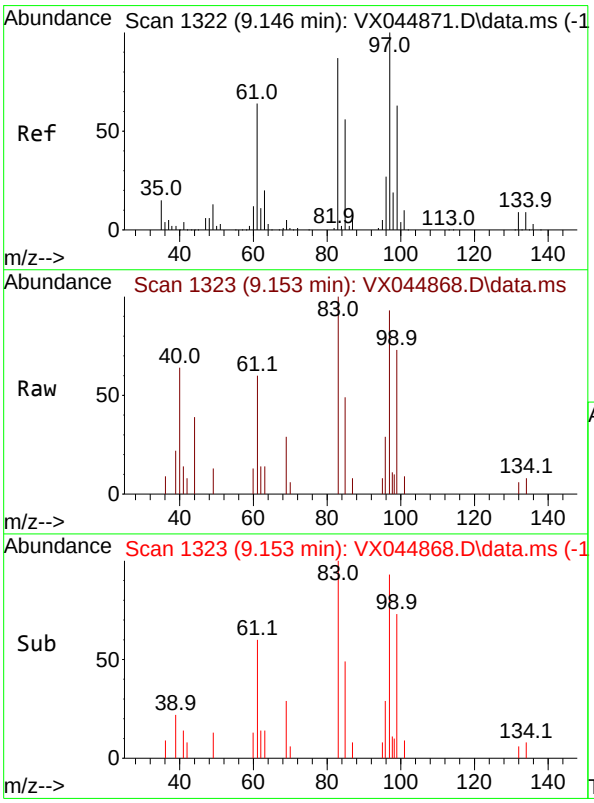
Ion	Ratio	Lower	Upper
75	100		
77	38.0	25.3	37.9#
39	60.3	40.0	60.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

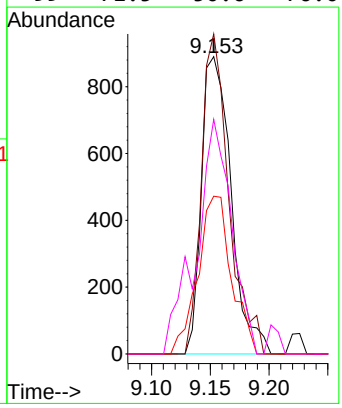
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

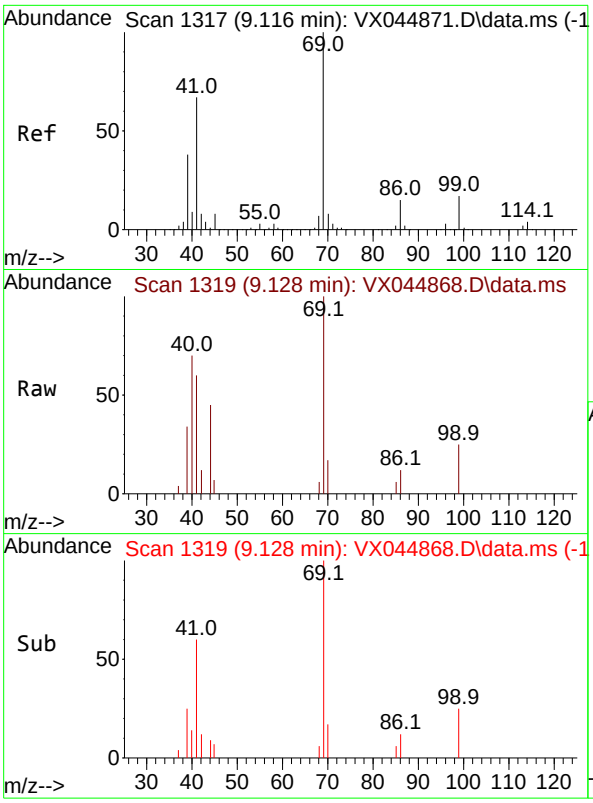


#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 97 Resp: 1558

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

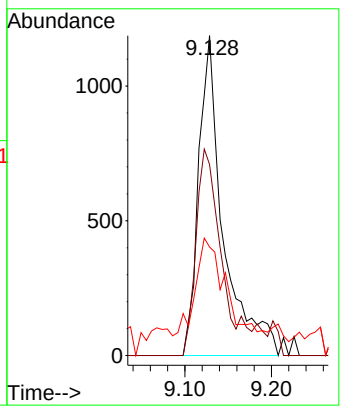




#56
Ethyl methacrylate
Concen: 0.852 ug/l
RT: 9.128 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 69 Resp: 234

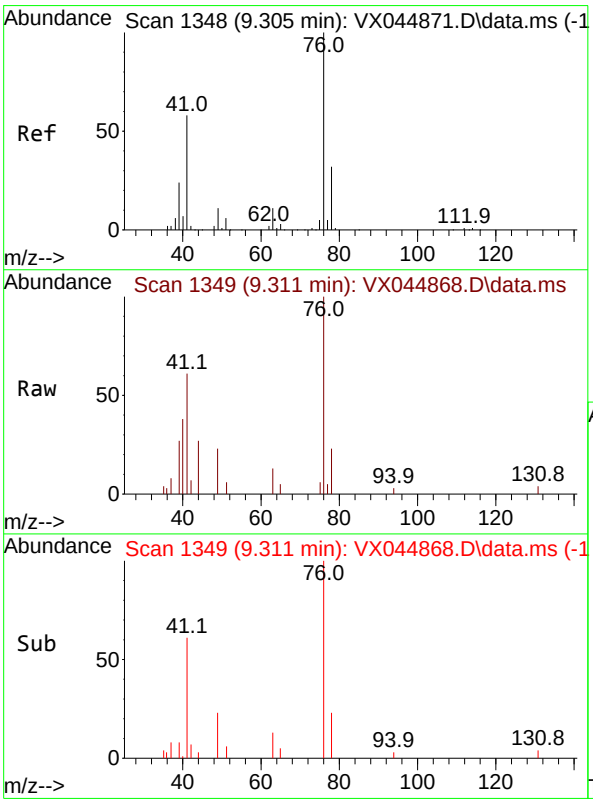
Ion	Ratio	Lower	Upper
69	100		
41	61.6	55.2	82.8
39	56.2	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

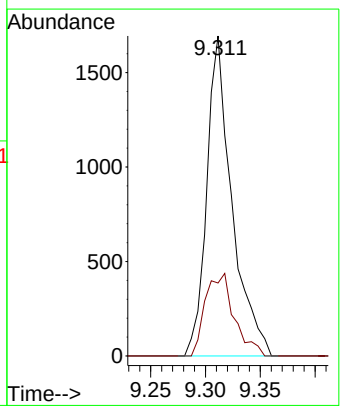
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

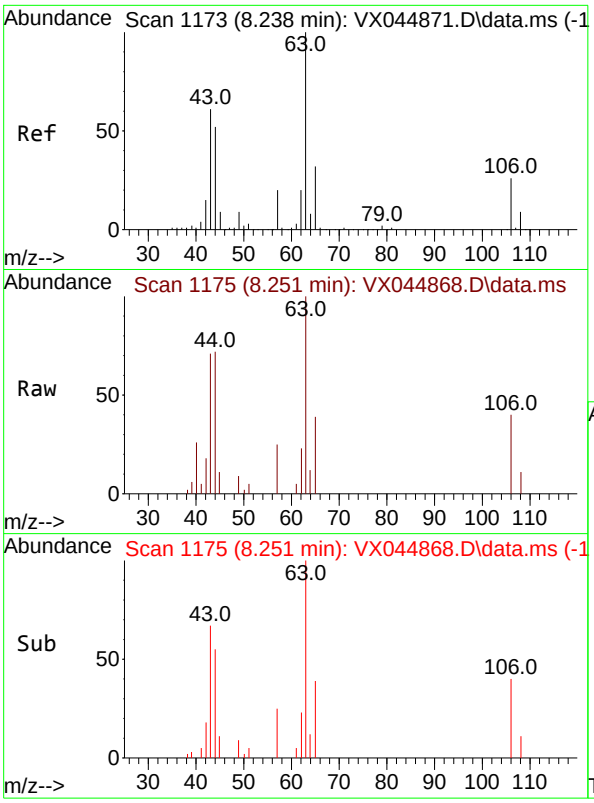


#57
1,3-Dichloropropane
Concen: 0.905 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 76 Resp: 2699

Ion	Ratio	Lower	Upper
76	100		
78	29.6	25.8	38.8





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

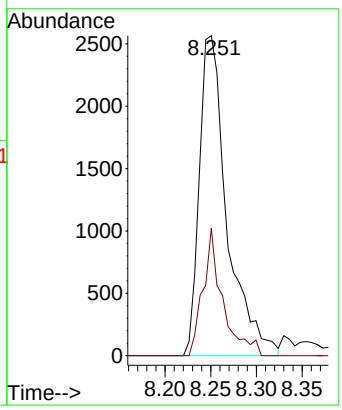
Tgt Ion: 63 Resp: 540

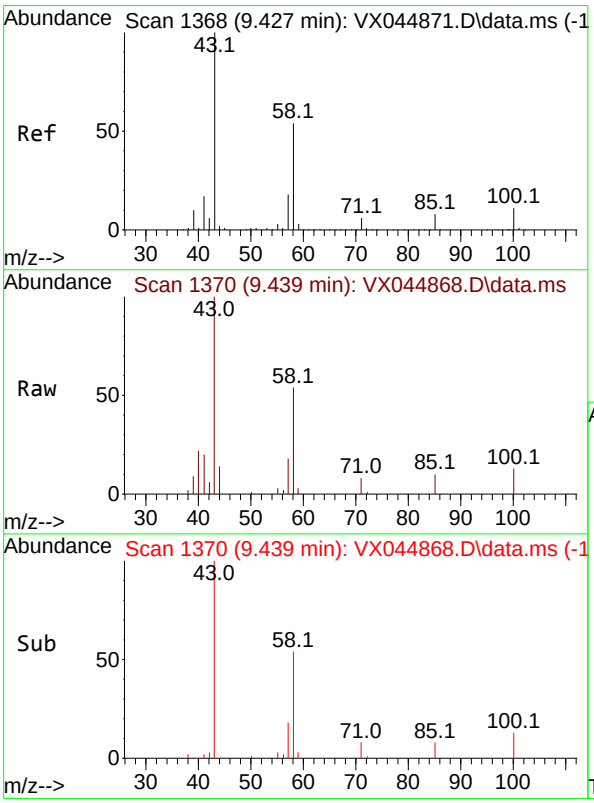
Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.3	31.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

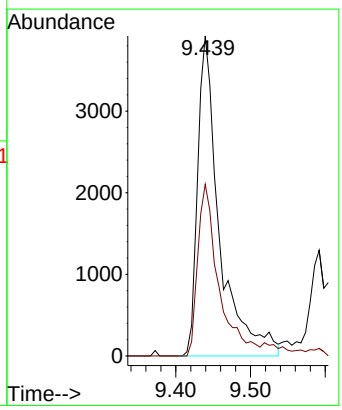


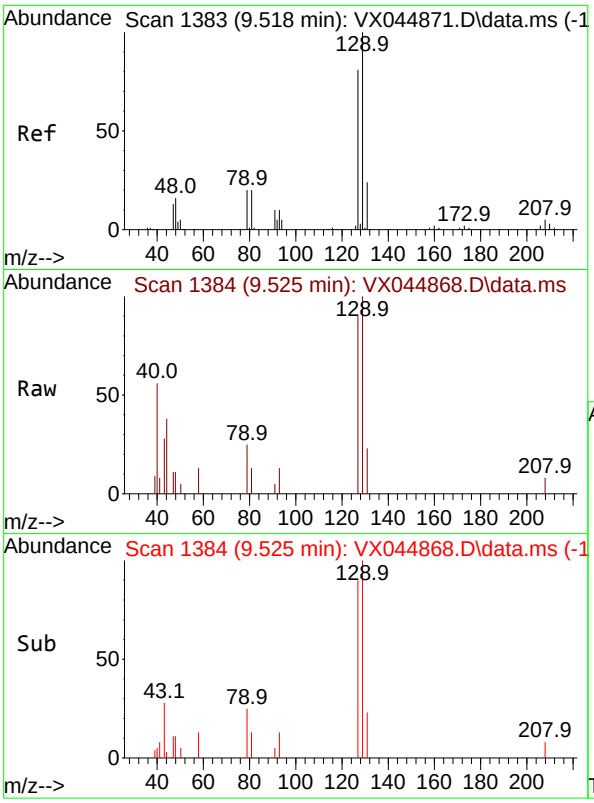


#59
2-Hexanone
Concen: 4.240 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 7952

Ion	Ratio	Lower	Upper
43	100		
58	51.3	27.5	82.4

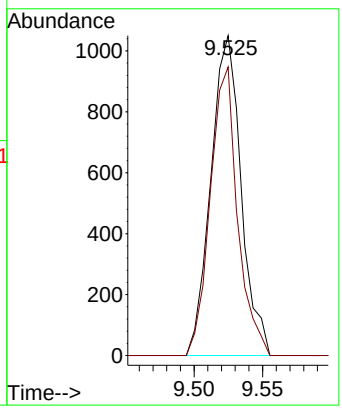




#60
Dibromochloromethane
Concen: 0.885 ug/l
RT: 9.525 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:129 Resp: 161

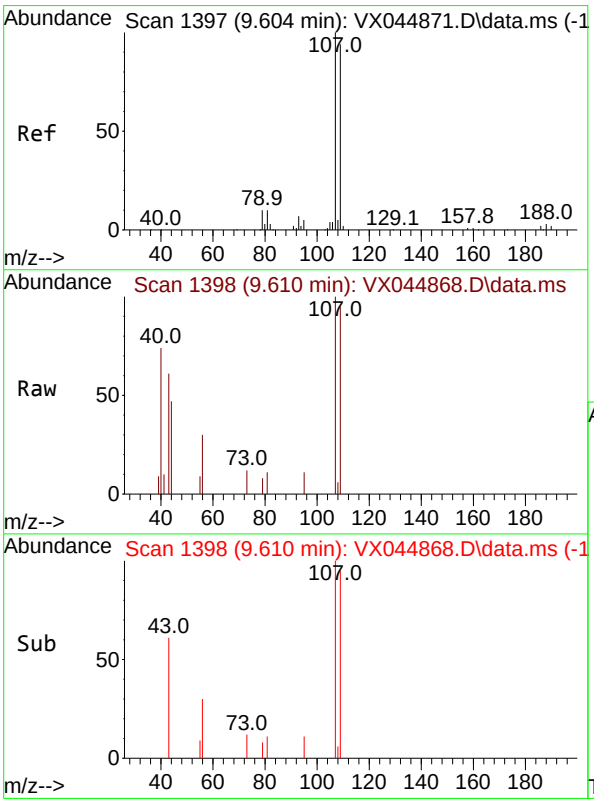
Ion	Ratio	Lower	Upper
129	100		
127	81.3	39.1	117.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

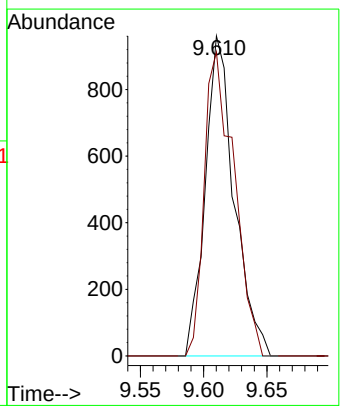
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

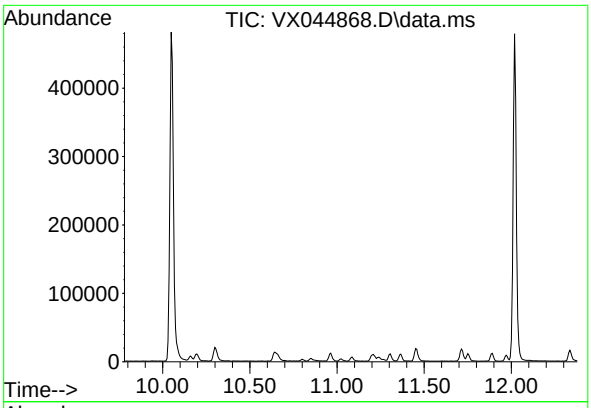


#61
1,2-Dibromoethane
Concen: 0.888 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:107 Resp: 1534

Ion	Ratio	Lower	Upper
107	100		
109	97.4	75.9	113.9





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

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

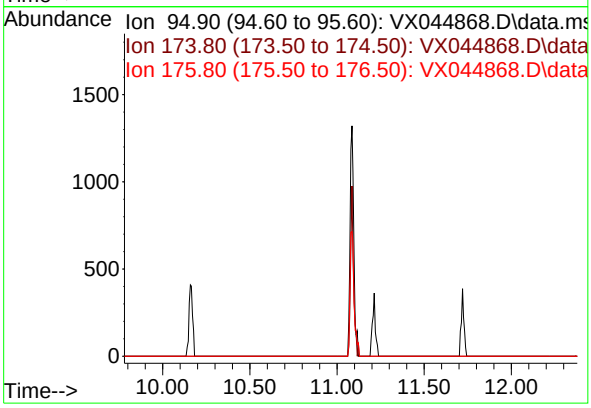
Tgt Ion: 95

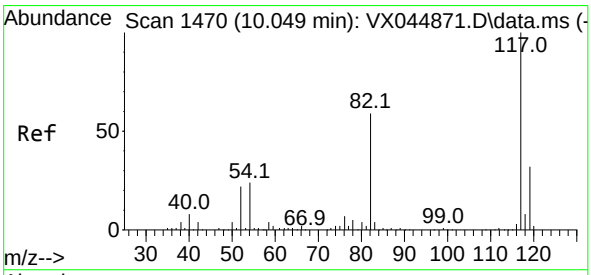
Sig	Exp Ratio
95	100
174	71.3
176	70.8

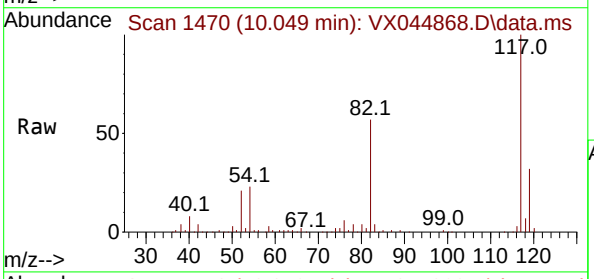
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

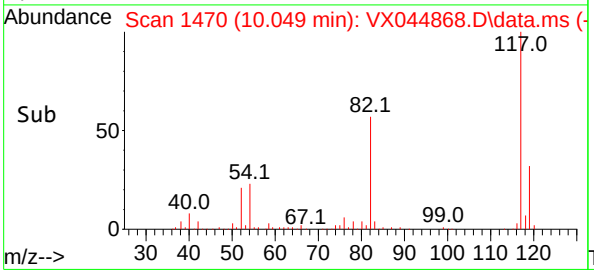
Manual Integrations APPROVED

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





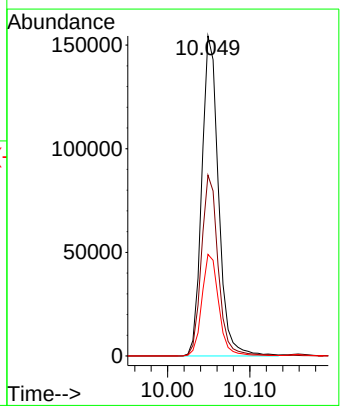


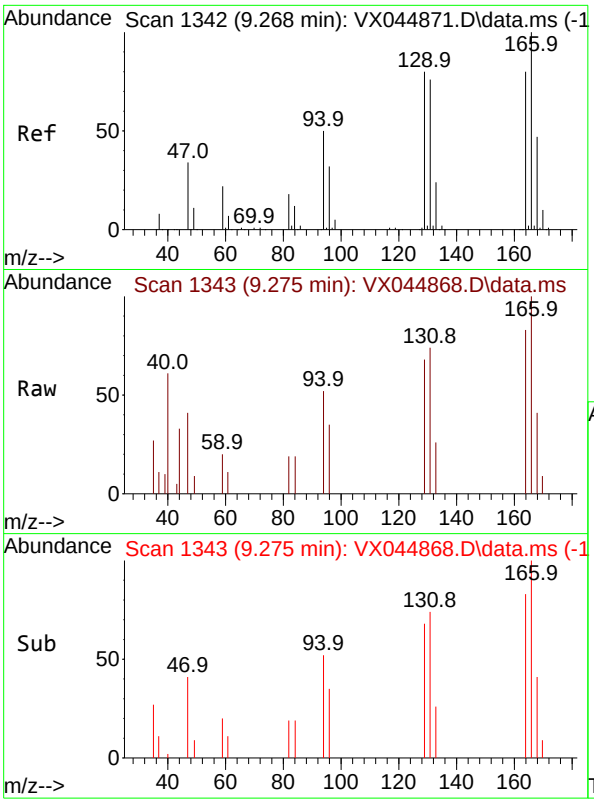


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 218570

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

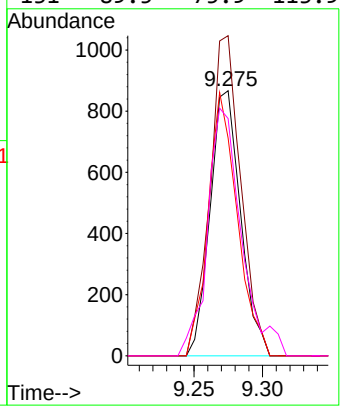




#64
Tetrachloroethene
Concen: 0.971 ug/l
RT: 9.275 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:164 Resp: 133

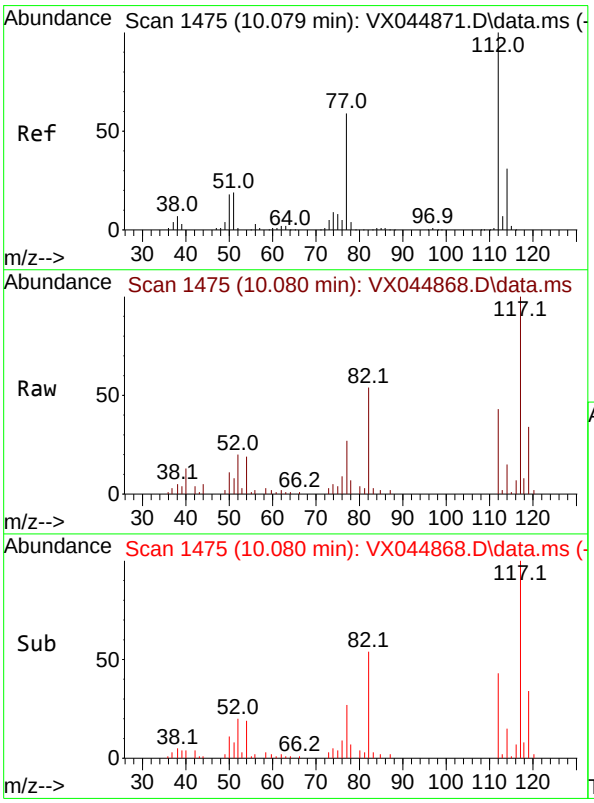
Ion	Ratio	Lower	Upper
164	100		
166	120.8	100.4	150.6
129	82.1	79.9	119.9
131	89.5	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

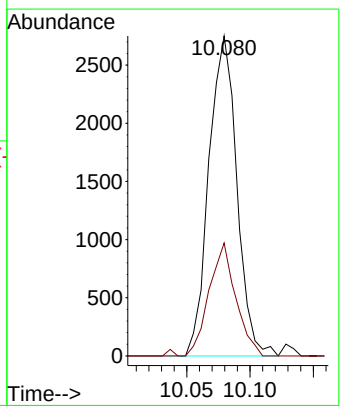
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

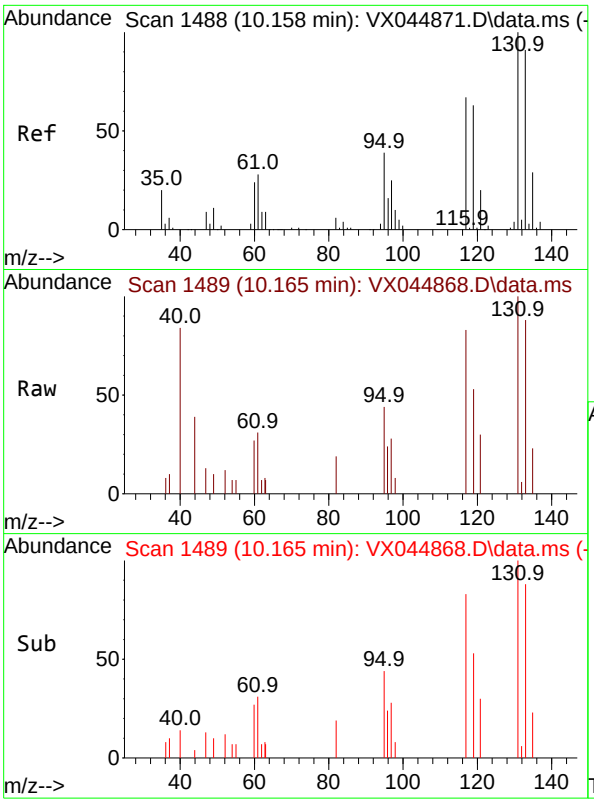


#65
Chlorobenzene
Concen: 0.902 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:112 Resp: 4234

Ion	Ratio	Lower	Upper
112	100		
114	35.3	25.0	37.6





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

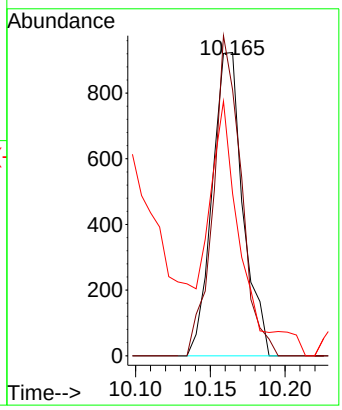
Tgt Ion:131 Resp: 132

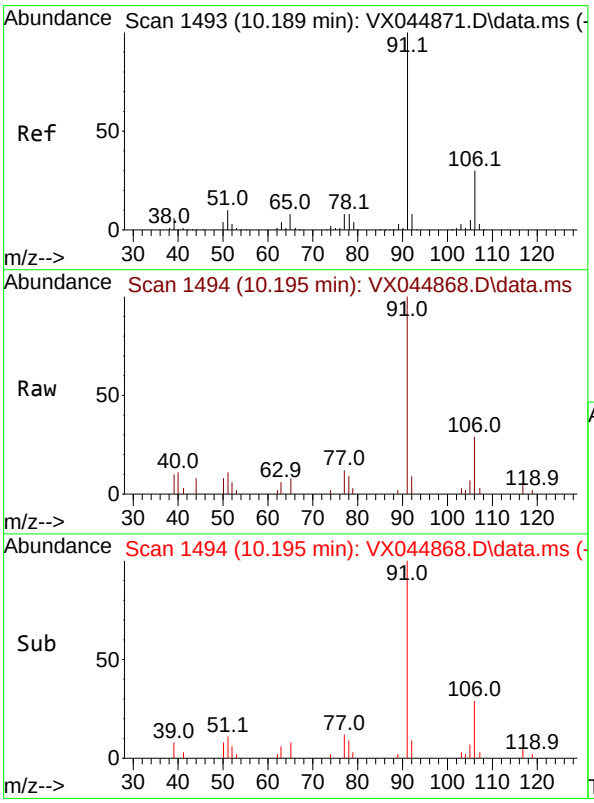
Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.1	141.3
119	0.0	33.6	100.6#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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

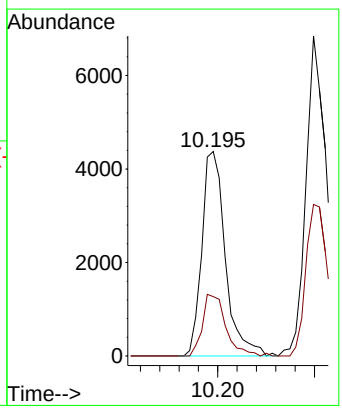


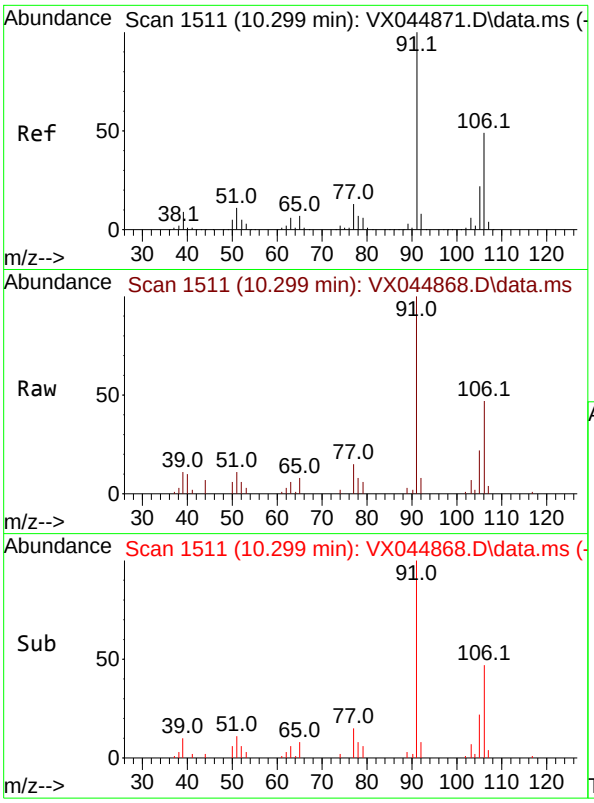


#67
Ethyl Benzene
Concen: 0.892 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 7388

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.9	35.9

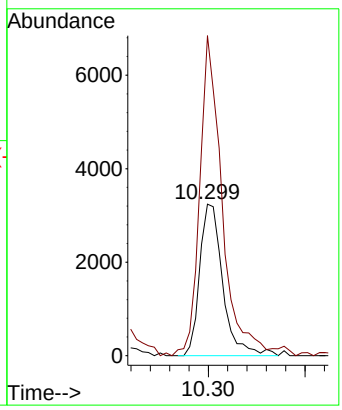




#68
m/p-Xylenes
Concen: 1.763 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:106 Resp: 538

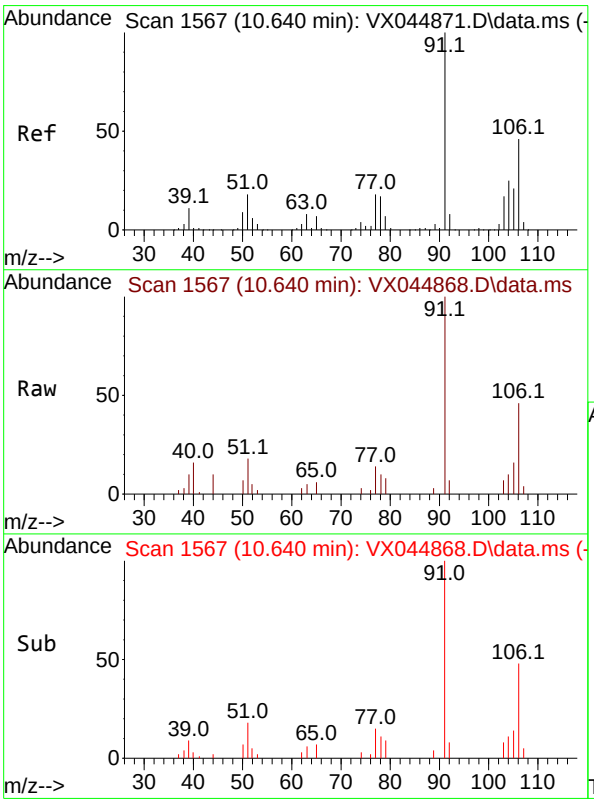
Ion	Ratio	Lower	Upper
106	100		
91	204.7	164.3	246.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

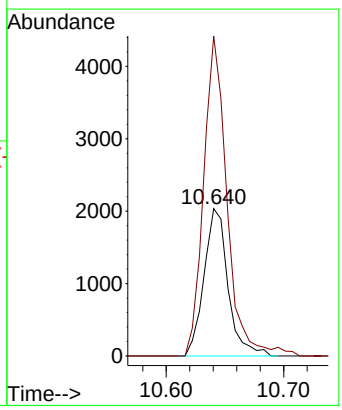
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

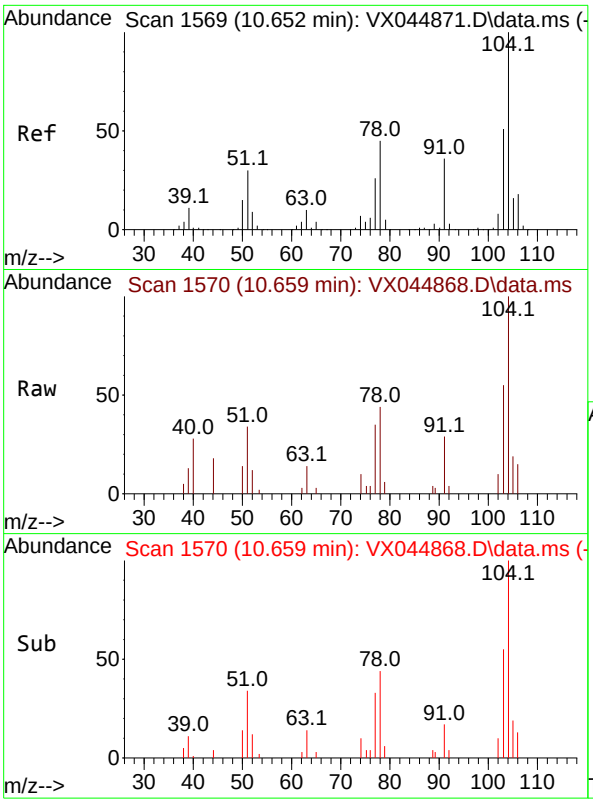


#69
o-Xylene
Concen: 0.942 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:106 Resp: 2889

Ion	Ratio	Lower	Upper
106	100		
91	211.5	108.5	325.5

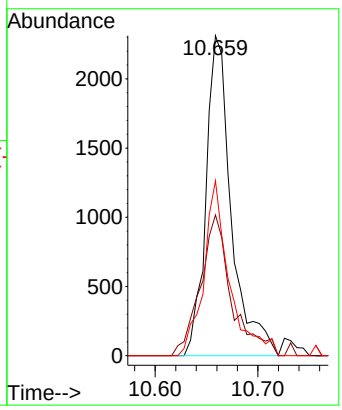




#70
Styrene
Concen: 0.804 ug/l
RT: 10.659 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:104 Resp: 397

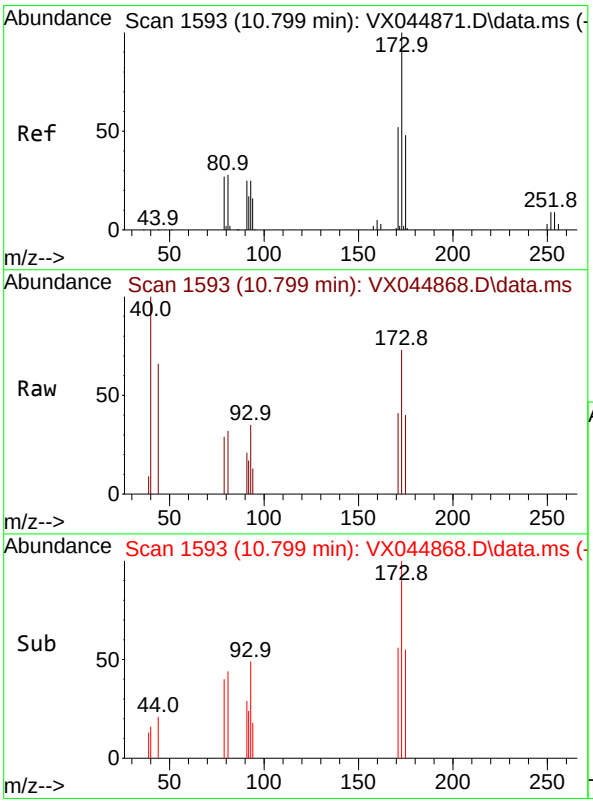
Ion	Ratio	Lower	Upper
104	100		
78	54.1	40.5	60.7
103	55.0	43.6	65.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

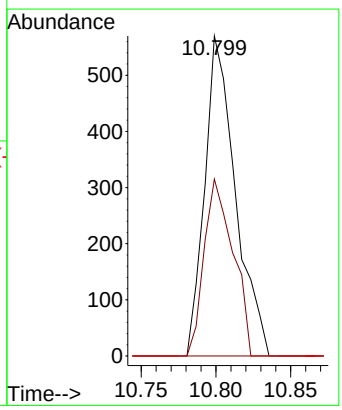
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

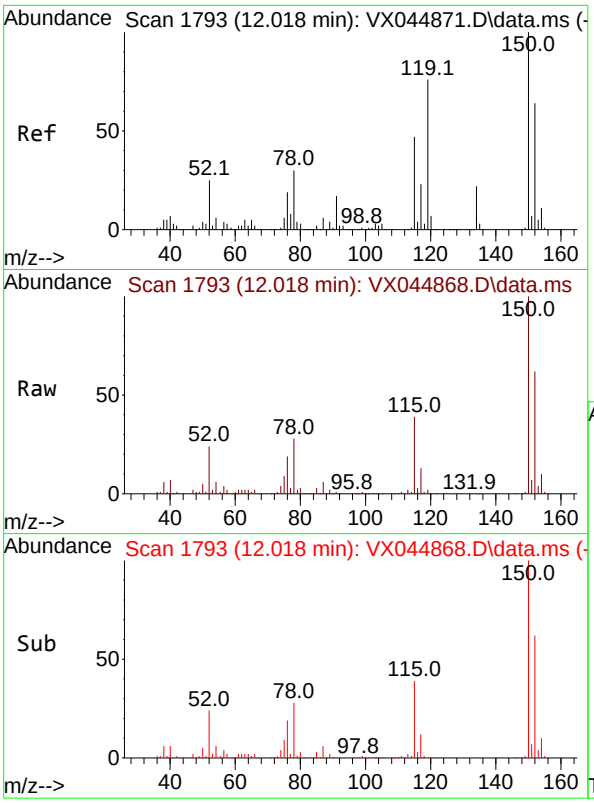


#71
Bromoform
Concen: 0.721 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:173 Resp: 813

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

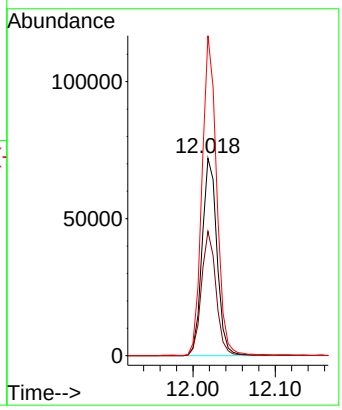




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:152 Resp: 9073

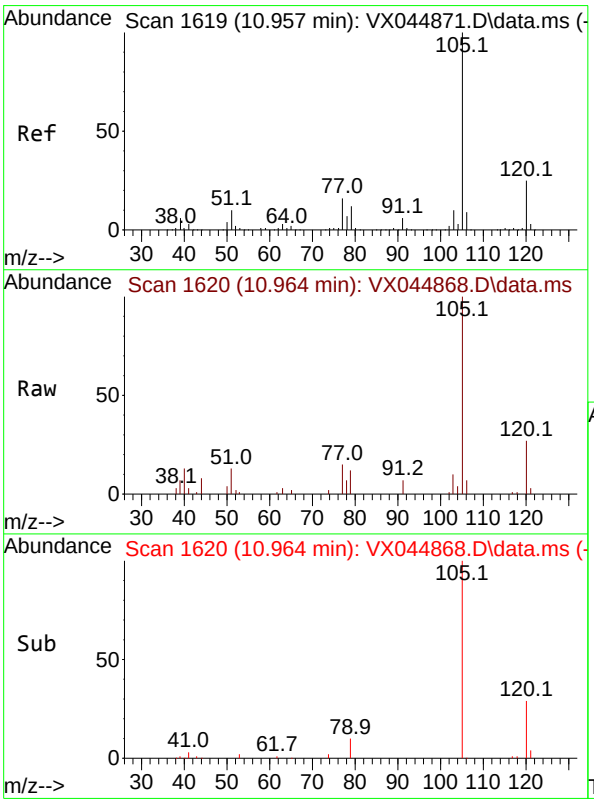
Ion	Ratio	Lower	Upper
152	100		
115	62.0	43.4	130.1
150	158.6	0.0	350.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

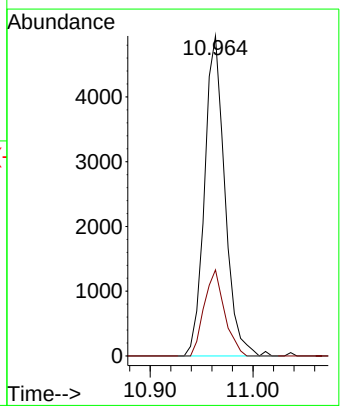
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

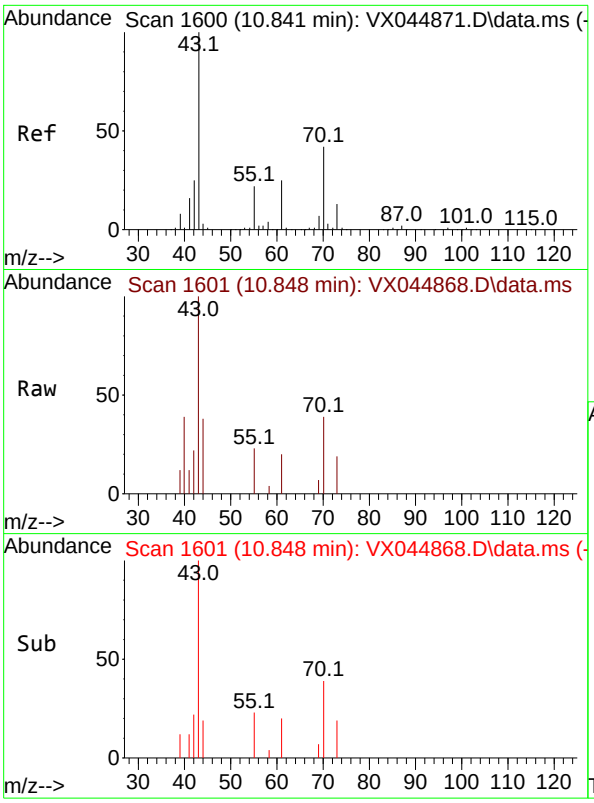


#73
Isopropylbenzene
Concen: 0.928 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 6778

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.2	39.5

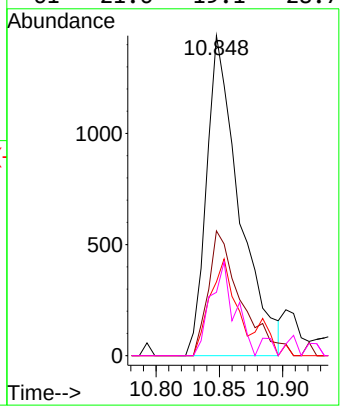




#74
N-amyl acetate
Concen: 0.785 ug/l
RT: 10.848 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 259

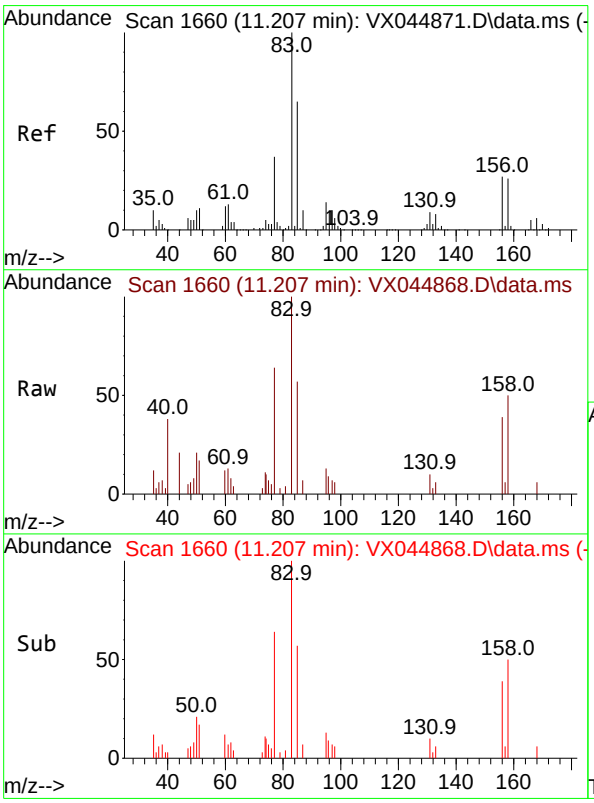
Ion	Ratio	Lower	Upper
43	100		
70	38.8	33.7	50.5
55	25.2	18.6	27.8
61	21.6	19.1	28.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

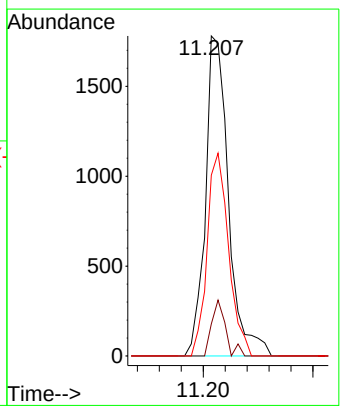
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

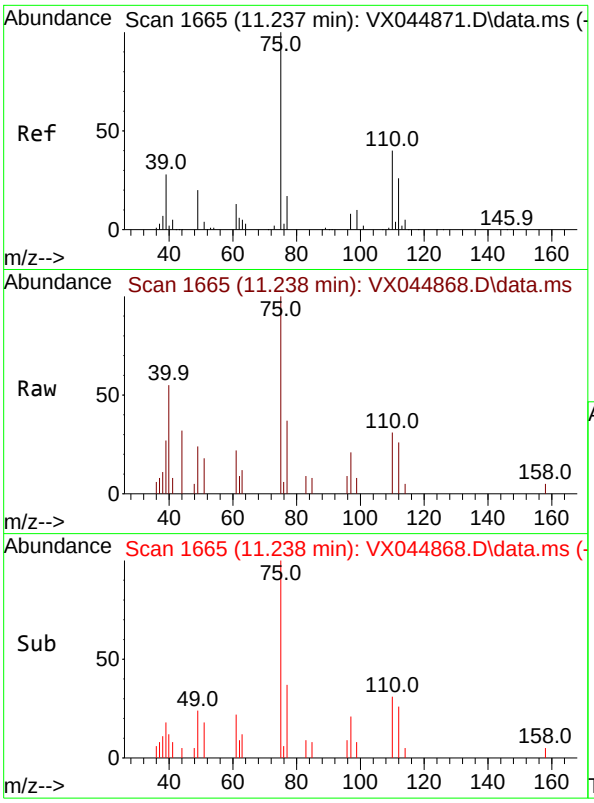


#75
1,1,2,2-Tetrachloroethane
Concen: 1.033 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 2594

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

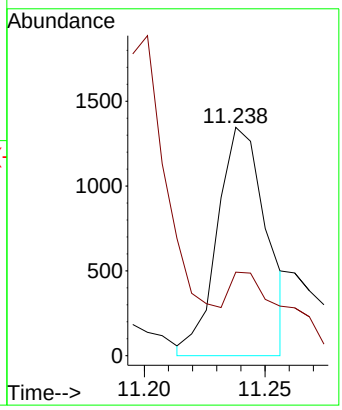




#76
1,2,3-Trichloropropane
Concen: 0.943 ug/l m
RT: 11.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 189

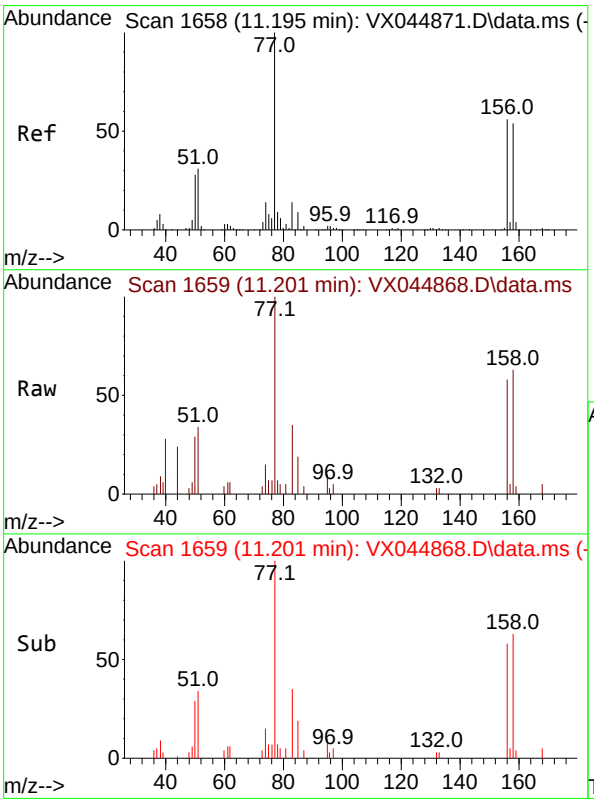
Ion	Ratio	Lower	Upper
75	100		
77	43.4	21.9	65.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

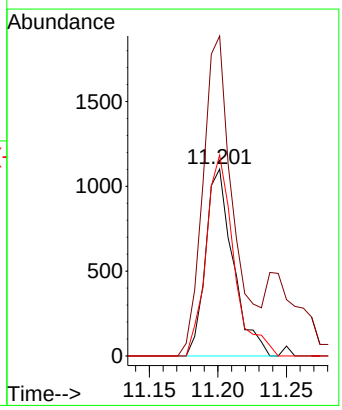
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

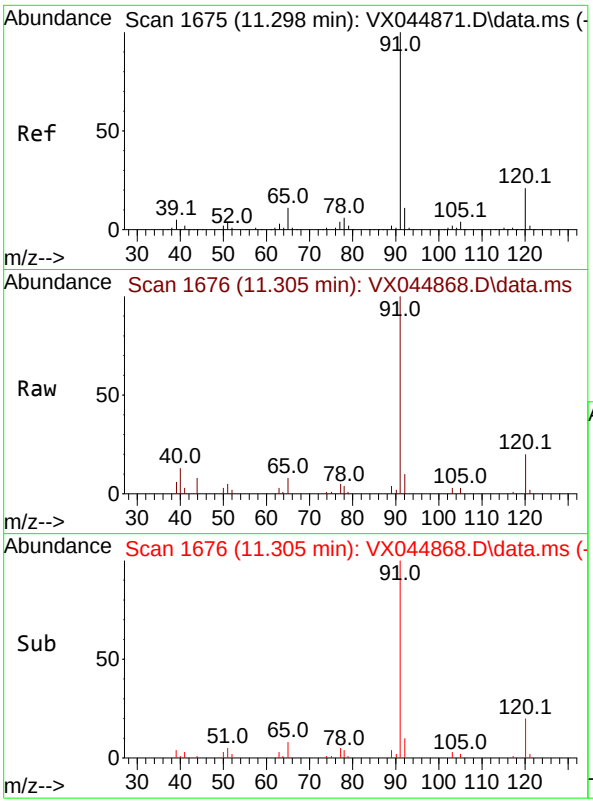


#77
Bromobenzene
Concen: 0.928 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:156 Resp: 1537

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

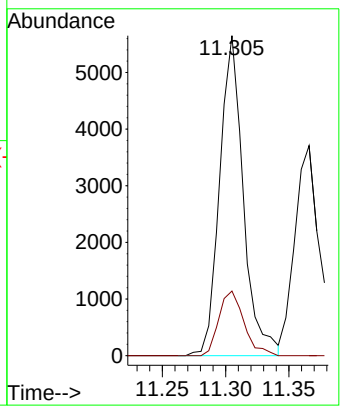




#78
n-propylbenzene
Concen: 0.871 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 734

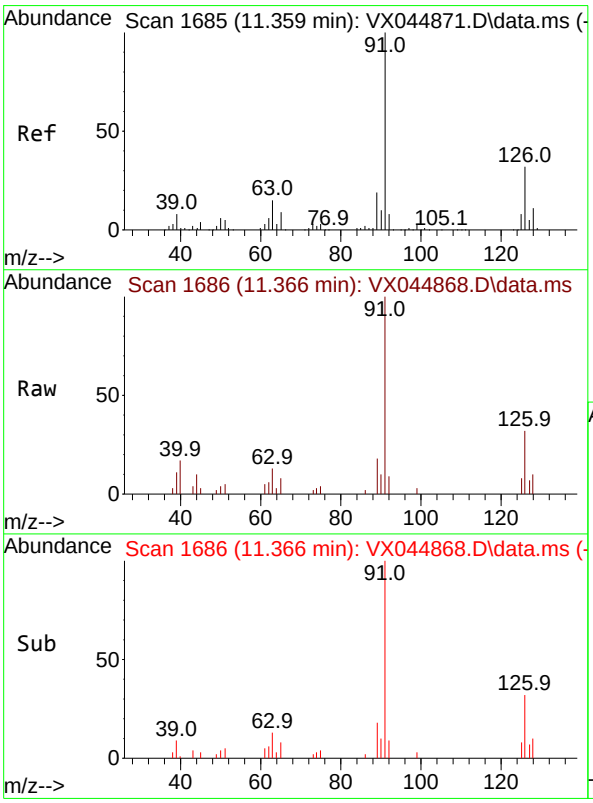
Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

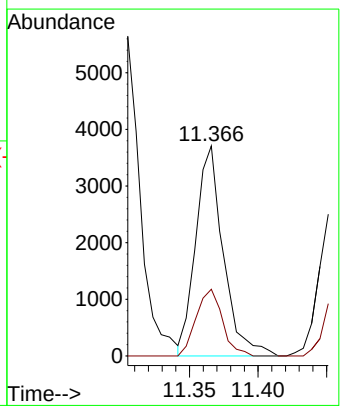
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

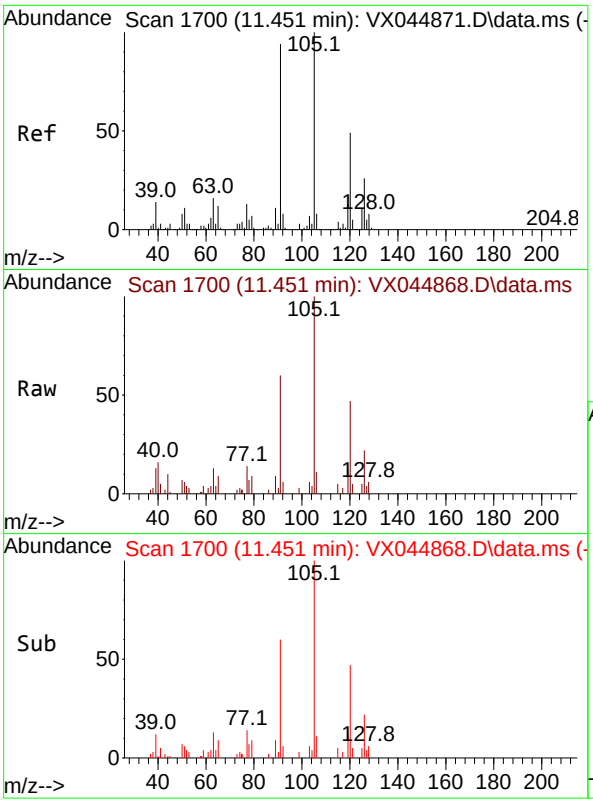


#79
2-Chlorotoluene
Concen: 1.001 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 5188

Ion	Ratio	Lower	Upper
91	100		
126	30.1	16.2	48.6

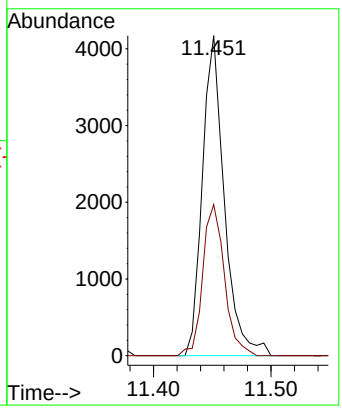




#80
1,3,5-Trimethylbenzene
Concen: 0.913 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 541

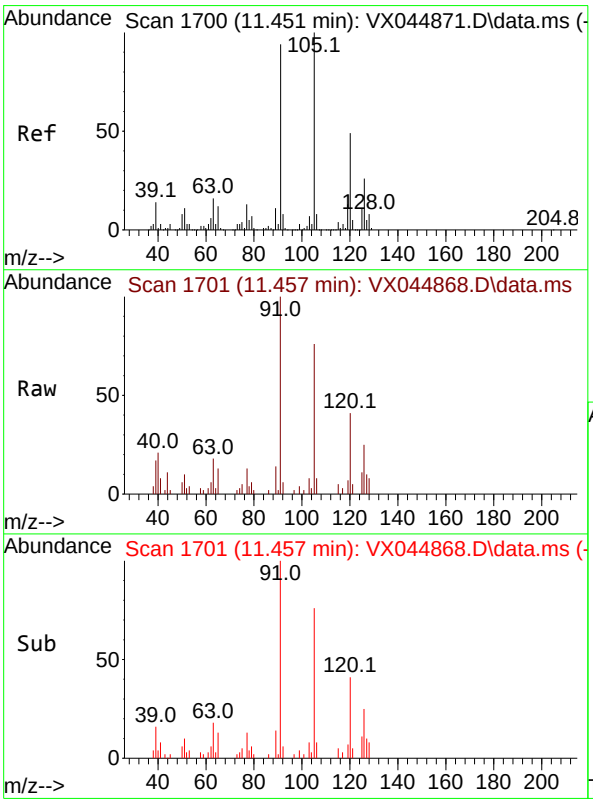
Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.0	72.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

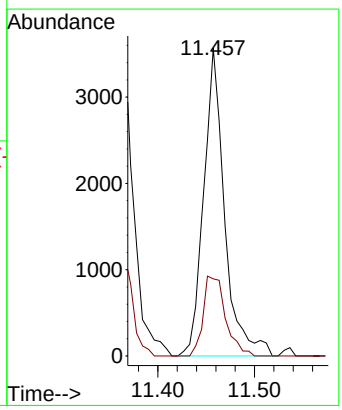
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

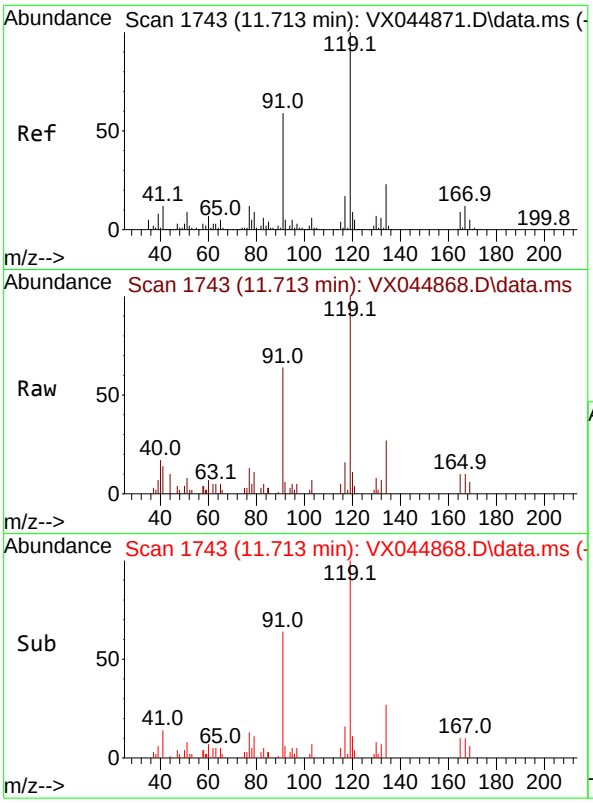


#82
4-Chlorotoluene
Concen: 0.936 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 5367

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.2	42.6

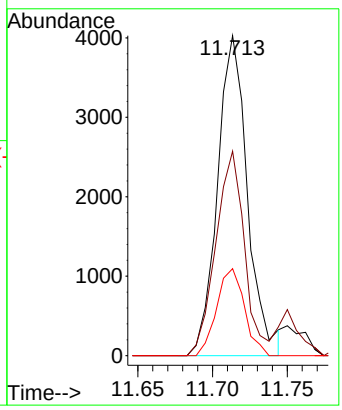




#83
tert-Butylbenzene
Concen: 0.937 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:119 Resp: 562

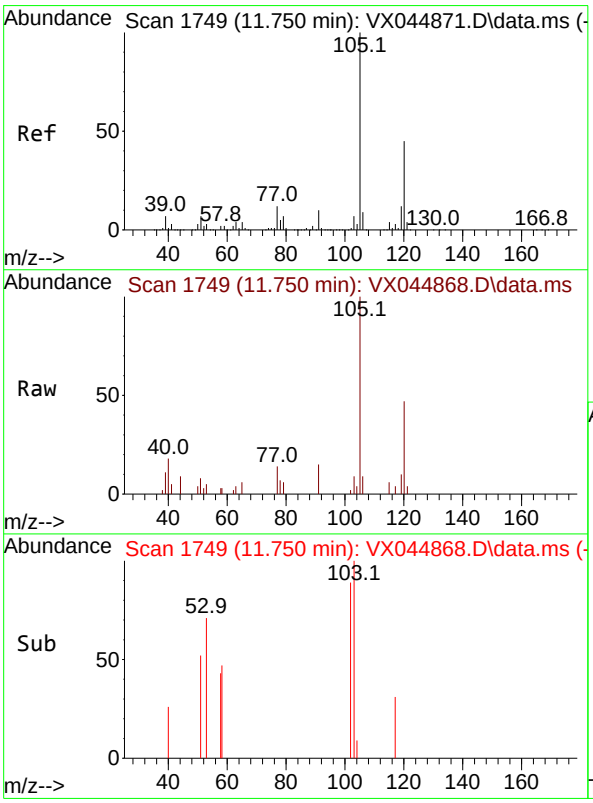
Ion	Ratio	Lower	Upper
119	100		
91	61.3	29.1	87.4
134	25.2	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

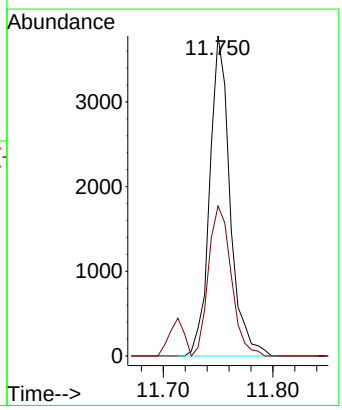
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

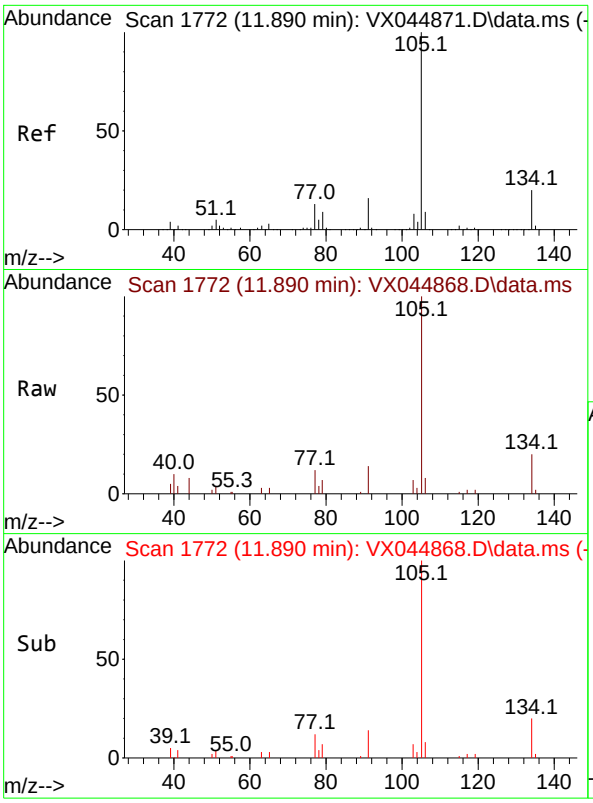


#84
1,2,4-Trimethylbenzene
Concen: 0.833 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 4876

Ion	Ratio	Lower	Upper
105	100		
120	52.4	22.4	67.0

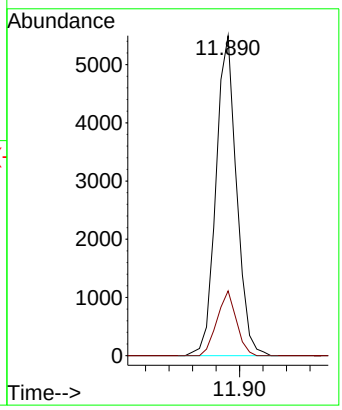




#85
sec-Butylbenzene
Concen: 0.902 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 670

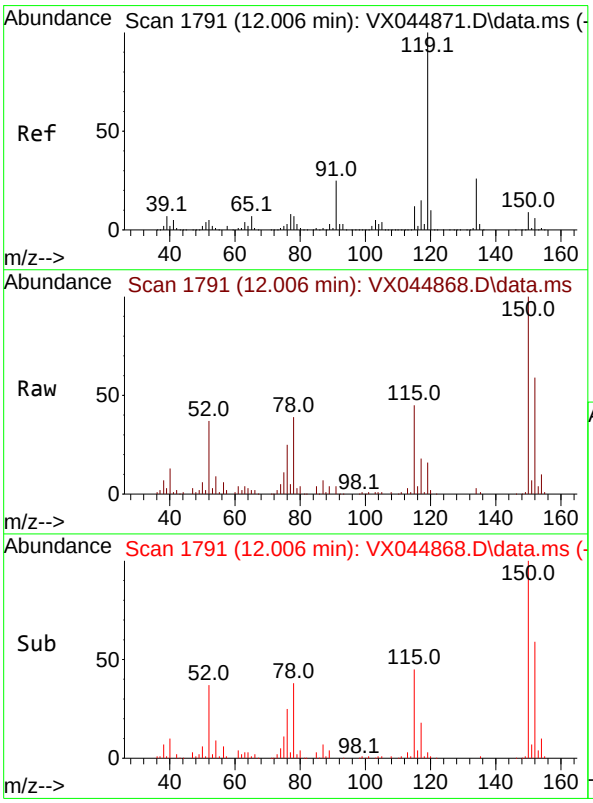
Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

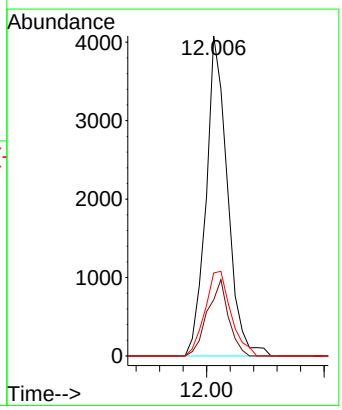
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

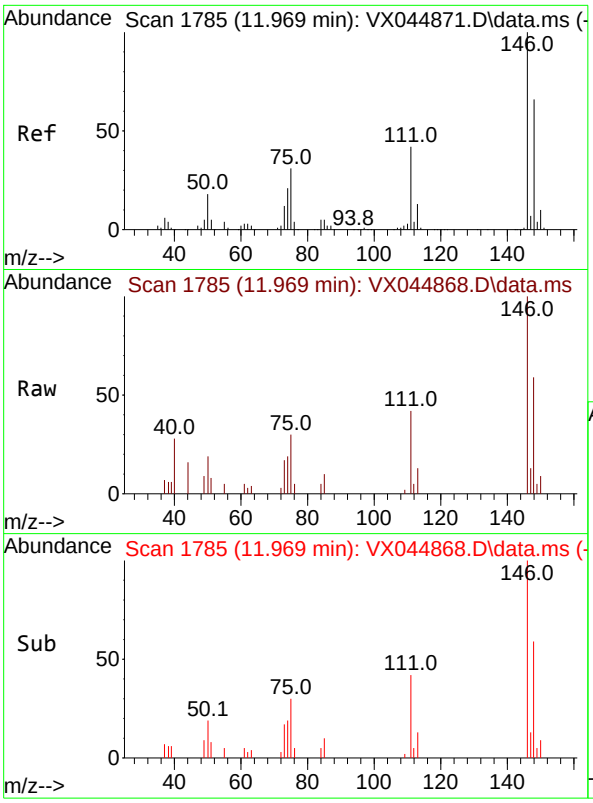


#86
p-Isopropyltoluene
Concen: 0.864 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:119 Resp: 5161

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

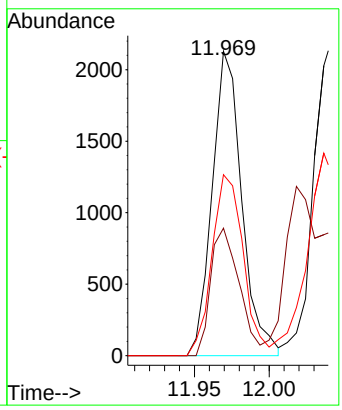




#87
1,3-Dichlorobenzene
Concen: 0.963 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:146 Resp: 293

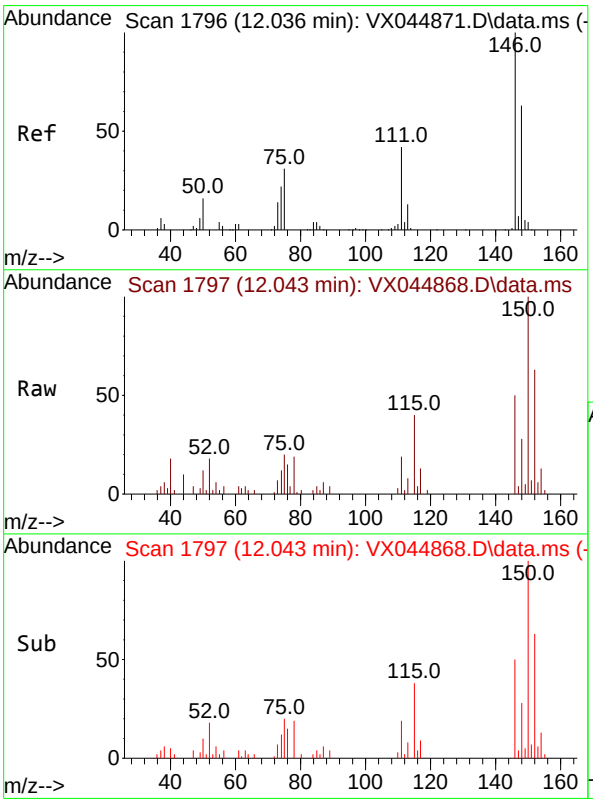
Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.2	63.6
148	62.8	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

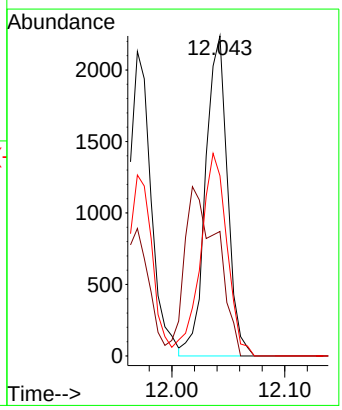
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

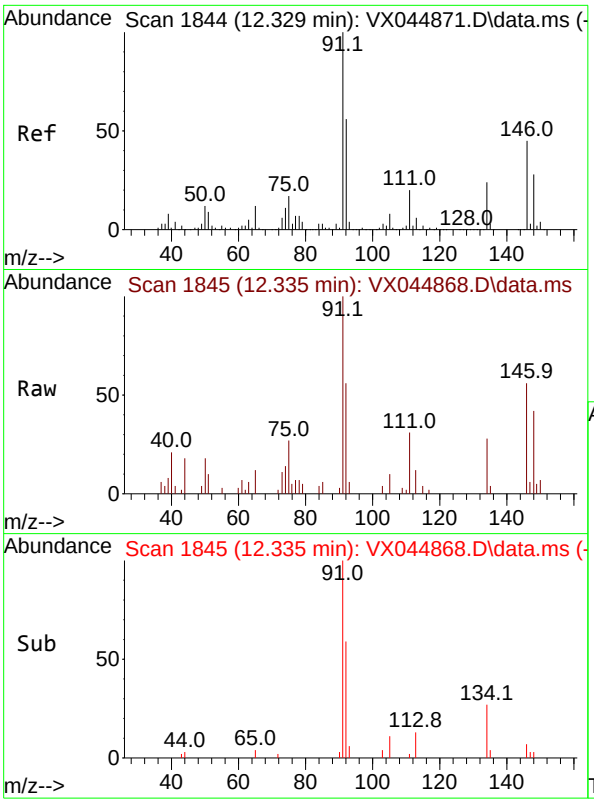


#88
1,4-Dichlorobenzene
Concen: 0.979 ug/l m
RT: 12.043 min Scan# 1797
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:146 Resp: 3016

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

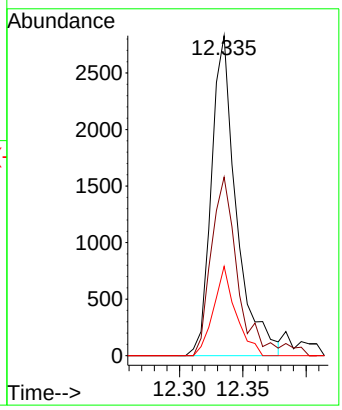




#89
n-Butylbenzene
Concen: 0.734 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 388

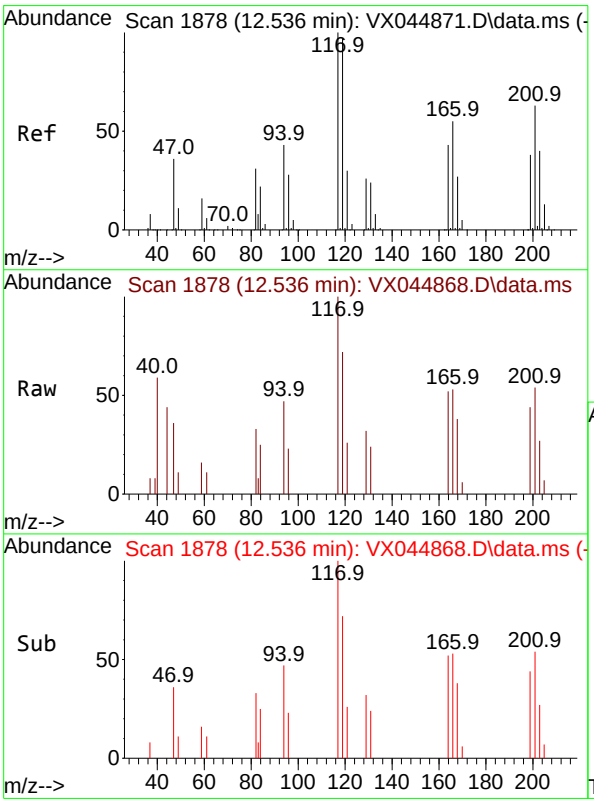
Ion	Ratio	Lower	Upper
91	100		
92	60.9	27.2	81.6
134	24.8	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

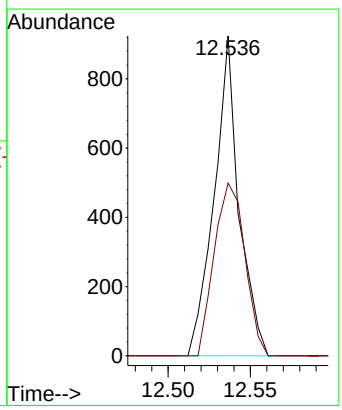
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

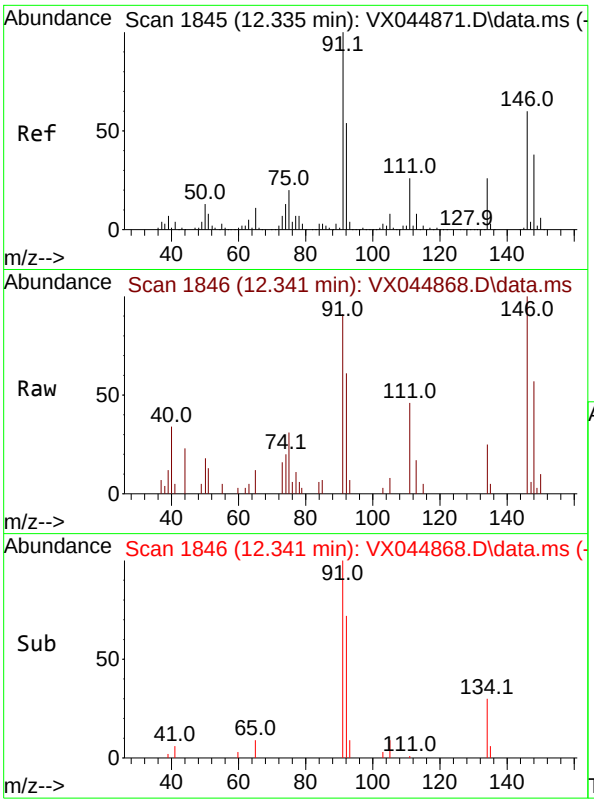


#90
Hexachloroethane
Concen: 0.866 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 968

Ion	Ratio	Lower	Upper
117	100		
201	66.8	32.5	97.5

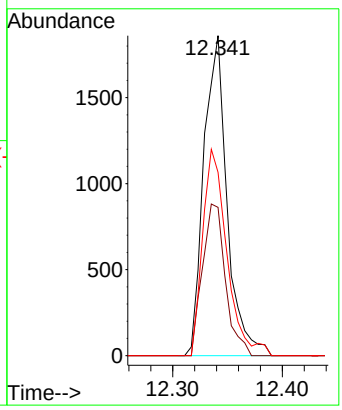




#91
1,2-Dichlorobenzene
Concen: 0.917 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:146 Resp: 274

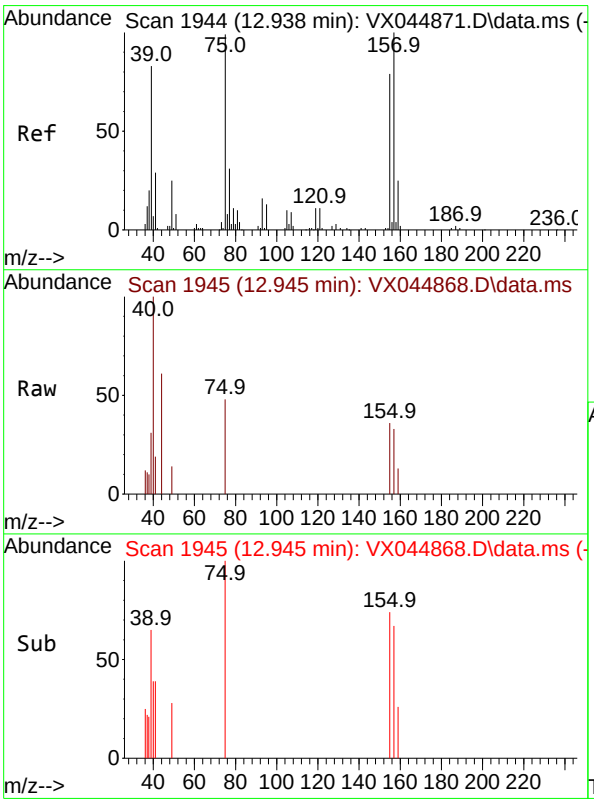
Ion	Ratio	Lower	Upper
146	100		
111	46.7	21.8	65.4
148	67.2	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

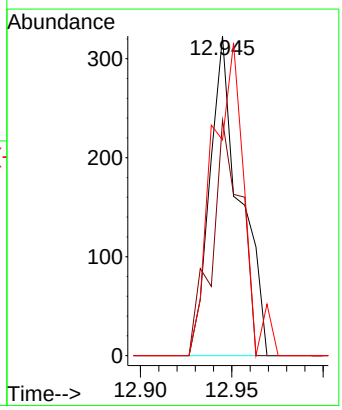
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

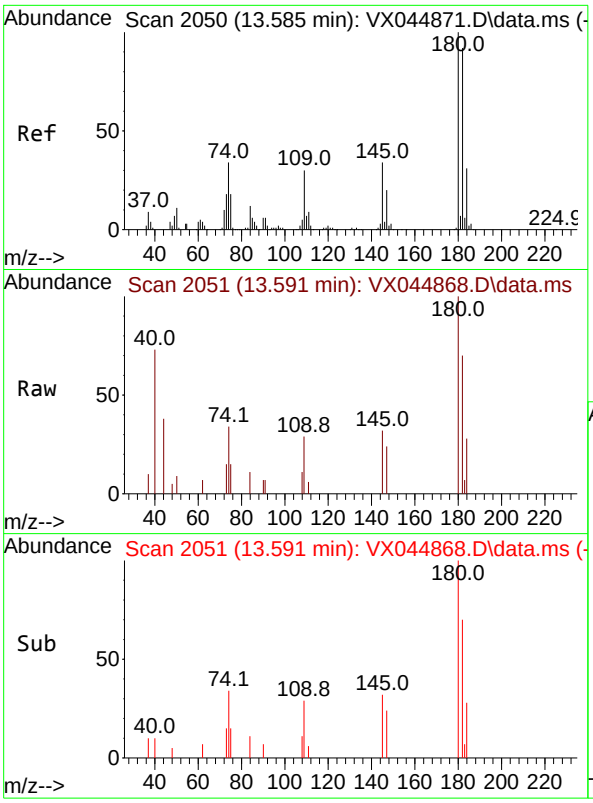


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.801 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 367

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

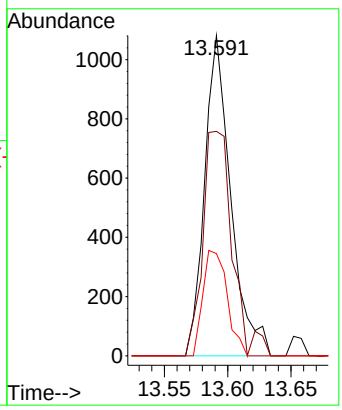




#93
1,2,4-Trichlorobenzene
Concen: 0.861 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:180 Resp: 156

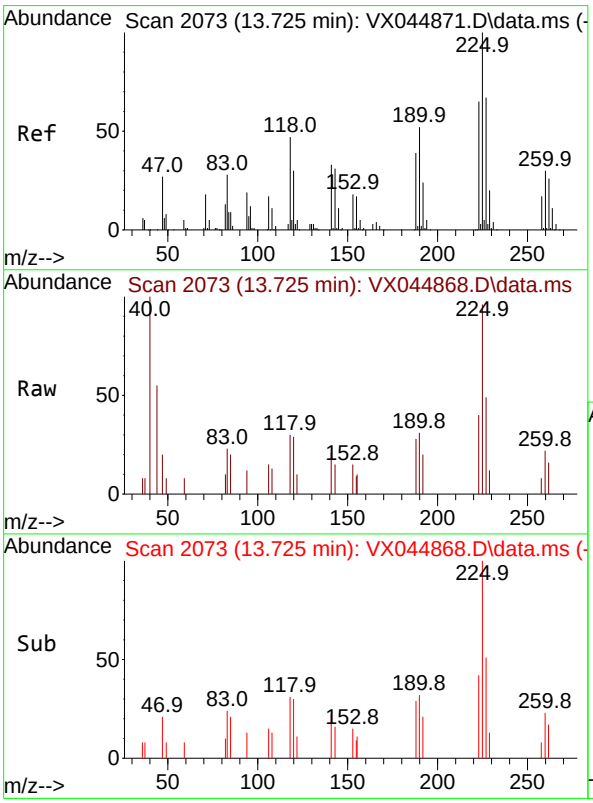
Ion	Ratio	Lower	Upper
180	100		
182	78.7	47.6	142.8
145	30.4	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

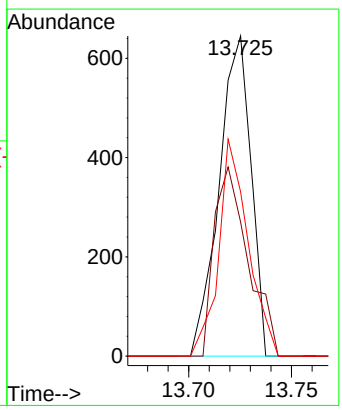
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

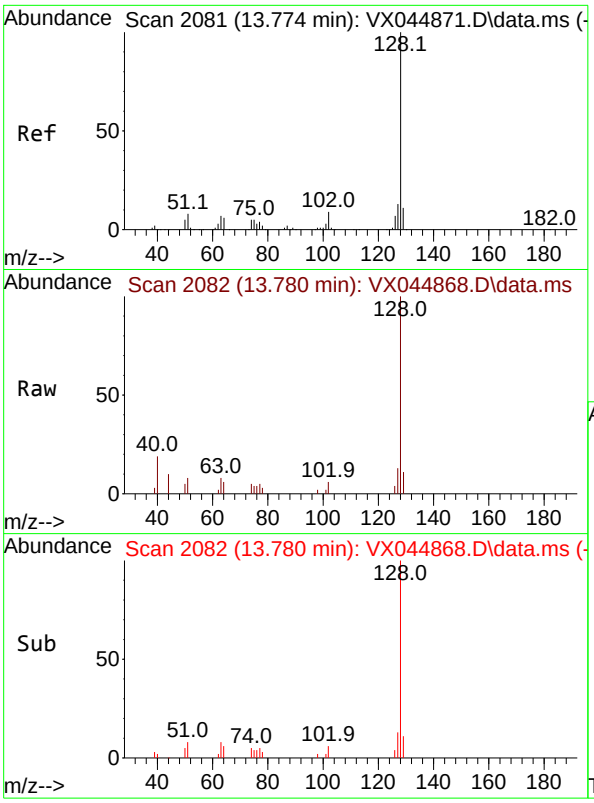


#94
Hexachlorobutadiene
Concen: 0.966 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:225 Resp: 695

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

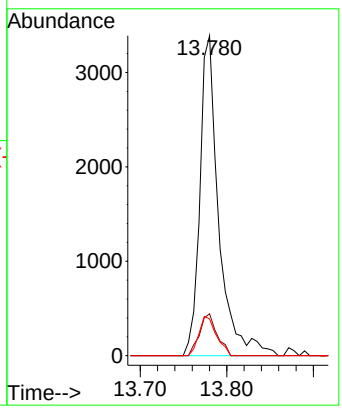




#95
Naphthalene
Concen: 0.783 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:128 Resp: 512

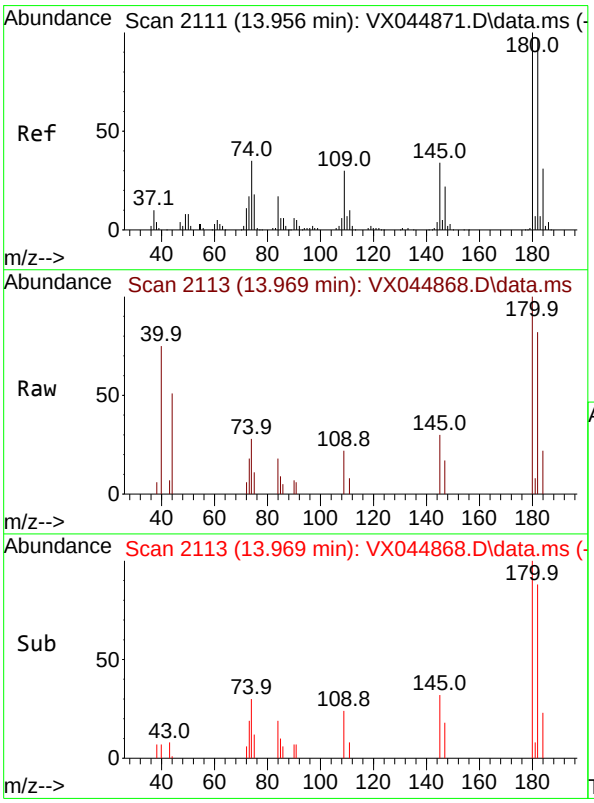
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.1	15.1
129	11.3	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

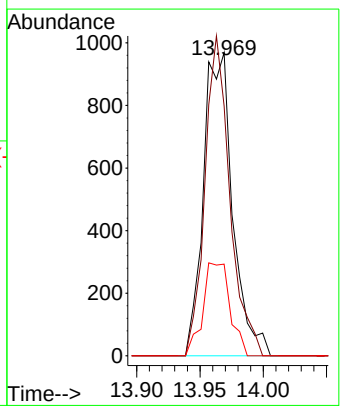
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



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

Tgt Ion:180 Resp: 1557

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



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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

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

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

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

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

ICAL Form

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

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

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

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

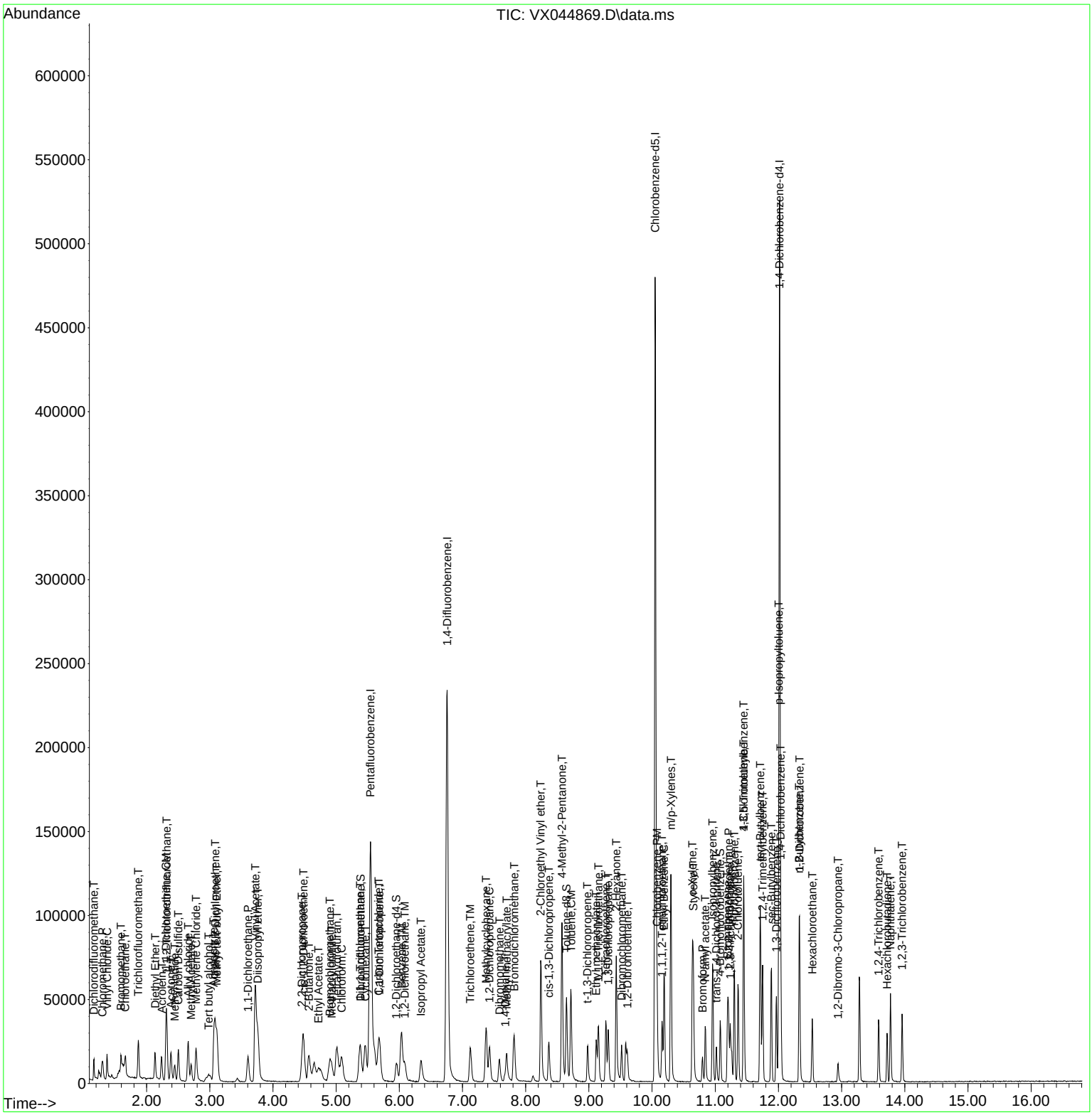
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

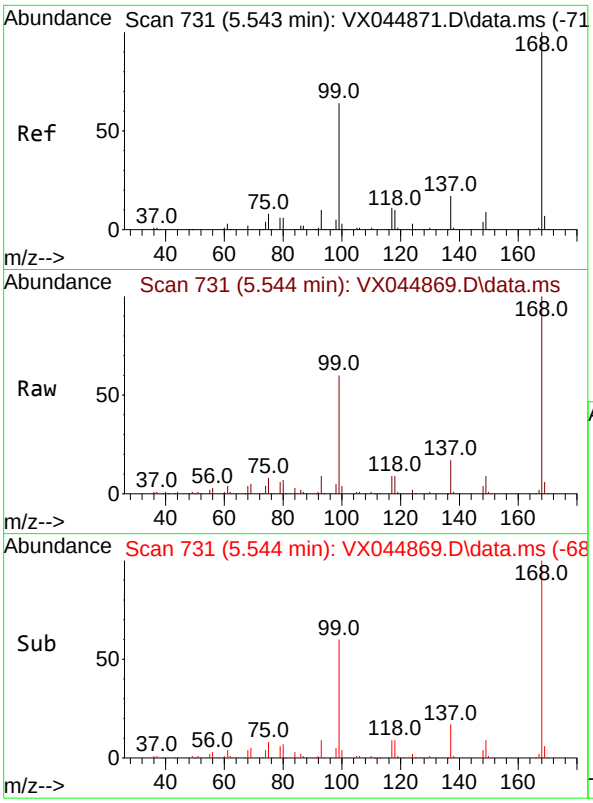
Quant Time: Feb 11 03:36:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:33:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

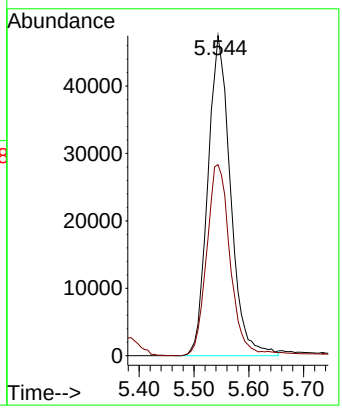




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:168 Resp: 13610

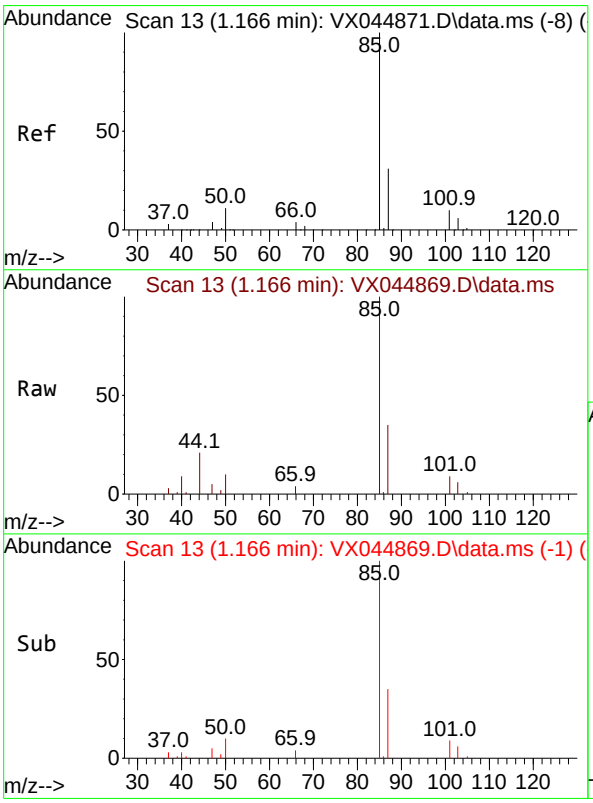
Ion	Ratio	Lower	Upper
168	100		
99	59.7	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

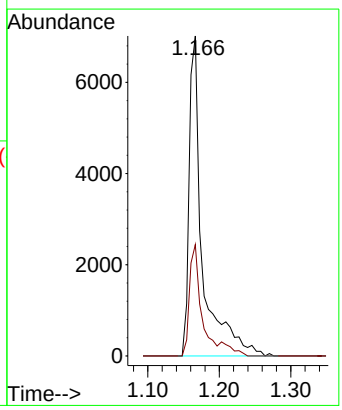
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

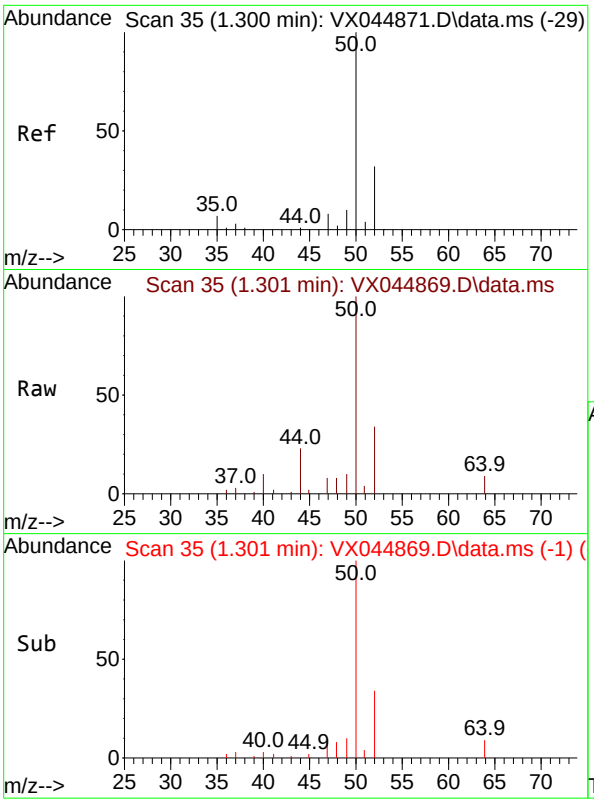


#2
Dichlorodifluoromethane
Concen: 4.772 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 85 Resp: 9109

Ion	Ratio	Lower	Upper
85	100		
87	34.8	15.8	47.3

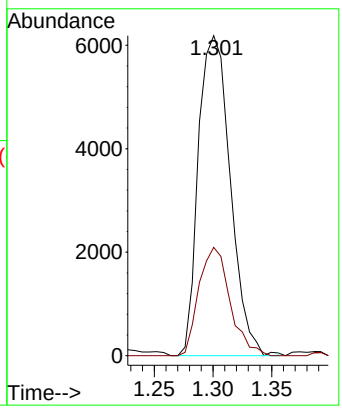




#3
Chloromethane
Concen: 5.041 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 50 Resp: 1171

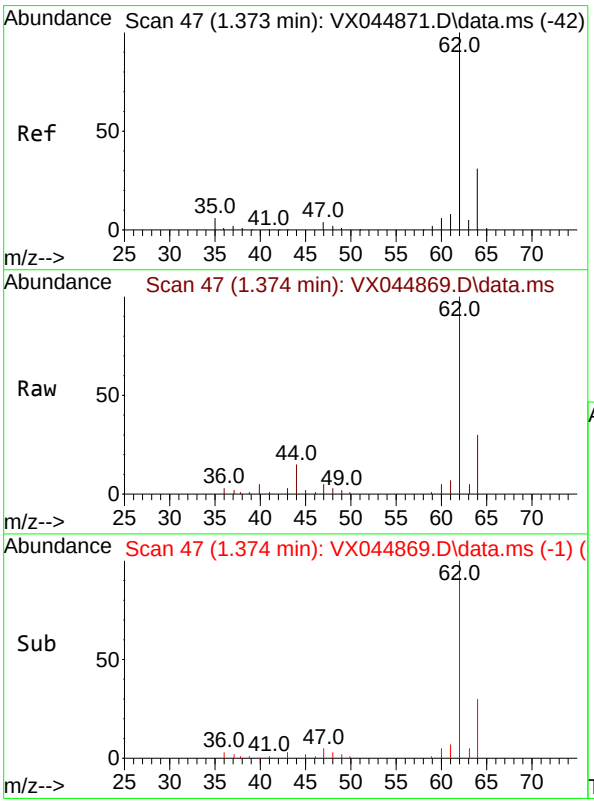
Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

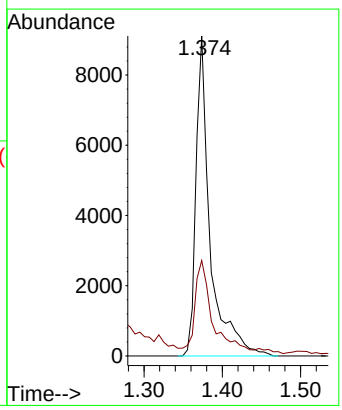
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

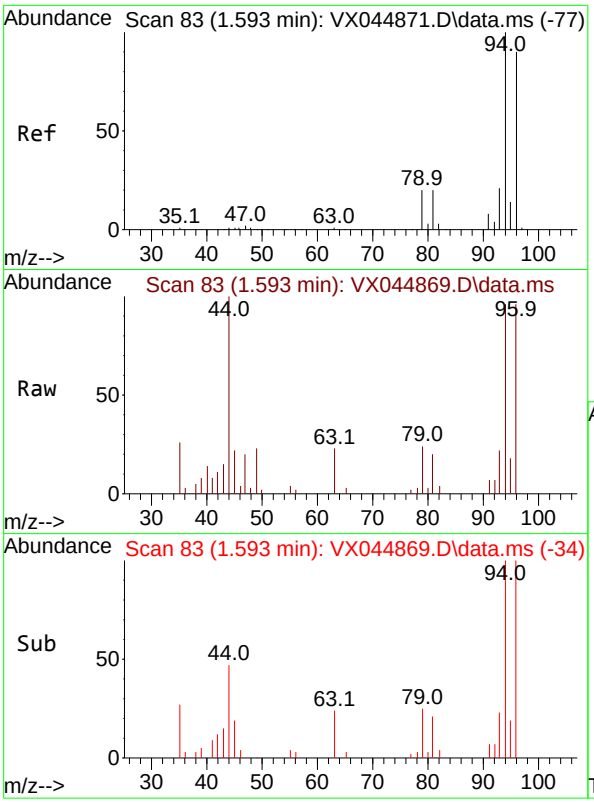


#4
Vinyl Chloride
Concen: 5.113 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11509

Ion	Ratio	Lower	Upper
62	100		
64	28.4	25.4	38.0

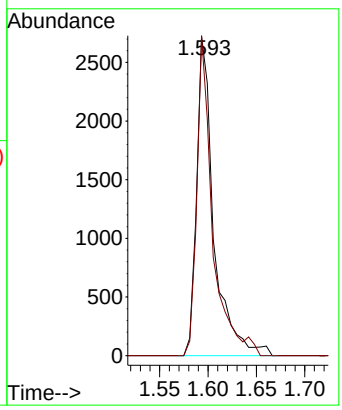




#5
Bromomethane
Concen: 5.005 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 94 Resp: 337

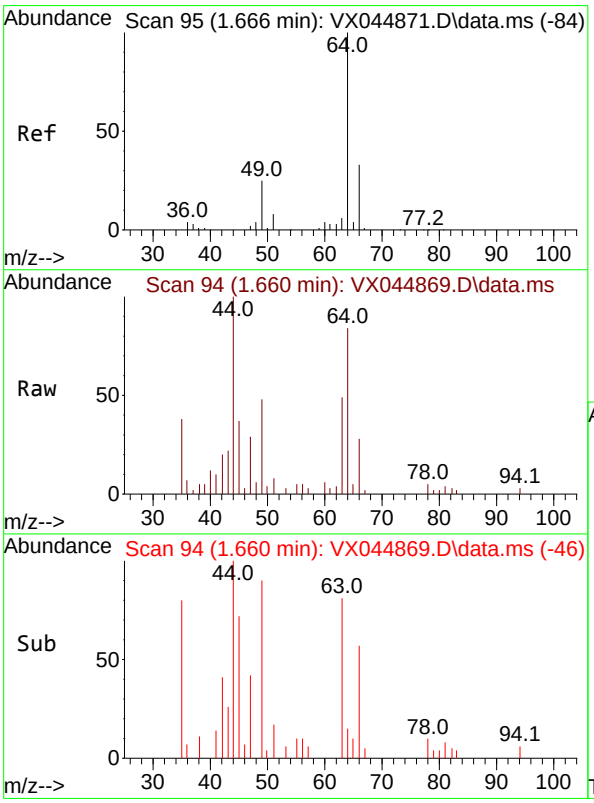
Ion	Ratio	Lower	Upper
94	100		
96	100.2	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

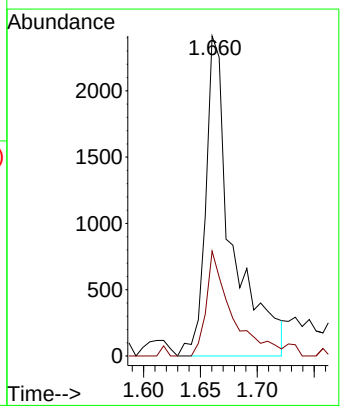
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

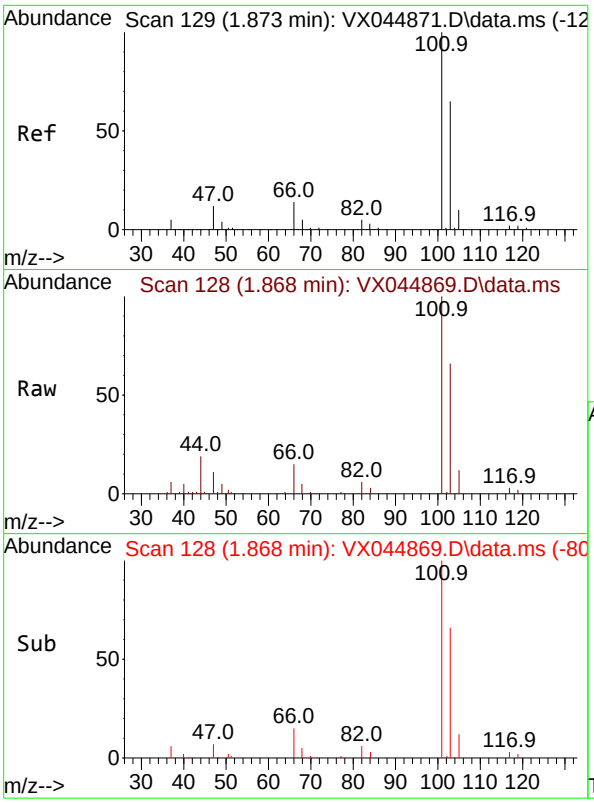


#6
Chloroethane
Concen: 4.973 ug/l m
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 64 Resp: 3918

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.9	38.9

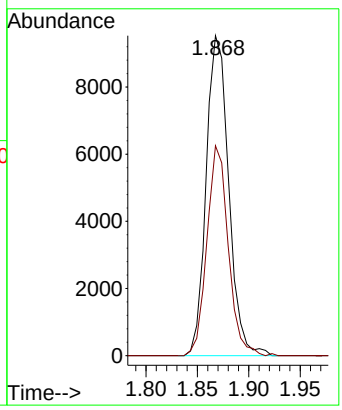




#7
Trichlorofluoromethane
Concen: 5.096 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.005 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:101 Resp: 1450

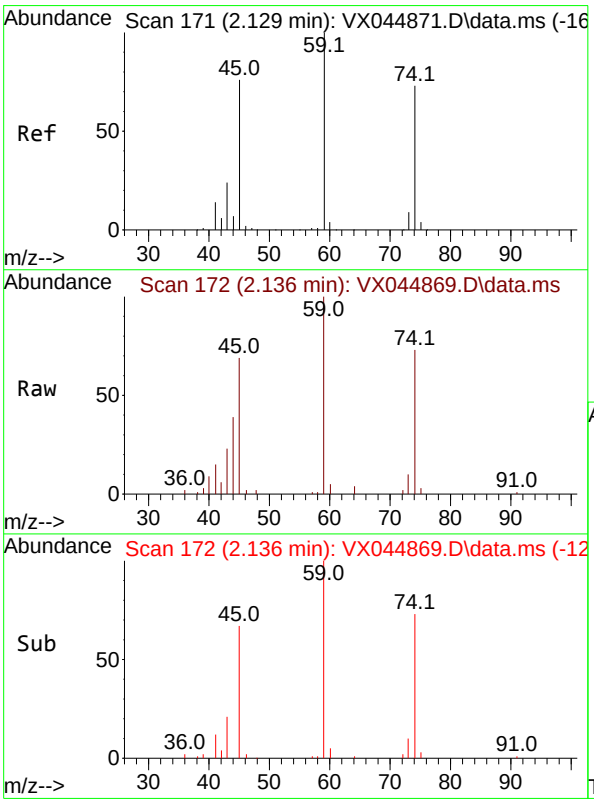
Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

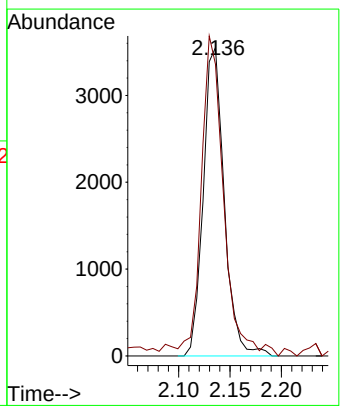
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

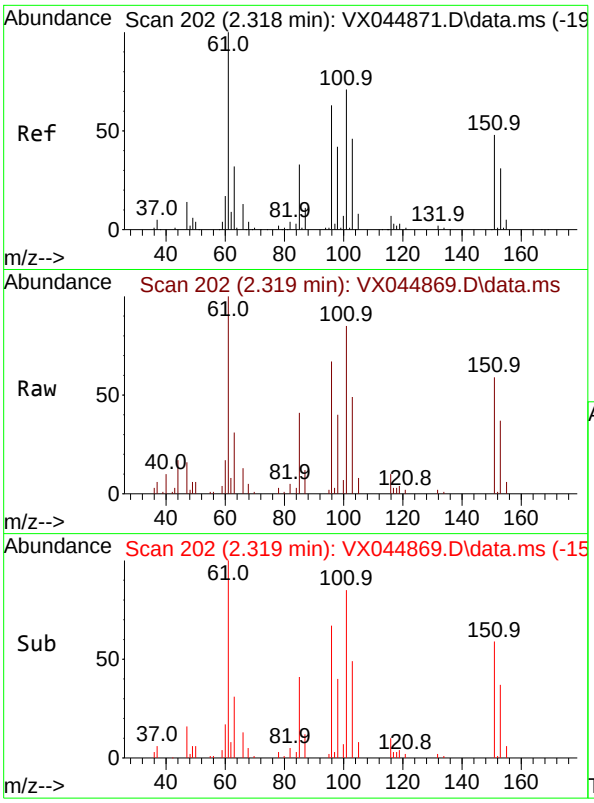


#8
Diethyl Ether
Concen: 4.904 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.007 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 74 Resp: 5062

Ion	Ratio	Lower	Upper
74	100		
45	112.2	51.1	153.4

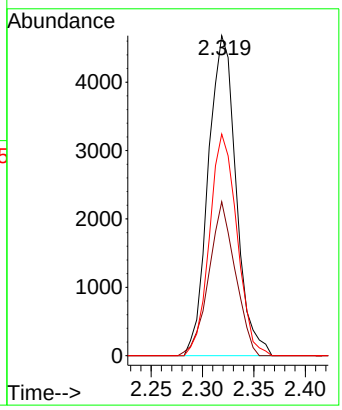




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.120 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:101 Resp: 880

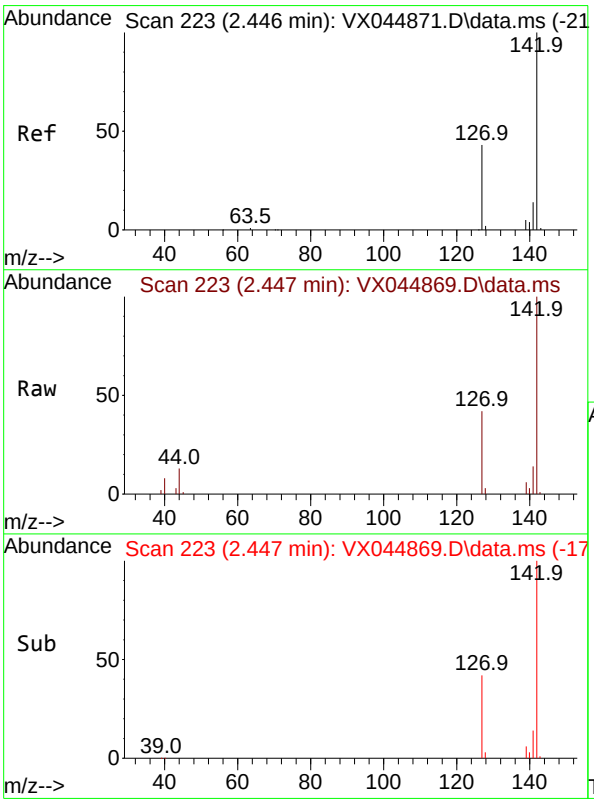
Ion	Ratio	Lower	Upper
101	100		
85	45.5	35.7	53.5
151	68.3	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

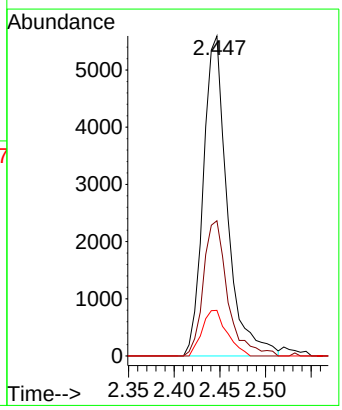
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

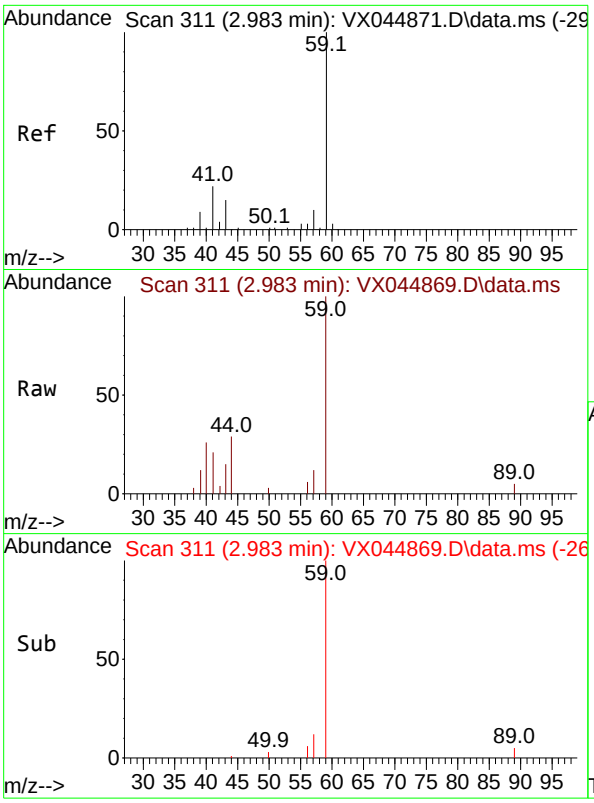


#10
Methyl Iodide
Concen: 4.591 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:142 Resp: 10233

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

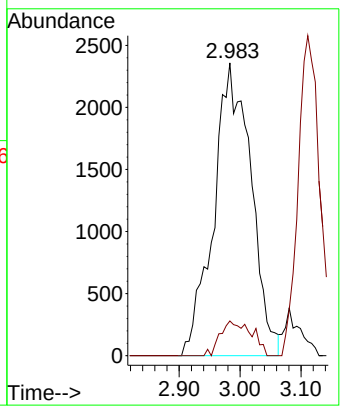




#11
Tert butyl alcohol
Concen: 27.175 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 59 Resp: 1004

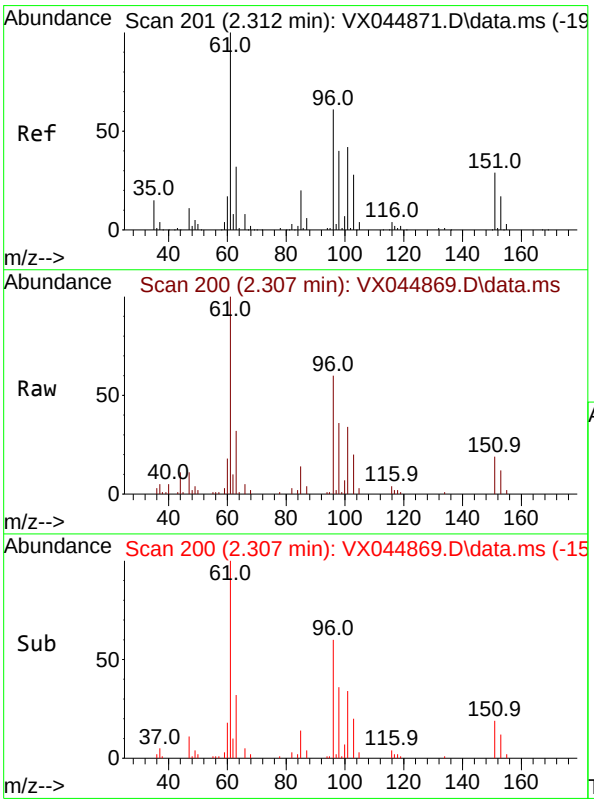
Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

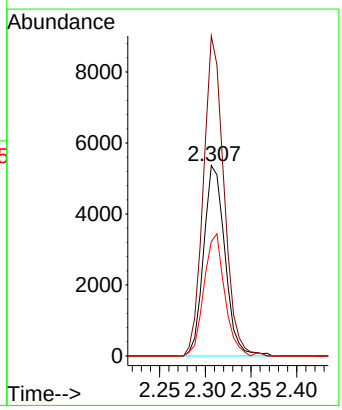
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

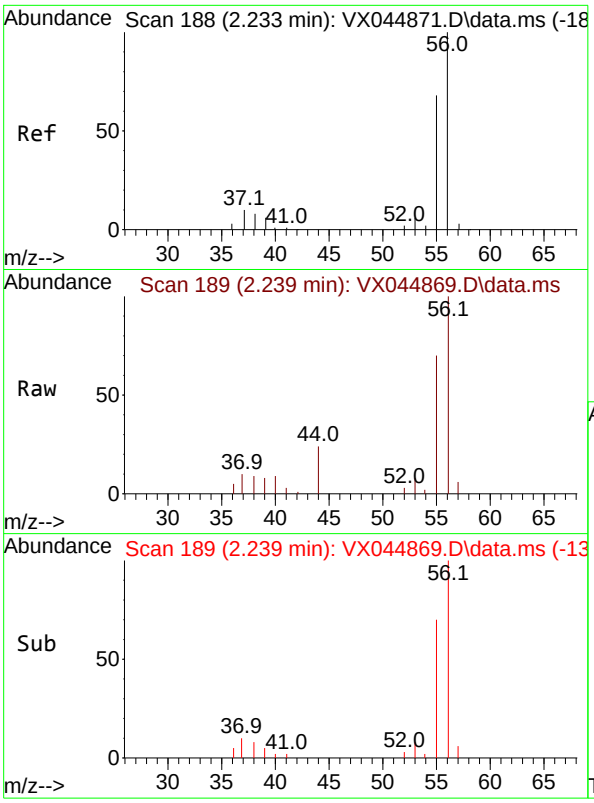


#12
1,1-Dichloroethene
Concen: 4.955 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 96 Resp: 8692

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

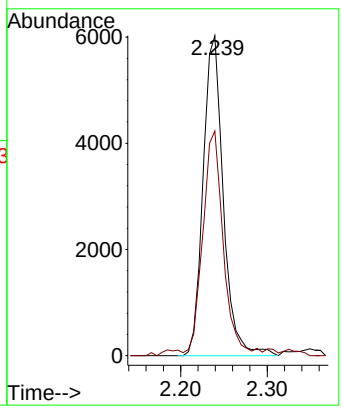




#13
Acrolein
Concen: 25.567 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 56 Resp: 975

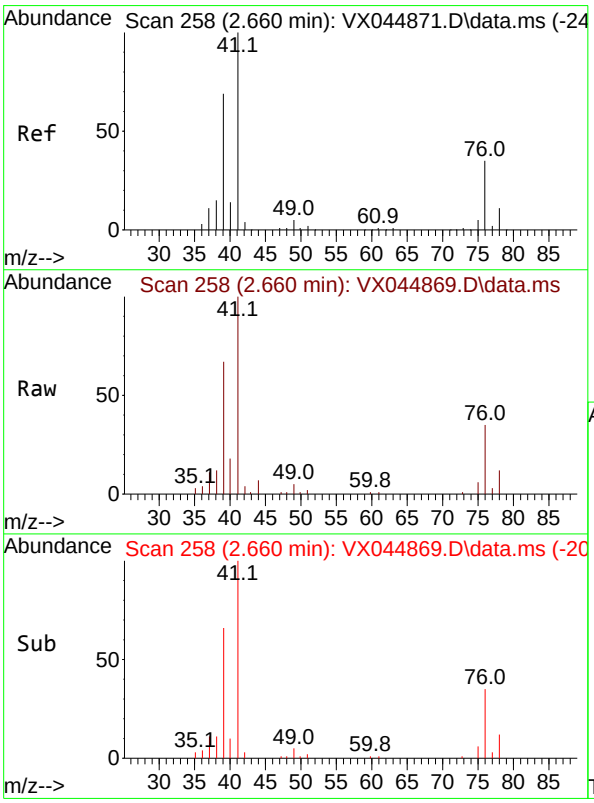
Ion	Ratio	Lower	Upper
56	100		
55	71.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

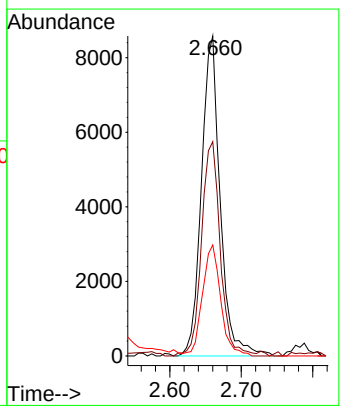
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

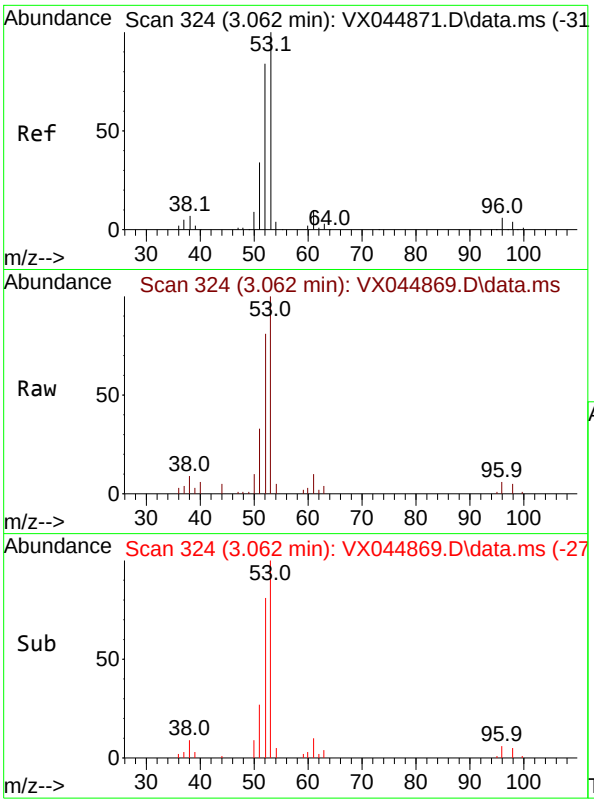


#14
Allyl chloride
Concen: 4.936 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 15649

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

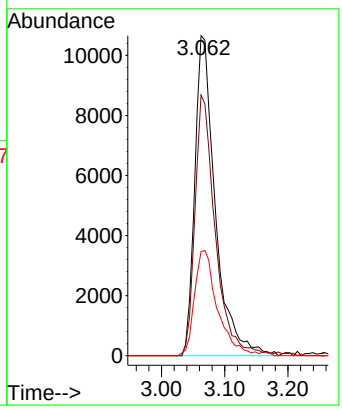




#15
Acrylonitrile
Concen: 24.422 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 53 Resp: 2410

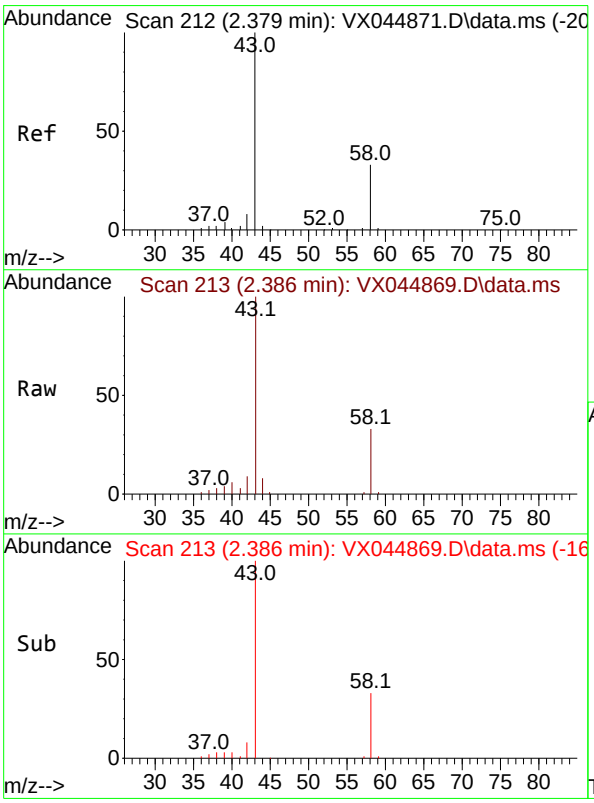
Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	36.6	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

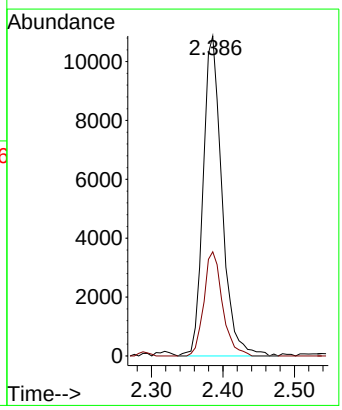
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

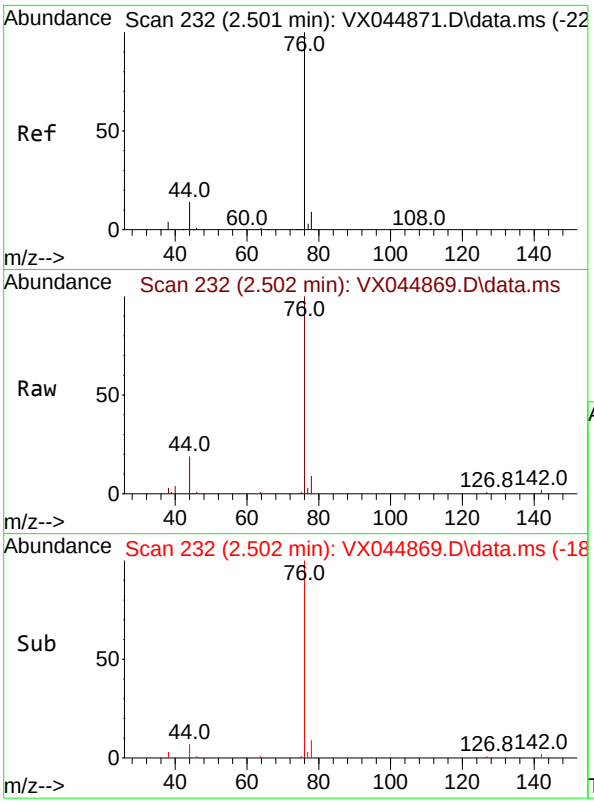


#16
Acetone
Concen: 24.817 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 19877

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7

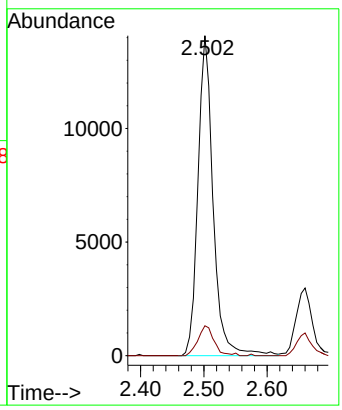




#17
Carbon Disulfide
Concen: 4.899 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 76 Resp: 2356

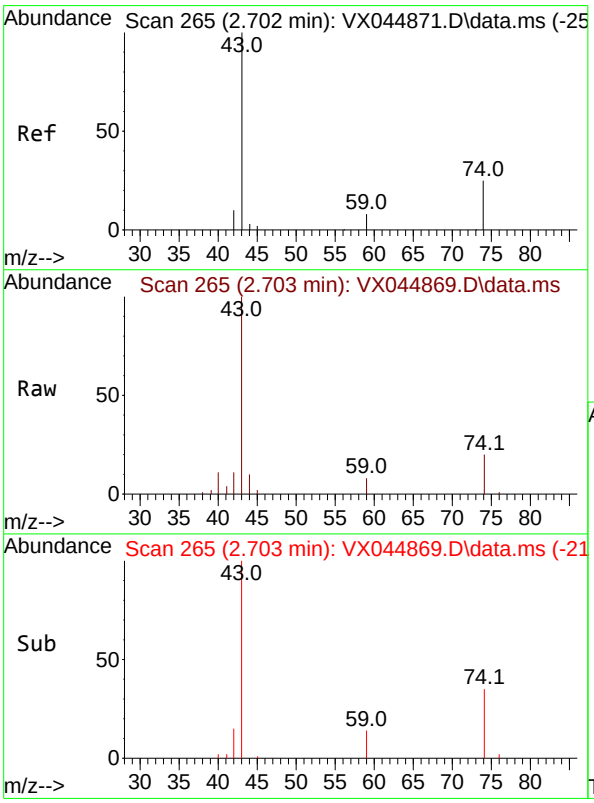
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

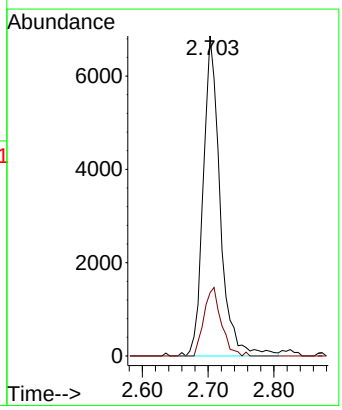
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

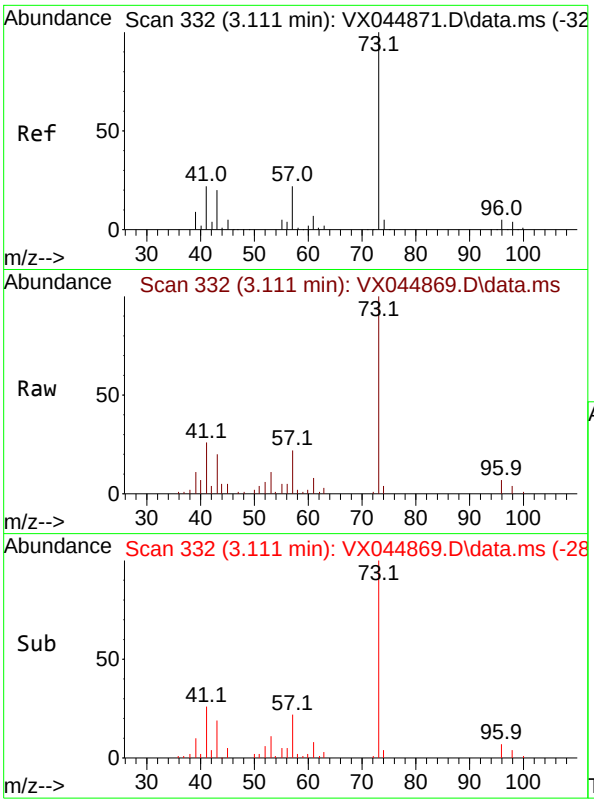


#18
Methyl Acetate
Concen: 4.850 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 12257

Ion	Ratio	Lower	Upper
43	100		
74	22.0	18.9	28.3

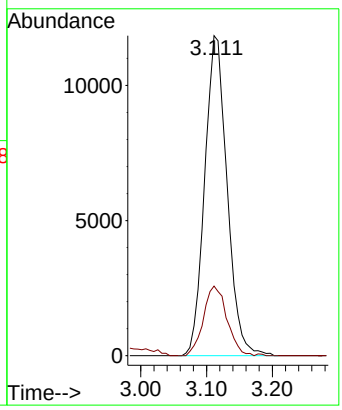




#19
Methyl tert-butyl Ether
Concen: 5.034 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 73 Resp: 2810

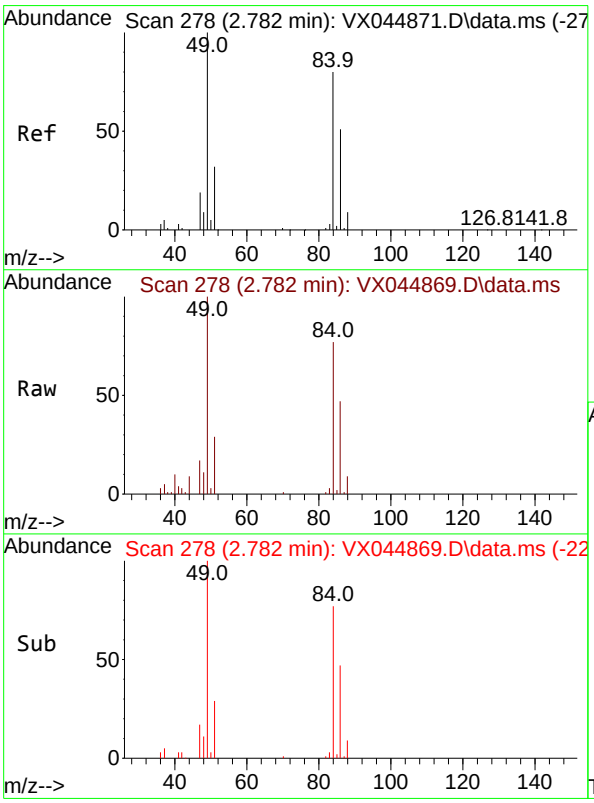
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

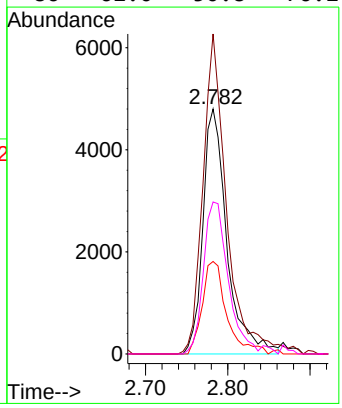
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

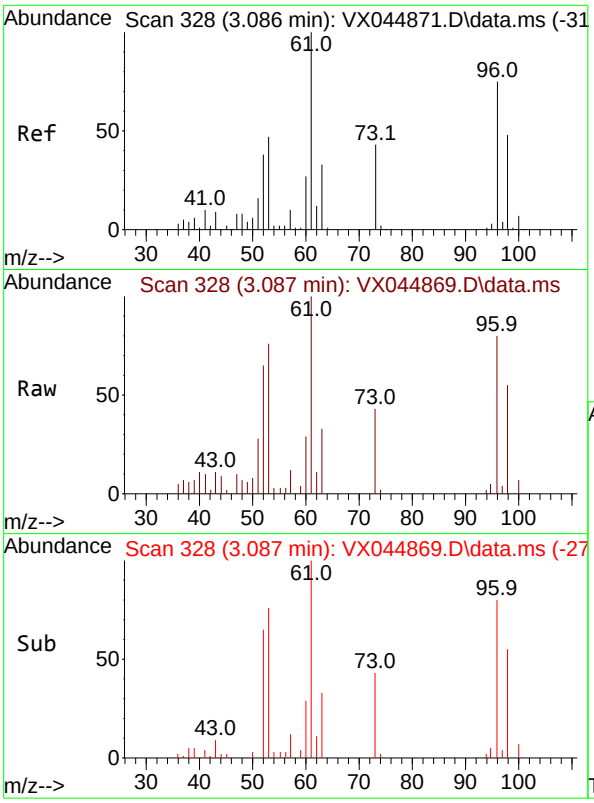


#20
Methylene Chloride
Concen: 4.973 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 84 Resp: 9757

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





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

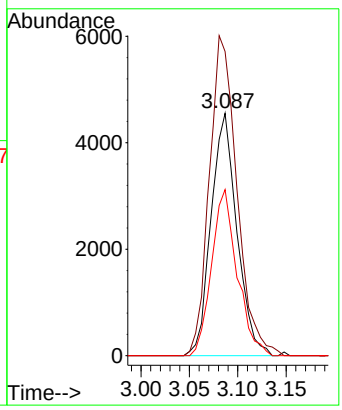
Tgt Ion: 96 Resp: 847

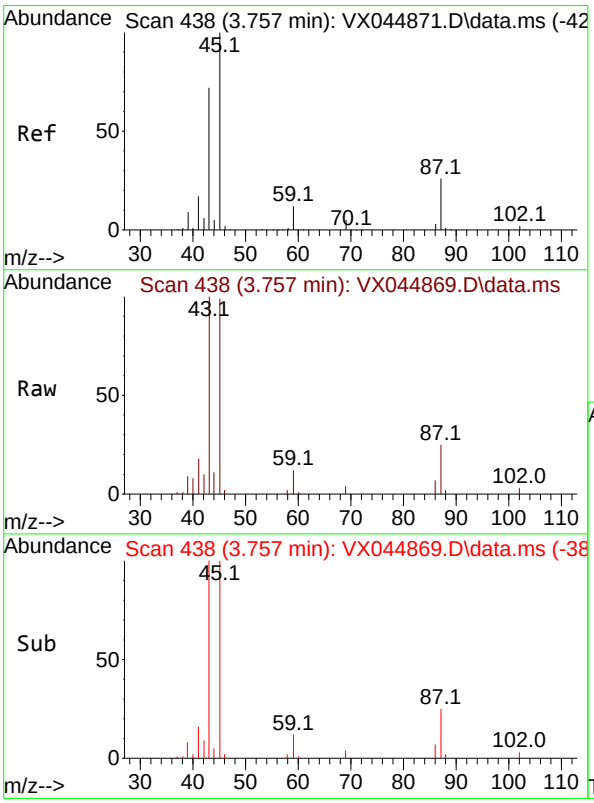
Ion	Ratio	Lower	Upper
96	100		
61	125.5	106.0	159.0
98	68.5	50.6	76.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

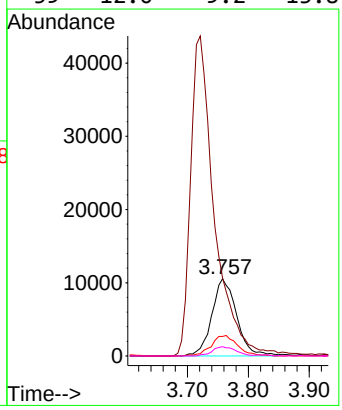


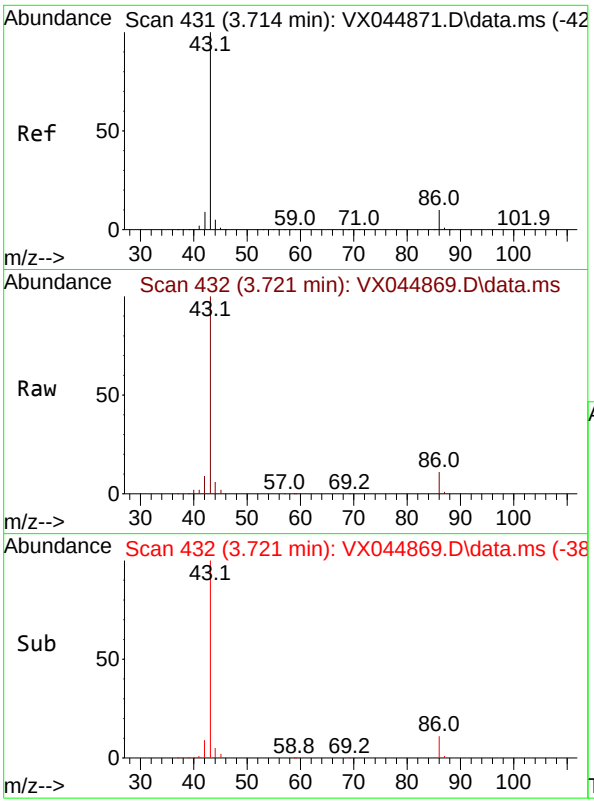


#22
Diisopropyl ether
Concen: 4.963 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 45 Resp: 29768

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





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

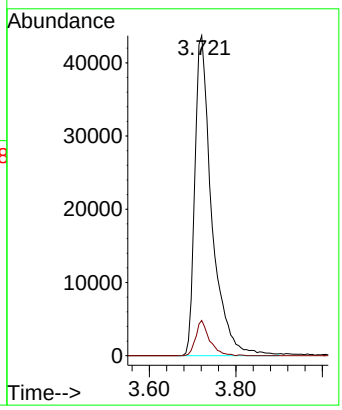
Tgt Ion: 43 Resp: 11910

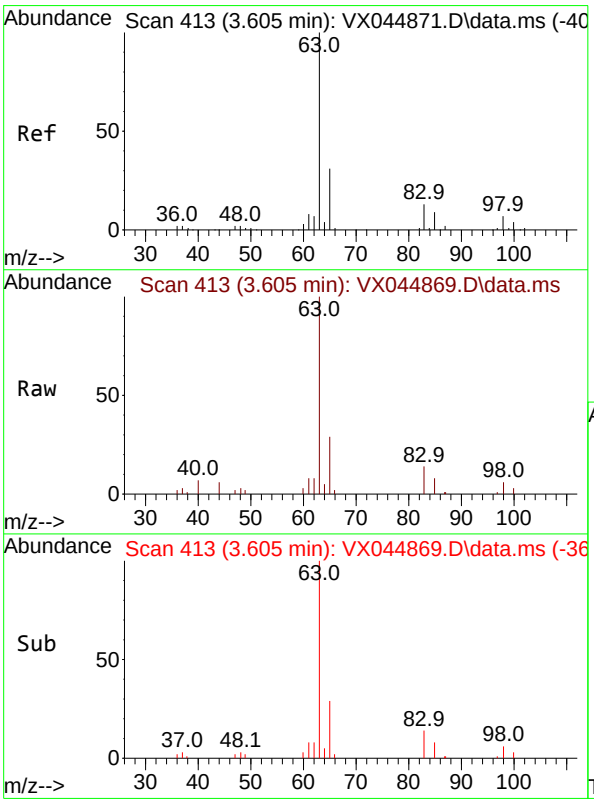
Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

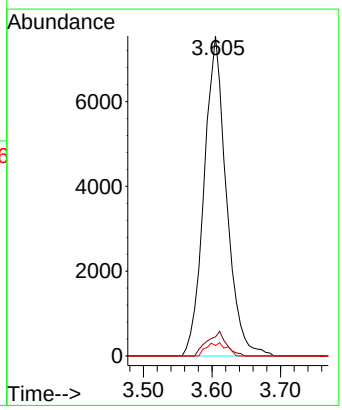


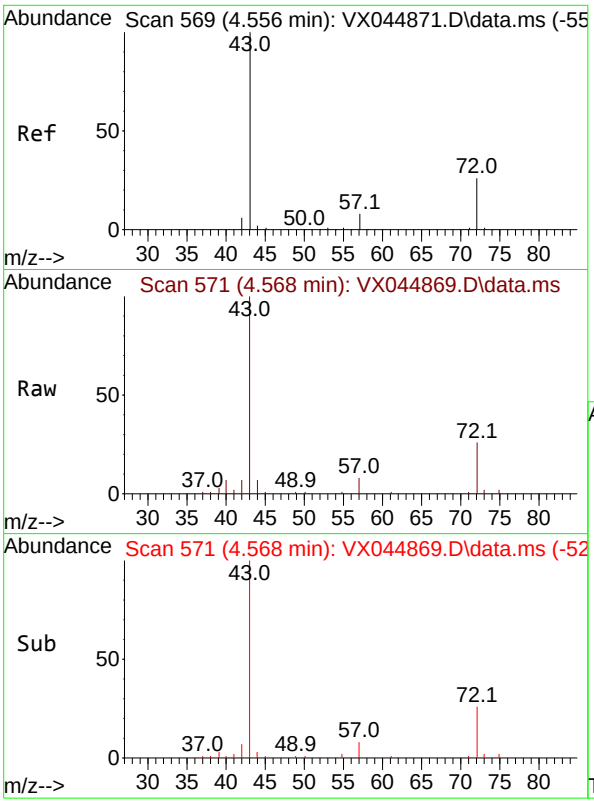


#24
1,1-Dichloroethane
Concen: 5.099 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 17113

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

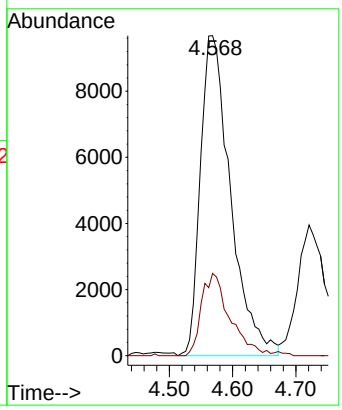




#25
2-Butanone
Concen: 24.698 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 3212

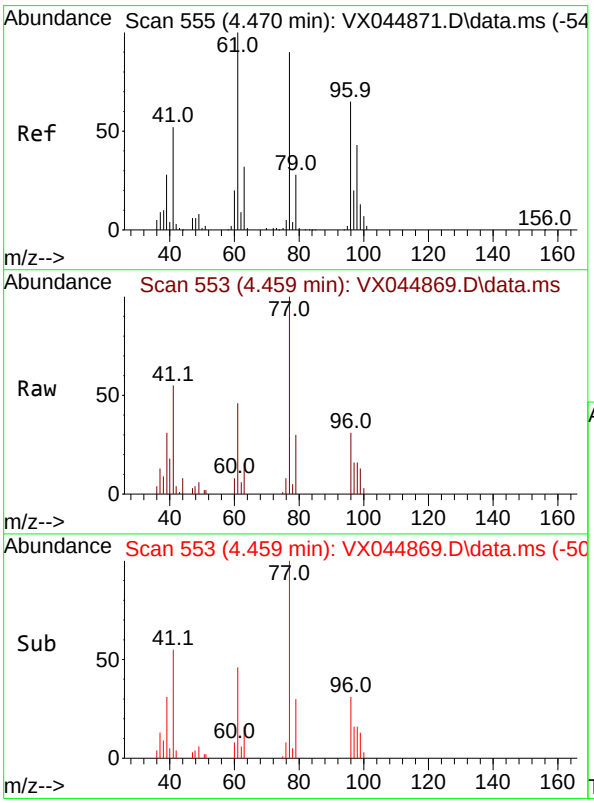
Ion	Ratio	Lower	Upper
43	100		
72	25.7	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

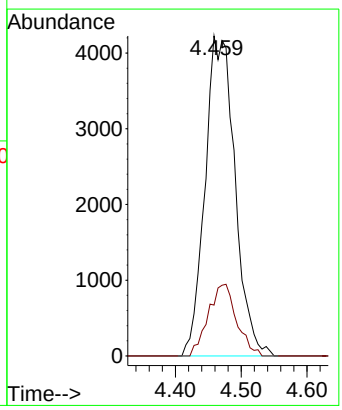
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

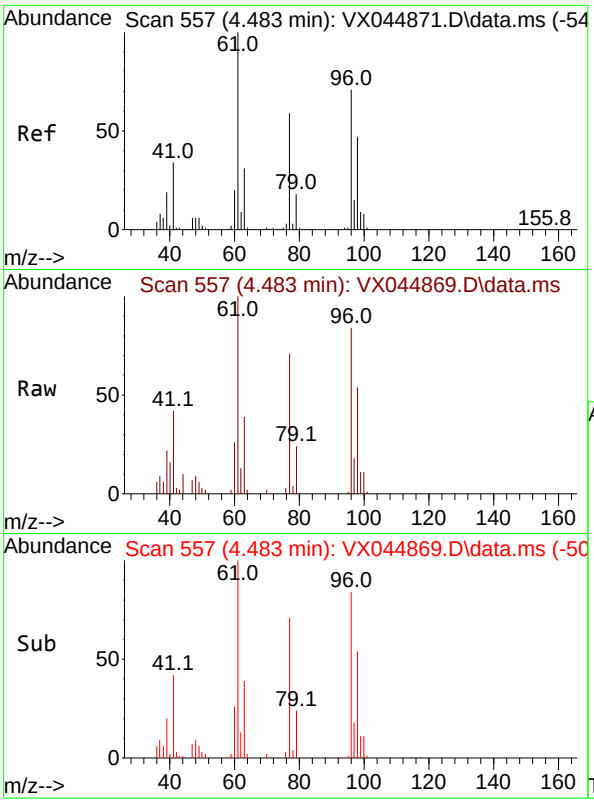


#26
2,2-Dichloropropane
Concen: 5.022 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 77 Resp: 13365

Ion	Ratio	Lower	Upper
77	100		
97	21.2	11.8	35.3

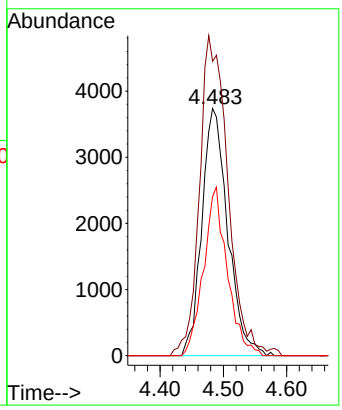




#27
cis-1,2-Dichloroethene
Concen: 5.141 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 96 Resp: 1066

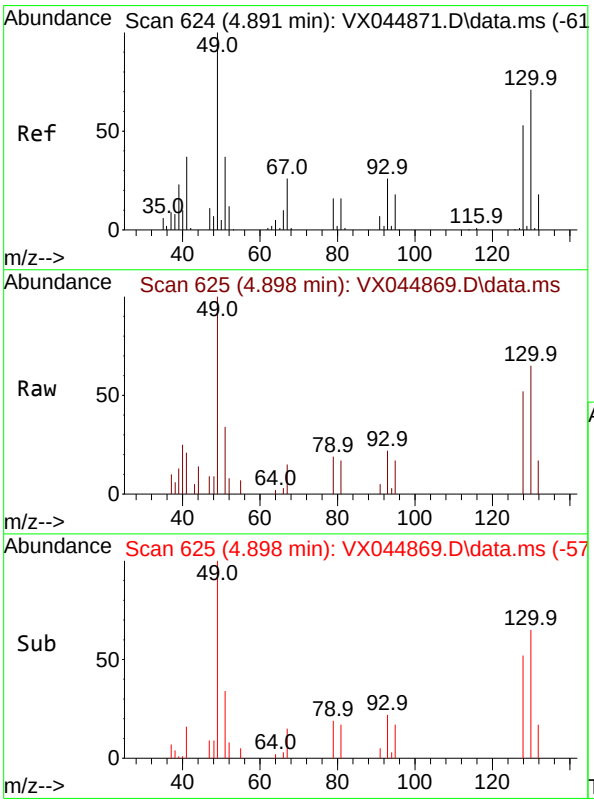
Ion	Ratio	Lower	Upper
96	100		
61	140.8	0.0	294.0
98	62.4	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

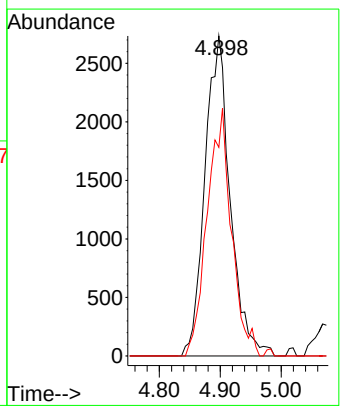
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

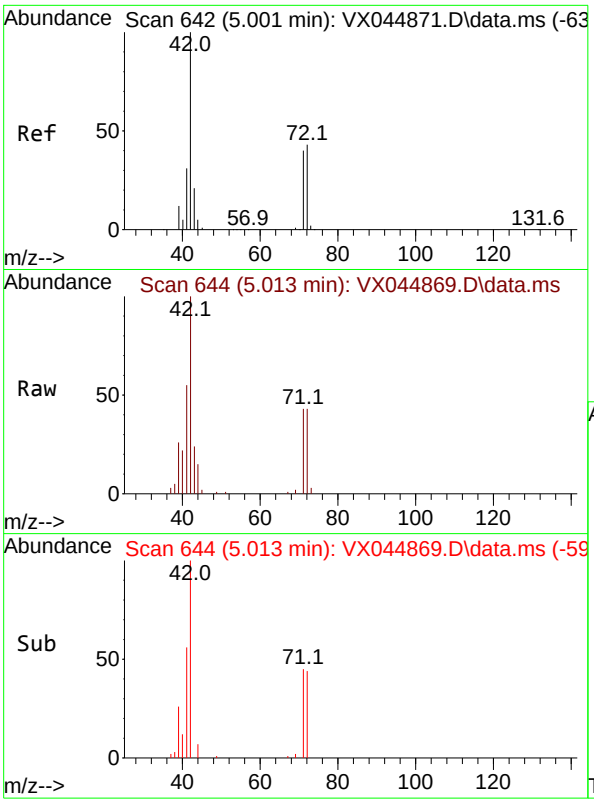


#28
Bromochloromethane
Concen: 4.886 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 49 Resp: 7881

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

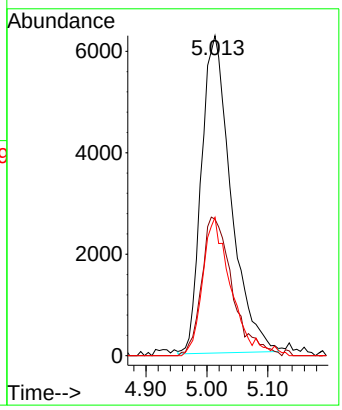




#29
Tetrahydrofuran
Concen: 24.429 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 42 Resp: 2109

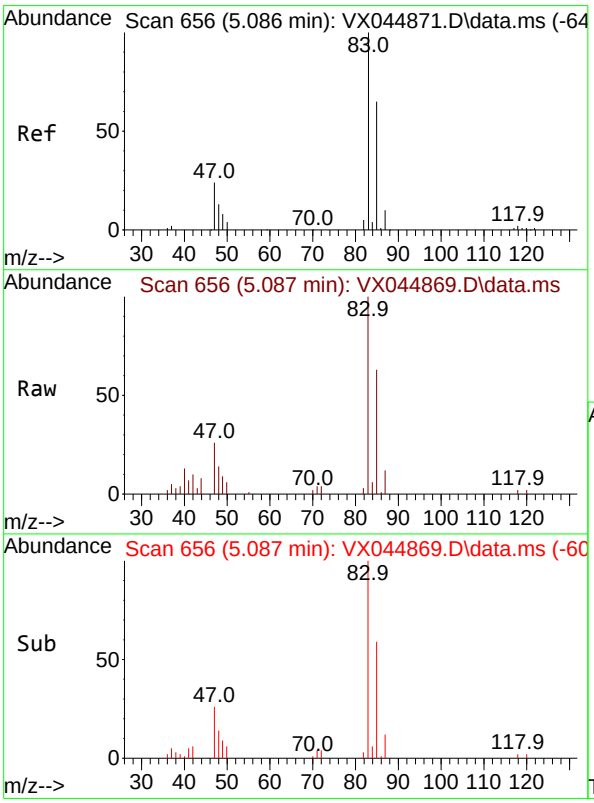
Ion	Ratio	Lower	Upper
42	100		
72	45.3	35.0	52.4
71	41.6	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

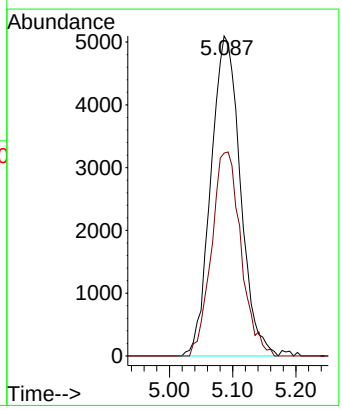
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

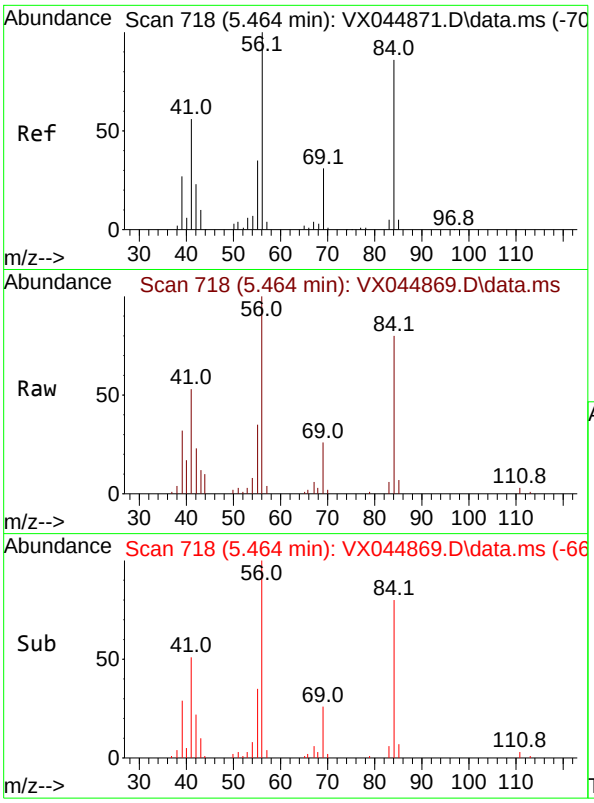


#30
Chloroform
Concen: 5.054 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 16449

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.1	78.1

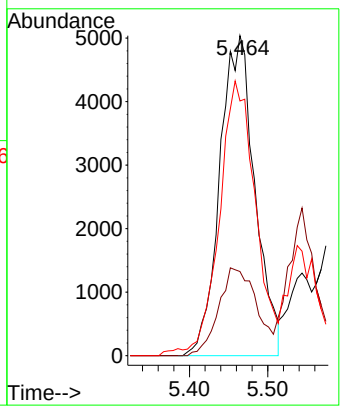




#31
Cyclohexane
Concen: 5.076 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 56 Resp: 1570

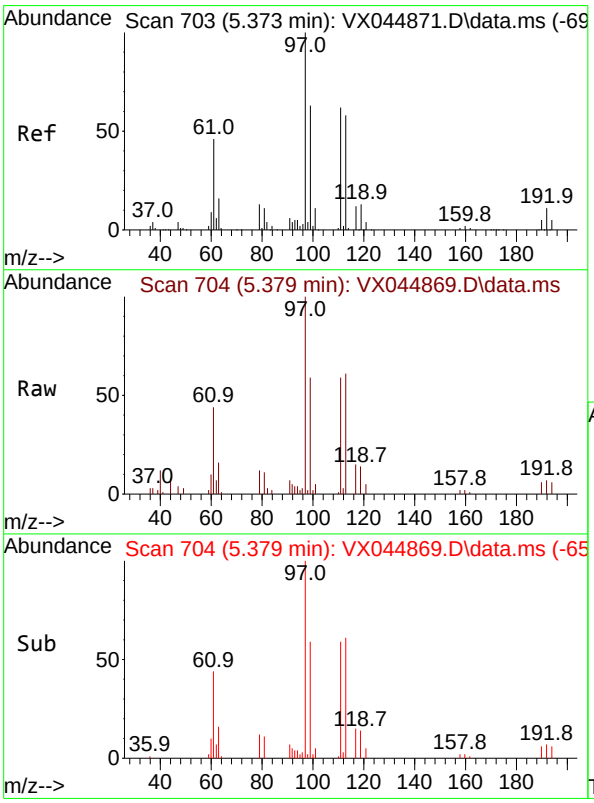
Ion	Ratio	Lower	Upper
56	100		
69	26.3	24.4	36.6
84	77.4	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

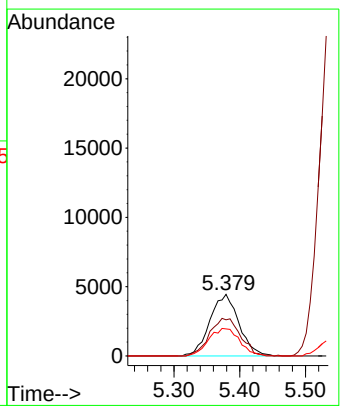
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

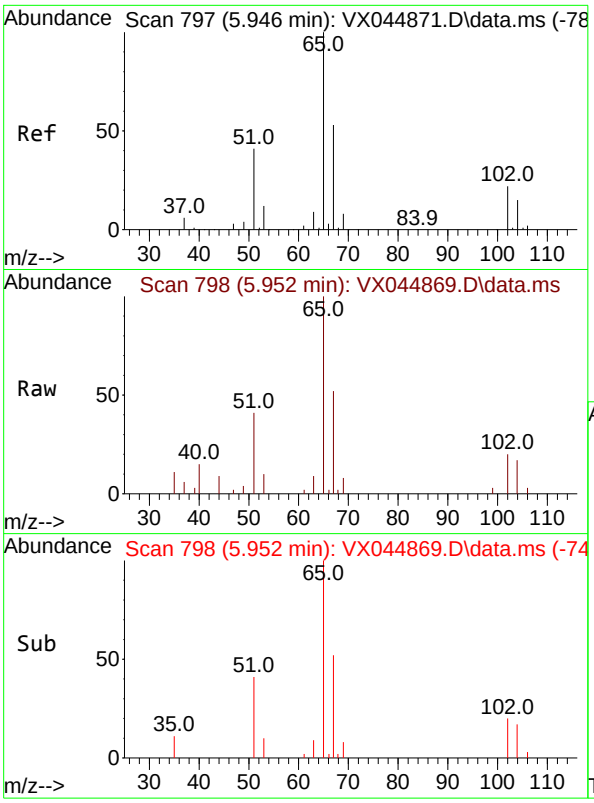


#32
1,1,1-Trichloroethane
Concen: 4.947 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 97 Resp: 13658

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

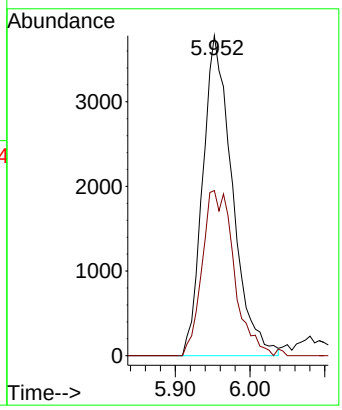




#33
1,2-Dichloroethane-d4
Concen: 5.219 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 65 Resp: 1039

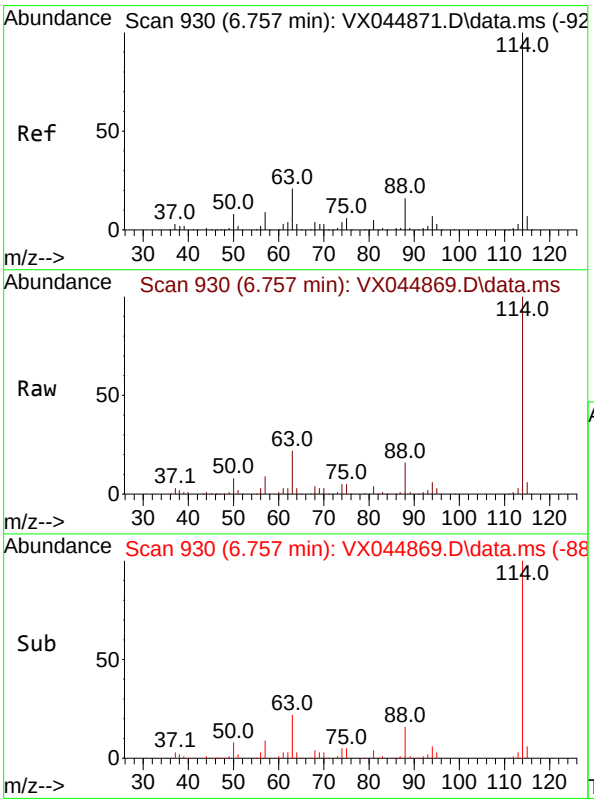
Ion	Ratio	Lower	Upper
65	100		
67	55.6	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

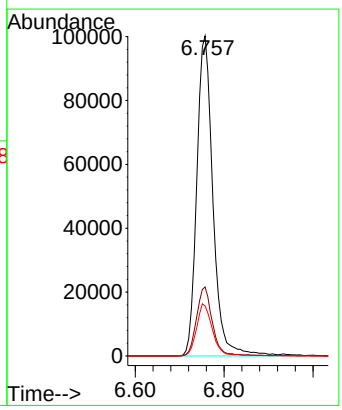
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

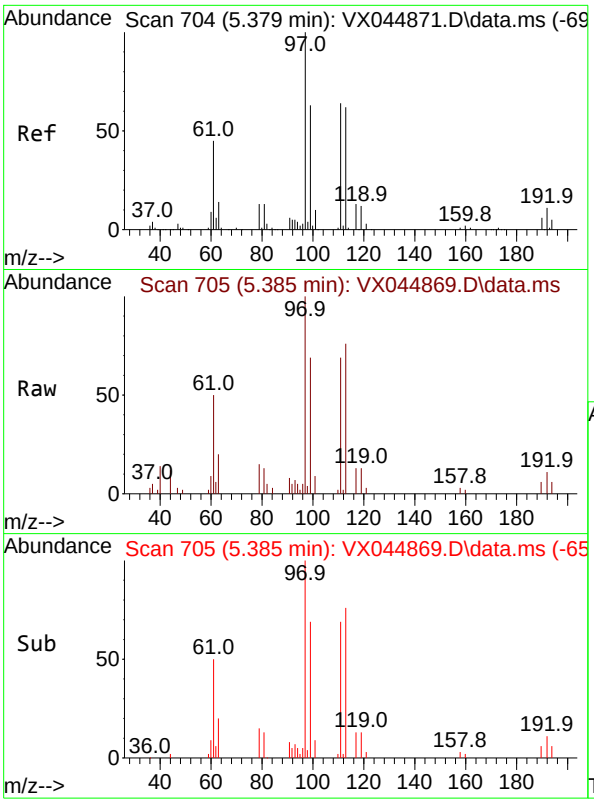


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:114 Resp: 253314

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

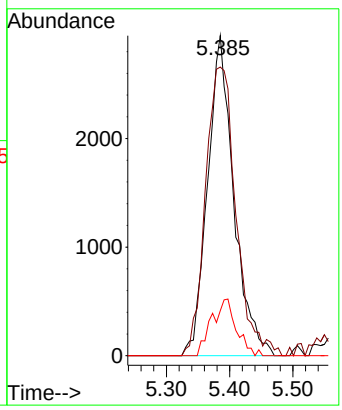




#35
Dibromofluoromethane
Concen: 5.150 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:113 Resp: 848

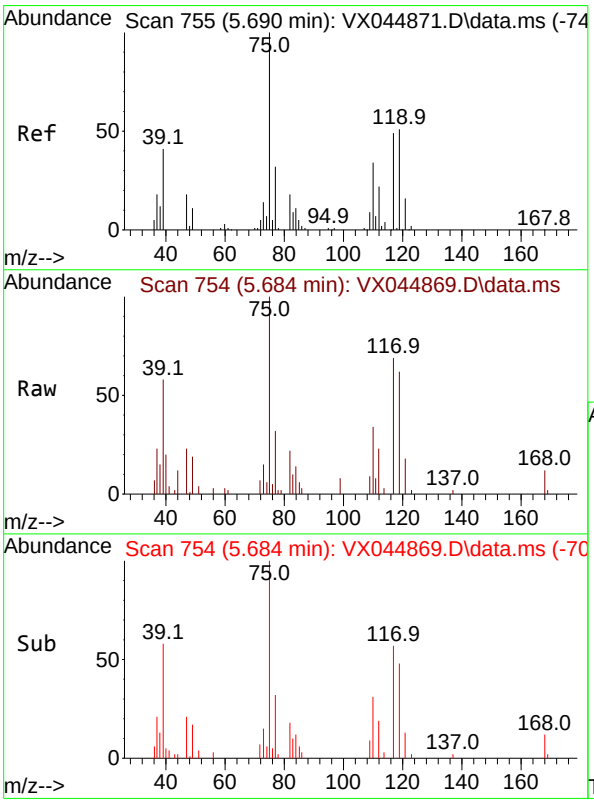
Ion	Ratio	Lower	Upper
113	100		
111	104.6	83.5	125.3
192	16.7	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

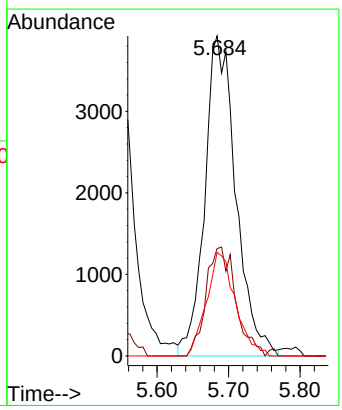
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

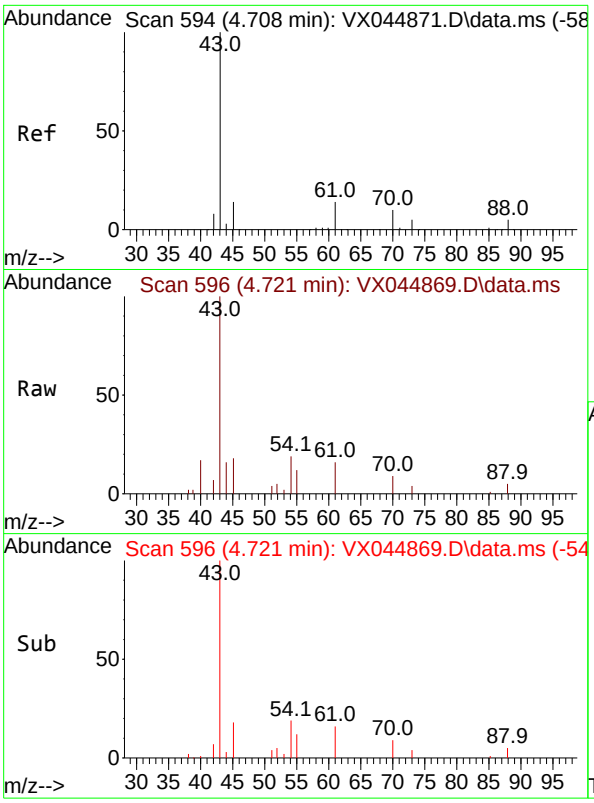


#36
1,1-Dichloropropene
Concen: 4.981 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 11835

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

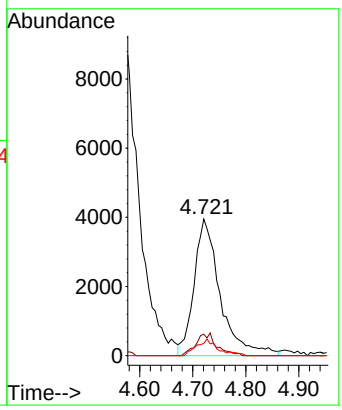




#37
Ethyl Acetate
Concen: 5.122 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 1353

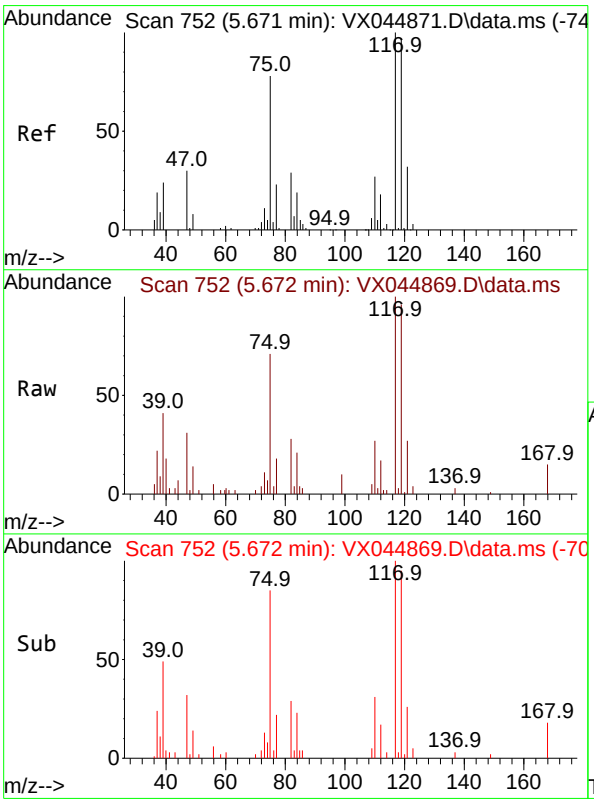
Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.0	16.4
70	9.8	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

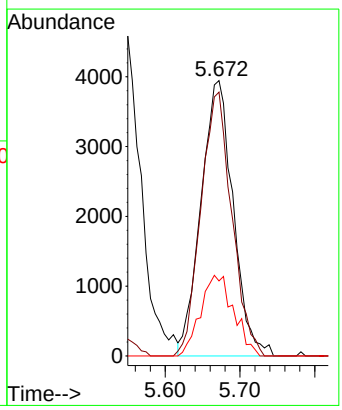
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

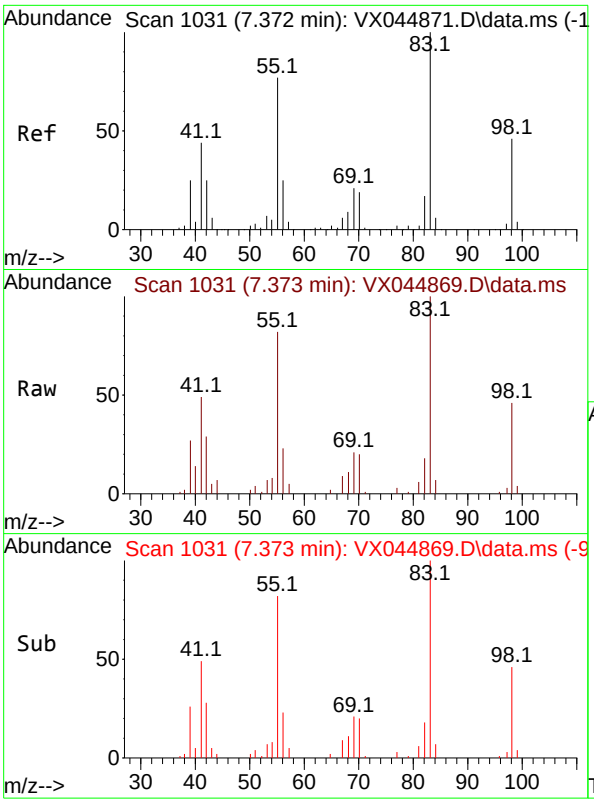


#38
Carbon Tetrachloride
Concen: 5.066 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 11797

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

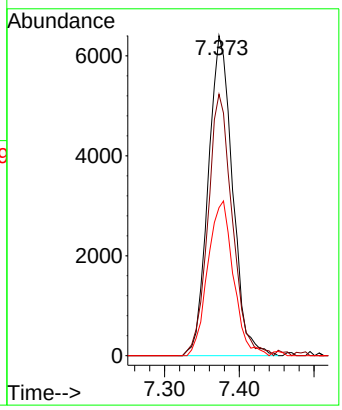




#39
Methylcyclohexane
Concen: 4.711 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 1447

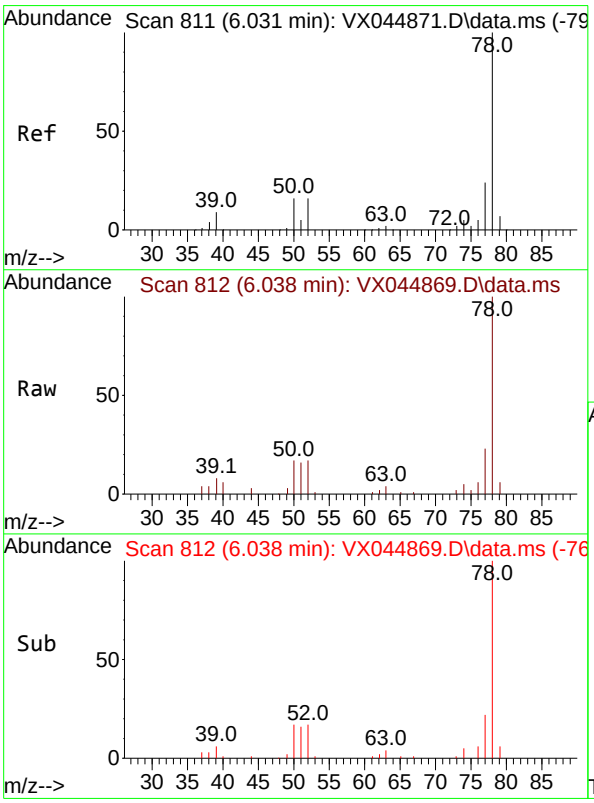
Ion	Ratio	Lower	Upper
83	100		
55	81.7	61.3	91.9
98	46.3	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

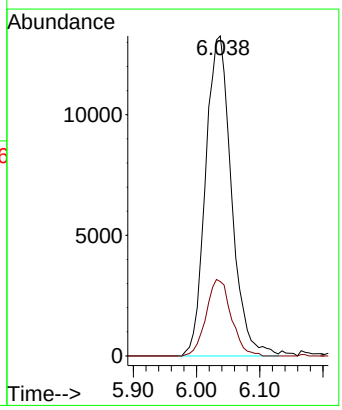
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

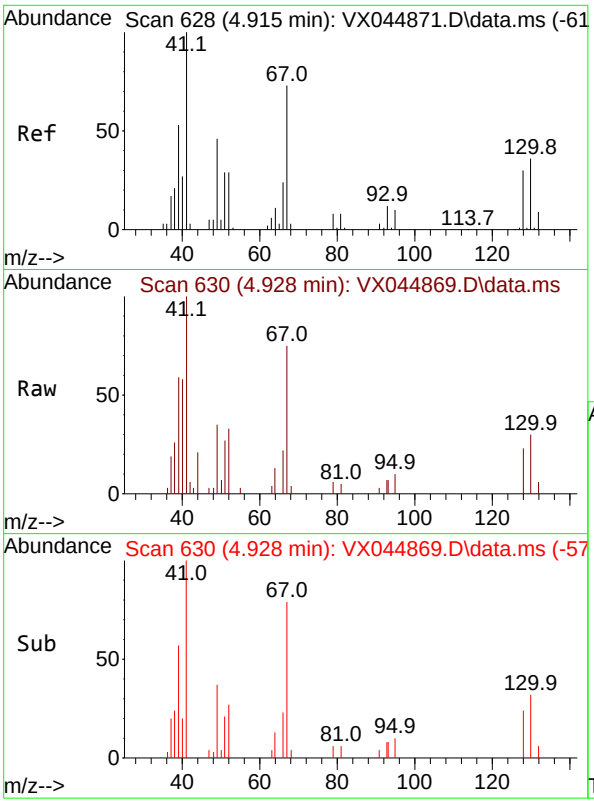


#40
Benzene
Concen: 5.079 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 78 Resp: 37687

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6

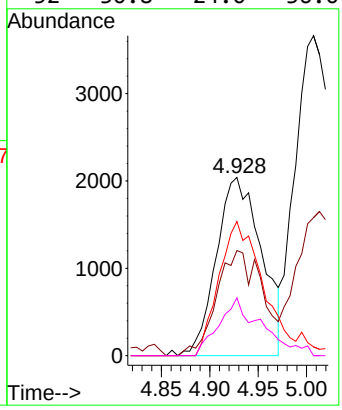




#41
Methacrylonitrile
Concen: 4.699 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 664

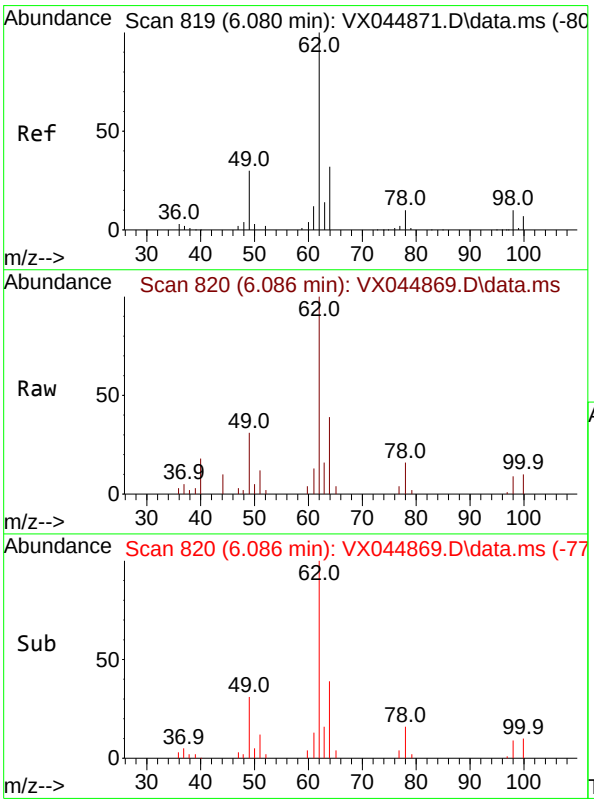
Ion	Ratio	Lower	Upper
41	100		
39	59.4	43.1	64.7
67	72.7	57.0	85.6
52	30.8	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

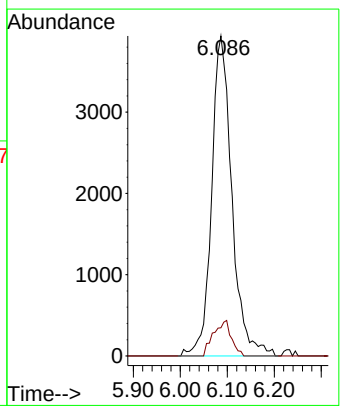
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

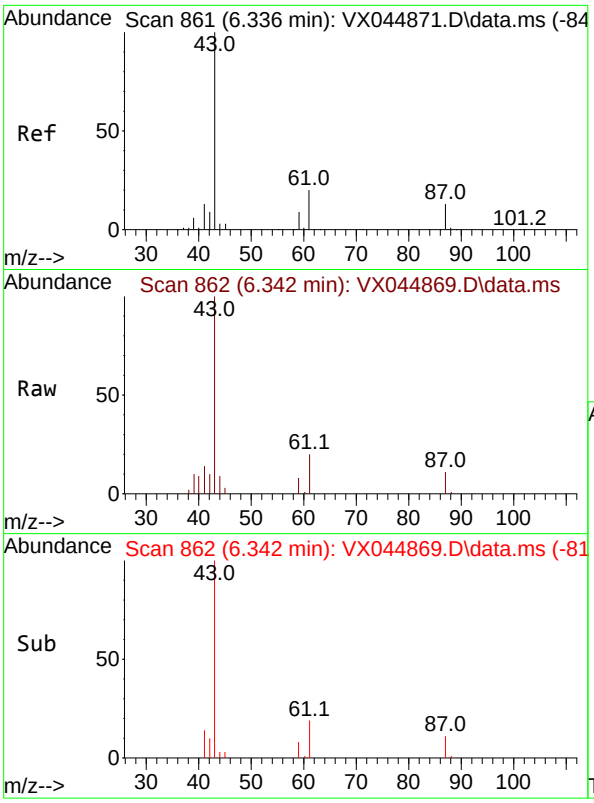


#42
1,2-Dichloroethane
Concen: 4.985 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11789

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4

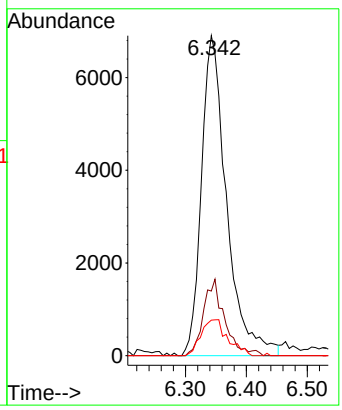




#43
Isopropyl Acetate
Concen: 4.640 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 1980

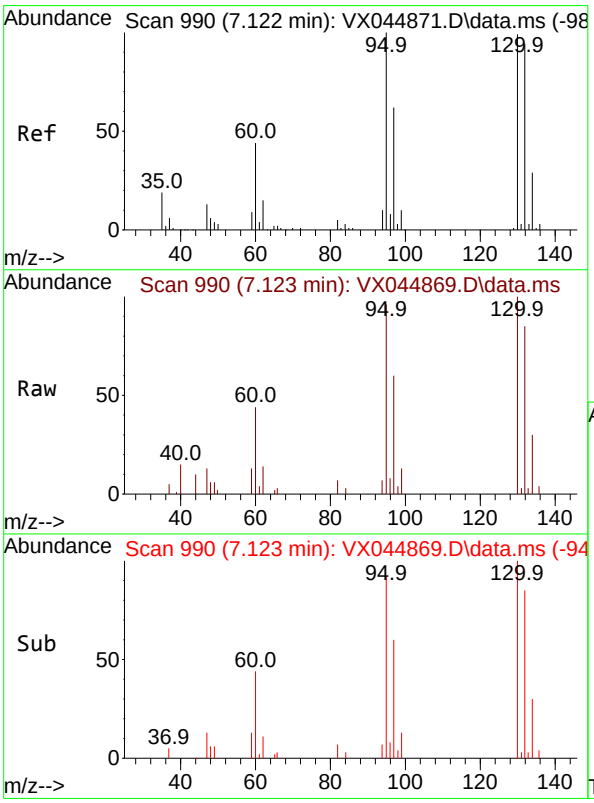
Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.8	23.8
87	11.9	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

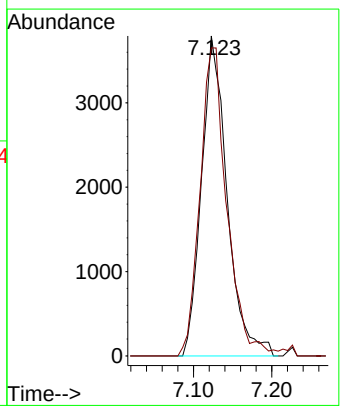
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

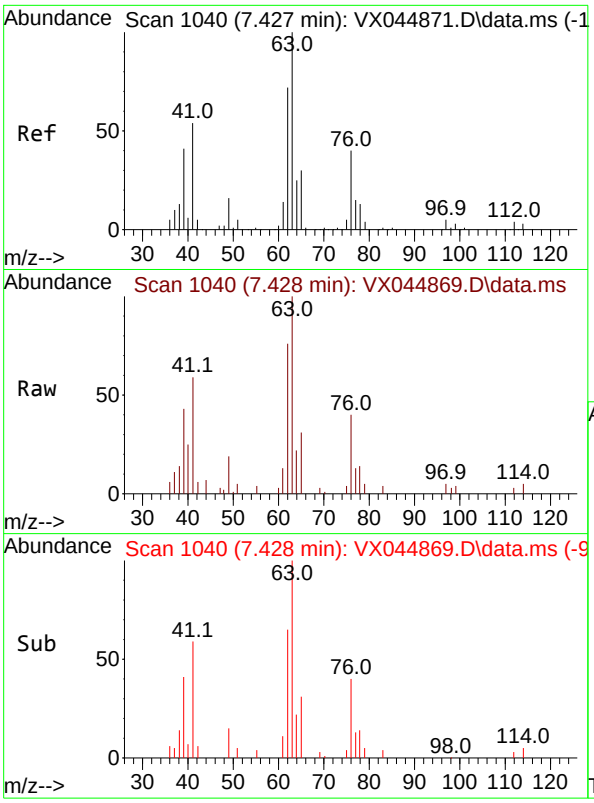


#44
Trichloroethene
Concen: 5.079 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:130 Resp: 8614

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	202.4

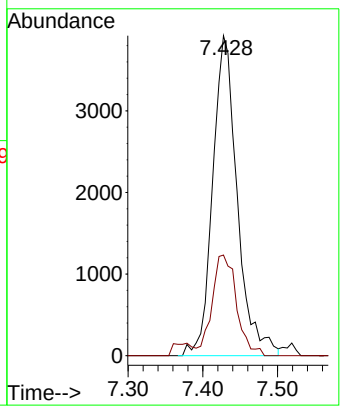




#45
1,2-Dichloropropane
Concen: 4.863 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 897

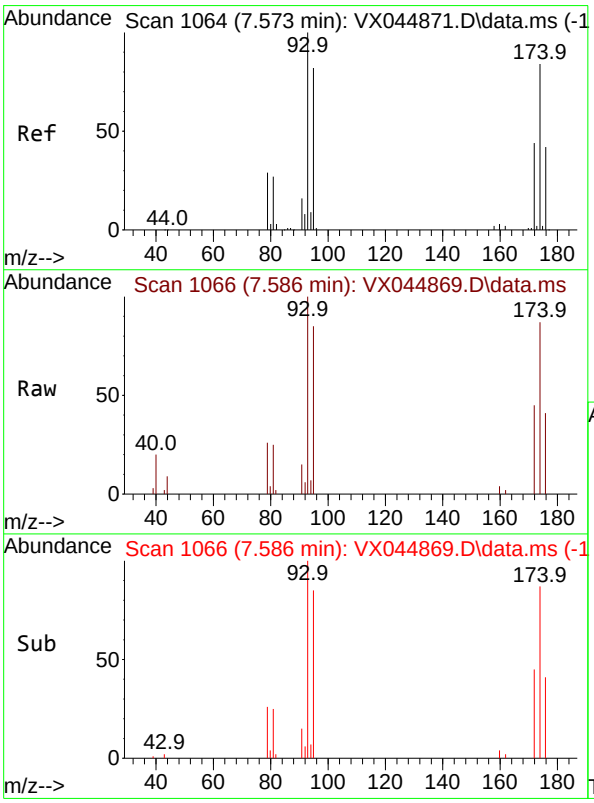
Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

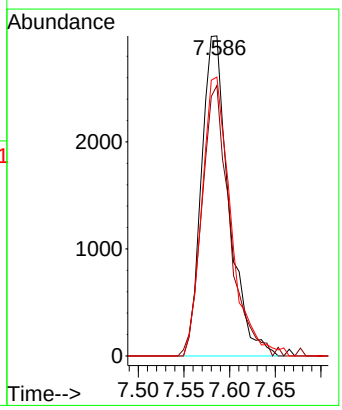
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

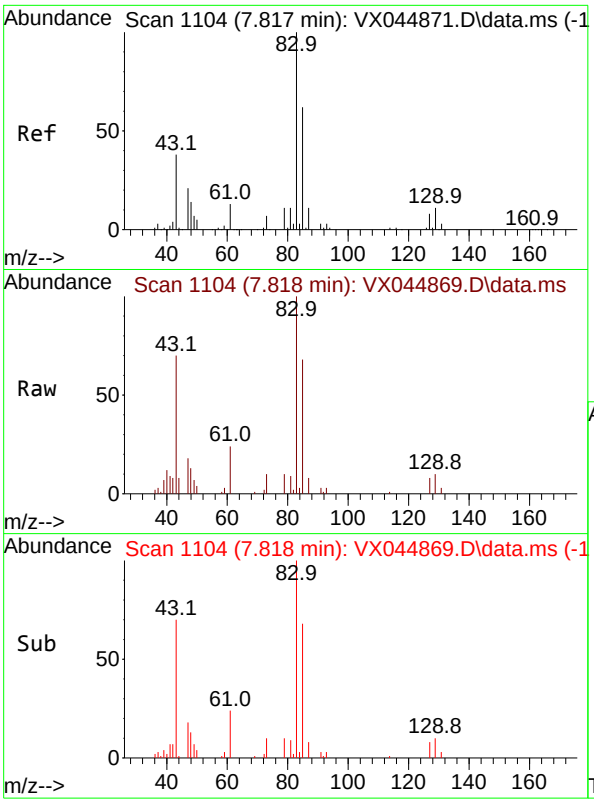


#46
Dibromomethane
Concen: 4.851 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 93 Resp: 6210

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

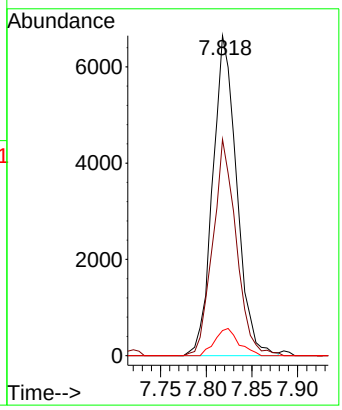




#47
Bromodichloromethane
Concen: 4.911 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 1217

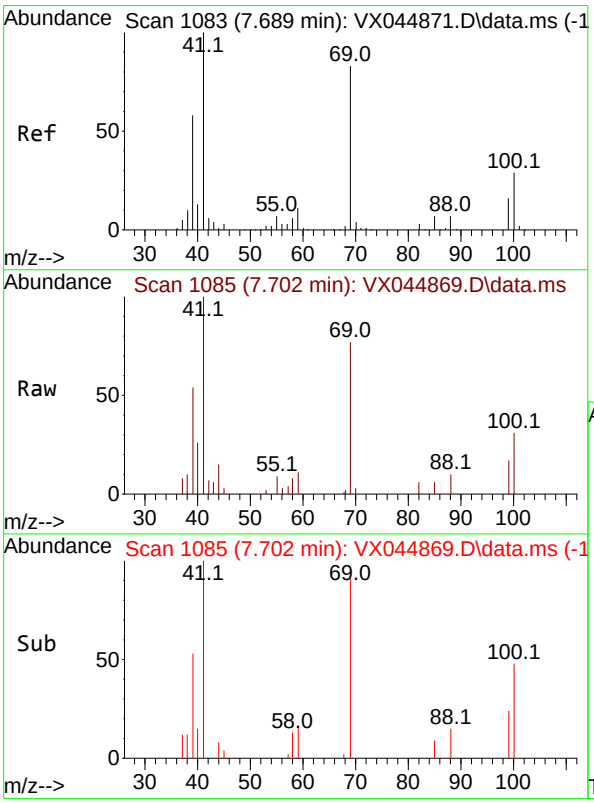
Ion	Ratio	Lower	Upper
83	100		
85	67.6	50.0	75.0
127	7.8	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

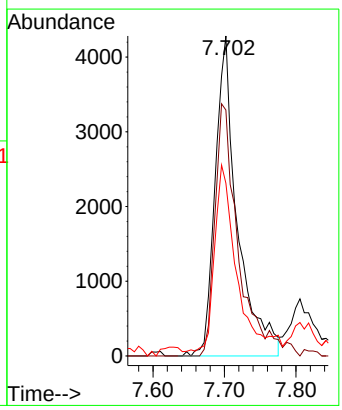
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

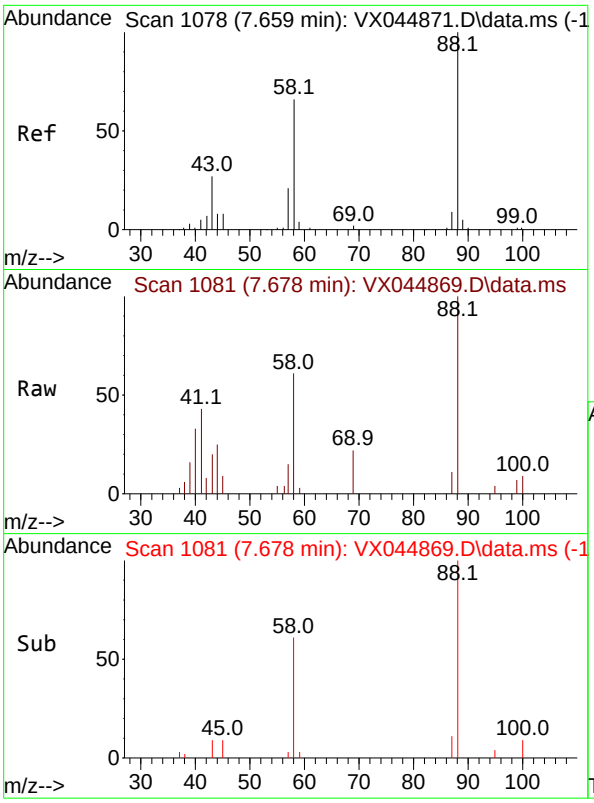


#48
Methyl methacrylate
Concen: 4.620 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 9298

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

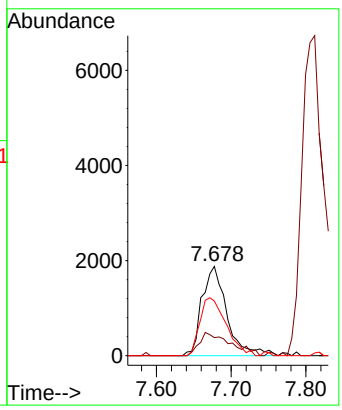




#49
1,4-Dioxane
Concen: 101.099 ug/l
RT: 7.678 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 88 Resp: 436

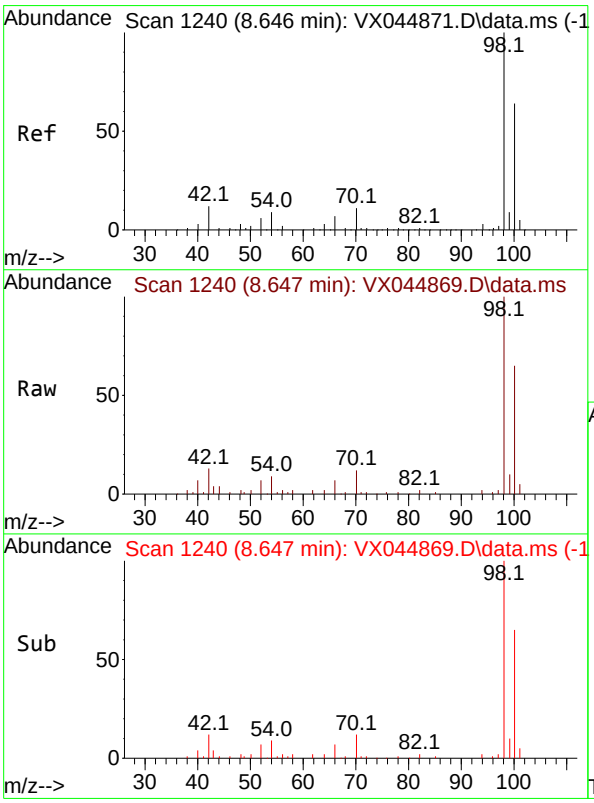
Ion	Ratio	Lower	Upper
88	100		
43	32.3	26.6	39.8
58	67.9	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

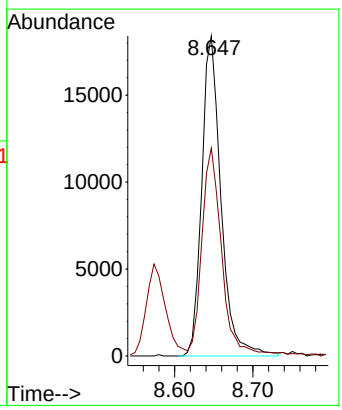
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

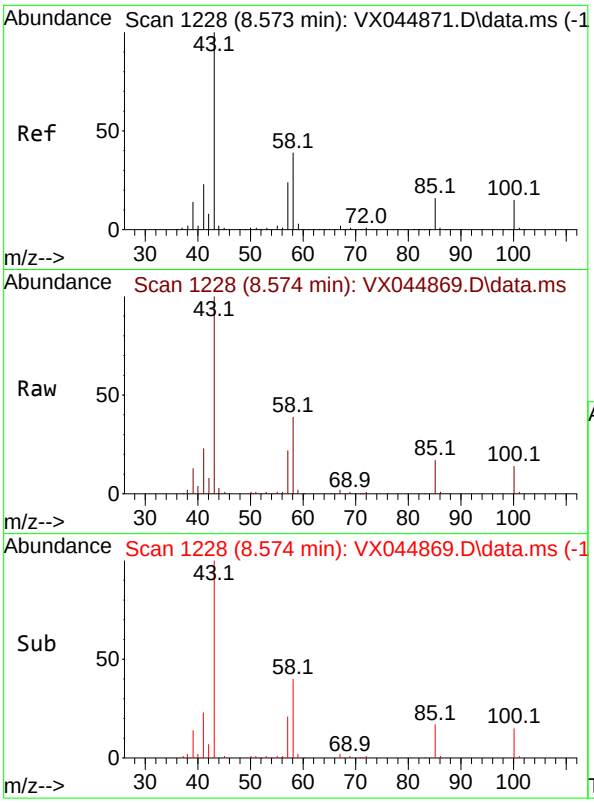


#50
Toluene-d8
Concen: 5.039 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 98 Resp: 31381

Ion	Ratio	Lower	Upper
98	100		
100	67.8	52.7	79.1

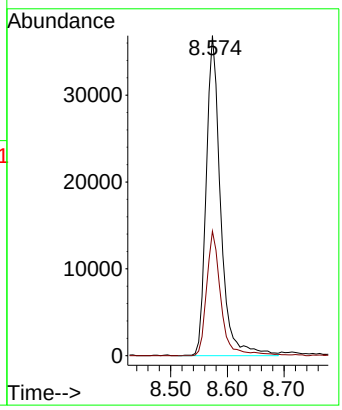




#51
4-Methyl-2-Pentanone
Concen: 25.076 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 6506

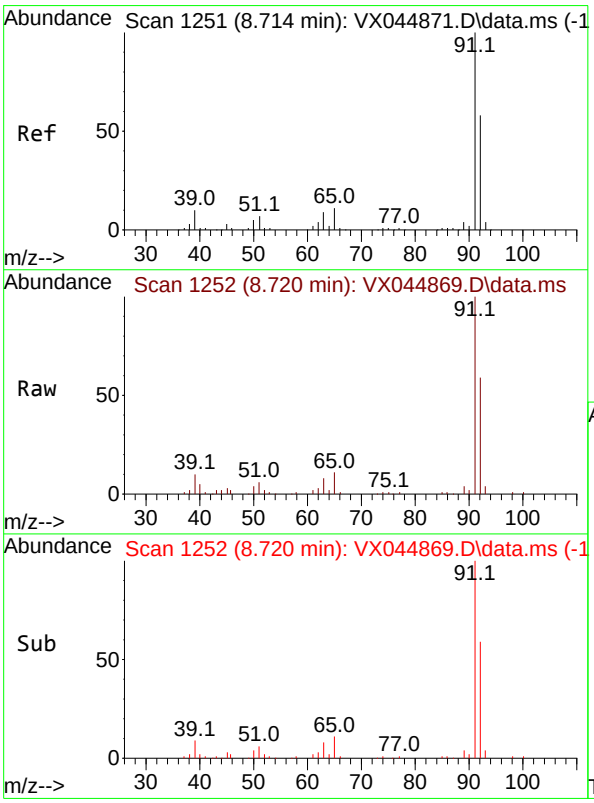
Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

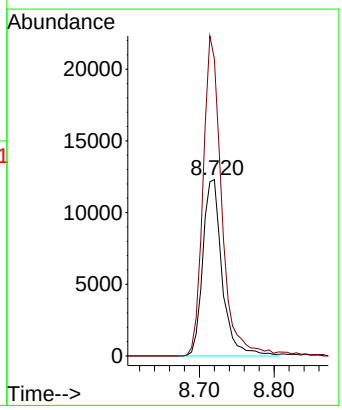
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

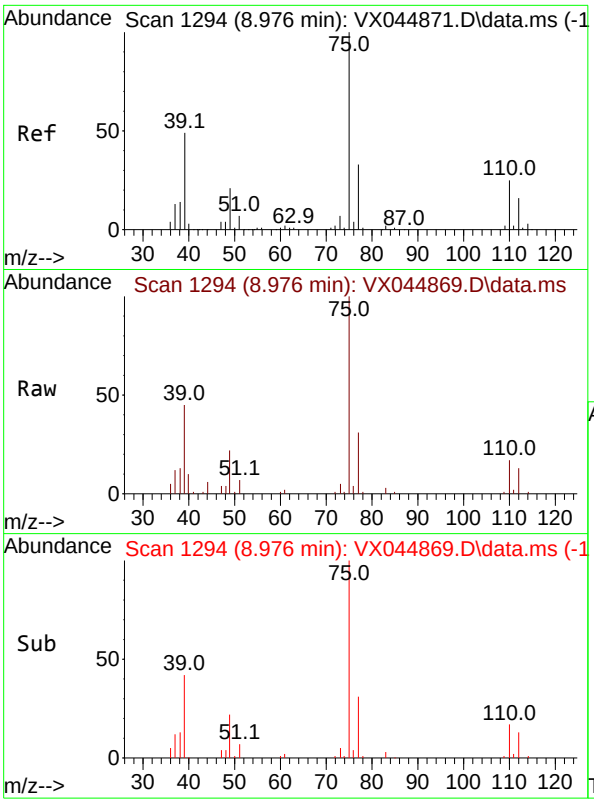


#52
Toluene
Concen: 4.999 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 92 Resp: 22090

Ion	Ratio	Lower	Upper
92	100		
91	177.1	137.4	206.2

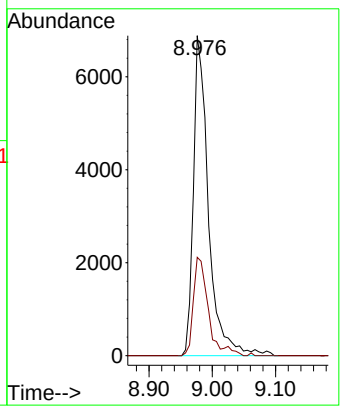




#53
t-1,3-Dichloropropene
Concen: 4.550 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 1141

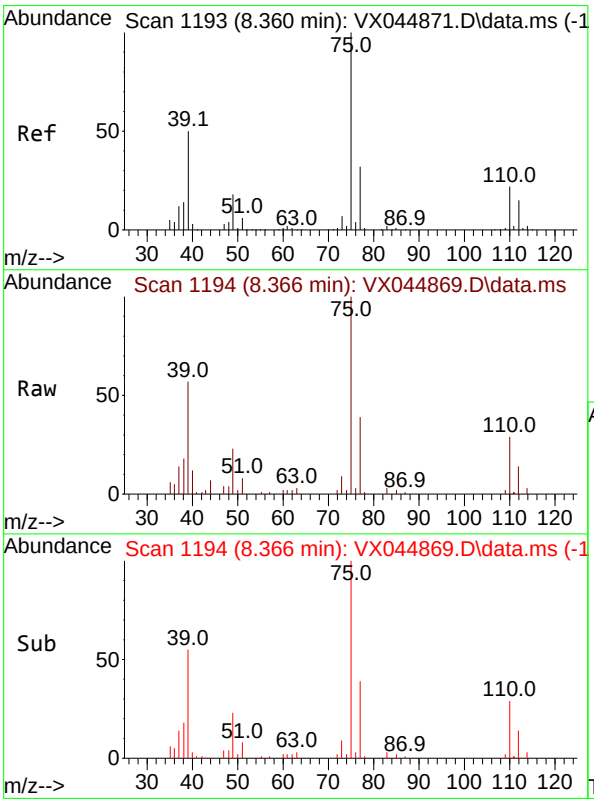
Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

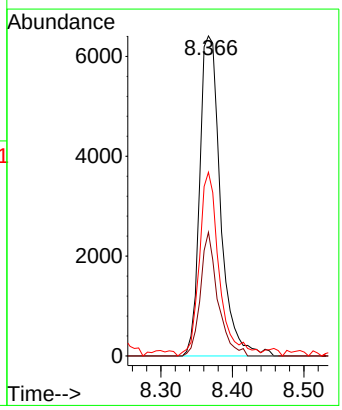
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

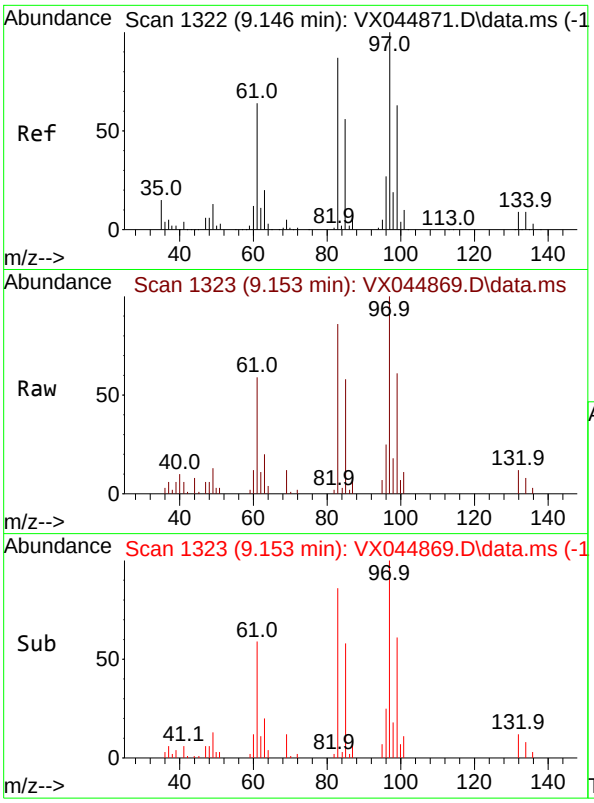


#54
cis-1,3-Dichloropropene
Concen: 4.628 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 12943

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

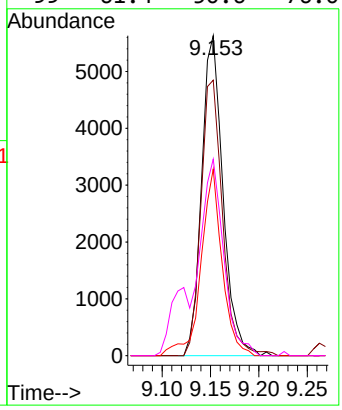




#55
1,1,2-Trichloroethane
Concen: 5.099 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 97 Resp: 866

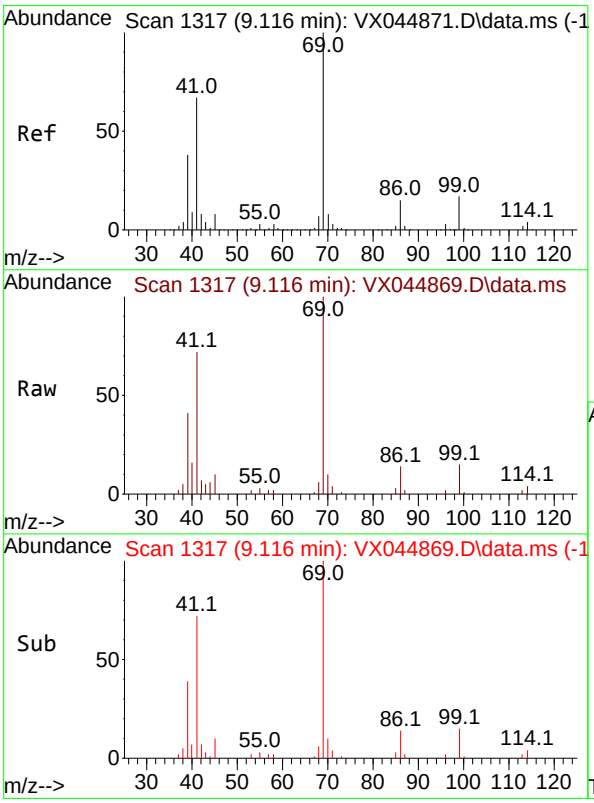
Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.8	104.6
85	58.3	44.8	67.2
99	61.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

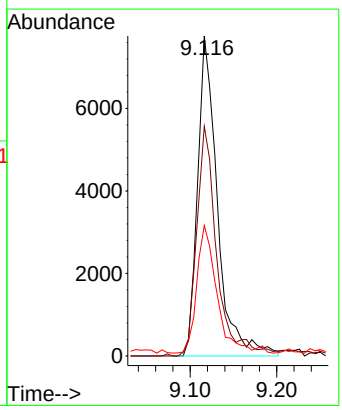
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

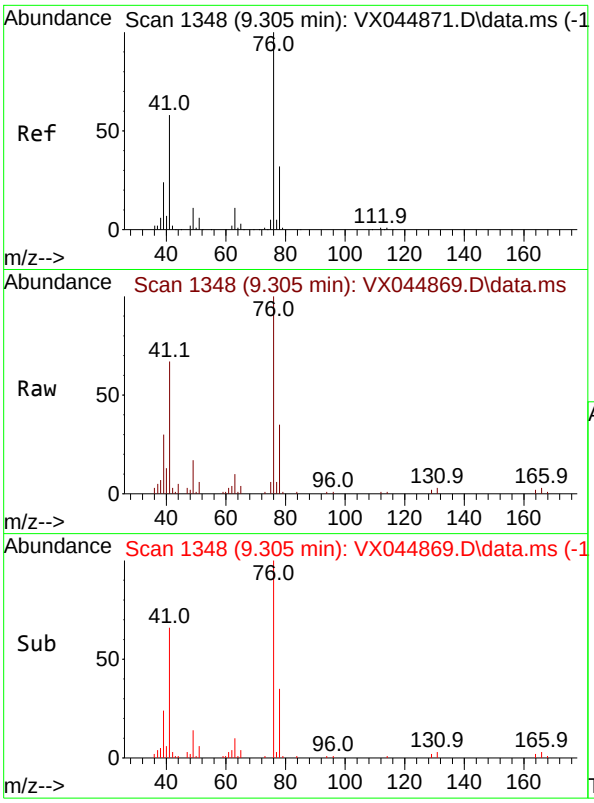


#56
Ethyl methacrylate
Concen: 4.502 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 69 Resp: 12351

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

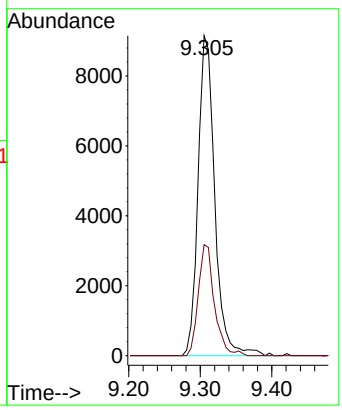




#57
1,3-Dichloropropane
Concen: 4.993 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 76 Resp: 1483

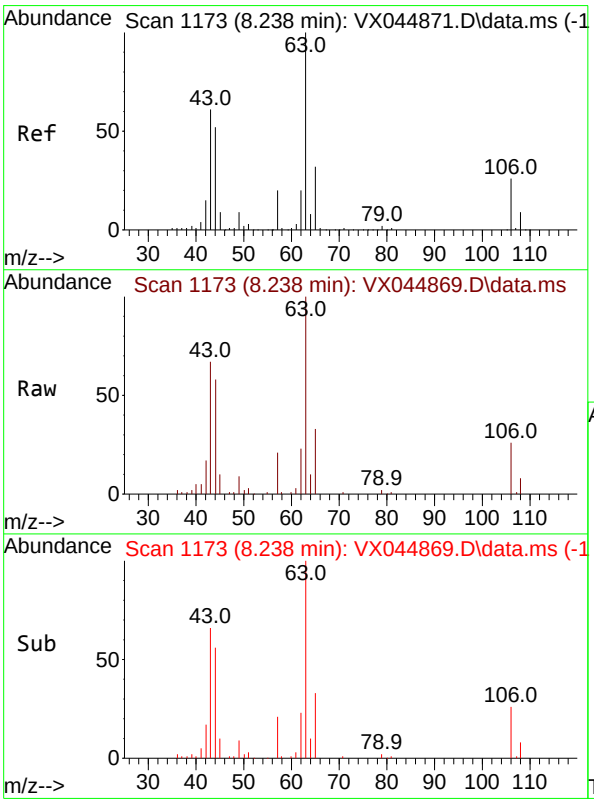
Ion	Ratio	Lower	Upper
76	100		
78	33.4	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

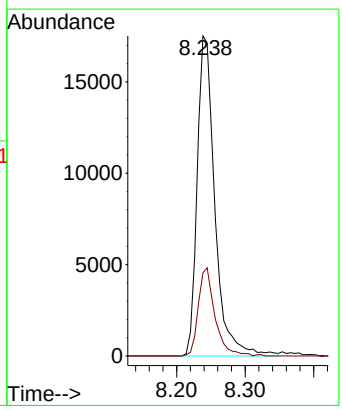
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

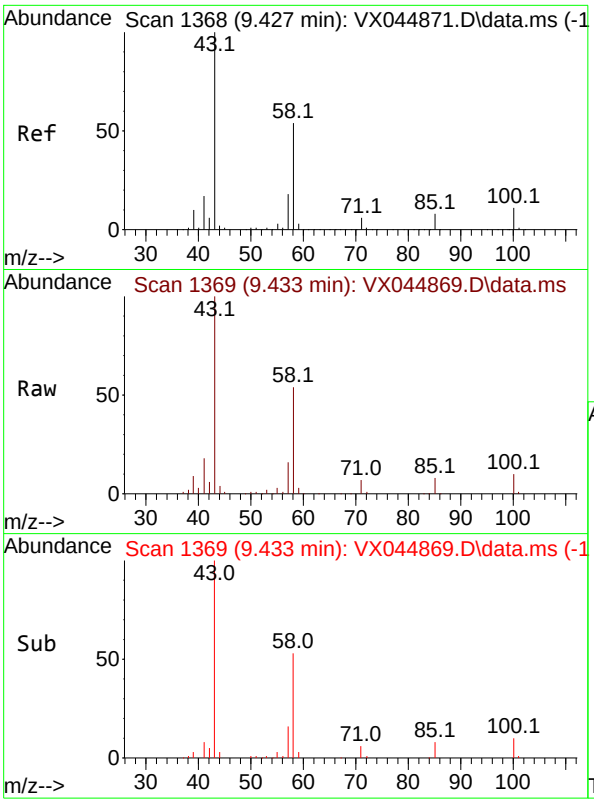


#58
2-Chloroethyl Vinyl ether
Concen: 23.382 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 31498

Ion	Ratio	Lower	Upper
63	100		
106	25.8	21.3	31.9

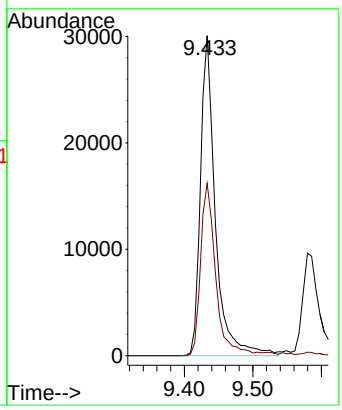




#59
2-Hexanone
Concen: 24.359 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 4553

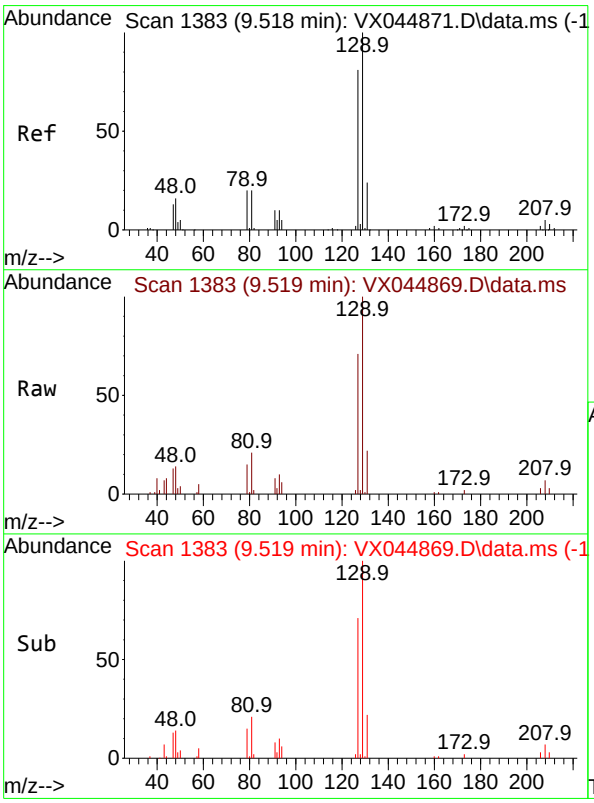
Ion	Ratio	Lower	Upper
43	100		
58	55.5	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

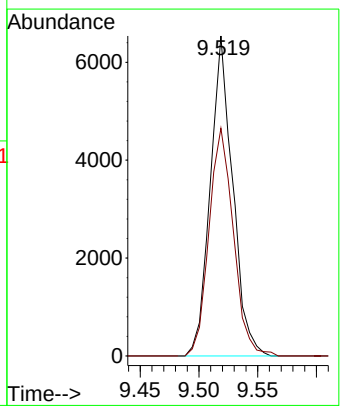
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

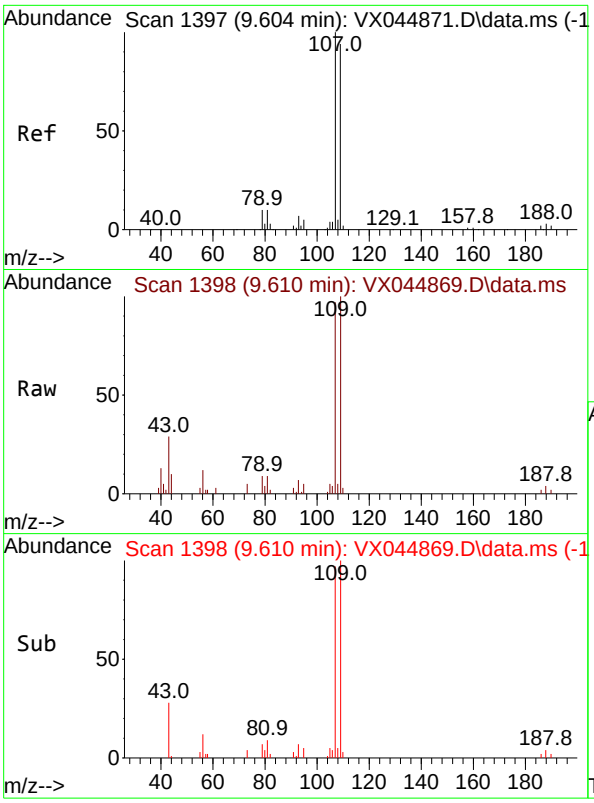


#60
Dibromochloromethane
Concen: 4.771 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:129 Resp: 8668

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.3





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

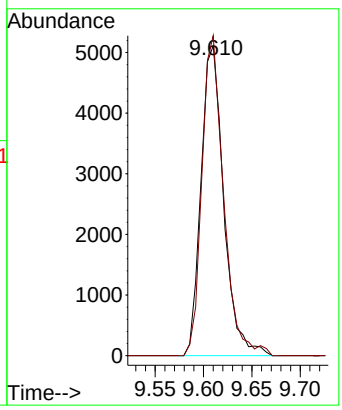
Tgt Ion:107 Resp: 835

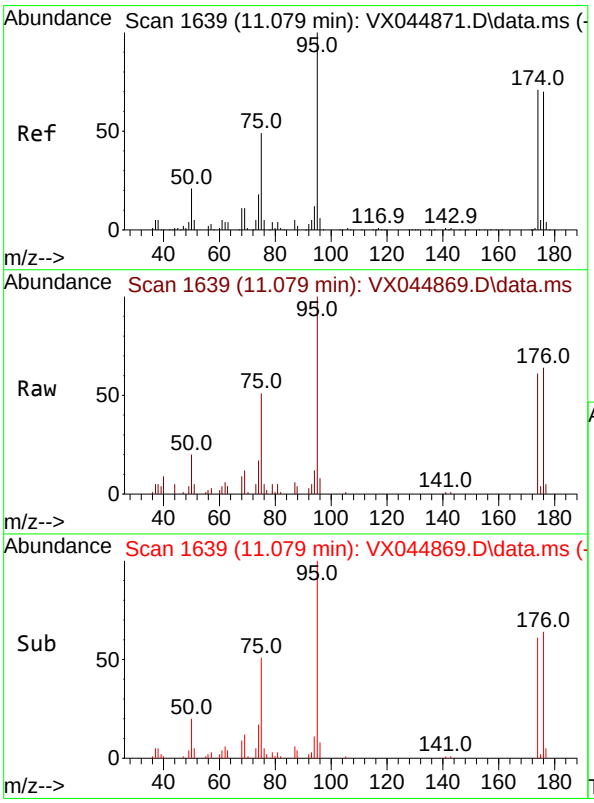
Ion	Ratio	Lower	Upper
107	100		
109	98.8	75.9	113.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

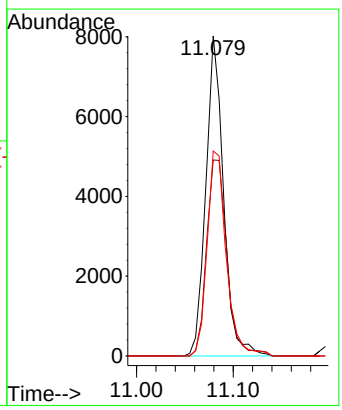


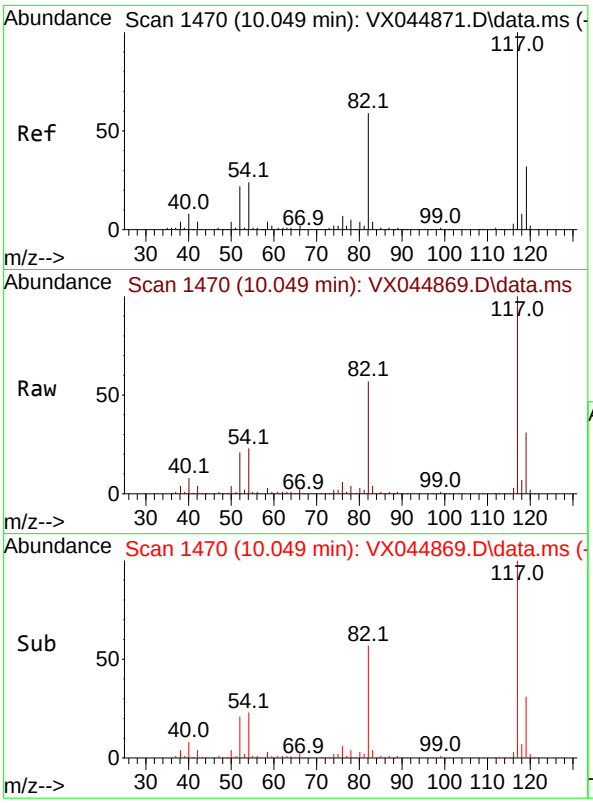


#62
4-Bromofluorobenzene
Concen: 4.872 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 95 Resp: 10229

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

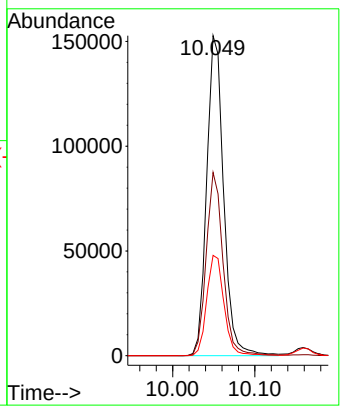




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 21862

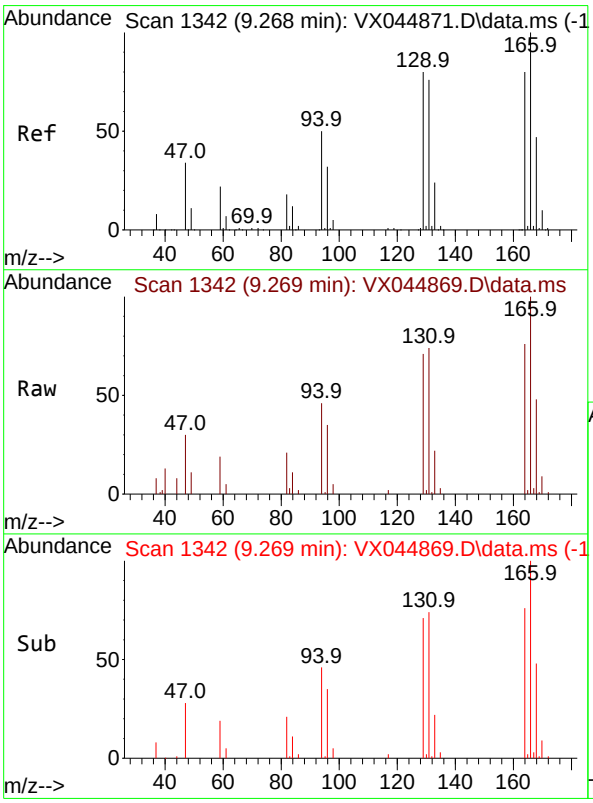
Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.5	71.3
119	31.4	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

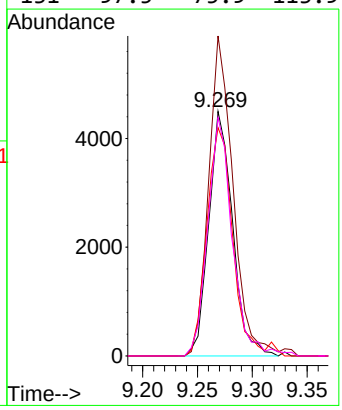
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

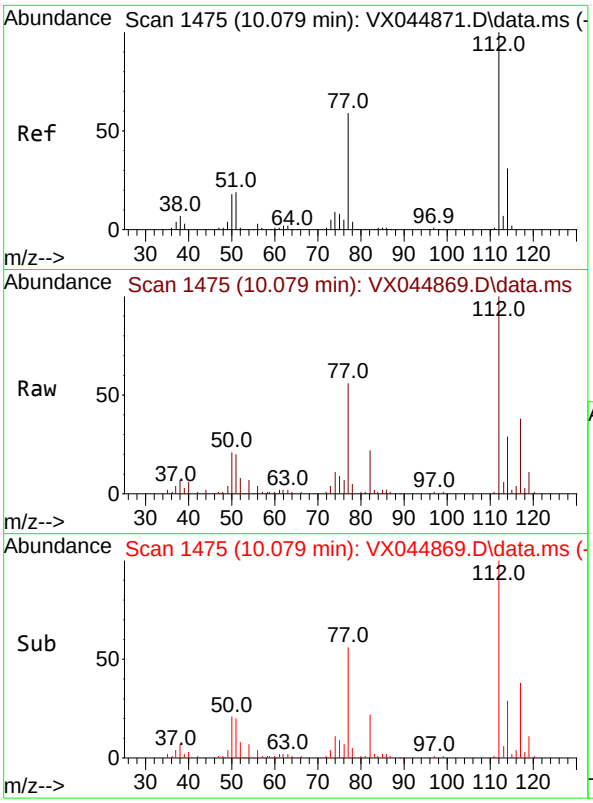


#64
Tetrachloroethene
Concen: 4.934 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:164 Resp: 6803

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

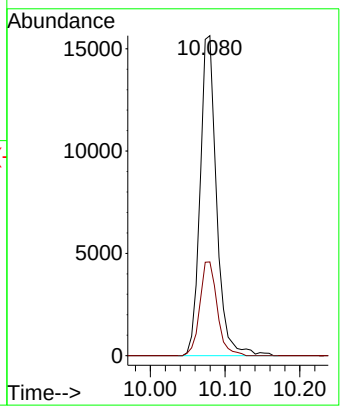




#65
Chlorobenzene
Concen: 5.090 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:112 Resp: 2390

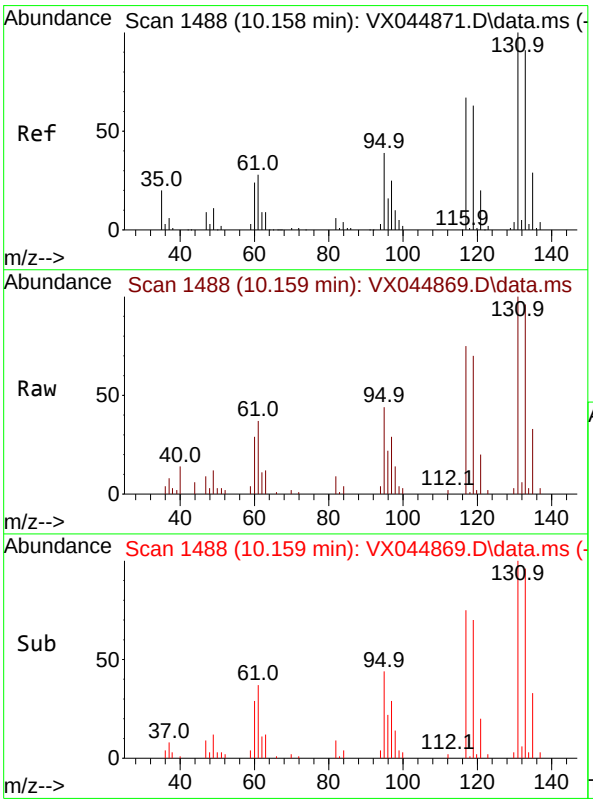
Ion	Ratio	Lower	Upper
112	100		
114	29.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

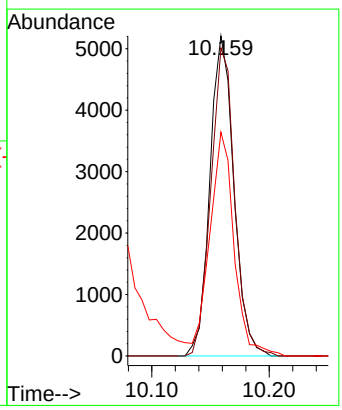
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

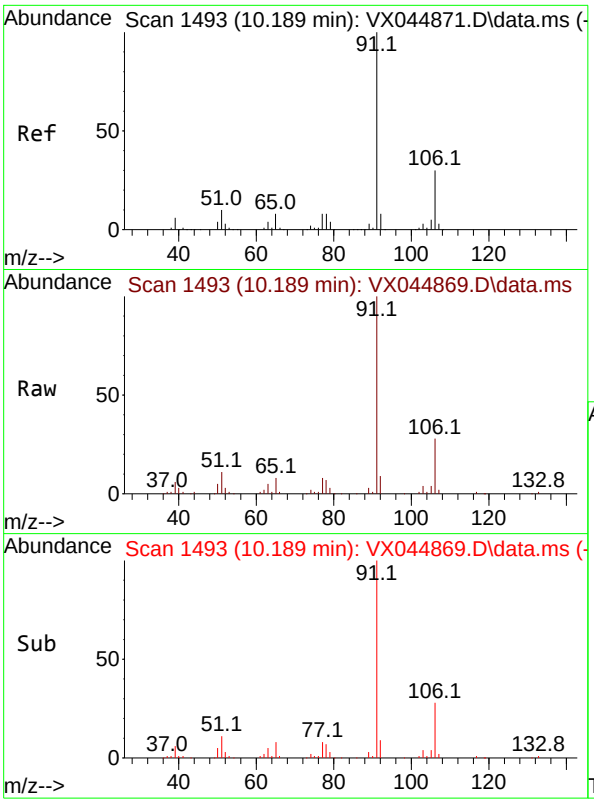


#66
1,1,1,2-Tetrachloroethane
Concen: 4.883 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:131 Resp: 7380

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

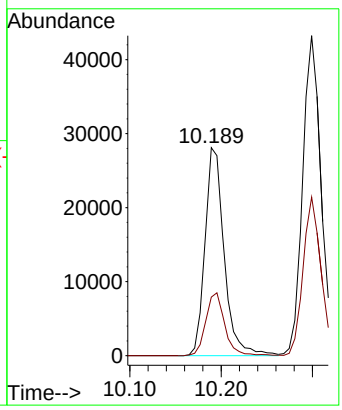




#67
Ethyl Benzene
Concen: 4.941 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 4094

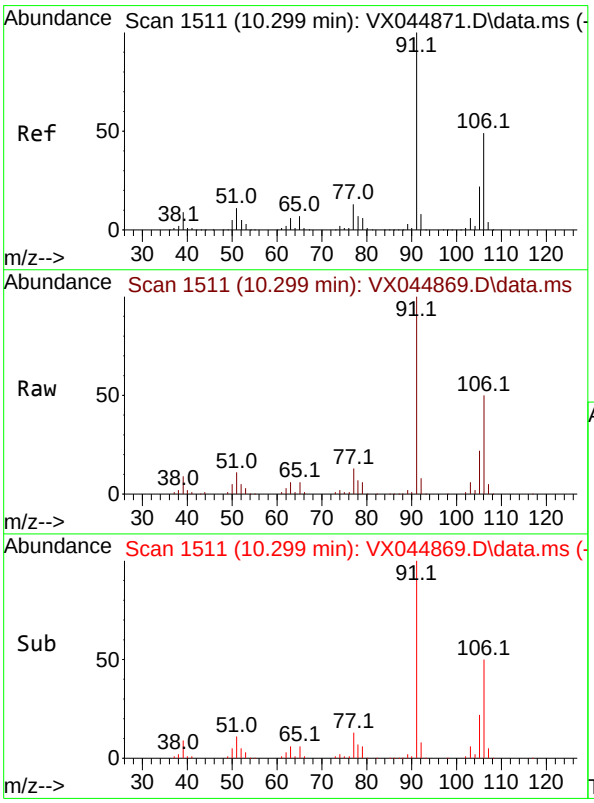
Ion	Ratio	Lower	Upper
91	100		
106	28.1	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

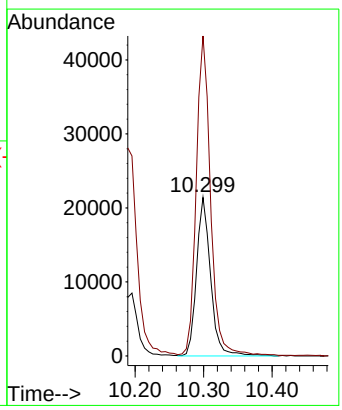
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

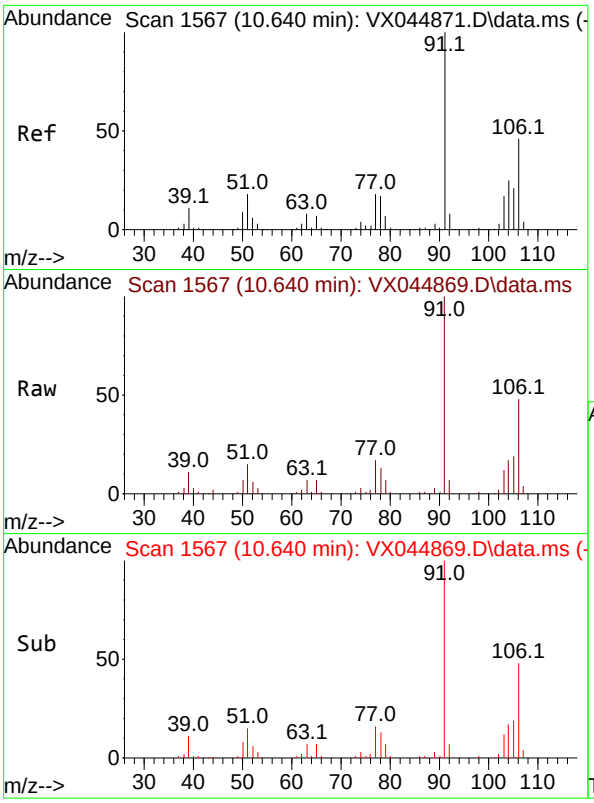


#68
m/p-Xylenes
Concen: 10.019 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:106 Resp: 30627

Ion	Ratio	Lower	Upper
106	100		
91	204.6	164.3	246.5

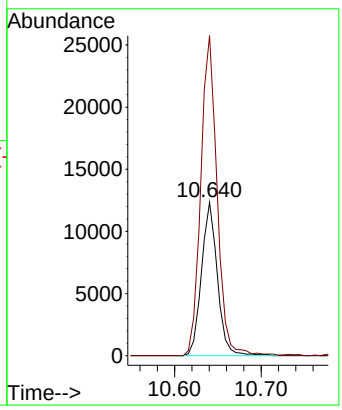




#69
o-Xylene
Concen: 5.139 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:106 Resp: 1576

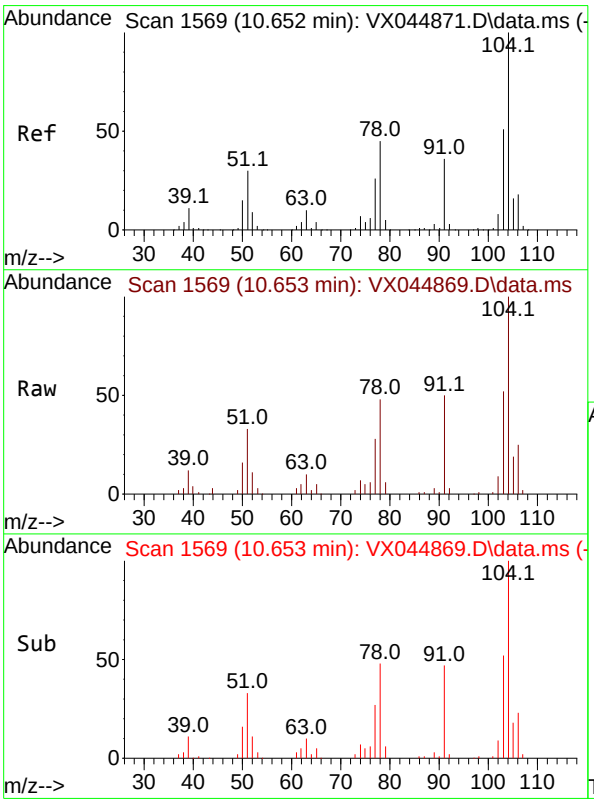
Ion	Ratio	Lower	Upper
106	100		
91	213.9	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

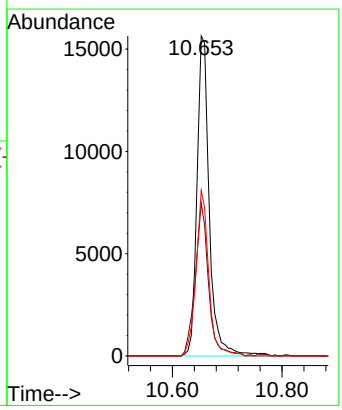
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

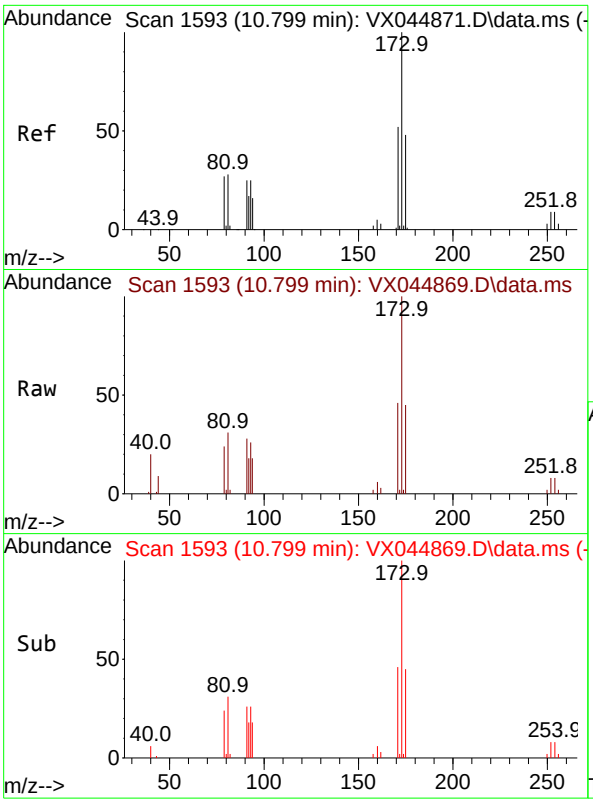


#70
Styrene
Concen: 4.973 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:104 Resp: 24576

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

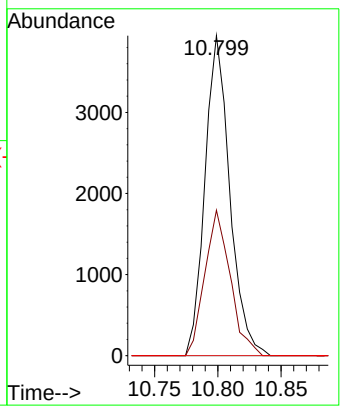




#71
Bromoform
Concen: 4.779 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:173 Resp: 539

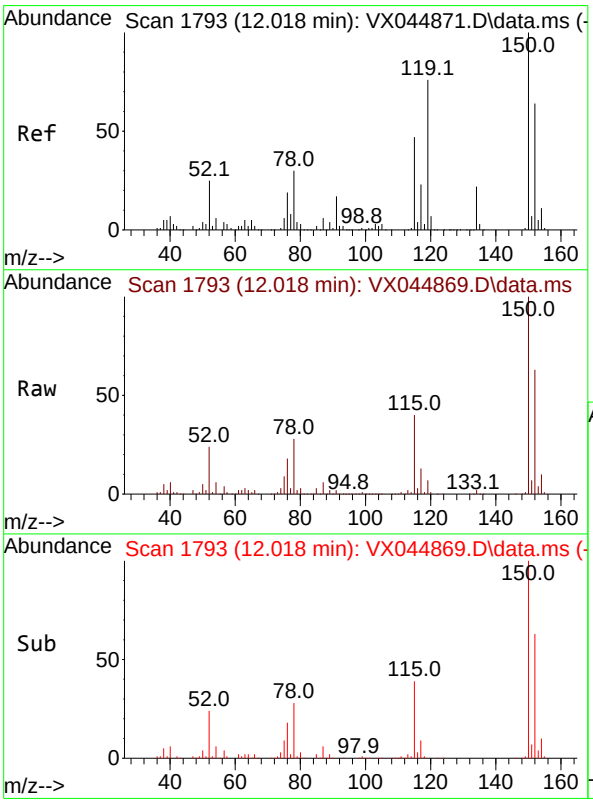
Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

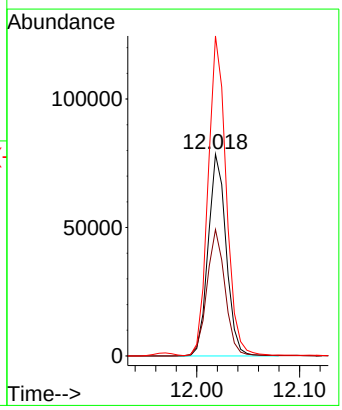
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

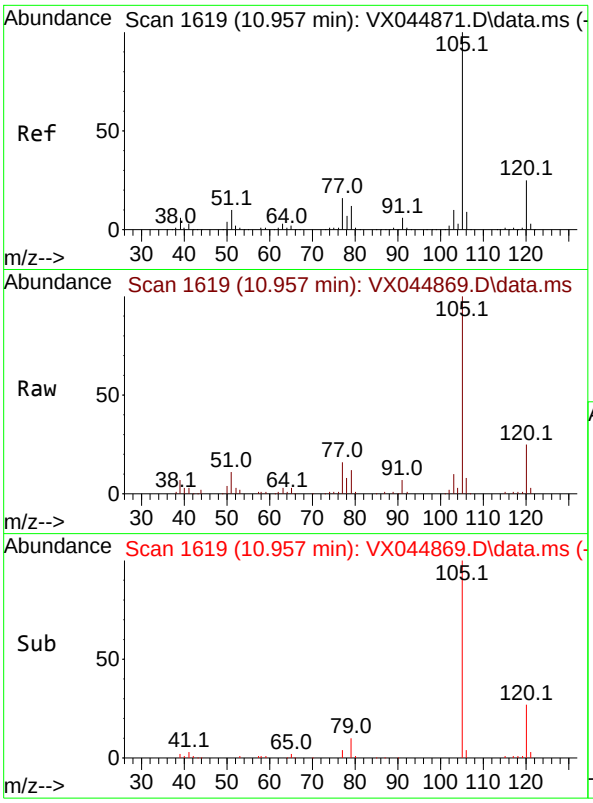


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:152 Resp: 95494

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

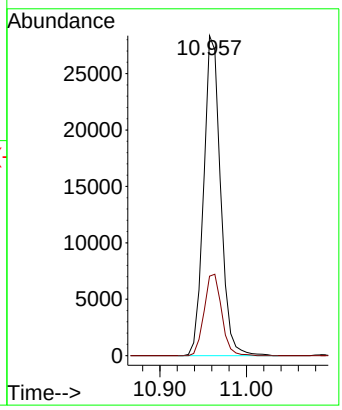




#73
Isopropylbenzene
Concen: 4.983 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 3831

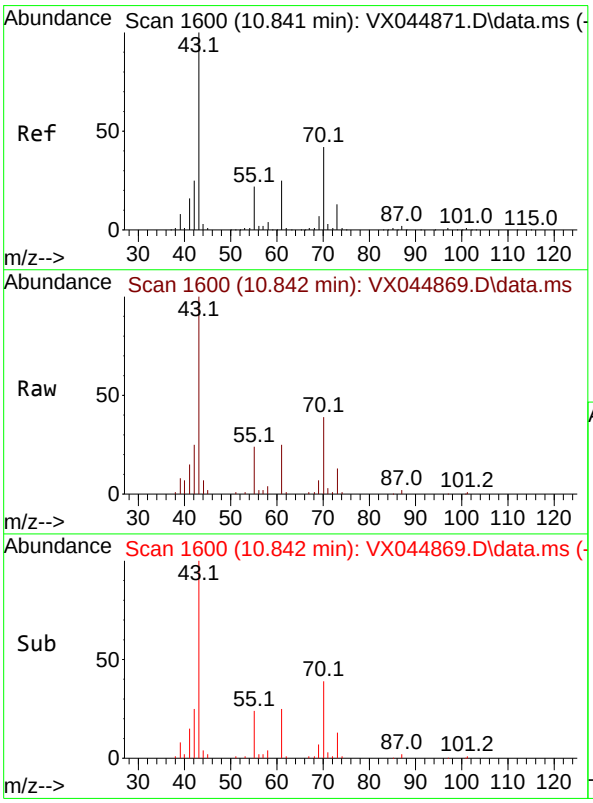
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

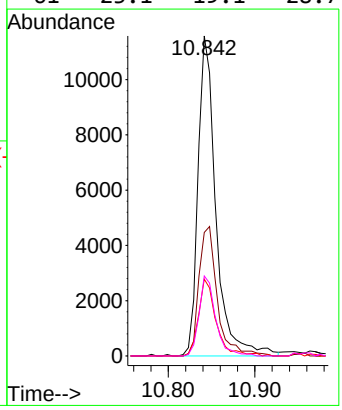
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

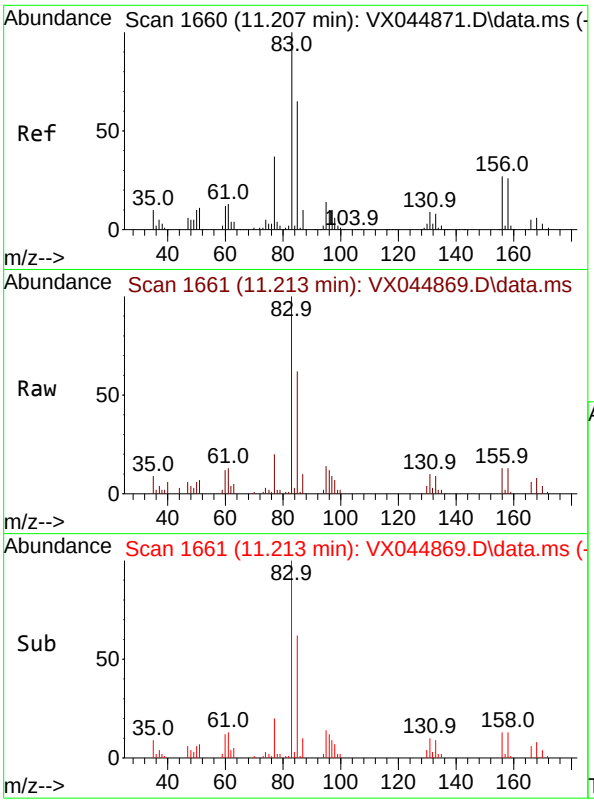


#74
N-amyl acetate
Concen: 4.786 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 16653

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

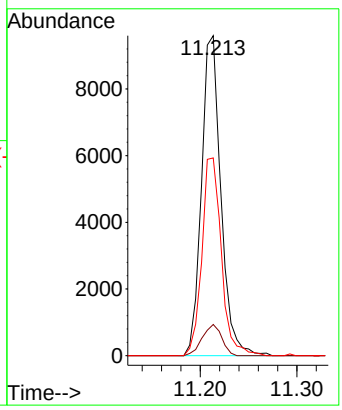




#75
1,1,2,2-Tetrachloroethane
Concen: 5.069 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 1339

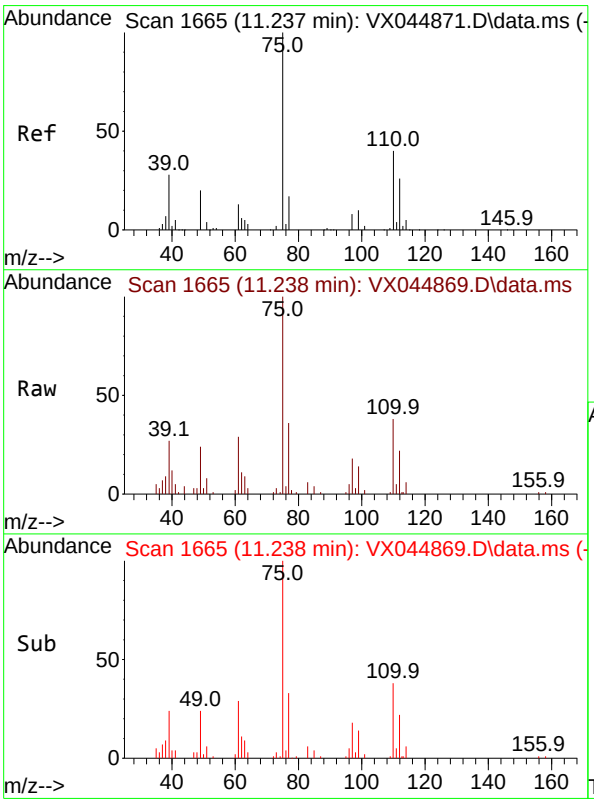
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.5
85	62.1	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

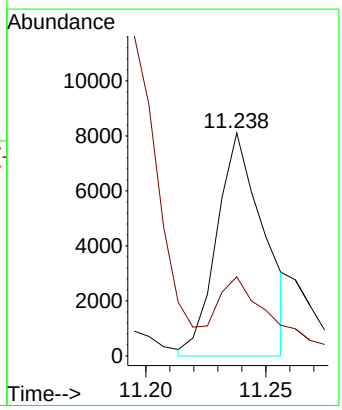
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

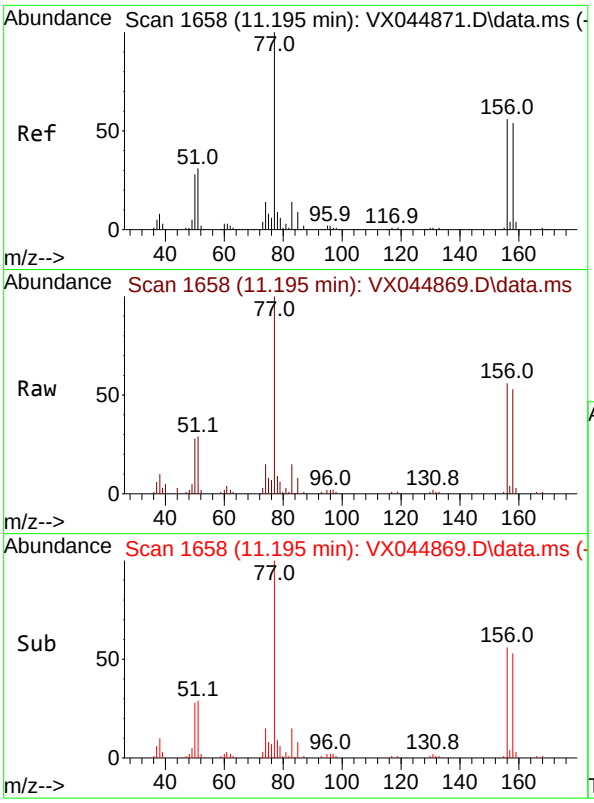


#76
1,2,3-Trichloropropane
Concen: 5.201 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 11011

Ion	Ratio	Lower	Upper
75	100		
77	44.1	21.9	65.7

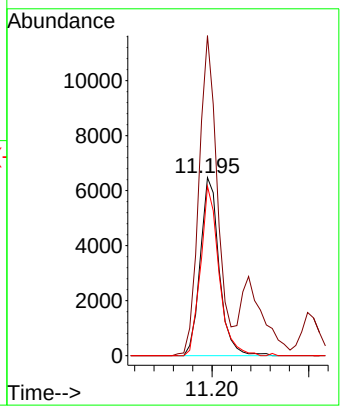




#77
Bromobenzene
Concen: 5.042 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:156 Resp: 878

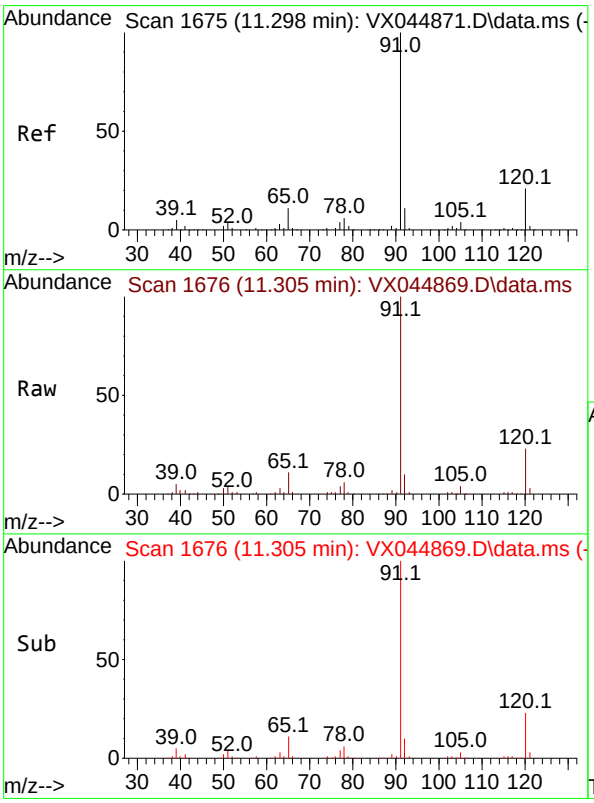
Ion	Ratio	Lower	Upper
156	100		
77	174.1	88.4	265.3
158	92.9	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

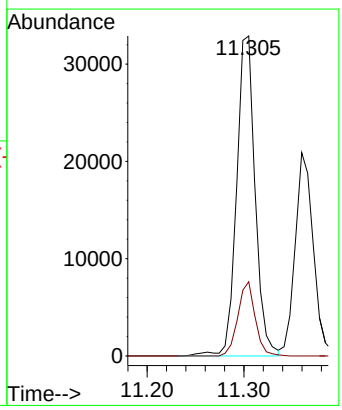
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

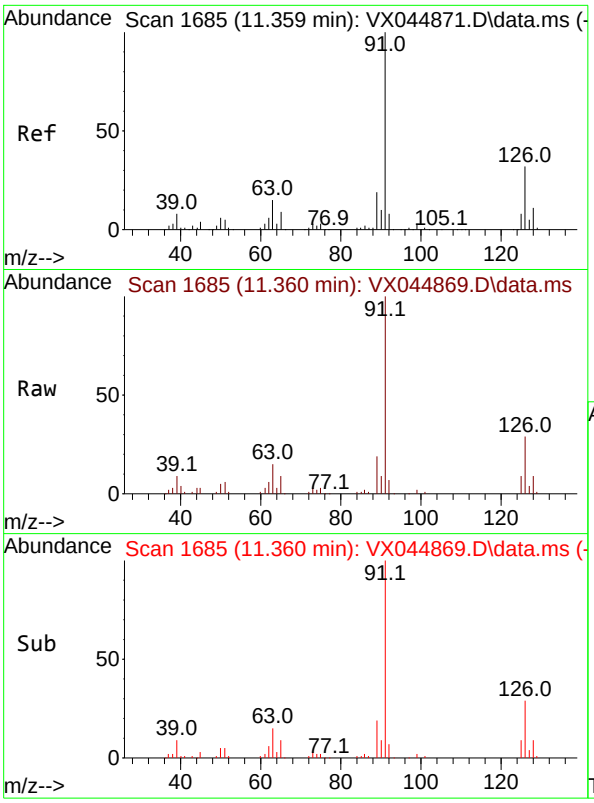


#78
n-propylbenzene
Concen: 4.949 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 43923

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.1	33.3





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

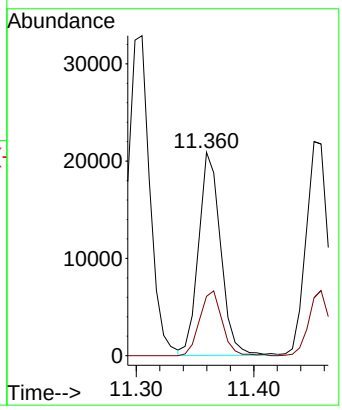
Tgt Ion: 91 Resp: 2731

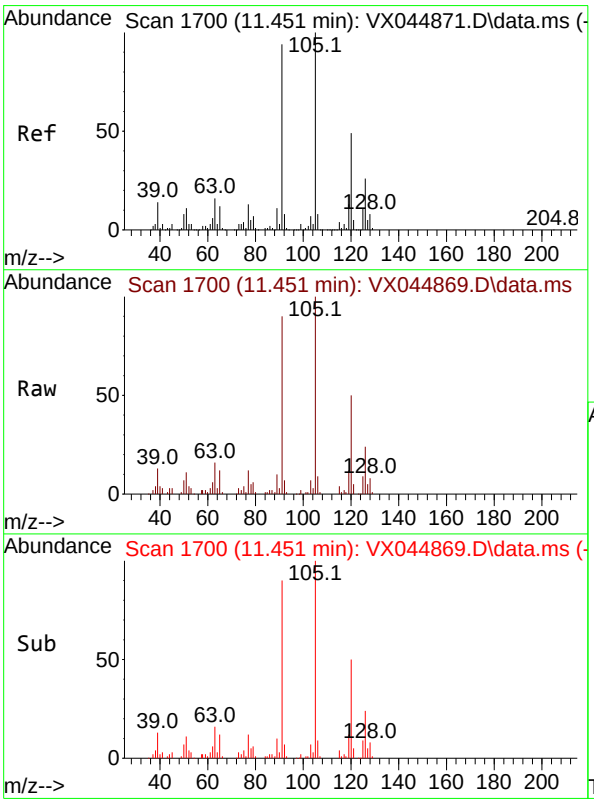
Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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

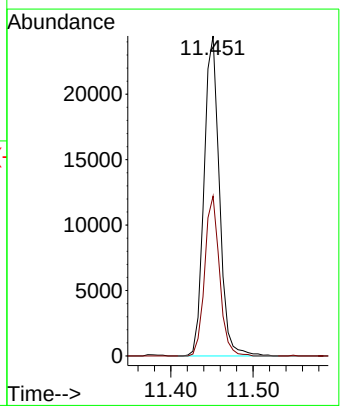


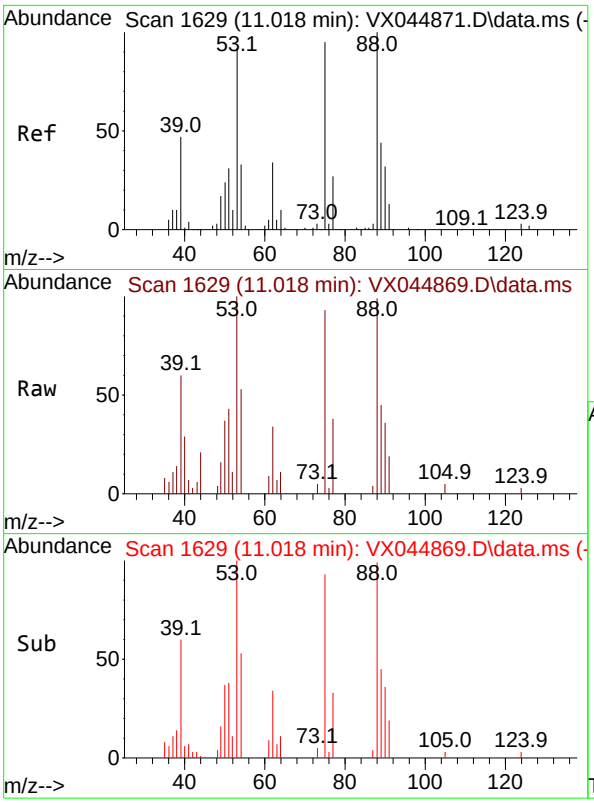


#80
1,3,5-Trimethylbenzene
Concen: 5.090 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31761

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0

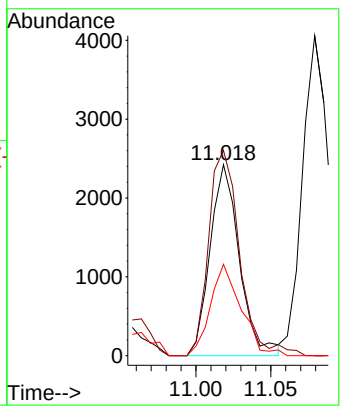




#81
trans-1,4-Dichloro-2-butene
Concen: 4.013 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 330

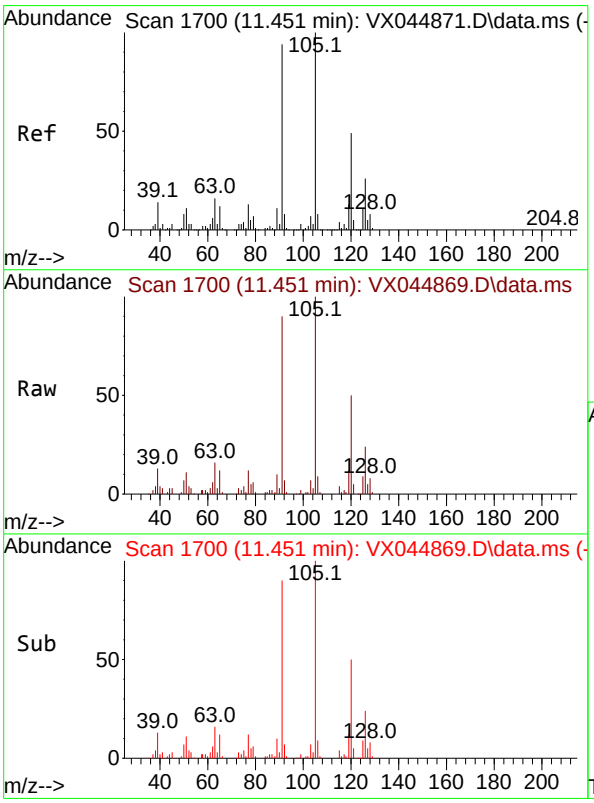
Ion	Ratio	Lower	Upper
75	100		
53	113.7	78.0	117.0
89	50.2	36.6	54.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

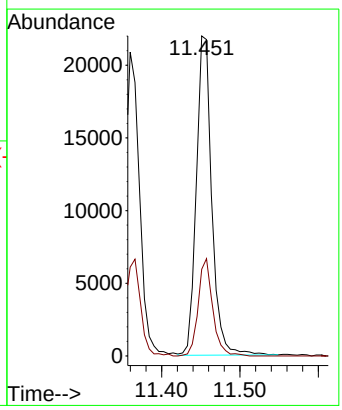
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

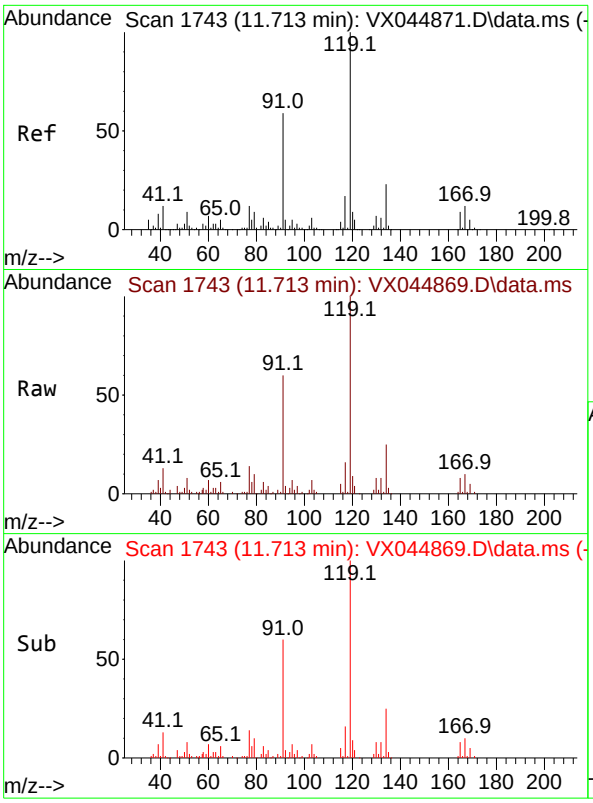


#82
4-Chlorotoluene
Concen: 4.994 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 30138

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6

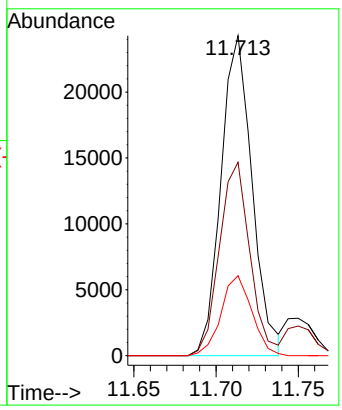




#83
tert-Butylbenzene
Concen: 5.068 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:119 Resp: 3199

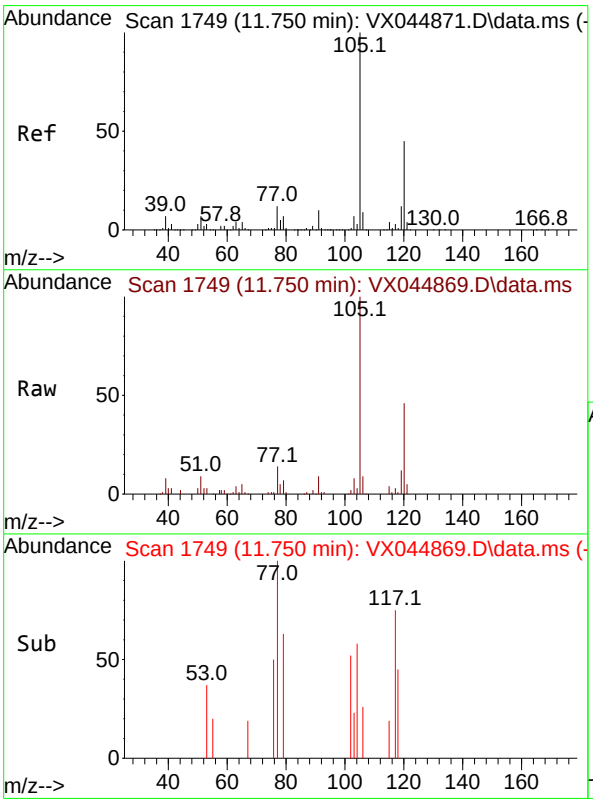
Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.1	87.4
134	24.7	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

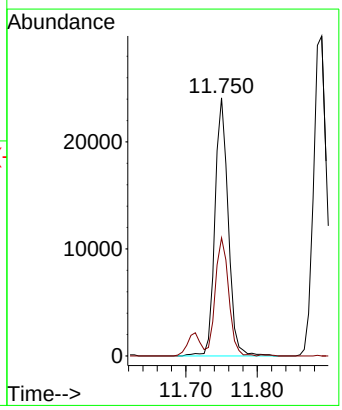
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

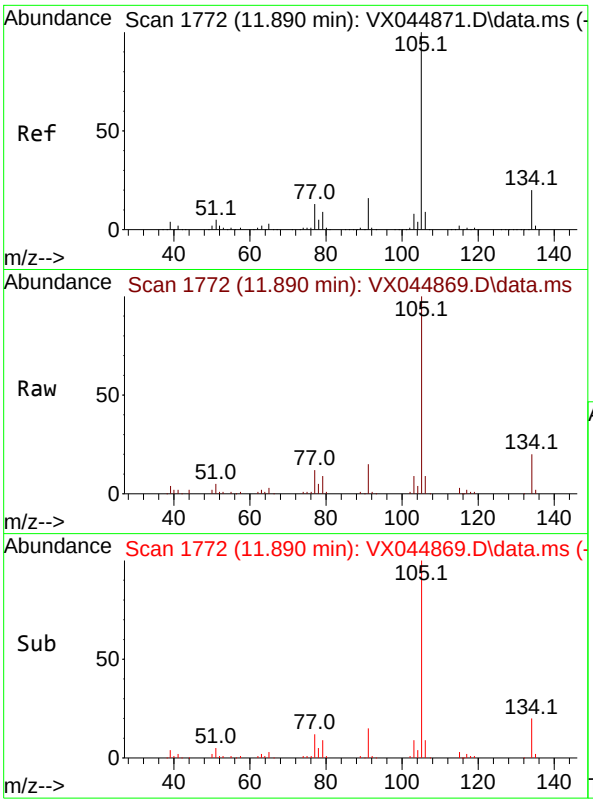


#84
1,2,4-Trimethylbenzene
Concen: 5.042 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31053

Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.4	67.0

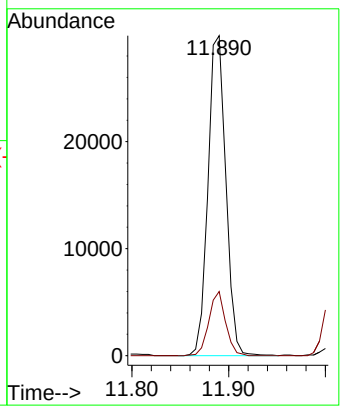




#85
sec-Butylbenzene
Concen: 4.917 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 3843

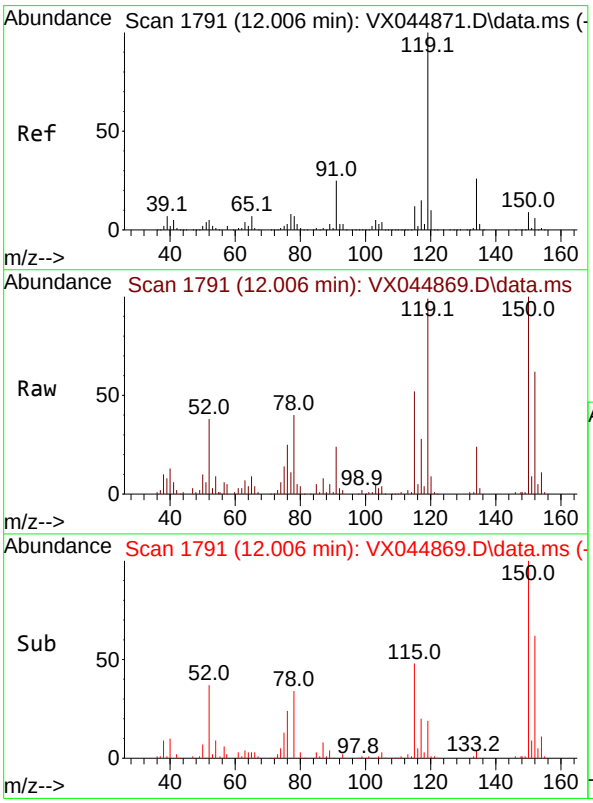
Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

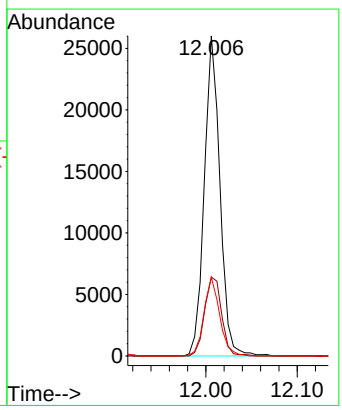
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

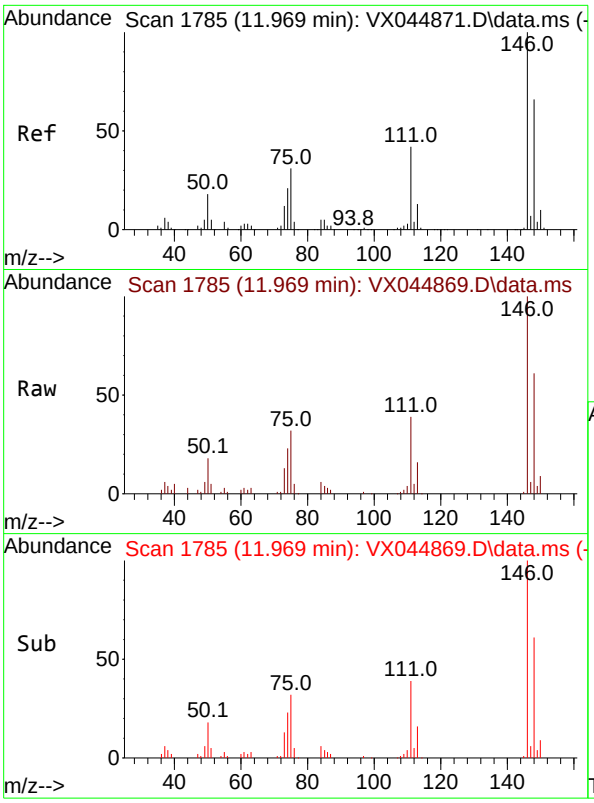


#86
p-Isopropyltoluene
Concen: 4.905 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:119 Resp: 30835

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

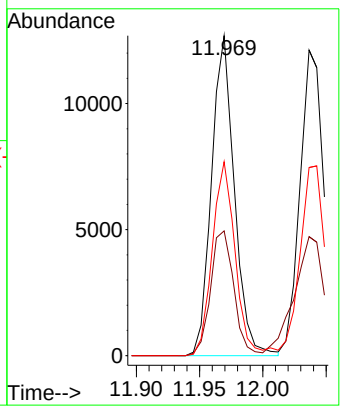




#87
1,3-Dichlorobenzene
Concen: 4.971 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:146 Resp: 1593

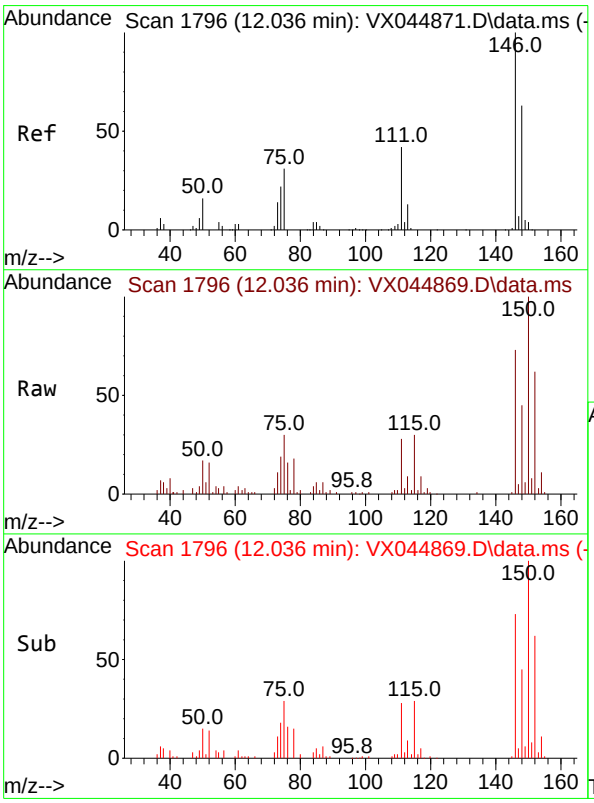
Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.2	63.6
148	60.0	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

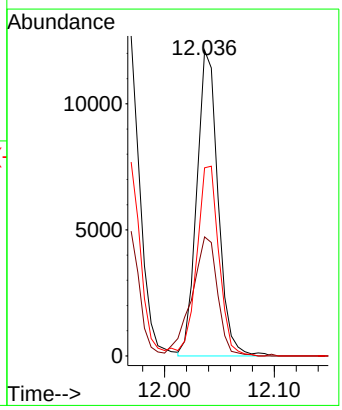
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

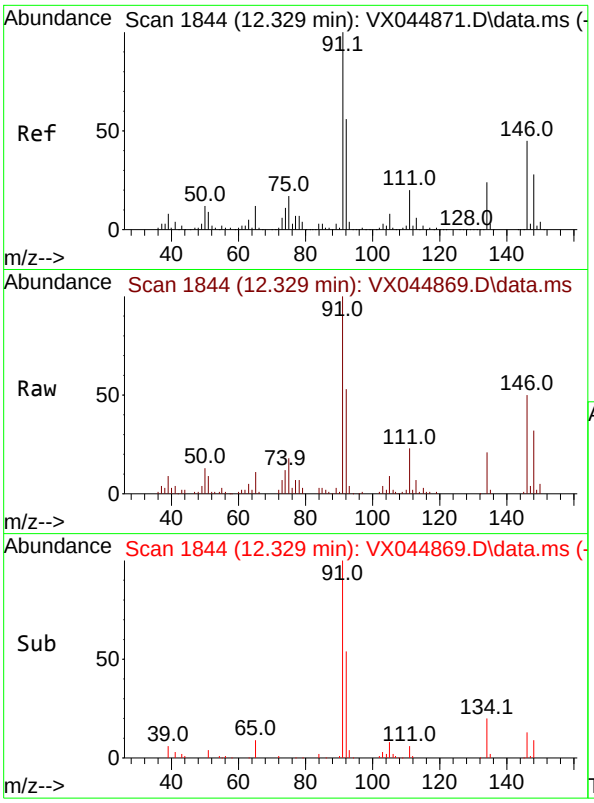


#88
1,4-Dichlorobenzene
Concen: 5.043 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:146 Resp: 16347

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

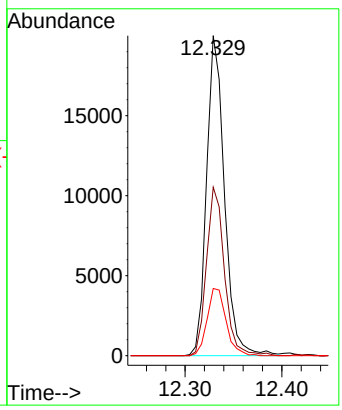




#89
n-Butylbenzene
Concen: 4.630 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 2574

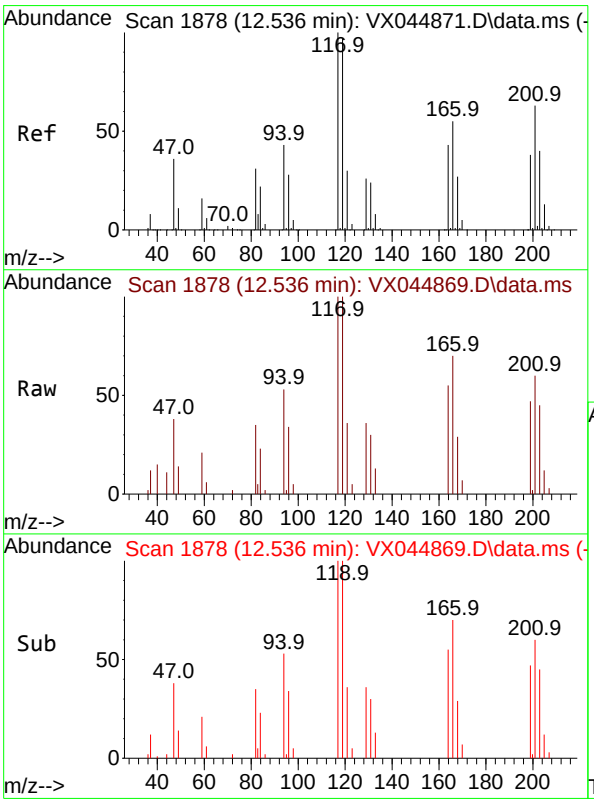
Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.2	81.6
134	22.3	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

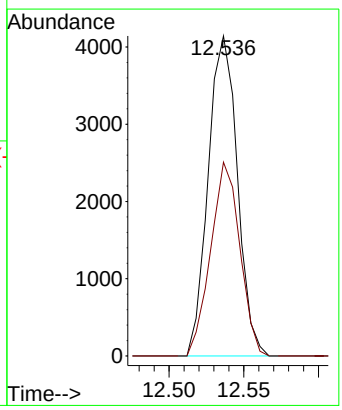
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

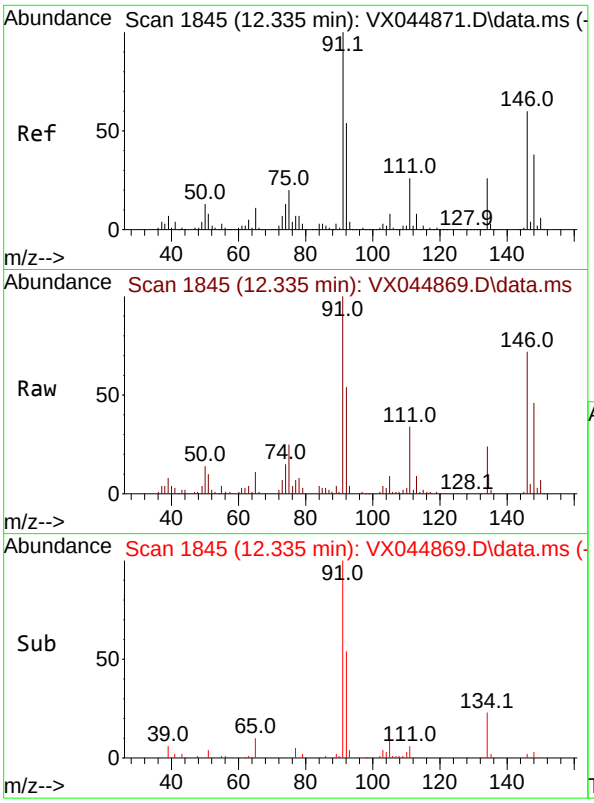


#90
Hexachloroethane
Concen: 4.775 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 5620

Ion	Ratio	Lower	Upper
117	100		
201	60.6	32.5	97.5

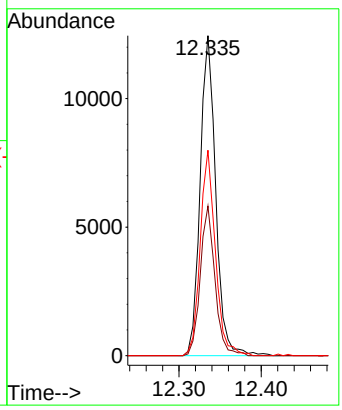




#91
1,2-Dichlorobenzene
Concen: 5.193 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:146 Resp: 1636

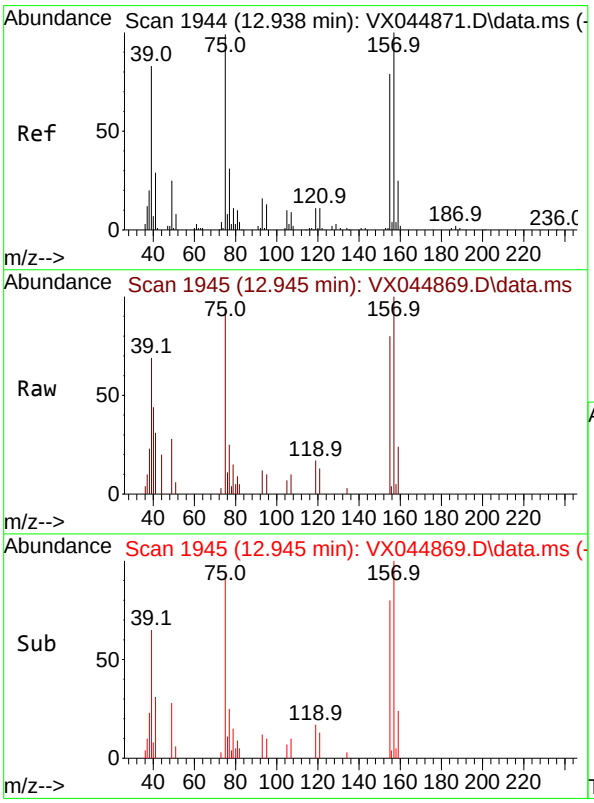
Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.8	65.4
148	62.7	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

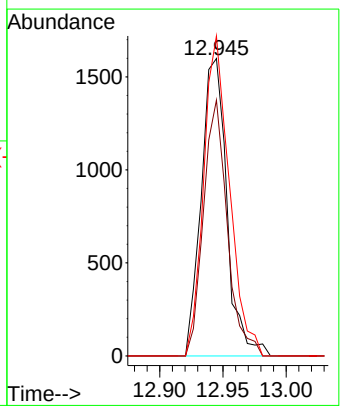
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

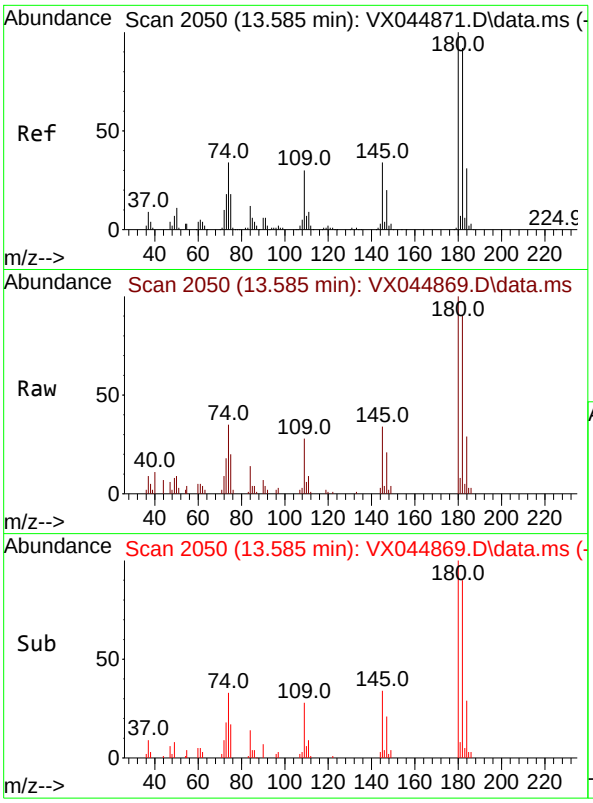


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.674 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 2254

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

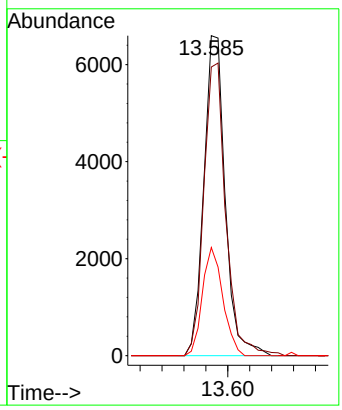




#93
1,2,4-Trichlorobenzene
Concen: 4.680 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:180 Resp: 892

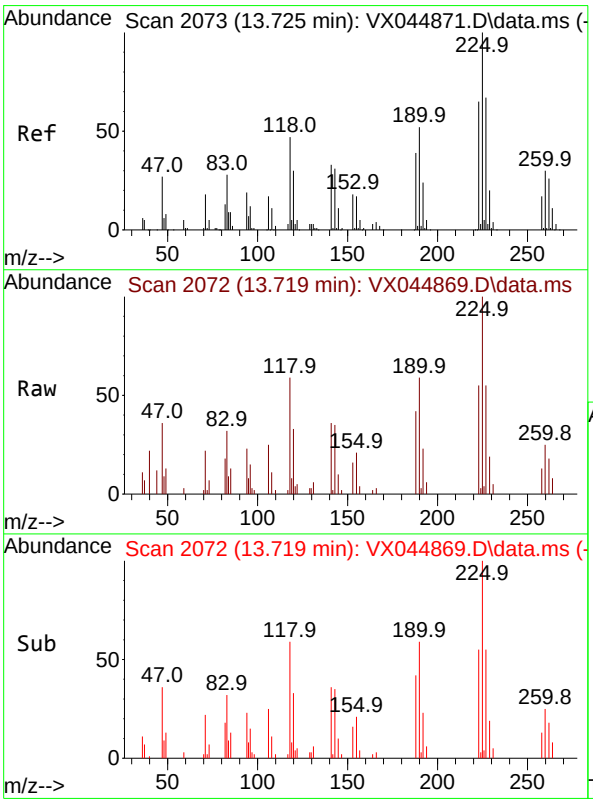
Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.6	142.8
145	32.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

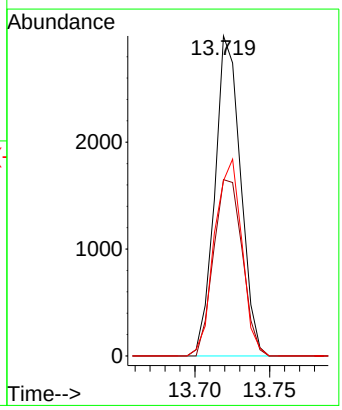
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

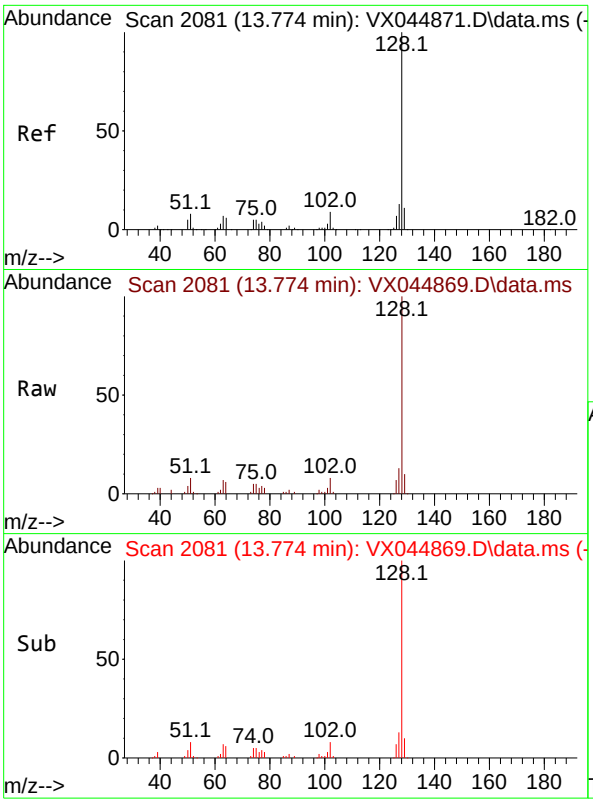


#94
Hexachlorobutadiene
Concen: 4.750 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:225 Resp: 3595

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

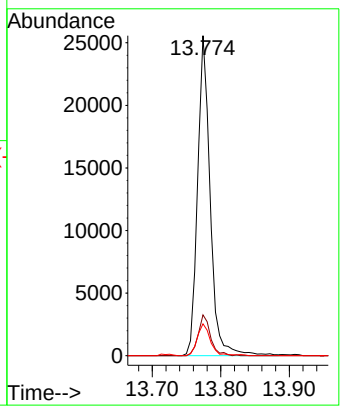




#95
Naphthalene
Concen: 4.756 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:128 Resp: 3277

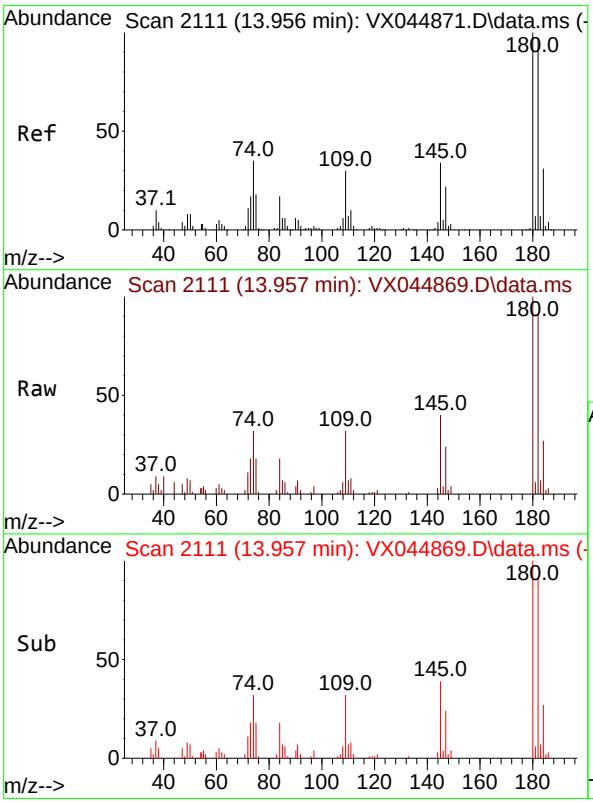
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.3	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

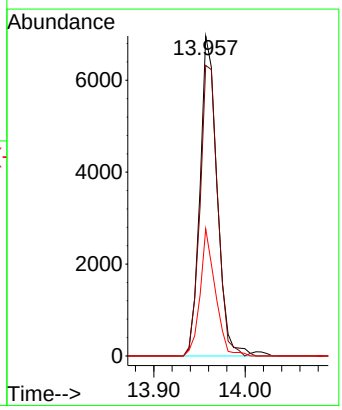
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



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

Tgt Ion:180 Resp: 9093

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



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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

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

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

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

ICAL Form

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

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

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

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

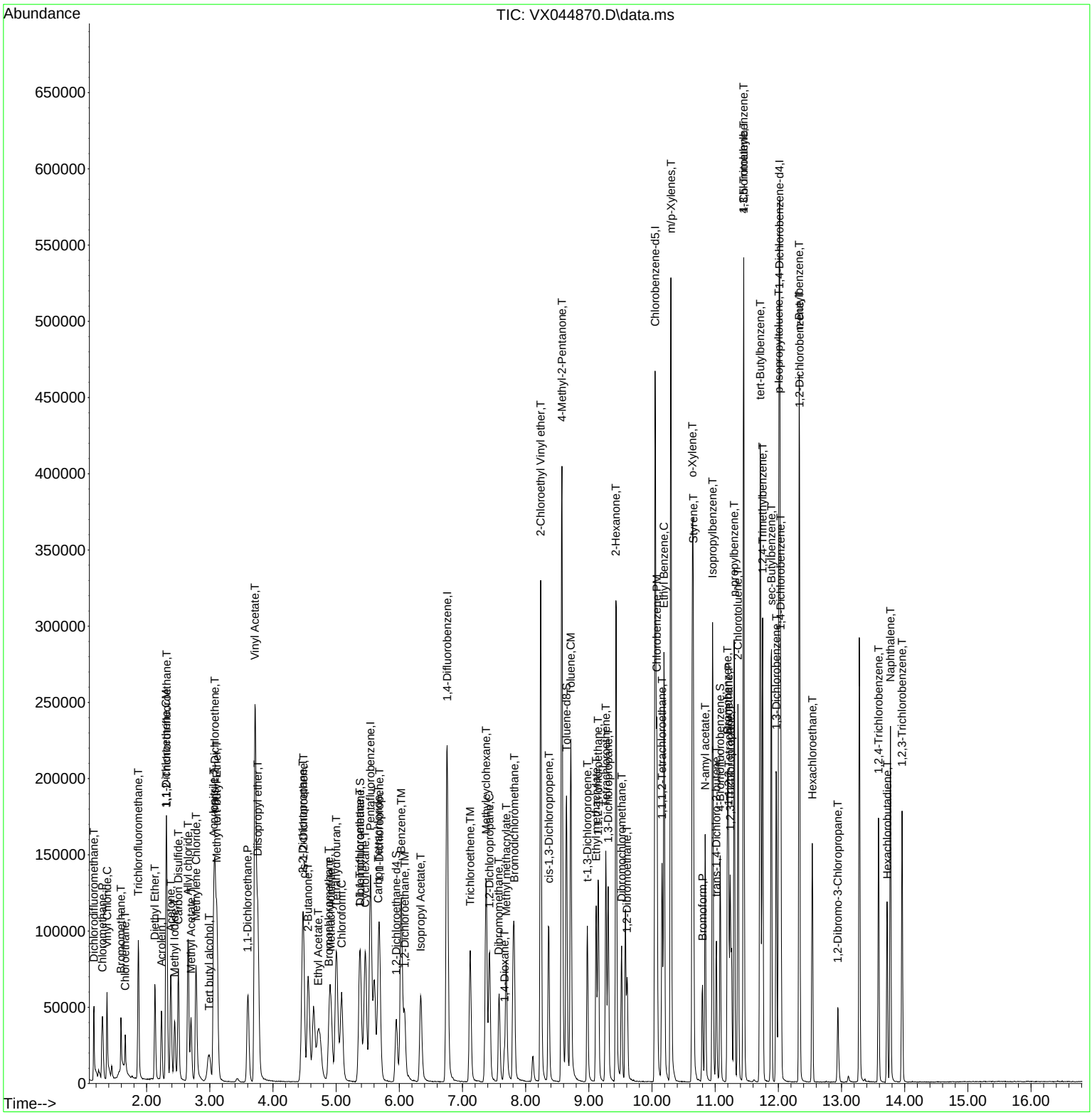
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

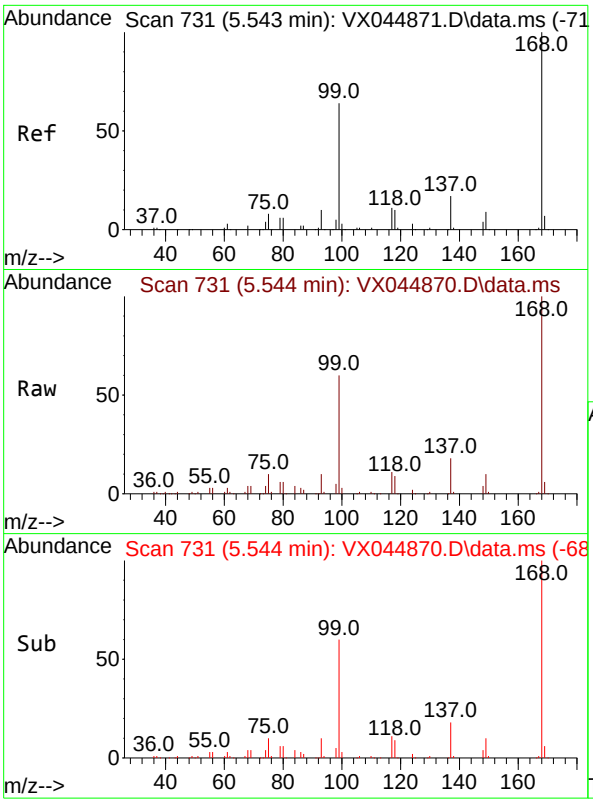
Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

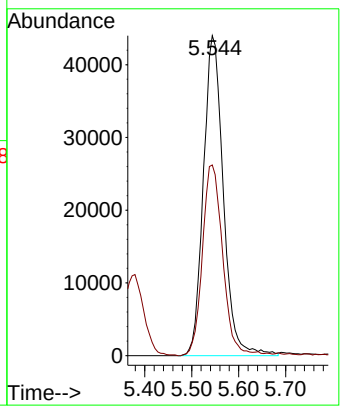




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:168 Resp: 12953

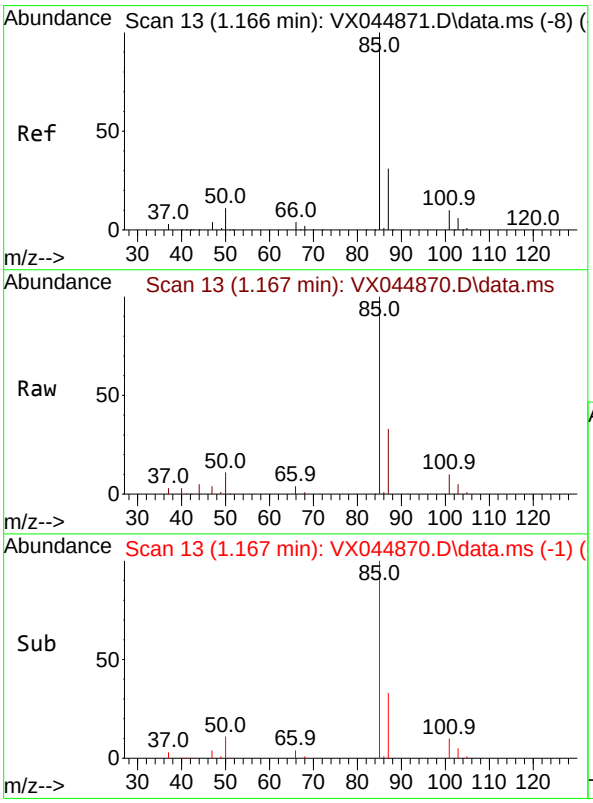
Ion	Ratio	Lower	Upper
168	100		
99	59.6	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

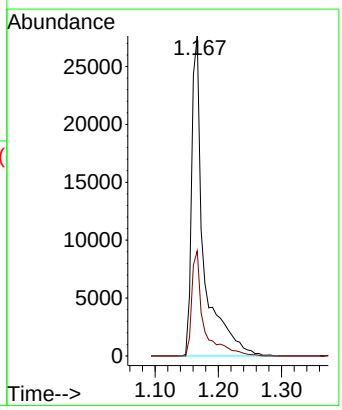
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

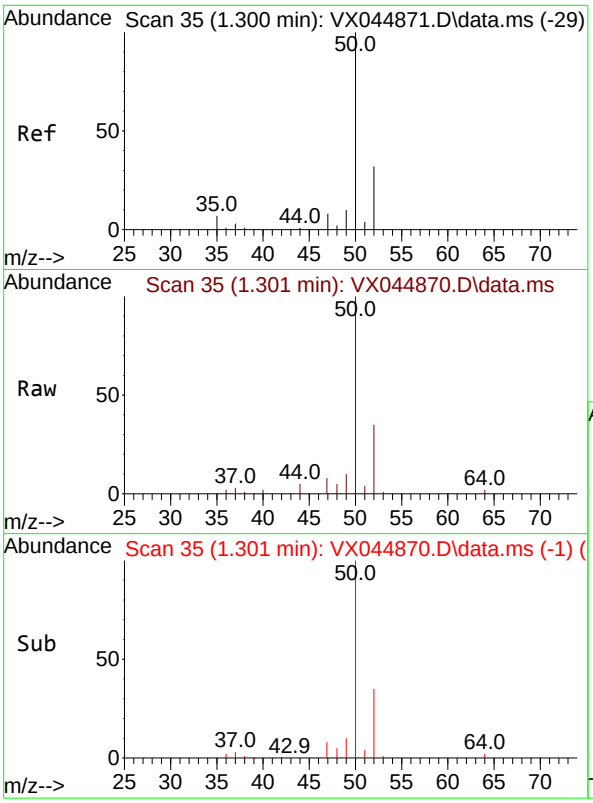


#2
Dichlorodifluoromethane
Concen: 20.434 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 85 Resp: 37123

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3

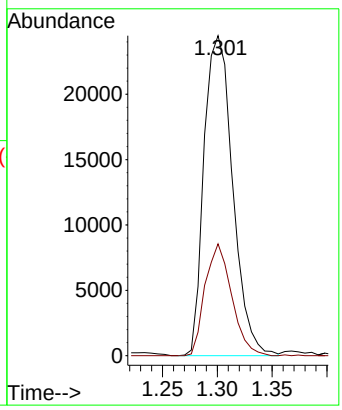




#3
Chloromethane
Concen: 20.200 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 50 Resp: 4466

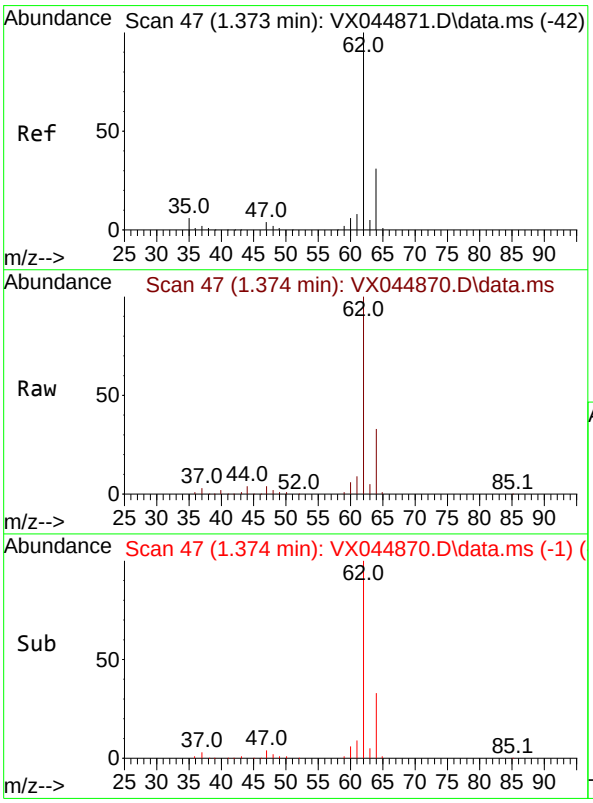
Ion	Ratio	Lower	Upper
50	100		
52	35.0	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

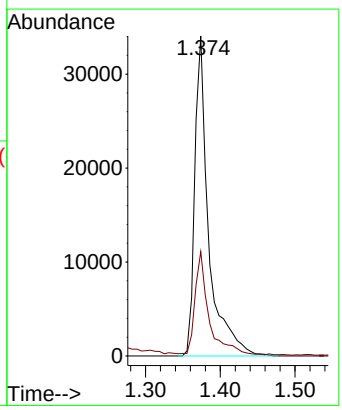
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

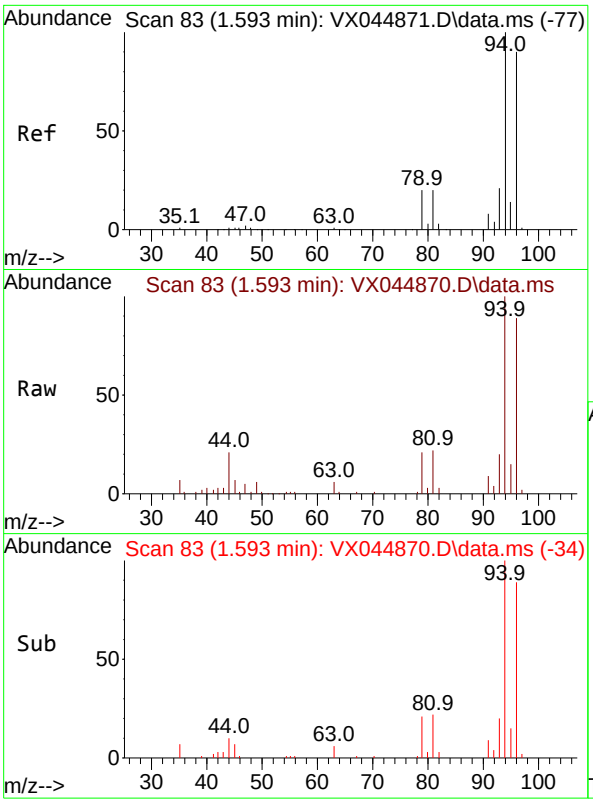


#4
Vinyl Chloride
Concen: 20.494 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 43901

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0

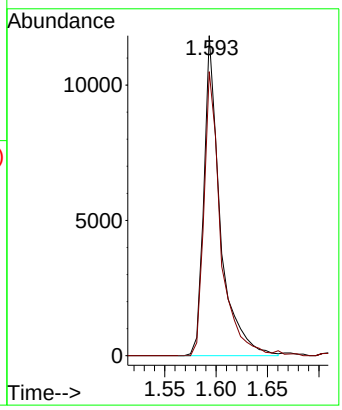




#5
Bromomethane
Concen: 20.369 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 94 Resp: 1305

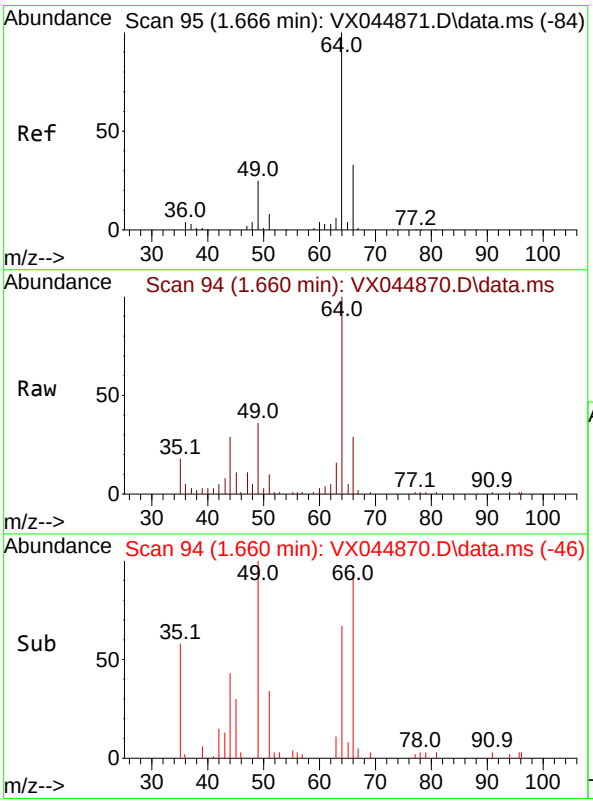
Ion	Ratio	Lower	Upper
94	100		
96	88.8	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

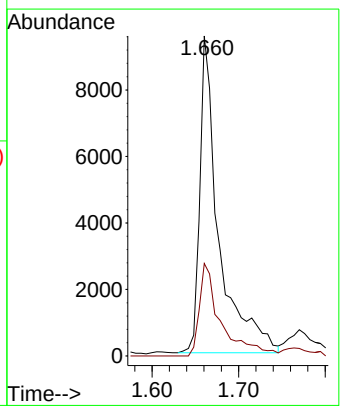
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

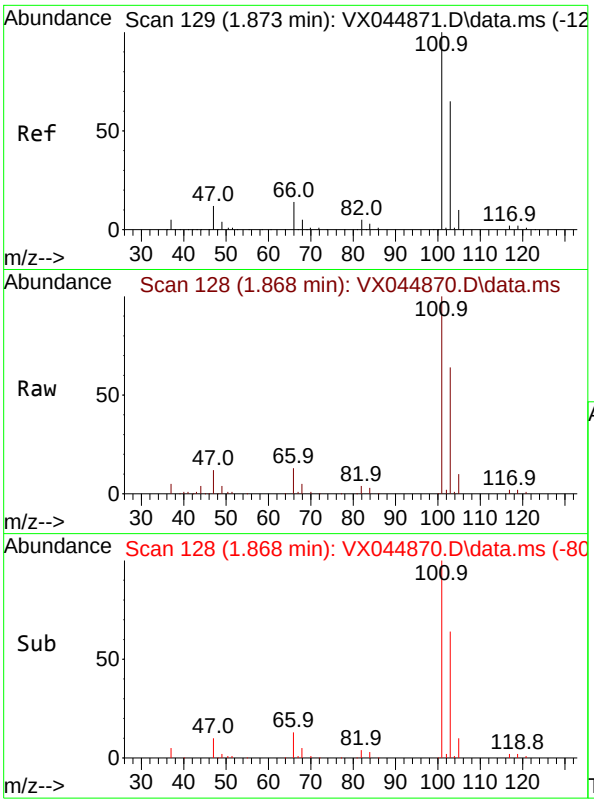


#6
Chloroethane
Concen: 16.522 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 64 Resp: 14523

Ion	Ratio	Lower	Upper
64	100		
66	29.2	25.9	38.9

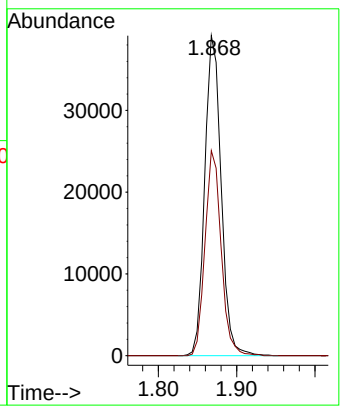




#7
Trichlorofluoromethane
Concen: 20.969 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:101 Resp: 5680

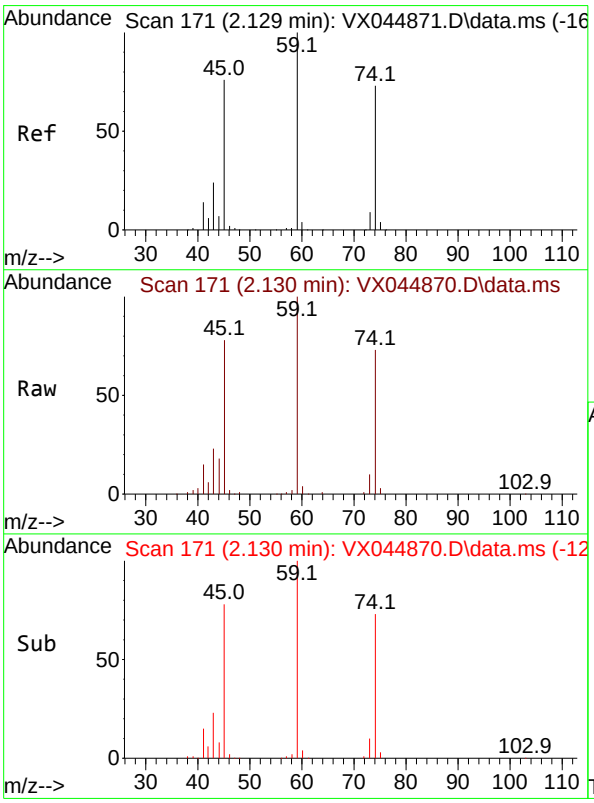
Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

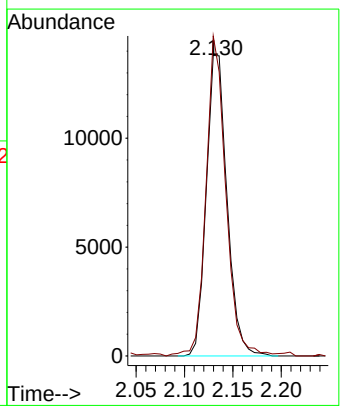
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

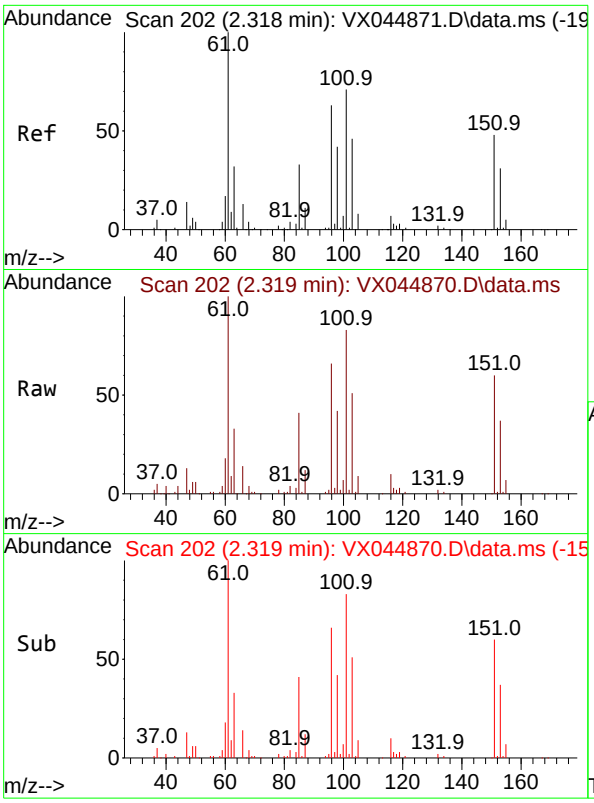


#8
Diethyl Ether
Concen: 21.069 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 74 Resp: 20699

Ion	Ratio	Lower	Upper
74	100		
45	101.2	51.1	153.4

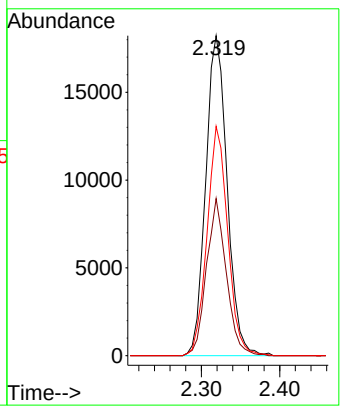




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.135 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:101 Resp: 3459

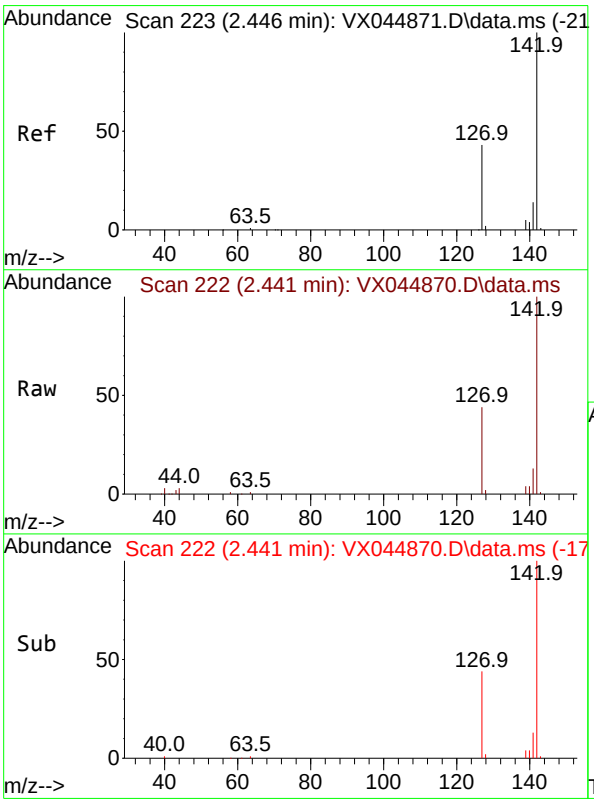
Ion	Ratio	Lower	Upper
101	100		
85	45.7	35.7	53.5
151	69.4	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

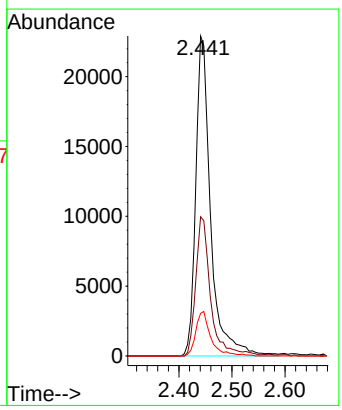
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

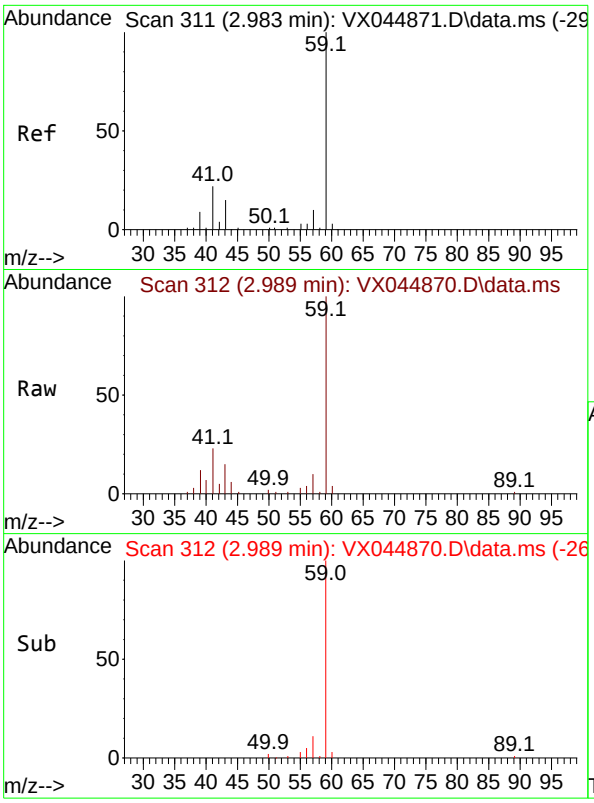


#10
Methyl Iodide
Concen: 21.096 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:142 Resp: 44749

Ion	Ratio	Lower	Upper
142	100		
127	43.4	34.3	51.5
141	14.0	11.4	17.2

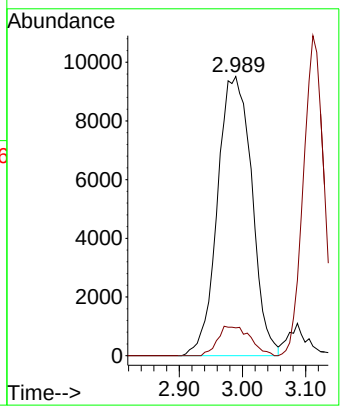




#11
Tert butyl alcohol
Concen: 101.870 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 59 Resp: 3583

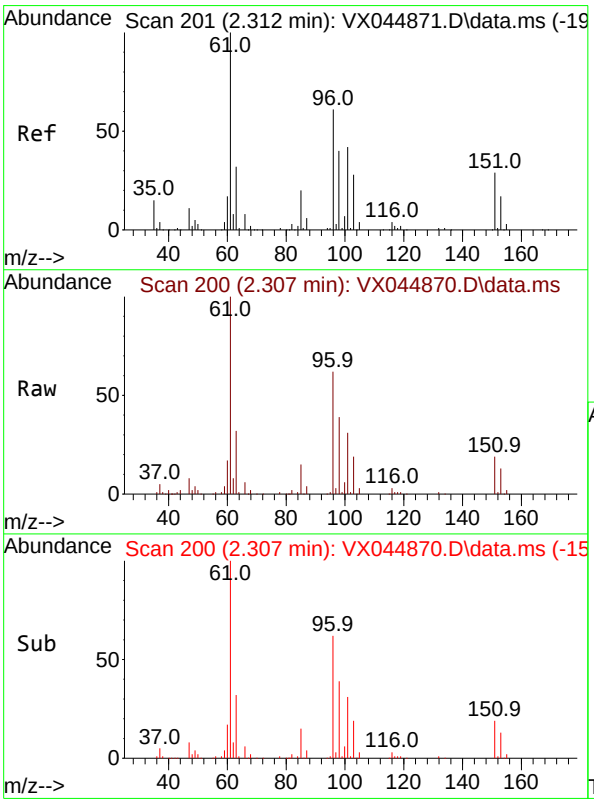
Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

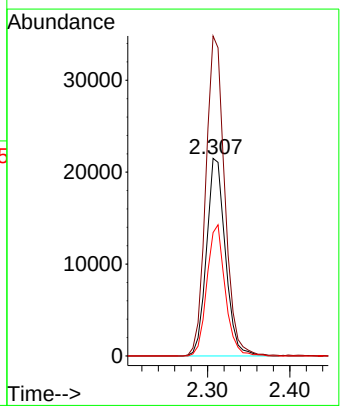
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

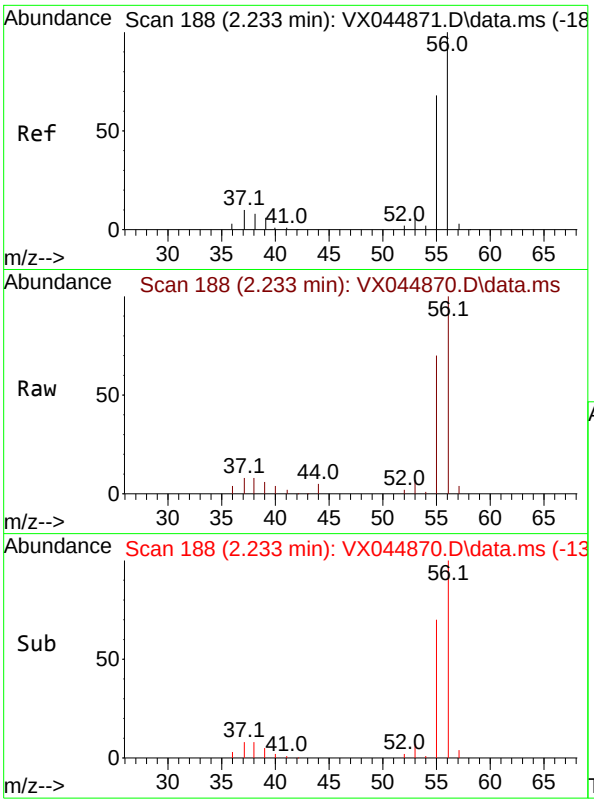


#12
1,1-Dichloroethene
Concen: 20.526 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 96 Resp: 34270

Ion	Ratio	Lower	Upper
96	100		
61	161.9	130.2	195.4
98	62.4	52.2	78.4

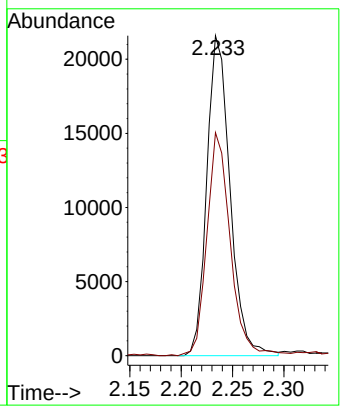




#13
Acrolein
Concen: 93.445 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 56 Resp: 3391

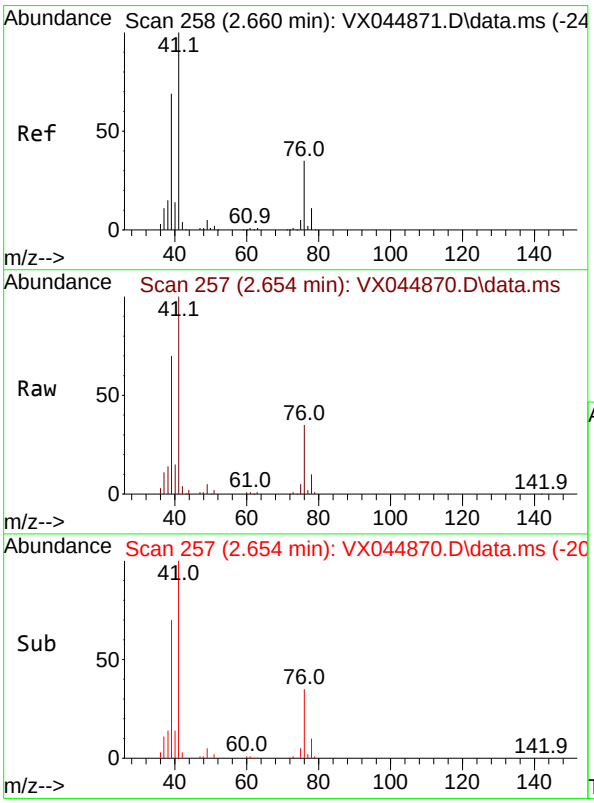
Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

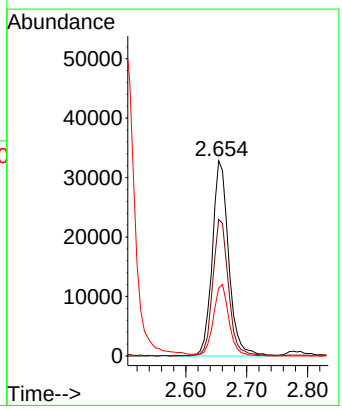
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

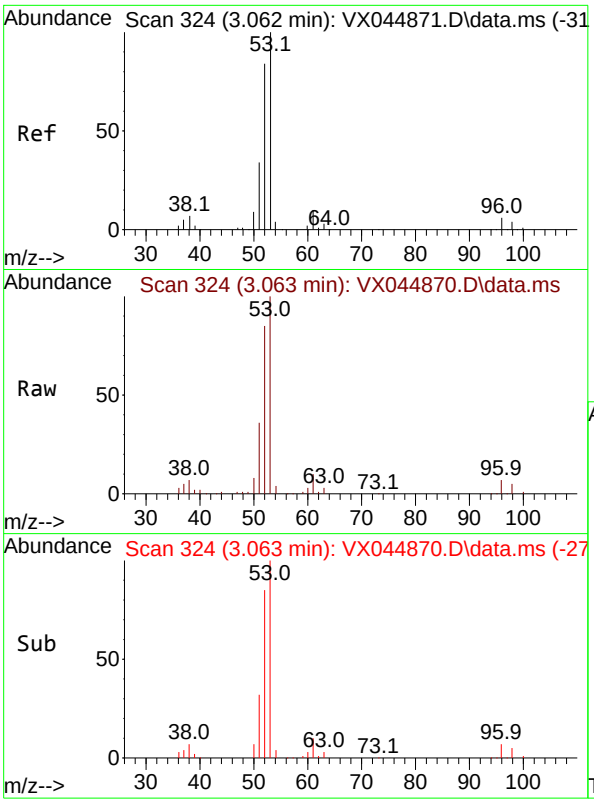


#14
Allyl chloride
Concen: 20.377 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 61485

Ion	Ratio	Lower	Upper
41	100		
39	65.8	51.4	77.2
76	34.9	27.0	40.4

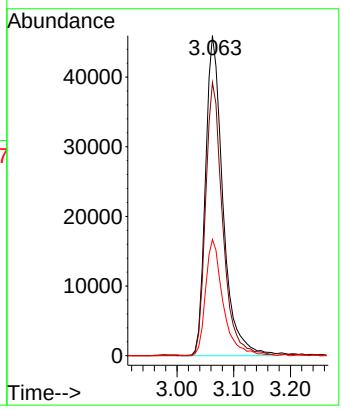




#15
Acrylonitrile
Concen: 104.896 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 53 Resp: 9851

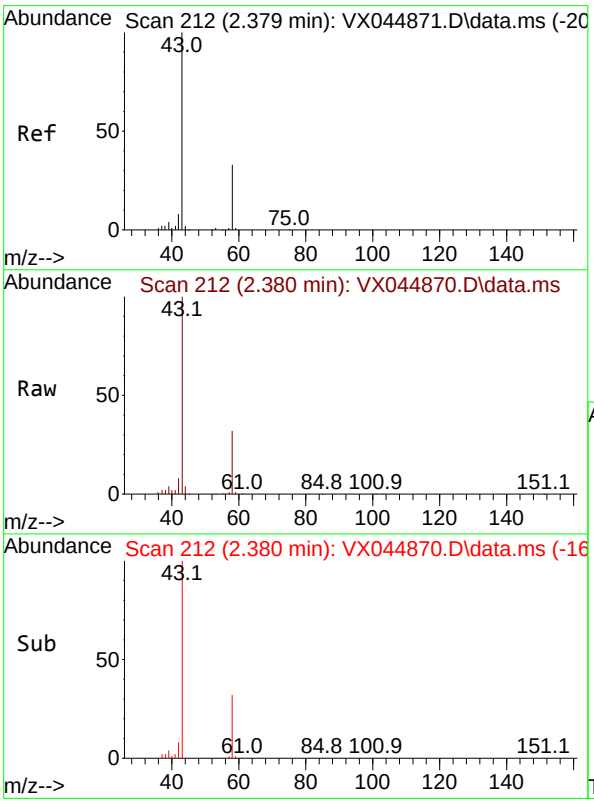
Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.0	97.6
51	36.3	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

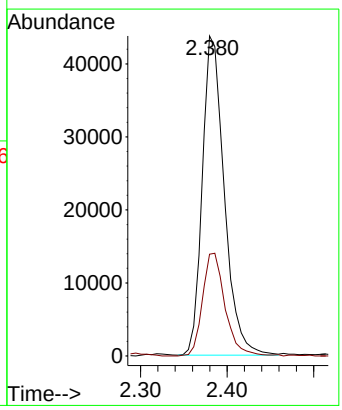
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

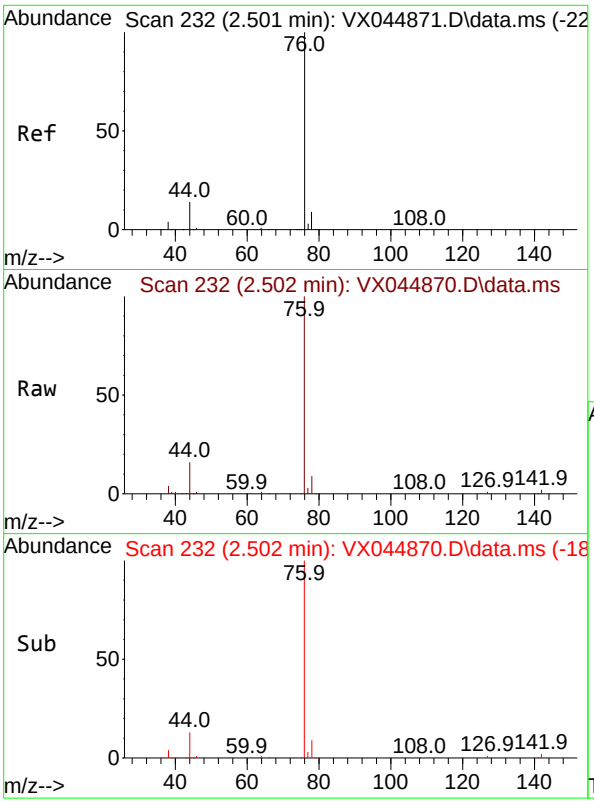


#16
Acetone
Concen: 101.119 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 77078

Ion	Ratio	Lower	Upper
43	100		
58	31.9	26.5	39.7

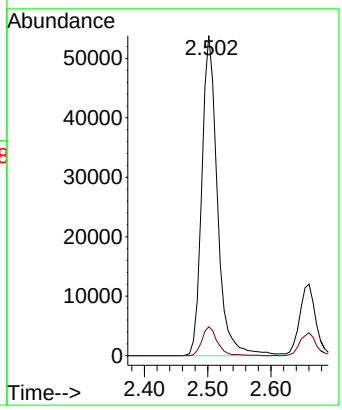




#17
Carbon Disulfide
Concen: 20.216 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 76 Resp: 9255

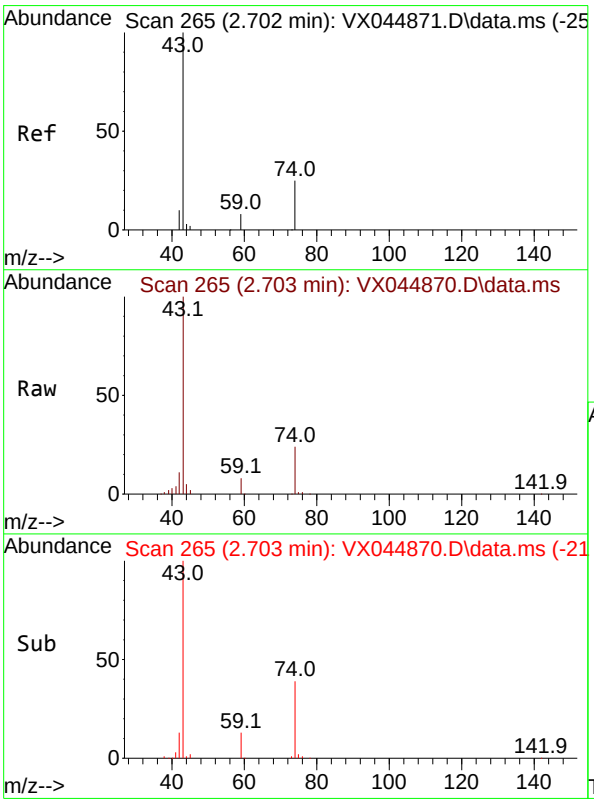
Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

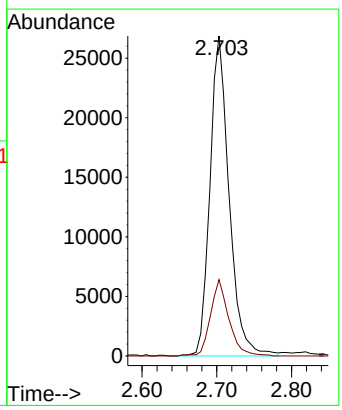
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

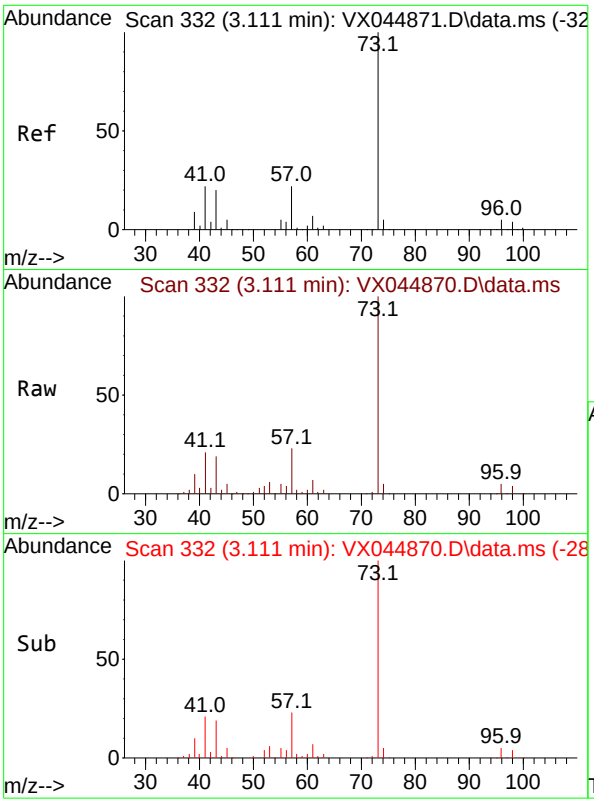


#18
Methyl Acetate
Concen: 19.943 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 47970

Ion	Ratio	Lower	Upper
43	100		
74	22.9	18.9	28.3

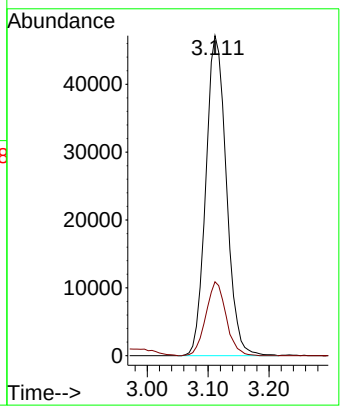




#19
Methyl tert-butyl Ether
Concen: 20.779 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 73 Resp: 11037

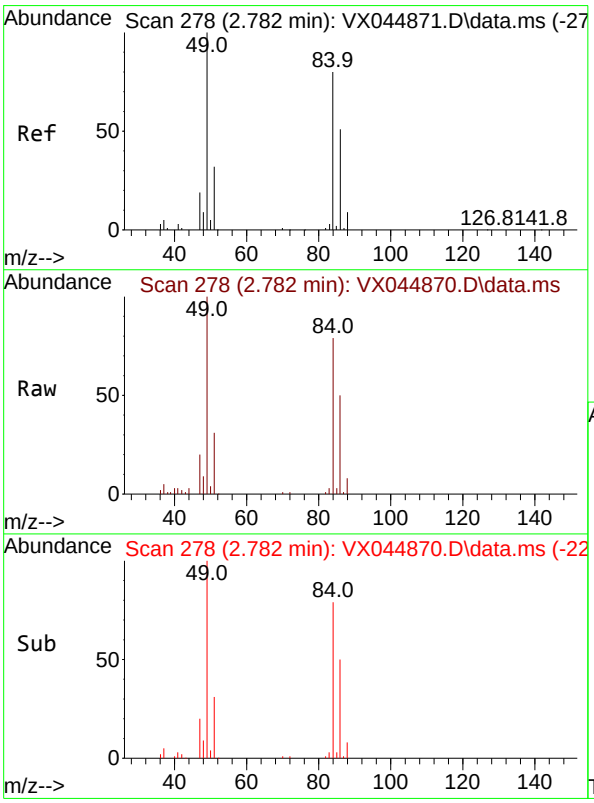
Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

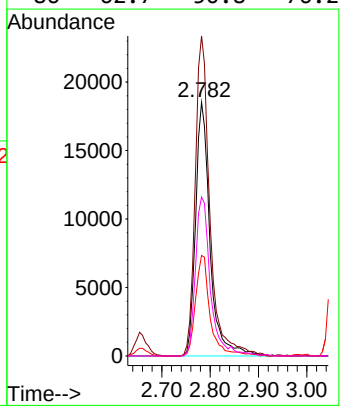
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

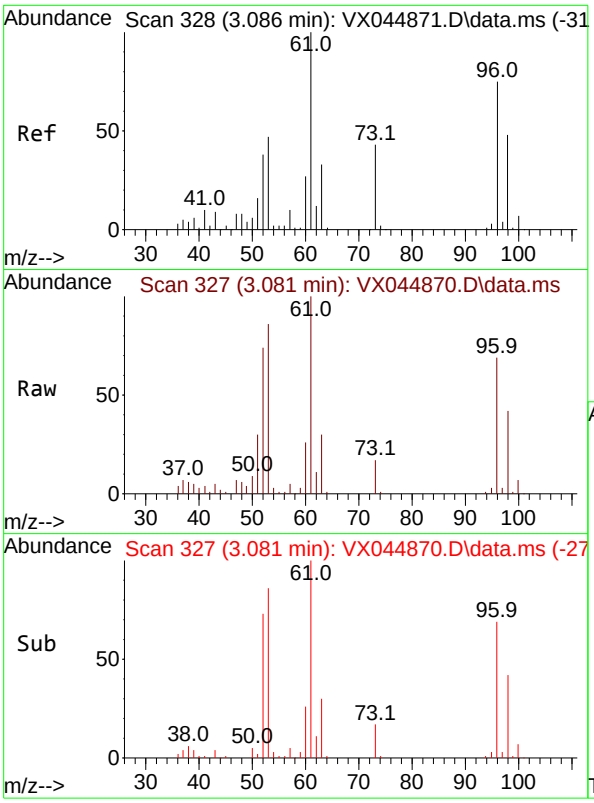


#20
Methylene Chloride
Concen: 20.562 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 84 Resp: 38390

Ion	Ratio	Lower	Upper
84	100		
49	126.2	100.1	150.1
51	39.6	31.7	47.5
86	62.7	50.8	76.2

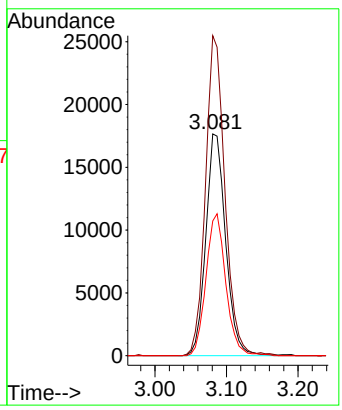




#21
trans-1,2-Dichloroethene
Concen: 20.730 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 96 Resp: 3406

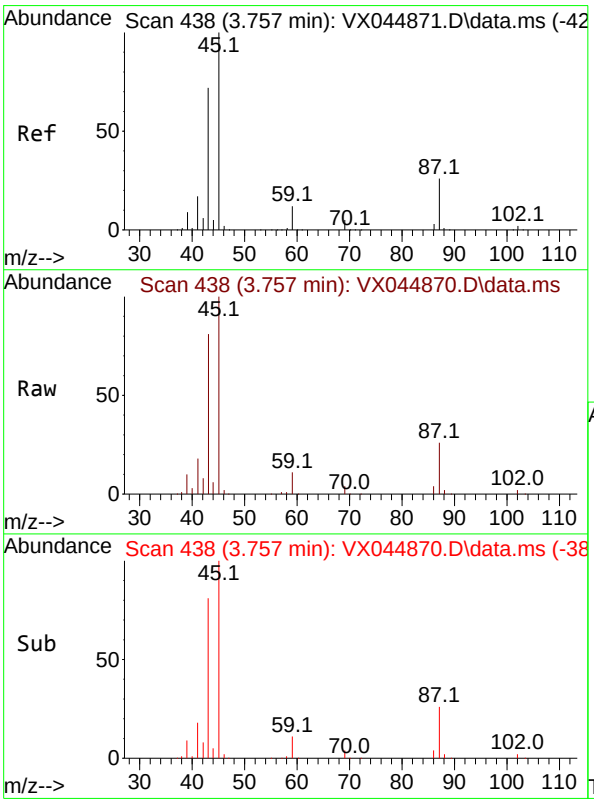
Ion	Ratio	Lower	Upper
96	100		
61	144.3	106.0	159.0
98	60.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

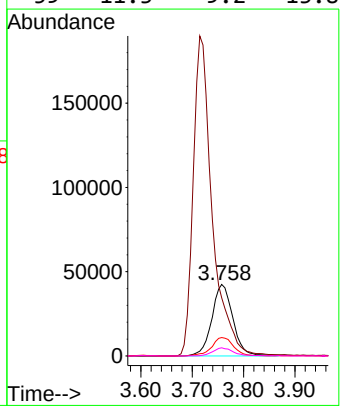
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

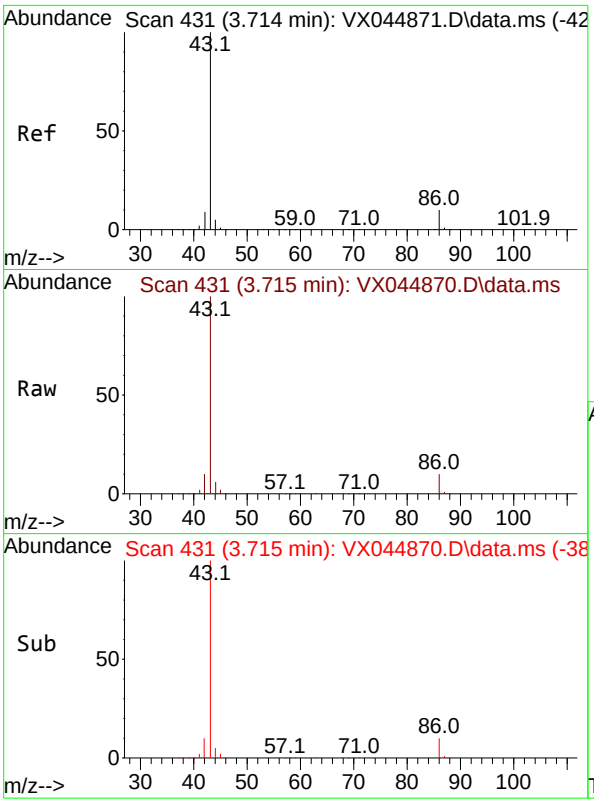


#22
Diisopropyl ether
Concen: 21.074 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 45 Resp: 120300

Ion	Ratio	Lower	Upper
45	100		
43	80.8	58.0	87.0
87	25.8	20.7	31.1
59	11.3	9.2	13.8





#23
Vinyl Acetate
Concen: 105.341 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

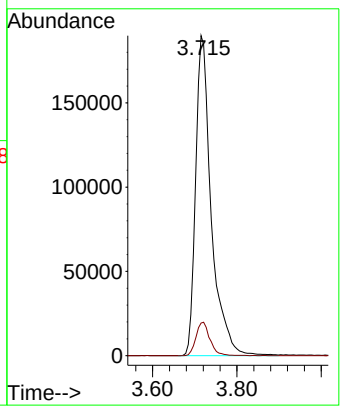
Tgt Ion: 43 Resp: 49023

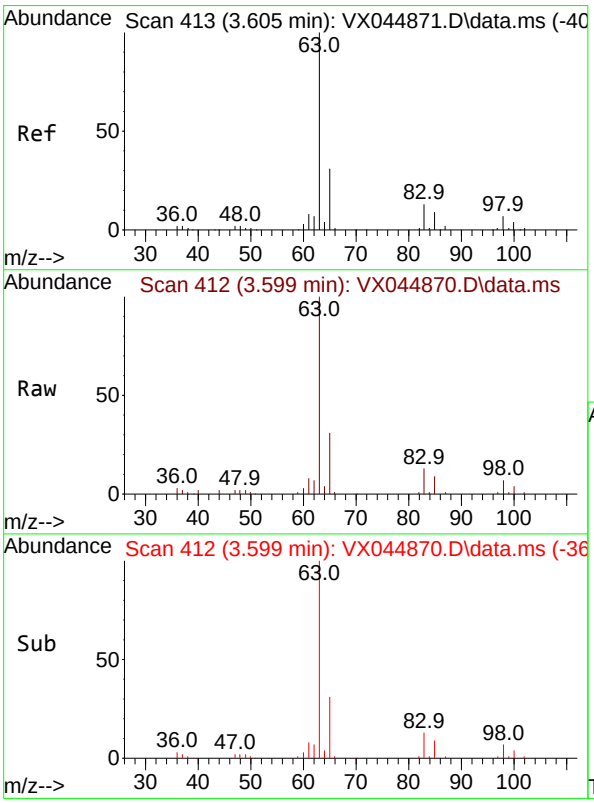
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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

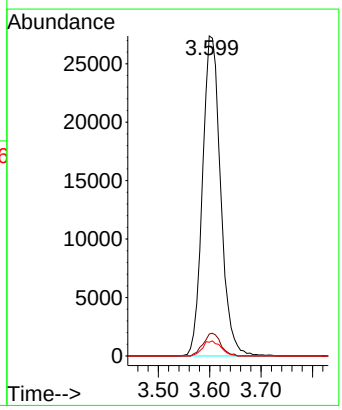


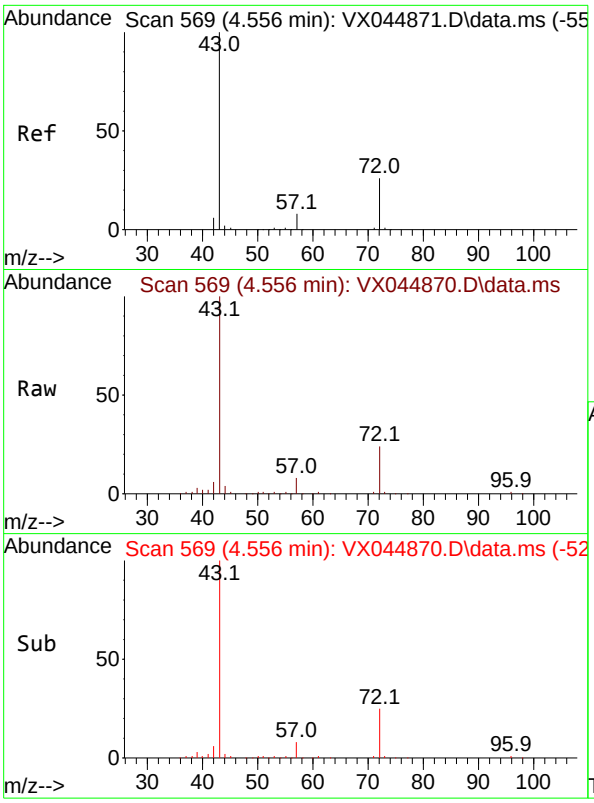


#24
1,1-Dichloroethane
Concen: 20.958 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 66942

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.9
100	4.3	2.1	6.5

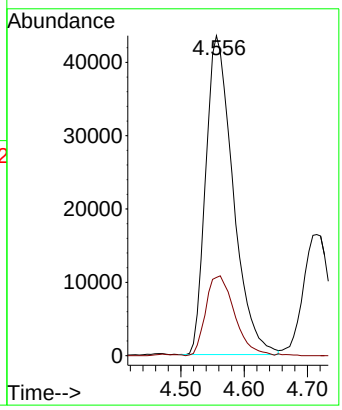




#25
2-Butanone
Concen: 105.417 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 13048

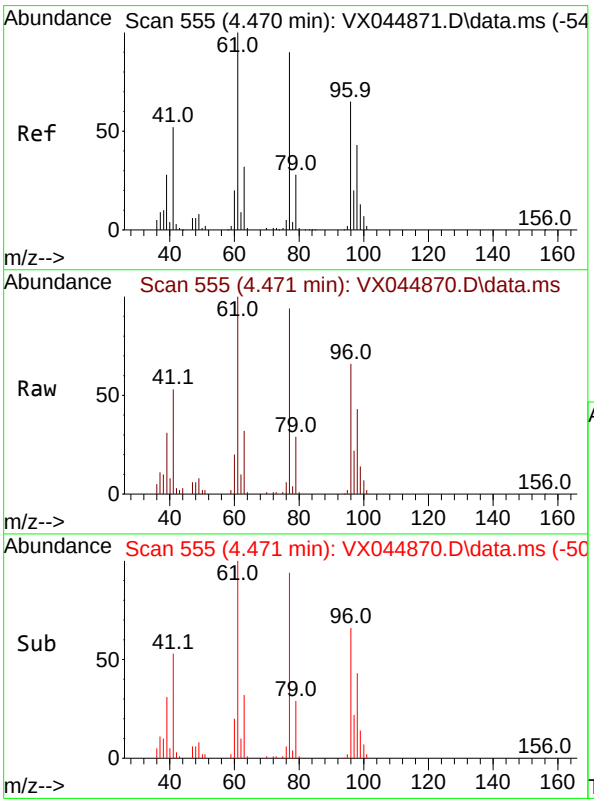
Ion	Ratio	Lower	Upper
43	100		
72	24.2	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

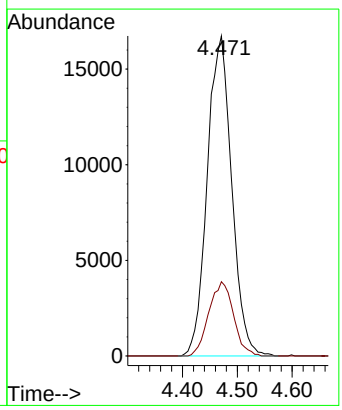
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

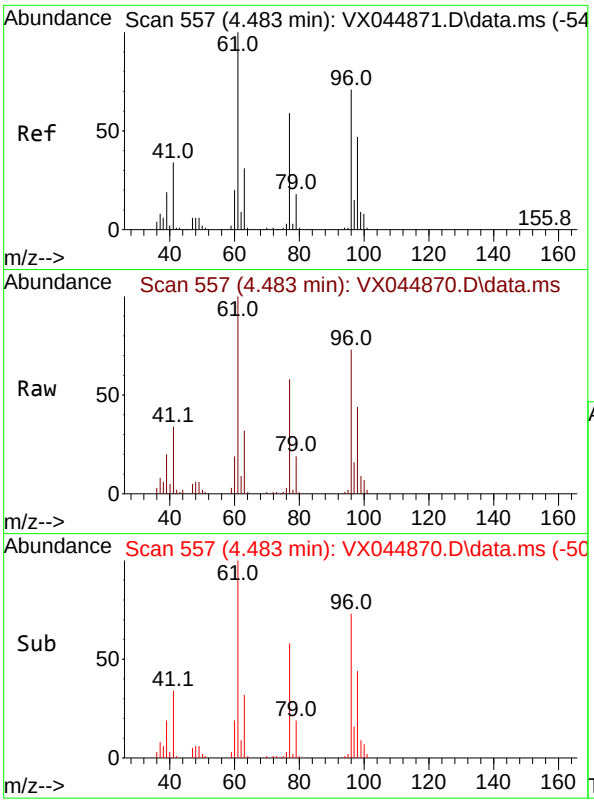


#26
2,2-Dichloropropane
Concen: 20.451 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 77 Resp: 51803

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.8	35.3

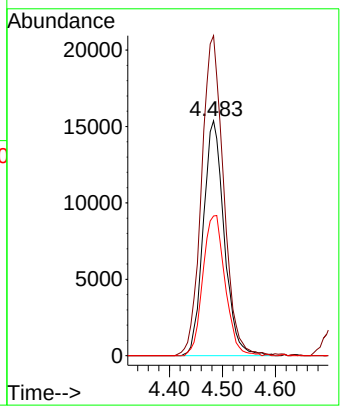




#27
cis-1,2-Dichloroethene
Concen: 21.328 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 96 Resp: 4209

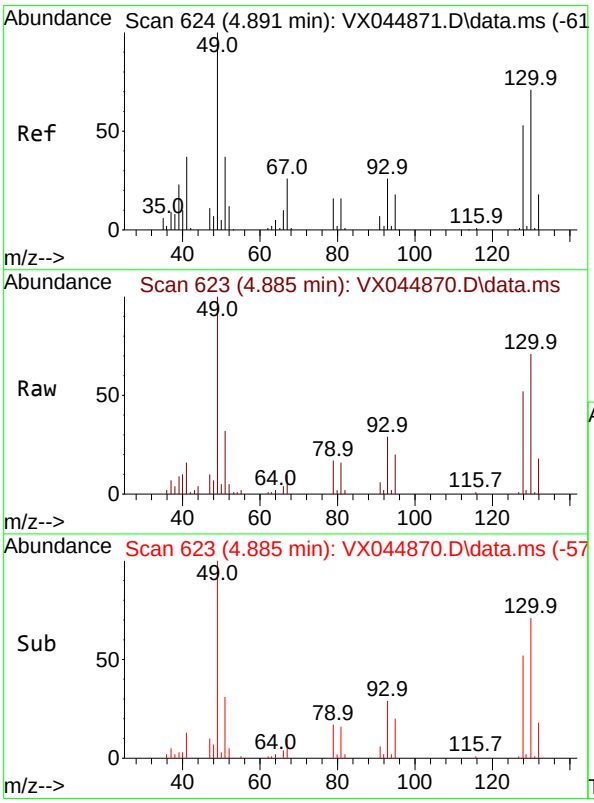
Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	294.0
98	63.4	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

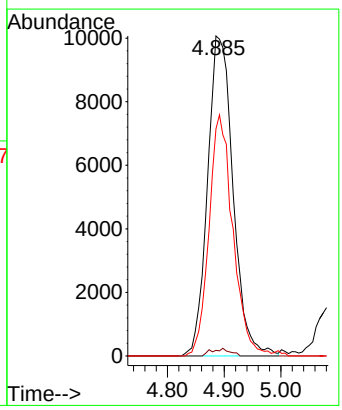
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

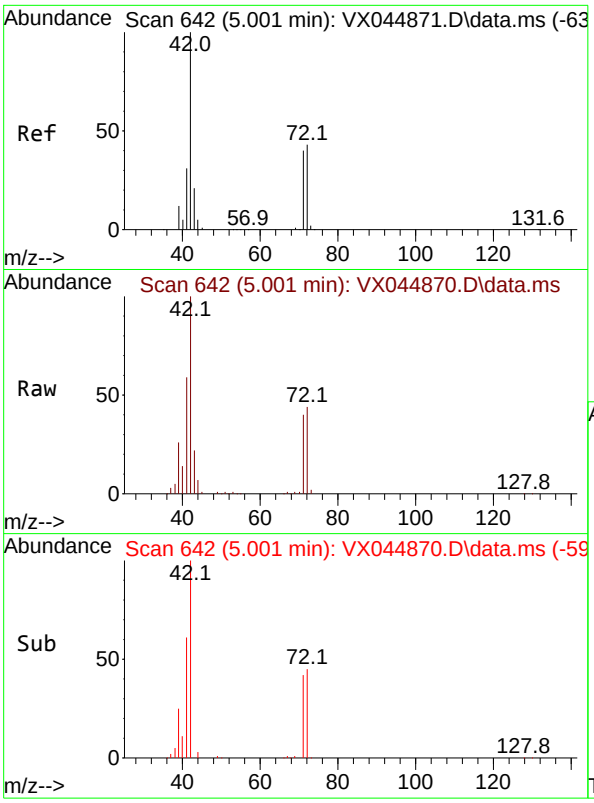


#28
Bromochloromethane
Concen: 20.504 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 49 Resp: 31474

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	70.3	56.7	85.1

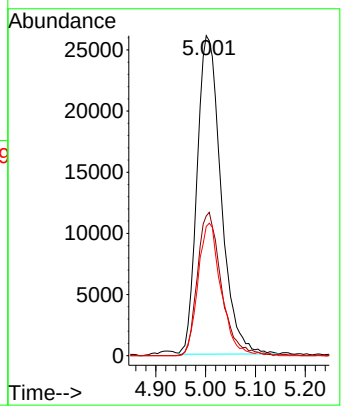




#29
Tetrahydrofuran
Concen: 105.700 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 42 Resp: 8687

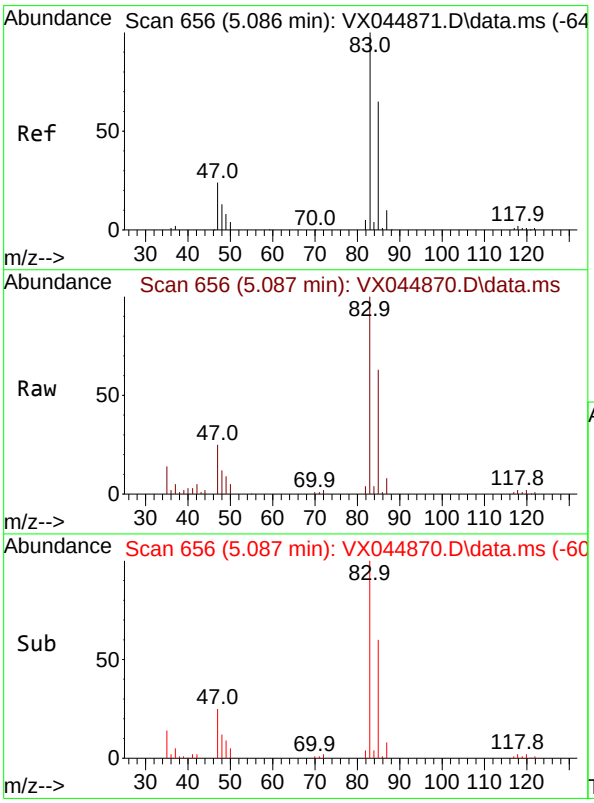
Ion	Ratio	Lower	Upper
42	100		
72	44.9	35.0	52.4
71	40.4	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

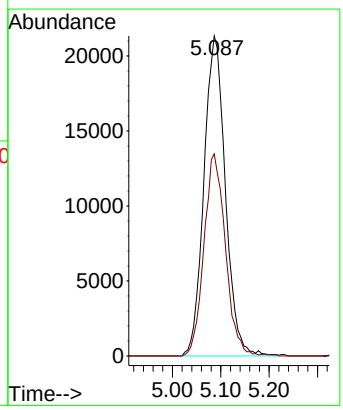
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

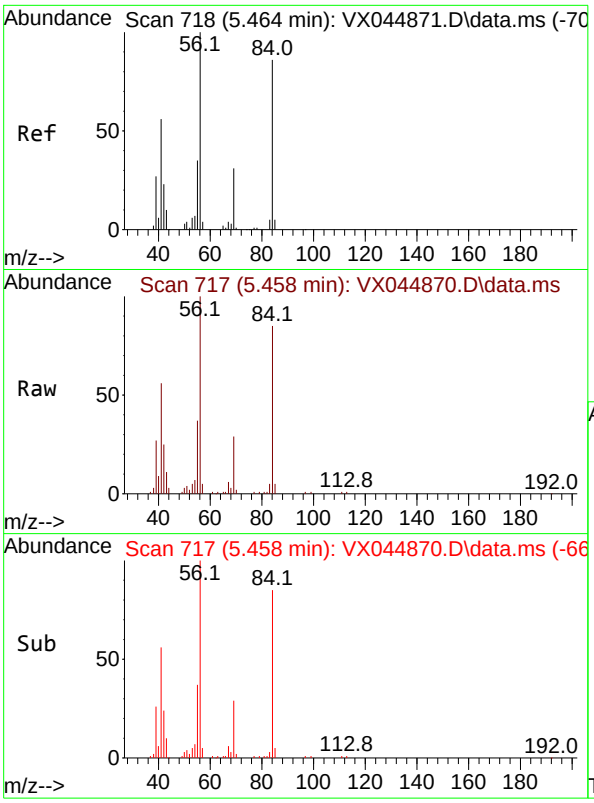


#30
Chloroform
Concen: 21.217 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 65721

Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.1	78.1

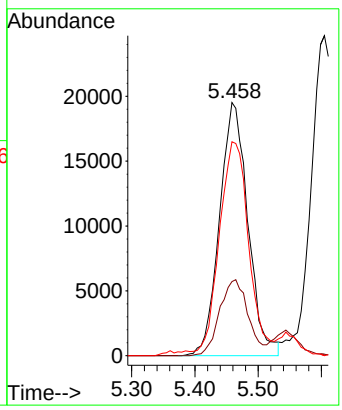




#31
Cyclohexane
Concen: 20.653 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 56 Resp: 6081

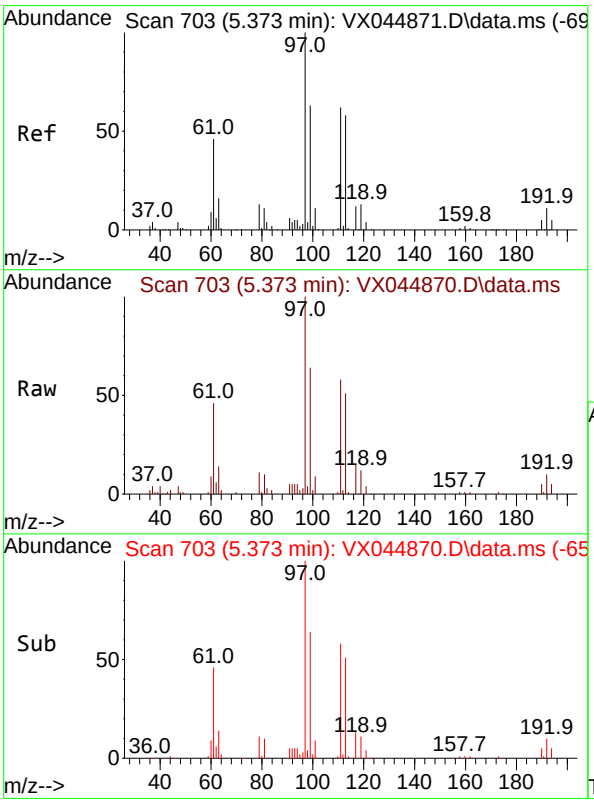
Ion	Ratio	Lower	Upper
56	100		
69	29.2	24.4	36.6
84	83.1	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

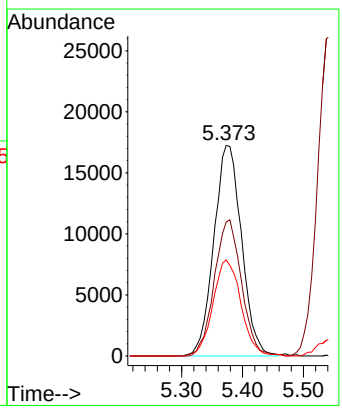
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

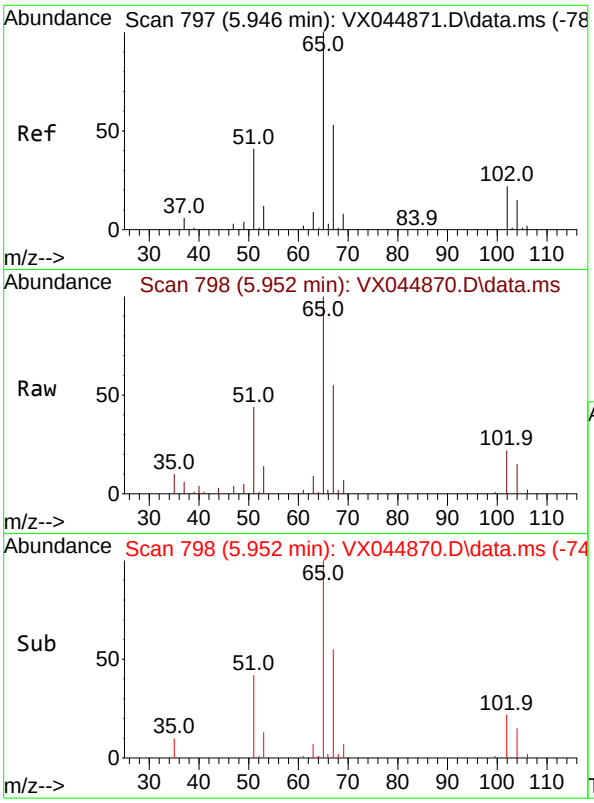


#32
1,1,1-Trichloroethane
Concen: 20.724 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 97 Resp: 54450

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.0	76.6
61	45.9	36.6	55.0

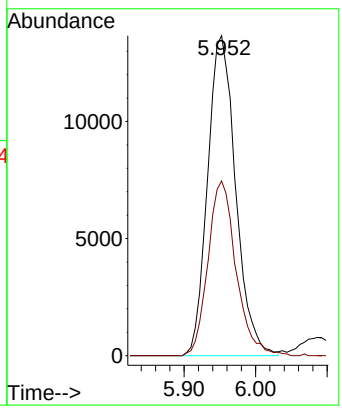




#33
1,2-Dichloroethane-d4
Concen: 19.616 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 65 Resp: 3719

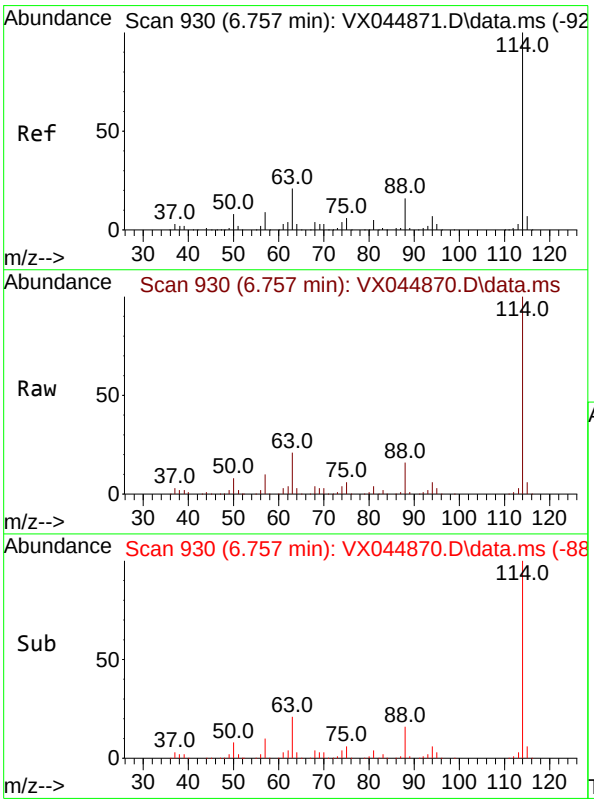
Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

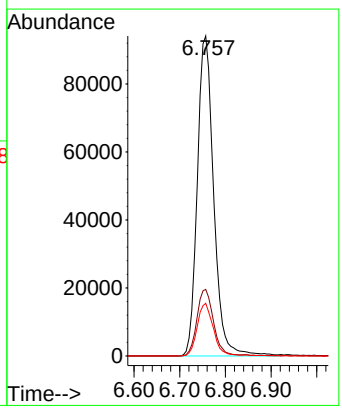
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

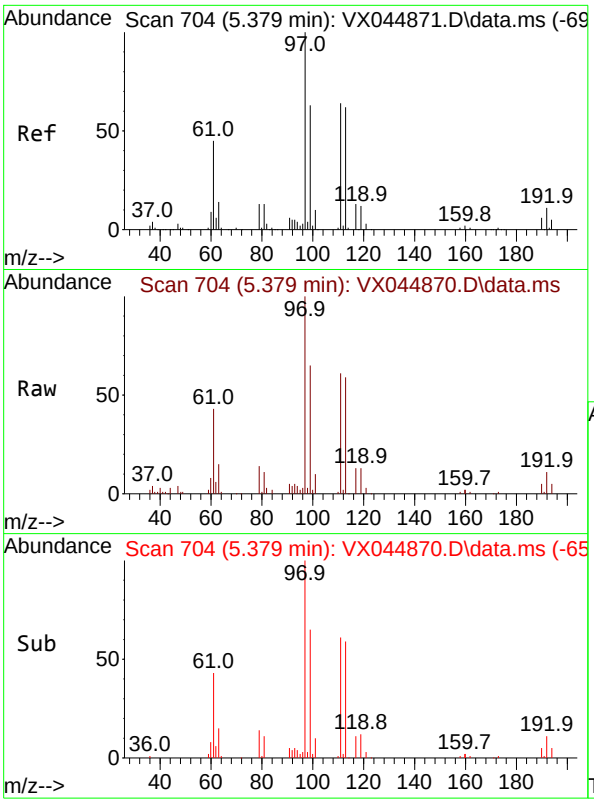


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:114 Resp: 234445

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.4
88	16.4	0.0	31.4

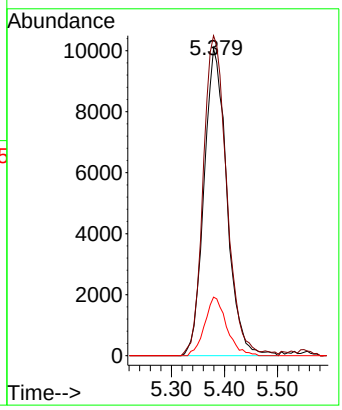




#35
Dibromofluoromethane
Concen: 19.793 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:113 Resp: 3017

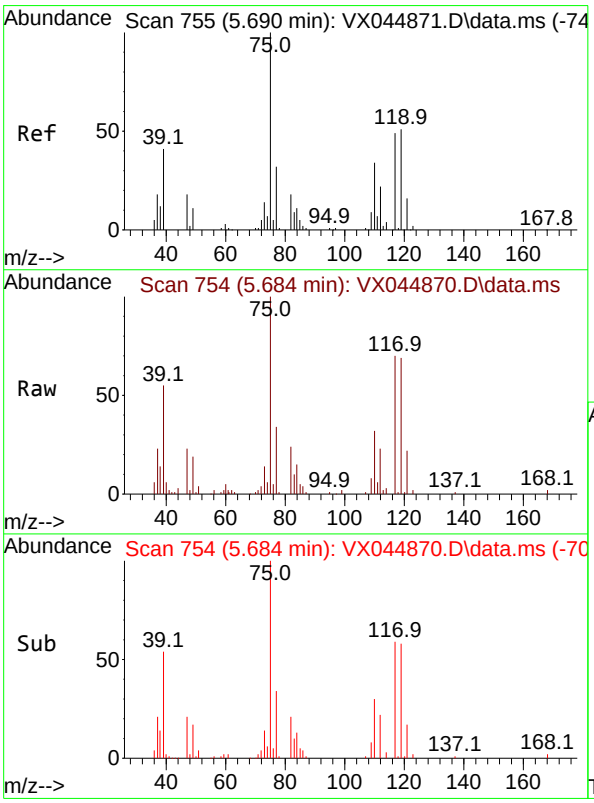
Ion	Ratio	Lower	Upper
113	100		
111	106.3	83.5	125.3
192	18.3	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

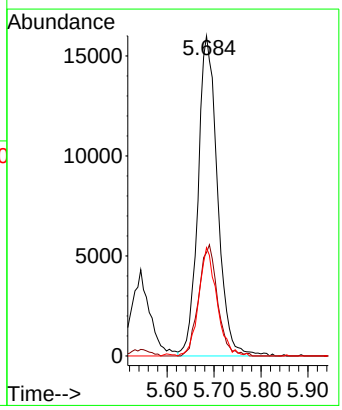
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

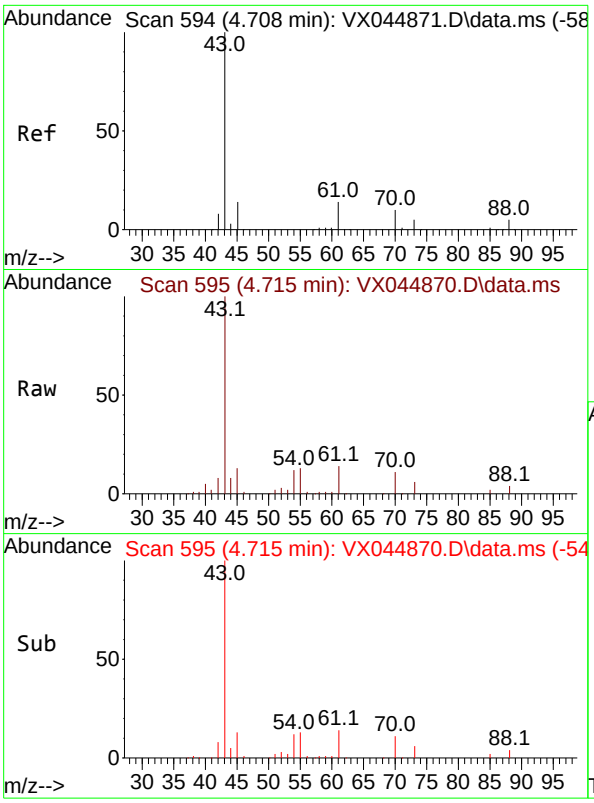


#36
1,1-Dichloropropene
Concen: 20.913 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 45991

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.2	51.6
77	31.7	24.6	37.0

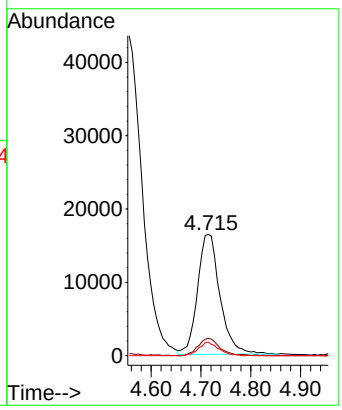




#37
Ethyl Acetate
Concen: 20.949 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 5124

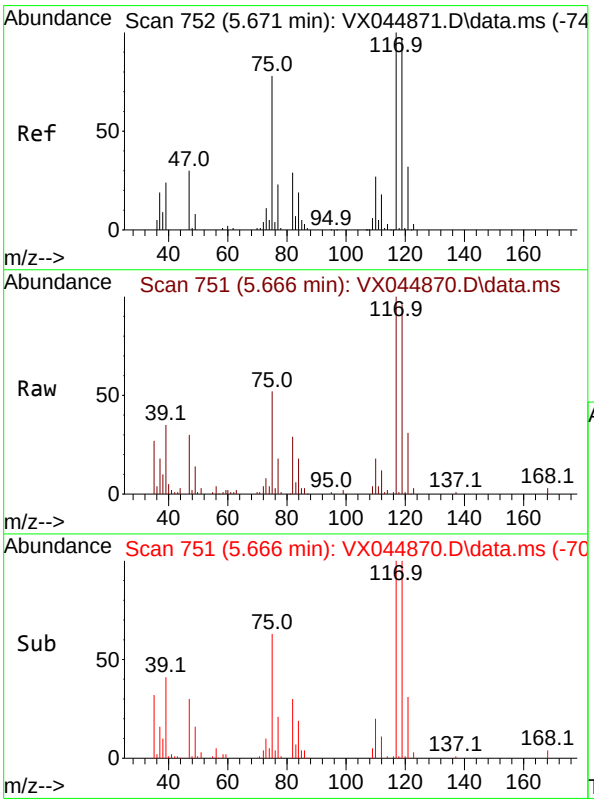
Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.4
70	9.9	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

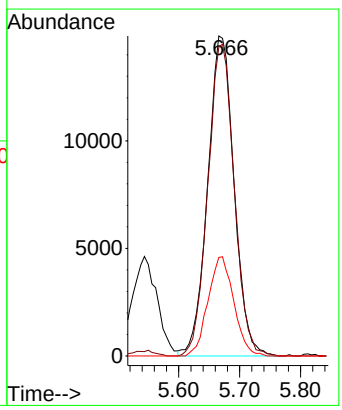
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

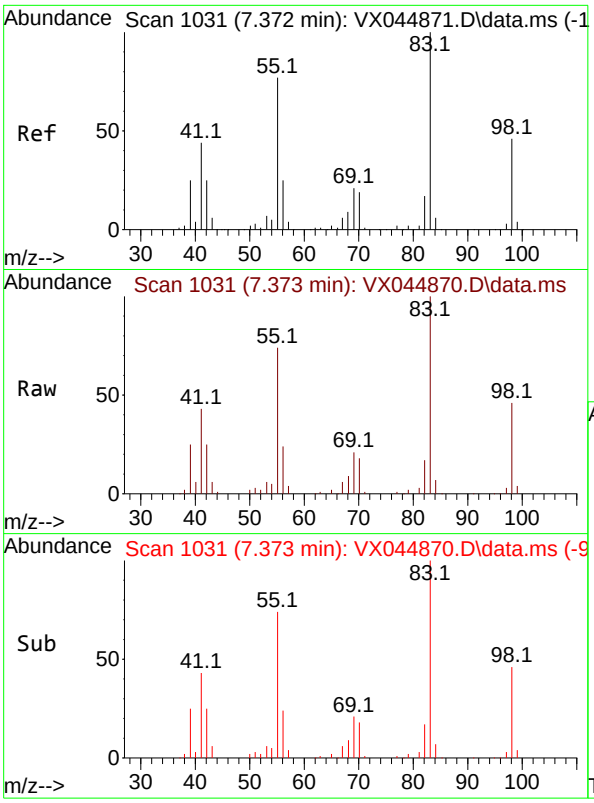


#38
Carbon Tetrachloride
Concen: 20.790 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 44802

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.5	116.3
121	30.8	25.6	38.4

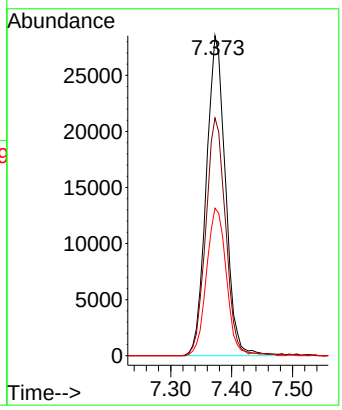




#39
Methylcyclohexane
Concen: 21.985 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 6250

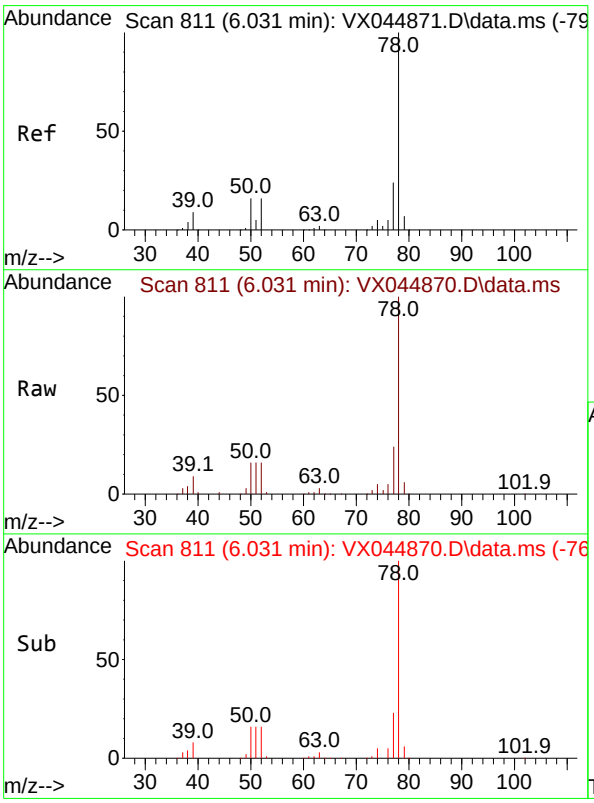
Ion	Ratio	Lower	Upper
83	100		
55	74.3	61.3	91.9
98	46.1	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

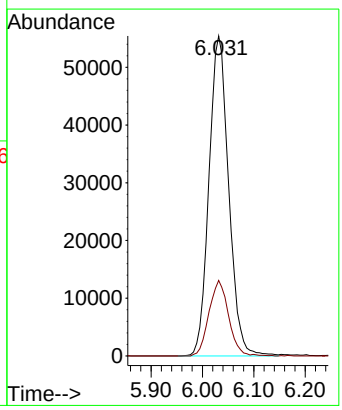
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

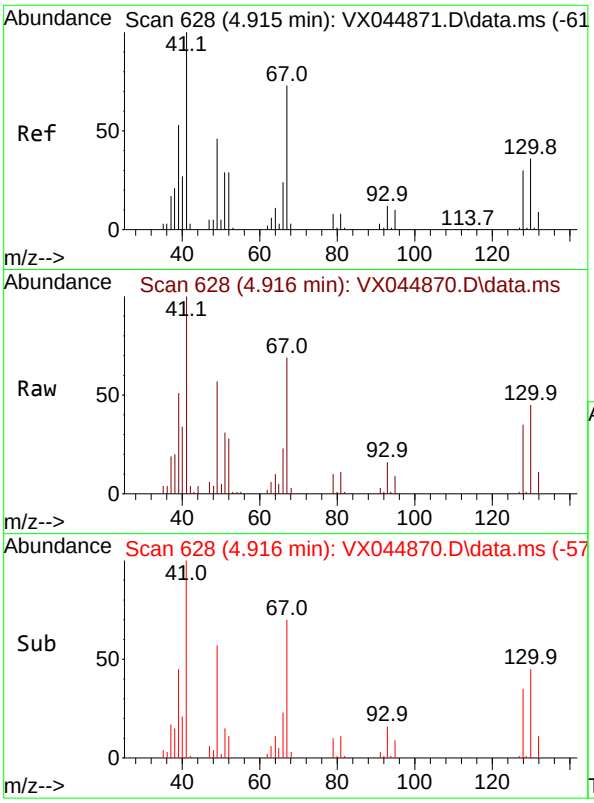


#40
Benzene
Concen: 21.540 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 78 Resp: 147912

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6

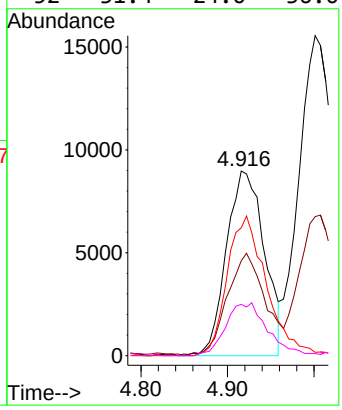




#41
Methacrylonitrile
Concen: 20.887 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 2734

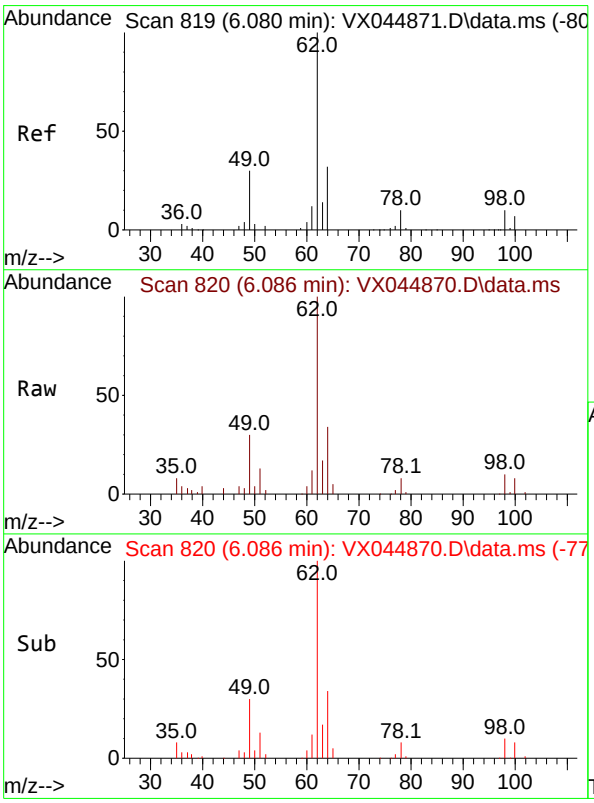
Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.1	64.7
67	78.6	57.0	85.6
52	31.4	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

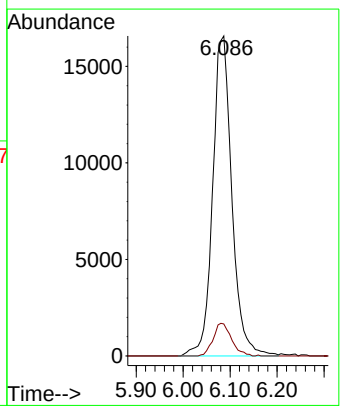
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

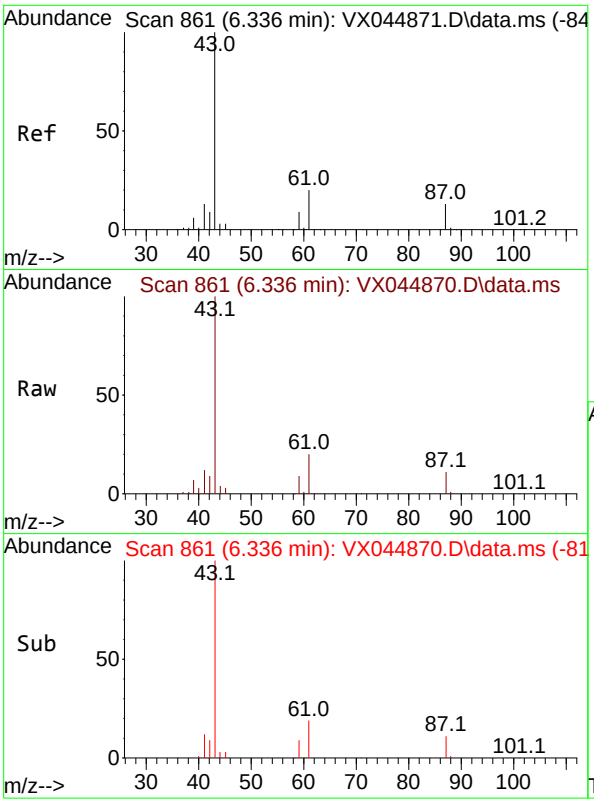


#42
1,2-Dichloroethane
Concen: 21.519 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 47095

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4

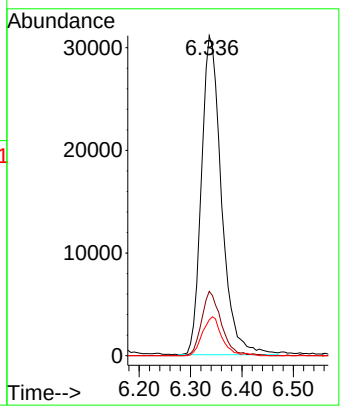




#43
Isopropyl Acetate
Concen: 21.343 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 8430

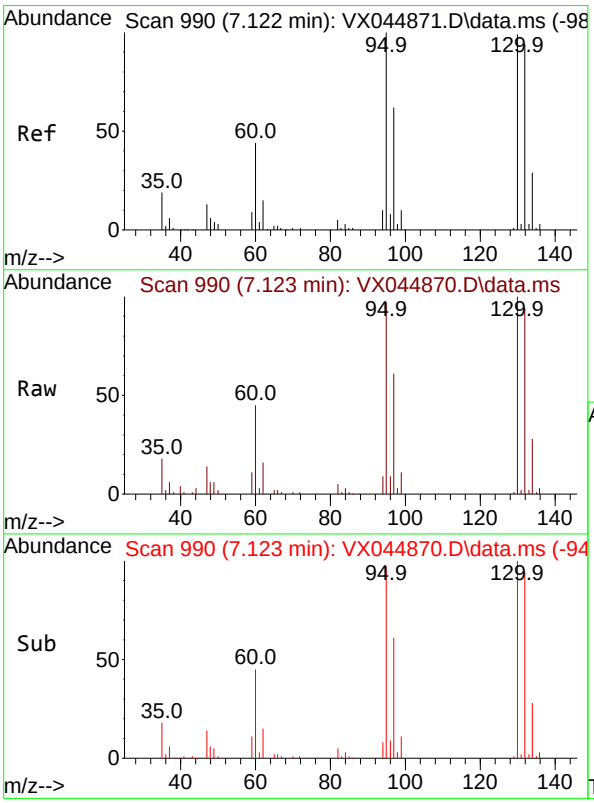
Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.8	23.8
87	11.6	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

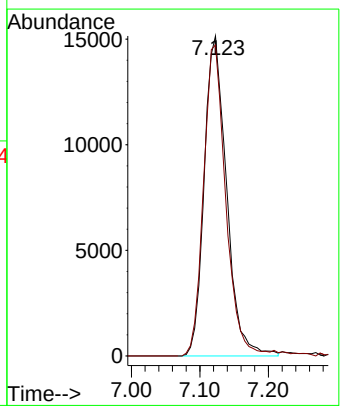
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

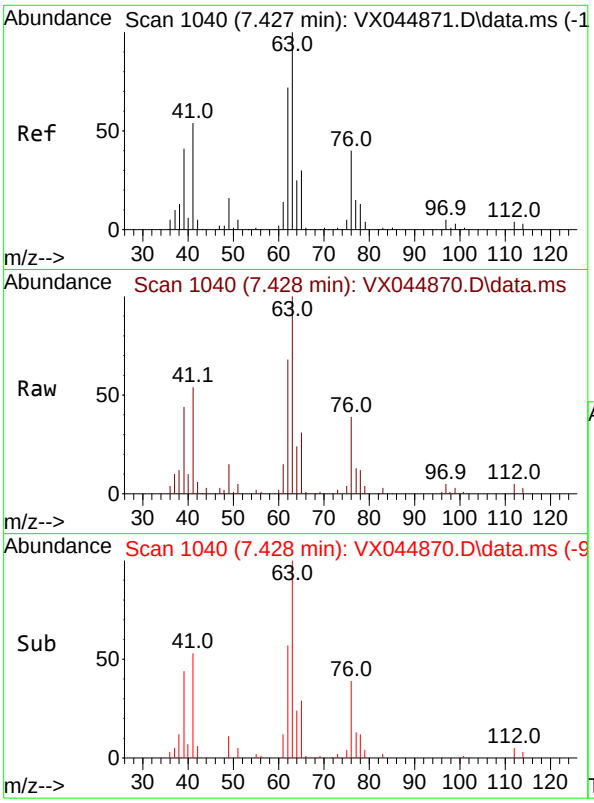


#44
Trichloroethene
Concen: 21.910 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:130 Resp: 34390

Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	202.4

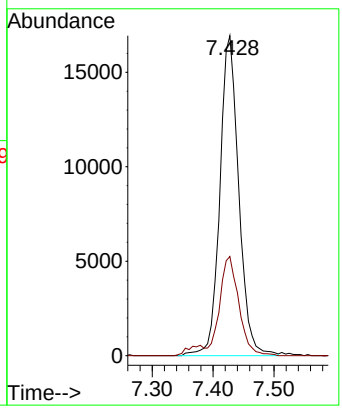




#45
1,2-Dichloropropane
Concen: 21.371 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 3651

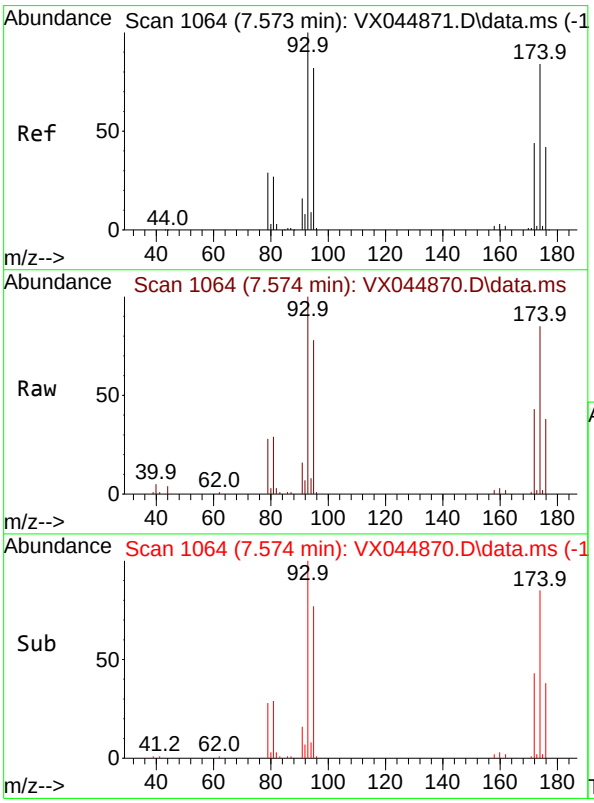
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

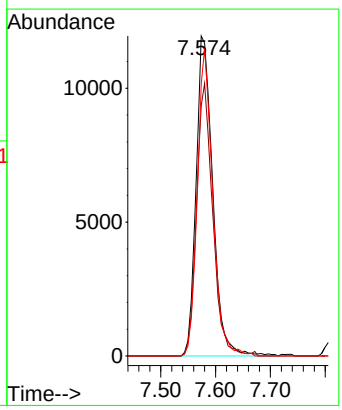
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

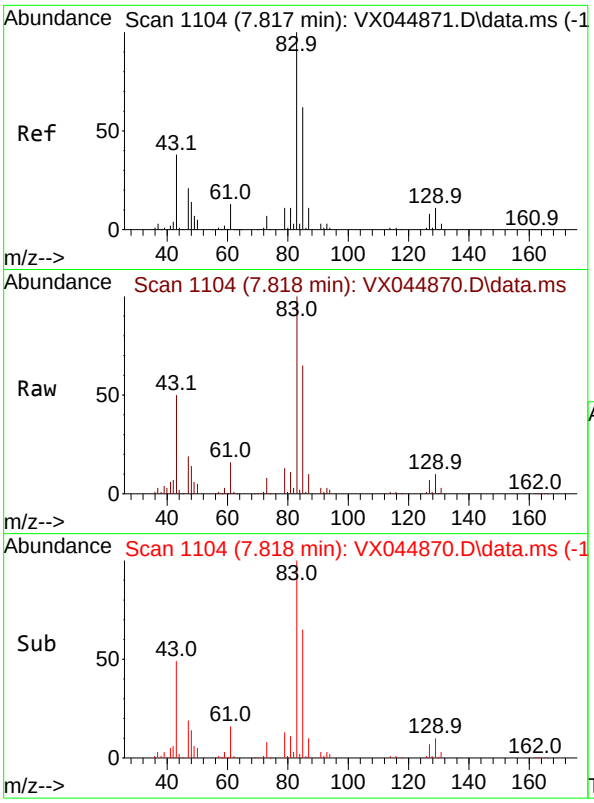


#46
Dibromomethane
Concen: 21.354 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 93 Resp: 25300

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.2	99.4
174	88.6	69.9	104.9

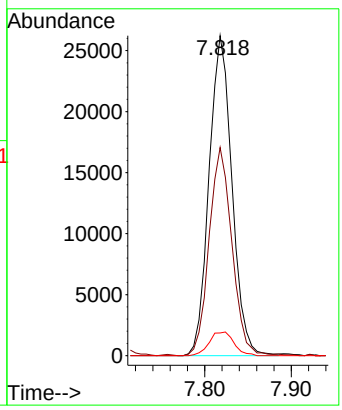




#47
Bromodichloromethane
Concen: 21.012 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 4820

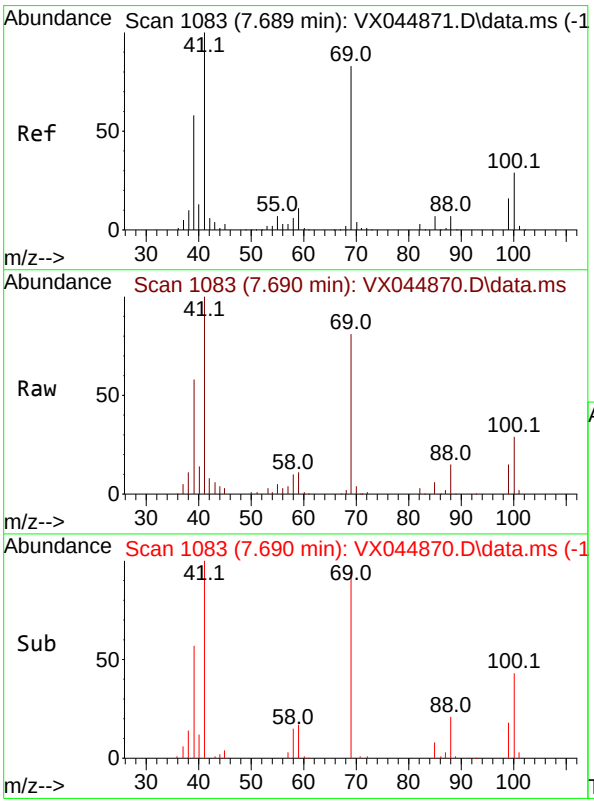
Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.0	75.0
127	7.1	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

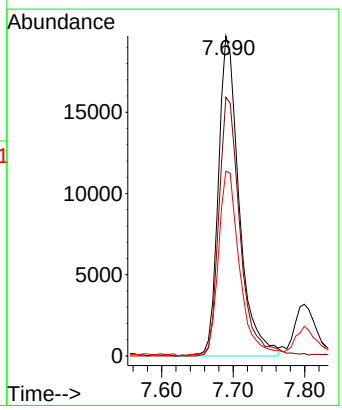
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

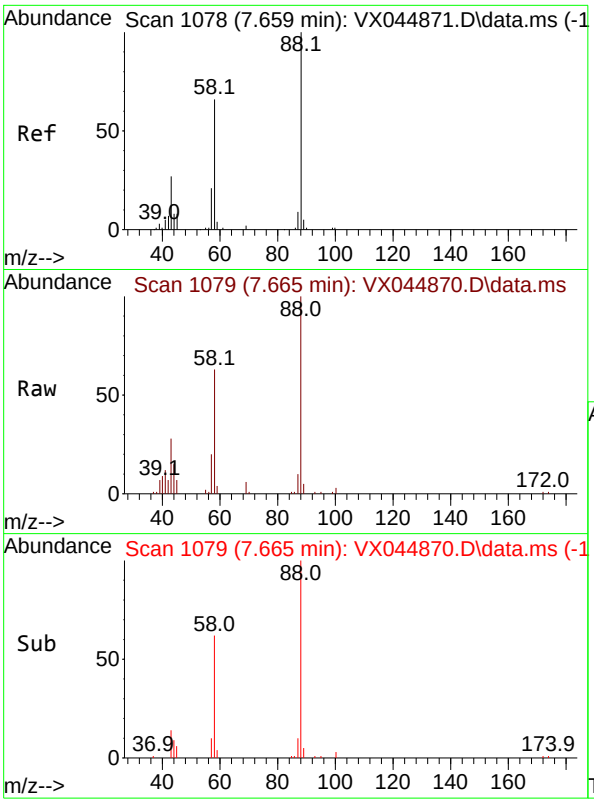


#48
Methyl methacrylate
Concen: 21.341 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 39747

Ion	Ratio	Lower	Upper
41	100		
69	82.5	65.8	98.8
39	58.2	46.4	69.6

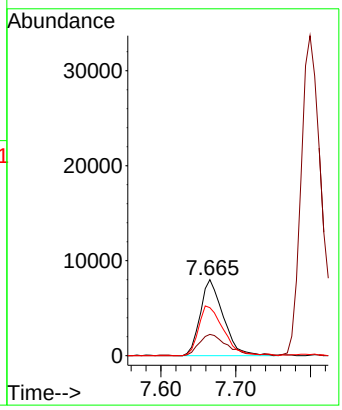




#49
1,4-Dioxane
Concen: 429.262 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 88 Resp: 1715

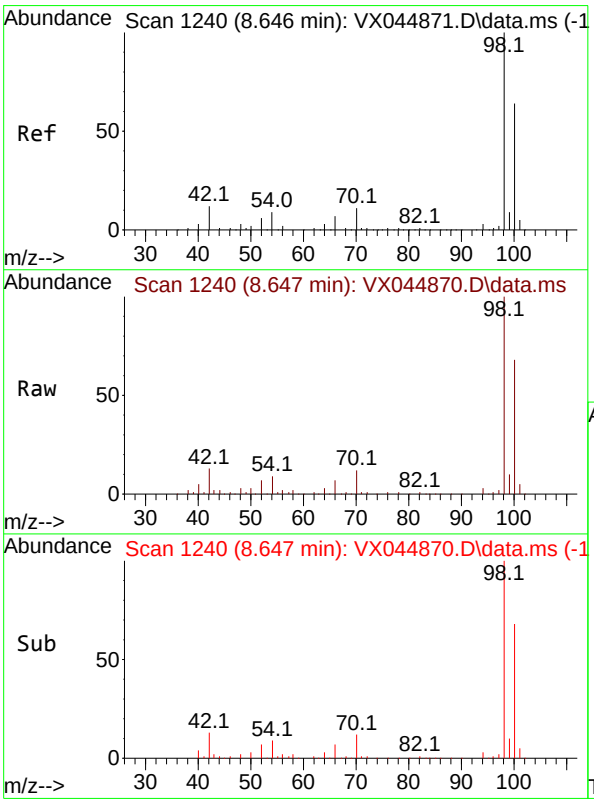
Ion	Ratio	Lower	Upper
88	100		
43	34.3	26.6	39.8
58	69.3	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

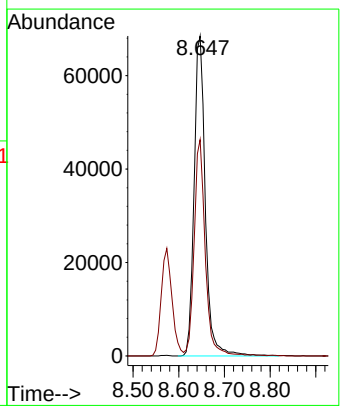
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

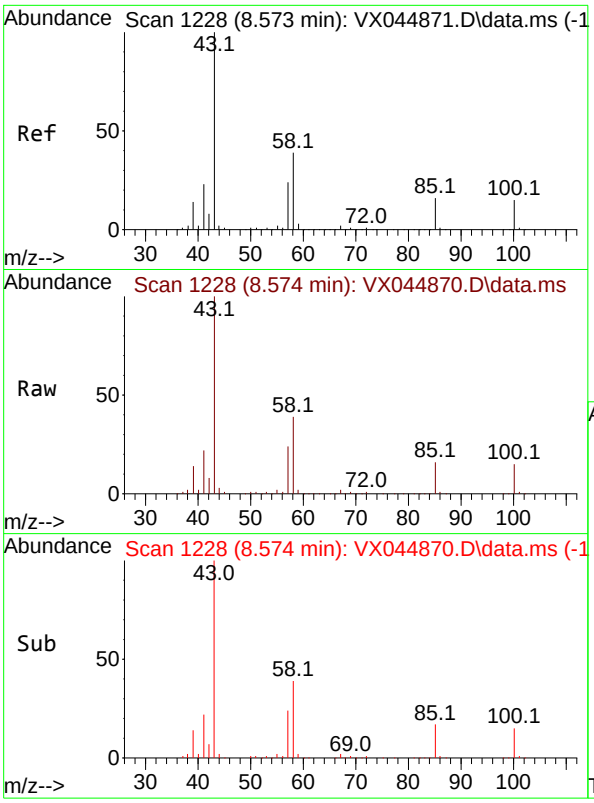


#50
Toluene-d8
Concen: 20.321 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 98 Resp: 117127

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.7	79.1

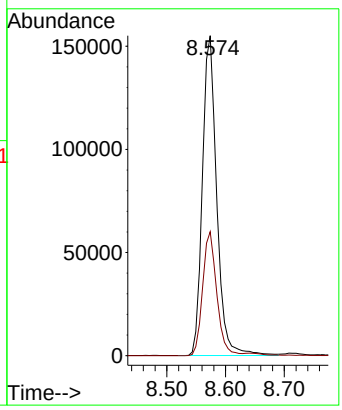




#51
4-Methyl-2-Pentanone
Concen: 109.684 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 26339

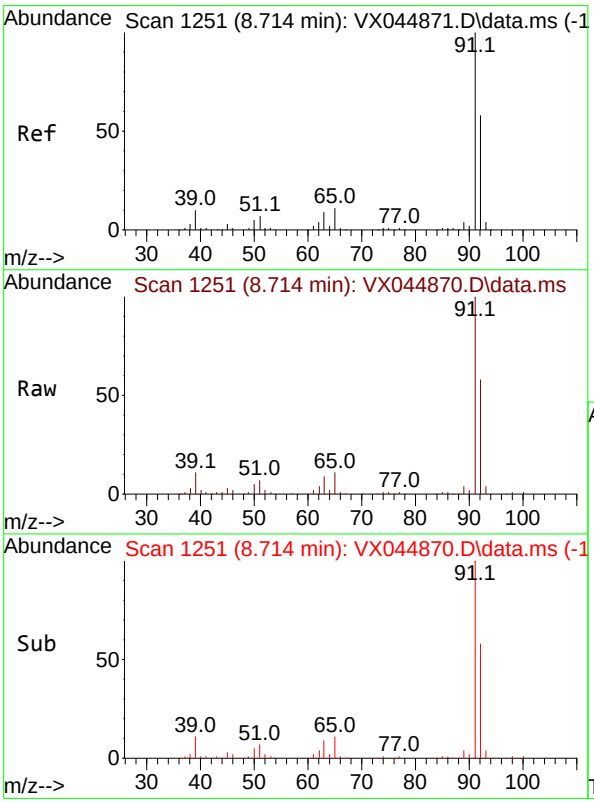
Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

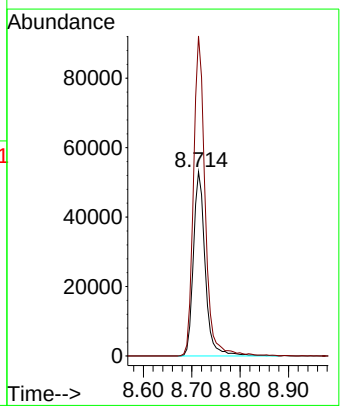
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

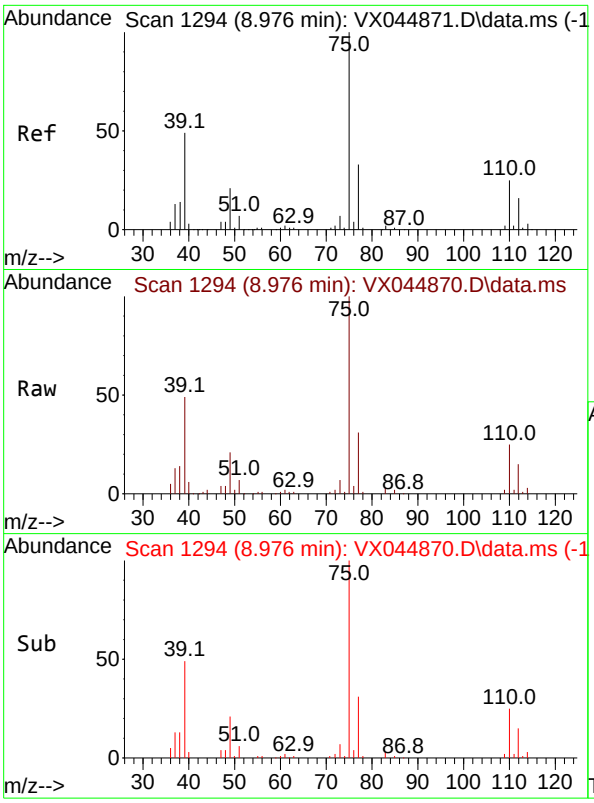


#52
Toluene
Concen: 21.940 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 92 Resp: 89726

Ion	Ratio	Lower	Upper
92	100		
91	171.0	137.4	206.2

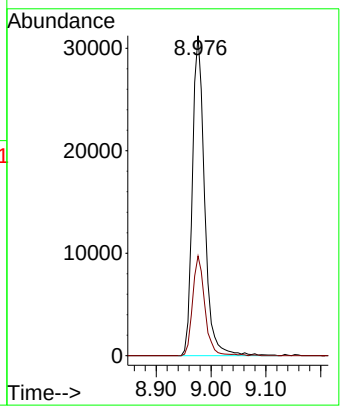




#53
t-1,3-Dichloropropene
Concen: 20.940 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 4861

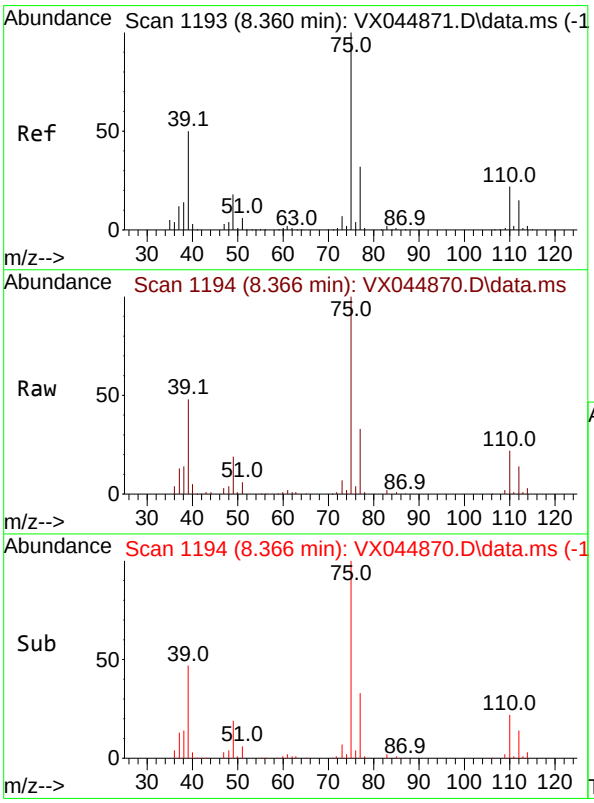
Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

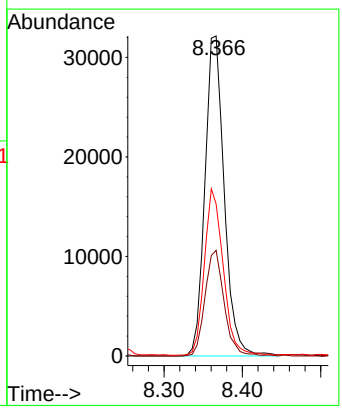
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

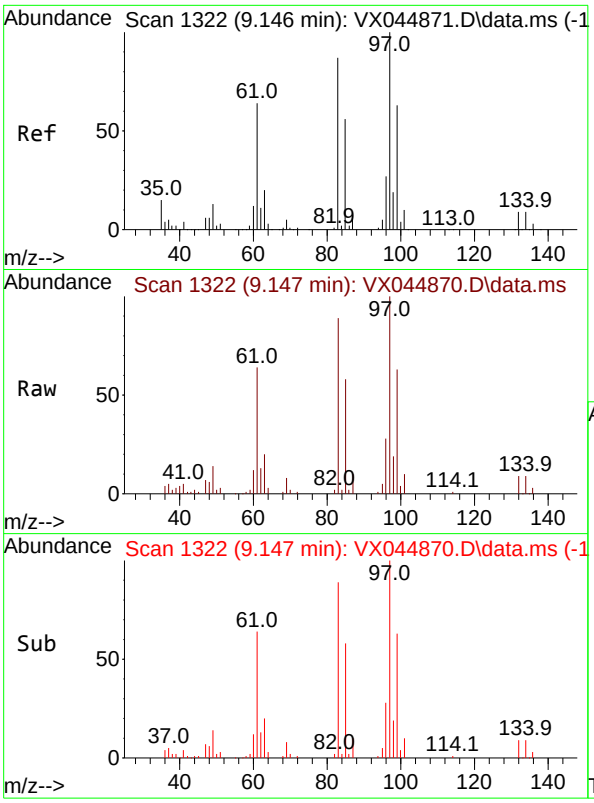


#54
cis-1,3-Dichloropropene
Concen: 21.259 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 55026

Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.3	37.9
39	47.3	40.0	60.0

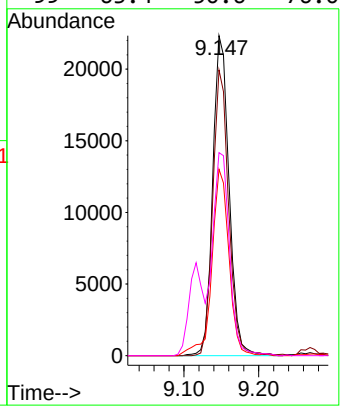




#55
1,1,2-Trichloroethane
Concen: 21.582 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 97 Resp: 3393

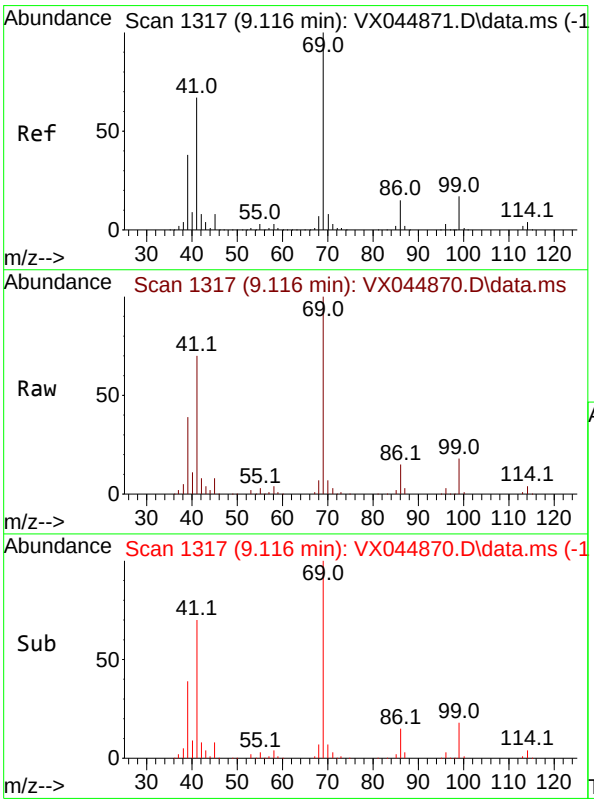
Ion	Ratio	Lower	Upper
97	100		
83	89.3	69.8	104.6
85	58.3	44.8	67.2
99	63.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

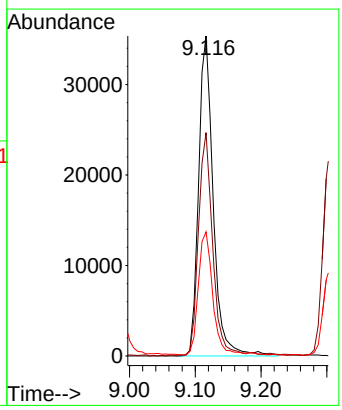
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

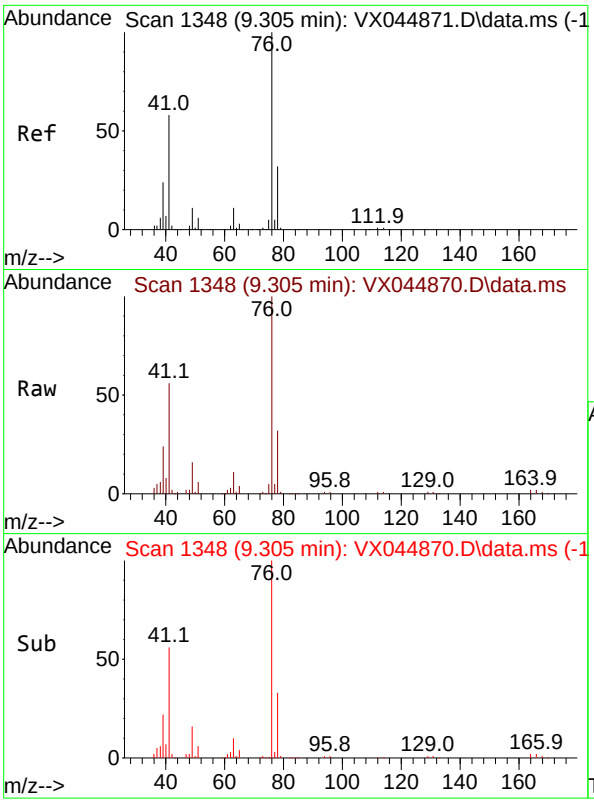


#56
Ethyl methacrylate
Concen: 21.533 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 69 Resp: 54674

Ion	Ratio	Lower	Upper
69	100		
41	68.4	55.2	82.8
39	37.4	30.8	46.2

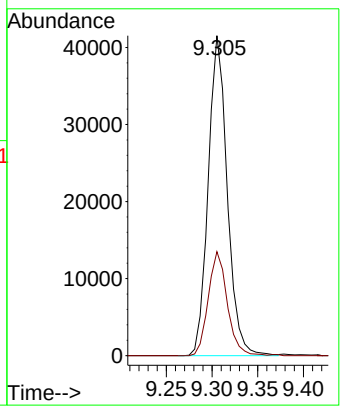




#57
1,3-Dichloropropane
Concen: 21.841 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 76 Resp: 6007

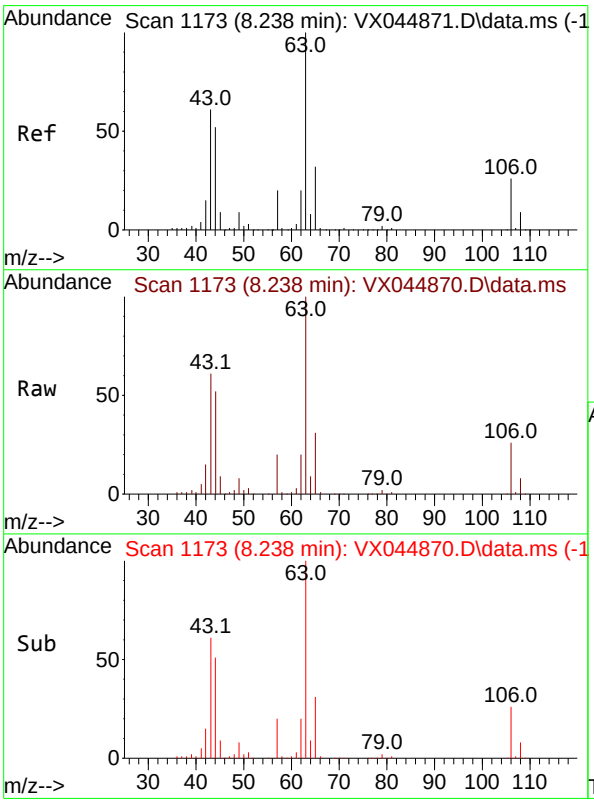
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

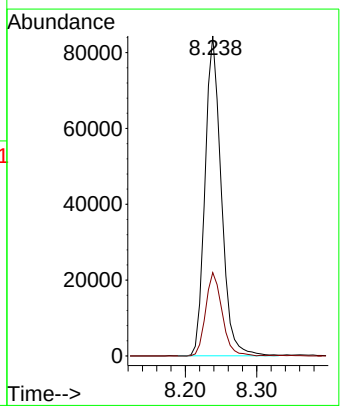
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

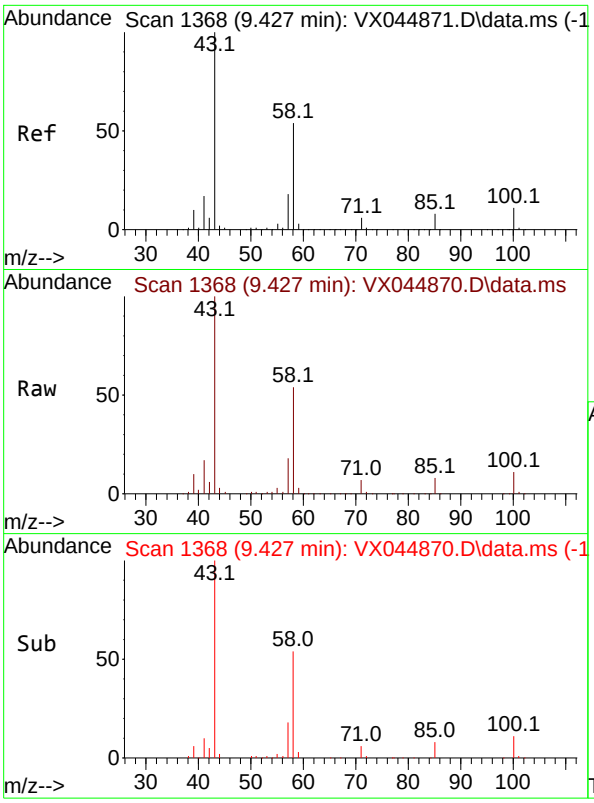


#58
2-Chloroethyl Vinyl ether
Concen: 106.736 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 133072

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9





#59
2-Hexanone
Concen: 110.072 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

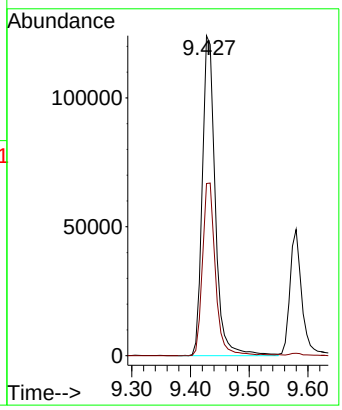
Tgt Ion: 43 Resp: 19044

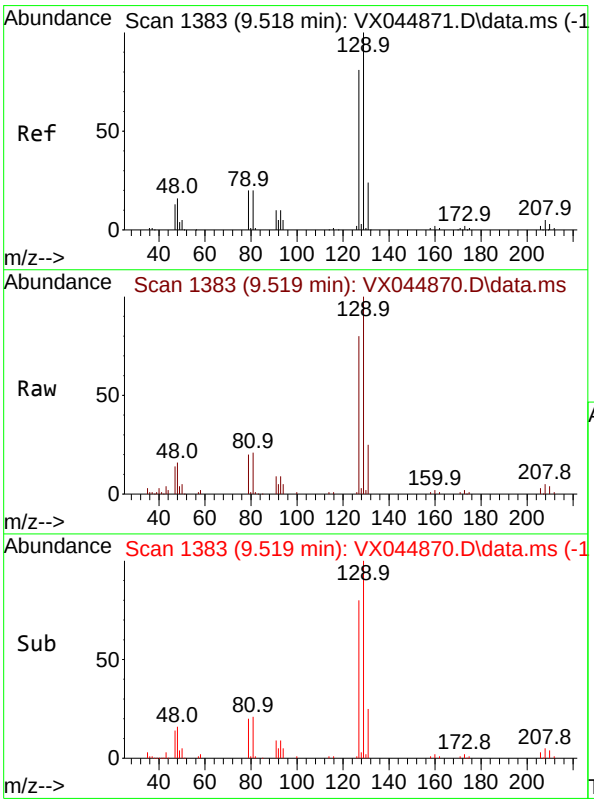
Ion	Ratio	Lower	Upper
43	100		
58	53.5	27.5	82.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

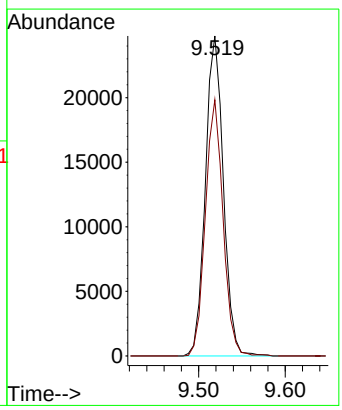


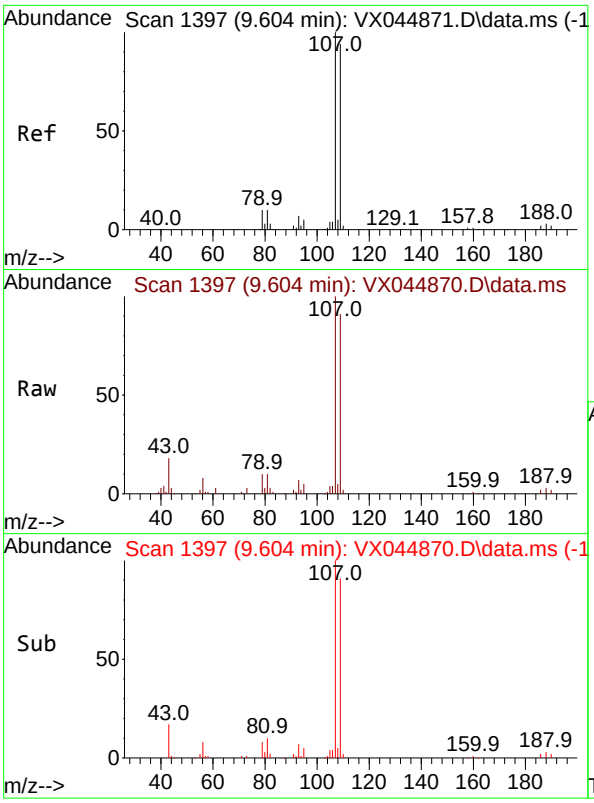


#60
Dibromochloromethane
Concen: 21.237 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:129 Resp: 35706

Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.1	117.3

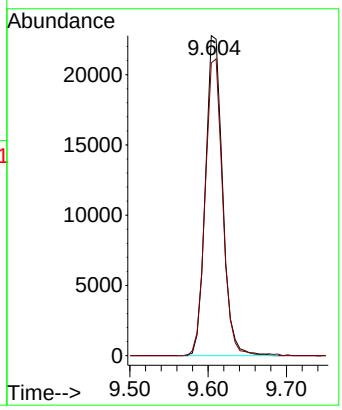




#61
1,2-Dibromoethane
Concen: 21.628 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:107 Resp: 3446

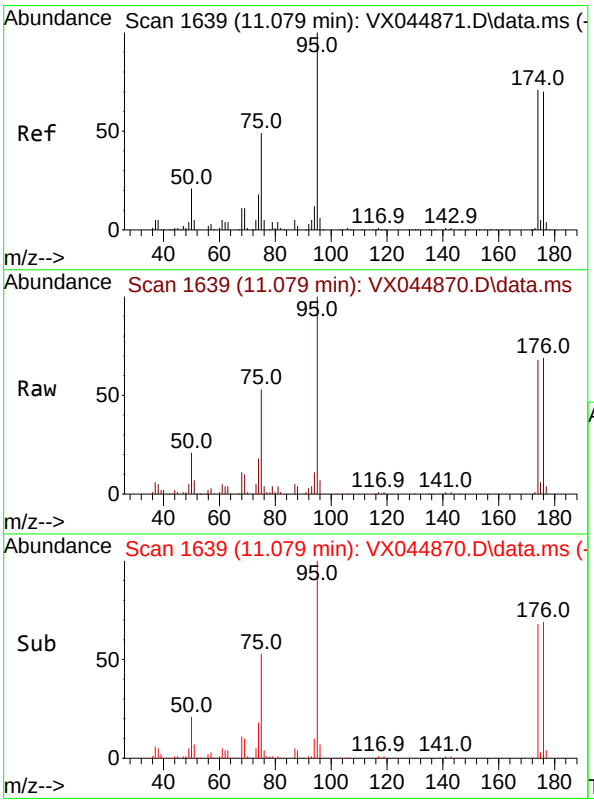
Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

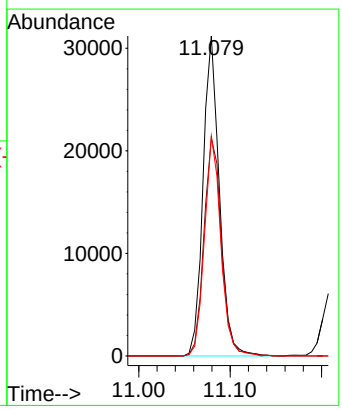
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

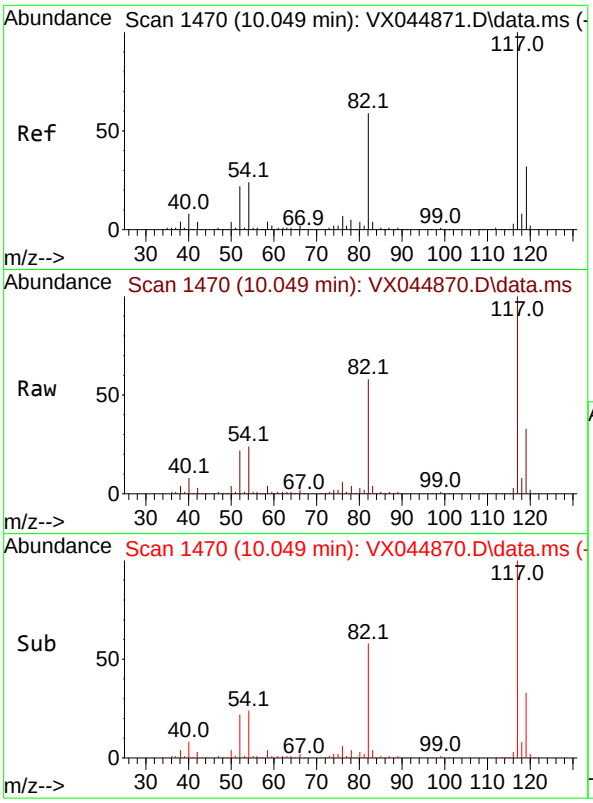


#62
4-Bromofluorobenzene
Concen: 19.800 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 95 Resp: 38475

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	142.6
176	69.0	0.0	141.6

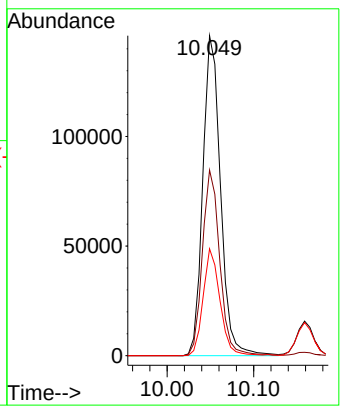




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 20766

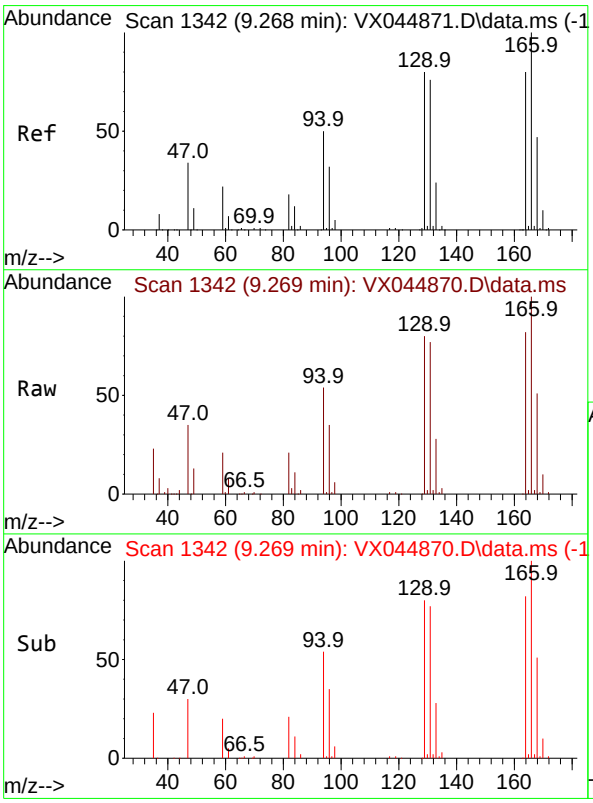
Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.5	71.3
119	33.4	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

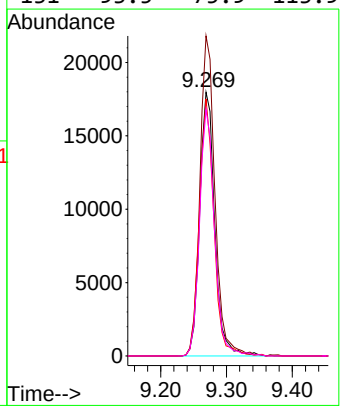
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

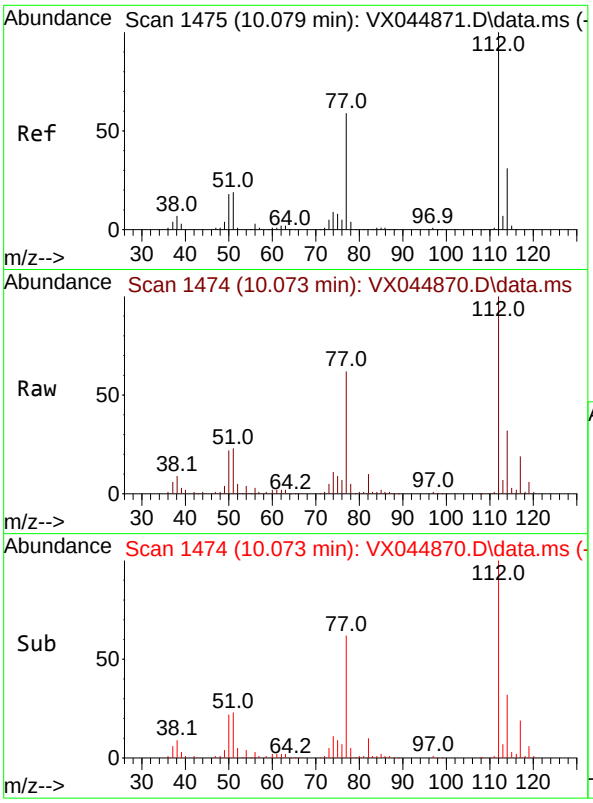


#64
Tetrachloroethene
Concen: 21.776 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:164 Resp: 28519

Ion	Ratio	Lower	Upper
164	100		
166	121.4	100.4	150.6
129	97.6	79.9	119.9
131	93.5	75.9	113.9

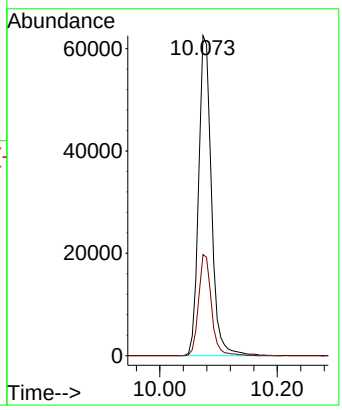




#65
Chlorobenzene
Concen: 21.230 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:112 Resp: 9469

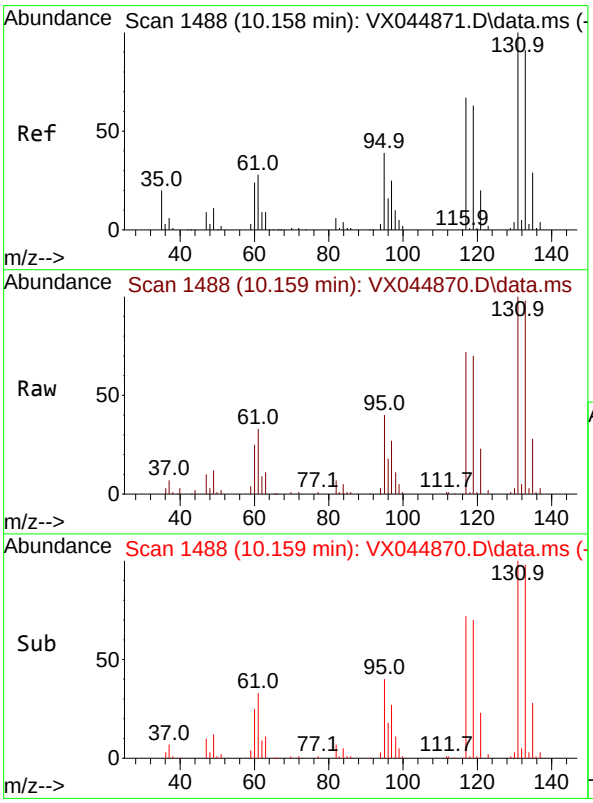
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

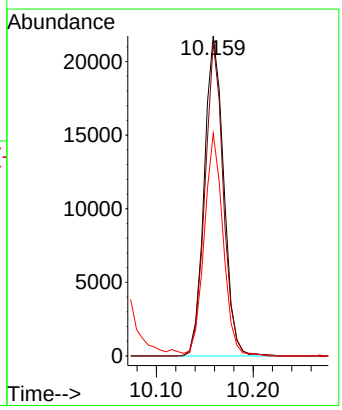
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

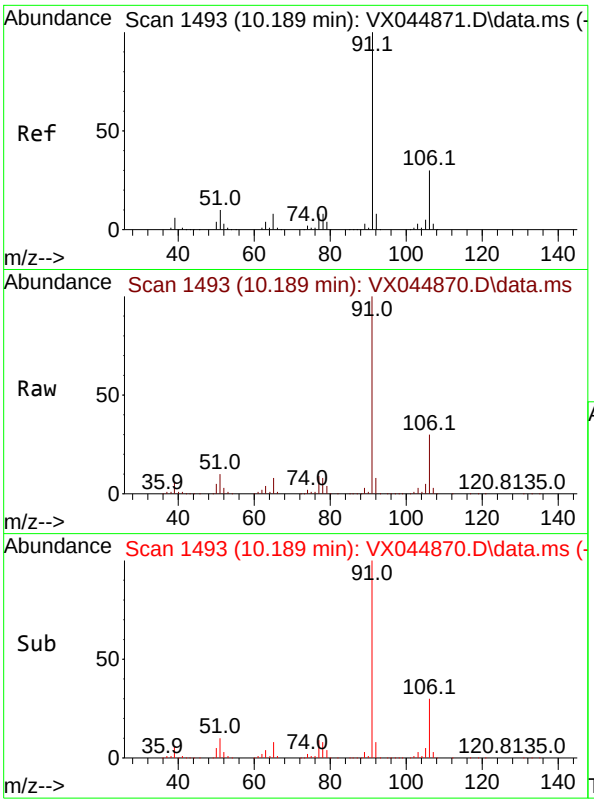


#66
1,1,1,2-Tetrachloroethane
Concen: 21.136 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:131 Resp: 30344

Ion	Ratio	Lower	Upper
131	100		
133	92.9	47.1	141.3
119	67.4	33.6	100.6

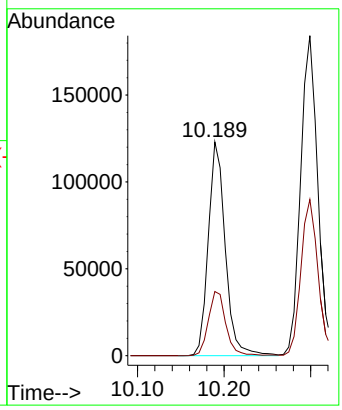




#67
Ethyl Benzene
Concen: 21.327 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 16786

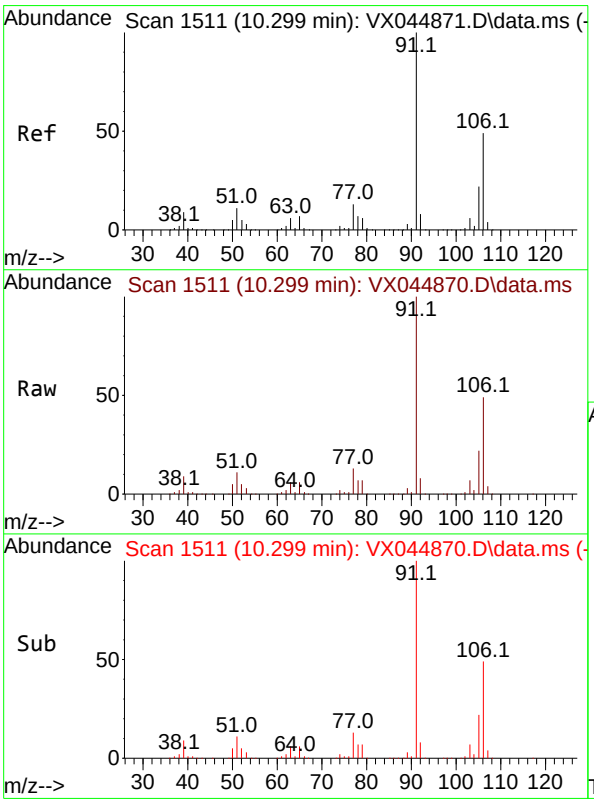
Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

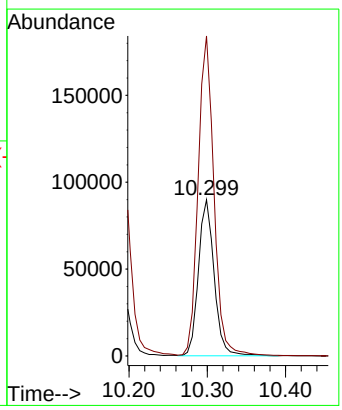
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

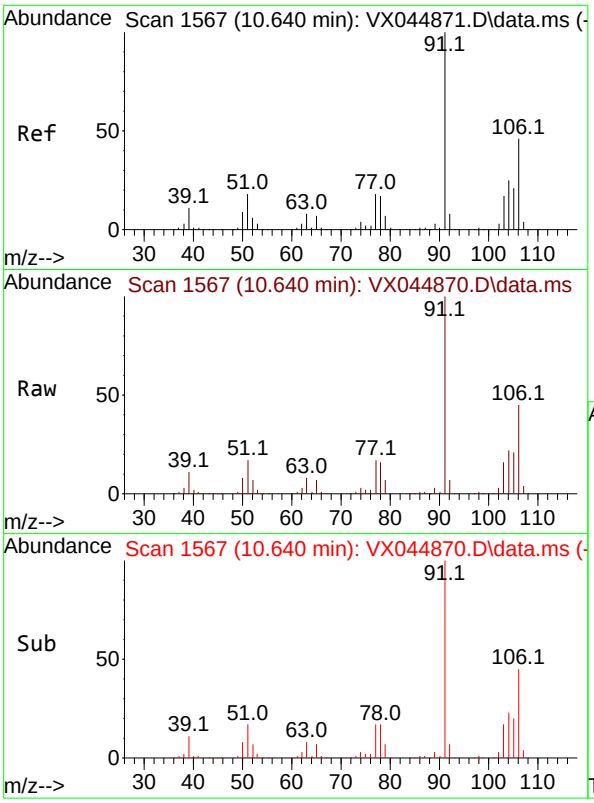


#68
m/p-Xylenes
Concen: 43.144 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:106 Resp: 125271

Ion	Ratio	Lower	Upper
106	100		
91	206.3	164.3	246.5

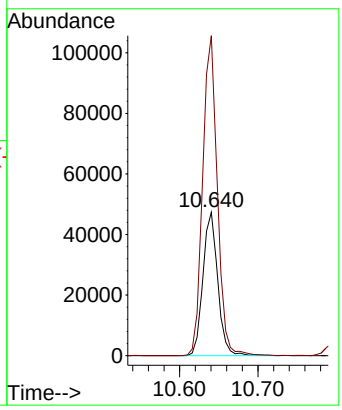




#69
o-Xylene
Concen: 21.310 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:106 Resp: 6208

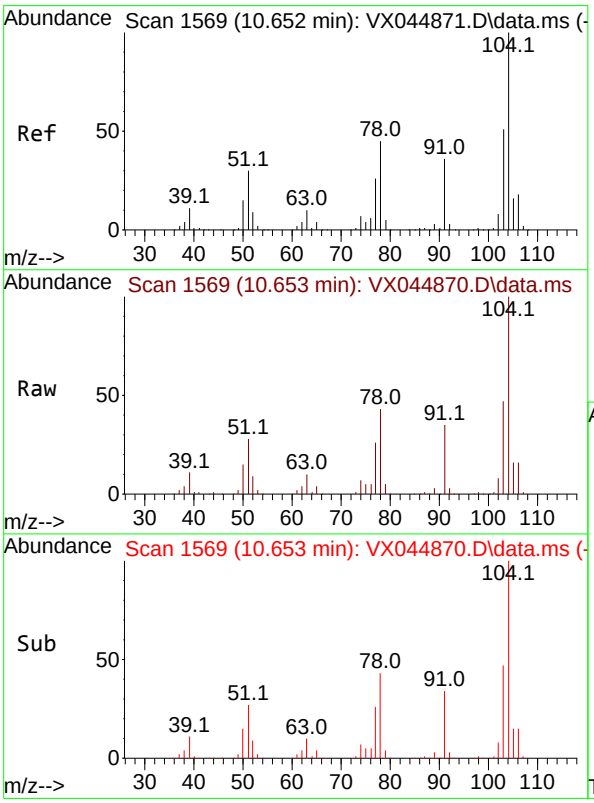
Ion	Ratio	Lower	Upper
106	100		
91	221.5	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

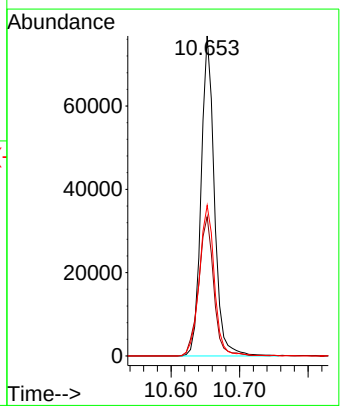
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

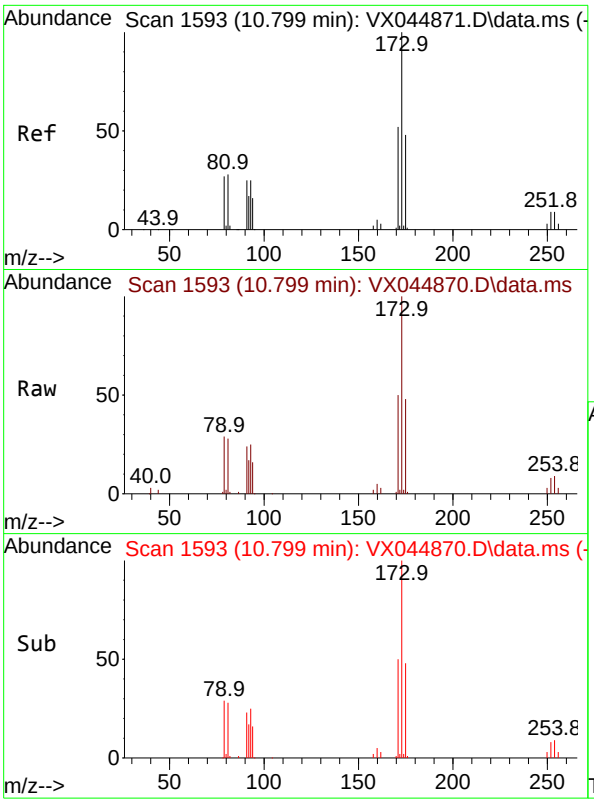


#70
Styrene
Concen: 22.101 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:104 Resp: 103740

Ion	Ratio	Lower	Upper
104	100		
78	49.2	40.5	60.7
103	53.5	43.6	65.4

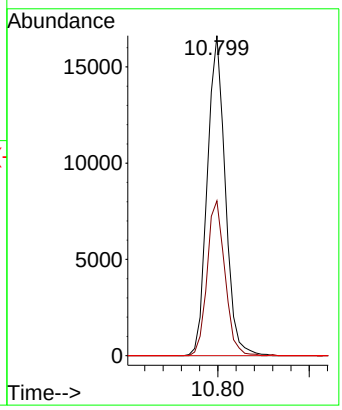




#71
Bromoform
Concen: 21.086 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:173 Resp: 2259

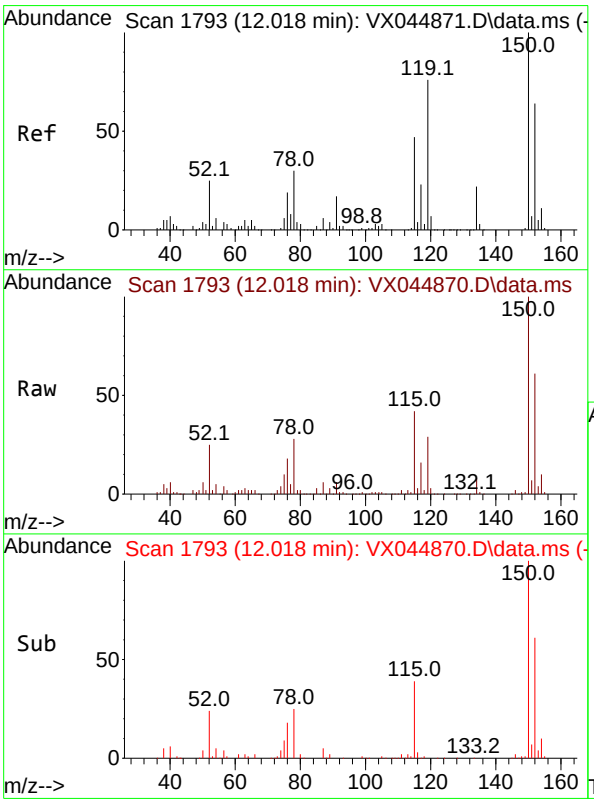
Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

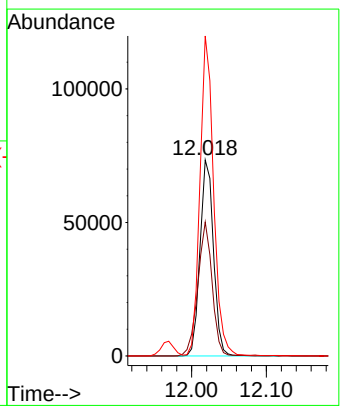
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

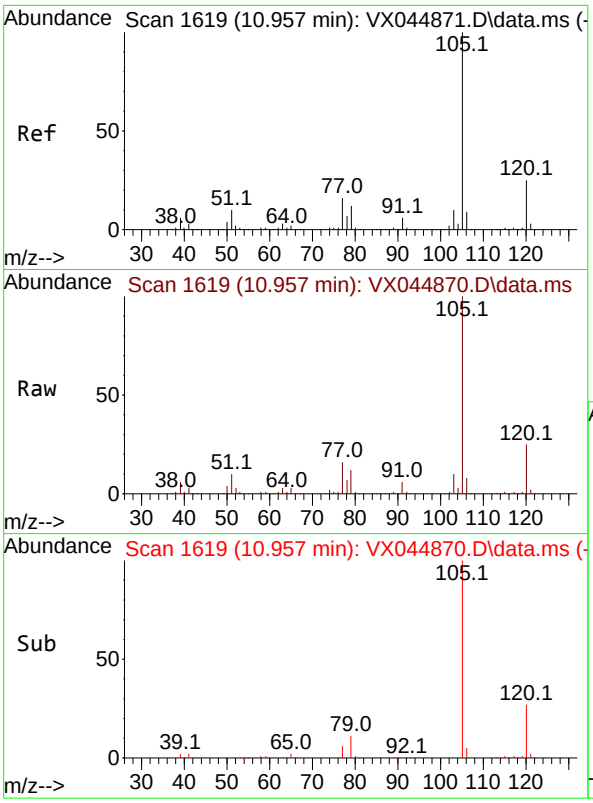


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:152 Resp: 92093

Ion	Ratio	Lower	Upper
152	100		
115	72.4	43.4	130.1
150	164.8	0.0	350.4

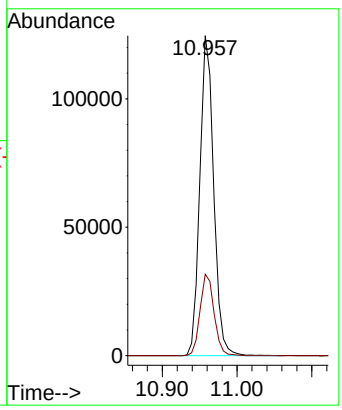




#73
Isopropylbenzene
Concen: 21.597 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 16014

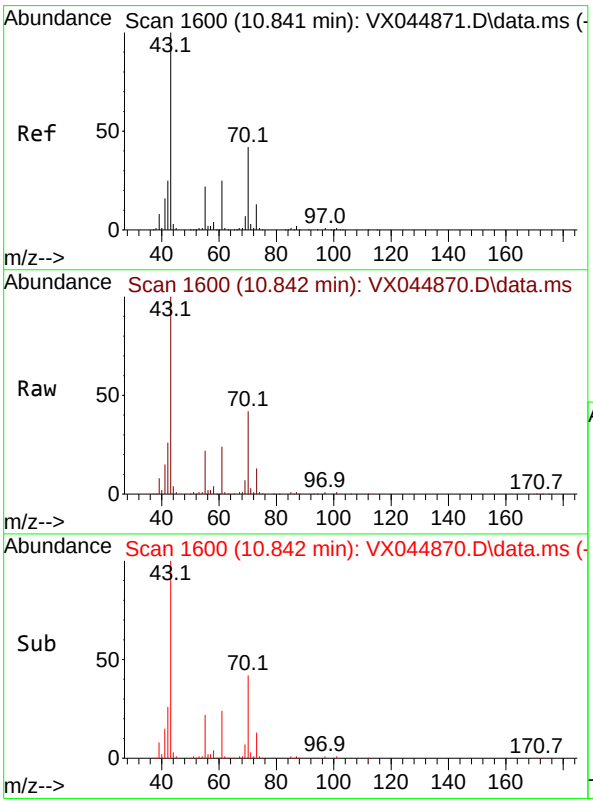
Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

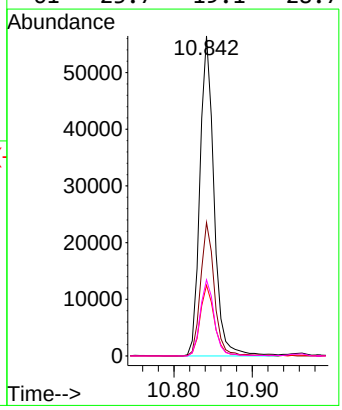
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

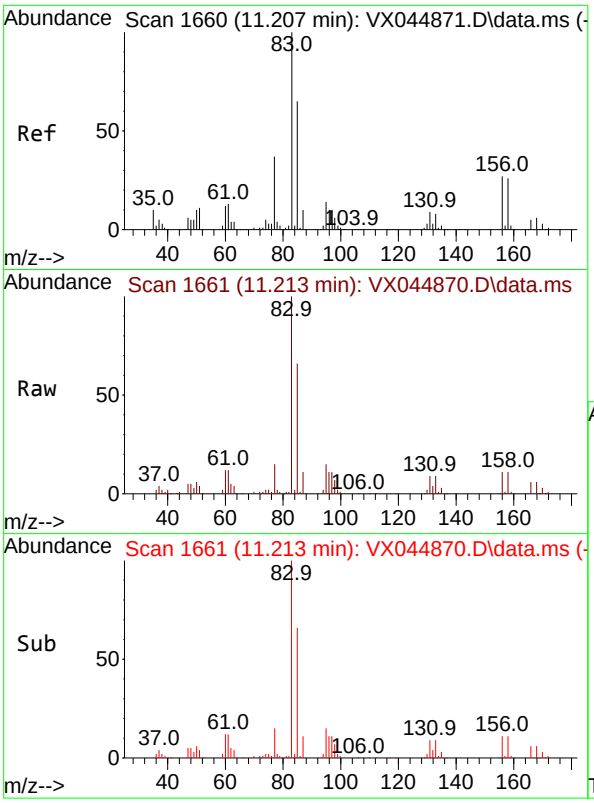


#74
N-amyl acetate
Concen: 21.023 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 70542

Ion	Ratio	Lower	Upper
43	100		
70	40.7	33.7	50.5
55	22.4	18.6	27.8
61	23.7	19.1	28.7

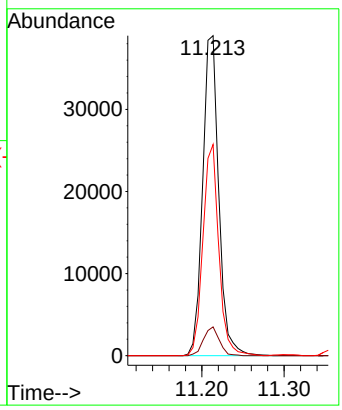




#75
1,1,2,2-Tetrachloroethane
Concen: 20.787 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 5296

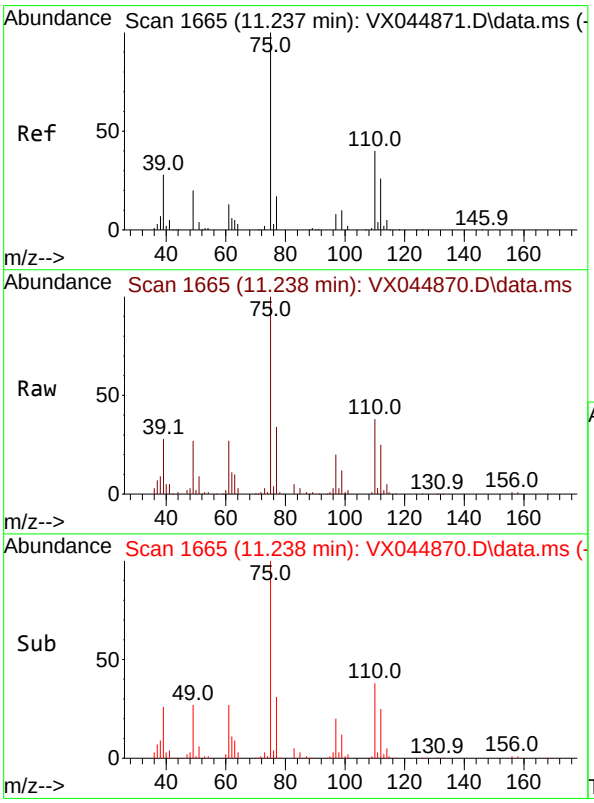
Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.5
85	65.1	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

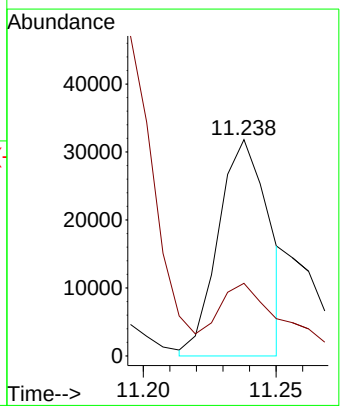
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

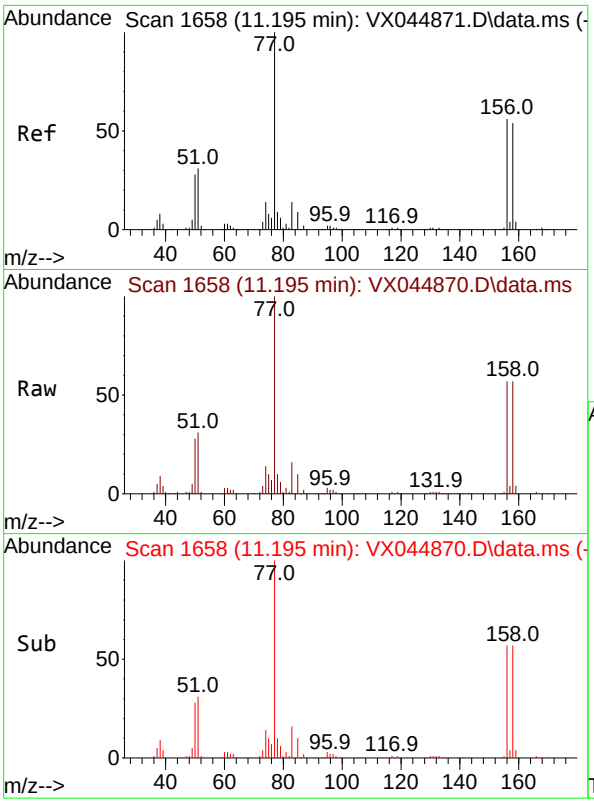


#76
1,2,3-Trichloropropane
Concen: 20.589 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 42040

Ion	Ratio	Lower	Upper
75	100		
77	43.7	21.9	65.7

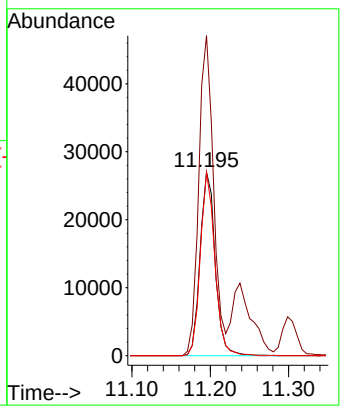




#77
Bromobenzene
Concen: 21.426 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:156 Resp: 3602

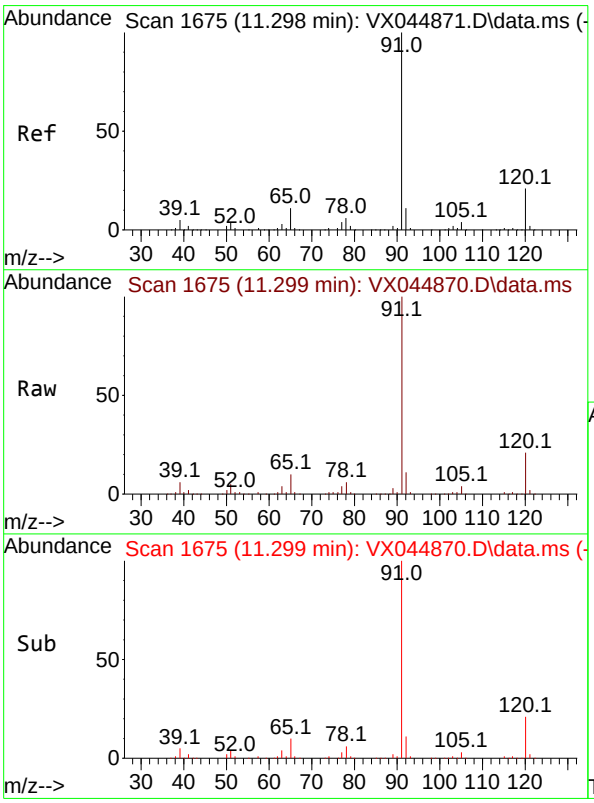
Ion	Ratio	Lower	Upper
156	100		
77	171.1	88.4	265.3
158	96.8	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

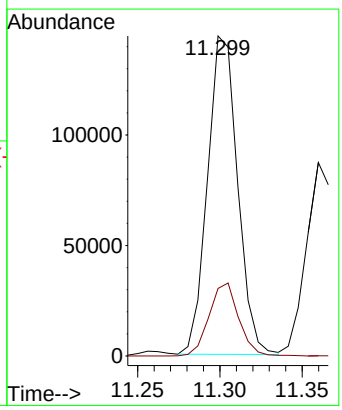
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

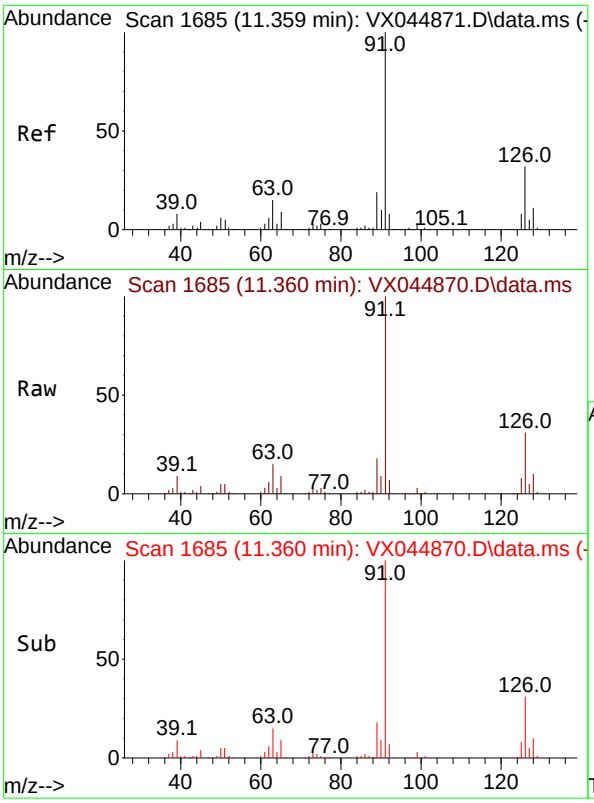


#78
n-propylbenzene
Concen: 21.406 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 183212

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3

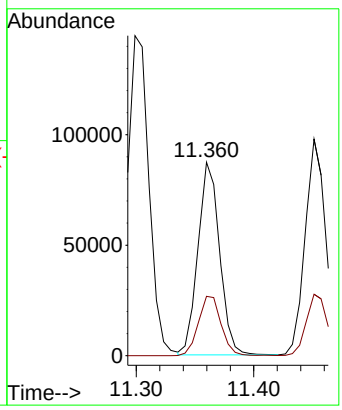




#79
2-Chlorotoluene
Concen: 21.250 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 11178

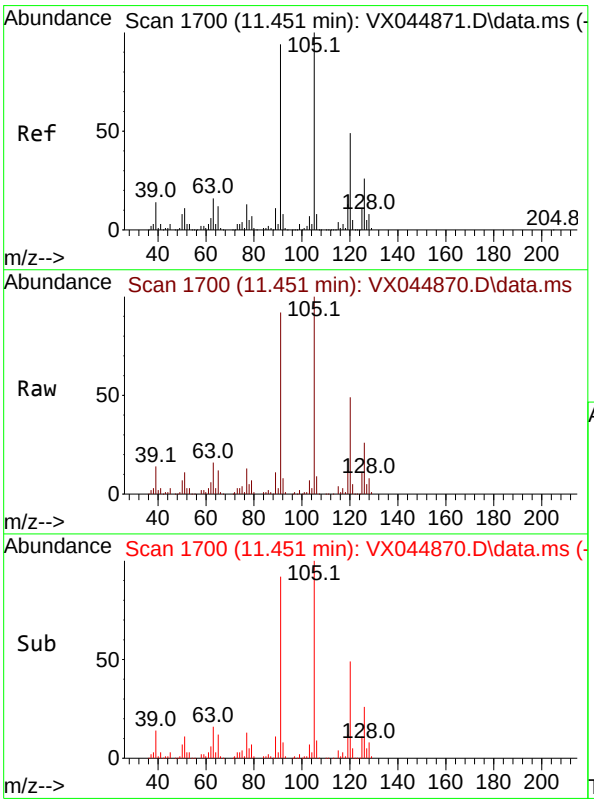
Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

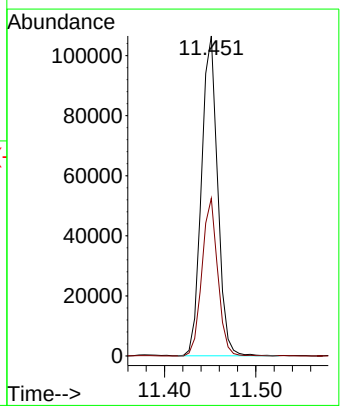
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

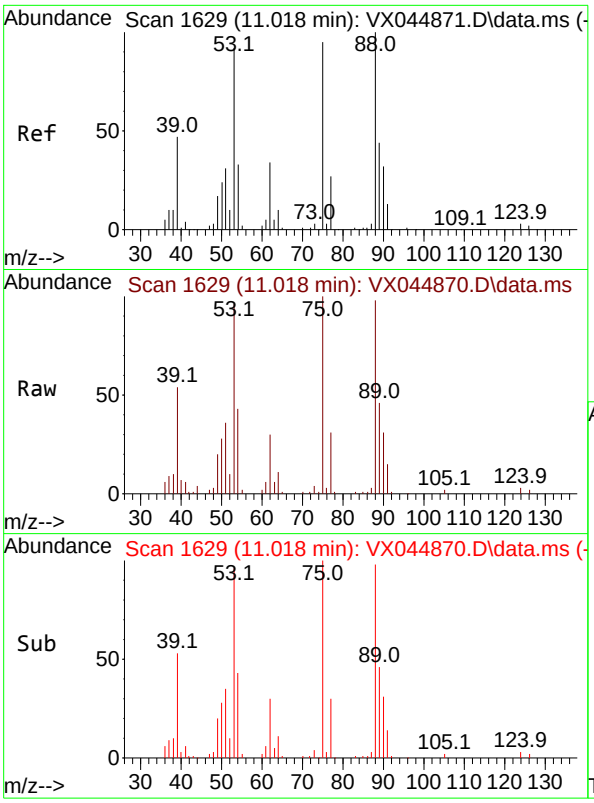


#80
1,3,5-Trimethylbenzene
Concen: 21.691 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 130526

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0

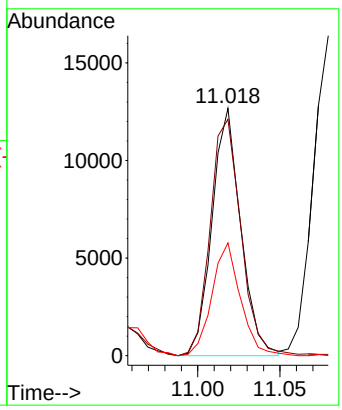




#81
trans-1,4-Dichloro-2-butene
Concen: 19.370 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 1537

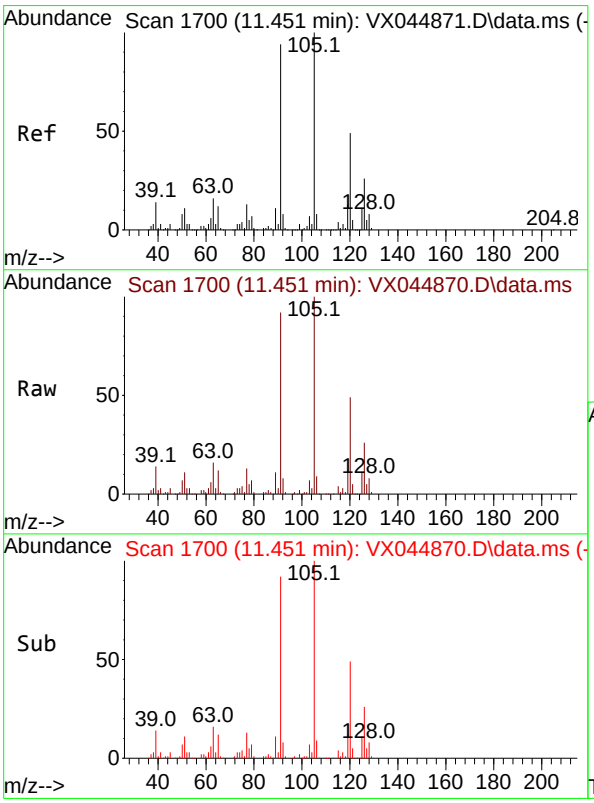
Ion	Ratio	Lower	Upper
75	100		
53	103.3	78.0	117.0
89	45.3	36.6	54.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

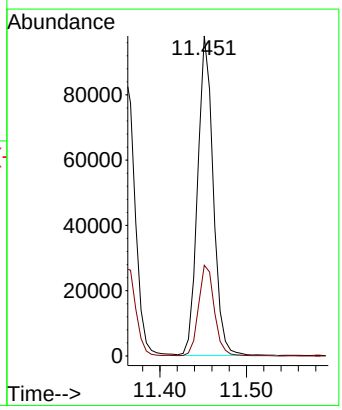
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

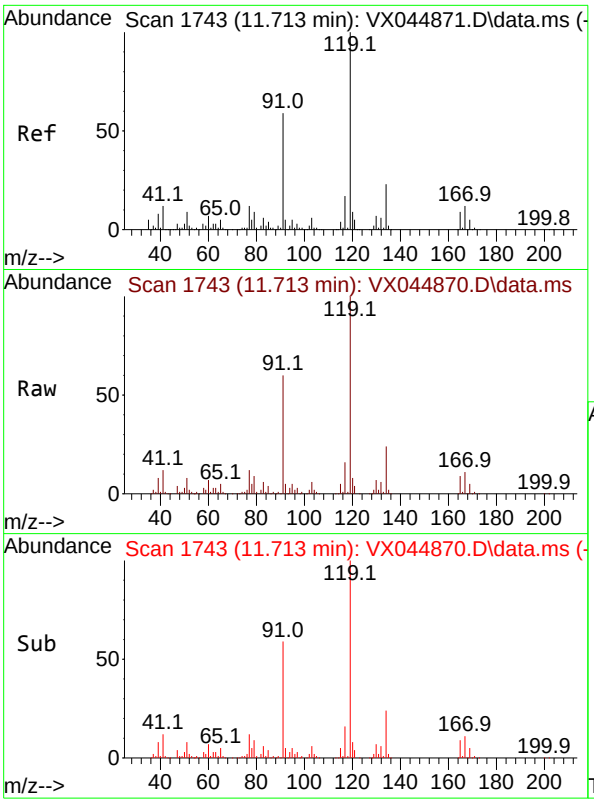


#82
4-Chlorotoluene
Concen: 21.016 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 122303

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

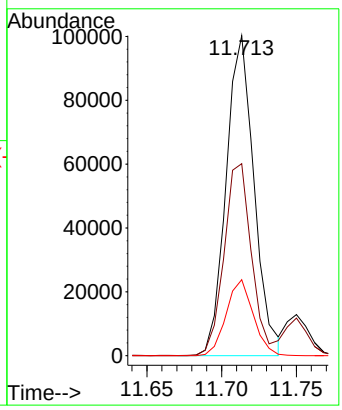




#83
tert-Butylbenzene
Concen: 21.414 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:119 Resp: 13035

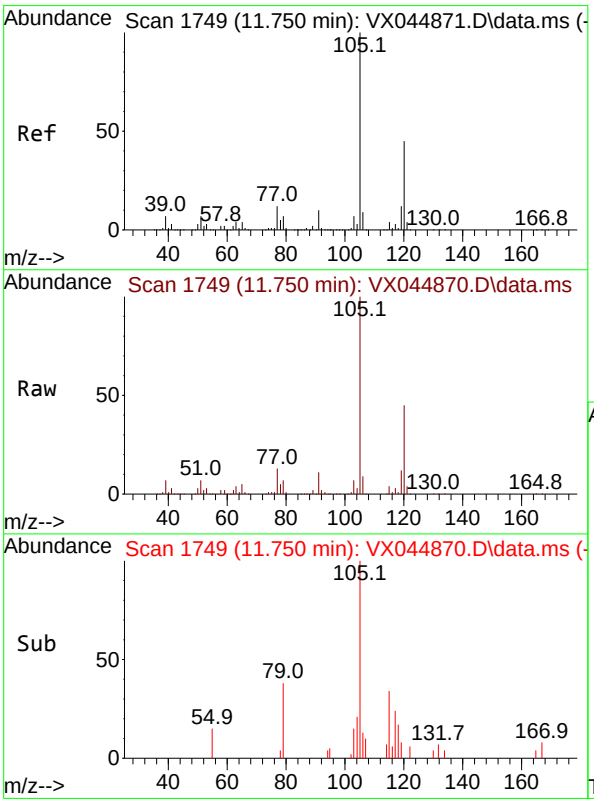
Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.1	87.4
134	23.1	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

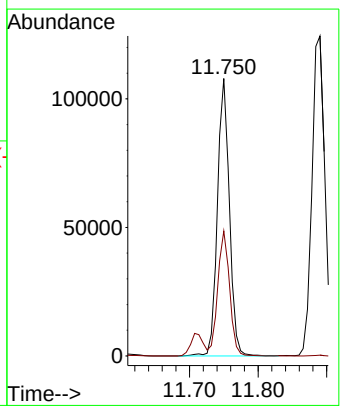
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

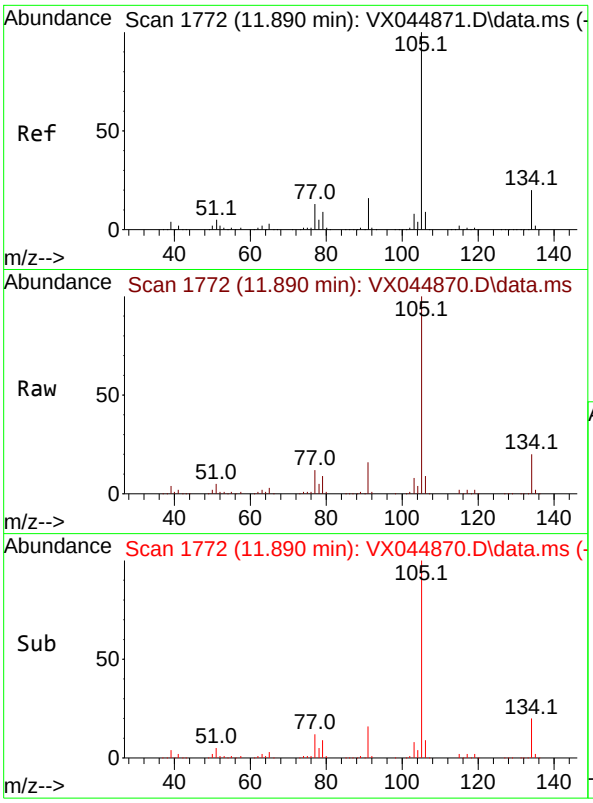


#84
1,2,4-Trimethylbenzene
Concen: 21.924 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 130211

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.0

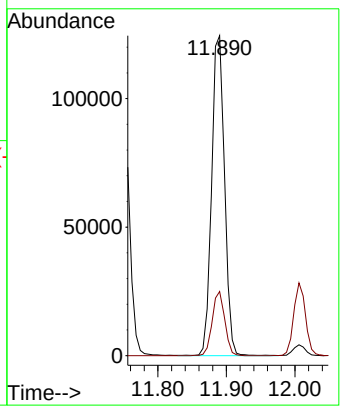




#85
sec-Butylbenzene
Concen: 21.607 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 16287

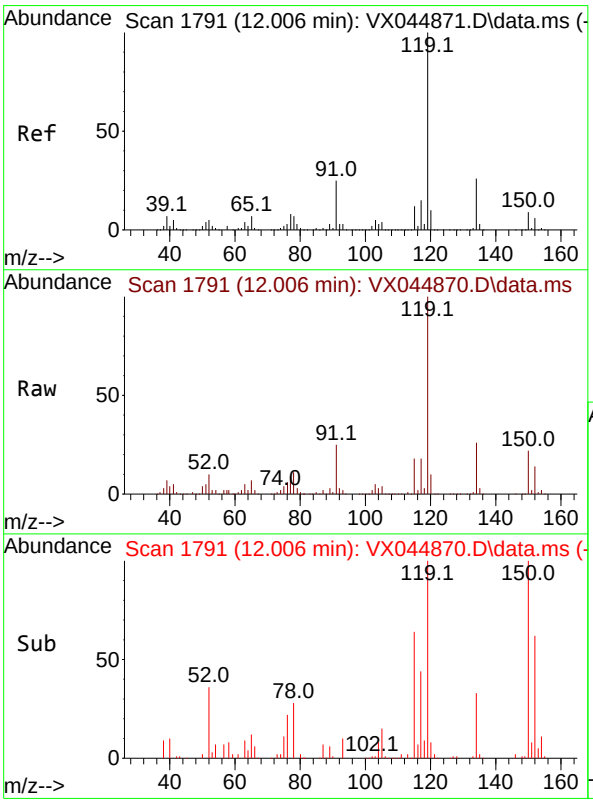
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

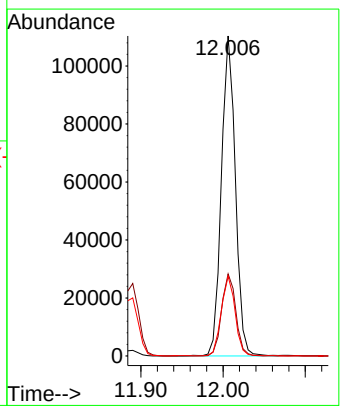
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

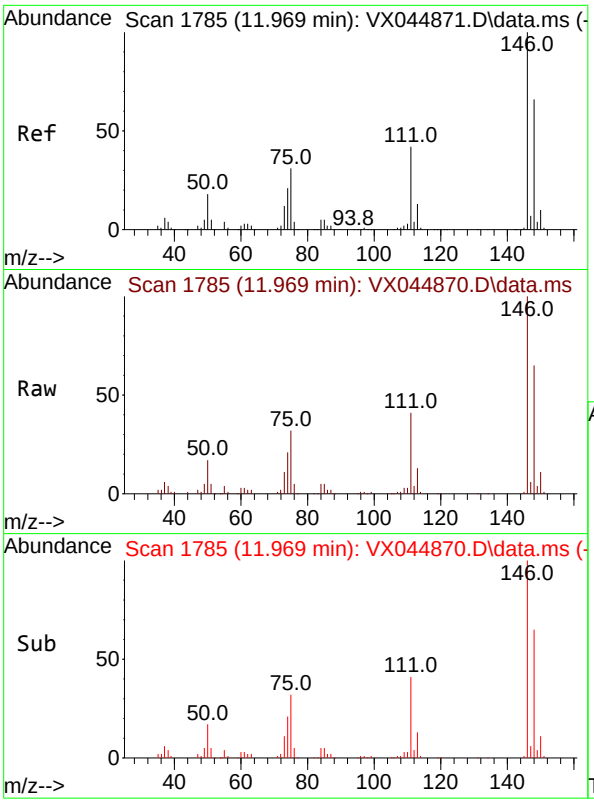


#86
p-Isopropyltoluene
Concen: 21.551 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:119 Resp: 130643

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	24.7	12.1	36.3

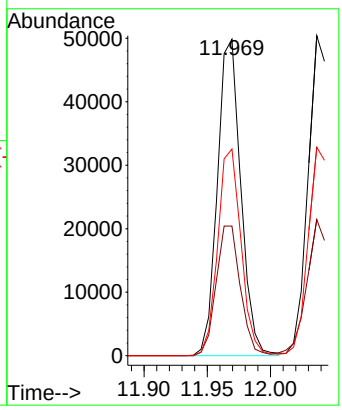




#87
1,3-Dichlorobenzene
Concen: 20.747 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:146 Resp: 6414

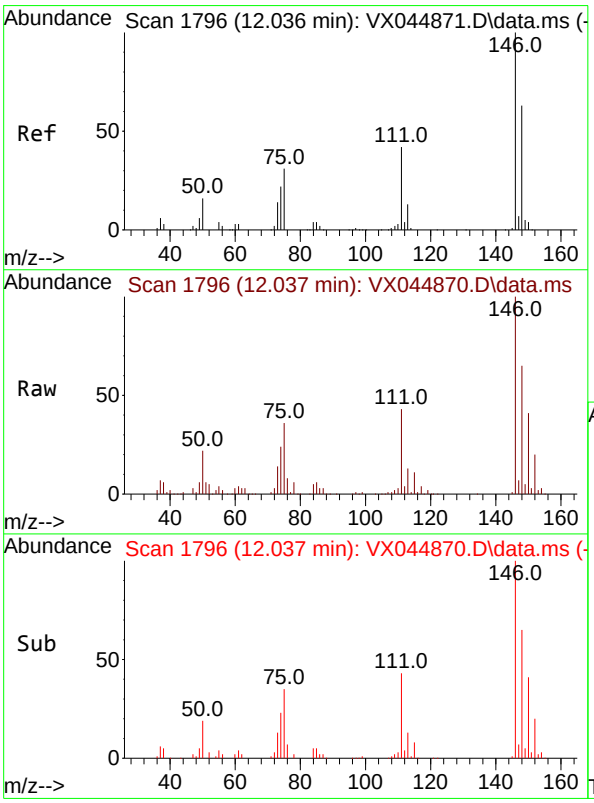
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.2	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

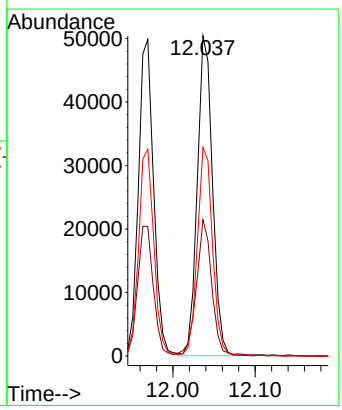
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

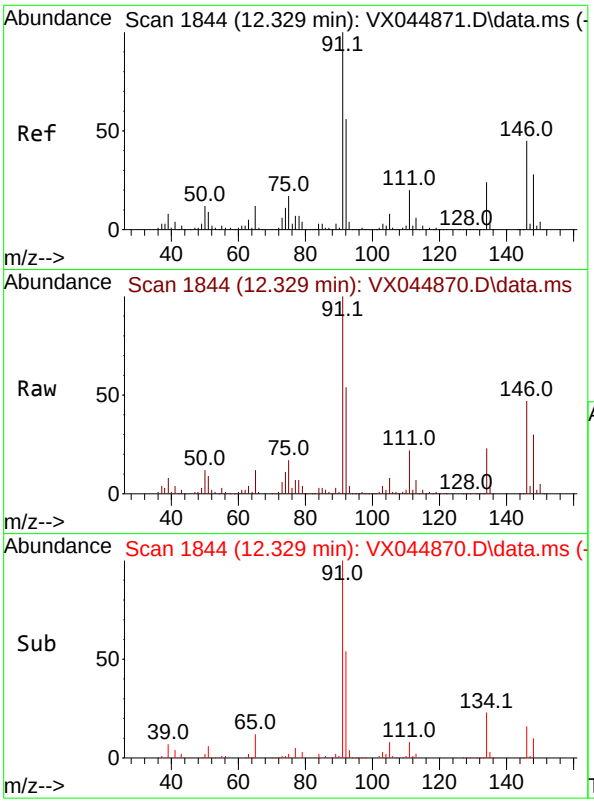


#88
1,4-Dichlorobenzene
Concen: 20.758 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:146 Resp: 64889

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.4	61.3
148	65.3	32.0	96.0

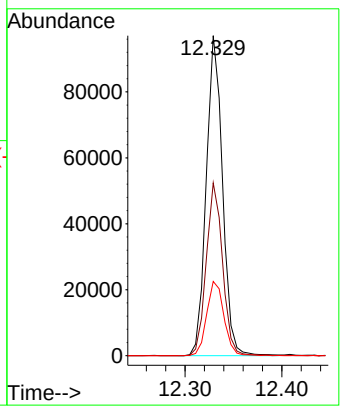




#89
n-Butylbenzene
Concen: 21.202 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 11370

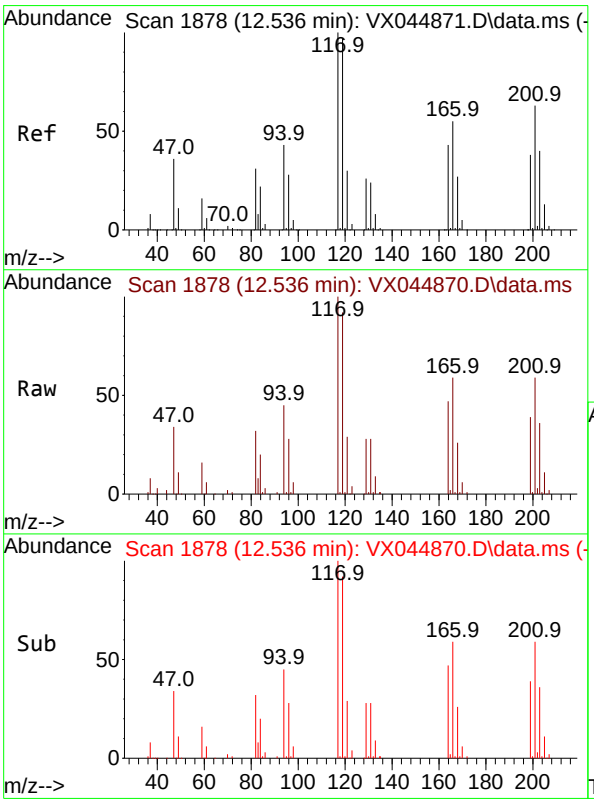
Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.2	81.6
134	24.7	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

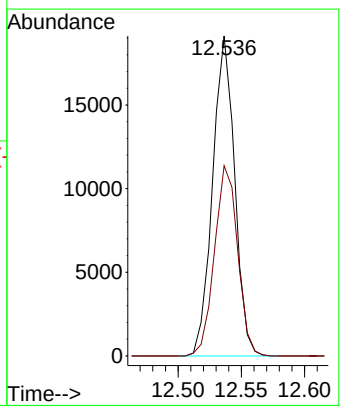
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

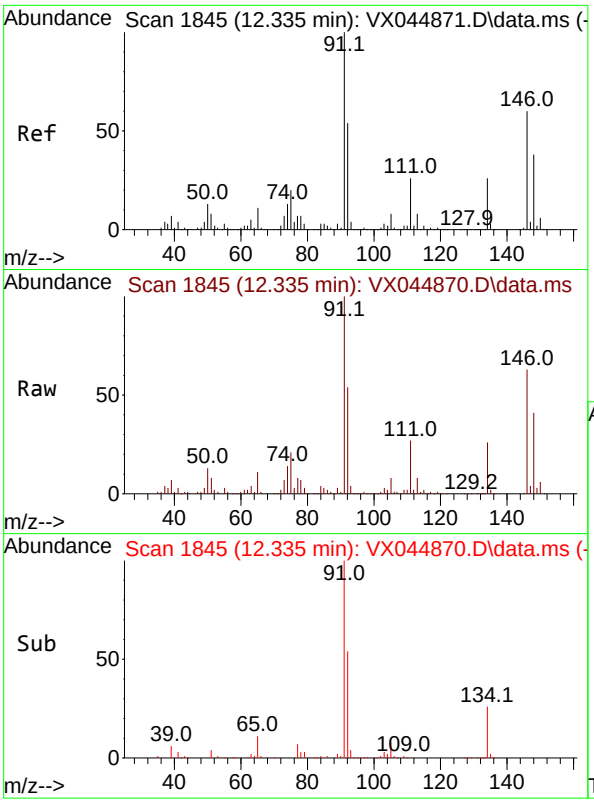


#90
Hexachloroethane
Concen: 20.398 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 23153

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.5	97.5

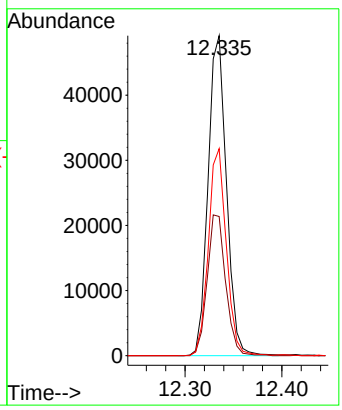




#91
1,2-Dichlorobenzene
Concen: 21.373 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:146 Resp: 6494

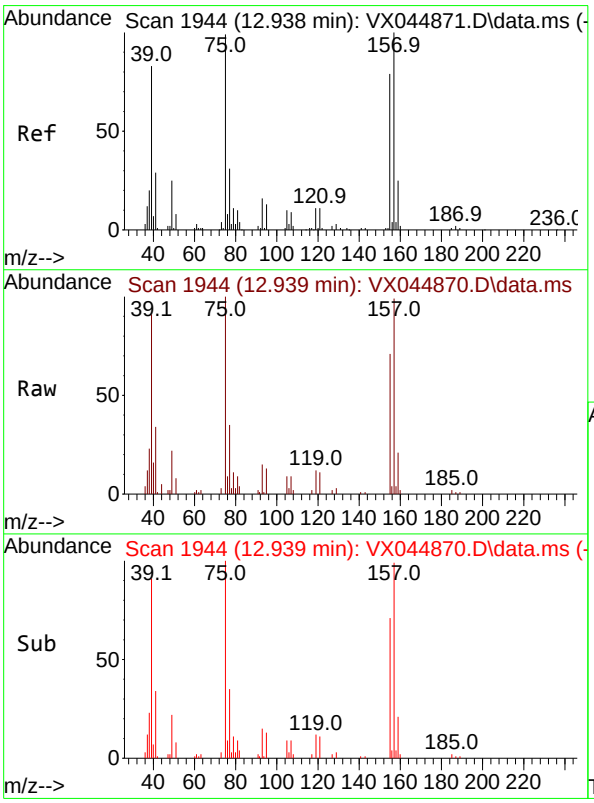
Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.8	65.4
148	63.3	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

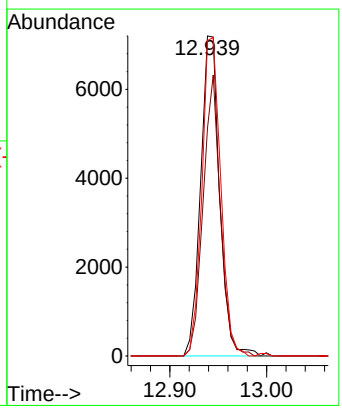
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

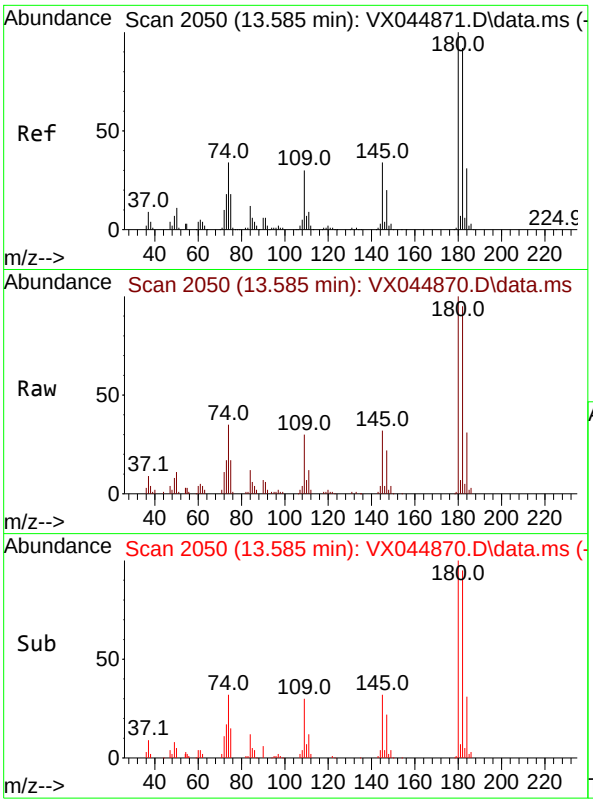


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.230 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 9873

Ion	Ratio	Lower	Upper
75	100		
155	79.8	40.5	121.4
157	98.3	51.4	154.3

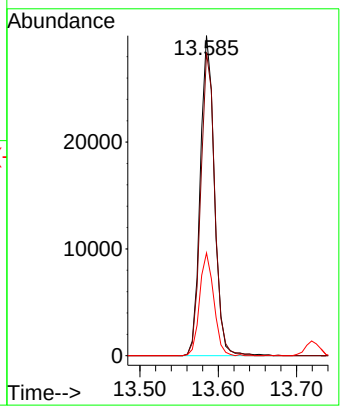




#93
1,2,4-Trichlorobenzene
Concen: 20.292 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:180 Resp: 3730

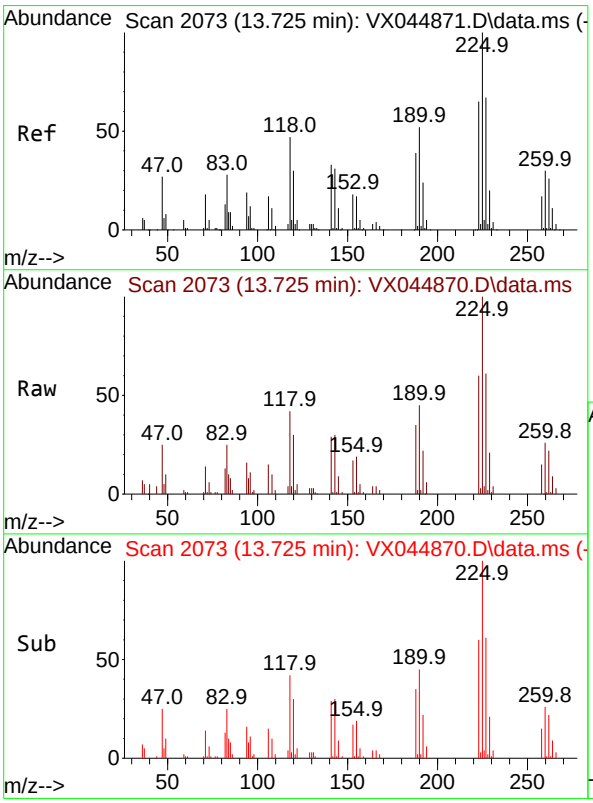
Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.6	142.8
145	32.4	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

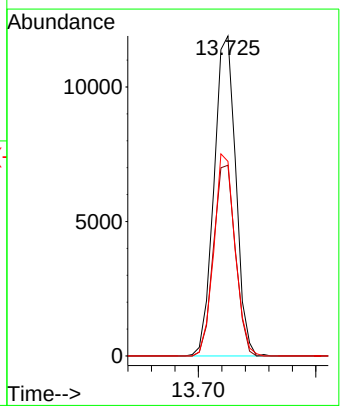
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

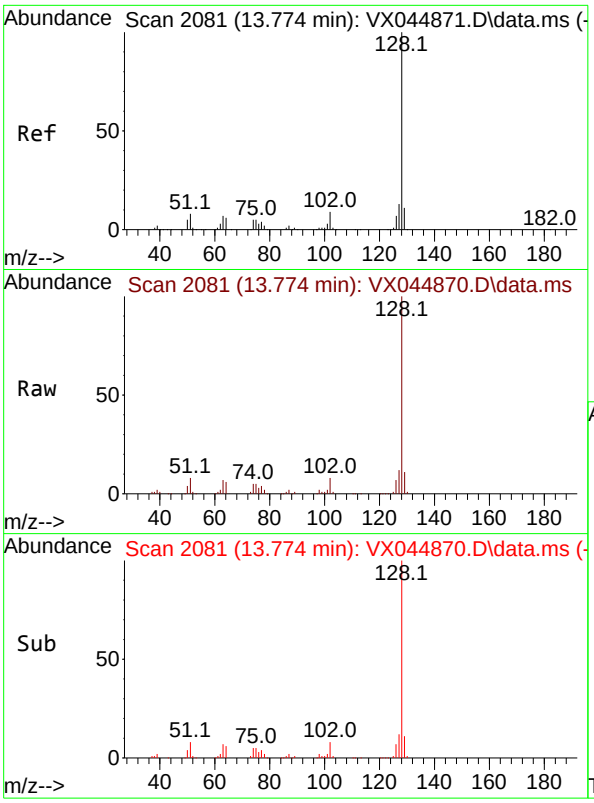


#94
Hexachlorobutadiene
Concen: 20.979 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:225 Resp: 15312

Ion	Ratio	Lower	Upper
225	100		
223	59.9	31.4	94.2
227	61.4	32.3	96.8

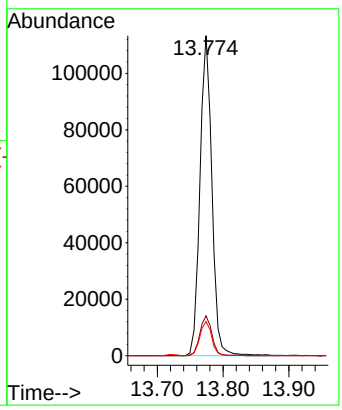




#95
Naphthalene
Concen: 21.502 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:128 Resp: 14290

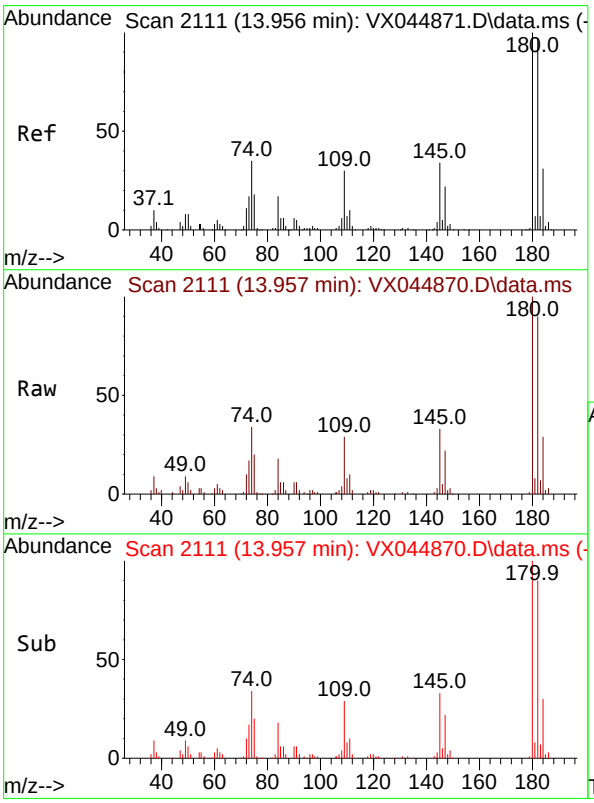
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.6	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

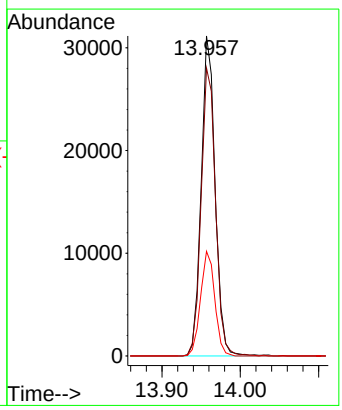
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.722 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:180 Resp: 38389

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.9	143.6
145	33.5	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	127984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233736	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	204751	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92593	49.424	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.840%			
35) Dibromofluoromethane	5.379	113	74906	49.291	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.580%			
50) Toluene-d8	8.646	98	289575	50.392	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.780%			
62) 4-Bromofluorobenzene	11.079	95	100798	52.031	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	89581	49.905	ug/l	100
3) Chloromethane	1.300	50	107836	49.359	ug/l	100
4) Vinyl Chloride	1.373	62	103354	48.832	ug/l	100
5) Bromomethane	1.593	94	31886	50.345	ug/l	100
6) Chloroethane	1.666	64	43657	55.583	ug/l	100
7) Trichlorofluoromethane	1.873	101	131729	49.215	ug/l	100
8) Diethyl Ether	2.129	74	48023	49.473	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.318	101	80068	49.511	ug/l	100
10) Methyl Iodide	2.446	142	108383	51.712	ug/l	100
11) Tert butyl alcohol	2.983	59	87254	251.049	ug/l	100
12) 1,1-Dichloroethene	2.312	96	80672	48.904	ug/l	100
13) Acrolein	2.233	56	90518	252.426	ug/l	100
14) Allyl chloride	2.660	41	148044	49.658	ug/l	100
15) Acrylonitrile	3.062	53	242268	261.074	ug/l	100
16) Acetone	2.379	43	187739	249.274	ug/l	100
17) Carbon Disulfide	2.501	76	225511	49.853	ug/l	100
18) Methyl Acetate	2.702	43	121039	50.928	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	261852	49.890	ug/l	100
20) Methylene Chloride	2.782	84	90038	48.808	ug/l	100
21) trans-1,2-Dichloroethene	3.086	96	81950	50.475	ug/l	100
22) Diisopropyl ether	3.757	45	287347	50.946	ug/l	100
23) Vinyl Acetate	3.714	43	1190152	258.830	ug/l	100
24) 1,1-Dichloroethane	3.605	63	157003	49.749	ug/l	100
25) 2-Butanone	4.556	43	323510	264.528	ug/l	100
26) 2,2-Dichloropropane	4.470	77	121901	48.707	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	96965	49.721	ug/l	100
28) Bromochloromethane	4.891	49	74707	49.258	ug/l	100
29) Tetrahydrofuran	5.001	42	210414	259.105	ug/l	100
30) Chloroform	5.086	83	149581	48.874	ug/l	100
31) Cyclohexane	5.464	56	143500	49.322	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	128561	49.523	ug/l	100
36) 1,1-Dichloropropene	5.690	75	108206	49.353	ug/l	100
37) Ethyl Acetate	4.708	43	123238	50.535	ug/l	100
38) Carbon Tetrachloride	5.671	117	105873	49.277	ug/l	100
39) Methylcyclohexane	7.372	83	145338	51.274	ug/l	100
40) Benzene	6.031	78	343557	50.182	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.915	41	70572	54.065	ug/l		100
42) 1,2-Dichloroethane	6.080	62	110347	50.573	ug/l		100
43) Isopropyl Acetate	6.336	43	204703	51.981	ug/l		100
44) Trichloroethene	7.122	130	78274	50.020	ug/l		100
45) 1,2-Dichloropropane	7.427	63	85733	50.335	ug/l		100
46) Dibromomethane	7.573	93	59625	50.479	ug/l		100
47) Bromodichloromethane	7.817	83	116892	51.108	ug/l		100
48) Methyl methacrylate	7.689	41	98519	53.057	ug/l		100
49) 1,4-Dioxane	7.659	88	42094	1056.618	ug/l		100
51) 4-Methyl-2-Pentanone	8.573	43	647283	270.364	ug/l		100
52) Toluene	8.714	92	210007	51.507	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	120125	51.902	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	134763	52.223	ug/l		100
55) 1,1,2-Trichloroethane	9.146	97	79741	50.876	ug/l		100
56) Ethyl methacrylate	9.116	69	134975	53.319	ug/l		100
57) 1,3-Dichloropropane	9.305	76	141335	51.537	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	336412	270.652	ug/l		100
59) 2-Hexanone	9.427	43	472301	273.800	ug/l		100
60) Dibromochloromethane	9.518	129	87240	52.045	ug/l		100
61) 1,2-Dibromoethane	9.604	107	81915	51.564	ug/l		100
64) Tetrachloroethene	9.268	164	63537	49.206	ug/l		100
65) Chlorobenzene	10.079	112	224306	51.005	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.158	131	72478	51.203	ug/l		100
67) Ethyl Benzene	10.189	91	396269	51.061	ug/l		100
68) m/p-Xylenes	10.299	106	296507	103.573	ug/l		100
69) o-Xylene	10.640	106	144802	50.409	ug/l		100
70) Styrene	10.652	104	245518	53.051	ug/l		100
71) Bromoform	10.799	173	57417	54.352	ug/l	#	100
73) Isopropylbenzene	10.957	105	374776	50.239	ug/l		100
74) N-amyl acetate	10.841	43	176174	52.189	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	126542	49.364	ug/l		100
76) 1,2,3-Trichloropropane	11.237	75	102508m	49.903	ug/l		
77) Bromobenzene	11.195	156	84448	49.931	ug/l		100
78) n-propylbenzene	11.298	91	437572	50.818	ug/l		100
79) 2-Chlorotoluene	11.359	91	263269	49.749	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	307465	50.789	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	40487	50.701	ug/l		100
82) 4-Chlorotoluene	11.451	91	295844	50.531	ug/l		100
83) tert-Butylbenzene	11.713	119	306830	50.102	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	311205	52.085	ug/l		100
85) sec-Butylbenzene	11.890	105	384155	50.657	ug/l		100
86) p-Isopropyltoluene	12.006	119	315226	51.689	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	155575	50.021	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	156162	49.657	ug/l		100
89) n-Butylbenzene	12.329	91	287649	53.315	ug/l		100
90) Hexachloroethane	12.536	117	56951	49.874	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	154364	50.500	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	23924	51.135	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	93863	50.747	ug/l		100
94) Hexachlorobutadiene	13.725	225	35481	48.321	ug/l		100
95) Naphthalene	13.774	128	347645	51.995	ug/l		100
96) 1,2,3-Trichlorobenzene	13.956	180	95510	51.245	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

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

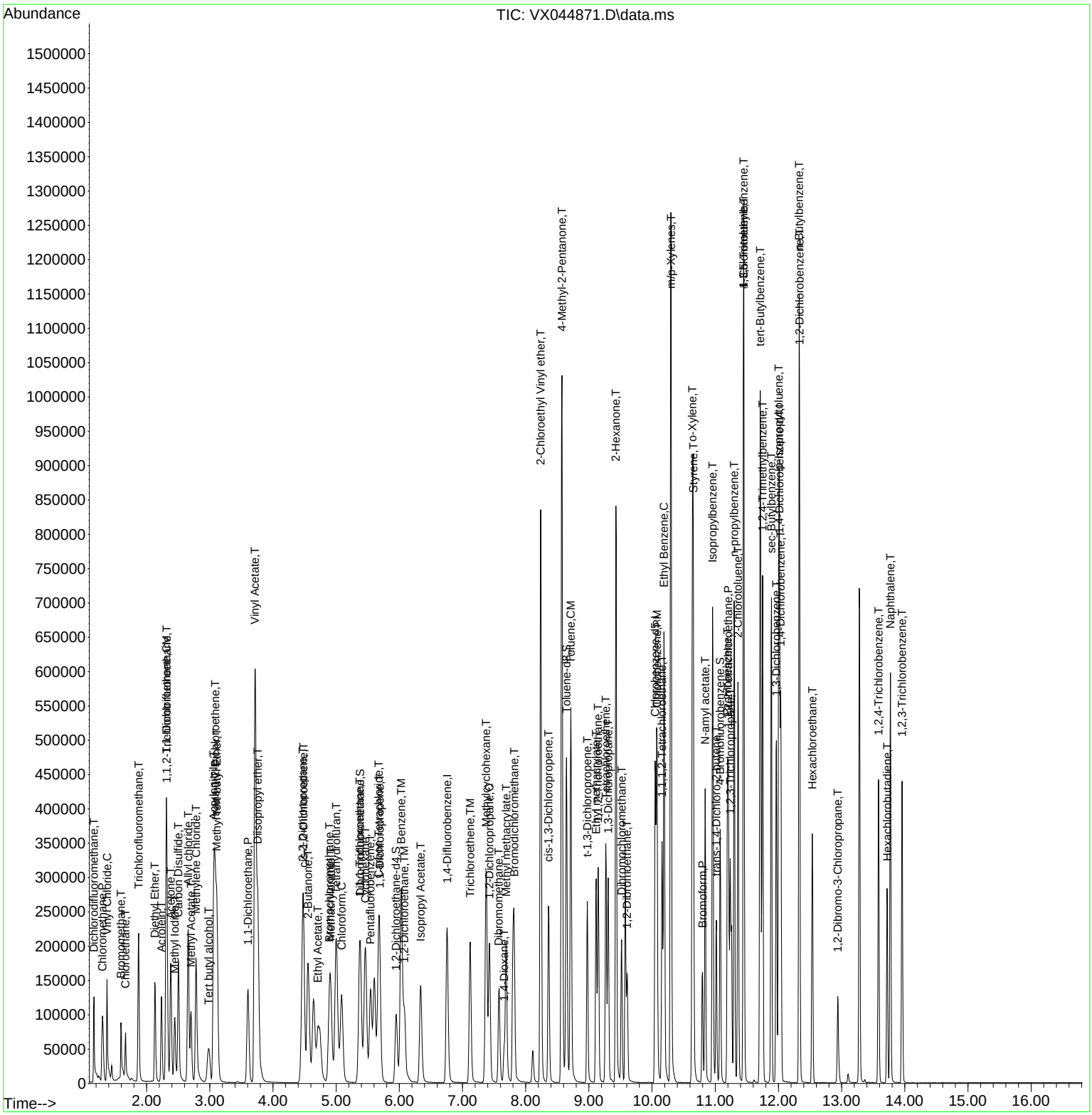
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

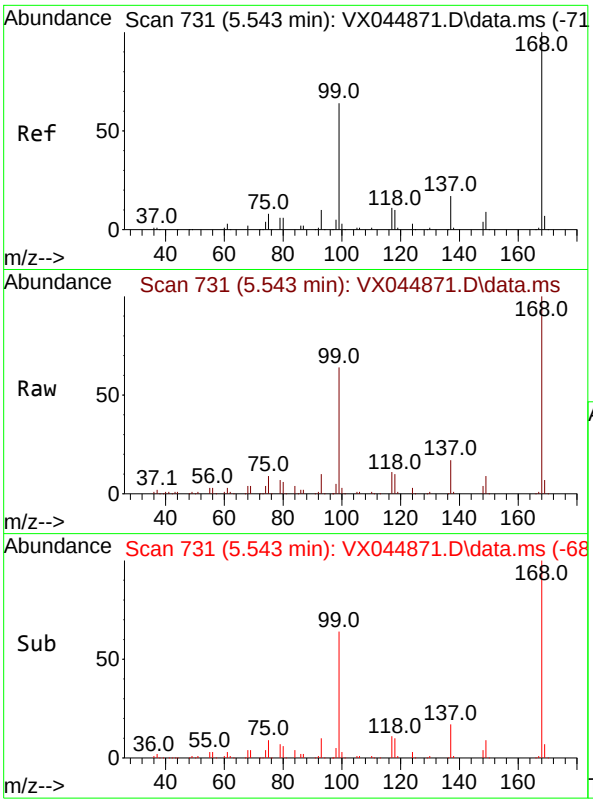
Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

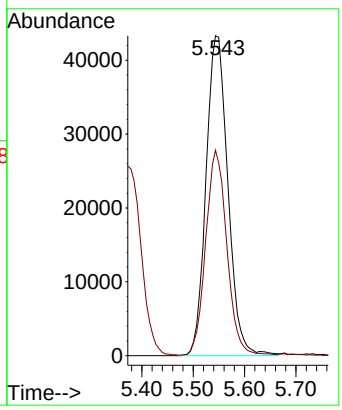




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:168 Resp: 12798

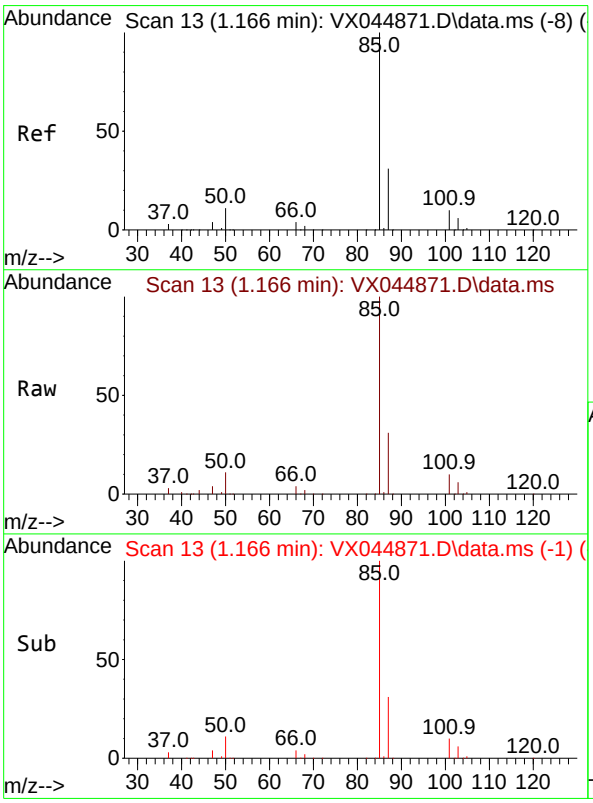
Ion	Ratio	Lower	Upper
168	100		
99	64.0	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

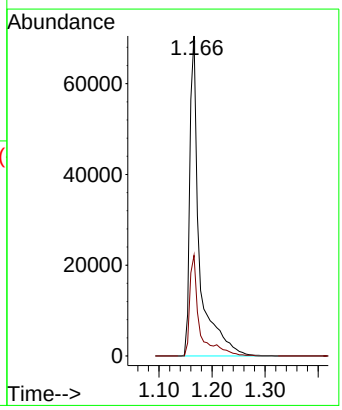
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

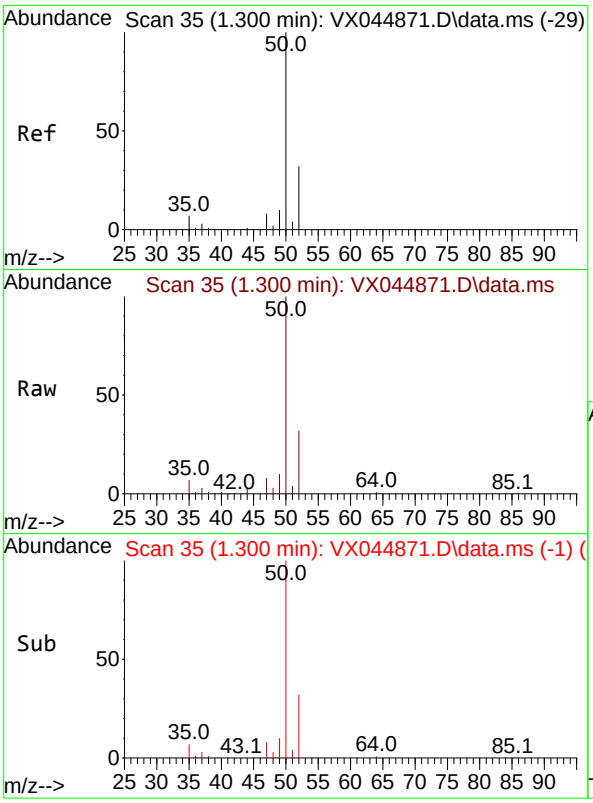


#2
Dichlorodifluoromethane
Concen: 49.905 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 85 Resp: 89581

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

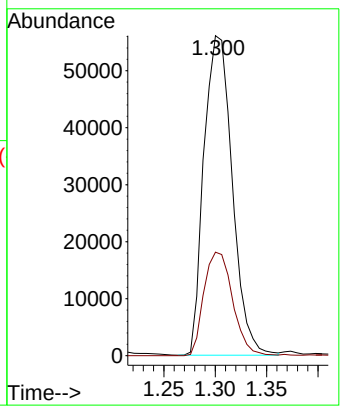




#3
Chloromethane
Concen: 49.359 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 50 Resp: 10783

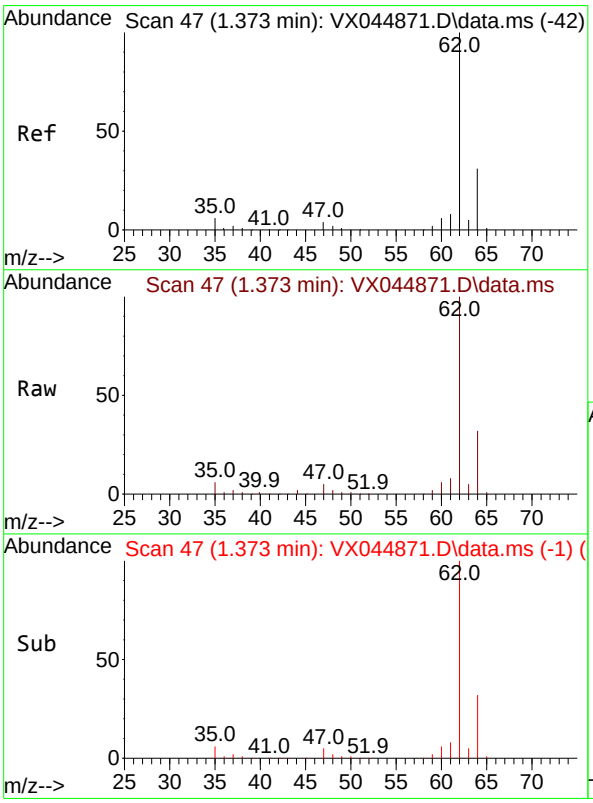
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

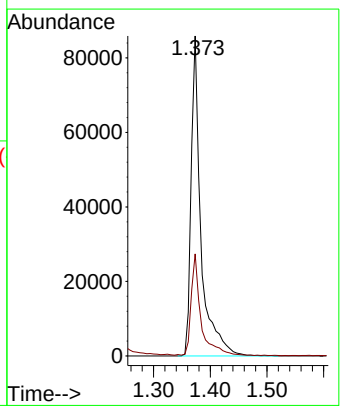
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

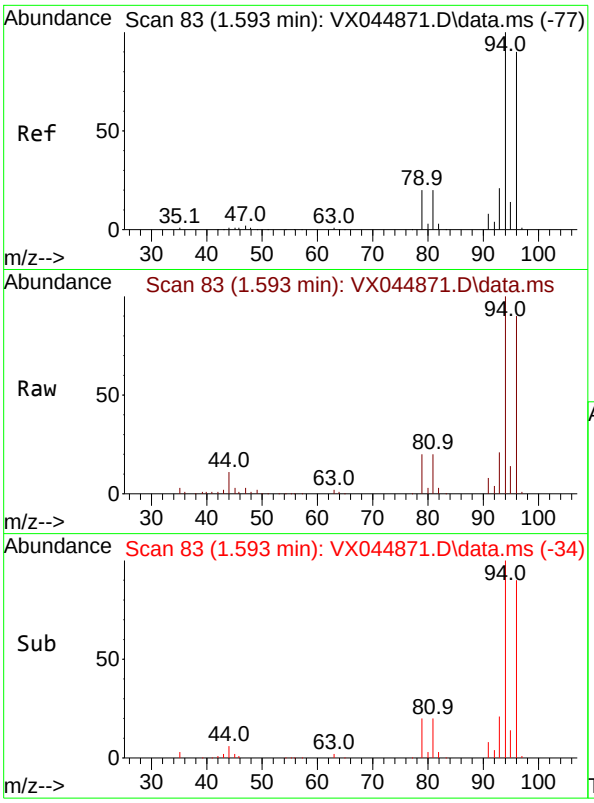


#4
Vinyl Chloride
Concen: 48.832 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 103354

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0

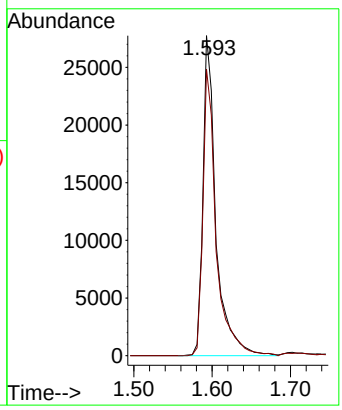




#5
Bromomethane
Concen: 50.345 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 94 Resp: 3188

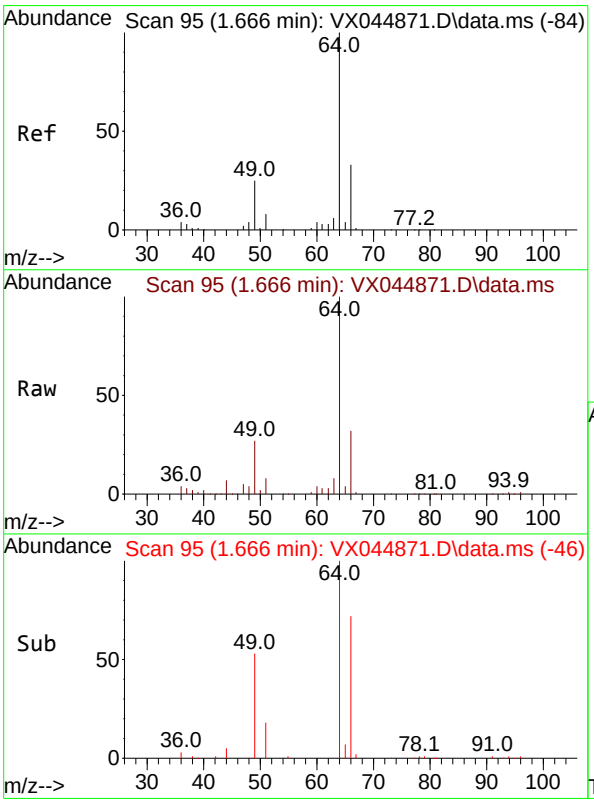
Ion	Ratio	Lower	Upper
94	100		
96	89.5	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

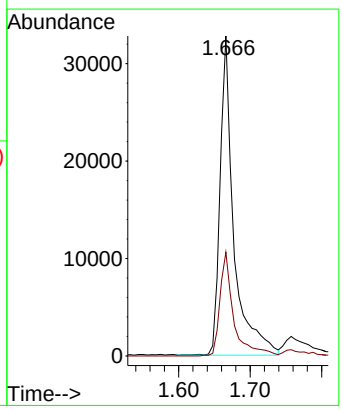
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

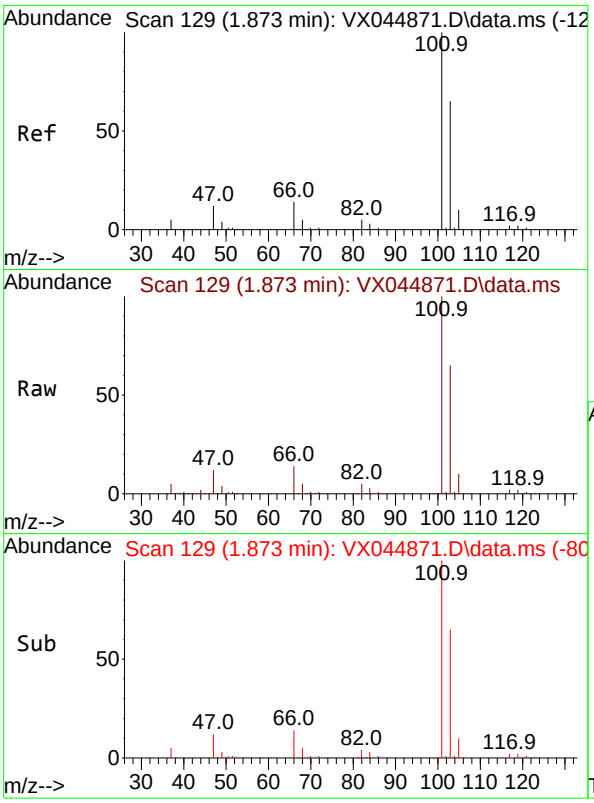


#6
Chloroethane
Concen: 55.583 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 64 Resp: 43657

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.9	38.9

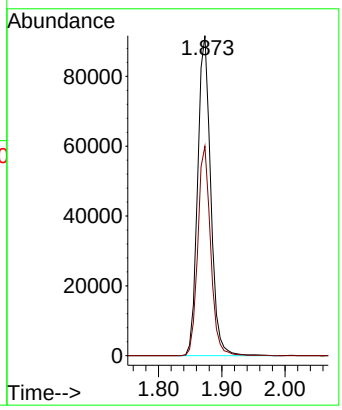




#7
Trichlorofluoromethane
Concen: 49.215 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:101 Resp: 13172

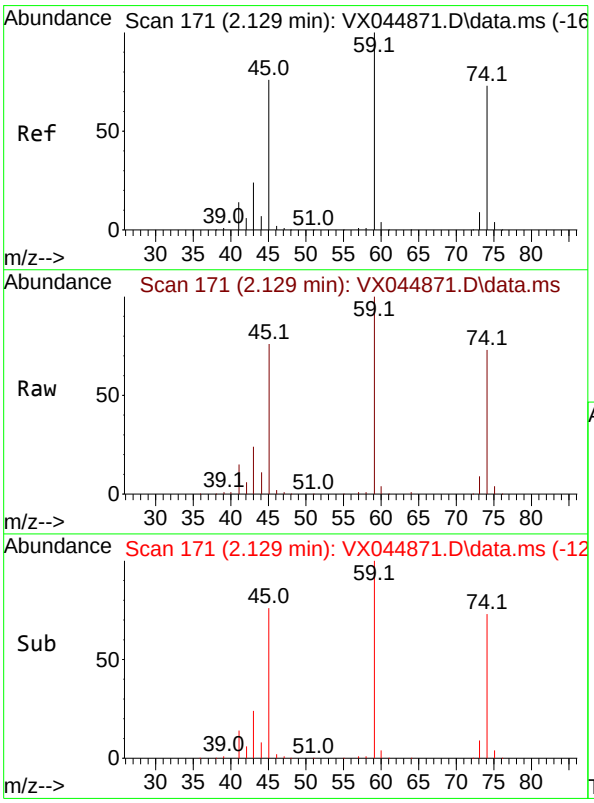
Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

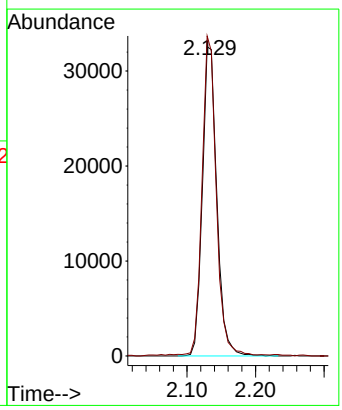
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

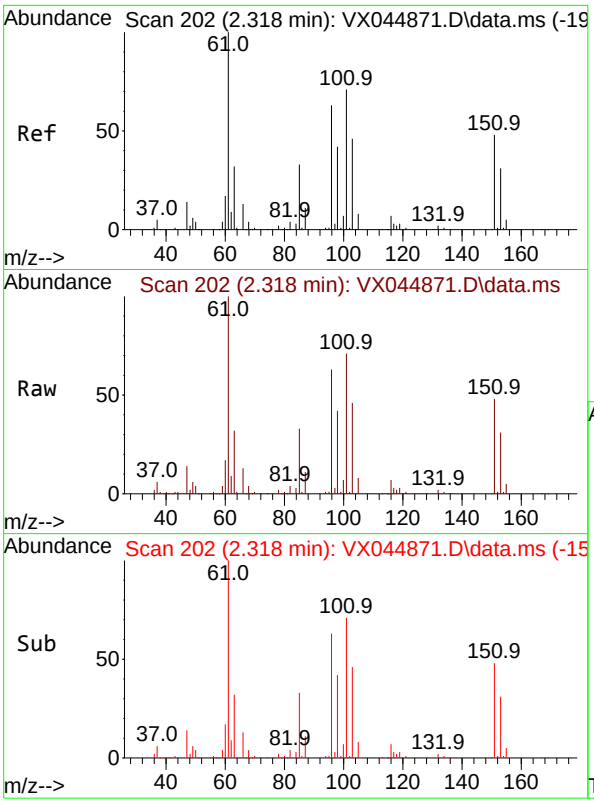


#8
Diethyl Ether
Concen: 49.473 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 74 Resp: 48023

Ion	Ratio	Lower	Upper
74	100		
45	102.3	51.1	153.4

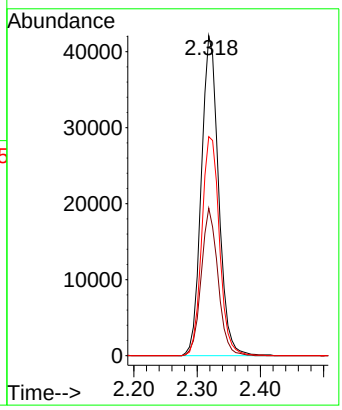




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.511 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:101 Resp: 8006

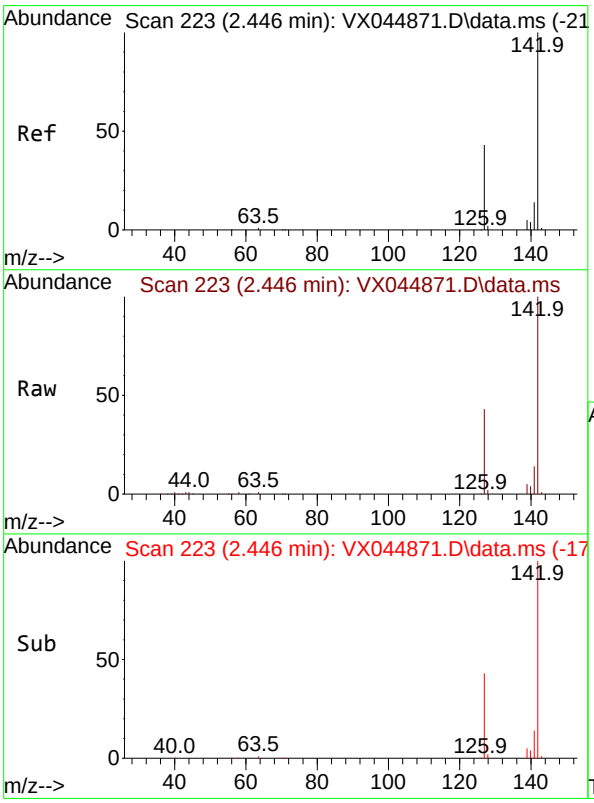
Ion	Ratio	Lower	Upper
101	100		
85	44.6	35.7	53.5
151	70.0	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

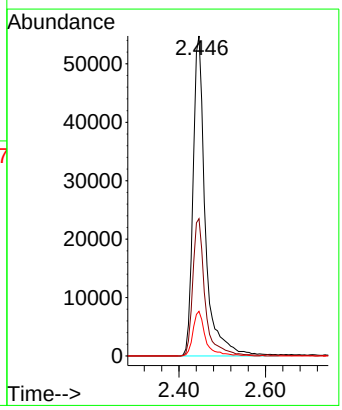
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

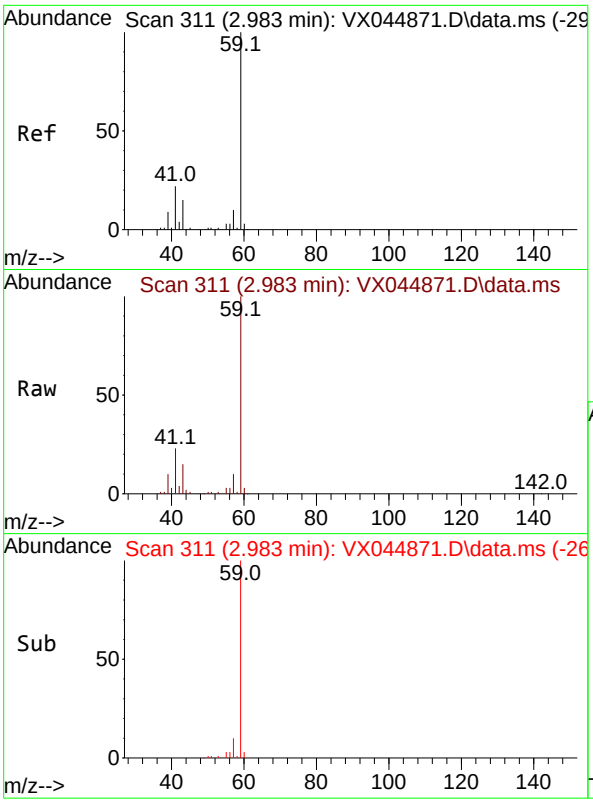


#10
Methyl Iodide
Concen: 51.712 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:142 Resp: 108383

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.3	51.5
141	14.3	11.4	17.2

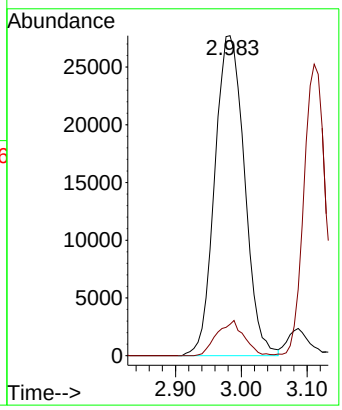




#11
Tert butyl alcohol
Concen: 251.049 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 59 Resp: 8725

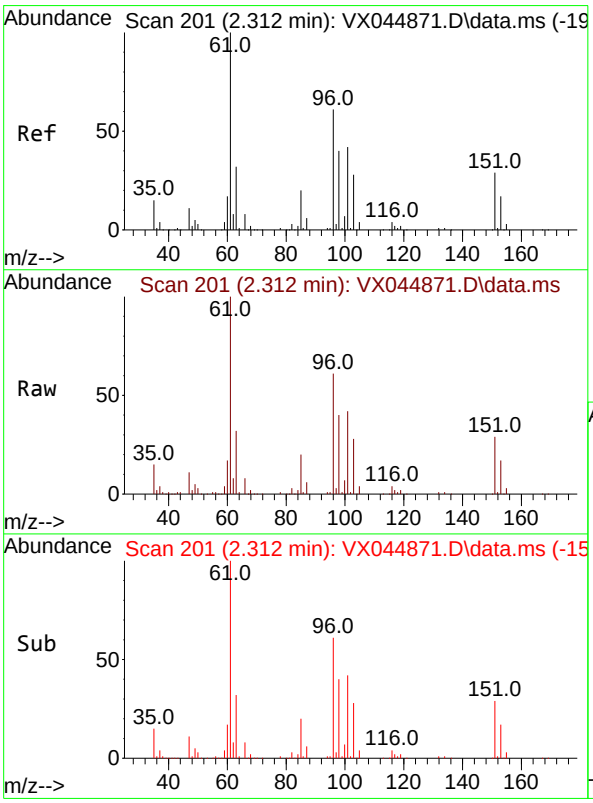
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

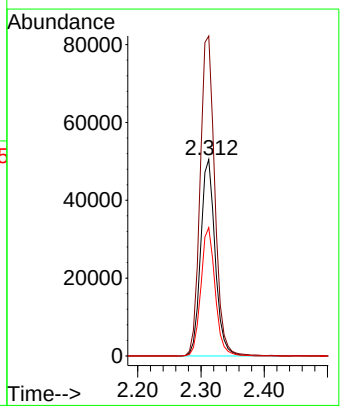
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

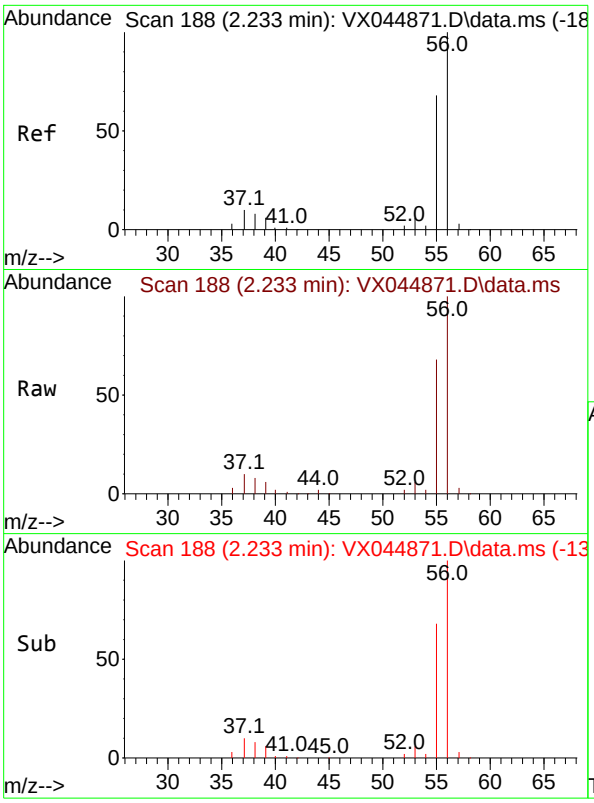


#12
1,1-Dichloroethene
Concen: 48.904 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 80672

Ion	Ratio	Lower	Upper
96	100		
61	162.8	130.2	195.4
98	65.3	52.2	78.4

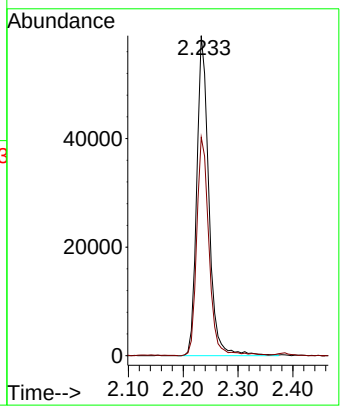




#13
Acrolein
Concen: 252.426 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 56 Resp: 9051

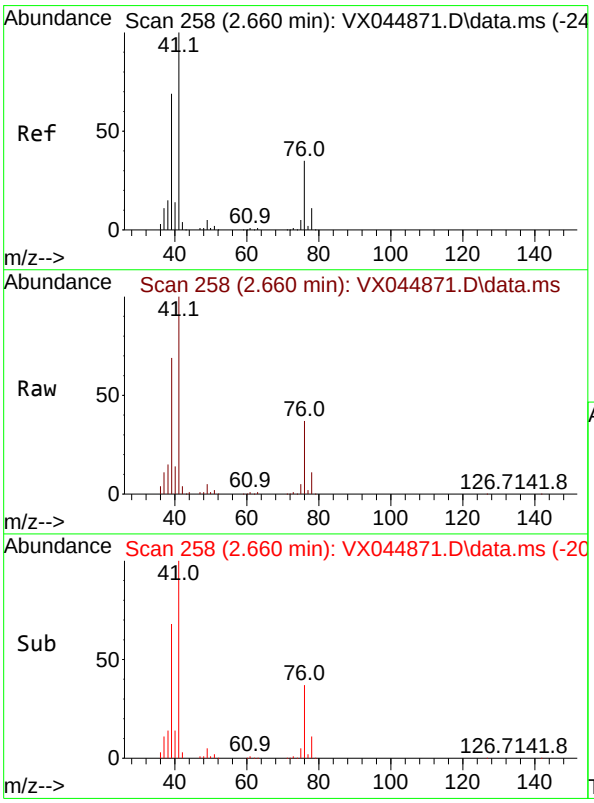
Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

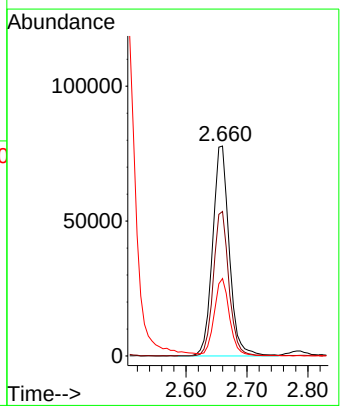
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

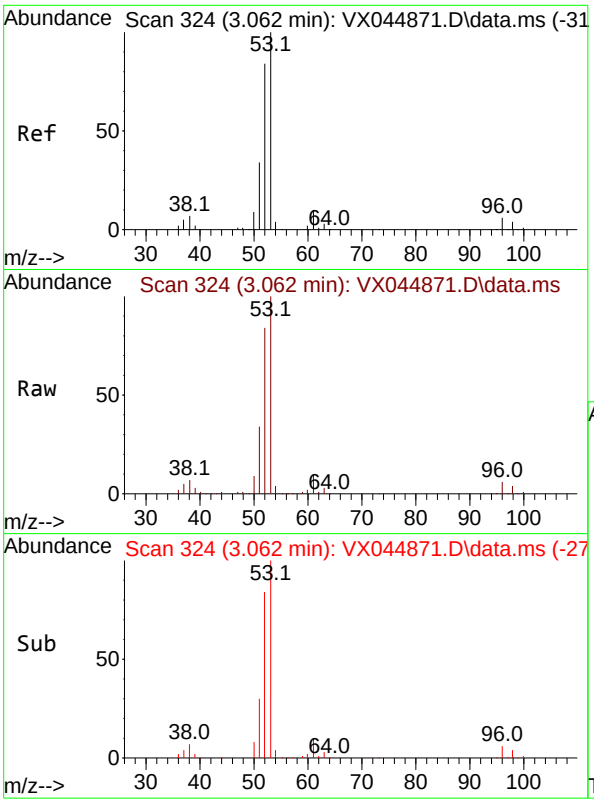


#14
Allyl chloride
Concen: 49.658 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 148044

Ion	Ratio	Lower	Upper
41	100		
39	64.3	51.4	77.2
76	33.7	27.0	40.4

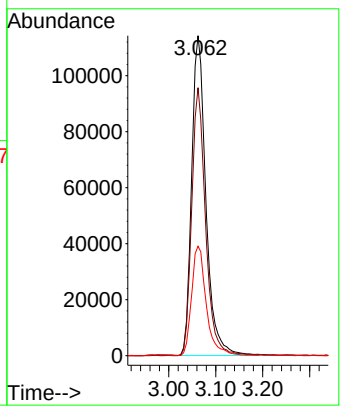




#15
Acrylonitrile
Concen: 261.074 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 53 Resp: 24226

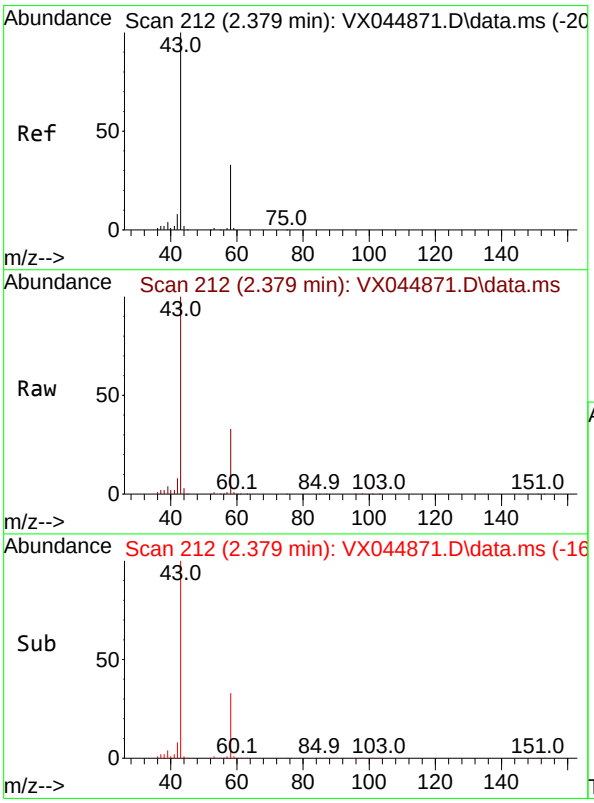
Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	35.0	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

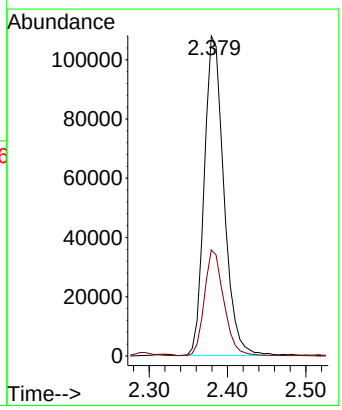
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

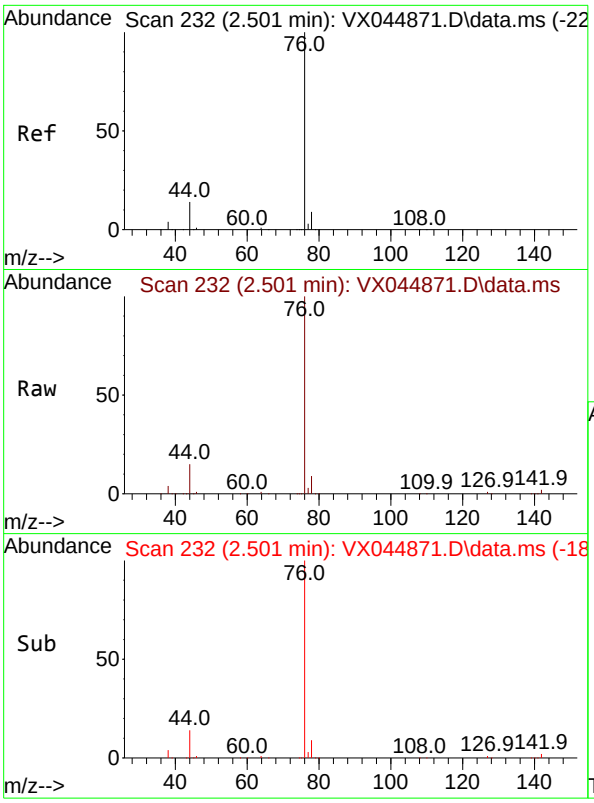


#16
Acetone
Concen: 249.274 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 187739

Ion	Ratio	Lower	Upper
43	100		
58	33.1	26.5	39.7

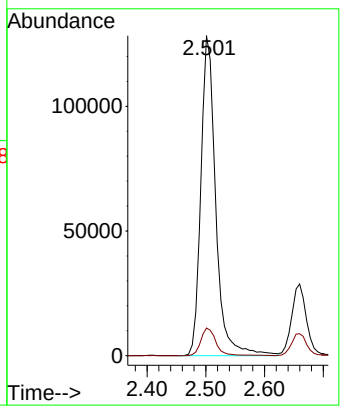




#17
Carbon Disulfide
Concen: 49.853 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 76 Resp: 22551

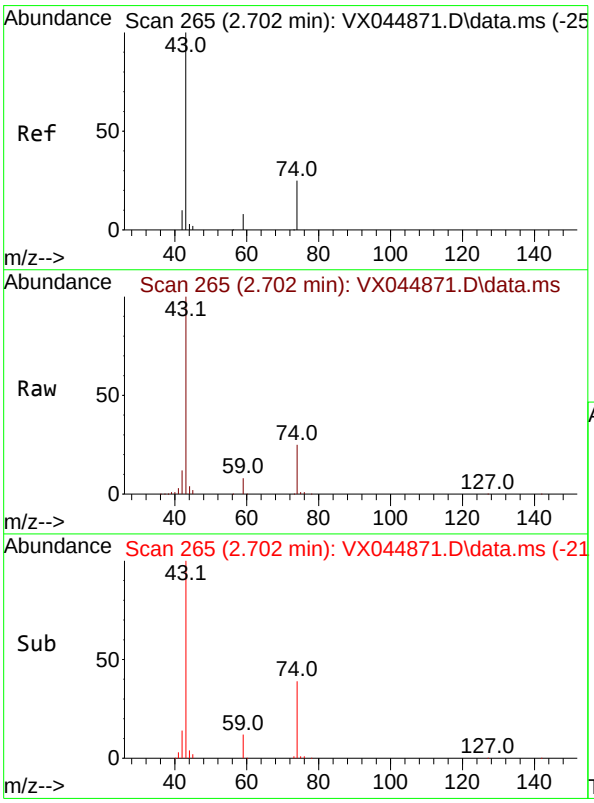
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

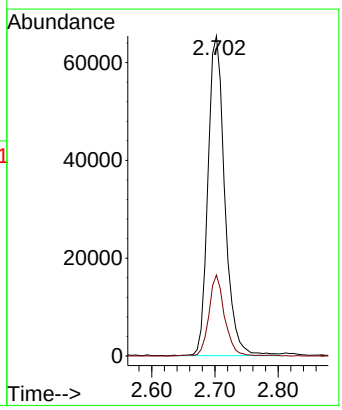
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

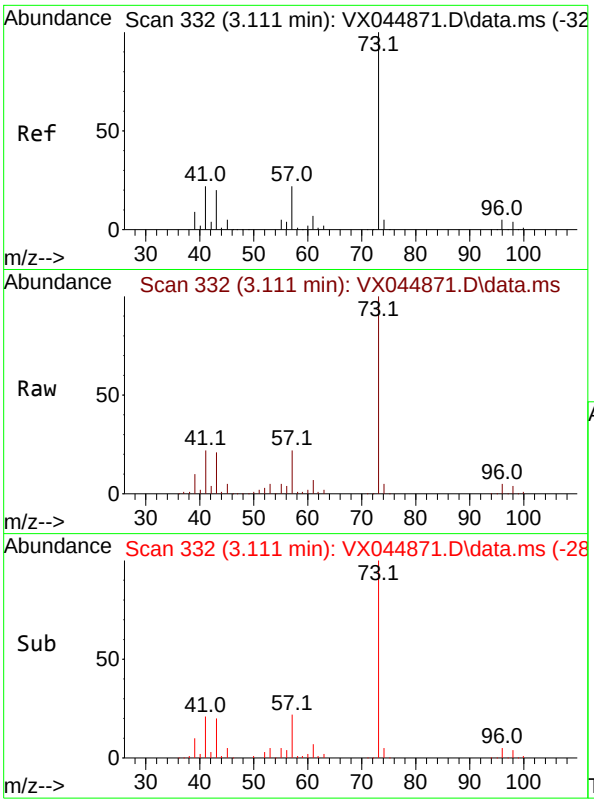


#18
Methyl Acetate
Concen: 50.928 ug/l
RT: 2.702 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 121039

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.9	28.3

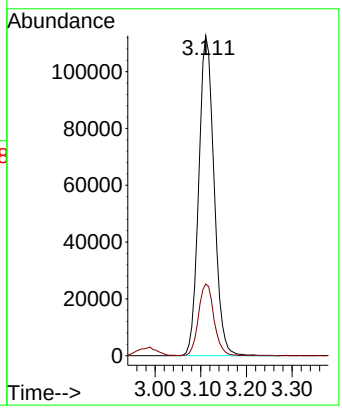




#19
Methyl tert-butyl Ether
Concen: 49.890 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 73 Resp: 26185

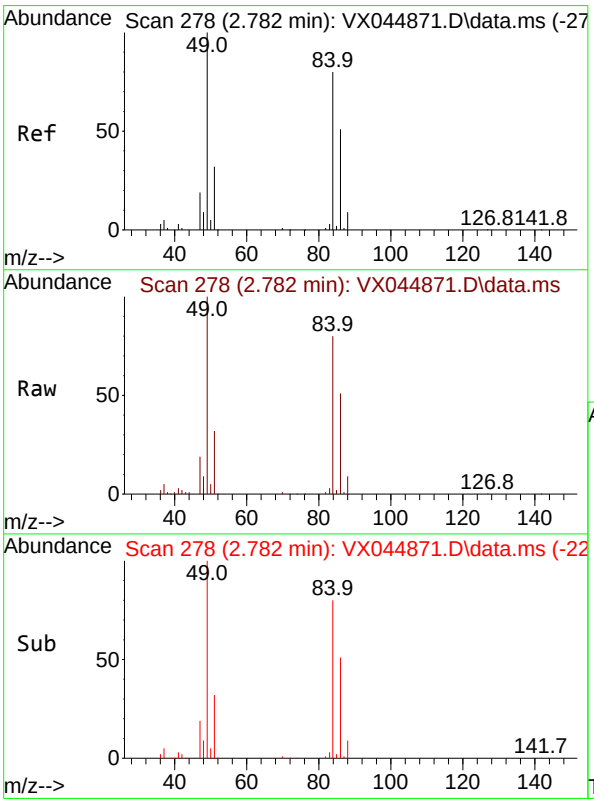
Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

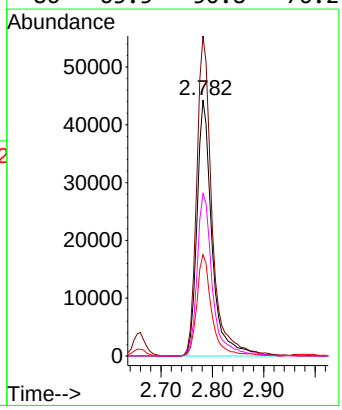
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

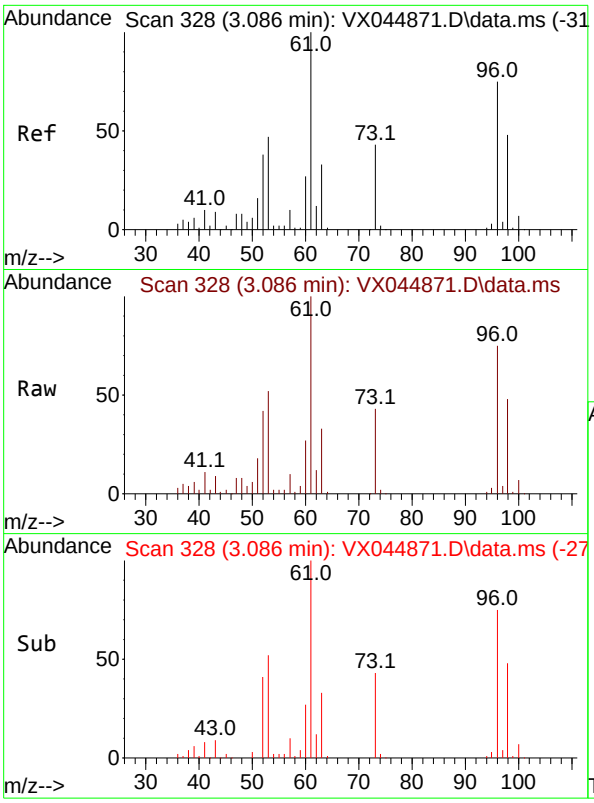


#20
Methylene Chloride
Concen: 48.808 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 84 Resp: 90038

Ion	Ratio	Lower	Upper
84	100		
49	125.1	100.1	150.1
51	39.6	31.7	47.5
86	63.5	50.8	76.2

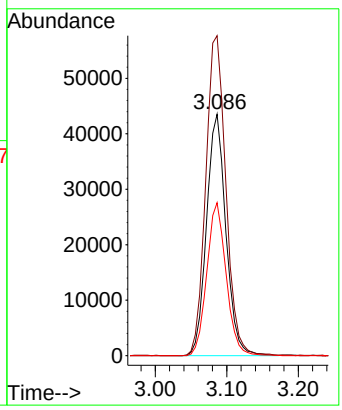




#21
trans-1,2-Dichloroethene
Concen: 50.475 ug/l
RT: 3.086 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 8195

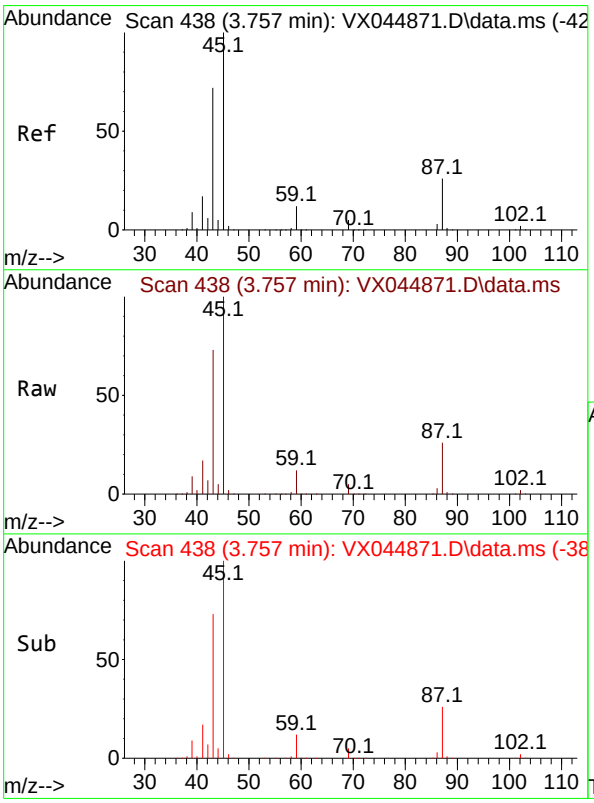
Ion	Ratio	Lower	Upper
96	100		
61	132.5	106.0	159.0
98	63.3	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

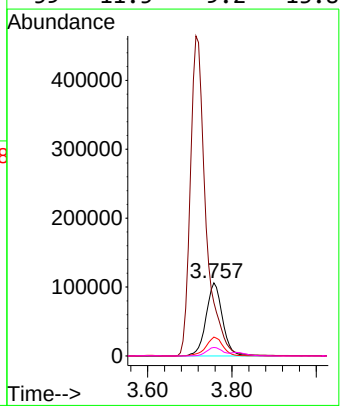
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

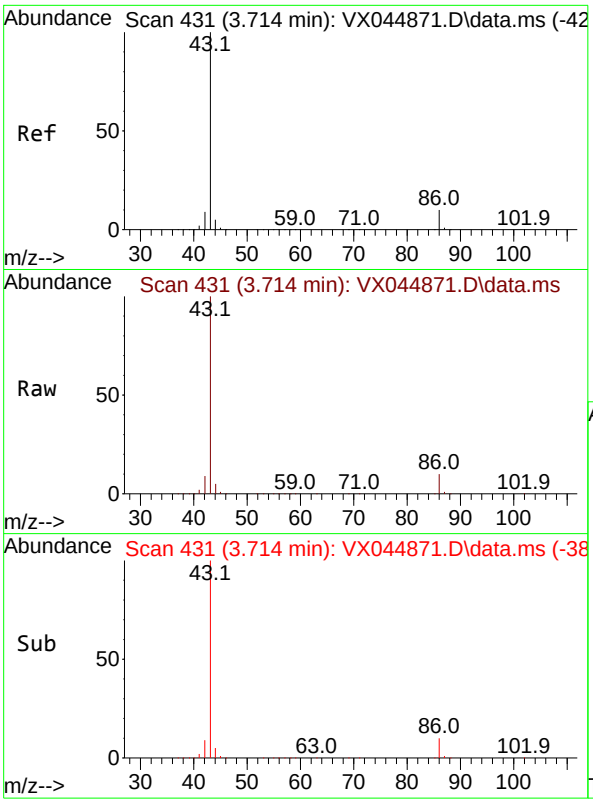


#22
Diisopropyl ether
Concen: 50.946 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 45 Resp: 287347

Ion	Ratio	Lower	Upper
45	100		
43	72.5	58.0	87.0
87	25.9	20.7	31.1
59	11.5	9.2	13.8

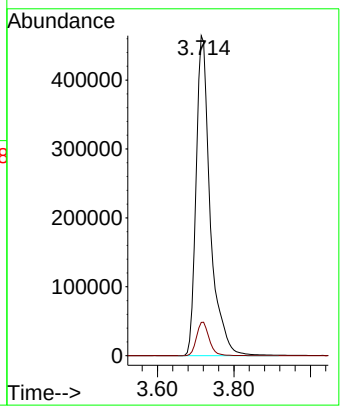




#23
Vinyl Acetate
Concen: 258.830 ug/l
RT: 3.714 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 119015

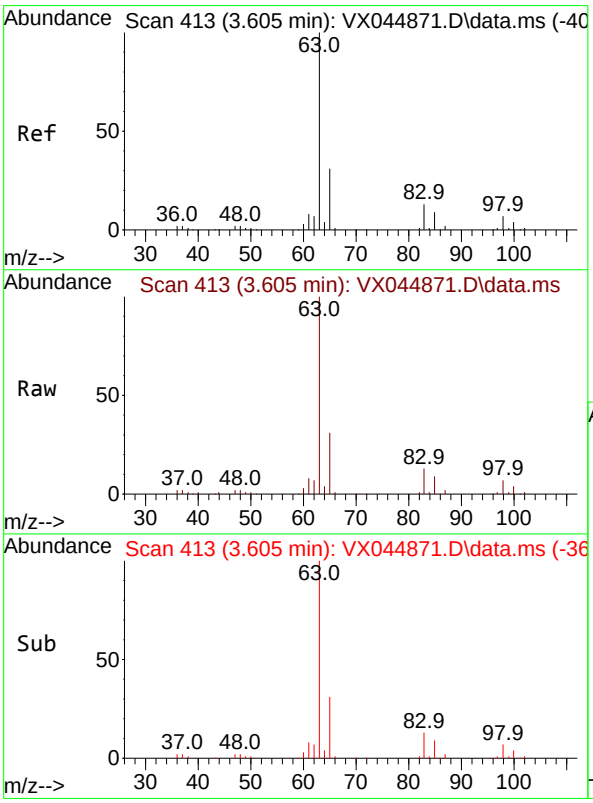
Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

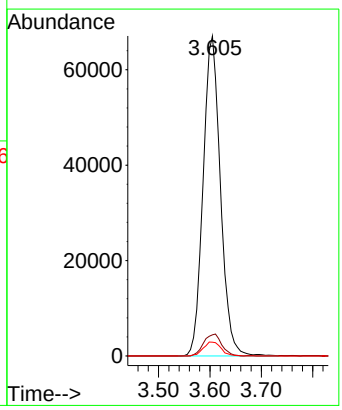
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

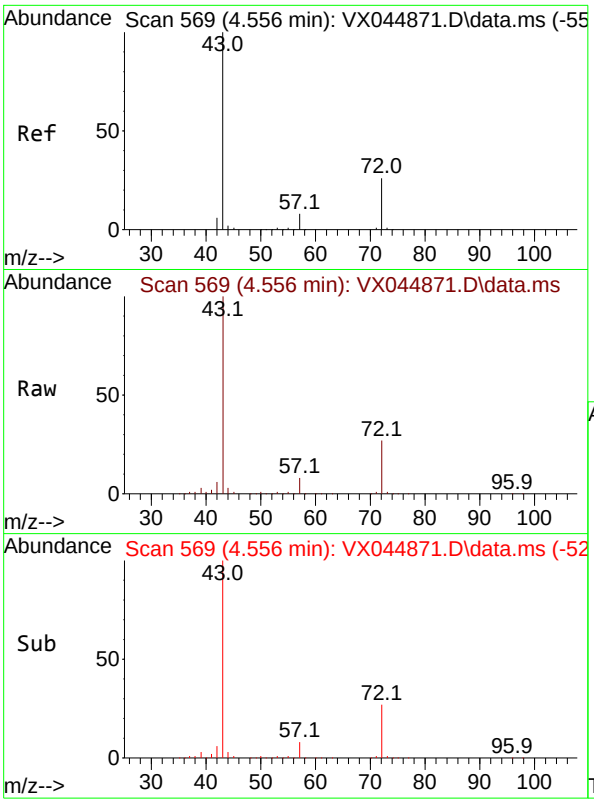


#24
1,1-Dichloroethane
Concen: 49.749 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 157003

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	4.3	2.1	6.5

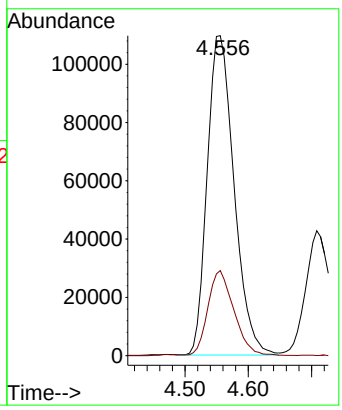




#25
2-Butanone
Concen: 264.528 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 32351

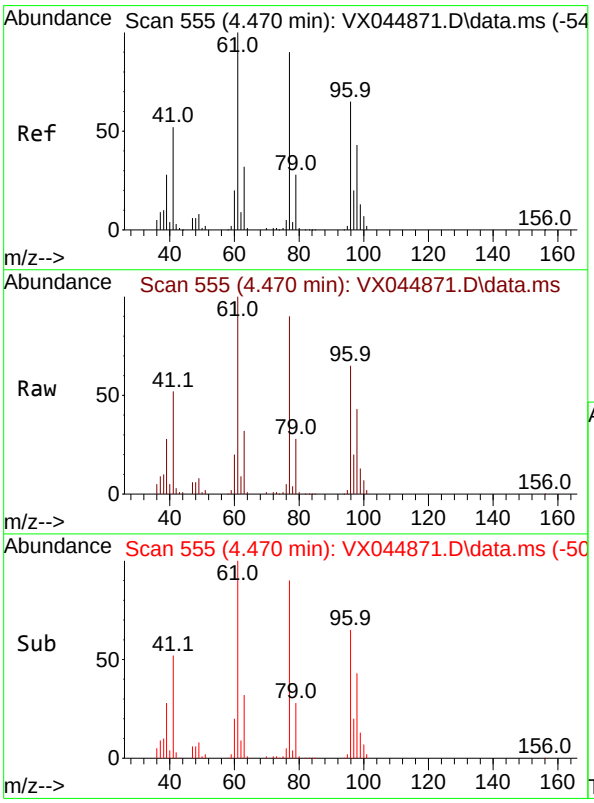
Ion	Ratio	Lower	Upper
43	100		
72	26.5	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

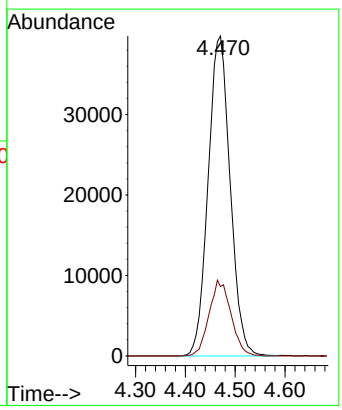
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

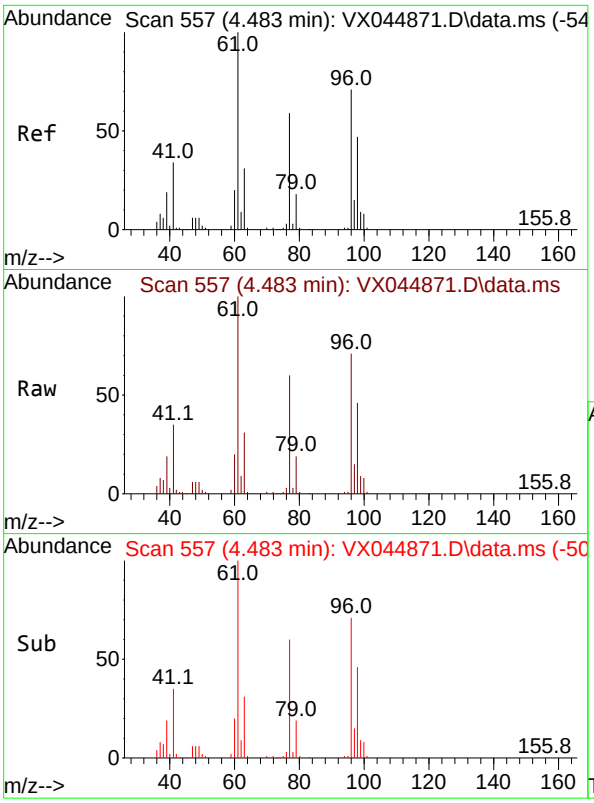


#26
2,2-Dichloropropane
Concen: 48.707 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 77 Resp: 121901

Ion	Ratio	Lower	Upper
77	100		
97	23.5	11.8	35.3

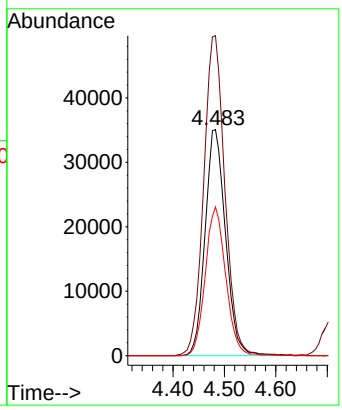




#27
cis-1,2-Dichloroethene
Concen: 49.721 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 9696

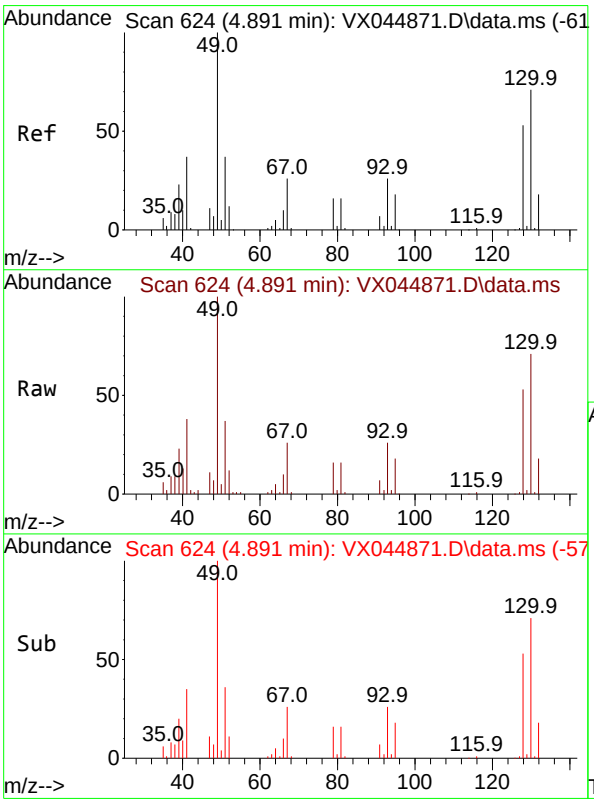
Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	294.0
98	65.6	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

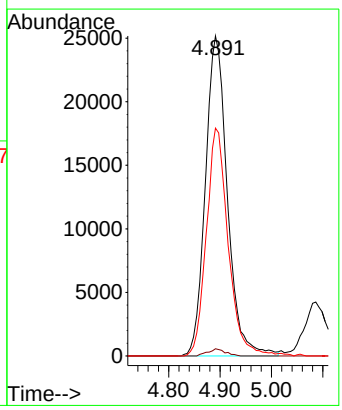
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

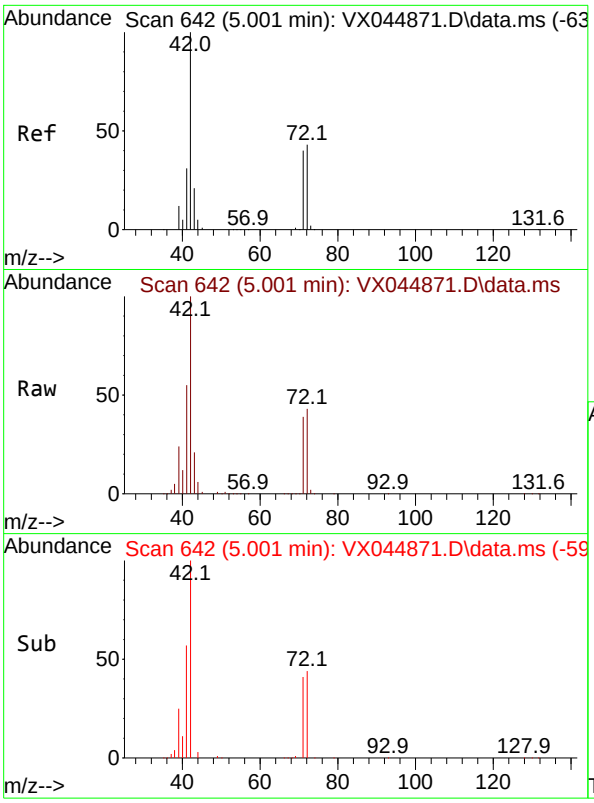


#28
Bromochloromethane
Concen: 49.258 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 49 Resp: 74707

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	70.9	56.7	85.1





#29
Tetrahydrofuran
Concen: 259.105 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

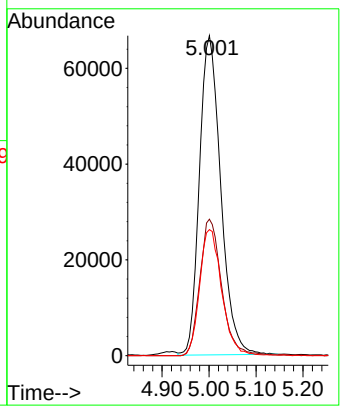
Tgt Ion: 42 Resp: 21041

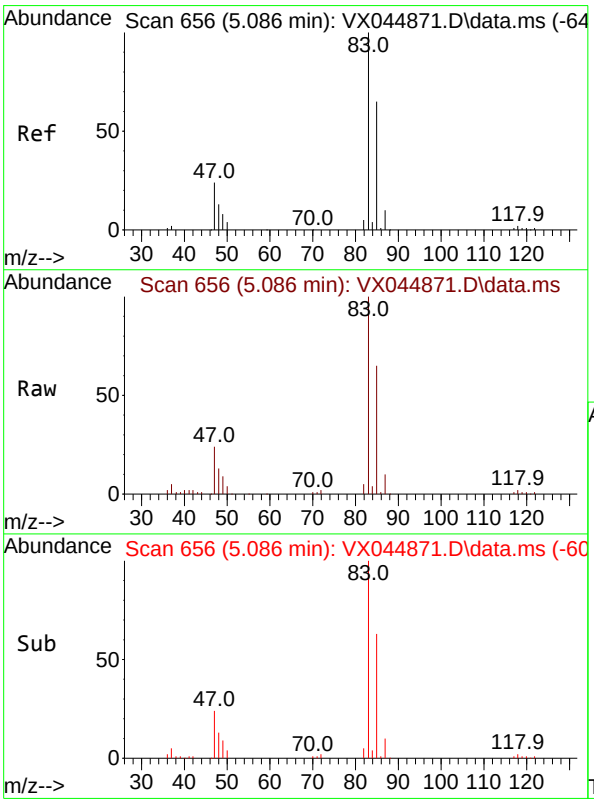
Ion	Ratio	Lower	Upper
42	100		
72	43.7	35.0	52.4
71	40.7	32.6	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

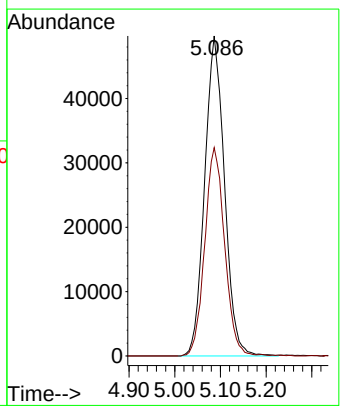


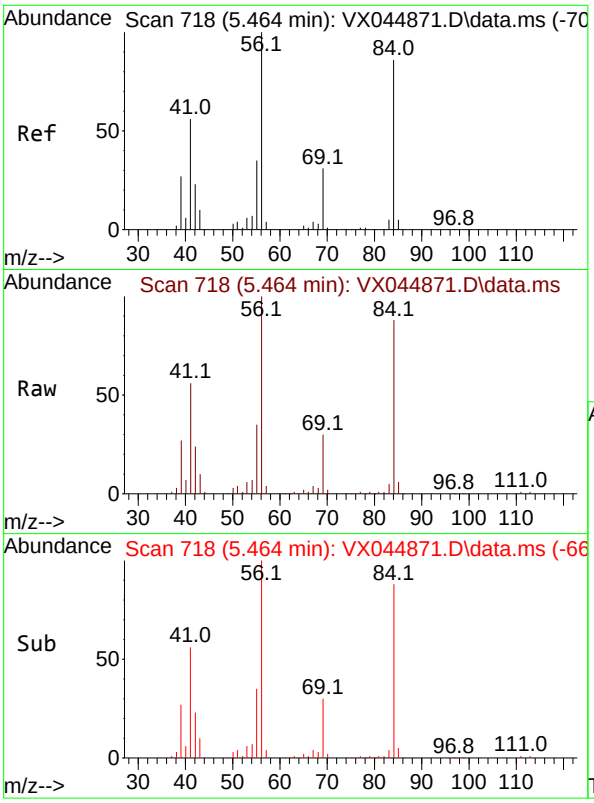


#30
Chloroform
Concen: 48.874 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 149581

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1

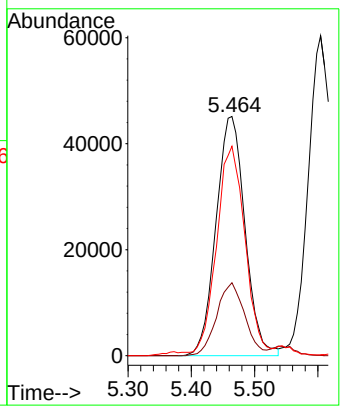




#31
Cyclohexane
Concen: 49.322 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 56 Resp: 14350

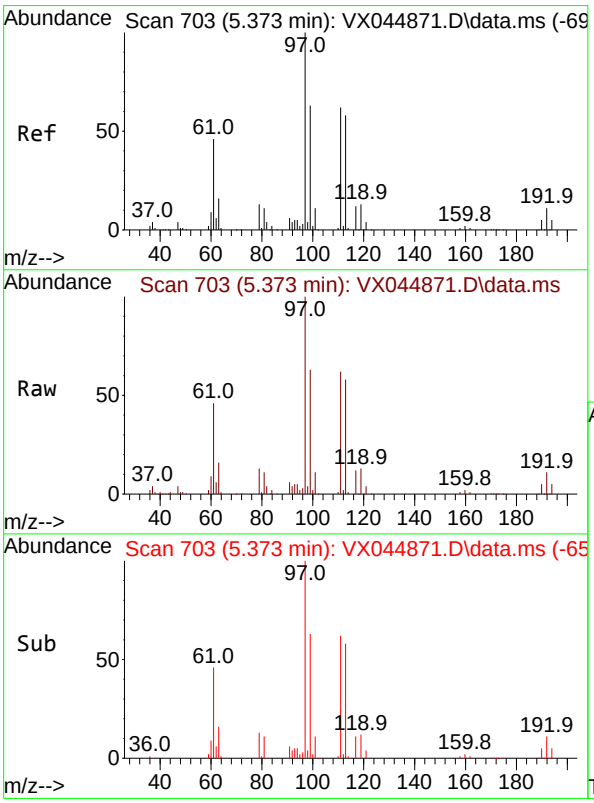
Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.4	36.6
84	86.3	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

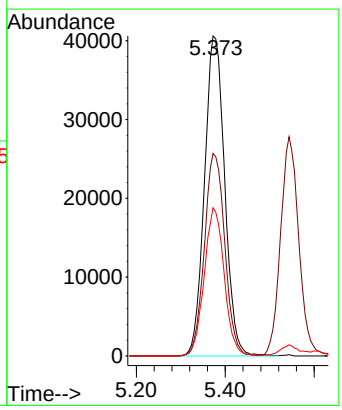
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

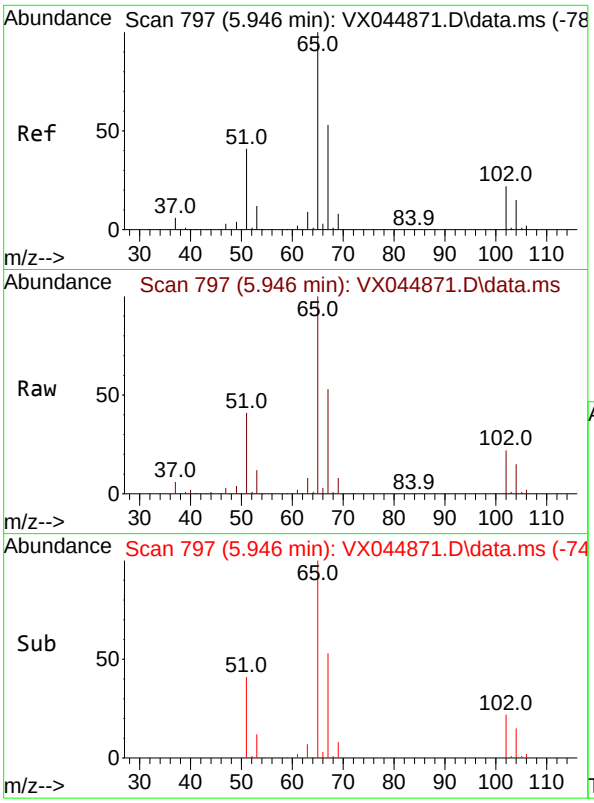


#32
1,1,1-Trichloroethane
Concen: 49.523 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 97 Resp: 128561

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.8	36.6	55.0

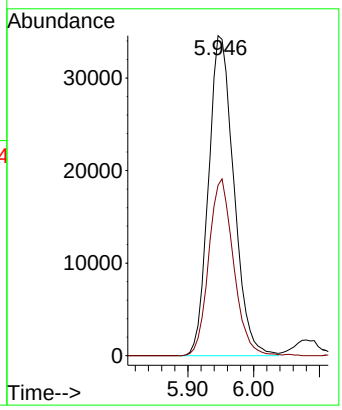




#33
1,2-Dichloroethane-d4
Concen: 49.424 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 65 Resp: 9259

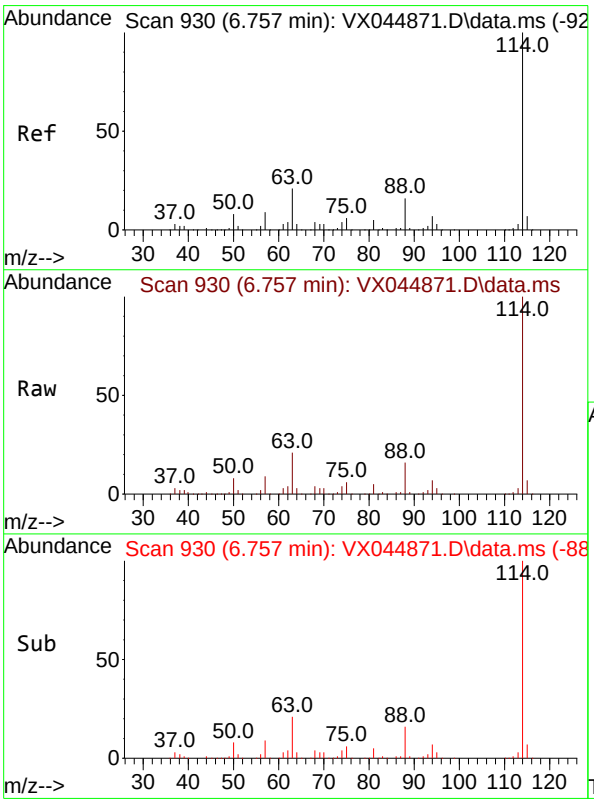
Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

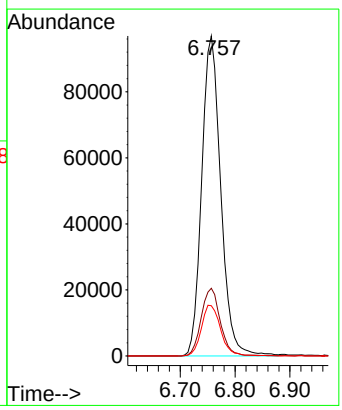
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

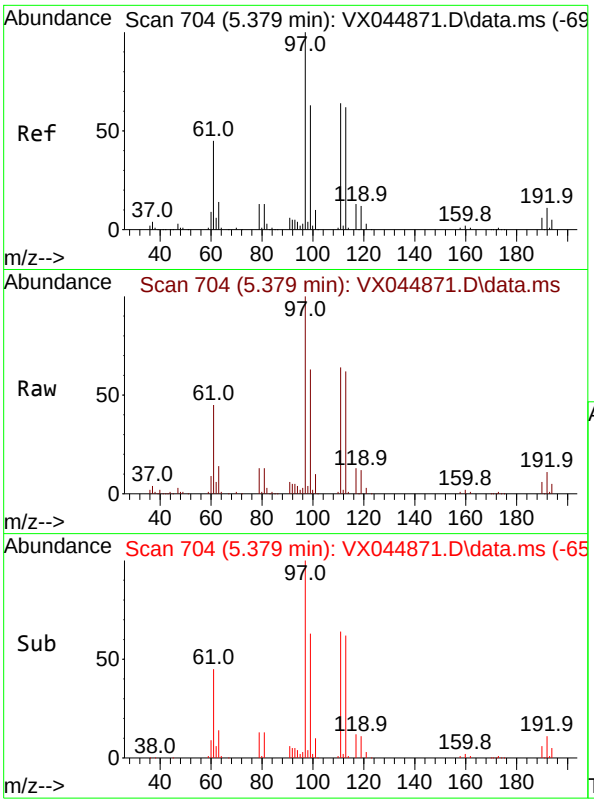


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:114 Resp: 233736

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	15.7	0.0	31.4

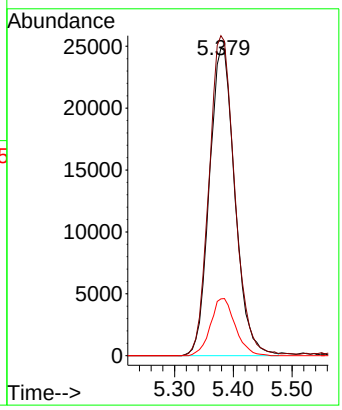




#35
Dibromofluoromethane
Concen: 49.291 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:113 Resp: 7490

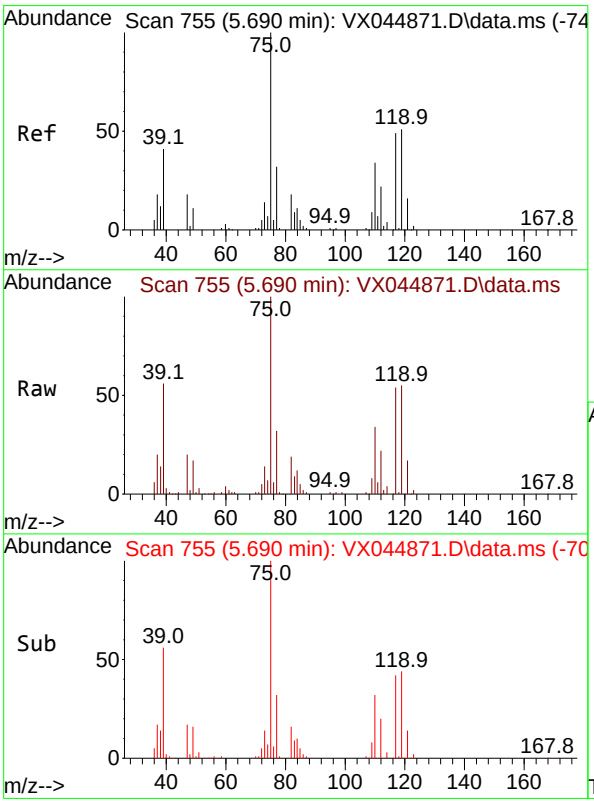
Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	18.0	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

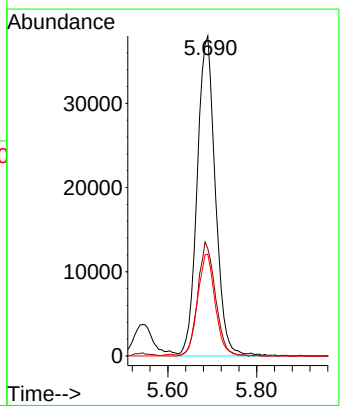
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

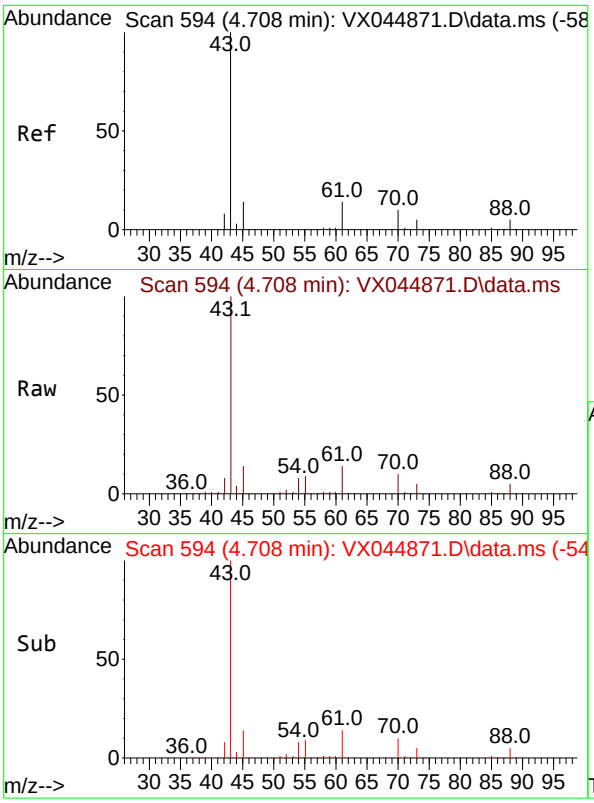


#36
1,1-Dichloropropene
Concen: 49.353 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 108206

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.8	24.6	37.0

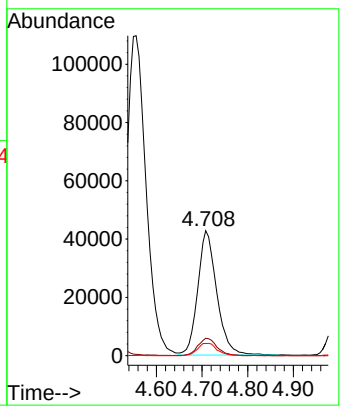




#37
Ethyl Acetate
Concen: 50.535 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 12323

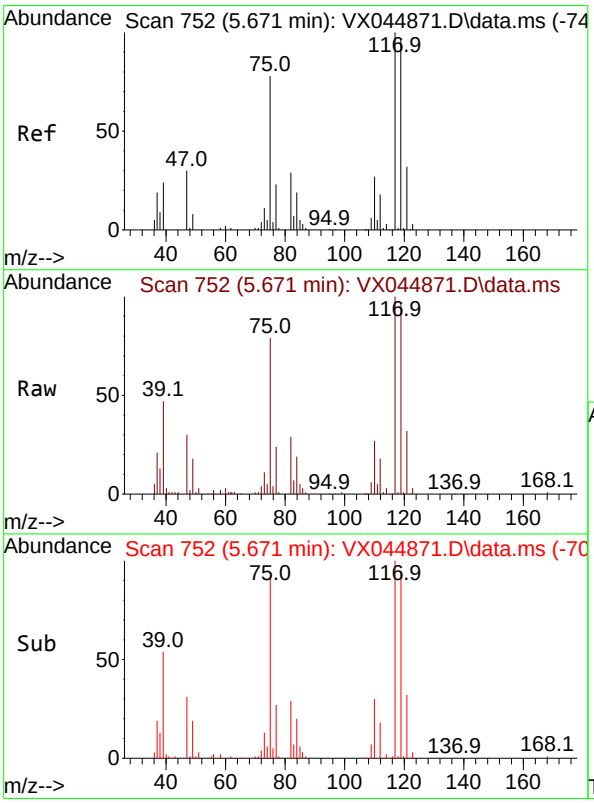
Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.4
70	10.2	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

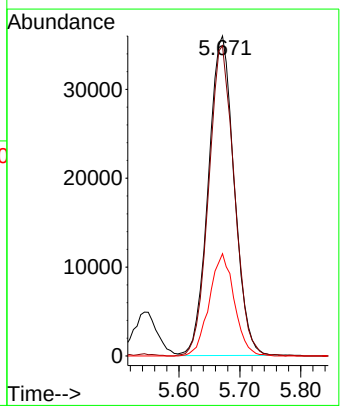
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

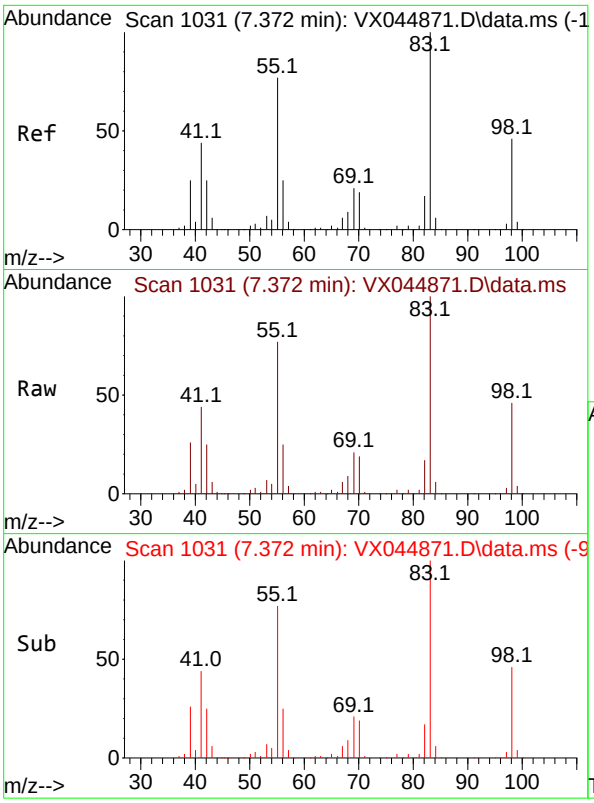


#38
Carbon Tetrachloride
Concen: 49.277 ug/l
RT: 5.671 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 105873

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.5	116.3
121	32.0	25.6	38.4

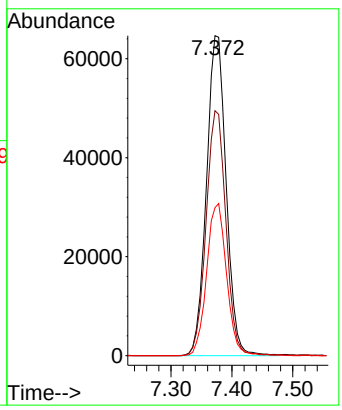




#39
Methylcyclohexane
Concen: 51.274 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 14533

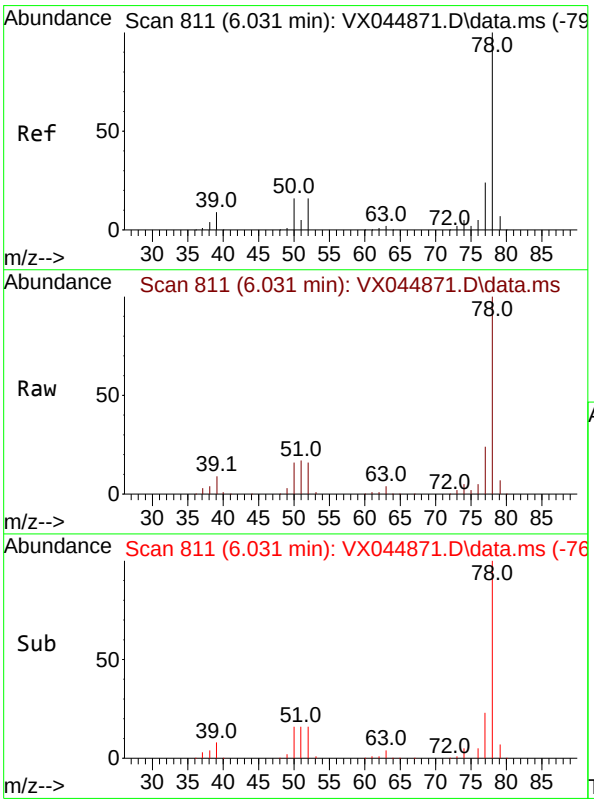
Ion	Ratio	Lower	Upper
83	100		
55	76.6	61.3	91.9
98	46.3	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

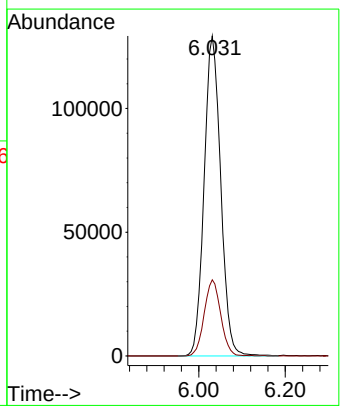
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

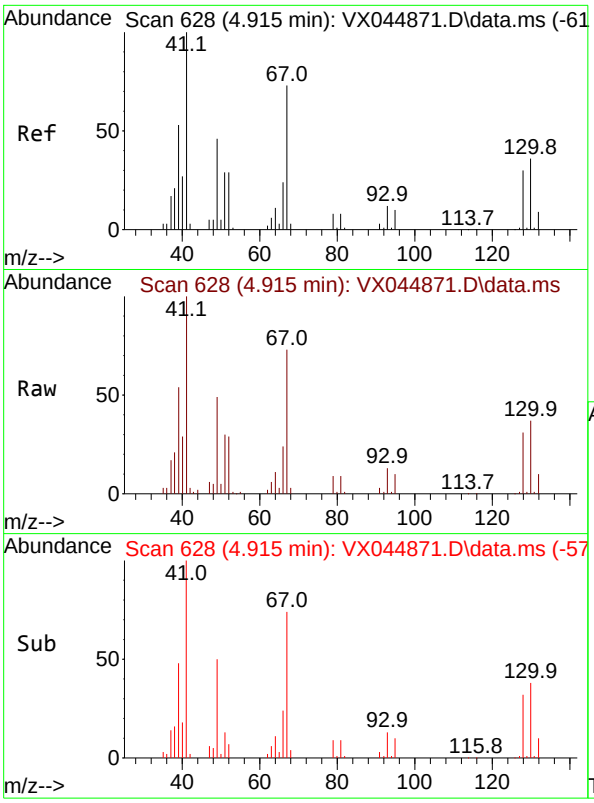


#40
Benzene
Concen: 50.182 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 78 Resp: 343557

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6

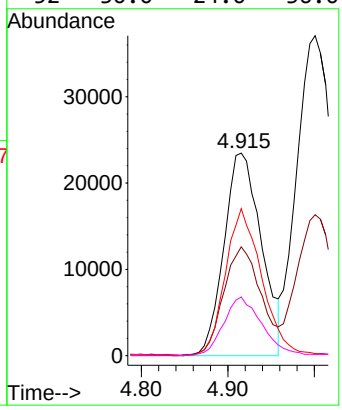




#41
Methacrylonitrile
Concen: 54.065 ug/l
RT: 4.915 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 7057

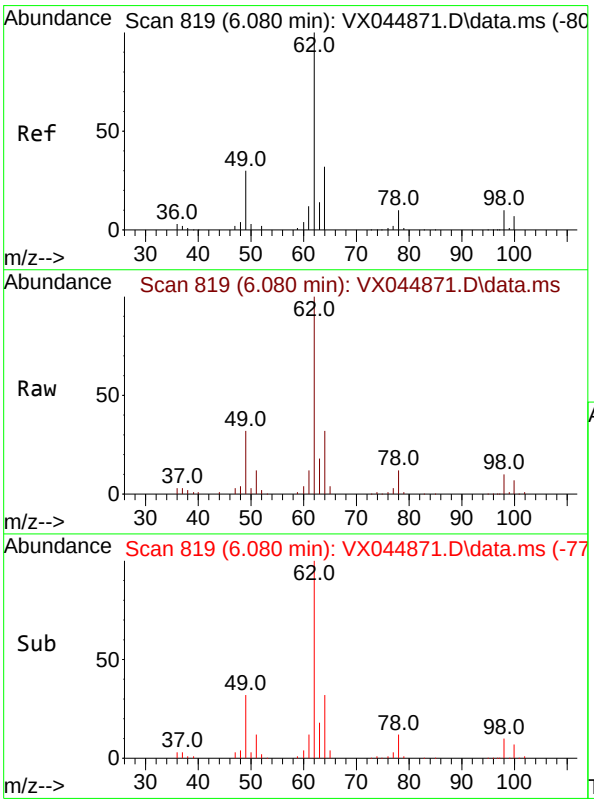
Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.1	64.7
67	71.3	57.0	85.6
52	30.0	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

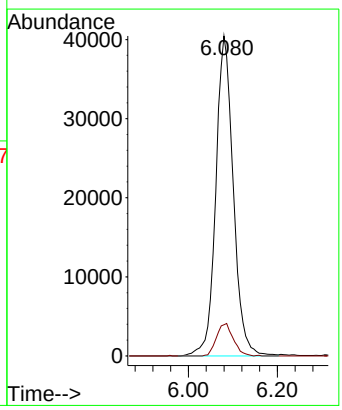
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

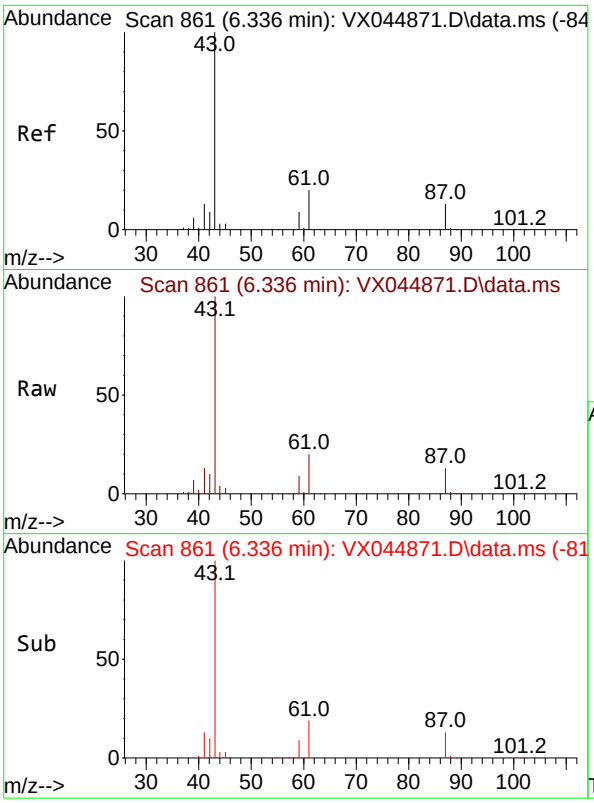


#42
1,2-Dichloroethane
Concen: 50.573 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 110347

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4

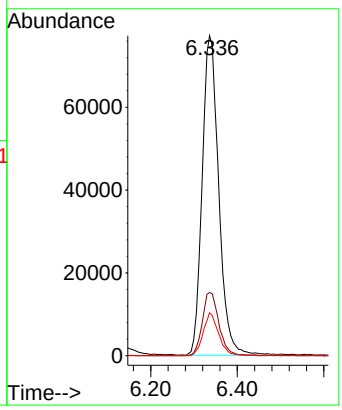




#43
Isopropyl Acetate
Concen: 51.981 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 20470

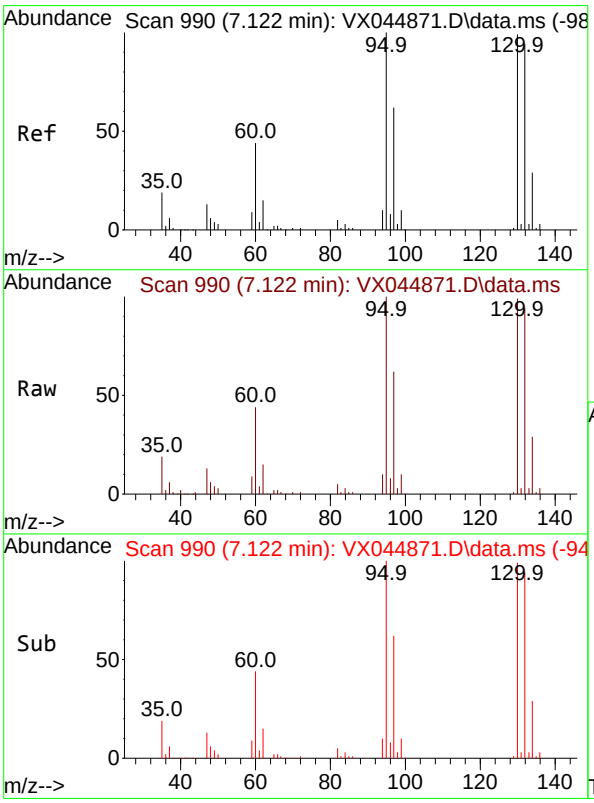
Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.8	23.8
87	12.5	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

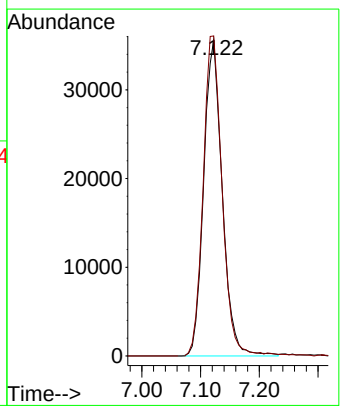
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

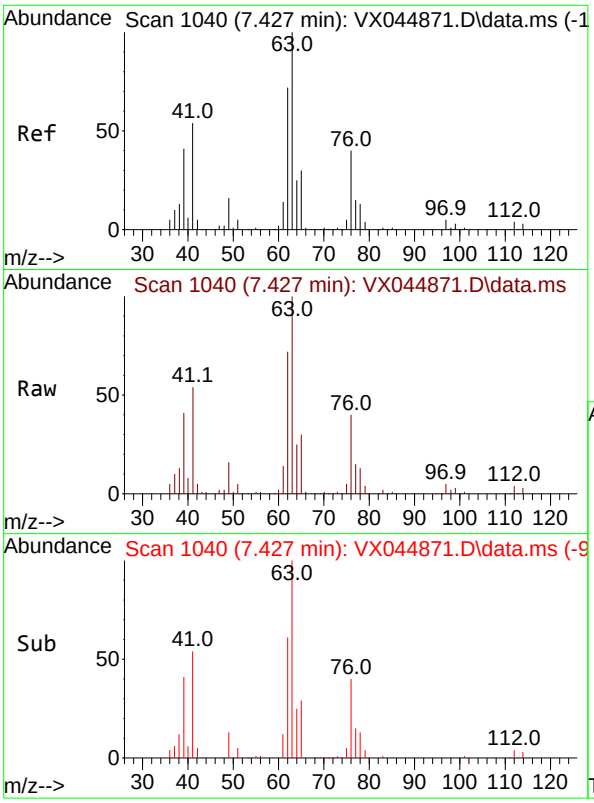


#44
Trichloroethene
Concen: 50.020 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:130 Resp: 78274

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	202.4

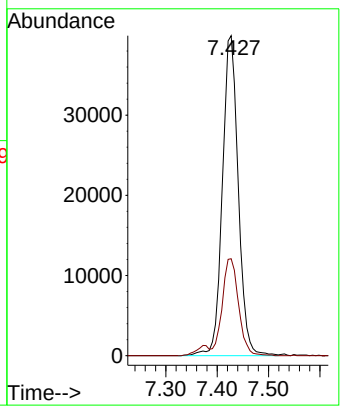




#45
1,2-Dichloropropane
Concen: 50.335 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 8573

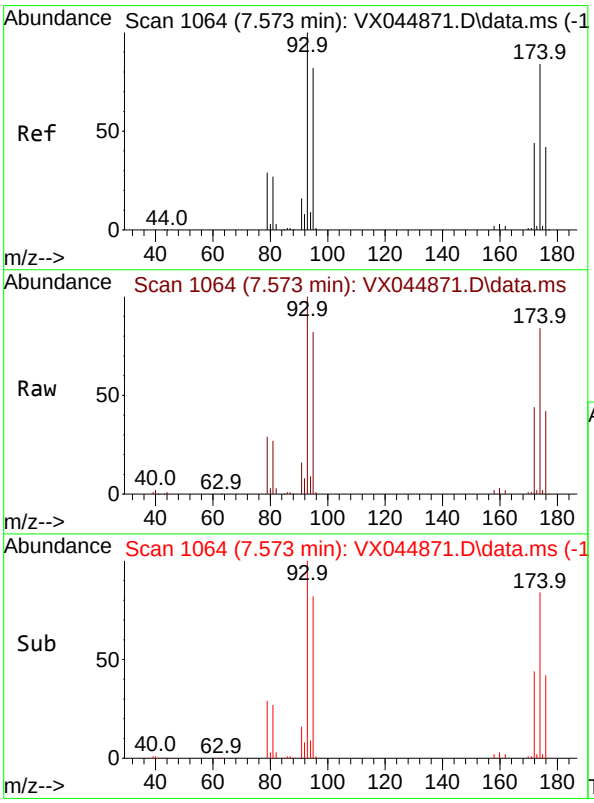
Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

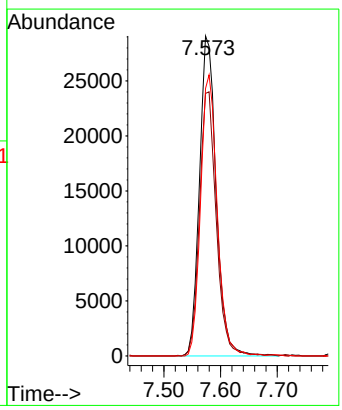
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

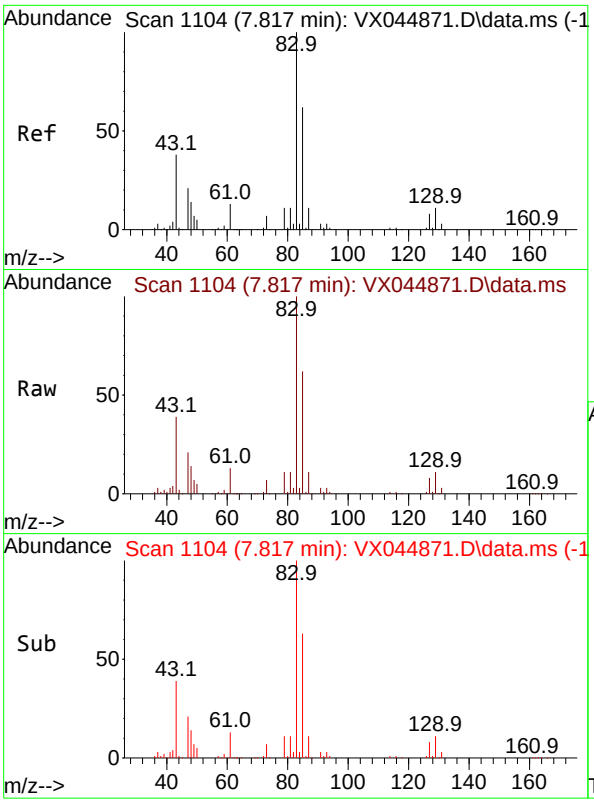


#46
Dibromomethane
Concen: 50.479 ug/l
RT: 7.573 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 93 Resp: 59625

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.4
174	87.4	69.9	104.9

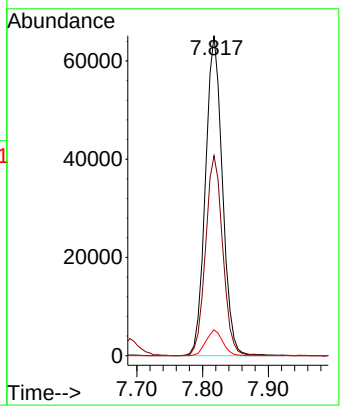




#47
Bromodichloromethane
Concen: 51.108 ug/l
RT: 7.817 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 11689

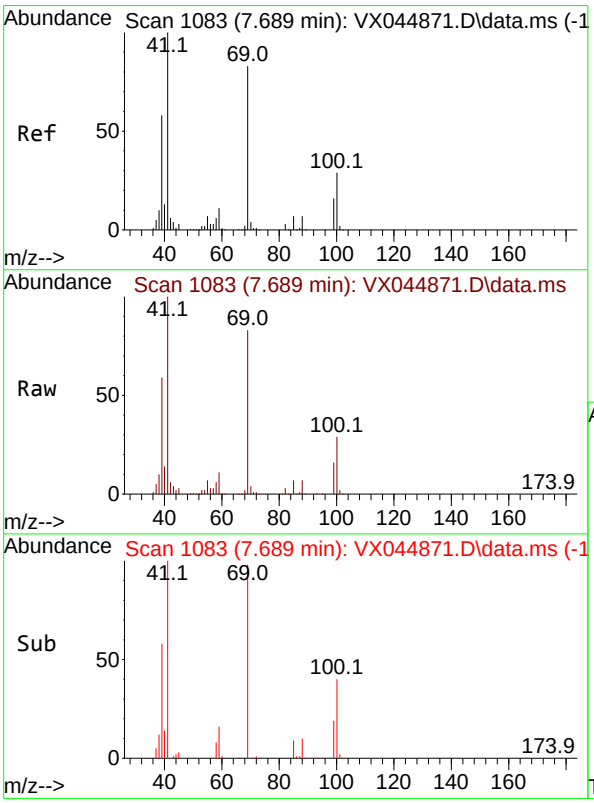
Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

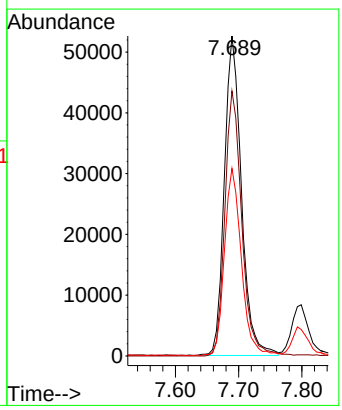
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

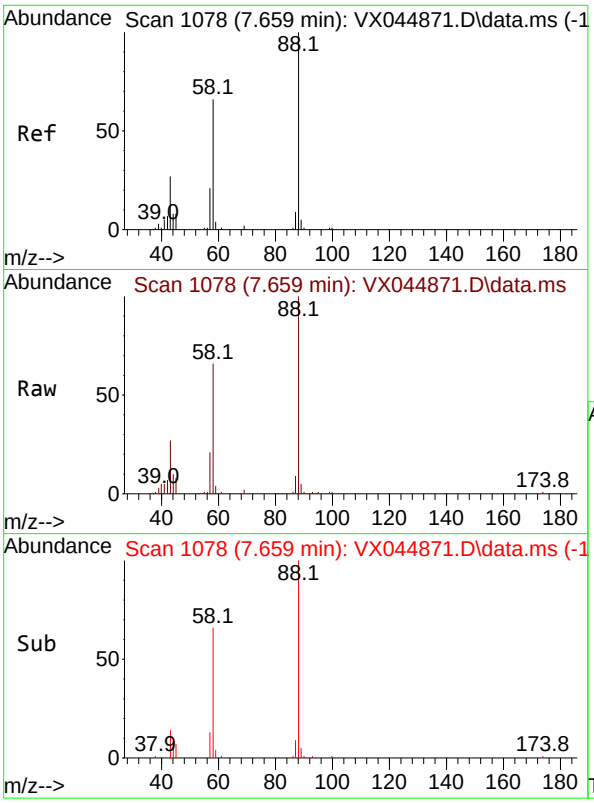


#48
Methyl methacrylate
Concen: 53.057 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 98519

Ion	Ratio	Lower	Upper
41	100		
69	82.3	65.8	98.8
39	58.0	46.4	69.6

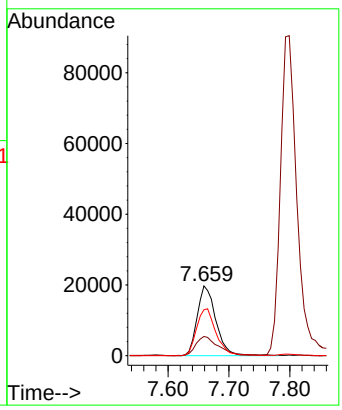




#49
1,4-Dioxane
Concen: 1056.618 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 88 Resp: 4209

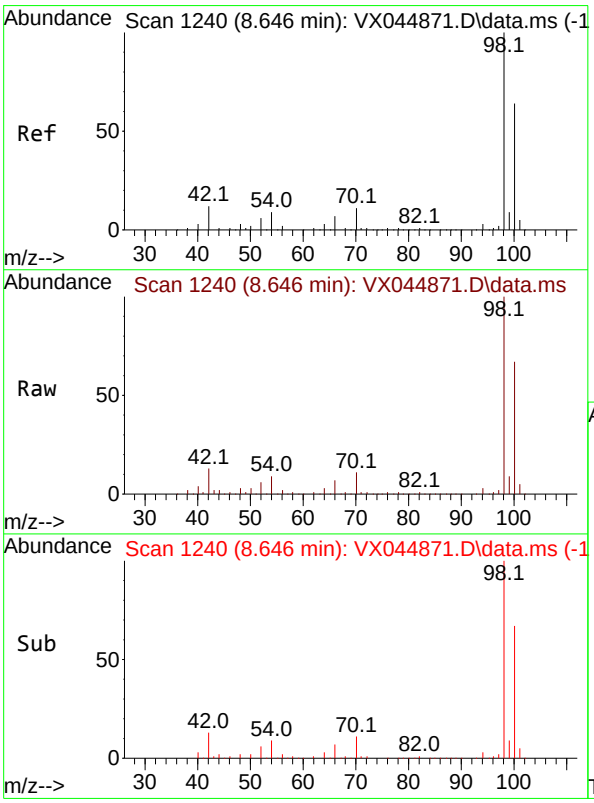
Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.6	39.8
58	69.9	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

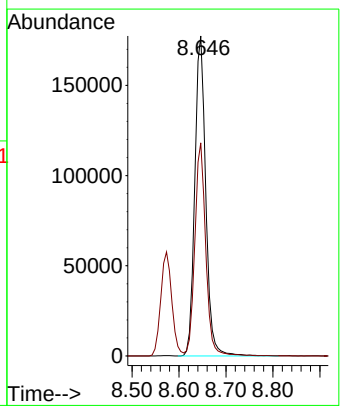
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

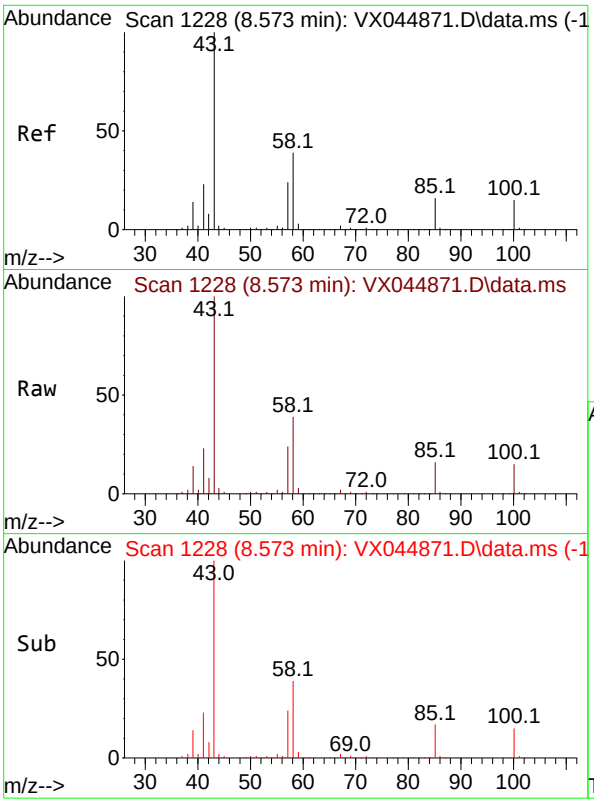


#50
Toluene-d8
Concen: 50.392 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 98 Resp: 289575

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1

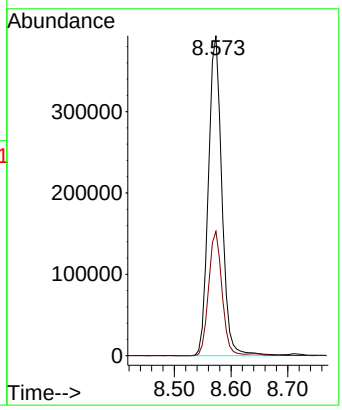




#51
4-Methyl-2-Pentanone
Concen: 270.364 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 64728

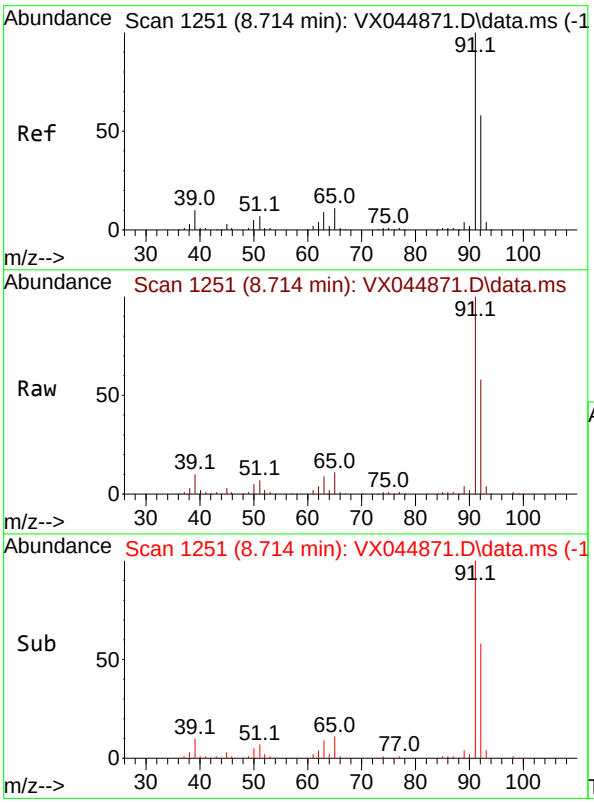
Ion	Ratio	Lower	Upper
43	100		
58	38.5	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

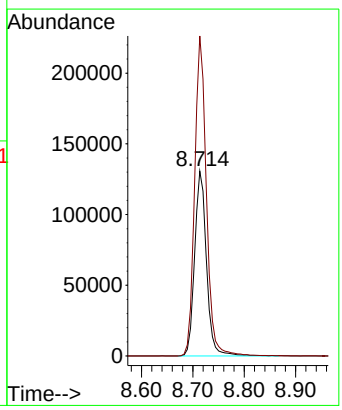
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

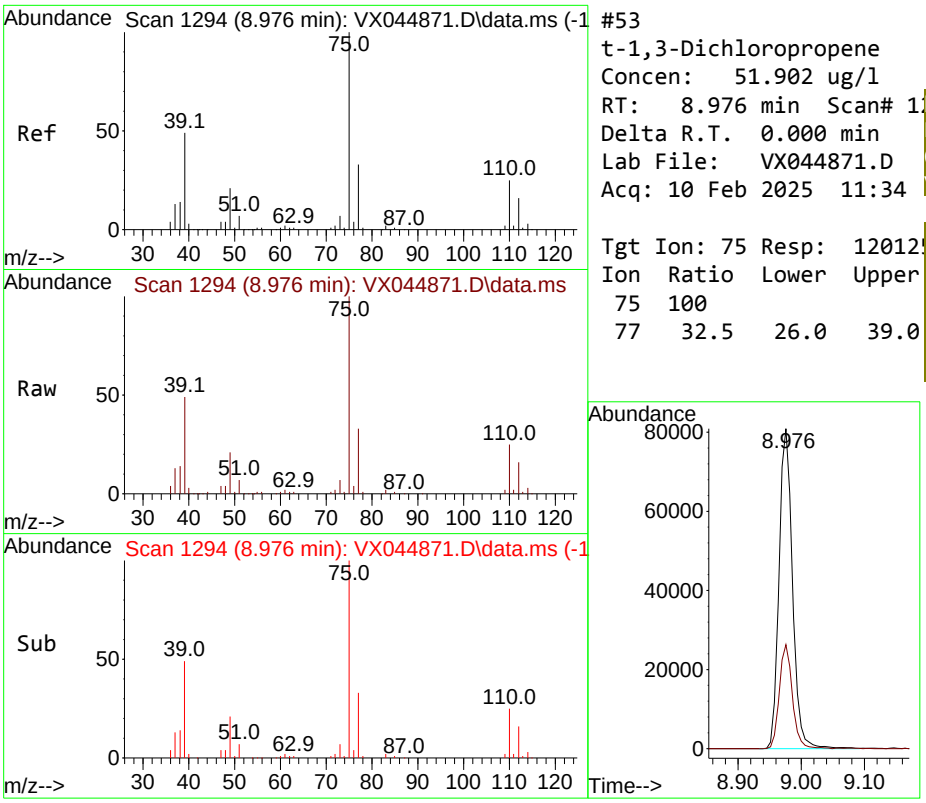


#52
Toluene
Concen: 51.507 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 92 Resp: 210007

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.4	206.2





#53
t-1,3-Dichloropropene
Concen: 51.902 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

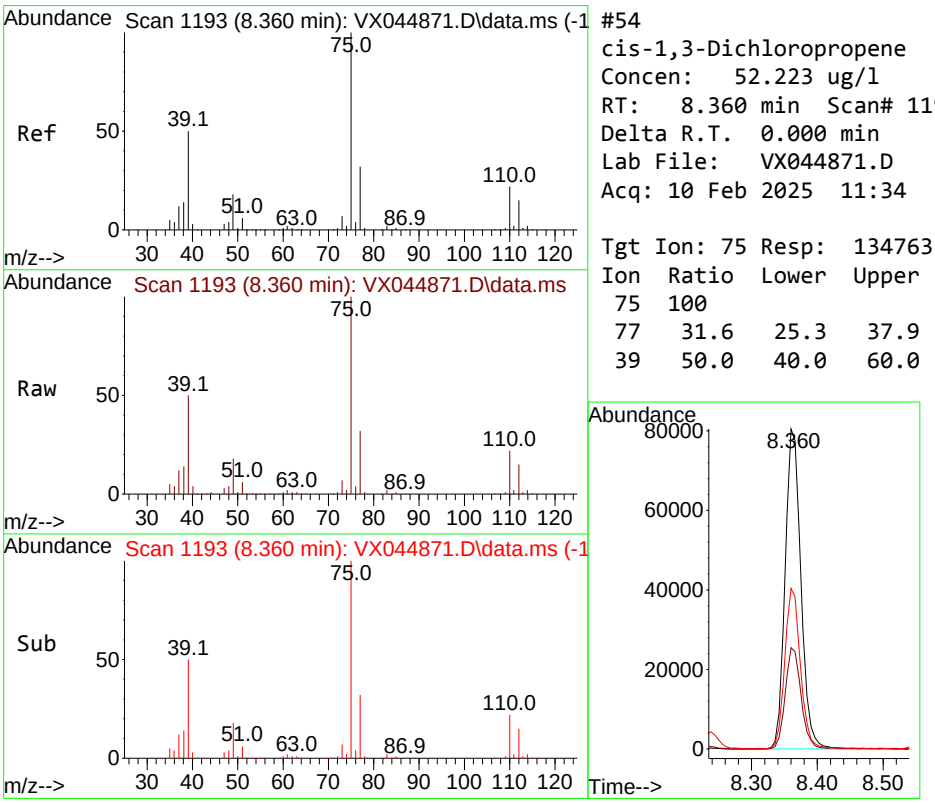
Tgt Ion: 75 Resp: 12012

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

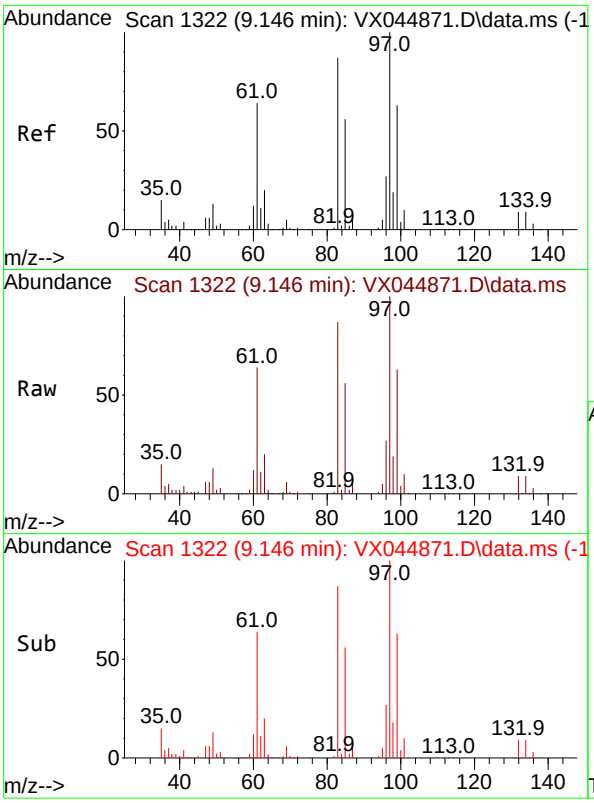
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#54
cis-1,3-Dichloropropene
Concen: 52.223 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 134763

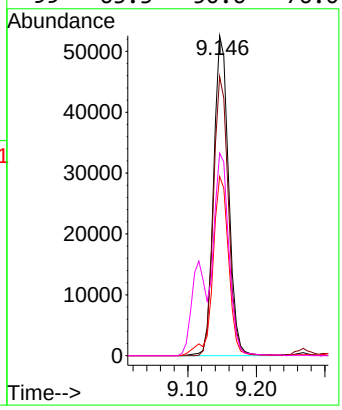
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.3	37.9
39	50.0	40.0	60.0



#55
1,1,2-Trichloroethane
Concen: 50.876 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 97 Resp: 7974

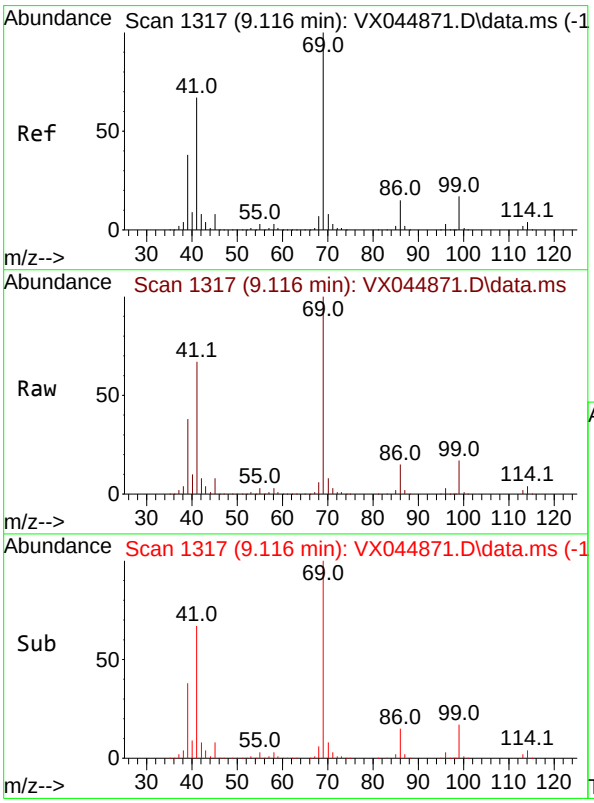
Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.8	104.6
85	56.0	44.8	67.2
99	63.3	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

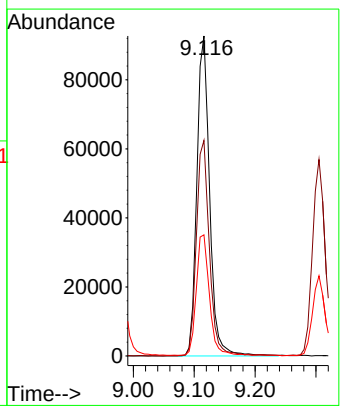
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

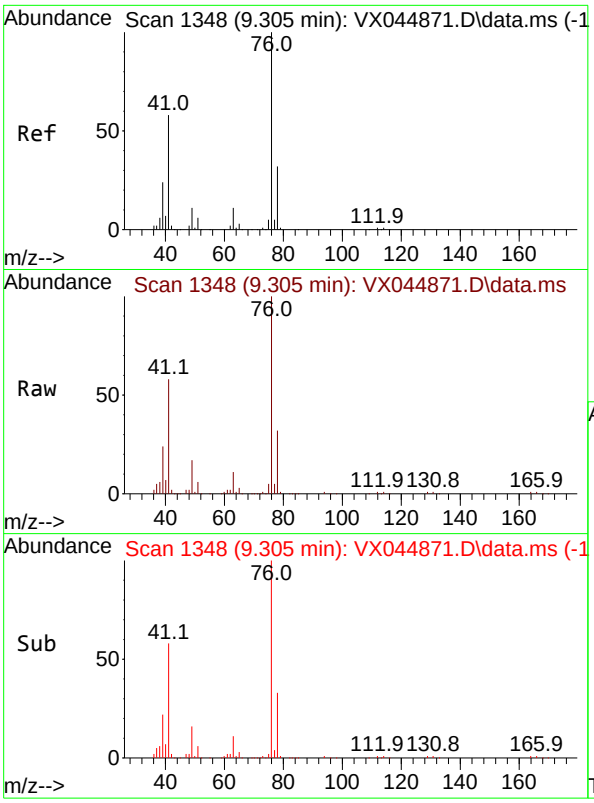


#56
Ethyl methacrylate
Concen: 53.319 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 69 Resp: 134975

Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.2	82.8
39	38.5	30.8	46.2

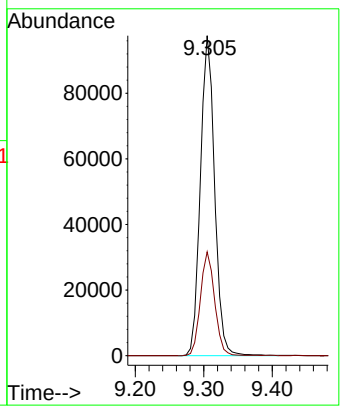




#57
1,3-Dichloropropane
Concen: 51.537 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 76 Resp: 14133

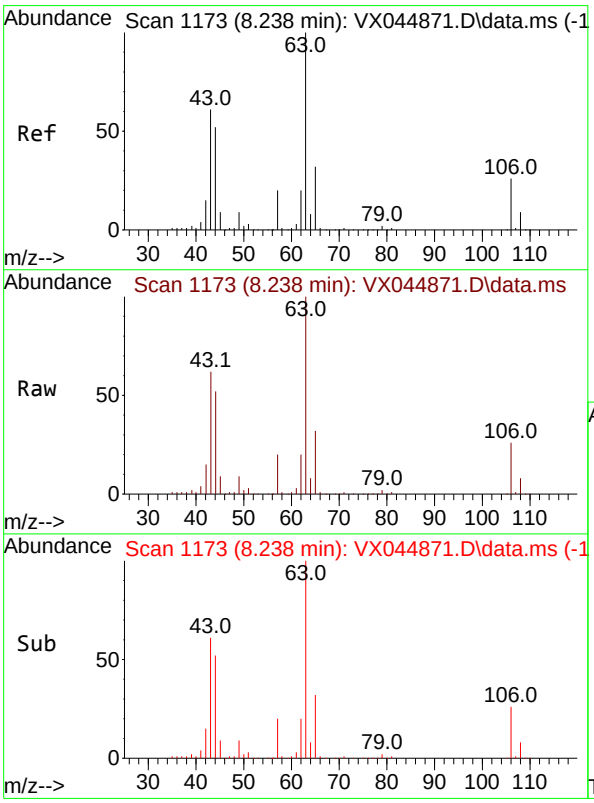
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

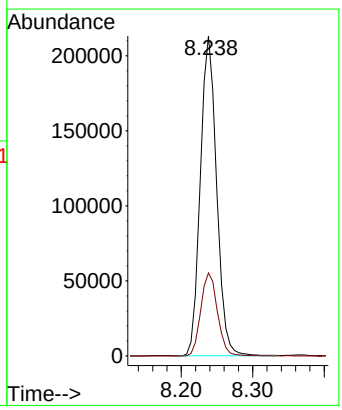
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

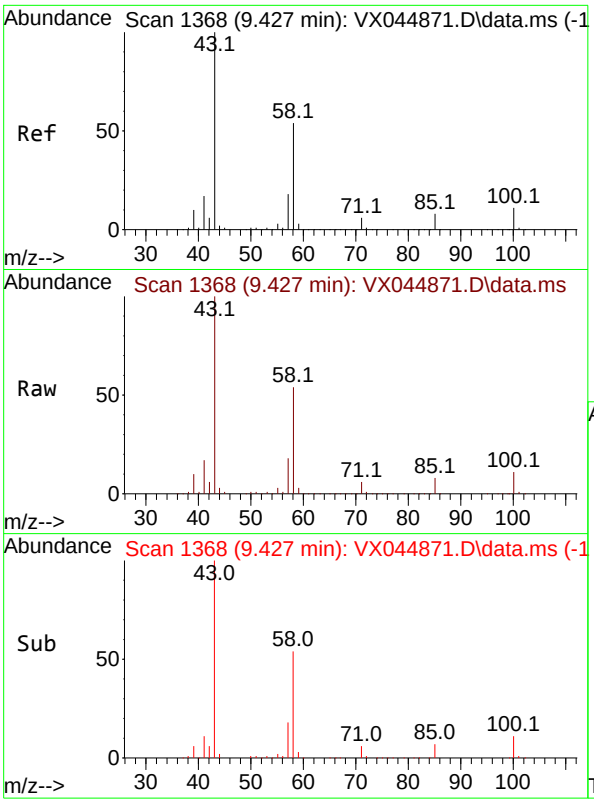


#58
2-Chloroethyl Vinyl ether
Concen: 270.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 336412

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9





#59
2-Hexanone
Concen: 273.800 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

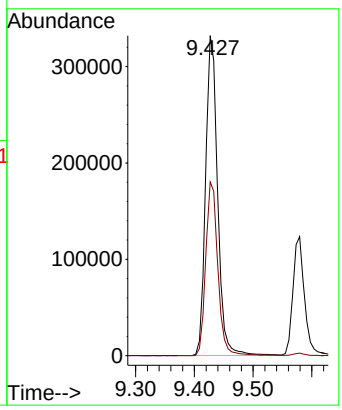
Tgt Ion: 43 Resp: 47230

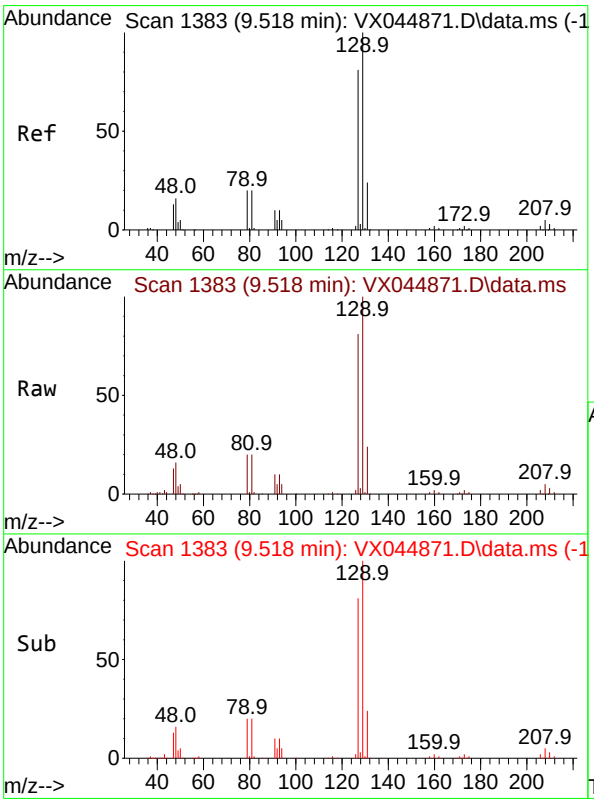
Ion	Ratio	Lower	Upper
43	100		
58	54.9	27.5	82.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

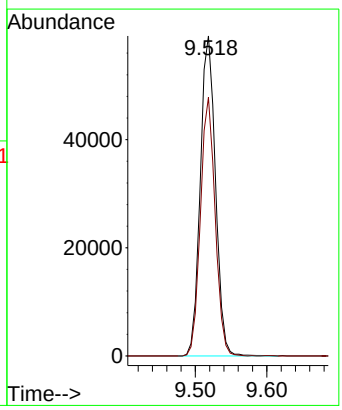


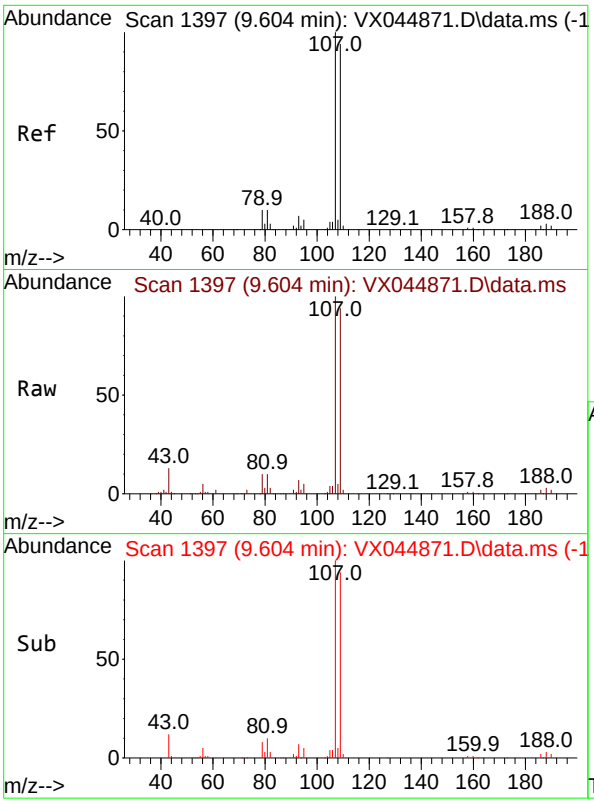


#60
Dibromochloromethane
Concen: 52.045 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:129 Resp: 87240

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3

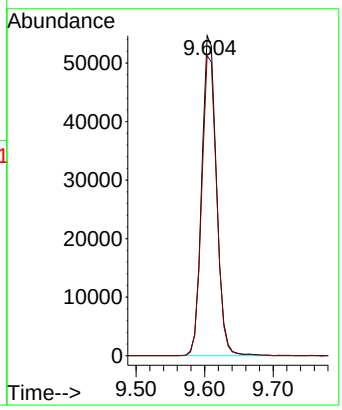




#61
1,2-Dibromoethane
Concen: 51.564 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:107 Resp: 8191

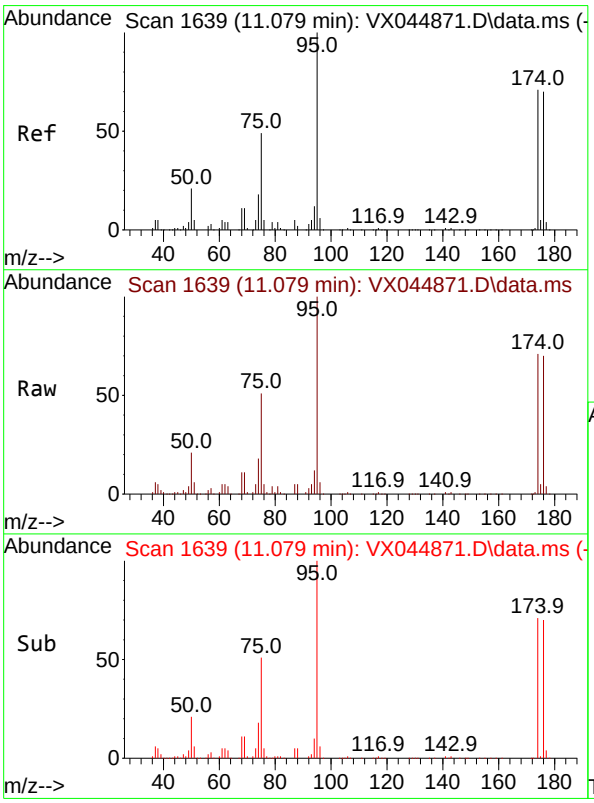
Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

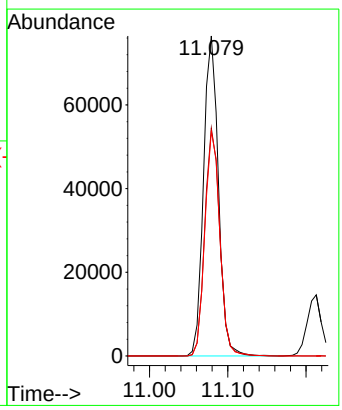
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

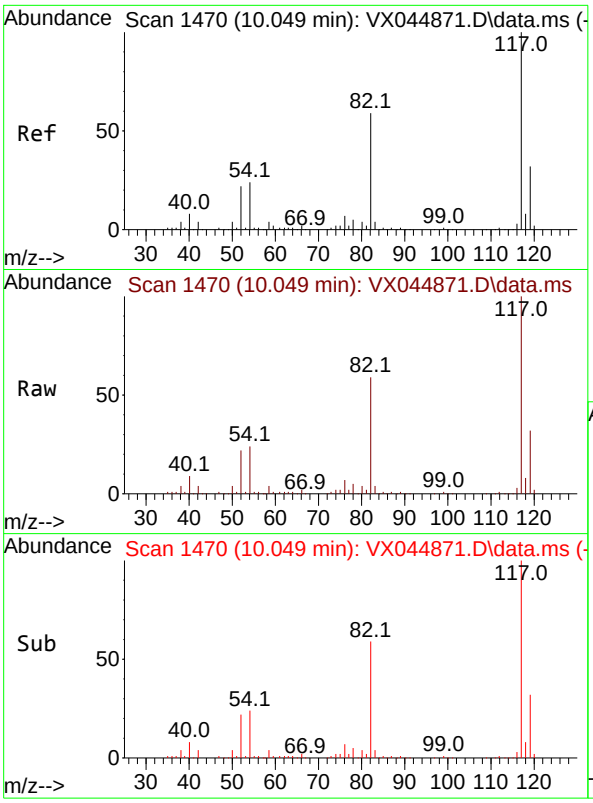


#62
4-Bromofluorobenzene
Concen: 52.031 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 95 Resp: 100798

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	142.6
176	70.8	0.0	141.6

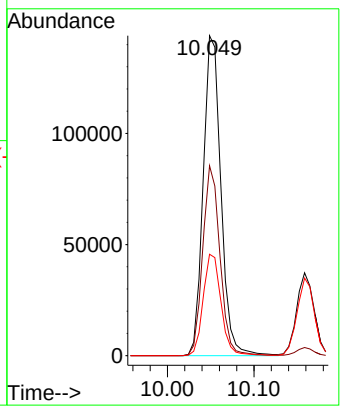




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 20475

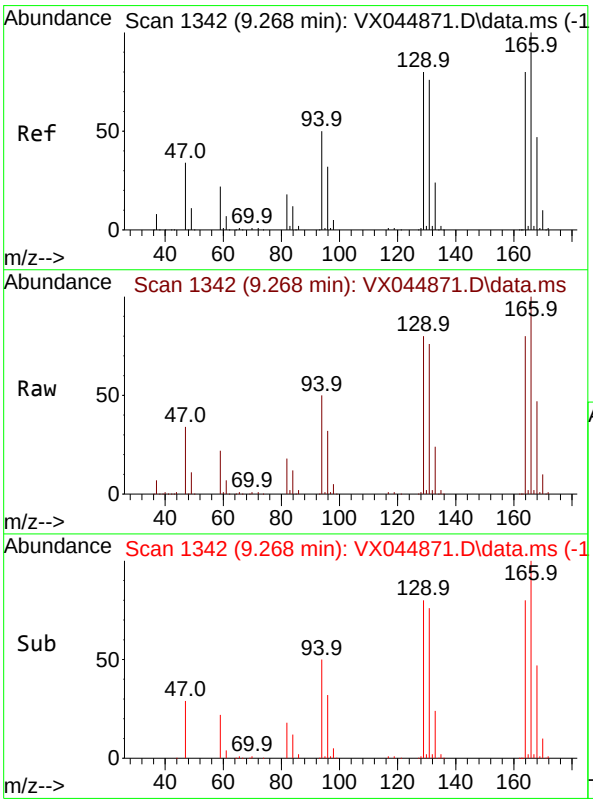
Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	31.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

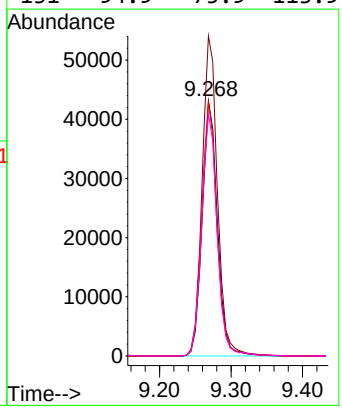
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

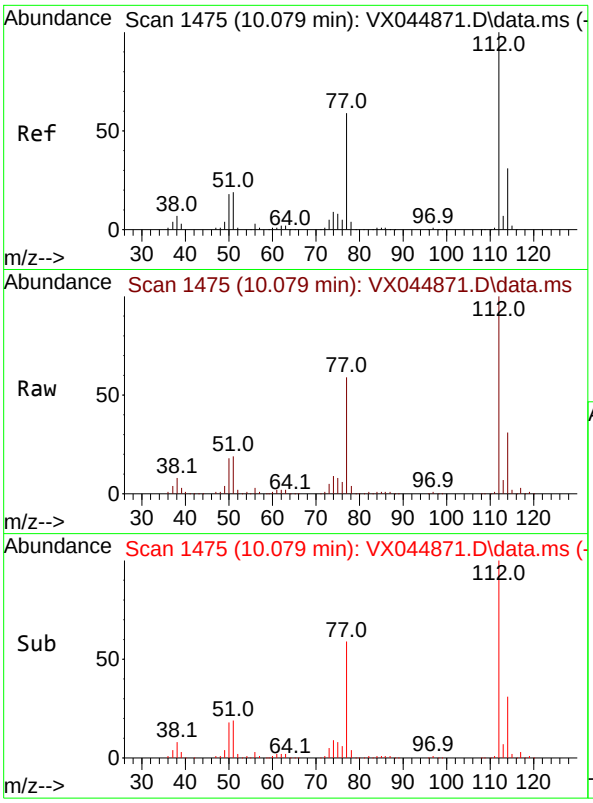


#64
Tetrachloroethene
Concen: 49.206 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:164 Resp: 63537

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.9	79.9	119.9
131	94.9	75.9	113.9

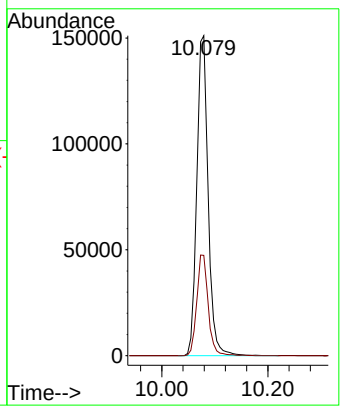




#65
Chlorobenzene
Concen: 51.005 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:112 Resp: 22430

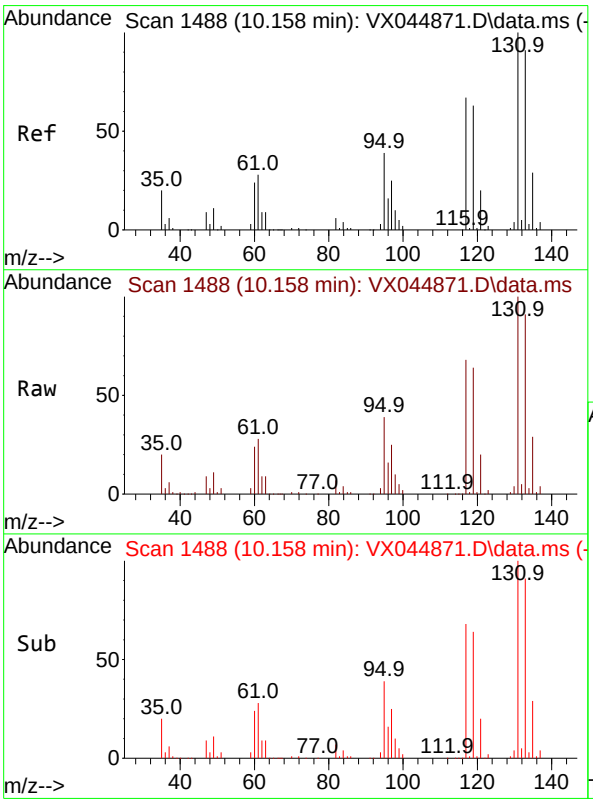
Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

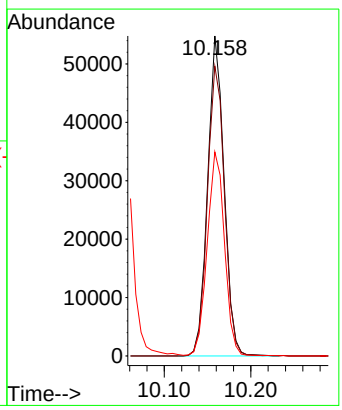
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

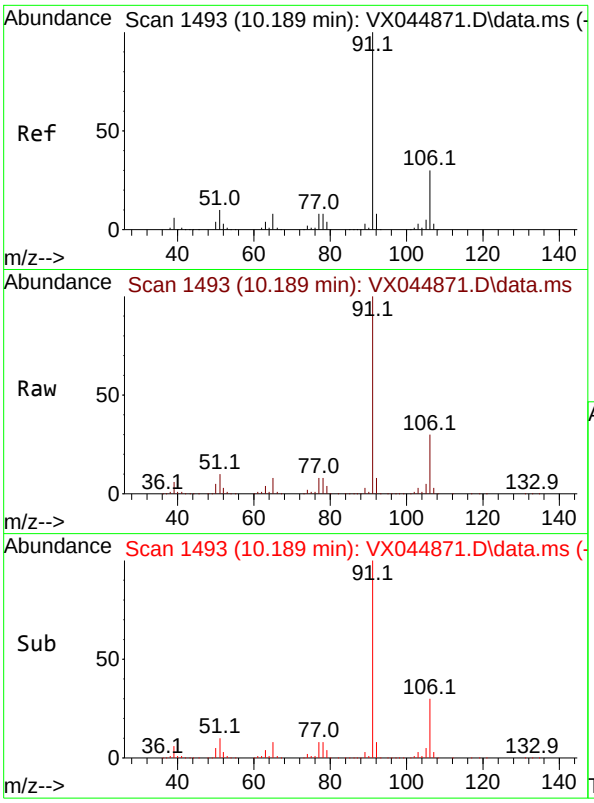


#66
1,1,1,2-Tetrachloroethane
Concen: 51.203 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:131 Resp: 72478

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.1	141.3
119	67.1	33.6	100.6

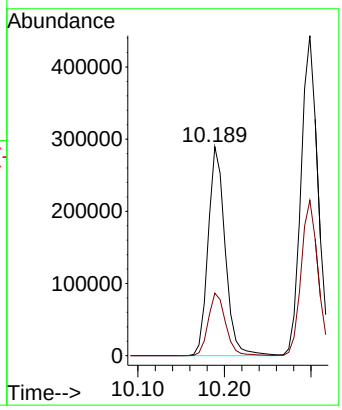




#67
Ethyl Benzene
Concen: 51.061 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 39626

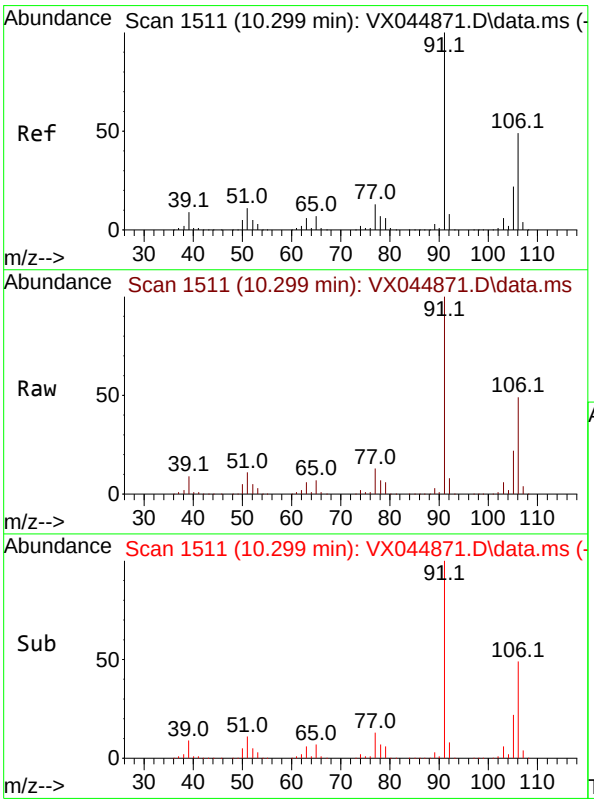
Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

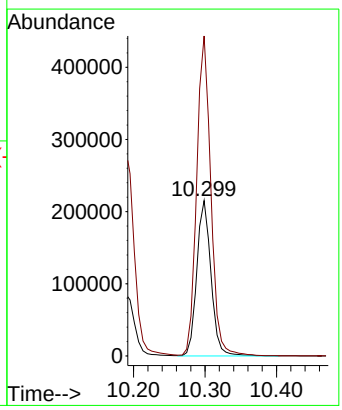
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

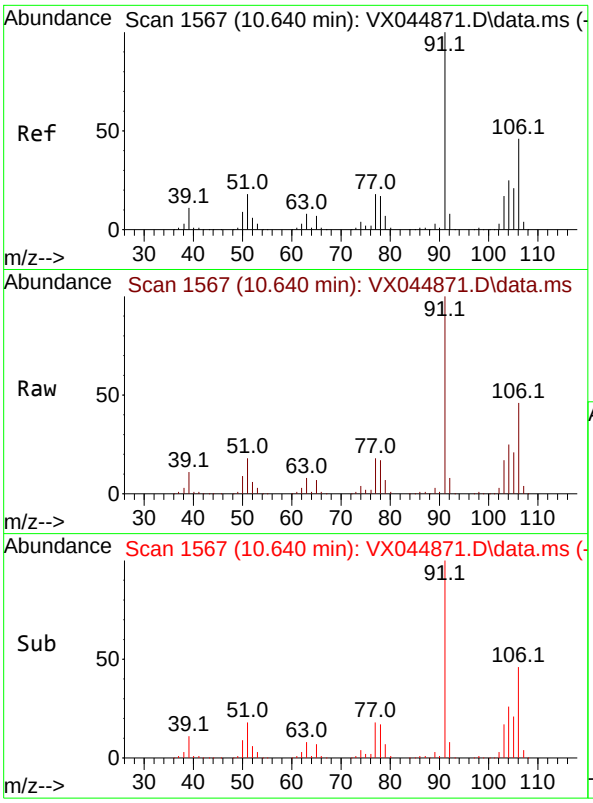


#68
m/p-Xylenes
Concen: 103.573 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:106 Resp: 296507

Ion	Ratio	Lower	Upper
106	100		
91	205.4	164.3	246.5

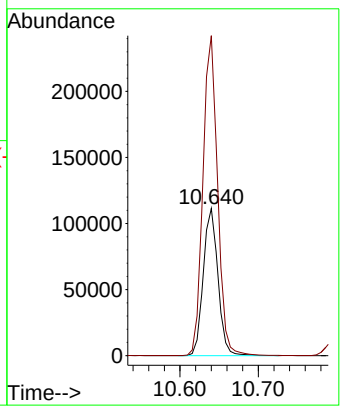




#69
o-Xylene
Concen: 50.409 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:106 Resp: 14480

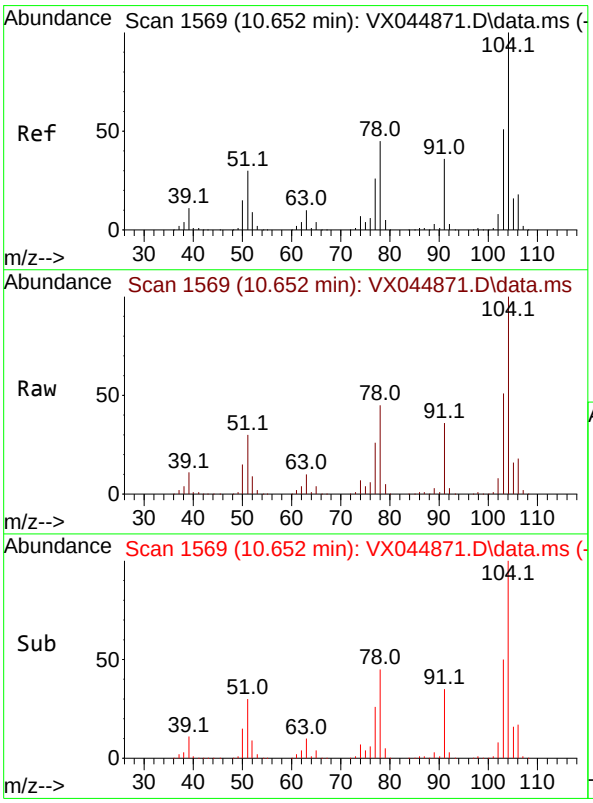
Ion	Ratio	Lower	Upper
106	100		
91	217.0	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

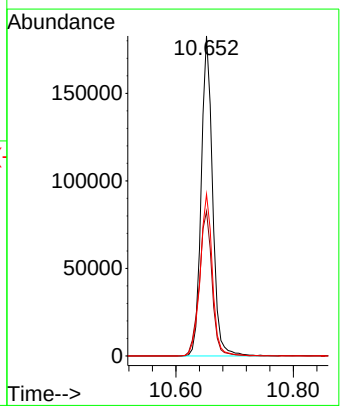
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

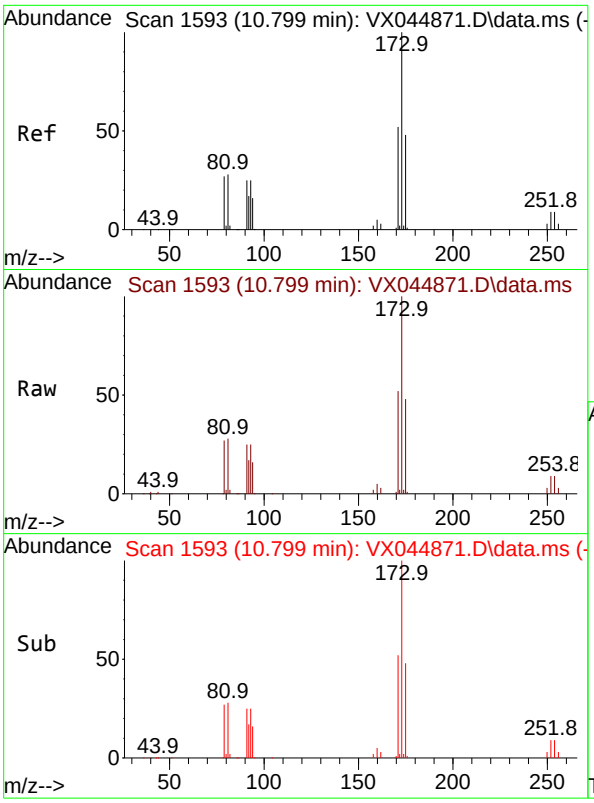


#70
Styrene
Concen: 53.051 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:104 Resp: 245518

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.5	60.7
103	54.5	43.6	65.4

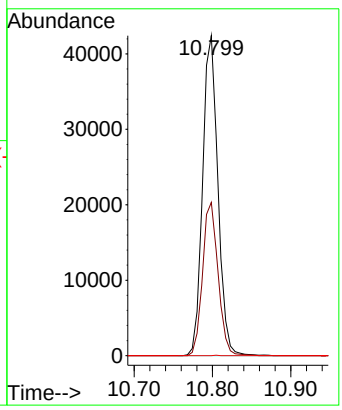




#71
Bromoform
Concen: 54.352 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:173 Resp: 5741

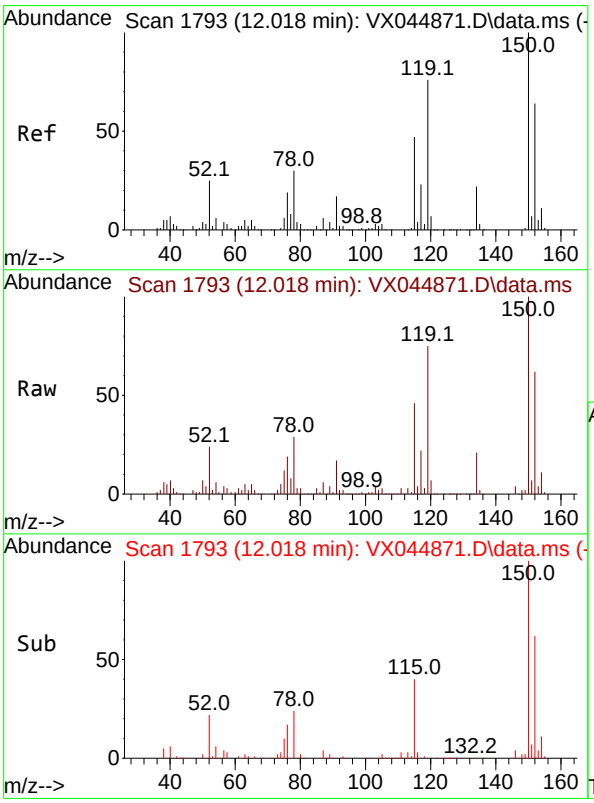
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

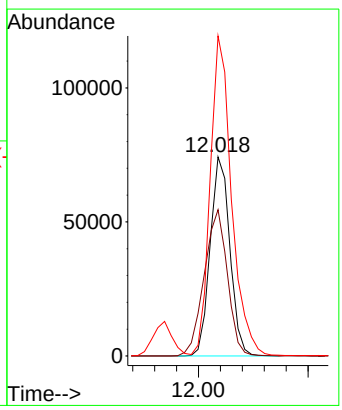
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

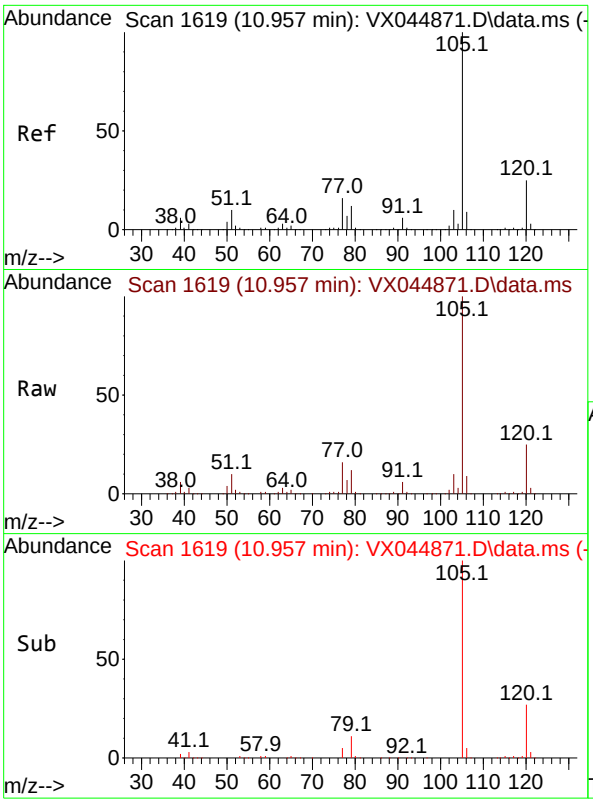


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:152 Resp: 92648

Ion	Ratio	Lower	Upper
152	100		
115	86.7	43.4	130.1
150	175.2	0.0	350.4

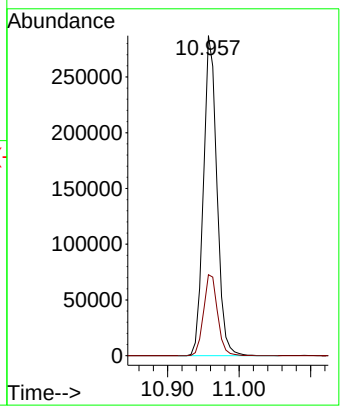




#73
Isopropylbenzene
Concen: 50.239 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 37477

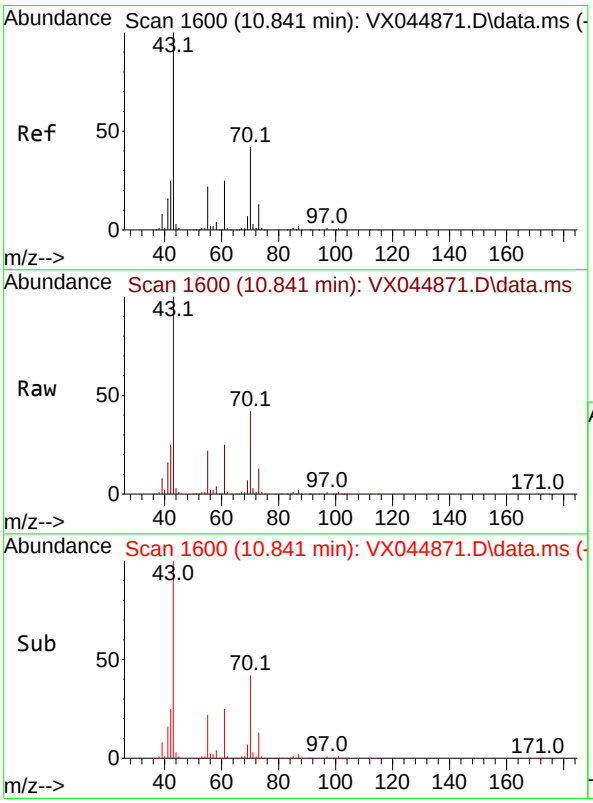
Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

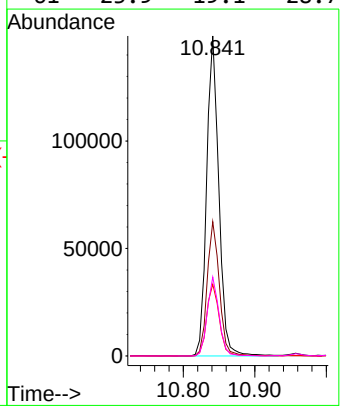
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

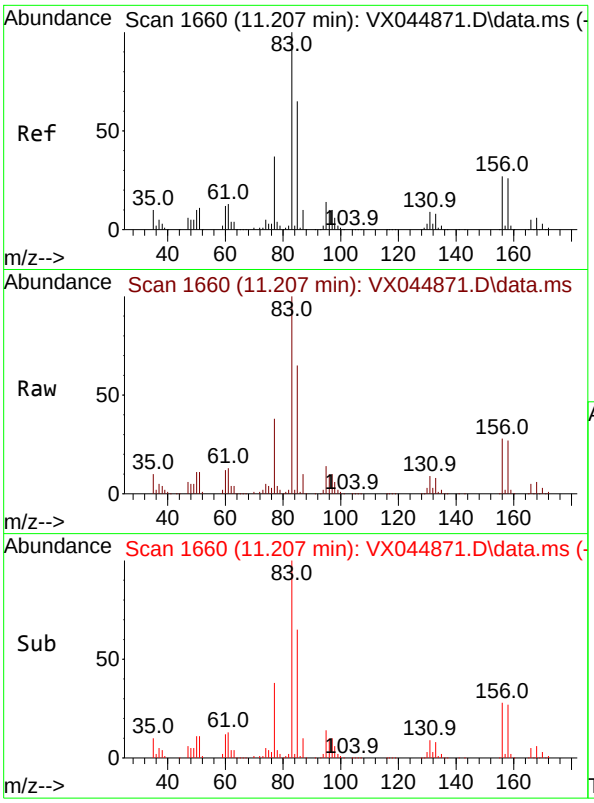


#74
N-amyl acetate
Concen: 52.189 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 176174

Ion	Ratio	Lower	Upper
43	100		
70	42.1	33.7	50.5
55	23.2	18.6	27.8
61	23.9	19.1	28.7

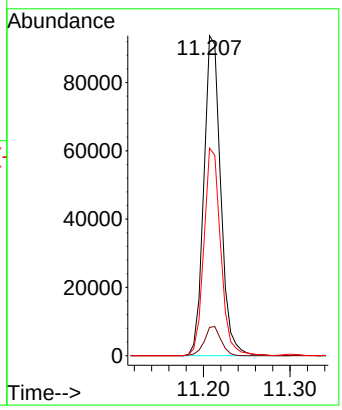




#75
1,1,2,2-Tetrachloroethane
Concen: 49.364 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 12654

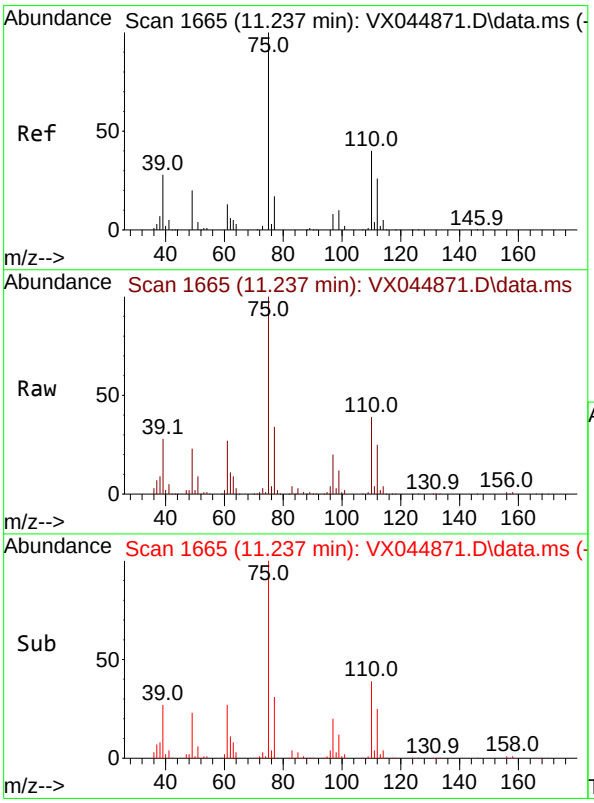
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.5
85	64.5	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

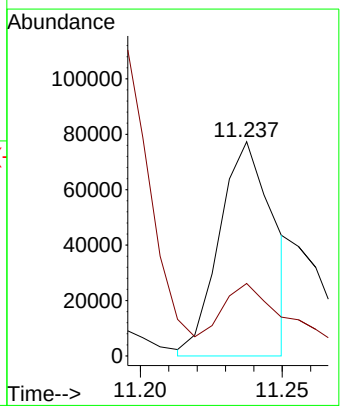
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

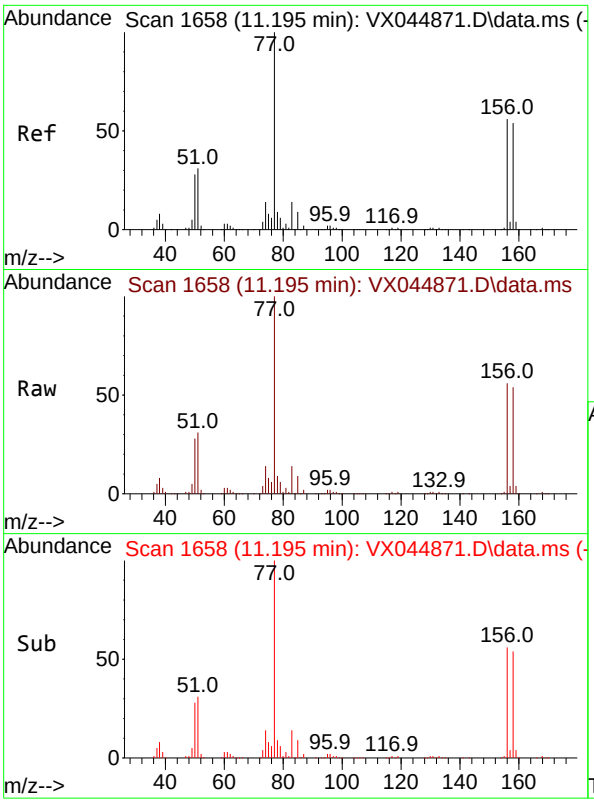


#76
1,2,3-Trichloropropane
Concen: 49.903 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 102508

Ion	Ratio	Lower	Upper
75	100		
77	43.8	21.9	65.7

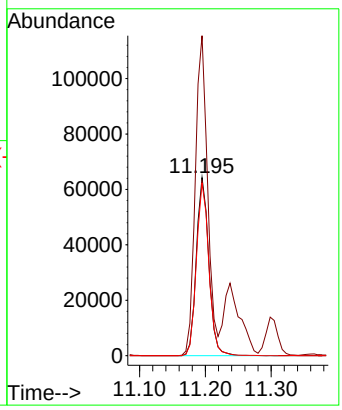




#77
Bromobenzene
Concen: 49.931 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:156 Resp: 8444

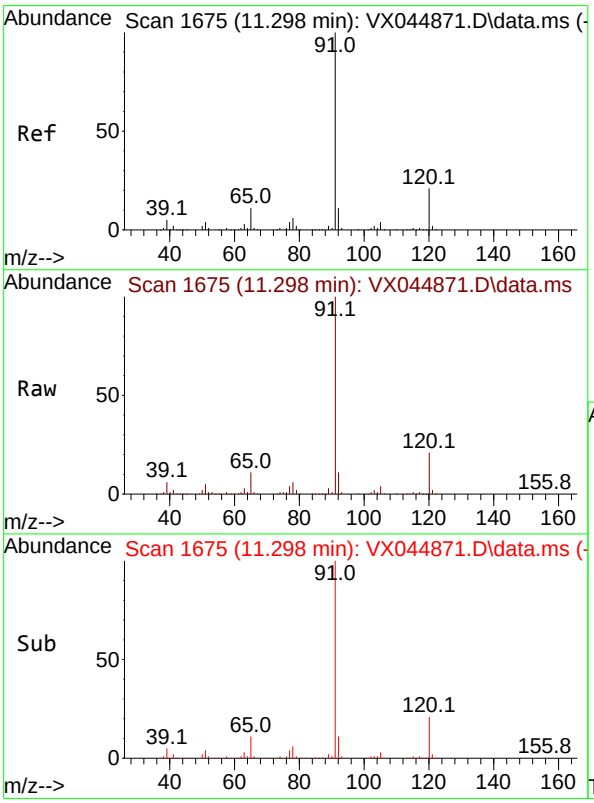
Ion	Ratio	Lower	Upper
156	100		
77	176.9	88.4	265.3
158	96.8	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

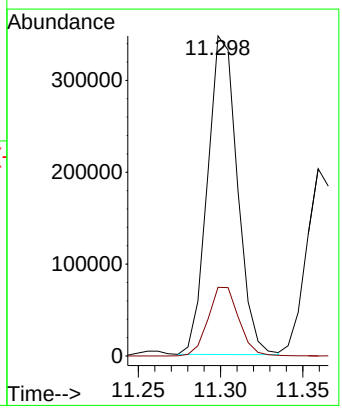
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

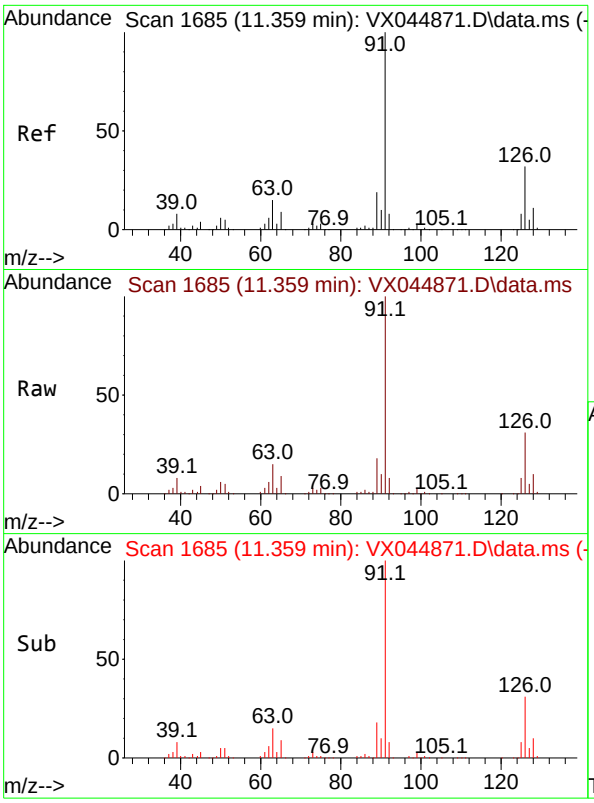


#78
n-propylbenzene
Concen: 50.818 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 437572

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3

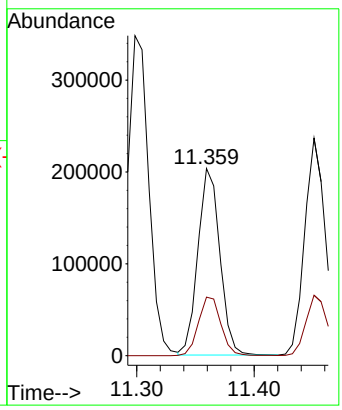




#79
2-Chlorotoluene
Concen: 49.749 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 26326

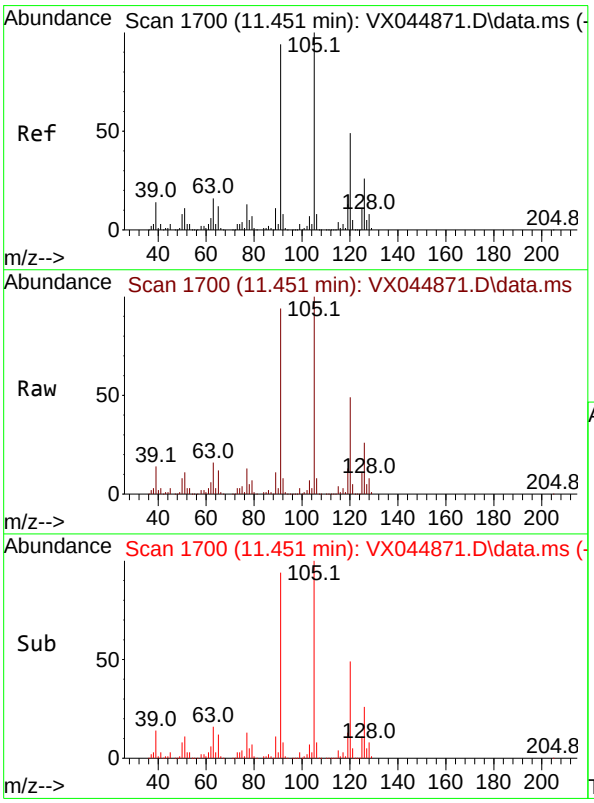
Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

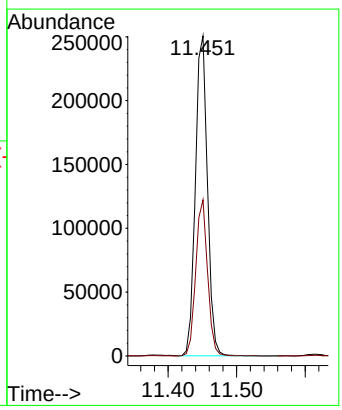
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

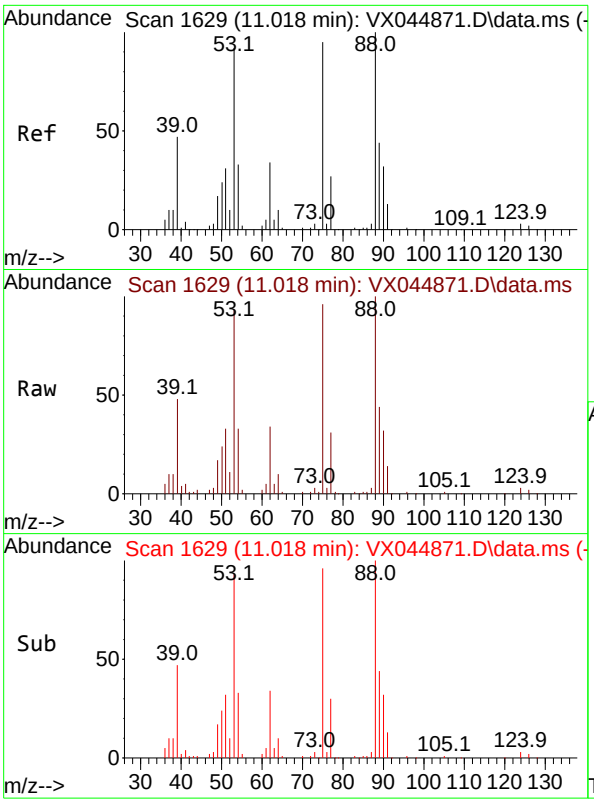


#80
1,3,5-Trimethylbenzene
Concen: 50.789 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 307465

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 50.701 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

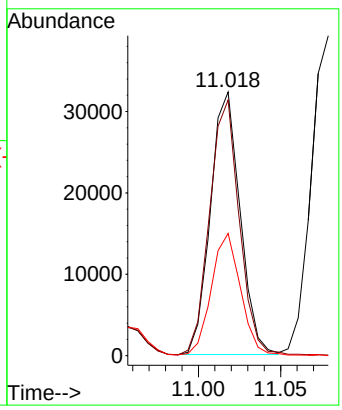
Tgt Ion: 75 Resp: 4048

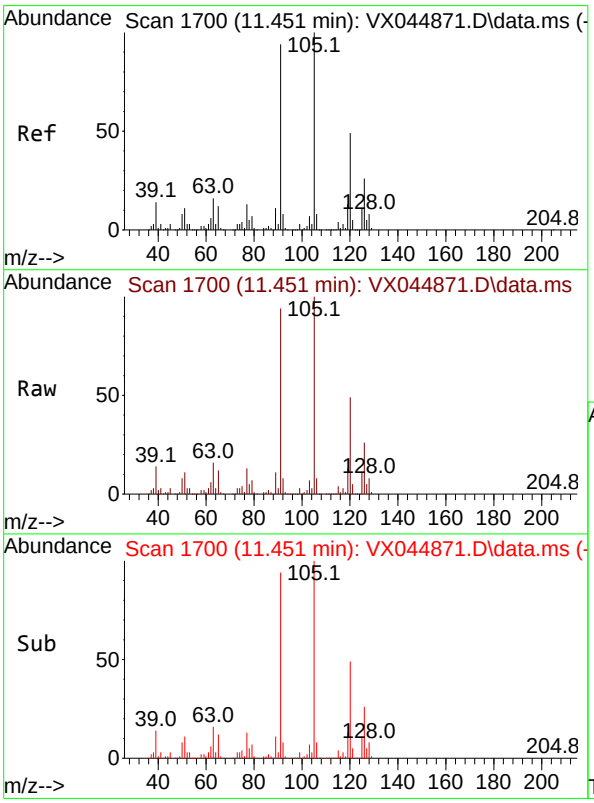
Ion	Ratio	Lower	Upper
75	100		
53	97.5	78.0	117.0
89	45.7	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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

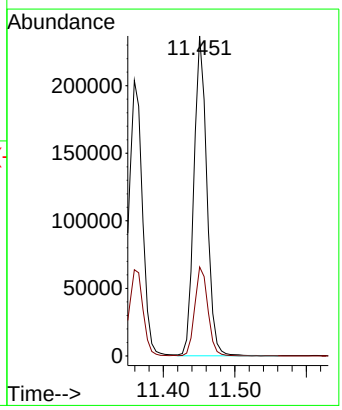


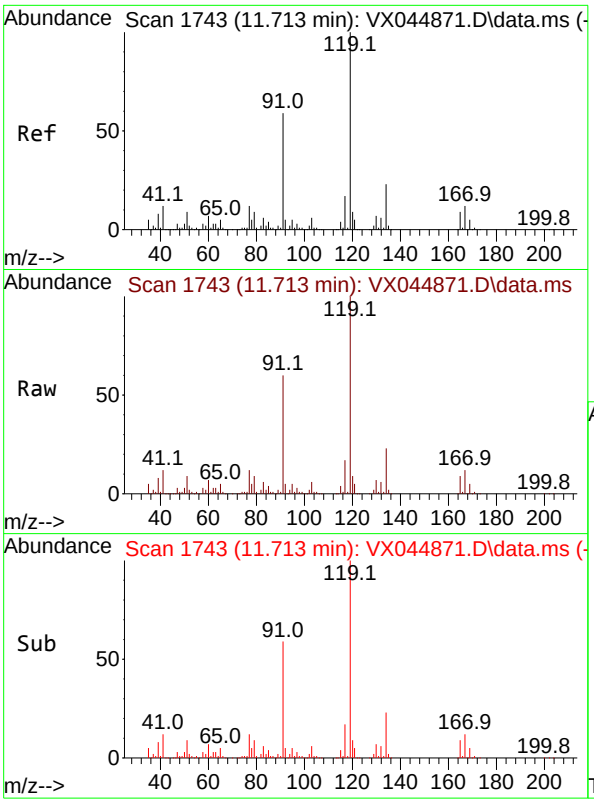


#82
4-Chlorotoluene
Concen: 50.531 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 295844

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6

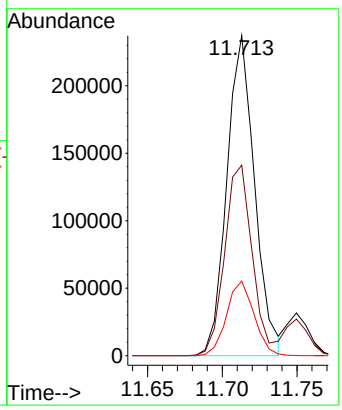




#83
tert-Butylbenzene
Concen: 50.102 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:119 Resp: 30683

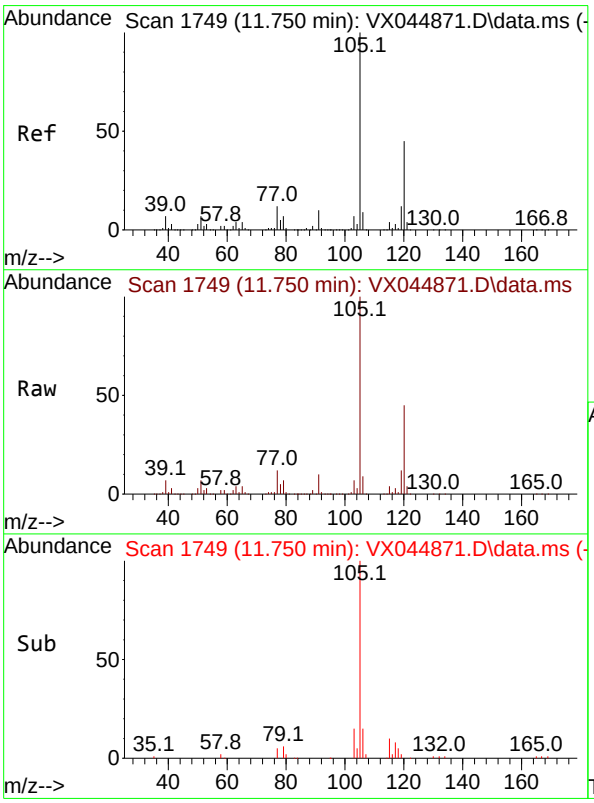
Ion	Ratio	Lower	Upper
119	100		
91	58.3	29.1	87.4
134	23.0	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

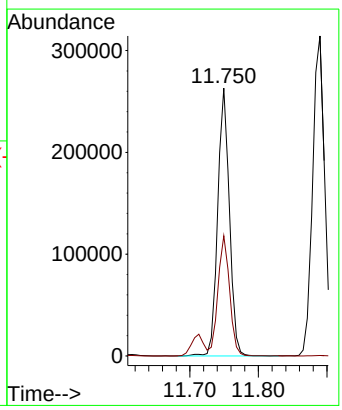
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

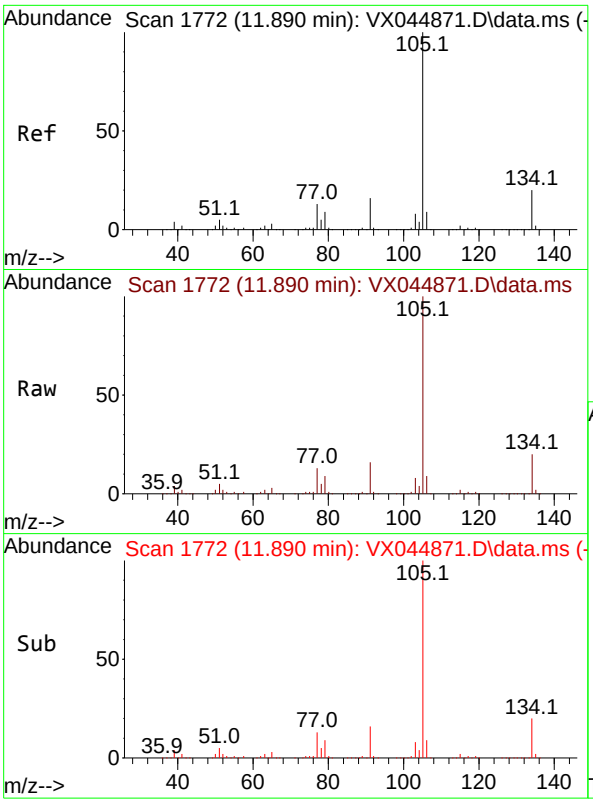


#84
1,2,4-Trimethylbenzene
Concen: 52.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 311205

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.0

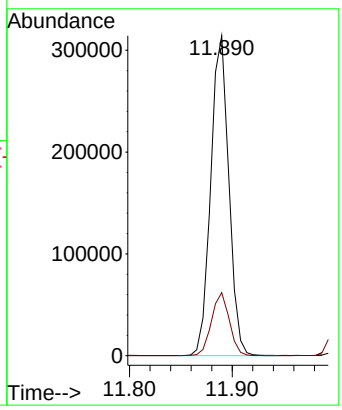




#85
sec-Butylbenzene
Concen: 50.657 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 38415

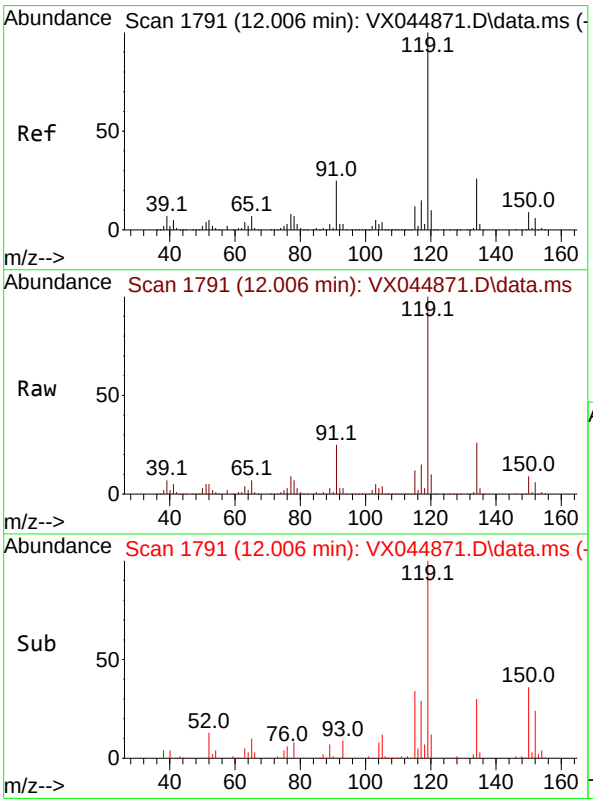
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

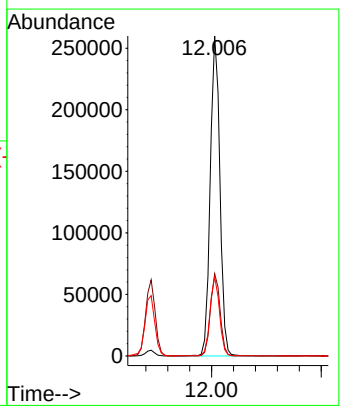
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

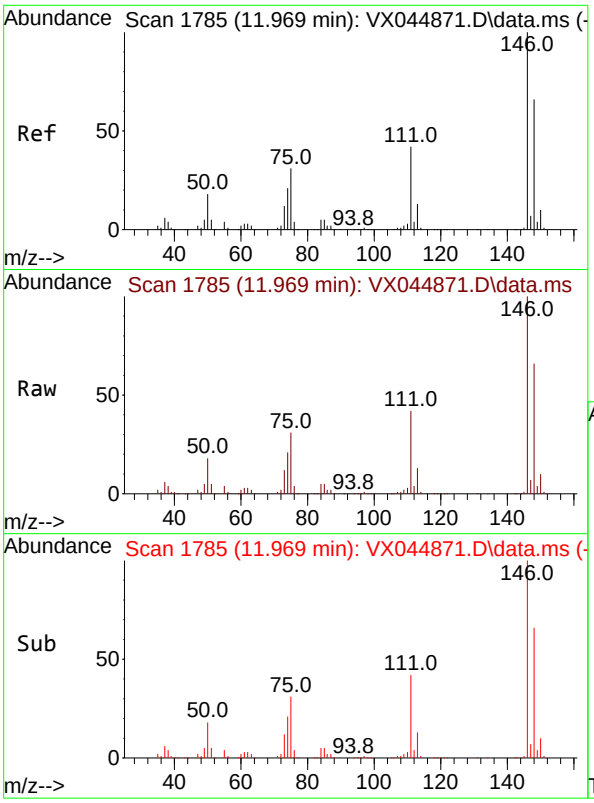


#86
p-Isopropyltoluene
Concen: 51.689 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:119 Resp: 315226

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	38.9
91	24.2	12.1	36.3

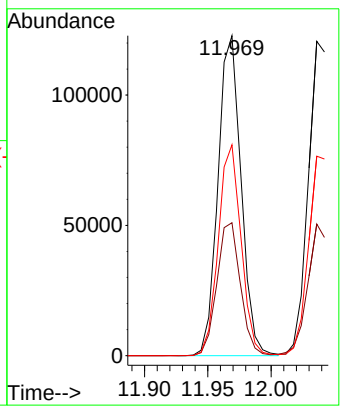




#87
1,3-Dichlorobenzene
Concen: 50.021 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 15557

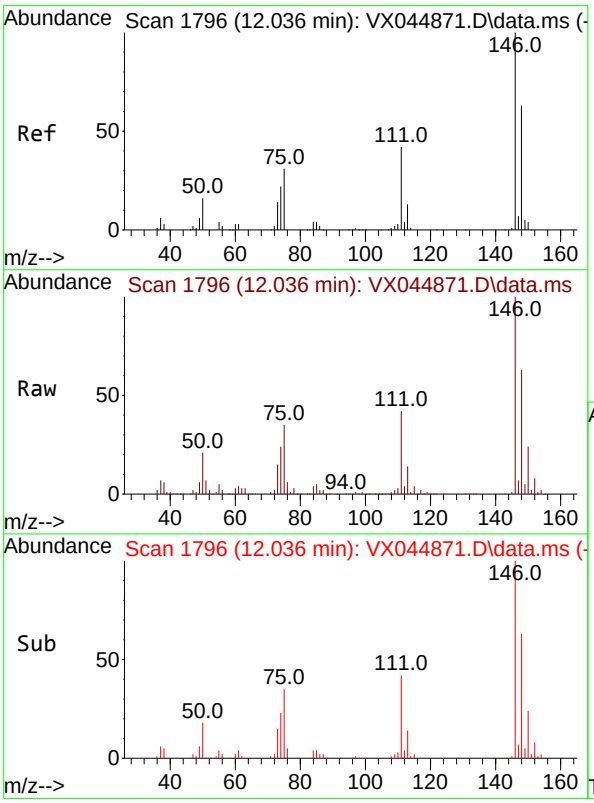
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.0	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

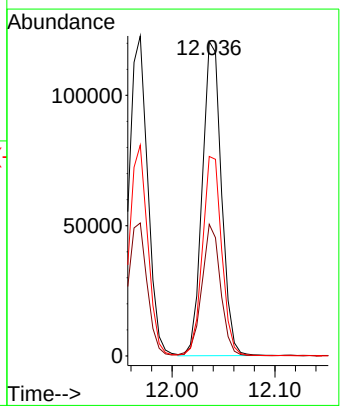
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

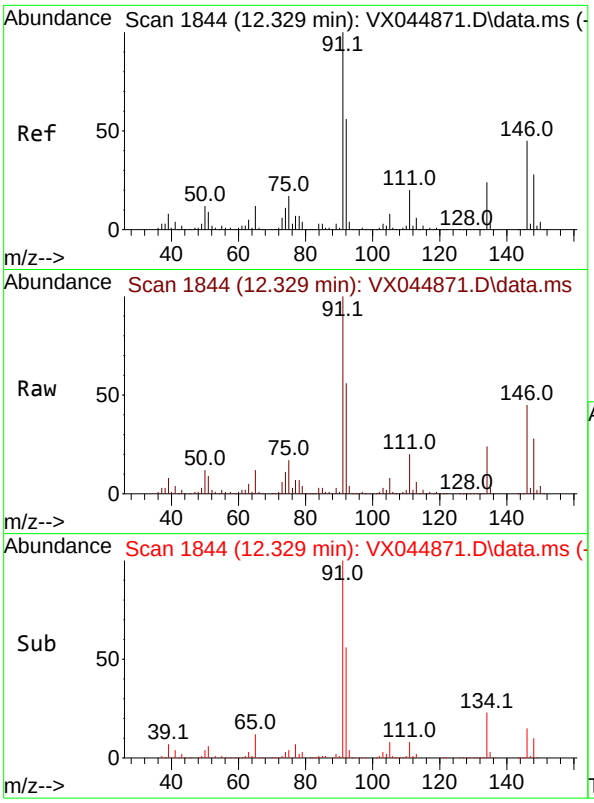


#88
1,4-Dichlorobenzene
Concen: 49.657 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 156162

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.4	61.3
148	64.0	32.0	96.0

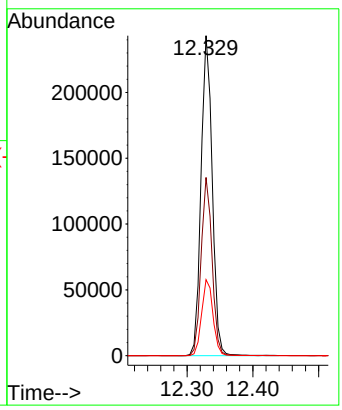




#89
n-Butylbenzene
Concen: 53.315 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 28764

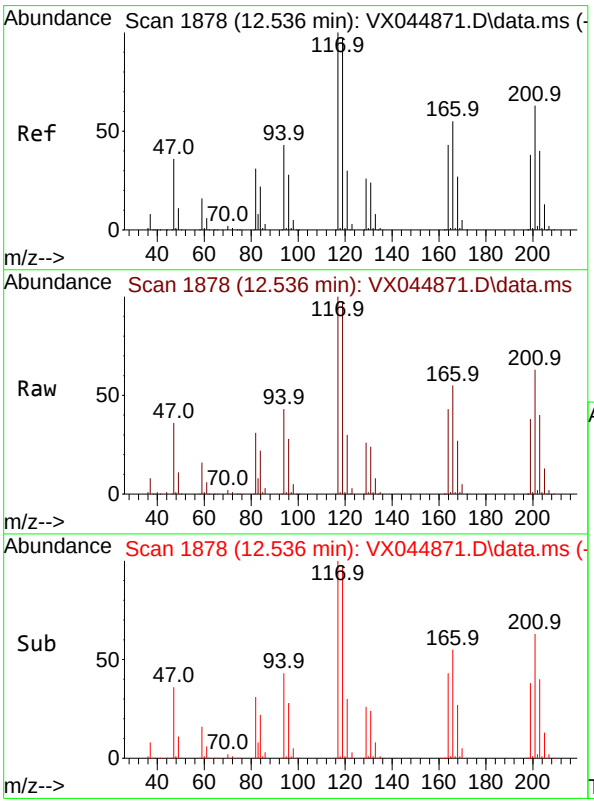
Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.2	81.6
134	24.2	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

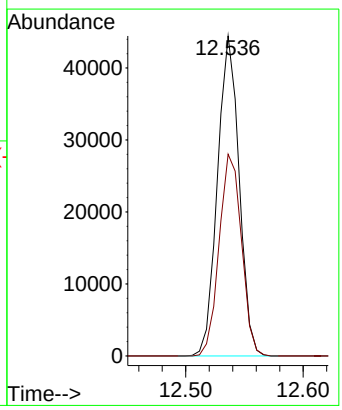
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

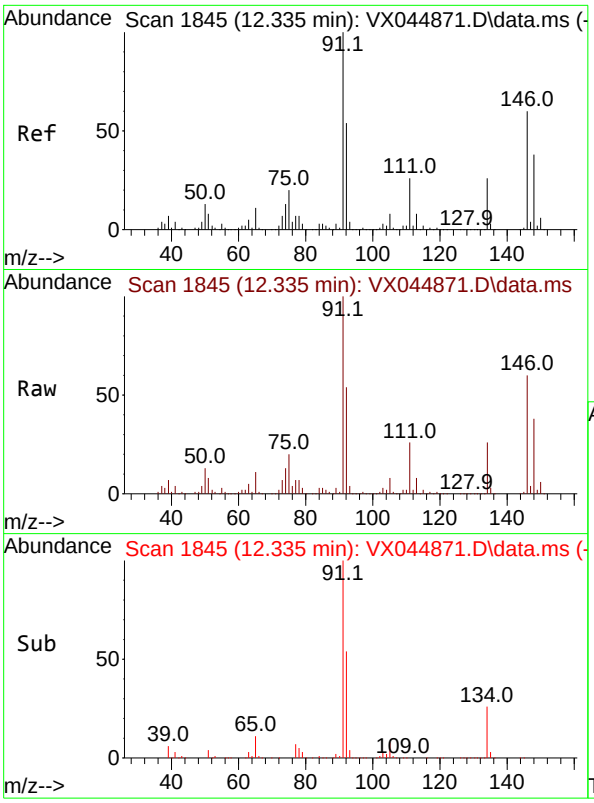


#90
Hexachloroethane
Concen: 49.874 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 56951

Ion	Ratio	Lower	Upper
117	100		
201	65.0	32.5	97.5

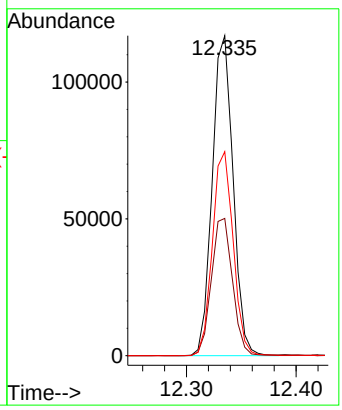




#91
1,2-Dichlorobenzene
Concen: 50.500 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 15436

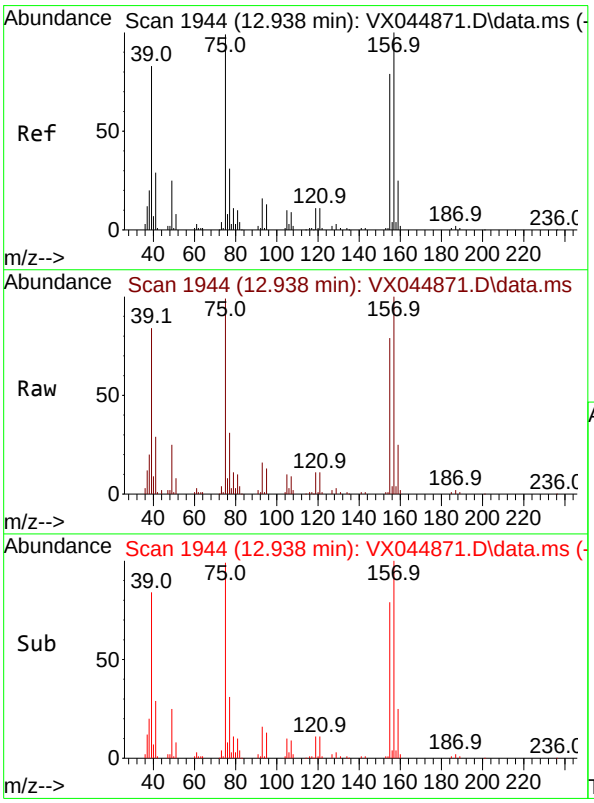
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.8	65.4
148	63.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

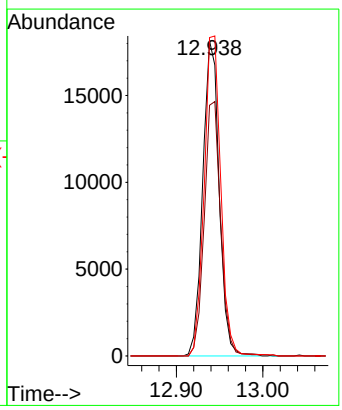
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

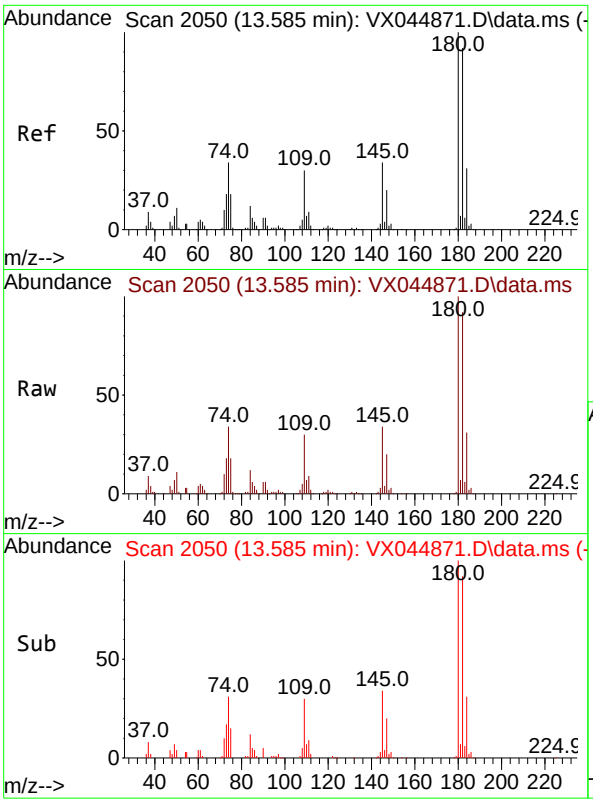


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.135 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 23924

Ion	Ratio	Lower	Upper
75	100		
155	80.9	40.5	121.4
157	102.9	51.4	154.3

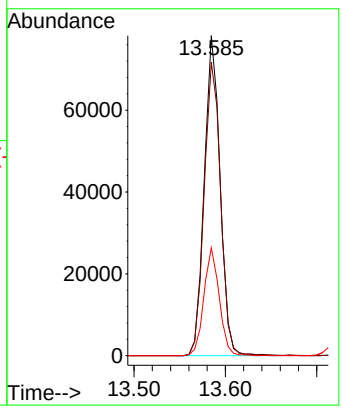




#93
1,2,4-Trichlorobenzene
Concen: 50.747 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:180 Resp: 9386

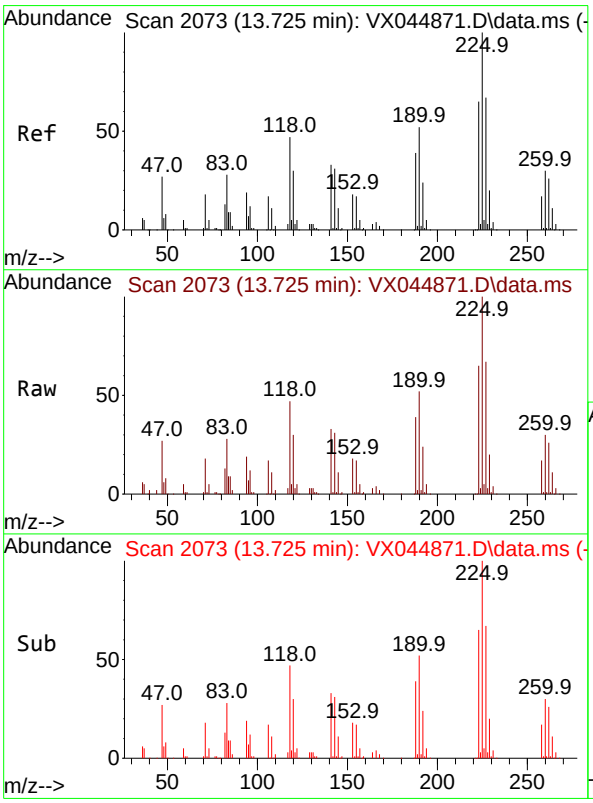
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

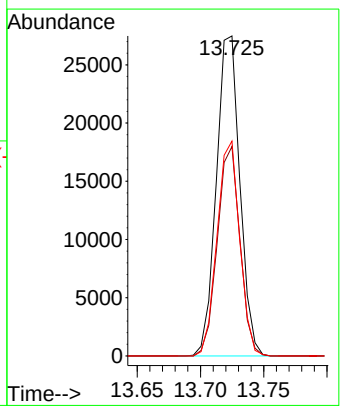
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

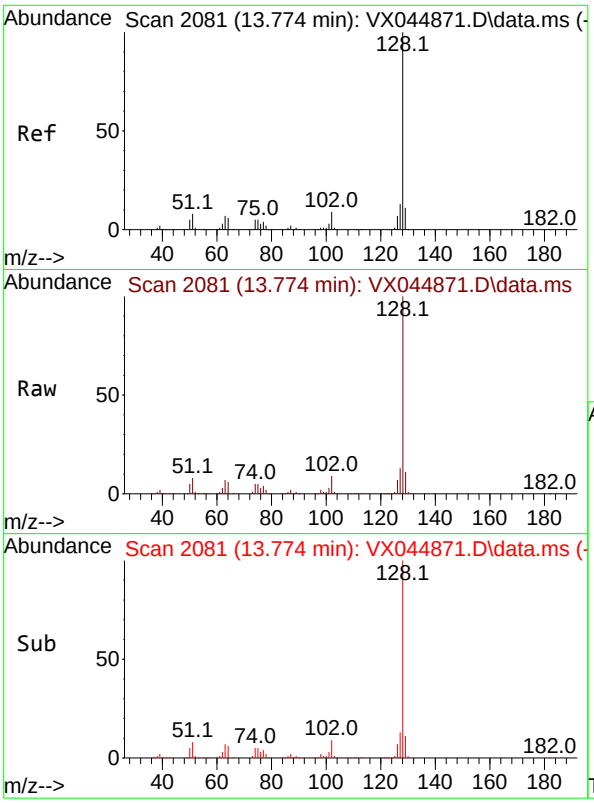


#94
Hexachlorobutadiene
Concen: 48.321 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:225 Resp: 35481

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.4	94.2
227	64.5	32.3	96.8

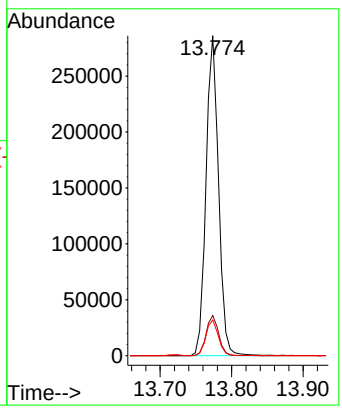




#95
Naphthalene
Concen: 51.995 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:128 Resp: 34764

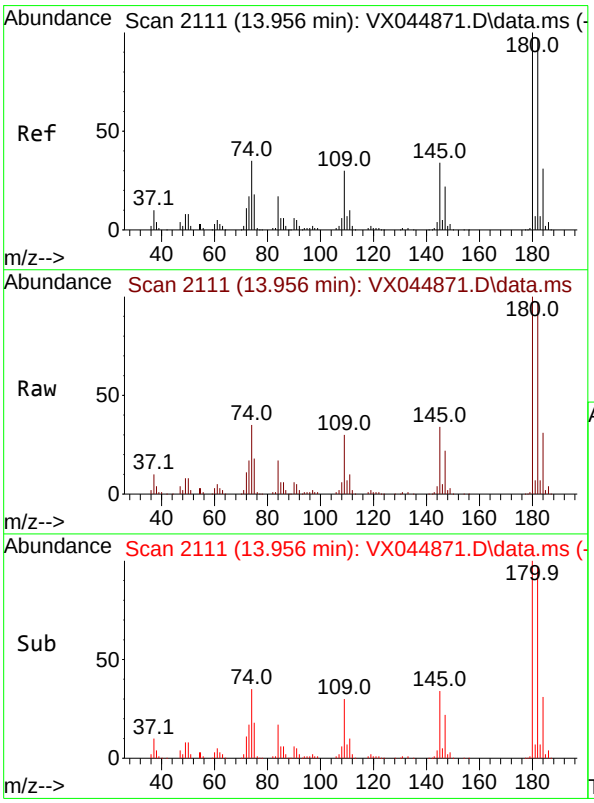
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.1	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

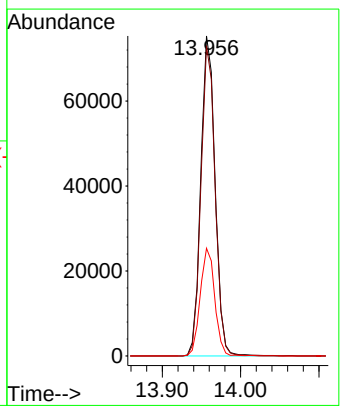
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.245 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:180 Resp: 95510

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.6
145	34.2	17.1	51.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	129508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	236372	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	203881	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	91371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	183093	96.580	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 193.160%#			
35) Dibromofluoromethane	5.373	113	151228	98.404	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 196.800%#			
50) Toluene-d8	8.647	98	570976	98.253	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 196.500%#			
62) 4-Bromofluorobenzene	11.079	95	196066	100.079	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.160%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	182788	100.632	ug/l	99
3) Chloromethane	1.301	50	208416	94.275	ug/l	99
4) Vinyl Chloride	1.374	62	209017	97.593	ug/l	100
5) Bromomethane	1.593	94	62797	97.984	ug/l	97
6) Chloroethane	1.660	64	64581	100.253	ug/l	98
7) Trichlorofluoromethane	1.868	101	262354	96.865	ug/l	99
8) Diethyl Ether	2.130	74	95914	97.647	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	163414	99.860	ug/l	100
10) Methyl Iodide	2.441	142	212118	100.016	ug/l	99
11) Tert butyl alcohol	3.002	59	165263	469.903	ug/l #	73
12) 1,1-Dichloroethene	2.307	96	163593	98.004	ug/l	98
13) Acrolein	2.233	56	180570	497.628	ug/l	99
14) Allyl chloride	2.654	41	297526	98.624	ug/l	98
15) Acrylonitrile	3.063	53	466855	497.173	ug/l	99
16) Acetone	2.386	43	369720	485.125	ug/l	99
17) Carbon Disulfide	2.502	76	463308	101.216	ug/l	99
18) Methyl Acetate	2.703	43	238689	99.249	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	521003	98.098	ug/l	100
20) Methylene Chloride	2.782	84	180120	96.490	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	164067	99.864	ug/l	95
22) Diisopropyl ether	3.758	45	565927	99.157	ug/l	95
23) Vinyl Acetate	3.715	43	2387200	513.051	ug/l	100
24) 1,1-Dichloroethane	3.599	63	313164	98.064	ug/l	99
25) 2-Butanone	4.550	43	617283	498.801	ug/l	98
26) 2,2-Dichloropropane	4.465	77	248324	98.053	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	196381	99.513	ug/l	99
28) Bromochloromethane	4.885	49	148137	96.524	ug/l	100
29) Tetrahydrofuran	4.995	42	405208	493.104	ug/l	100
30) Chloroform	5.087	83	298690	96.445	ug/l	99
31) Cyclohexane	5.458	56	286830	97.426	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	254941	97.050	ug/l	100
36) 1,1-Dichloropropene	5.684	75	216005	97.422	ug/l	100
37) Ethyl Acetate	4.709	43	244164	99.005	ug/l	99
38) Carbon Tetrachloride	5.666	117	210381	96.828	ug/l	97
39) Methylcyclohexane	7.373	83	299703	104.554	ug/l	98
40) Benzene	6.025	78	675556	97.576	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.910	41	135629	102.745 ug/l		99
42) 1,2-Dichloroethane	6.080	62	218174	98.875 ug/l		100
43) Isopropyl Acetate	6.336	43	405489	101.818 ug/l		100
44) Trichloroethene	7.117	130	156832	99.103 ug/l		96
45) 1,2-Dichloropropane	7.422	63	170337	98.893 ug/l		97
46) Dibromomethane	7.574	93	119149	99.747 ug/l		100
47) Bromodichloromethane	7.818	83	236506	102.254 ug/l		97
48) Methyl methacrylate	7.690	41	195892	104.321 ug/l		100
49) 1,4-Dioxane	7.659	88	77816	1931.508 ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	1196887	494.353 ug/l		100
52) Toluene	8.714	92	409318	99.270 ug/l		99
53) t-1,3-Dichloropropene	8.970	75	249725	106.694 ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	277371	106.287 ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	156629	98.817 ug/l		100
56) Ethyl methacrylate	9.116	69	268693	104.958 ug/l		99
57) 1,3-Dichloropropane	9.305	76	273845	98.742 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	664198	528.405 ug/l		100
59) 2-Hexanone	9.427	43	871904	499.819 ug/l		99
60) Dibromochloromethane	9.519	129	173848	102.557 ug/l		100
61) 1,2-Dibromoethane	9.604	107	162982	101.451 ug/l		98
64) Tetrachloroethene	9.269	164	125294	97.447 ug/l		100
65) Chlorobenzene	10.073	112	436565	99.694 ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	144793	102.728 ug/l		100
67) Ethyl Benzene	10.189	91	784184	101.477 ug/l		100
68) m/p-Xylenes	10.299	106	575559	201.907 ug/l		99
69) o-Xylene	10.640	106	281830	98.530 ug/l		100
70) Styrene	10.653	104	473403	102.728 ug/l		99
71) Bromoform	10.799	173	112371	106.827 ug/l	#	99
73) Isopropylbenzene	10.957	105	719923	97.854 ug/l		99
74) N-amyl acetate	10.842	43	345193	103.687 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	238529	94.351 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	198320m	97.896 ug/l		
77) Bromobenzene	11.195	156	163845	98.230 ug/l		100
78) n-propylbenzene	11.299	91	858793	101.132 ug/l		100
79) 2-Chlorotoluene	11.360	91	497149	95.257 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	584885	97.966 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	83483	106.006 ug/l		98
82) 4-Chlorotoluene	11.451	91	569510	98.634 ug/l		100
83) tert-Butylbenzene	11.713	119	591396	97.917 ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	588385	99.851 ug/l		99
85) sec-Butylbenzene	11.890	105	749534	100.219 ug/l		99
86) p-Isopropyltoluene	12.006	119	607577	101.019 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	303851	99.061 ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	303417	97.830 ug/l		99
89) n-Butylbenzene	12.329	91	583634	109.686 ug/l		100
90) Hexachloroethane	12.536	117	117533	104.365 ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	293151	97.244 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	47745	103.477 ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	193214	105.921 ug/l		99
94) Hexachlorobutadiene	13.725	225	74605	103.024 ug/l		99
95) Naphthalene	13.774	128	689104	104.505 ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	190534	103.659 ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

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

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

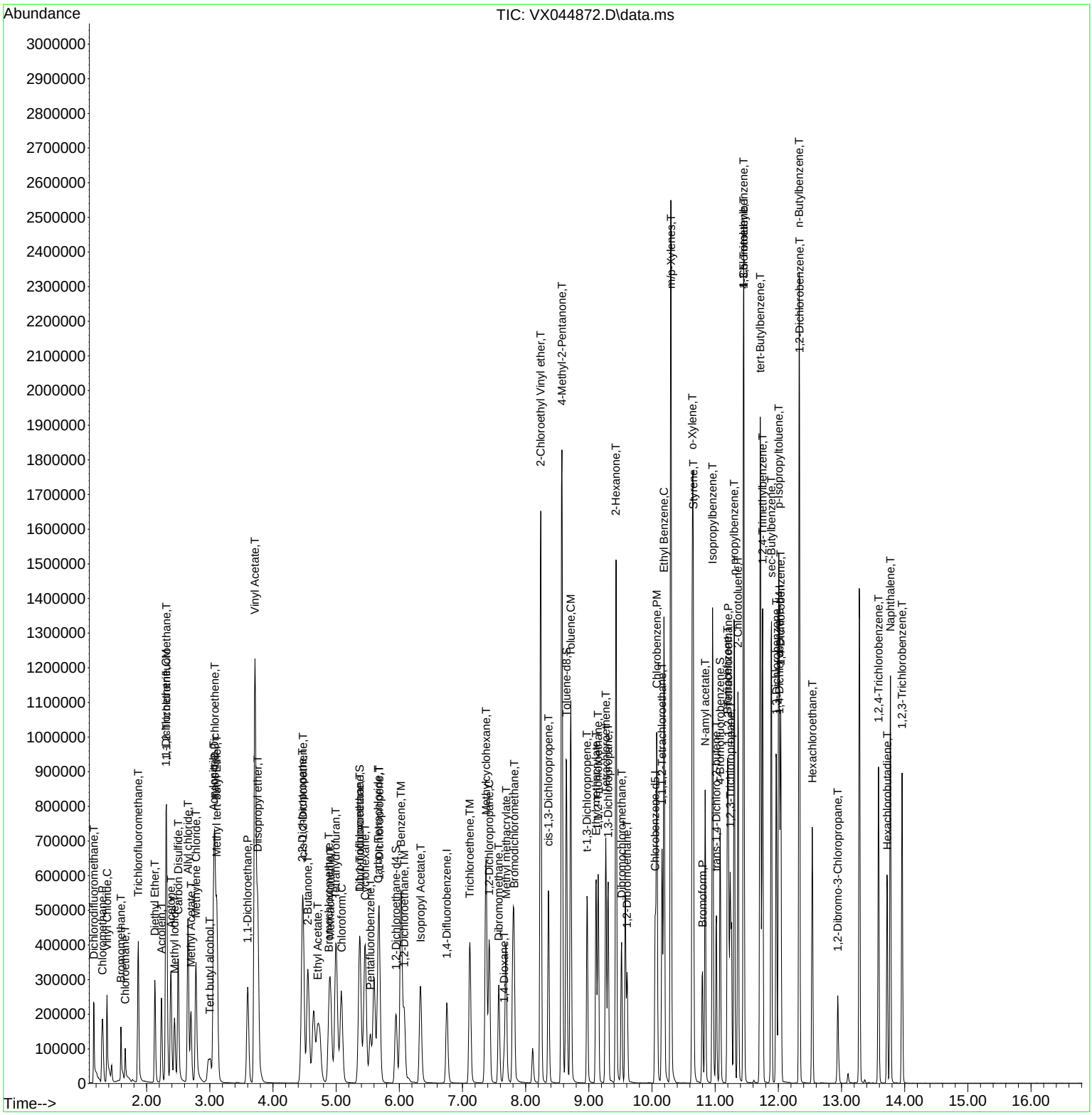
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

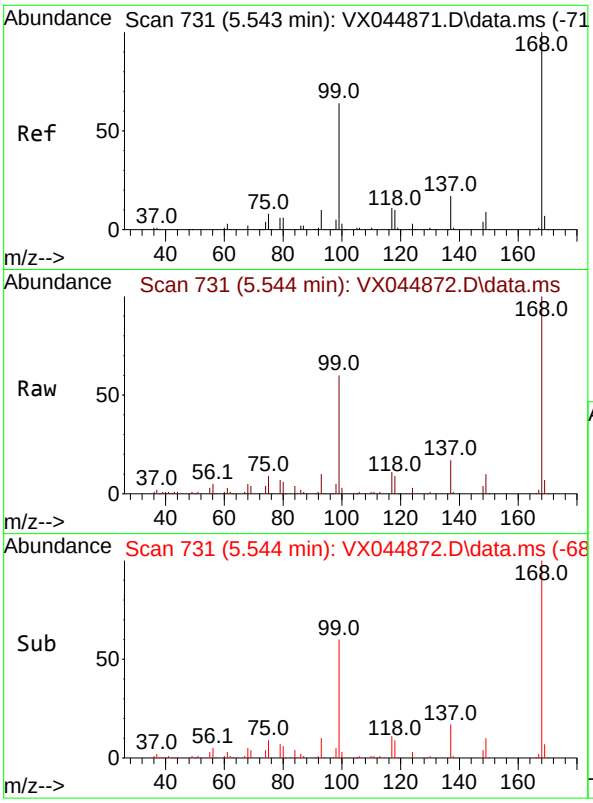
Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

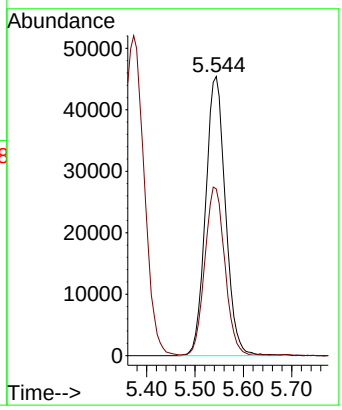




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:168 Resp: 12950

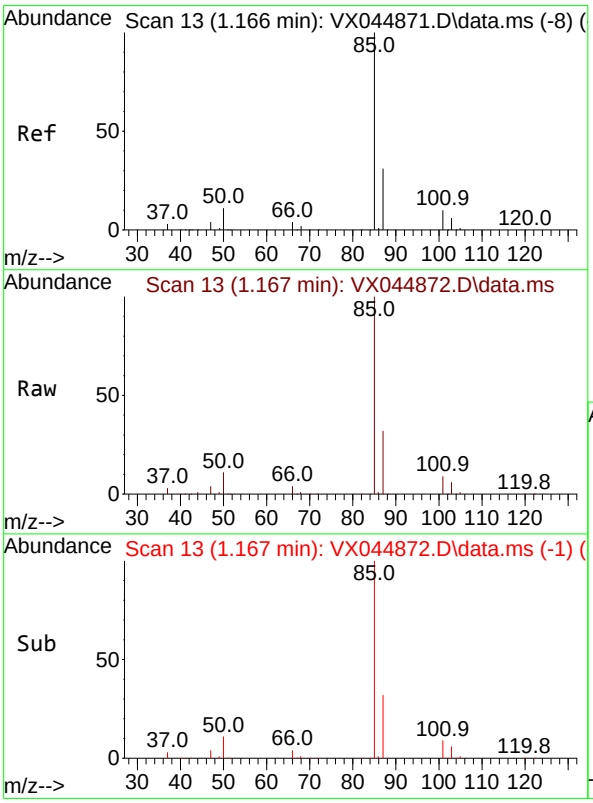
Ion	Ratio	Lower	Upper
168	100		
99	59.4	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

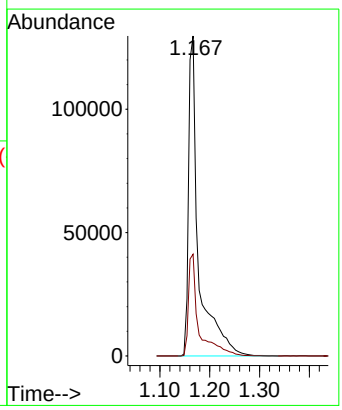
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

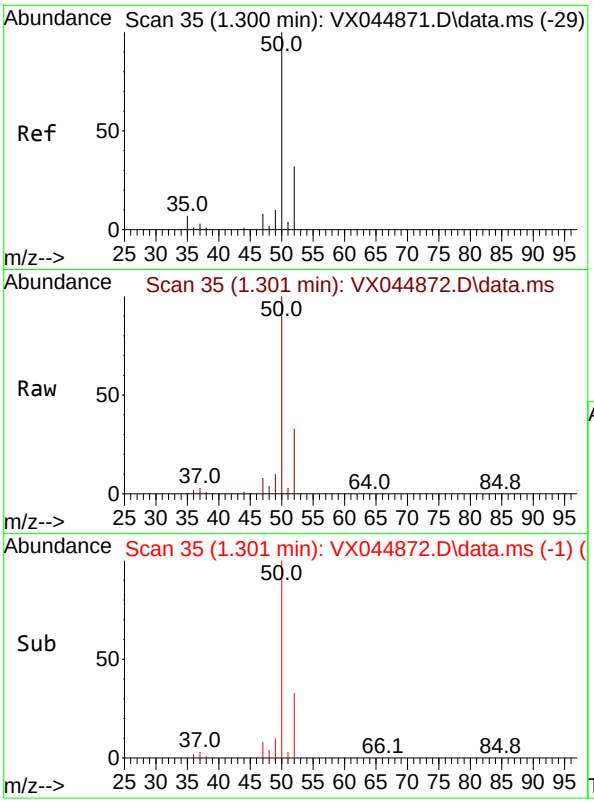


#2
Dichlorodifluoromethane
Concen: 100.632 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 85 Resp: 182788

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3

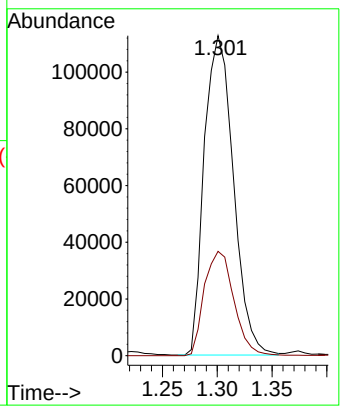




#3
Chloromethane
Concen: 94.275 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 50 Resp: 20841

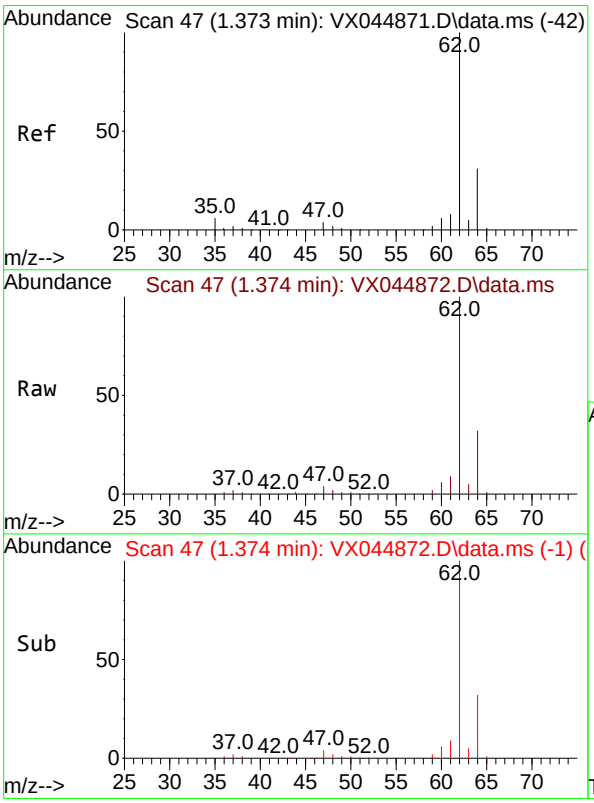
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

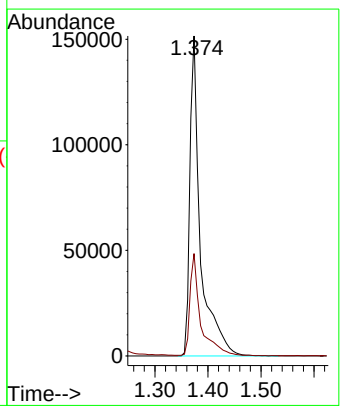
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

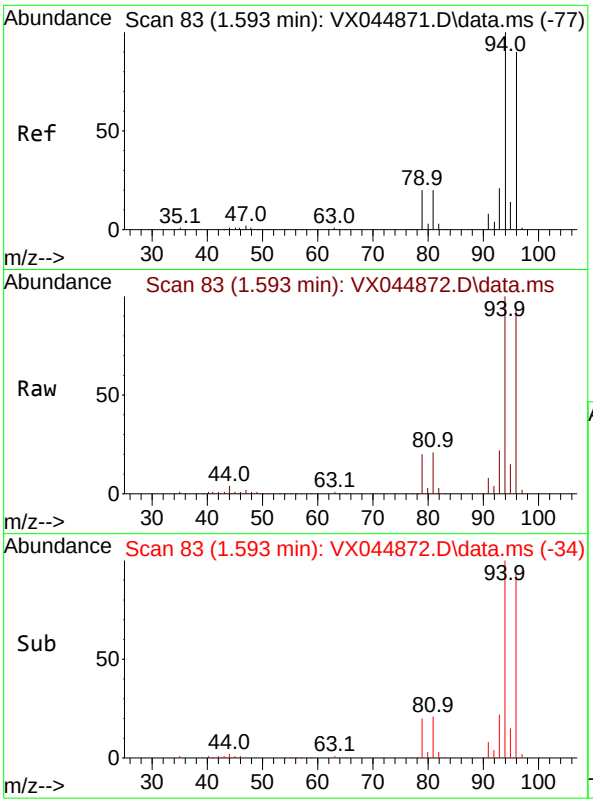


#4
Vinyl Chloride
Concen: 97.593 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 209017

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.4	38.0

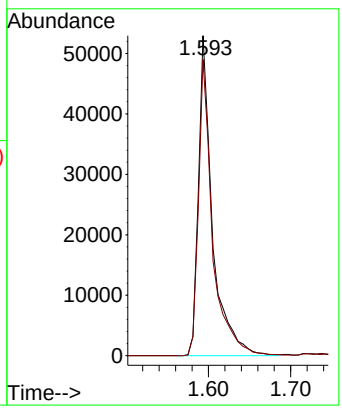




#5
Bromomethane
Concen: 97.984 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 94 Resp: 6279

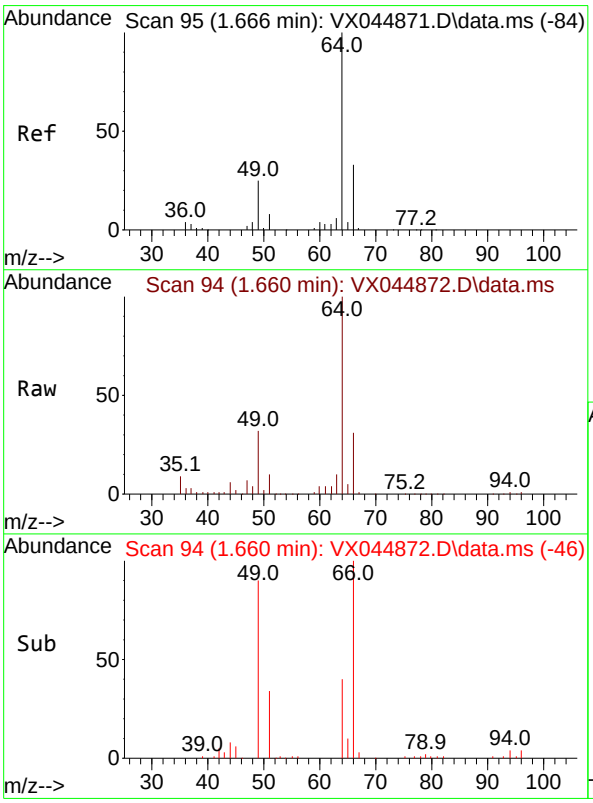
Ion	Ratio	Lower	Upper
94	100		
96	92.6	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

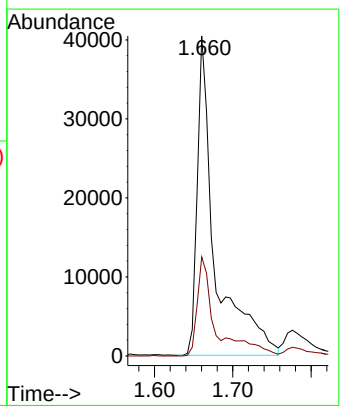
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

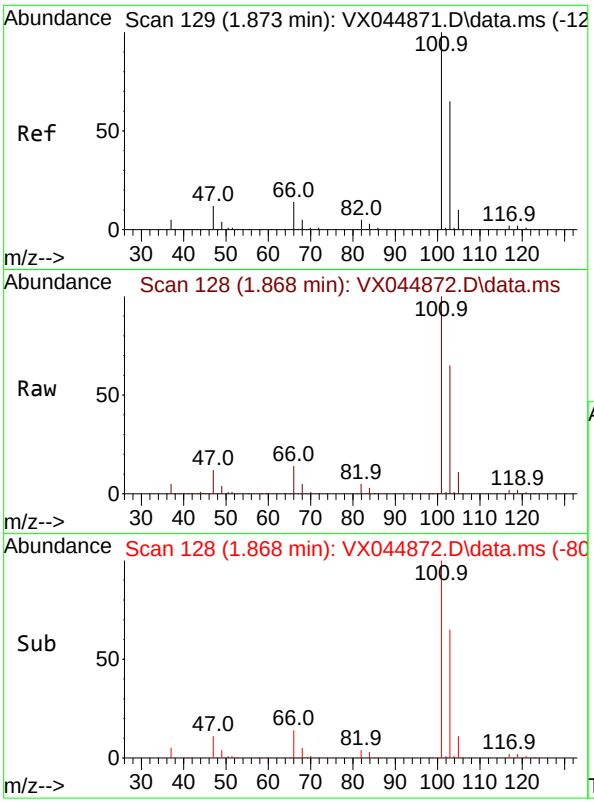


#6
Chloroethane
Concen: 100.253 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 64 Resp: 64581

Ion	Ratio	Lower	Upper
64	100		
66	31.0	25.9	38.9

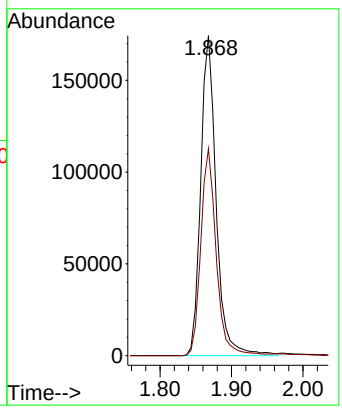




#7
Trichlorofluoromethane
Concen: 96.865 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:101 Resp: 26235

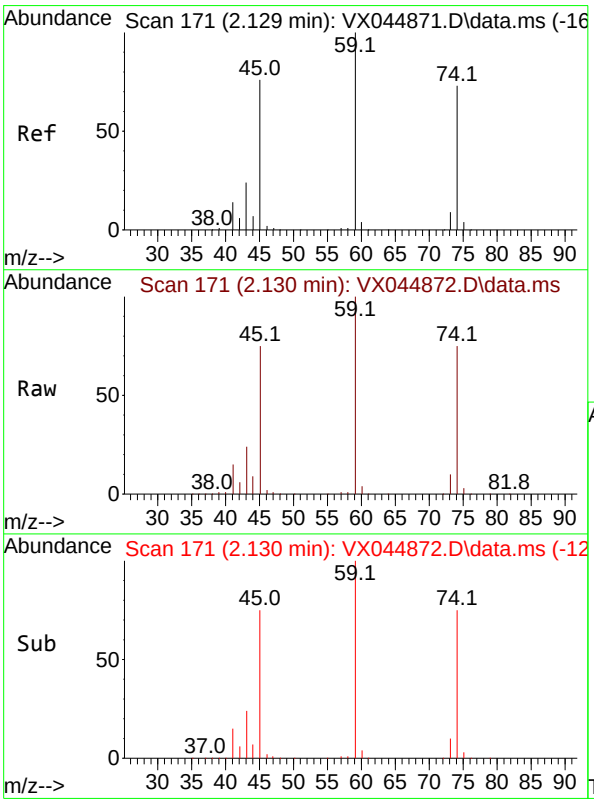
Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

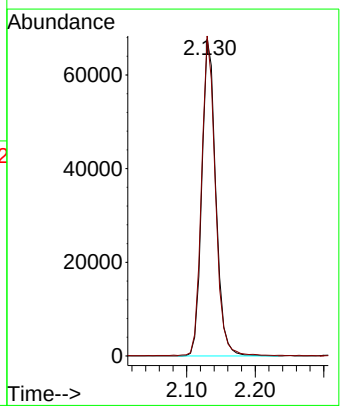
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

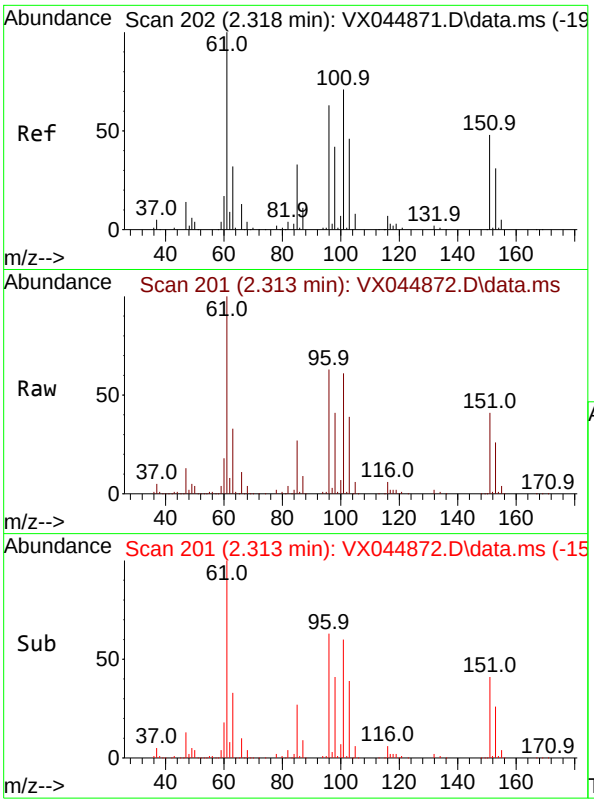


#8
Diethyl Ether
Concen: 97.647 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 74 Resp: 95914

Ion	Ratio	Lower	Upper
74	100		
45	99.5	51.1	153.4

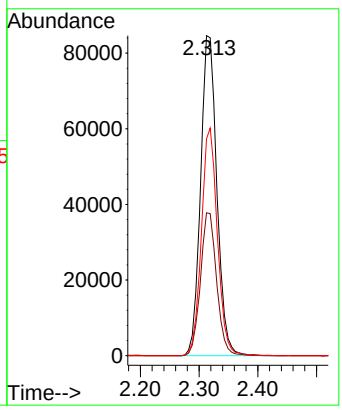




#9
1,1,2-Trichlorotrifluoroethane
Concen: 99.860 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:101 Resp: 16341

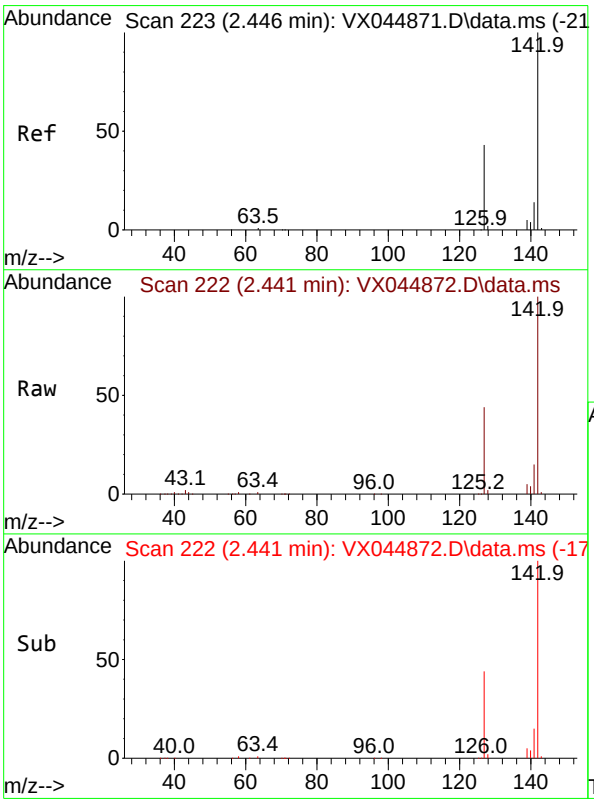
Ion	Ratio	Lower	Upper
101	100		
85	44.3	35.7	53.5
151	69.8	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

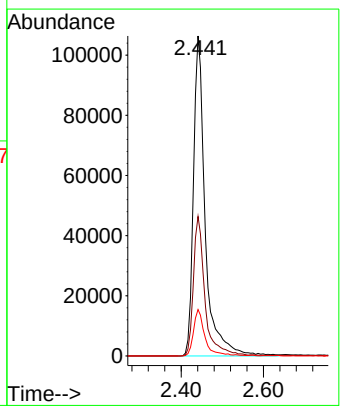
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

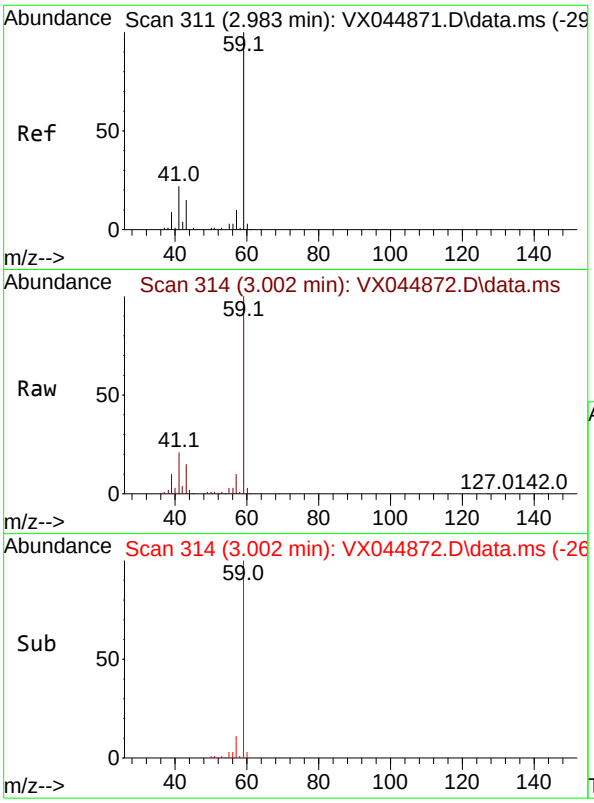


#10
Methyl Iodide
Concen: 100.016 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:142 Resp: 212118

Ion	Ratio	Lower	Upper
142	100		
127	42.5	34.3	51.5
141	14.1	11.4	17.2





#11
Tert butyl alcohol
Concen: 469.903 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.019 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

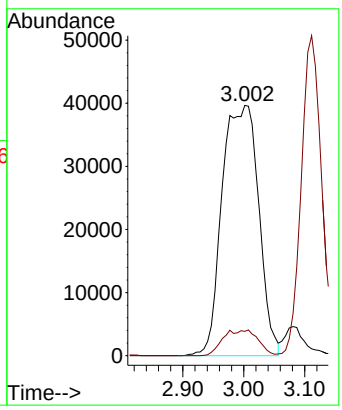
Tgt Ion: 59 Resp: 16526

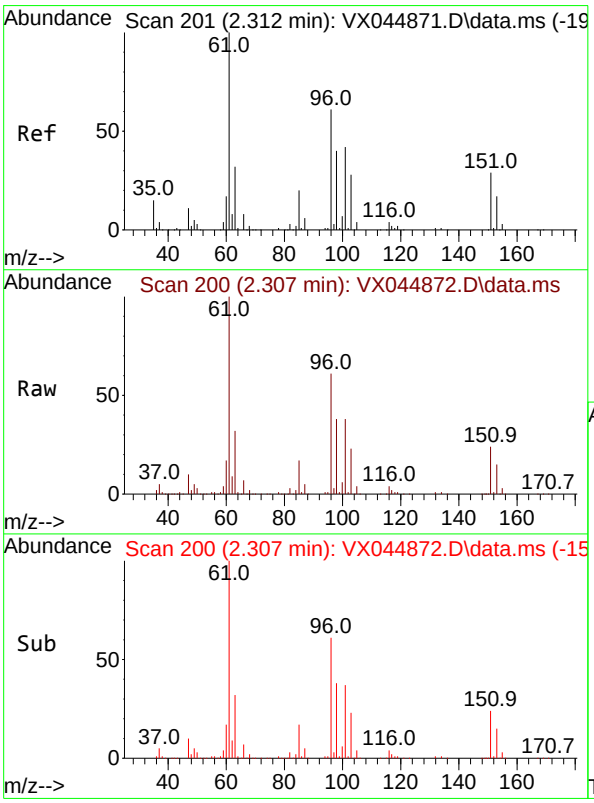
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

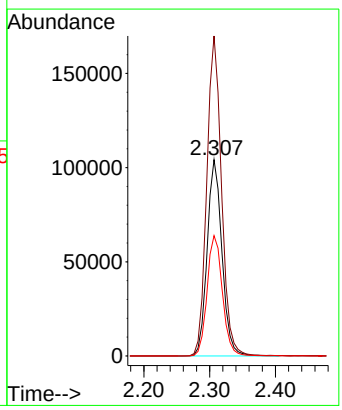


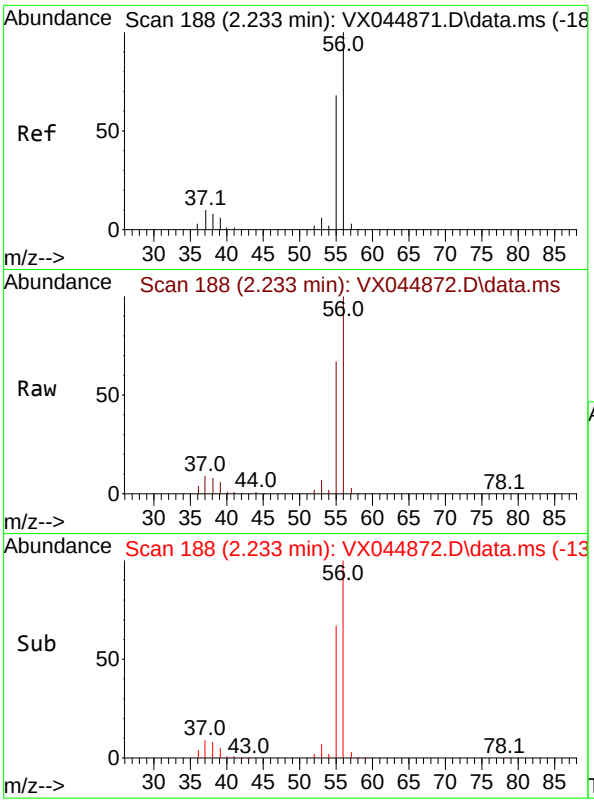


#12
1,1-Dichloroethene
Concen: 98.004 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 96 Resp: 163593

Ion	Ratio	Lower	Upper
96	100		
61	162.9	130.2	195.4
98	61.3	52.2	78.4

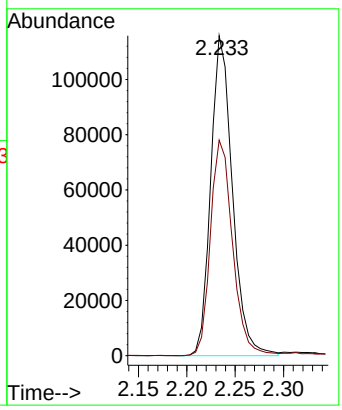




#13
Acrolein
Concen: 497.628 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 56 Resp: 18057

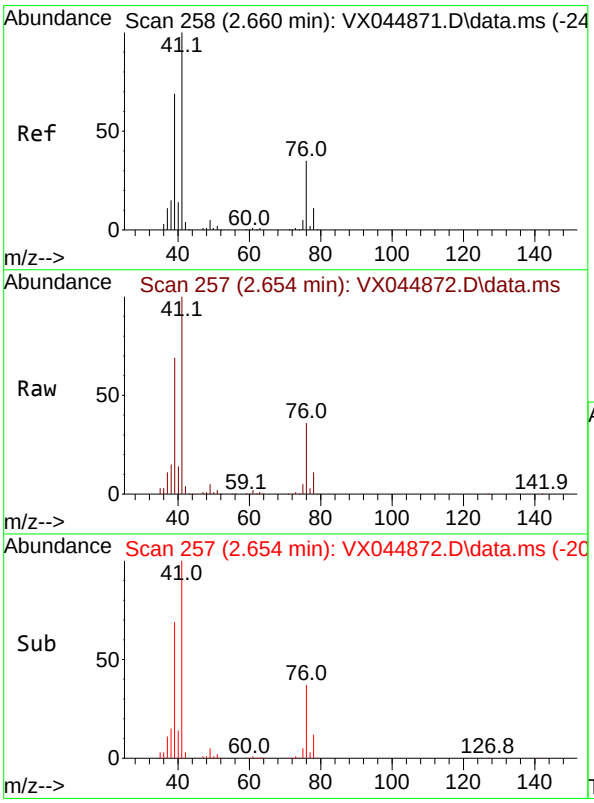
Ion	Ratio	Lower	Upper
56	100		
55	68.9	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

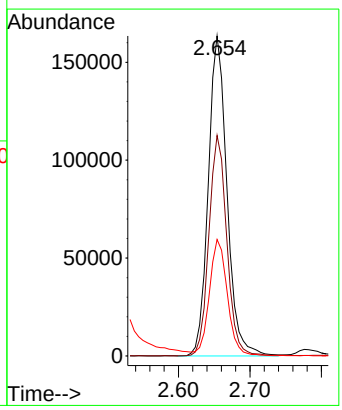
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

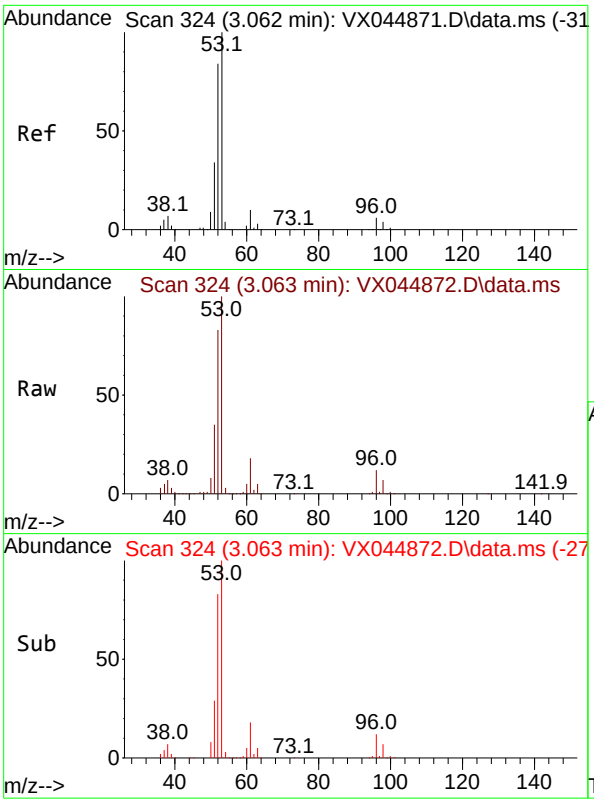


#14
Allyl chloride
Concen: 98.624 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 297526

Ion	Ratio	Lower	Upper
41	100		
39	65.6	51.4	77.2
76	34.9	27.0	40.4

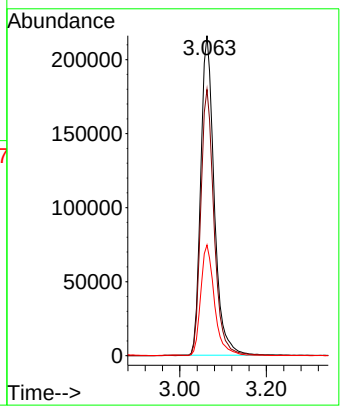




#15
Acrylonitrile
Concen: 497.173 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 53 Resp: 46685

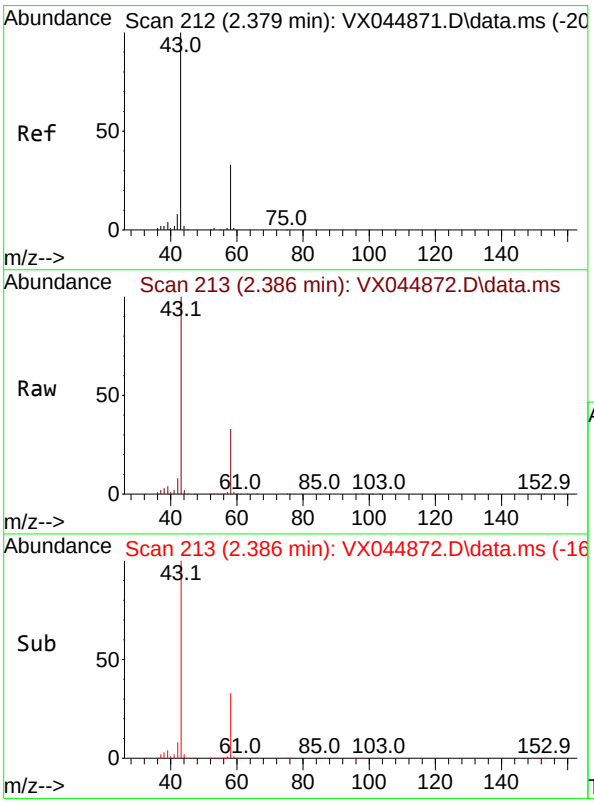
Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.0	97.6
51	34.9	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

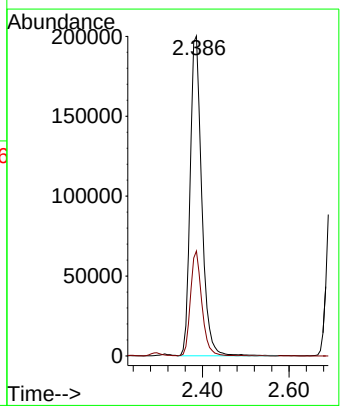
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

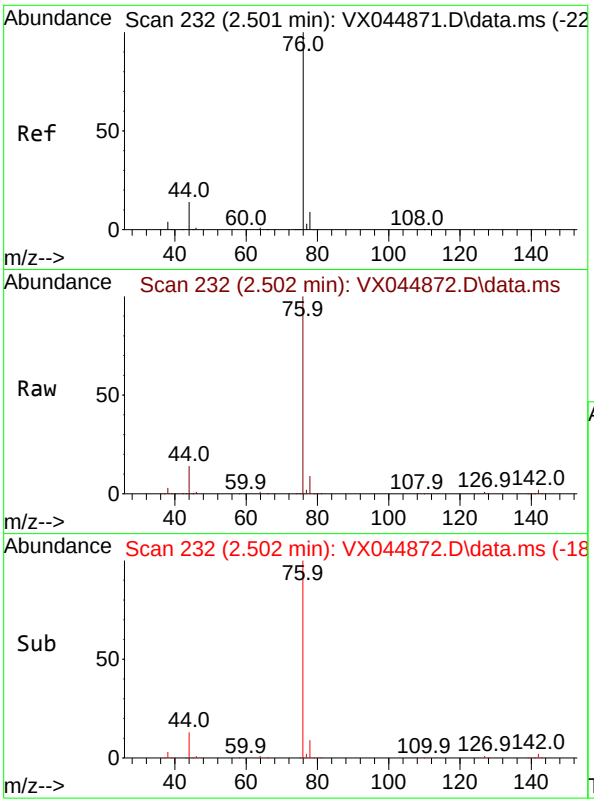


#16
Acetone
Concen: 485.125 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.007 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 369720

Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.5	39.7

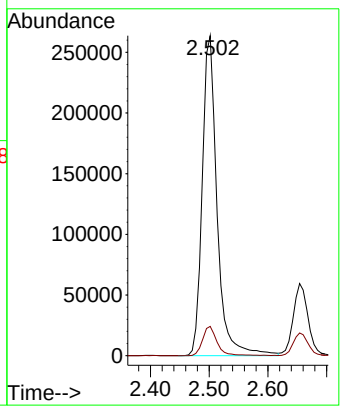




#17
Carbon Disulfide
Concen: 101.216 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 76 Resp: 46330

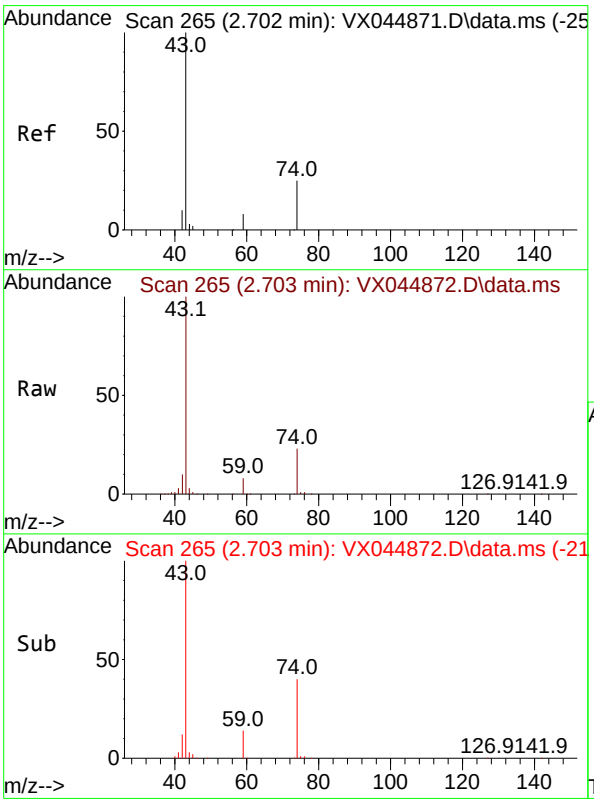
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

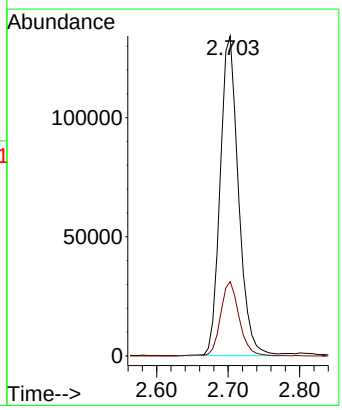
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

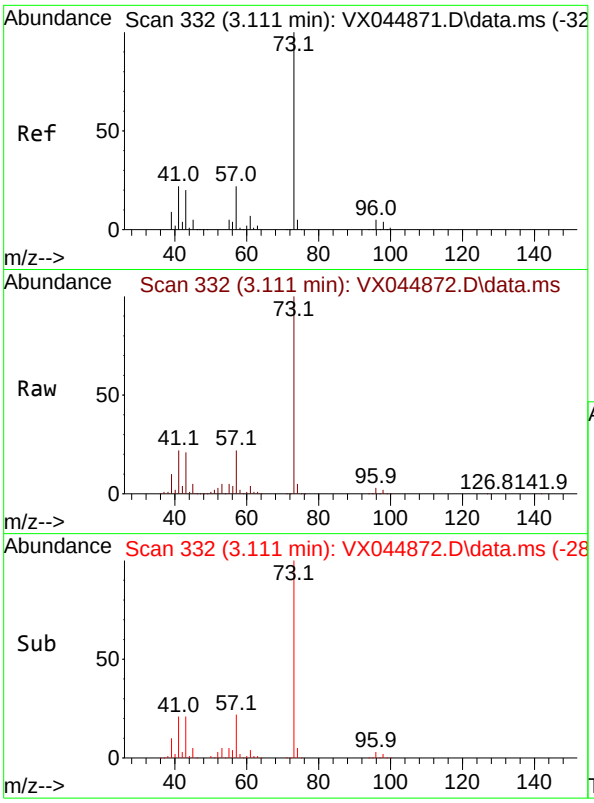


#18
Methyl Acetate
Concen: 99.249 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 238689

Ion	Ratio	Lower	Upper
43	100		
74	23.8	18.9	28.3





#19
Methyl tert-butyl Ether
Concen: 98.098 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

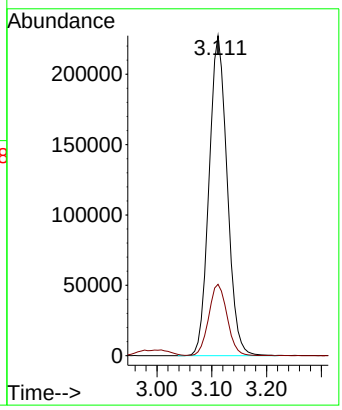
Tgt Ion: 73 Resp: 52100

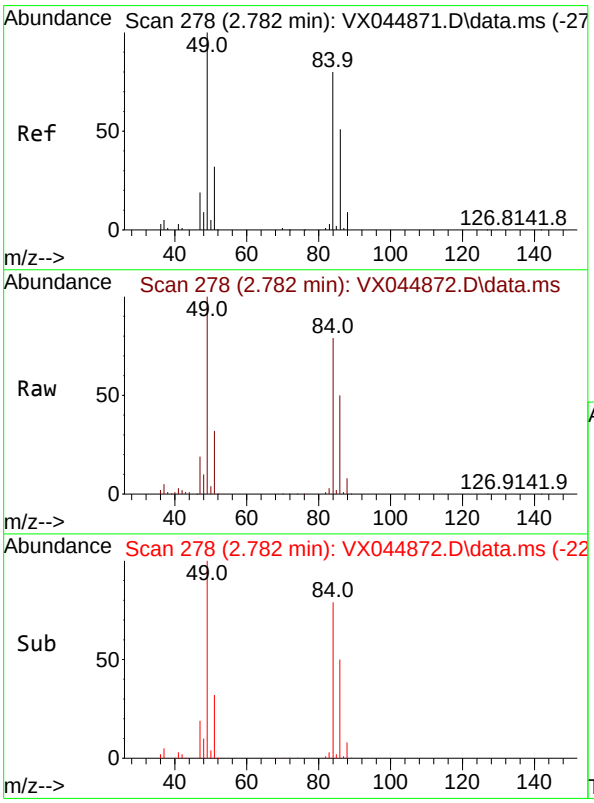
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

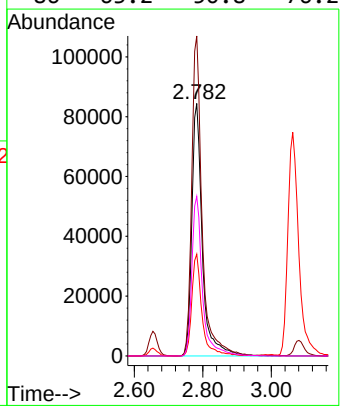


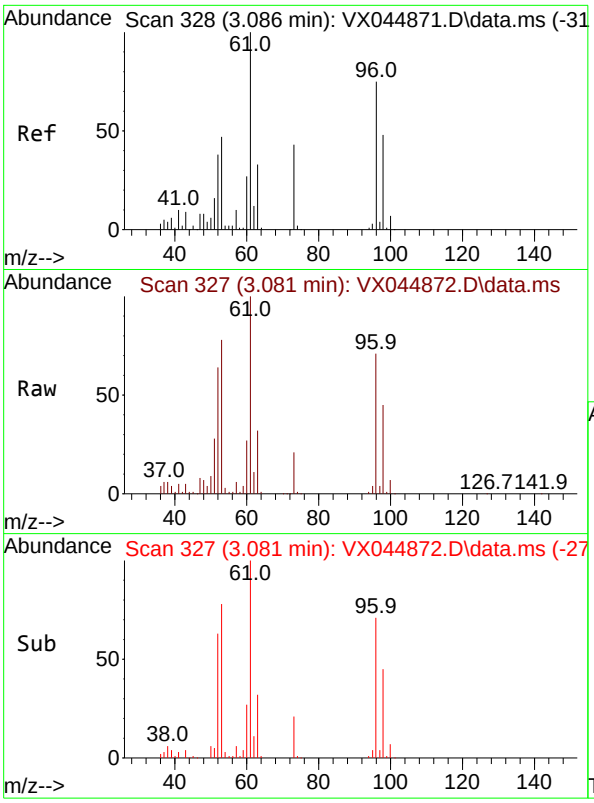


#20
Methylene Chloride
Concen: 96.490 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 84 Resp: 180120

Ion	Ratio	Lower	Upper
84	100		
49	126.7	100.1	150.1
51	40.3	31.7	47.5
86	63.2	50.8	76.2

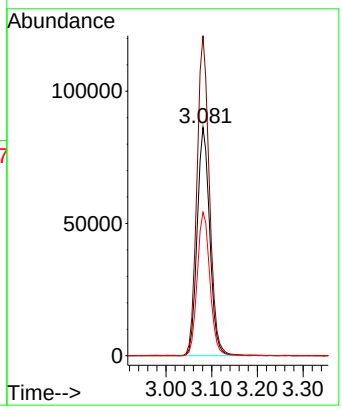




#21
trans-1,2-Dichloroethene
Concen: 99.864 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 96 Resp: 16406

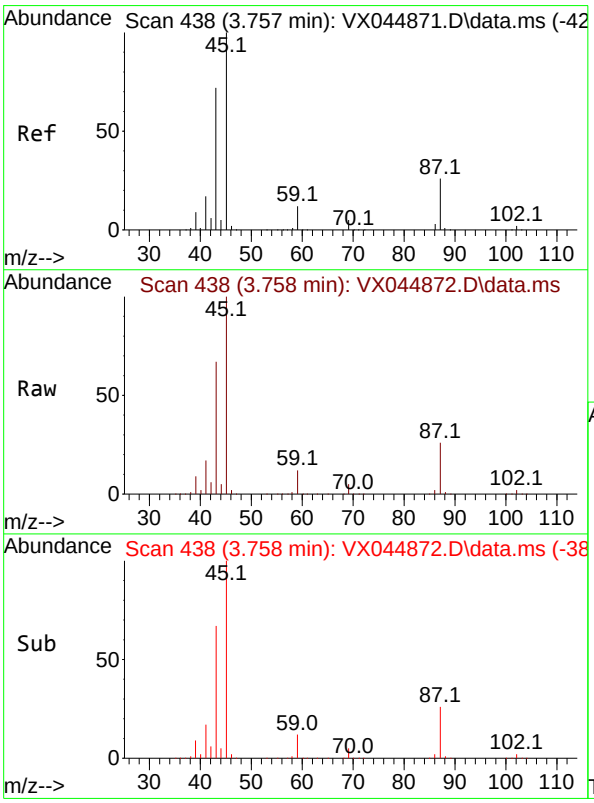
Ion	Ratio	Lower	Upper
96	100		
61	140.2	106.0	159.0
98	62.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

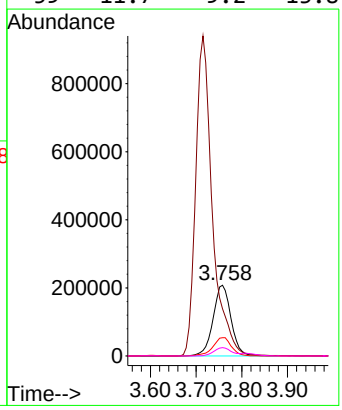
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

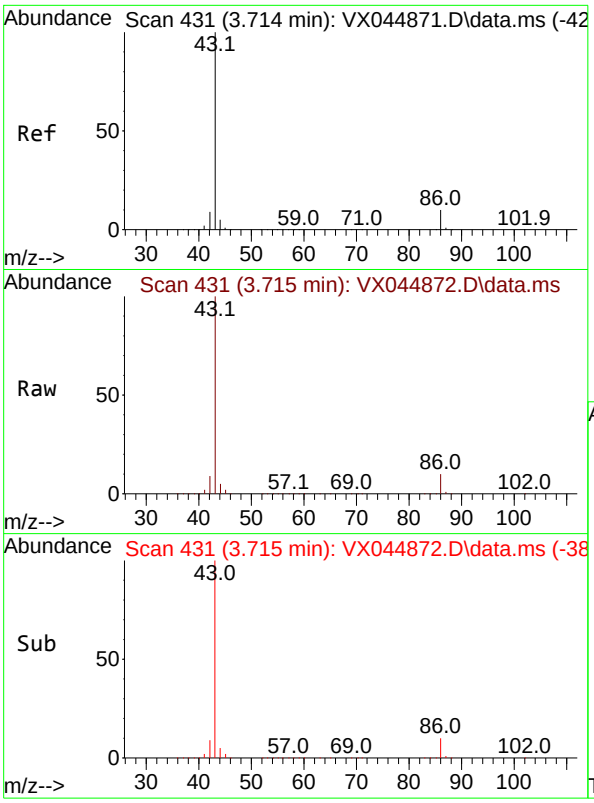


#22
Diisopropyl ether
Concen: 99.157 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 45 Resp: 565927

Ion	Ratio	Lower	Upper
45	100		
43	66.7	58.0	87.0
87	25.7	20.7	31.1
59	11.7	9.2	13.8

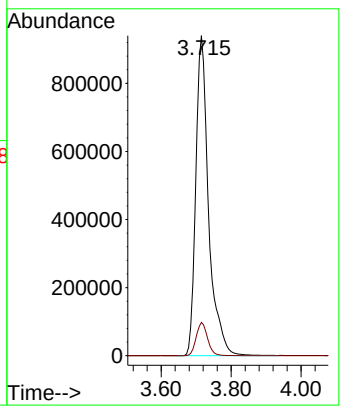




#23
Vinyl Acetate
Concen: 513.051 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 238720

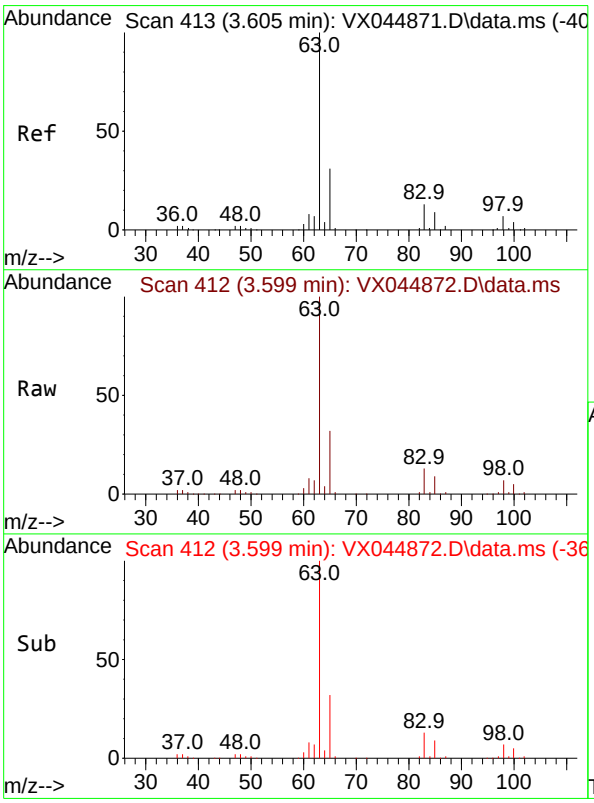
Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

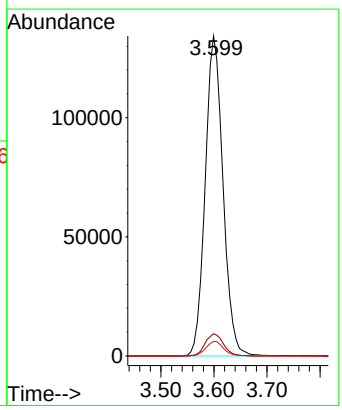
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

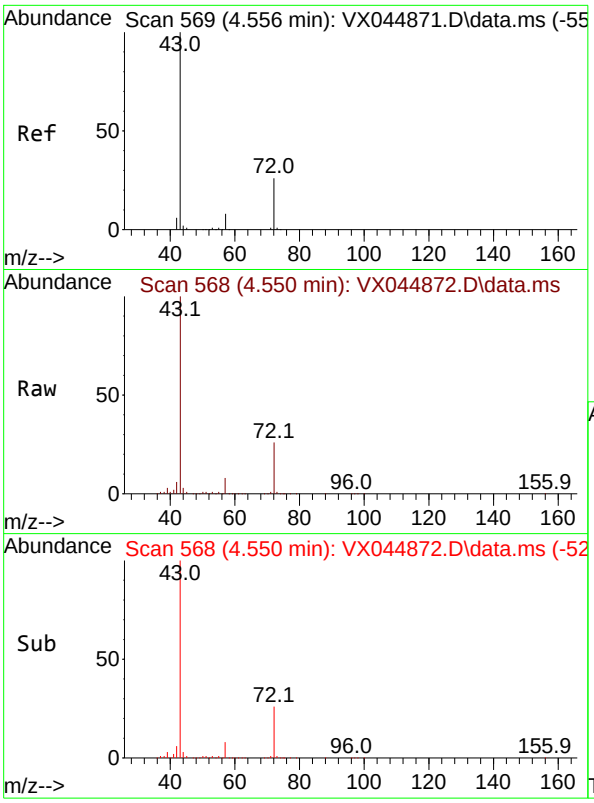


#24
1,1-Dichloroethane
Concen: 98.064 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 313164

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.5	2.1	6.5





#25
2-Butanone
Concen: 498.801 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

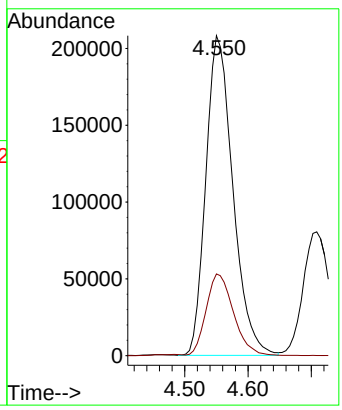
Tgt Ion: 43 Resp: 61728

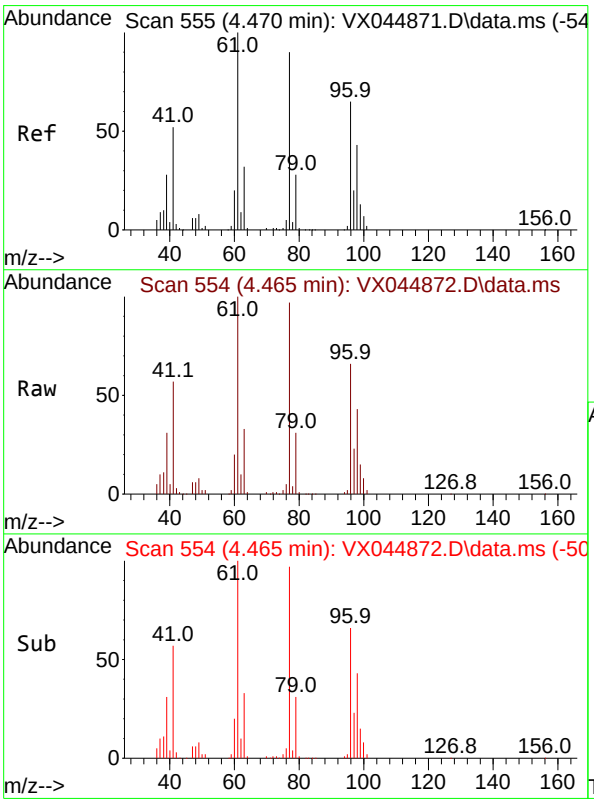
Ion	Ratio	Lower	Upper
43	100		
72	25.4	21.2	31.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

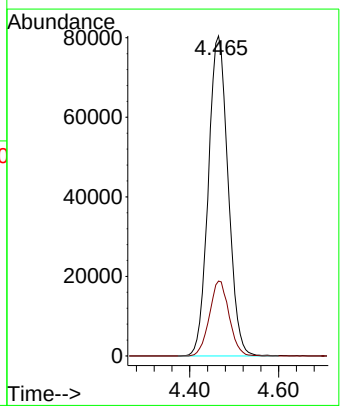


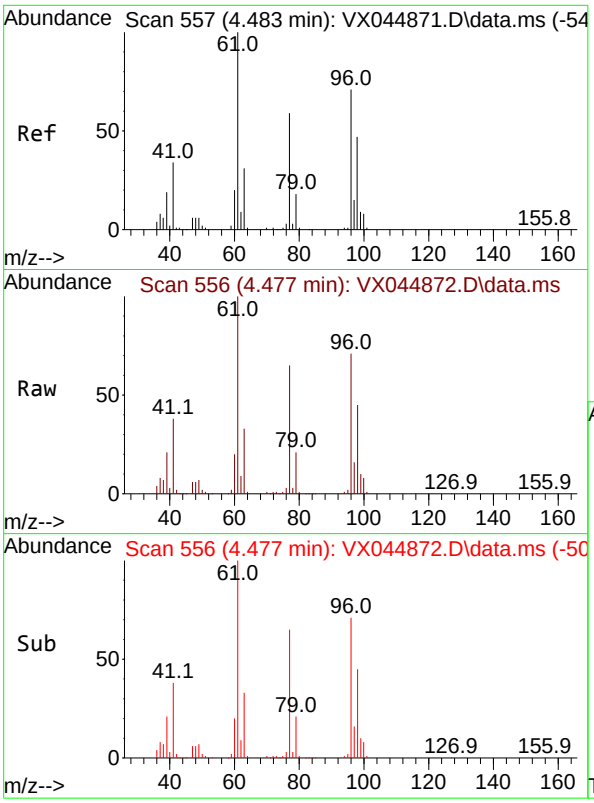


#26
2,2-Dichloropropane
Concen: 98.053 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 77 Resp: 248324

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.8	35.3

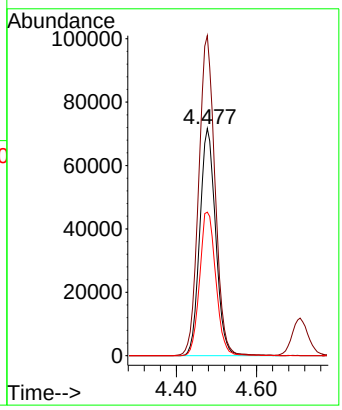




#27
cis-1,2-Dichloroethene
Concen: 99.513 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 96 Resp: 19638

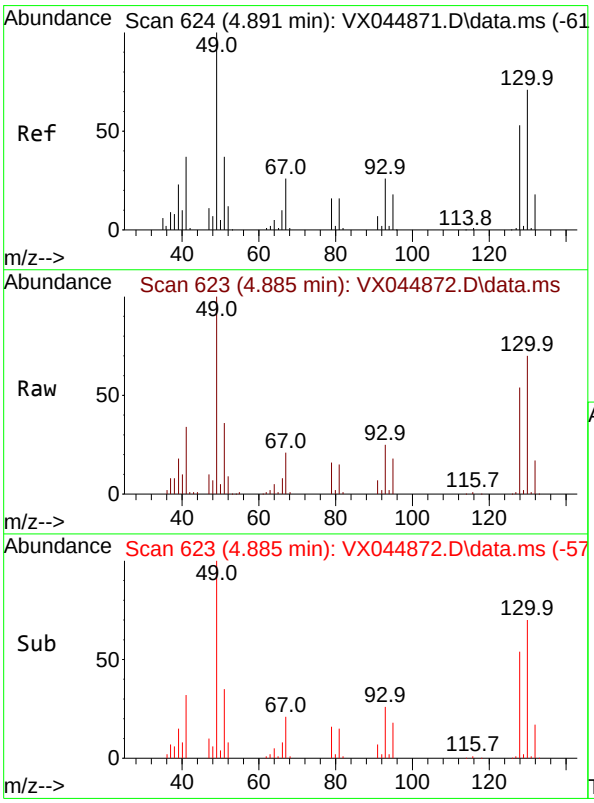
Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	294.0
98	64.6	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

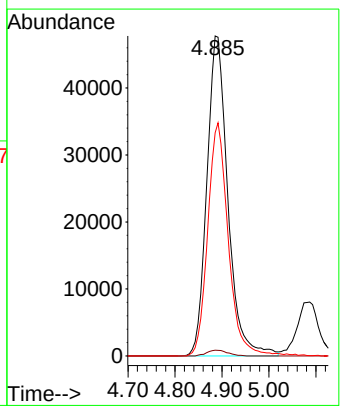
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

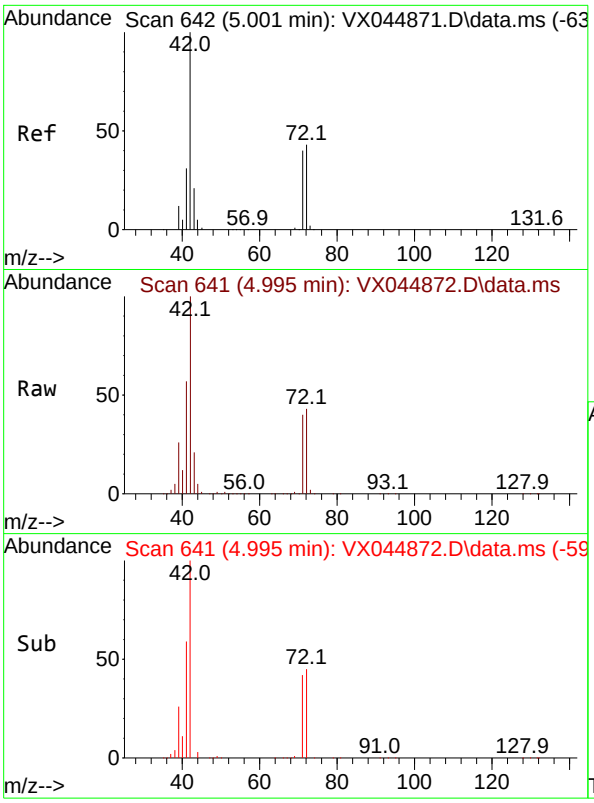


#28
Bromochloromethane
Concen: 96.524 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 49 Resp: 148137

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	71.1	56.7	85.1





#29
Tetrahydrofuran
Concen: 493.104 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

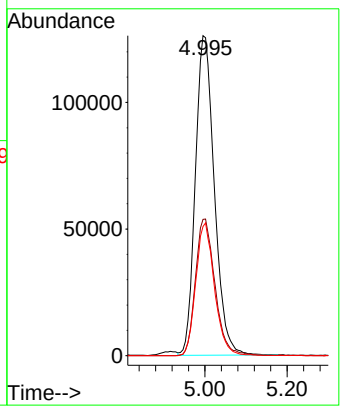
Tgt Ion: 42 Resp: 40520

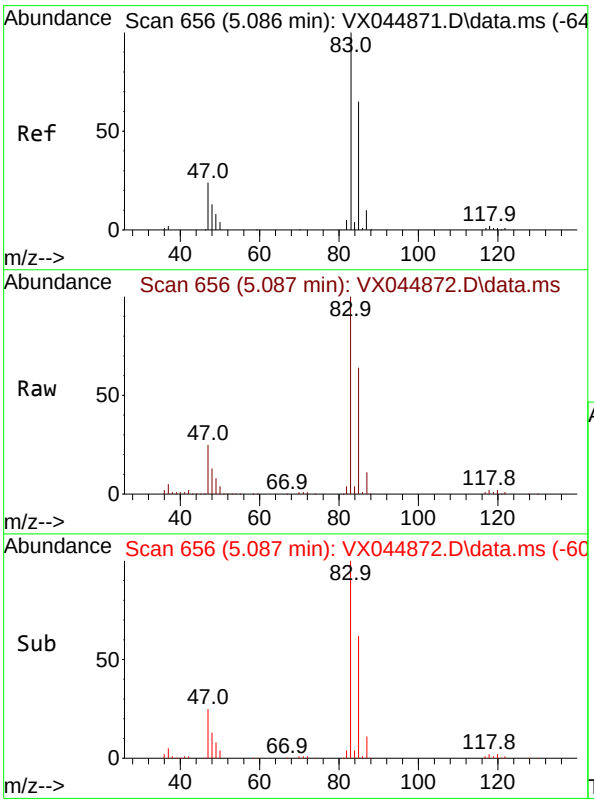
Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.0	52.4
71	40.8	32.6	48.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

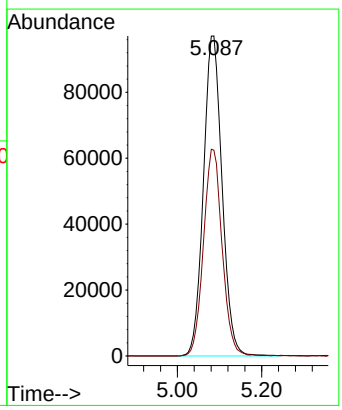


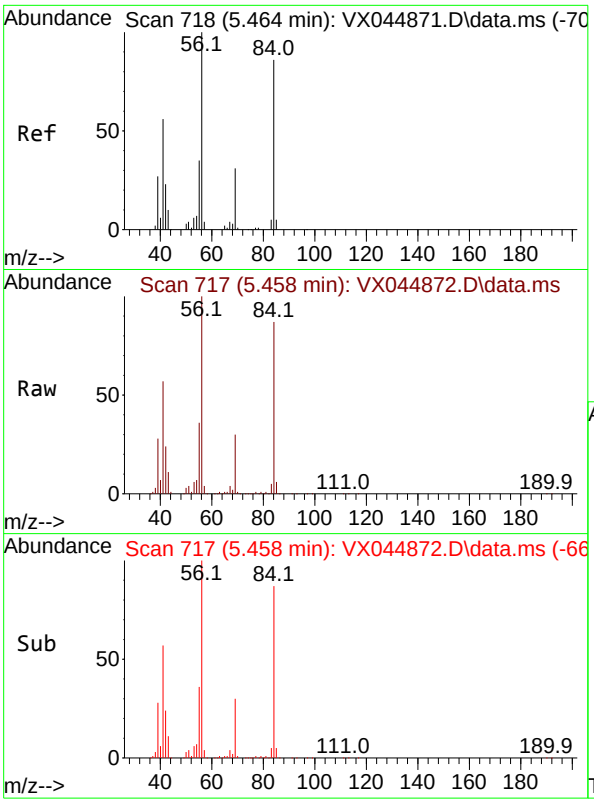


#30
Chloroform
Concen: 96.445 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 298690

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1

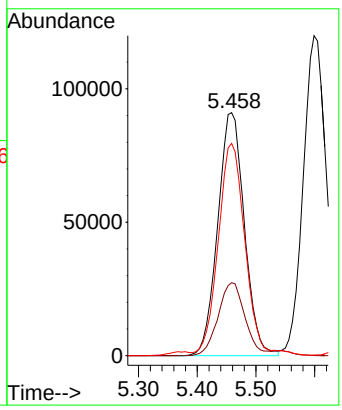




#31
Cyclohexane
Concen: 97.426 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 56 Resp: 28683

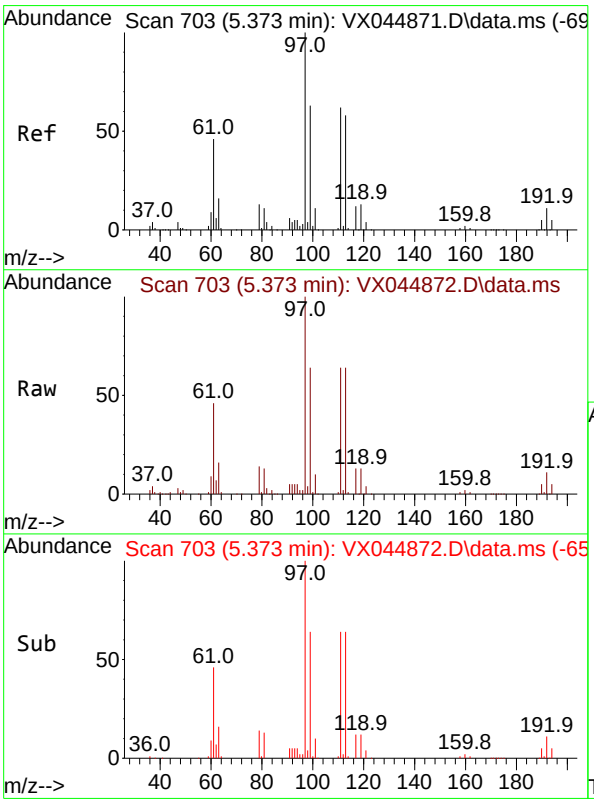
Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	85.7	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

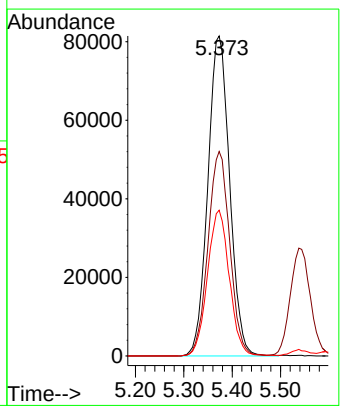
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

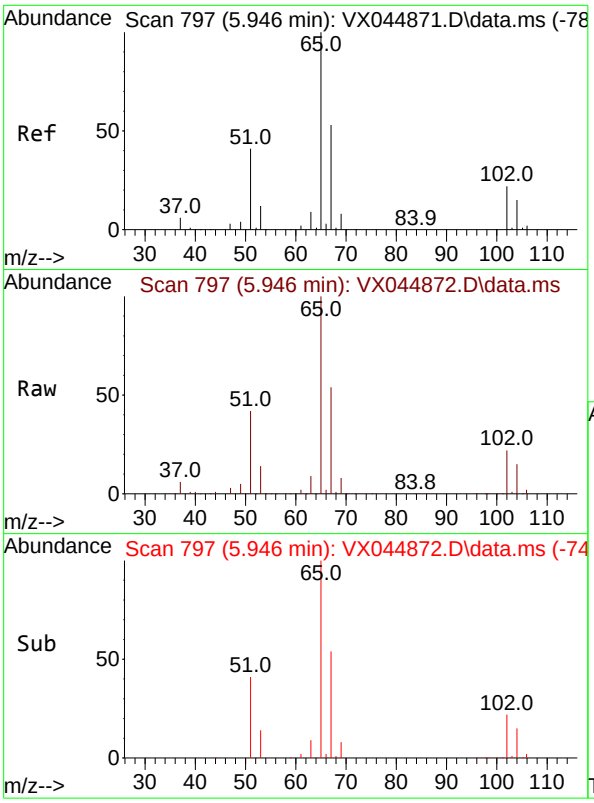


#32
1,1,1-Trichloroethane
Concen: 97.050 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 97 Resp: 254941

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.8	36.6	55.0

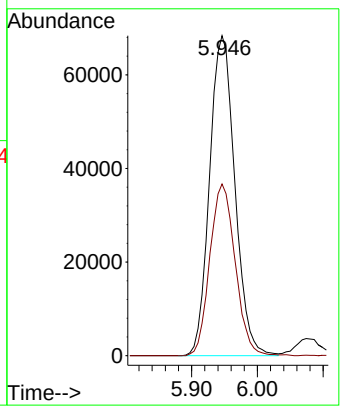




#33
1,2-Dichloroethane-d4
Concen: 96.580 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 65 Resp: 18309

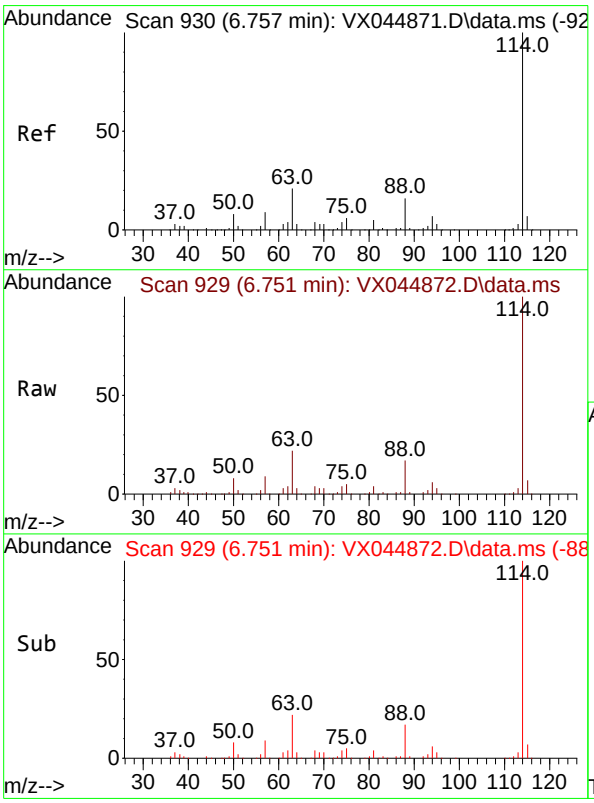
Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

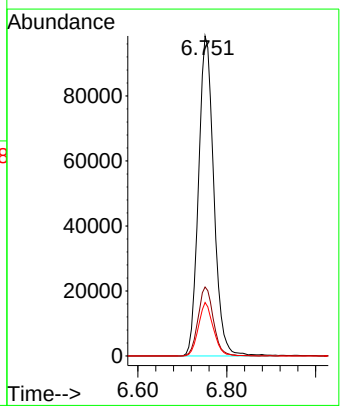
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

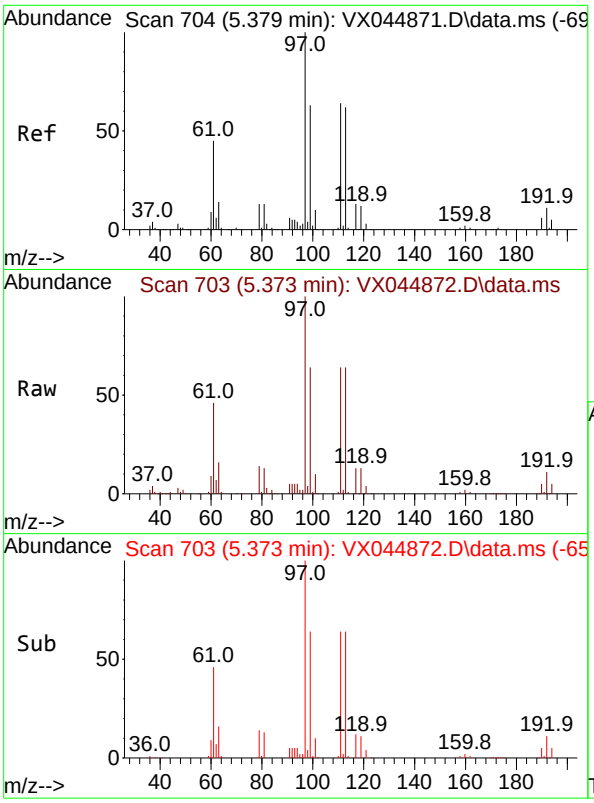


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:114 Resp: 236372

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.4
88	16.7	0.0	31.4

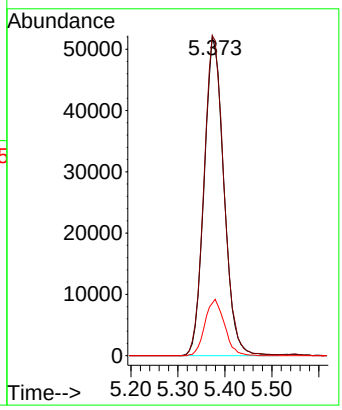




#35
Dibromofluoromethane
Concen: 98.404 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:113 Resp: 15122

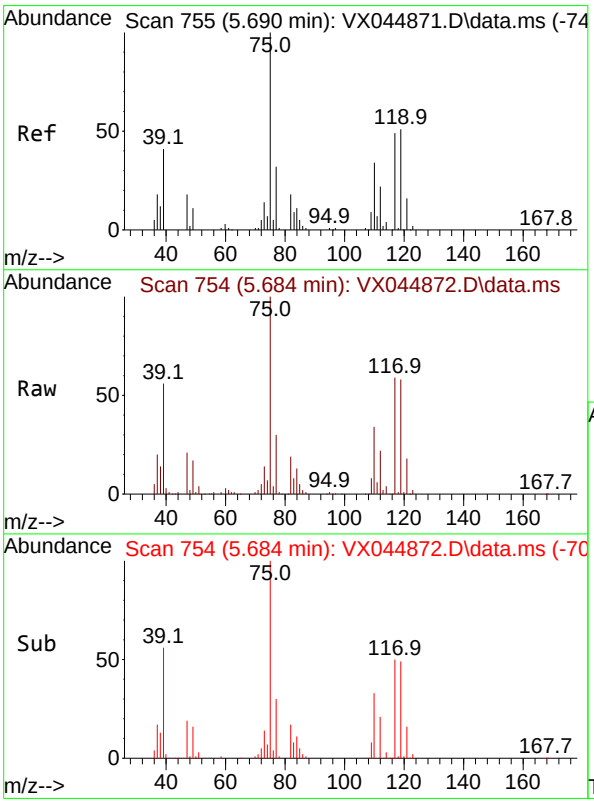
Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.5	125.3
192	17.6	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

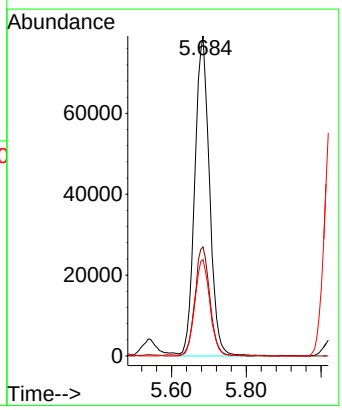
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

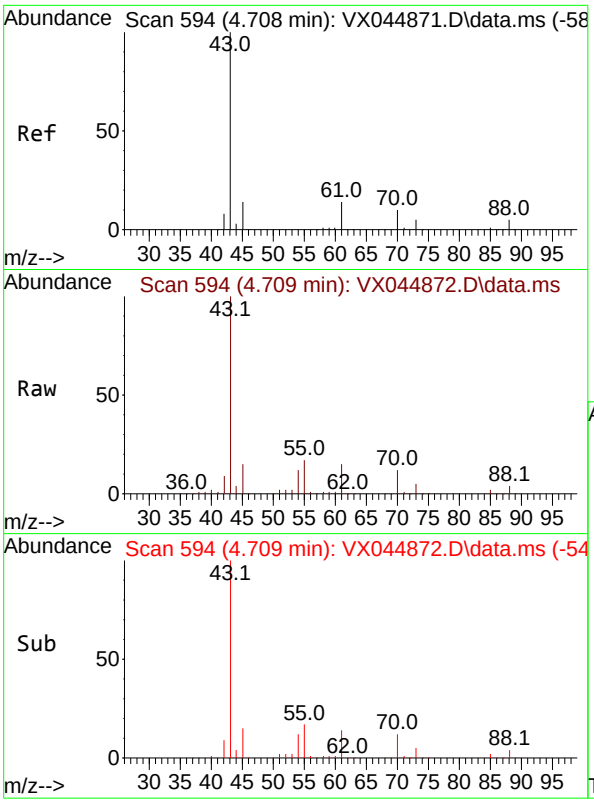


#36
1,1-Dichloropropene
Concen: 97.422 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 216005

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.9	24.6	37.0

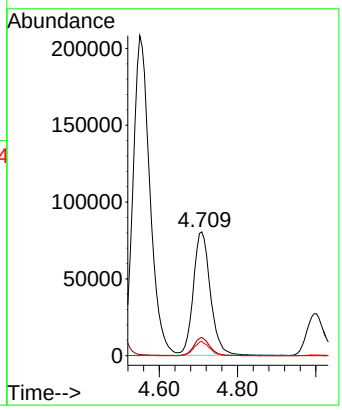




#37
Ethyl Acetate
Concen: 99.005 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 24416

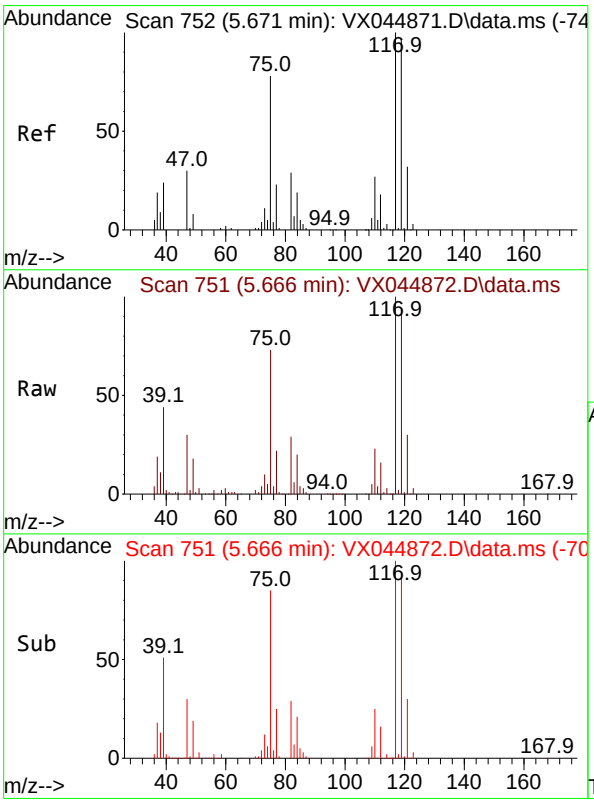
Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.0	16.4
70	10.6	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

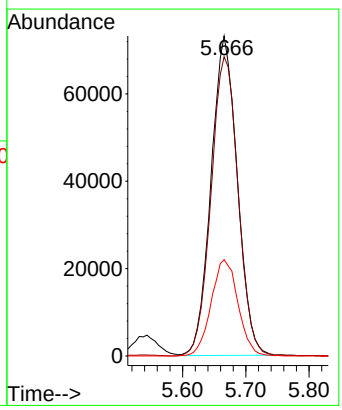
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

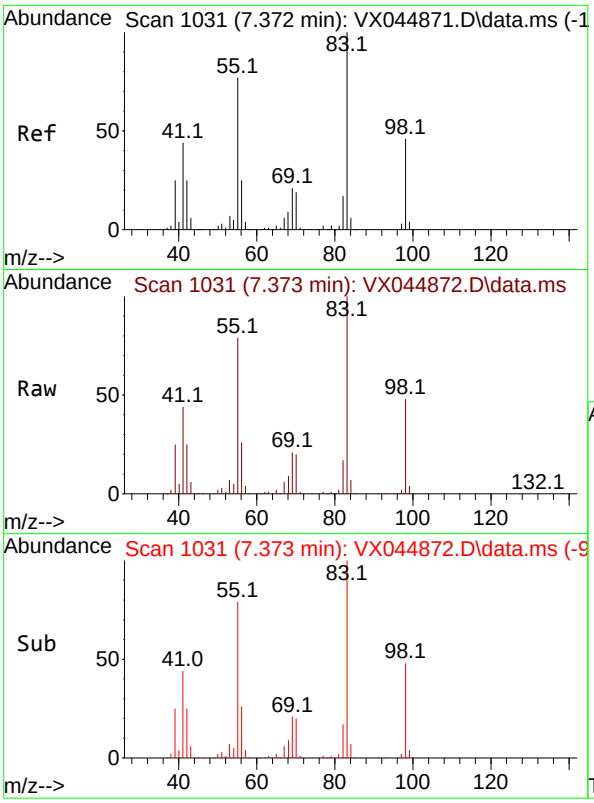


#38
Carbon Tetrachloride
Concen: 96.828 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 210381

Ion	Ratio	Lower	Upper
117	100		
119	93.6	77.5	116.3
121	30.2	25.6	38.4

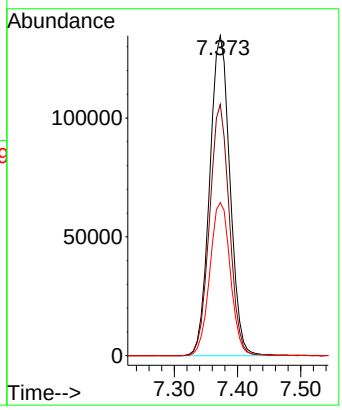




#39
Methylcyclohexane
Concen: 104.554 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 29970

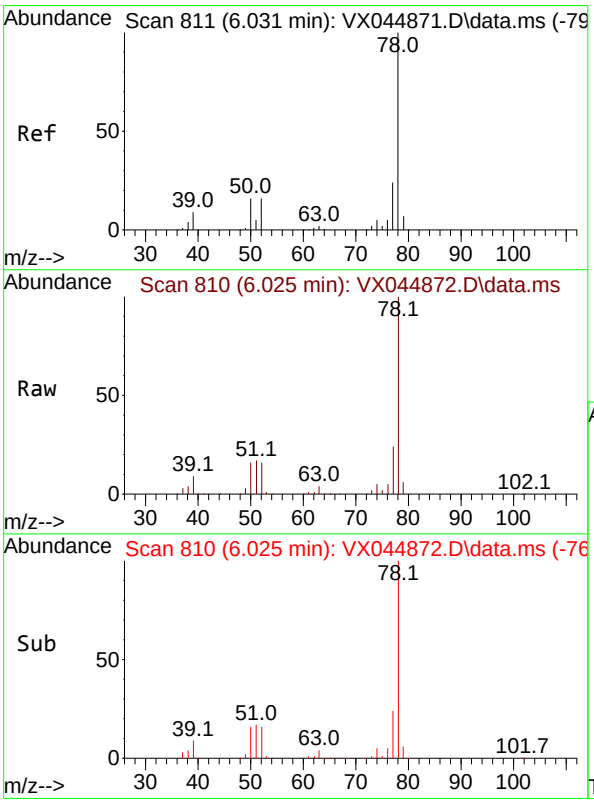
Ion	Ratio	Lower	Upper
83	100		
55	78.5	61.3	91.9
98	47.8	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

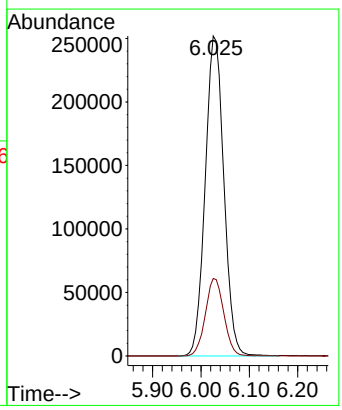
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

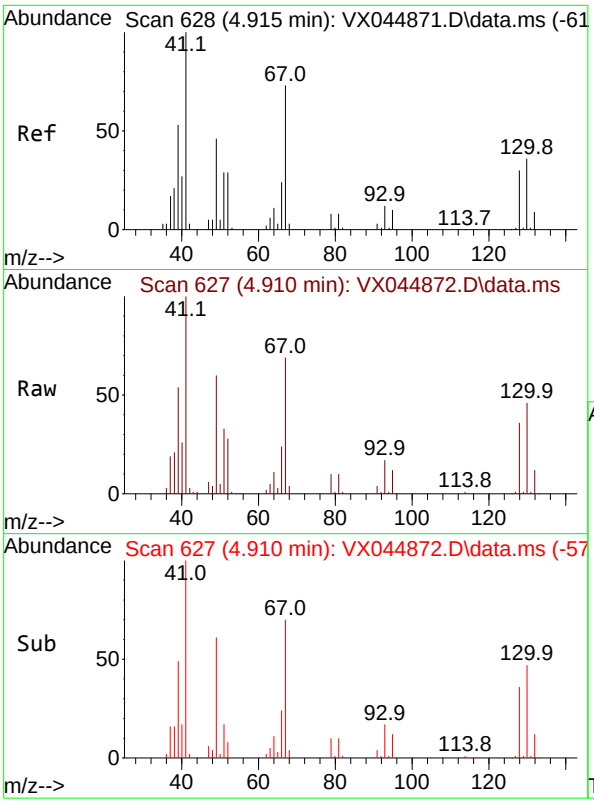


#40
Benzene
Concen: 97.576 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 78 Resp: 675556

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6

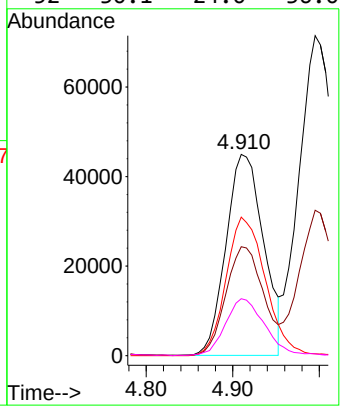




#41
Methacrylonitrile
Concen: 102.745 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 13562

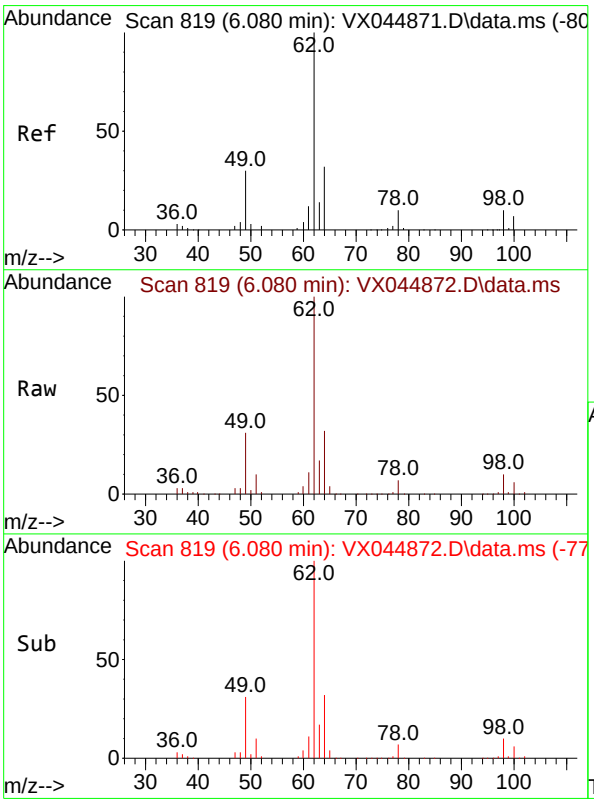
Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.1	64.7
67	72.4	57.0	85.6
52	30.1	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

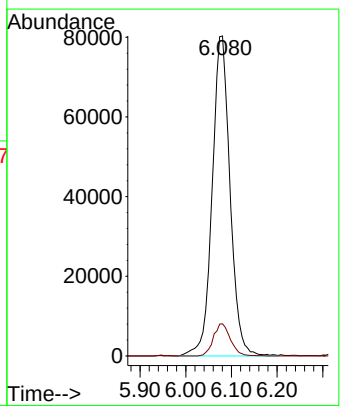
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

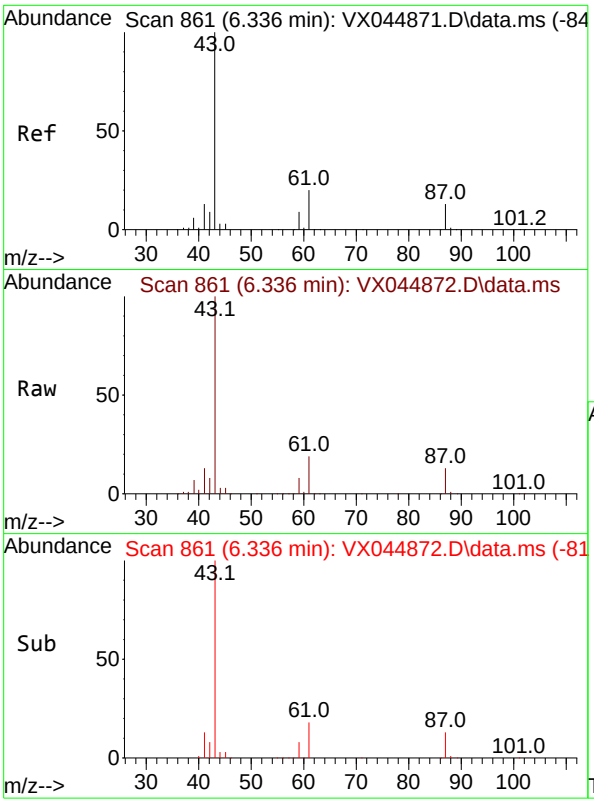


#42
1,2-Dichloroethane
Concen: 98.875 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 218174

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4

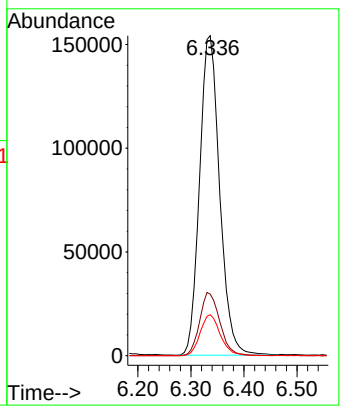




#43
Isopropyl Acetate
Concen: 101.818 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 40548

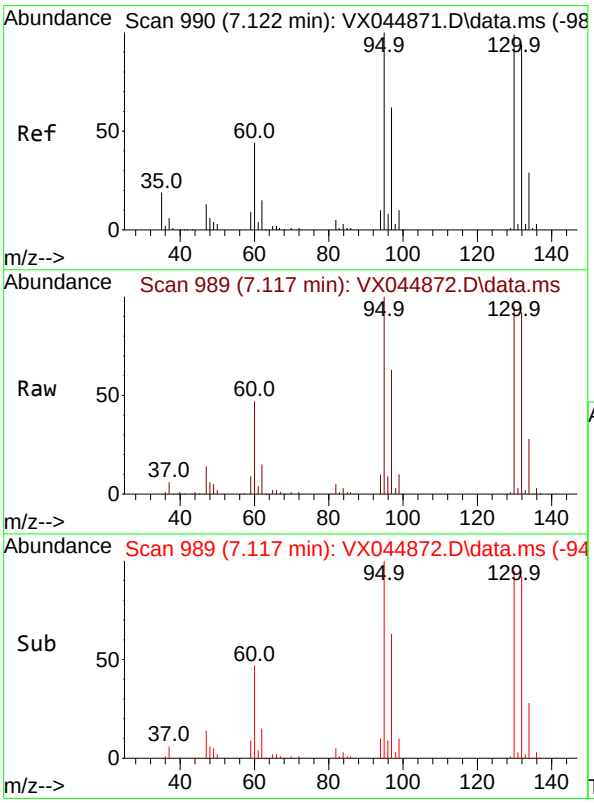
Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.8
87	12.8	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

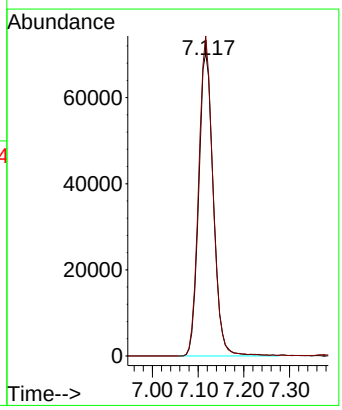
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

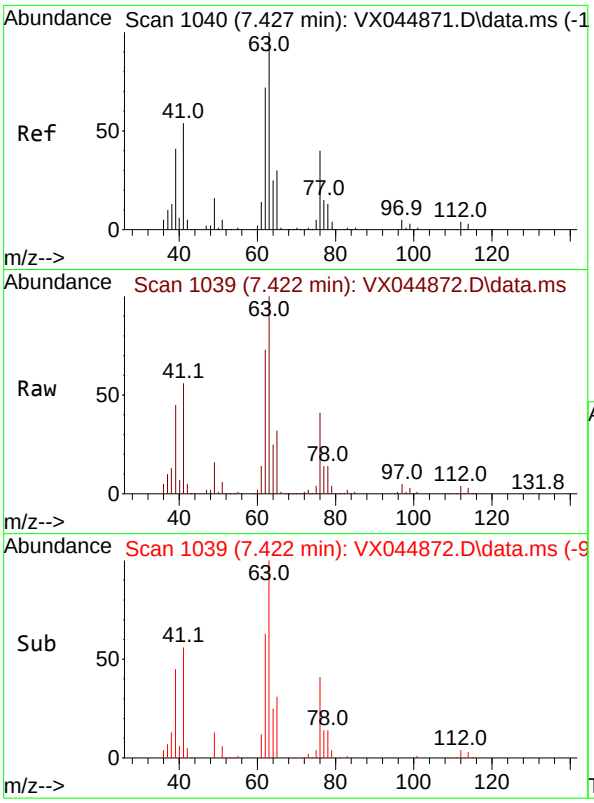


#44
Trichloroethene
Concen: 99.103 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:130 Resp: 156832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	202.4

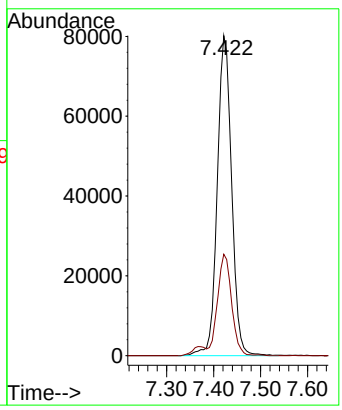




#45
1,2-Dichloropropane
Concen: 98.893 ug/l
RT: 7.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 17033

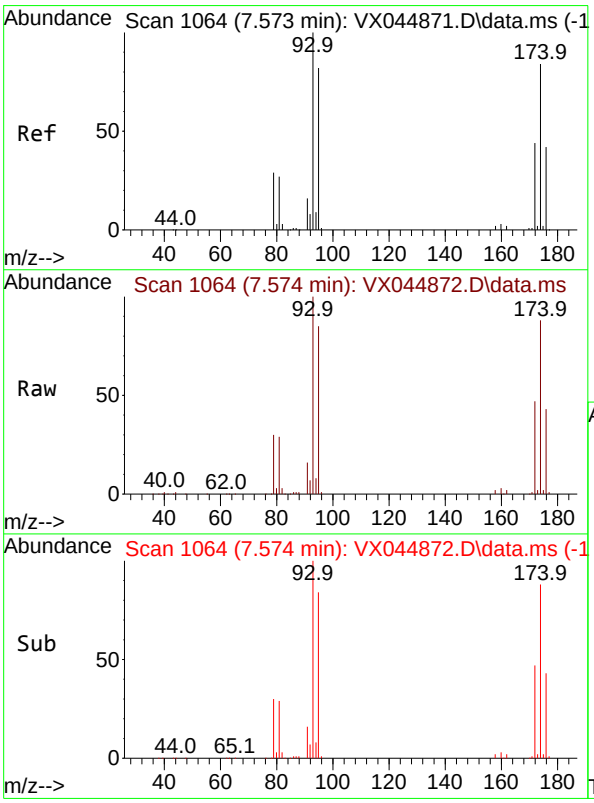
Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

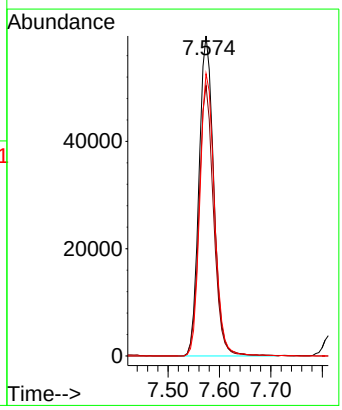
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

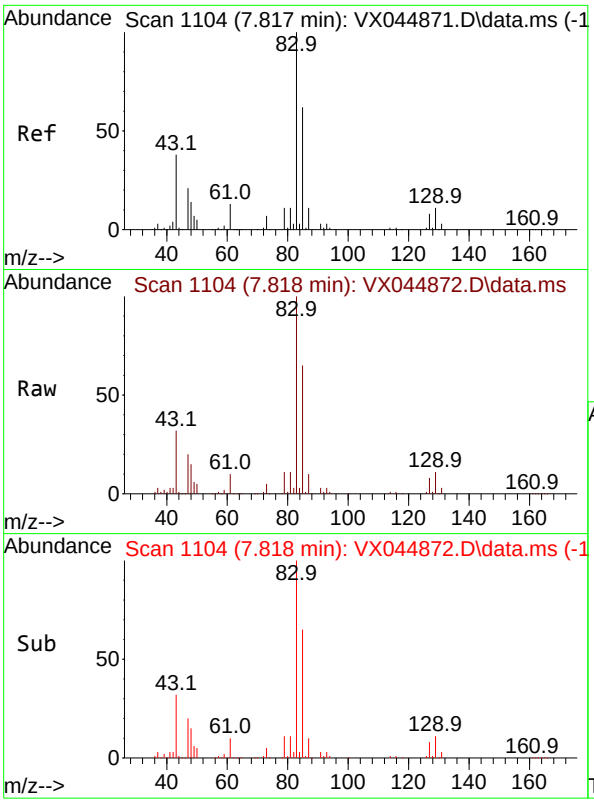


#46
Dibromomethane
Concen: 99.747 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 93 Resp: 119149

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.4
174	88.1	69.9	104.9

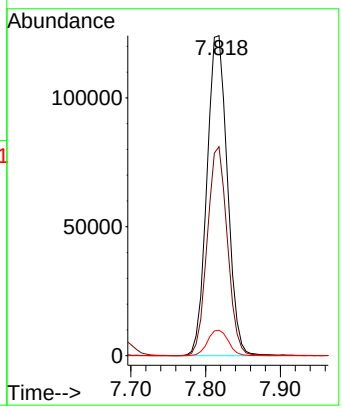




#47
Bromodichloromethane
Concen: 102.254 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 23650

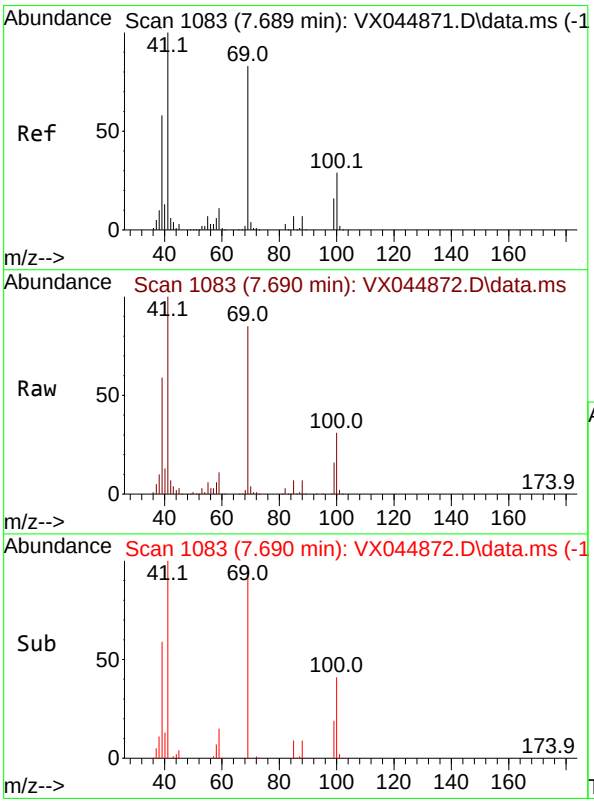
Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.0	75.0
127	8.0	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

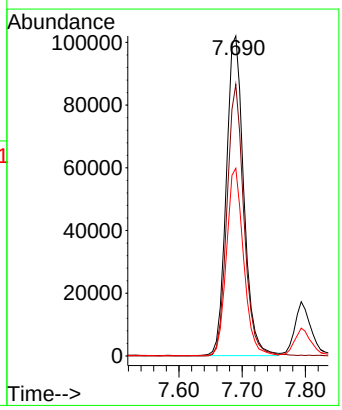
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

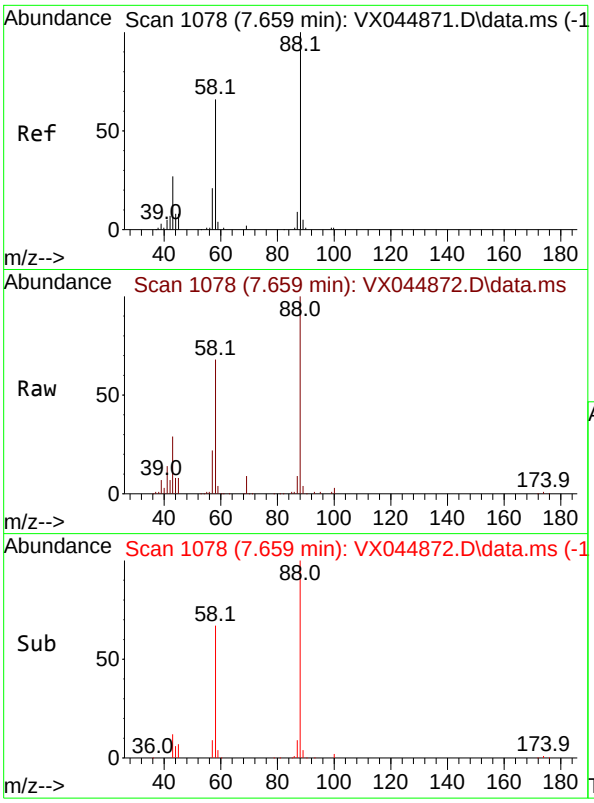


#48
Methyl methacrylate
Concen: 104.321 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 195892

Ion	Ratio	Lower	Upper
41	100		
69	82.1	65.8	98.8
39	57.3	46.4	69.6

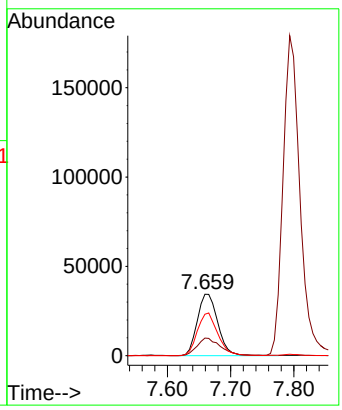




#49
1,4-Dioxane
Concen: 1931.508 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 88 Resp: 7781

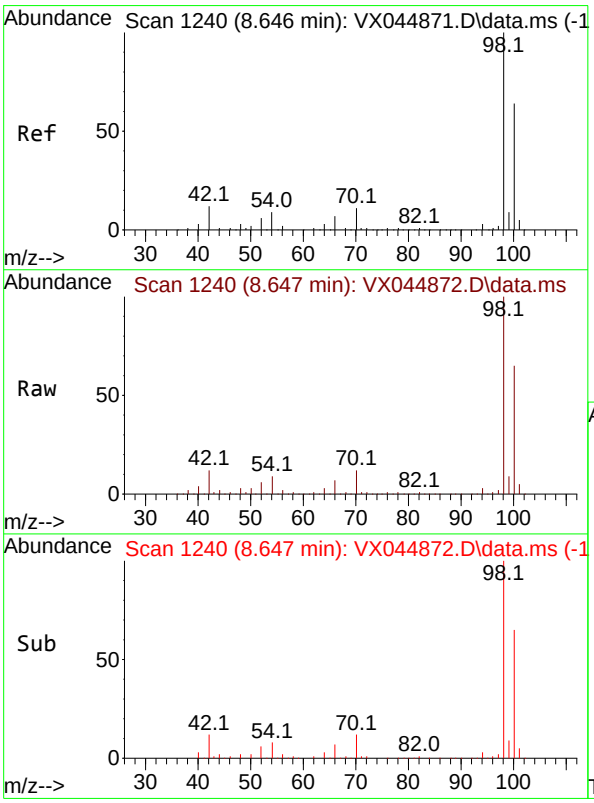
Ion	Ratio	Lower	Upper
88	100		
43	31.8	26.6	39.8
58	68.9	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

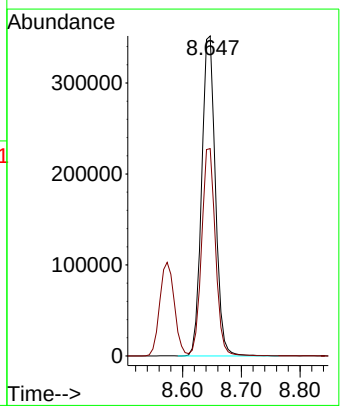
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

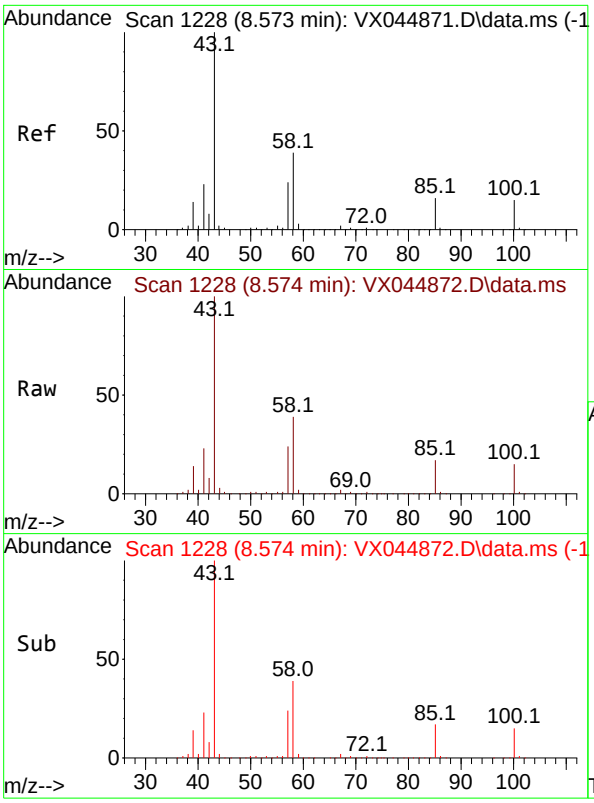


#50
Toluene-d8
Concen: 98.253 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 98 Resp: 570976

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.7	79.1

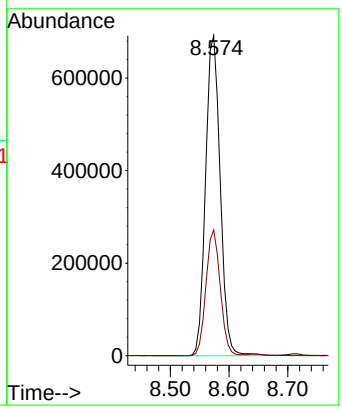




#51
4-Methyl-2-Pentanone
Concen: 494.353 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 119688

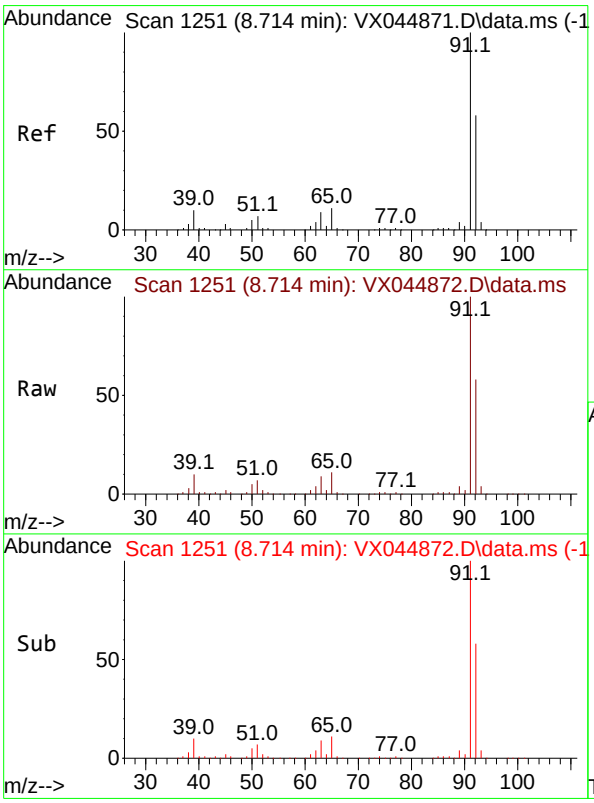
Ion	Ratio	Lower	Upper
43	100		
58	38.4	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

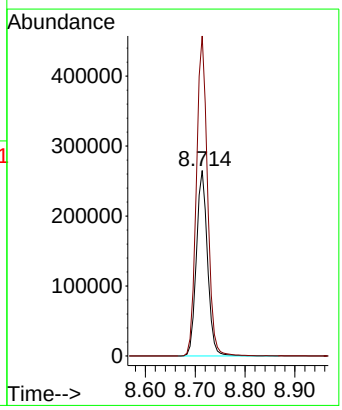
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

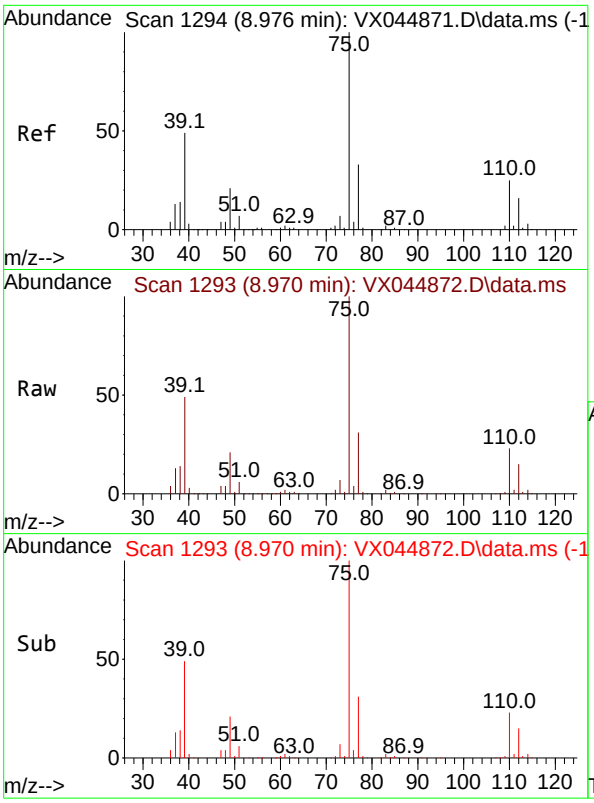


#52
Toluene
Concen: 99.270 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 92 Resp: 409318

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.4	206.2

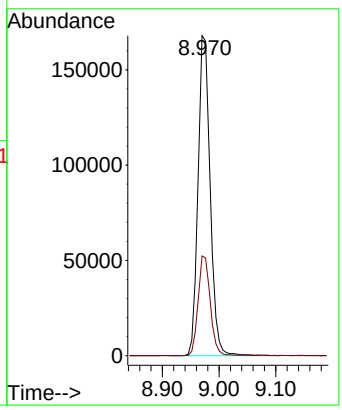




#53
t-1,3-Dichloropropene
Concen: 106.694 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 24972

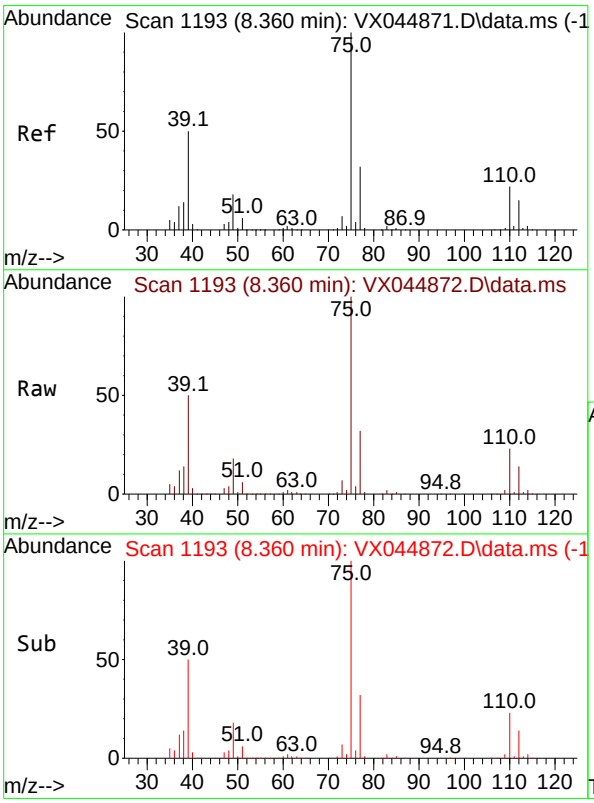
Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

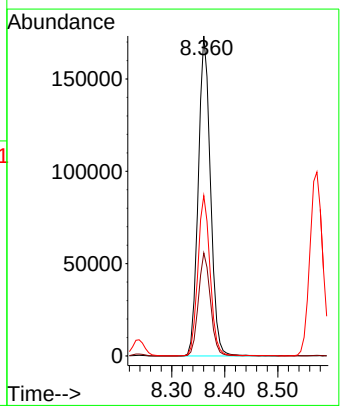
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

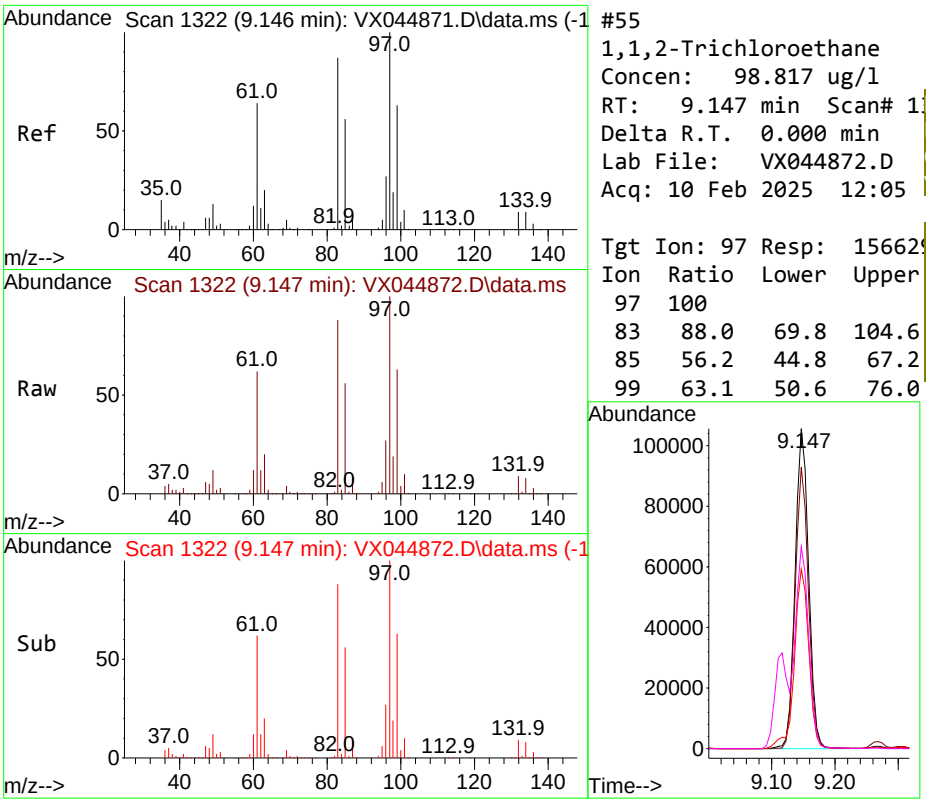


#54
cis-1,3-Dichloropropene
Concen: 106.287 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 277371

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.3	37.9
39	50.1	40.0	60.0





#55
1,1,2-Trichloroethane
Concen: 98.817 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

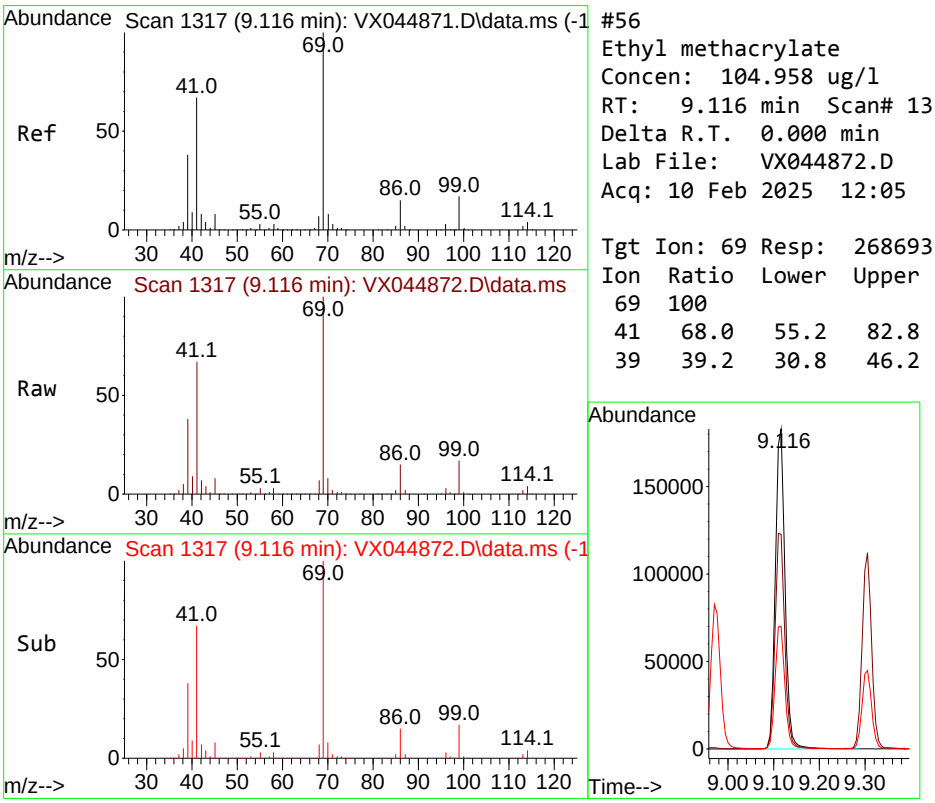
Tgt Ion: 97 Resp: 15662

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.8	104.6
85	56.2	44.8	67.2
99	63.1	50.6	76.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

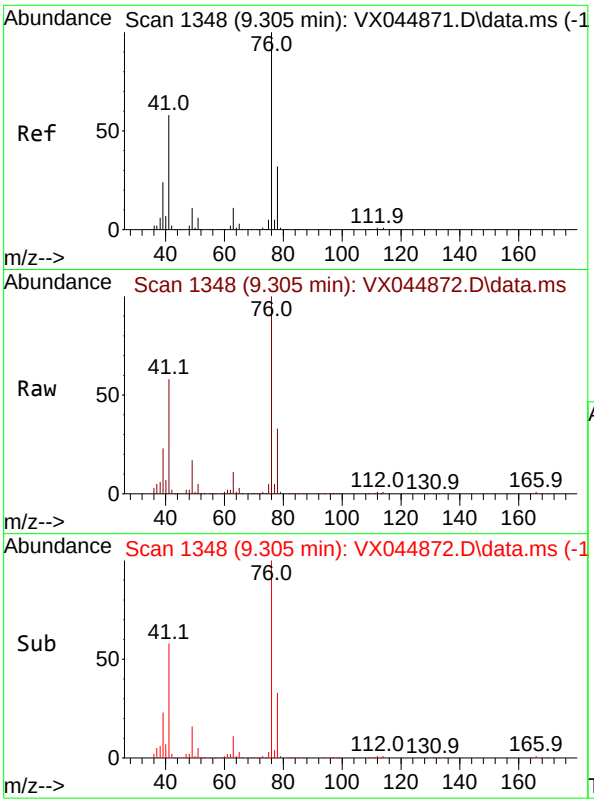
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#56
Ethyl methacrylate
Concen: 104.958 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 69 Resp: 268693

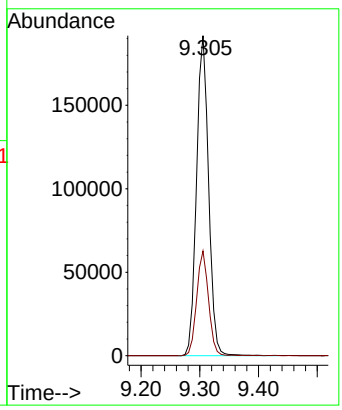
Ion	Ratio	Lower	Upper
69	100		
41	68.0	55.2	82.8
39	39.2	30.8	46.2



#57
1,3-Dichloropropane
Concen: 98.742 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 76 Resp: 27384

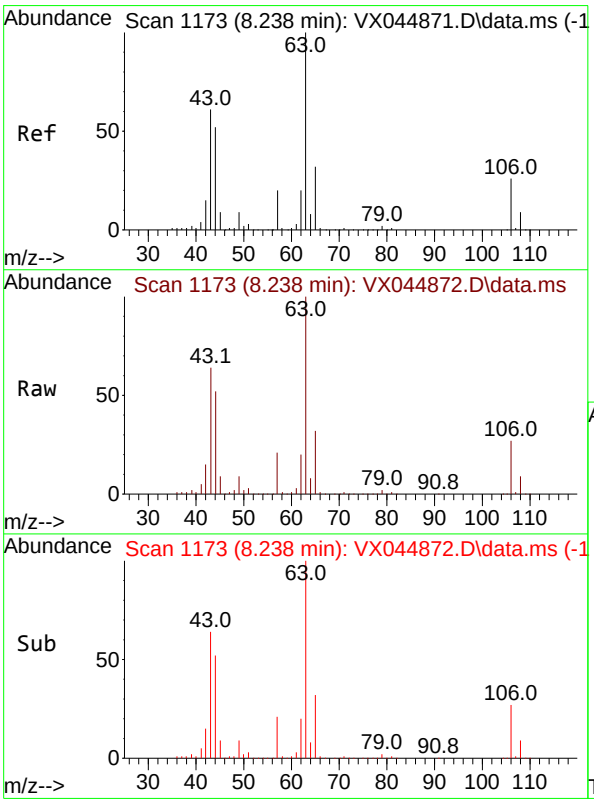
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

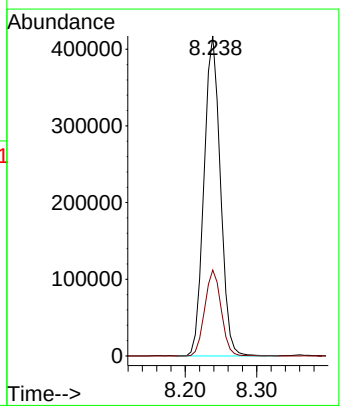
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

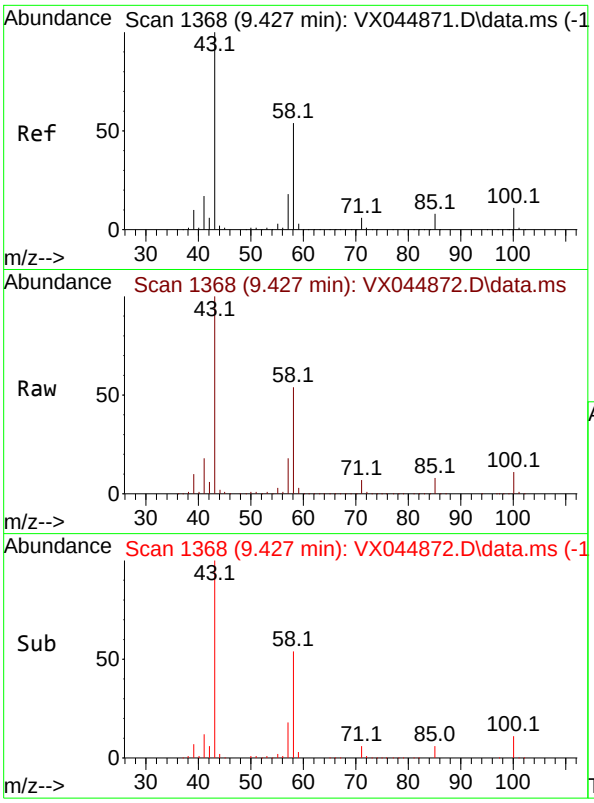


#58
2-Chloroethyl Vinyl ether
Concen: 528.405 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 664198

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.3	31.9

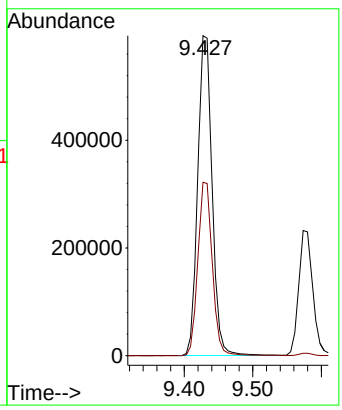




#59
2-Hexanone
Concen: 499.819 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 87190

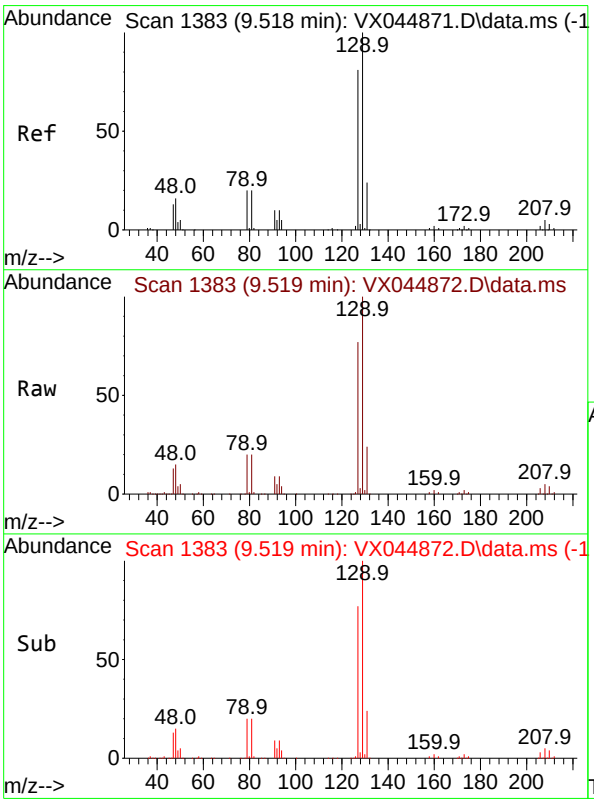
Ion	Ratio	Lower	Upper
43	100		
58	54.4	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

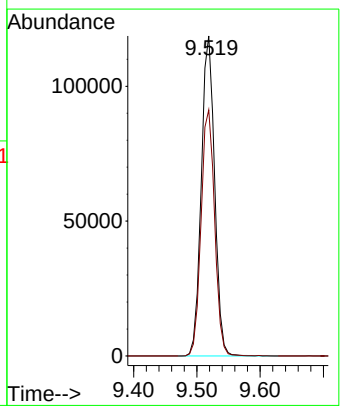
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

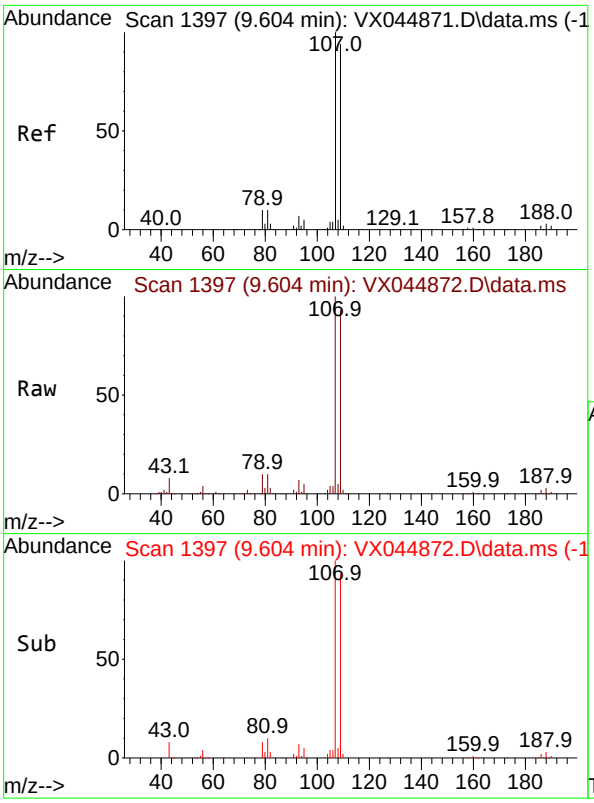


#60
Dibromochloromethane
Concen: 102.557 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:129 Resp: 173848

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.3

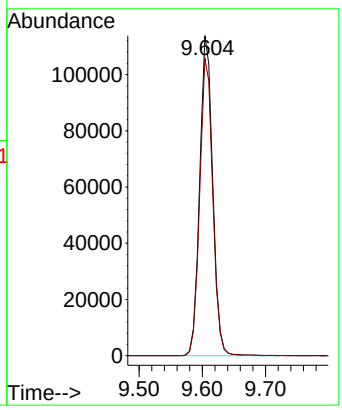




#61
1,2-Dibromoethane
Concen: 101.451 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:107 Resp: 16298

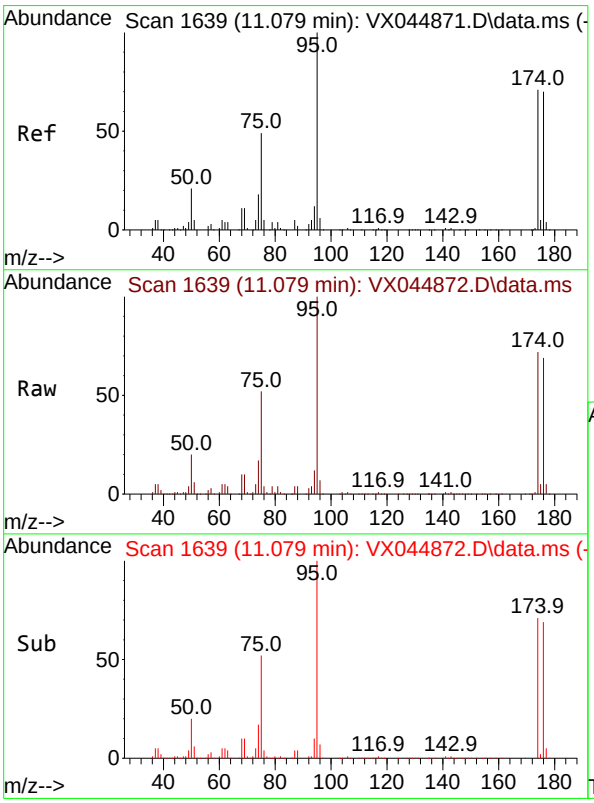
Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

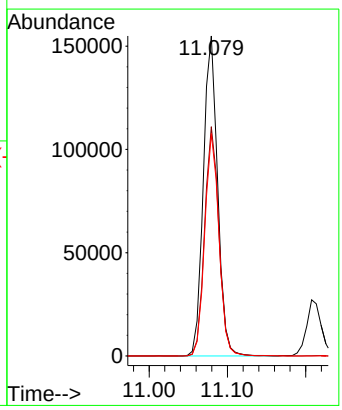
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

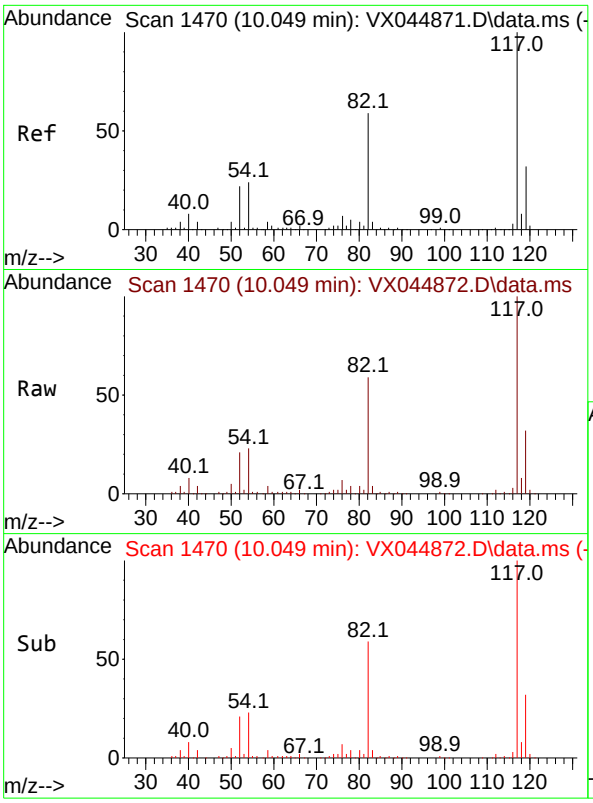


#62
4-Bromofluorobenzene
Concen: 100.079 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 95 Resp: 196066

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	142.6
176	68.8	0.0	141.6

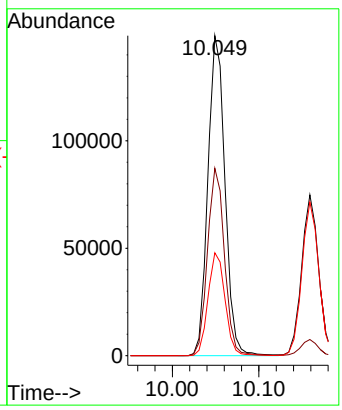




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 20388

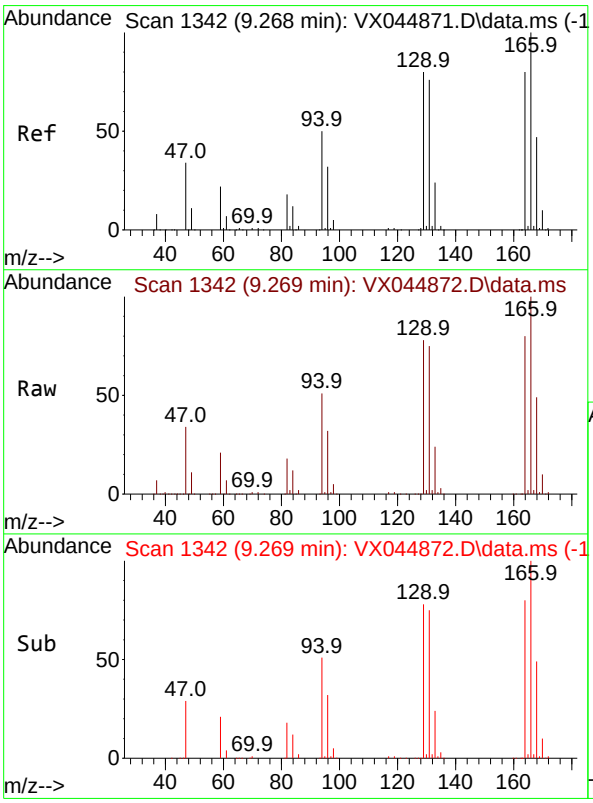
Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.5	71.3
119	32.2	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

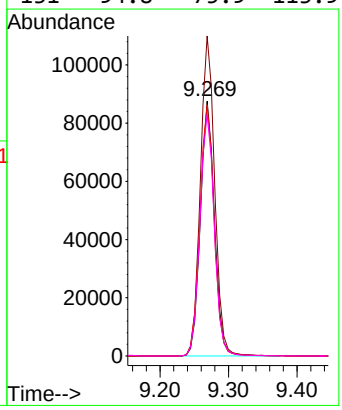
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

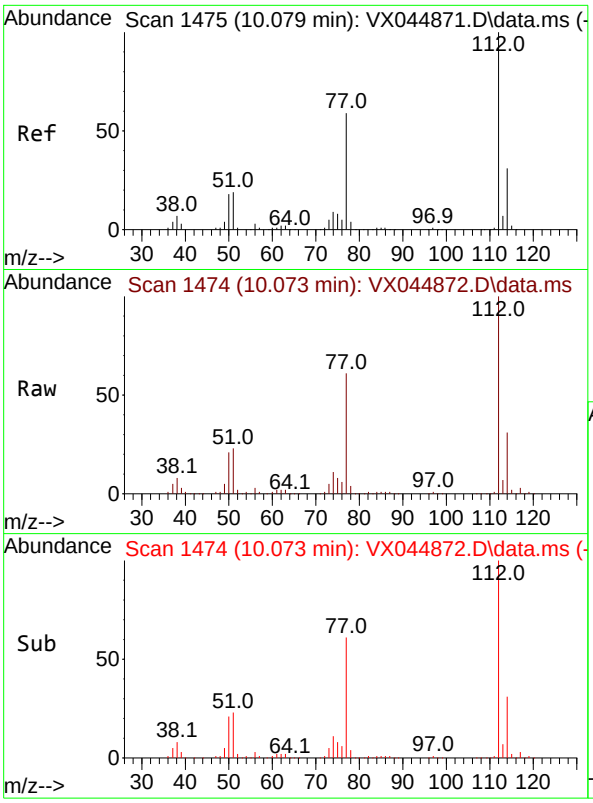


#64
Tetrachloroethene
Concen: 97.447 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:164 Resp: 125294

Ion	Ratio	Lower	Upper
164	100		
166	125.6	100.4	150.6
129	98.6	79.9	119.9
131	94.8	75.9	113.9

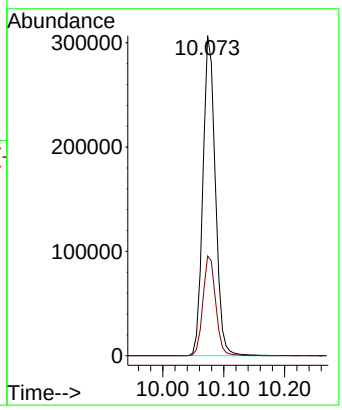




#65
Chlorobenzene
Concen: 99.694 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:112 Resp: 43656

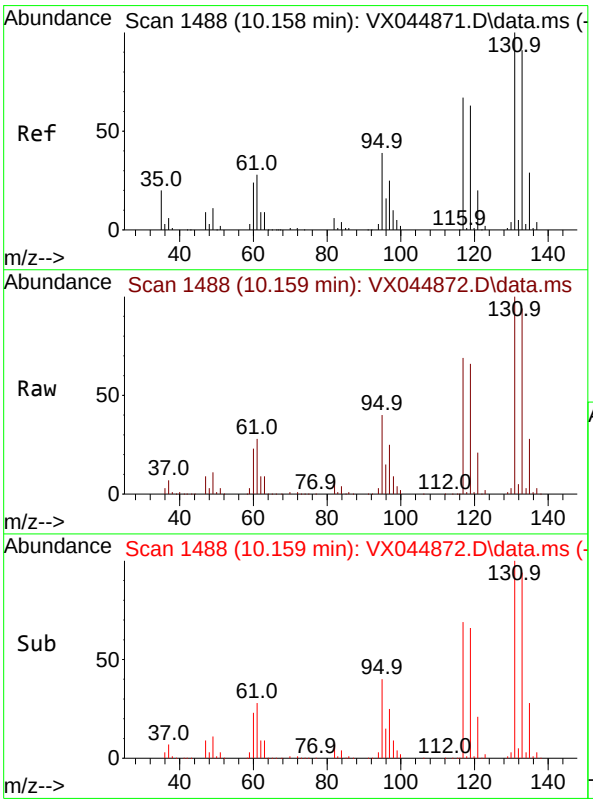
Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

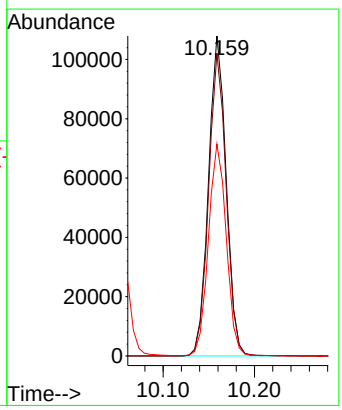
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

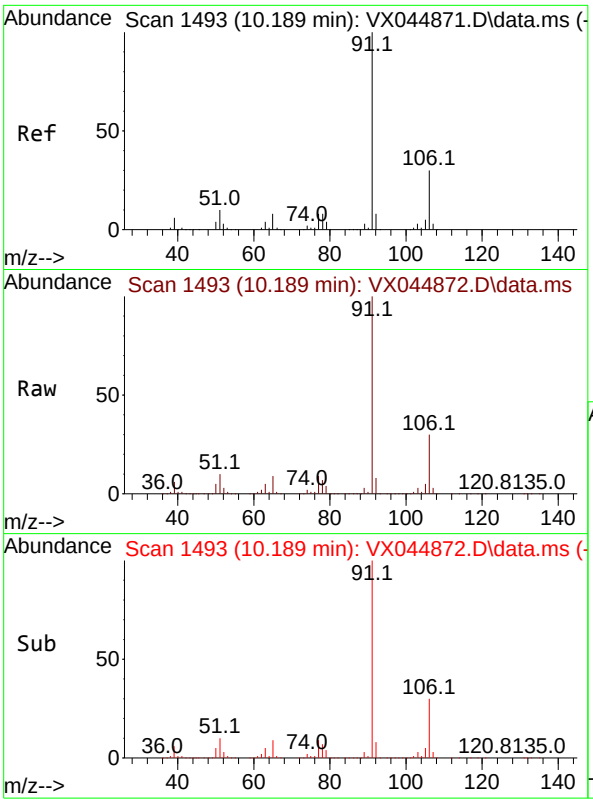


#66
1,1,1,2-Tetrachloroethane
Concen: 102.728 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:131 Resp: 144793

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.1	141.3
119	67.2	33.6	100.6





#67
Ethyl Benzene
Concen: 101.477 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

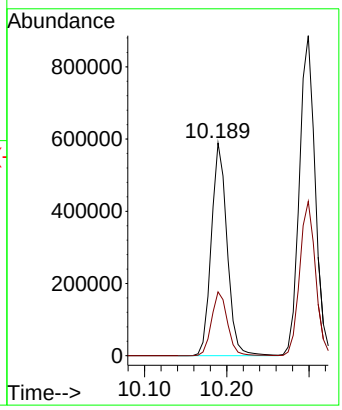
Tgt Ion: 91 Resp: 78418

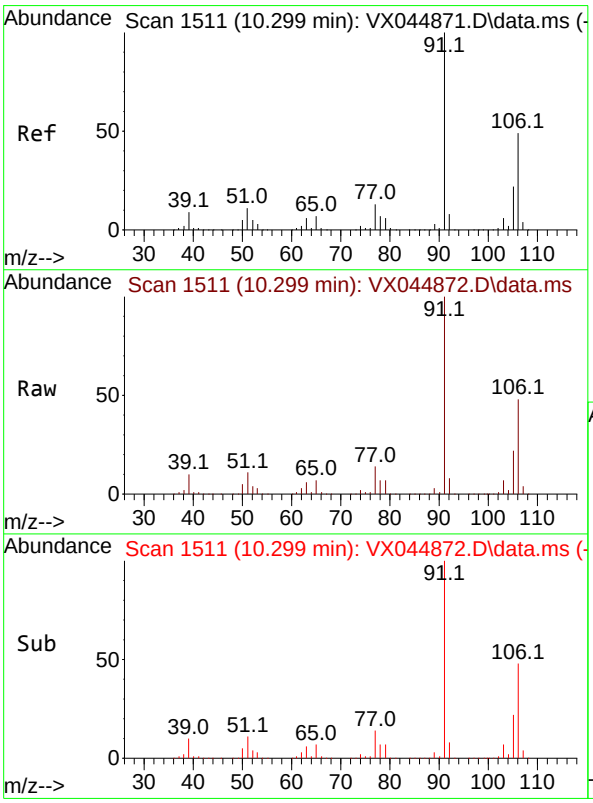
Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

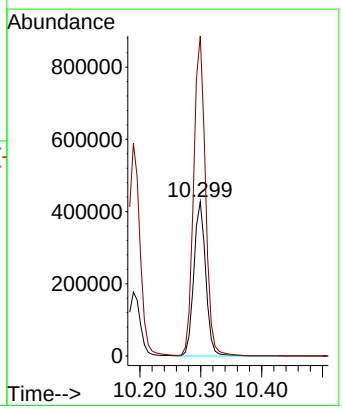


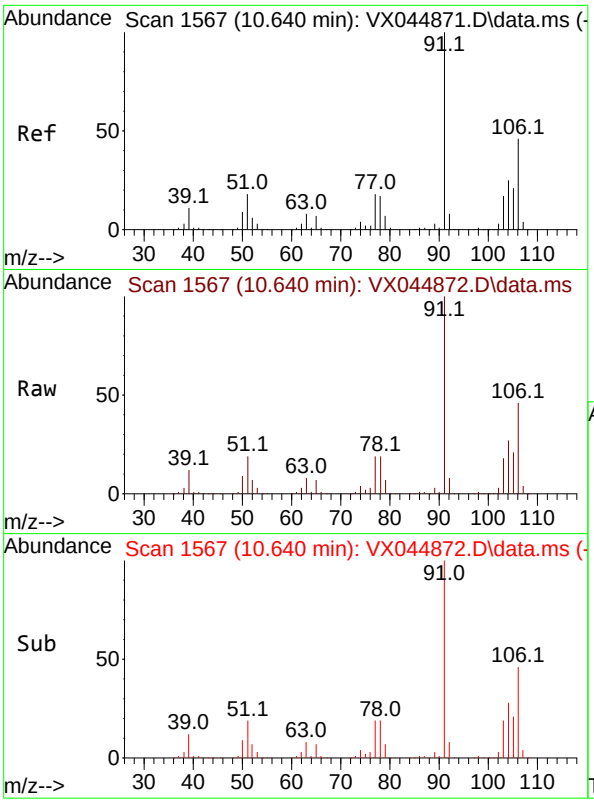


#68
m/p-Xylenes
Concen: 201.907 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:106 Resp: 575559

Ion	Ratio	Lower	Upper
106	100		
91	207.1	164.3	246.5

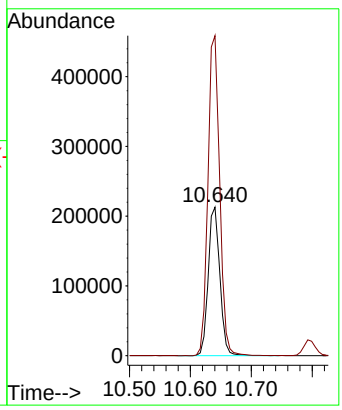




#69
o-Xylene
Concen: 98.530 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:106 Resp: 28183

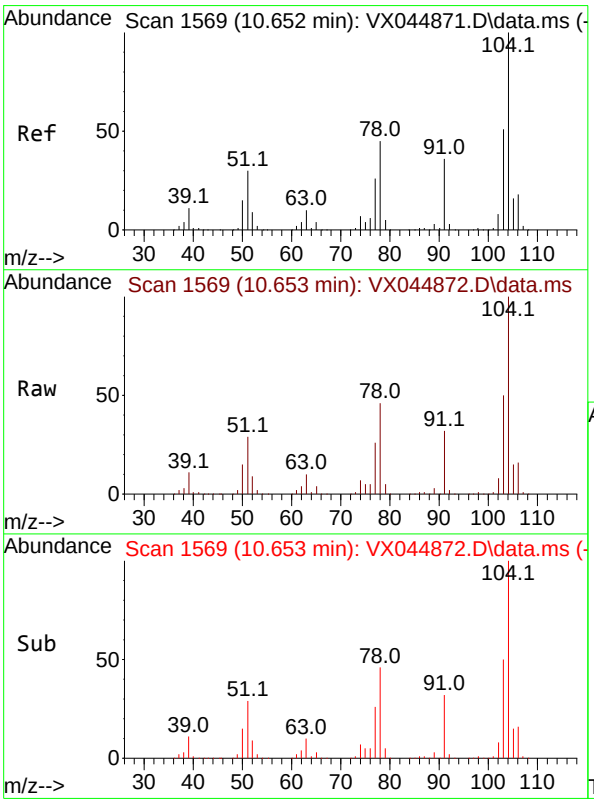
Ion	Ratio	Lower	Upper
106	100		
91	217.3	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

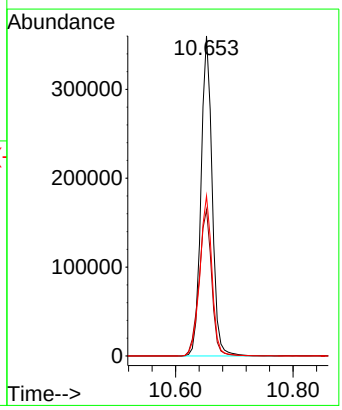
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

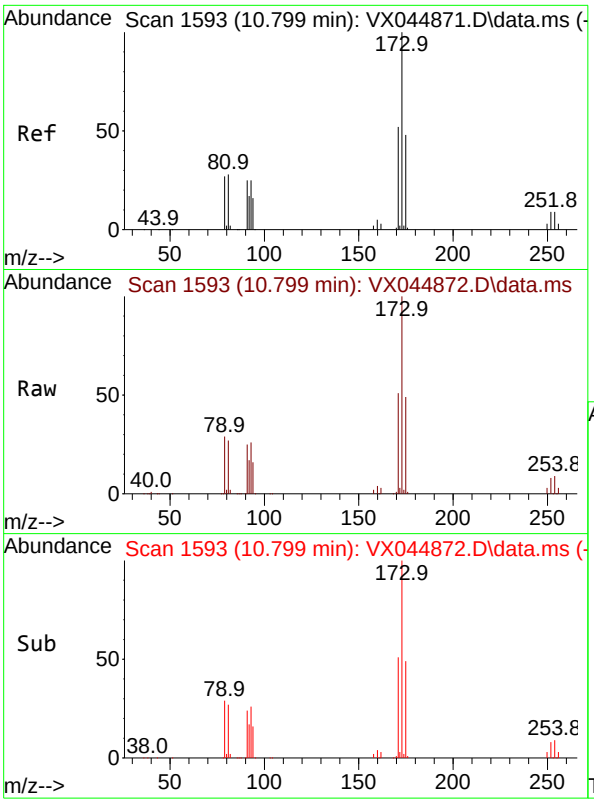


#70
Styrene
Concen: 102.728 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:104 Resp: 473403

Ion	Ratio	Lower	Upper
104	100		
78	51.5	40.5	60.7
103	54.5	43.6	65.4

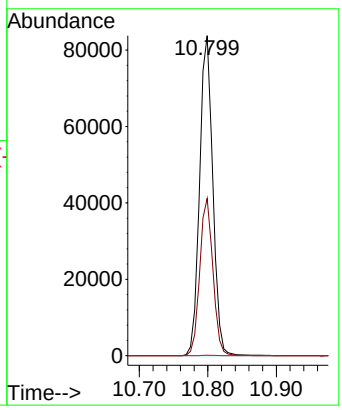




#71
Bromoform
Concen: 106.827 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:173 Resp: 11237

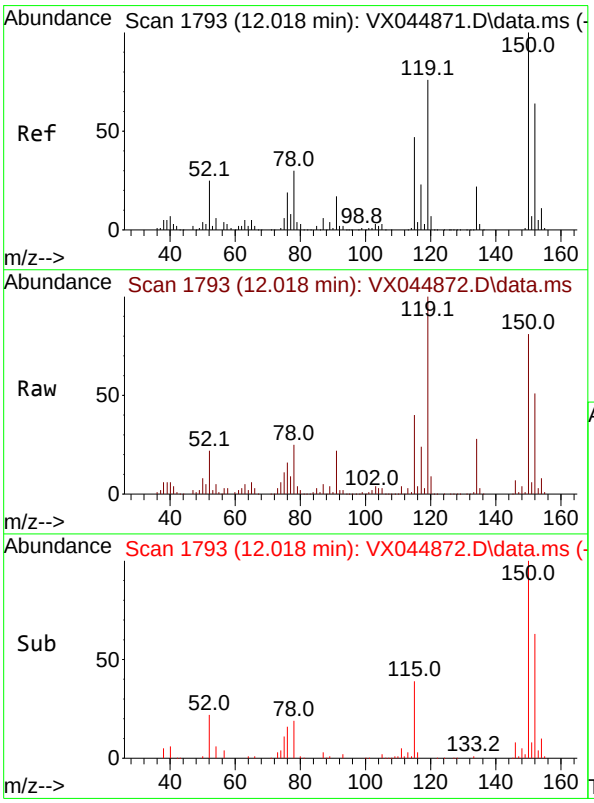
Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	72.8
254	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

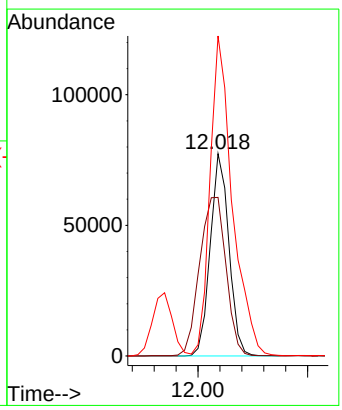
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

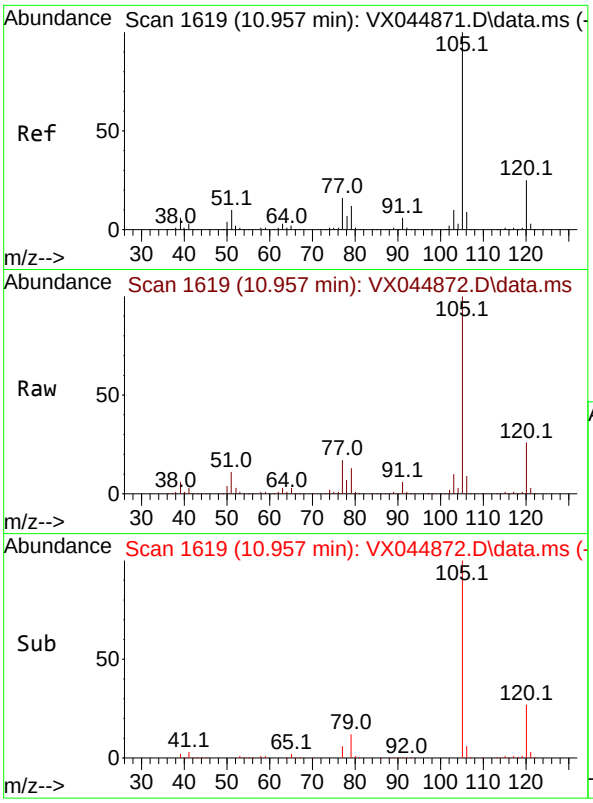


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:152 Resp: 91371

Ion	Ratio	Lower	Upper
152	100		
115	111.2	43.4	130.1
150	189.1	0.0	350.4

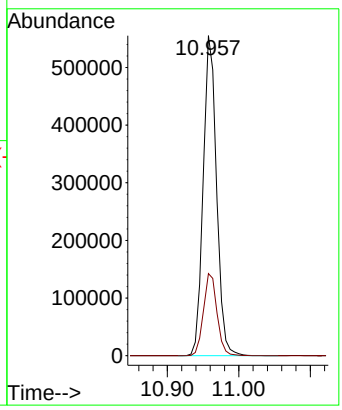




#73
Isopropylbenzene
Concen: 97.854 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 71992

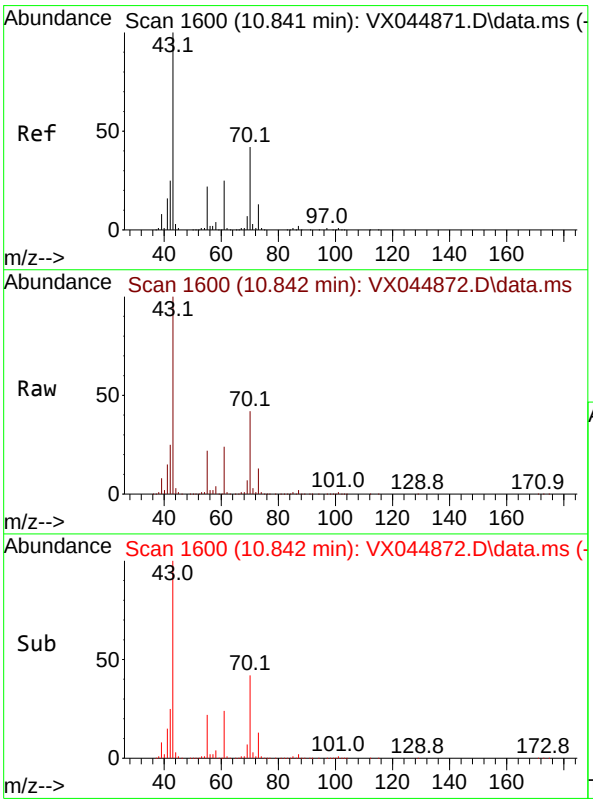
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

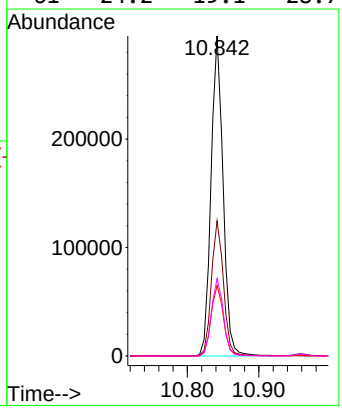
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

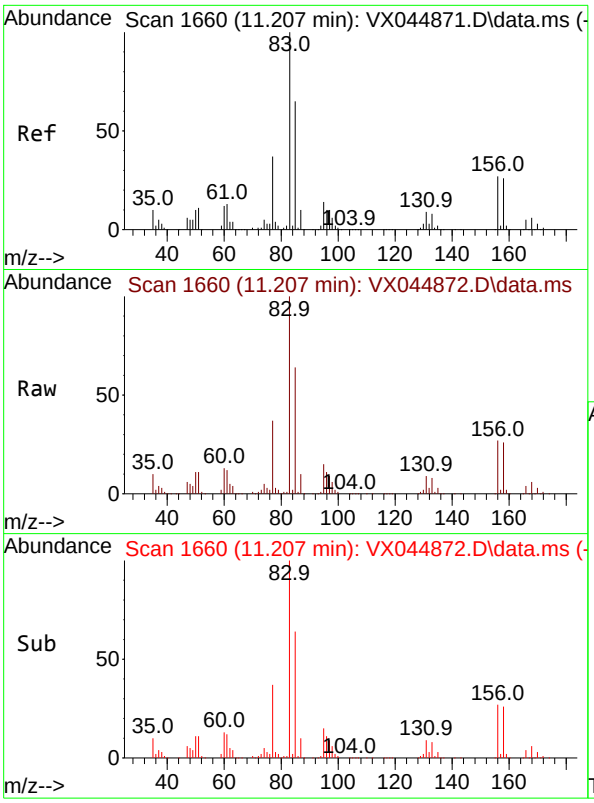


#74
N-amyl acetate
Concen: 103.687 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 345193

Ion	Ratio	Lower	Upper
43	100		
70	42.4	33.7	50.5
55	22.6	18.6	27.8
61	24.2	19.1	28.7

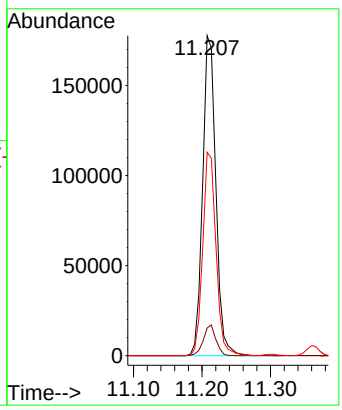




#75
1,1,2,2-Tetrachloroethane
Concen: 94.351 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 23852

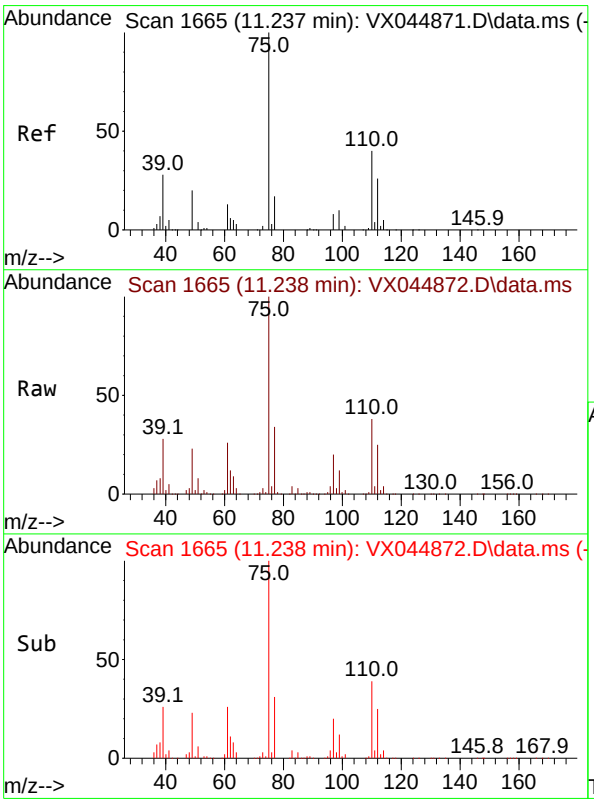
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	63.9	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

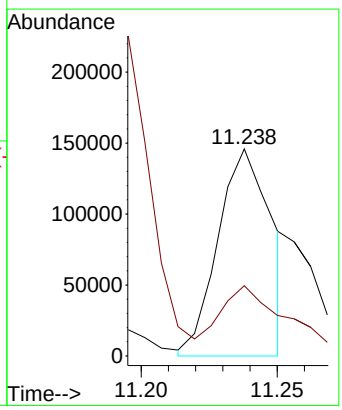
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

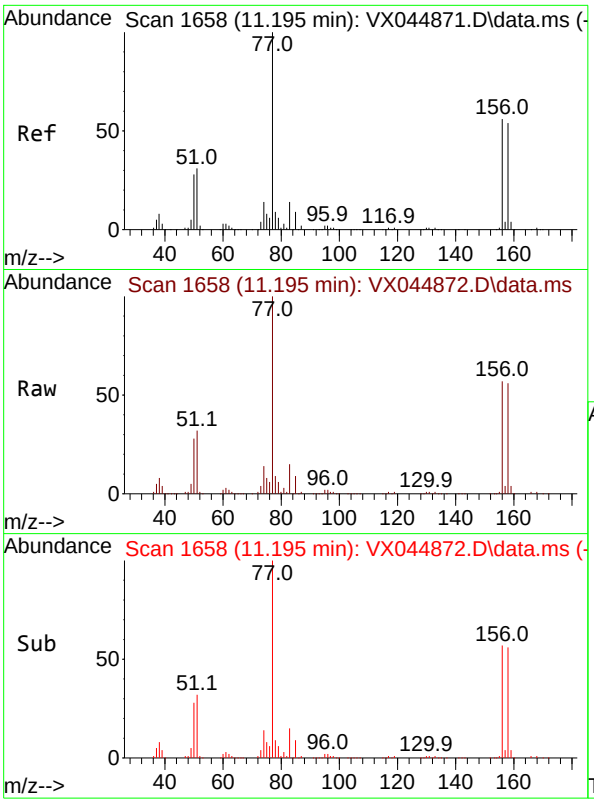


#76
1,2,3-Trichloropropane
Concen: 97.896 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 198320

Ion	Ratio	Lower	Upper
75	100		
77	43.4	21.9	65.7

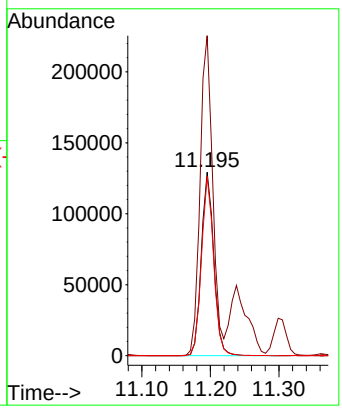




#77
Bromobenzene
Concen: 98.230 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:156 Resp: 16384

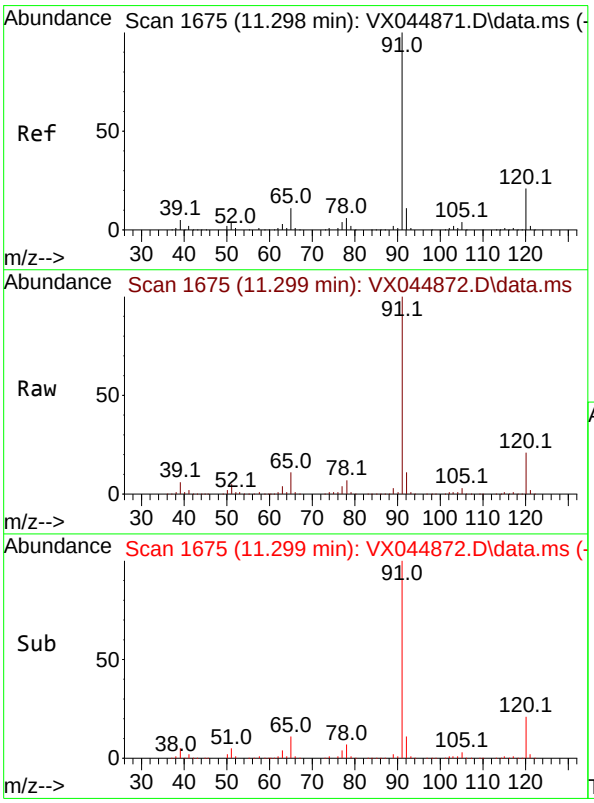
Ion	Ratio	Lower	Upper
156	100		
77	176.7	88.4	265.3
158	95.7	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

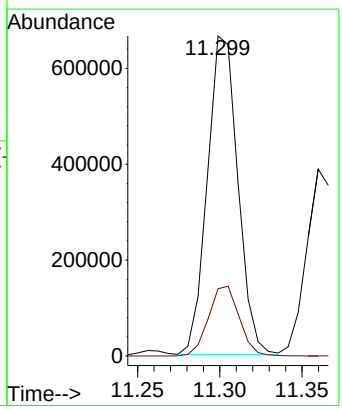
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

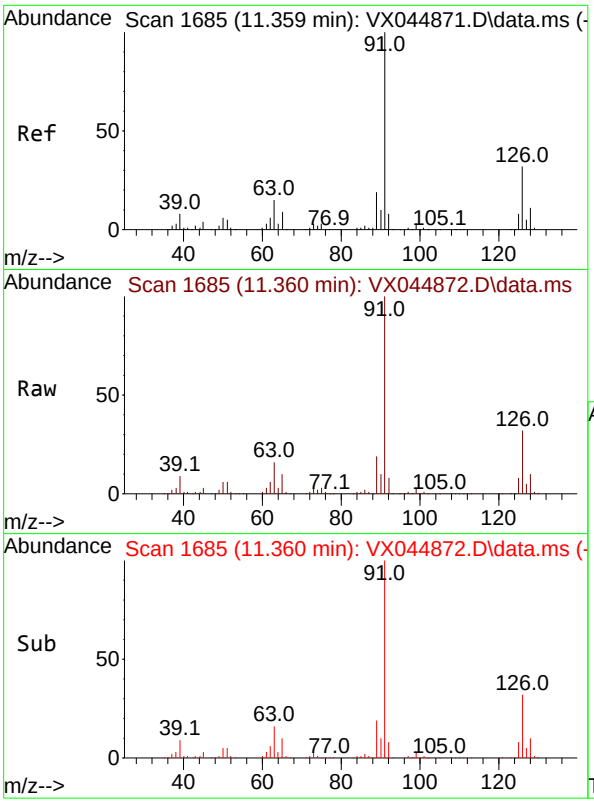


#78
n-propylbenzene
Concen: 101.132 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 858793

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3

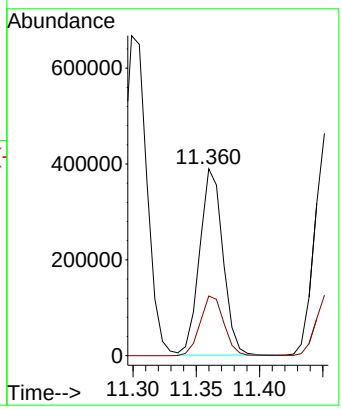




#79
2-Chlorotoluene
Concen: 95.257 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 49714

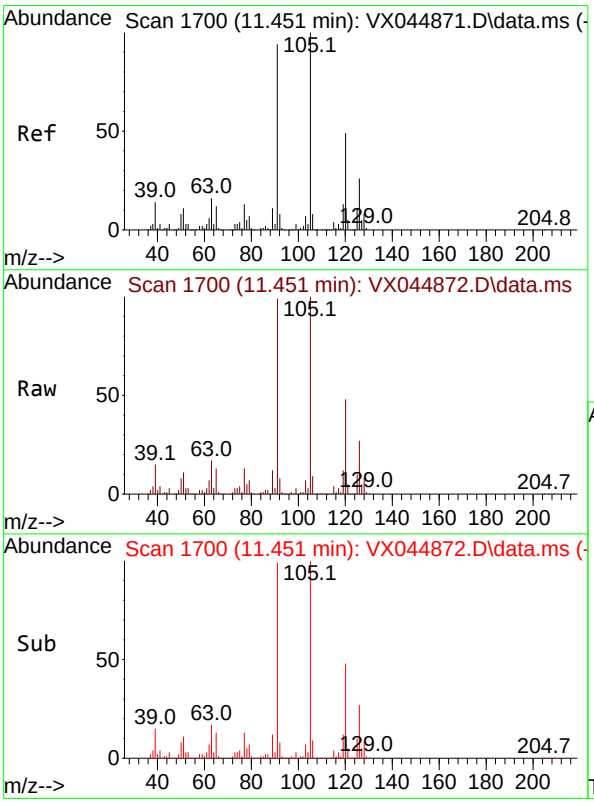
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

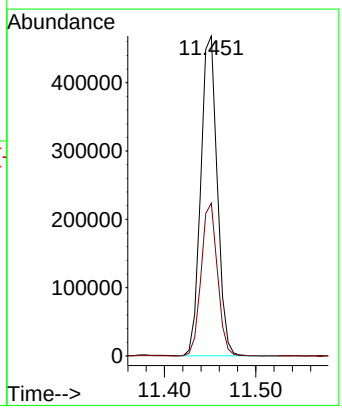
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

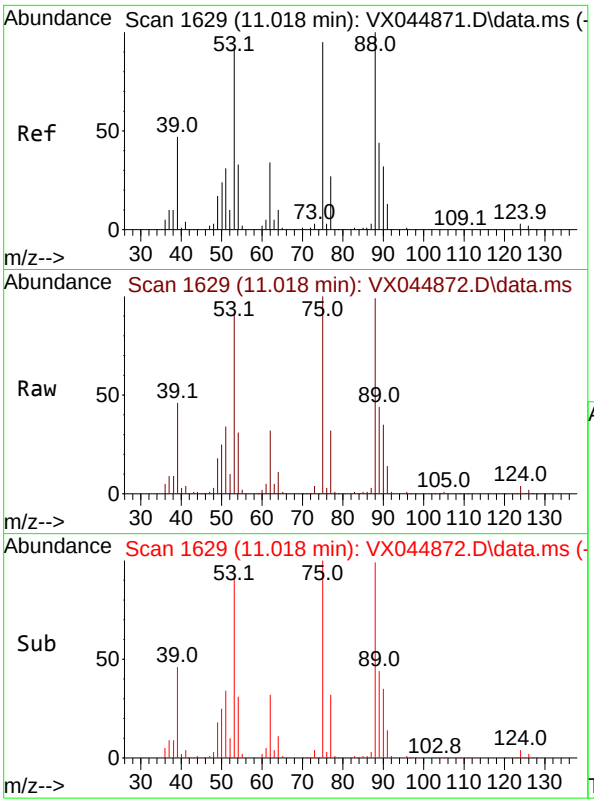


#80
1,3,5-Trimethylbenzene
Concen: 97.966 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 584885

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 106.006 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

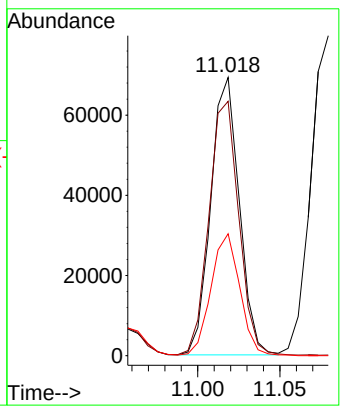
Tgt Ion: 75 Resp: 8348

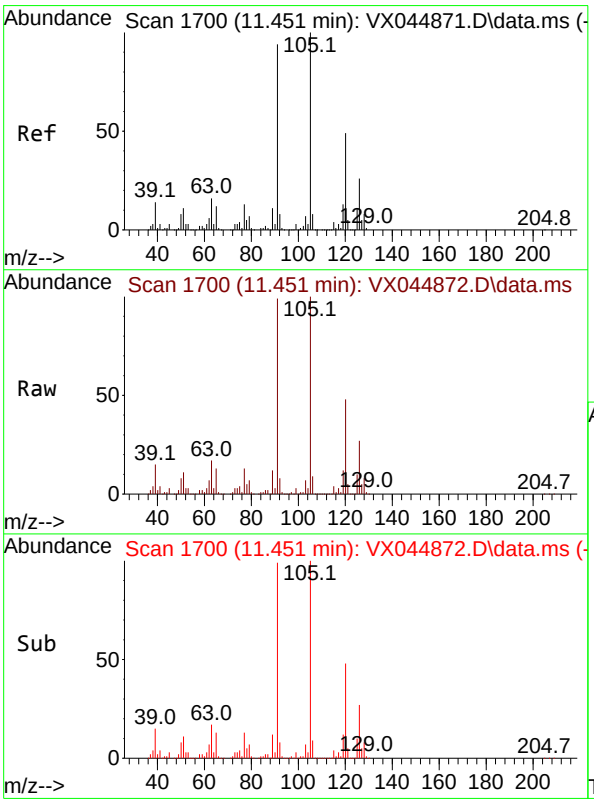
Ion	Ratio	Lower	Upper
75	100		
53	95.9	78.0	117.0
89	44.6	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

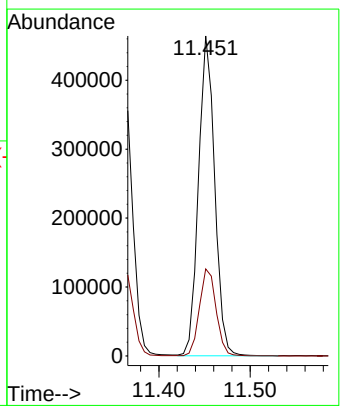


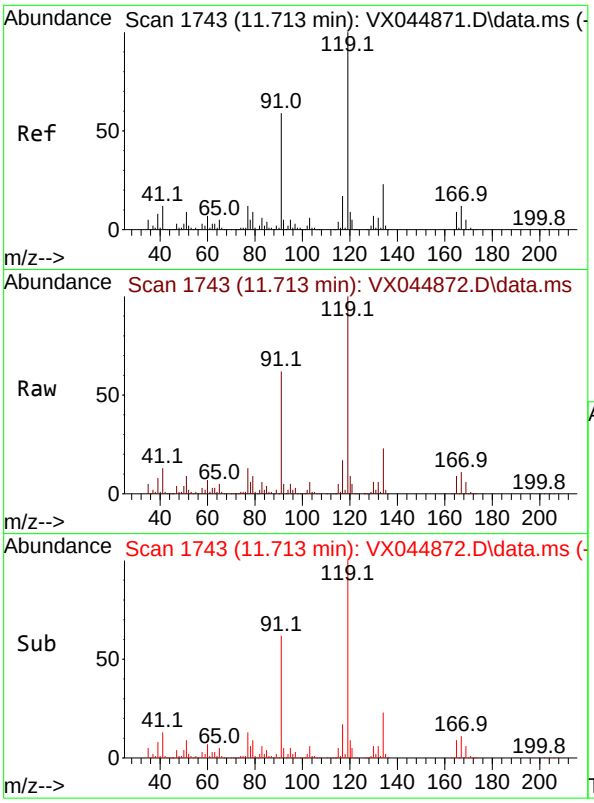


#82
4-Chlorotoluene
Concen: 98.634 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 569510

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.2	42.6

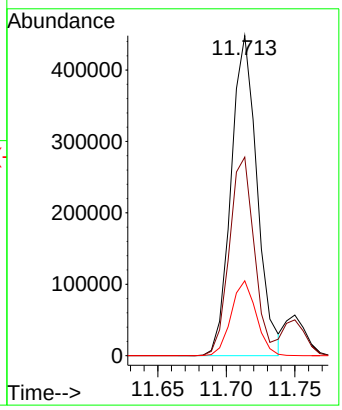




#83
tert-Butylbenzene
Concen: 97.917 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:119 Resp: 59139

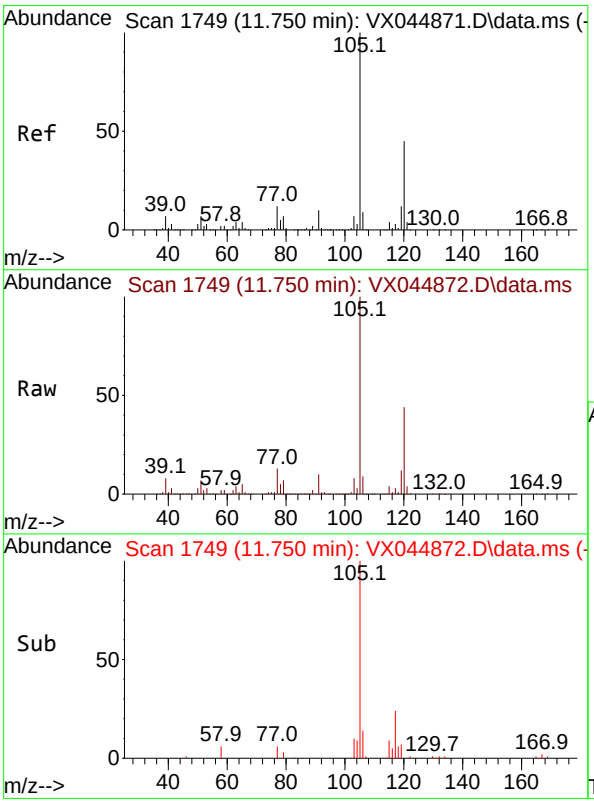
Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.1	87.4
134	22.6	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

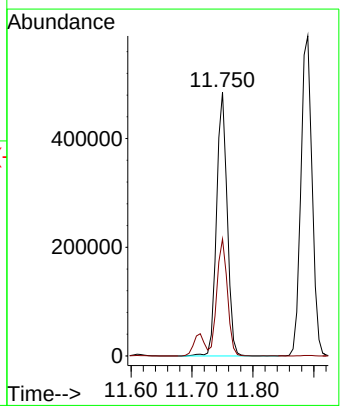
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

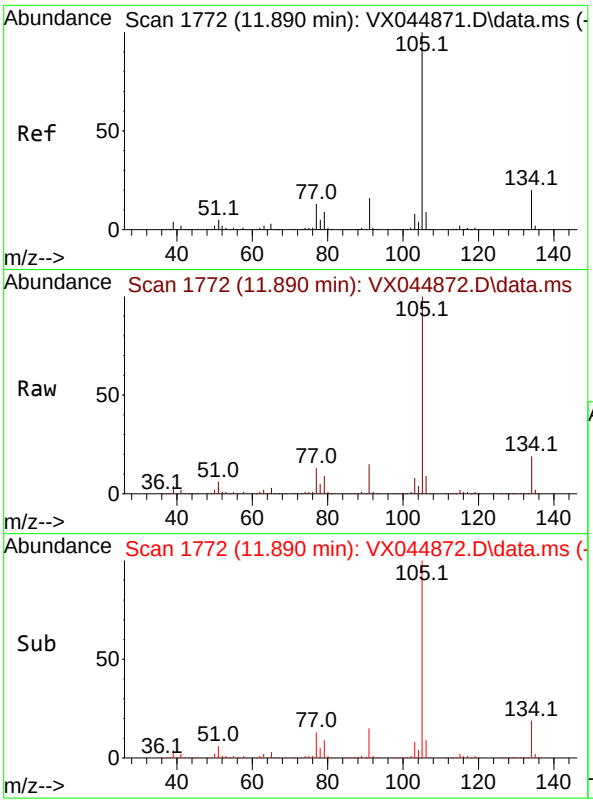


#84
1,2,4-Trimethylbenzene
Concen: 99.851 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 588385

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.0





#85
sec-Butylbenzene
Concen: 100.219 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

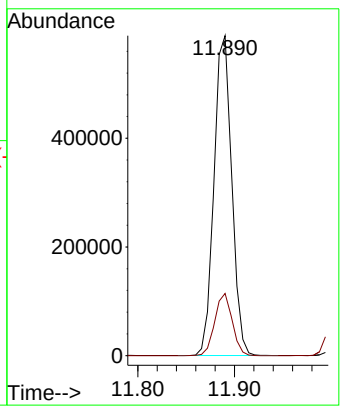
Tgt Ion:105 Resp: 74953

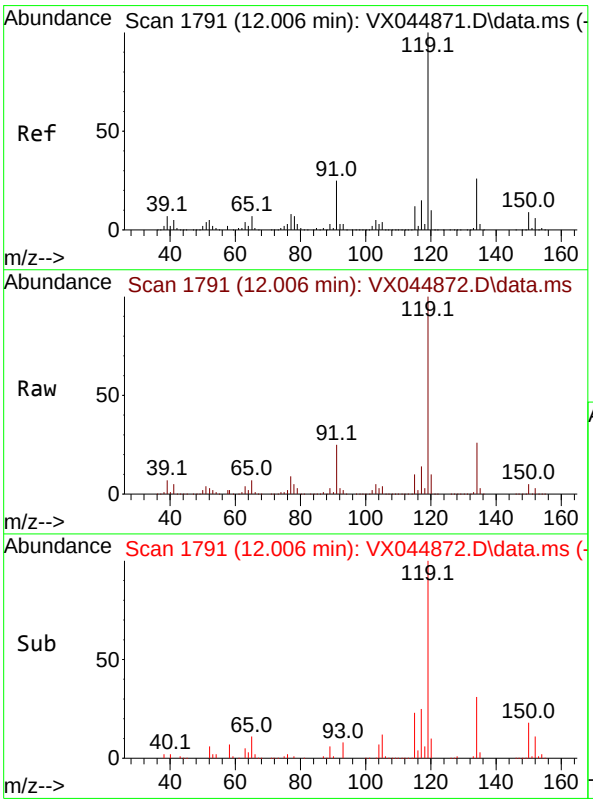
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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

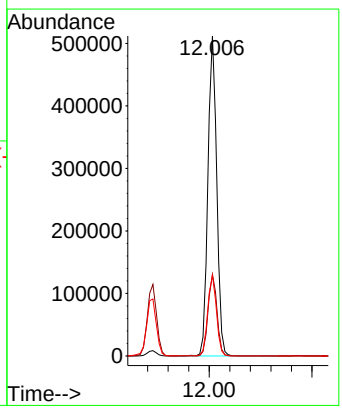


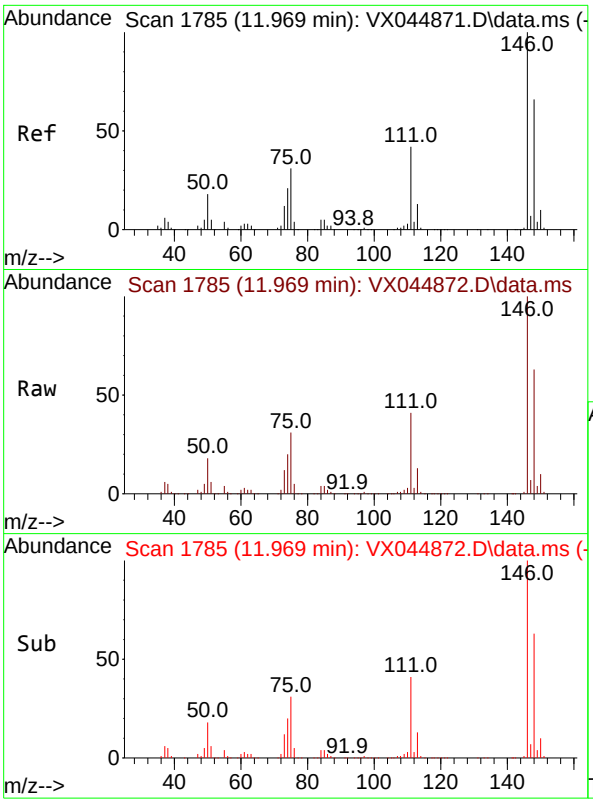


#86
p-Isopropyltoluene
Concen: 101.019 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:119 Resp: 607577

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	38.9
91	25.0	12.1	36.3

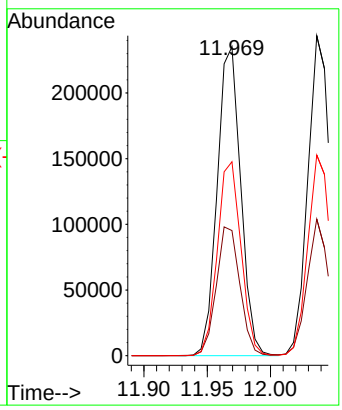




#87
1,3-Dichlorobenzene
Concen: 99.061 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:146 Resp: 30385

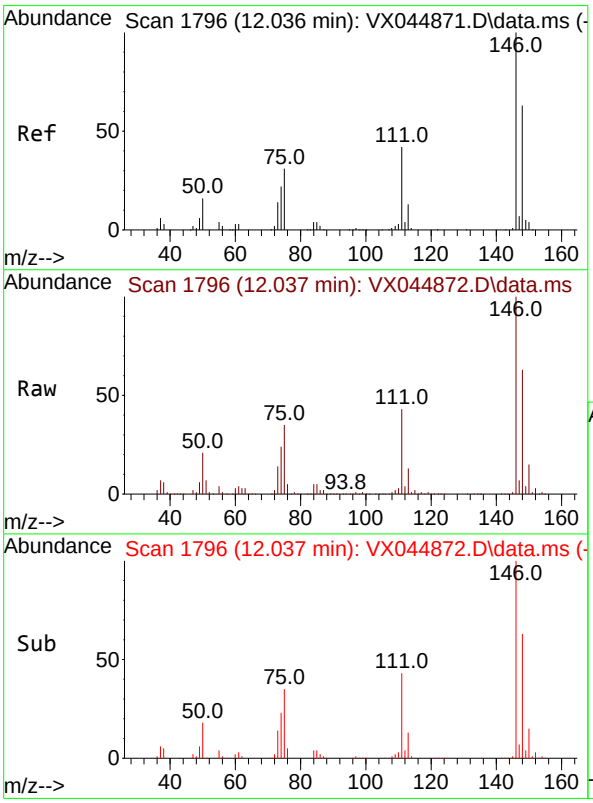
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	63.1	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

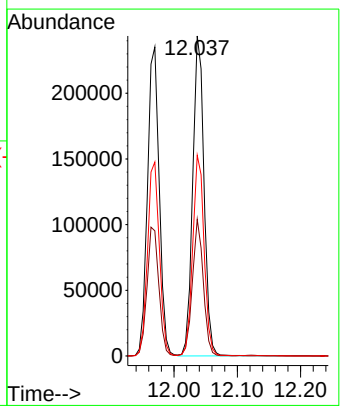
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

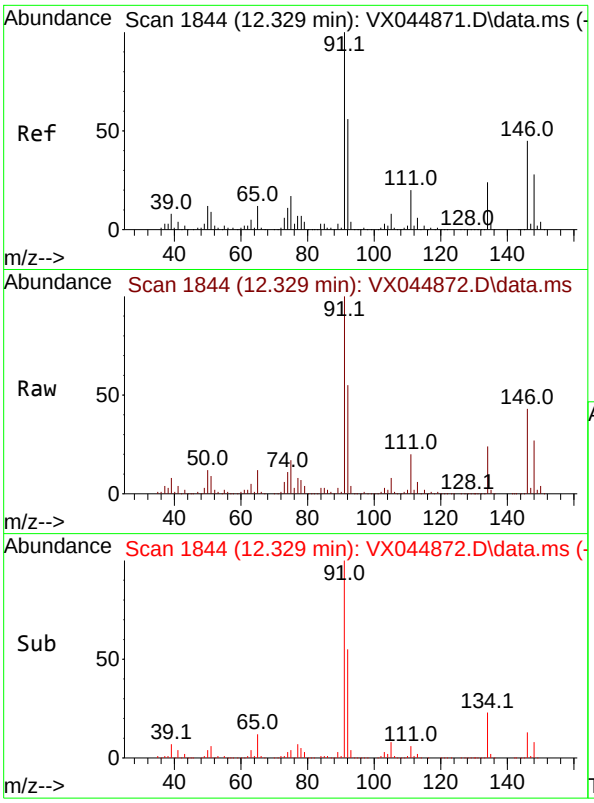


#88
1,4-Dichlorobenzene
Concen: 97.830 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:146 Resp: 303417

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.4	61.3
148	63.0	32.0	96.0

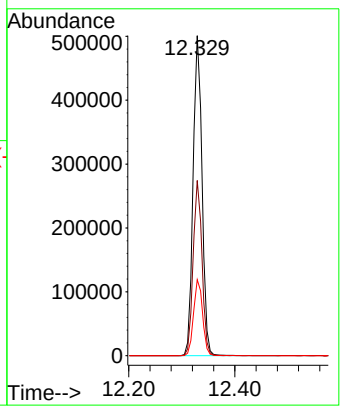




#89
n-Butylbenzene
Concen: 109.686 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 58363

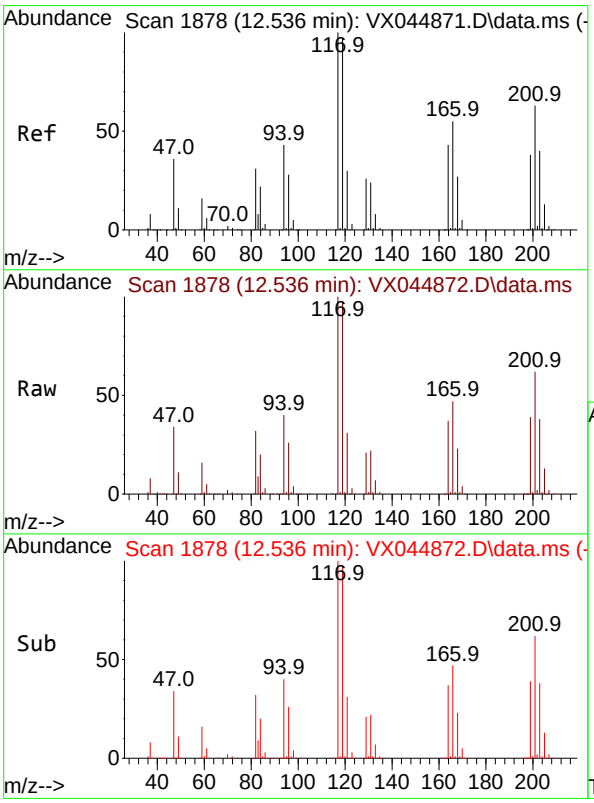
Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.0	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

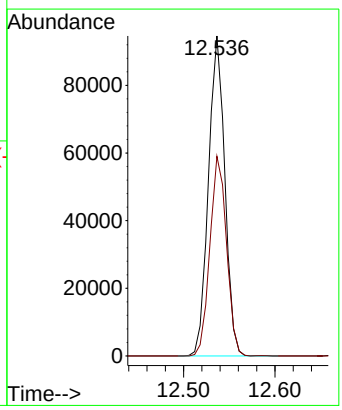
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

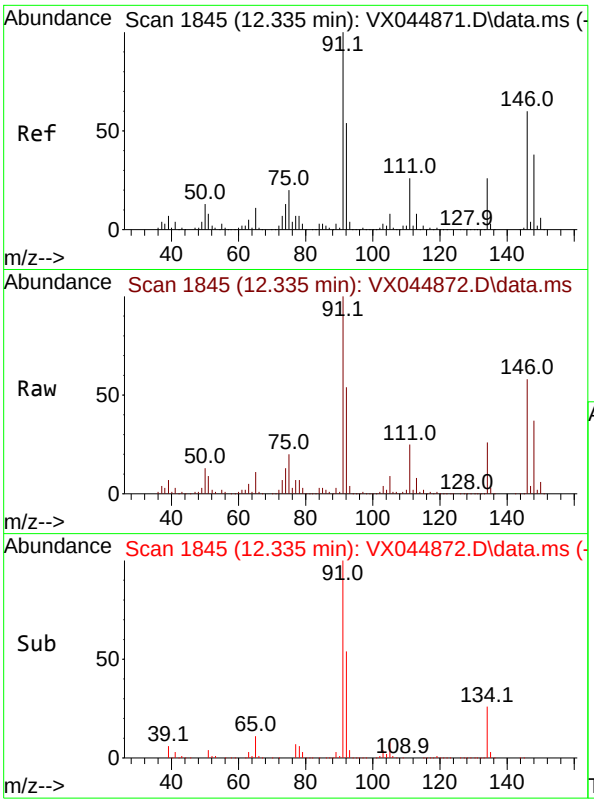


#90
Hexachloroethane
Concen: 104.365 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 117533

Ion	Ratio	Lower	Upper
117	100		
201	63.4	32.5	97.5

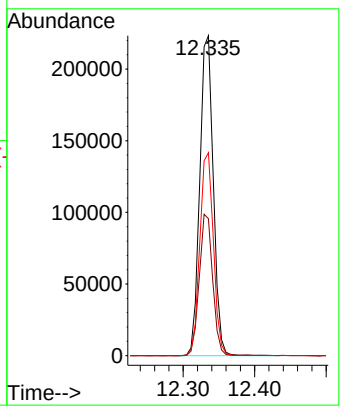




#91
1,2-Dichlorobenzene
Concen: 97.244 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:146 Resp: 29315

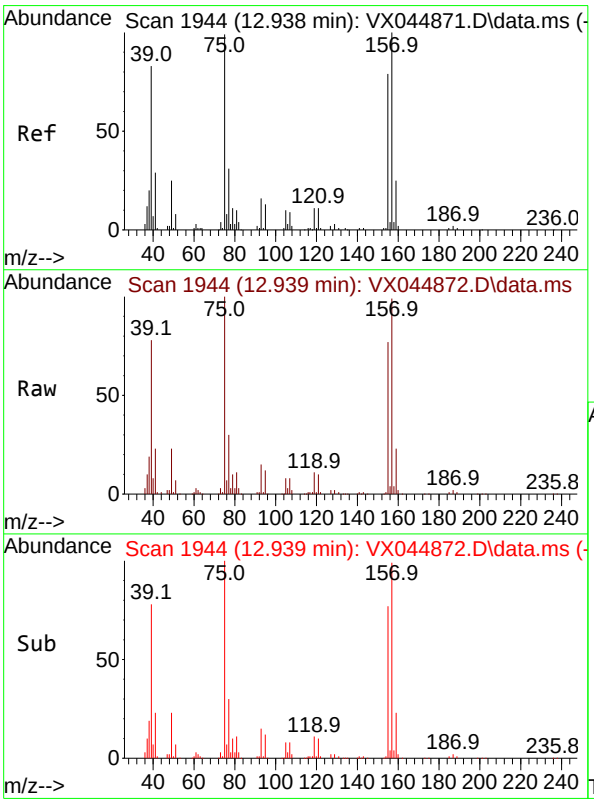
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.8	65.4
148	63.9	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

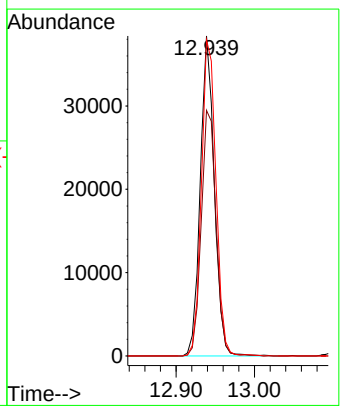
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

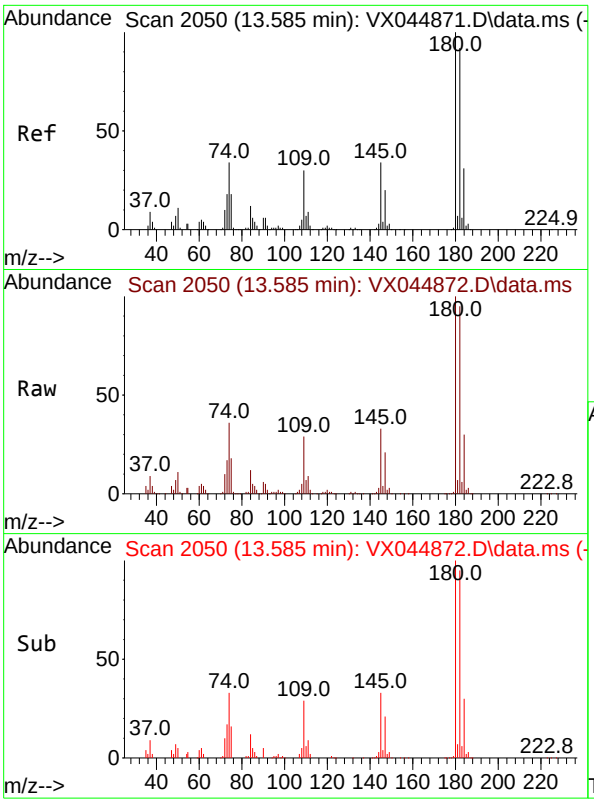


#92
1,2-Dibromo-3-Chloropropane
Concen: 103.477 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 47745

Ion	Ratio	Lower	Upper
75	100		
155	81.0	40.5	121.4
157	102.3	51.4	154.3

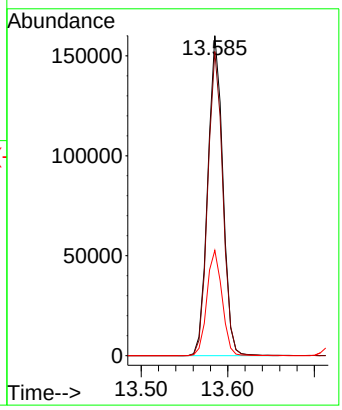




#93
1,2,4-Trichlorobenzene
Concen: 105.921 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:180 Resp: 19321

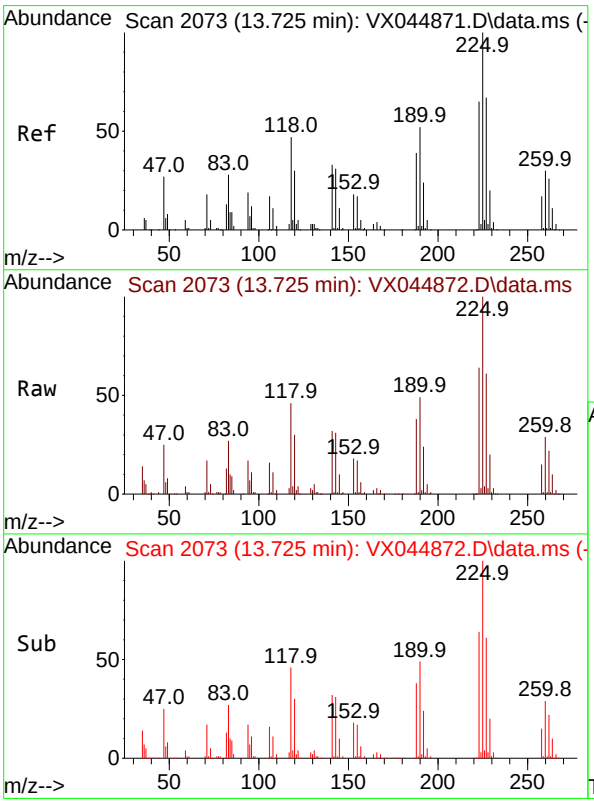
Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.6	142.8
145	33.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

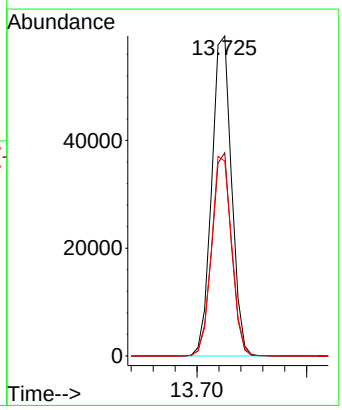
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

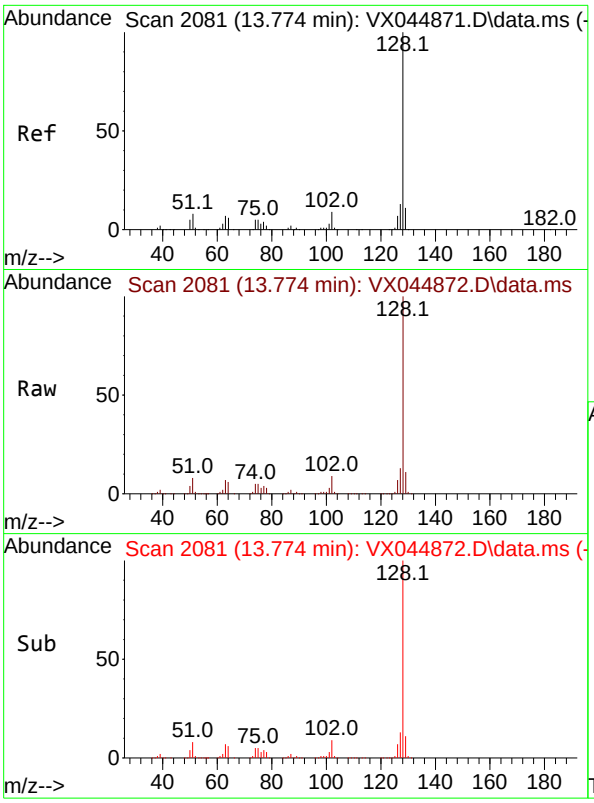


#94
Hexachlorobutadiene
Concen: 103.024 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:225 Resp: 74605

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.2
227	63.5	32.3	96.8

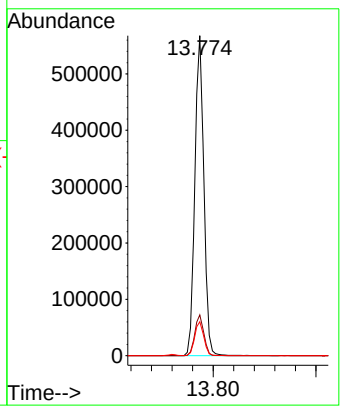




#95
Naphthalene
Concen: 104.505 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:128 Resp: 68910

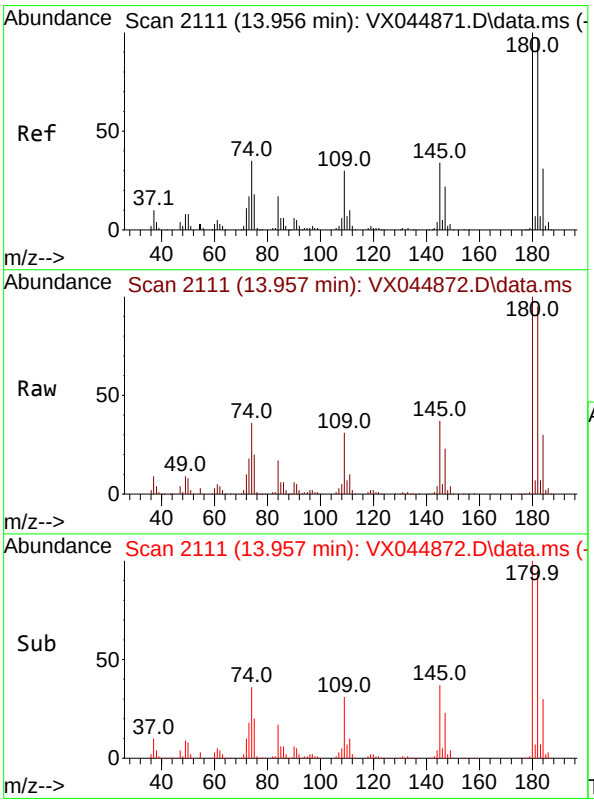
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.7	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

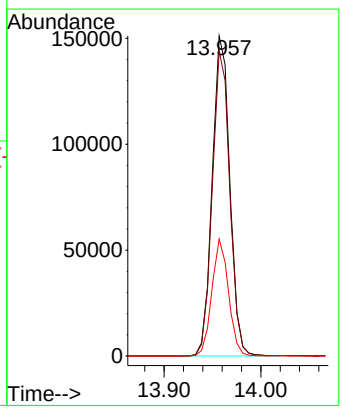
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 103.659 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:180 Resp: 190534

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.6
145	34.6	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	125253	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	232597	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	196663	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84836	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	280853	153.180	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 306.360%#			
35) Dibromofluoromethane	5.379	113	229218	151.572	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 303.140%#			
50) Toluene-d8	8.647	98	845632	147.877	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 295.760%#			
62) 4-Bromofluorobenzene	11.079	95	287486	149.124	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 298.240%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	260576	148.330	ug/l	96
3) Chloromethane	1.307	50	297968	139.361	ug/l	100
4) Vinyl Chloride	1.374	62	305986	147.723	ug/l	99
5) Bromomethane	1.593	94	92399	149.071	ug/l	96
6) Chloroethane	1.660	64	67889	130.289	ug/l	97
7) Trichlorofluoromethane	1.867	101	378664	144.558	ug/l	99
8) Diethyl Ether	2.136	74	140428	147.822	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	239215	151.147	ug/l	100
10) Methyl Iodide	2.441	142	305390	148.887	ug/l	100
11) Tert butyl alcohol	3.020	59	242430	712.734	ug/l	100
12) 1,1-Dichloroethene	2.306	96	246987	152.989	ug/l	99
13) Acrolein	2.239	56	273178	778.418	ug/l	100
14) Allyl chloride	2.654	41	438493	150.289	ug/l	97
15) Acrylonitrile	3.068	53	684234	753.423	ug/l	99
16) Acetone	2.386	43	547939	743.398	ug/l	99
17) Carbon Disulfide	2.502	76	693558	156.665	ug/l	100
18) Methyl Acetate	2.703	43	373877	160.743	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	792810	154.347	ug/l	100
20) Methylene Chloride	2.782	84	270575	149.871	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	242082	152.356	ug/l	93
22) Diisopropyl ether	3.757	45	839126	152.020	ug/l	98
23) Vinyl Acetate	3.721	43	3555031	789.993	ug/l	100
24) 1,1-Dichloroethane	3.605	63	472424	152.959	ug/l	99
25) 2-Butanone	4.556	43	914741	764.276	ug/l	98
26) 2,2-Dichloropropane	4.471	77	382167	156.029	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	292864	153.446	ug/l	99
28) Bromochloromethane	4.891	49	217387	146.458	ug/l	98
29) Tetrahydrofuran	5.001	42	596045	749.977	ug/l	99
30) Chloroform	5.086	83	453809	151.509	ug/l	99
31) Cyclohexane	5.458	56	423464	148.722	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	386162	151.996	ug/l	99
36) 1,1-Dichloropropene	5.684	75	324182	148.585	ug/l	100
37) Ethyl Acetate	4.715	43	368763	151.956	ug/l	99
38) Carbon Tetrachloride	5.672	117	320536	149.921	ug/l	98
39) Methylcyclohexane	7.373	83	443218	157.130	ug/l	99
40) Benzene	6.031	78	1014129	148.856	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	206155	158.707	ug/l		100
42) 1,2-Dichloroethane	6.080	62	336520	154.984	ug/l		99
43) Isopropyl Acetate	6.336	43	617516	157.575	ug/l		99
44) Trichloroethene	7.117	130	239030	153.496	ug/l		99
45) 1,2-Dichloropropane	7.427	63	259454	153.076	ug/l		100
46) Dibromomethane	7.574	93	179689	152.870	ug/l		99
47) Bromodichloromethane	7.818	83	357623	157.128	ug/l		98
48) Methyl methacrylate	7.690	41	297931	161.236	ug/l		99
49) 1,4-Dioxane	7.665	88	106175	2678.192	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	1736538	728.887	ug/l		100
52) Toluene	8.714	92	603113	148.645	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	378639	164.398	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	417724	162.667	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	229548	147.172	ug/l		98
56) Ethyl methacrylate	9.116	69	398535	158.205	ug/l		99
57) 1,3-Dichloropropane	9.305	76	403665	147.915	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	982120	794.010	ug/l		100
59) 2-Hexanone	9.433	43	1264470	736.622	ug/l		99
60) Dibromochloromethane	9.519	129	258320	154.862	ug/l		99
61) 1,2-Dibromoethane	9.604	107	240539	152.157	ug/l		99
64) Tetrachloroethene	9.269	164	184990	149.155	ug/l		96
65) Chlorobenzene	10.073	112	634550	150.224	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	212441	156.255	ug/l		99
67) Ethyl Benzene	10.189	91	1137842	152.647	ug/l		100
68) m/p-Xylenes	10.299	106	818971	297.841	ug/l		98
69) o-Xylene	10.640	106	401928	145.674	ug/l		99
70) Styrene	10.653	104	671843	151.140	ug/l		98
71) Bromoform	10.799	173	169481	167.033	ug/l	#	98
73) Isopropylbenzene	10.957	105	1037402	151.869	ug/l		99
74) N-amyl acetate	10.841	43	521962	168.861	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	346013	147.409	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	284934m	151.485	ug/l		
77) Bromobenzene	11.195	156	234957	151.715	ug/l		99
78) n-propylbenzene	11.305	91	1231079	156.140	ug/l		99
79) 2-Chlorotoluene	11.360	91	717766	148.123	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	822707	148.415	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	126660	173.221	ug/l		98
82) 4-Chlorotoluene	11.451	91	818099	152.602	ug/l		99
83) tert-Butylbenzene	11.713	119	838979	149.610	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	838584	153.274	ug/l		99
85) sec-Butylbenzene	11.890	105	1061101	152.806	ug/l		100
86) p-Isopropyltoluene	12.006	119	865491	154.987	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	433384	152.175	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	432987	150.362	ug/l		100
89) n-Butylbenzene	12.329	91	827359	167.469	ug/l		100
90) Hexachloroethane	12.536	117	175414	167.760	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	417167	149.042	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	73593	171.783	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	283004	167.095	ug/l		98
94) Hexachlorobutadiene	13.725	225	104674	155.682	ug/l		97
95) Naphthalene	13.774	128	1015801	165.916	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	282289	165.408	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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

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

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

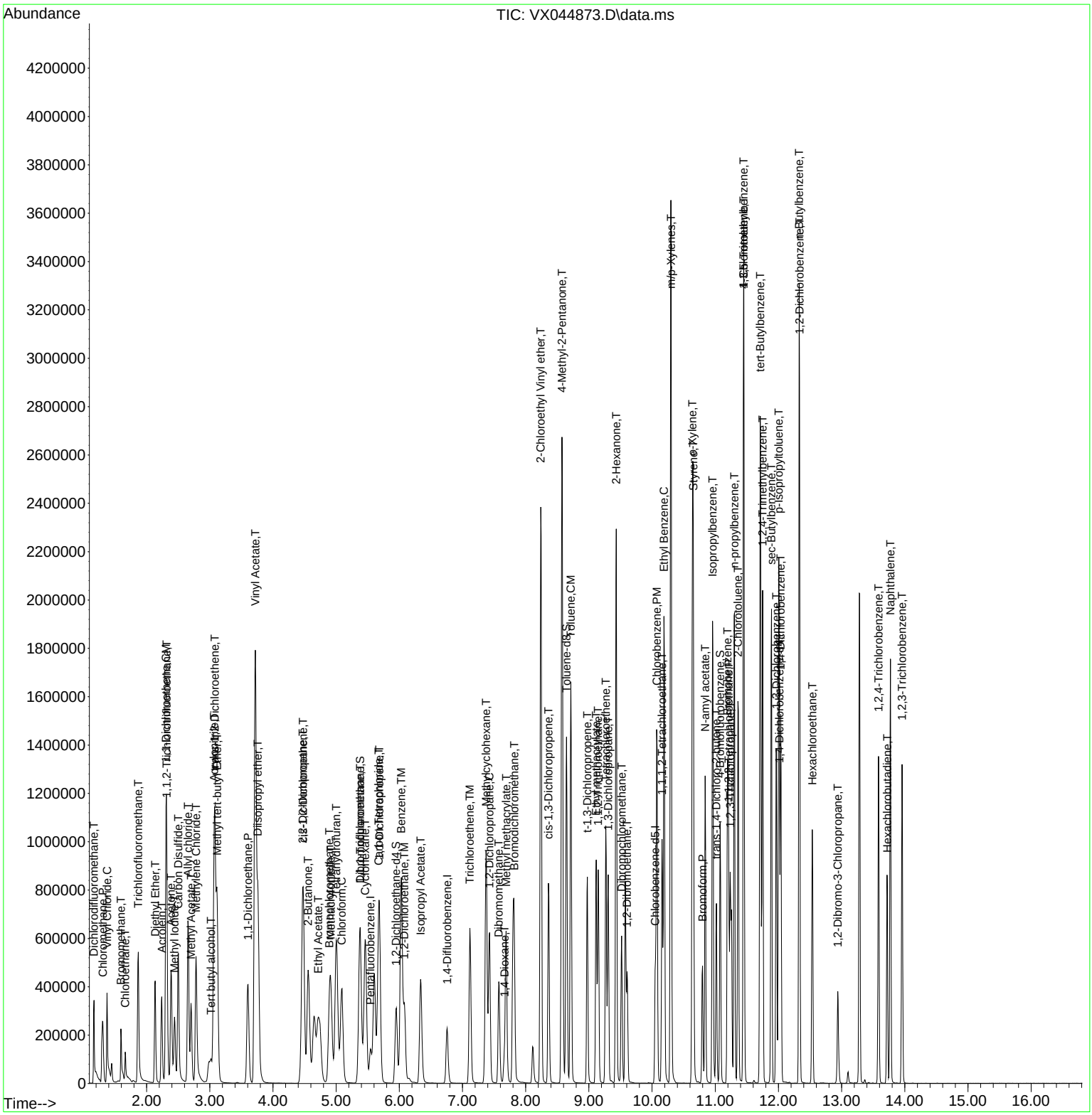
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

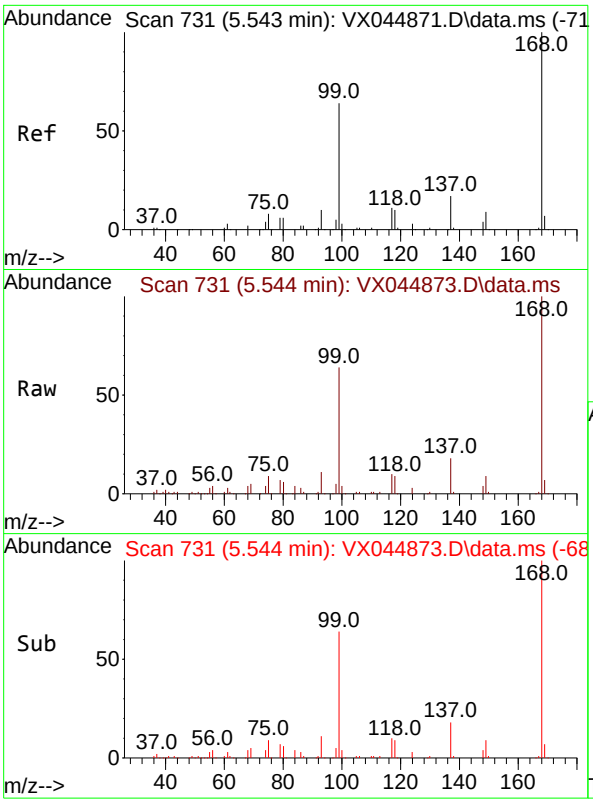
Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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

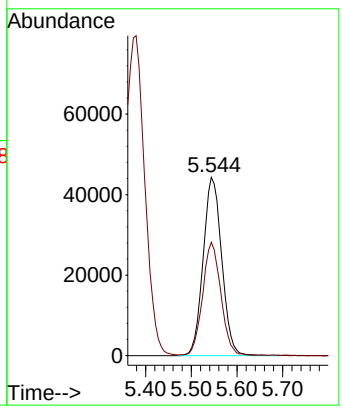




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:168 Resp: 12525

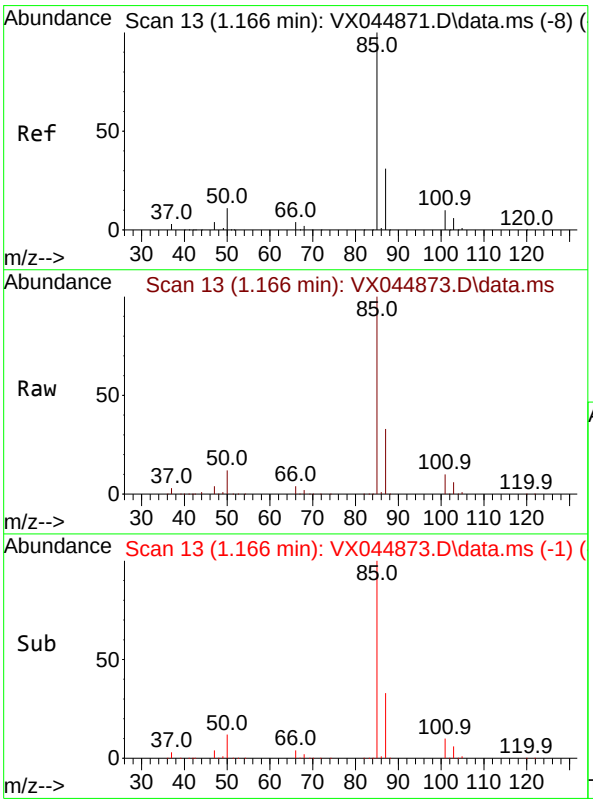
Ion	Ratio	Lower	Upper
168	100		
99	63.2	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

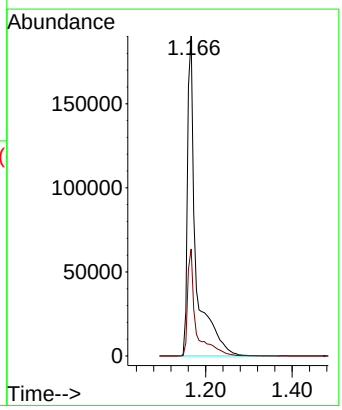
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

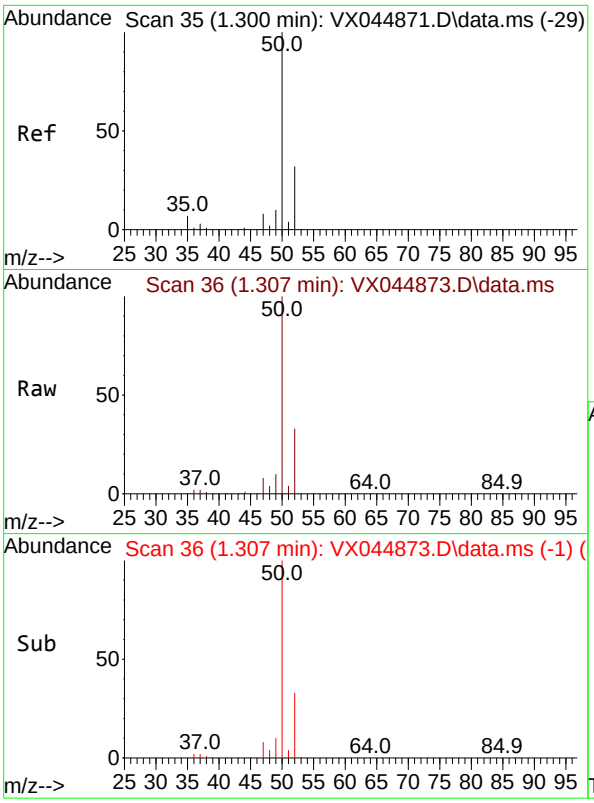


#2
Dichlorodifluoromethane
Concen: 148.330 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 85 Resp: 260576

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.8	47.3

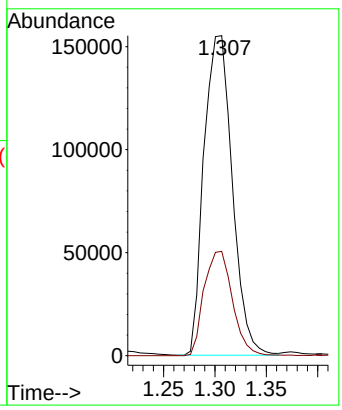




#3
Chloromethane
Concen: 139.361 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 50 Resp: 29796

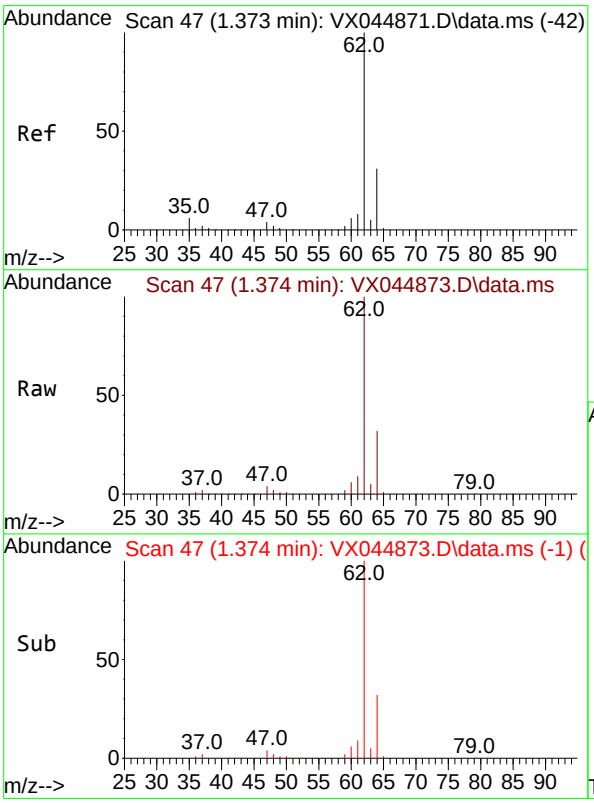
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

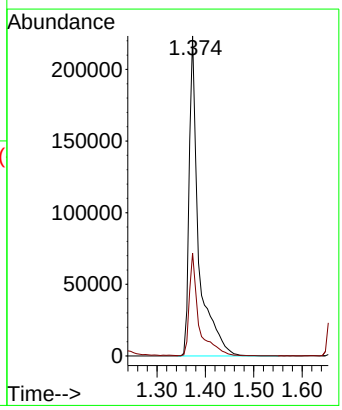
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

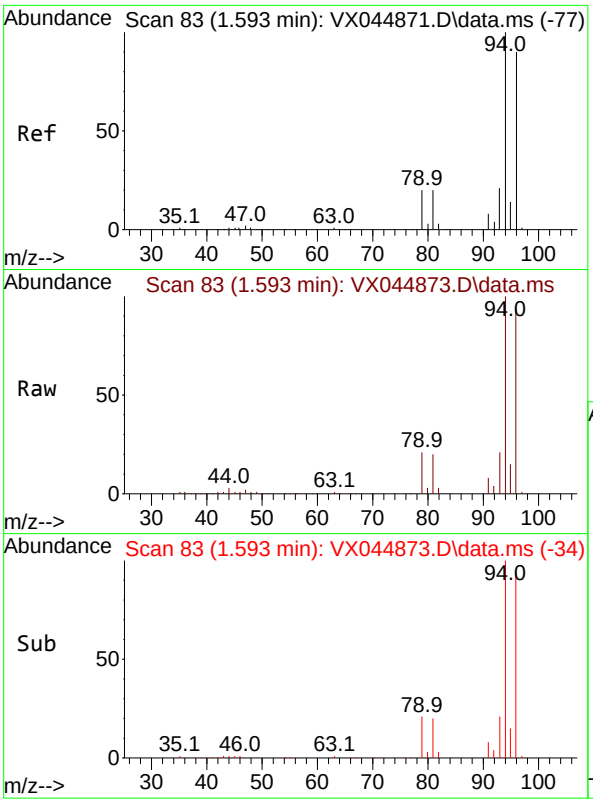


#4
Vinyl Chloride
Concen: 147.723 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 305986

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0

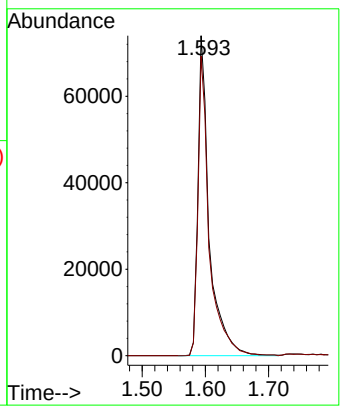




#5
Bromomethane
Concen: 149.071 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 94 Resp: 9239

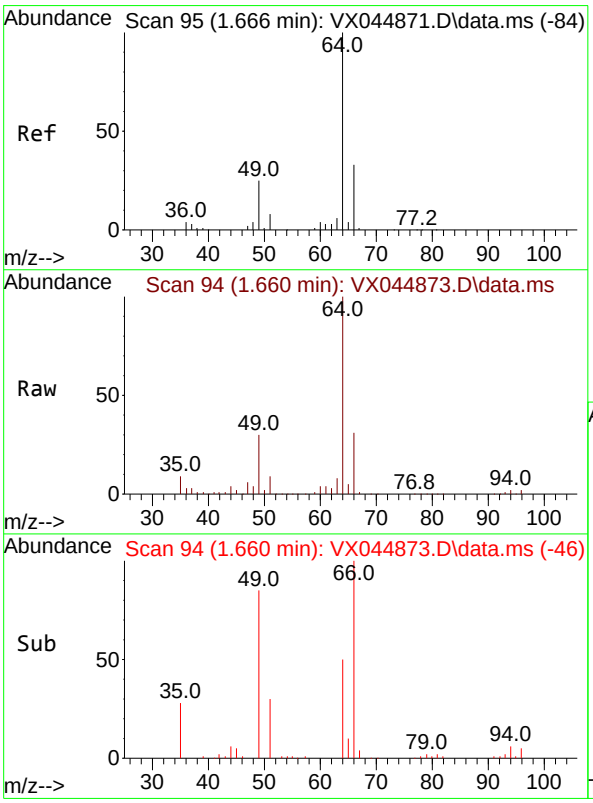
Ion	Ratio	Lower	Upper
94	100		
96	93.6	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

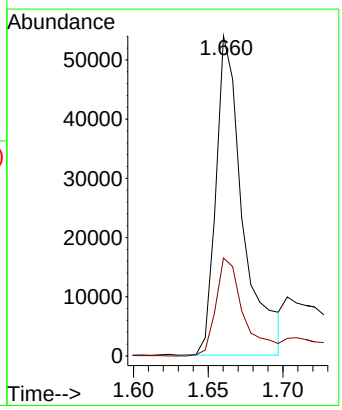
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

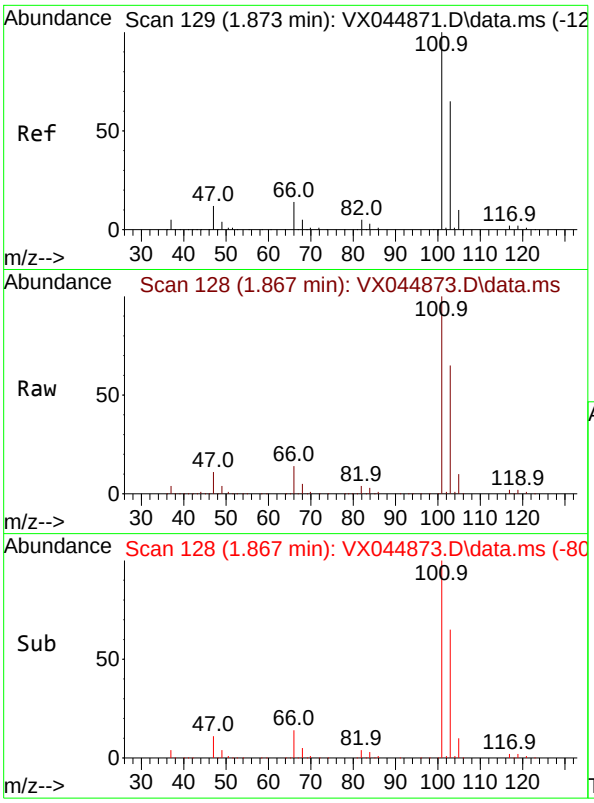


#6
Chloroethane
Concen: 130.289 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 64 Resp: 67889

Ion	Ratio	Lower	Upper
64	100		
66	30.7	25.9	38.9

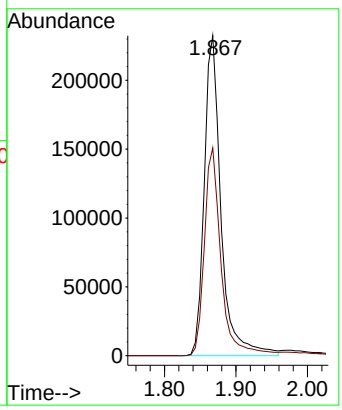




#7
Trichlorofluoromethane
Concen: 144.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:101 Resp: 37866

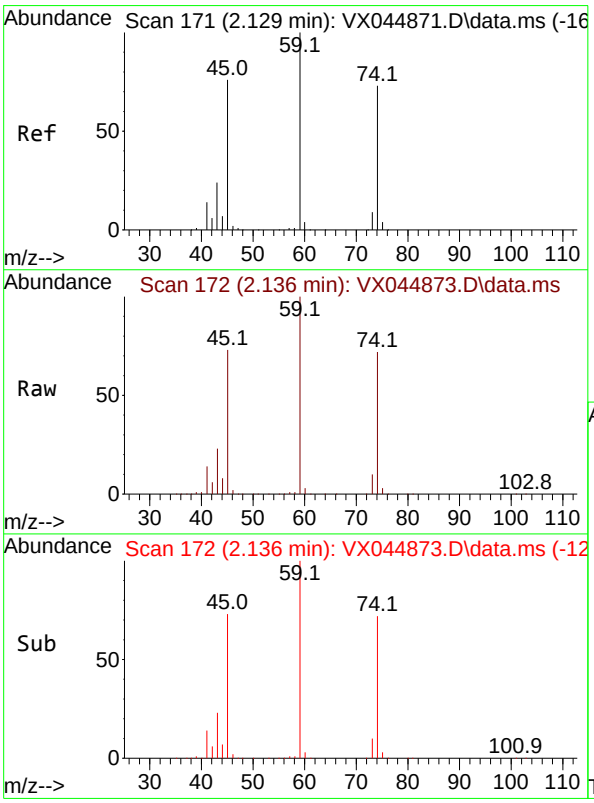
Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

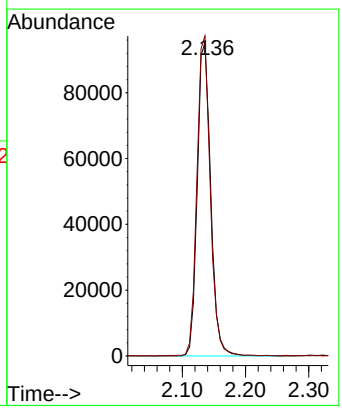
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

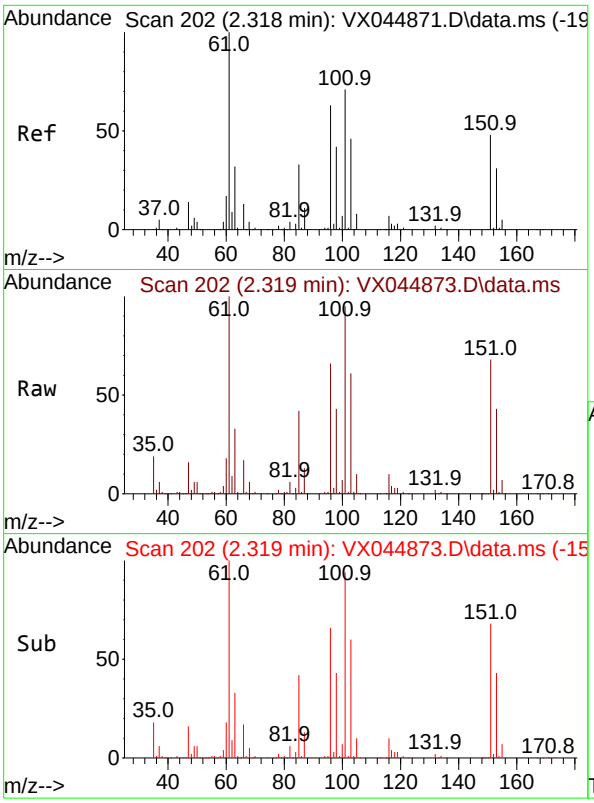


#8
Diethyl Ether
Concen: 147.822 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 74 Resp: 140428

Ion	Ratio	Lower	Upper
74	100		
45	102.1	51.1	153.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.147 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

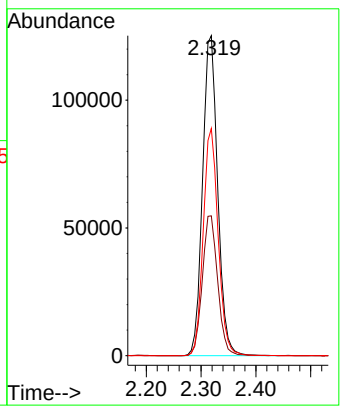
Tgt Ion:101 Resp: 23921

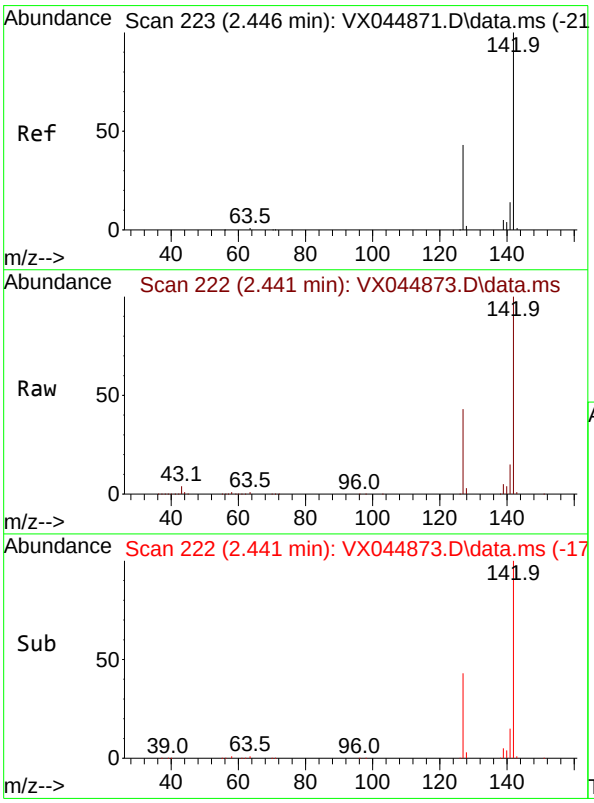
Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.7	53.5
151	70.2	56.0	84.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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

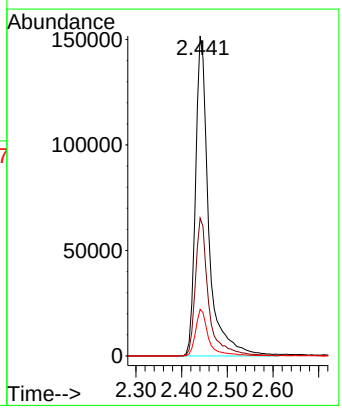


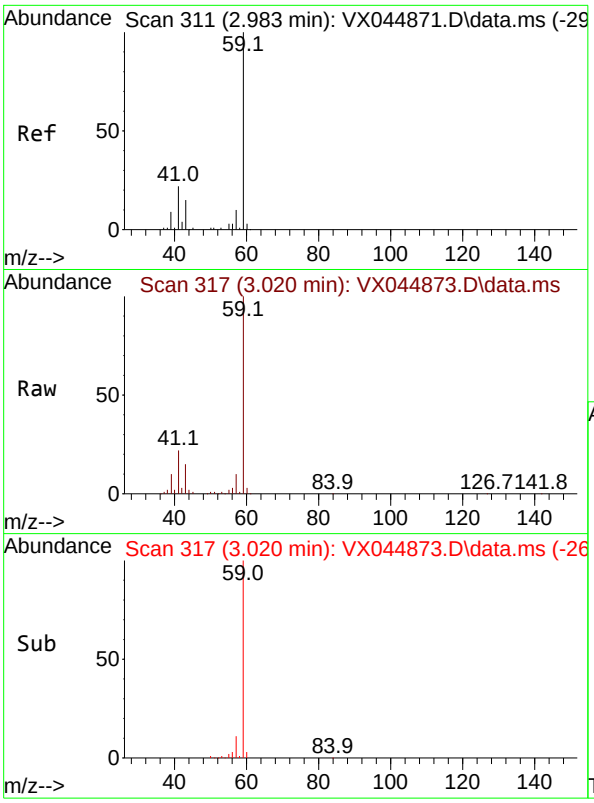


#10
Methyl Iodide
Concen: 148.887 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:142 Resp: 305390

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.4	11.4	17.2

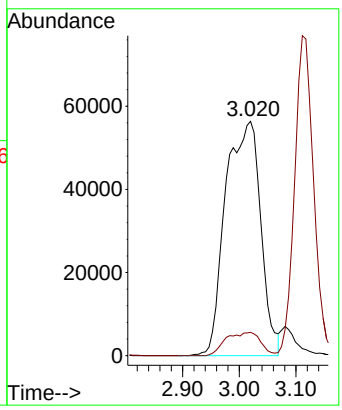




#11
Tert butyl alcohol
Concen: 712.734 ug/l
RT: 3.020 min Scan# 3
Delta R.T. 0.037 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 59 Resp: 24243

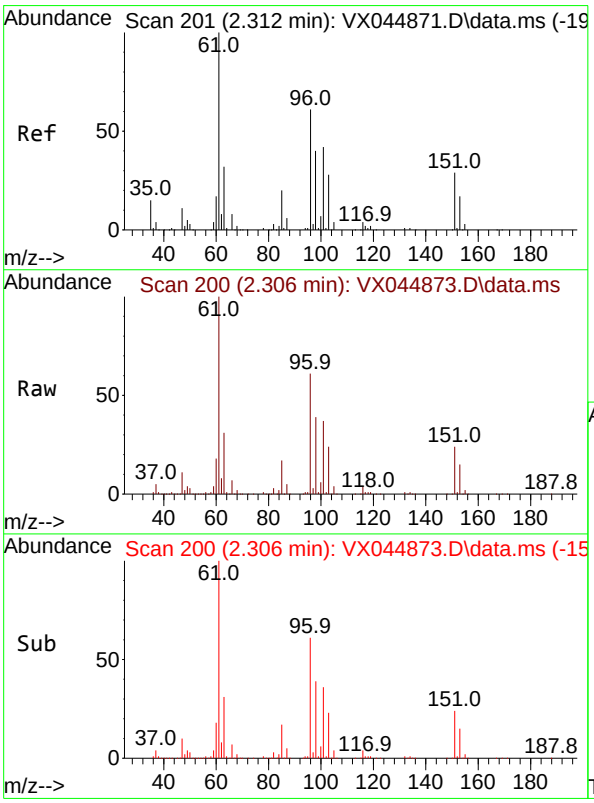
Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

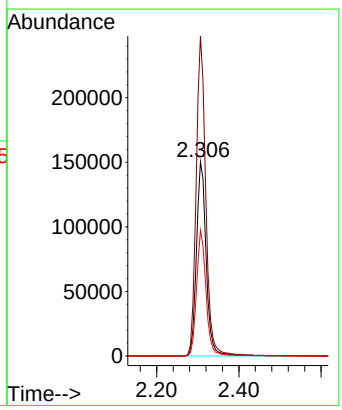
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

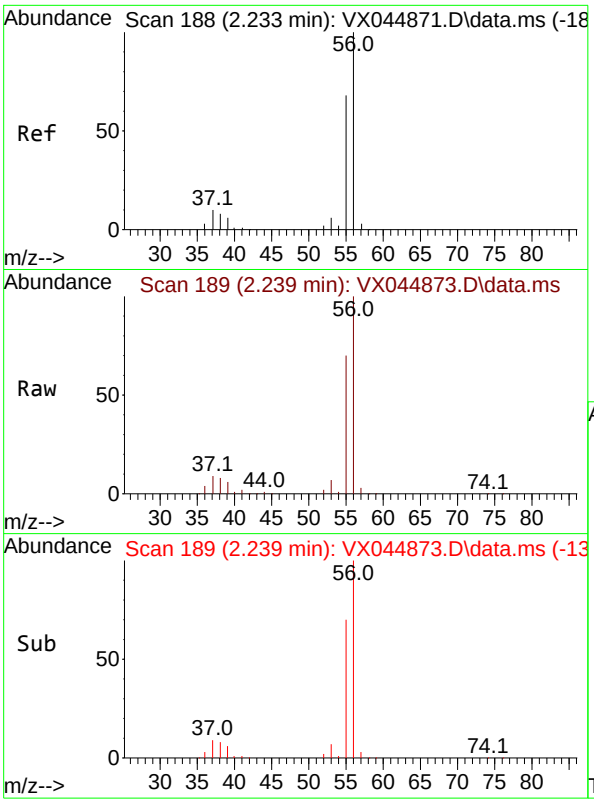


#12
1,1-Dichloroethene
Concen: 152.989 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 96 Resp: 246987

Ion	Ratio	Lower	Upper
96	100		
61	164.9	130.2	195.4
98	64.8	52.2	78.4

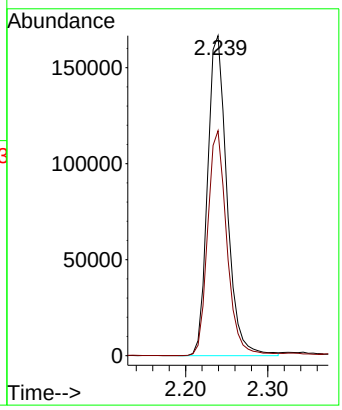




#13
Acrolein
Concen: 778.418 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 56 Resp: 27317

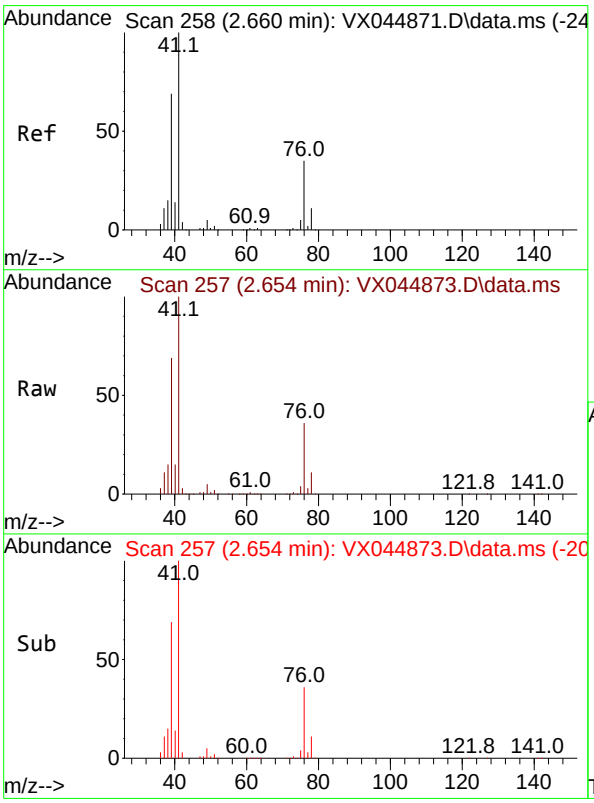
Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

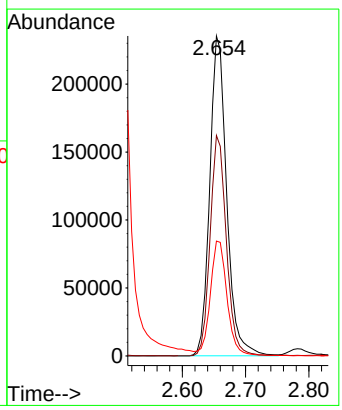
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

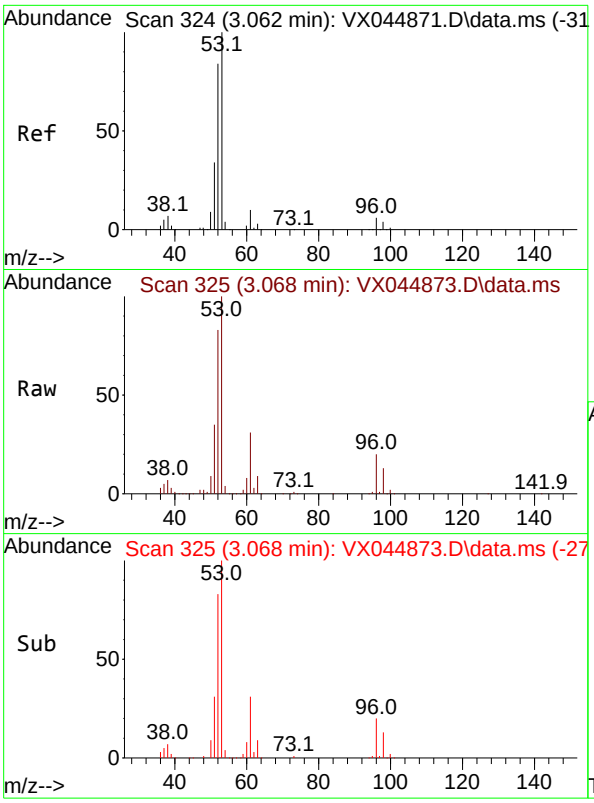


#14
Allyl chloride
Concen: 150.289 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 438493

Ion	Ratio	Lower	Upper
41	100		
39	66.1	51.4	77.2
76	35.7	27.0	40.4

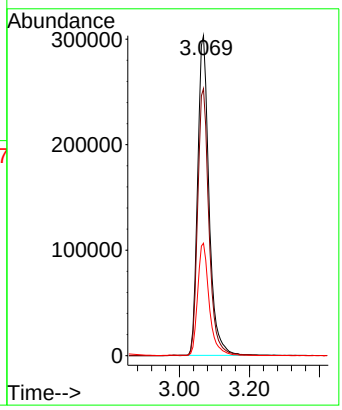




#15
Acrylonitrile
Concen: 753.423 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 53 Resp: 68423

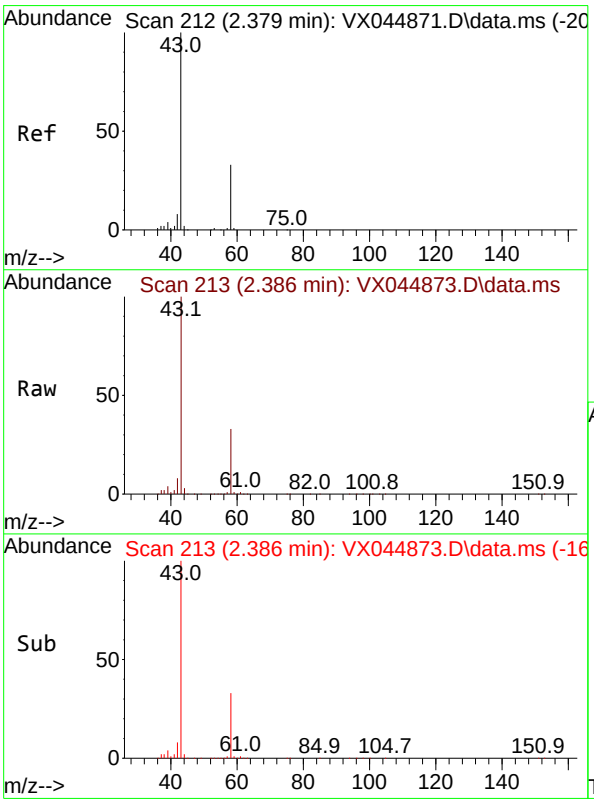
Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.0	97.6
51	35.2	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

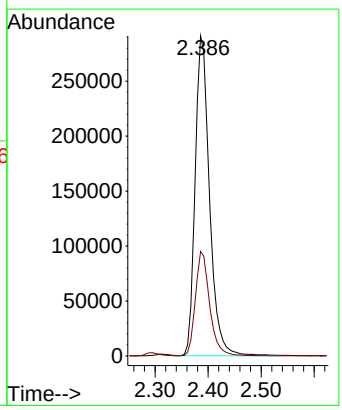
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

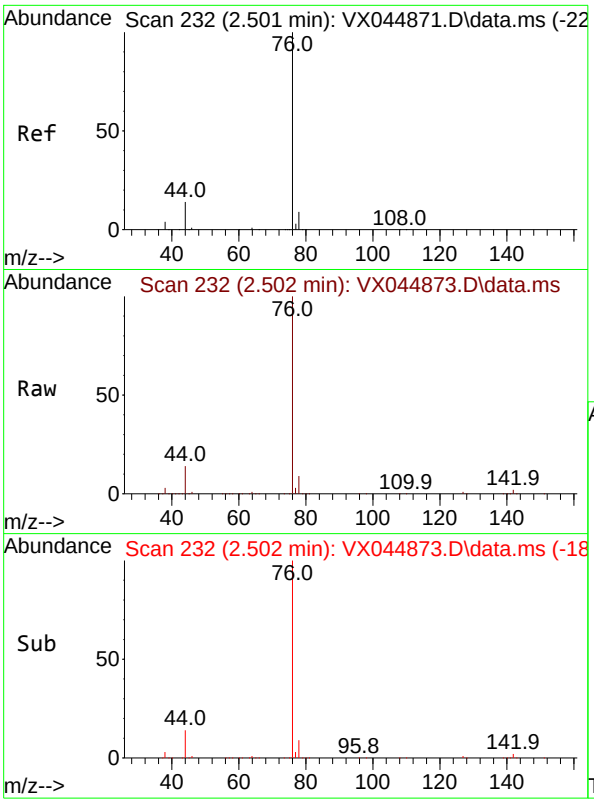


#16
Acetone
Concen: 743.398 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 547939

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7

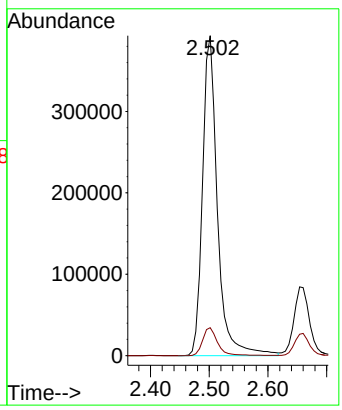




#17
Carbon Disulfide
Concen: 156.665 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 76 Resp: 69355

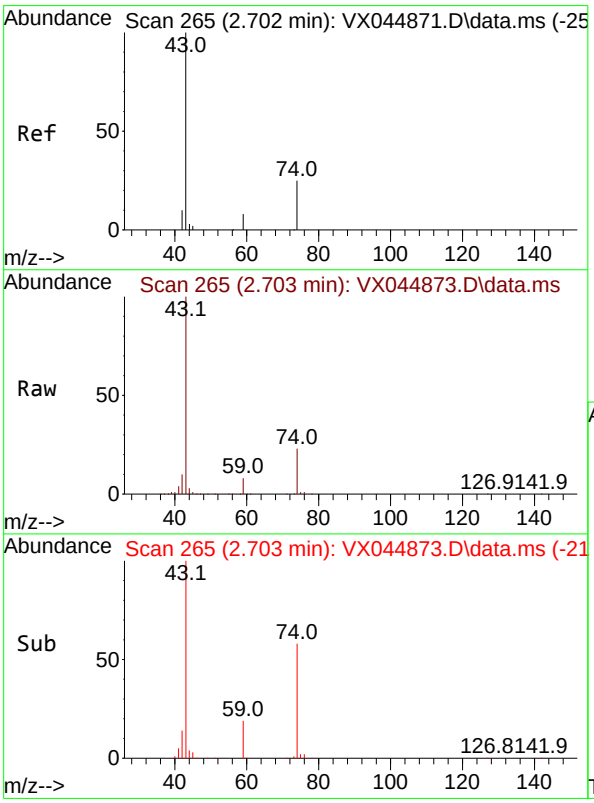
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

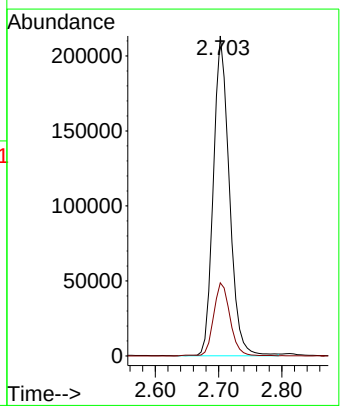
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

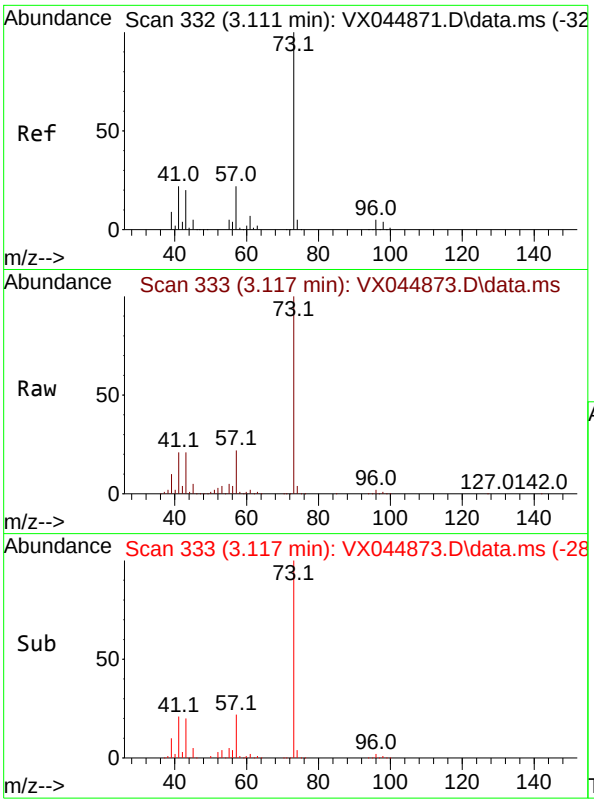


#18
Methyl Acetate
Concen: 160.743 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 373877

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.9	28.3

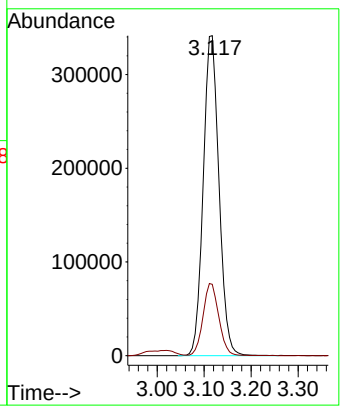




#19
Methyl tert-butyl Ether
Concen: 154.347 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 73 Resp: 79281

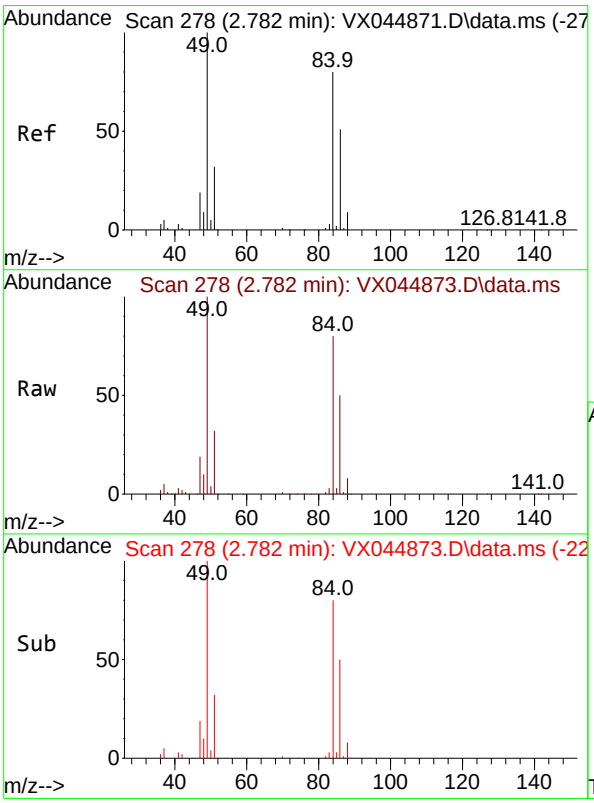
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

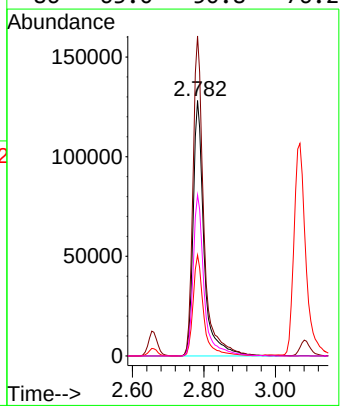
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

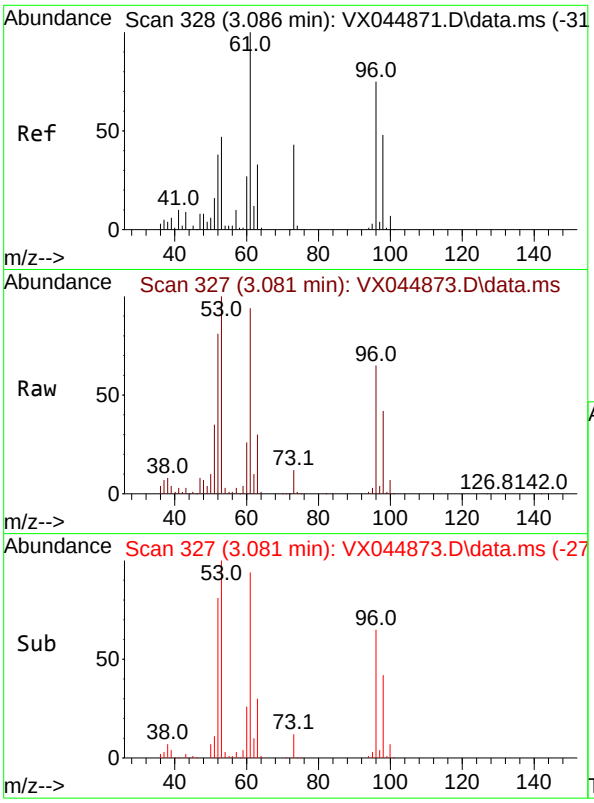


#20
Methylene Chloride
Concen: 149.871 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 84 Resp: 270575

Ion	Ratio	Lower	Upper
84	100		
49	125.2	100.1	150.1
51	39.5	31.7	47.5
86	63.0	50.8	76.2

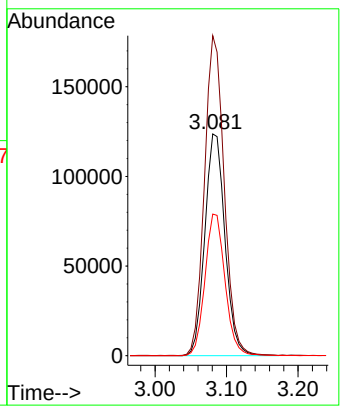




#21
trans-1,2-Dichloroethene
Concen: 152.356 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 96 Resp: 24208

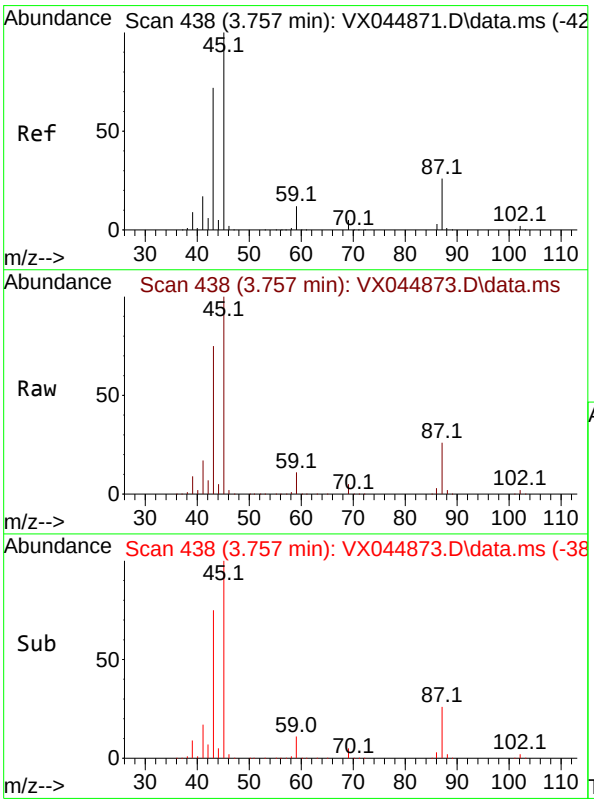
Ion	Ratio	Lower	Upper
96	100		
61	144.2	106.0	159.0
98	63.9	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

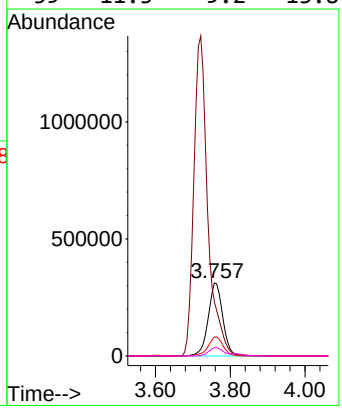
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

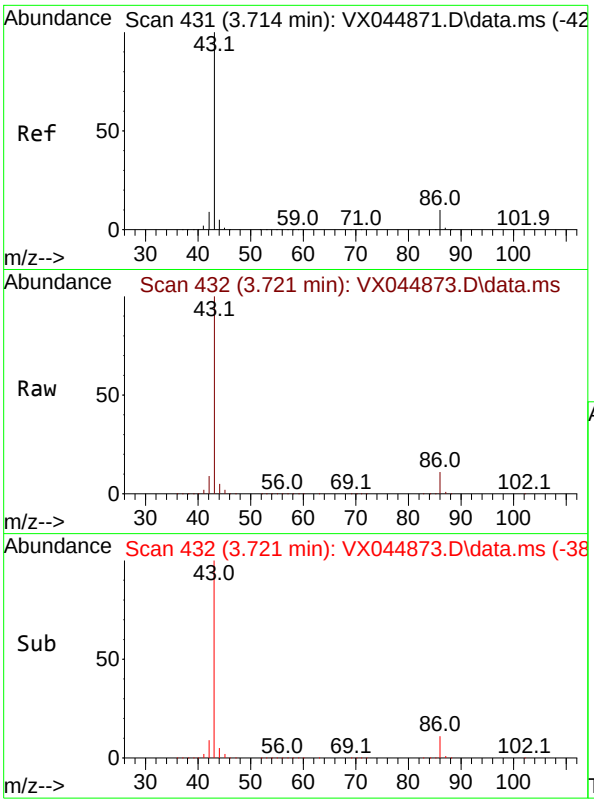


#22
Diisopropyl ether
Concen: 152.020 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 45 Resp: 839126

Ion	Ratio	Lower	Upper
45	100		
43	74.6	58.0	87.0
87	25.8	20.7	31.1
59	11.3	9.2	13.8





#23
Vinyl Acetate
Concen: 789.993 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

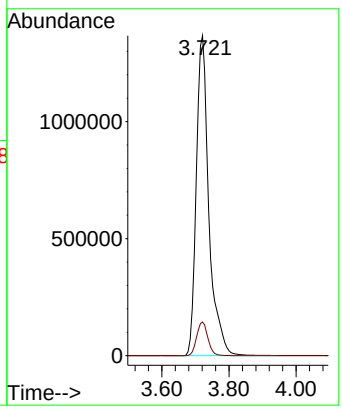
Tgt Ion: 43 Resp: 355503

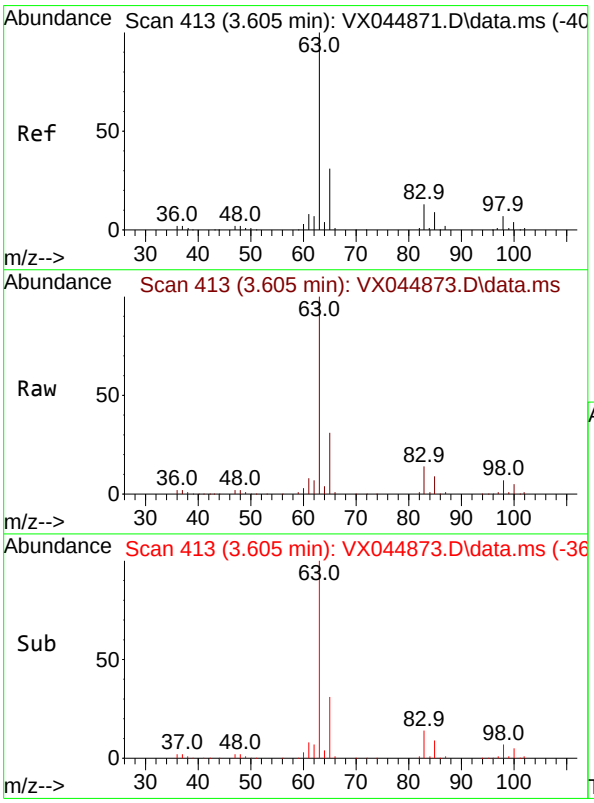
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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

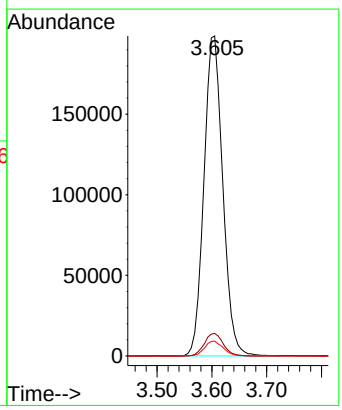


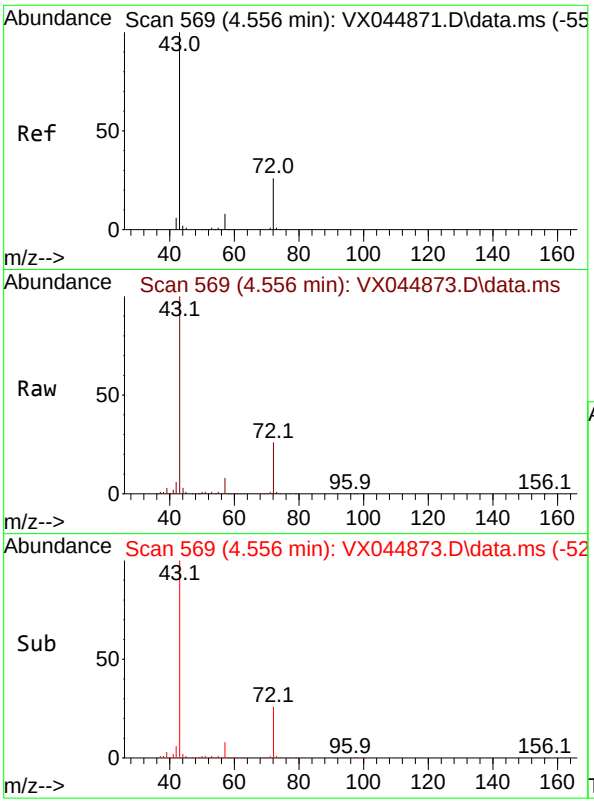


#24
1,1-Dichloroethane
Concen: 152.959 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 472424

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.3	9.9
100	4.6	2.1	6.5

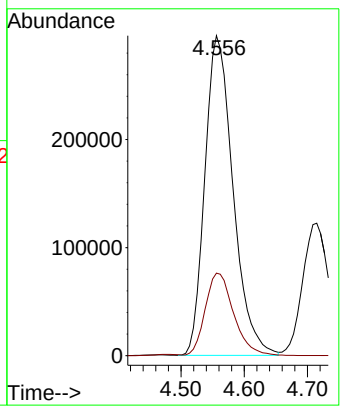




#25
2-Butanone
Concen: 764.276 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 91474

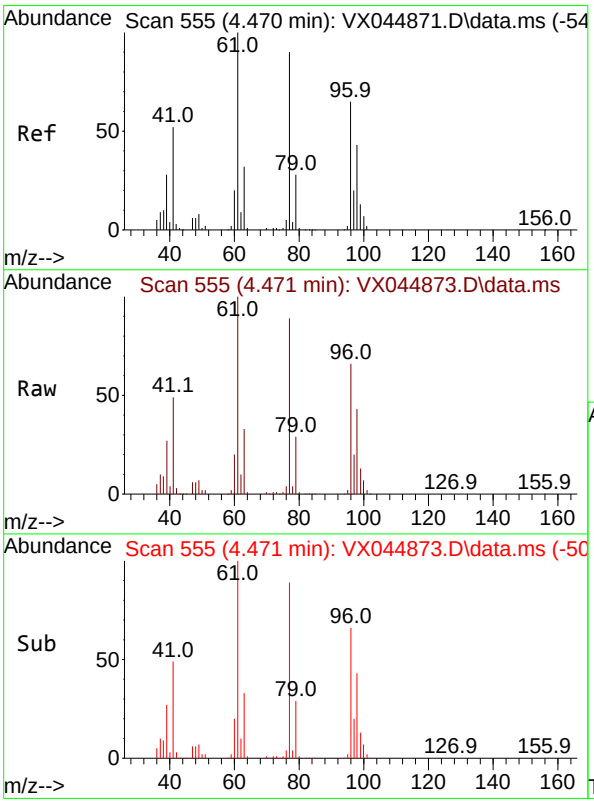
Ion	Ratio	Lower	Upper
43	100		
72	25.6	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

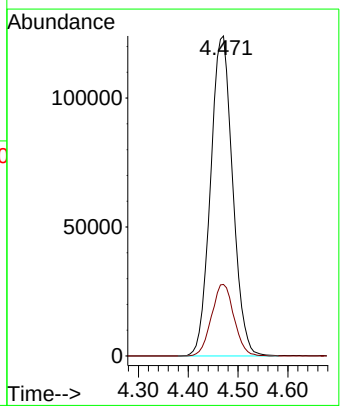
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

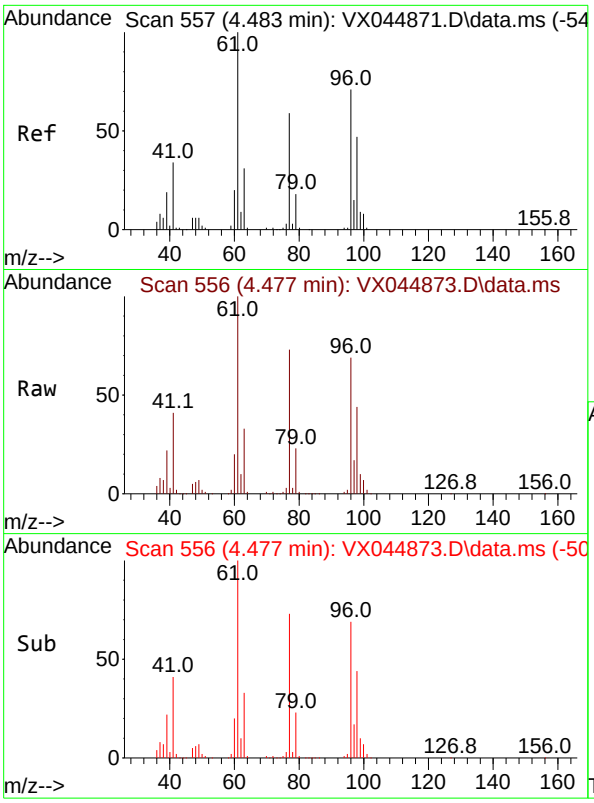


#26
2,2-Dichloropropane
Concen: 156.029 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 77 Resp: 382167

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.8	35.3

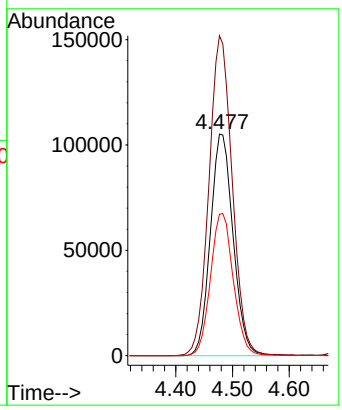




#27
cis-1,2-Dichloroethene
Concen: 153.446 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 96 Resp: 29286

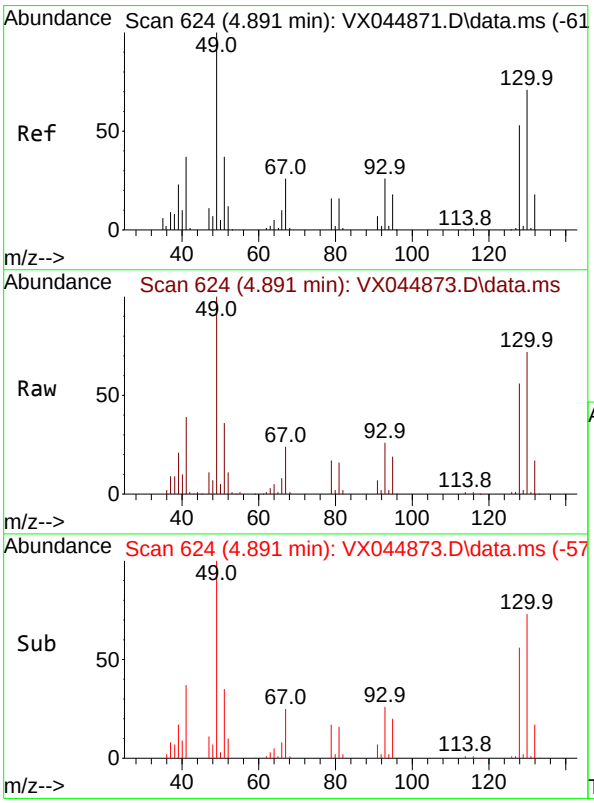
Ion	Ratio	Lower	Upper
96	100		
61	148.1	0.0	294.0
98	64.6	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

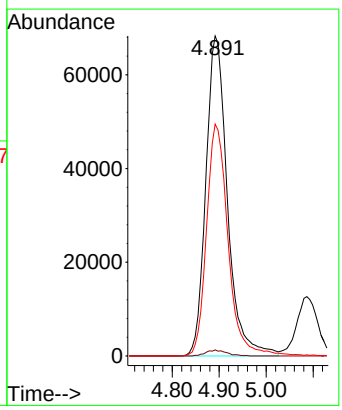
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

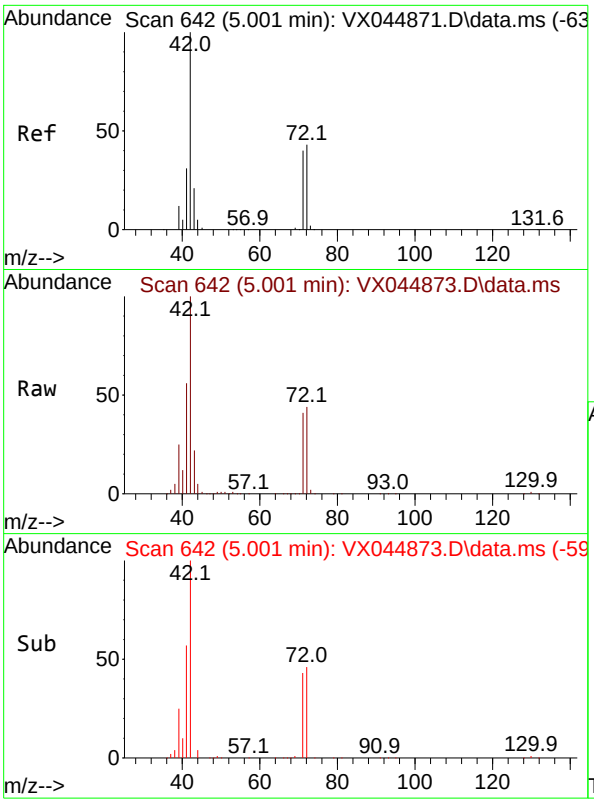


#28
Bromochloromethane
Concen: 146.458 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 49 Resp: 217387

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	72.6	56.7	85.1

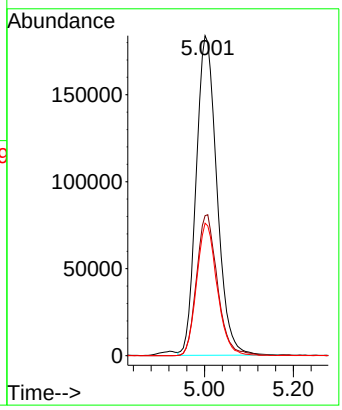




#29
Tetrahydrofuran
Concen: 749.977 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 42 Resp: 59604

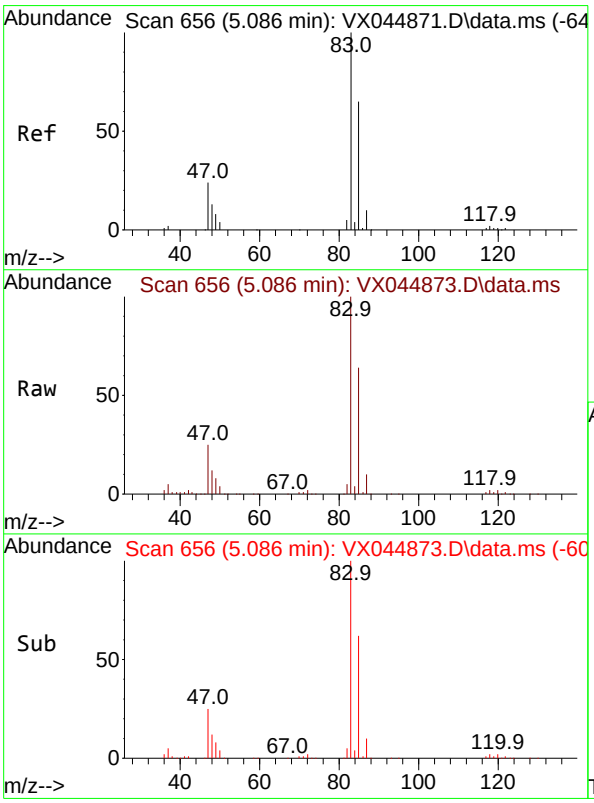
Ion	Ratio	Lower	Upper
42	100		
72	44.5	35.0	52.4
71	41.0	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

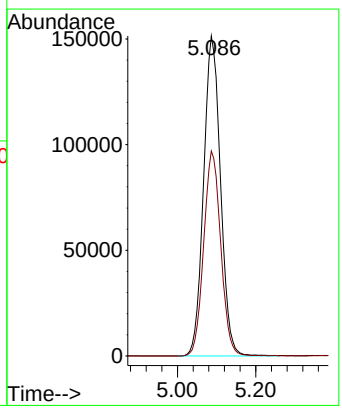
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

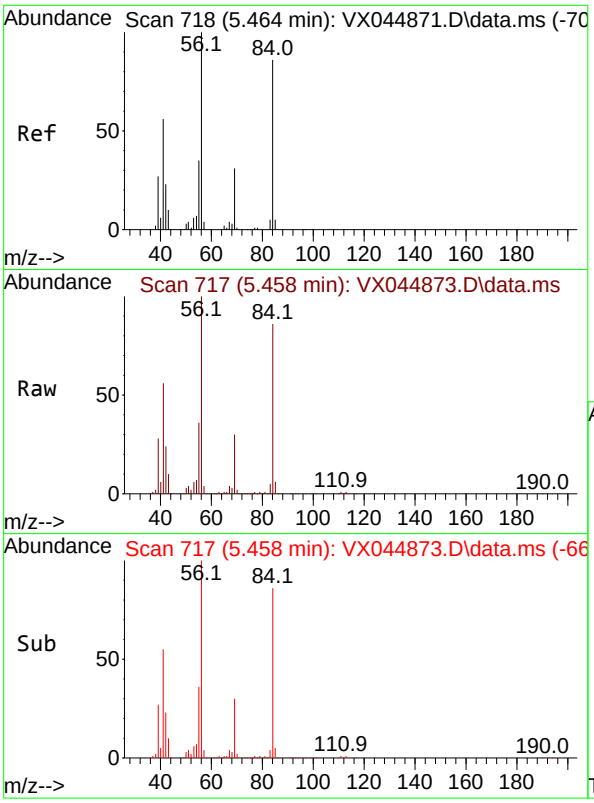


#30
Chloroform
Concen: 151.509 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 453809

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.1	78.1

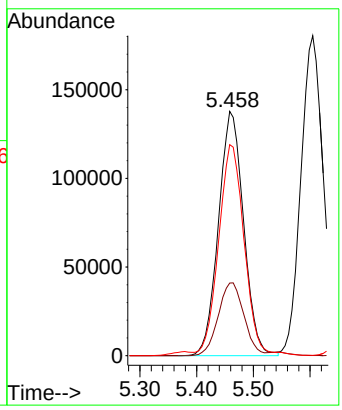




#31
Cyclohexane
Concen: 148.722 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 56 Resp: 42346

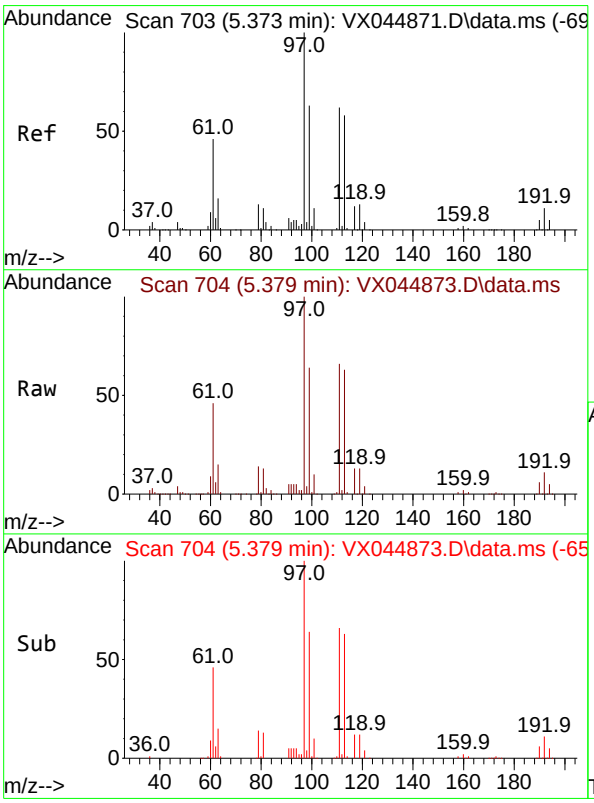
Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.4	36.6
84	85.0	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

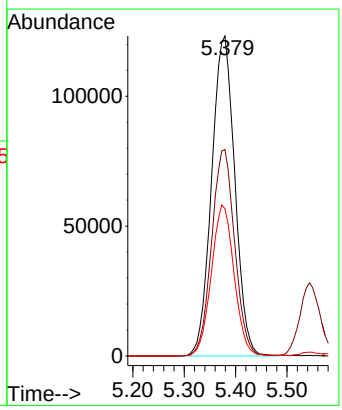
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

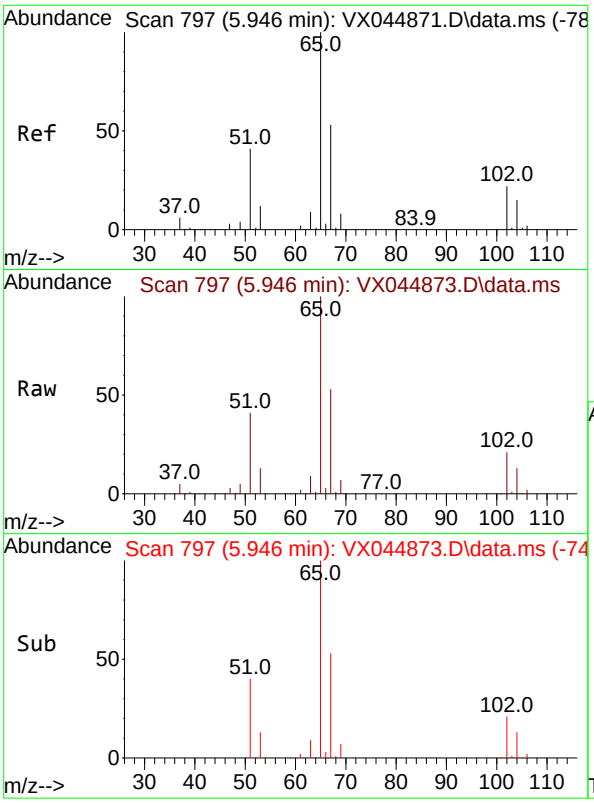


#32
1,1,1-Trichloroethane
Concen: 151.996 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 97 Resp: 386162

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.0	76.6
61	46.4	36.6	55.0

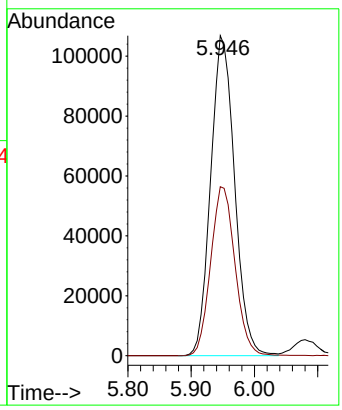




#33
1,2-Dichloroethane-d4
Concen: 153.180 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 65 Resp: 28085

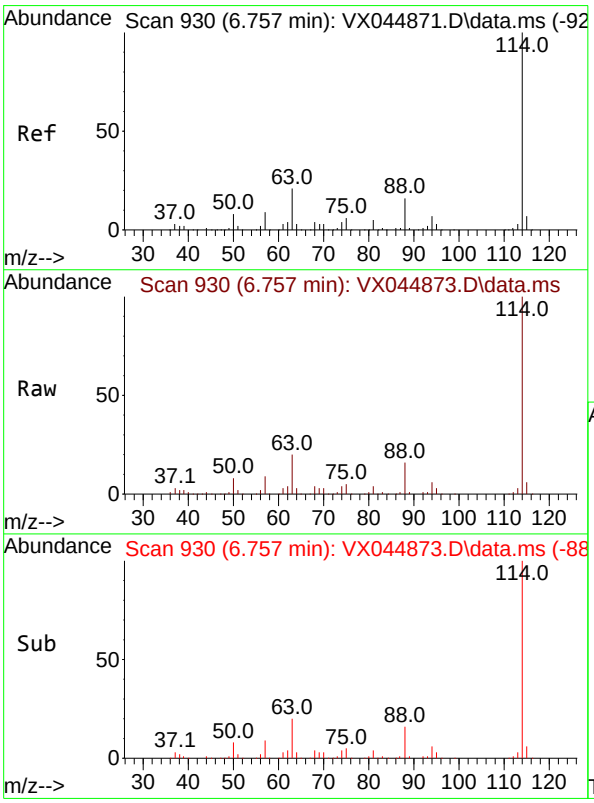
Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

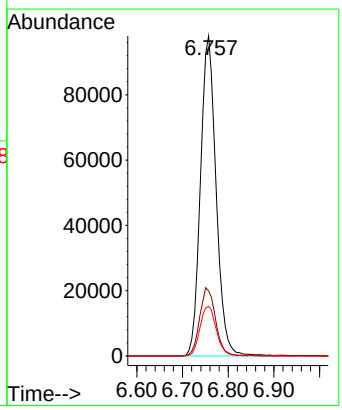
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

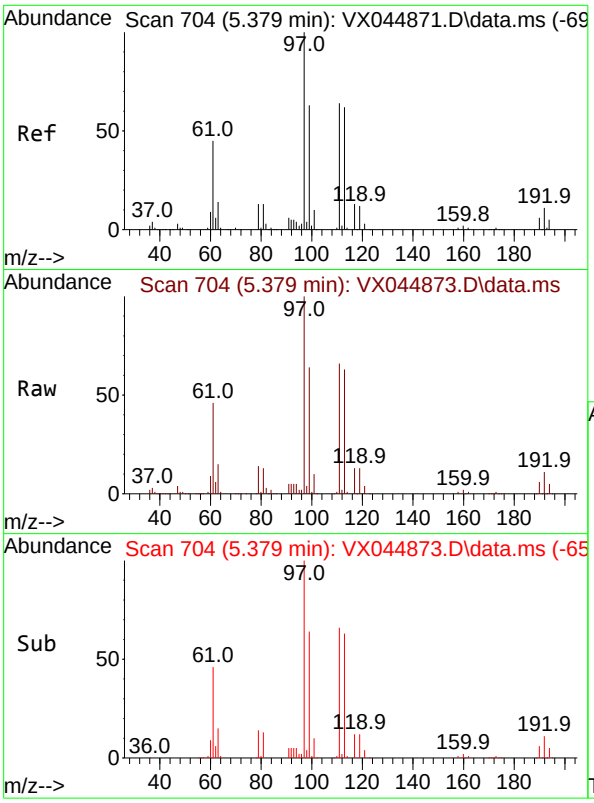


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:114 Resp: 232597

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.4
88	15.5	0.0	31.4

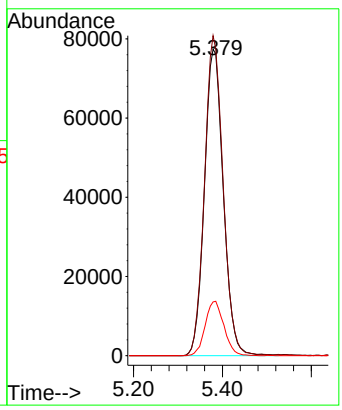




#35
Dibromofluoromethane
Concen: 151.572 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:113 Resp: 22921

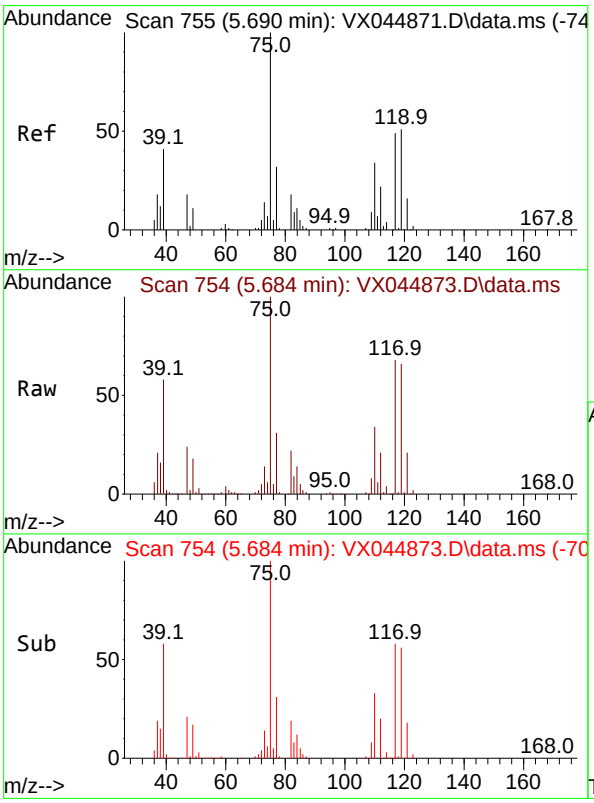
Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.5	125.3
192	17.6	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

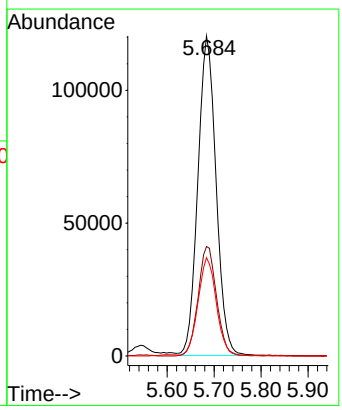
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

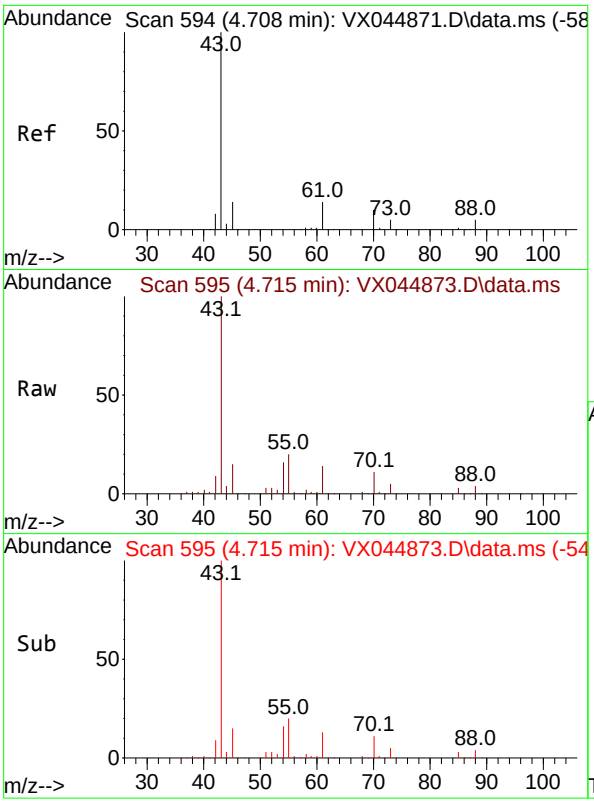


#36
1,1-Dichloropropene
Concen: 148.585 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 324182

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.2	51.6
77	30.9	24.6	37.0

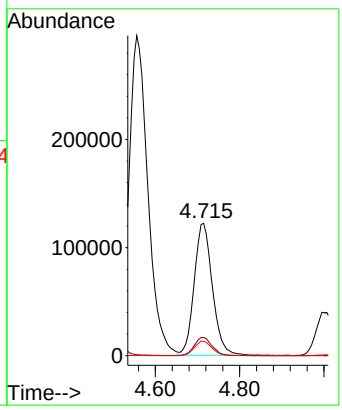




#37
Ethyl Acetate
Concen: 151.956 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 36876

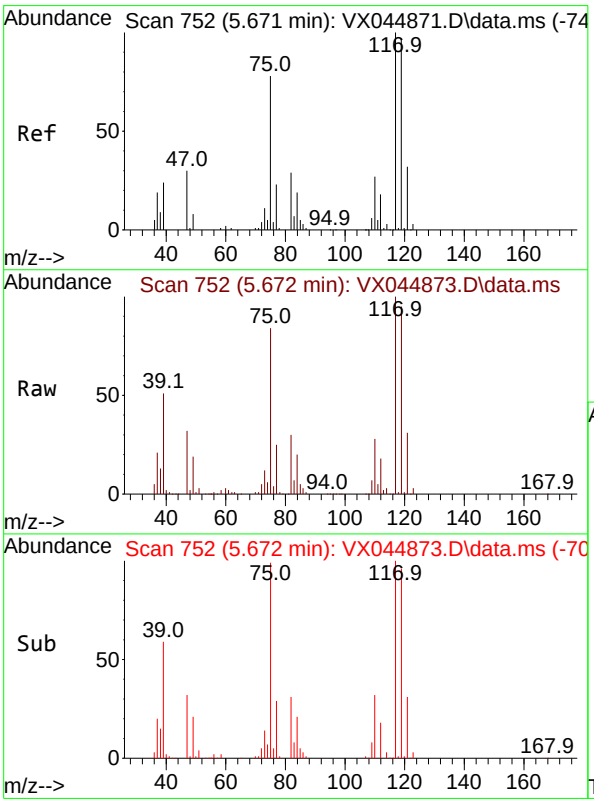
Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.0	16.4
70	10.6	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

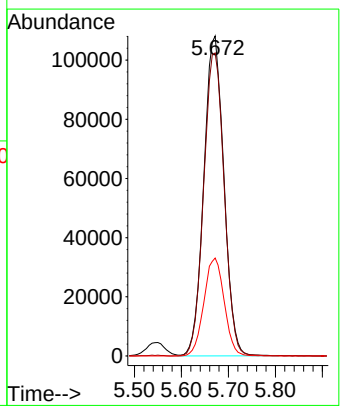
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

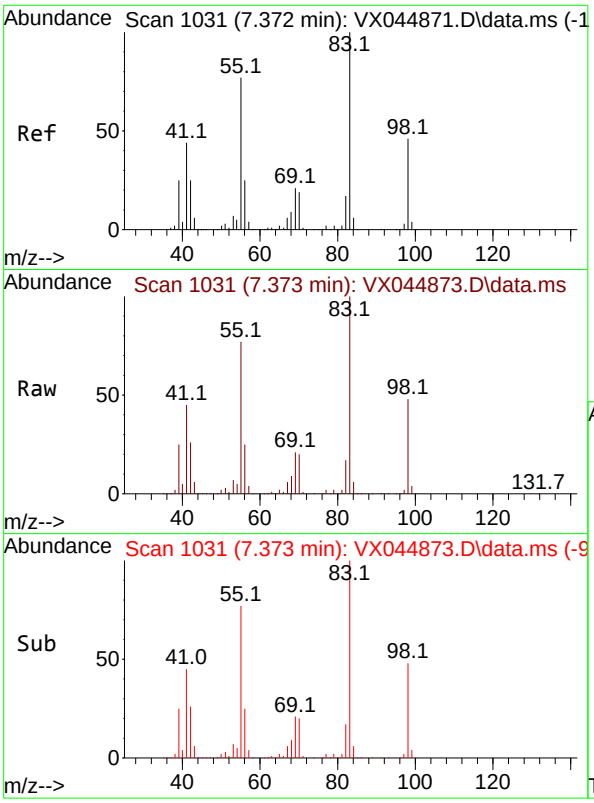


#38
Carbon Tetrachloride
Concen: 149.921 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 320536

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.5	116.3
121	30.6	25.6	38.4

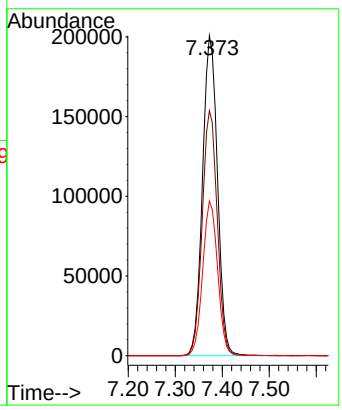




#39
Methylcyclohexane
Concen: 157.130 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 44321

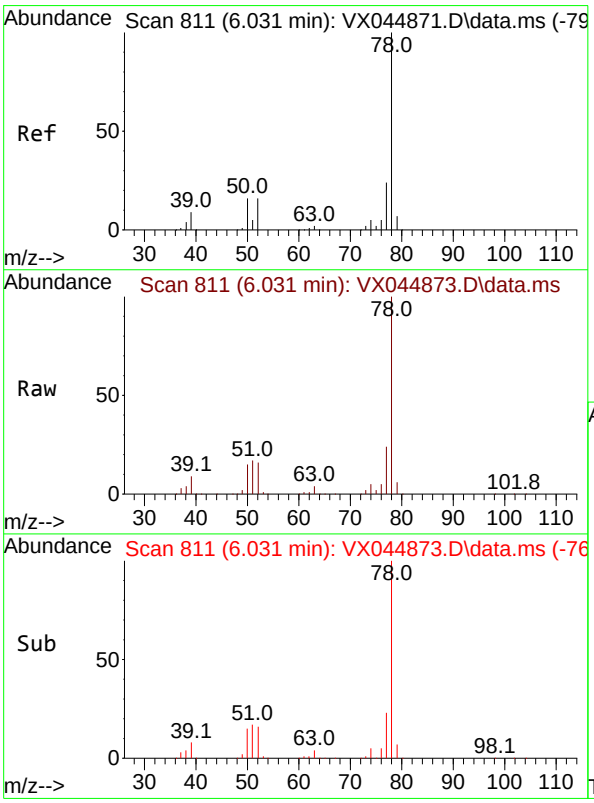
Ion	Ratio	Lower	Upper
83	100		
55	76.5	61.3	91.9
98	48.4	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

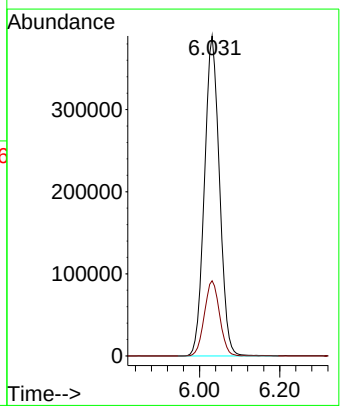
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

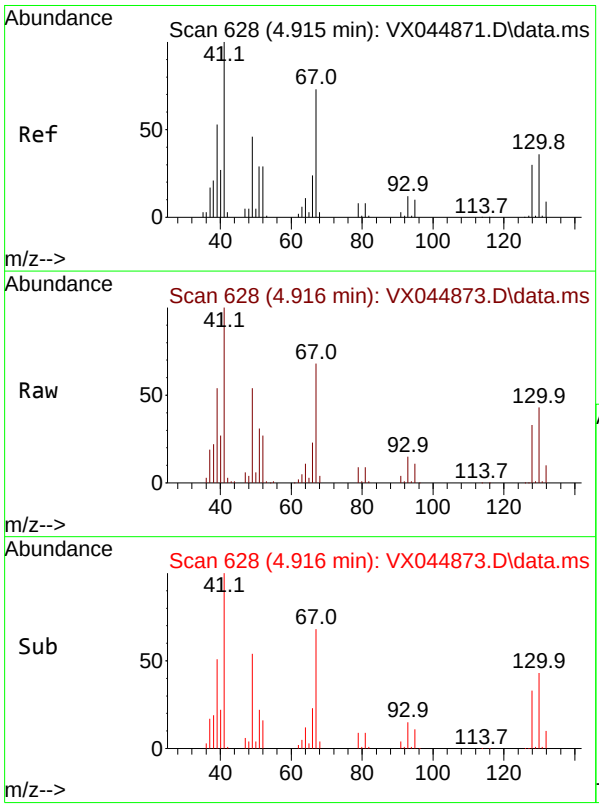


#40
Benzene
Concen: 148.856 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 78 Resp: 1014129

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6

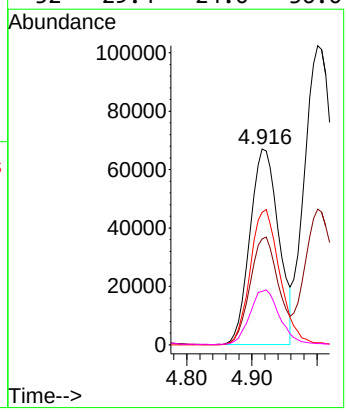




#41
Methacrylonitrile
Concen: 158.707 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 20615

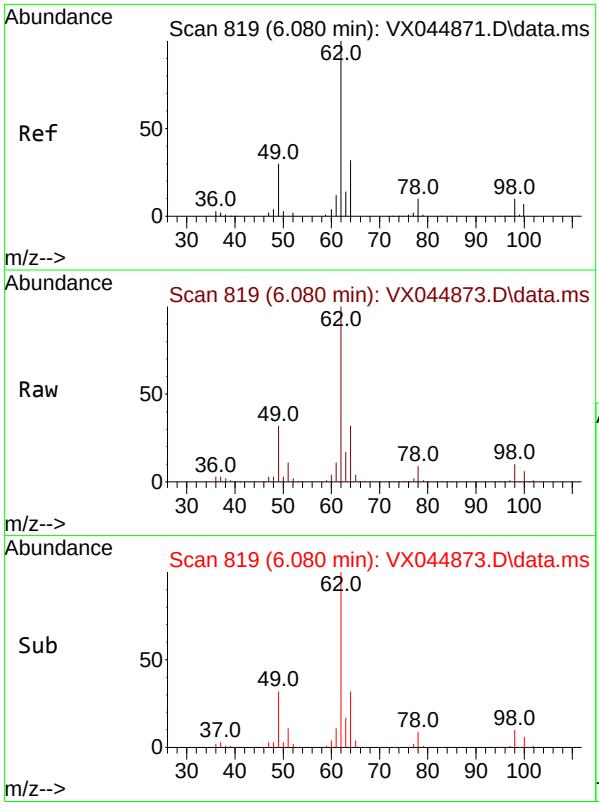
Ion	Ratio	Lower	Upper
41	100		
39	54.2	43.1	64.7
67	71.4	57.0	85.6
52	29.4	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

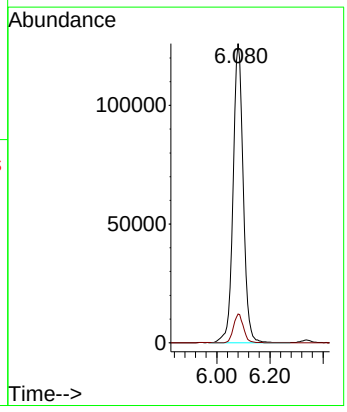
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

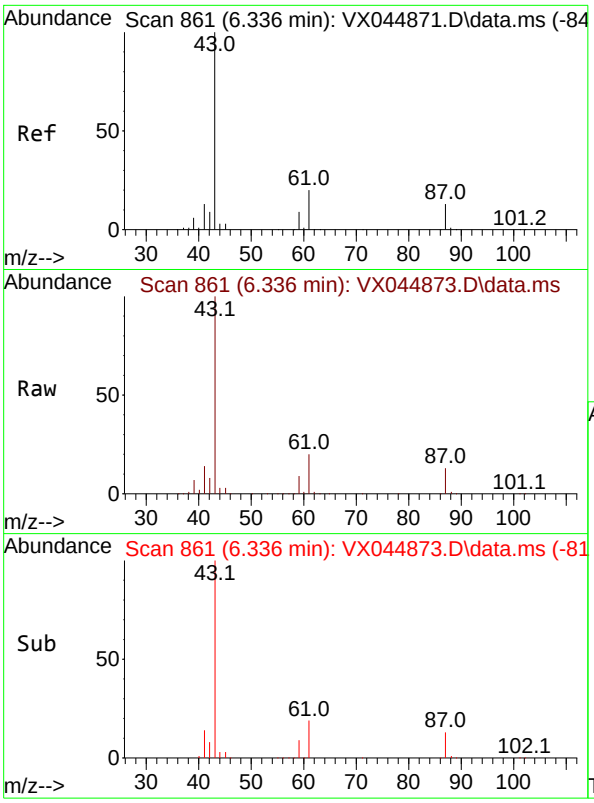


#42
1,2-Dichloroethane
Concen: 154.984 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 336520

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.4

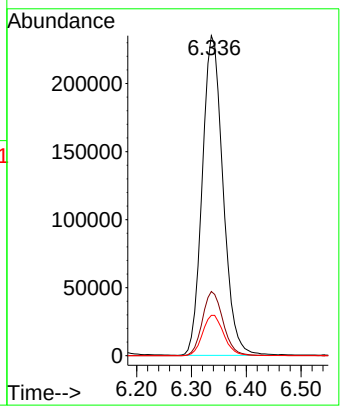




#43
Isopropyl Acetate
Concen: 157.575 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 61751

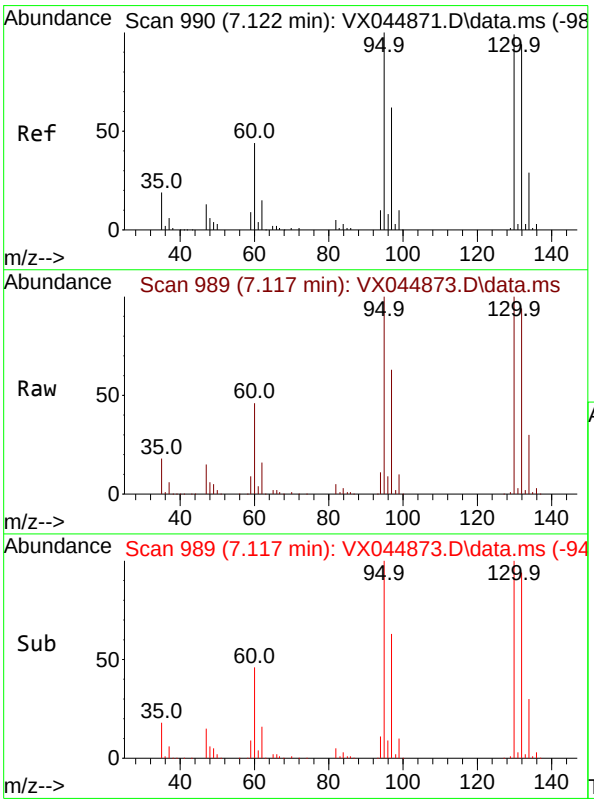
Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.8	23.8
87	12.9	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

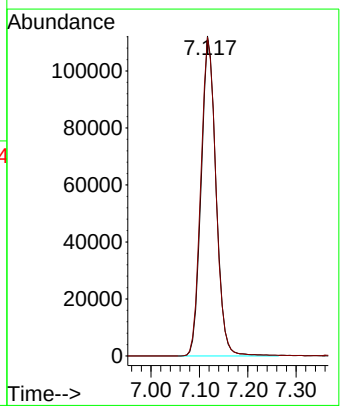
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

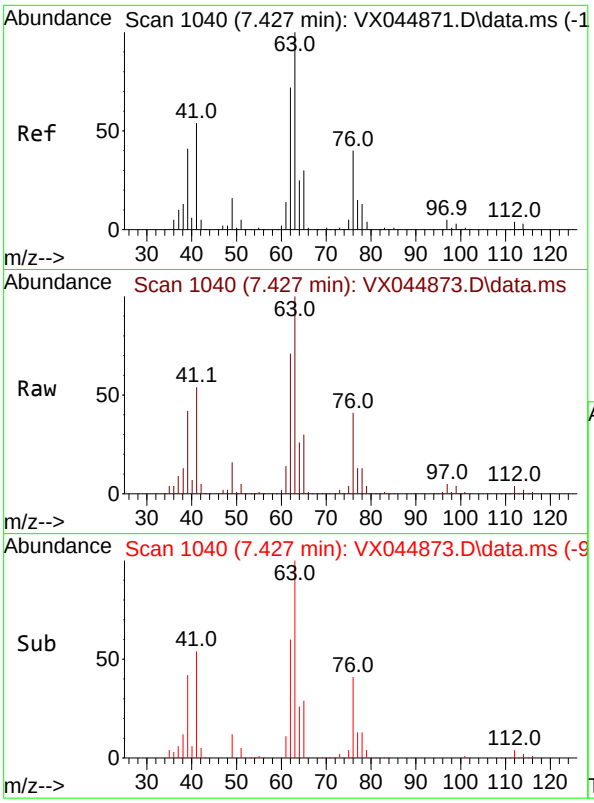


#44
Trichloroethene
Concen: 153.496 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:130 Resp: 239030

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	202.4

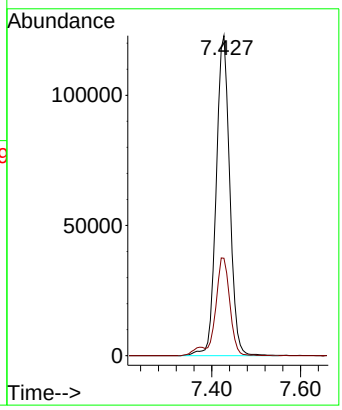




#45
1,2-Dichloropropane
Concen: 153.076 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 25945

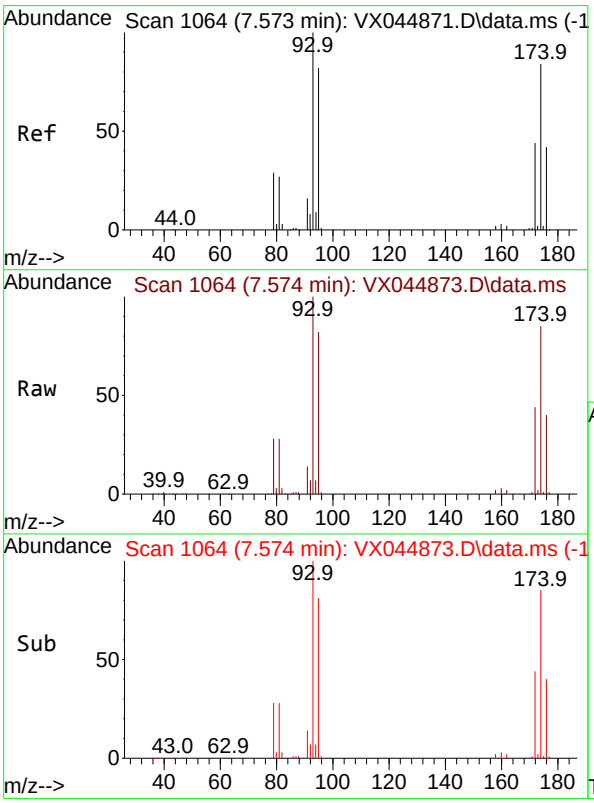
Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

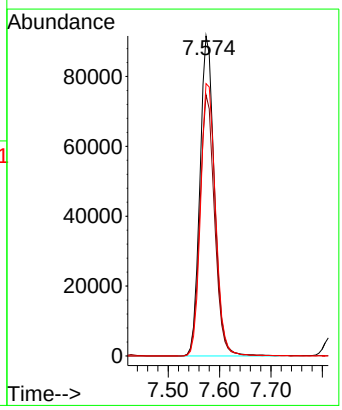
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

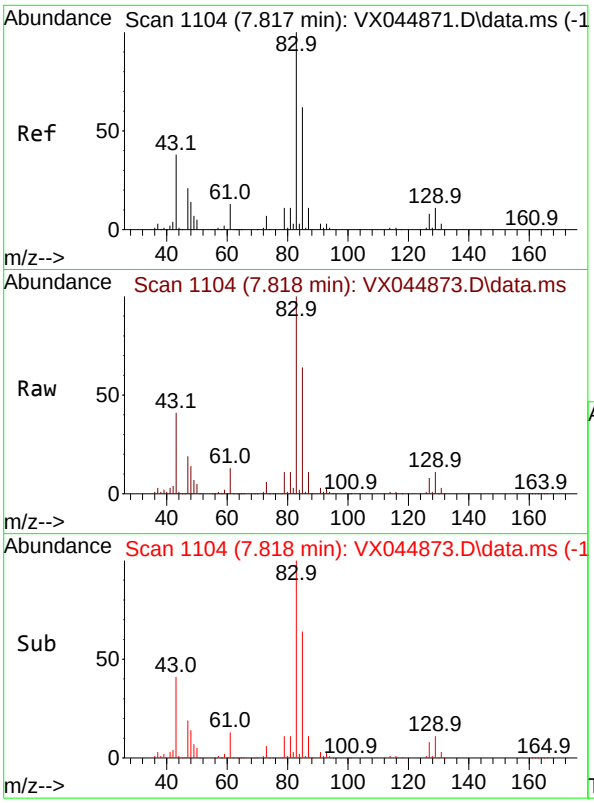


#46
Dibromomethane
Concen: 152.870 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 93 Resp: 179689

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.2	99.4
174	87.9	69.9	104.9

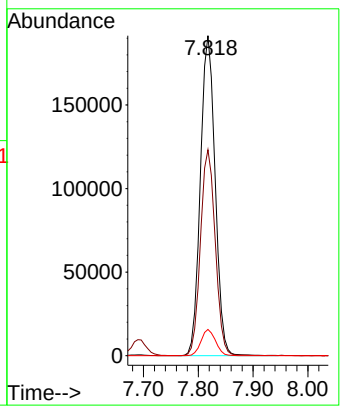




#47
Bromodichloromethane
Concen: 157.128 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 35762

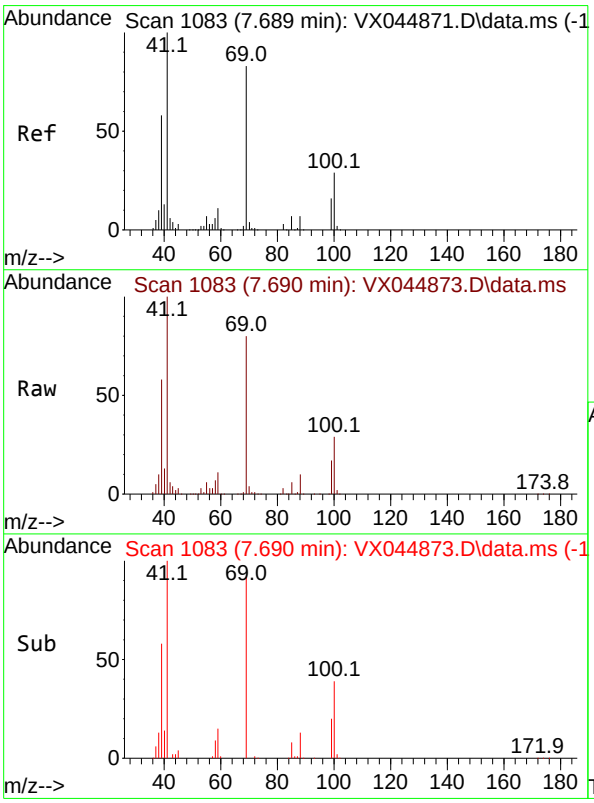
Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0
127	8.2	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

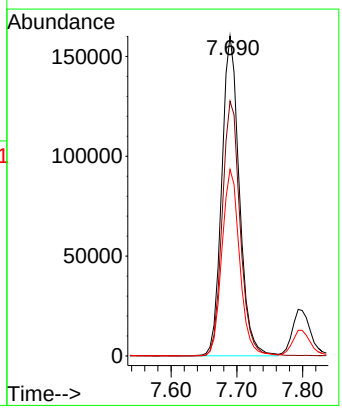
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

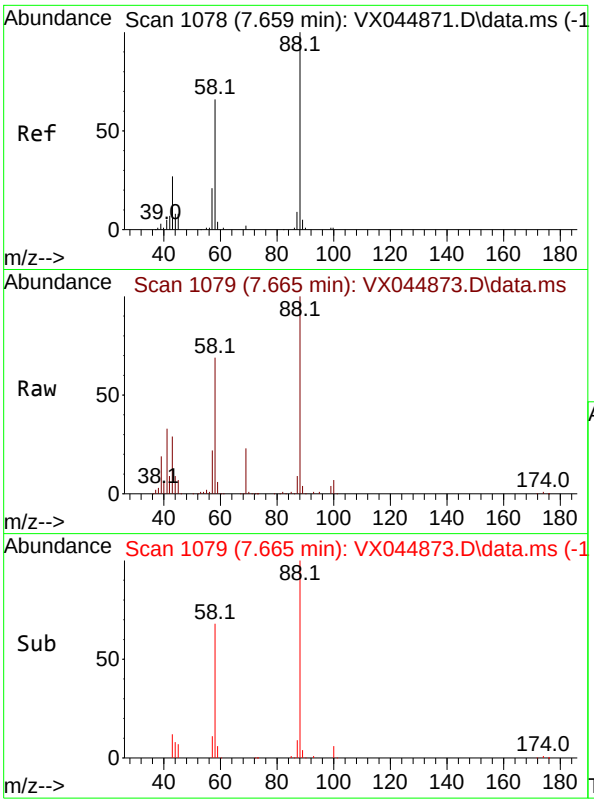


#48
Methyl methacrylate
Concen: 161.236 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 297931

Ion	Ratio	Lower	Upper
41	100		
69	81.4	65.8	98.8
39	58.7	46.4	69.6

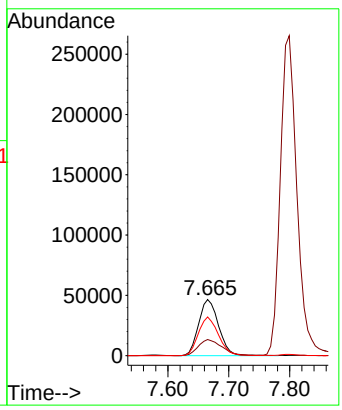




#49
1,4-Dioxane
Concen: 2678.192 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 88 Resp: 10617

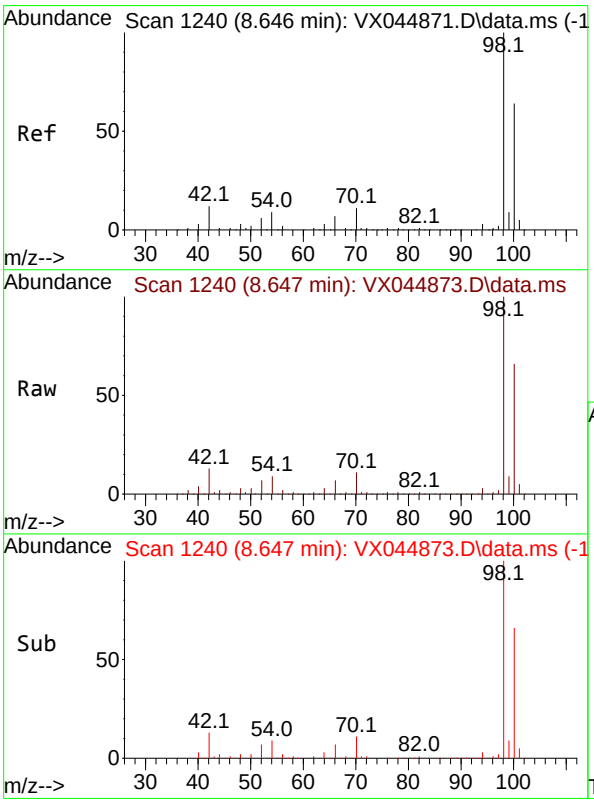
Ion	Ratio	Lower	Upper
88	100		
43	33.0	26.6	39.8
58	69.4	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

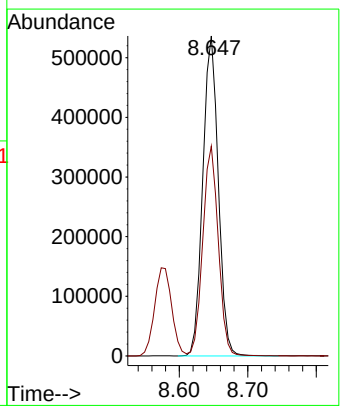
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

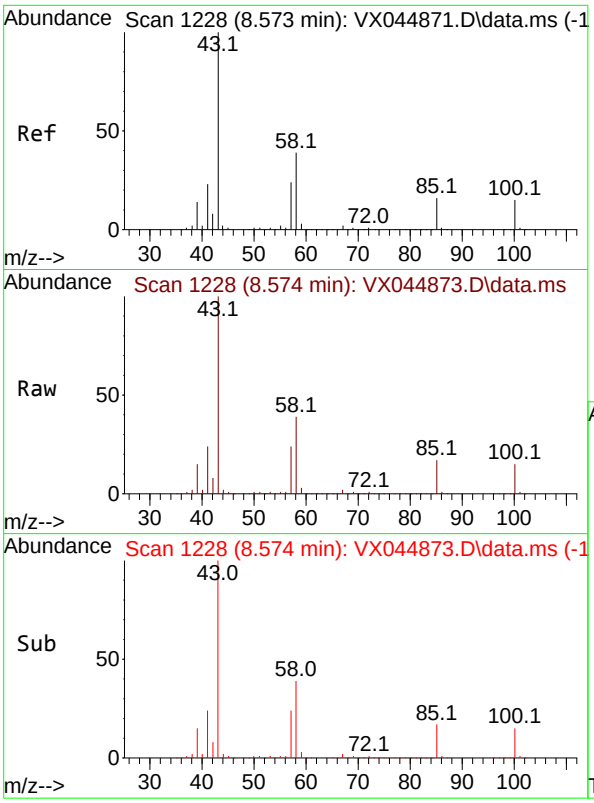


#50
Toluene-d8
Concen: 147.877 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 98 Resp: 845632

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.7	79.1

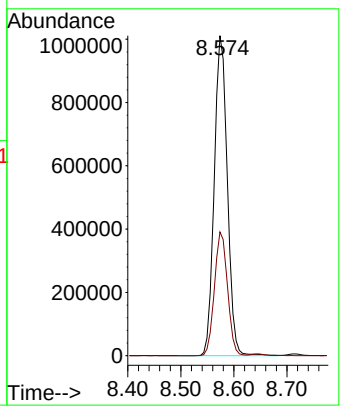




#51
4-Methyl-2-Pentanone
Concen: 728.887 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 173653

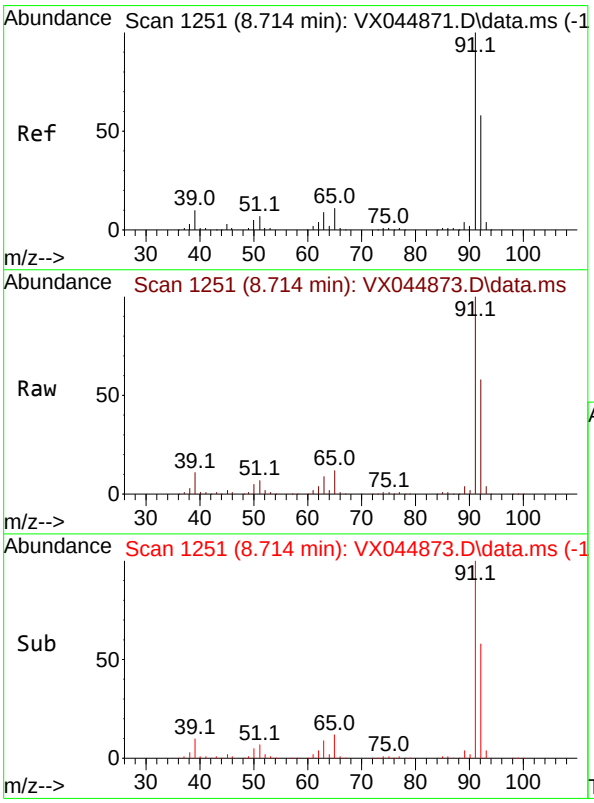
Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

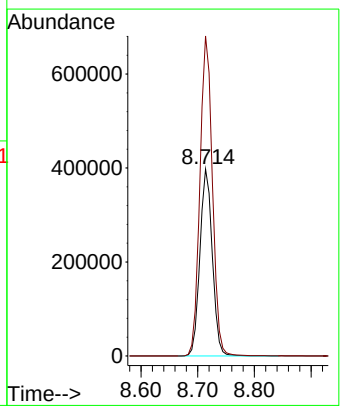
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

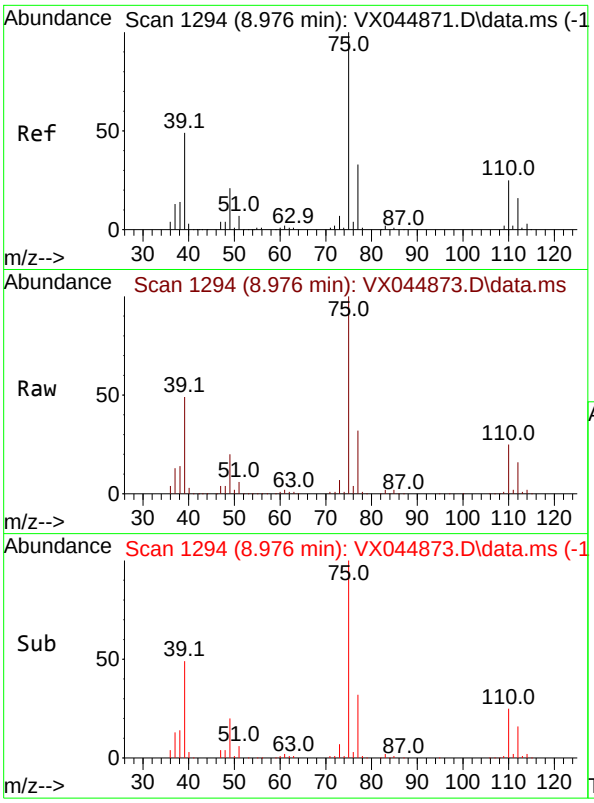


#52
Toluene
Concen: 148.645 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 92 Resp: 603113

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.4	206.2

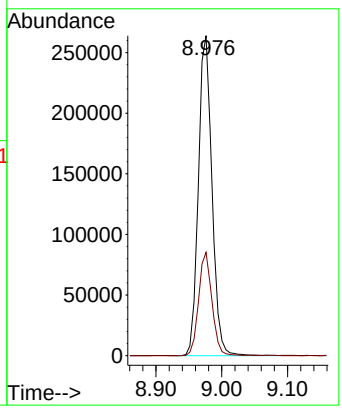




#53
t-1,3-Dichloropropene
Concen: 164.398 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 37863

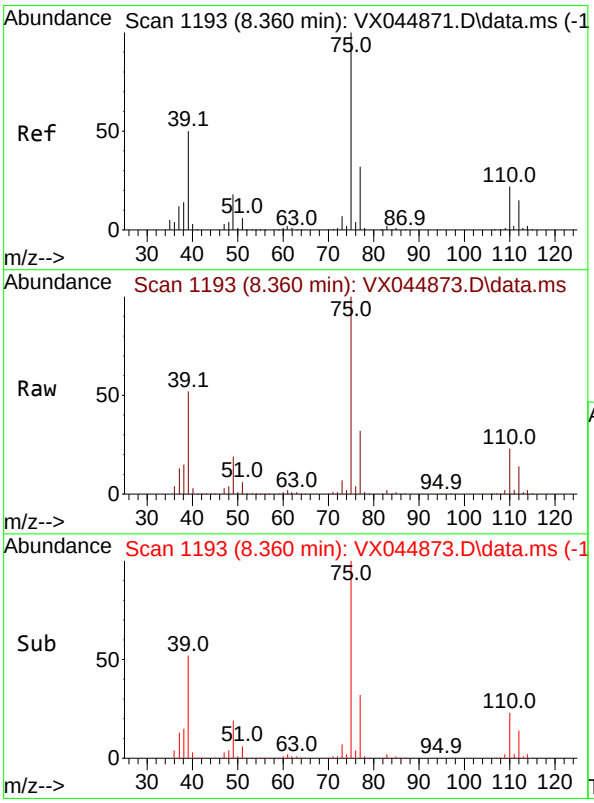
Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

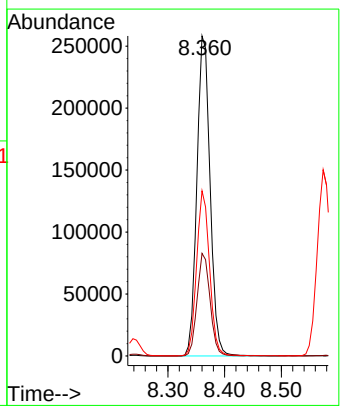
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

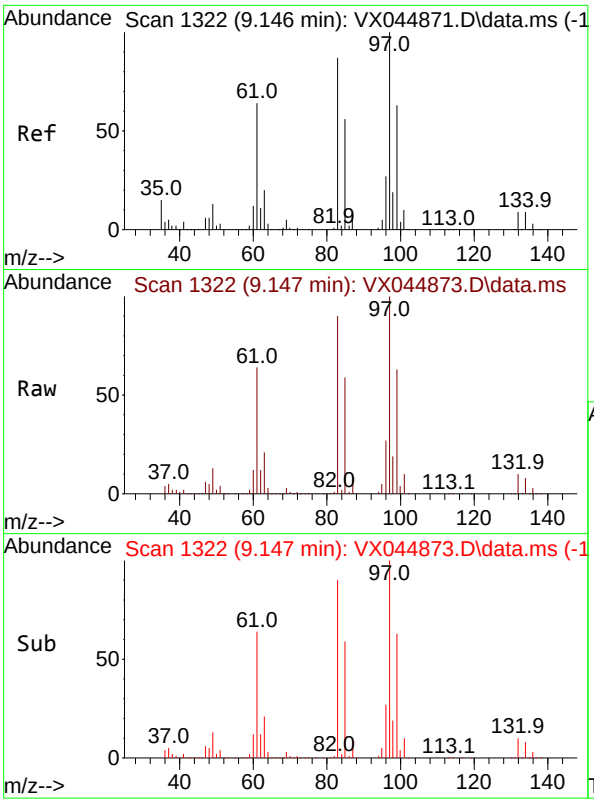


#54
cis-1,3-Dichloropropene
Concen: 162.667 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 417724

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.3	37.9
39	51.5	40.0	60.0

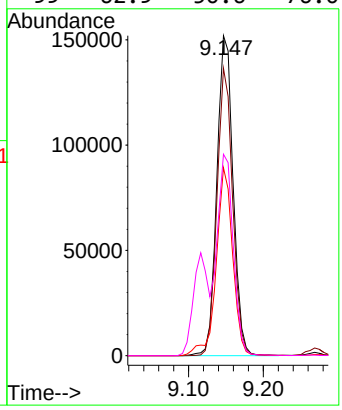




#55
1,1,2-Trichloroethane
Concen: 147.172 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 97 Resp: 22954

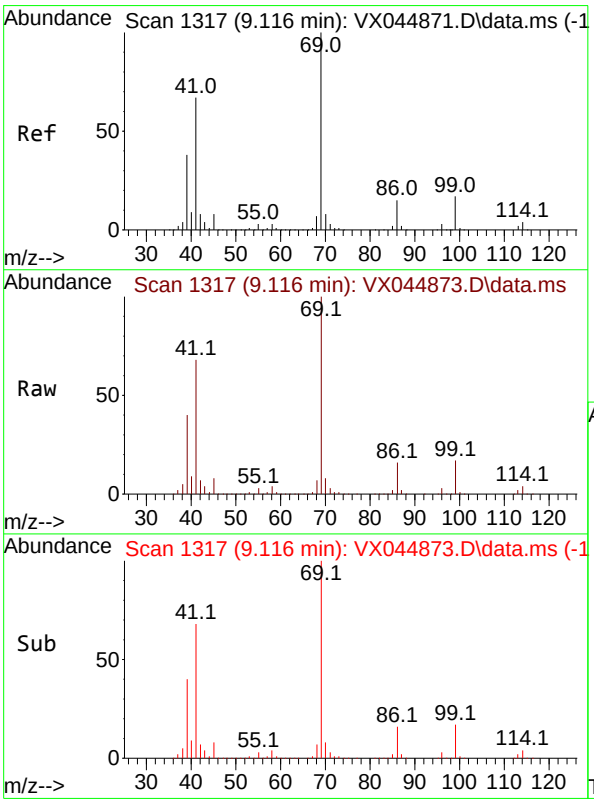
Ion	Ratio	Lower	Upper
97	100		
83	89.8	69.8	104.6
85	58.7	44.8	67.2
99	62.9	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

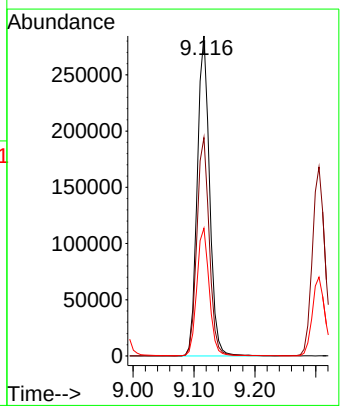
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

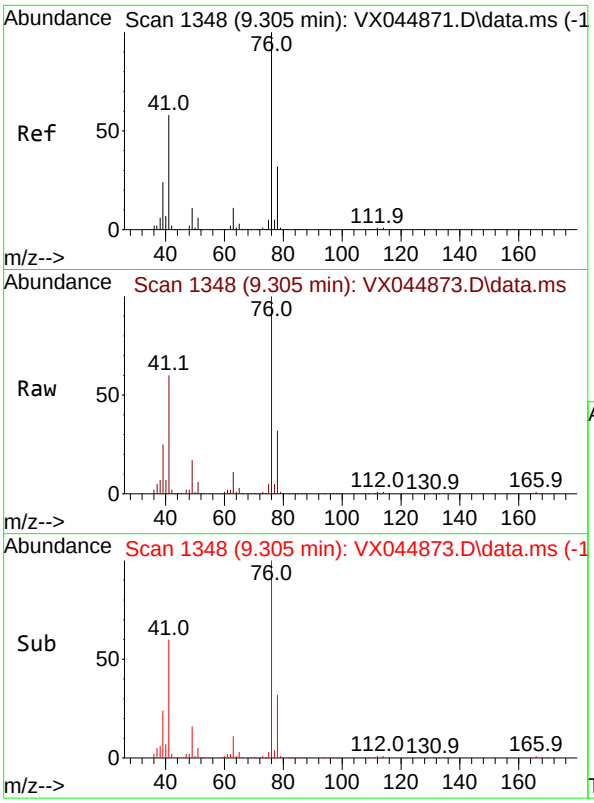


#56
Ethyl methacrylate
Concen: 158.205 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 69 Resp: 398535

Ion	Ratio	Lower	Upper
69	100		
41	68.7	55.2	82.8
39	40.0	30.8	46.2

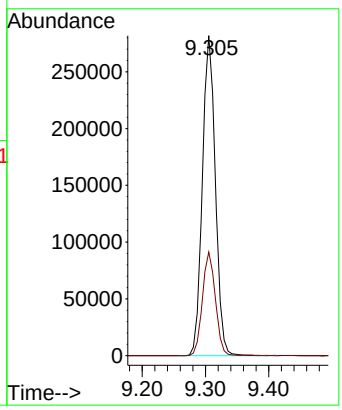




#57
1,3-Dichloropropane
Concen: 147.915 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 76 Resp: 40366

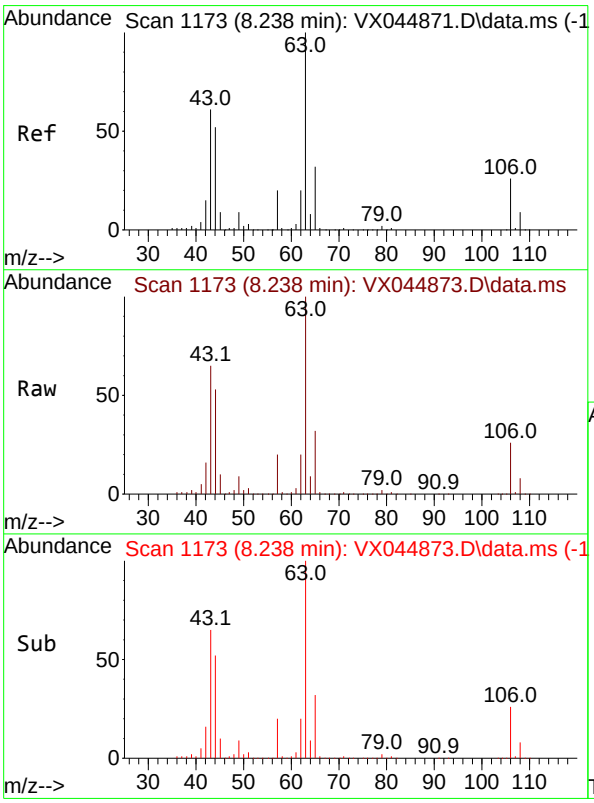
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

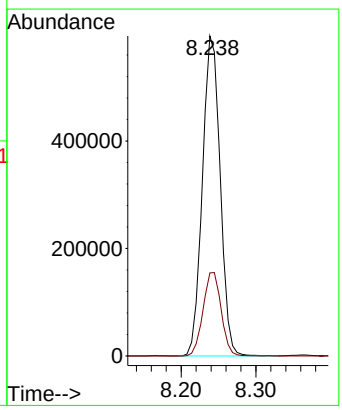
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

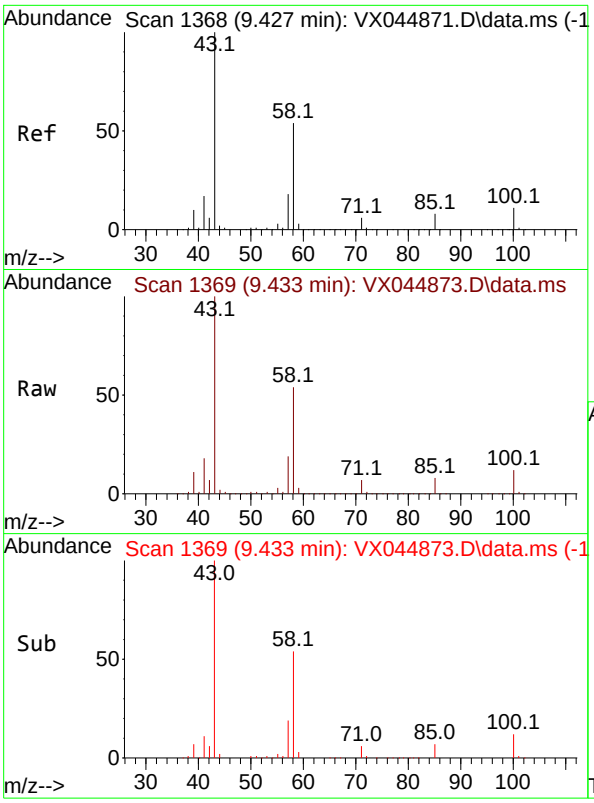


#58
2-Chloroethyl Vinyl ether
Concen: 794.010 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 982120

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9

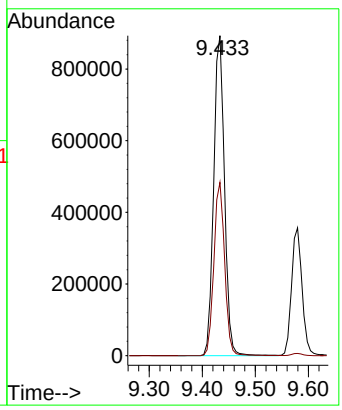




#59
2-Hexanone
Concen: 736.622 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 126447

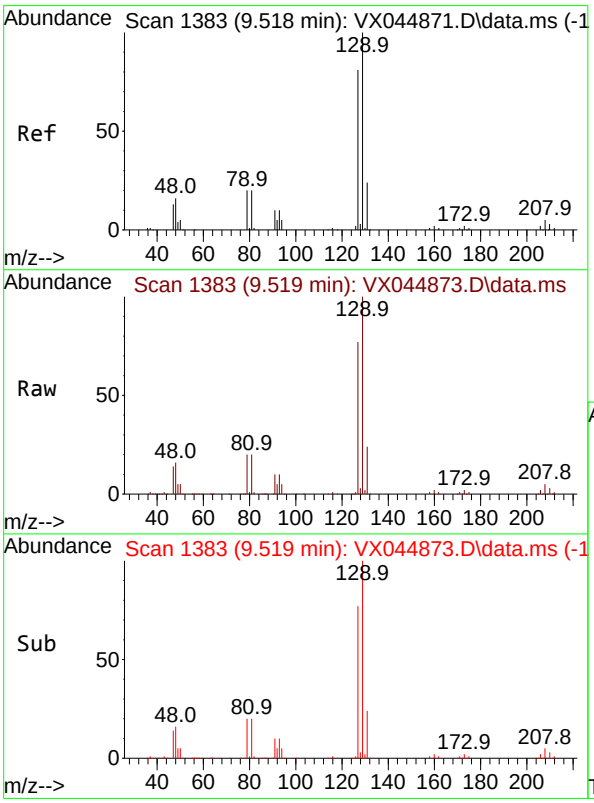
Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

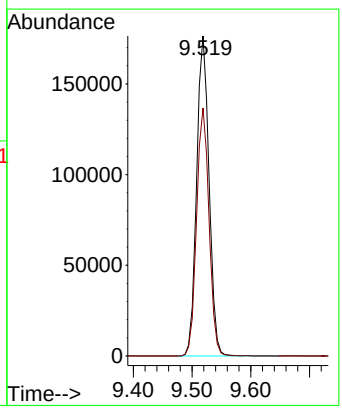
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

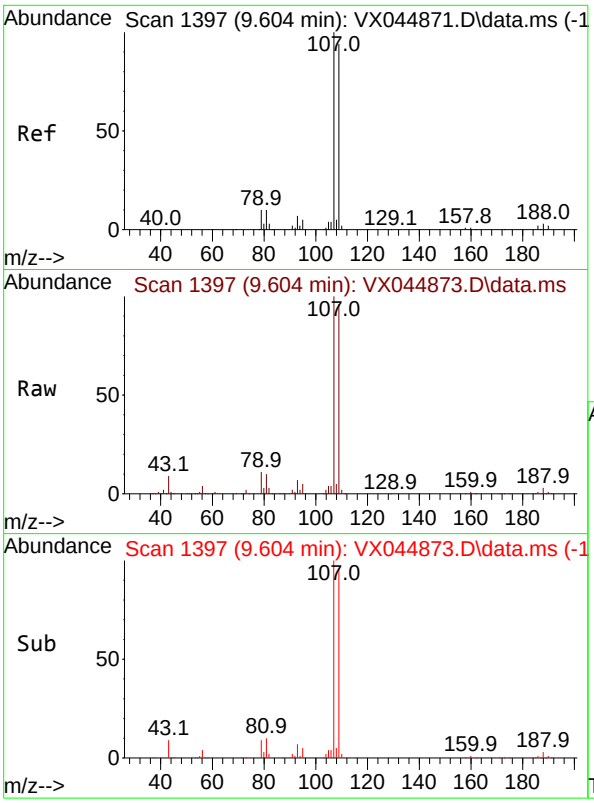


#60
Dibromochloromethane
Concen: 154.862 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:129 Resp: 258320

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.1	117.3

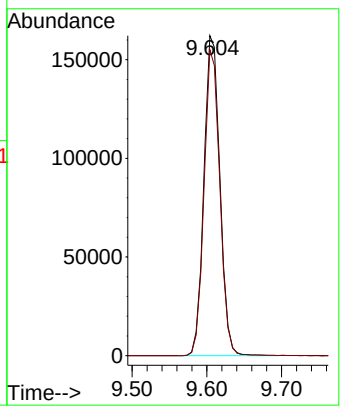




#61
1,2-Dibromoethane
Concen: 152.157 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:107 Resp: 24053

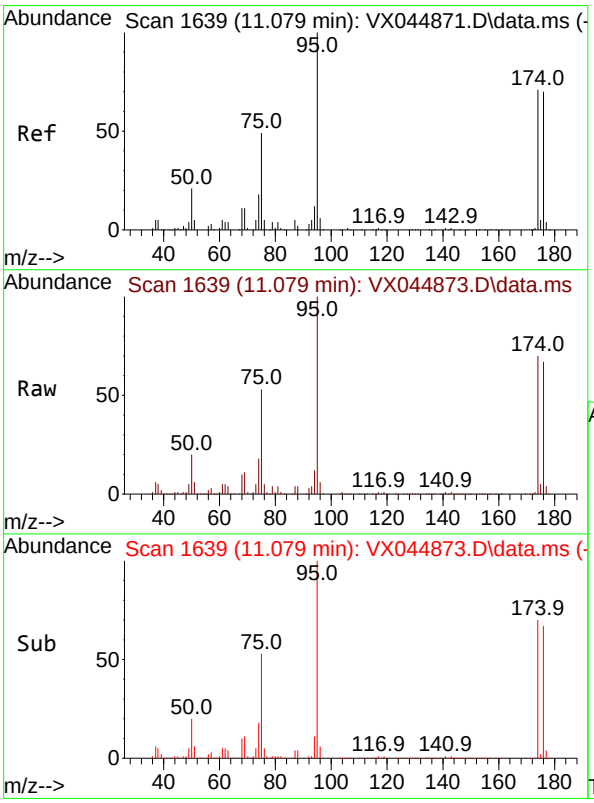
Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

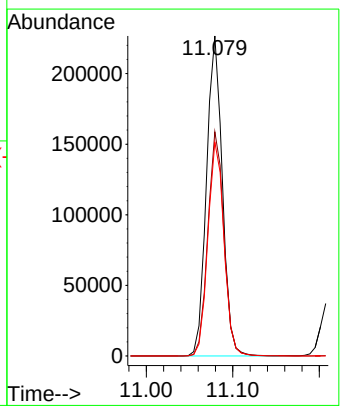
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

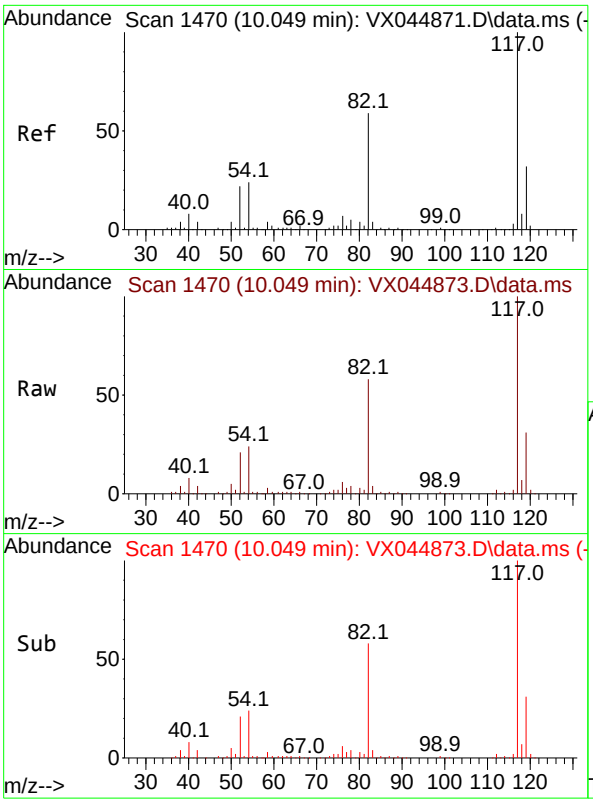


#62
4-Bromofluorobenzene
Concen: 149.124 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 95 Resp: 287486

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	142.6
176	68.0	0.0	141.6

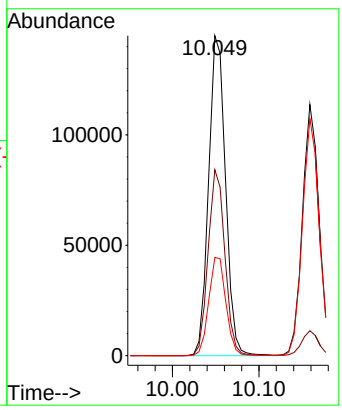




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 19666

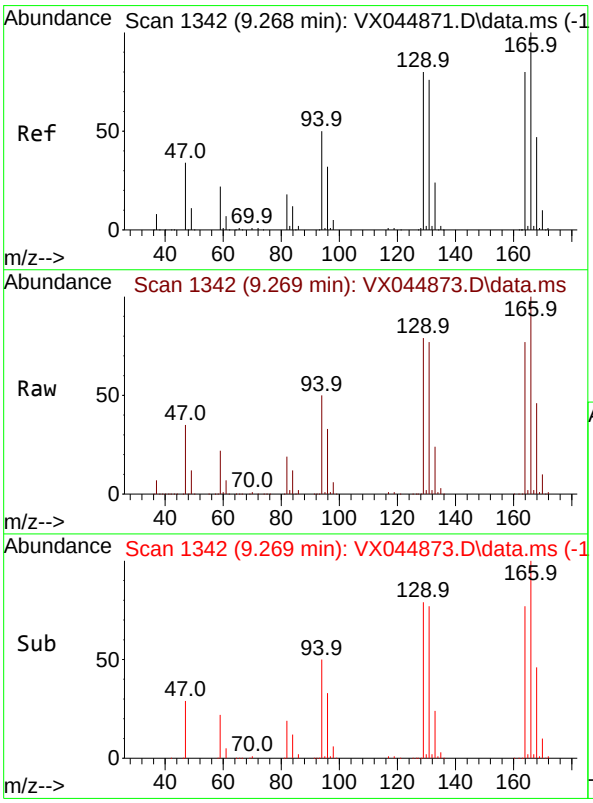
Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.5	71.3
119	30.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

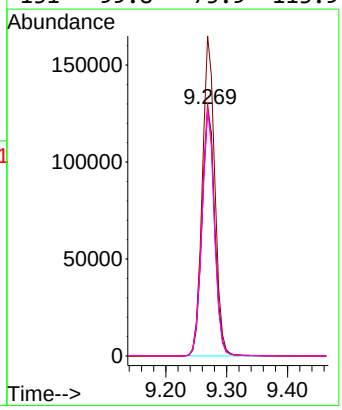
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

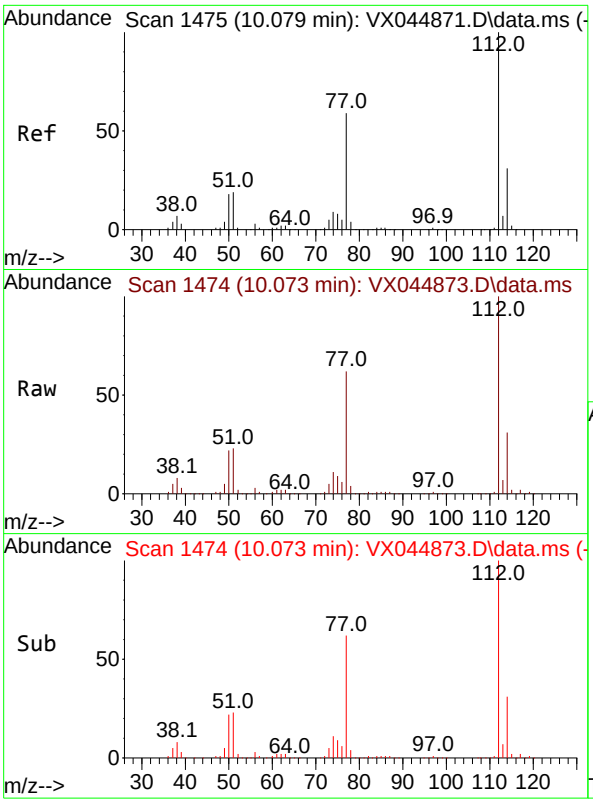


#64
Tetrachloroethene
Concen: 149.155 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:164 Resp: 184990

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.4	150.6
129	102.3	79.9	119.9
131	99.8	75.9	113.9

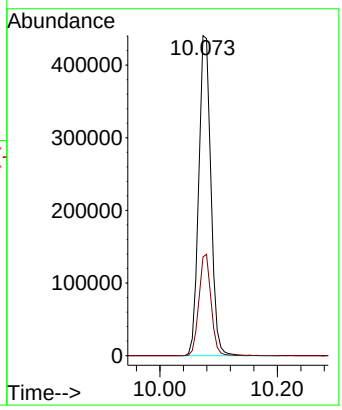




#65
Chlorobenzene
Concen: 150.224 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:112 Resp: 63455

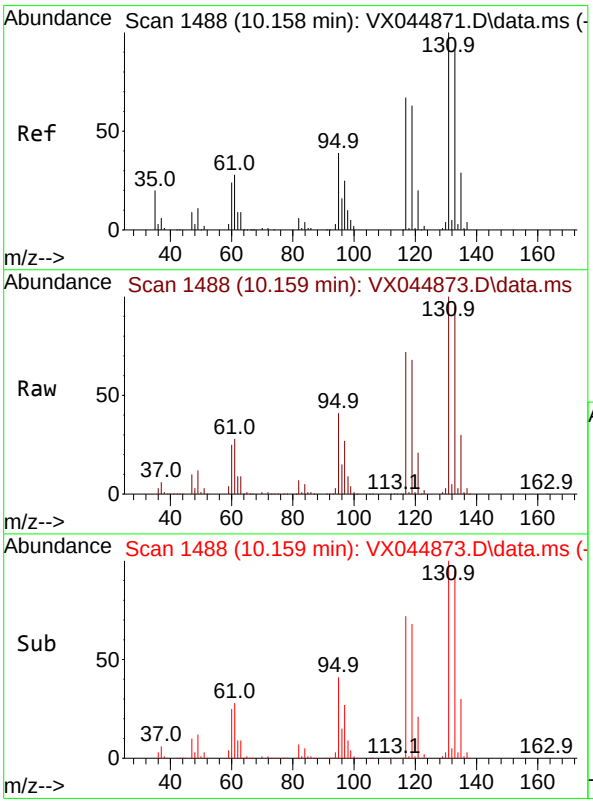
Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

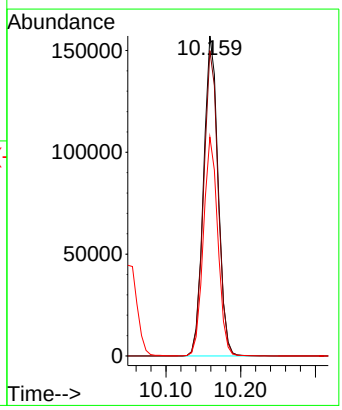
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

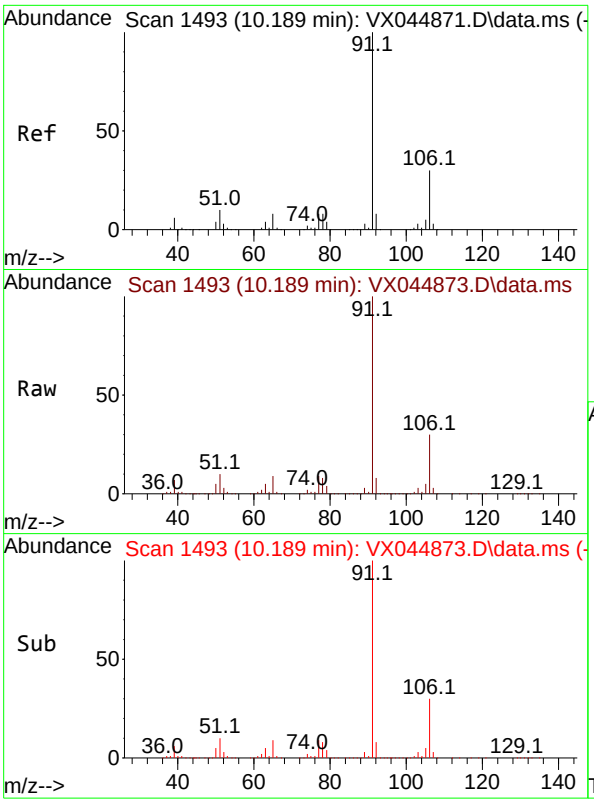


#66
1,1,1,2-Tetrachloroethane
Concen: 156.255 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:131 Resp: 212441

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.1	141.3
119	67.9	33.6	100.6





#67
Ethyl Benzene
Concen: 152.647 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

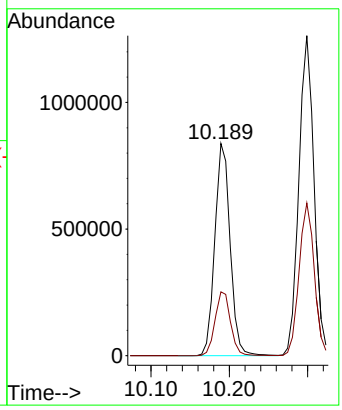
Tgt Ion: 91 Resp: 113784

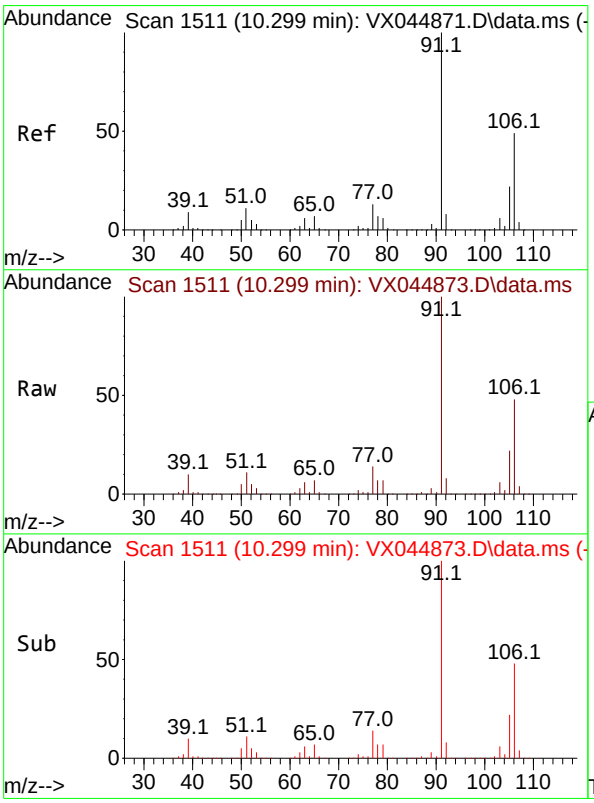
Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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

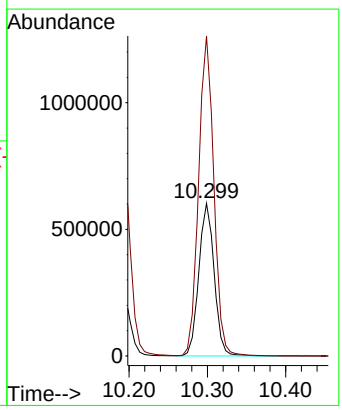


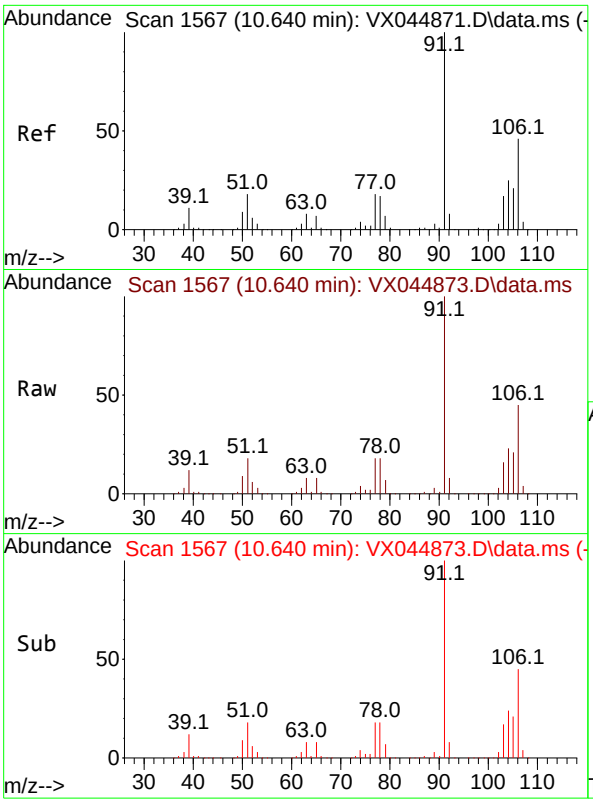


#68
m/p-Xylenes
Concen: 297.841 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:106 Resp: 818971

Ion	Ratio	Lower	Upper
106	100		
91	208.6	164.3	246.5

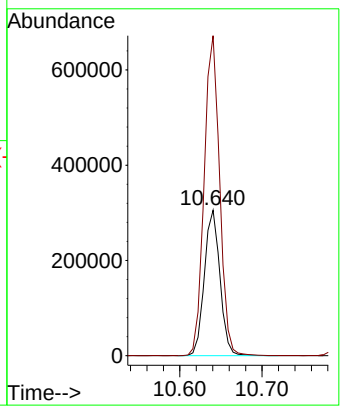




#69
o-Xylene
Concen: 145.674 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:106 Resp: 40192

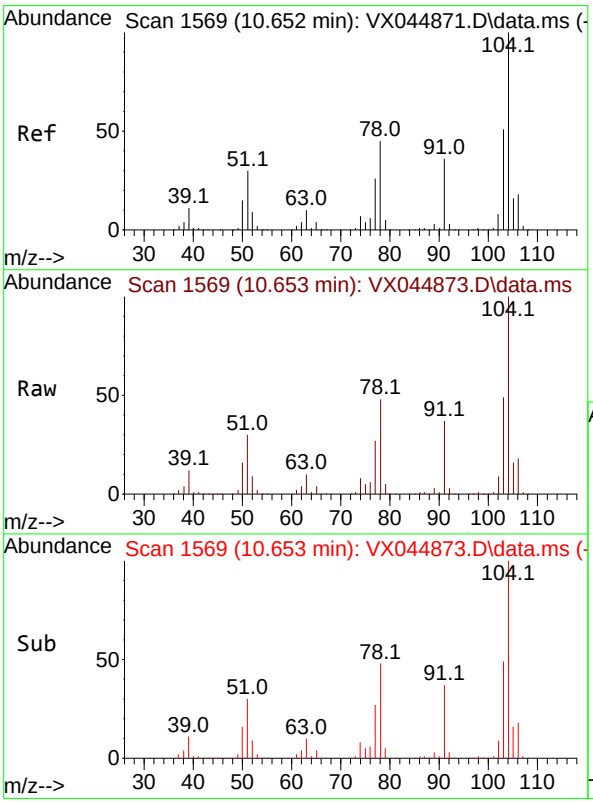
Ion	Ratio	Lower	Upper
106	100		
91	218.9	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

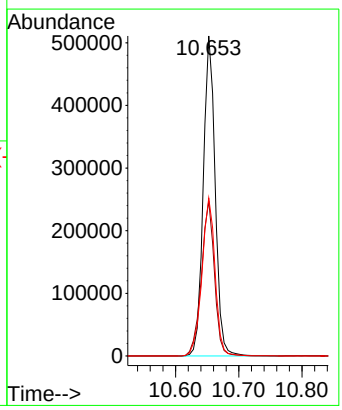
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

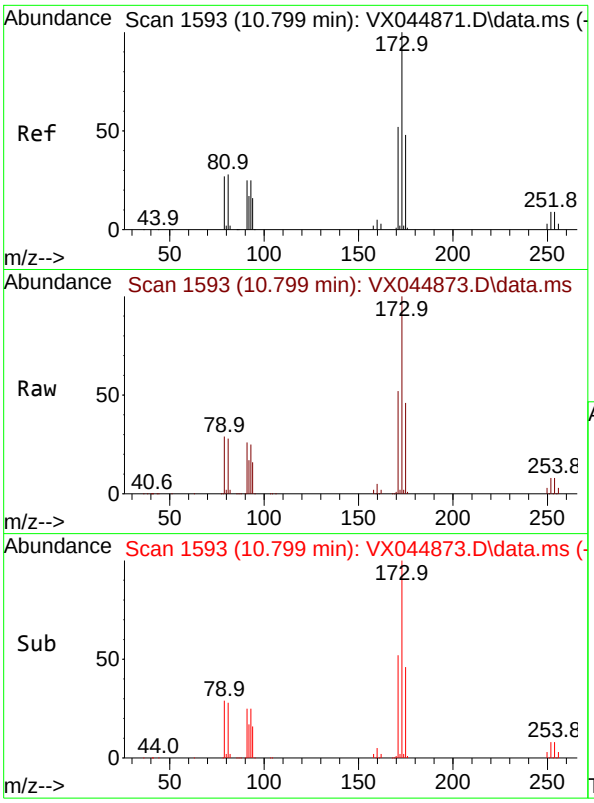


#70
Styrene
Concen: 151.140 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:104 Resp: 671843

Ion	Ratio	Lower	Upper
104	100		
78	53.0	40.5	60.7
103	54.5	43.6	65.4

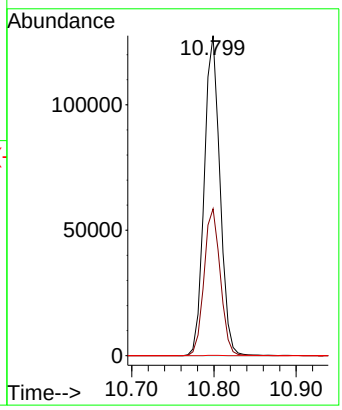




#71
Bromoform
Concen: 167.033 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:173 Resp: 16948

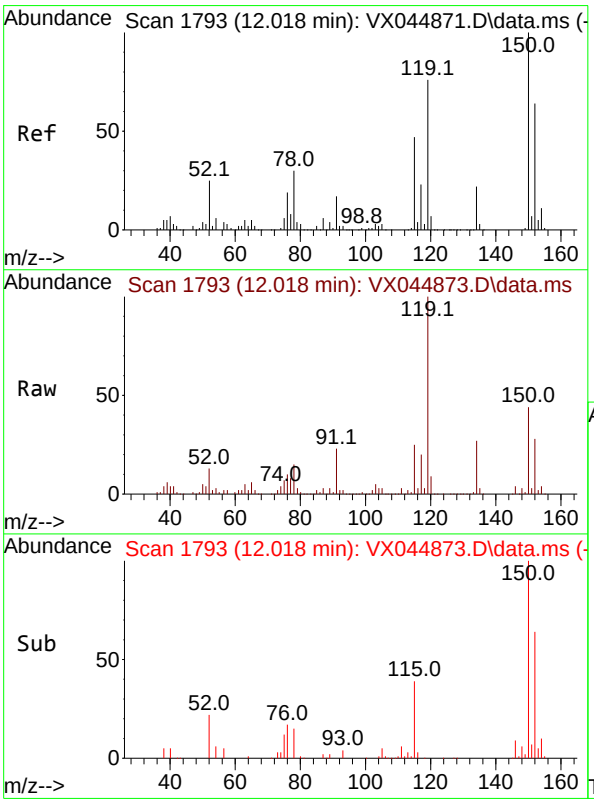
Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	72.8
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

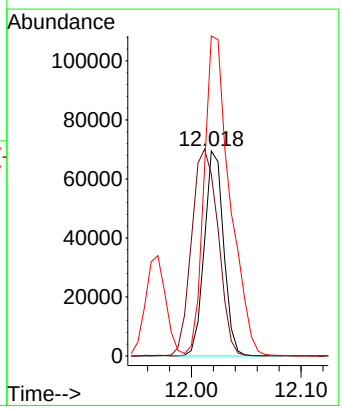
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

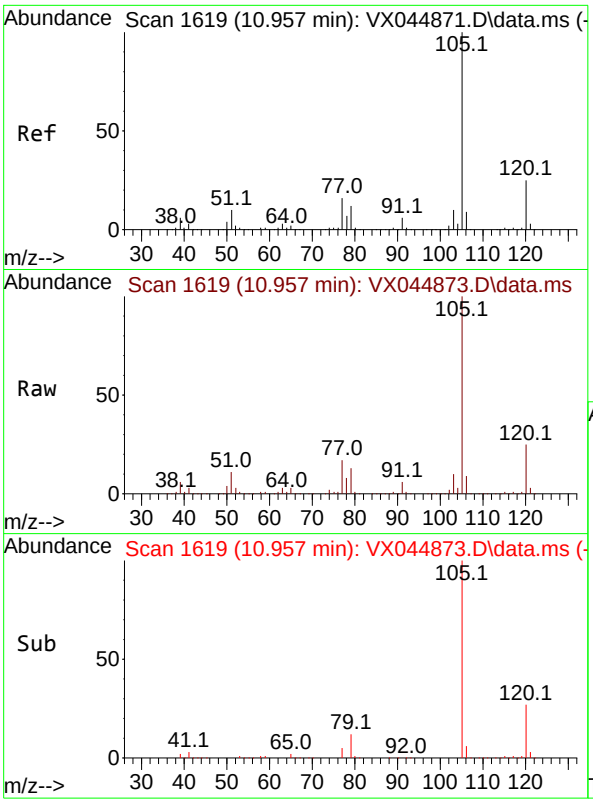


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:152 Resp: 84836

Ion	Ratio	Lower	Upper
152	100		
115	139.2	43.4	130.1#
150	209.6	0.0	350.4

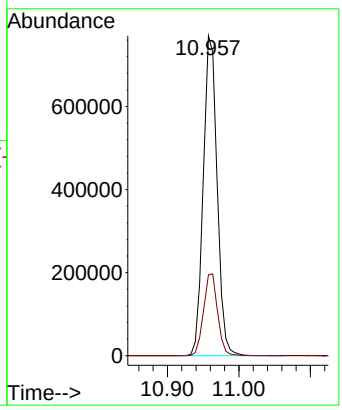




#73
Isopropylbenzene
Concen: 151.869 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 103740

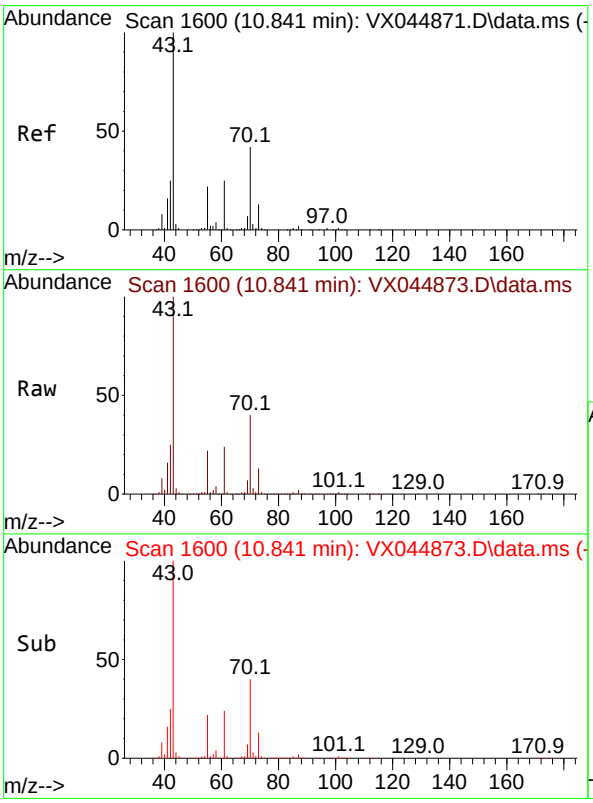
Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

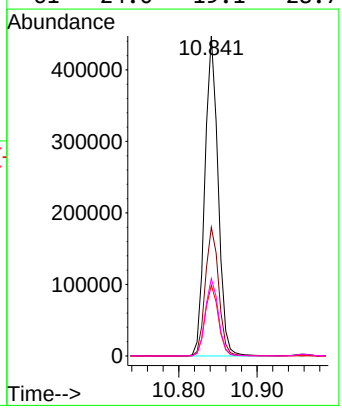
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

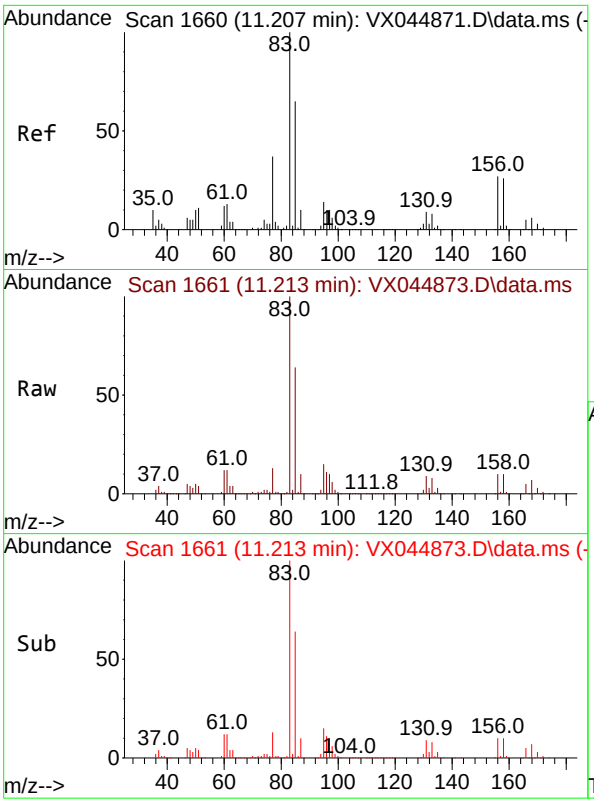


#74
N-amyl acetate
Concen: 168.861 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 521962

Ion	Ratio	Lower	Upper
43	100		
70	41.0	33.7	50.5
55	22.3	18.6	27.8
61	24.0	19.1	28.7

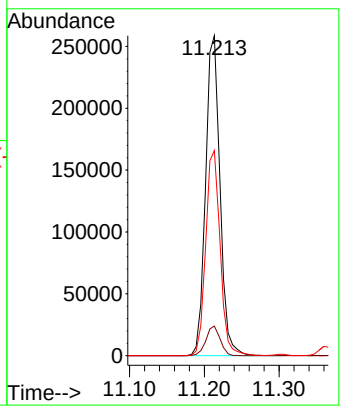




#75
1,1,2,2-Tetrachloroethane
Concen: 147.409 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 34601

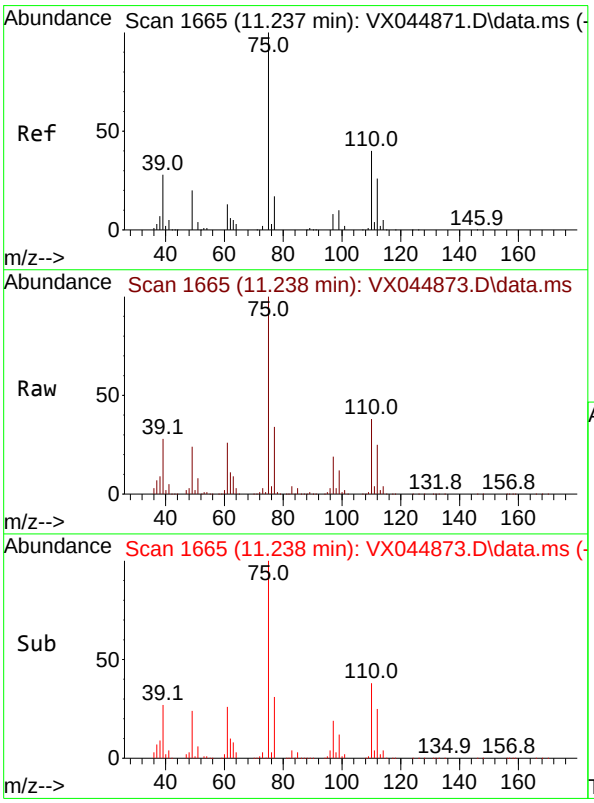
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	64.3	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

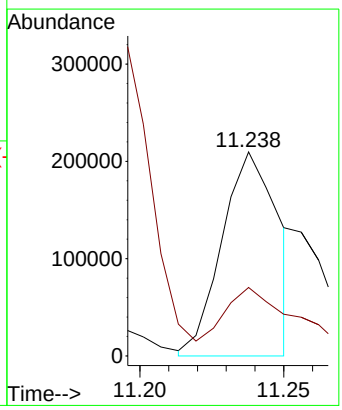
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

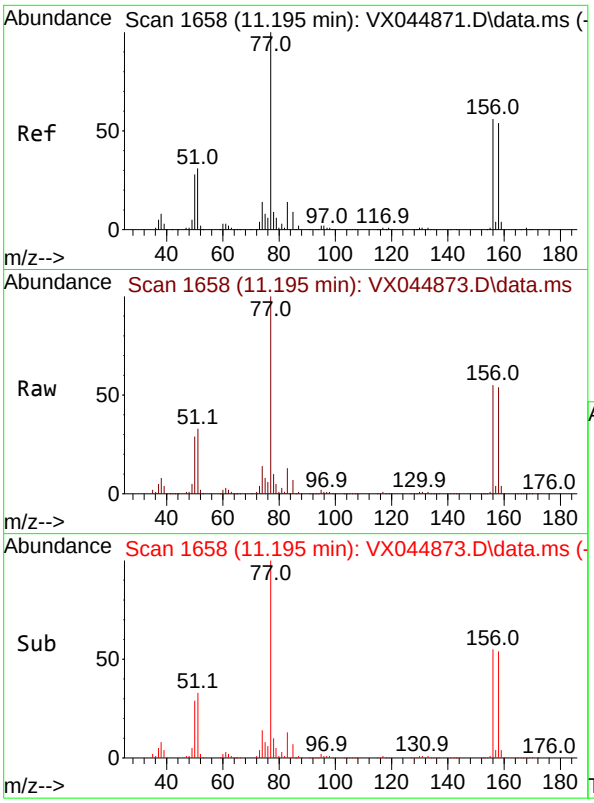


#76
1,2,3-Trichloropropane
Concen: 151.485 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 284934

Ion	Ratio	Lower	Upper
75	100		
77	44.3	21.9	65.7

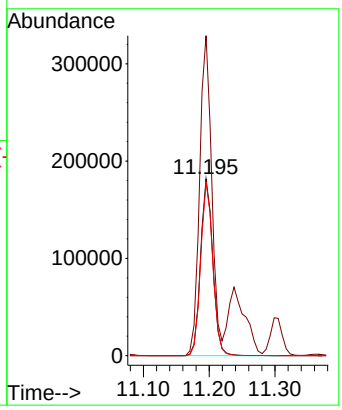




#77
Bromobenzene
Concen: 151.715 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:156 Resp: 23495

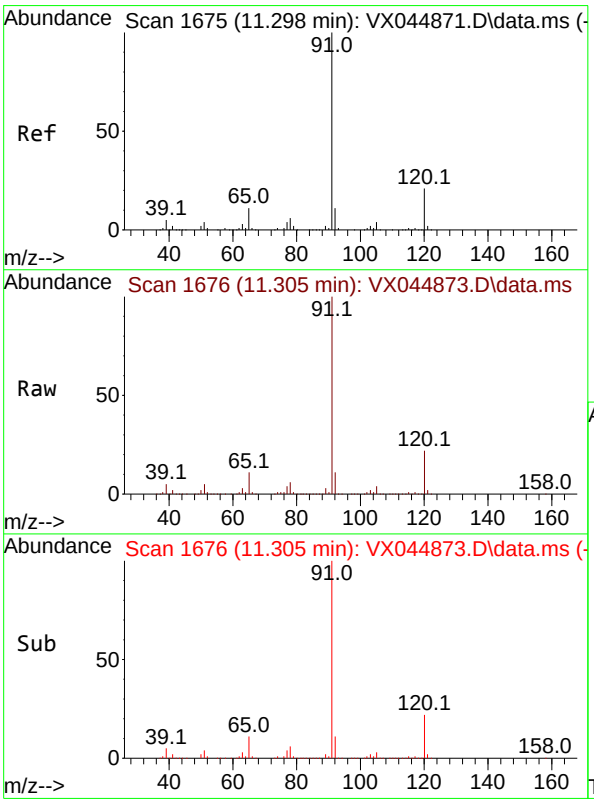
Ion	Ratio	Lower	Upper
156	100		
77	179.2	88.4	265.3
158	97.1	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

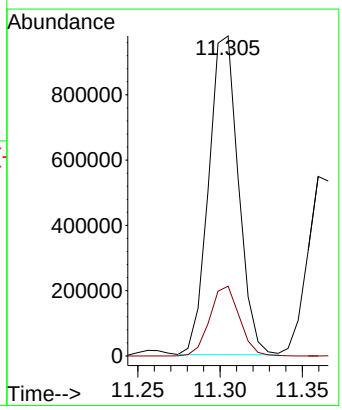
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

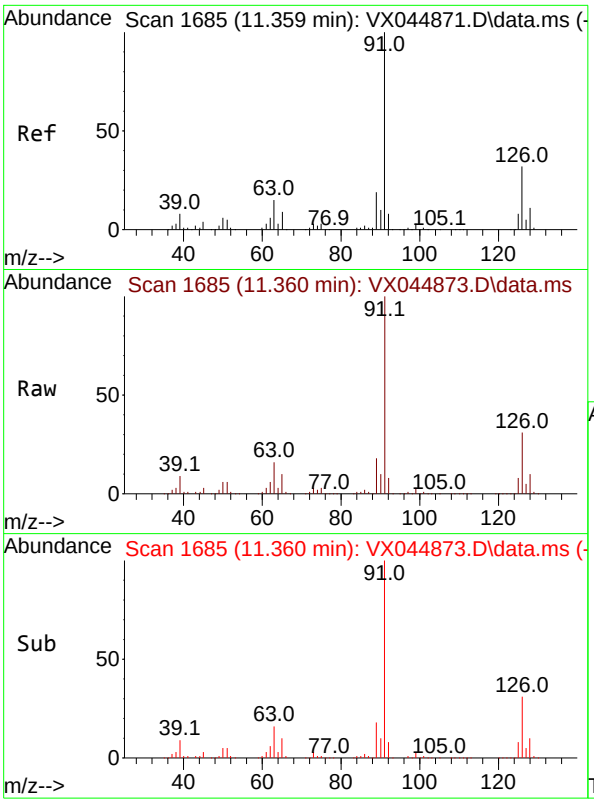


#78
n-propylbenzene
Concen: 156.140 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 1231079

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.1	33.3





#79
2-Chlorotoluene
Concen: 148.123 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

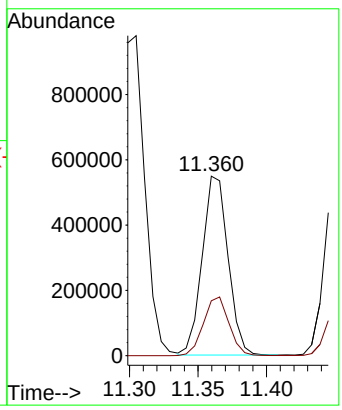
Tgt Ion: 91 Resp: 71776

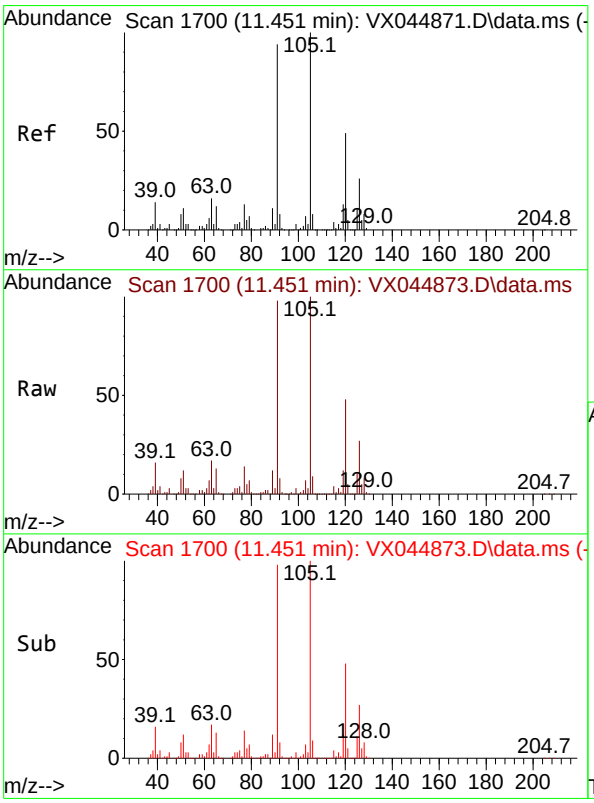
Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.2	48.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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

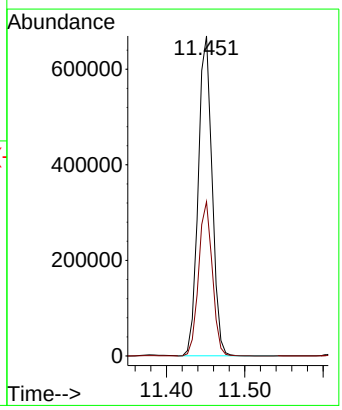


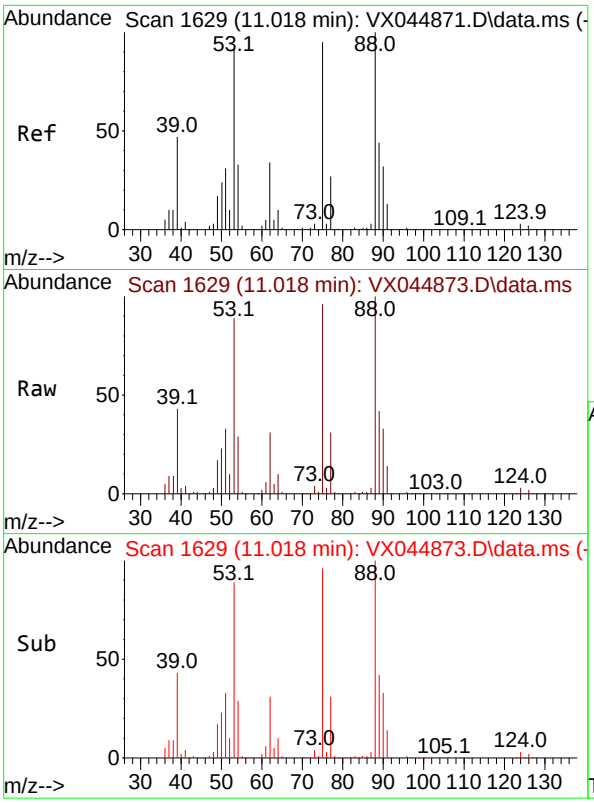


#80
1,3,5-Trimethylbenzene
Concen: 148.415 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 822707

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 173.221 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

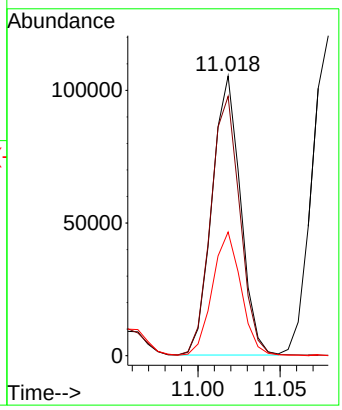
Tgt Ion: 75 Resp: 12666

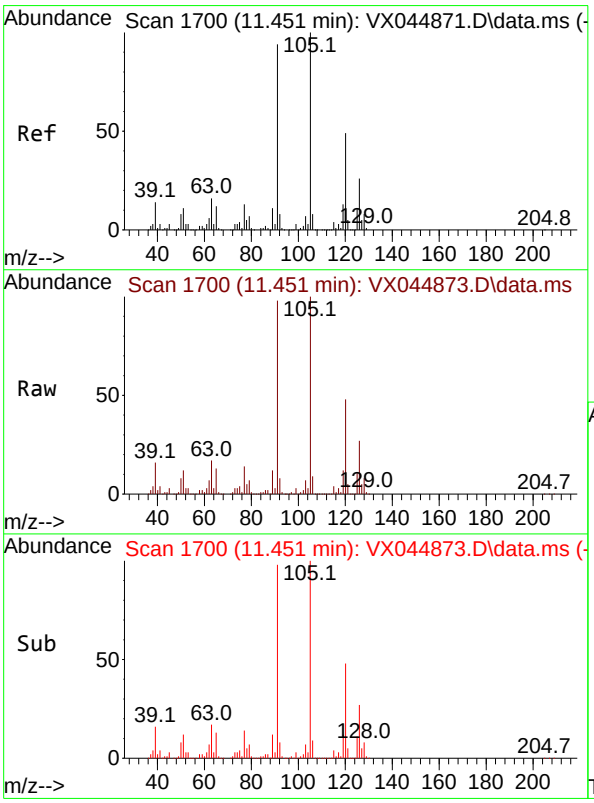
Ion	Ratio	Lower	Upper
75	100		
53	95.2	78.0	117.0
89	44.7	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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

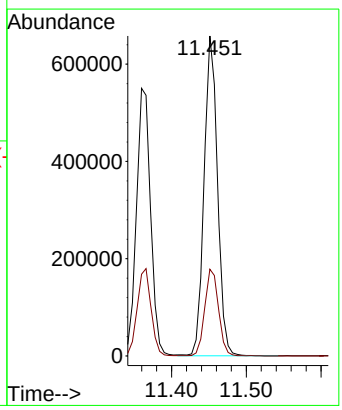


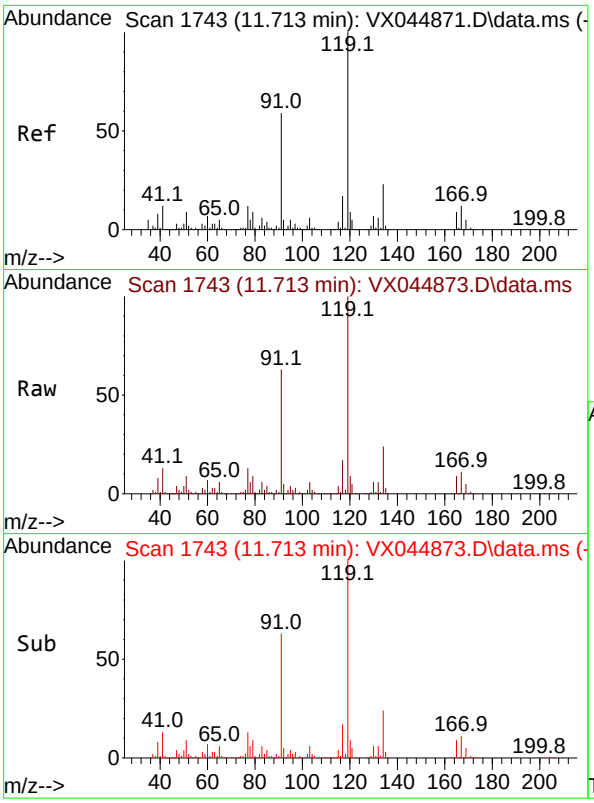


#82
4-Chlorotoluene
Concen: 152.602 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 818099

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.2	42.6

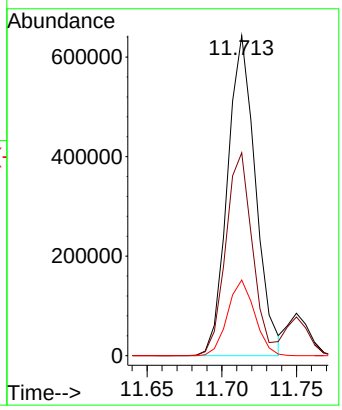




#83
tert-Butylbenzene
Concen: 149.610 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:119 Resp: 83897

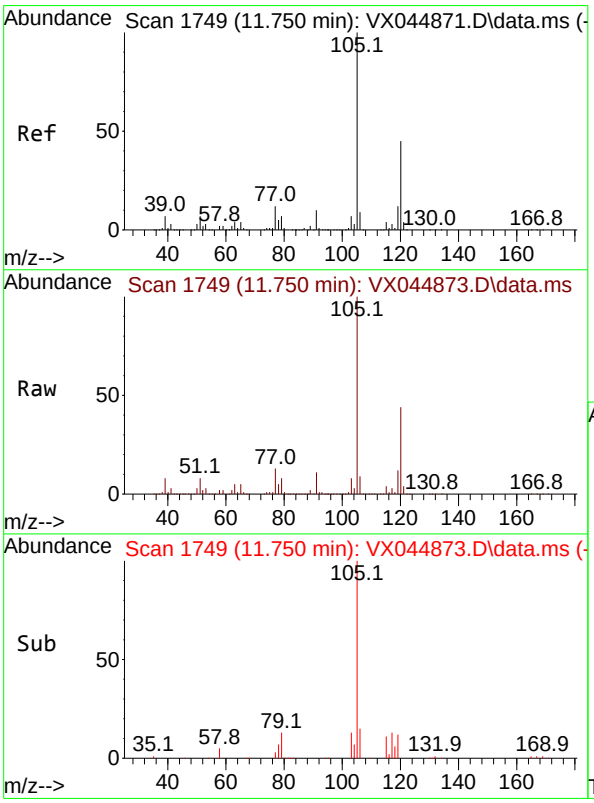
Ion	Ratio	Lower	Upper
119	100		
91	61.1	29.1	87.4
134	22.9	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

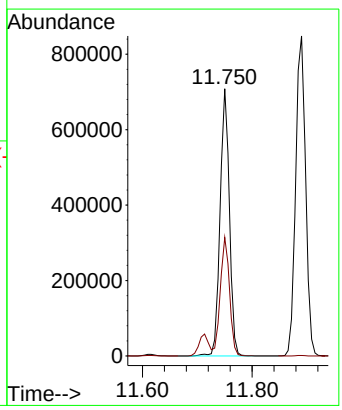
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

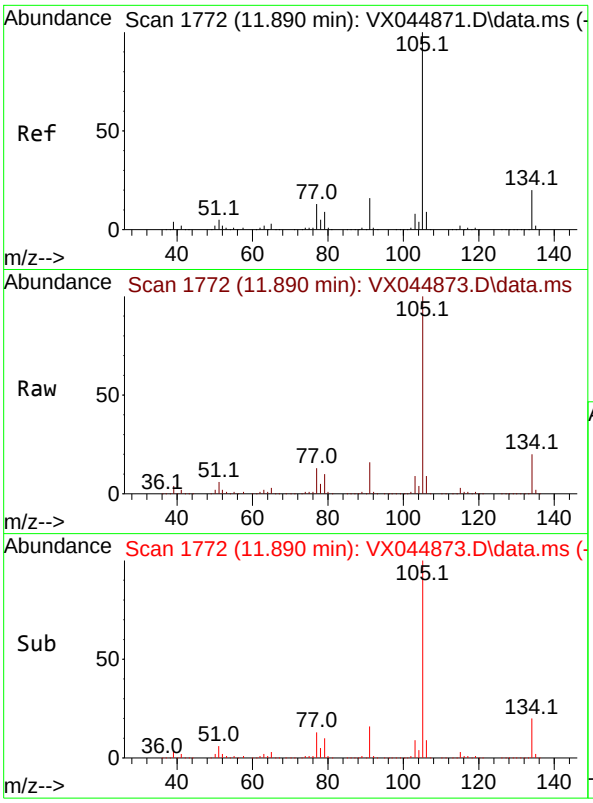


#84
1,2,4-Trimethylbenzene
Concen: 153.274 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 838584

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.0

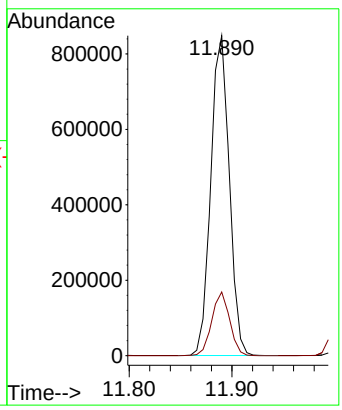




#85
sec-Butylbenzene
Concen: 152.806 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 106110

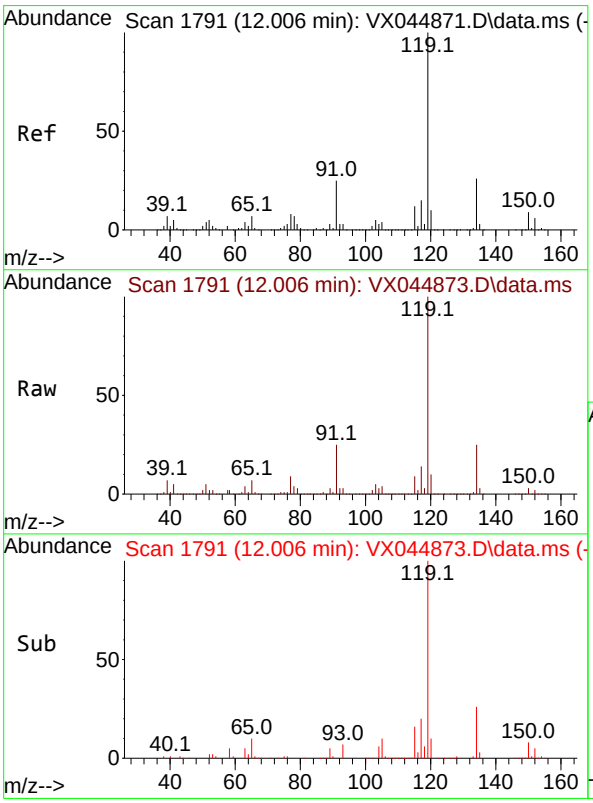
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

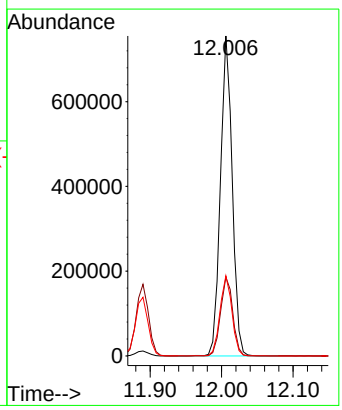
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

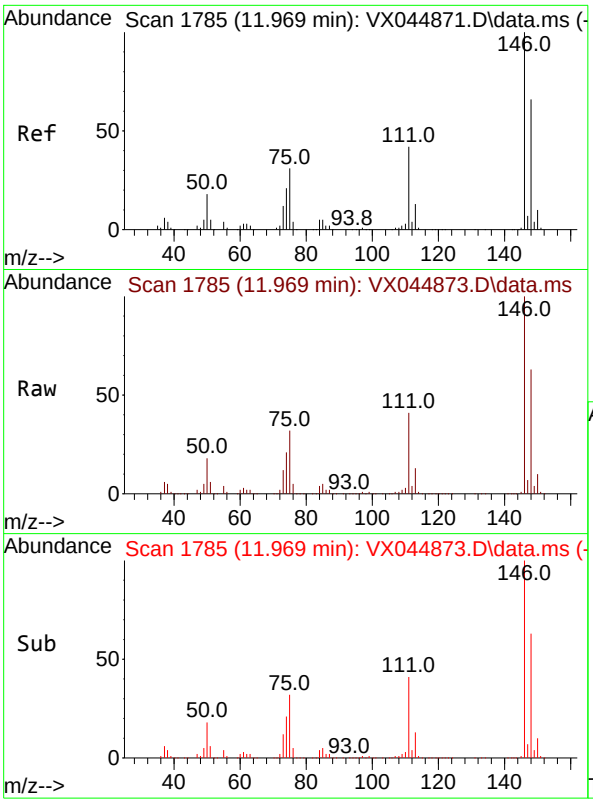


#86
p-Isopropyltoluene
Concen: 154.987 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:119 Resp: 865491

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	38.9
91	25.3	12.1	36.3

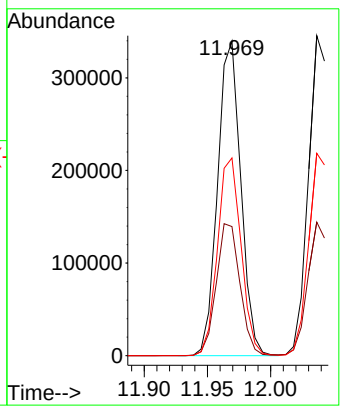




#87
1,3-Dichlorobenzene
Concen: 152.175 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:146 Resp: 43338

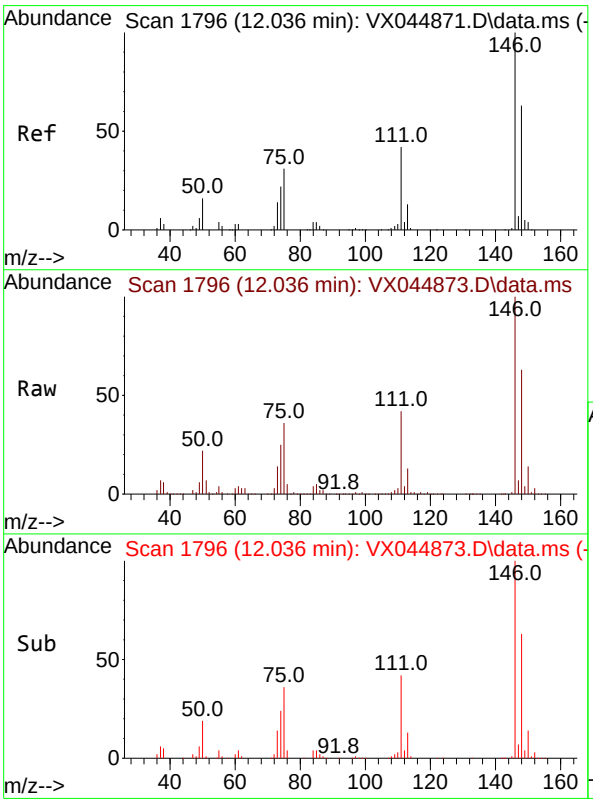
Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.2	63.6
148	63.9	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

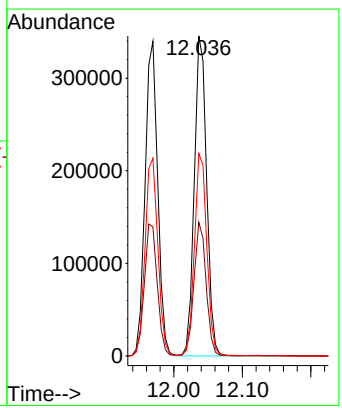
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

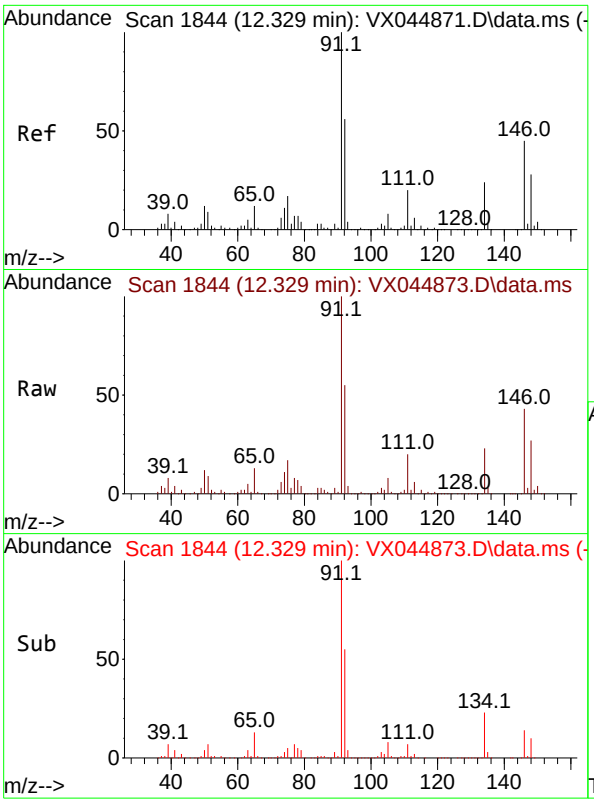


#88
1,4-Dichlorobenzene
Concen: 150.362 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:146 Resp: 432987

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.3
148	63.7	32.0	96.0

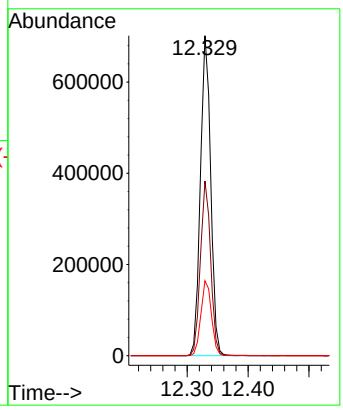




#89
n-Butylbenzene
Concen: 167.469 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 82735

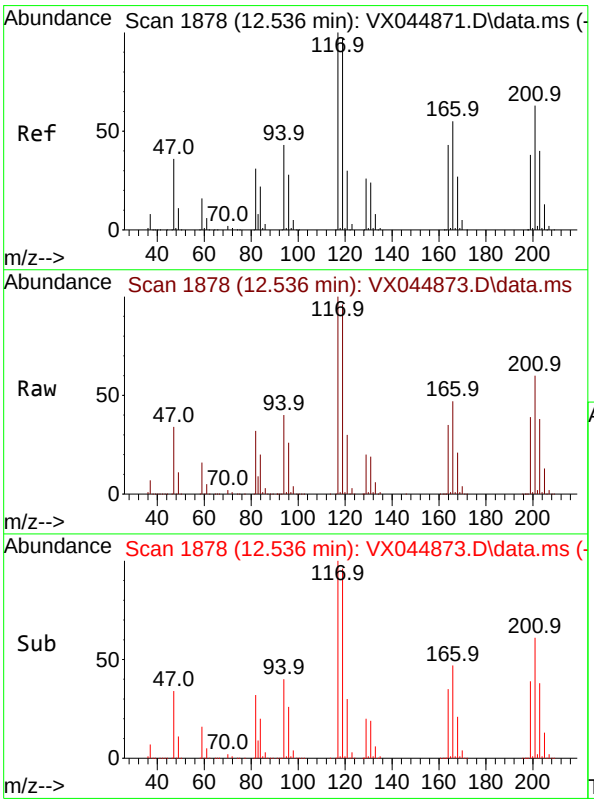
Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.0	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

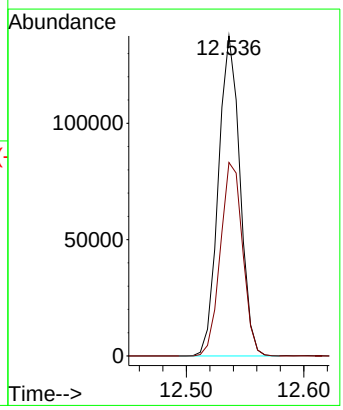
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

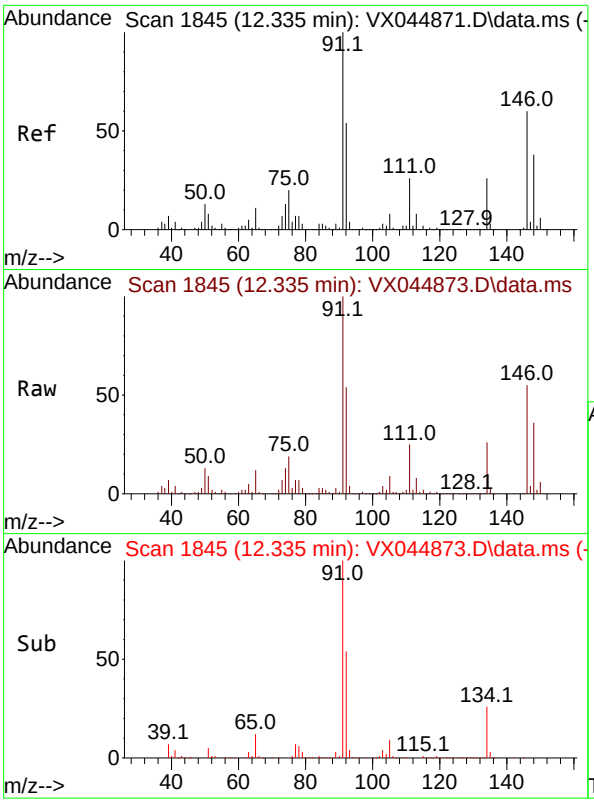


#90
Hexachloroethane
Concen: 167.760 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 175414

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.5	97.5

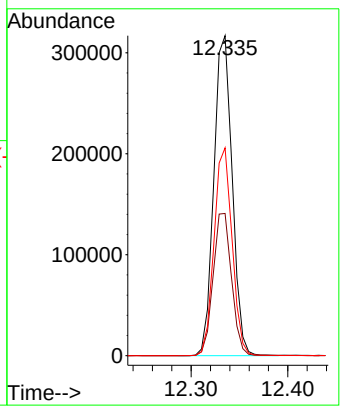




#91
1,2-Dichlorobenzene
Concen: 149.042 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:146 Resp: 41716

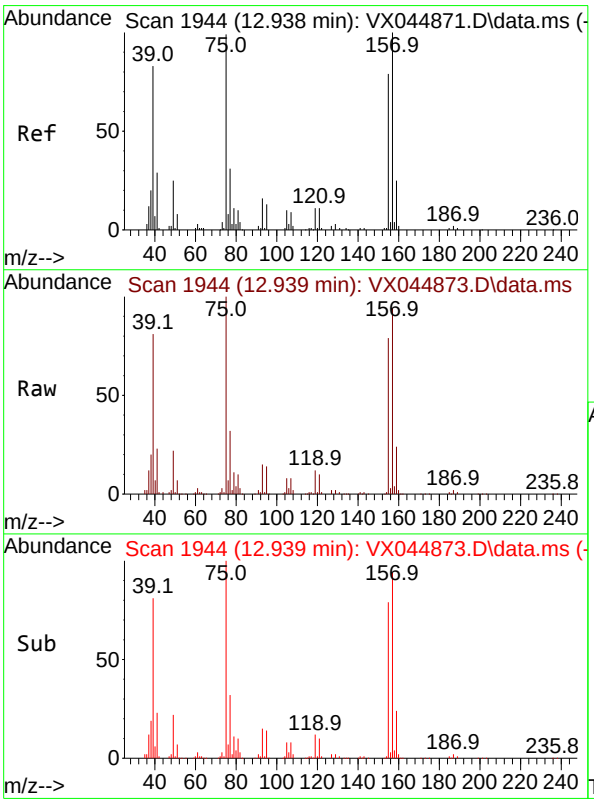
Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.8	65.4
148	64.1	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

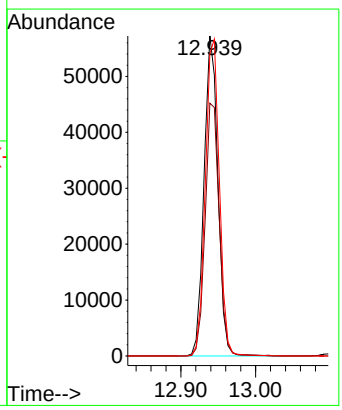
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

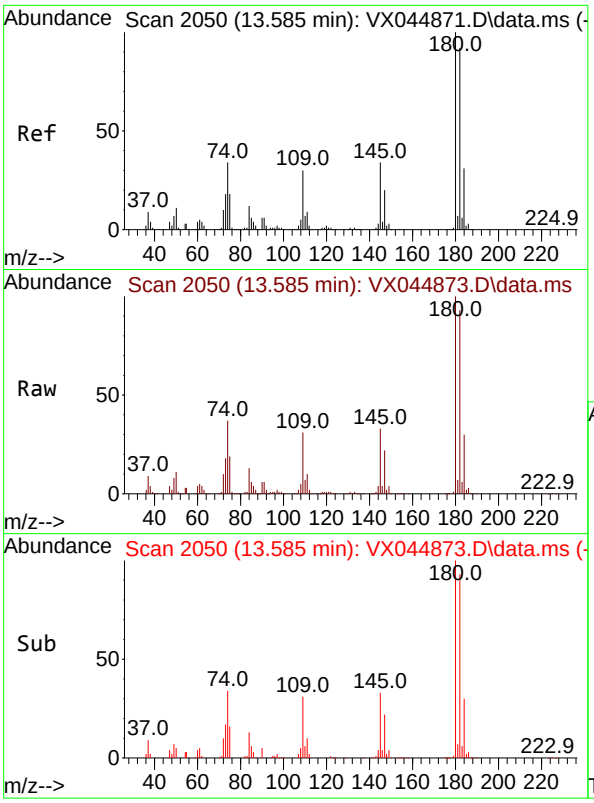


#92
1,2-Dibromo-3-Chloropropane
Concen: 171.783 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 73593

Ion	Ratio	Lower	Upper
75	100		
155	80.1	40.5	121.4
157	100.5	51.4	154.3

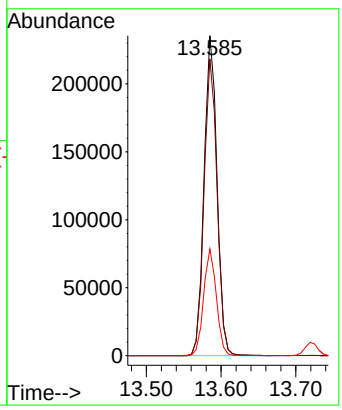




#93
1,2,4-Trichlorobenzene
Concen: 167.095 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:180 Resp: 28300

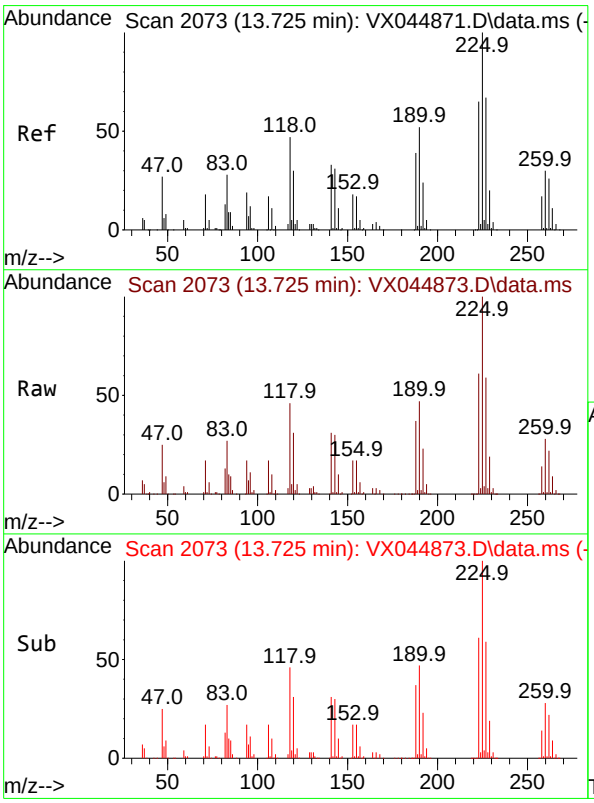
Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.6	142.8
145	32.8	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

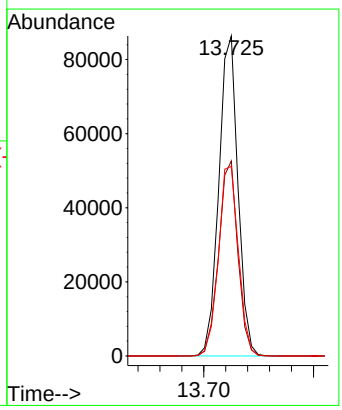
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

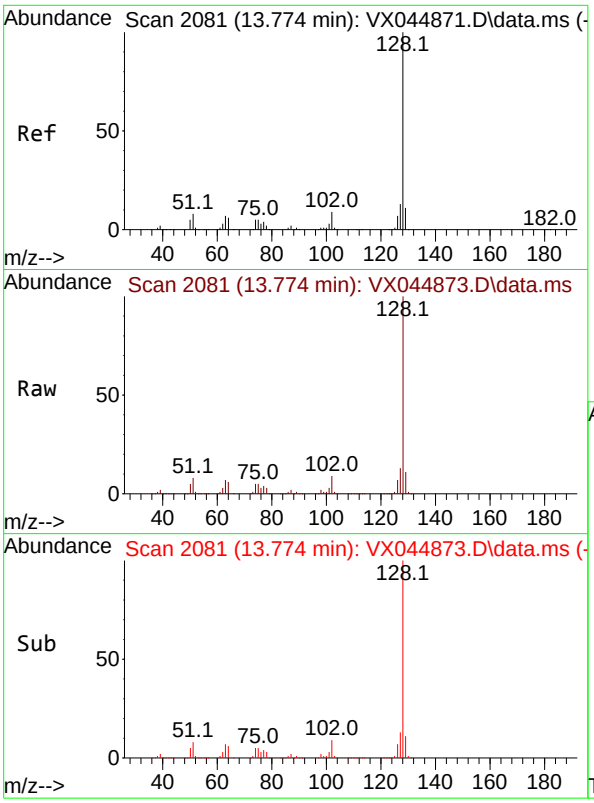


#94
Hexachlorobutadiene
Concen: 155.682 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:225 Resp: 104674

Ion	Ratio	Lower	Upper
225	100		
223	60.9	31.4	94.2
227	61.9	32.3	96.8

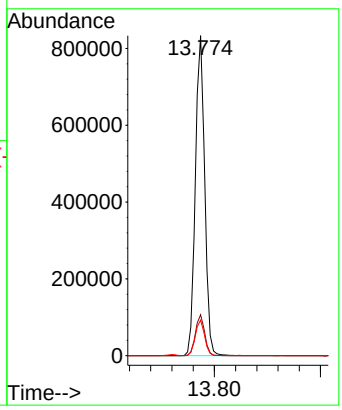




#95
Naphthalene
Concen: 165.916 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:128 Resp: 101580

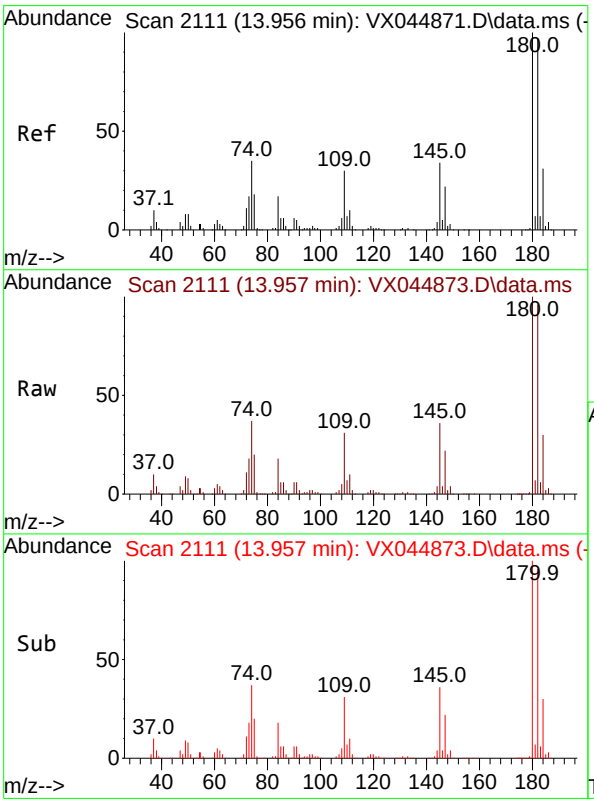
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	11.0	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

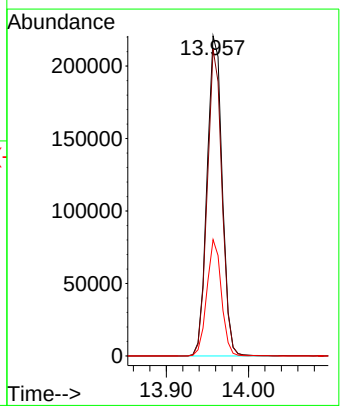
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 165.408 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:180 Resp: 282289

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.9	143.6
145	34.9	17.1	51.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	135936	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	245098	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213248	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95635	48.061	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.120%			
35) Dibromofluoromethane	5.379	113	78360	49.173	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.340%			
50) Toluene-d8	8.647	98	299178	49.649	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.300%			
62) 4-Bromofluorobenzene	11.079	95	105201	51.786	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	93752	49.173	ug/l	99
3) Chloromethane	1.300	50	110431	47.590	ug/l	98
4) Vinyl Chloride	1.374	62	105730	47.033	ug/l	100
5) Bromomethane	1.593	94	31428	46.719	ug/l	97
6) Chloroethane	1.660	64	37913	42.198	ug/l	99
7) Trichlorofluoromethane	1.867	101	138044	48.558	ug/l	97
8) Diethyl Ether	2.130	74	49018	47.544	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	86892	50.588	ug/l	98
10) Methyl Iodide	2.447	142	111488	50.082	ug/l	100
11) Tert butyl alcohol	2.983	59	92949	251.791	ug/l	100
12) 1,1-Dichloroethene	2.306	96	83987	47.935	ug/l	95
13) Acrolein	2.233	56	91744	240.879	ug/l	98
14) Allyl chloride	2.654	41	155084	48.976	ug/l	99
15) Acrylonitrile	3.062	53	247921	251.537	ug/l	99
16) Acetone	2.379	43	205743	257.198	ug/l	98
17) Carbon Disulfide	2.501	76	237694	49.472	ug/l	100
18) Methyl Acetate	2.703	43	126015	49.920	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	275685	49.453	ug/l	99
20) Methylene Chloride	2.782	84	94006	47.978	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	84720	49.129	ug/l	98
22) Diisopropyl ether	3.757	45	300357	50.138	ug/l	98
23) Vinyl Acetate	3.715	43	1257431	257.465	ug/l	100
24) 1,1-Dichloroethane	3.599	63	165351	49.329	ug/l	99
25) 2-Butanone	4.556	43	335358	258.175	ug/l	97
26) 2,2-Dichloropropane	4.464	77	133670	50.285	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	102518	49.493	ug/l	99
28) Bromochloromethane	4.891	49	72893	45.250	ug/l	99
29) Tetrahydrofuran	5.001	42	218496	253.318	ug/l	100
30) Chloroform	5.086	83	157312	48.393	ug/l	98
31) Cyclohexane	5.458	56	152073	49.211	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	134626	48.825	ug/l	100
36) 1,1-Dichloropropene	5.684	75	111968	48.702	ug/l	99
37) Ethyl Acetate	4.708	43	126071	49.300	ug/l	99
38) Carbon Tetrachloride	5.672	117	110581	49.083	ug/l	97
39) Methylcyclohexane	7.372	83	158289	53.254	ug/l	98
40) Benzene	6.031	78	358365	49.919	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	73559	53.741	ug/l		99
42) 1,2-Dichloroethane	6.080	62	115339	50.410	ug/l		100
43) Isopropyl Acetate	6.336	43	213901	51.798	ug/l		100
44) Trichloroethene	7.116	130	81911	49.917	ug/l		99
45) 1,2-Dichloropropane	7.427	63	89992	50.387	ug/l		98
46) Dibromomethane	7.580	93	61360	49.540	ug/l		99
47) Bromodichloromethane	7.818	83	122265	50.980	ug/l		99
48) Methyl methacrylate	7.690	41	102900	52.848	ug/l		99
49) 1,4-Dioxane	7.659	88	42658	1021.138	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	665564	265.112	ug/l		100
52) Toluene	8.714	92	216682	50.680	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	130405	53.731	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	143379	52.986	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	83510	50.811	ug/l		100
56) Ethyl methacrylate	9.116	69	143524	54.068	ug/l		99
57) 1,3-Dichloropropane	9.305	76	146236	50.852	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	370622	284.352	ug/l		99
59) 2-Hexanone	9.427	43	488298	269.951	ug/l		99
60) Dibromochloromethane	9.518	129	90826	51.673	ug/l		99
61) 1,2-Dibromoethane	9.604	107	85683	51.436	ug/l		100
64) Tetrachloroethene	9.268	164	66468	49.424	ug/l		98
65) Chlorobenzene	10.079	112	233373	50.952	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	75488	51.205	ug/l		98
67) Ethyl Benzene	10.189	91	415575	51.415	ug/l		99
68) m/p-Xylenes	10.299	106	310925	104.282	ug/l		100
69) o-Xylene	10.640	106	151995	50.804	ug/l		100
70) Styrene	10.652	104	257972	53.521	ug/l		100
71) Bromoform	10.799	173	59409	53.997	ug/l	#	100
73) Isopropylbenzene	10.957	105	390246	49.921	ug/l		100
74) N-amyl acetate	10.841	43	186145	52.621	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	129829	48.331	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	106893m	49.659	ug/l		
77) Bromobenzene	11.195	156	88129	49.725	ug/l		100
78) n-propylbenzene	11.299	91	463655	51.386	ug/l		99
79) 2-Chlorotoluene	11.360	91	272091	49.065	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	323251	50.956	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	44070	52.665	ug/l		99
82) 4-Chlorotoluene	11.451	91	312112	50.872	ug/l		100
83) tert-Butylbenzene	11.713	119	321772	50.139	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	323035	51.593	ug/l		100
85) sec-Butylbenzene	11.890	105	410197	51.617	ug/l		100
86) p-Isopropyltoluene	12.006	119	336027	52.581	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	164508	50.475	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	163203	49.526	ug/l		100
89) n-Butylbenzene	12.329	91	311764	55.142	ug/l		100
90) Hexachloroethane	12.536	117	61016	50.990	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	161590	50.447	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	25339	51.684	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	102197	52.726	ug/l		99
94) Hexachlorobutadiene	13.719	225	38998	50.683	ug/l		98
95) Naphthalene	13.774	128	371576	53.033	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	100730	51.575	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

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

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

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

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

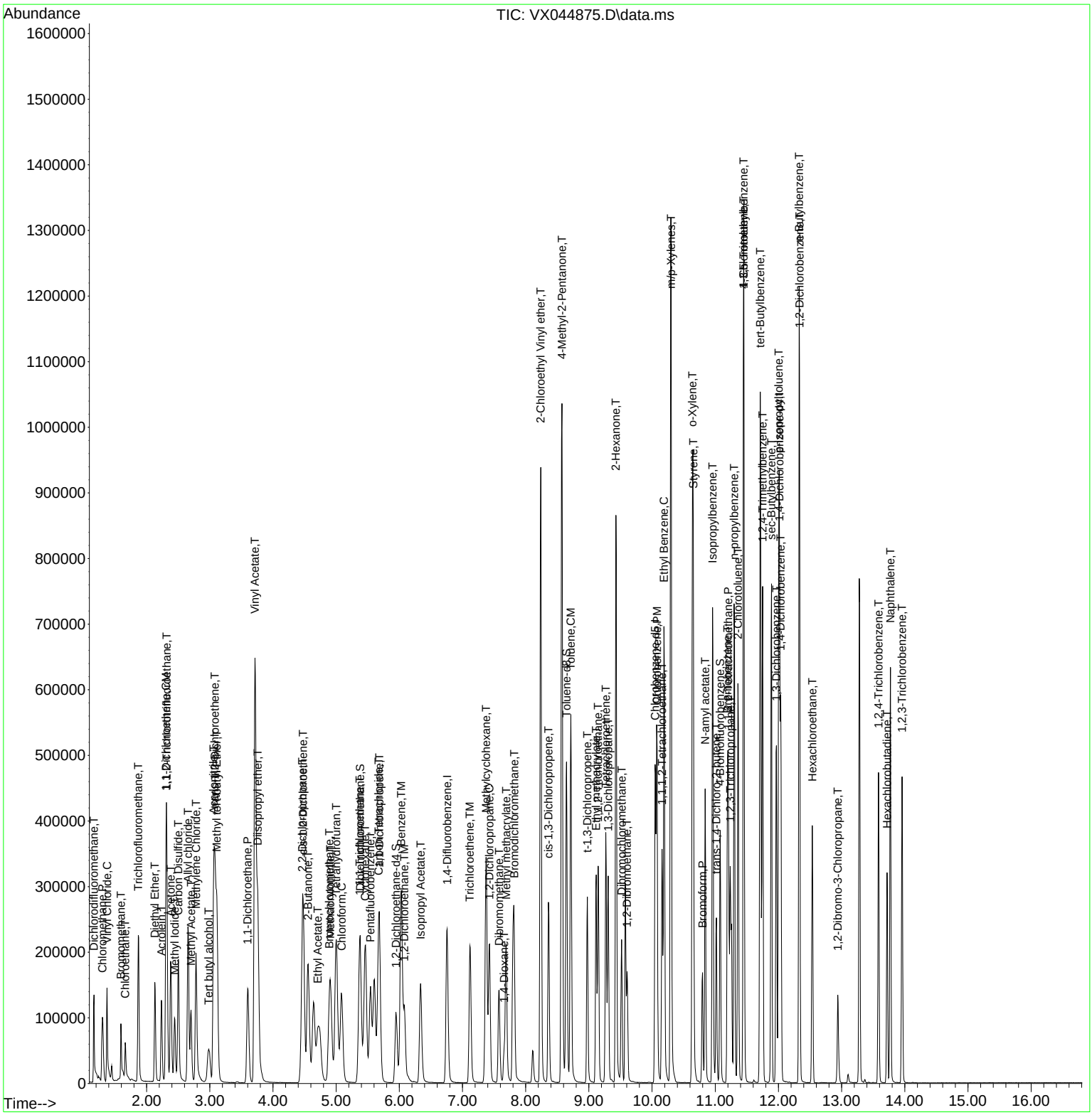
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

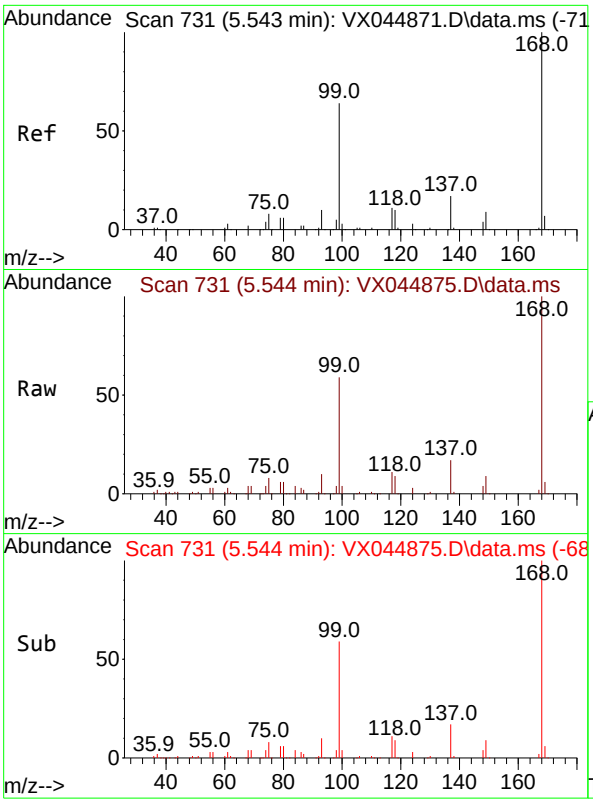
Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

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

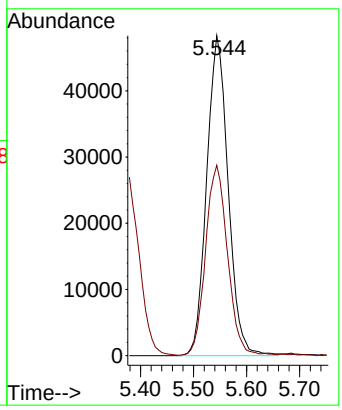




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:168 Resp: 13593

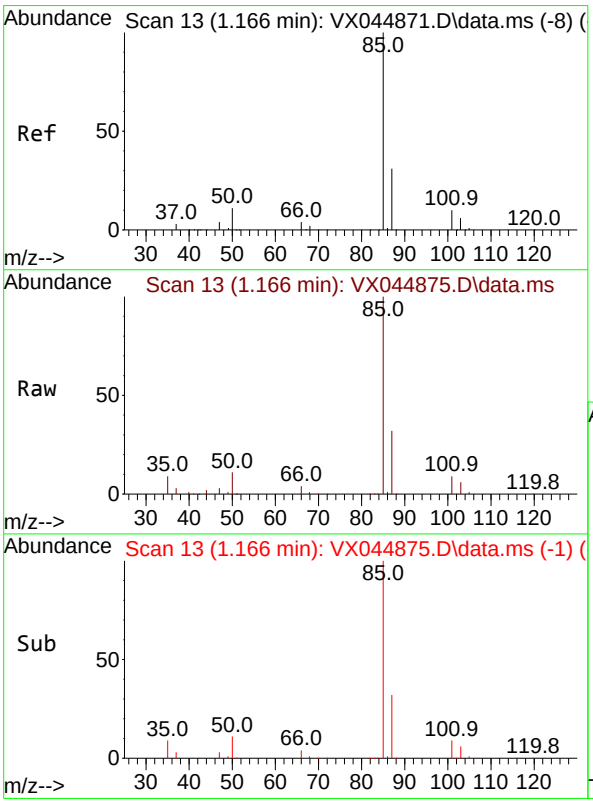
Ion	Ratio	Lower	Upper
168	100		
99	59.3	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

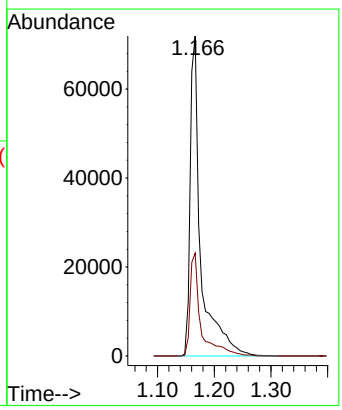
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

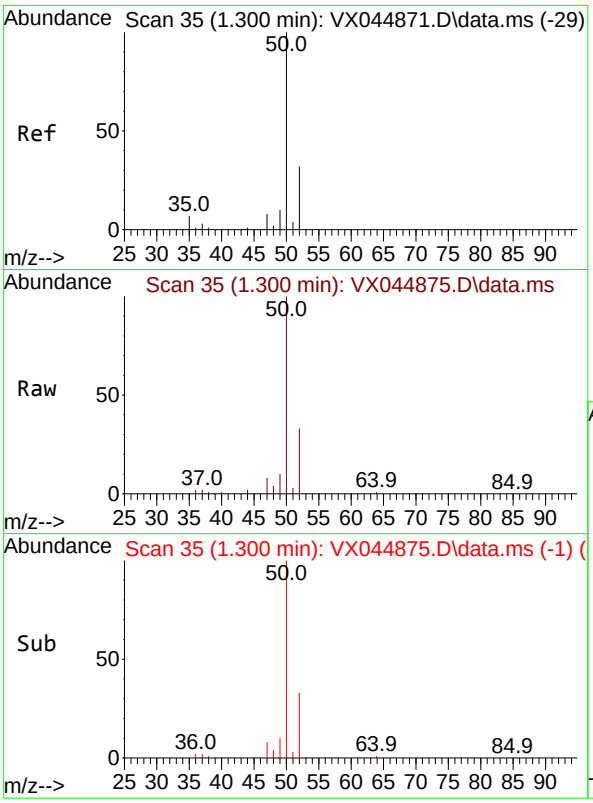


#2
Dichlorodifluoromethane
Concen: 49.173 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 85 Resp: 93752

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.8	47.3

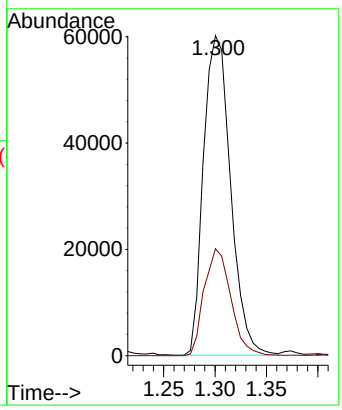




#3
Chloromethane
Concen: 47.590 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 50 Resp: 11043

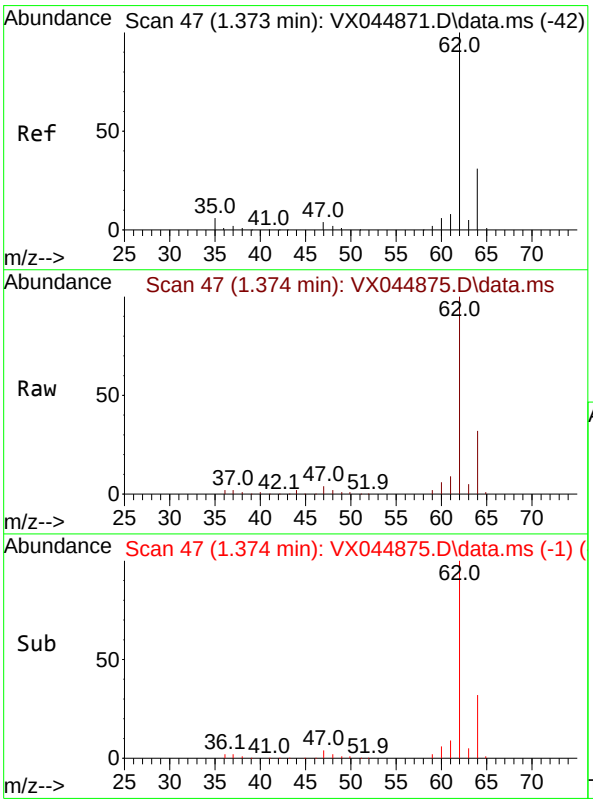
Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

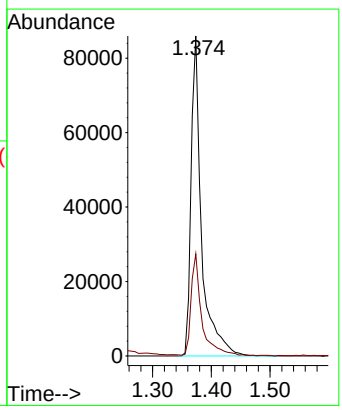
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

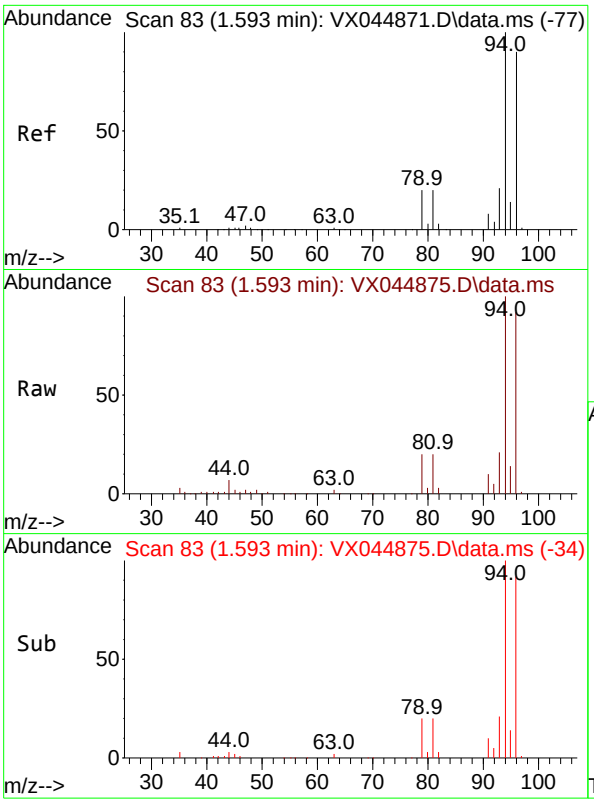


#4
Vinyl Chloride
Concen: 47.033 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 105730

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0

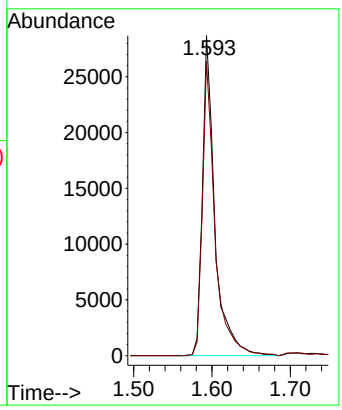




#5
Bromomethane
Concen: 46.719 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 94 Resp: 3142

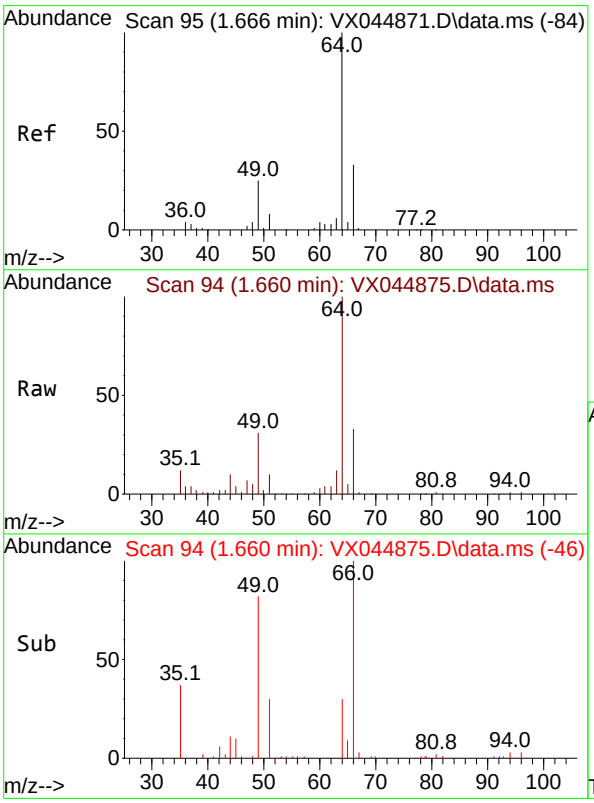
Ion	Ratio	Lower	Upper
94	100		
96	92.0	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

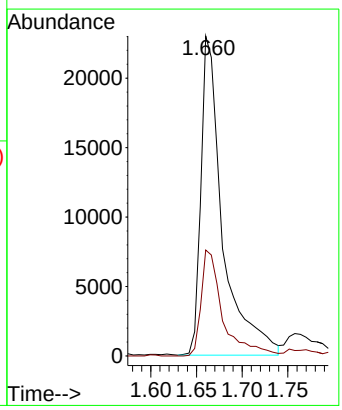
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

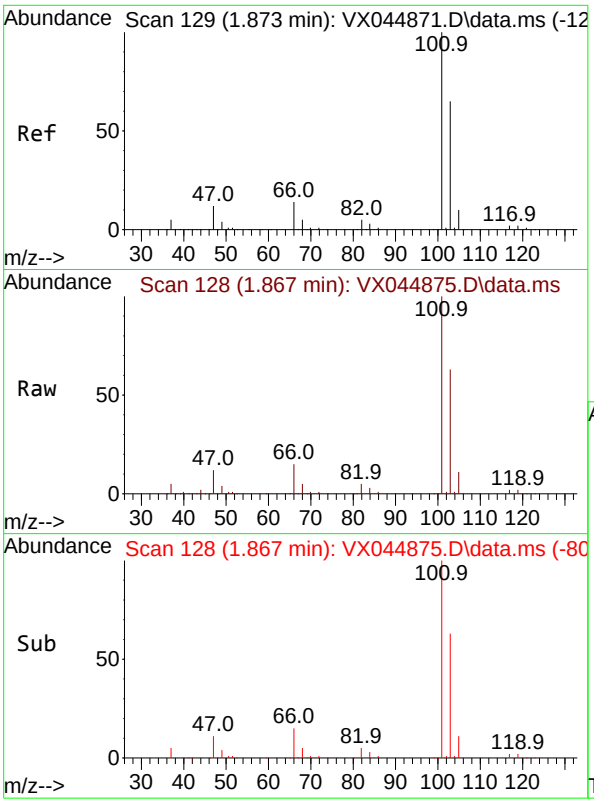


#6
Chloroethane
Concen: 42.198 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 64 Resp: 37913

Ion	Ratio	Lower	Upper
64	100		
66	33.2	25.9	38.9

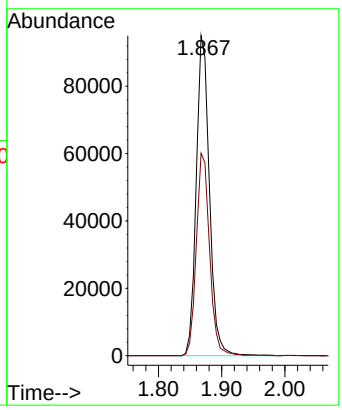




#7
Trichlorofluoromethane
Concen: 48.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:101 Resp: 13804

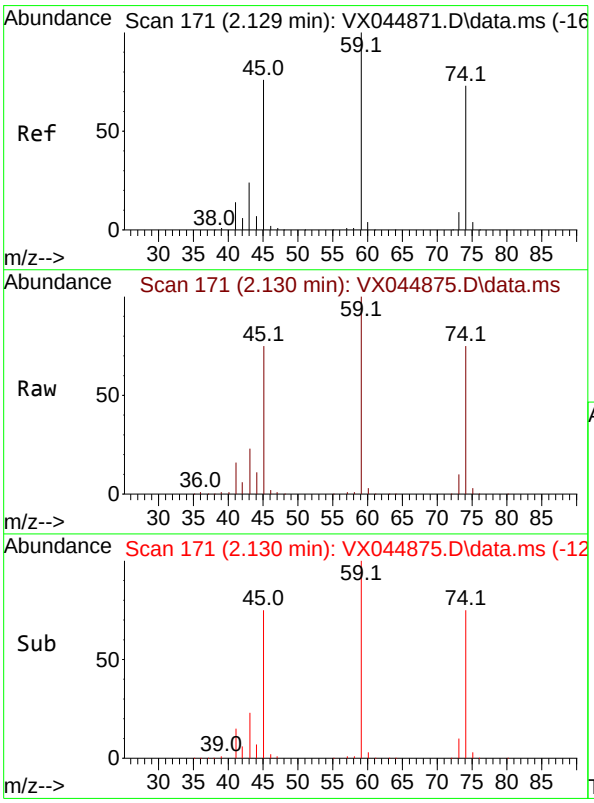
Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

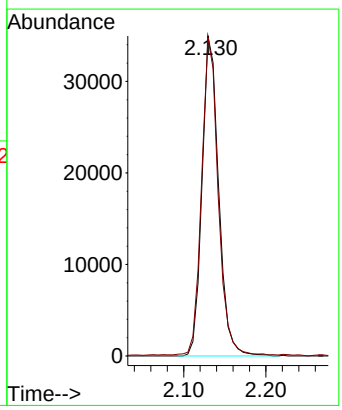
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

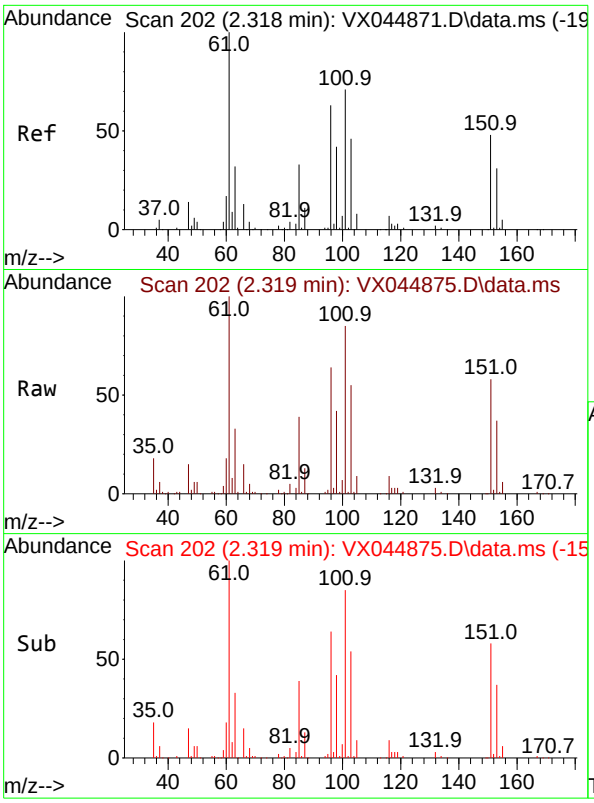


#8
Diethyl Ether
Concen: 47.544 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 74 Resp: 49018

Ion	Ratio	Lower	Upper
74	100		
45	98.9	51.1	153.4

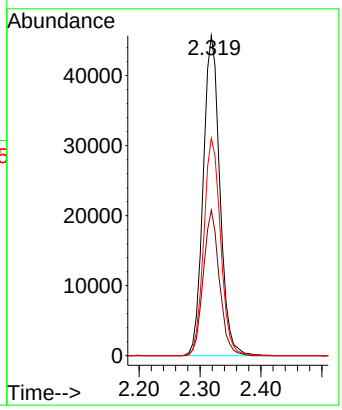




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.588 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:101 Resp: 8689

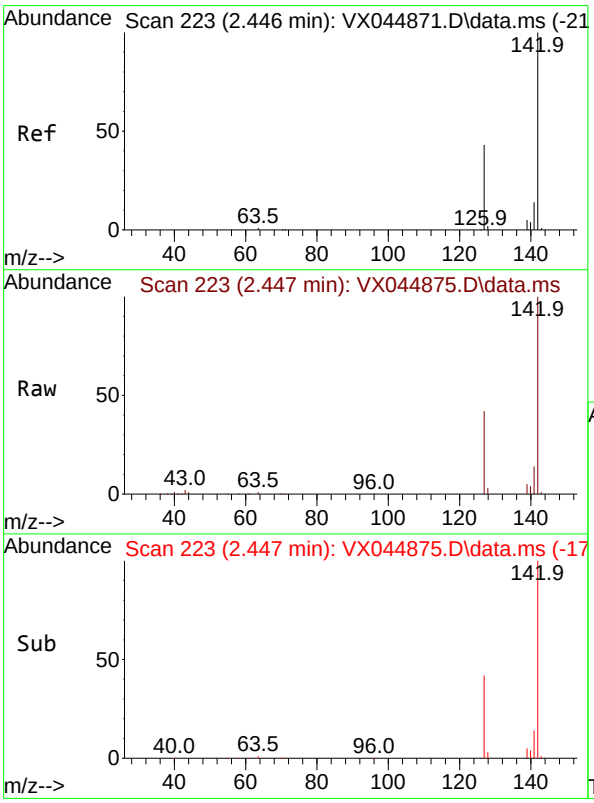
Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.7	53.5
151	68.4	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

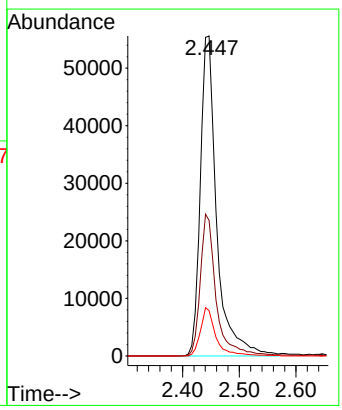
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

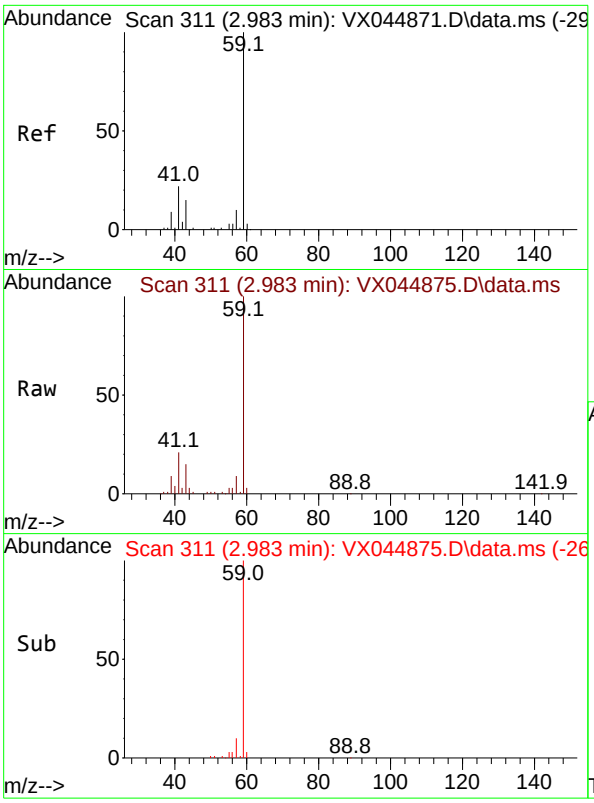


#10
Methyl Iodide
Concen: 50.082 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:142 Resp: 111488

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.3	11.4	17.2

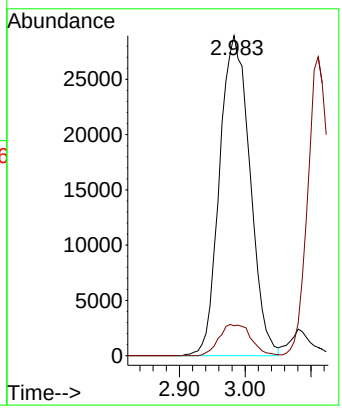




#11
Tert butyl alcohol
Concen: 251.791 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 59 Resp: 9294

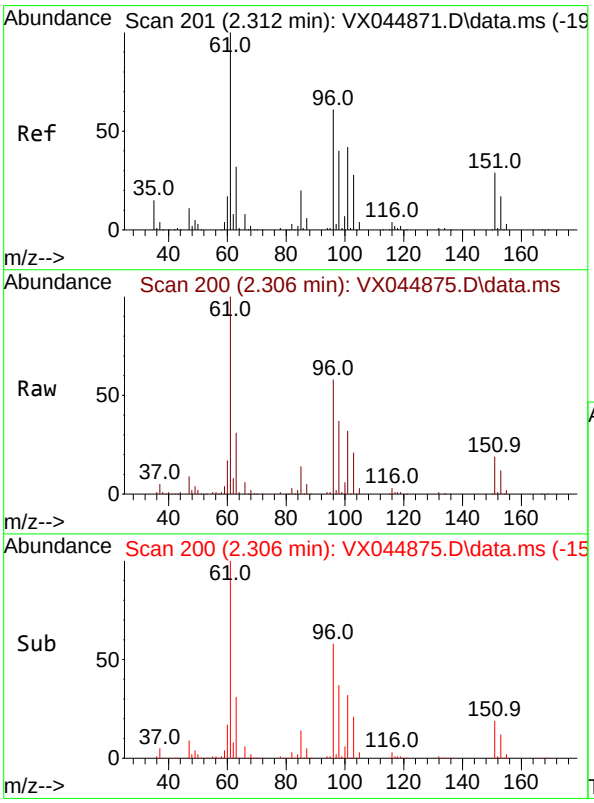
Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

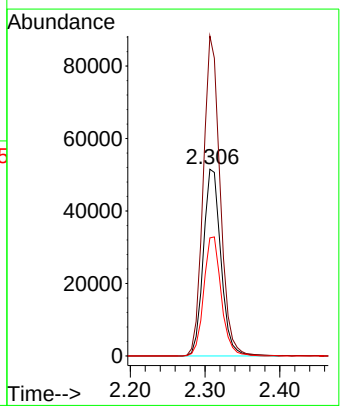
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

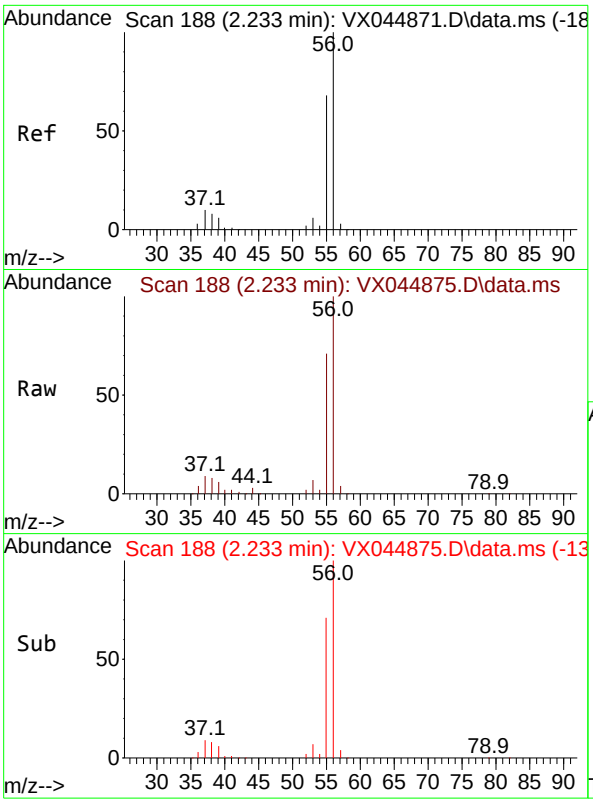


#12
1,1-Dichloroethene
Concen: 47.935 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 96 Resp: 83987

Ion	Ratio	Lower	Upper
96	100		
61	171.4	130.2	195.4
98	63.3	52.2	78.4

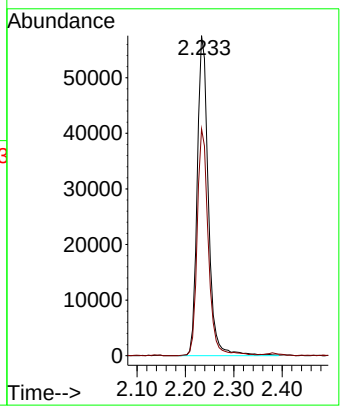




#13
Acrolein
Concen: 240.879 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 56 Resp: 9174

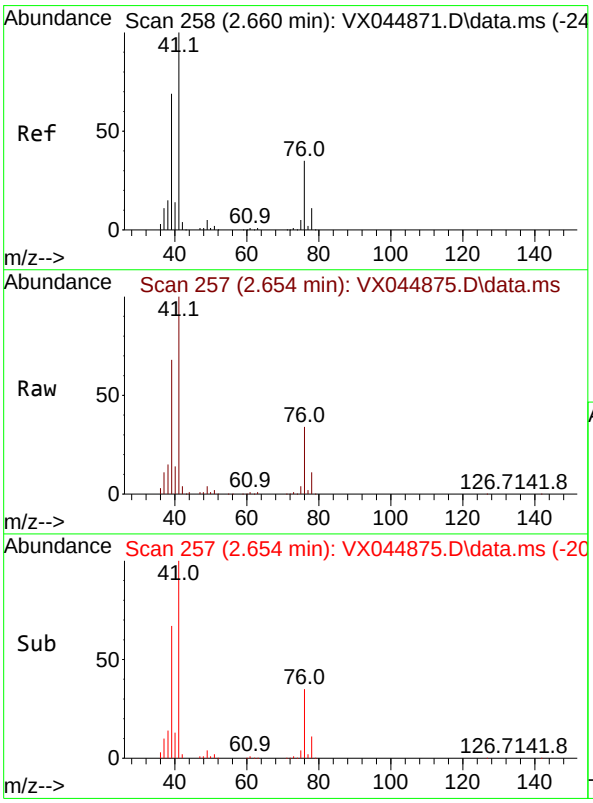
Ion	Ratio	Lower	Upper
56	100		
55	71.0	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

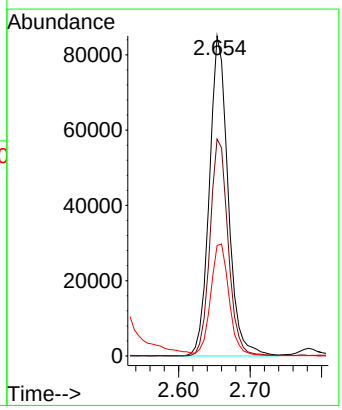
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

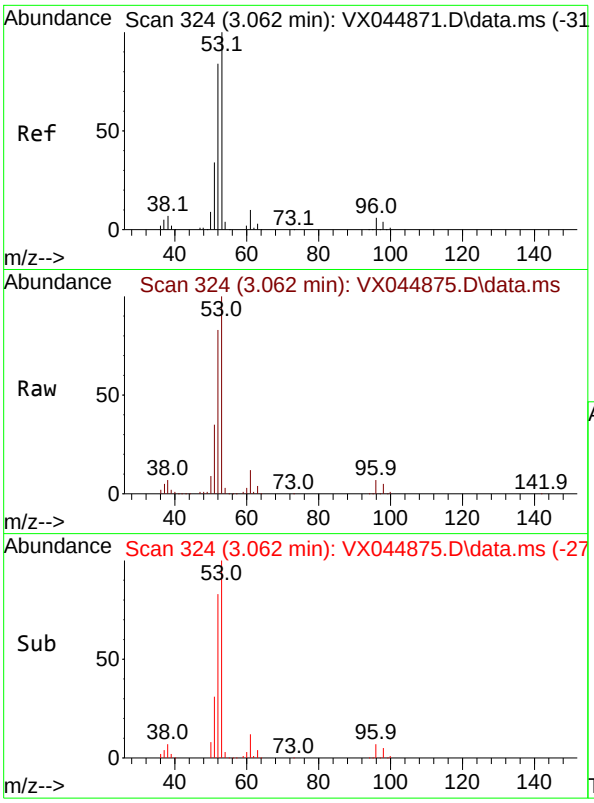


#14
Allyl chloride
Concen: 48.976 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 155084

Ion	Ratio	Lower	Upper
41	100		
39	65.4	51.4	77.2
76	34.2	27.0	40.4





#15
Acrylonitrile
Concen: 251.537 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

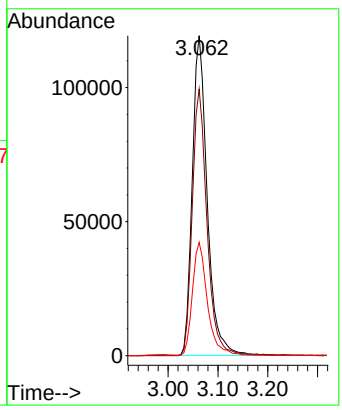
Tgt Ion: 53 Resp: 24792

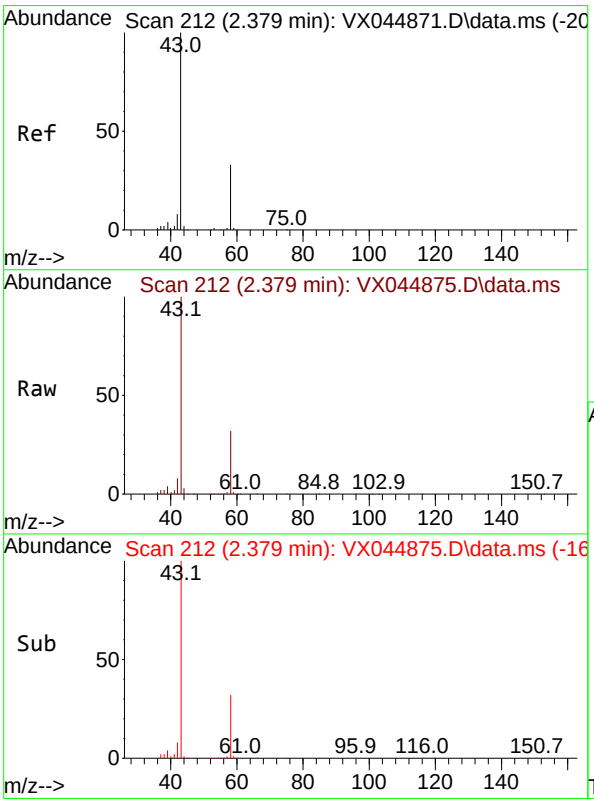
Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.0	97.6
51	35.7	28.0	42.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

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

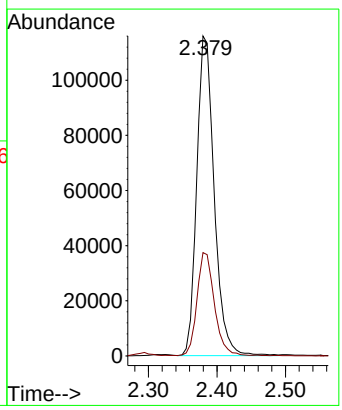


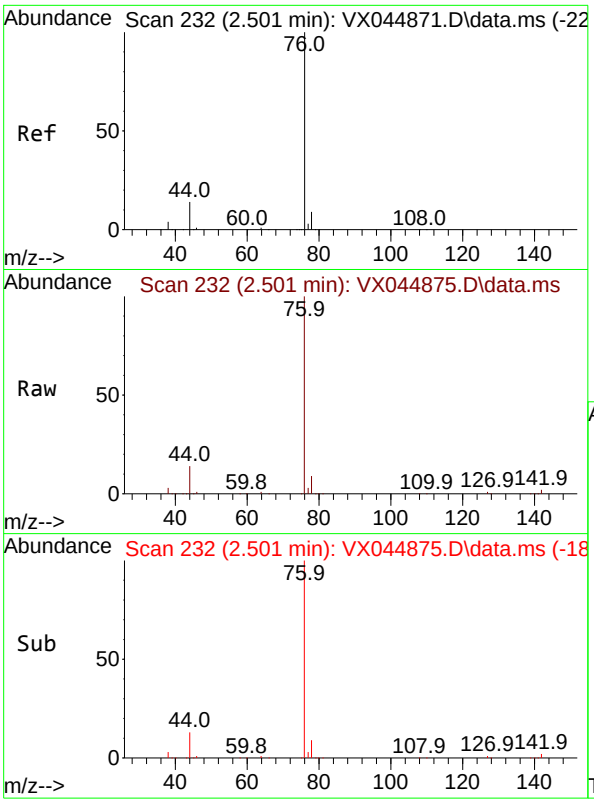


#16
Acetone
Concen: 257.198 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 205743

Ion	Ratio	Lower	Upper
43	100		
58	32.2	26.5	39.7

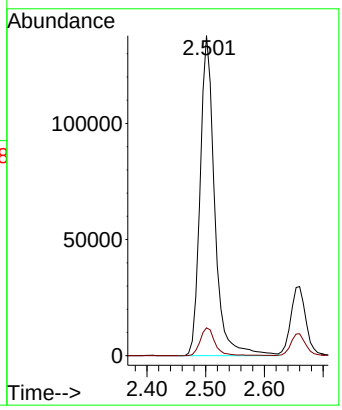




#17
Carbon Disulfide
Concen: 49.472 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 76 Resp: 23769

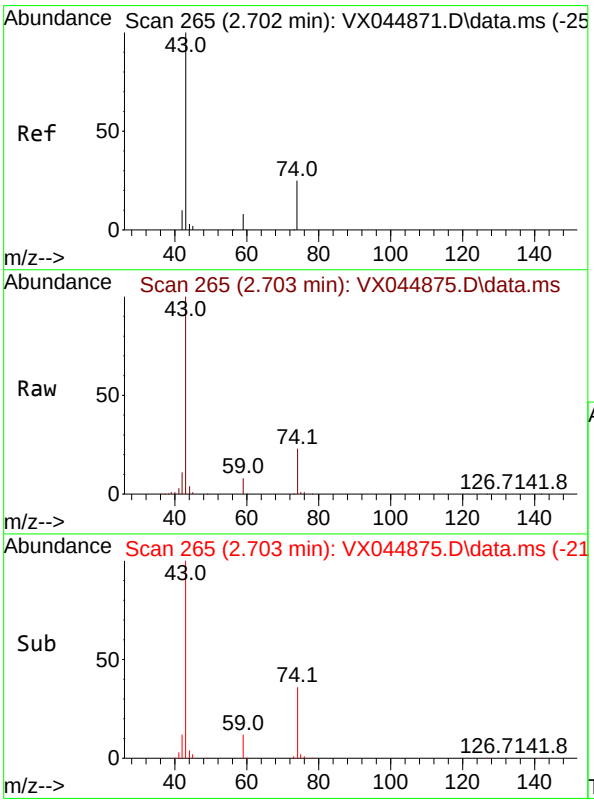
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

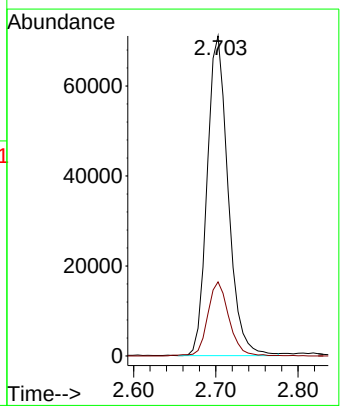
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

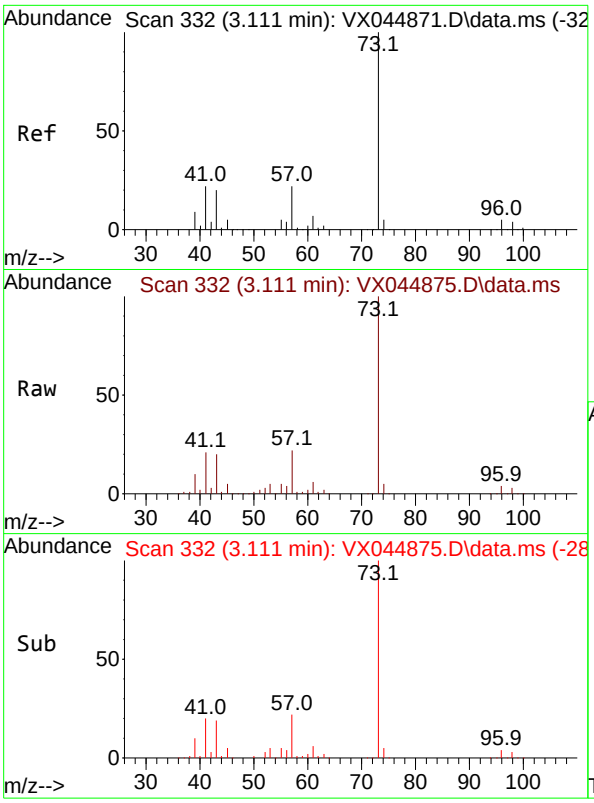


#18
Methyl Acetate
Concen: 49.920 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 126015

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.9	28.3

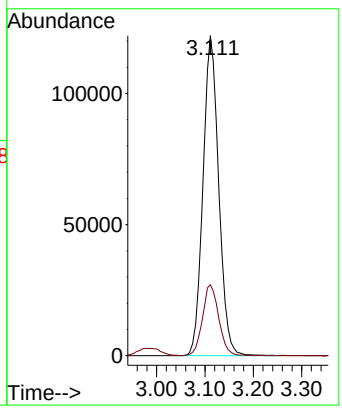




#19
Methyl tert-butyl Ether
Concen: 49.453 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 73 Resp: 27568

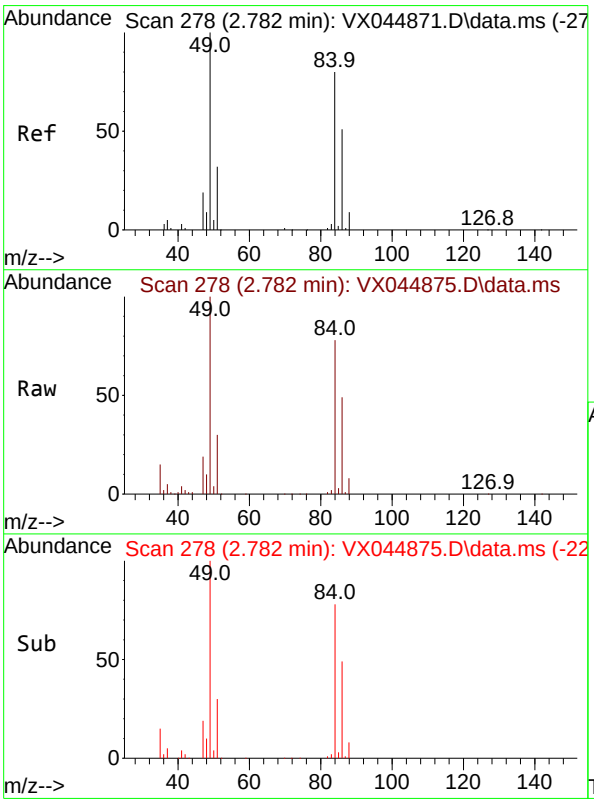
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

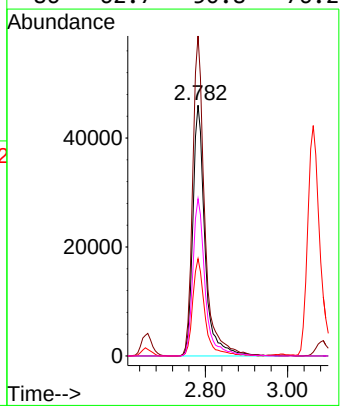
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

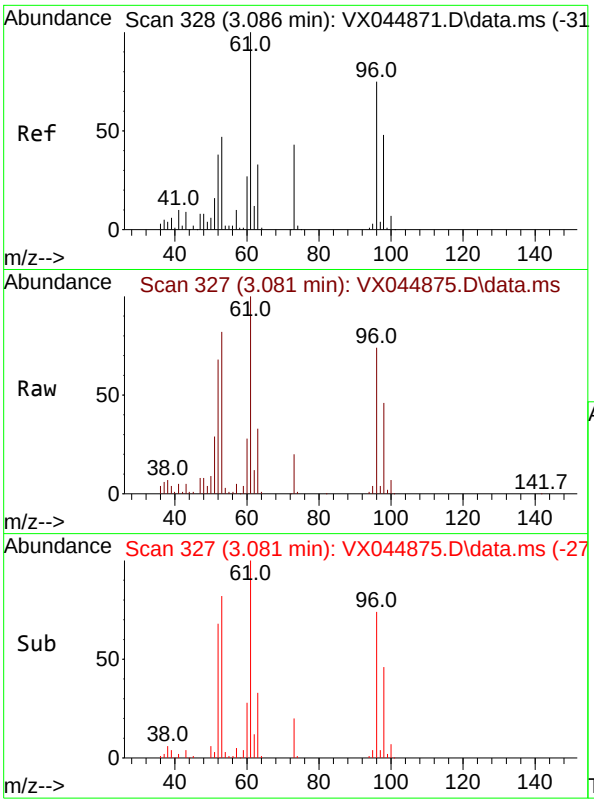


#20
Methylene Chloride
Concen: 47.978 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 84 Resp: 94006

Ion	Ratio	Lower	Upper
84	100		
49	127.6	100.1	150.1
51	38.8	31.7	47.5
86	62.7	50.8	76.2

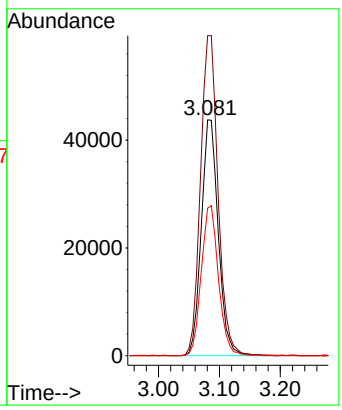




#21
trans-1,2-Dichloroethene
Concen: 49.129 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 96 Resp: 8472

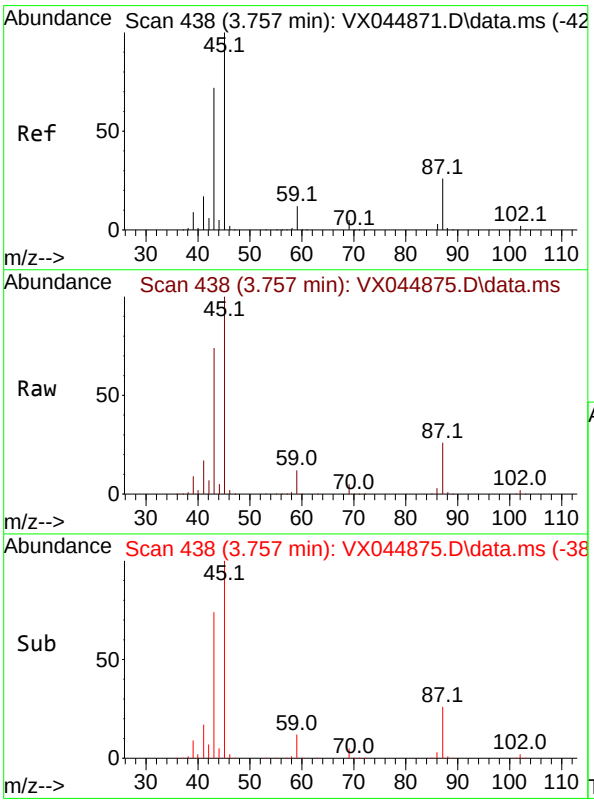
Ion	Ratio	Lower	Upper
96	100		
61	135.7	106.0	159.0
98	62.5	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

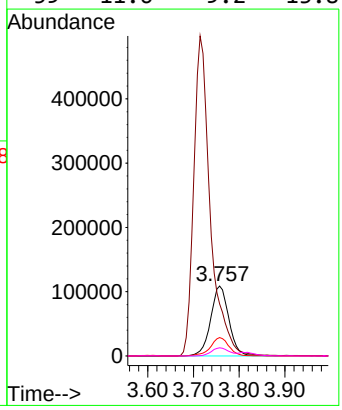
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

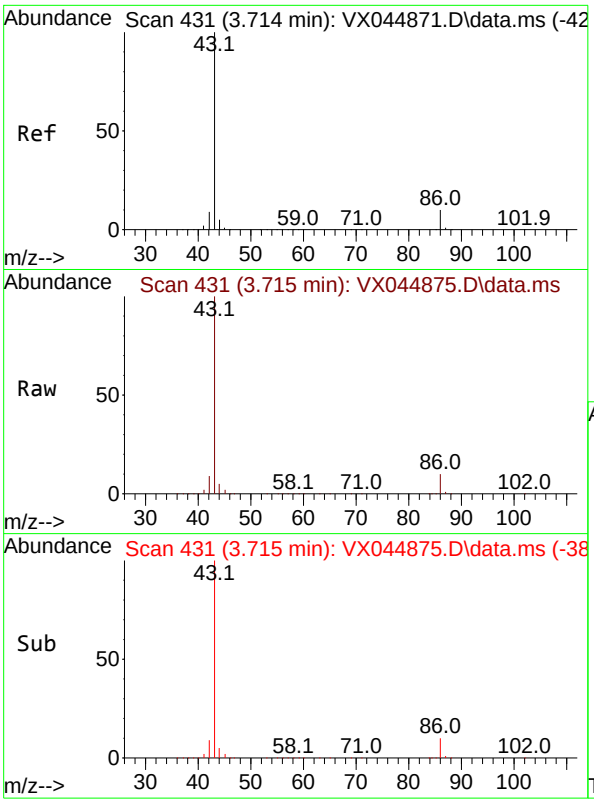


#22
Diisopropyl ether
Concen: 50.138 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 45 Resp: 300357

Ion	Ratio	Lower	Upper
45	100		
43	74.3	58.0	87.0
87	26.4	20.7	31.1
59	11.6	9.2	13.8

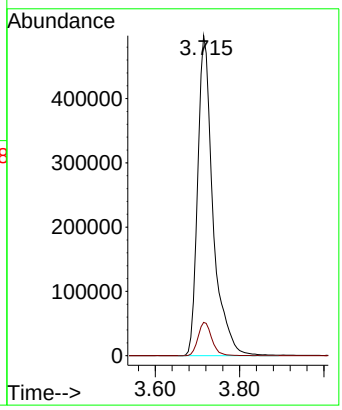




#23
Vinyl Acetate
Concen: 257.465 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 125743

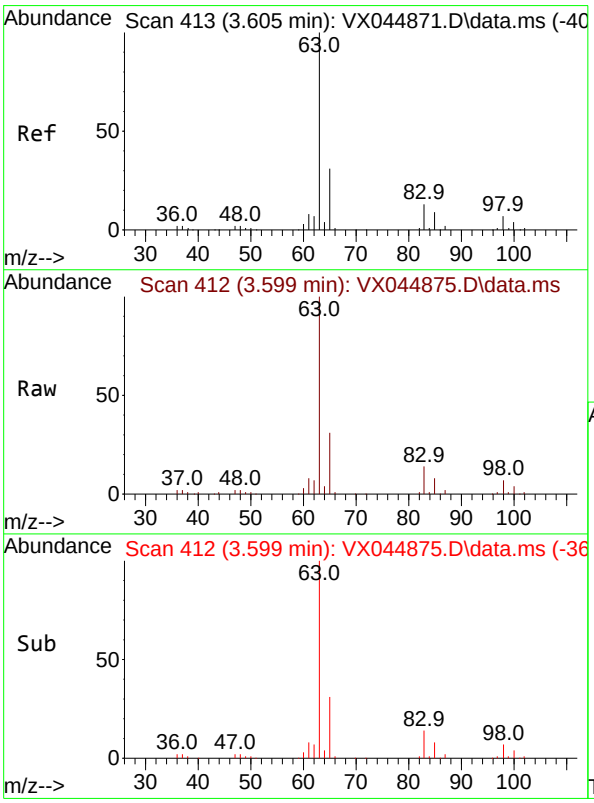
Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

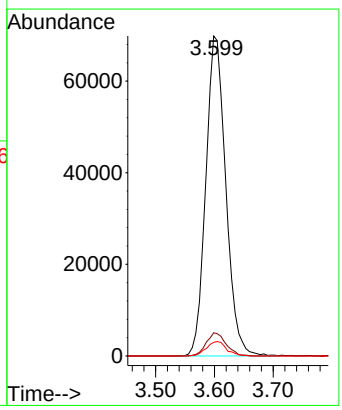
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

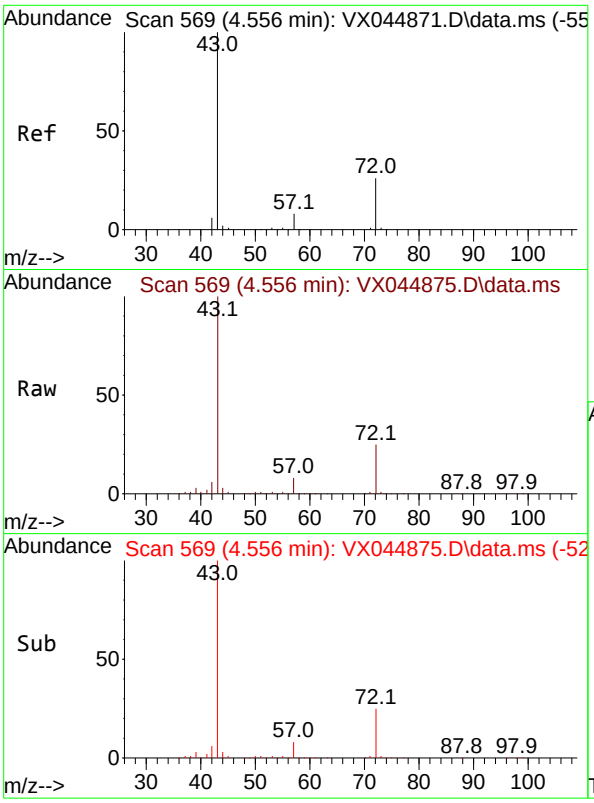


#24
1,1-Dichloroethane
Concen: 49.329 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 165351

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.3	9.9
100	4.2	2.1	6.5

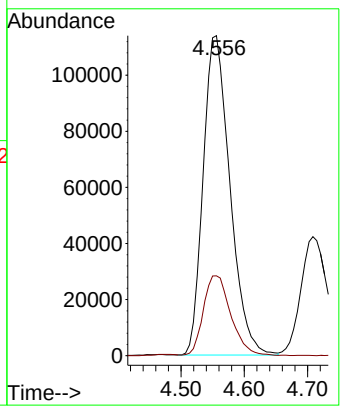




#25
2-Butanone
Concen: 258.175 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 33535

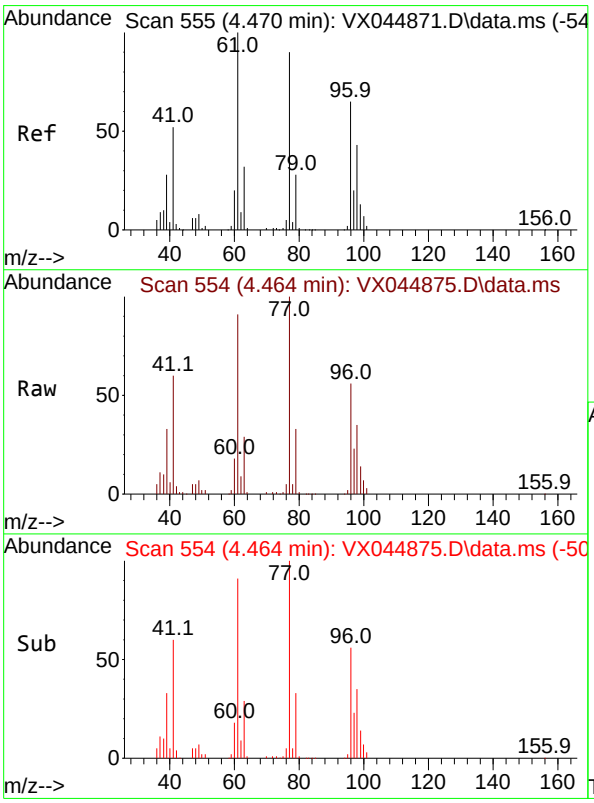
Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

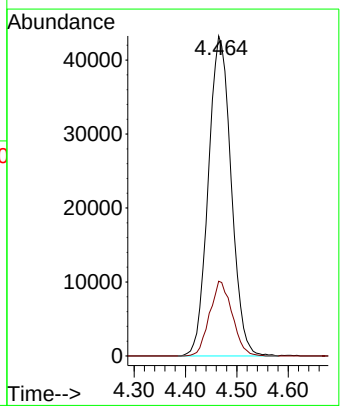
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

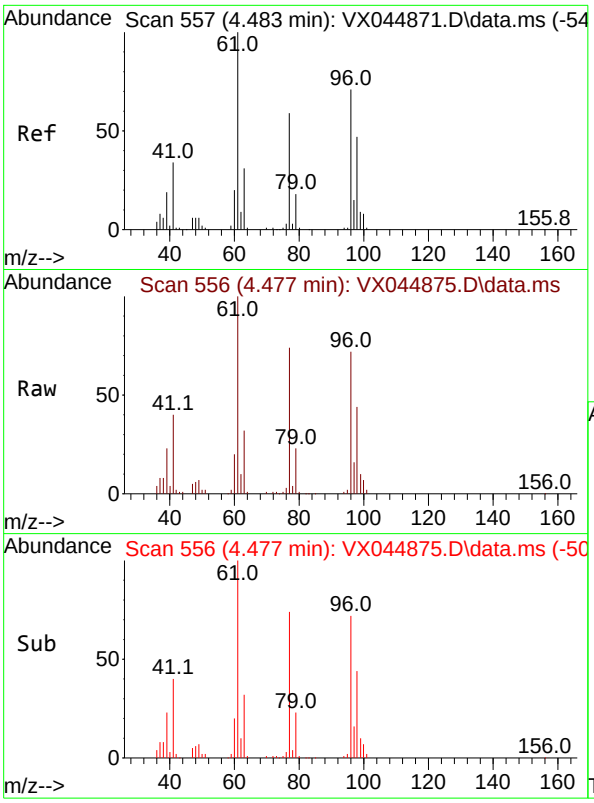


#26
2,2-Dichloropropane
Concen: 50.285 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 77 Resp: 133670

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.8	35.3

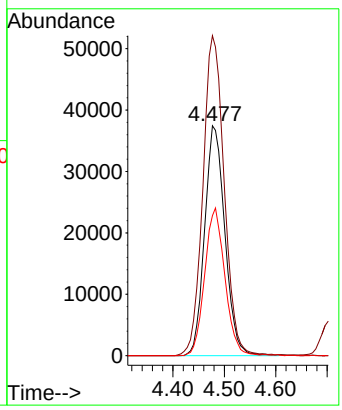




#27
cis-1,2-Dichloroethene
Concen: 49.493 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 96 Resp: 10251

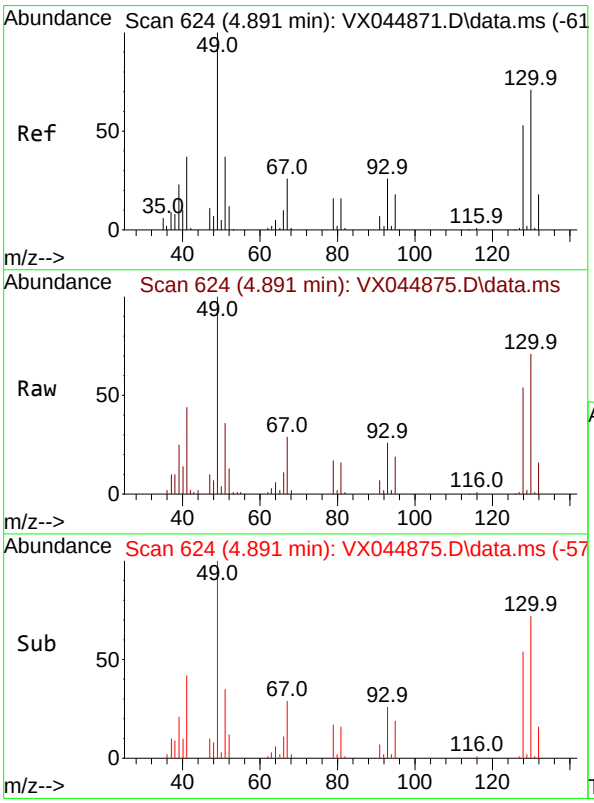
Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	294.0
98	63.9	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

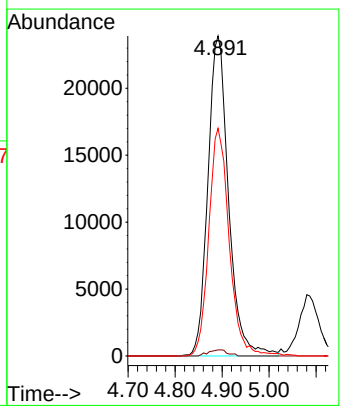
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

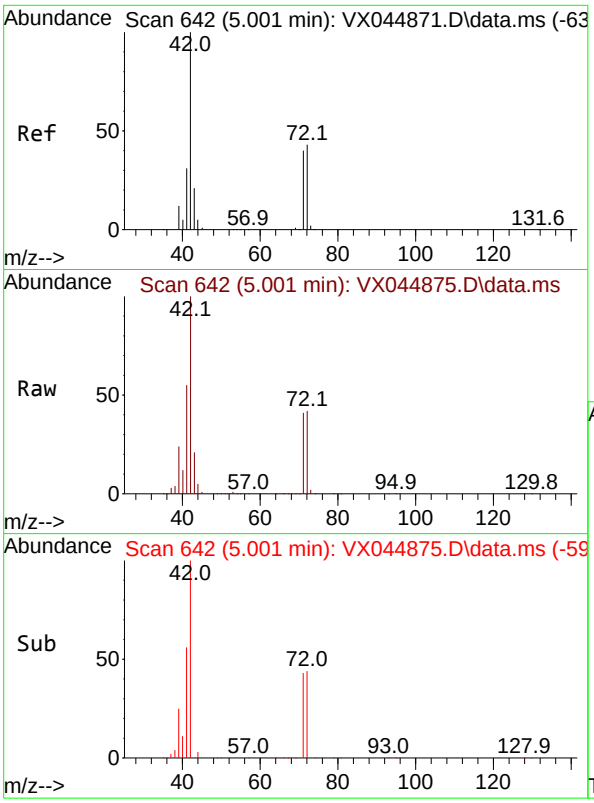


#28
Bromochloromethane
Concen: 45.250 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 49 Resp: 72893

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	70.3	56.7	85.1

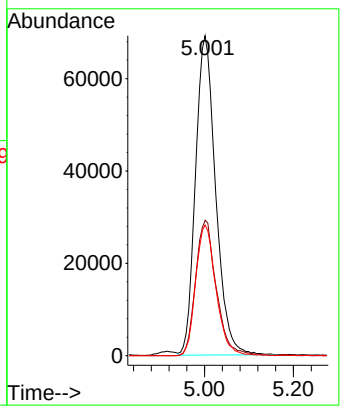




#29
Tetrahydrofuran
Concen: 253.318 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 42 Resp: 21849

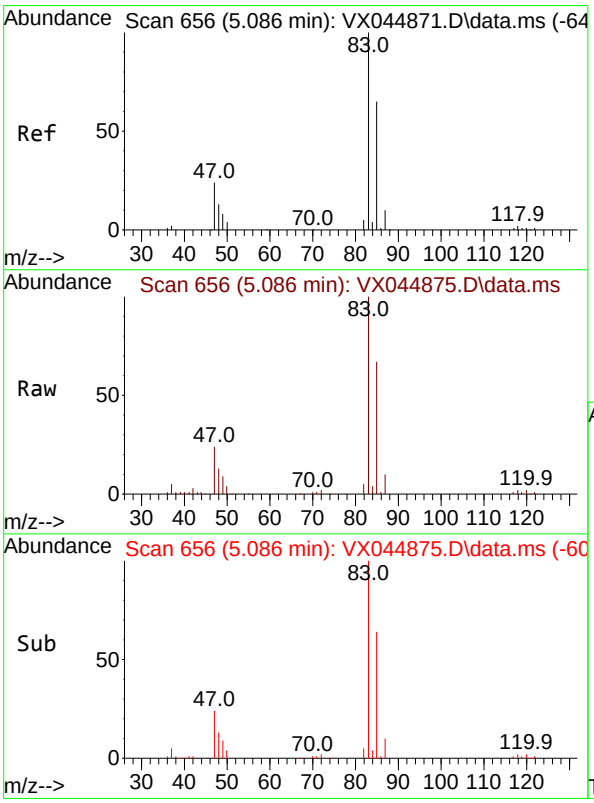
Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.0	52.4
71	41.1	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

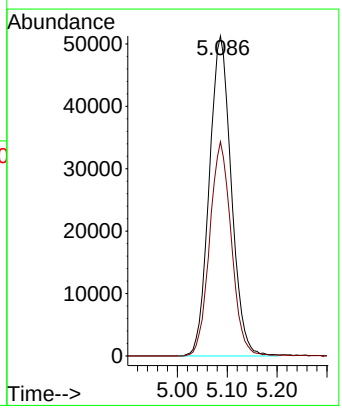
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

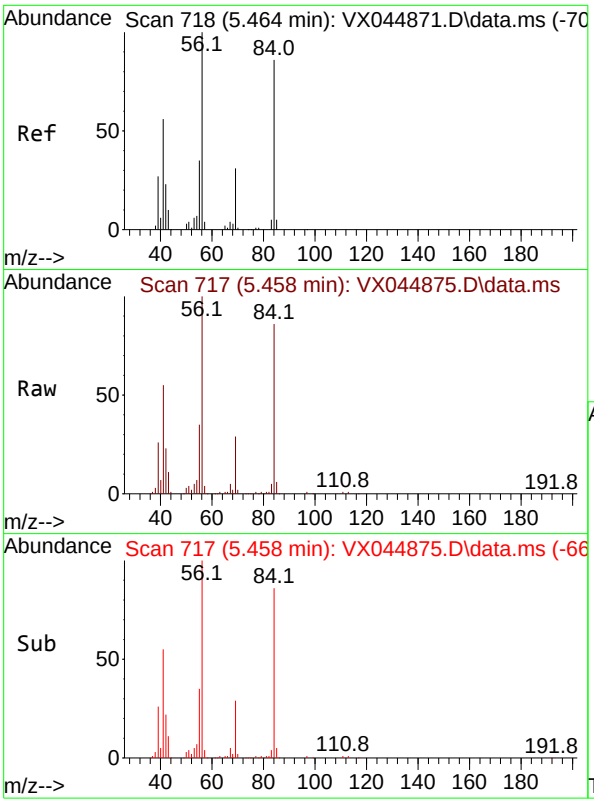


#30
Chloroform
Concen: 48.393 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 157312

Ion	Ratio	Lower	Upper
83	100		
85	66.9	52.1	78.1

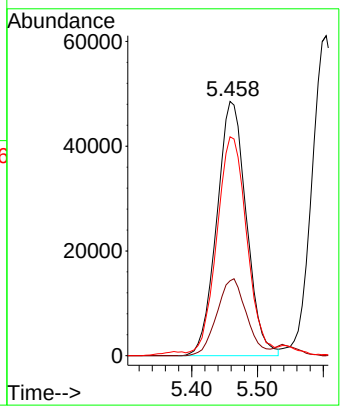




#31
Cyclohexane
Concen: 49.211 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 56 Resp: 15207

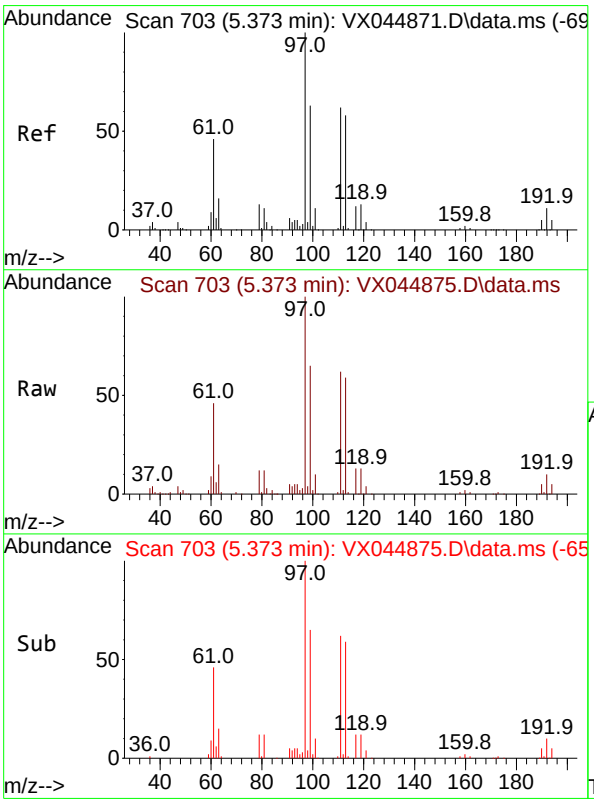
Ion	Ratio	Lower	Upper
56	100		
69	29.4	24.4	36.6
84	84.6	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

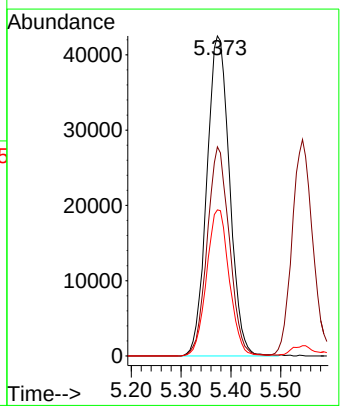
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

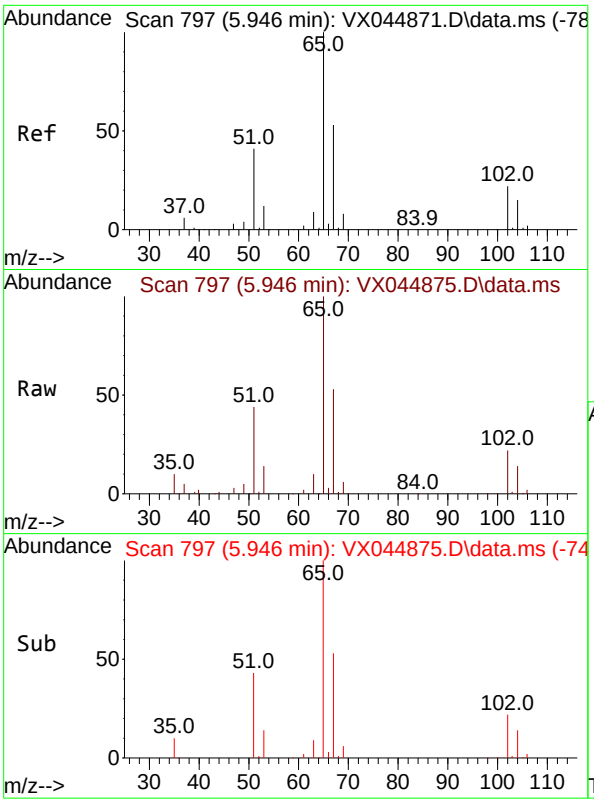


#32
1,1,1-Trichloroethane
Concen: 48.825 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 97 Resp: 134626

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.7	36.6	55.0

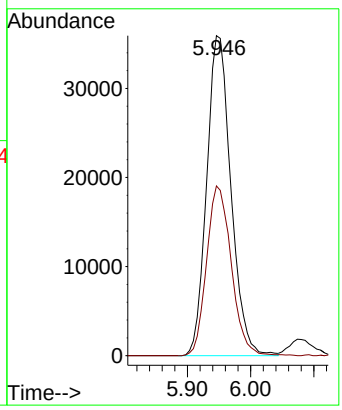




#33
1,2-Dichloroethane-d4
Concen: 48.061 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 65 Resp: 9563

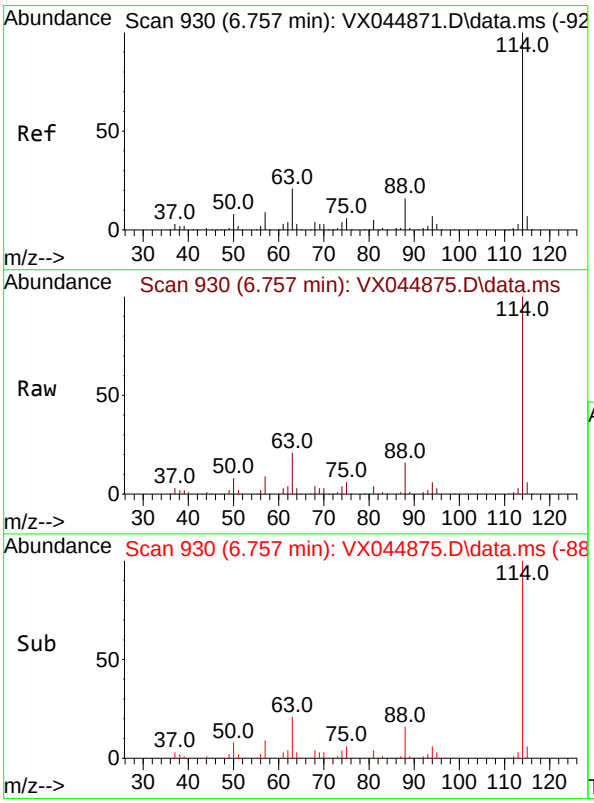
Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

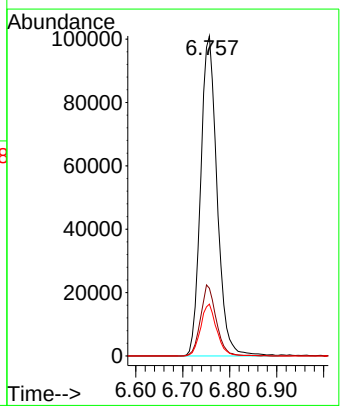
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

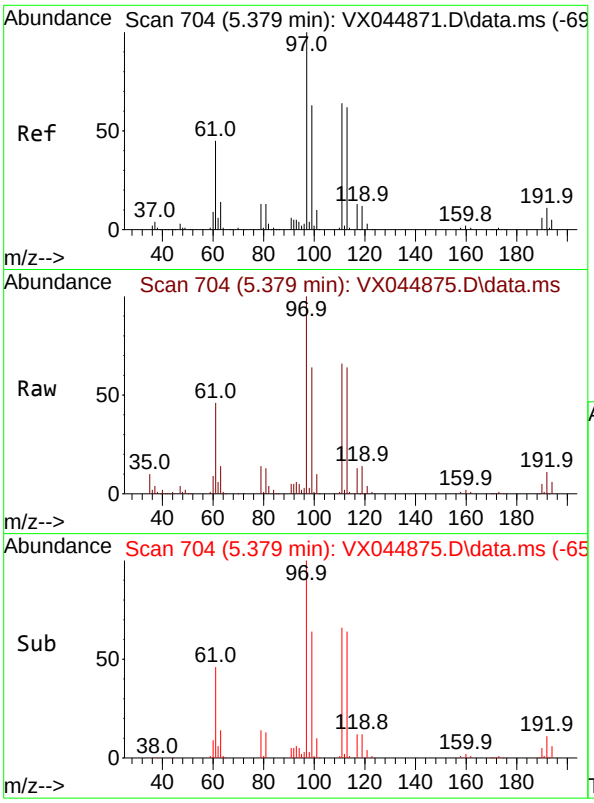


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:114 Resp: 245098

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.2	0.0	31.4

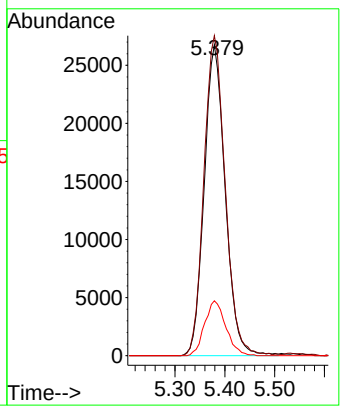




#35
Dibromofluoromethane
Concen: 49.173 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:113 Resp: 7836

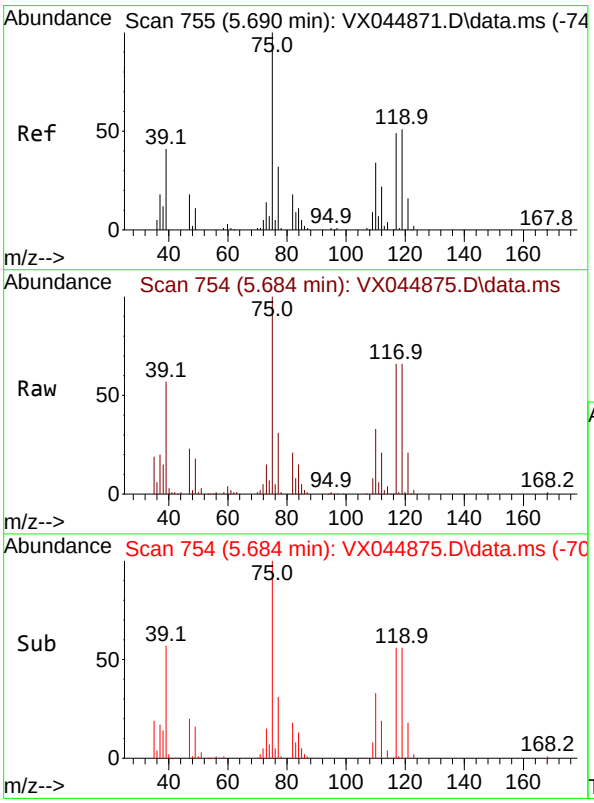
Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	17.9	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

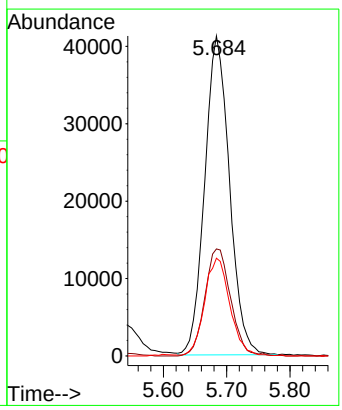
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

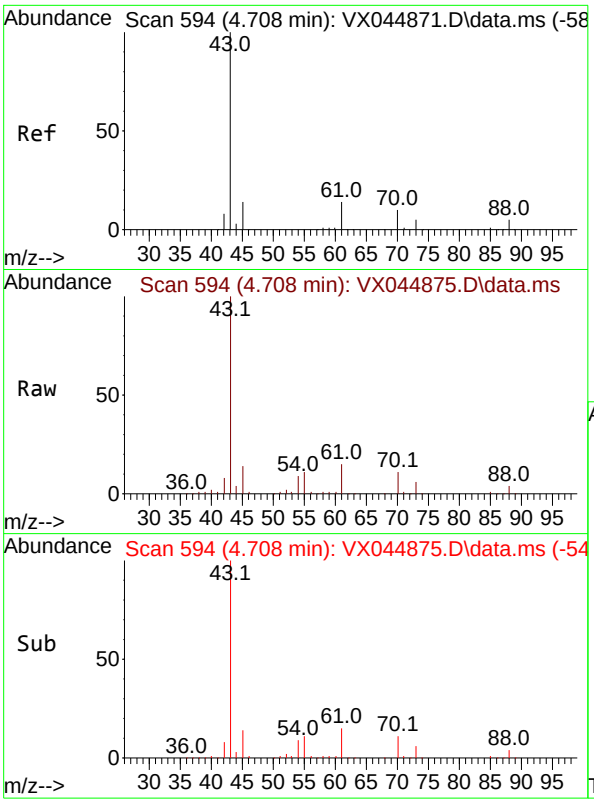


#36
1,1-Dichloropropene
Concen: 48.702 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 111968

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.2	51.6
77	31.6	24.6	37.0

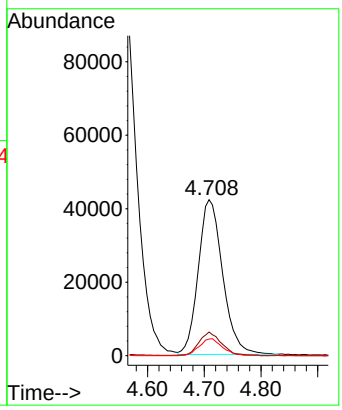




#37
Ethyl Acetate
Concen: 49.300 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 12607

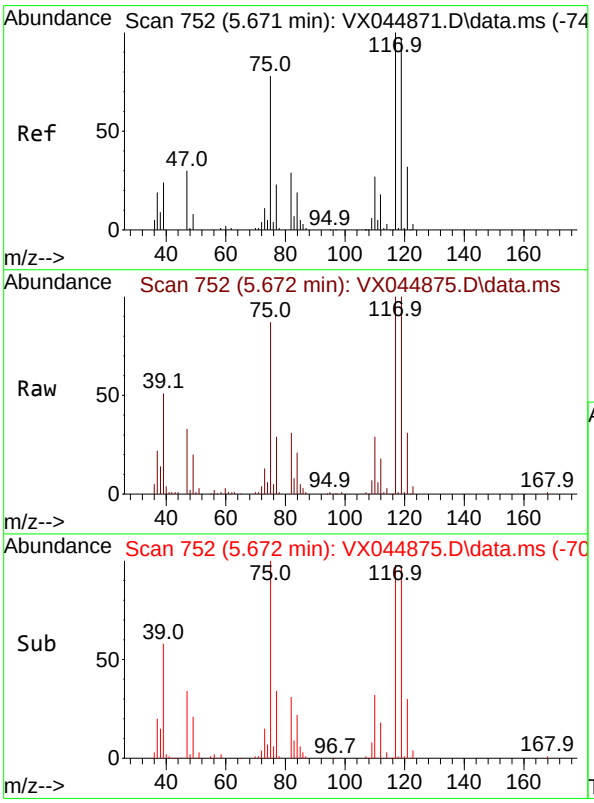
Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.0	16.4
70	10.4	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

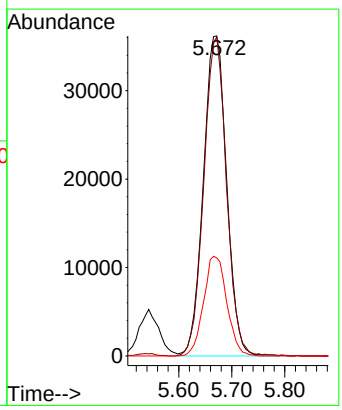
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

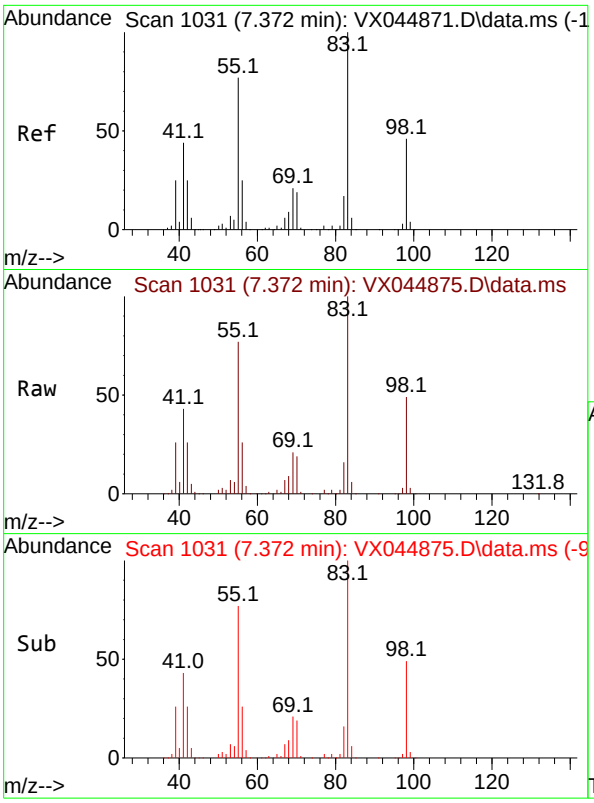


#38
Carbon Tetrachloride
Concen: 49.083 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 110581

Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.5	116.3
121	30.6	25.6	38.4

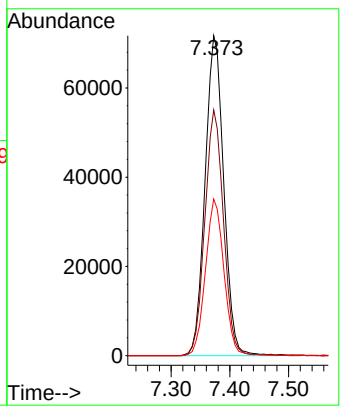




#39
Methylcyclohexane
Concen: 53.254 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 15828

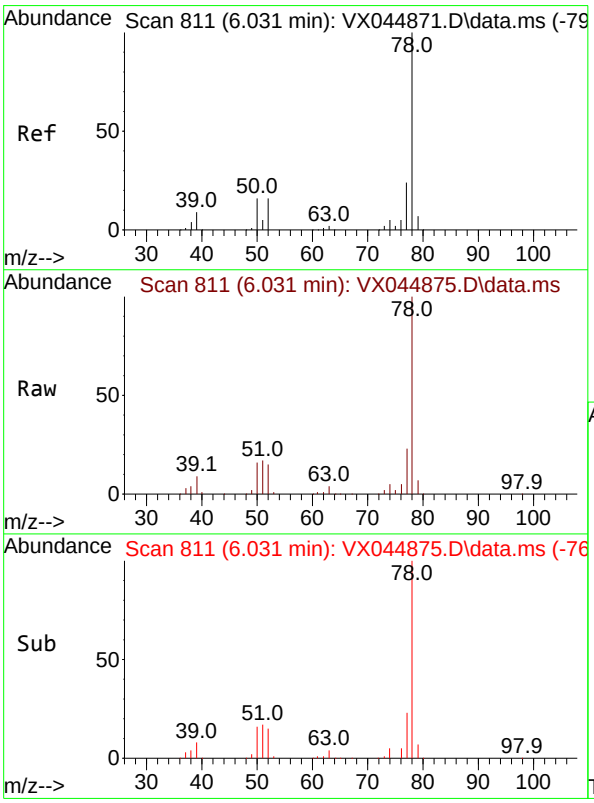
Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.3	91.9
98	49.0	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

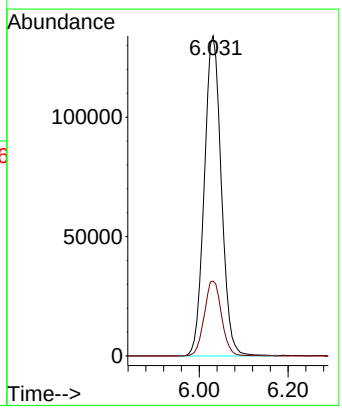
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

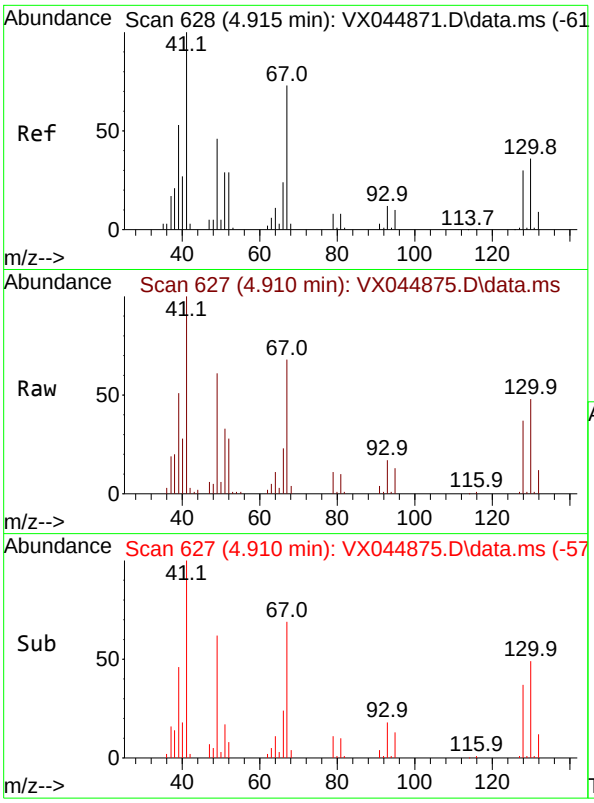


#40
Benzene
Concen: 49.919 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 78 Resp: 358365

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6

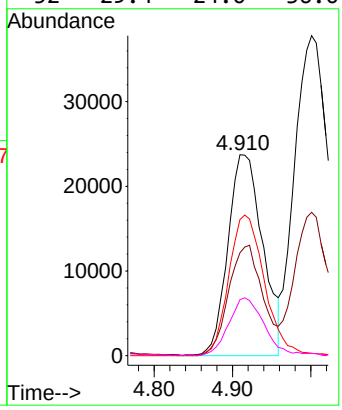




#41
Methacrylonitrile
Concen: 53.741 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 7355

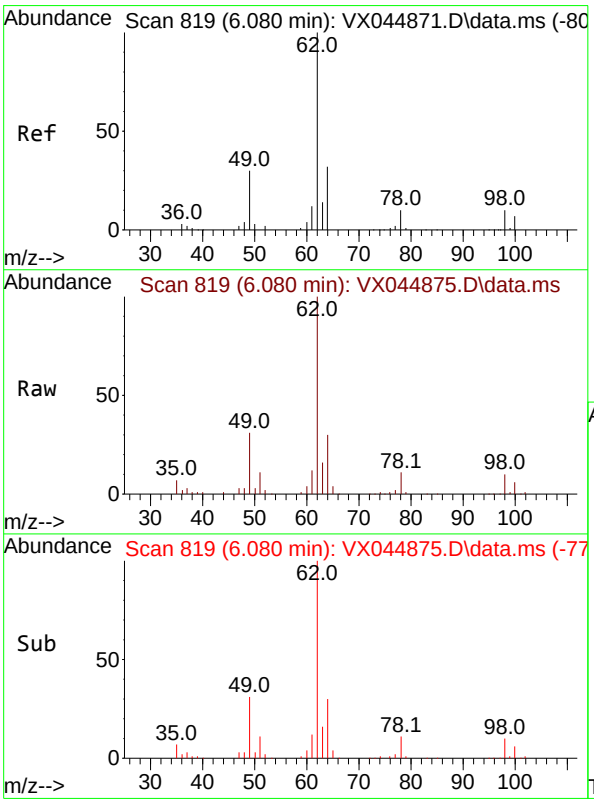
Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.1	64.7
67	71.9	57.0	85.6
52	29.4	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

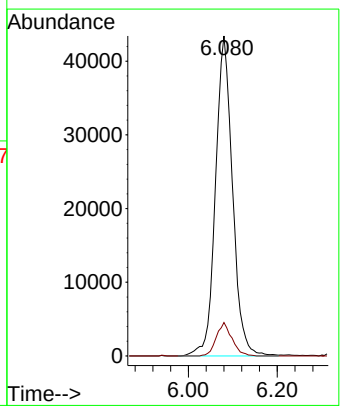
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

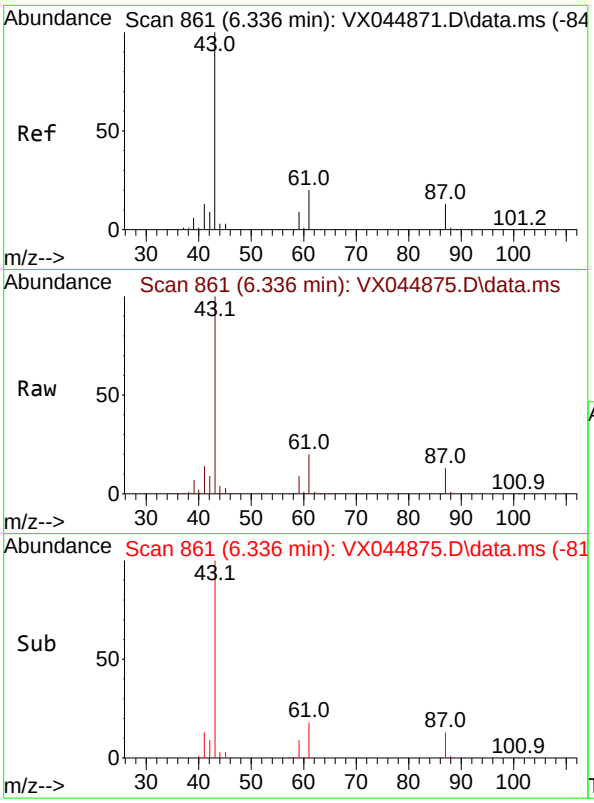


#42
1,2-Dichloroethane
Concen: 50.410 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 115339

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4

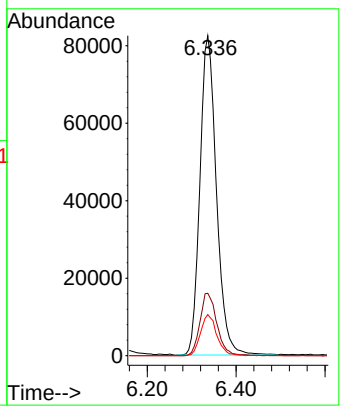




#43
Isopropyl Acetate
Concen: 51.798 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 21390

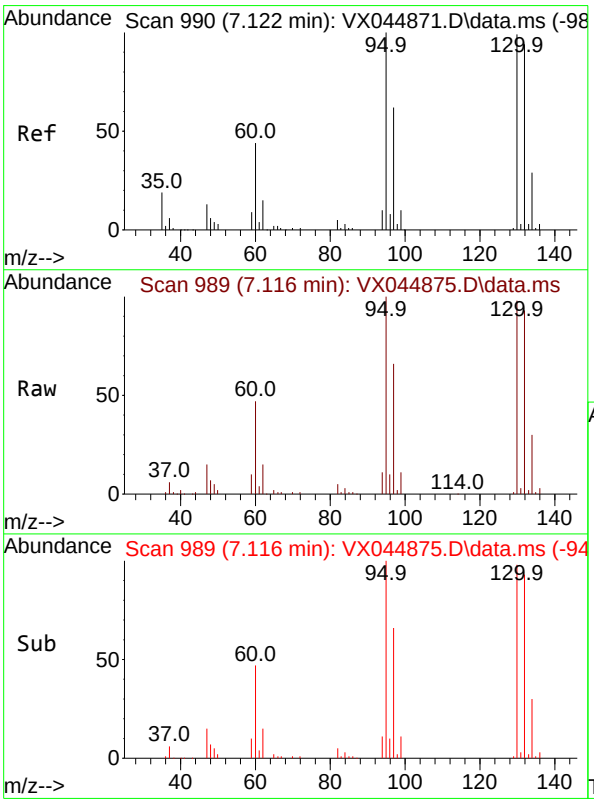
Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.8
87	12.6	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

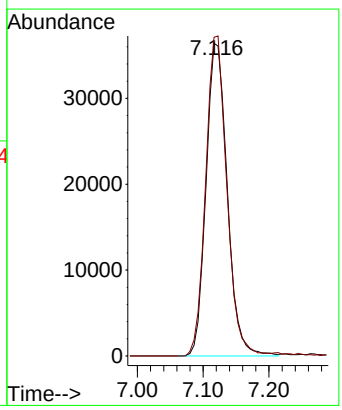
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

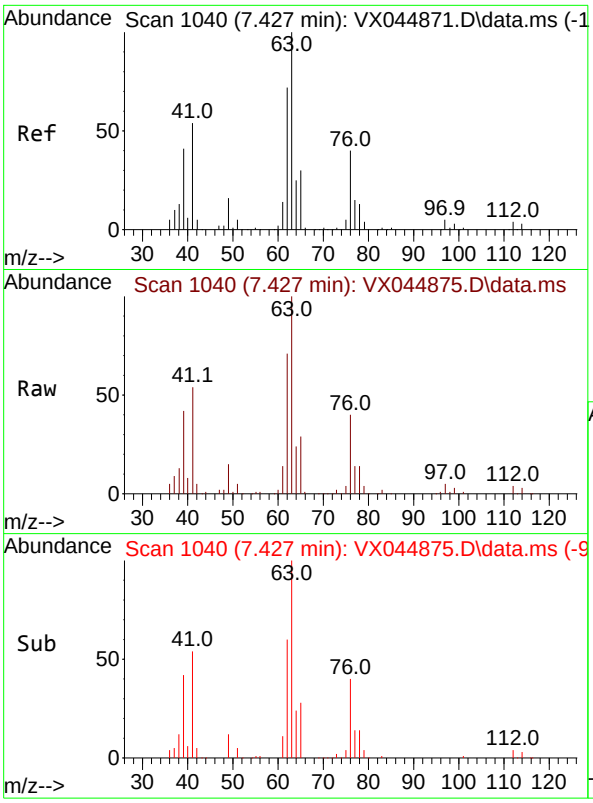


#44
Trichloroethene
Concen: 49.917 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:130 Resp: 81911

Ion	Ratio	Lower	Upper
130	100		
95	102.0	0.0	202.4

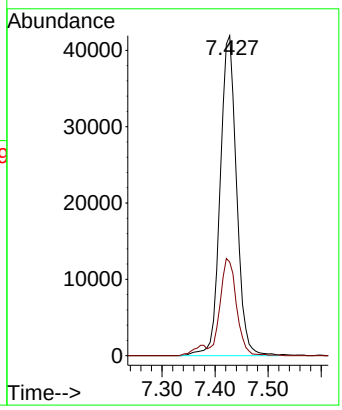




#45
1,2-Dichloropropane
Concen: 50.387 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 8999

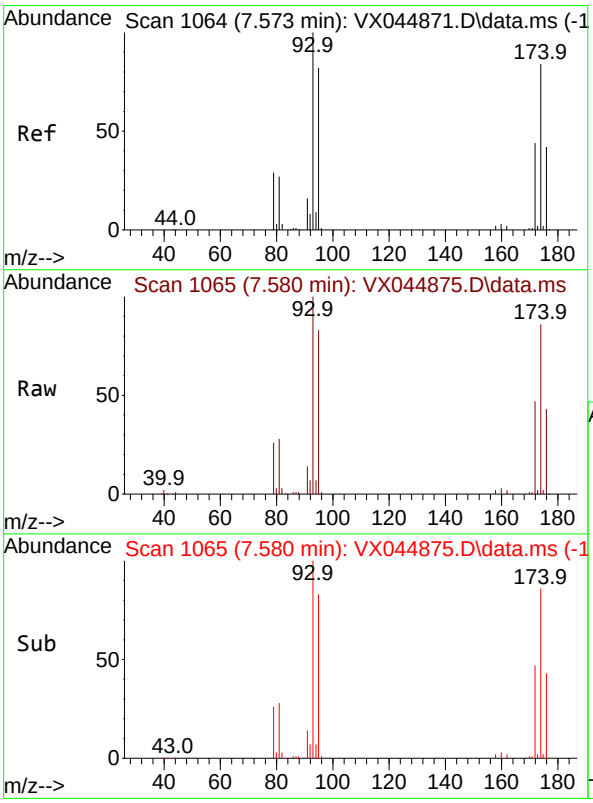
Ion	Ratio	Lower	Upper
63	100		
65	29.3	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

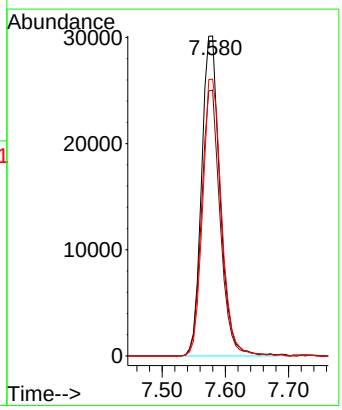
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

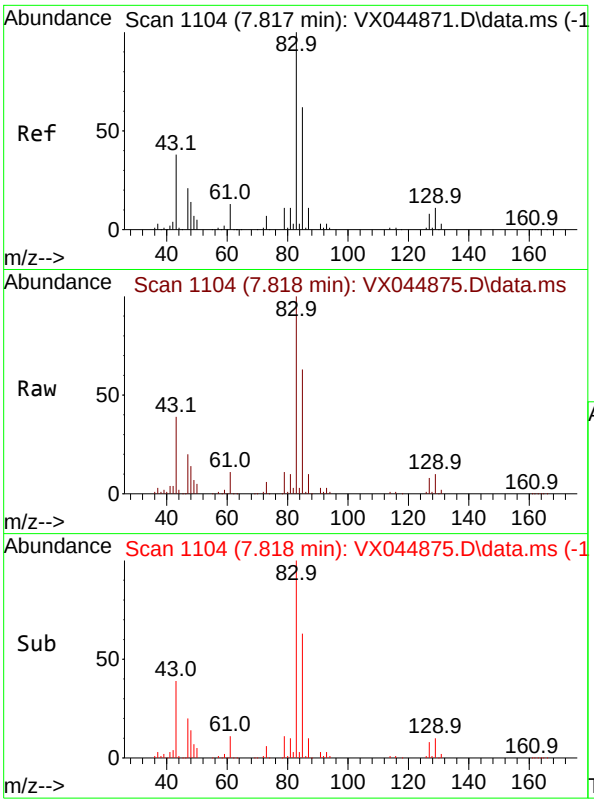


#46
Dibromomethane
Concen: 49.540 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 93 Resp: 61360

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.2	99.4
174	88.6	69.9	104.9

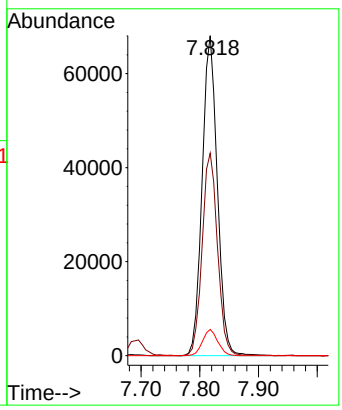




#47
Bromodichloromethane
Concen: 50.980 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 12226

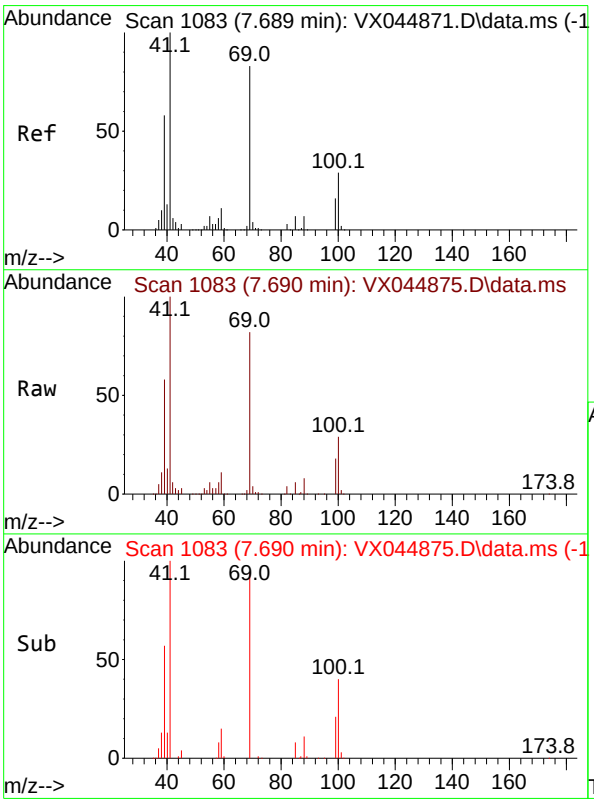
Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.0	75.0
127	8.2	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

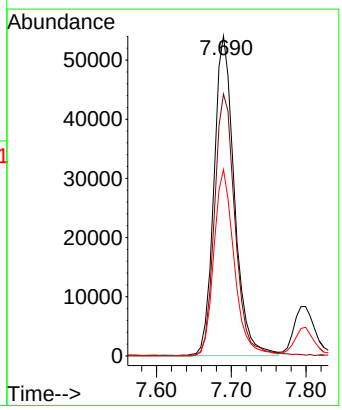
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

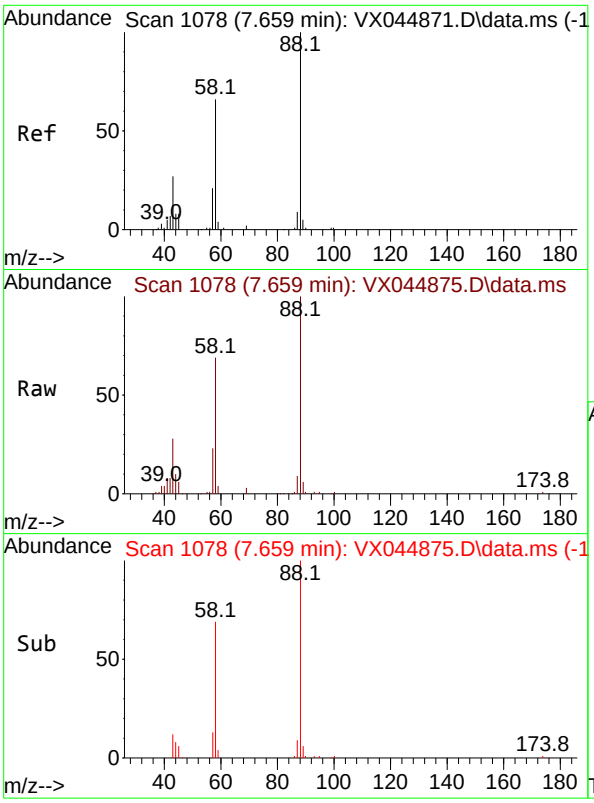


#48
Methyl methacrylate
Concen: 52.848 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 102900

Ion	Ratio	Lower	Upper
41	100		
69	83.2	65.8	98.8
39	57.8	46.4	69.6

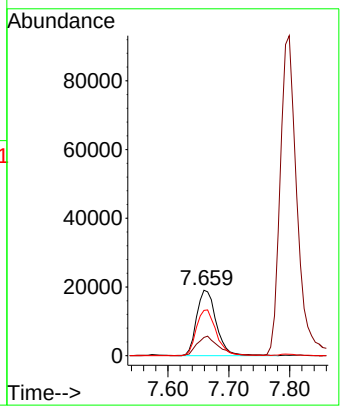




#49
1,4-Dioxane
Concen: 1021.138 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 88 Resp: 4265

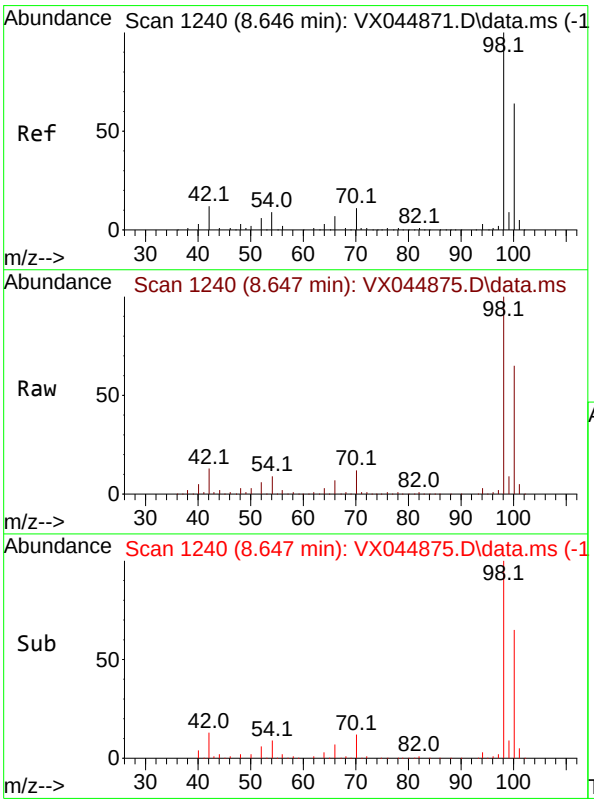
Ion	Ratio	Lower	Upper
88	100		
43	32.2	26.6	39.8
58	71.2	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

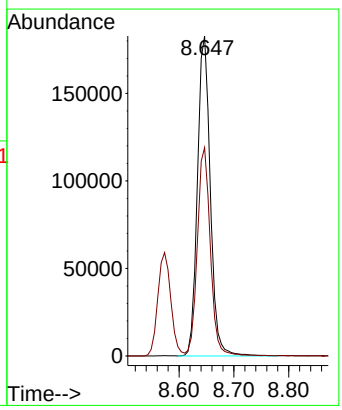
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

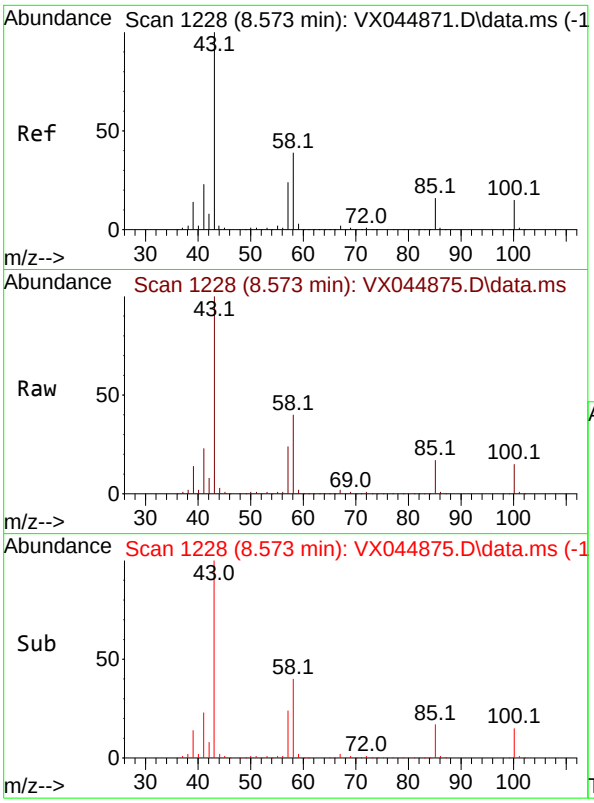


#50
Toluene-d8
Concen: 49.649 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 98 Resp: 299178

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1

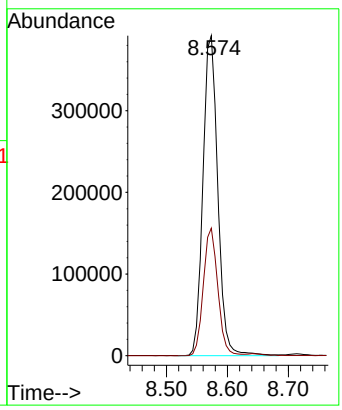




#51
4-Methyl-2-Pentanone
Concen: 265.112 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 66556

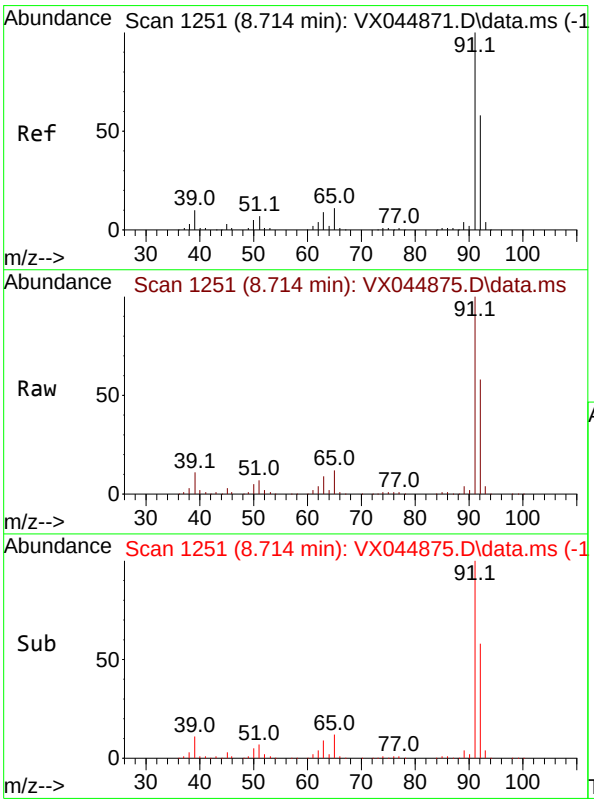
Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

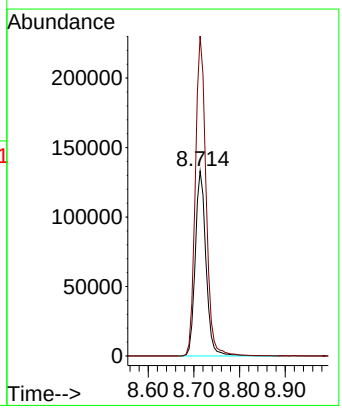
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

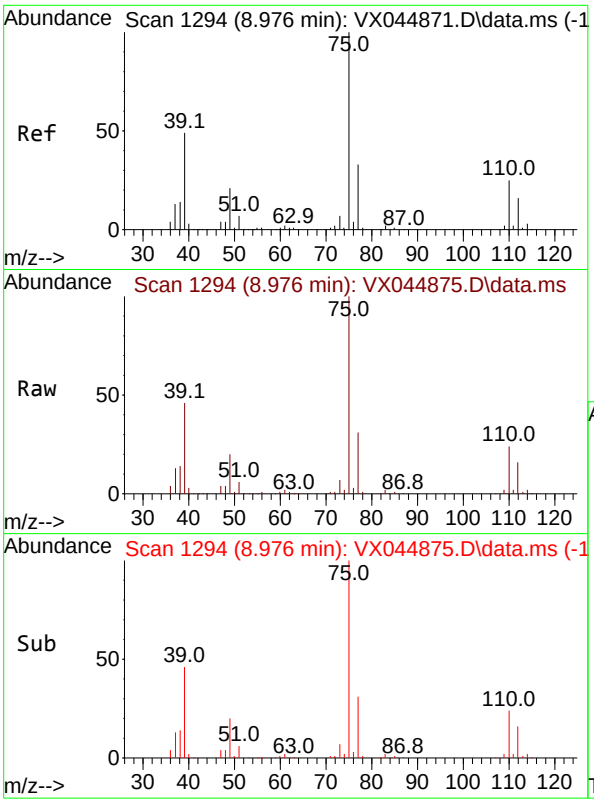


#52
Toluene
Concen: 50.680 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 92 Resp: 216682

Ion	Ratio	Lower	Upper
92	100		
91	173.4	137.4	206.2

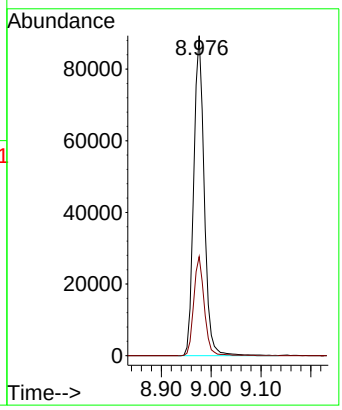




#53
t-1,3-Dichloropropene
Concen: 53.731 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 13040

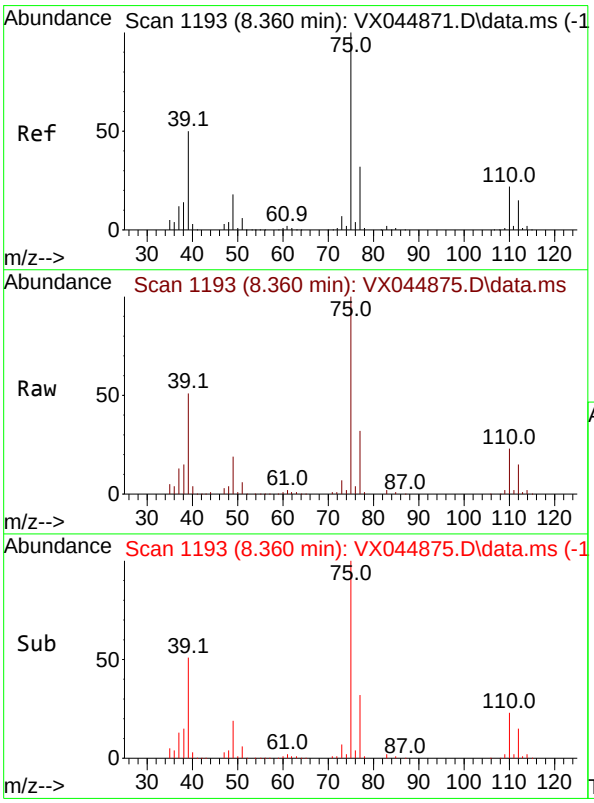
Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

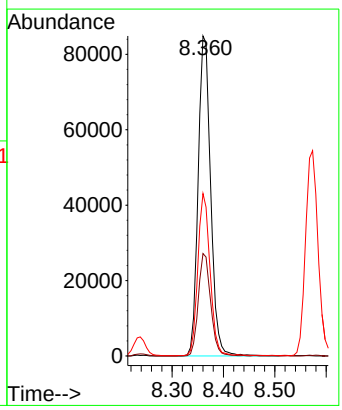
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

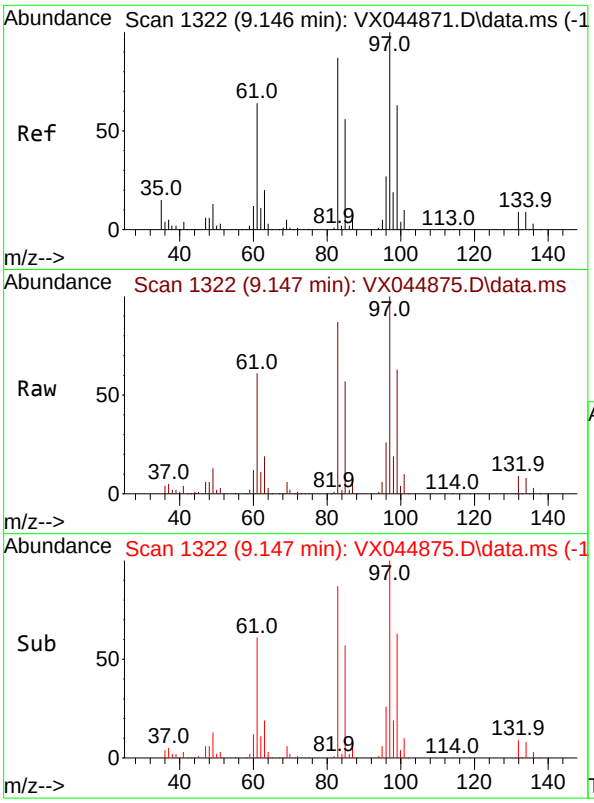


#54
cis-1,3-Dichloropropene
Concen: 52.986 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 143379

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.3	37.9
39	50.6	40.0	60.0

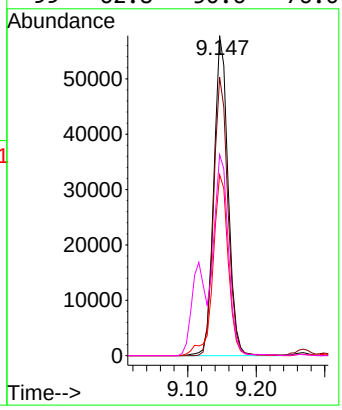




#55
1,1,2-Trichloroethane
Concen: 50.811 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 97 Resp: 8351

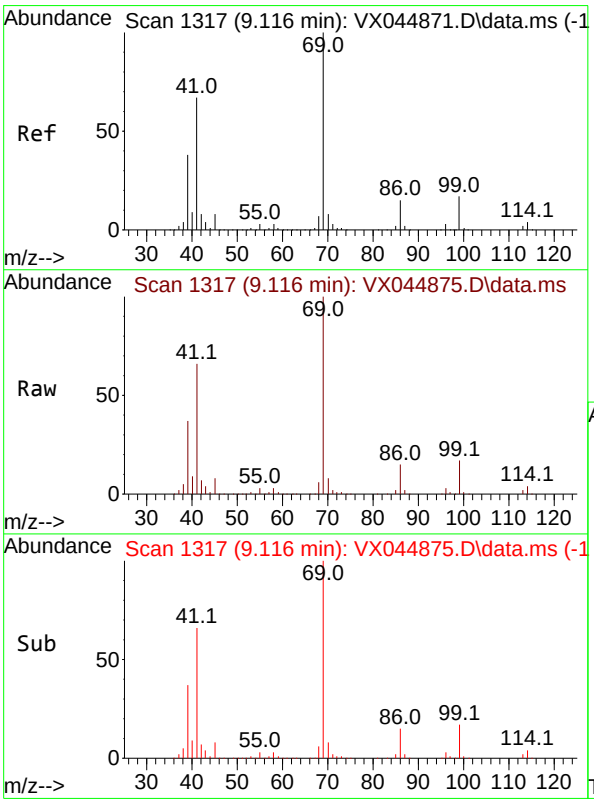
Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.8	104.6
85	56.6	44.8	67.2
99	62.8	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

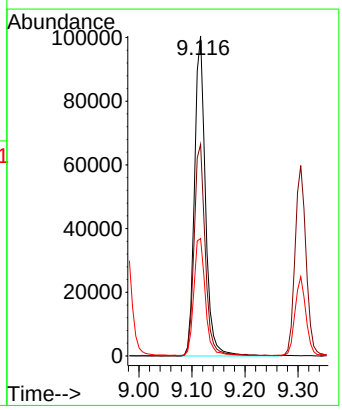
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

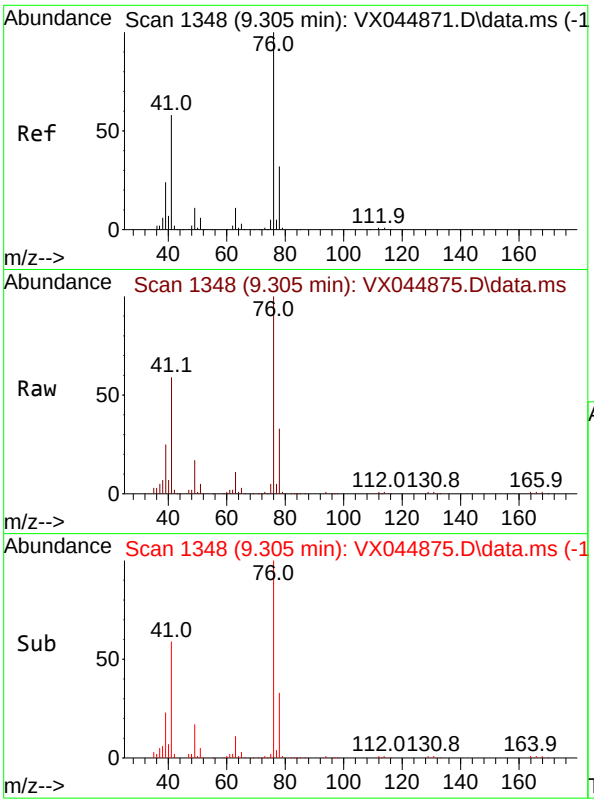


#56
Ethyl methacrylate
Concen: 54.068 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 69 Resp: 143524

Ion	Ratio	Lower	Upper
69	100		
41	67.8	55.2	82.8
39	38.4	30.8	46.2

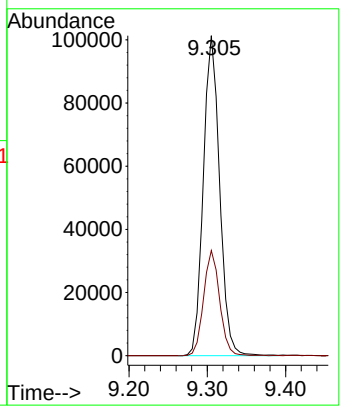




#57
1,3-Dichloropropane
Concen: 50.852 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 76 Resp: 14623

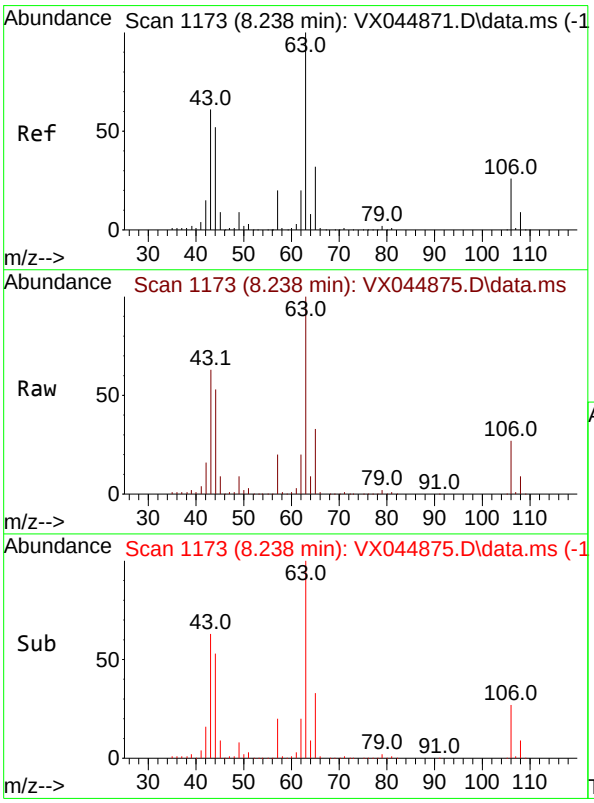
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

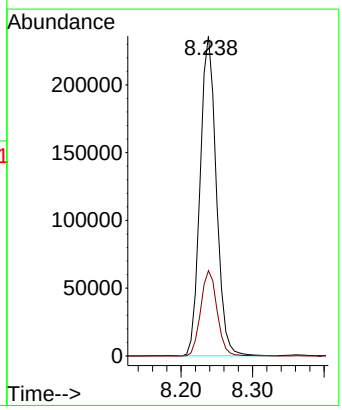
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

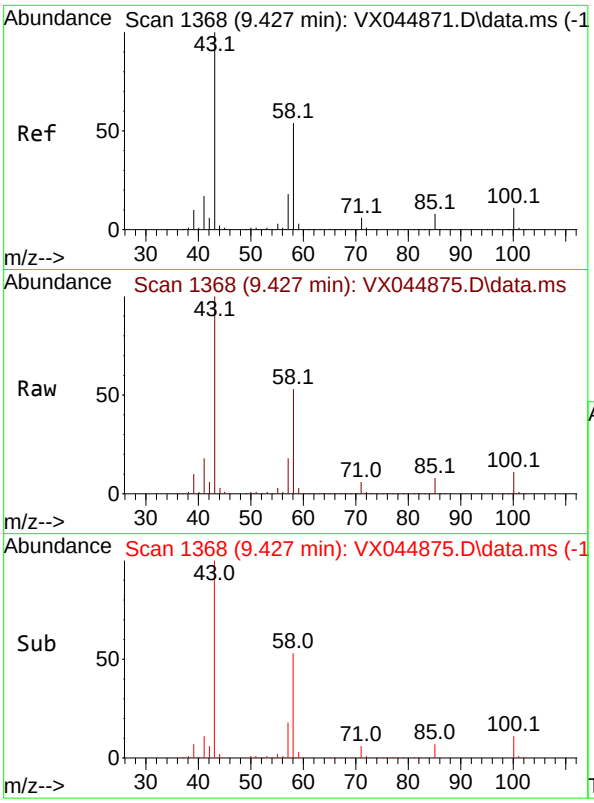


#58
2-Chloroethyl Vinyl ether
Concen: 284.352 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 370622

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.3	31.9





#59
2-Hexanone
Concen: 269.951 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

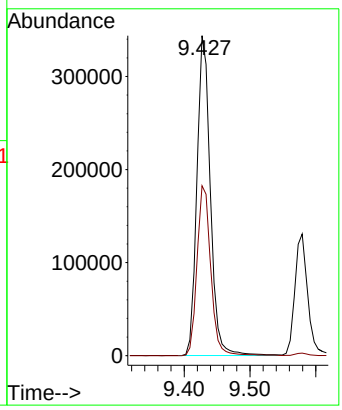
Tgt Ion: 43 Resp: 48829

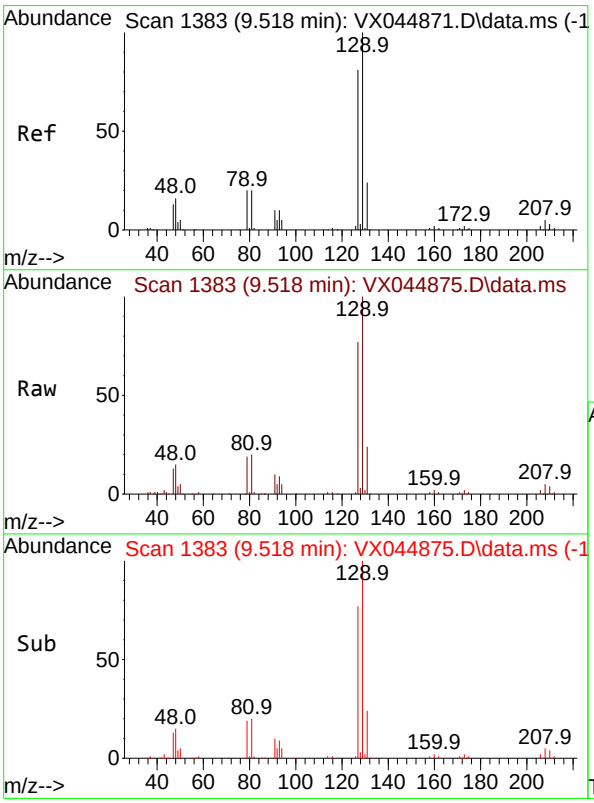
Ion	Ratio	Lower	Upper
43	100		
58	54.5	27.5	82.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

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

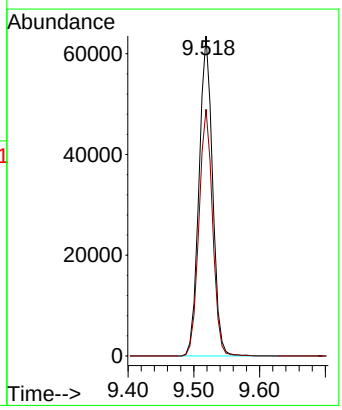


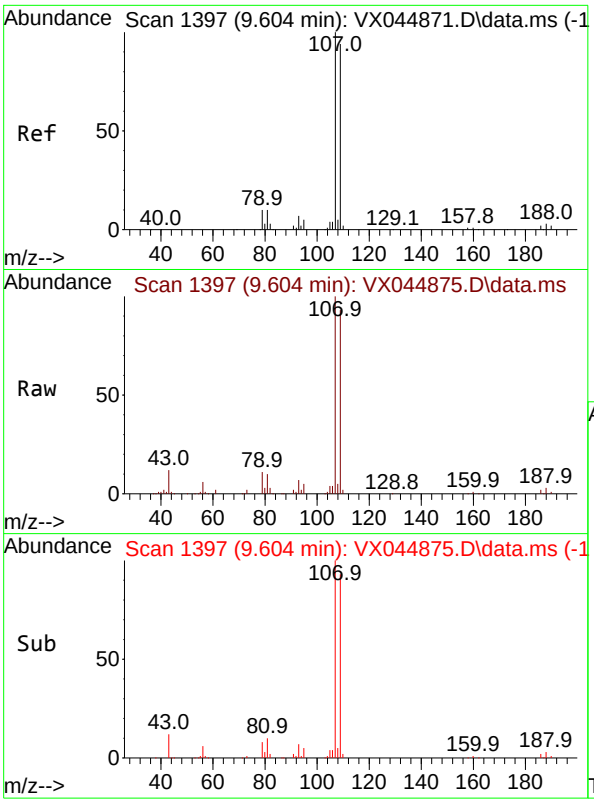


#60
Dibromochloromethane
Concen: 51.673 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:129 Resp: 90826

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.3

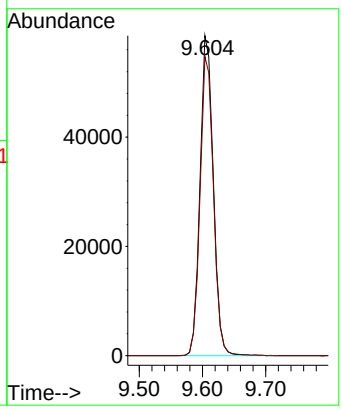




#61
1,2-Dibromoethane
Concen: 51.436 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:107 Resp: 8568

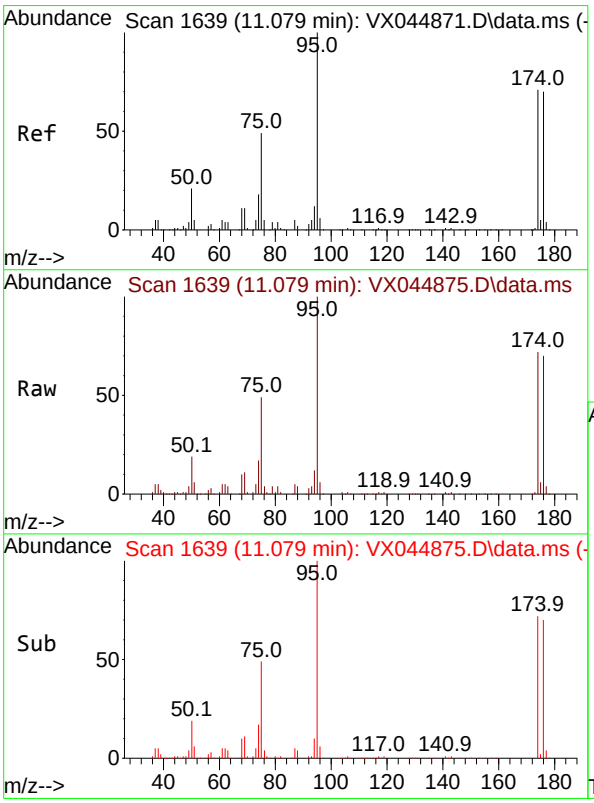
Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

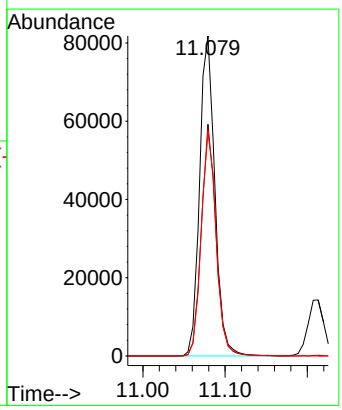
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

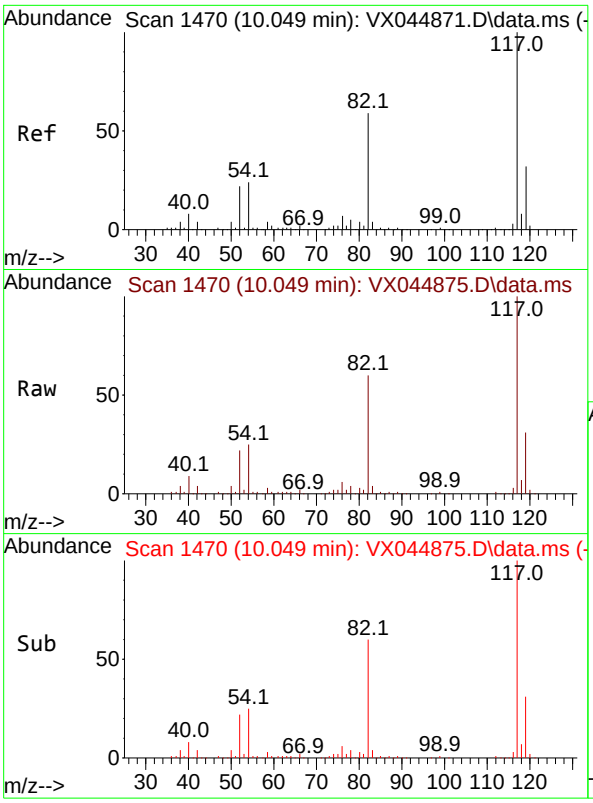


#62
4-Bromofluorobenzene
Concen: 51.786 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 95 Resp: 105201

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	142.6
176	68.9	0.0	141.6

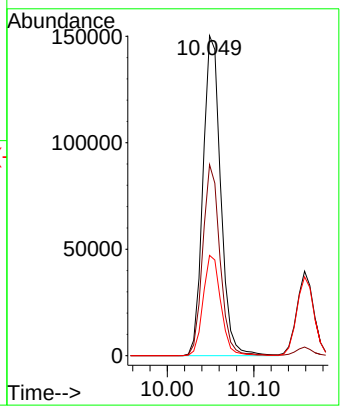




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 21324

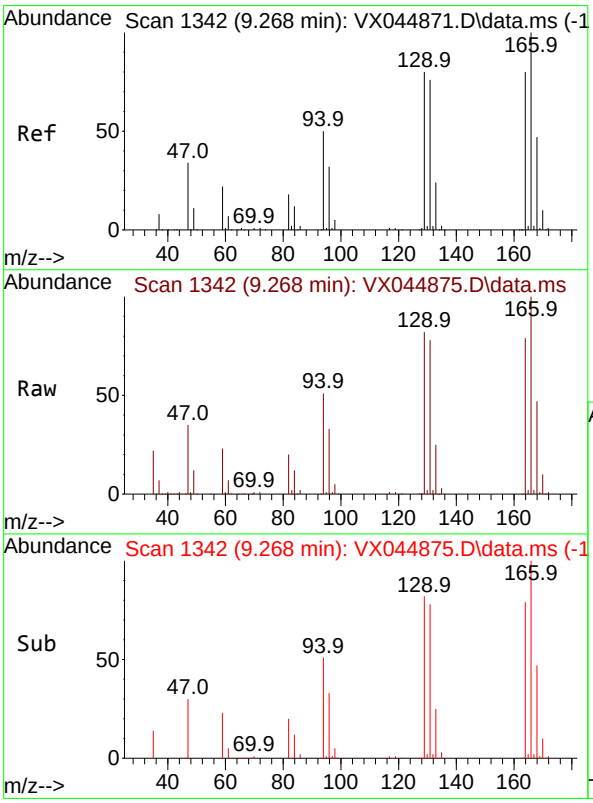
Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.5	71.3
119	31.3	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

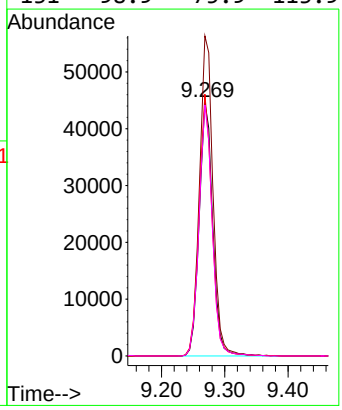
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

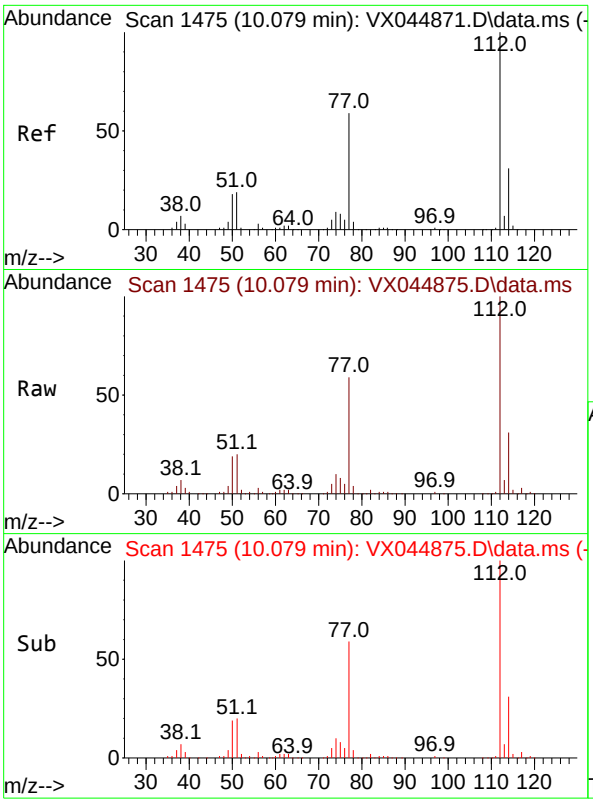


#64
Tetrachloroethene
Concen: 49.424 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:164 Resp: 66468

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.4	150.6
129	103.1	79.9	119.9
131	98.9	75.9	113.9

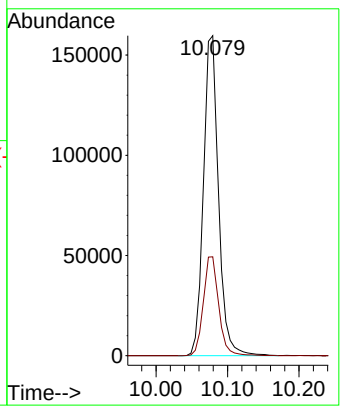




#65
Chlorobenzene
Concen: 50.952 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:112 Resp: 23337

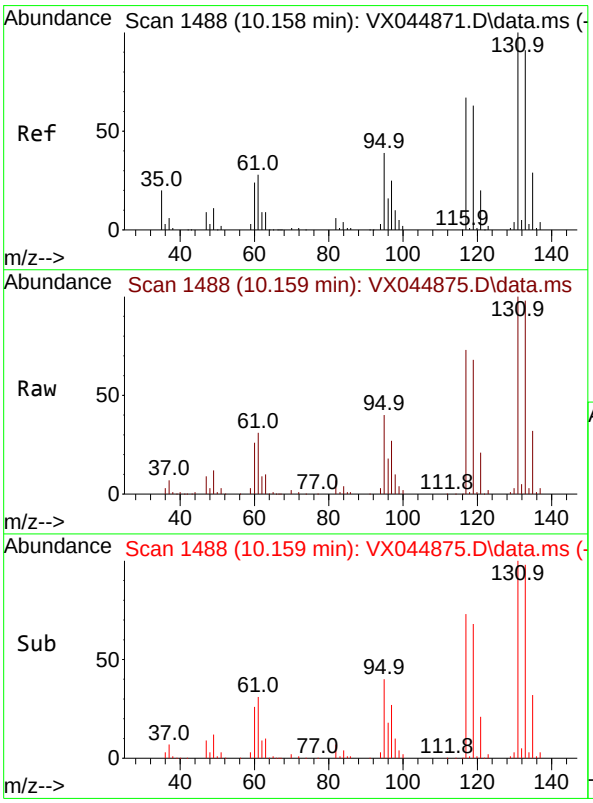
Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

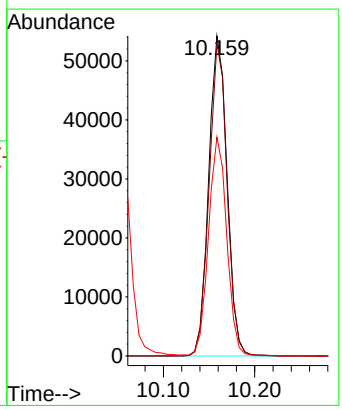
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

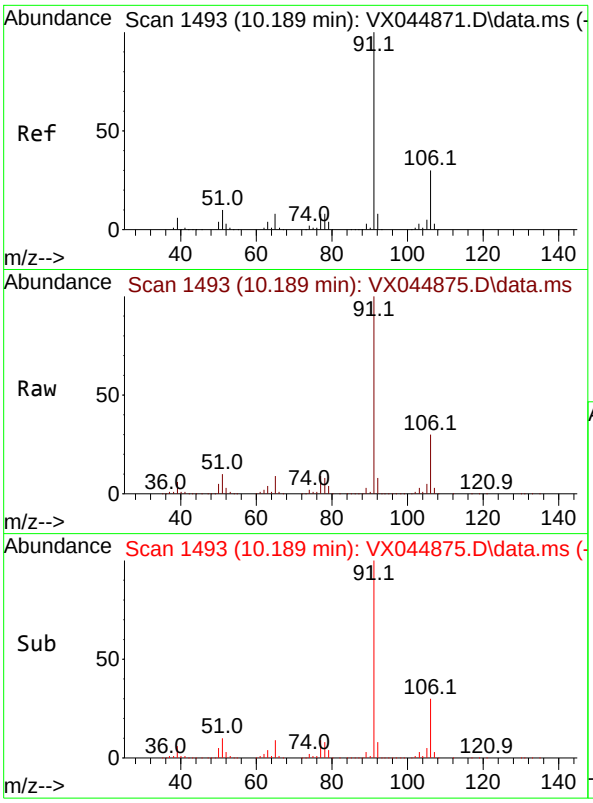


#66
1,1,1,2-Tetrachloroethane
Concen: 51.205 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:131 Resp: 75488

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.1	141.3
119	68.2	33.6	100.6

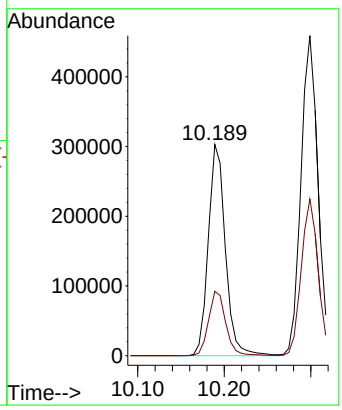




#67
Ethyl Benzene
Concen: 51.415 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 41557

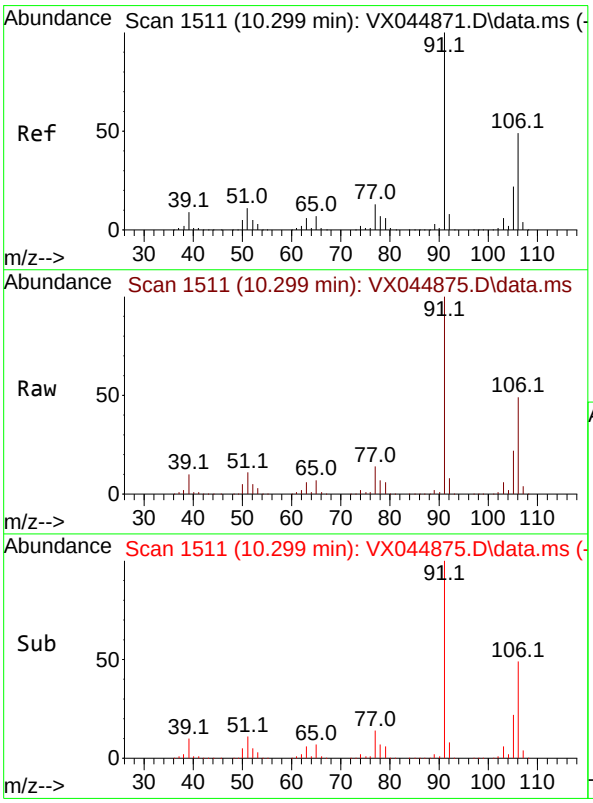
Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

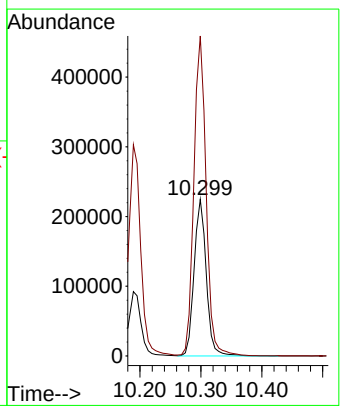
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

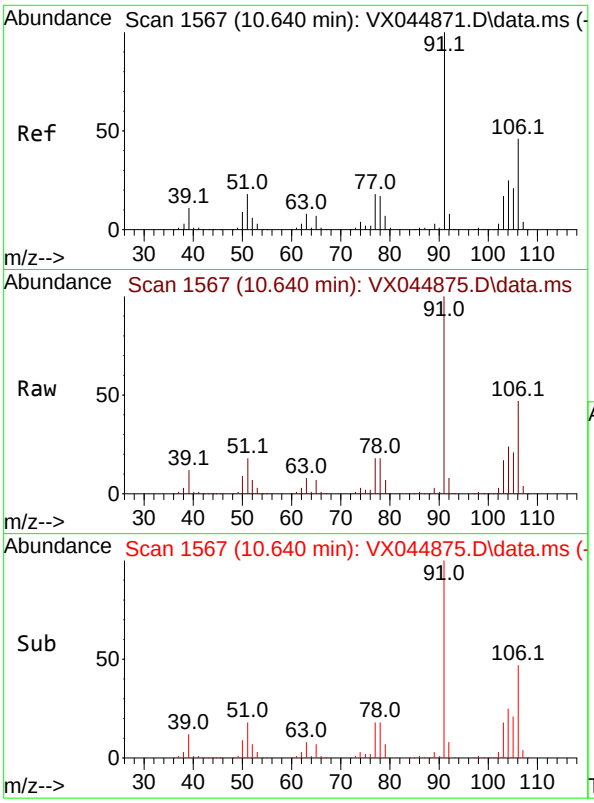


#68
m/p-Xylenes
Concen: 104.282 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:106 Resp: 310925

Ion	Ratio	Lower	Upper
106	100		
91	205.2	164.3	246.5

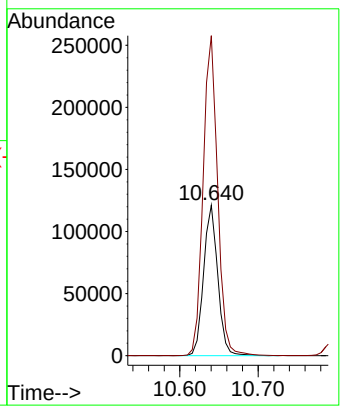




#69
o-Xylene
Concen: 50.804 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:106 Resp: 15199

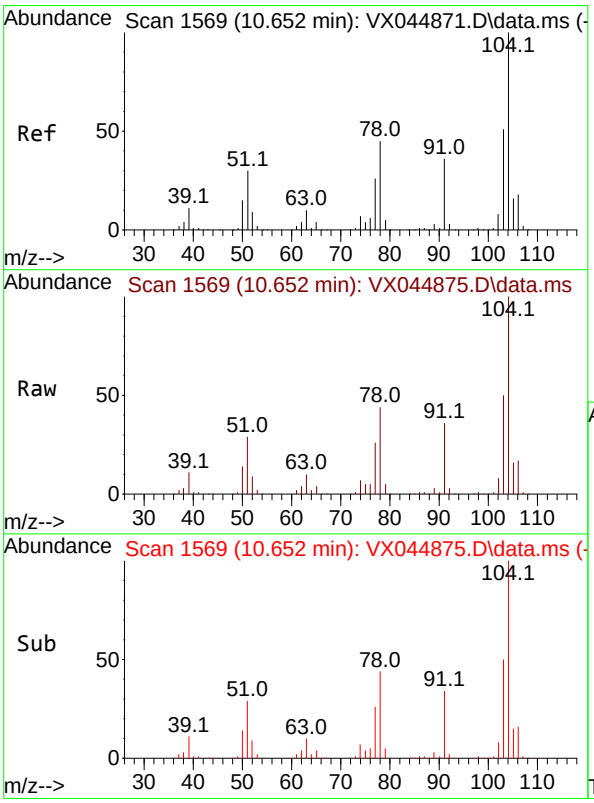
Ion	Ratio	Lower	Upper
106	100		
91	217.1	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

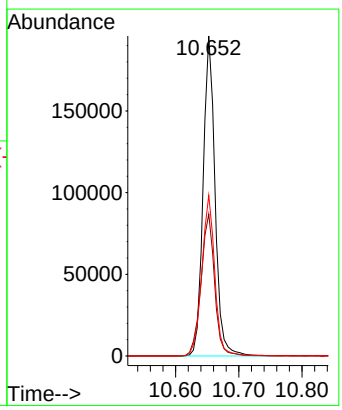
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

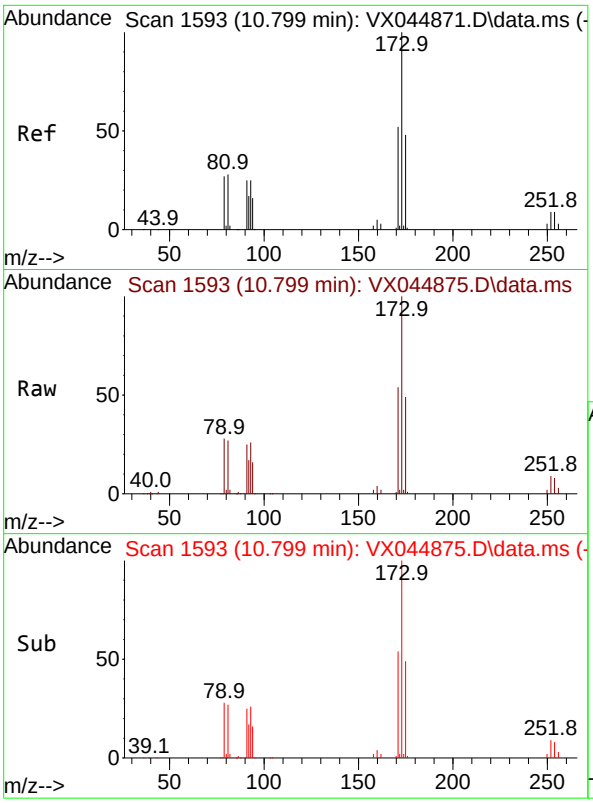


#70
Styrene
Concen: 53.521 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:104 Resp: 257972

Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.5	60.7
103	54.5	43.6	65.4

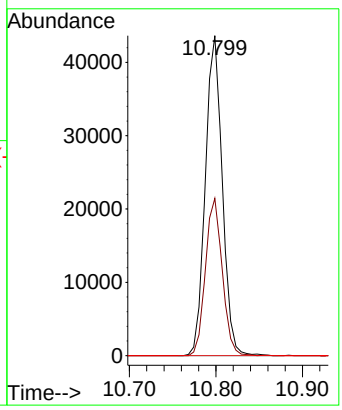




#71
Bromoform
Concen: 53.997 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:173 Resp: 5940

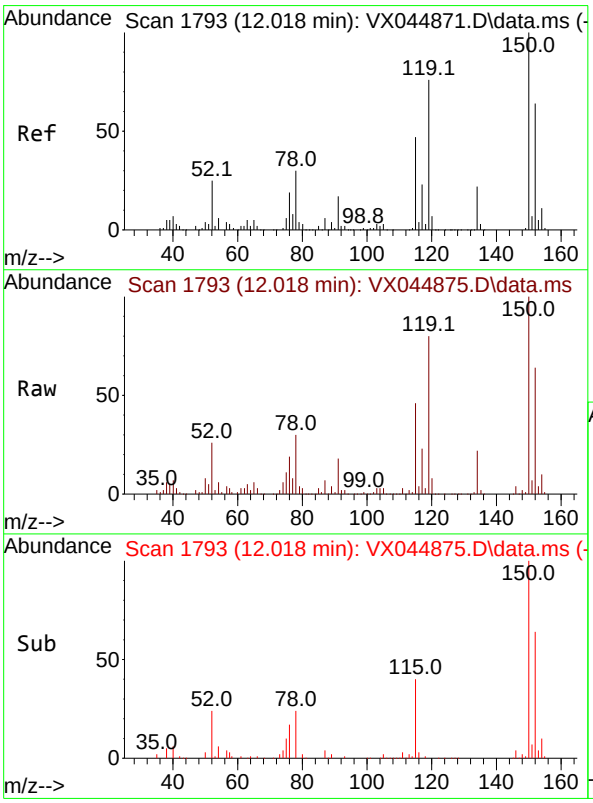
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

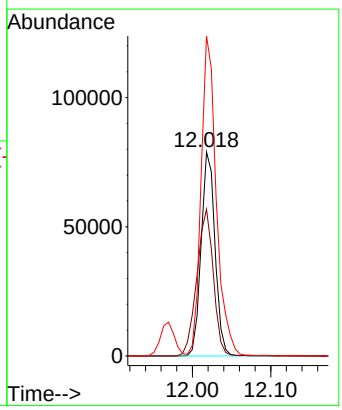
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

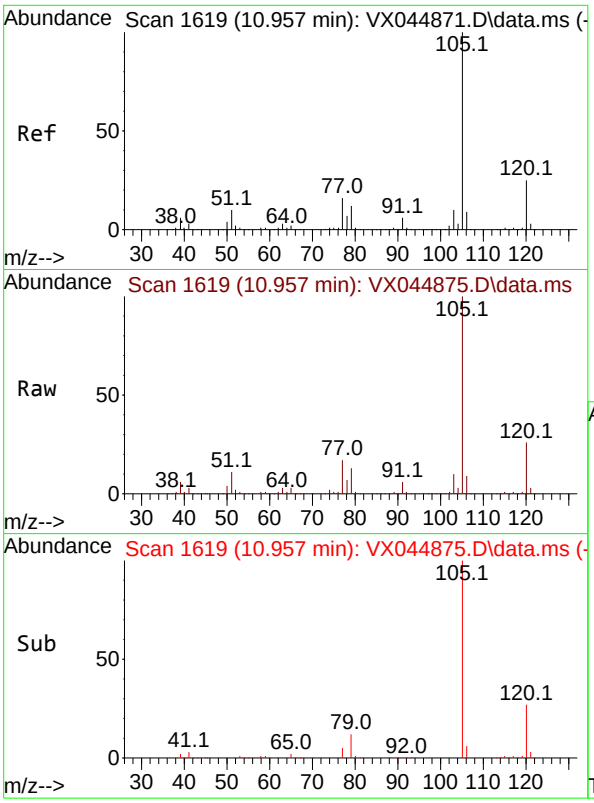


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:152 Resp: 97087

Ion	Ratio	Lower	Upper
152	100		
115	85.5	43.4	130.1
150	171.8	0.0	350.4

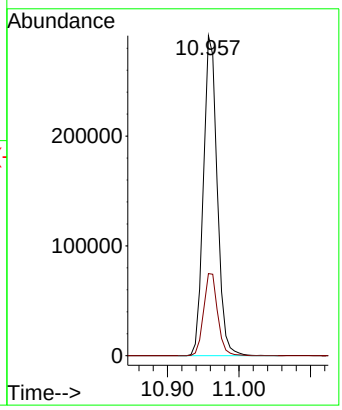




#73
Isopropylbenzene
Concen: 49.921 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 39024

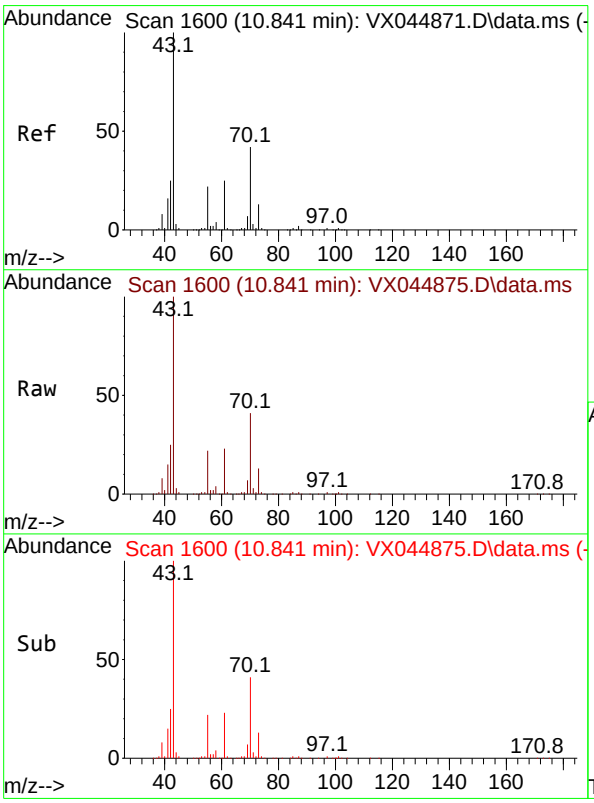
Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

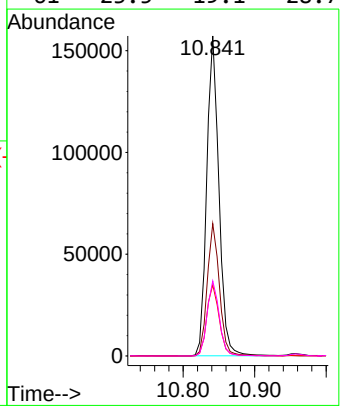
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

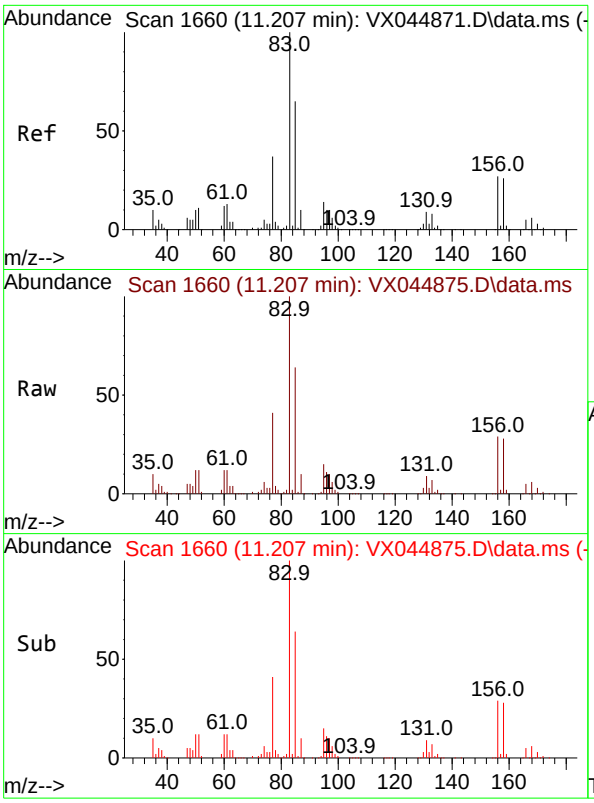


#74
N-amyl acetate
Concen: 52.621 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 186145

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.7	50.5
55	22.8	18.6	27.8
61	23.5	19.1	28.7

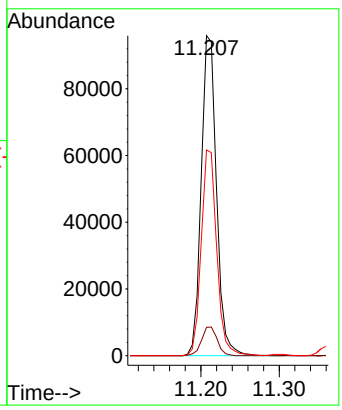




#75
1,1,2,2-Tetrachloroethane
Concen: 48.331 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 12982

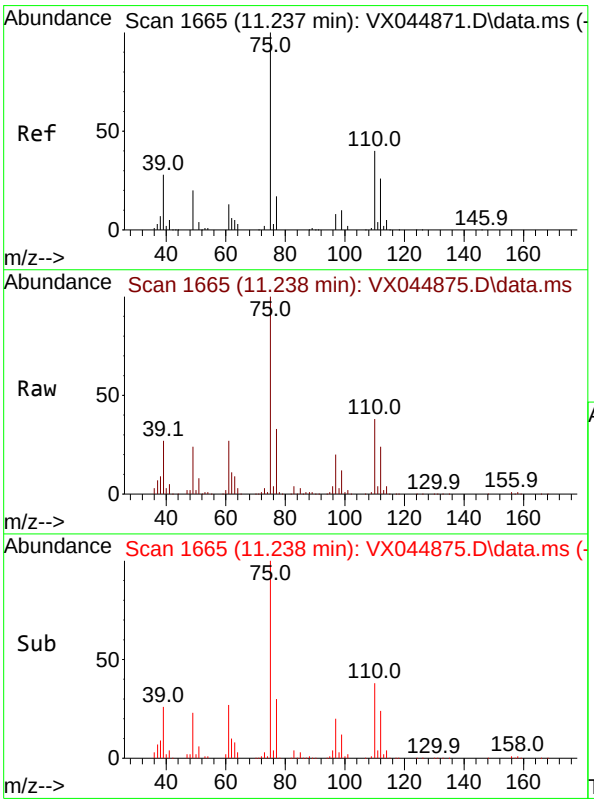
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.5
85	65.1	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

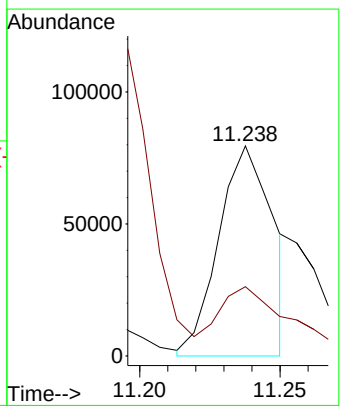
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

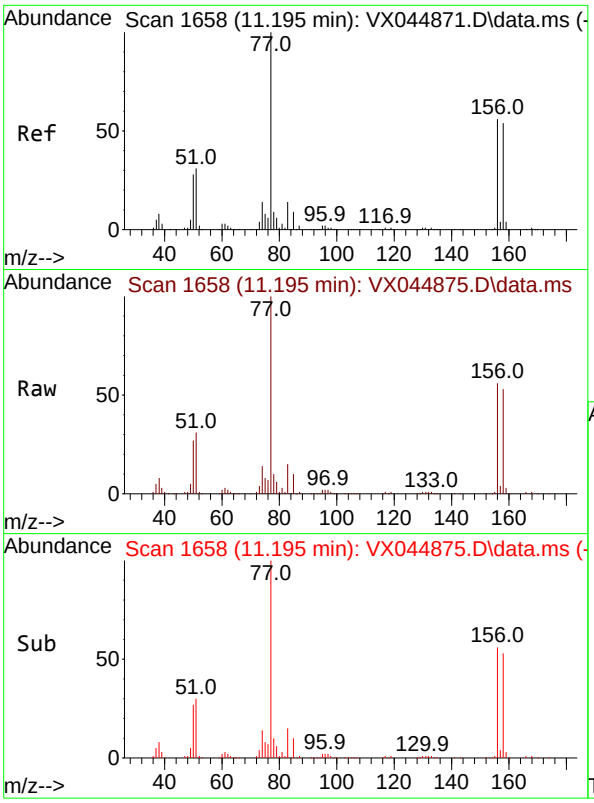


#76
1,2,3-Trichloropropane
Concen: 49.659 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 106893

Ion	Ratio	Lower	Upper
75	100		
77	43.7	21.9	65.7

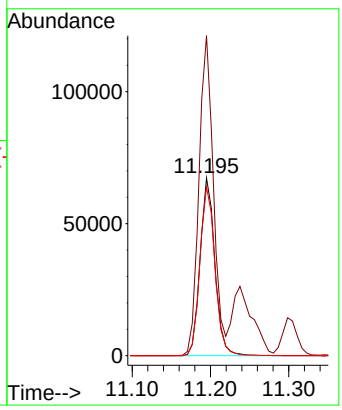




#77
Bromobenzene
Concen: 49.725 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:156 Resp: 8812

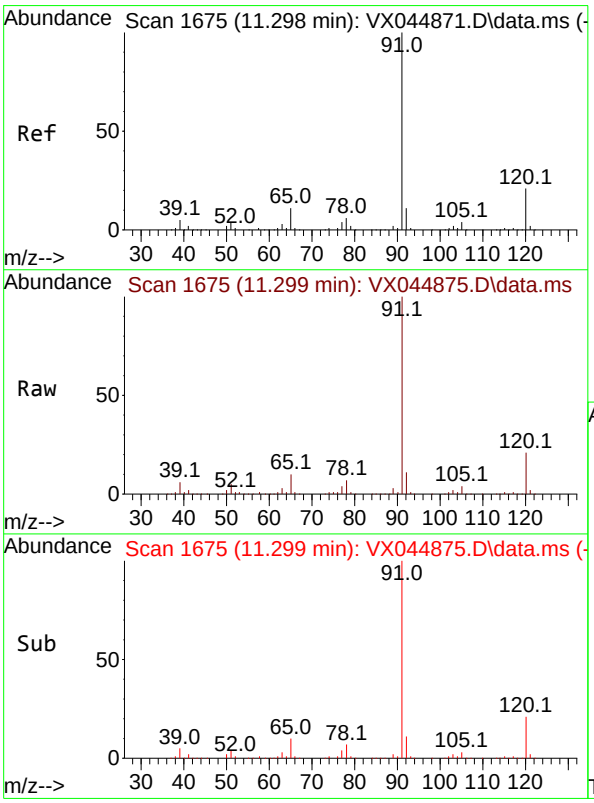
Ion	Ratio	Lower	Upper
156	100		
77	176.3	88.4	265.3
158	96.7	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

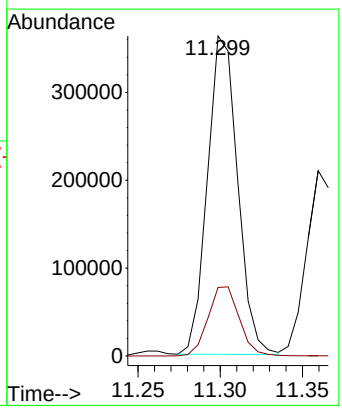
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

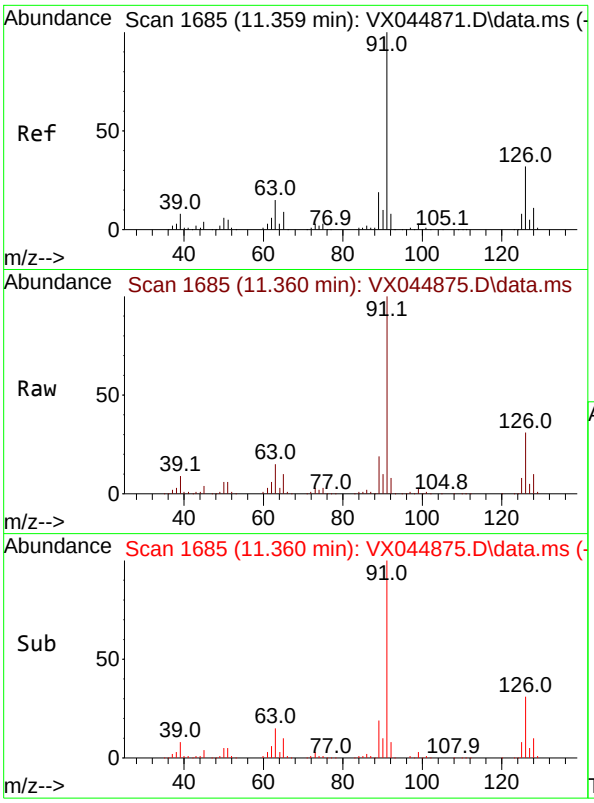


#78
n-propylbenzene
Concen: 51.386 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 463655

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3

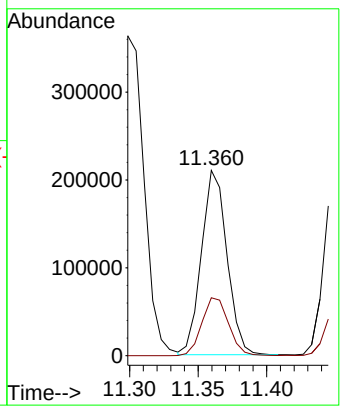




#79
2-Chlorotoluene
Concen: 49.065 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 27209

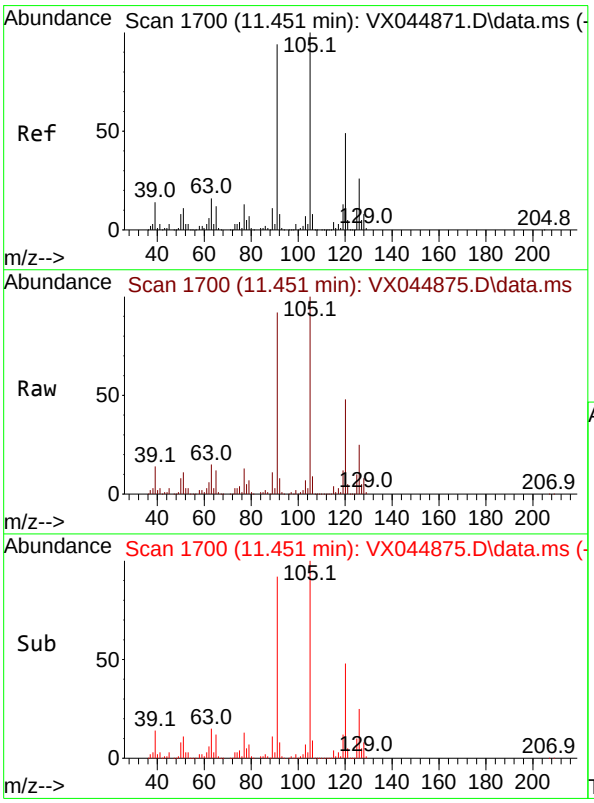
Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

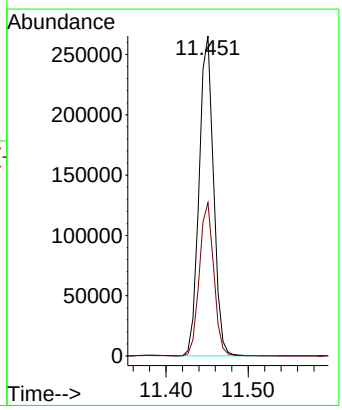
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

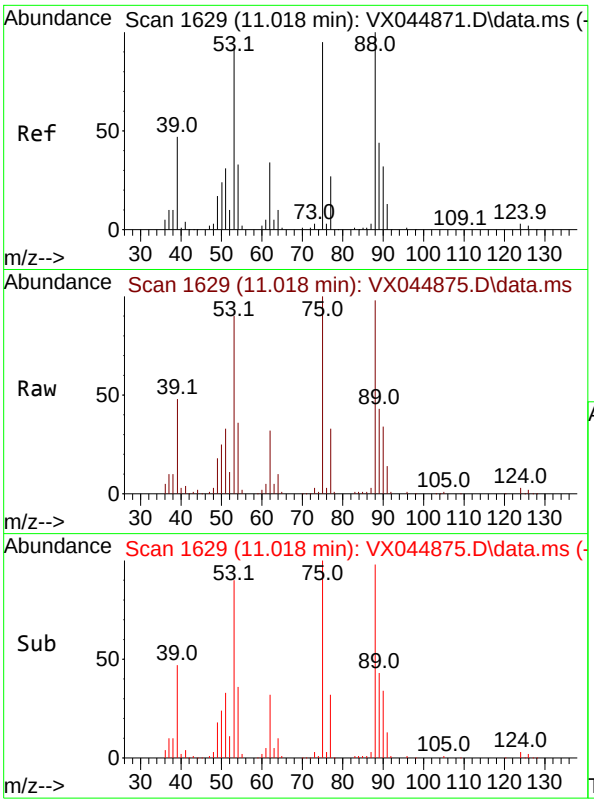


#80
1,3,5-Trimethylbenzene
Concen: 50.956 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 323251

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 52.665 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

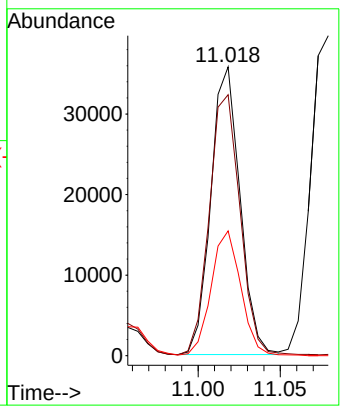
Tgt Ion: 75 Resp: 4407

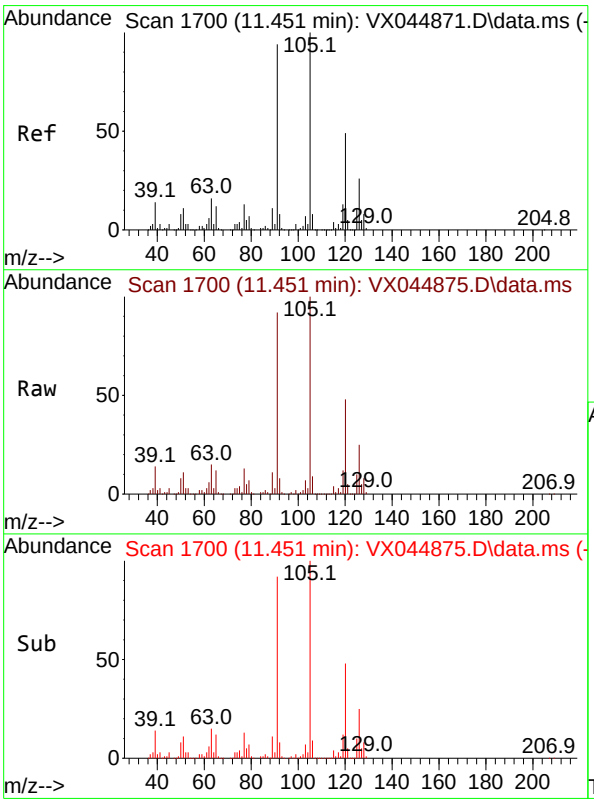
Ion	Ratio	Lower	Upper
75	100		
53	96.9	78.0	117.0
89	44.3	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

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

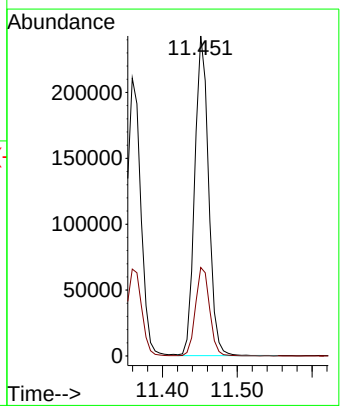


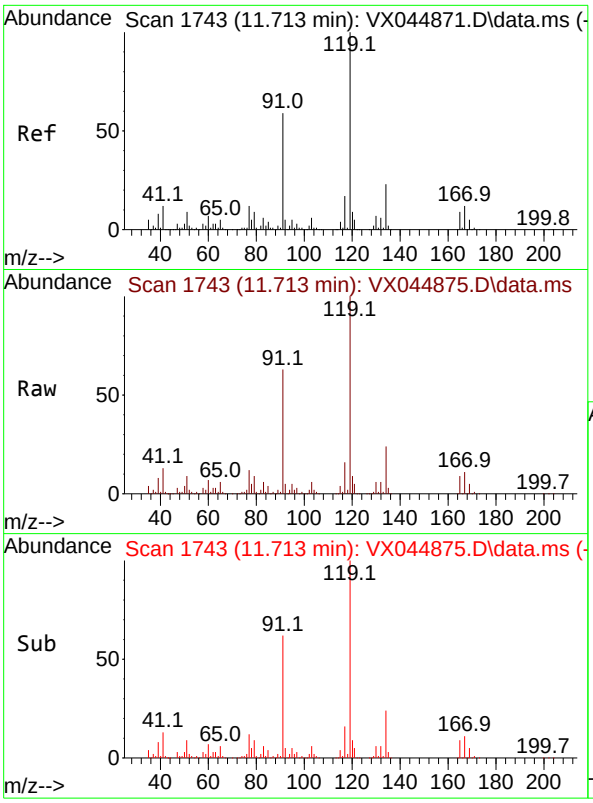


#82
4-Chlorotoluene
Concen: 50.872 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 312112

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.2	42.6

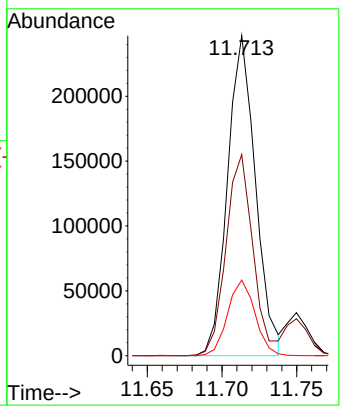




#83
tert-Butylbenzene
Concen: 50.139 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:119 Resp: 32177

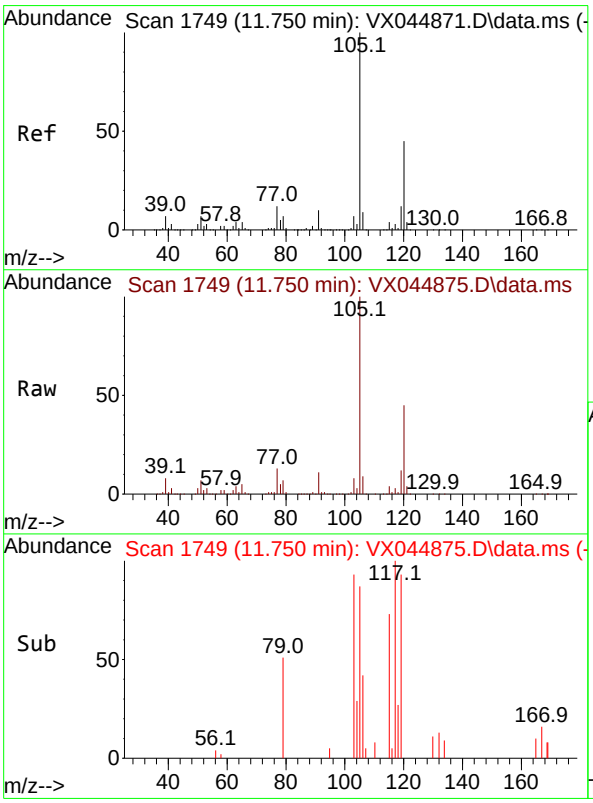
Ion	Ratio	Lower	Upper
119	100		
91	60.7	29.1	87.4
134	23.0	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

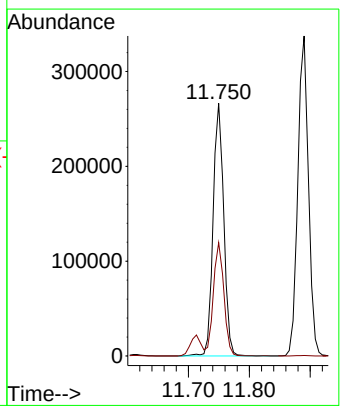
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

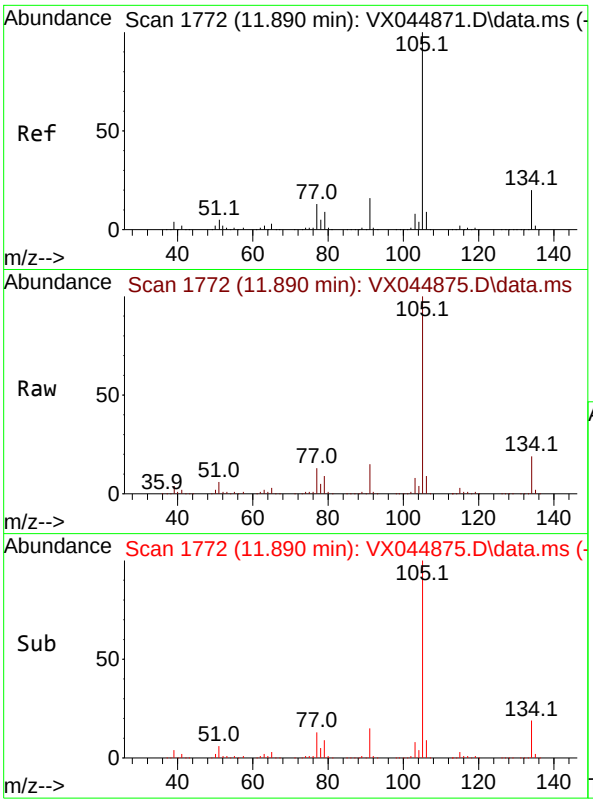


#84
1,2,4-Trimethylbenzene
Concen: 51.593 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 323035

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.4	67.0

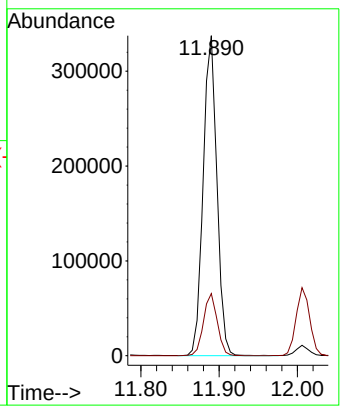




#85
sec-Butylbenzene
Concen: 51.617 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 41019

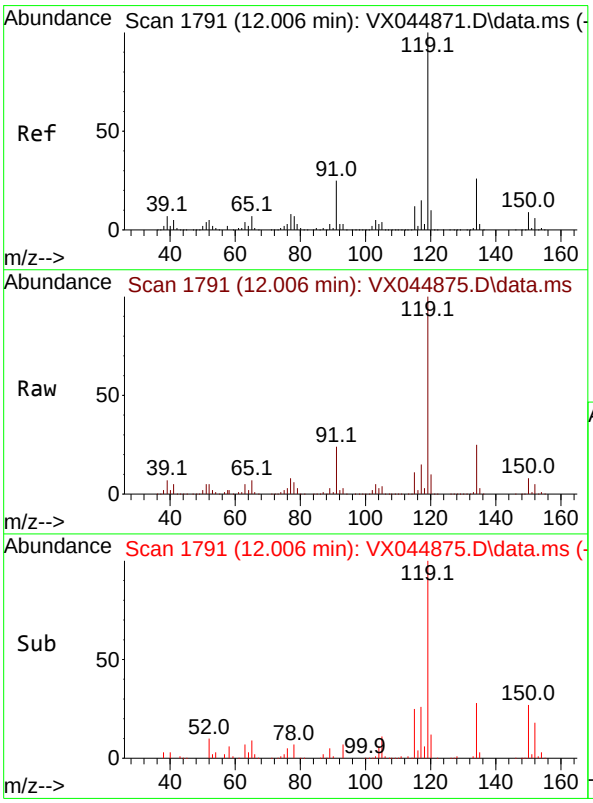
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

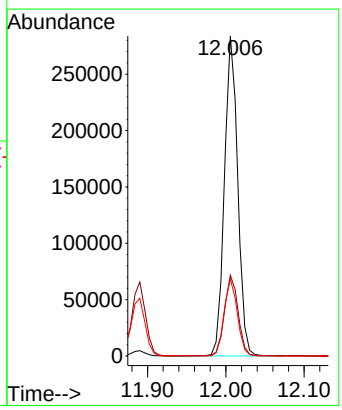
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

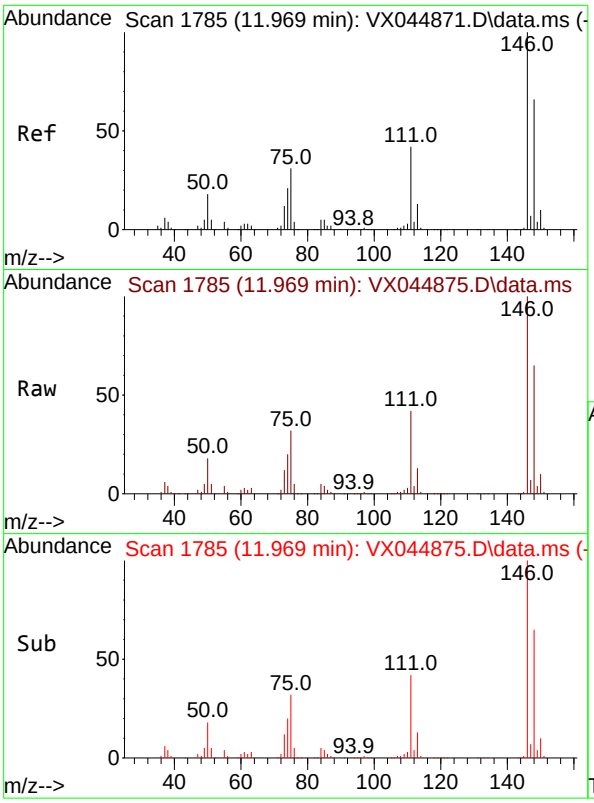


#86
p-Isopropyltoluene
Concen: 52.581 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:119 Resp: 336027

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.0	38.9
91	24.0	12.1	36.3

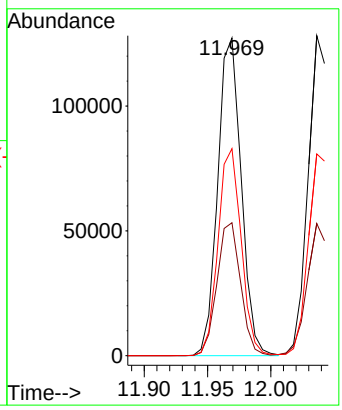




#87
1,3-Dichlorobenzene
Concen: 50.475 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:146 Resp: 16450

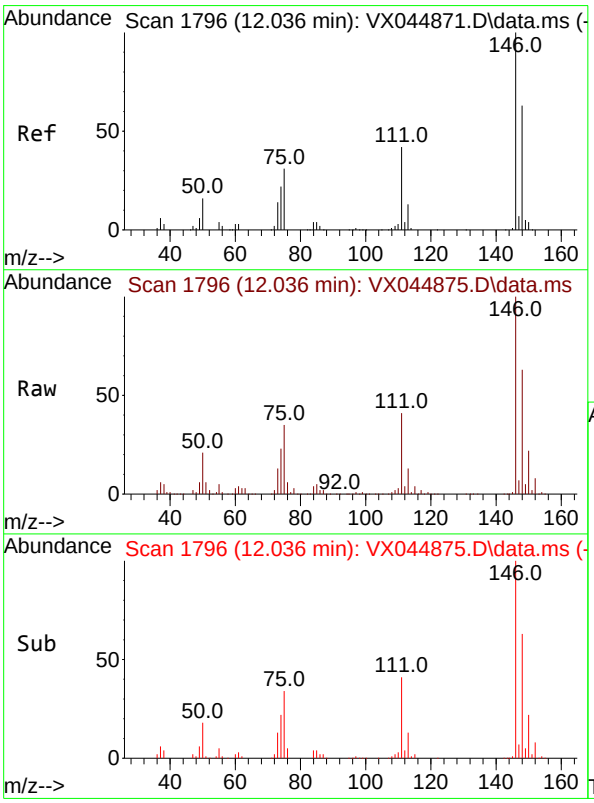
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	64.3	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

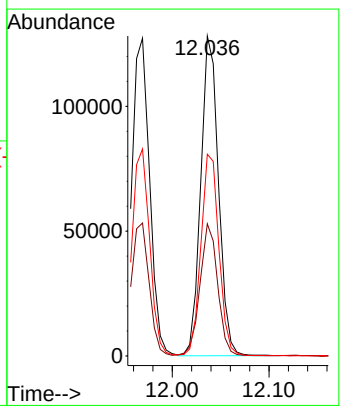
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

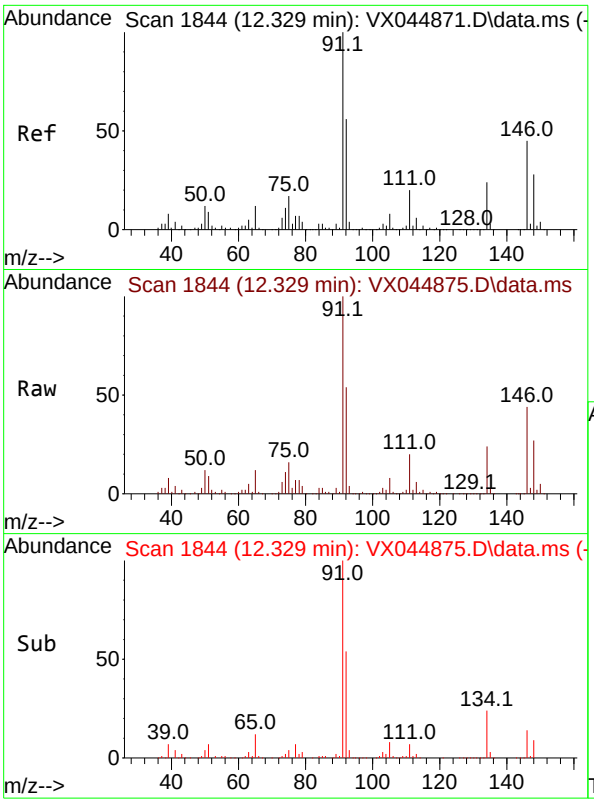


#88
1,4-Dichlorobenzene
Concen: 49.526 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:146 Resp: 163203

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.4	61.3
148	64.2	32.0	96.0

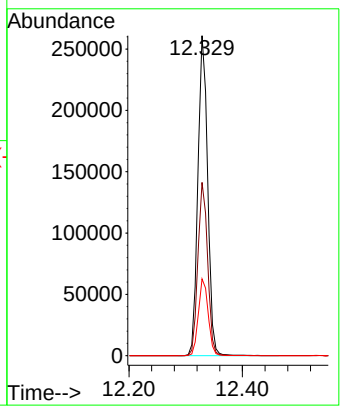




#89
n-Butylbenzene
Concen: 55.142 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 31176

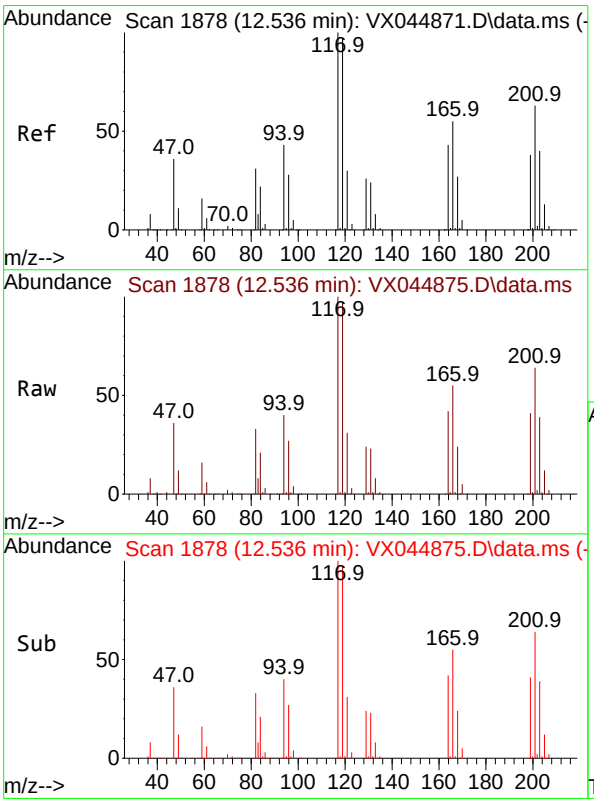
Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.6
134	24.1	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

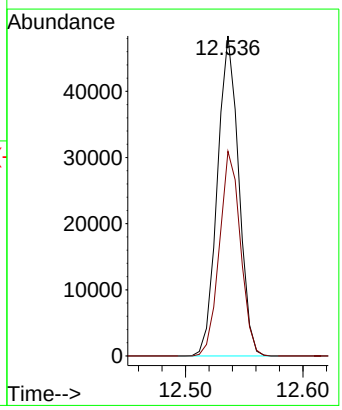
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

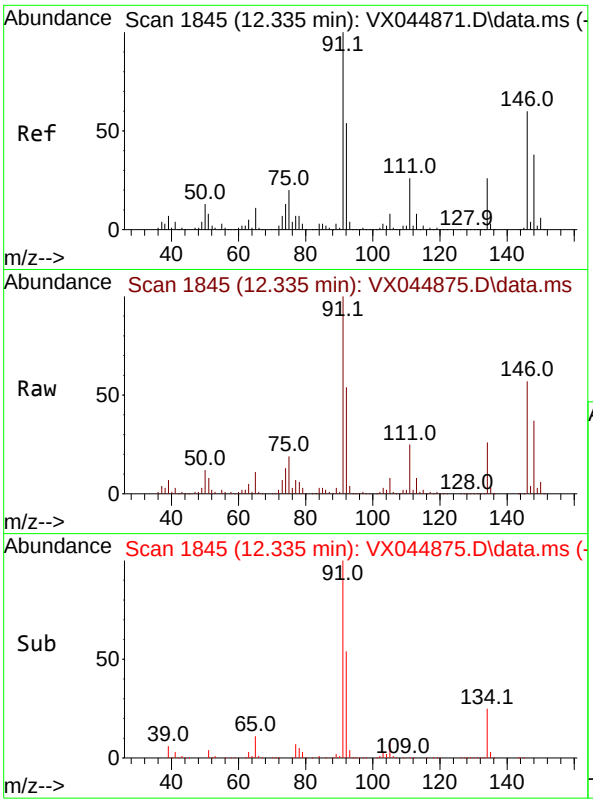


#90
Hexachloroethane
Concen: 50.990 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 61016

Ion	Ratio	Lower	Upper
117	100		
201	63.1	32.5	97.5

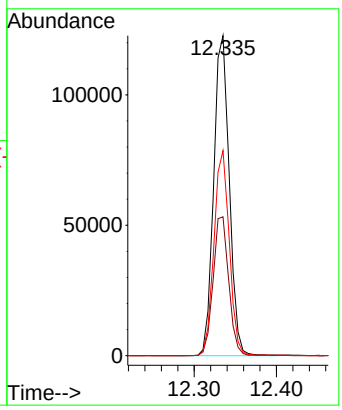




#91
1,2-Dichlorobenzene
Concen: 50.447 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:146 Resp: 16159

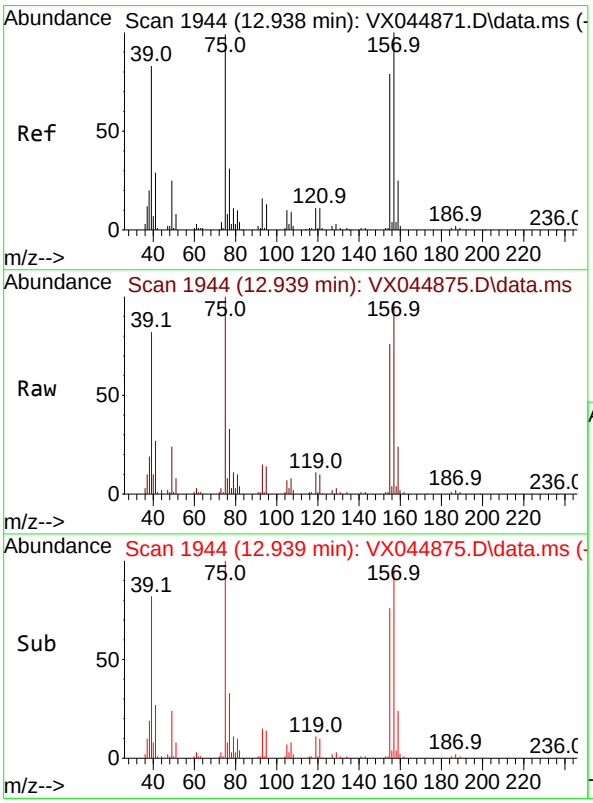
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.8	65.4
148	63.3	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations
APPROVED

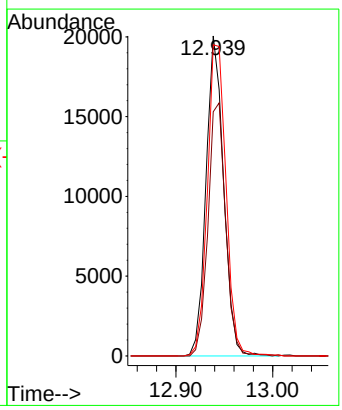
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

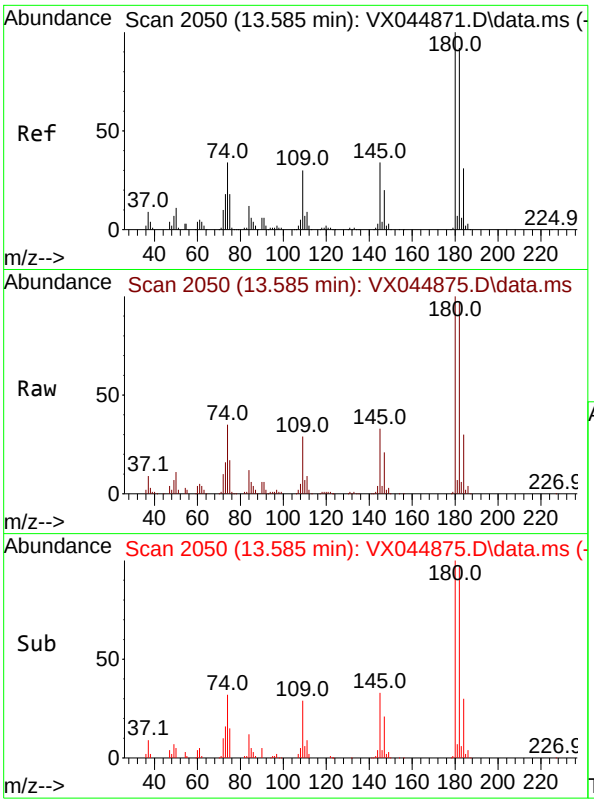


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.684 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 25339

Ion	Ratio	Lower	Upper
75	100		
155	79.5	40.5	121.4
157	103.5	51.4	154.3

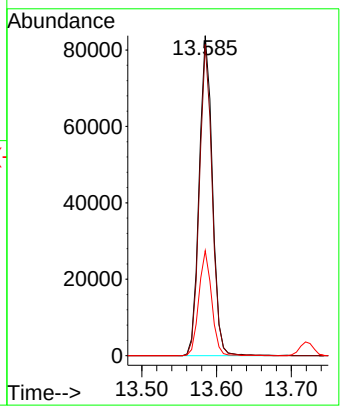




#93
1,2,4-Trichlorobenzene
Concen: 52.726 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:180 Resp: 10219

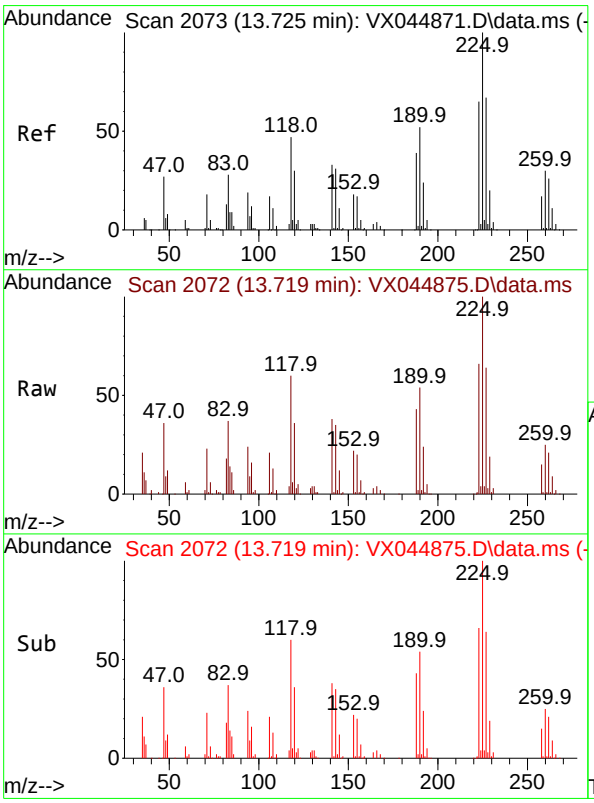
Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.6	142.8
145	31.9	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

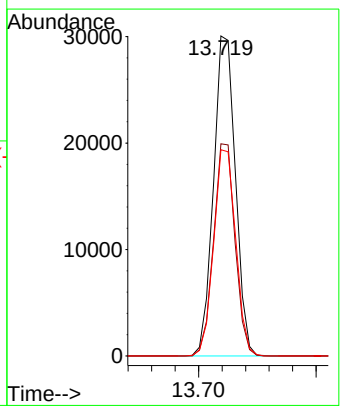
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

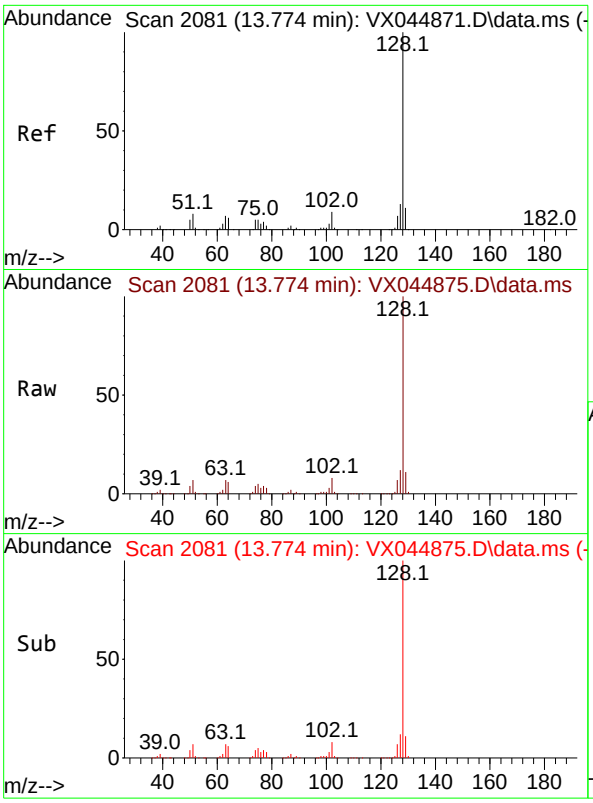


#94
Hexachlorobutadiene
Concen: 50.683 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:225 Resp: 38998

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.4	94.2
227	64.8	32.3	96.8

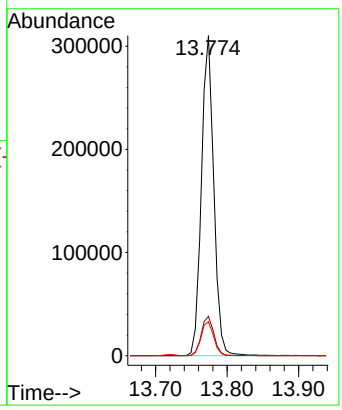




#95
Naphthalene
Concen: 53.033 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:128 Resp: 37157

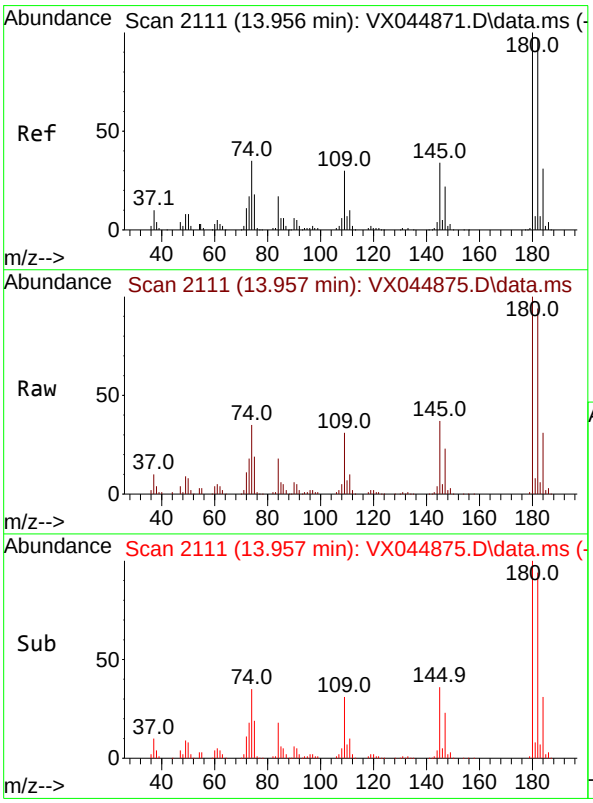
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.9	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Manual Integrations APPROVED

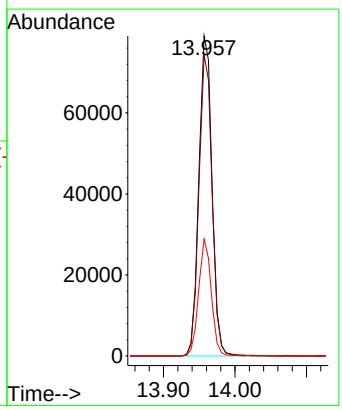
Reviewed By :John Carlone 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.575 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:180 Resp: 100730

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.6
145	35.2	17.1	51.3



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	106	0.00
2	T	Dichlorodifluoromethane	0.701	0.690	1.6	105	0.00
3	P	Chloromethane	0.854	0.812	4.9	102	0.00
4	C	Vinyl Chloride	0.827	0.778	5.9#	102	0.00
5	T	Bromomethane	0.247	0.231	6.5	99	0.00
6	T	Chloroethane	0.307	0.279	9.1	87	0.00
7	T	Trichlorofluoromethane	1.046	1.016	2.9	105	0.00
8	T	Diethyl Ether	0.379	0.361	4.7	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.639	-1.1	109	0.00
10	T	Methyl Iodide	0.819	0.820	-0.1	103	0.00
11	T	Tert butyl alcohol	0.136	0.137	-0.7	107	0.00
12	CM	1,1-Dichloroethene	0.644	0.618	4.0#	104	0.00
13	T	Acrolein	0.140	0.135	3.6	101	0.00
14	T	Allyl chloride	1.165	1.141	2.1	105	0.00
15	T	Acrylonitrile	0.363	0.365	-0.6	102	0.00
16	T	Acetone	0.294	0.303	-3.1	110	0.00
17	T	Carbon Disulfide	1.767	1.749	1.0	105	0.00
18	T	Methyl Acetate	0.928	0.927	0.1	104	0.00
19	T	Methyl tert-butyl Ether	2.050	2.028	1.1	105	0.00
20	T	Methylene Chloride	0.721	0.692	4.0	104	0.00
21	T	trans-1,2-Dichloroethene	0.634	0.623	1.7	103	0.00
22	T	Diisopropyl ether	2.203	2.210	-0.3	105	0.00
23	T	Vinyl Acetate	1.796	1.850	-3.0	106	0.00
24	P	1,1-Dichloroethane	1.233	1.216	1.4	105	0.00
25	T	2-Butanone	0.478	0.493	-3.1	104	0.00
26	T	2,2-Dichloropropane	0.978	0.983	-0.5	110	0.00
27	T	cis-1,2-Dichloroethene	0.762	0.754	1.0	106	0.00
28	T	Bromochloromethane	0.593	0.536	9.6	98	0.00
29	T	Tetrahydrofuran	0.317	0.321	-1.3	104	0.00
30	C	Chloroform	1.196	1.157	3.3#	105	0.00
31	T	Cyclohexane	1.137	1.119	1.6	106	0.00
32	T	1,1,1-Trichloroethane	1.014	0.990	2.4	105	0.00
33	S	1,2-Dichloroethane-d4	0.732	0.704	3.8	103	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35	S	Dibromofluoromethane	0.325	0.320	1.5	105	0.00
36	T	1,1-Dichloropropene	0.469	0.457	2.6	103	0.00
37	T	Ethyl Acetate	0.522	0.514	1.5	102	0.00
38	T	Carbon Tetrachloride	0.460	0.451	2.0	104	0.00
39	T	Methylcyclohexane	0.606	0.646	-6.6	109	0.00
40	TM	Benzene	1.465	1.462	0.2	104	0.00
41	T	Methacrylonitrile	0.279	0.300	-7.5	104	0.00
42	TM	1,2-Dichloroethane	0.467	0.471	-0.9	105	0.00
43	T	Isopropyl Acetate	0.842	0.873	-3.7	104	0.00
44	TM	Trichloroethene	0.335	0.334	0.3	105	0.00
45	C	1,2-Dichloropropane	0.364	0.367	-0.8#	105	0.00
46	T	Dibromomethane	0.253	0.250	1.2	103	0.00
47	T	Bromodichloromethane	0.489	0.499	-2.0	105	0.00
48	T	Methyl methacrylate	0.397	0.420	-5.8	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	101	0.00
50	S	Toluene-d8	1.229	1.221	0.7	103	0.00
51	T	4-Methyl-2-Pentanone	0.512	0.543	-6.1	103	0.00
52	CM	Toluene	0.872	0.884	-1.4#	103	0.00
53	T	t-1,3-Dichloropropene	0.495	0.532	-7.5	109	0.00
54	T	cis-1,3-Dichloropropene	0.552	0.585	-6.0	106	0.00
55	T	1,1,2-Trichloroethane	0.335	0.341	-1.8	105	0.00
56	T	Ethyl methacrylate	0.542	0.586	-8.1	106	0.00
57	T	1,3-Dichloropropane	0.587	0.597	-1.7	103	0.00
58	T	2-Chloroethyl Vinyl ether	0.266	0.302	-13.5	110	0.00
59	T	2-Hexanone	0.369	0.398	-7.9	103	0.00
60	T	Dibromochloromethane	0.359	0.371	-3.3	104	0.00
61	T	1,2-Dibromoethane	0.340	0.350	-2.9	105	0.00
62	S	4-Bromofluorobenzene	0.414	0.429	-3.6	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.315	0.312	1.0	105	0.00
65	PM	Chlorobenzene	1.074	1.094	-1.9	104	0.00
66	T	1,1,1,2-Tetrachloroethane	0.346	0.354	-2.3	104	0.00
67	C	Ethyl Benzene	1.895	1.949	-2.8#	105	0.00
68	T	m/p-Xylenes	0.699	0.729	-4.3	105	0.00
69	T	o-Xylene	0.701	0.713	-1.7	105	0.00
70	T	Styrene	1.130	1.210	-7.1	105	0.00
71	P	Bromoform	0.258	0.279	-8.1	103	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73	T	Isopropylbenzene	4.026	4.020	0.1	104	0.00
74	T	N-amyl acetate	1.822	1.917	-5.2	106	0.00
75	P	1,1,2,2-Tetrachloroethane	1.383	1.337	3.3	103	0.00
76	T	1,2,3-Trichloropropane	1.109	1.101	0.7	104	0.00
77	T	Bromobenzene	0.913	0.908	0.5	104	0.00
78	T	n-propylbenzene	4.647	4.776	-2.8	106	0.00
79	T	2-Chlorotoluene	2.856	2.803	1.9	103	0.00
80	T	1,3,5-Trimethylbenzene	3.267	3.329	-1.9	105	0.00
81	T	trans-1,4-Dichloro-2-butene	0.431	0.454	-5.3	109	0.00
82	T	4-Chlorotoluene	3.160	3.215	-1.7	105	0.00
83	T	tert-Butylbenzene	3.305	3.314	-0.3	105	0.00
84	T	1,2,4-Trimethylbenzene	3.225	3.327	-3.2	104	0.00
85	T	sec-Butylbenzene	4.093	4.225	-3.2	107	0.00
86	T	p-Isopropyltoluene	3.291	3.461	-5.2	107	0.00
87	T	1,3-Dichlorobenzene	1.678	1.694	-1.0	106	0.00
88	T	1,4-Dichlorobenzene	1.697	1.681	0.9	105	0.00
89	T	n-Butylbenzene	2.912	3.211	-10.3	108	0.00
90	T	Hexachloroethane	0.616	0.628	-1.9	107	0.00
91	T	1,2-Dichlorobenzene	1.650	1.664	-0.8	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.252	0.261	-3.6	106	0.00
93	T	1,2,4-Trichlorobenzene	0.998	1.053	-5.5	109	0.00
94	T	Hexachlorobutadiene	0.396	0.402	-1.5	110	0.00
95	T	Naphthalene	3.608	3.827	-6.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.006	1.038	-3.2	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	106	0.00
2	T	Dichlorodifluoromethane	50.000	49.173	1.7	105	0.00
3	P	Chloromethane	50.000	47.590	4.8	102	0.00
4	C	Vinyl Chloride	50.000	47.033	5.9#	102	0.00
5	T	Bromomethane	50.000	46.719	6.6	99	0.00
6	T	Chloroethane	50.000	42.198	15.6	87	0.00
7	T	Trichlorofluoromethane	50.000	48.558	2.9	105	0.00
8	T	Diethyl Ether	50.000	47.544	4.9	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.588	-1.2	109	0.00
10	T	Methyl Iodide	50.000	50.082	-0.2	103	0.00
11	T	Tert butyl alcohol	250.000	251.791	-0.7	107	0.00
12	CM	1,1-Dichloroethene	50.000	47.935	4.1#	104	0.00
13	T	Acrolein	250.000	240.879	3.6	101	0.00
14	T	Allyl chloride	50.000	48.976	2.0	105	0.00
15	T	Acrylonitrile	250.000	251.537	-0.6	102	0.00
16	T	Acetone	250.000	257.198	-2.9	110	0.00
17	T	Carbon Disulfide	50.000	49.472	1.1	105	0.00
18	T	Methyl Acetate	50.000	49.920	0.2	104	0.00
19	T	Methyl tert-butyl Ether	50.000	49.453	1.1	105	0.00
20	T	Methylene Chloride	50.000	47.978	4.0	104	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.129	1.7	103	0.00
22	T	Diisopropyl ether	50.000	50.138	-0.3	105	0.00
23	T	Vinyl Acetate	250.000	257.465	-3.0	106	0.00
24	P	1,1-Dichloroethane	50.000	49.329	1.3	105	0.00
25	T	2-Butanone	250.000	258.175	-3.3	104	0.00
26	T	2,2-Dichloropropane	50.000	50.285	-0.6	110	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.493	1.0	106	0.00
28	T	Bromochloromethane	50.000	45.250	9.5	98	0.00
29	T	Tetrahydrofuran	250.000	253.318	-1.3	104	0.00
30	C	Chloroform	50.000	48.393	3.2#	105	0.00
31	T	Cyclohexane	50.000	49.211	1.6	106	0.00
32	T	1,1,1-Trichloroethane	50.000	48.825	2.3	105	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.061	3.9	103	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35	S	Dibromofluoromethane	50.000	49.173	1.7	105	0.00
36	T	1,1-Dichloropropene	50.000	48.702	2.6	103	0.00
37	T	Ethyl Acetate	50.000	49.300	1.4	102	0.00
38	T	Carbon Tetrachloride	50.000	49.083	1.8	104	0.00
39	T	Methylcyclohexane	50.000	53.254	-6.5	109	0.00
40	TM	Benzene	50.000	49.919	0.2	104	0.00
41	T	Methacrylonitrile	50.000	53.741	-7.5	104	0.00
42	TM	1,2-Dichloroethane	50.000	50.410	-0.8	105	0.00
43	T	Isopropyl Acetate	50.000	51.798	-3.6	104	0.00
44	TM	Trichloroethene	50.000	49.917	0.2	105	0.00
45	C	1,2-Dichloropropane	50.000	50.387	-0.8#	105	0.00
46	T	Dibromomethane	50.000	49.540	0.9	103	0.00
47	T	Bromodichloromethane	50.000	50.980	-2.0	105	0.00
48	T	Methyl methacrylate	50.000	52.848	-5.7	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1021.138	-2.1	101	0.00
50	S	Toluene-d8	50.000	49.649	0.7	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	265.112	-6.0	103	0.00
52	CM	Toluene	50.000	50.680	-1.4#	103	0.00
53	T	t-1,3-Dichloropropene	50.000	53.731	-7.5	109	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.986	-6.0	106	0.00
55	T	1,1,2-Trichloroethane	50.000	50.811	-1.6	105	0.00
56	T	Ethyl methacrylate	50.000	54.068	-8.1	106	0.00
57	T	1,3-Dichloropropane	50.000	50.852	-1.7	103	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	284.352	-13.7	110	0.00
59	T	2-Hexanone	250.000	269.951	-8.0	103	0.00
60	T	Dibromochloromethane	50.000	51.673	-3.3	104	0.00
61	T	1,2-Dibromoethane	50.000	51.436	-2.9	105	0.00
62	S	4-Bromofluorobenzene	50.000	51.786	-3.6	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	49.424	1.2	105	0.00
65	PM	Chlorobenzene	50.000	50.952	-1.9	104	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.205	-2.4	104	0.00
67	C	Ethyl Benzene	50.000	51.415	-2.8#	105	0.00
68	T	m/p-Xylenes	100.000	104.282	-4.3	105	0.00
69	T	o-Xylene	50.000	50.804	-1.6	105	0.00
70	T	Styrene	50.000	53.521	-7.0	105	0.00
71	P	Bromoform	50.000	53.997	-8.0	103	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73	T	Isopropylbenzene	50.000	49.921	0.2	104	0.00
74	T	N-amyl acetate	50.000	52.621	-5.2	106	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.331	3.3	103	0.00
76	T	1,2,3-Trichloropropane	50.000	49.659	0.7	104	0.00
77	T	Bromobenzene	50.000	49.725	0.5	104	0.00
78	T	n-propylbenzene	50.000	51.386	-2.8	106	0.00
79	T	2-Chlorotoluene	50.000	49.065	1.9	103	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.956	-1.9	105	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.665	-5.3	109	0.00
82	T	4-Chlorotoluene	50.000	50.872	-1.7	105	0.00
83	T	tert-Butylbenzene	50.000	50.139	-0.3	105	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.593	-3.2	104	0.00
85	T	sec-Butylbenzene	50.000	51.617	-3.2	107	0.00
86	T	p-Isopropyltoluene	50.000	52.581	-5.2	107	0.00
87	T	1,3-Dichlorobenzene	50.000	50.475	-1.0	106	0.00
88	T	1,4-Dichlorobenzene	50.000	49.526	0.9	105	0.00
89	T	n-Butylbenzene	50.000	55.142	-10.3	108	0.00
90	T	Hexachloroethane	50.000	50.990	-2.0	107	0.00
91	T	1,2-Dichlorobenzene	50.000	50.447	-0.9	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.684	-3.4	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.726	-5.5	109	0.00
94	T	Hexachlorobutadiene	50.000	50.683	-1.4	110	0.00
95	T	Naphthalene	50.000	53.033	-6.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.575	-3.2	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG No.: Q1352

Instrument ID: MSVOA_X Calibration Date/Time: 02/14/2025 10:04

Lab File ID: VX044948.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.827	0.803		-2.9	20
1,1-Dichloroethene	0.644	0.637		-1.09	20
2-Butanone	0.478	0.507		6.07	20
Carbon Tetrachloride	0.460	0.493		7.17	20
Chloroform	1.196	1.212		1.34	20
Benzene	1.465	1.515		3.41	20
1,2-Dichloroethane	0.467	0.510		9.21	20
Trichloroethene	0.335	0.353		5.37	20
Tetrachloroethene	0.315	0.332		5.4	20
Chlorobenzene	1.074	1.118	0.3	4.1	20
1,2-Dichloroethane-d4	0.732	0.726		-0.82	20
Dibromofluoromethane	0.325	0.335		3.08	20
Toluene-d8	1.229	1.231		0.16	20
4-Bromofluorobenzene	0.414	0.440		6.28	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\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	111649	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	194847	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	171164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	79140	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81025	49.577	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.160%			
35) Dibromofluoromethane	5.373	113	65208	51.473	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.940%			
50) Toluene-d8	8.640	98	239910	50.081	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.160%			
62) 4-Bromofluorobenzene	11.079	95	85808	53.134	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	83333	53.216	ug/l	100
3) Chloromethane	1.300	50	95413	50.063	ug/l	98
4) Vinyl Chloride	1.373	62	89675	48.568	ug/l	100
5) Bromomethane	1.593	94	31780	57.519	ug/l	98
6) Chloroethane	1.666	64	48225	75.147	ug/l	99
7) Trichlorofluoromethane	1.873	101	122436	52.436	ug/l	99
8) Diethyl Ether	2.129	74	44034	52.000	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.318	101	73285	51.947	ug/l	99
10) Methyl Iodide	2.446	142	96895	52.995	ug/l	98
11) Tert butyl alcohol	2.971	59	74583	245.988	ug/l	99
12) 1,1-Dichloroethene	2.312	96	71069	49.386	ug/l	98
13) Acrolein	2.233	56	85239	272.483	ug/l	99
14) Allyl chloride	2.654	41	130324	50.110	ug/l	98
15) Acrylonitrile	3.056	53	210836	260.443	ug/l	98
16) Acetone	2.379	43	173217	263.641	ug/l	97
17) Carbon Disulfide	2.501	76	182069	46.138	ug/l	100
18) Methyl Acetate	2.696	43	109619	52.872	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	230346	50.309	ug/l	99
20) Methylene Chloride	2.782	84	79188	49.206	ug/l	98
21) trans-1,2-Dichloroethene	3.080	96	70029	49.443	ug/l	92
22) Diisopropyl ether	3.751	45	255981	52.025	ug/l	93
23) Vinyl Acetate	3.715	43	1041556	259.654	ug/l	99
24) 1,1-Dichloroethane	3.599	63	139363	50.620	ug/l	99
25) 2-Butanone	4.550	43	282901	265.167	ug/l	97
26) 2,2-Dichloropropane	4.458	77	108637	49.758	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	85121	50.033	ug/l	99
28) Bromochloromethane	4.885	49	66328	50.132	ug/l	100
29) Tetrahydrofuran	4.989	42	183098	258.456	ug/l	99
30) Chloroform	5.080	83	135270	50.664	ug/l	97
31) Cyclohexane	5.458	56	123125	48.511	ug/l	98
32) 1,1,1-Trichloroethane	5.367	97	114641	50.622	ug/l	99
36) 1,1-Dichloropropene	5.684	75	92569	50.648	ug/l	100
37) Ethyl Acetate	4.702	43	107447	52.854	ug/l	98
38) Carbon Tetrachloride	5.665	117	96084	53.647	ug/l	97
39) Methylcyclohexane	7.372	83	126678	53.611	ug/l	98
40) Benzene	6.025	78	295171	51.720	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.909	41	62502	57.439	ug/l		99
42) 1,2-Dichloroethane	6.080	62	99367	54.630	ug/l		99
43) Isopropyl Acetate	6.330	43	178056	54.238	ug/l		99
44) Trichloroethene	7.116	130	68729	52.686	ug/l		99
45) 1,2-Dichloropropane	7.421	63	73954	52.086	ug/l		98
46) Dibromomethane	7.574	93	52099	52.910	ug/l		99
47) Bromodichloromethane	7.817	83	104667	54.897	ug/l		94
48) Methyl methacrylate	7.683	41	84452	54.559	ug/l		98
49) 1,4-Dioxane	7.659	88	35851	1079.521	ug/l		98
51) 4-Methyl-2-Pentanone	8.567	43	573871	287.542	ug/l		99
52) Toluene	8.714	92	177622	52.259	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	102427	53.088	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	115454	53.670	ug/l		97
55) 1,1,2-Trichloroethane	9.146	97	69992	53.569	ug/l		99
56) Ethyl methacrylate	9.110	69	113350	53.714	ug/l		96
57) 1,3-Dichloropropane	9.305	76	122833	53.730	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	281369	271.549	ug/l		100
59) 2-Hexanone	9.427	43	419224	291.536	ug/l		97
60) Dibromochloromethane	9.518	129	76923	55.049	ug/l		100
61) 1,2-Dibromoethane	9.604	107	70254	53.050	ug/l		99
64) Tetrachloroethene	9.268	164	56785	52.606	ug/l		96
65) Chlorobenzene	10.073	112	191305	52.037	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	63533	53.691	ug/l		99
67) Ethyl Benzene	10.189	91	341272	52.604	ug/l		98
68) m/p-Xylenes	10.299	106	253071	105.747	ug/l		99
69) o-Xylene	10.640	106	125488	52.257	ug/l		100
70) Styrene	10.652	104	212892	55.028	ug/l		99
71) Bromoform	10.799	173	50298	56.956	ug/l	#	98
73) Isopropylbenzene	10.957	105	323452	50.759	ug/l		100
74) N-amyl acetate	10.841	43	151995	52.711	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	108280	49.450	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	89855m	51.210	ug/l		
77) Bromobenzene	11.195	156	74813	51.785	ug/l		97
78) n-propylbenzene	11.299	91	383227	52.104	ug/l		100
79) 2-Chlorotoluene	11.359	91	227346	50.293	ug/l		99
80) 1,3,5-Trimethylbenzene	11.445	105	269593	52.135	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	34484	50.555	ug/l		95
82) 4-Chlorotoluene	11.451	91	260241	52.037	ug/l		100
83) tert-Butylbenzene	11.713	119	271023	51.808	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	273444	53.576	ug/l		98
85) sec-Butylbenzene	11.890	105	345172	53.285	ug/l		99
86) p-Isopropyltoluene	12.006	119	281168	53.974	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	138952	52.302	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	137282	51.107	ug/l		98
89) n-Butylbenzene	12.329	91	259957	56.406	ug/l		100
90) Hexachloroethane	12.536	117	50444	51.715	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	134948	51.683	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	21467	53.715	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	83444	52.814	ug/l		100
94) Hexachlorobutadiene	13.725	225	33686	53.707	ug/l		100
95) Naphthalene	13.774	128	298494	52.263	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	84247	52.918	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

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

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

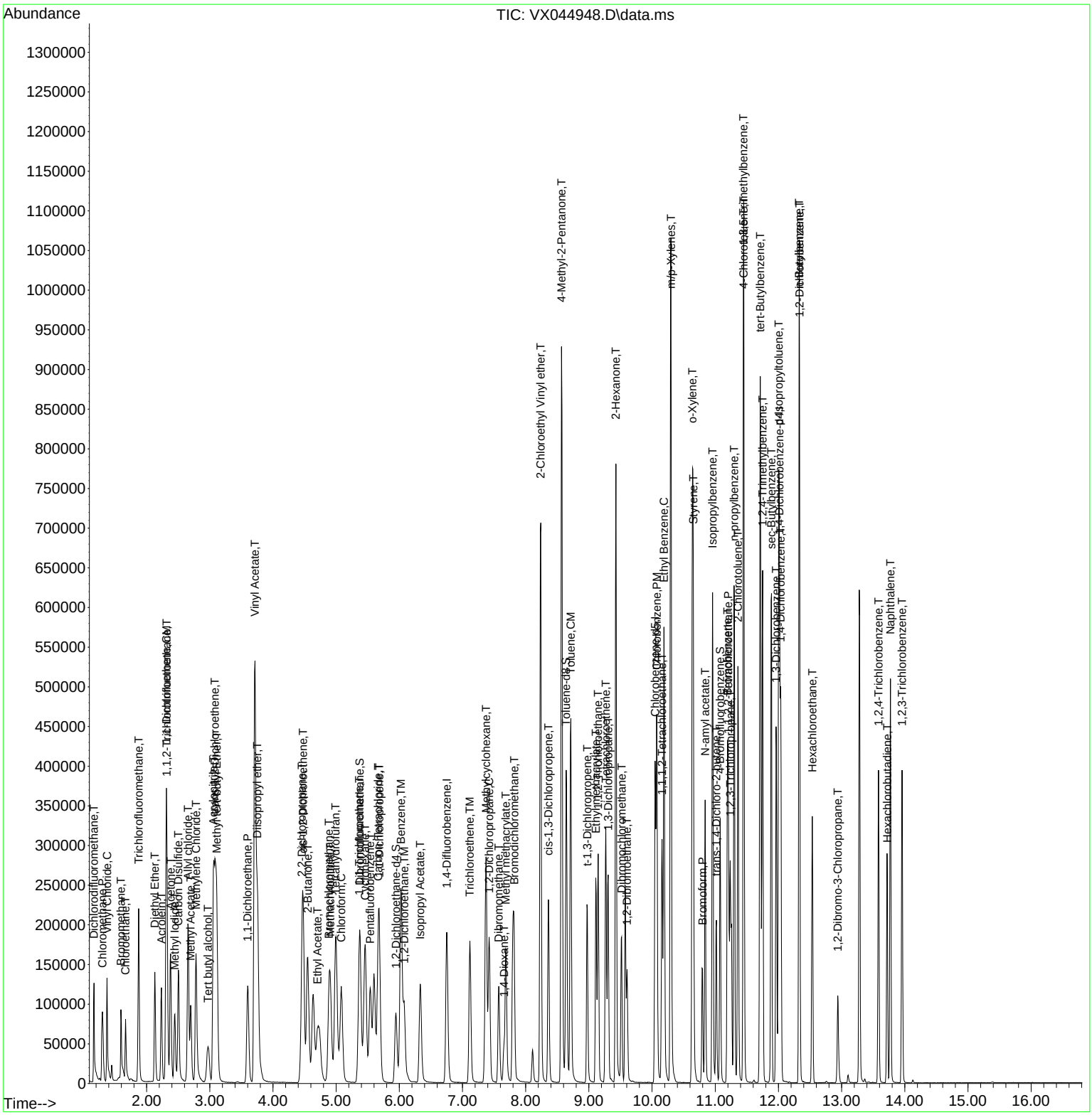
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

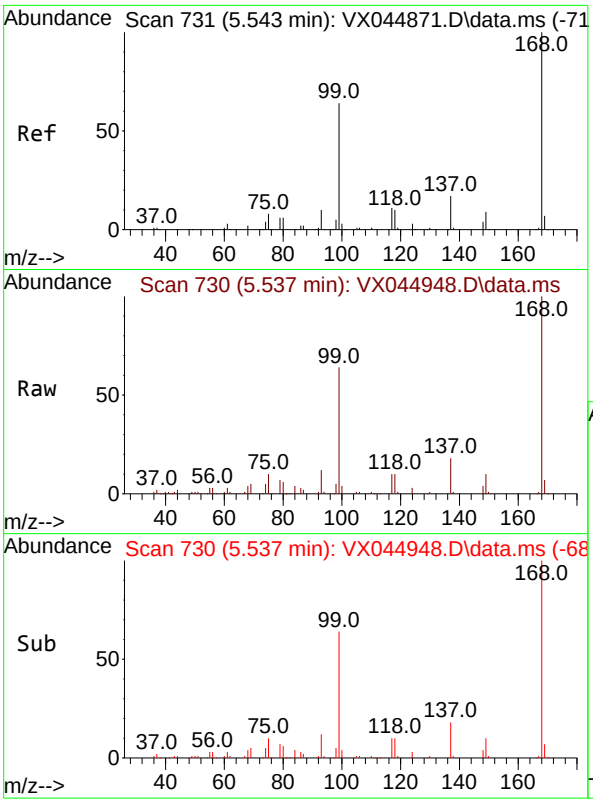
Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

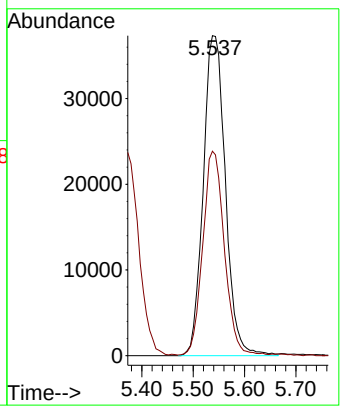




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:168 Resp: 11164

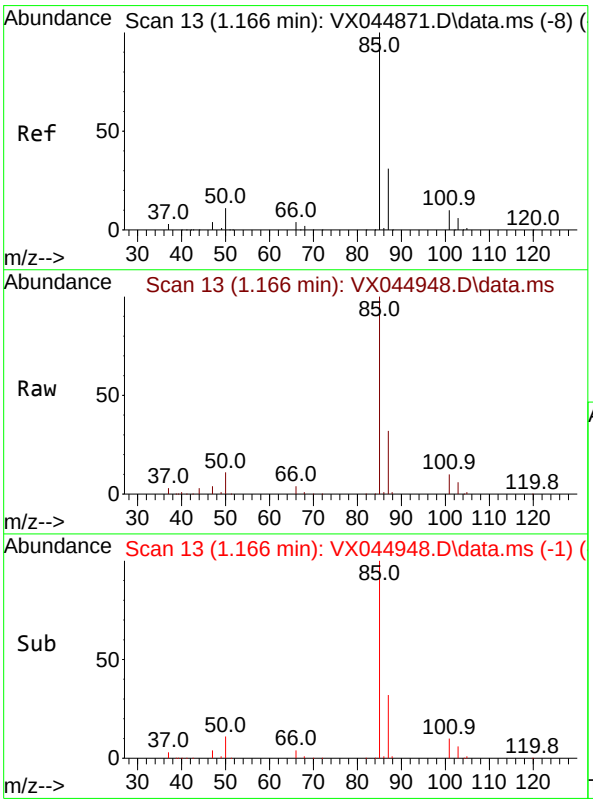
Ion	Ratio	Lower	Upper
168	100		
99	63.7	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

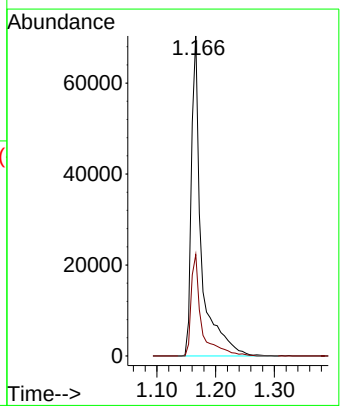
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

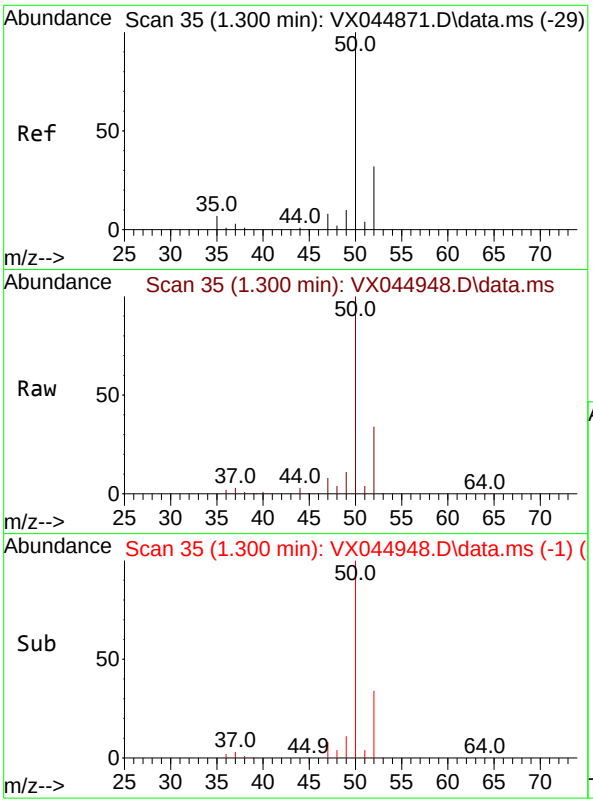


#2
Dichlorodifluoromethane
Concen: 53.216 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 85 Resp: 83333

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3

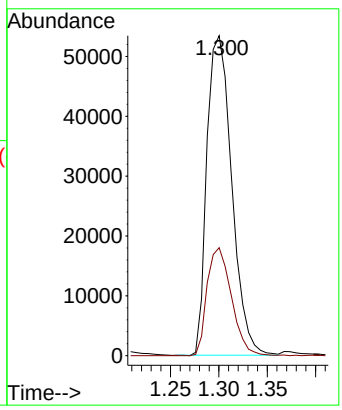




#3
Chloromethane
Concen: 50.063 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 50 Resp: 9541

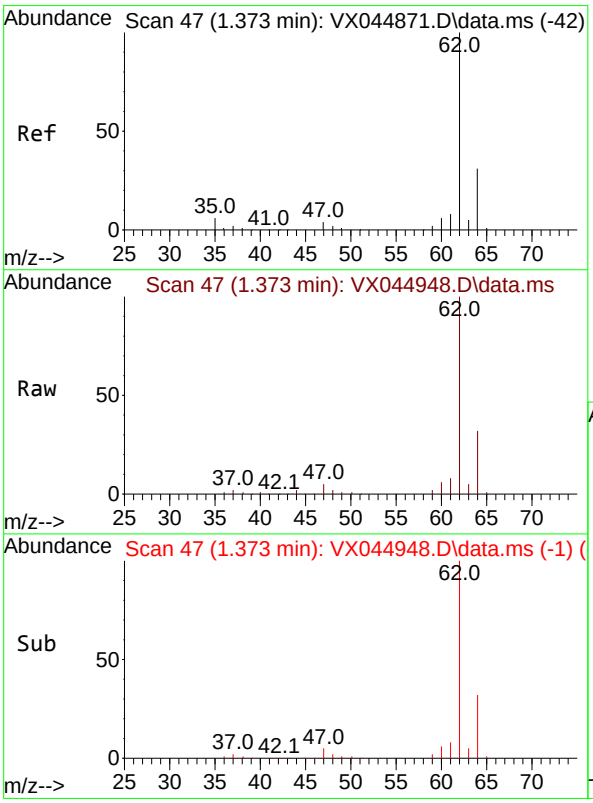
Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

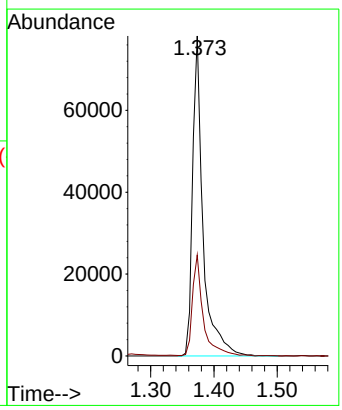
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

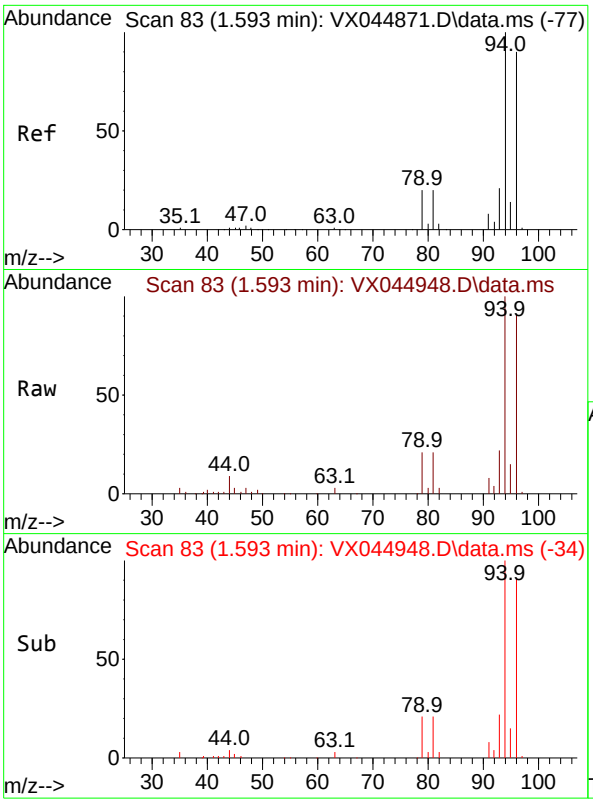


#4
Vinyl Chloride
Concen: 48.568 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 62 Resp: 89675

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.4	38.0

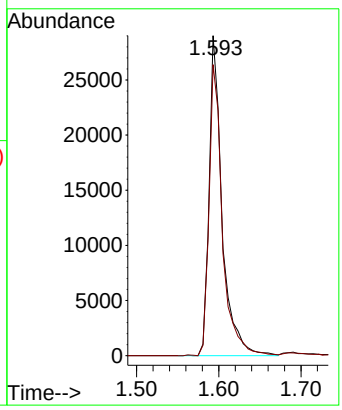




#5
Bromomethane
Concen: 57.519 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 94 Resp: 3178

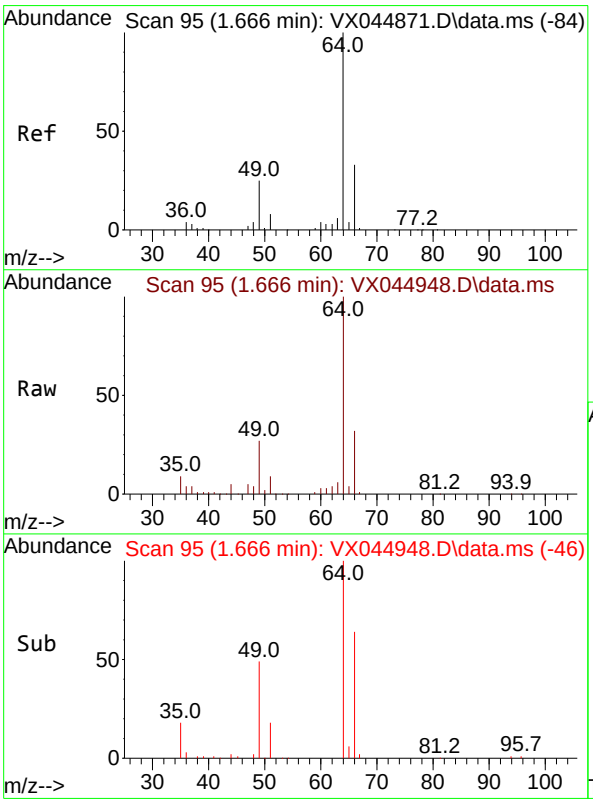
Ion	Ratio	Lower	Upper
94	100		
96	91.0	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

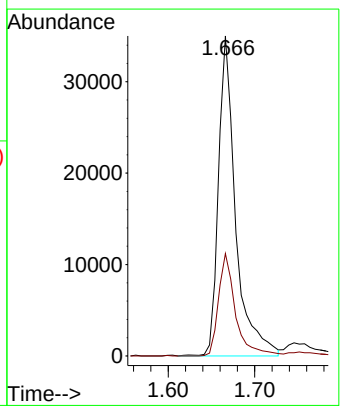
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

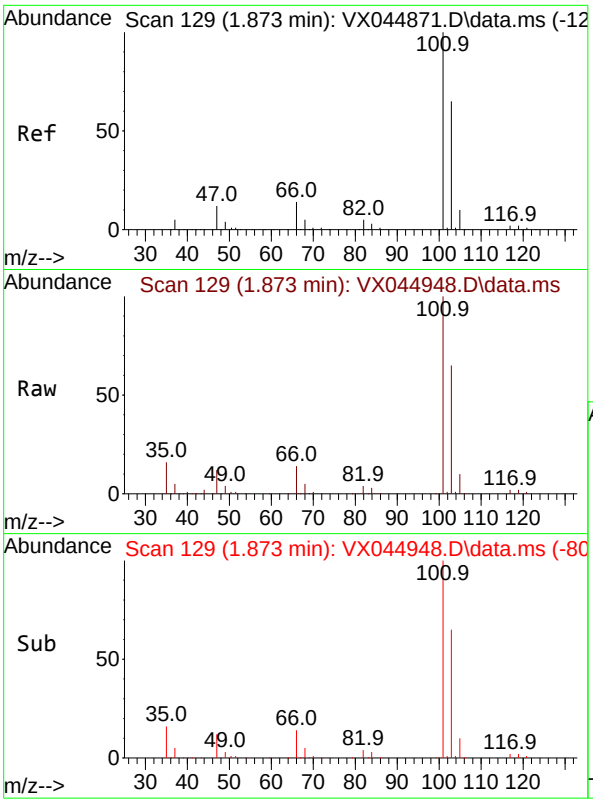


#6
Chloroethane
Concen: 75.147 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 64 Resp: 48225

Ion	Ratio	Lower	Upper
64	100		
66	32.0	25.9	38.9

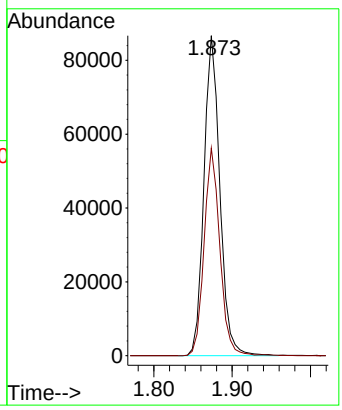




#7
Trichlorofluoromethane
Concen: 52.436 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:101 Resp: 12243

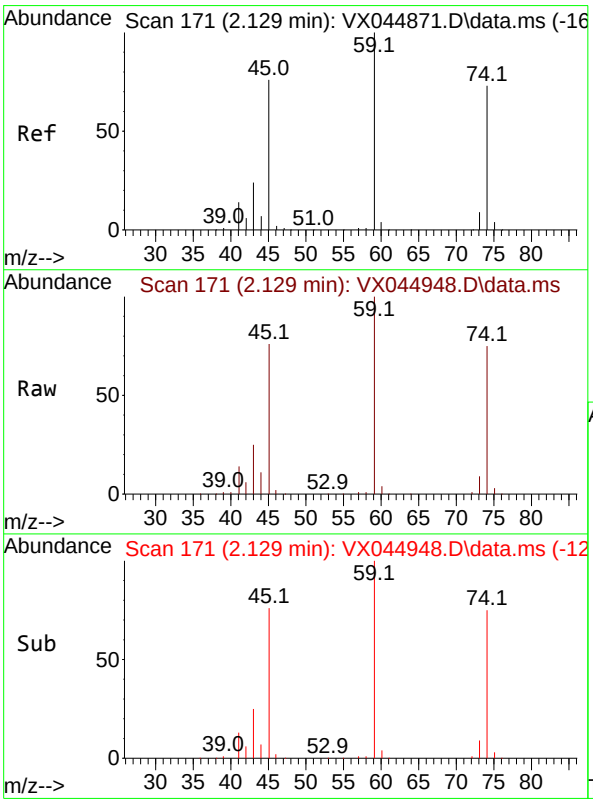
Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

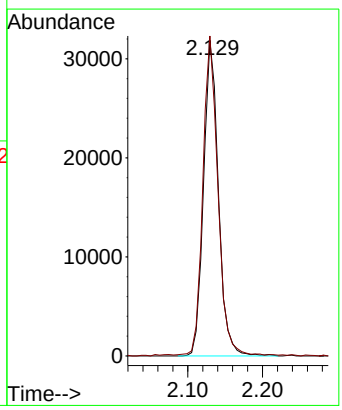
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

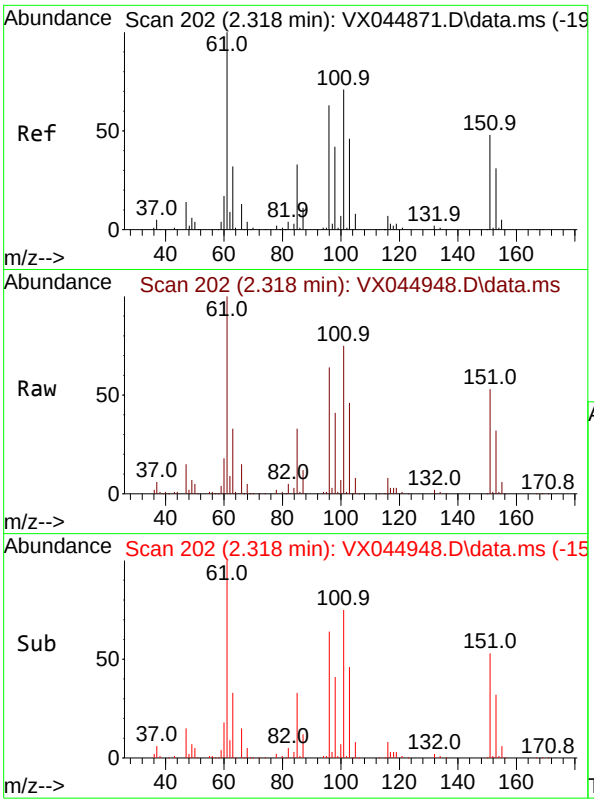


#8
Diethyl Ether
Concen: 52.000 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 74 Resp: 44034

Ion	Ratio	Lower	Upper
74	100		
45	103.4	51.1	153.4

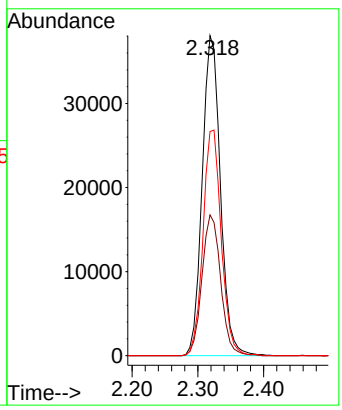




#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.947 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:101 Resp: 7328

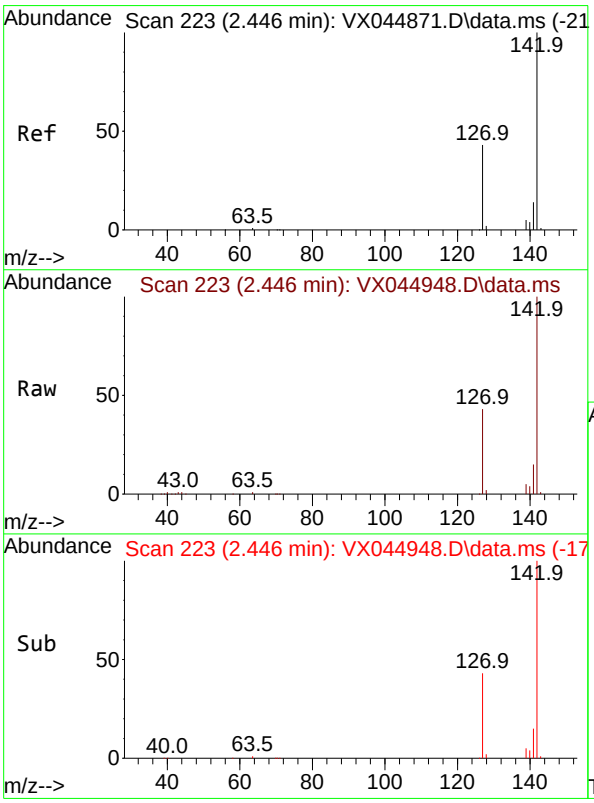
Ion	Ratio	Lower	Upper
101	100		
85	45.1	35.7	53.5
151	70.7	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

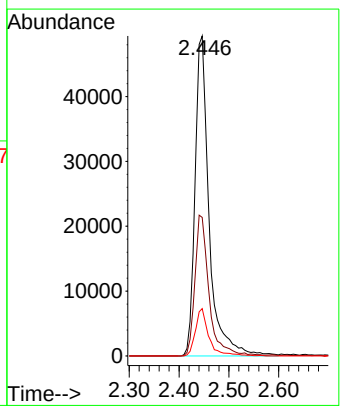
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

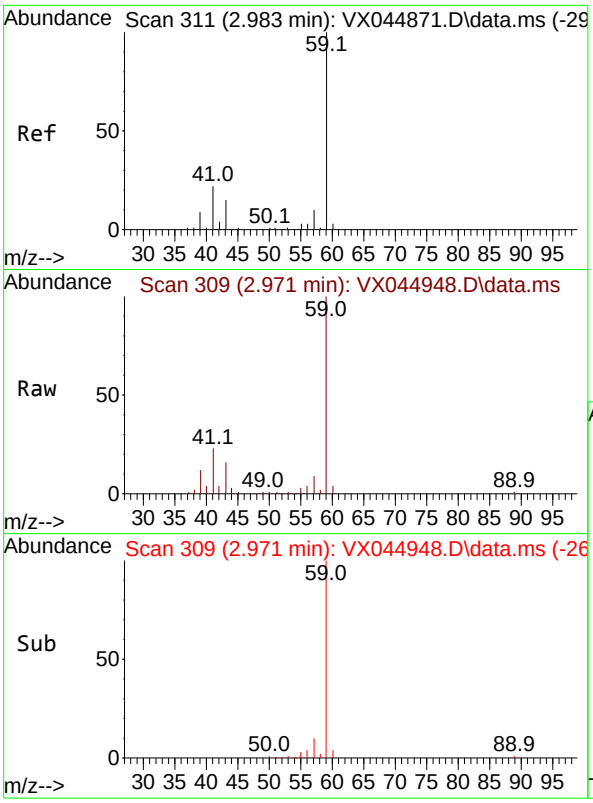


#10
Methyl Iodide
Concen: 52.995 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:142 Resp: 96895

Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.3	51.5
141	14.1	11.4	17.2

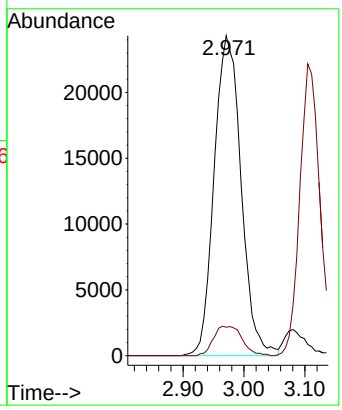




#11
Tert butyl alcohol
Concen: 245.988 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 59 Resp: 7458

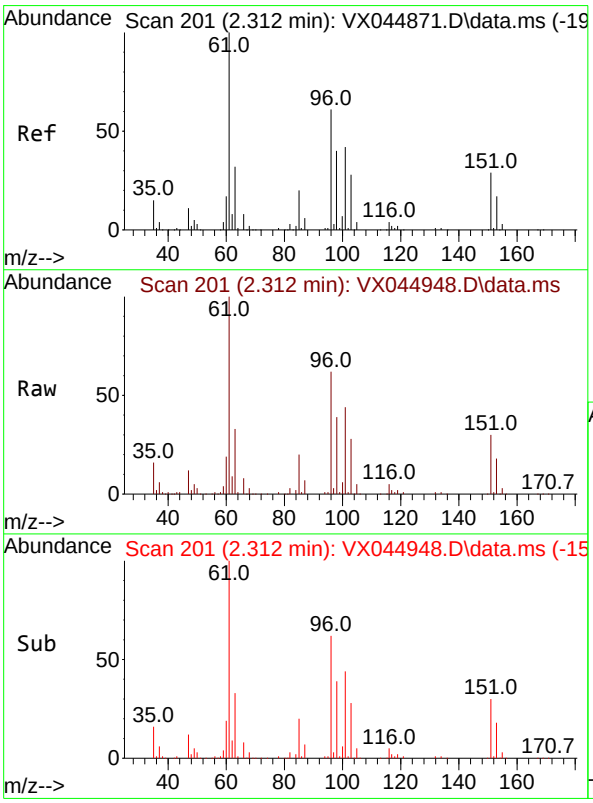
Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

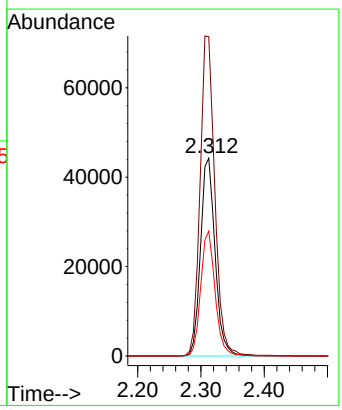
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

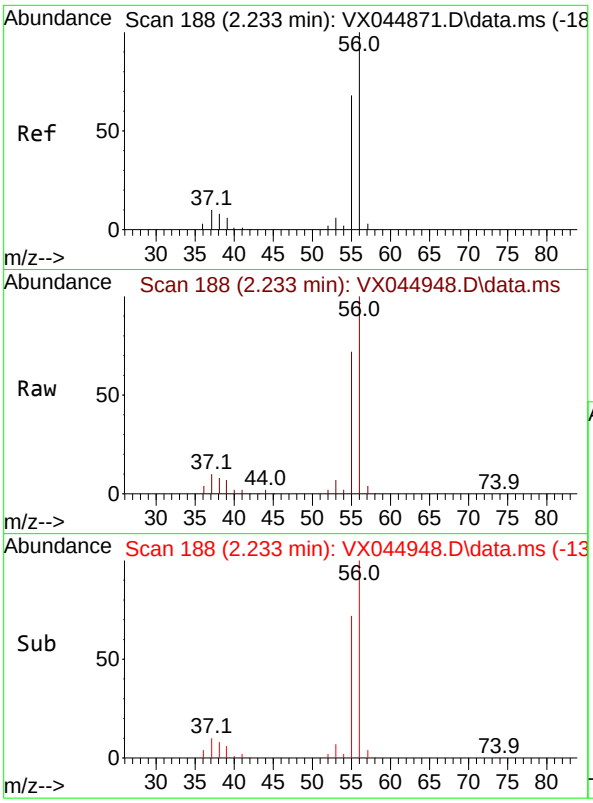


#12
1,1-Dichloroethene
Concen: 49.386 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 96 Resp: 71069

Ion	Ratio	Lower	Upper
96	100		
61	161.4	130.2	195.4
98	63.1	52.2	78.4

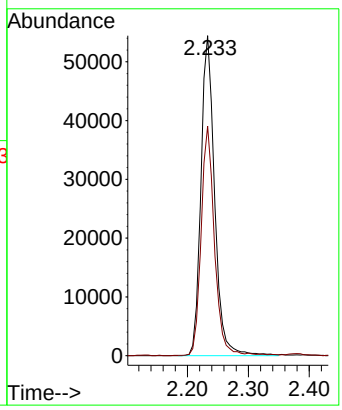




#13
Acrolein
Concen: 272.483 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 56 Resp: 8523

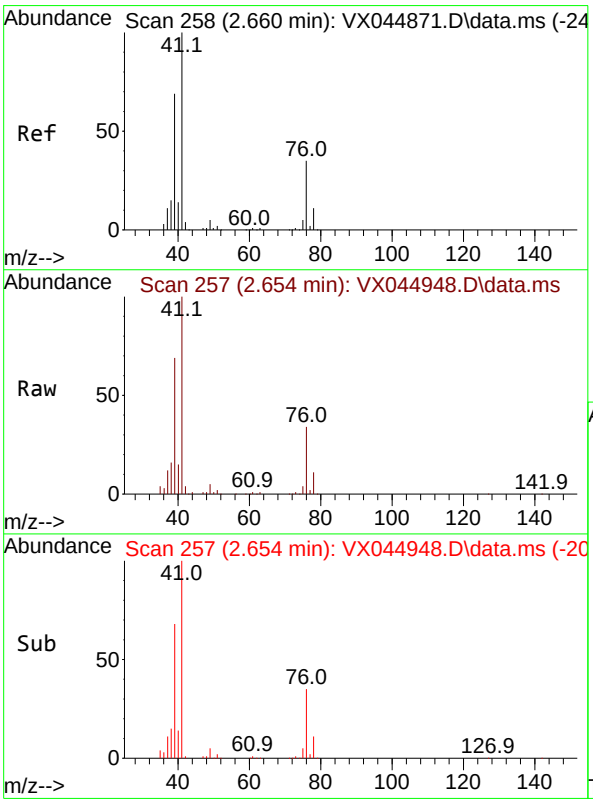
Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

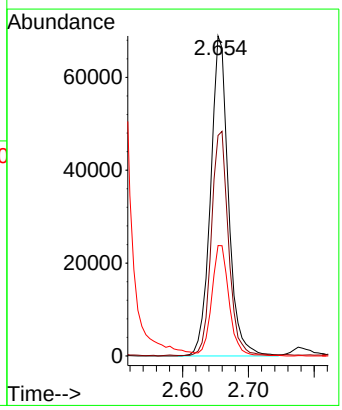
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

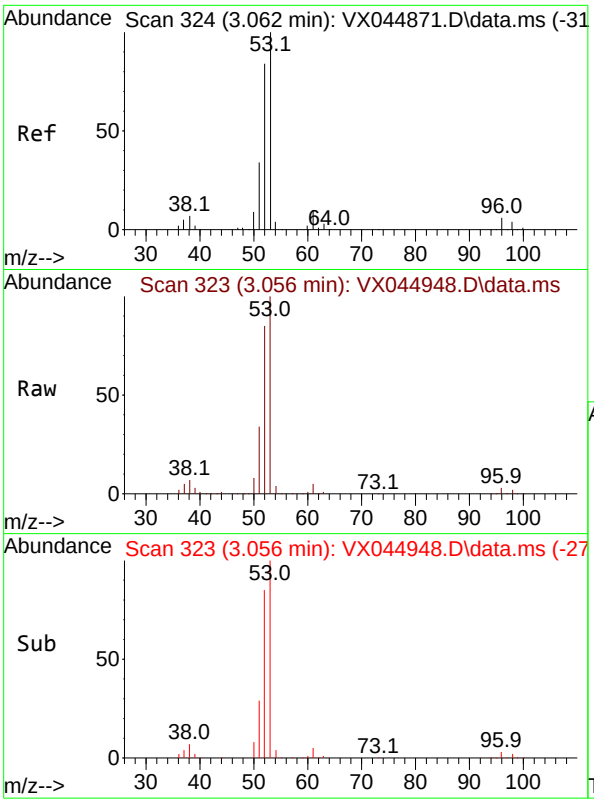


#14
Allyl chloride
Concen: 50.110 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 41 Resp: 130324

Ion	Ratio	Lower	Upper
41	100		
39	67.0	51.4	77.2
76	33.4	27.0	40.4

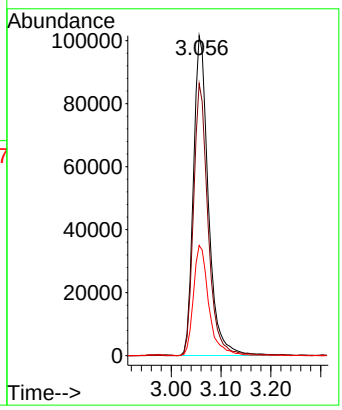




#15
Acrylonitrile
Concen: 260.443 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 53 Resp: 21083

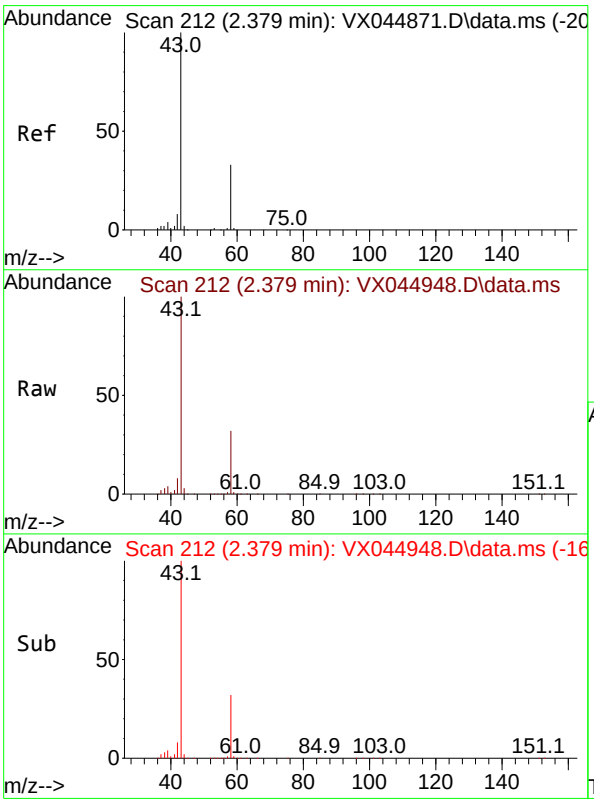
Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.0	97.6
51	35.8	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

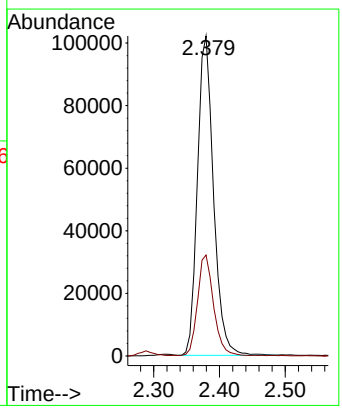
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

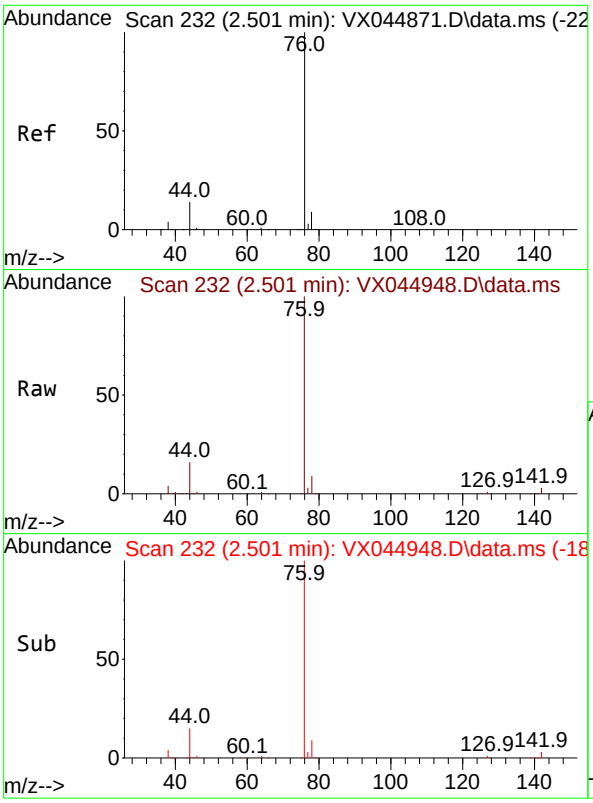


#16
Acetone
Concen: 263.641 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 173217

Ion	Ratio	Lower	Upper
43	100		
58	31.5	26.5	39.7

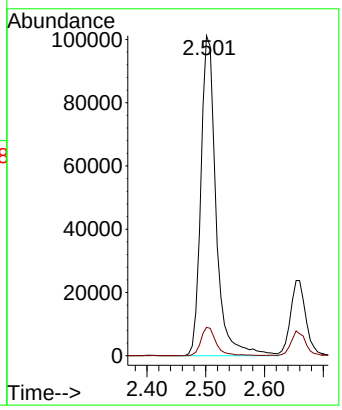




#17
Carbon Disulfide
Concen: 46.138 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 76 Resp: 18206

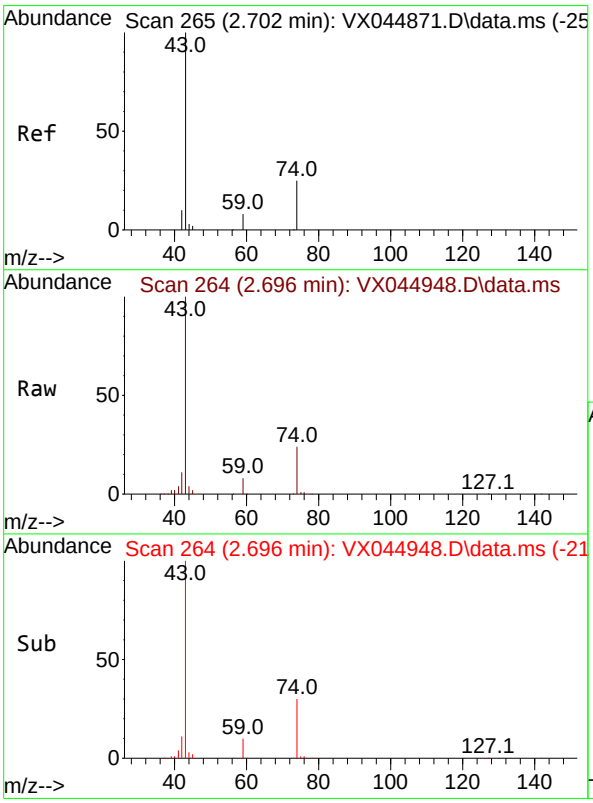
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

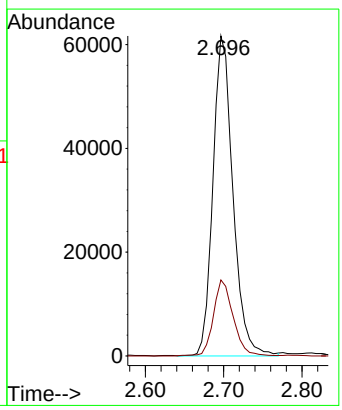
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

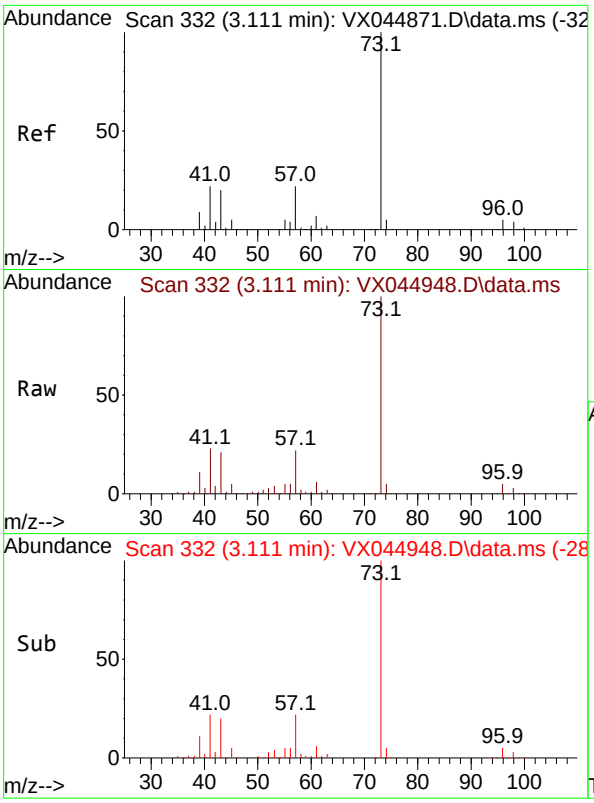


#18
Methyl Acetate
Concen: 52.872 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 109619

Ion	Ratio	Lower	Upper
43	100		
74	23.5	18.9	28.3

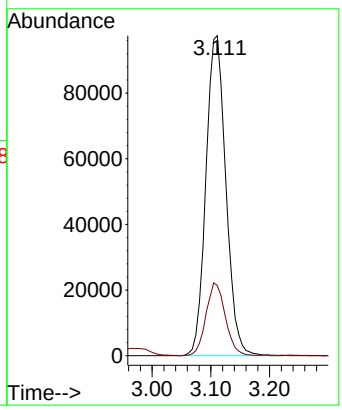




#19
Methyl tert-butyl Ether
Concen: 50.309 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 73 Resp: 23034

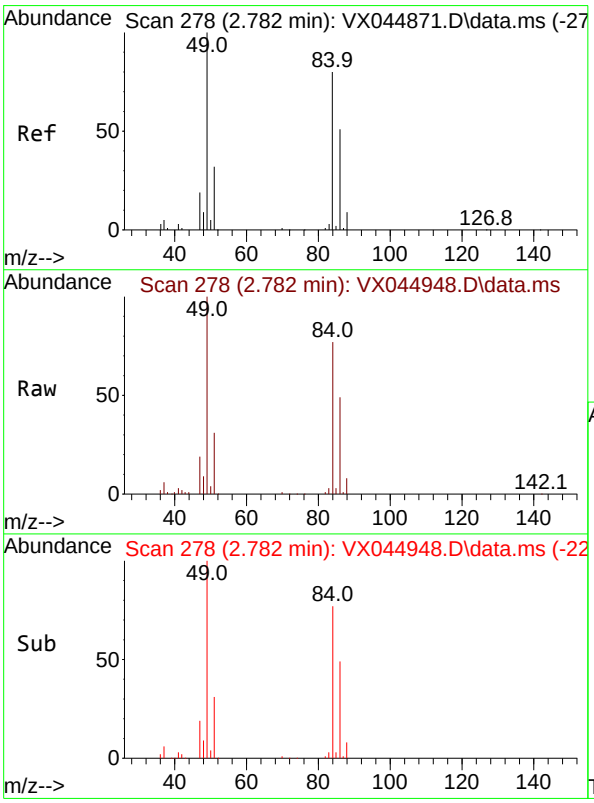
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

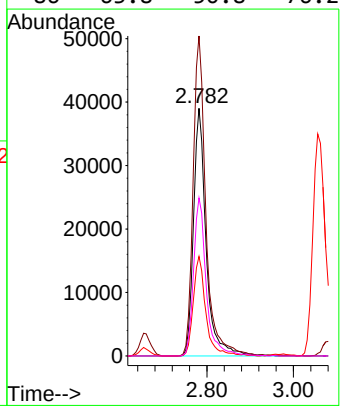
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

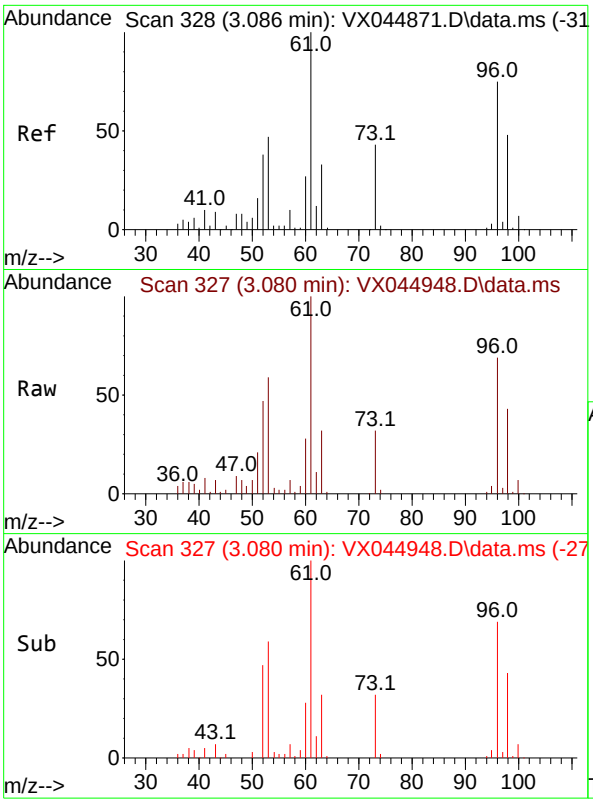


#20
Methylene Chloride
Concen: 49.206 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 84 Resp: 79188

Ion	Ratio	Lower	Upper
84	100		
49	129.2	100.1	150.1
51	40.2	31.7	47.5
86	63.8	50.8	76.2

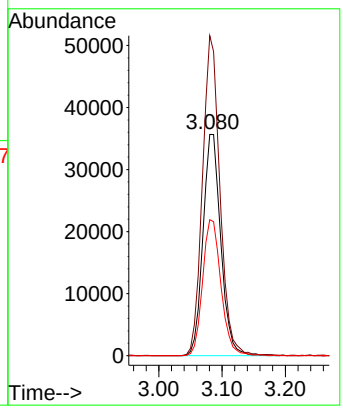




#21
trans-1,2-Dichloroethene
Concen: 49.443 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 96 Resp: 7002

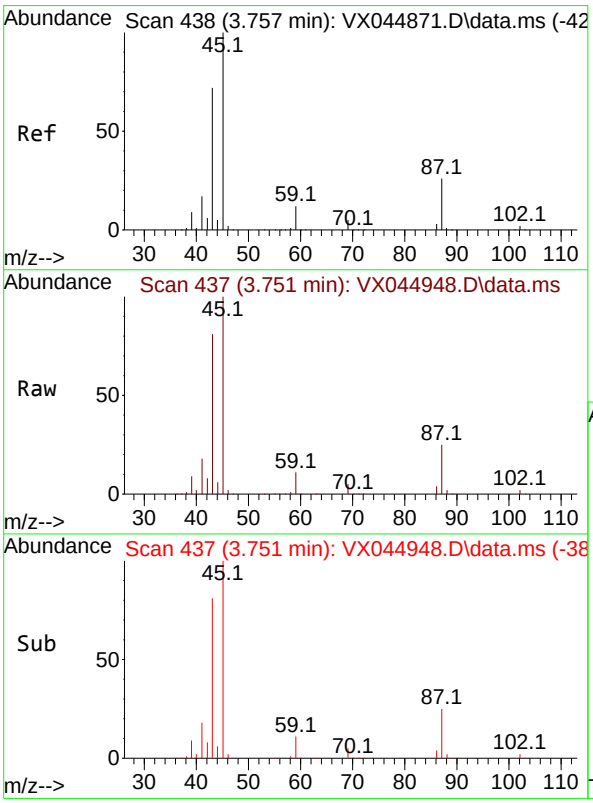
Ion	Ratio	Lower	Upper
96	100		
61	144.6	106.0	159.0
98	61.5	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

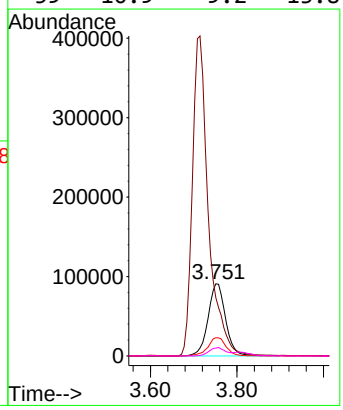
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

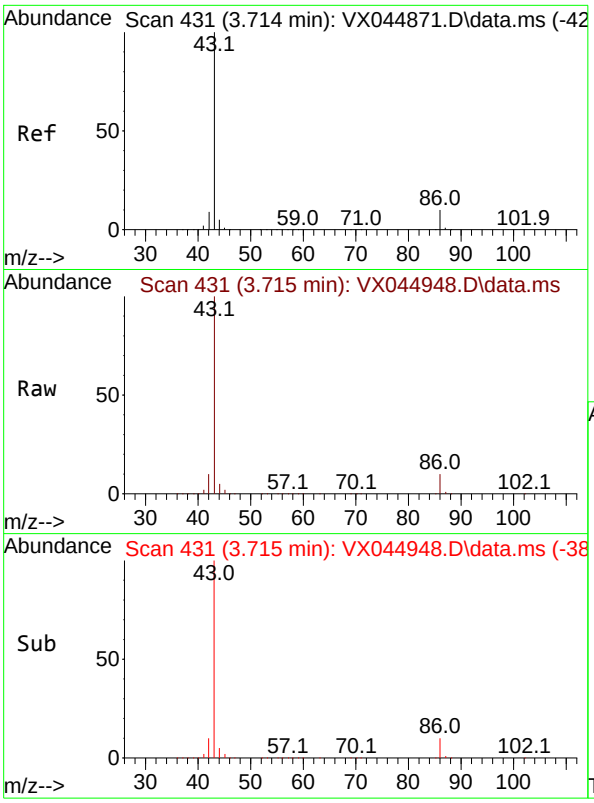


#22
Diisopropyl ether
Concen: 52.025 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 45 Resp: 255981

Ion	Ratio	Lower	Upper
45	100		
43	80.5	58.0	87.0
87	25.2	20.7	31.1
59	10.9	9.2	13.8

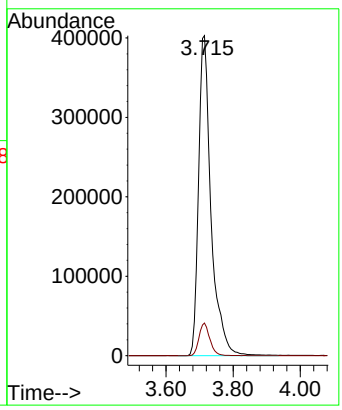




#23
Vinyl Acetate
Concen: 259.654 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 104155

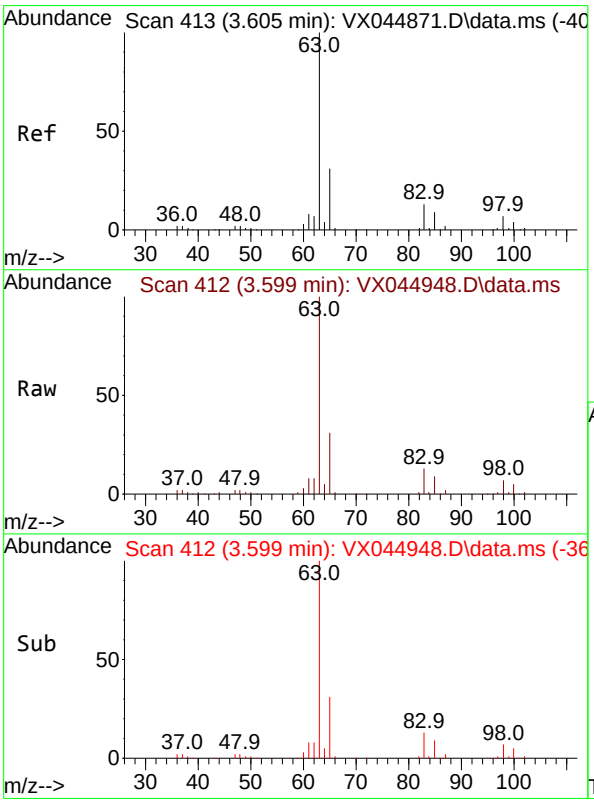
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

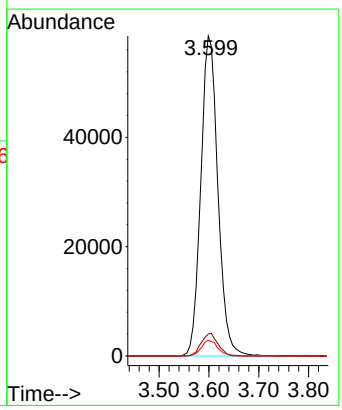
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

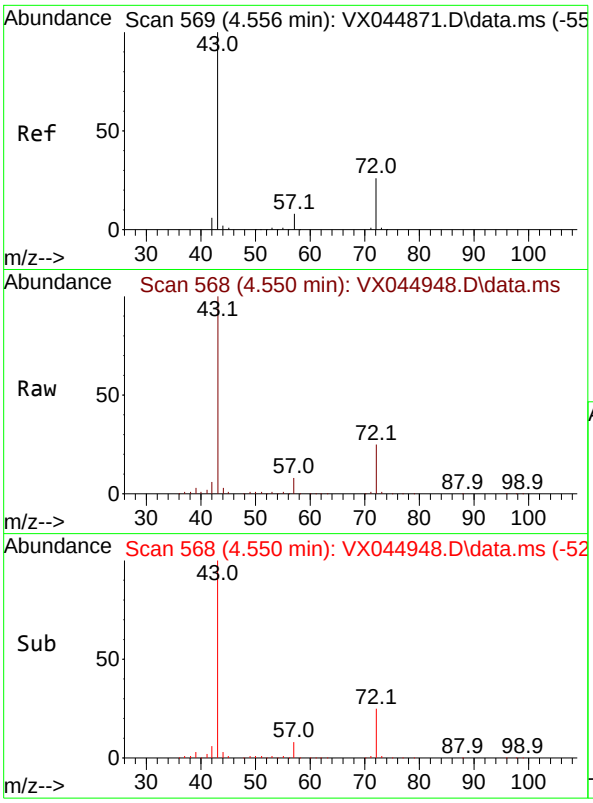


#24
1,1-Dichloroethane
Concen: 50.620 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 63 Resp: 139363

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.9
100	4.9	2.1	6.5





#25
2-Butanone
Concen: 265.167 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

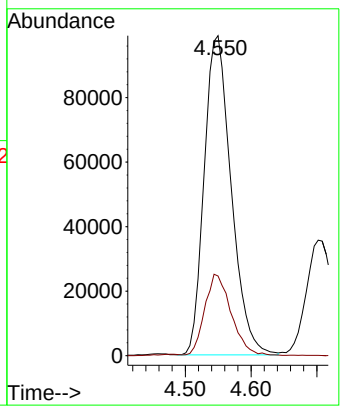
Tgt Ion: 43 Resp: 28290

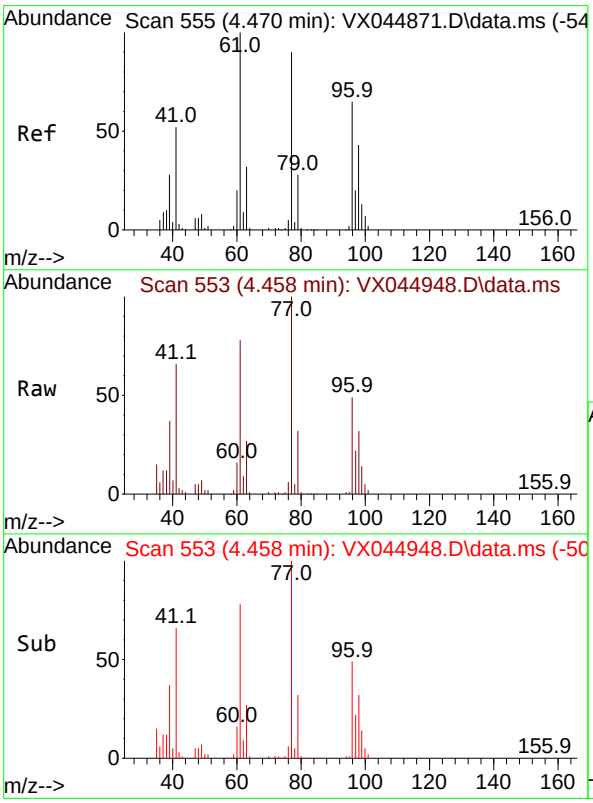
Ion	Ratio	Lower	Upper
43	100		
72	24.8	21.2	31.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

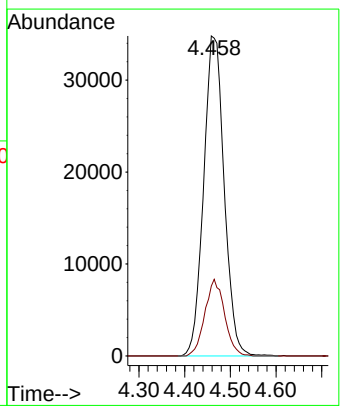


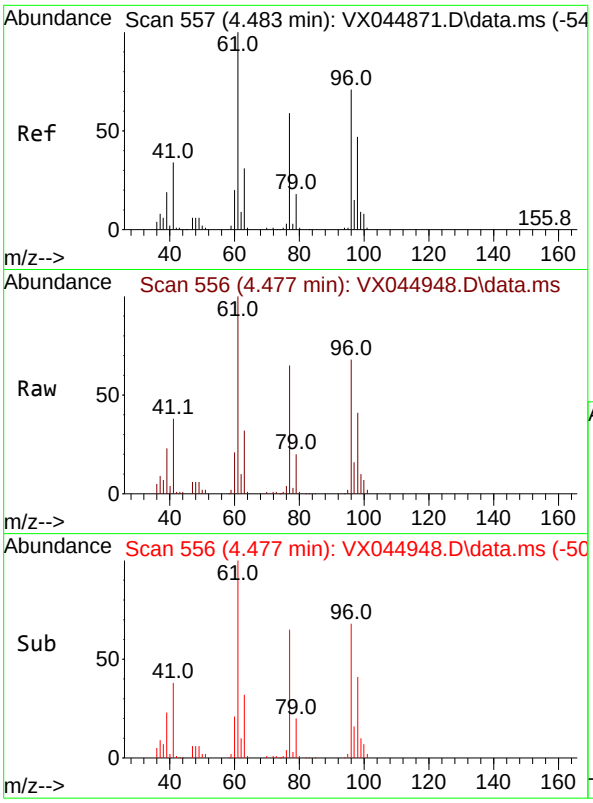


#26
2,2-Dichloropropane
Concen: 49.758 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 77 Resp: 108637

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.8	35.3

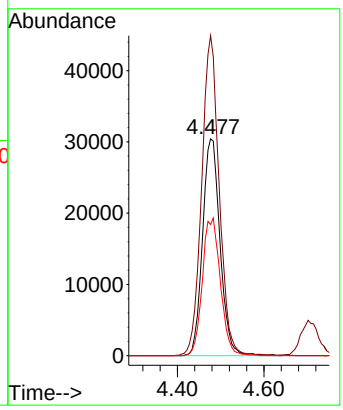




#27
cis-1,2-Dichloroethene
Concen: 50.033 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 96 Resp: 8512

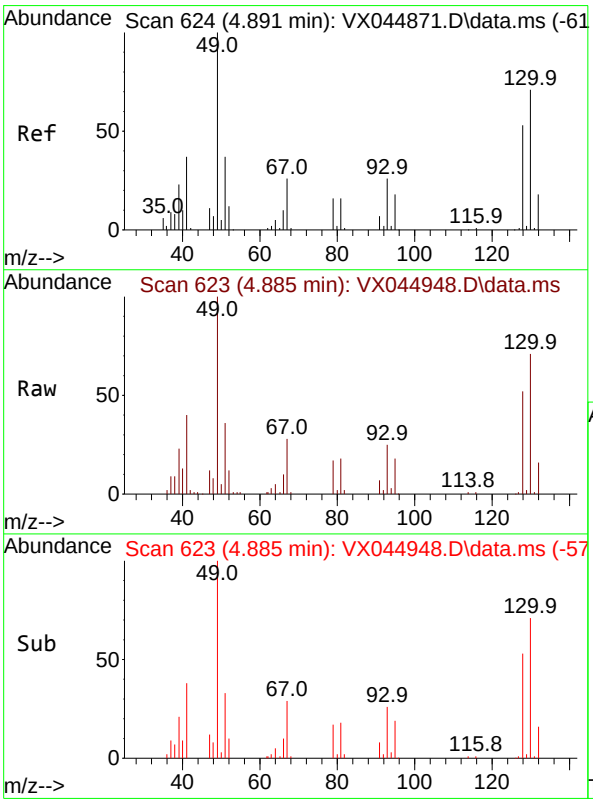
Ion	Ratio	Lower	Upper
96	100		
61	148.2	0.0	294.0
98	65.4	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

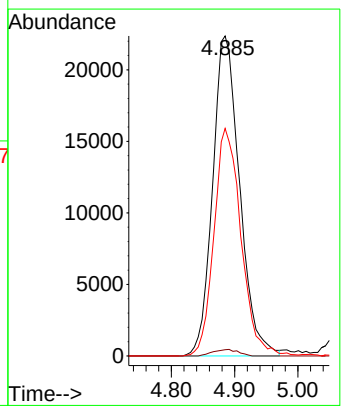
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

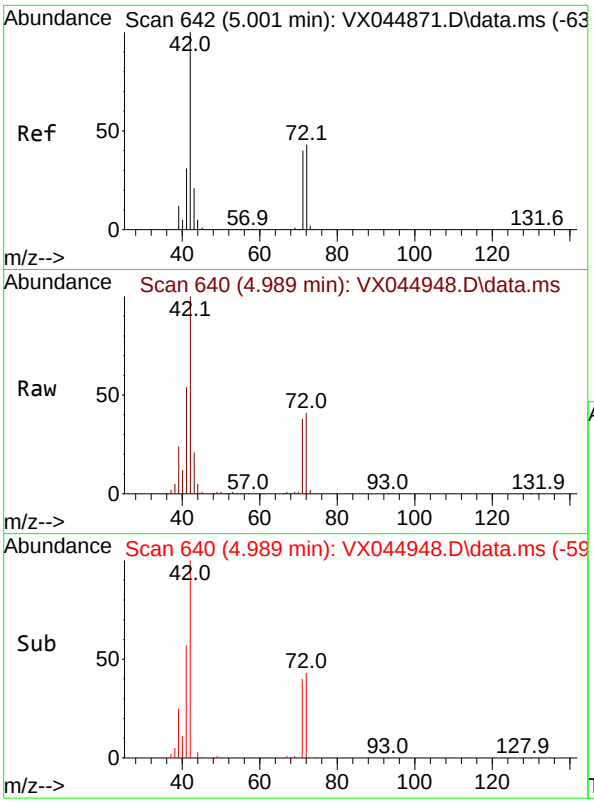


#28
Bromochloromethane
Concen: 50.132 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 49 Resp: 66328

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.6
130	71.2	56.7	85.1

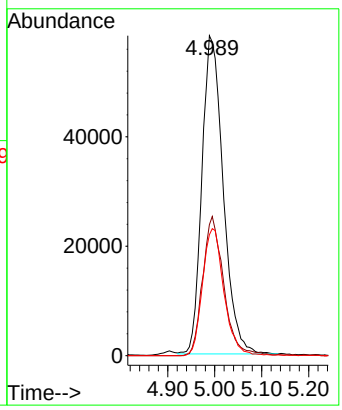




#29
Tetrahydrofuran
Concen: 258.456 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.012 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 42 Resp: 18309

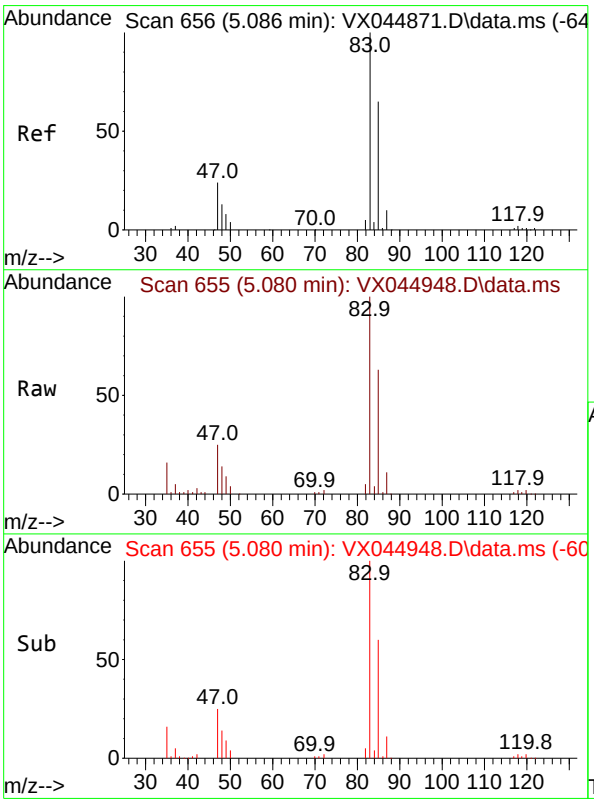
Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.0	52.4
71	40.1	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

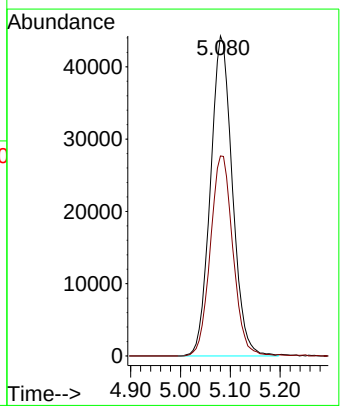
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

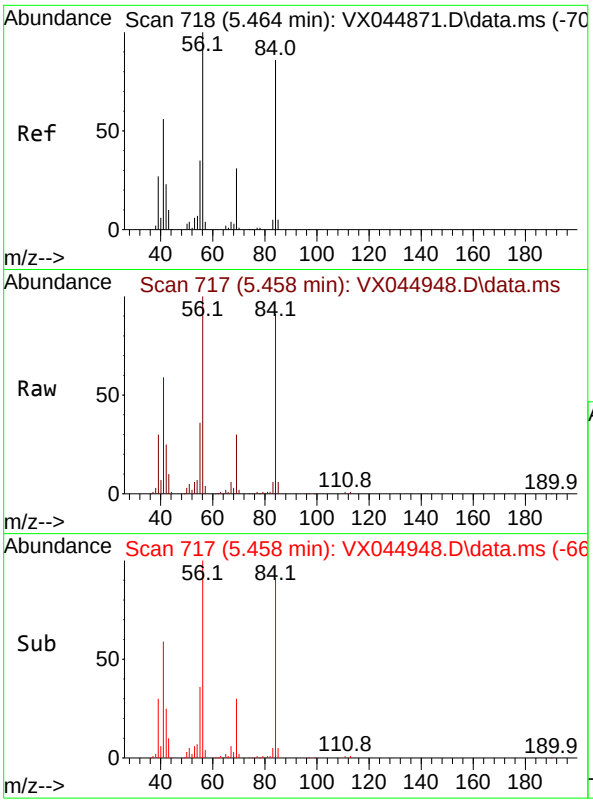


#30
Chloroform
Concen: 50.664 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 83 Resp: 135270

Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.1	78.1

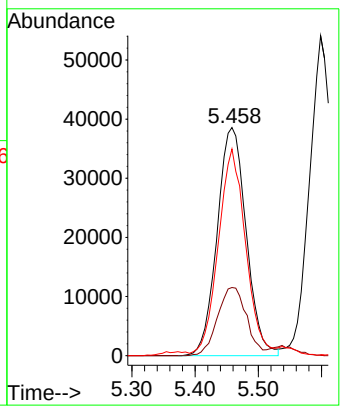




#31
Cyclohexane
Concen: 48.511 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 56 Resp: 12312

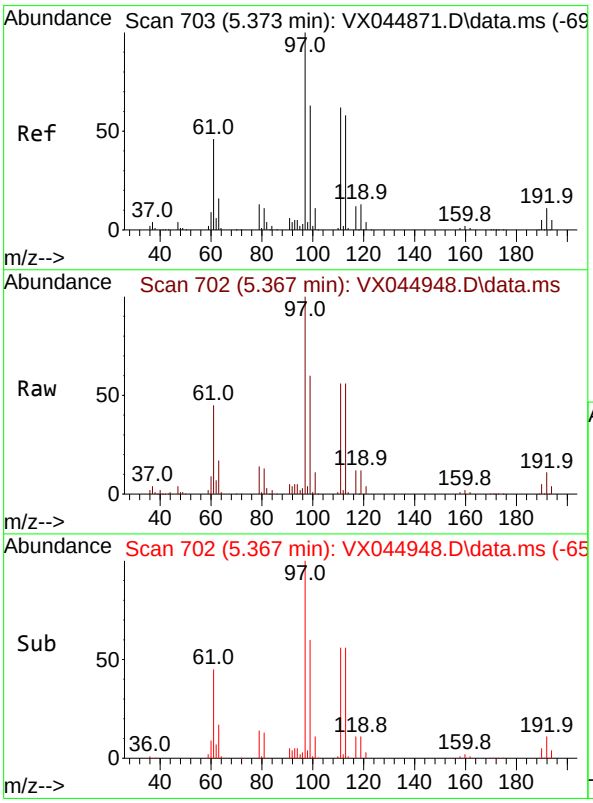
Ion	Ratio	Lower	Upper
56	100		
69	29.9	24.4	36.6
84	88.8	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

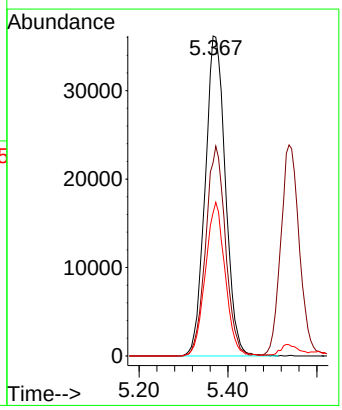
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

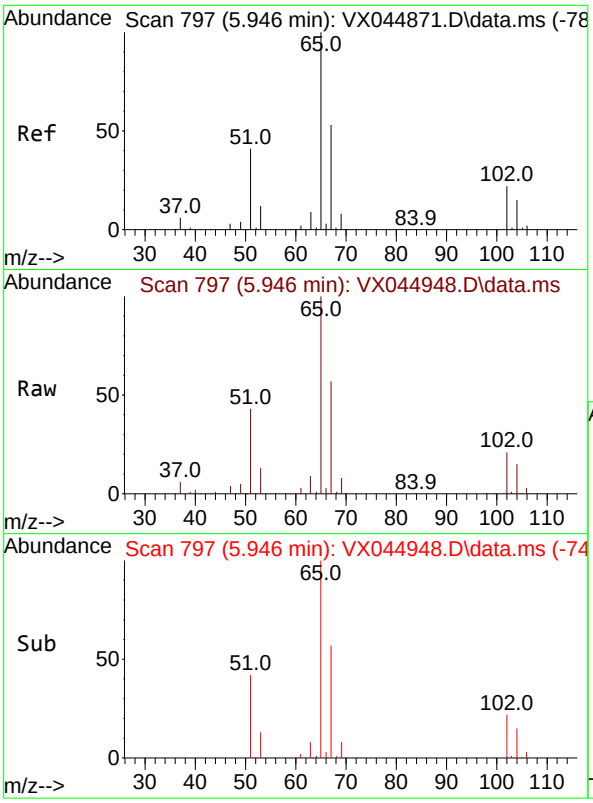


#32
1,1,1-Trichloroethane
Concen: 50.622 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 97 Resp: 114641

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.0	76.6
61	46.8	36.6	55.0

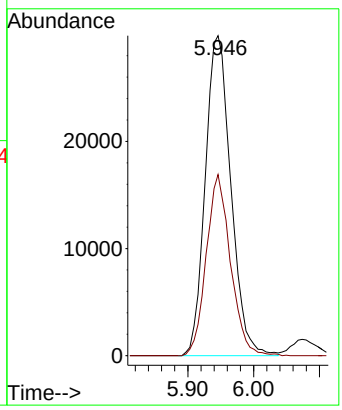




#33
1,2-Dichloroethane-d4
Concen: 49.577 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 65 Resp: 8102

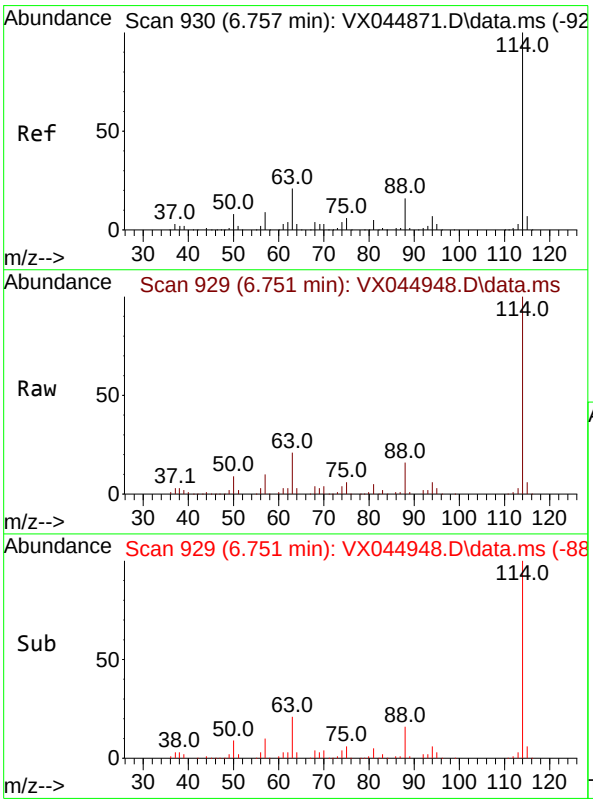
Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

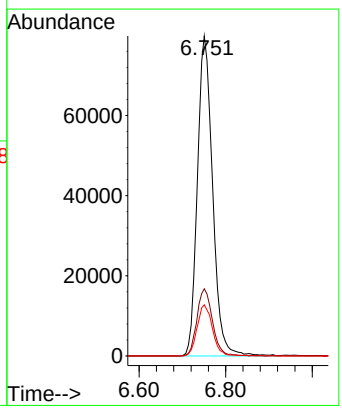
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

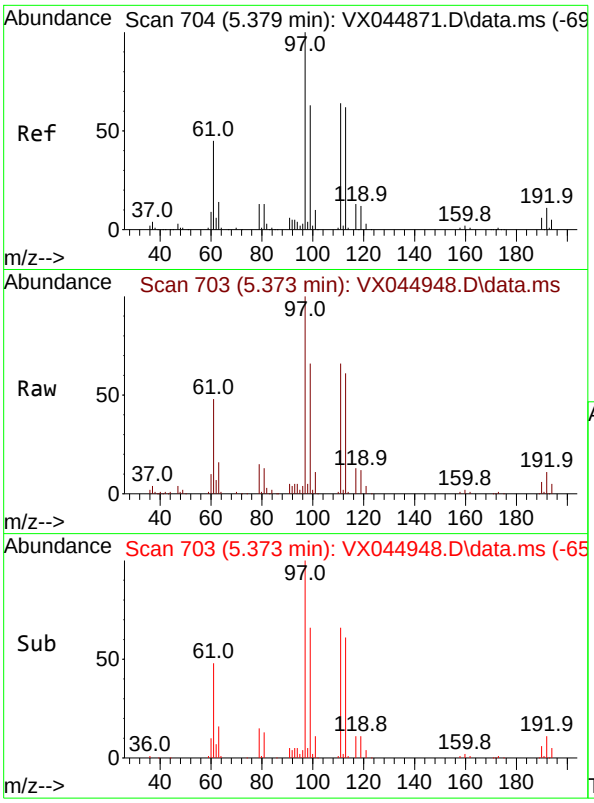


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:114 Resp: 194847

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.4
88	16.0	0.0	31.4

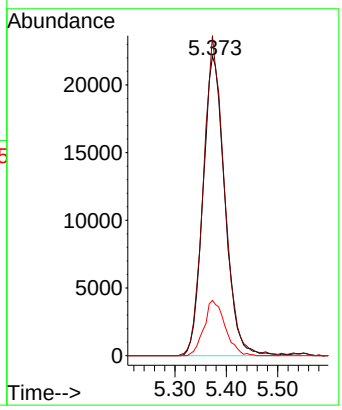




#35
Dibromofluoromethane
Concen: 51.473 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:113 Resp: 6520

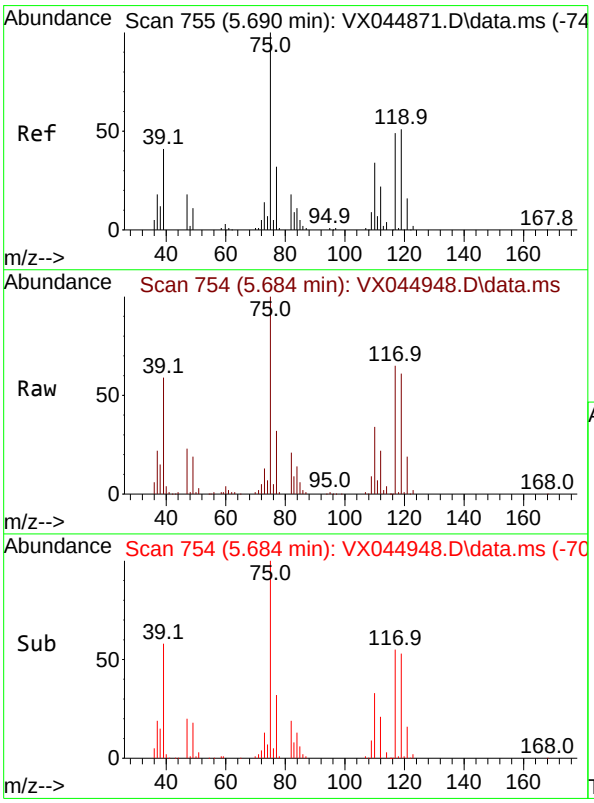
Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.5	125.3
192	17.9	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

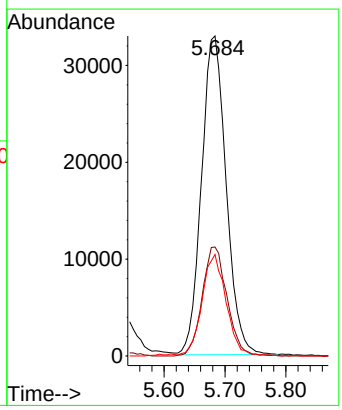
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

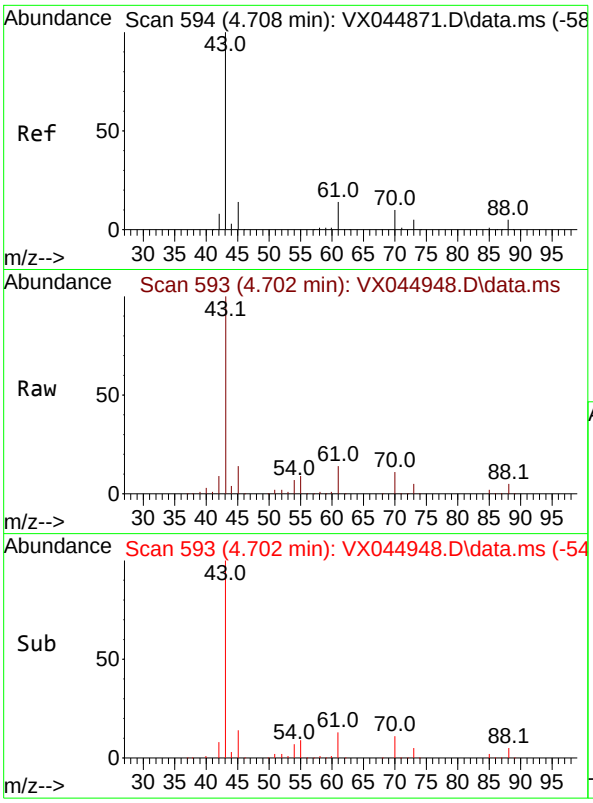


#36
1,1-Dichloropropene
Concen: 50.648 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 92569

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	31.2	24.6	37.0

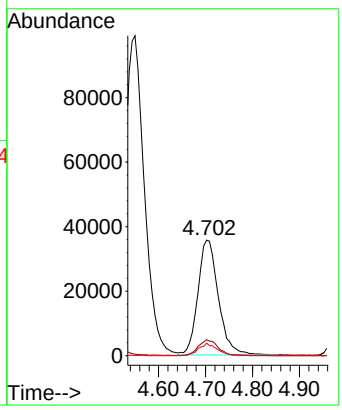




#37
Ethyl Acetate
Concen: 52.854 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 10744

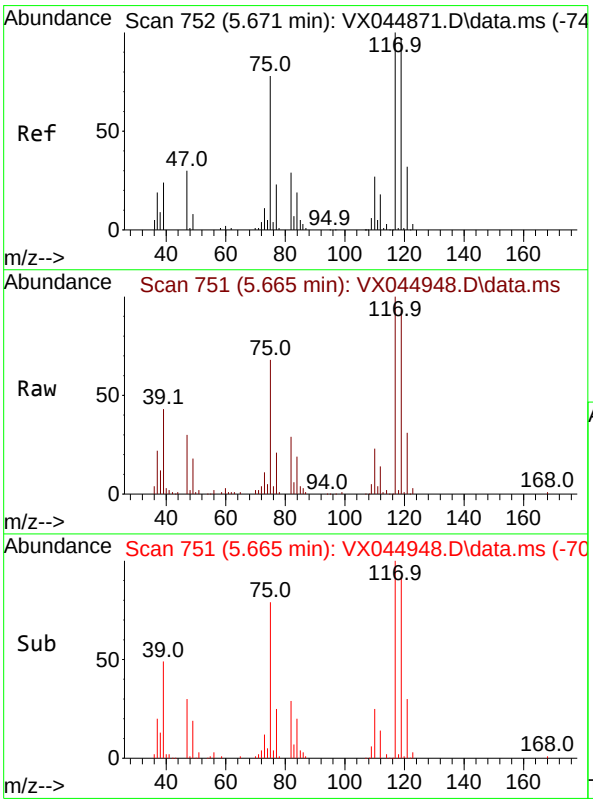
Ion	Ratio	Lower	Upper
43	100		
61	12.8	11.0	16.4
70	9.8	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

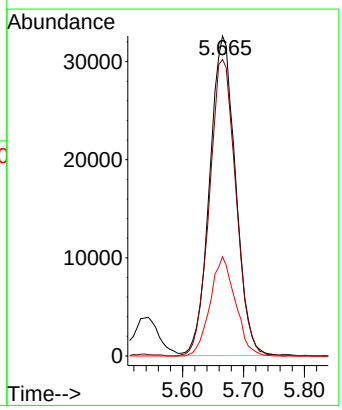
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

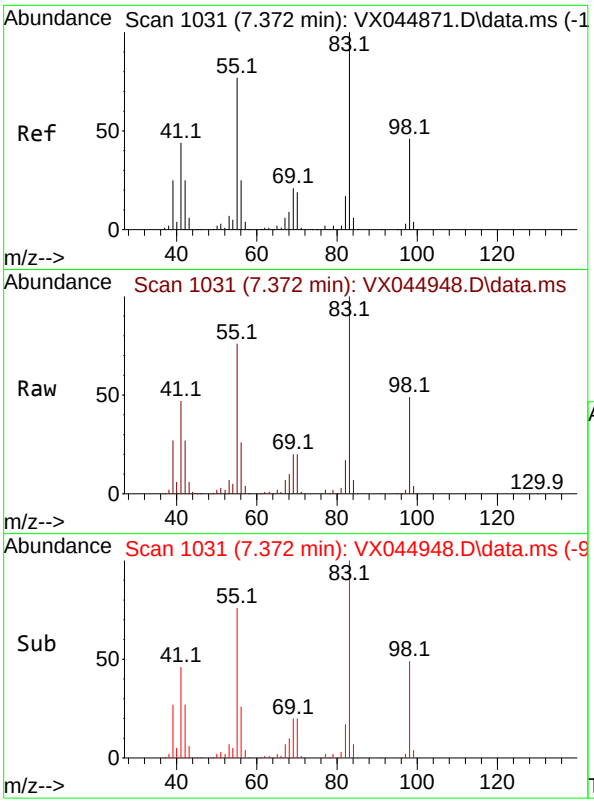


#38
Carbon Tetrachloride
Concen: 53.647 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:117 Resp: 96084

Ion	Ratio	Lower	Upper
117	100		
119	92.9	77.5	116.3
121	31.1	25.6	38.4

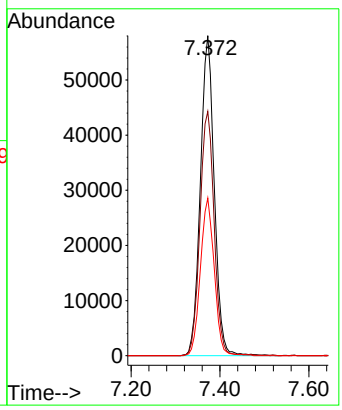




#39
Methylcyclohexane
Concen: 53.611 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 83 Resp: 12667

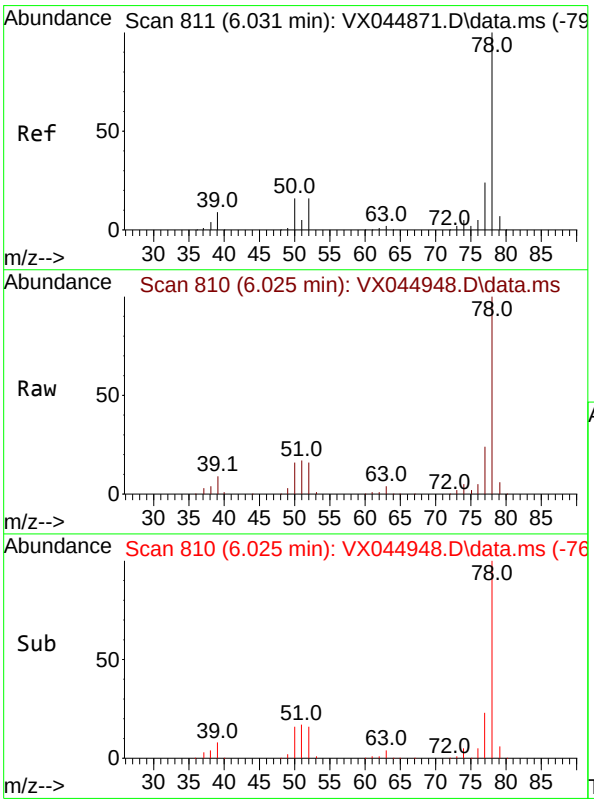
Ion	Ratio	Lower	Upper
83	100		
55	76.3	61.3	91.9
98	49.3	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

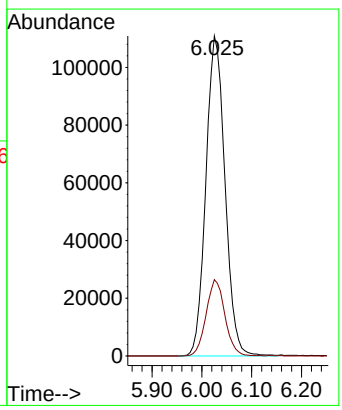
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

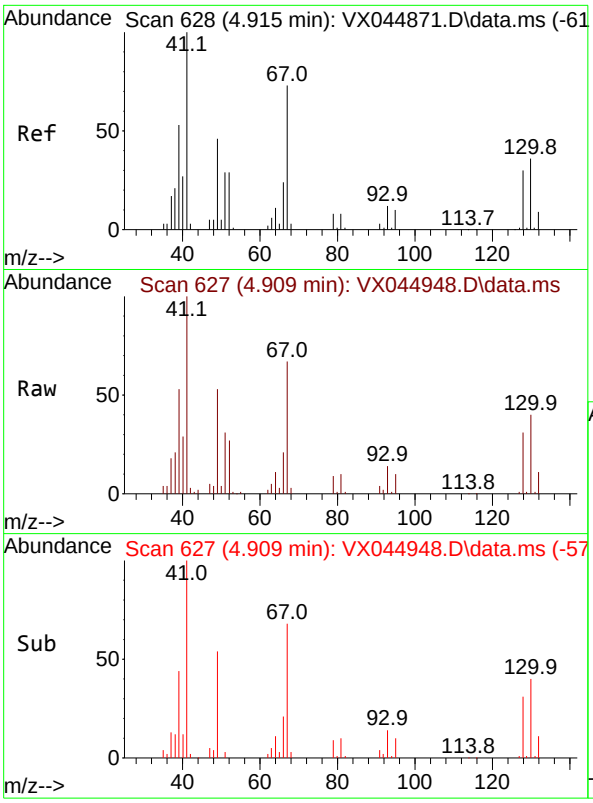


#40
Benzene
Concen: 51.720 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 78 Resp: 295171

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6

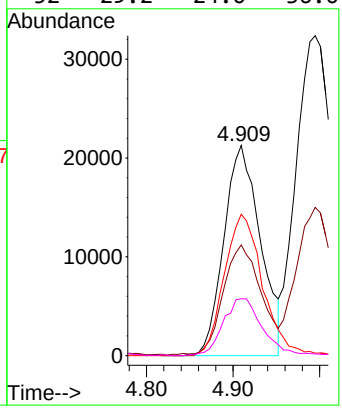




#41
Methacrylonitrile
Concen: 57.439 ug/l
RT: 4.909 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 41 Resp: 6250

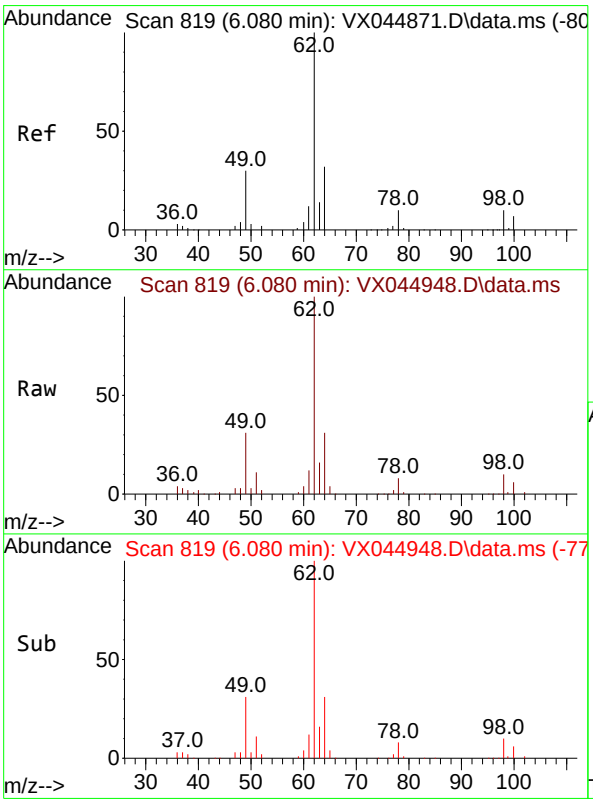
Ion	Ratio	Lower	Upper
41	100		
39	54.3	43.1	64.7
67	70.9	57.0	85.6
52	29.2	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

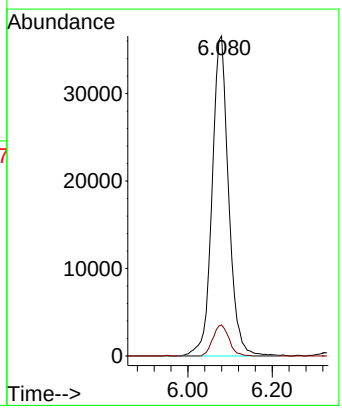
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

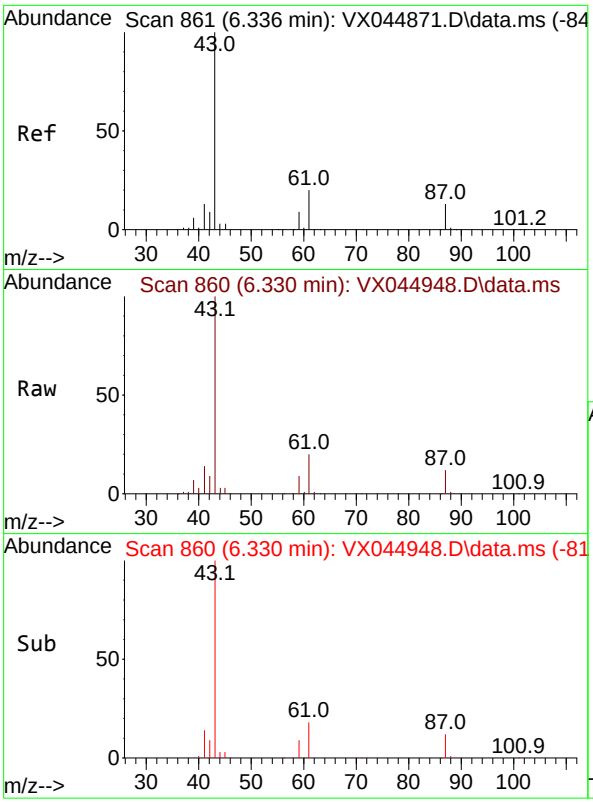


#42
1,2-Dichloroethane
Concen: 54.630 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 62 Resp: 99367

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.4

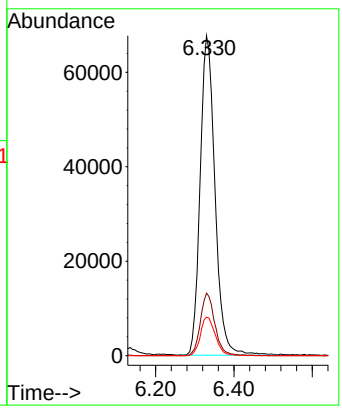




#43
Isopropyl Acetate
Concen: 54.238 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 17805

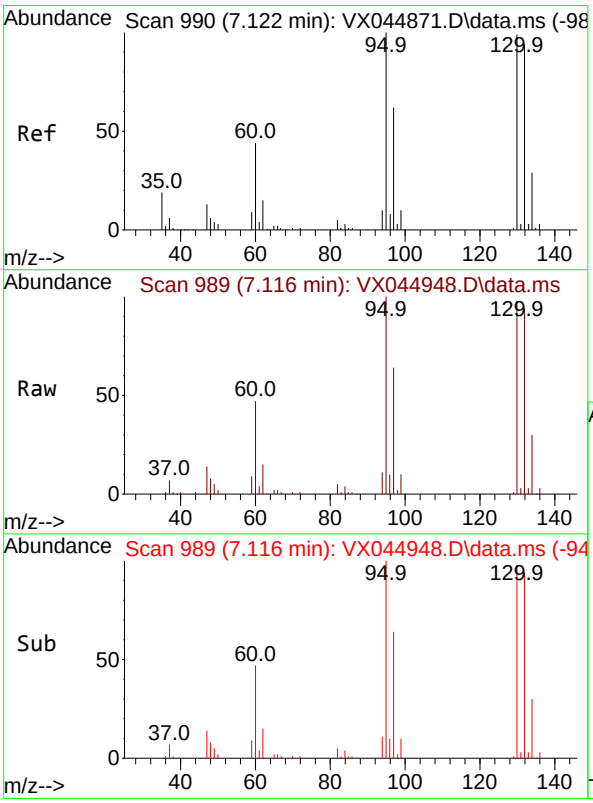
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.8	23.8
87	12.2	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

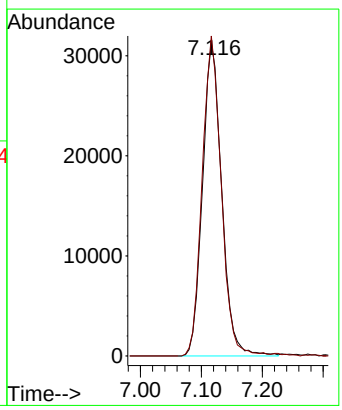
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

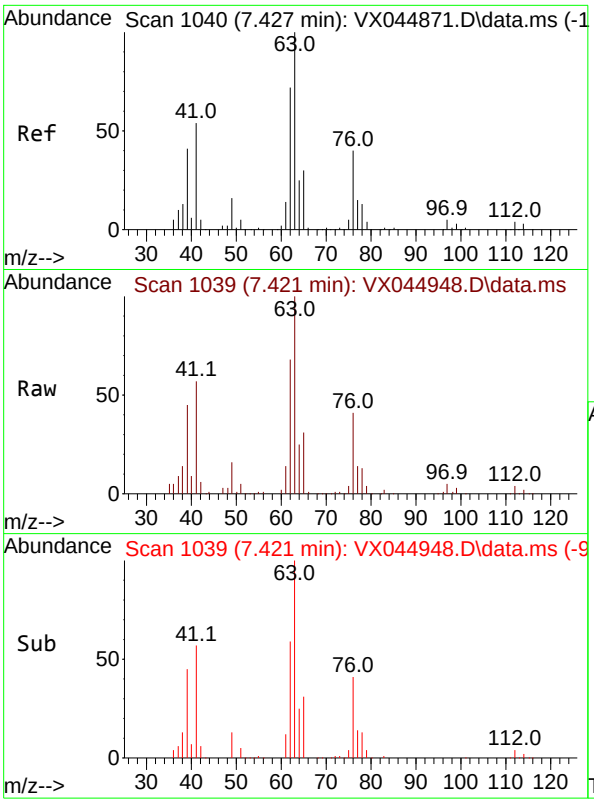


#44
Trichloroethene
Concen: 52.686 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:130 Resp: 68729

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	202.4





#45
1,2-Dichloropropane
Concen: 52.086 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

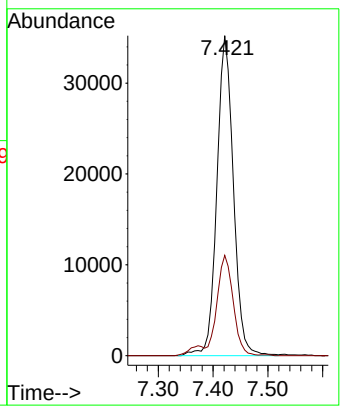
Tgt Ion: 63 Resp: 7395

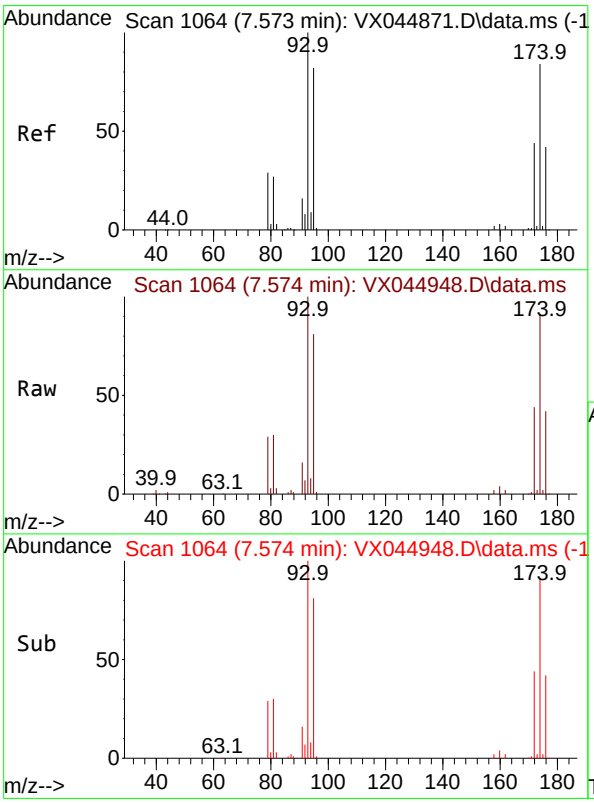
Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.2	36.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

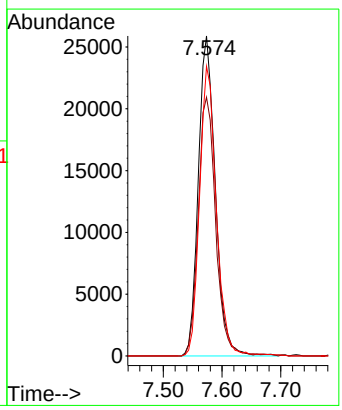


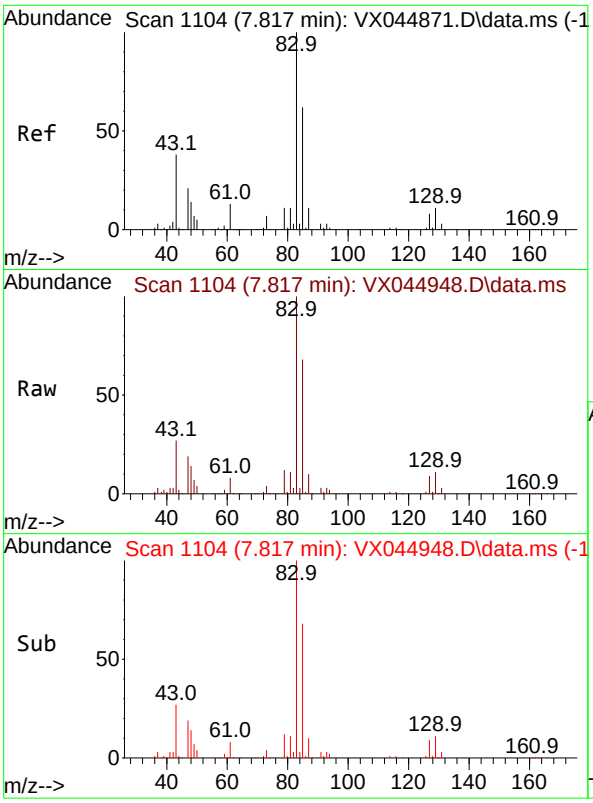


#46
Dibromomethane
Concen: 52.910 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 93 Resp: 52099

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.2	99.4
174	88.5	69.9	104.9

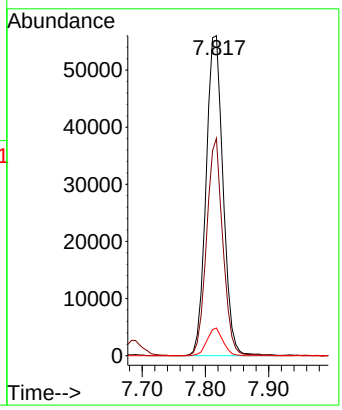




#47
Bromodichloromethane
Concen: 54.897 ug/l
RT: 7.817 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 83 Resp: 10466

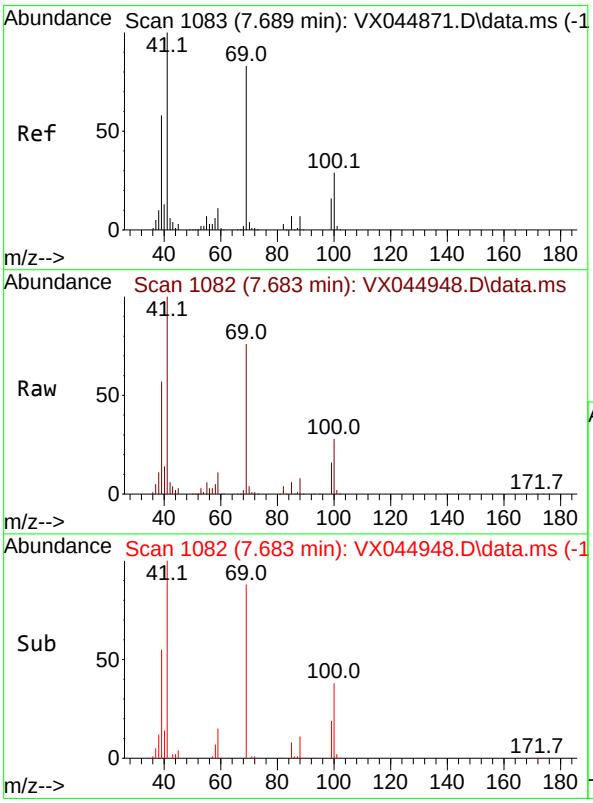
Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.0	75.0
127	8.7	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

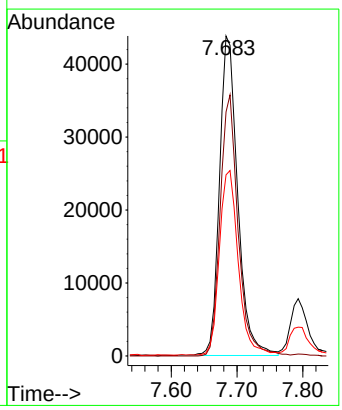
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

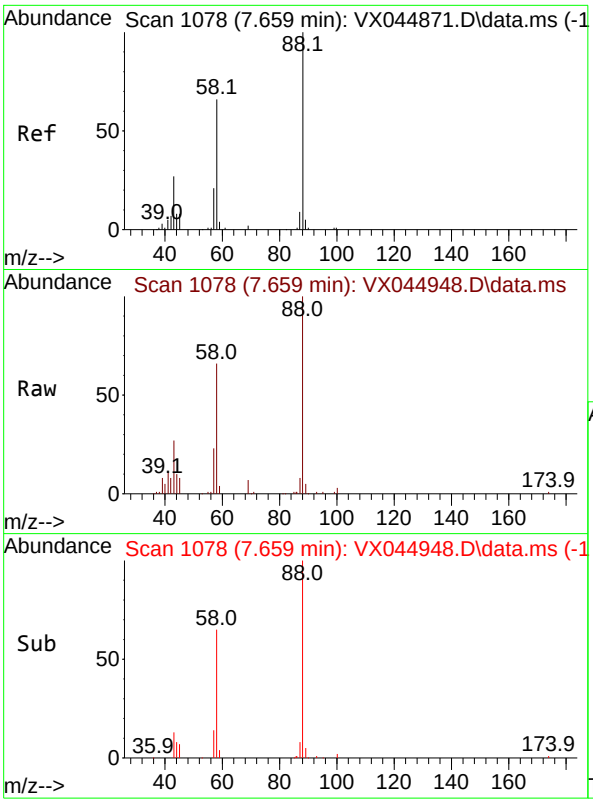


#48
Methyl methacrylate
Concen: 54.559 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 41 Resp: 84452

Ion	Ratio	Lower	Upper
41	100		
69	80.4	65.8	98.8
39	59.9	46.4	69.6

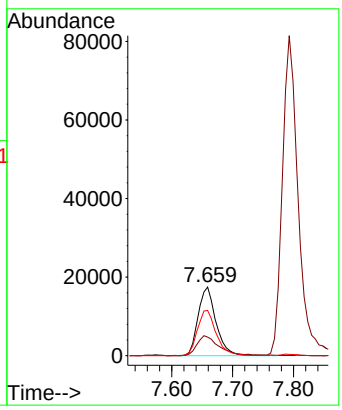




#49
1,4-Dioxane
Concen: 1079.521 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 88 Resp: 3585

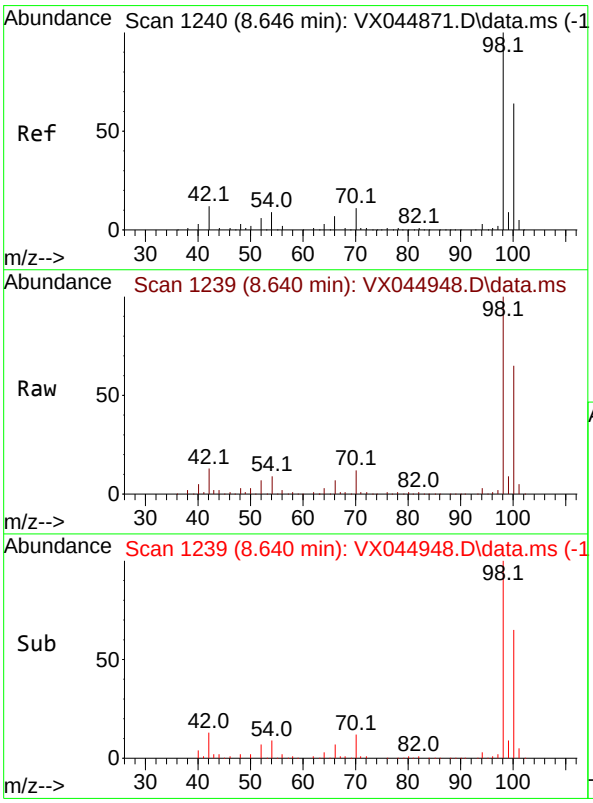
Ion	Ratio	Lower	Upper
88	100		
43	35.2	26.6	39.8
58	69.2	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

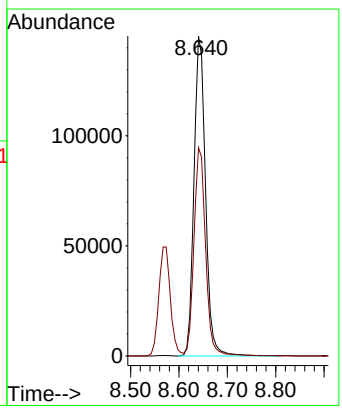
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

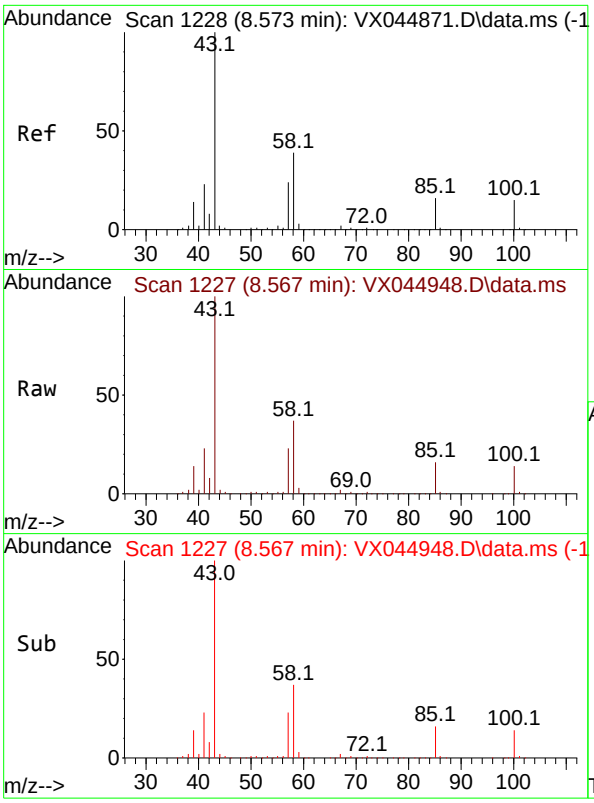


#50
Toluene-d8
Concen: 50.081 ug/l
RT: 8.640 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 98 Resp: 239910

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.7	79.1

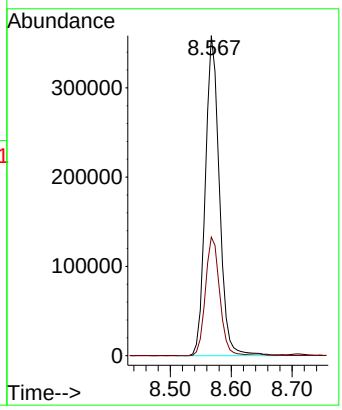




#51
4-Methyl-2-Pentanone
Concen: 287.542 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 57387

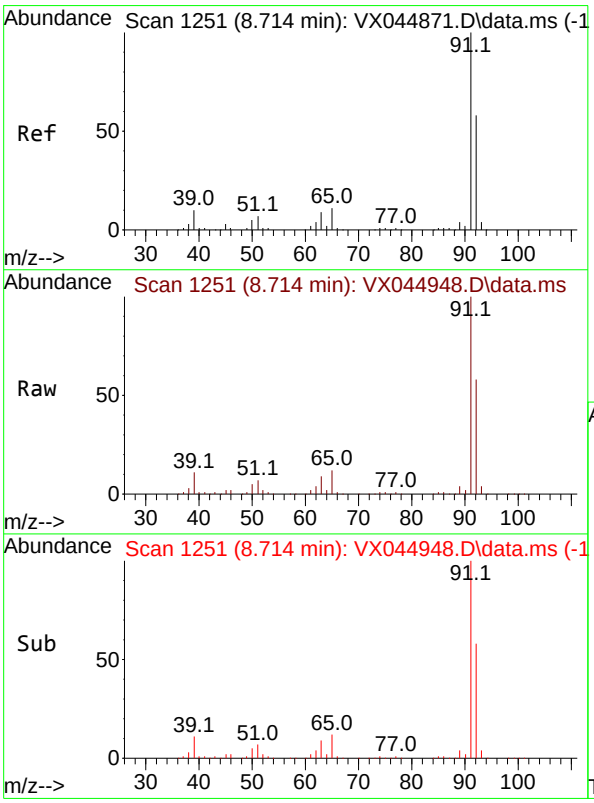
Ion	Ratio	Lower	Upper
43	100		
58	37.6	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

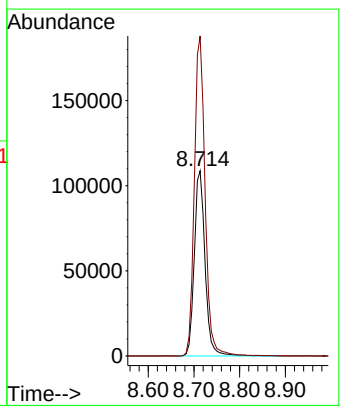
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

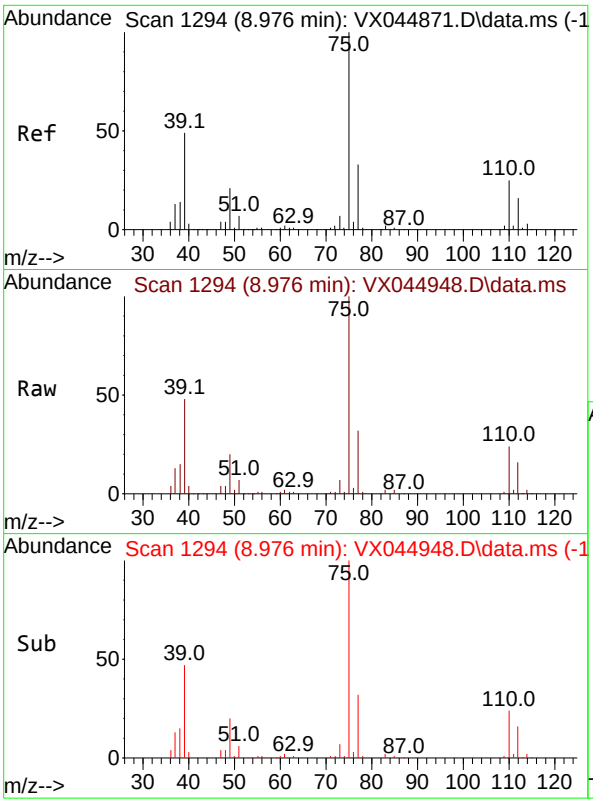


#52
Toluene
Concen: 52.259 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 92 Resp: 177622

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.4	206.2

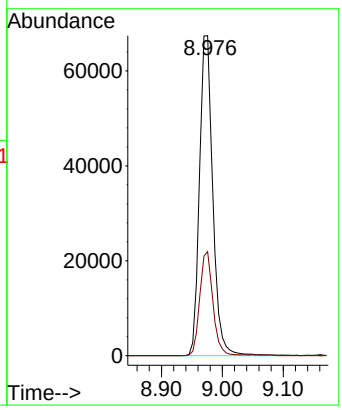




#53
t-1,3-Dichloropropene
Concen: 53.088 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 10242

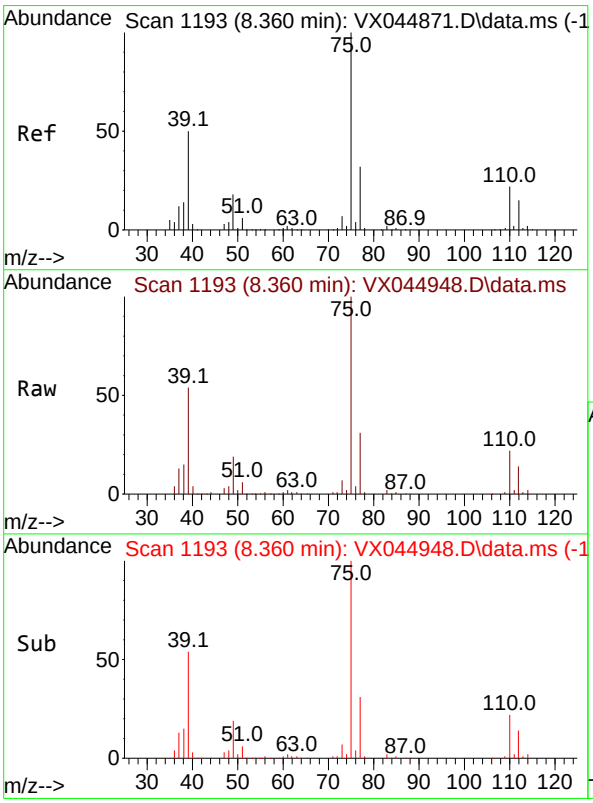
Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

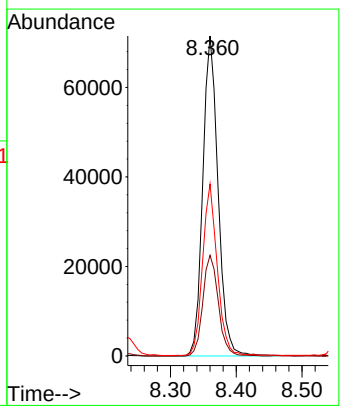
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

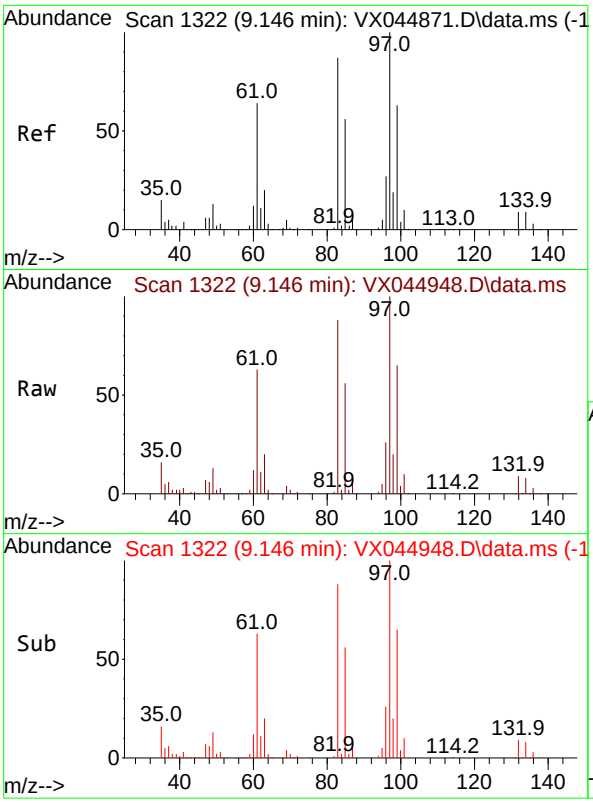


#54
cis-1,3-Dichloropropene
Concen: 53.670 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 115454

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.3	37.9
39	53.6	40.0	60.0

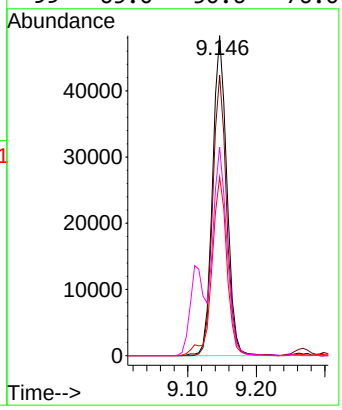




#55
1,1,2-Trichloroethane
Concen: 53.569 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 97 Resp: 6999

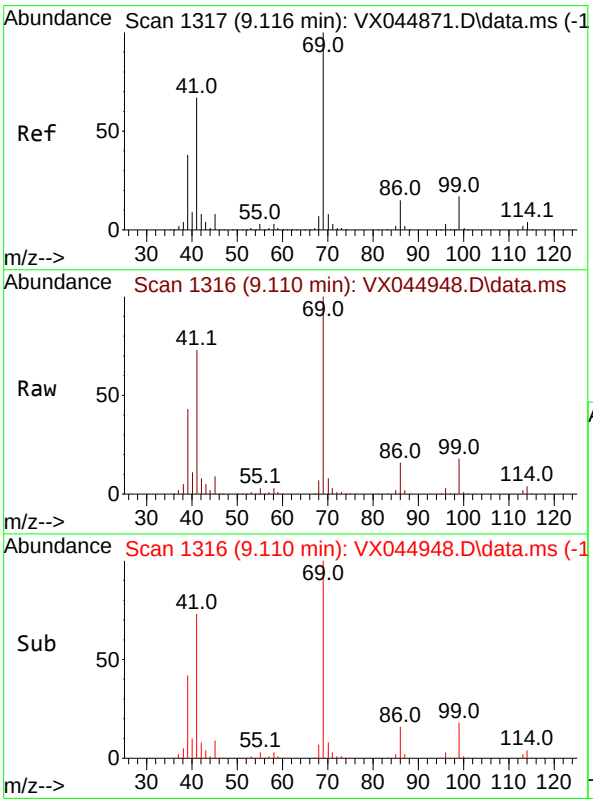
Ion	Ratio	Lower	Upper
97	100		
83	87.7	69.8	104.6
85	55.8	44.8	67.2
99	65.0	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

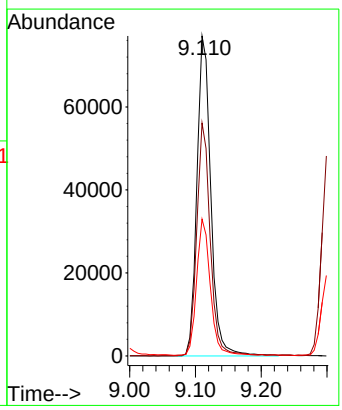
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

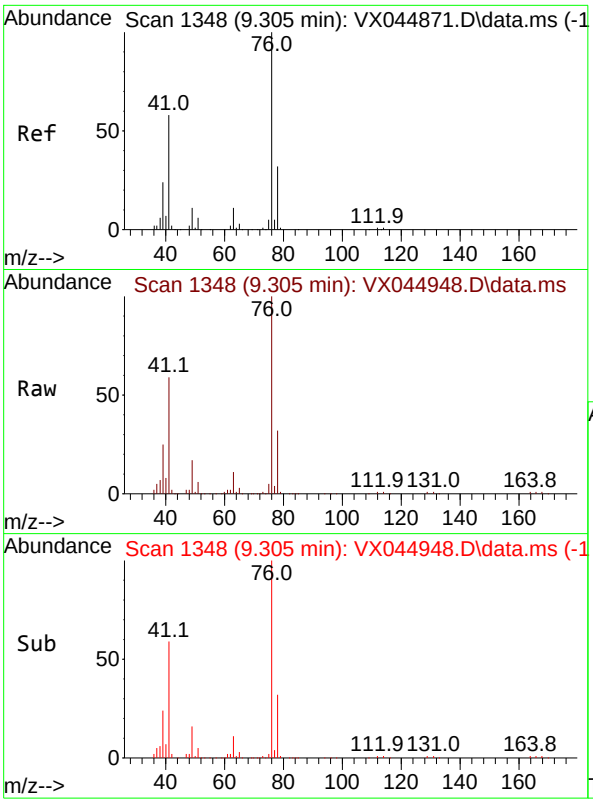


#56
Ethyl methacrylate
Concen: 53.714 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 69 Resp: 113350

Ion	Ratio	Lower	Upper
69	100		
41	71.0	55.2	82.8
39	41.9	30.8	46.2

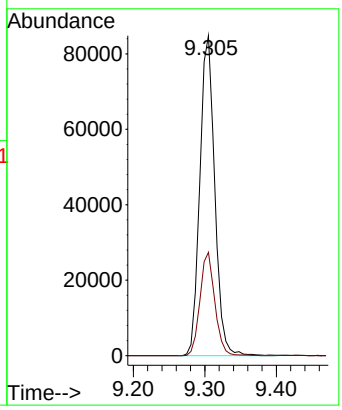




#57
1,3-Dichloropropane
Concen: 53.730 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 76 Resp: 12283

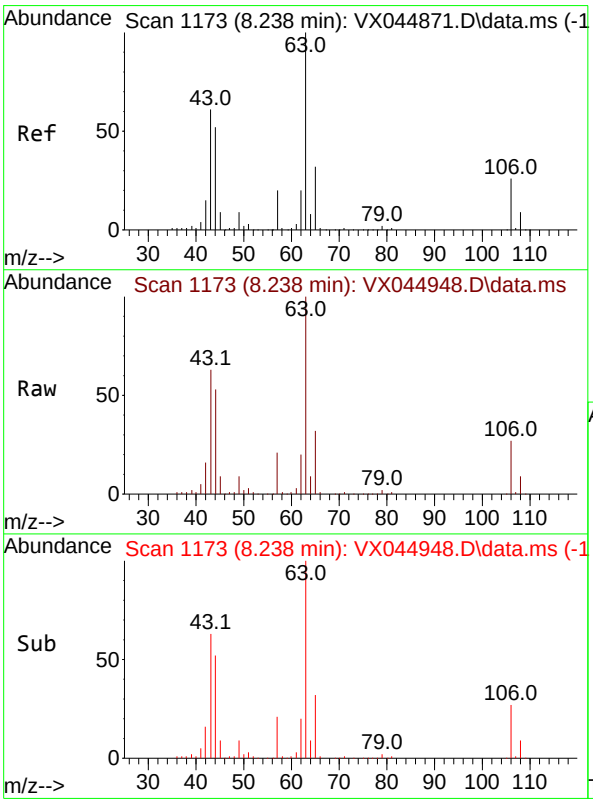
Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

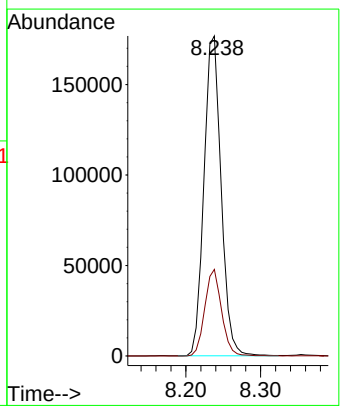
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

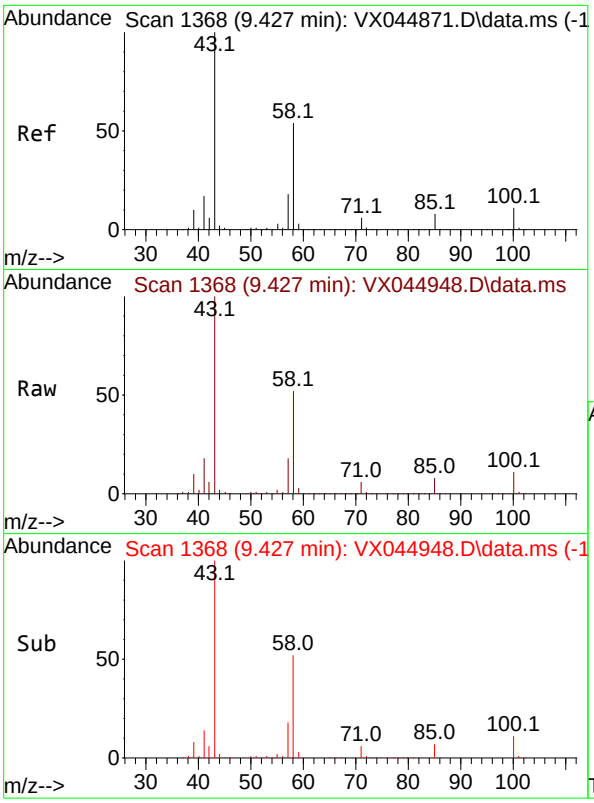


#58
2-Chloroethyl Vinyl ether
Concen: 271.549 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 63 Resp: 281369

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.3	31.9

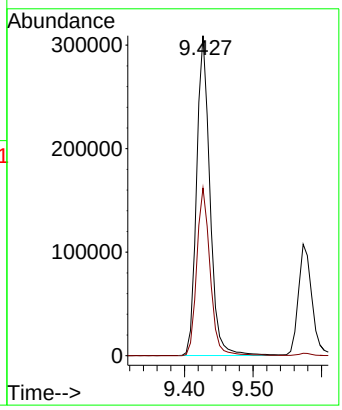




#59
2-Hexanone
Concen: 291.536 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 41922

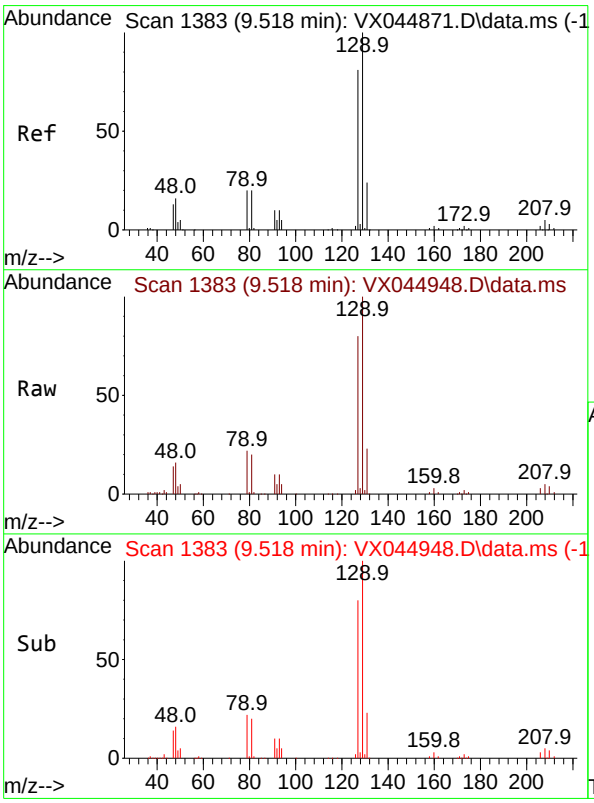
Ion	Ratio	Lower	Upper
43	100		
58	52.6	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

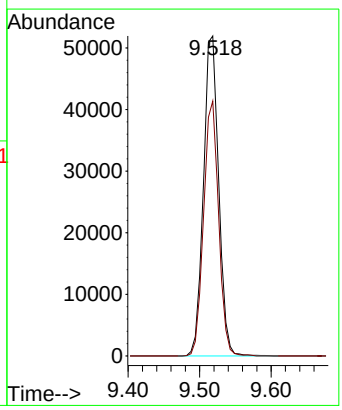
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

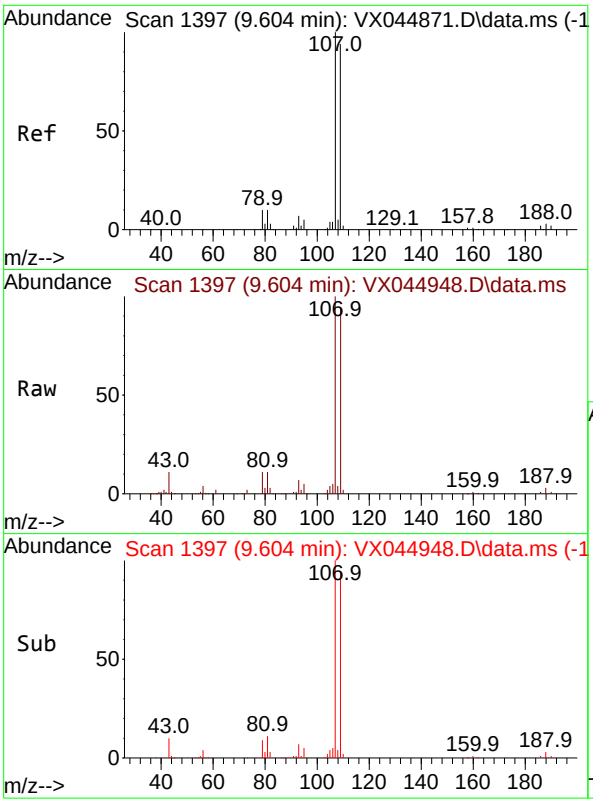


#60
Dibromochloromethane
Concen: 55.049 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:129 Resp: 76923

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

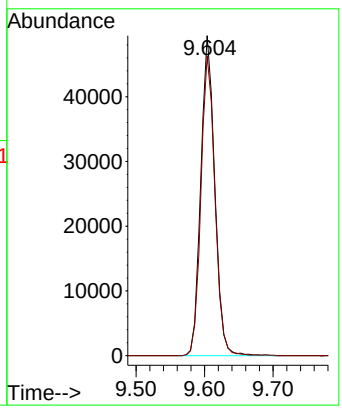




#61
1,2-Dibromoethane
Concen: 53.050 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:107 Resp: 7025

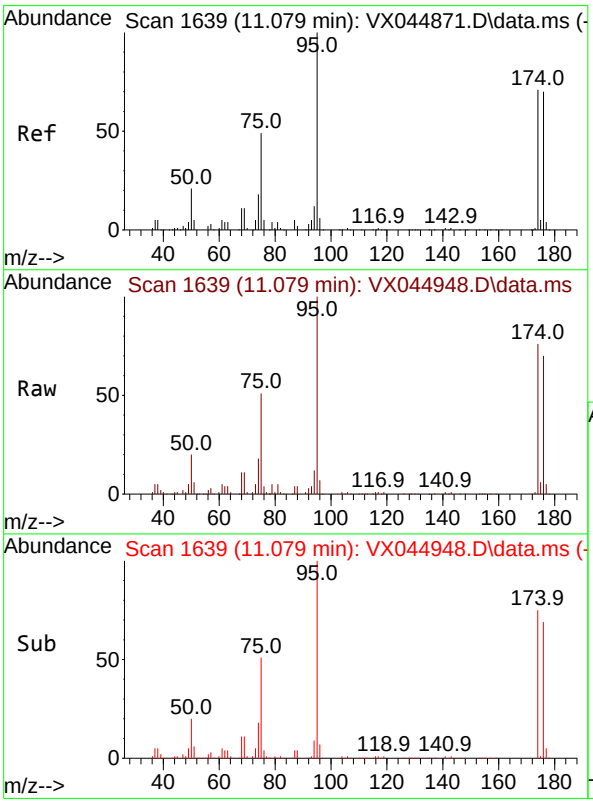
Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

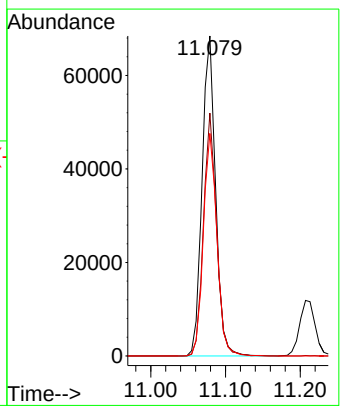
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

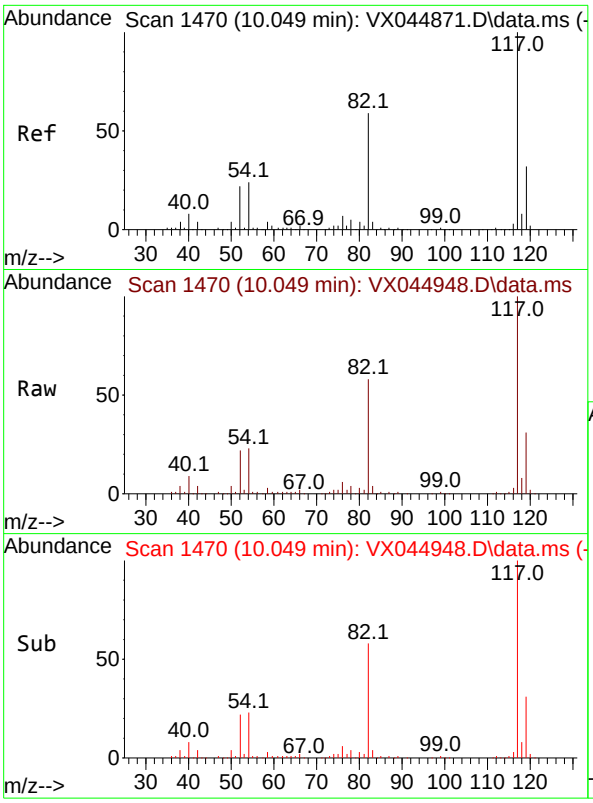


#62
4-Bromofluorobenzene
Concen: 53.134 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 95 Resp: 85808

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	142.6
176	70.0	0.0	141.6

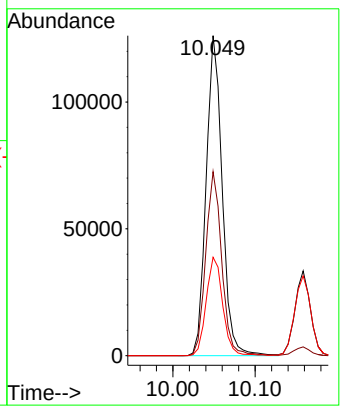




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:117 Resp: 17116

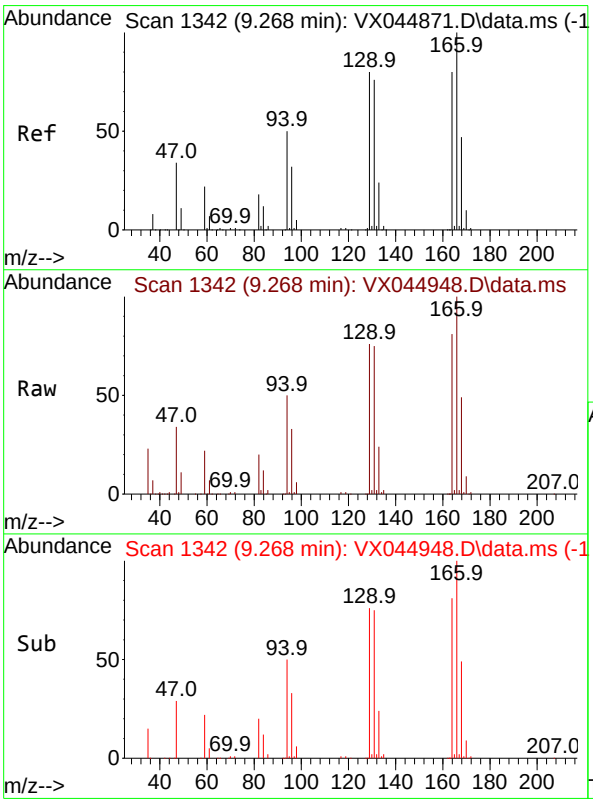
Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.5	71.3
119	30.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

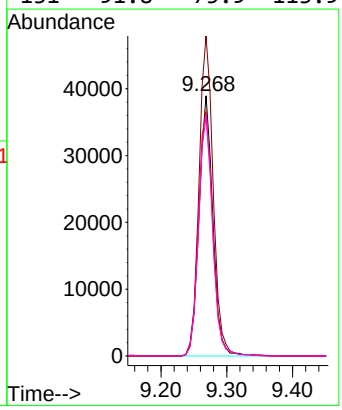
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

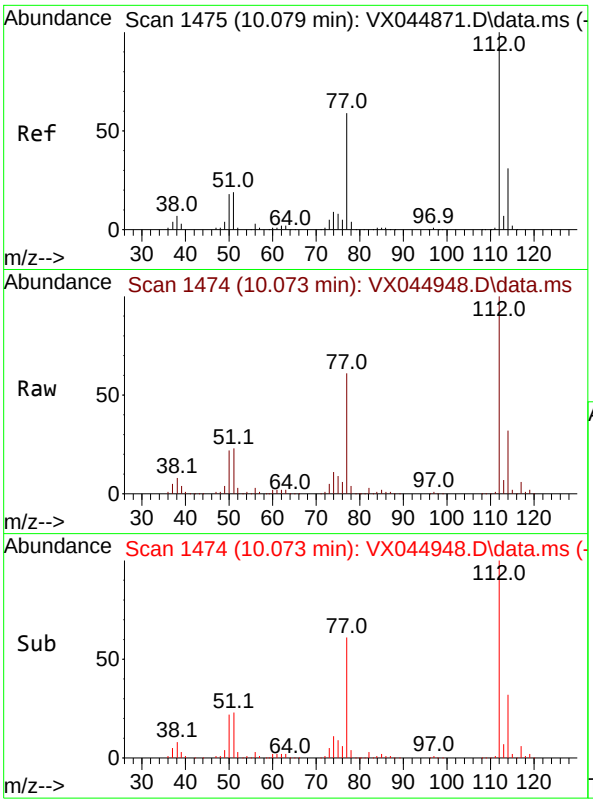


#64
Tetrachloroethene
Concen: 52.606 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:164 Resp: 56785

Ion	Ratio	Lower	Upper
164	100		
166	123.0	100.4	150.6
129	93.9	79.9	119.9
131	91.8	75.9	113.9

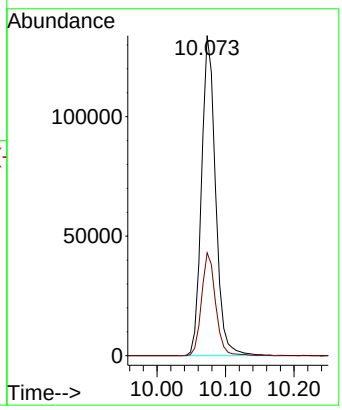




#65
Chlorobenzene
Concen: 52.037 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:112 Resp: 19130

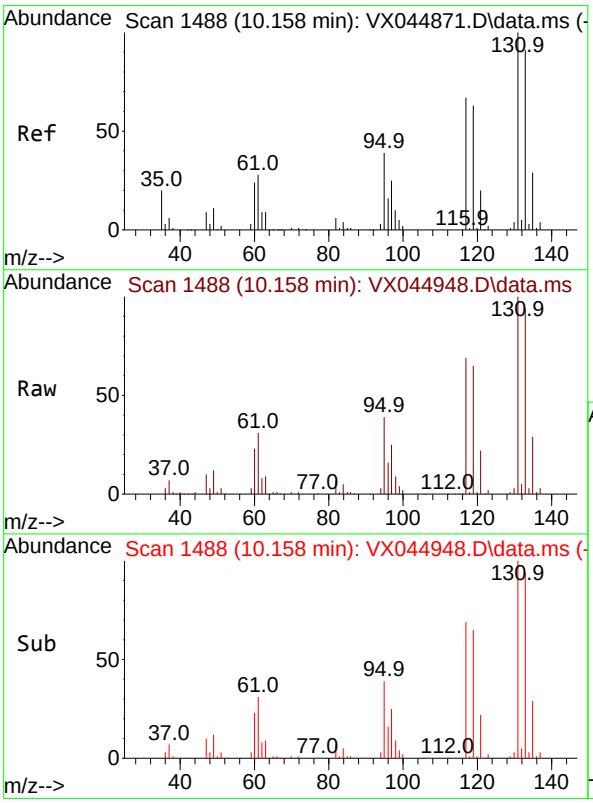
Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

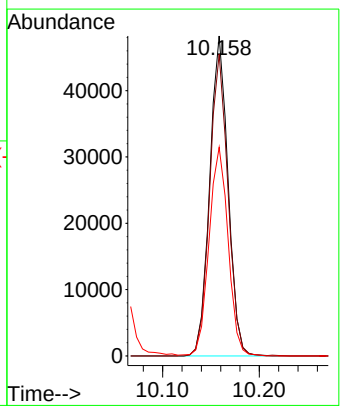
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

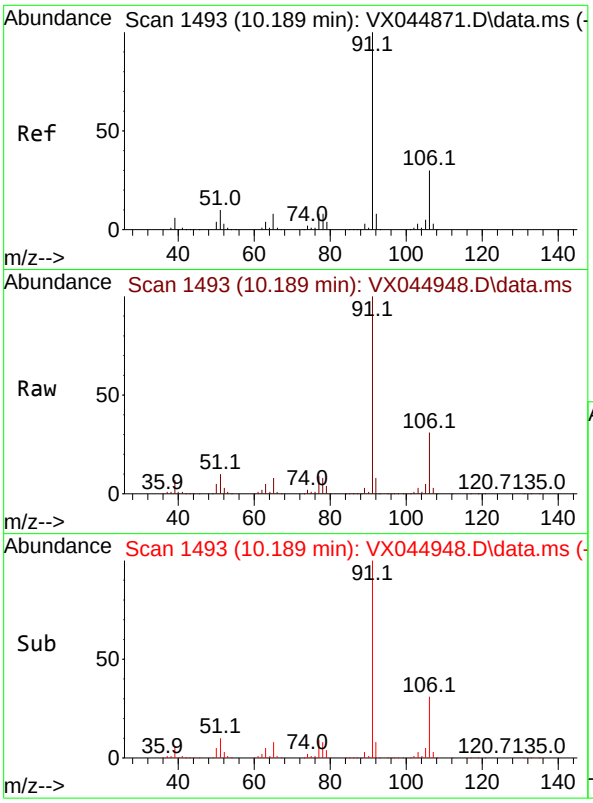


#66
1,1,1,2-Tetrachloroethane
Concen: 53.691 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:131 Resp: 63533

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.1	141.3
119	68.0	33.6	100.6

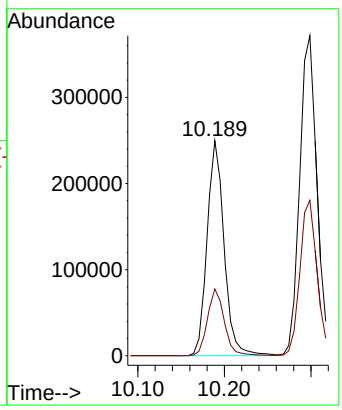




#67
Ethyl Benzene
Concen: 52.604 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 91 Resp: 34127

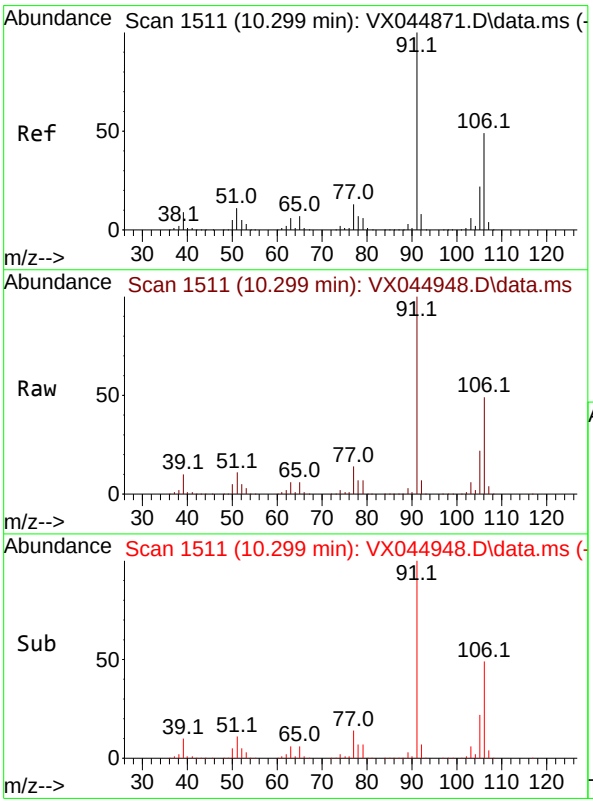
Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

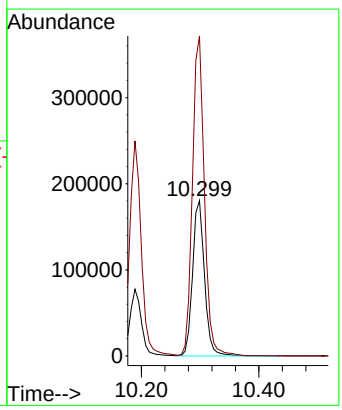
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

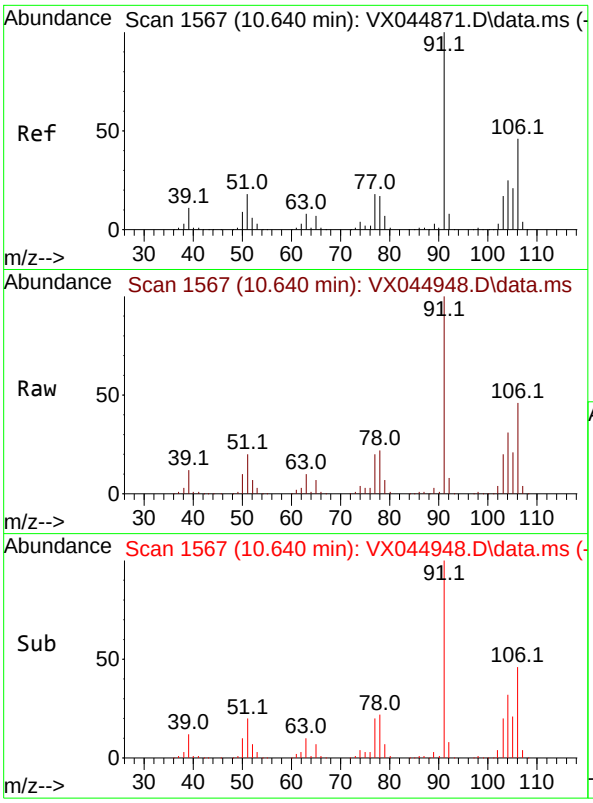


#68
m/p-Xylenes
Concen: 105.747 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:106 Resp: 253071

Ion	Ratio	Lower	Upper
106	100		
91	207.1	164.3	246.5

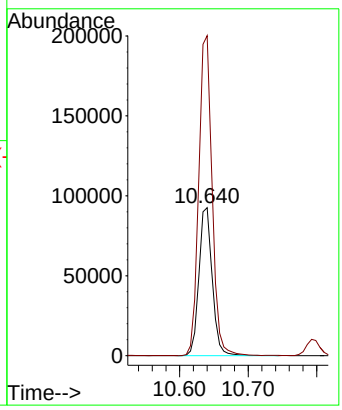




#69
o-Xylene
Concen: 52.257 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:106 Resp: 12548

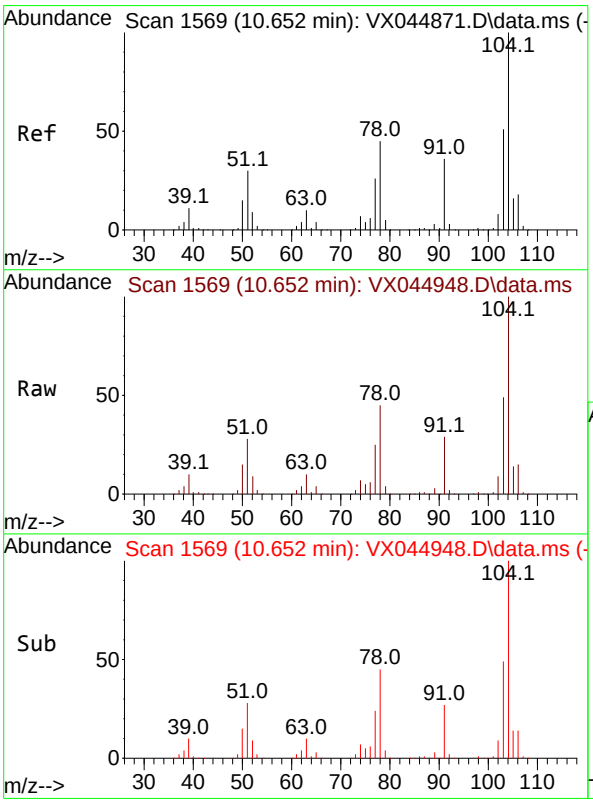
Ion	Ratio	Lower	Upper
106	100		
91	217.0	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

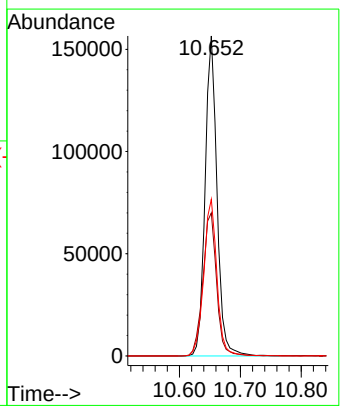
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

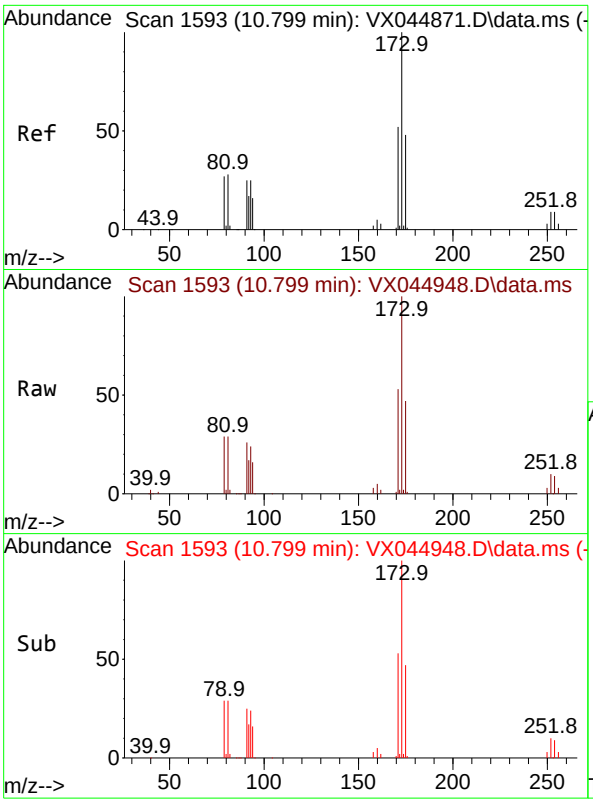


#70
Styrene
Concen: 55.028 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:104 Resp: 212892

Ion	Ratio	Lower	Upper
104	100		
78	51.6	40.5	60.7
103	54.2	43.6	65.4

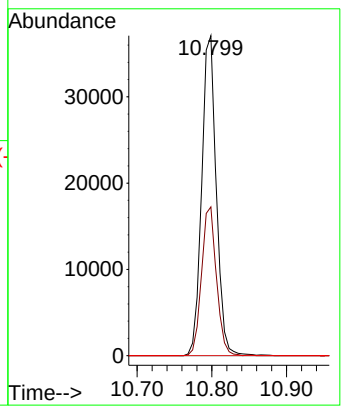




#71
Bromoform
Concen: 56.956 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

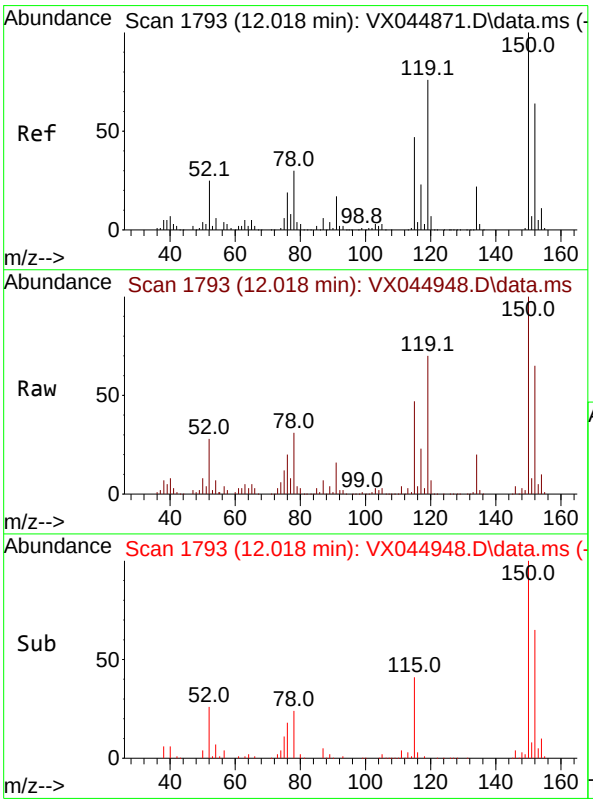
Tgt Ion:173 Resp: 5029

Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

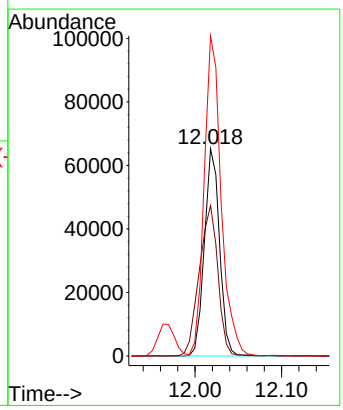
Manual Integrations APPROVED
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

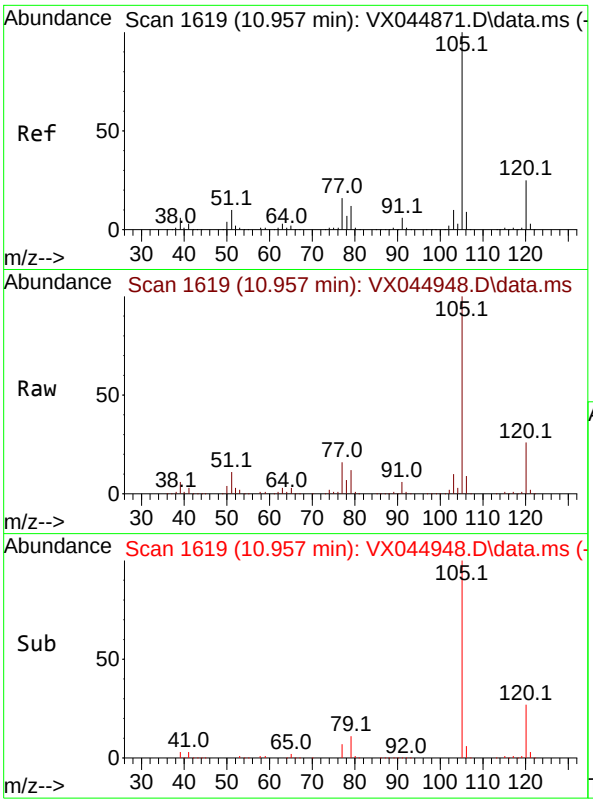


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:152 Resp: 79140

Ion	Ratio	Lower	Upper
152	100		
115	89.1	43.4	130.1
150	172.5	0.0	350.4





#73
Isopropylbenzene
Concen: 50.759 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

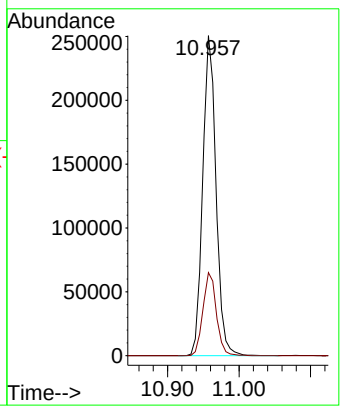
Tgt Ion:105 Resp: 32345

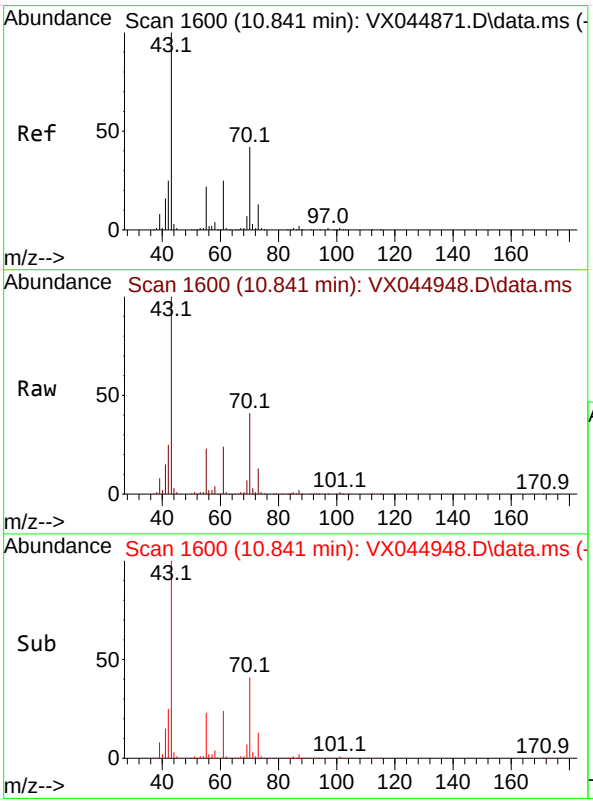
Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

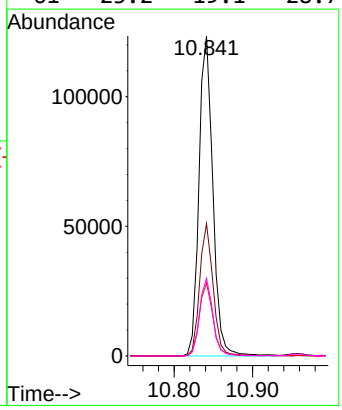


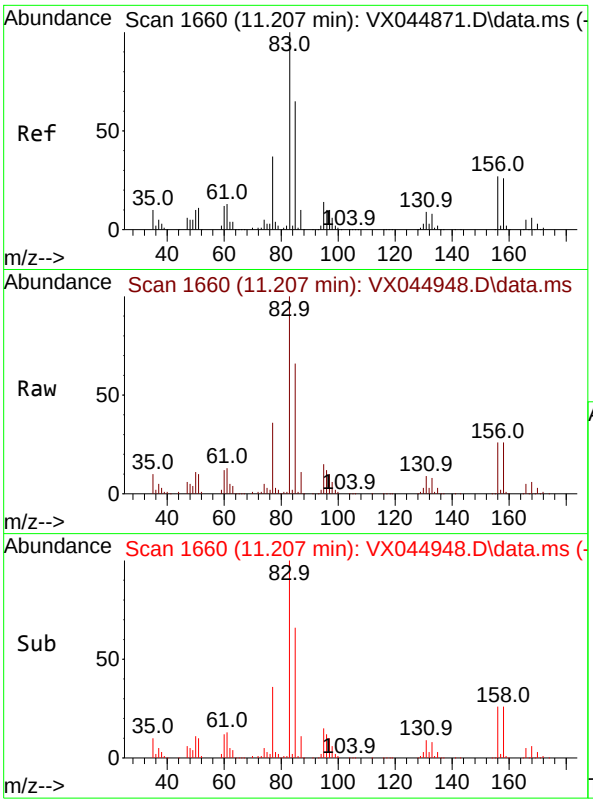


#74
N-amyl acetate
Concen: 52.711 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 151995

Ion	Ratio	Lower	Upper
43	100		
70	40.1	33.7	50.5
55	22.8	18.6	27.8
61	23.2	19.1	28.7

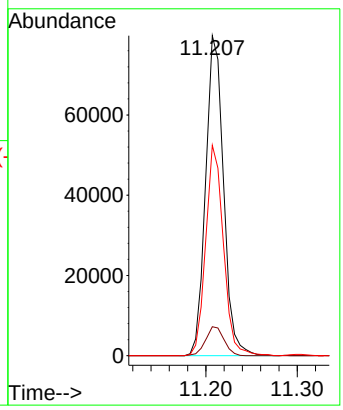




#75
1,1,2,2-Tetrachloroethane
Concen: 49.450 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 83 Resp: 10828

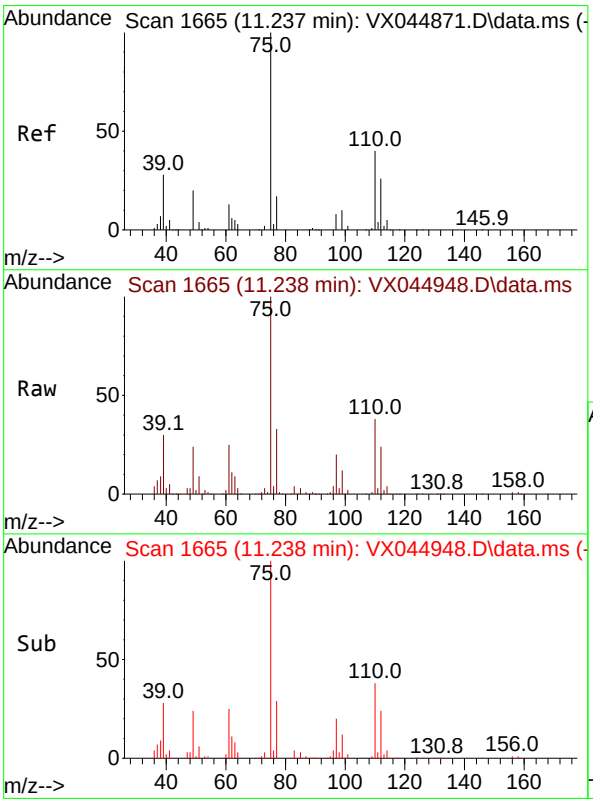
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.5
85	65.1	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

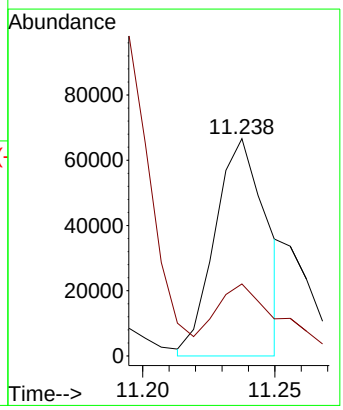
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

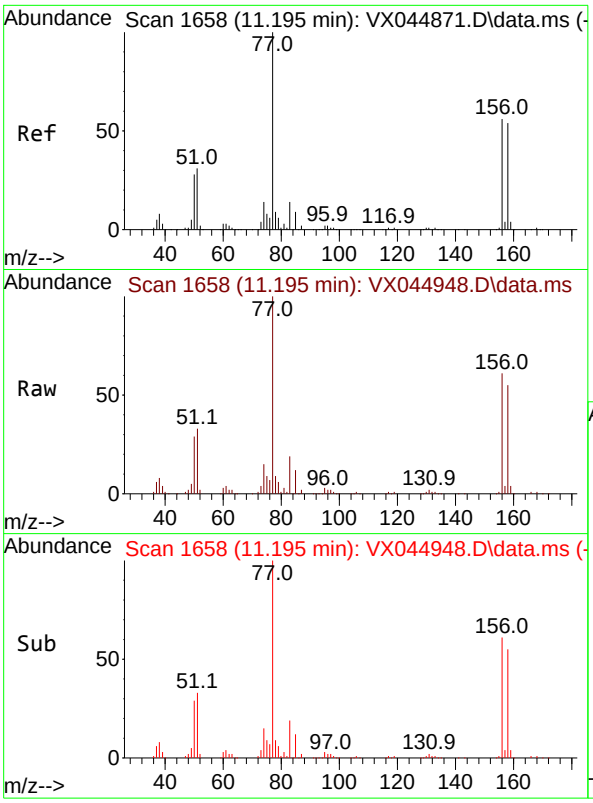


#76
1,2,3-Trichloropropane
Concen: 51.210 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 89855

Ion	Ratio	Lower	Upper
75	100		
77	42.6	21.9	65.7





#77
Bromobenzene
Concen: 51.785 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

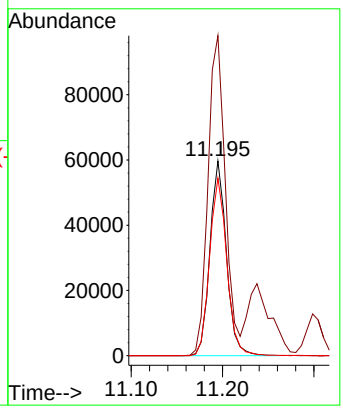
Tgt Ion:156 Resp: 7481

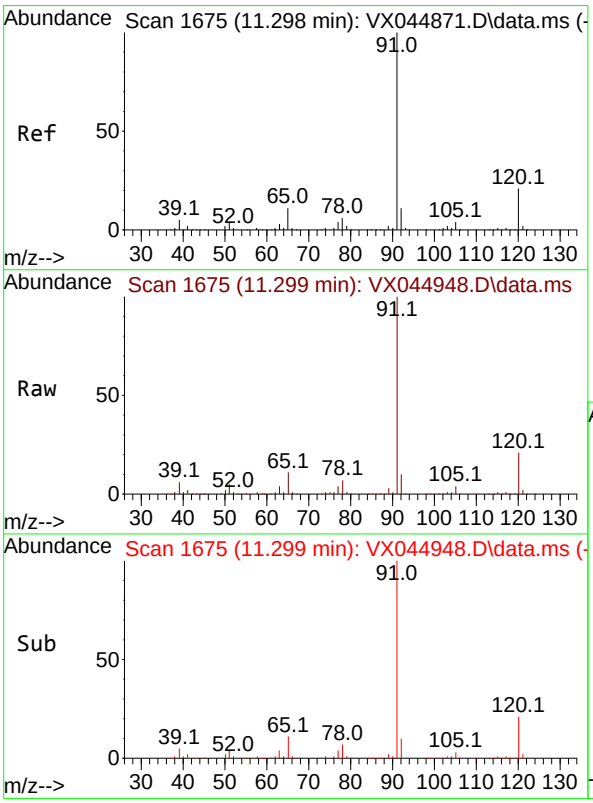
Ion	Ratio	Lower	Upper
156	100		
77	172.6	88.4	265.3
158	95.3	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

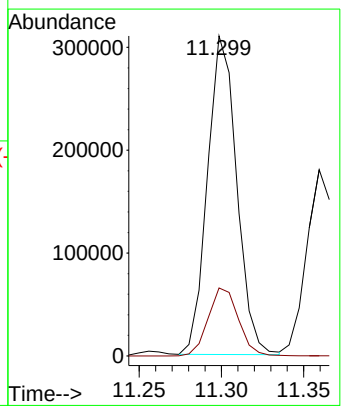


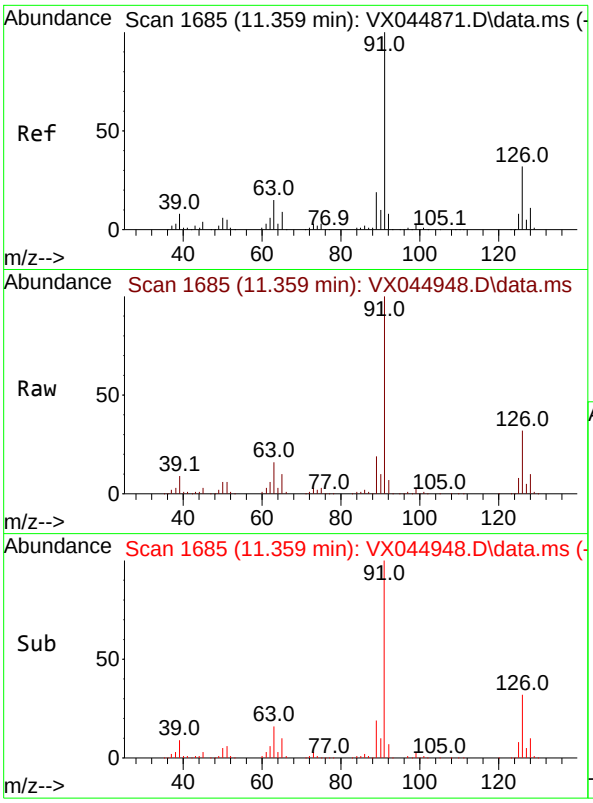


#78
n-propylbenzene
Concen: 52.104 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 91 Resp: 383227

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3

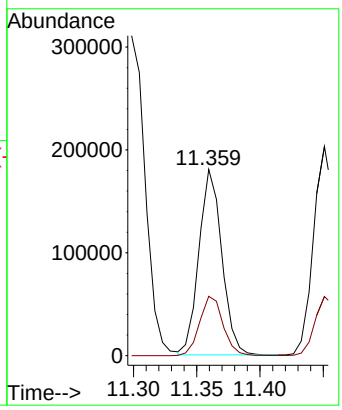




#79
2-Chlorotoluene
Concen: 50.293 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 91 Resp: 22734

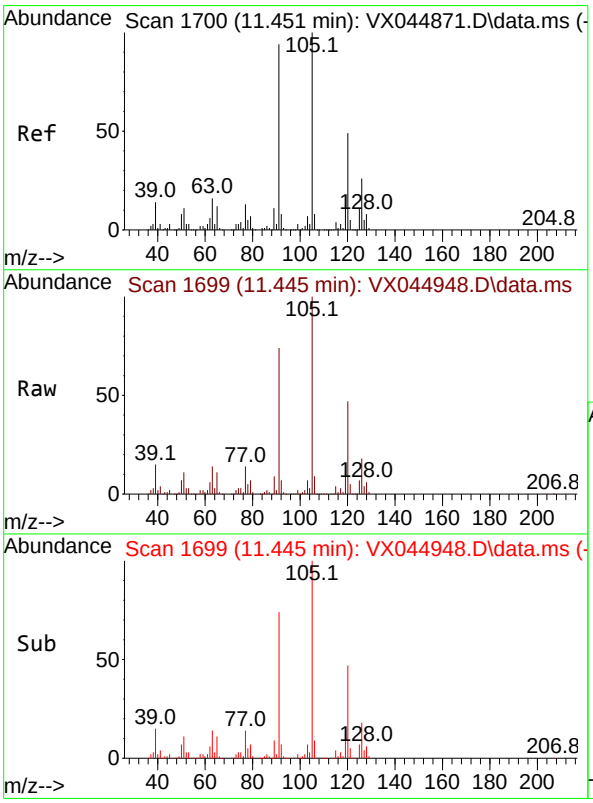
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

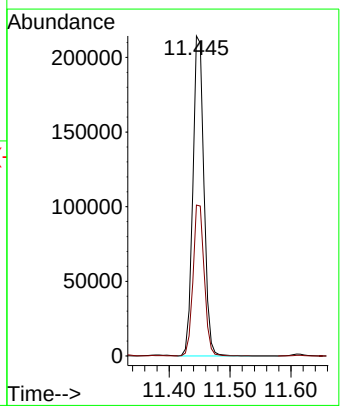
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

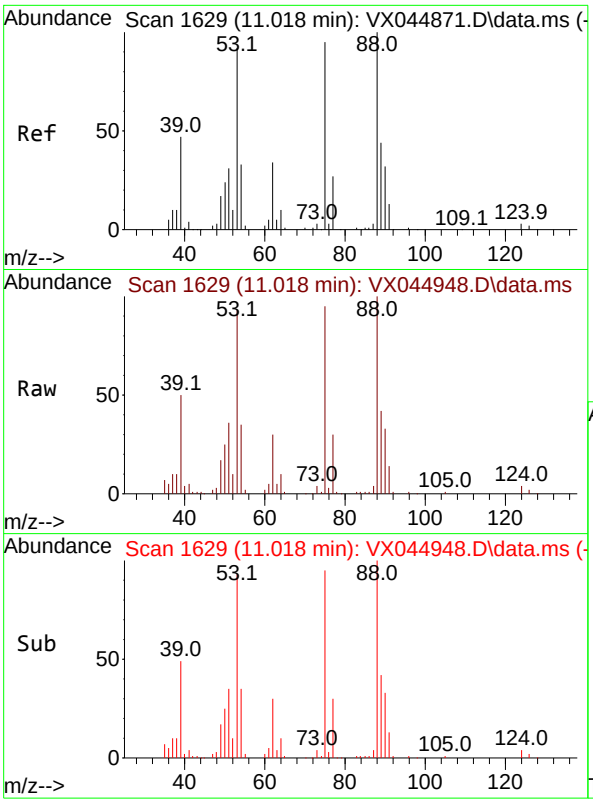


#80
1,3,5-Trimethylbenzene
Concen: 52.135 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:105 Resp: 269593

Ion	Ratio	Lower	Upper
105	100		
120	47.7	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 50.555 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

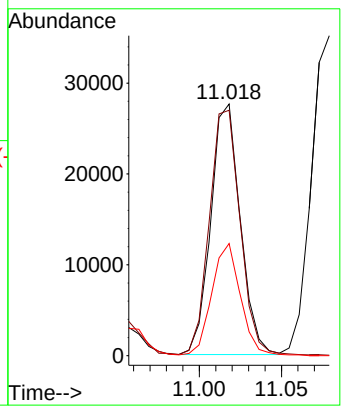
Tgt Ion: 75 Resp: 3448

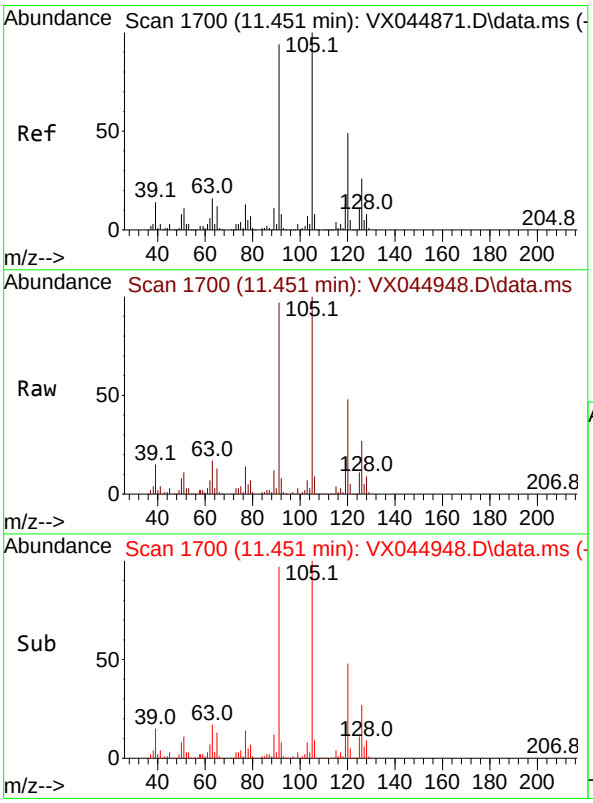
Ion	Ratio	Lower	Upper
75	100		
53	103.0	78.0	117.0
89	43.6	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

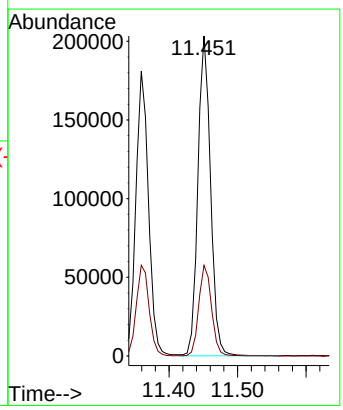


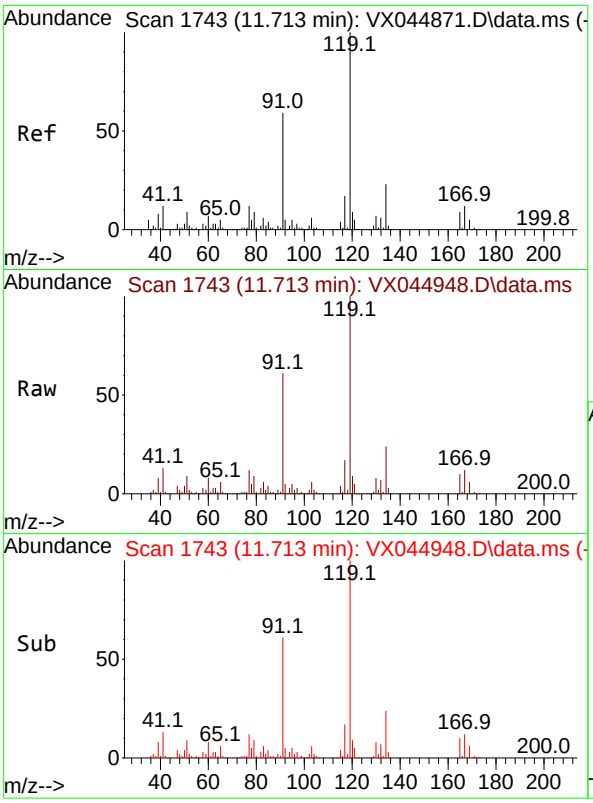


#82
4-Chlorotoluene
Concen: 52.037 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 91 Resp: 260241

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6

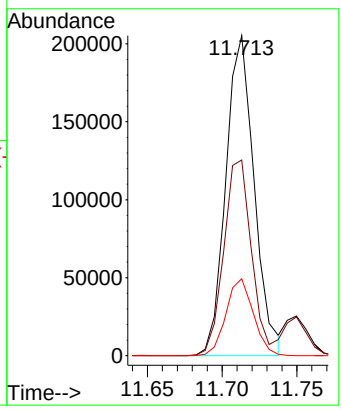




#83
tert-Butylbenzene
Concen: 51.808 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:119 Resp: 27102

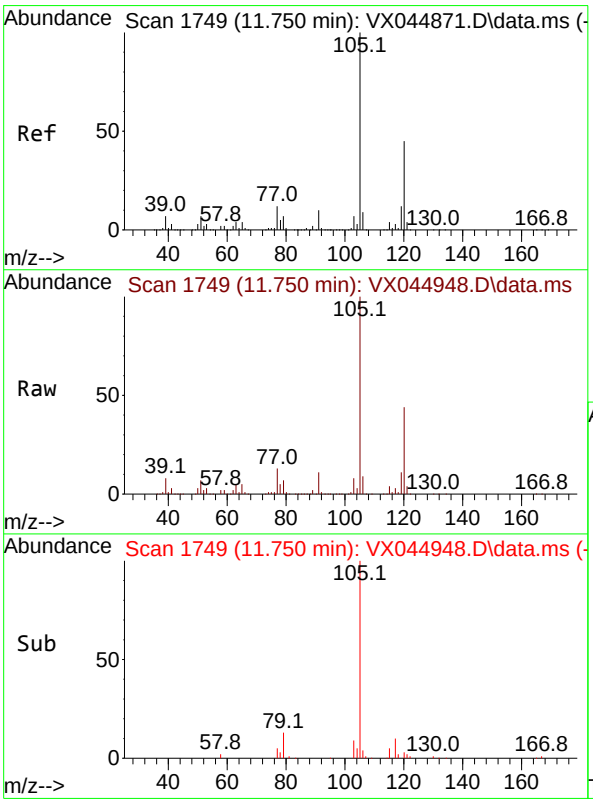
Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.1	87.4
134	23.1	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

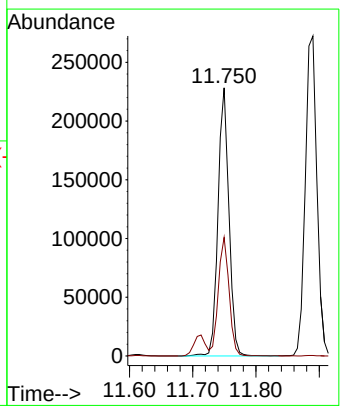
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

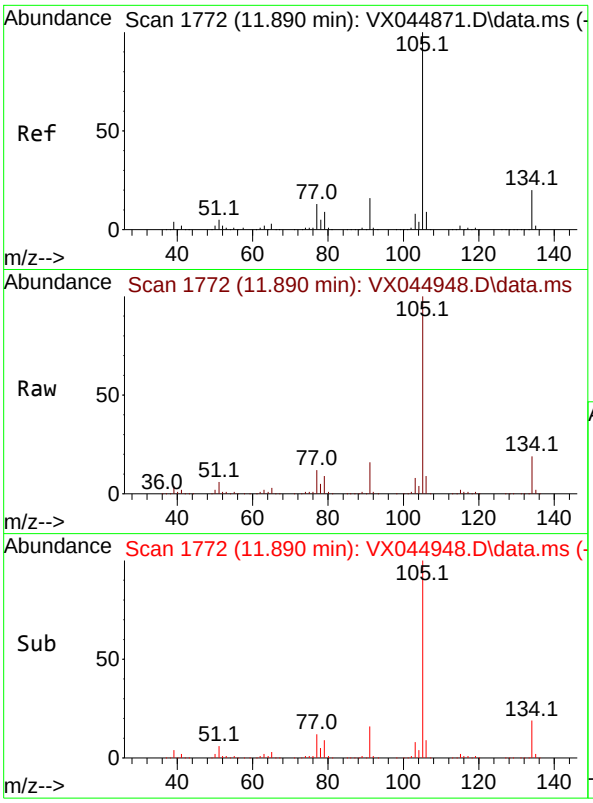


#84
1,2,4-Trimethylbenzene
Concen: 53.576 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:105 Resp: 273444

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.4	67.0

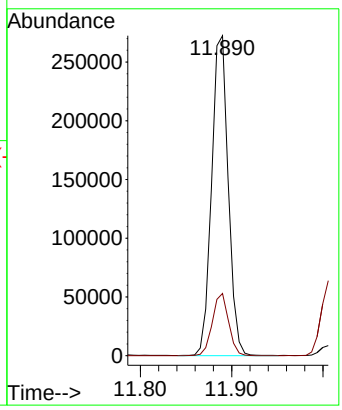




#85
sec-Butylbenzene
Concen: 53.285 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:105 Resp: 34517

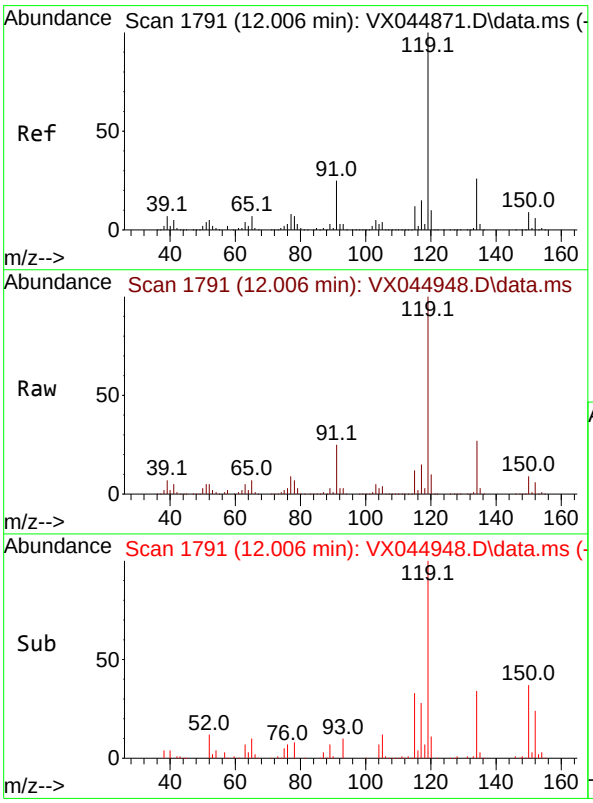
Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

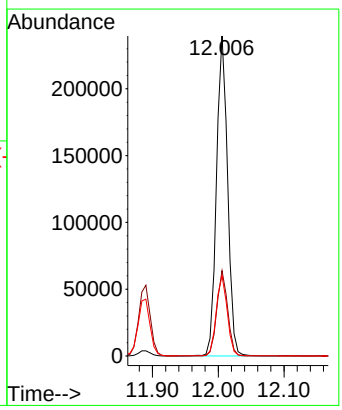
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

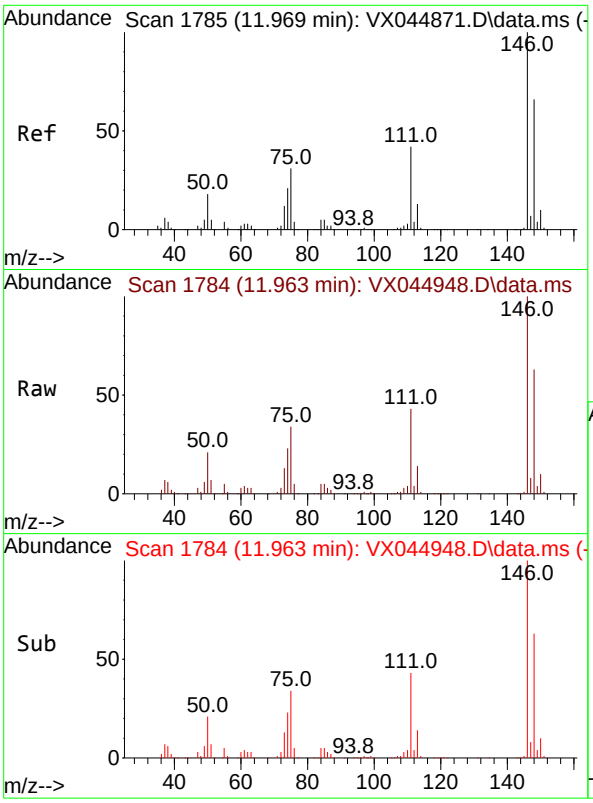


#86
p-Isopropyltoluene
Concen: 53.974 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:119 Resp: 281168

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	24.8	12.1	36.3

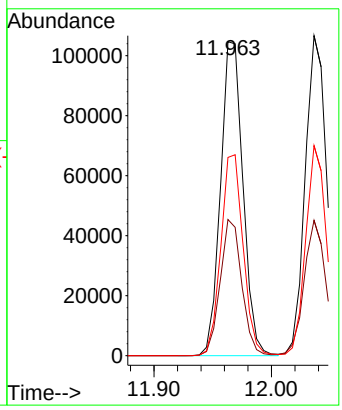




#87
1,3-Dichlorobenzene
Concen: 52.302 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:146 Resp: 13895

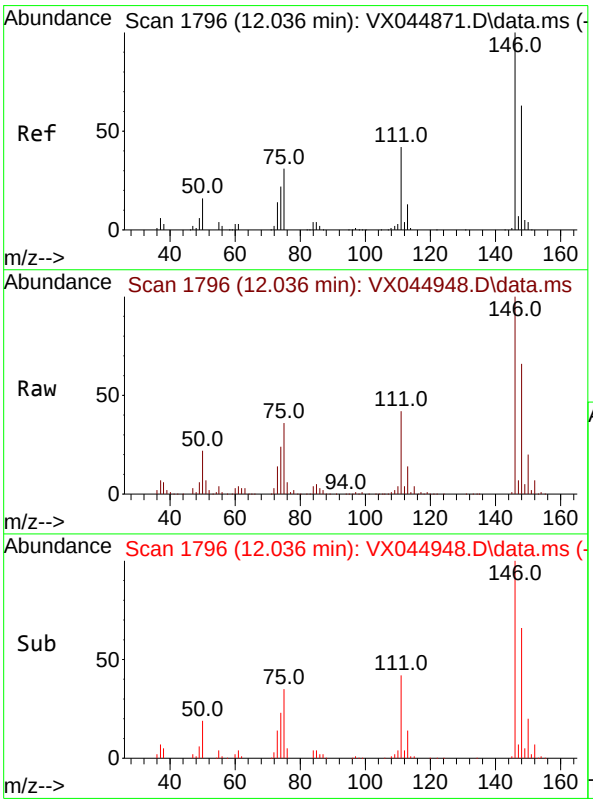
Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.2	63.6
148	63.8	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

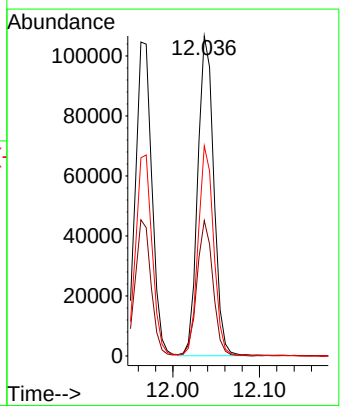
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

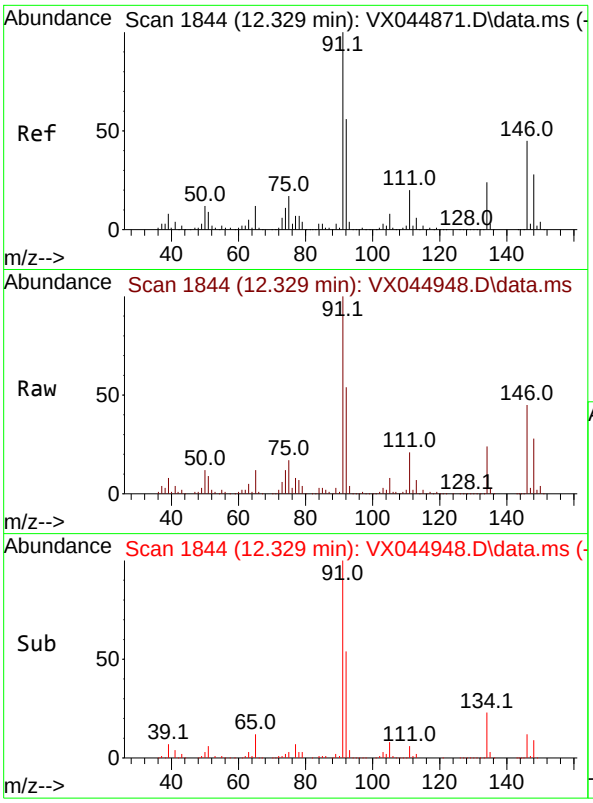


#88
1,4-Dichlorobenzene
Concen: 51.107 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:146 Resp: 137282

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.4	61.3
148	63.2	32.0	96.0

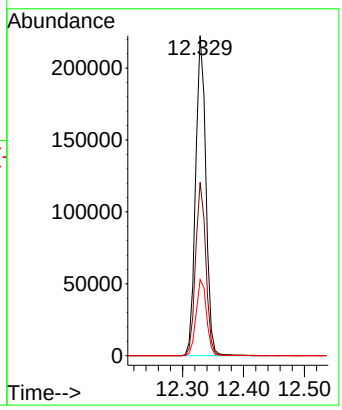




#89
n-Butylbenzene
Concen: 56.406 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 91 Resp: 25995

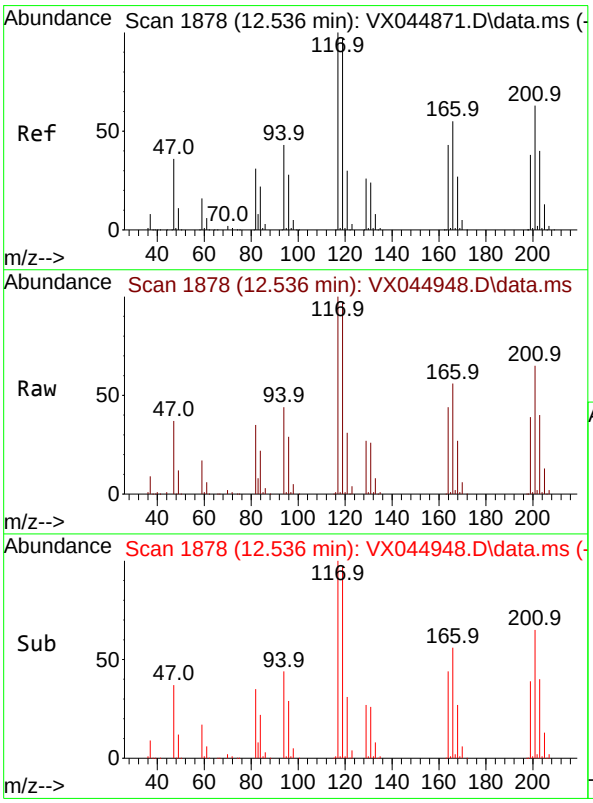
Ion	Ratio	Lower	Upper
91	100		
92	54.0	27.2	81.6
134	24.3	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

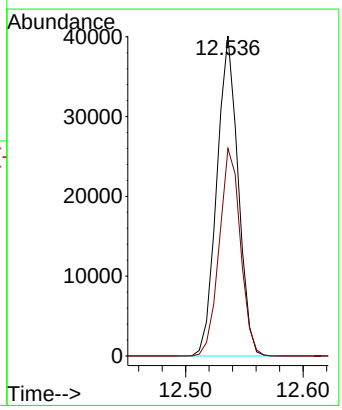
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

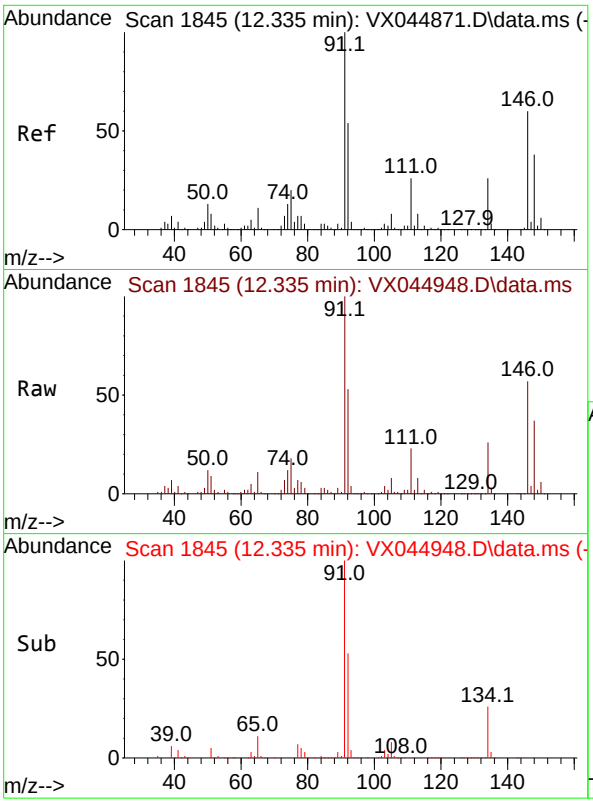


#90
Hexachloroethane
Concen: 51.715 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:117 Resp: 50444

Ion	Ratio	Lower	Upper
117	100		
201	64.6	32.5	97.5

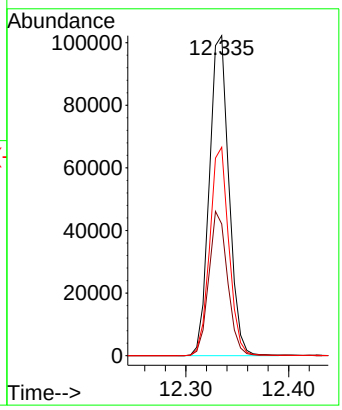




#91
1,2-Dichlorobenzene
Concen: 51.683 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:146 Resp: 13494

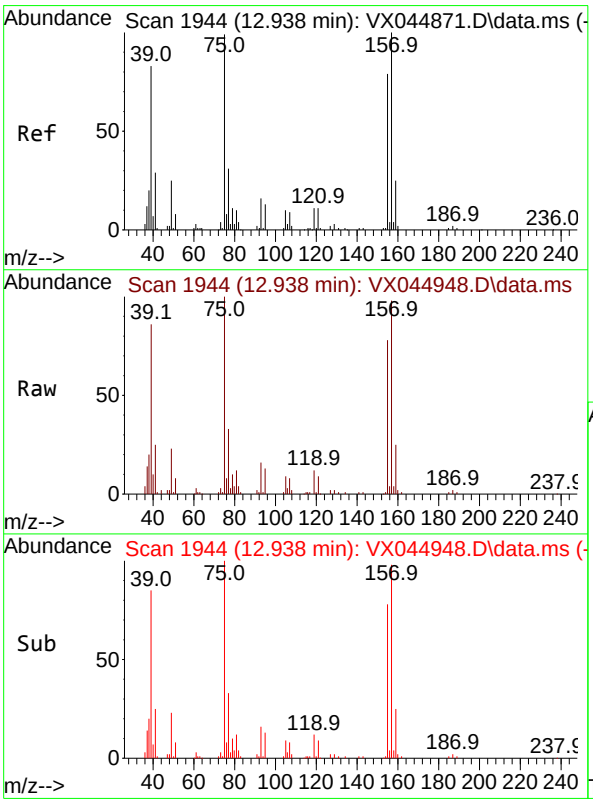
Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.8	65.4
148	63.8	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

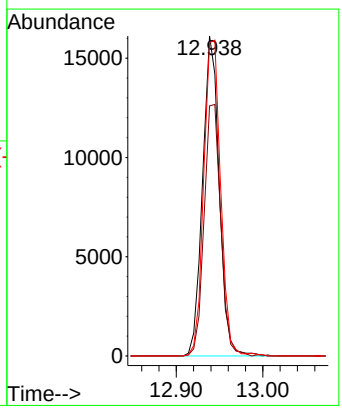
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

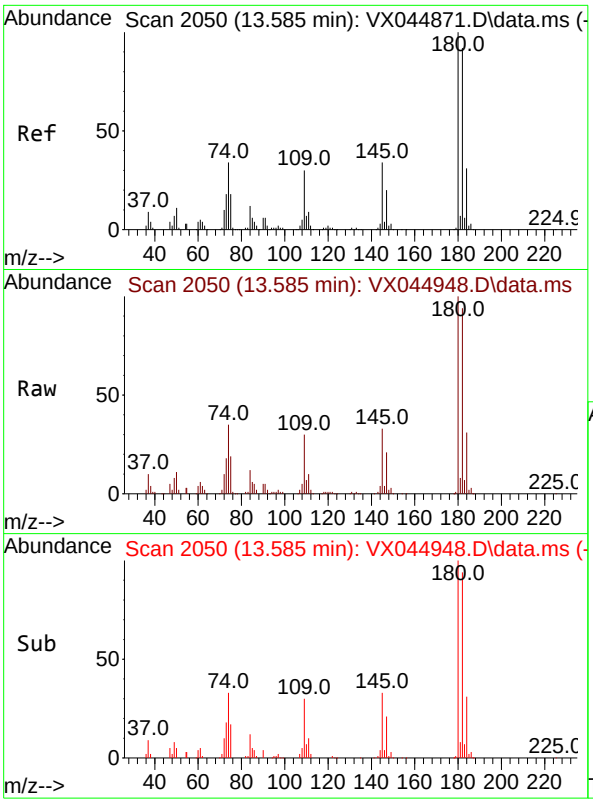


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.715 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 21467

Ion	Ratio	Lower	Upper
75	100		
155	78.7	40.5	121.4
157	100.5	51.4	154.3

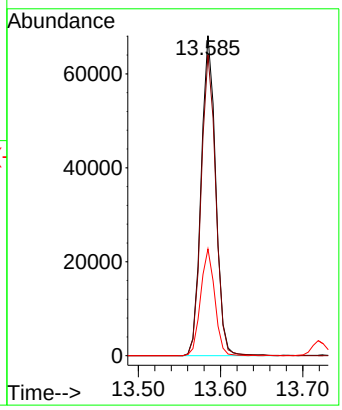




#93
1,2,4-Trichlorobenzene
Concen: 52.814 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:180 Resp: 8344

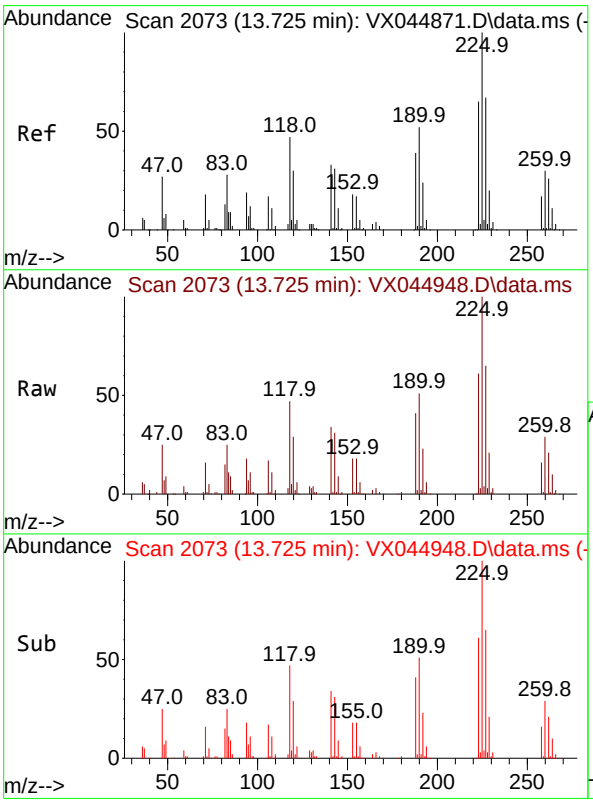
Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.6	142.8
145	32.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

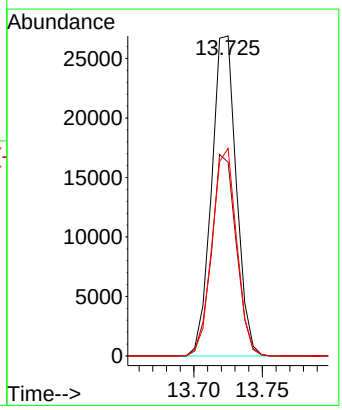
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

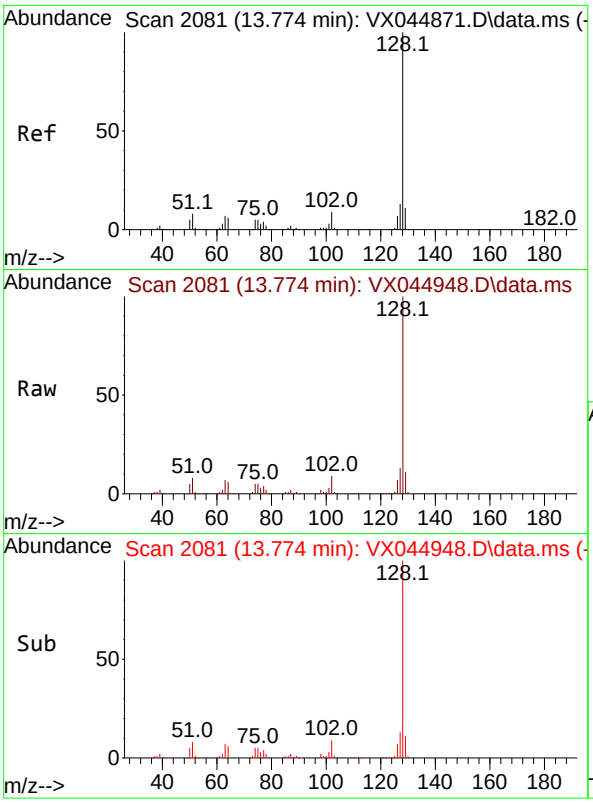


#94
Hexachlorobutadiene
Concen: 53.707 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:225 Resp: 33686

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.2
227	64.5	32.3	96.8

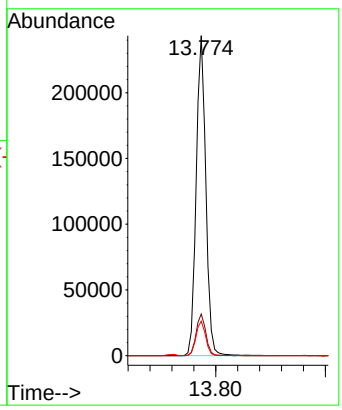




#95
Naphthalene
Concen: 52.263 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:128 Resp: 29849

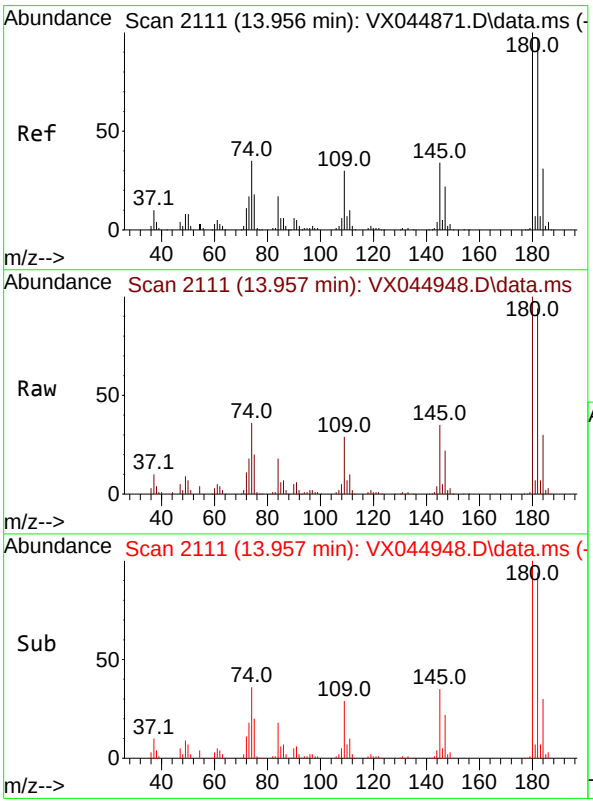
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.1	15.1
129	10.9	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

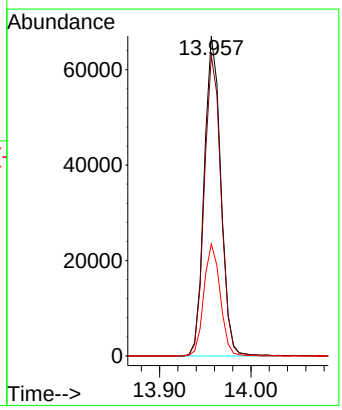
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.918 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:180 Resp: 84247

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.9	143.6
145	34.4	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	87	0.00
2	T	Dichlorodifluoromethane	0.701	0.746	-6.4	93	0.00
3	P	Chloromethane	0.854	0.855	-0.1	88	0.00
4	C	Vinyl Chloride	0.827	0.803	2.9#	87	0.00
5	T	Bromomethane	0.247	0.285	-15.4	100	0.00
6	T	Chloroethane	0.307	0.432	-40.7#	110	0.00
7	T	Trichlorofluoromethane	1.046	1.097	-4.9	93	0.00
8	T	Diethyl Ether	0.379	0.394	-4.0	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.656	-3.8	92	0.00
10	T	Methyl Iodide	0.819	0.868	-6.0	89	0.00
11	T	Tert butyl alcohol	0.136	0.134	1.5	85	-0.01
12	CM	1,1-Dichloroethene	0.644	0.637	1.1#	88	0.00
13	T	Acrolein	0.140	0.153	-9.3	94	0.00
14	T	Allyl chloride	1.165	1.167	-0.2	88	0.00
15	T	Acrylonitrile	0.363	0.378	-4.1	87	0.00
16	T	Acetone	0.294	0.310	-5.4	92	0.00
17	T	Carbon Disulfide	1.767	1.631	7.7	81	0.00
18	T	Methyl Acetate	0.928	0.982	-5.8	91	0.00
19	T	Methyl tert-butyl Ether	2.050	2.063	-0.6	88	0.00
20	T	Methylene Chloride	0.721	0.709	1.7	88	0.00
21	T	trans-1,2-Dichloroethene	0.634	0.627	1.1	85	0.00
22	T	Diisopropyl ether	2.203	2.293	-4.1	89	0.00
23	T	Vinyl Acetate	1.796	1.866	-3.9	88	0.00
24	P	1,1-Dichloroethane	1.233	1.248	-1.2	89	0.00
25	T	2-Butanone	0.478	0.507	-6.1	87	0.00
26	T	2,2-Dichloropropane	0.978	0.973	0.5	89	-0.01
27	T	cis-1,2-Dichloroethene	0.762	0.762	0.0	88	0.00
28	T	Bromochloromethane	0.593	0.594	-0.2	89	0.00
29	T	Tetrahydrofuran	0.317	0.328	-3.5	87	-0.01
30	C	Chloroform	1.196	1.212	-1.3#	90	0.00
31	T	Cyclohexane	1.137	1.103	3.0	86	0.00
32	T	1,1,1-Trichloroethane	1.014	1.027	-1.3	89	0.00
33	S	1,2-Dichloroethane-d4	0.732	0.726	0.8	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	83	0.00
35	S	Dibromofluoromethane	0.325	0.335	-3.1	87	0.00
36	T	1,1-Dichloropropene	0.469	0.475	-1.3	86	0.00
37	T	Ethyl Acetate	0.522	0.551	-5.6	87	0.00
38	T	Carbon Tetrachloride	0.460	0.493	-7.2	91	0.00
39	T	Methylcyclohexane	0.606	0.650	-7.3	87	0.00
40	TM	Benzene	1.465	1.515	-3.4	86	0.00
41	T	Methacrylonitrile	0.279	0.321	-15.1	89	0.00
42	TM	1,2-Dichloroethane	0.467	0.510	-9.2	90	0.00
43	T	Isopropyl Acetate	0.842	0.914	-8.6	87	0.00
44	TM	Trichloroethene	0.335	0.353	-5.4	88	0.00
45	C	1,2-Dichloropropane	0.364	0.380	-4.4#	86	0.00
46	T	Dibromomethane	0.253	0.267	-5.5	87	0.00
47	T	Bromodichloromethane	0.489	0.537	-9.8	90	0.00
48	T	Methyl methacrylate	0.397	0.433	-9.1	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	85	0.00
50	S	Toluene-d8	1.229	1.231	-0.2	83	0.00
51	T	4-Methyl-2-Pentanone	0.512	0.589	-15.0	89	0.00
52	CM	Toluene	0.872	0.912	-4.6#	85	0.00
53	T	t-1,3-Dichloropropene	0.495	0.526	-6.3	85	0.00
54	T	cis-1,3-Dichloropropene	0.552	0.593	-7.4	86	0.00
55	T	1,1,2-Trichloroethane	0.335	0.359	-7.2	88	0.00
56	T	Ethyl methacrylate	0.542	0.582	-7.4	84	0.00
57	T	1,3-Dichloropropane	0.587	0.630	-7.3	87	0.00
58	T	2-Chloroethyl Vinyl ether	0.266	0.289	-8.6	84	0.00
59	T	2-Hexanone	0.369	0.430	-16.5	89	0.00
60	T	Dibromochloromethane	0.359	0.395	-10.0	88	0.00
61	T	1,2-Dibromoethane	0.340	0.361	-6.2	86	0.00
62	S	4-Bromofluorobenzene	0.414	0.440	-6.3	85	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64	T	Tetrachloroethene	0.315	0.332	-5.4	89	0.00
65	PM	Chlorobenzene	1.074	1.118	-4.1	85	0.00
66	T	1,1,1,2-Tetrachloroethane	0.346	0.371	-7.2	88	0.00
67	C	Ethyl Benzene	1.895	1.994	-5.2#	86	0.00
68	T	m/p-Xylenes	0.699	0.739	-5.7	85	0.00
69	T	o-Xylene	0.701	0.733	-4.6	87	0.00
70	T	Styrene	1.130	1.244	-10.1	87	0.00
71	P	Bromoform	0.258	0.294	-14.0	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
73	T	Isopropylbenzene	4.026	4.087	-1.5	86	0.00
74	T	N-amyl acetate	1.822	1.921	-5.4	86	0.00
75	P	1,1,2,2-Tetrachloroethane	1.383	1.368	1.1	86	0.00
76	T	1,2,3-Trichloropropane	1.109	1.135	-2.3	88	0.00
77	T	Bromobenzene	0.913	0.945	-3.5	89	0.00
78	T	n-propylbenzene	4.647	4.842	-4.2	88	0.00
79	T	2-Chlorotoluene	2.856	2.873	-0.6	86	0.00
80	T	1,3,5-Trimethylbenzene	3.267	3.407	-4.3	88	0.00
81	T	trans-1,4-Dichloro-2-butene	0.431	0.436	-1.2	85	0.00
82	T	4-Chlorotoluene	3.160	3.288	-4.1	88	0.00
83	T	tert-Butylbenzene	3.305	3.425	-3.6	88	0.00
84	T	1,2,4-Trimethylbenzene	3.225	3.455	-7.1	88	0.00
85	T	sec-Butylbenzene	4.093	4.362	-6.6	90	0.00
86	T	p-Isopropyltoluene	3.291	3.553	-8.0	89	0.00
87	T	1,3-Dichlorobenzene	1.678	1.756	-4.6	89	0.00
88	T	1,4-Dichlorobenzene	1.697	1.735	-2.2	88	0.00
89	T	n-Butylbenzene	2.912	3.285	-12.8	90	0.00
90	T	Hexachloroethane	0.616	0.637	-3.4	89	0.00
91	T	1,2-Dichlorobenzene	1.650	1.705	-3.3	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.252	0.271	-7.5	90	0.00
93	T	1,2,4-Trichlorobenzene	0.998	1.054	-5.6	89	0.00
94	T	Hexachlorobutadiene	0.396	0.426	-7.6	95	0.00
95	T	Naphthalene	3.608	3.772	-4.5	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.006	1.065	-5.9	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	87	0.00
2	T	Dichlorodifluoromethane	50.000	53.216	-6.4	93	0.00
3	P	Chloromethane	50.000	50.063	-0.1	88	0.00
4	C	Vinyl Chloride	50.000	48.568	2.9#	87	0.00
5	T	Bromomethane	50.000	57.519	-15.0	100	0.00
6	T	Chloroethane	50.000	75.147	-50.3#	110	0.00
7	T	Trichlorofluoromethane	50.000	52.436	-4.9	93	0.00
8	T	Diethyl Ether	50.000	52.000	-4.0	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.947	-3.9	92	0.00
10	T	Methyl Iodide	50.000	52.995	-6.0	89	0.00
11	T	Tert butyl alcohol	250.000	245.988	1.6	85	-0.01
12	CM	1,1-Dichloroethene	50.000	49.386	1.2#	88	0.00
13	T	Acrolein	250.000	272.483	-9.0	94	0.00
14	T	Allyl chloride	50.000	50.110	-0.2	88	0.00
15	T	Acrylonitrile	250.000	260.443	-4.2	87	0.00
16	T	Acetone	250.000	263.641	-5.5	92	0.00
17	T	Carbon Disulfide	50.000	46.138	7.7	81	0.00
18	T	Methyl Acetate	50.000	52.872	-5.7	91	0.00
19	T	Methyl tert-butyl Ether	50.000	50.309	-0.6	88	0.00
20	T	Methylene Chloride	50.000	49.206	1.6	88	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.443	1.1	85	0.00
22	T	Diisopropyl ether	50.000	52.025	-4.0	89	0.00
23	T	Vinyl Acetate	250.000	259.654	-3.9	88	0.00
24	P	1,1-Dichloroethane	50.000	50.620	-1.2	89	0.00
25	T	2-Butanone	250.000	265.167	-6.1	87	0.00
26	T	2,2-Dichloropropane	50.000	49.758	0.5	89	-0.01
27	T	cis-1,2-Dichloroethene	50.000	50.033	-0.1	88	0.00
28	T	Bromochloromethane	50.000	50.132	-0.3	89	0.00
29	T	Tetrahydrofuran	250.000	258.456	-3.4	87	-0.01
30	C	Chloroform	50.000	50.664	-1.3#	90	0.00
31	T	Cyclohexane	50.000	48.511	3.0	86	0.00
32	T	1,1,1-Trichloroethane	50.000	50.622	-1.2	89	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.577	0.8	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	83	0.00
35	S	Dibromofluoromethane	50.000	51.473	-2.9	87	0.00
36	T	1,1-Dichloropropene	50.000	50.648	-1.3	86	0.00
37	T	Ethyl Acetate	50.000	52.854	-5.7	87	0.00
38	T	Carbon Tetrachloride	50.000	53.647	-7.3	91	0.00
39	T	Methylcyclohexane	50.000	53.611	-7.2	87	0.00
40	TM	Benzene	50.000	51.720	-3.4	86	0.00
41	T	Methacrylonitrile	50.000	57.439	-14.9	89	0.00
42	TM	1,2-Dichloroethane	50.000	54.630	-9.3	90	0.00
43	T	Isopropyl Acetate	50.000	54.238	-8.5	87	0.00
44	TM	Trichloroethene	50.000	52.686	-5.4	88	0.00
45	C	1,2-Dichloropropane	50.000	52.086	-4.2#	86	0.00
46	T	Dibromomethane	50.000	52.910	-5.8	87	0.00
47	T	Bromodichloromethane	50.000	54.897	-9.8	90	0.00
48	T	Methyl methacrylate	50.000	54.559	-9.1	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1079.521	-8.0	85	0.00
50	S	Toluene-d8	50.000	50.081	-0.2	83	0.00
51	T	4-Methyl-2-Pentanone	250.000	287.542	-15.0	89	0.00
52	CM	Toluene	50.000	52.259	-4.5#	85	0.00
53	T	t-1,3-Dichloropropene	50.000	53.088	-6.2	85	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.670	-7.3	86	0.00
55	T	1,1,2-Trichloroethane	50.000	53.569	-7.1	88	0.00
56	T	Ethyl methacrylate	50.000	53.714	-7.4	84	0.00
57	T	1,3-Dichloropropane	50.000	53.730	-7.5	87	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	271.549	-8.6	84	0.00
59	T	2-Hexanone	250.000	291.536	-16.6	89	0.00
60	T	Dibromochloromethane	50.000	55.049	-10.1	88	0.00
61	T	1,2-Dibromoethane	50.000	53.050	-6.1	86	0.00
62	S	4-Bromofluorobenzene	50.000	53.134	-6.3	85	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.00
64	T	Tetrachloroethene	50.000	52.606	-5.2	89	0.00
65	PM	Chlorobenzene	50.000	52.037	-4.1	85	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.691	-7.4	88	0.00
67	C	Ethyl Benzene	50.000	52.604	-5.2#	86	0.00
68	T	m/p-Xylenes	100.000	105.747	-5.7	85	0.00
69	T	o-Xylene	50.000	52.257	-4.5	87	0.00
70	T	Styrene	50.000	55.028	-10.1	87	0.00
71	P	Bromoform	50.000	56.956	-13.9	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	85	0.00
73	T	Isopropylbenzene	50.000	50.759	-1.5	86	0.00
74	T	N-amyl acetate	50.000	52.711	-5.4	86	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.450	1.1	86	0.00
76	T	1,2,3-Trichloropropane	50.000	51.210	-2.4	88	0.00
77	T	Bromobenzene	50.000	51.785	-3.6	89	0.00
78	T	n-propylbenzene	50.000	52.104	-4.2	88	0.00
79	T	2-Chlorotoluene	50.000	50.293	-0.6	86	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.135	-4.3	88	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.555	-1.1	85	0.00
82	T	4-Chlorotoluene	50.000	52.037	-4.1	88	0.00
83	T	tert-Butylbenzene	50.000	51.808	-3.6	88	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.576	-7.2	88	0.00
85	T	sec-Butylbenzene	50.000	53.285	-6.6	90	0.00
86	T	p-Isopropyltoluene	50.000	53.974	-7.9	89	0.00
87	T	1,3-Dichlorobenzene	50.000	52.302	-4.6	89	0.00
88	T	1,4-Dichlorobenzene	50.000	51.107	-2.2	88	0.00
89	T	n-Butylbenzene	50.000	56.406	-12.8	90	0.00
90	T	Hexachloroethane	50.000	51.715	-3.4	89	0.00
91	T	1,2-Dichlorobenzene	50.000	51.683	-3.4	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.715	-7.4	90	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.814	-5.6	89	0.00
94	T	Hexachlorobutadiene	50.000	53.707	-7.4	95	0.00
95	T	Naphthalene	50.000	52.263	-4.5	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.918	-5.8	88	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: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG No.: Q1352

Instrument ID: MSVOA_X Calibration Date/Time: 02/14/2025 20:06

Lab File ID: VX044974.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.827	0.791		-4.35	50
1,1-Dichloroethene	0.644	0.650		0.93	50
2-Butanone	0.478	0.578		20.92	50
Carbon Tetrachloride	0.460	0.487		5.87	50
Chloroform	1.196	1.296		8.36	50
Benzene	1.465	1.543		5.32	50
1,2-Dichloroethane	0.467	0.534		14.35	50
Trichloroethene	0.335	0.359		7.16	50
Tetrachloroethene	0.315	0.320		1.59	50
Chlorobenzene	1.074	1.141	0.3	6.24	50
1,2-Dichloroethane-d4	0.732	0.698		-4.64	50
Dibromofluoromethane	0.325	0.301		-7.39	50
Toluene-d8	1.229	1.100		-10.5	50
4-Bromofluorobenzene	0.414	0.407		-1.69	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\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	94445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	171556	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153467	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76183	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65892	47.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.320%		
35) Dibromofluoromethane	5.379	113	51627	46.286	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.580%		
50) Toluene-d8	8.647	98	188654	44.728	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.460%		
62) 4-Bromofluorobenzene	11.079	95	69901	49.160	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.320%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	66679	50.338	ug/l	98
3) Chloromethane	1.307	50	79606	49.377	ug/l	100
4) Vinyl Chloride	1.374	62	74720	47.840	ug/l	98
5) Bromomethane	1.599	94	32471	69.475	ug/l	94
6) Chloroethane	1.678	64	43505m	83.535	ug/l	
7) Trichlorofluoromethane	1.880	101	104484	52.899	ug/l	97
8) Diethyl Ether	2.130	74	38138	53.242	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	58245	48.807	ug/l	98
10) Methyl Iodide	2.447	142	81938	52.978	ug/l	97
11) Tert butyl alcohol	2.959	59	81773	318.831	ug/l	98
12) 1,1-Dichloroethene	2.313	96	61347	50.395	ug/l	99
13) Acrolein	2.233	56	73377	277.291	ug/l	99
14) Allyl chloride	2.660	41	115796	52.634	ug/l	97
15) Acrylonitrile	3.056	53	198676	290.127	ug/l	98
16) Acetone	2.373	43	169746	305.420	ug/l	97
17) Carbon Disulfide	2.508	76	158094	47.360	ug/l	100
18) Methyl Acetate	2.697	43	102495	58.441	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	210056	54.234	ug/l	99
20) Methylene Chloride	2.782	84	70630	51.883	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	61493	51.325	ug/l	90
22) Diisopropyl ether	3.757	45	229760	55.202	ug/l	96
23) Vinyl Acetate	3.715	43	961165	283.261	ug/l	99
24) 1,1-Dichloroethane	3.605	63	124800	53.588	ug/l	97
25) 2-Butanone	4.550	43	272772	302.246	ug/l	97
26) 2,2-Dichloropropane	4.471	77	85229	46.148	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	75807	52.676	ug/l	99
28) Bromochloromethane	4.897	49	52159	46.604	ug/l	97
29) Tetrahydrofuran	4.995	42	178501	297.864	ug/l	97
30) Chloroform	5.086	83	122388	54.189	ug/l	99
31) Cyclohexane	5.464	56	104172	48.520	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	101932	53.209	ug/l	99
36) 1,1-Dichloropropene	5.690	75	82797	51.452	ug/l	100
37) Ethyl Acetate	4.708	43	101851	56.903	ug/l	100
38) Carbon Tetrachloride	5.672	117	83568	52.993	ug/l	97
39) Methylcyclohexane	7.379	83	102598	49.315	ug/l	99
40) Benzene	6.031	78	264712	52.680	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	59791	62.407	ug/l		97
42) 1,2-Dichloroethane	6.080	62	91650	57.228	ug/l		98
43) Isopropyl Acetate	6.336	43	166844	57.723	ug/l		98
44) Trichloroethene	7.123	130	61670	53.693	ug/l		98
45) 1,2-Dichloropropane	7.427	63	68342	54.668	ug/l		98
46) Dibromomethane	7.580	93	48498	55.940	ug/l		100
47) Bromodichloromethane	7.818	83	96049	57.216	ug/l		98
48) Methyl methacrylate	7.690	41	82197	60.311	ug/l		97
49) 1,4-Dioxane	7.653	88	37326	1276.524	ug/l		98
51) 4-Methyl-2-Pentanone	8.567	43	543106	309.071	ug/l		100
52) Toluene	8.714	92	159226	53.206	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	94505	55.632	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	103618	54.707	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	64087	55.708	ug/l		98
56) Ethyl methacrylate	9.116	69	106133	57.122	ug/l		96
57) 1,3-Dichloropropane	9.305	76	110929	55.110	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	246733	270.450	ug/l		100
59) 2-Hexanone	9.427	43	410543	324.260	ug/l		97
60) Dibromochloromethane	9.519	129	70306	57.145	ug/l		99
61) 1,2-Dibromoethane	9.604	107	65513	56.187	ug/l		100
64) Tetrachloroethene	9.269	164	49133	50.766	ug/l		98
65) Chlorobenzene	10.073	112	175110	53.124	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	57633	54.322	ug/l		100
67) Ethyl Benzene	10.189	91	308662	53.064	ug/l		99
68) m/p-Xylenes	10.299	106	227422	105.988	ug/l		98
69) o-Xylene	10.640	106	112850	52.414	ug/l		98
70) Styrene	10.652	104	191380	55.172	ug/l		98
71) Bromoform	10.799	173	46331	58.514	ug/l	#	98
73) Isopropylbenzene	10.957	105	289482	47.192	ug/l		100
74) N-amyl acetate	10.841	43	147969	53.307	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	103911	49.296	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	87524m	51.817	ug/l		
77) Bromobenzene	11.195	156	69109	49.693	ug/l		97
78) n-propylbenzene	11.299	91	347506	49.081	ug/l		100
79) 2-Chlorotoluene	11.360	91	207868	47.769	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	241259	48.466	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	29650	45.155	ug/l		90
82) 4-Chlorotoluene	11.451	91	236705	49.168	ug/l		100
83) tert-Butylbenzene	11.713	119	245140	48.679	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	245839	50.037	ug/l		99
85) sec-Butylbenzene	11.890	105	308918	49.539	ug/l		99
86) p-Isopropyltoluene	12.006	119	254468	50.744	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	128049	50.069	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	128451	49.676	ug/l		99
89) n-Butylbenzene	12.329	91	245173	55.263	ug/l		99
90) Hexachloroethane	12.536	117	44714	47.620	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	127878	50.877	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21727	56.476	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	81980	53.901	ug/l		100
94) Hexachlorobutadiene	13.719	225	31681	52.471	ug/l		98
95) Naphthalene	13.774	128	293624	53.406	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	80402	52.463	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

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

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

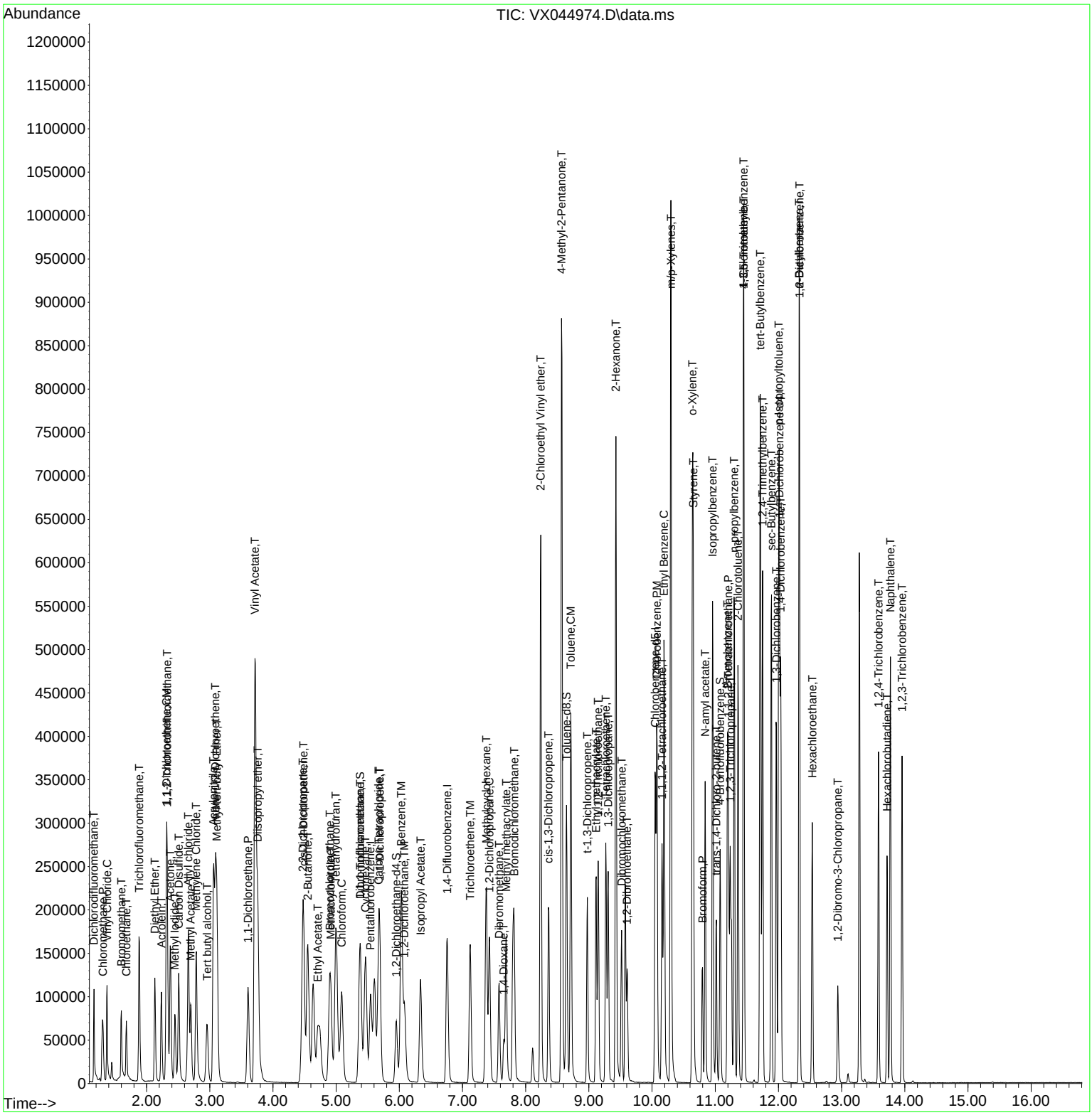
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

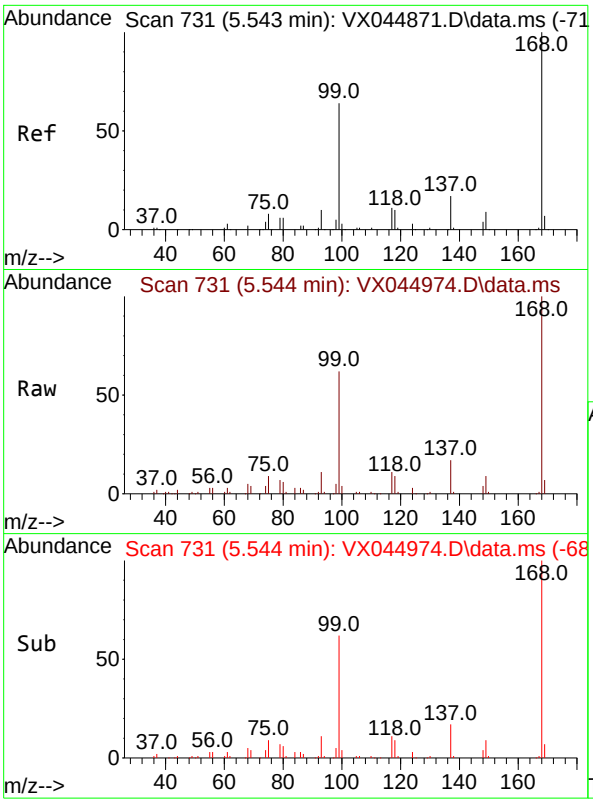
Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

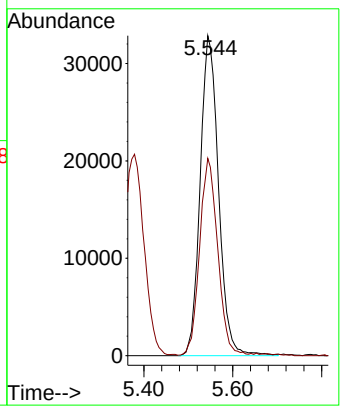




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:168 Resp: 9444

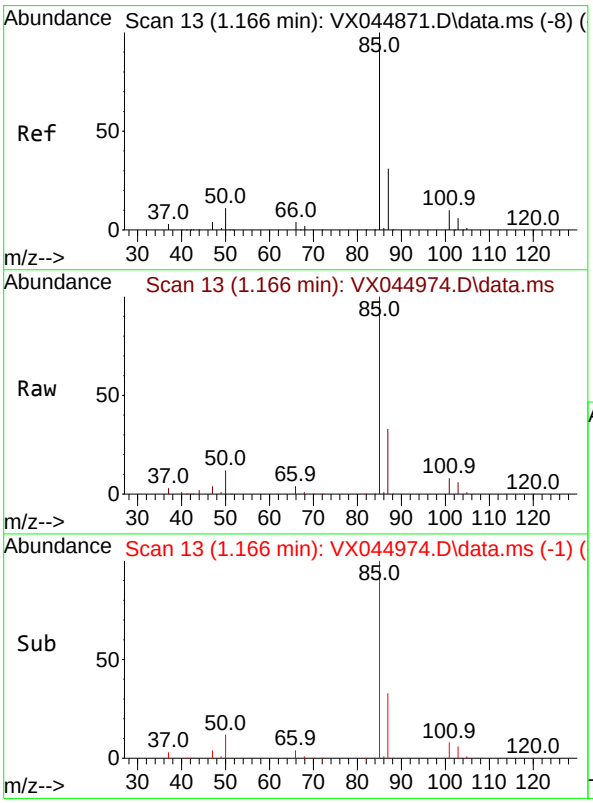
Ion	Ratio	Lower	Upper
168	100		
99	61.5	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

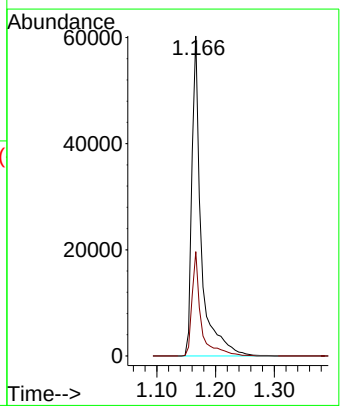
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

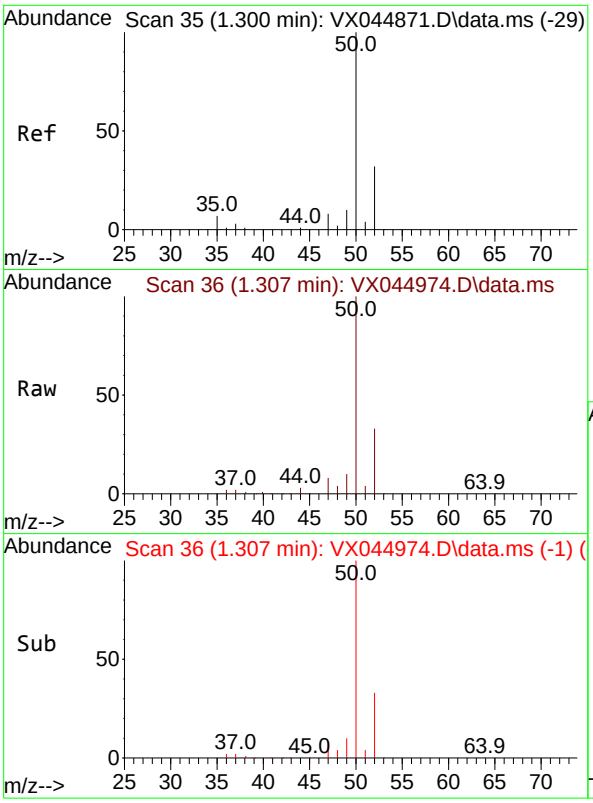


#2
Dichlorodifluoromethane
Concen: 50.338 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 85 Resp: 66679

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.8	47.3

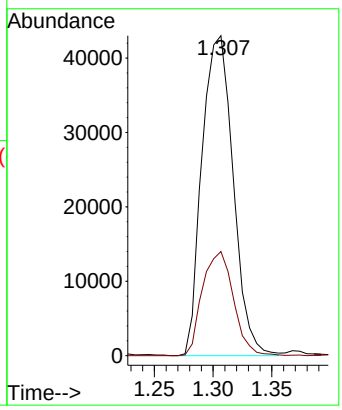




#3
Chloromethane
Concen: 49.377 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 50 Resp: 7960

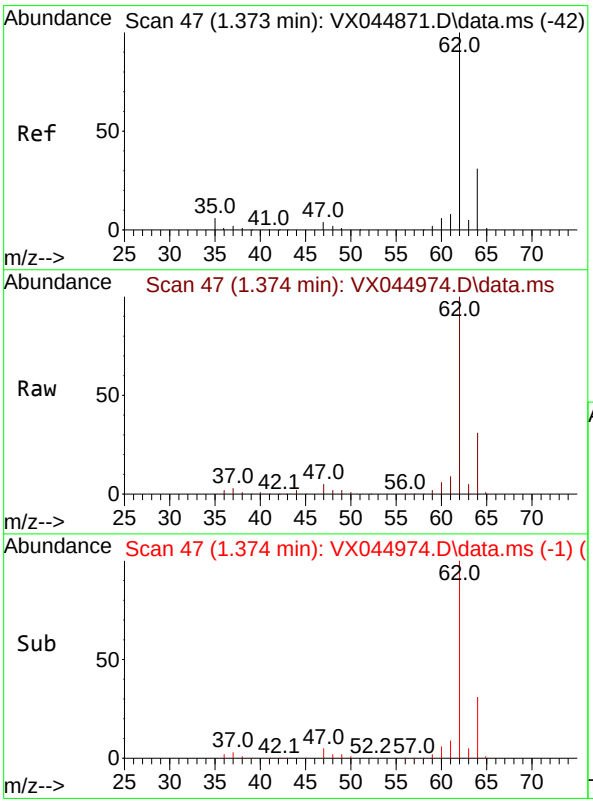
Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

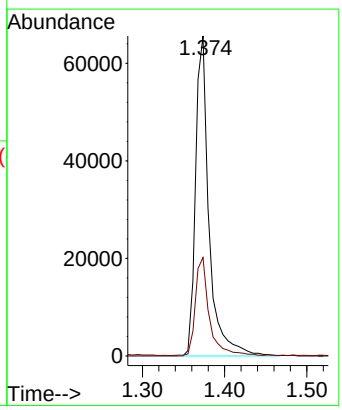
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

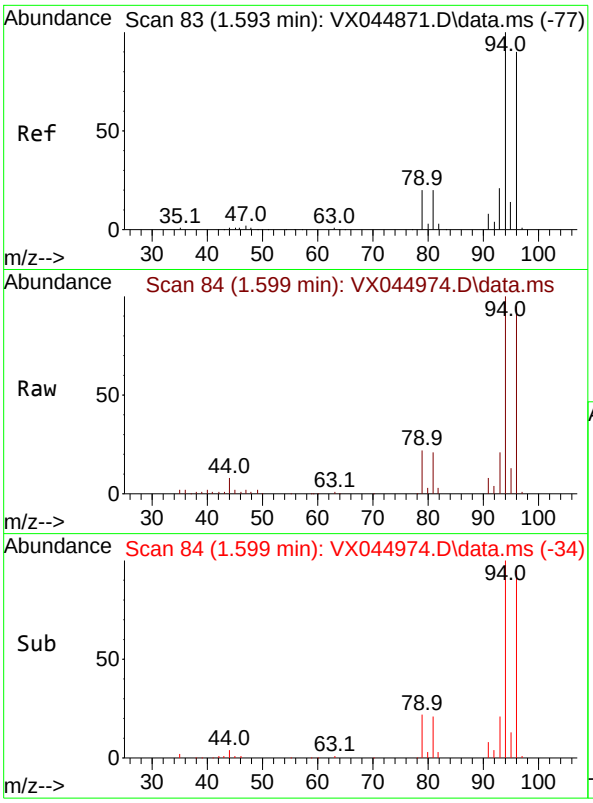


#4
Vinyl Chloride
Concen: 47.840 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 62 Resp: 74720

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.4	38.0

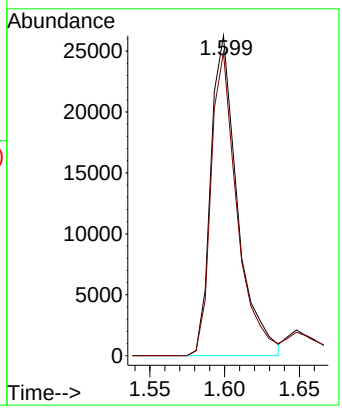




#5
Bromomethane
Concen: 69.475 ug/l
RT: 1.599 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 94 Resp: 3247

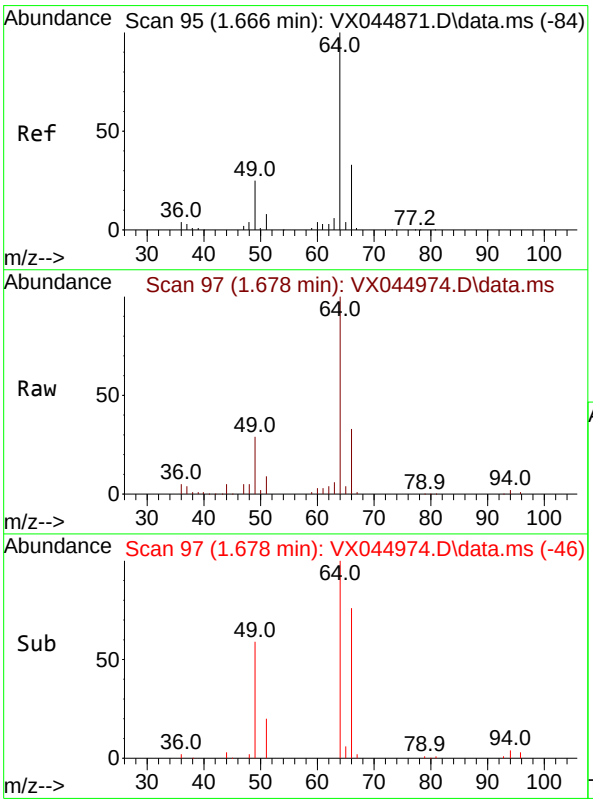
Ion	Ratio	Lower	Upper
94	100		
96	94.8	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

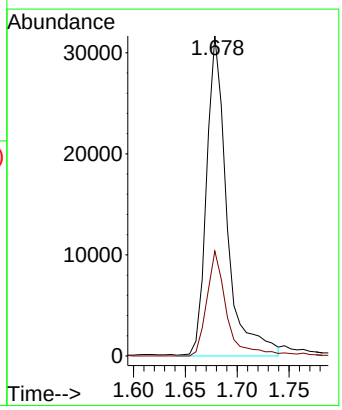
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

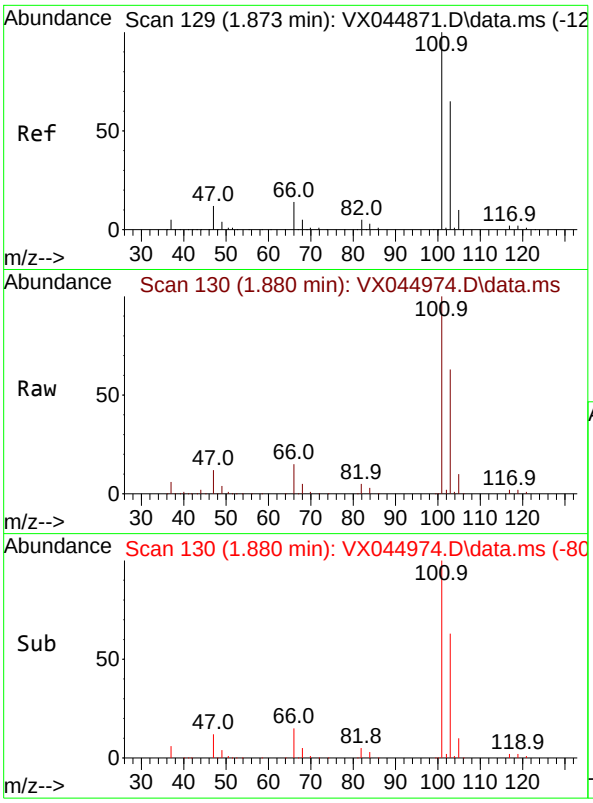


#6
Chloroethane
Concen: 83.535 ug/l m
RT: 1.678 min Scan# 97
Delta R.T. 0.012 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 64 Resp: 43505

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.9	38.9

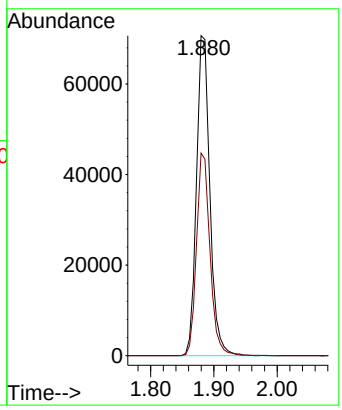




#7
Trichlorofluoromethane
Concen: 52.899 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:101 Resp: 10448

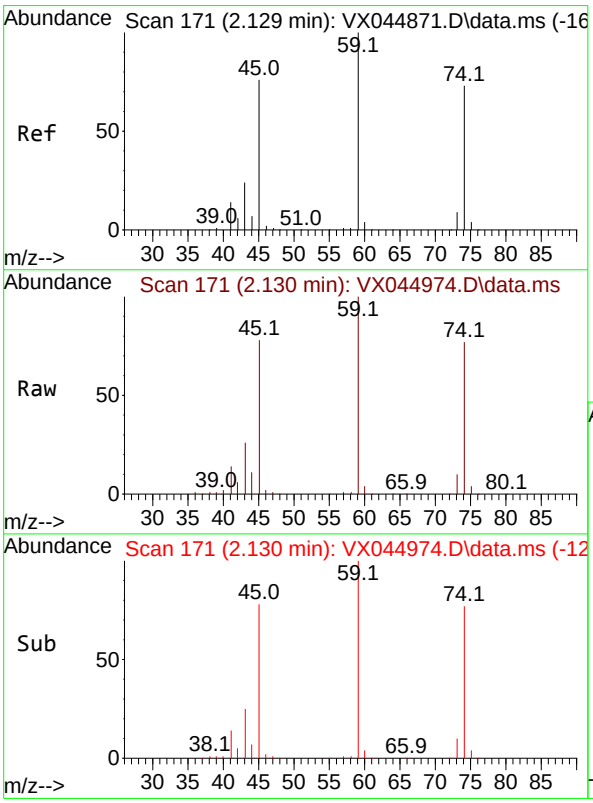
Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

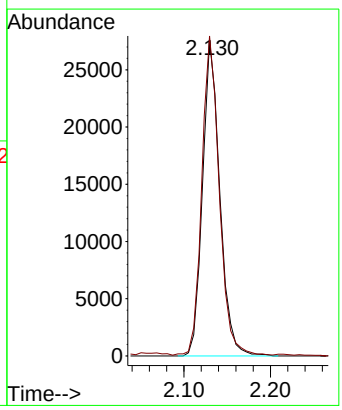
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

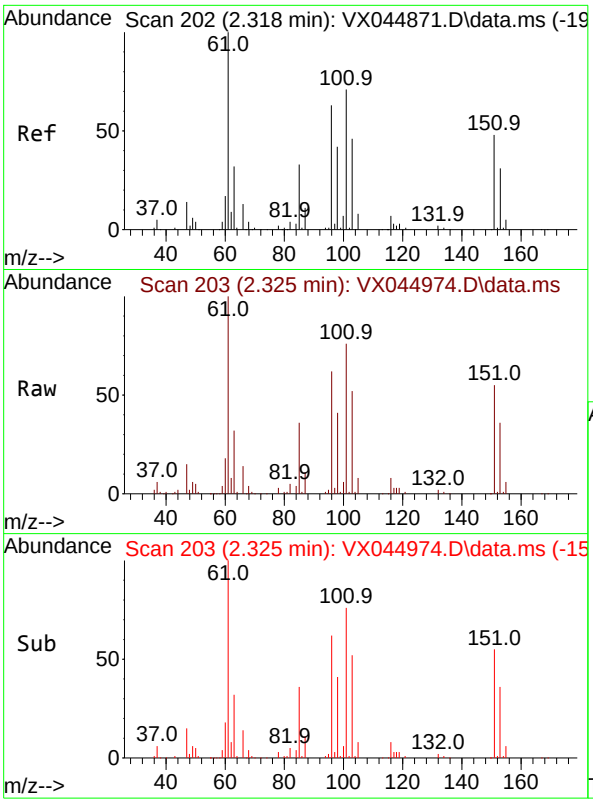


#8
Diethyl Ether
Concen: 53.242 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 74 Resp: 38138

Ion	Ratio	Lower	Upper
74	100		
45	102.0	51.1	153.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.807 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

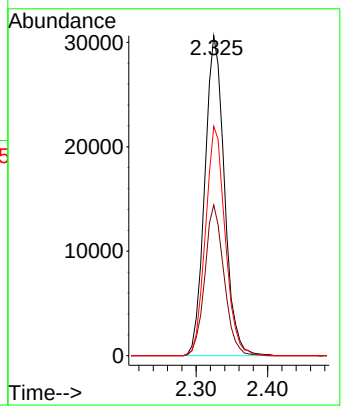
Tgt Ion:101 Resp: 5824

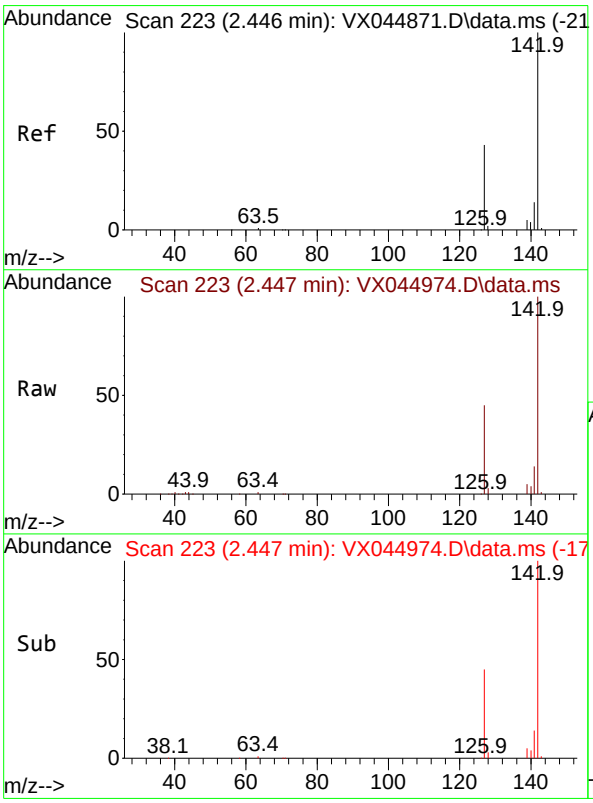
Ion	Ratio	Lower	Upper
101	100		
85	46.3	35.7	53.5
151	71.9	56.0	84.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

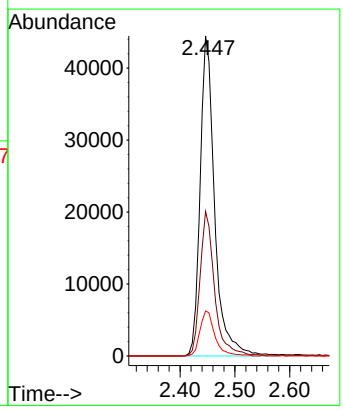


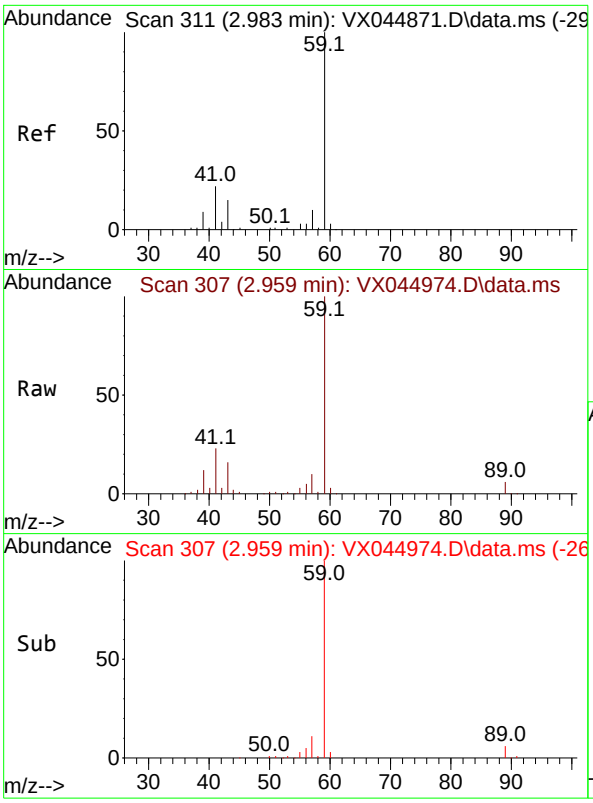


#10
Methyl Iodide
Concen: 52.978 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:142 Resp: 81938

Ion	Ratio	Lower	Upper
142	100		
127	45.0	34.3	51.5
141	14.5	11.4	17.2

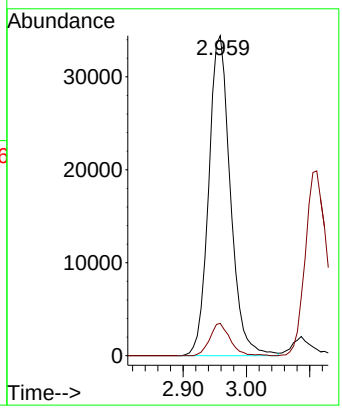




#11
Tert butyl alcohol
Concen: 318.831 ug/l
RT: 2.959 min Scan# 3
Delta R.T. -0.024 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 59 Resp: 8177

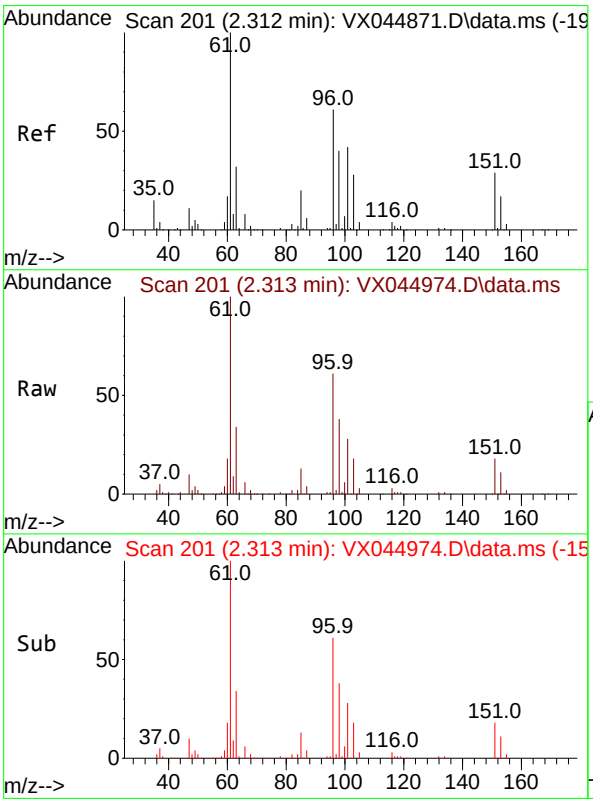
Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

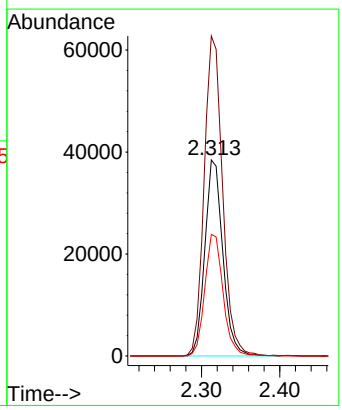
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

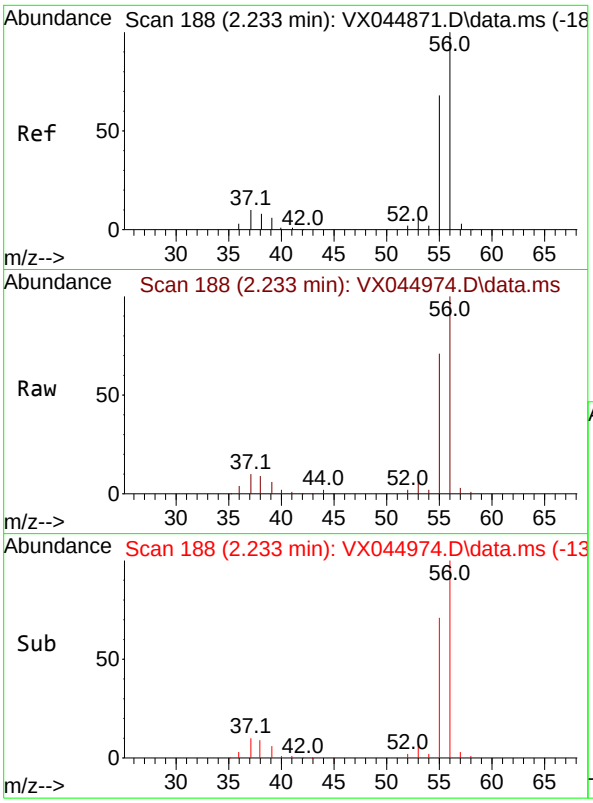


#12
1,1-Dichloroethene
Concen: 50.395 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 96 Resp: 61347

Ion	Ratio	Lower	Upper
96	100		
61	163.3	130.2	195.4
98	62.1	52.2	78.4

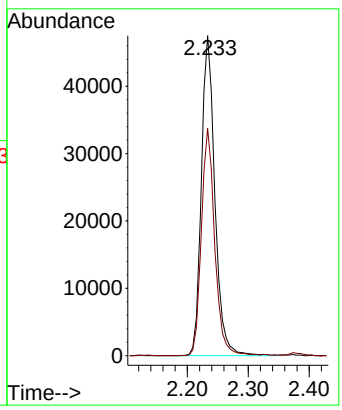




#13
Acrolein
Concen: 277.291 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 56 Resp: 7337

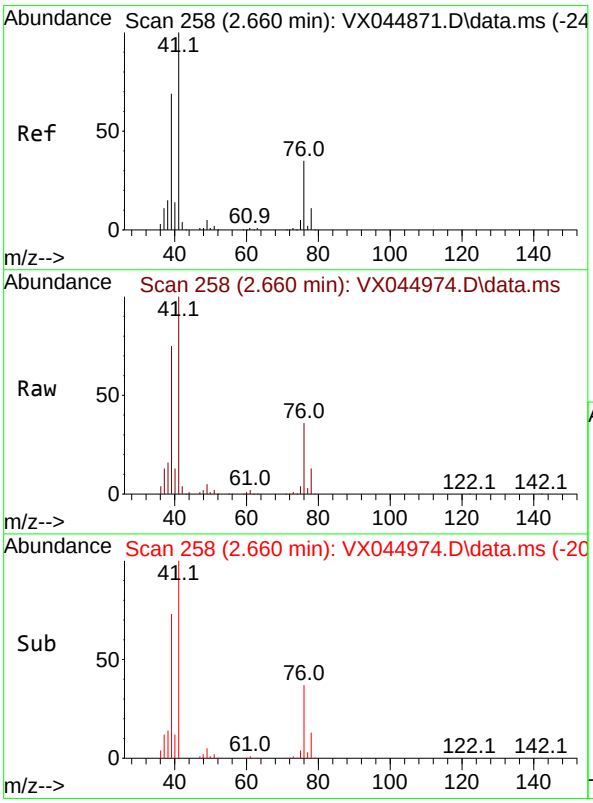
Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

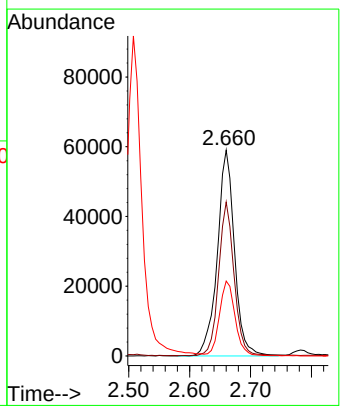
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

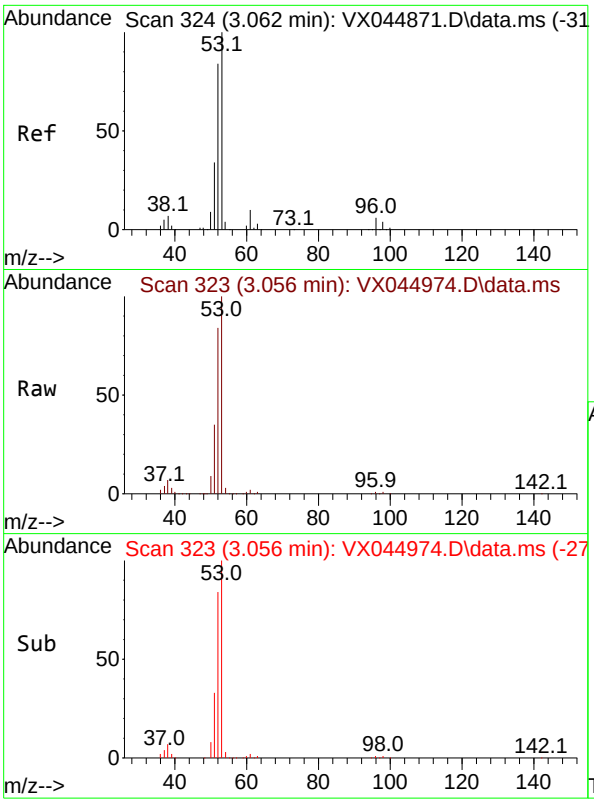


#14
Allyl chloride
Concen: 52.634 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 41 Resp: 115796

Ion	Ratio	Lower	Upper
41	100		
39	66.7	51.4	77.2
76	32.8	27.0	40.4

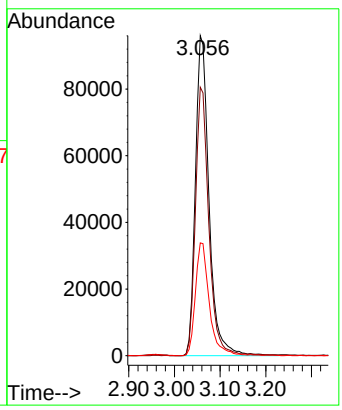




#15
Acrylonitrile
Concen: 290.127 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 53 Resp: 19867

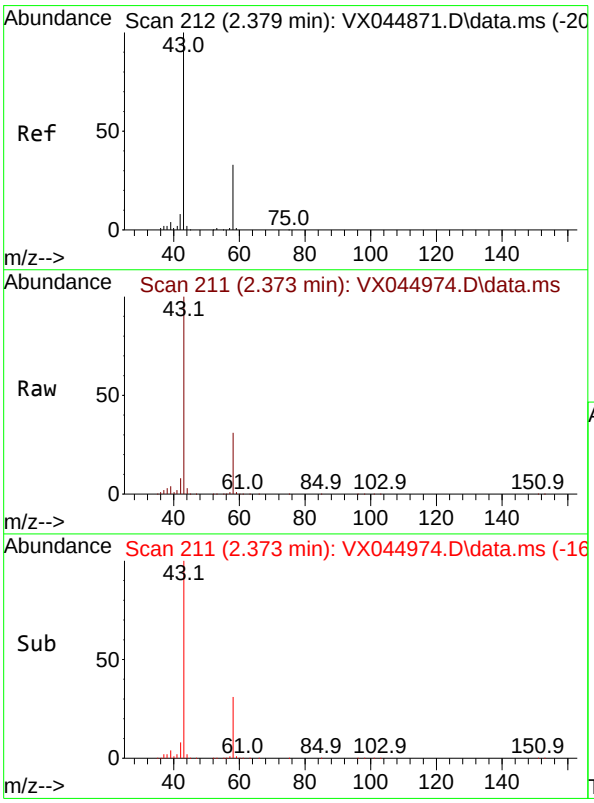
Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.0	97.6
51	36.2	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

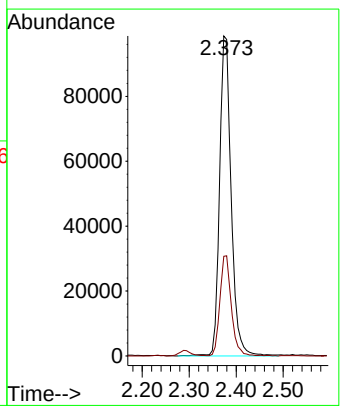
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

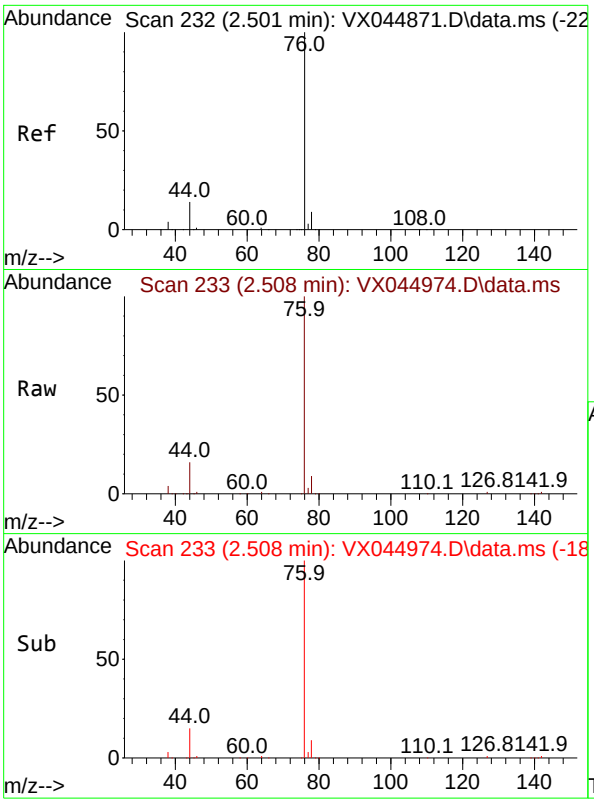


#16
Acetone
Concen: 305.420 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 169746

Ion	Ratio	Lower	Upper
43	100		
58	31.2	26.5	39.7





#17
Carbon Disulfide
Concen: 47.360 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

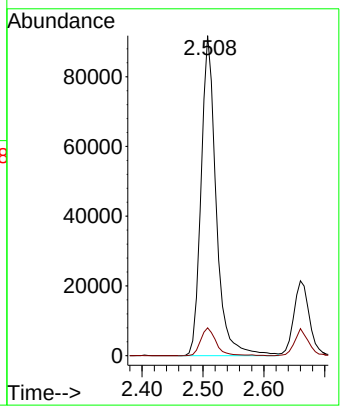
Tgt Ion: 76 Resp: 15809

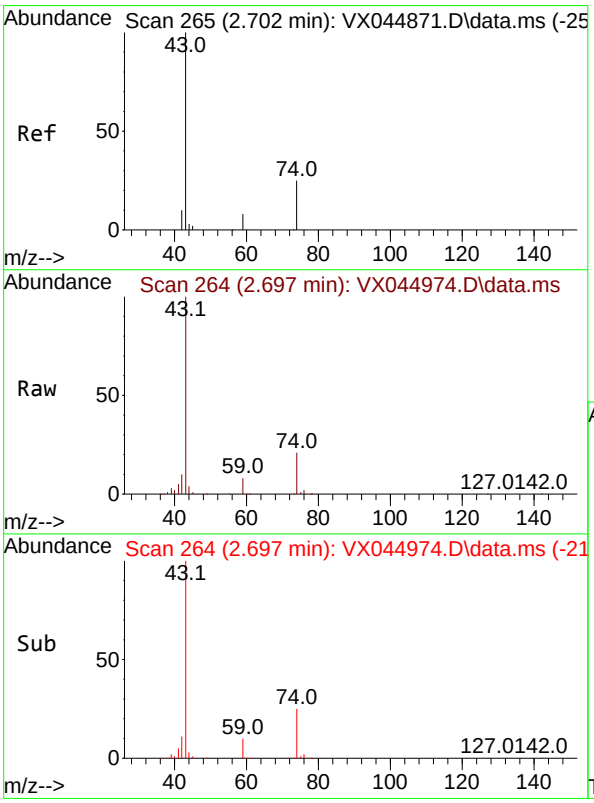
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

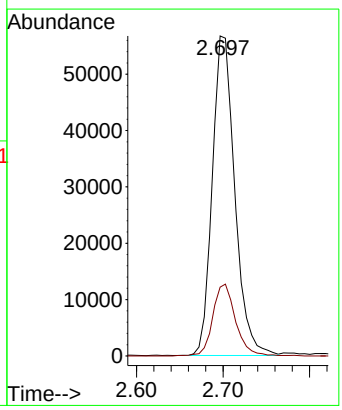


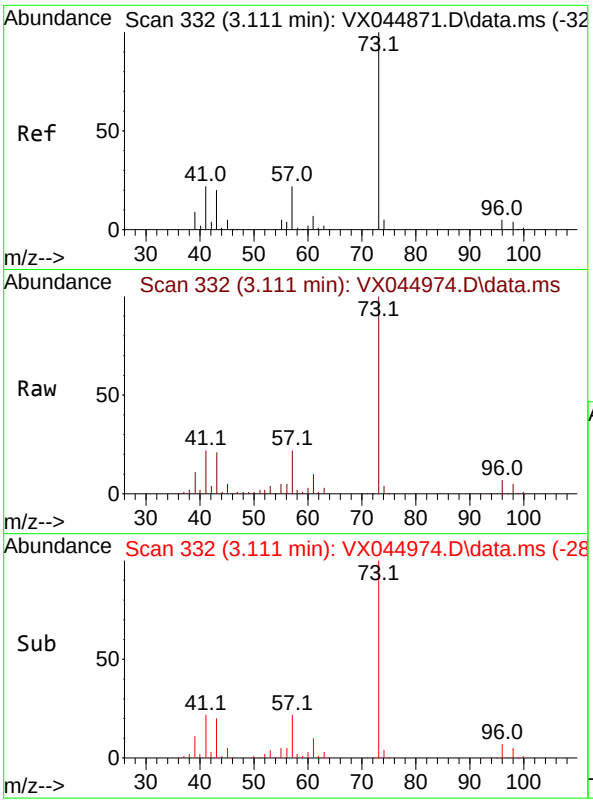


#18
Methyl Acetate
Concen: 58.441 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 102495

Ion	Ratio	Lower	Upper
43	100		
74	22.7	18.9	28.3

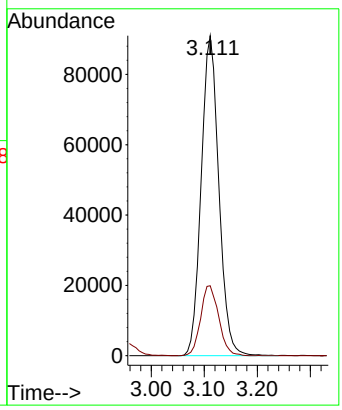




#19
Methyl tert-butyl Ether
Concen: 54.234 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 73 Resp: 21005

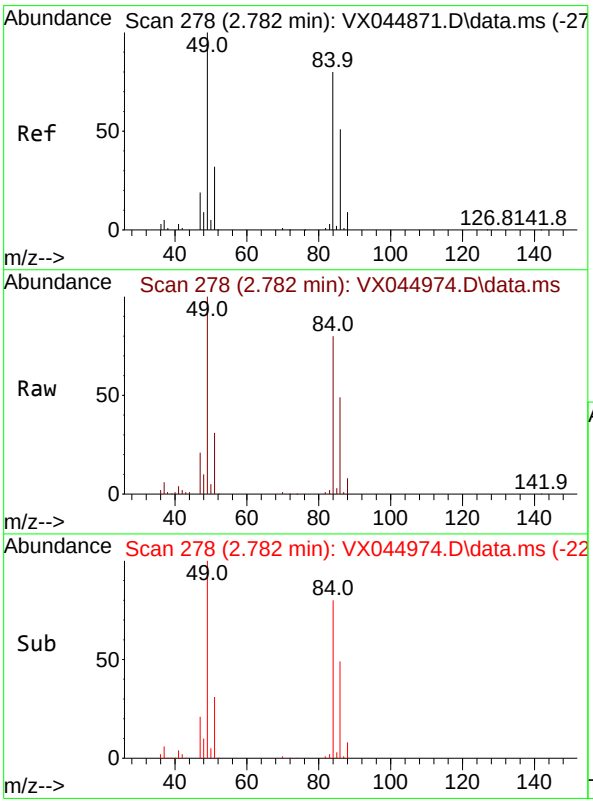
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

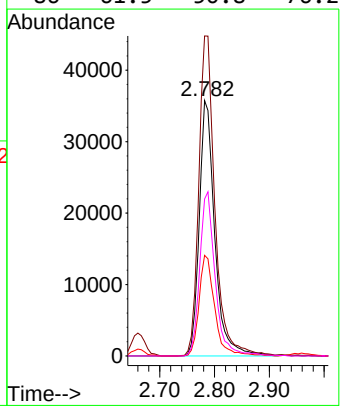
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

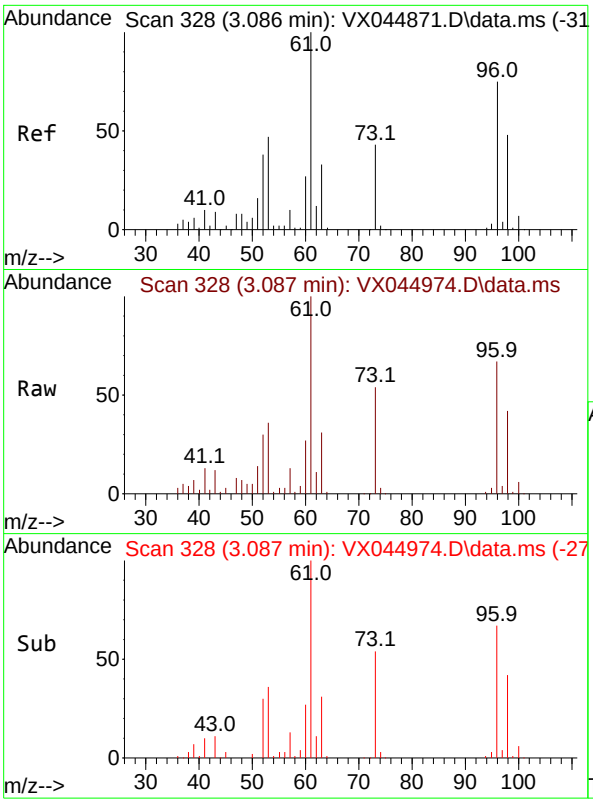


#20
Methylene Chloride
Concen: 51.883 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 84 Resp: 70630

Ion	Ratio	Lower	Upper
84	100		
49	125.3	100.1	150.1
51	39.4	31.7	47.5
86	61.5	50.8	76.2

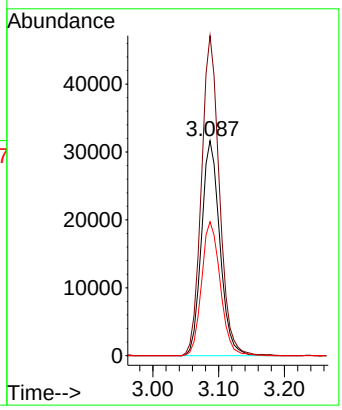




#21
trans-1,2-Dichloroethene
Concen: 51.325 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 96 Resp: 6149

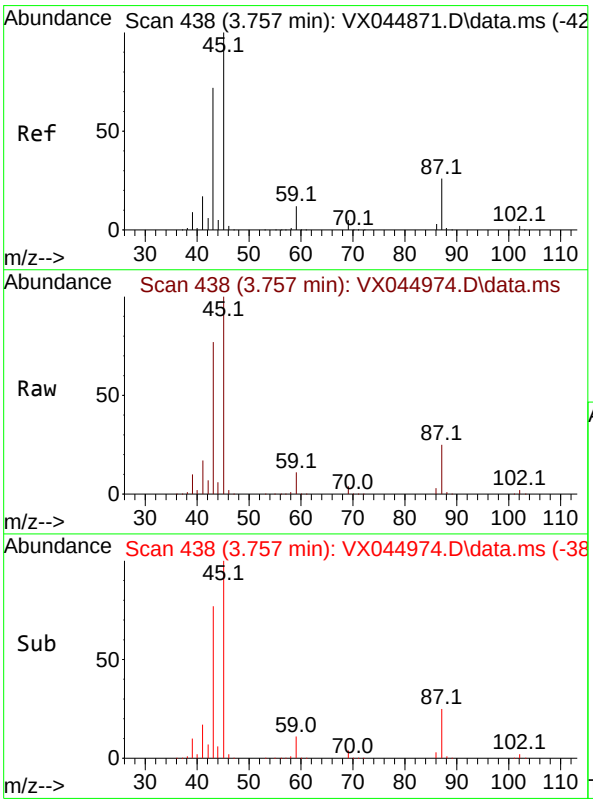
Ion	Ratio	Lower	Upper
96	100		
61	149.0	106.0	159.0
98	62.3	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

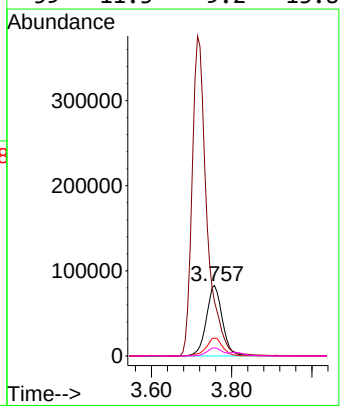
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

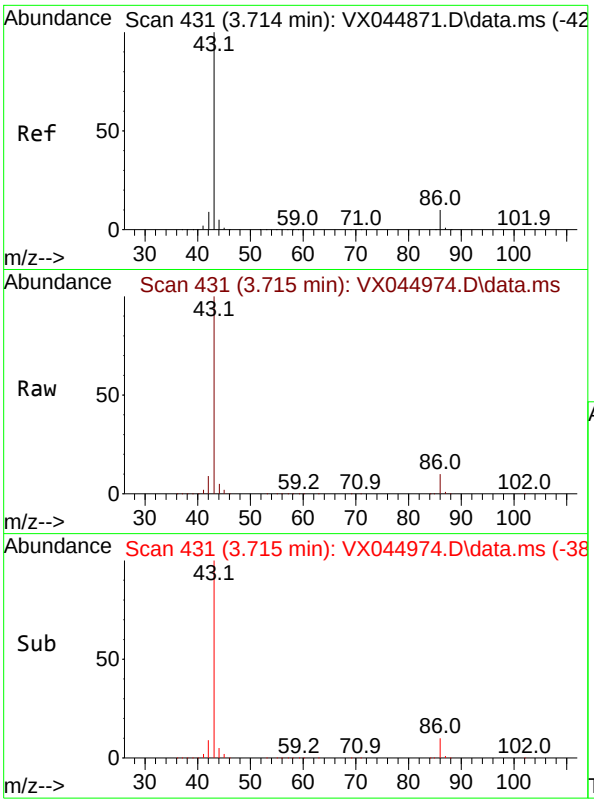


#22
Diisopropyl ether
Concen: 55.202 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 45 Resp: 229760

Ion	Ratio	Lower	Upper
45	100		
43	76.6	58.0	87.0
87	25.1	20.7	31.1
59	11.3	9.2	13.8





#23
Vinyl Acetate
Concen: 283.261 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

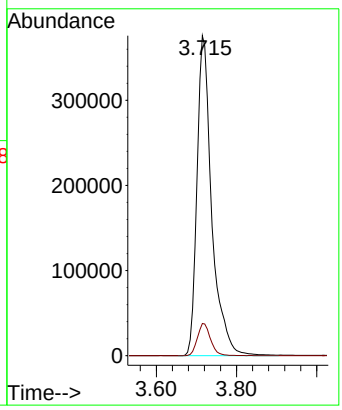
Tgt Ion: 43 Resp: 96116

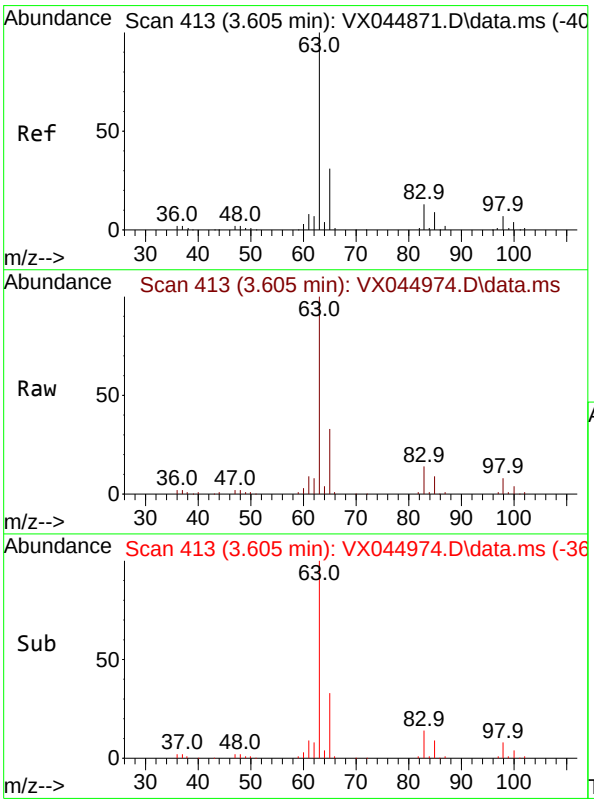
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

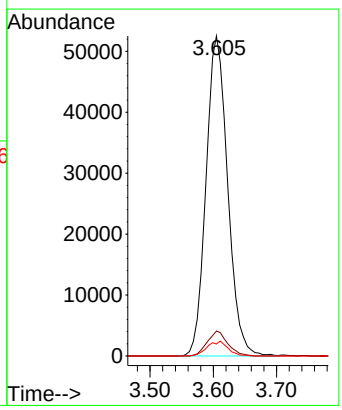


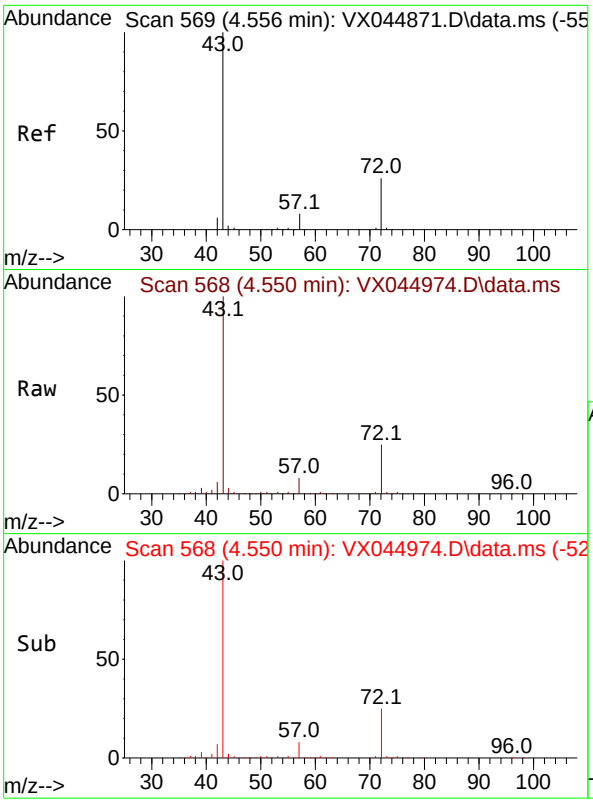


#24
1,1-Dichloroethane
Concen: 53.588 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 63 Resp: 124800

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.3	9.9
100	3.7	2.1	6.5

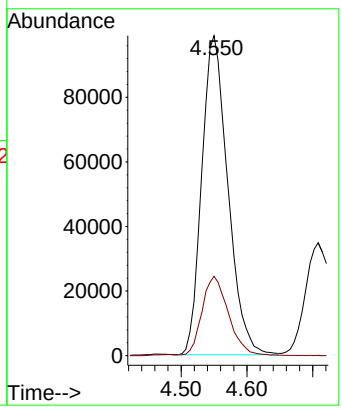




#25
2-Butanone
Concen: 302.246 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 27277

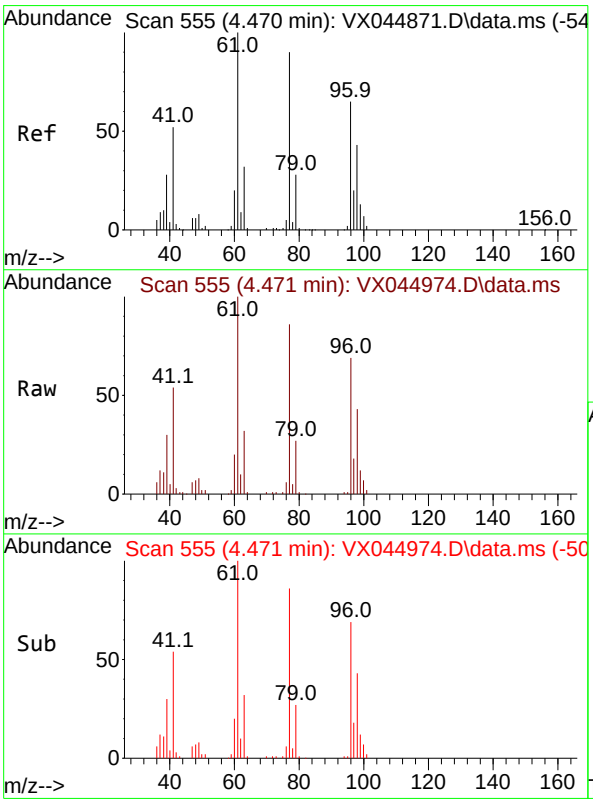
Ion	Ratio	Lower	Upper
43	100		
72	24.7	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

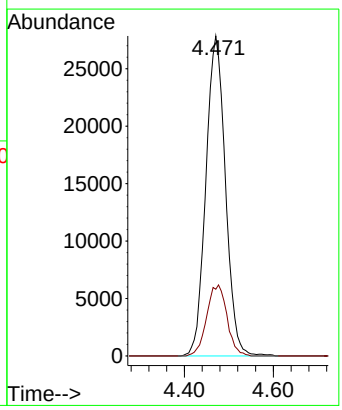
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

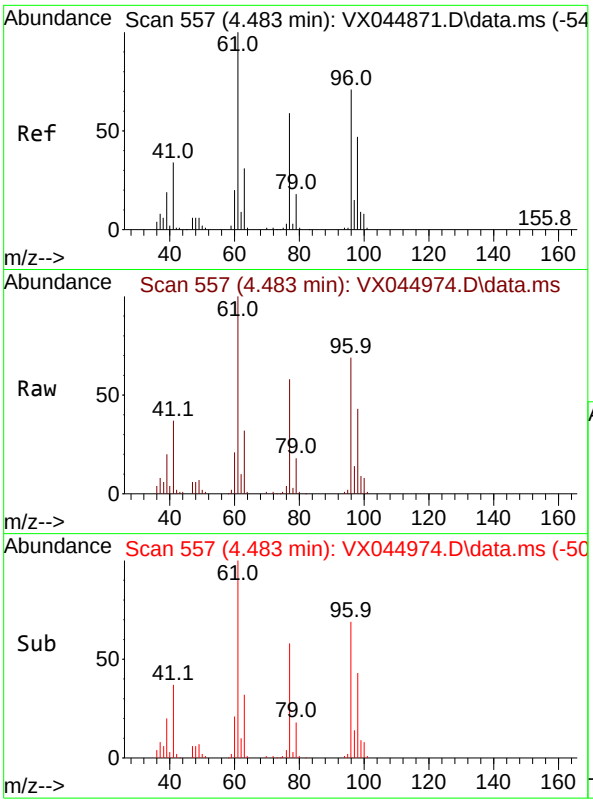


#26
2,2-Dichloropropane
Concen: 46.148 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 77 Resp: 85229

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.8	35.3





#27
cis-1,2-Dichloroethene
Concen: 52.676 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

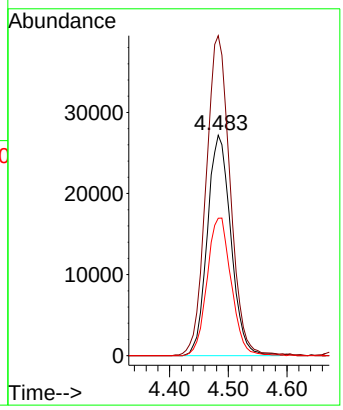
Tgt Ion: 96 Resp: 7580

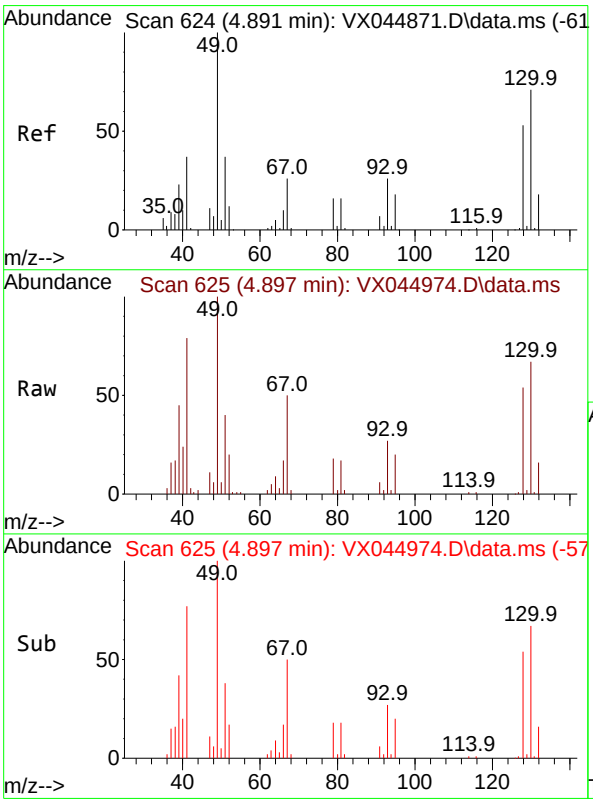
Ion	Ratio	Lower	Upper
96	100		
61	148.6	0.0	294.0
98	64.0	0.0	131.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

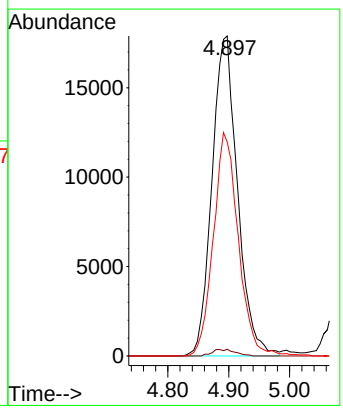


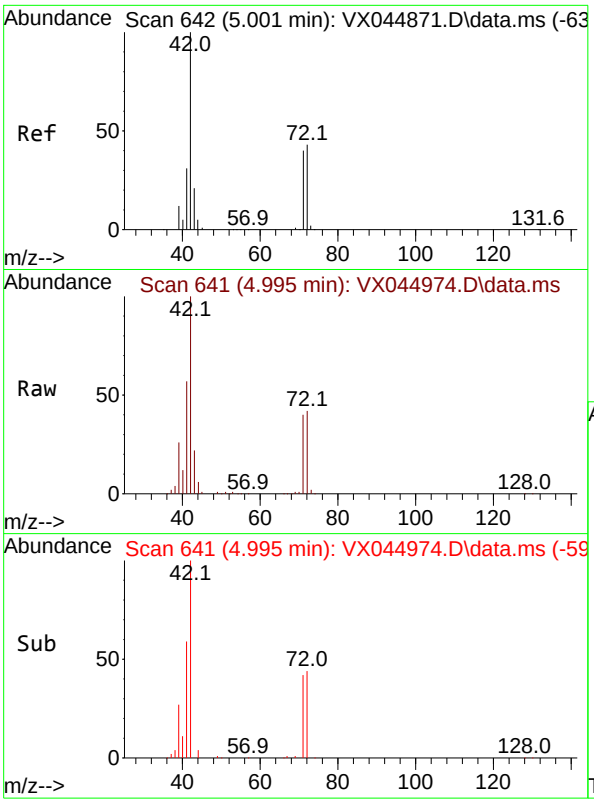


#28
Bromochloromethane
Concen: 46.604 ug/l
RT: 4.897 min Scan# 625
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 49 Resp: 52159

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	68.4	56.7	85.1

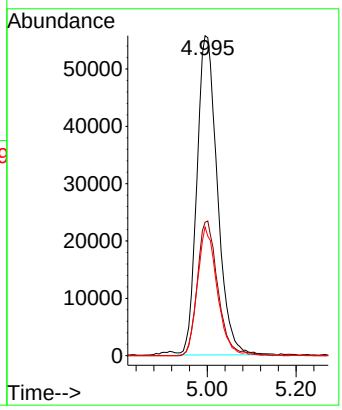




#29
Tetrahydrofuran
Concen: 297.864 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 42 Resp: 17850

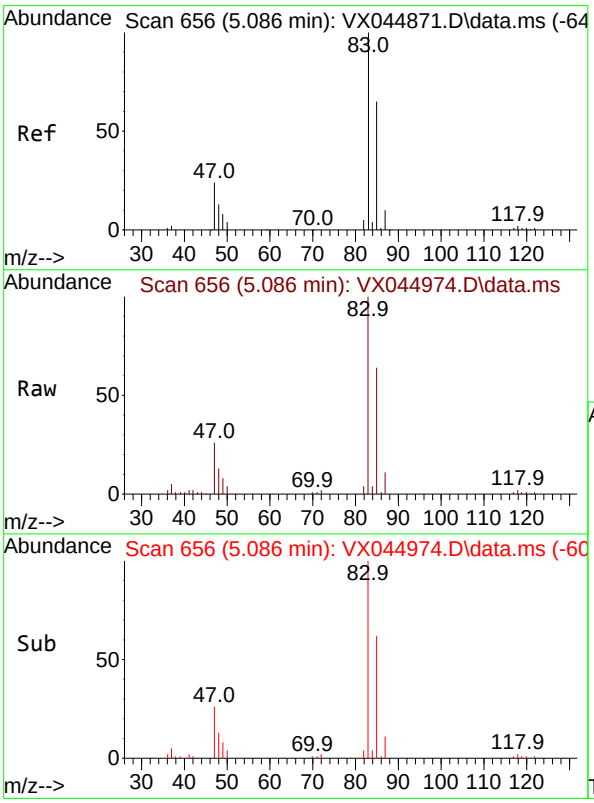
Ion	Ratio	Lower	Upper
42	100		
72	42.4	35.0	52.4
71	38.8	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

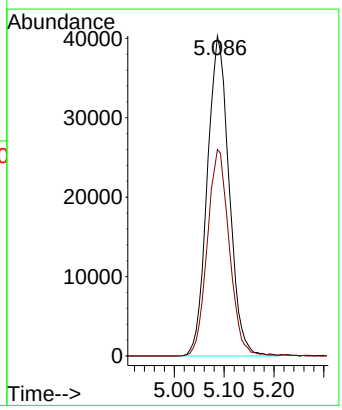
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

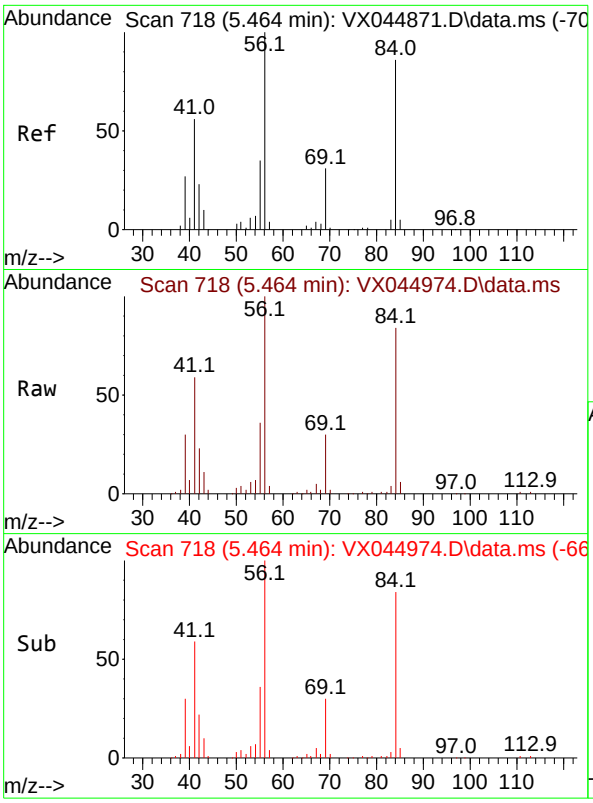


#30
Chloroform
Concen: 54.189 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 83 Resp: 122388

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.1	78.1

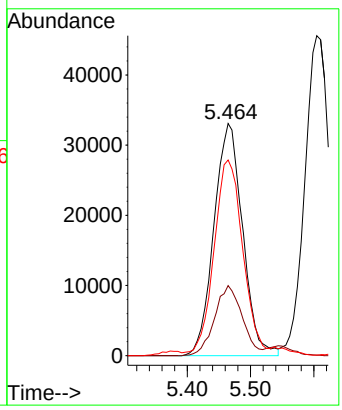




#31
Cyclohexane
Concen: 48.520 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 56 Resp: 10417

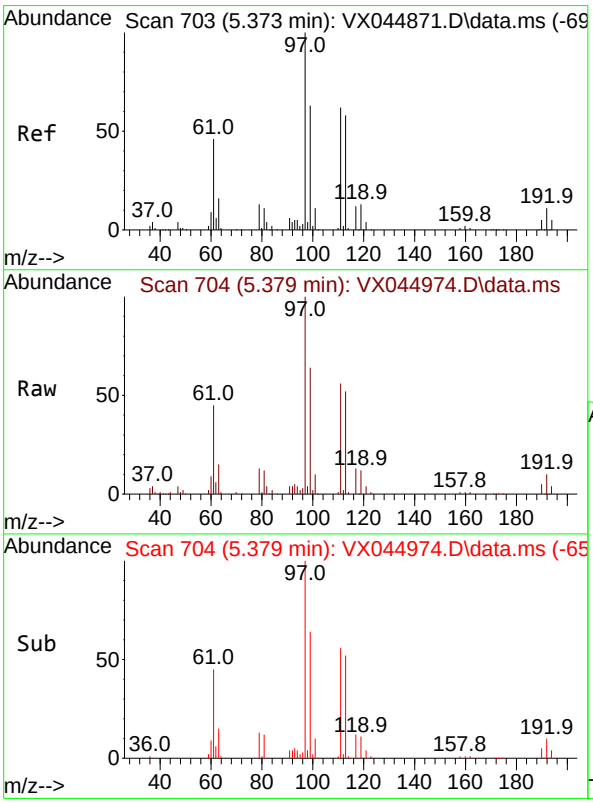
Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.4	36.6
84	82.5	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

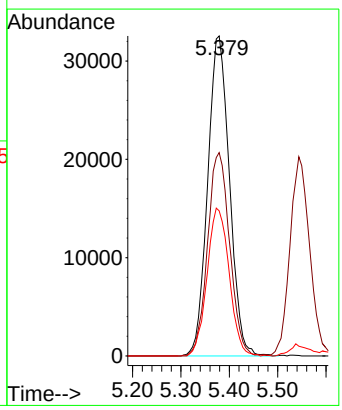
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

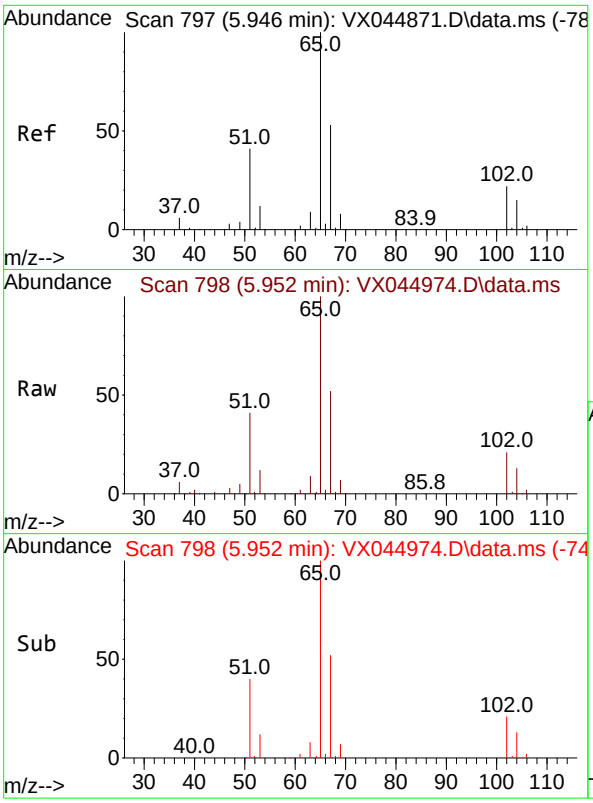


#32
1,1,1-Trichloroethane
Concen: 53.209 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 97 Resp: 101932

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.6
61	46.9	36.6	55.0





#33
1,2-Dichloroethane-d4
Concen: 47.661 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

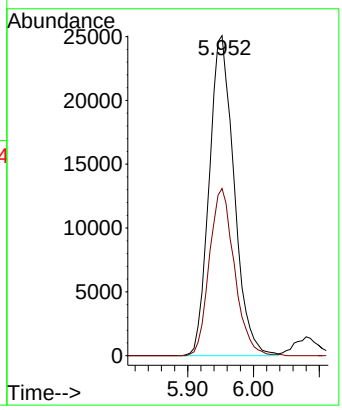
Tgt Ion: 65 Resp: 6589

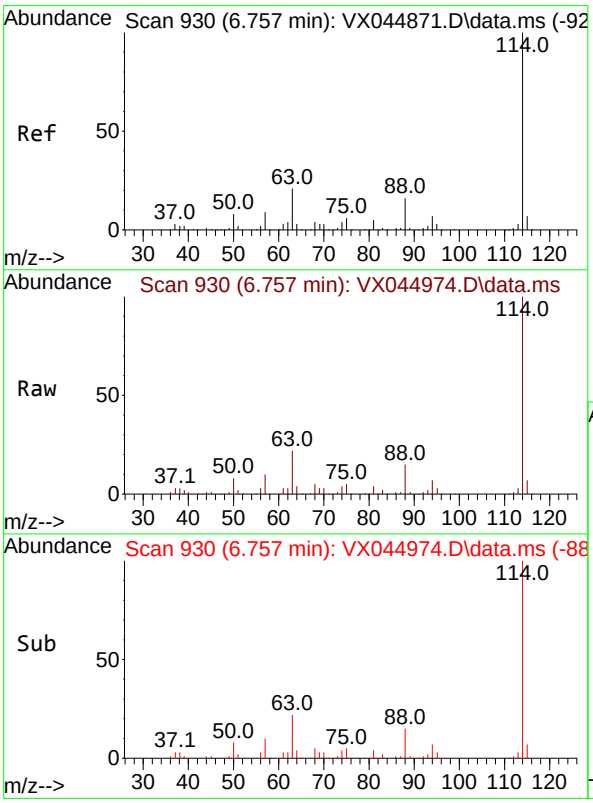
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	108.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

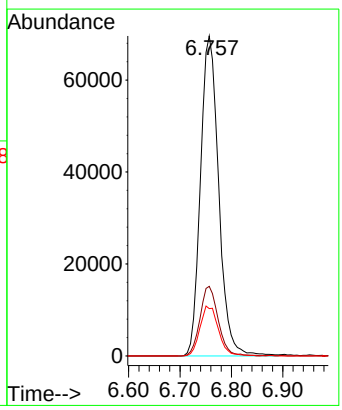


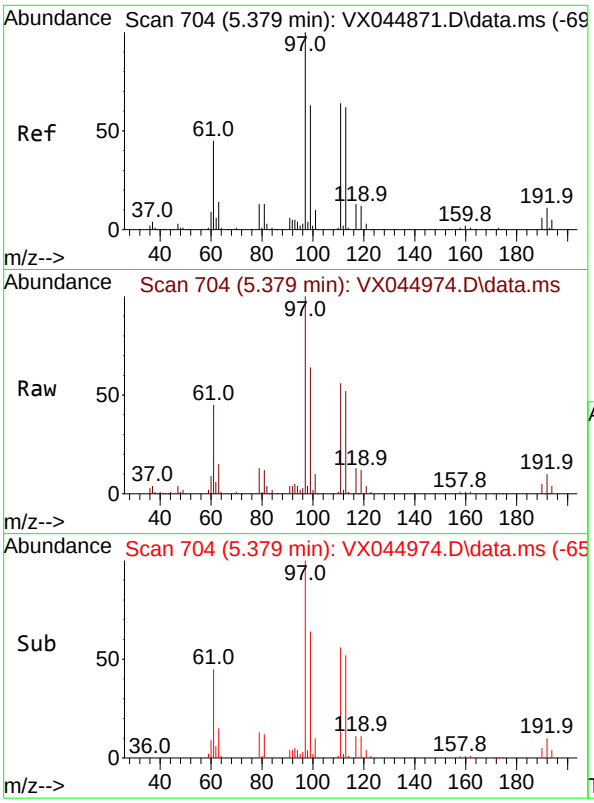


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:114 Resp: 171556

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	42.4
88	14.8	0.0	31.4

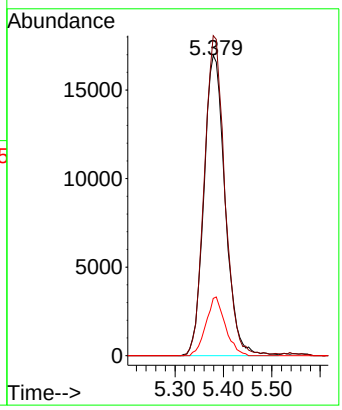




#35
Dibromofluoromethane
Concen: 46.286 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:113 Resp: 5162

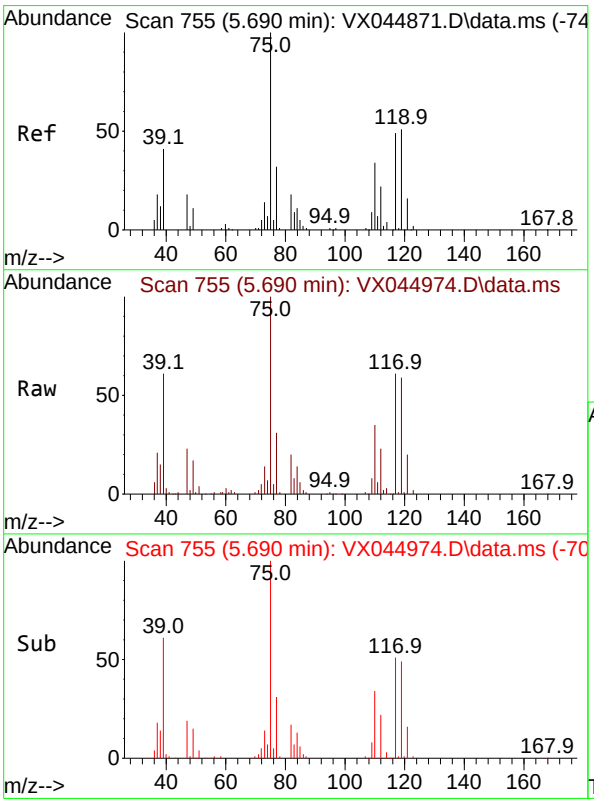
Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.5	125.3
192	17.8	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

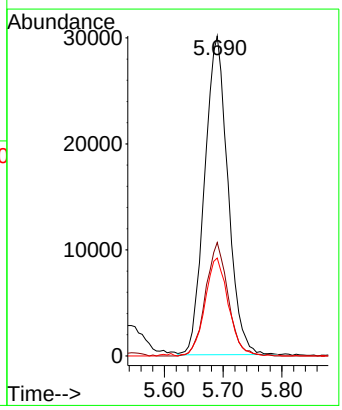
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

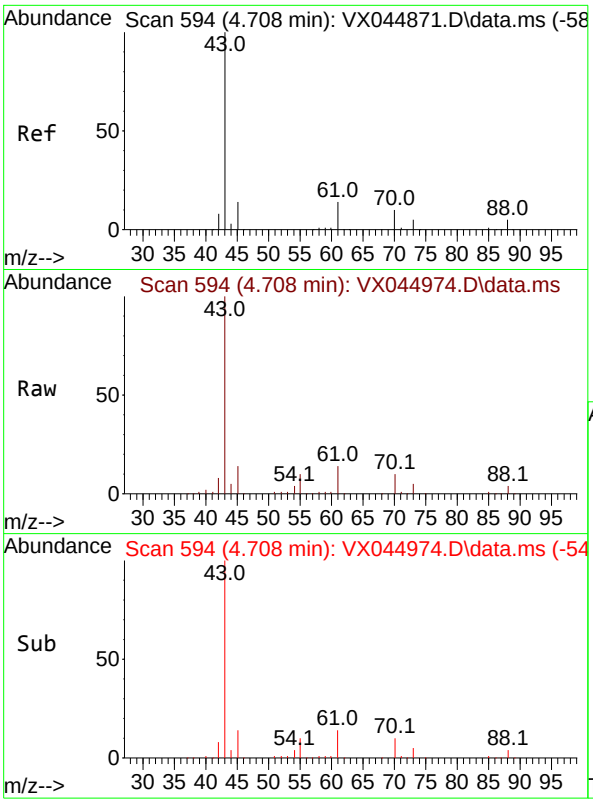


#36
1,1-Dichloropropene
Concen: 51.452 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 82797

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	31.0	24.6	37.0





#37
Ethyl Acetate
Concen: 56.903 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

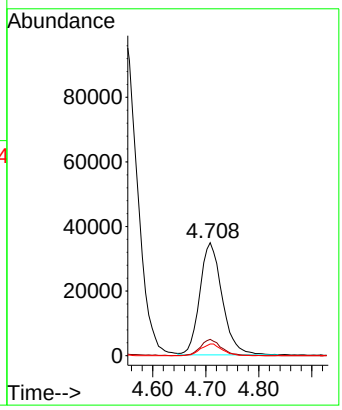
Tgt Ion: 43 Resp: 10185

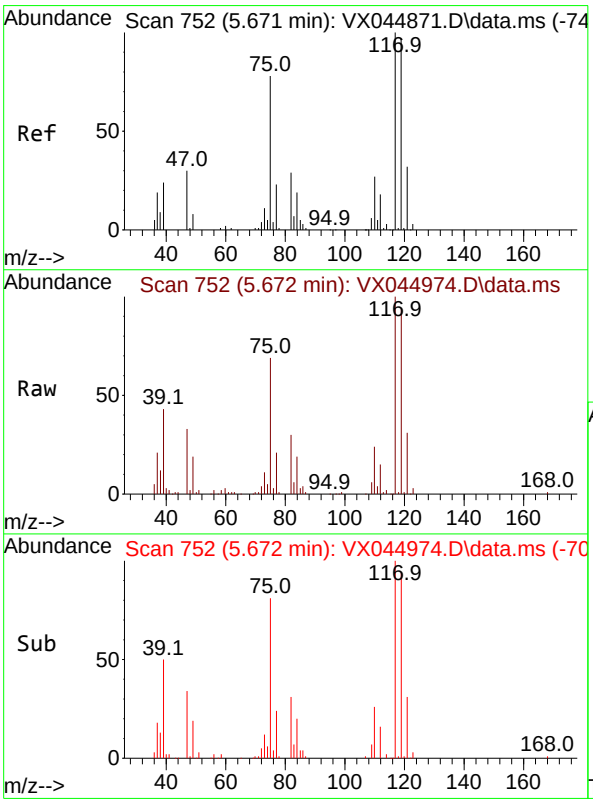
Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.4
70	10.0	8.2	12.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

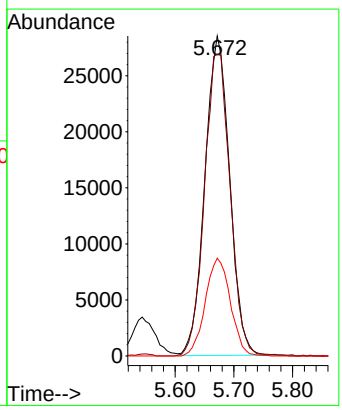


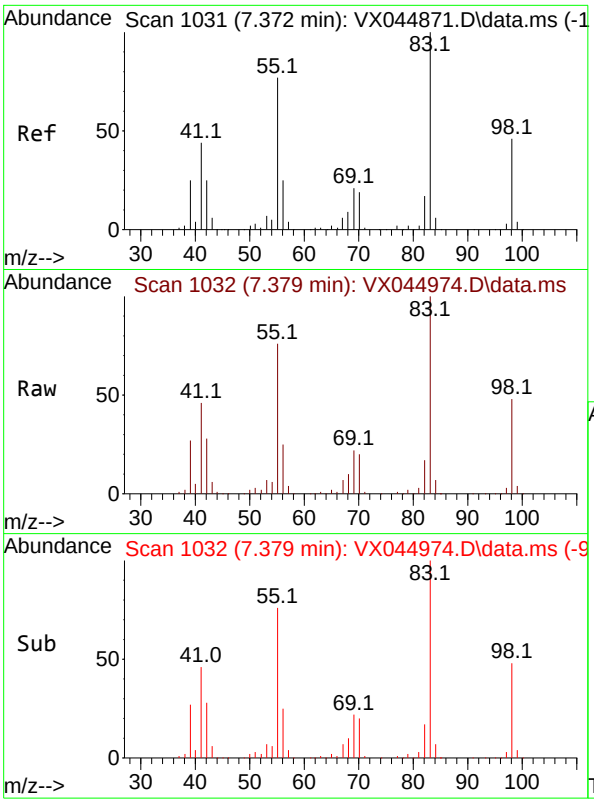


#38
Carbon Tetrachloride
Concen: 52.993 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:117 Resp: 83568

Ion	Ratio	Lower	Upper
117	100		
119	94.3	77.5	116.3
121	30.6	25.6	38.4

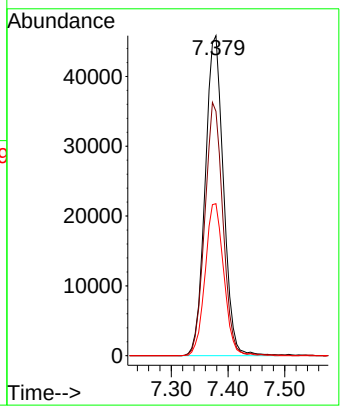




#39
Methylcyclohexane
Concen: 49.315 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 83 Resp: 10259

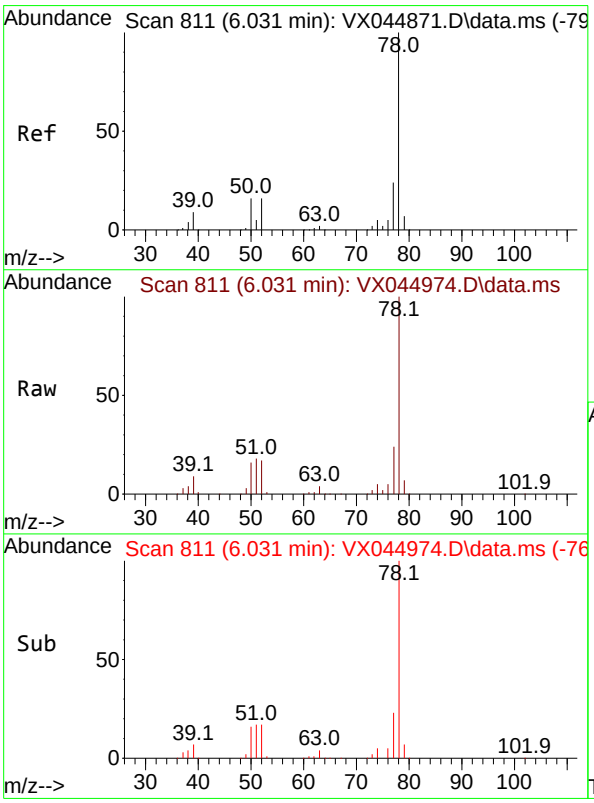
Ion	Ratio	Lower	Upper
83	100		
55	76.4	61.3	91.9
98	47.5	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

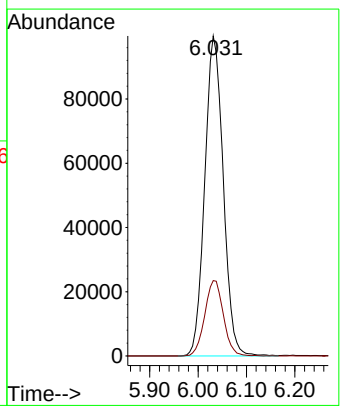
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

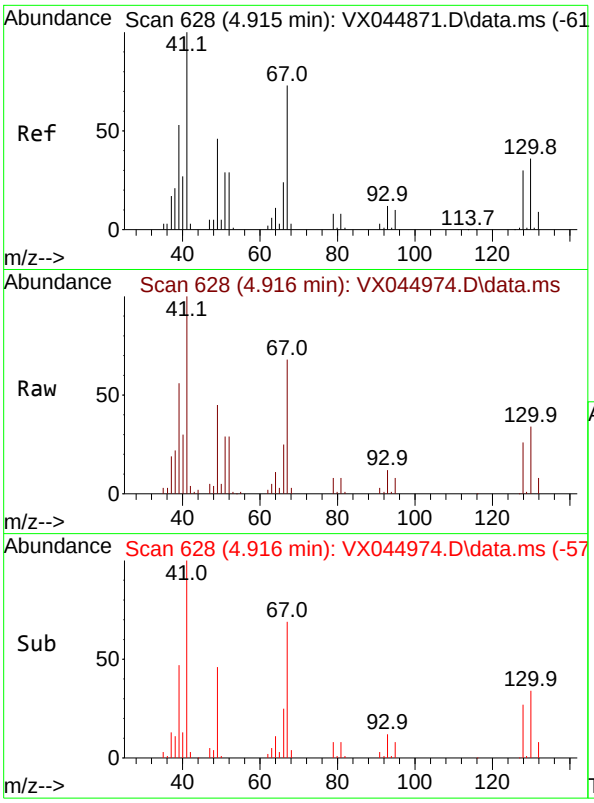


#40
Benzene
Concen: 52.680 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 78 Resp: 264712

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6

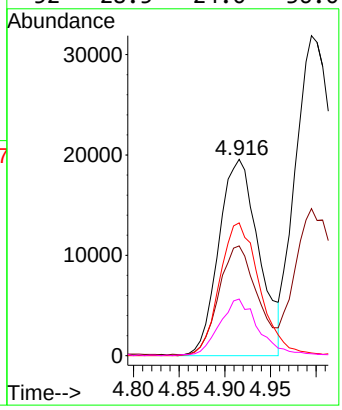




#41
Methacrylonitrile
Concen: 62.407 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 41 Resp: 5979

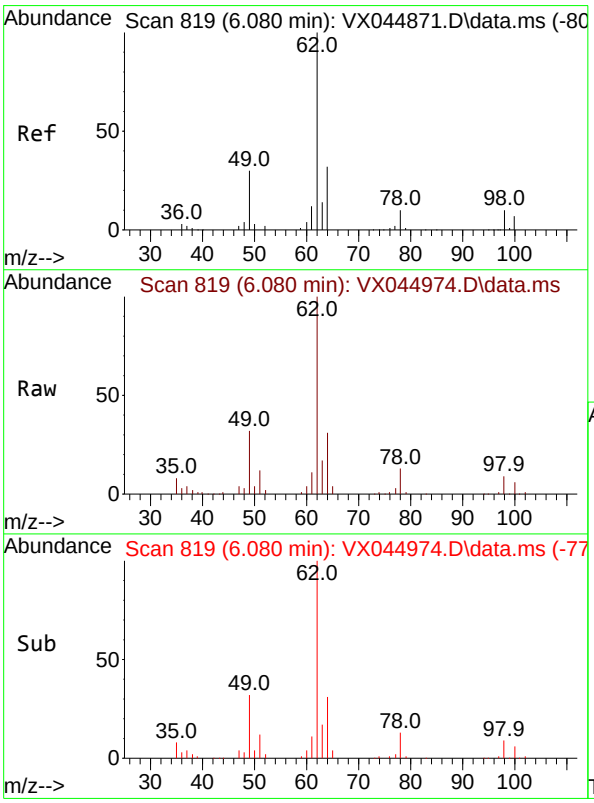
Ion	Ratio	Lower	Upper
41	100		
39	54.2	43.1	64.7
67	67.6	57.0	85.6
52	28.5	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

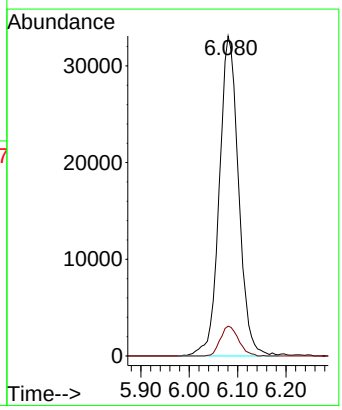
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

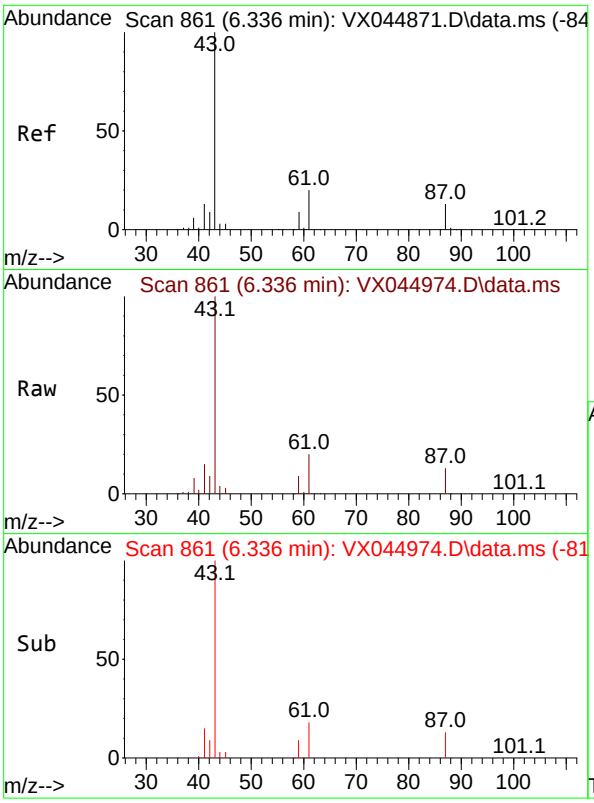


#42
1,2-Dichloroethane
Concen: 57.228 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 62 Resp: 91650

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	19.4

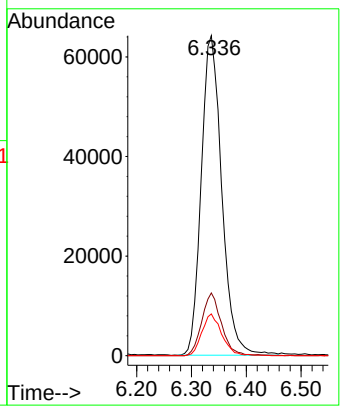




#43
Isopropyl Acetate
Concen: 57.723 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 16684

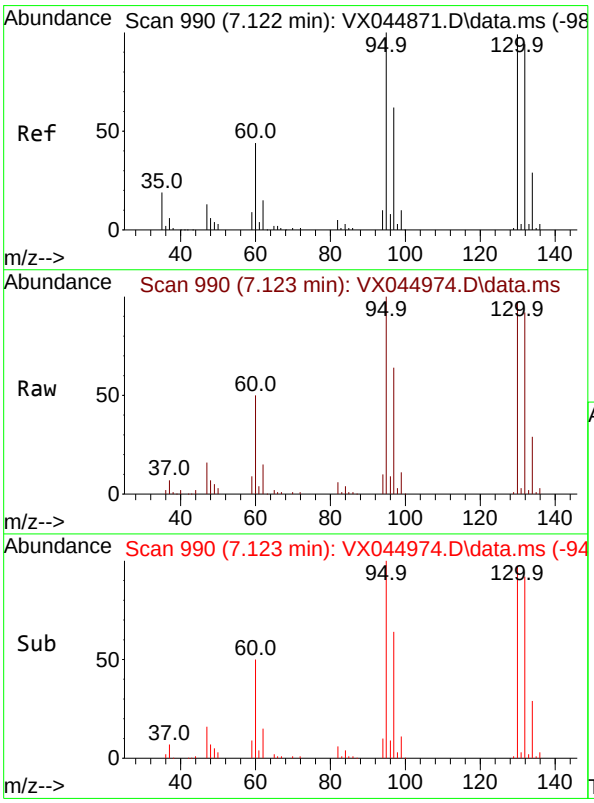
Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.8	23.8
87	12.7	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

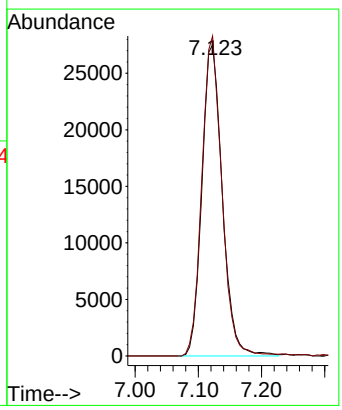
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

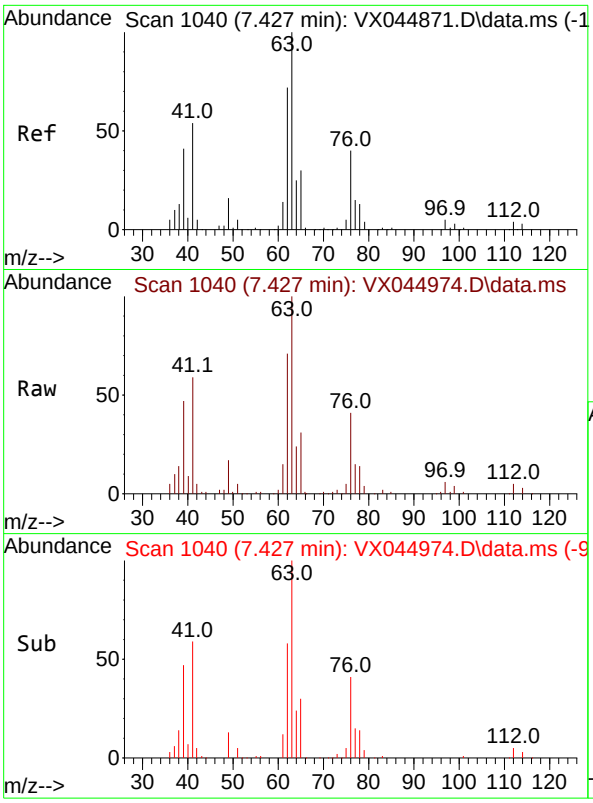


#44
Trichloroethene
Concen: 53.693 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:130 Resp: 61670

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	202.4

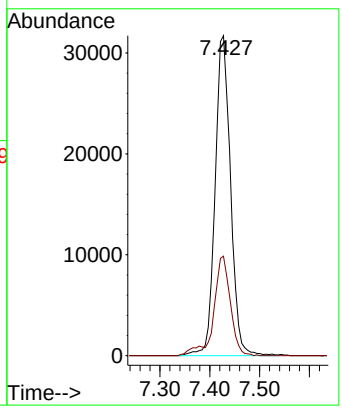




#45
1,2-Dichloropropane
Concen: 54.668 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 63 Resp: 6834

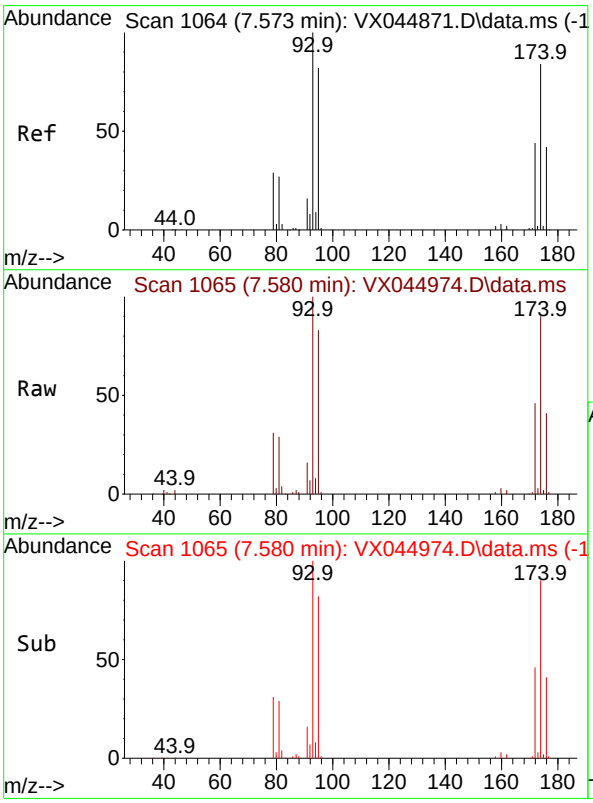
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

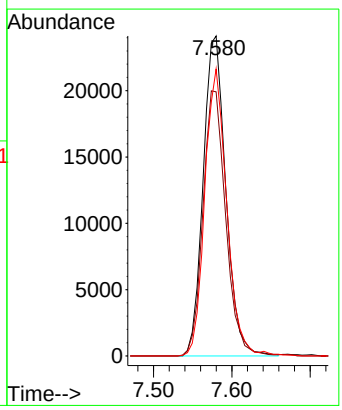
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

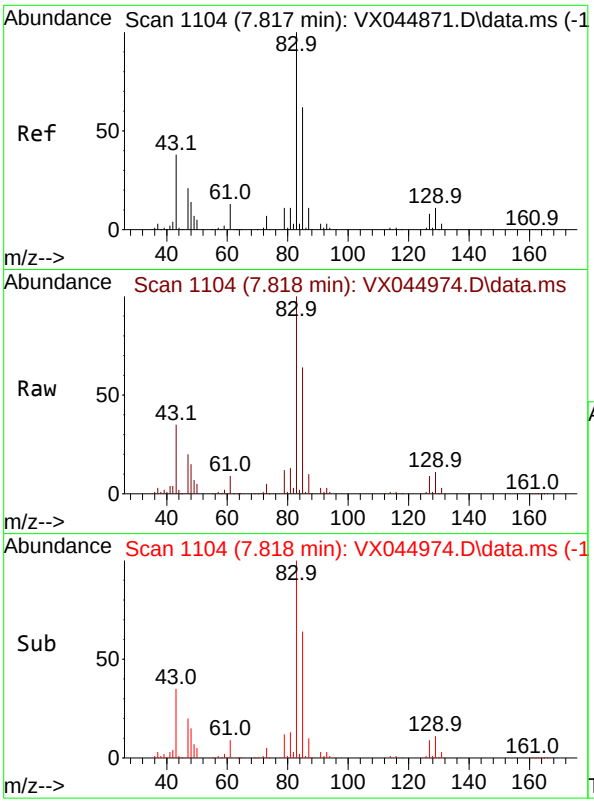


#46
Dibromomethane
Concen: 55.940 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 93 Resp: 48498

Ion	Ratio	Lower	Upper
93	100		
95	83.4	66.2	99.4
174	87.2	69.9	104.9

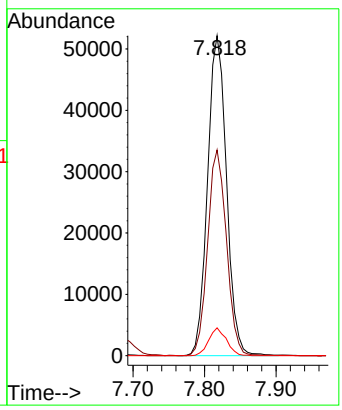




#47
Bromodichloromethane
Concen: 57.216 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 83 Resp: 9604

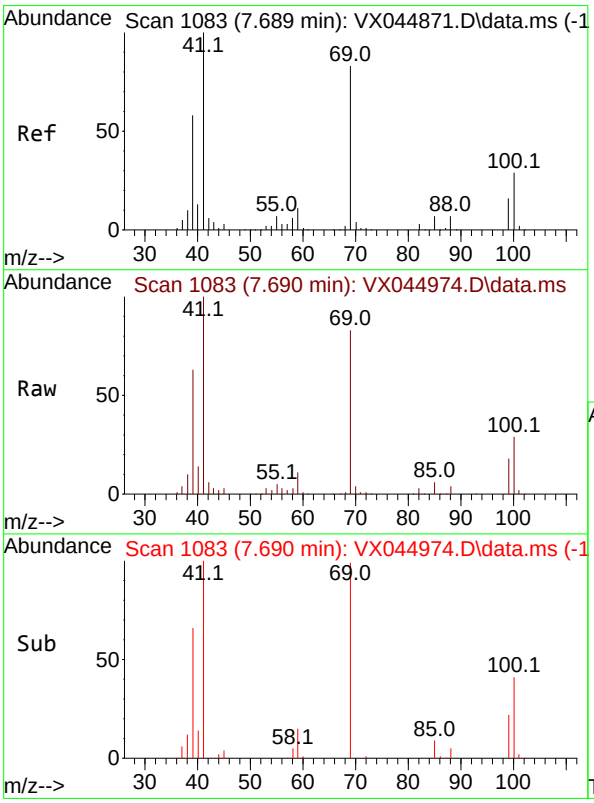
Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0
127	8.7	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

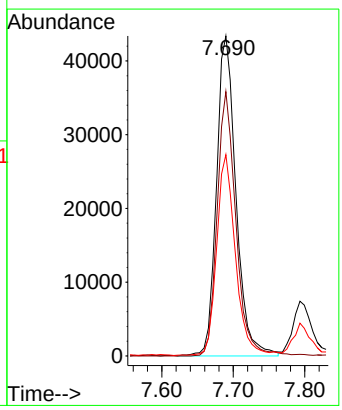
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

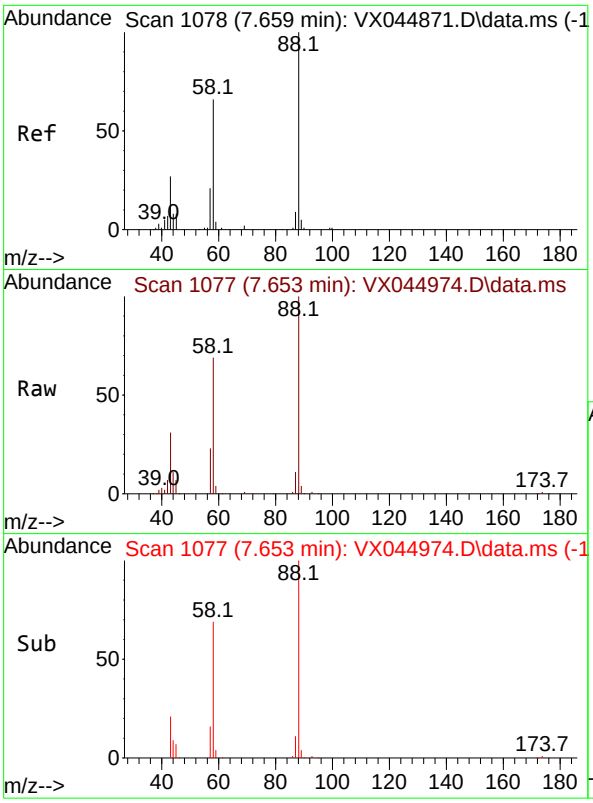


#48
Methyl methacrylate
Concen: 60.311 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 41 Resp: 82197

Ion	Ratio	Lower	Upper
41	100		
69	79.7	65.8	98.8
39	60.1	46.4	69.6

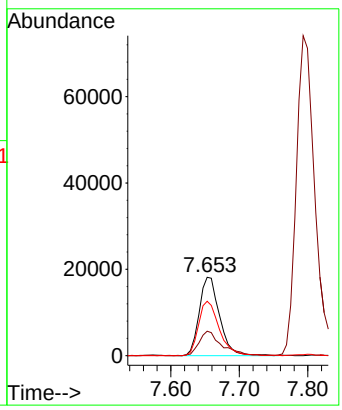




#49
1,4-Dioxane
Concen: 1276.524 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 88 Resp: 3732

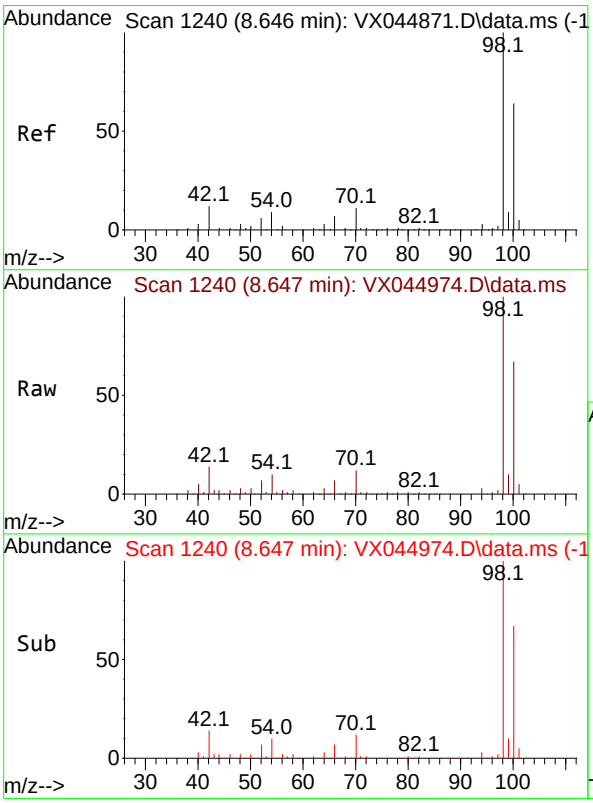
Ion	Ratio	Lower	Upper
88	100		
43	35.1	26.6	39.8
58	70.8	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

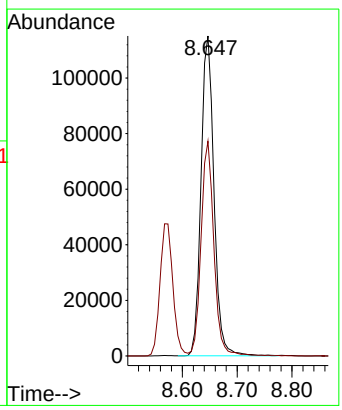
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

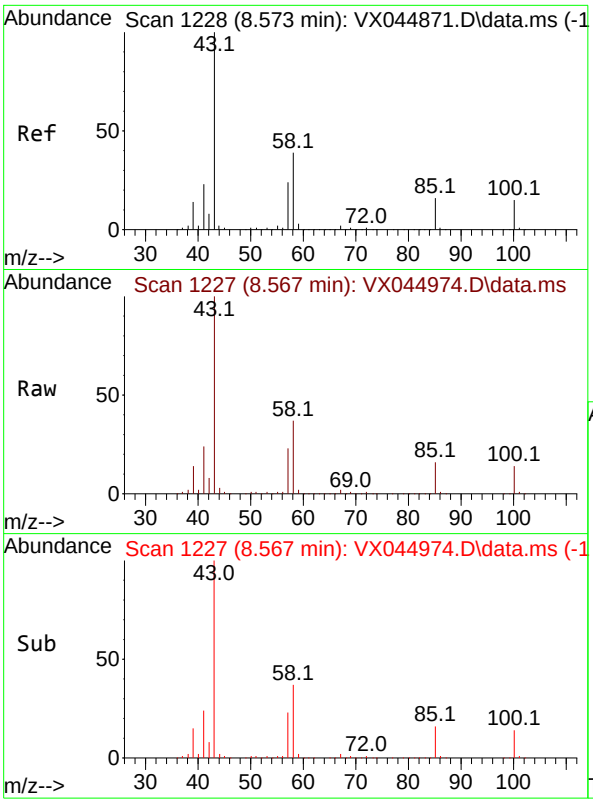


#50
Toluene-d8
Concen: 44.728 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 98 Resp: 188654

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.7	79.1

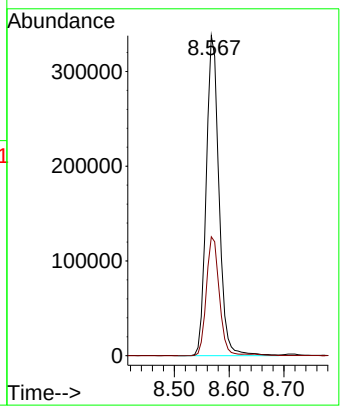




#51
4-Methyl-2-Pentanone
Concen: 309.071 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 54310

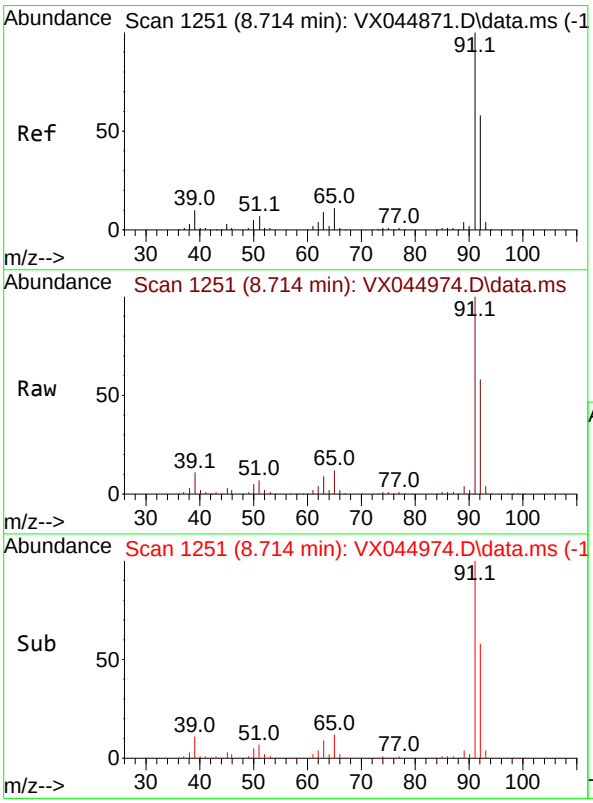
Ion	Ratio	Lower	Upper
43	100		
58	38.3	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

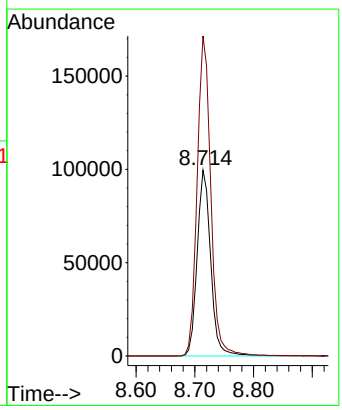
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

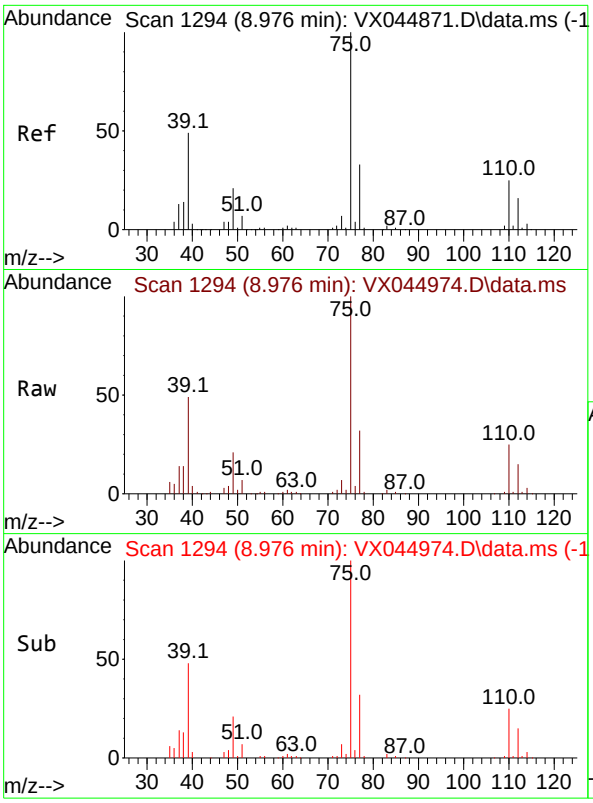


#52
Toluene
Concen: 53.206 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 92 Resp: 159226

Ion	Ratio	Lower	Upper
92	100		
91	173.9	137.4	206.2

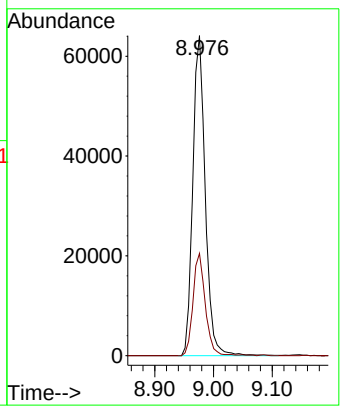




#53
t-1,3-Dichloropropene
Concen: 55.632 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 9450

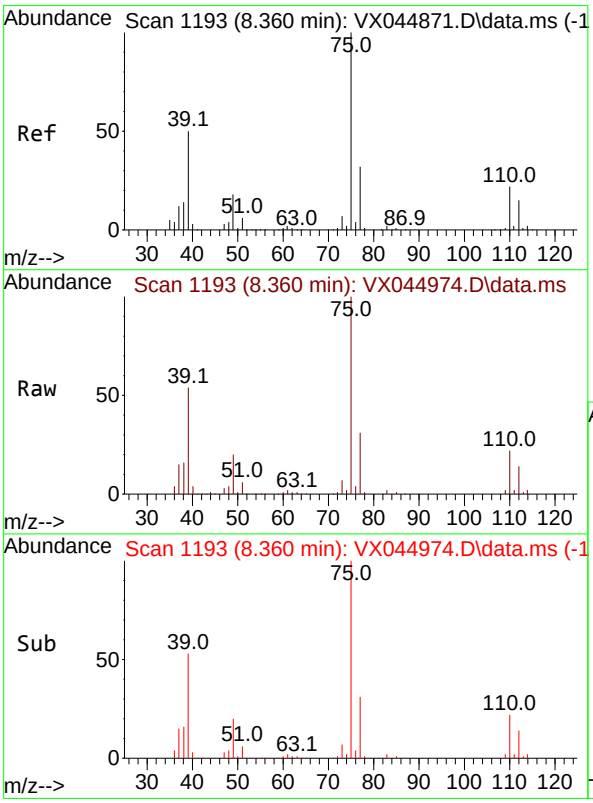
Ion	Ratio	Lower	Upper
75	100		
77	32.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

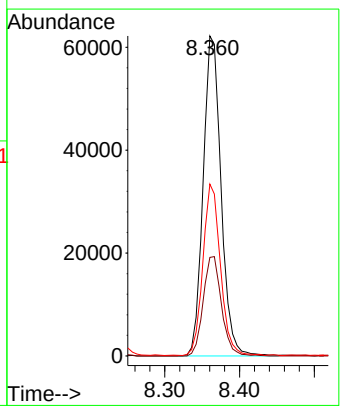
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

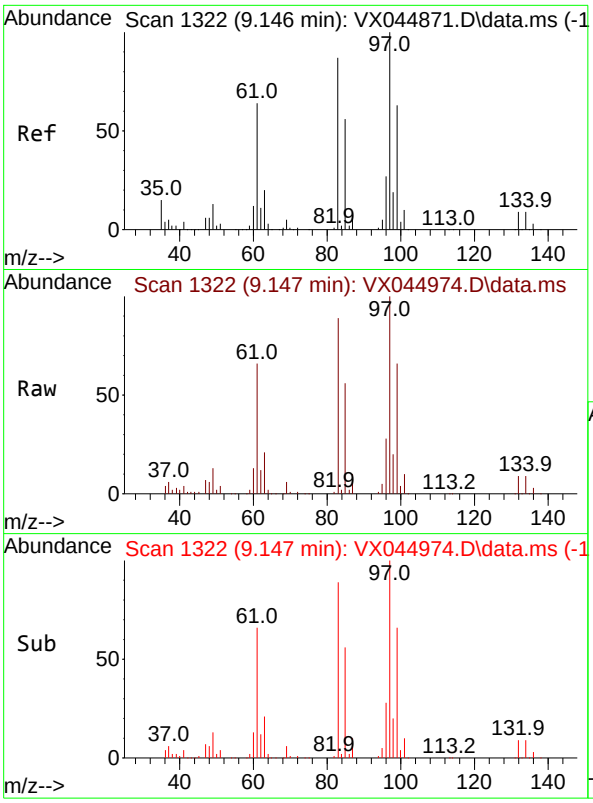


#54
cis-1,3-Dichloropropene
Concen: 54.707 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 103618

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.3	37.9
39	53.5	40.0	60.0

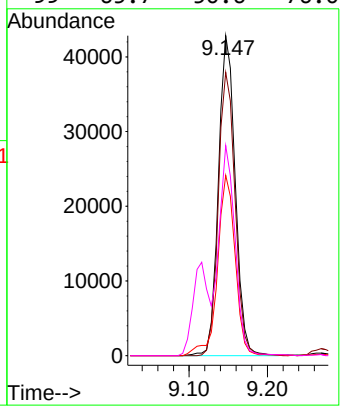




#55
1,1,2-Trichloroethane
Concen: 55.708 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 97 Resp: 6408

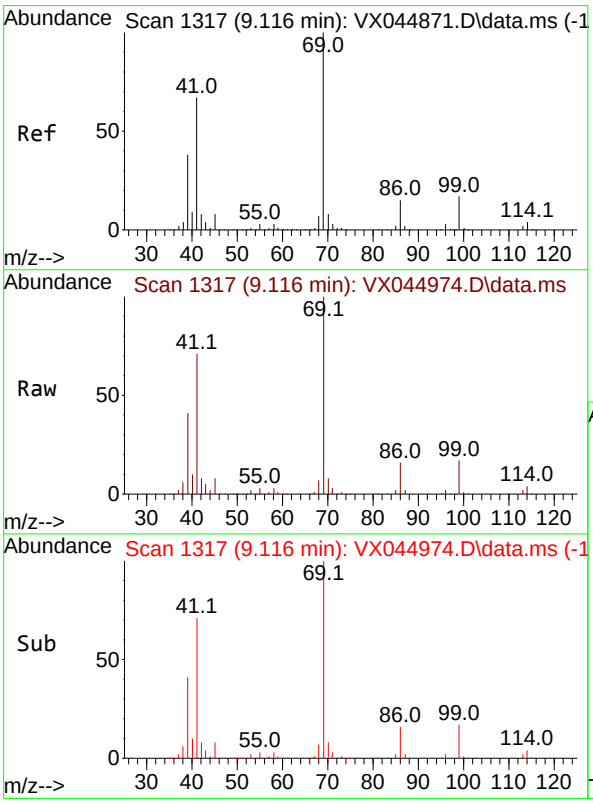
Ion	Ratio	Lower	Upper
97	100		
83	88.6	69.8	104.6
85	56.4	44.8	67.2
99	65.7	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

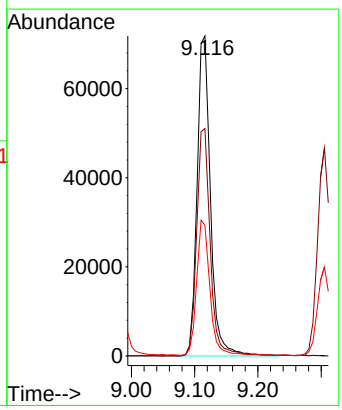
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

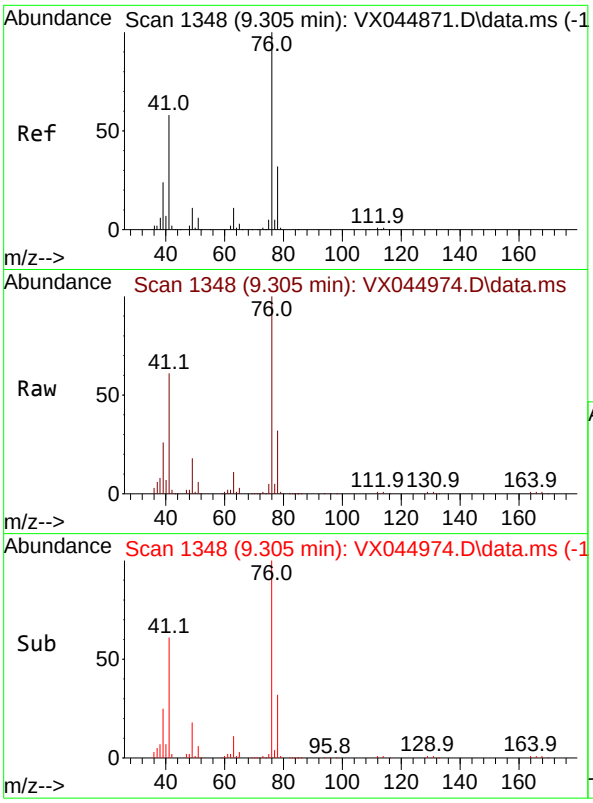


#56
Ethyl methacrylate
Concen: 57.122 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 69 Resp: 106133

Ion	Ratio	Lower	Upper
69	100		
41	72.2	55.2	82.8
39	41.2	30.8	46.2

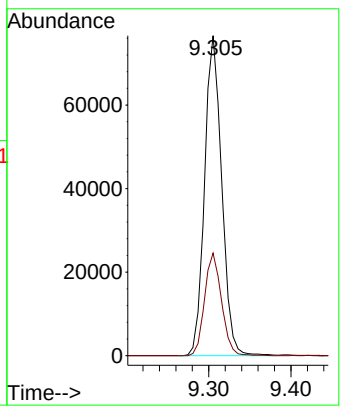




#57
1,3-Dichloropropane
Concen: 55.110 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 76 Resp: 11092

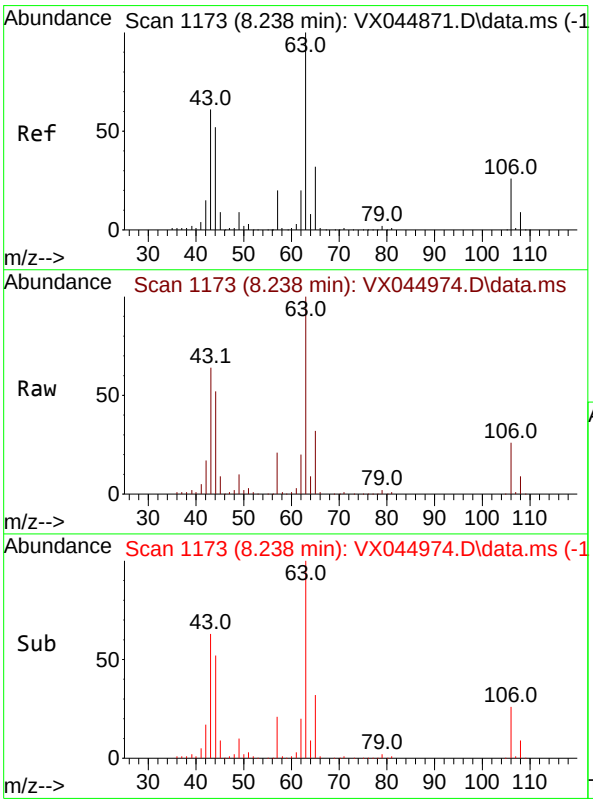
Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

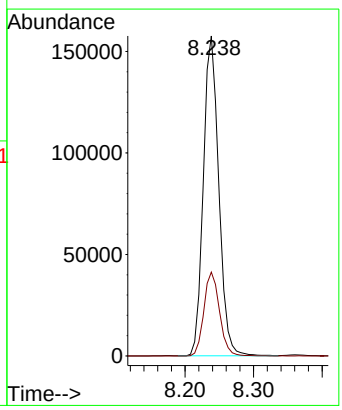
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

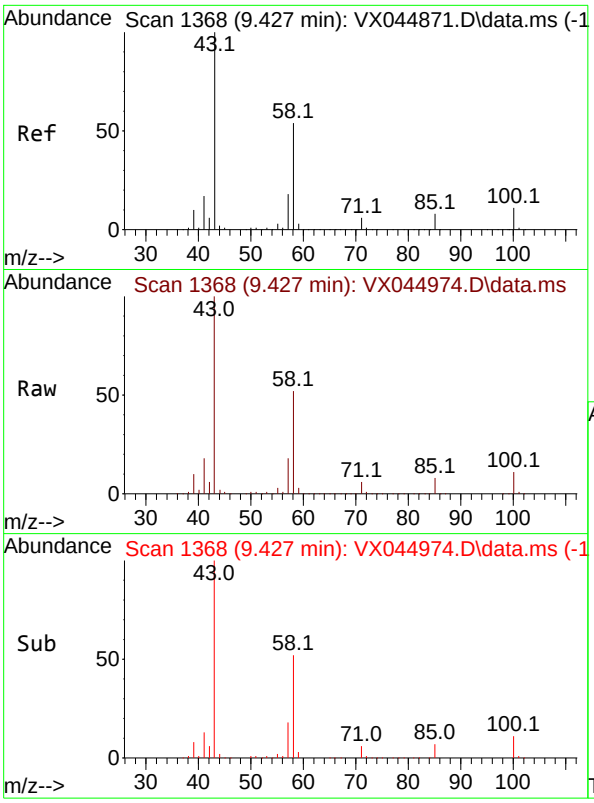


#58
2-Chloroethyl Vinyl ether
Concen: 270.450 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 63 Resp: 246733

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.3	31.9

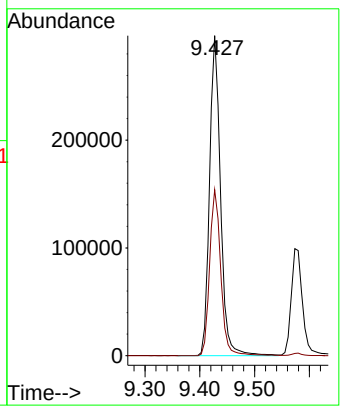




#59
2-Hexanone
Concen: 324.260 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 41054

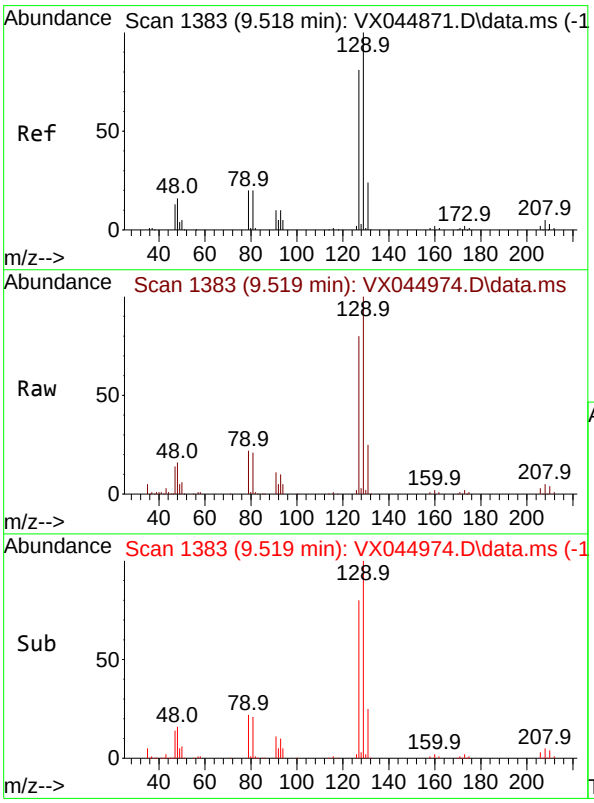
Ion	Ratio	Lower	Upper
43	100		
58	52.7	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

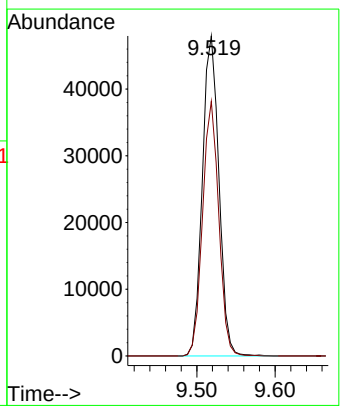
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

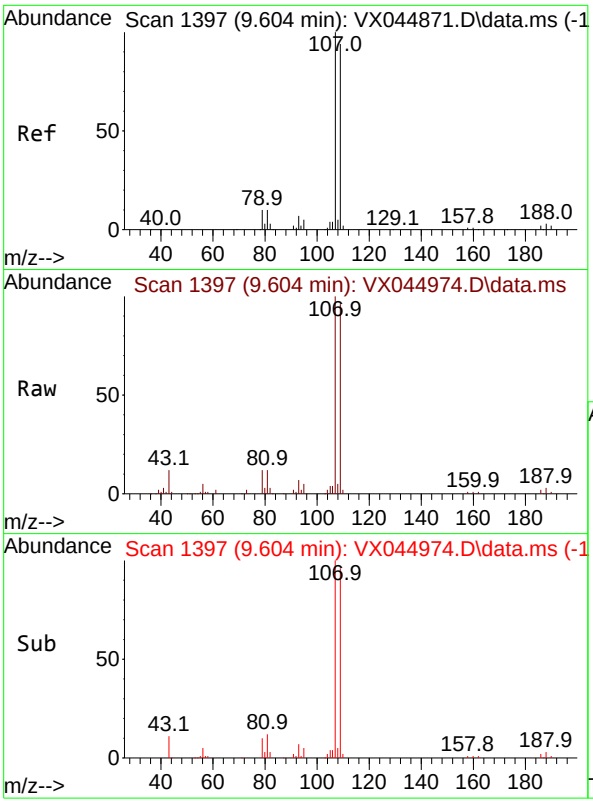


#60
Dibromochloromethane
Concen: 57.145 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:129 Resp: 70306

Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.1	117.3

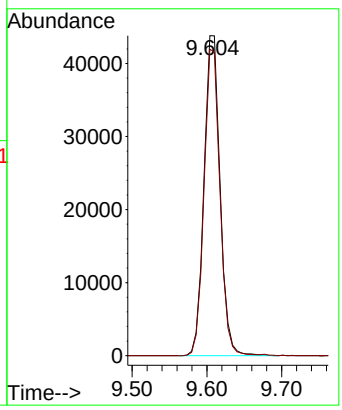




#61
1,2-Dibromoethane
Concen: 56.187 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:107 Resp: 6551

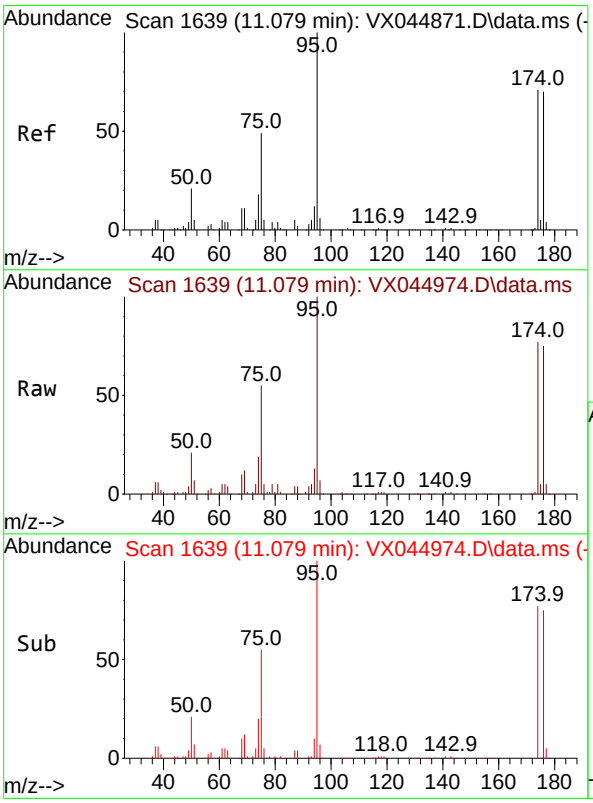
Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

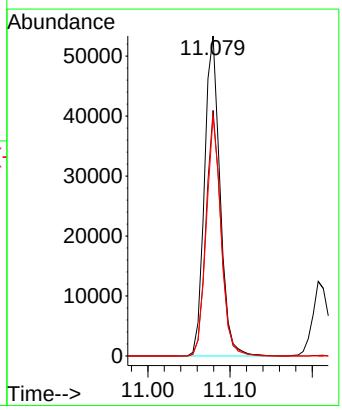
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

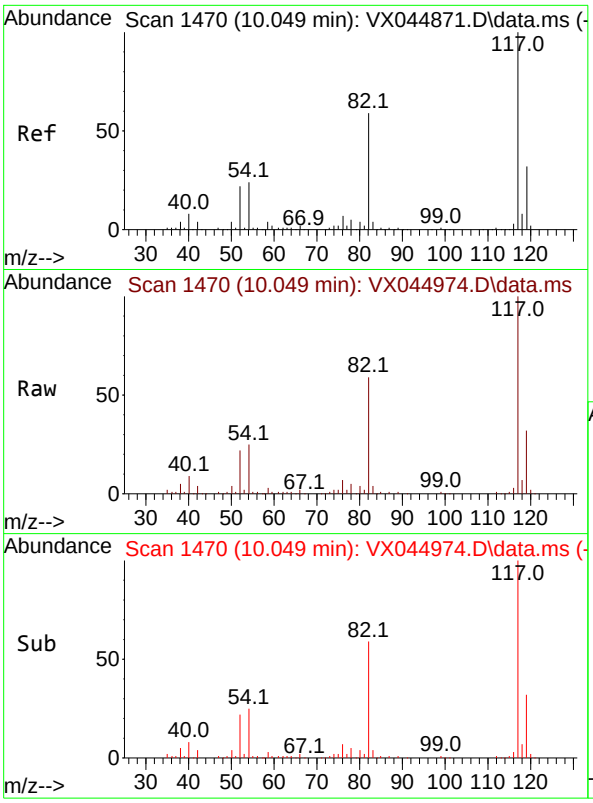


#62
4-Bromofluorobenzene
Concen: 49.160 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 95 Resp: 69901

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

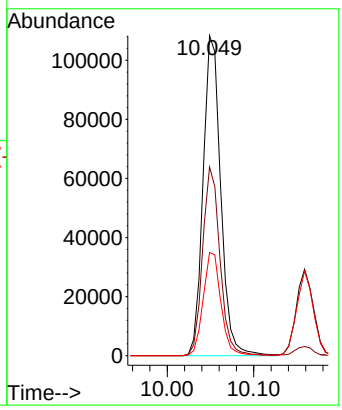




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:117 Resp: 15346

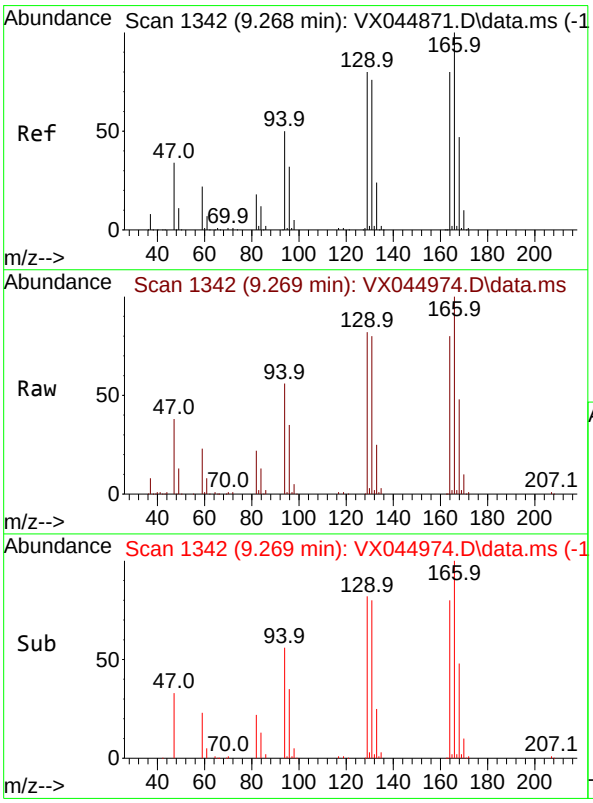
Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.5	71.3
119	32.3	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

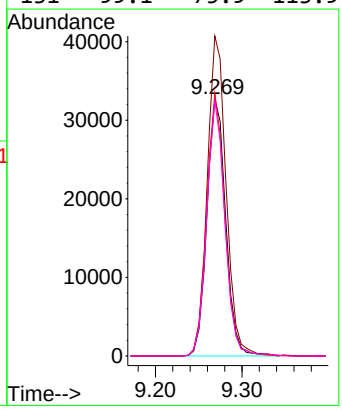
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

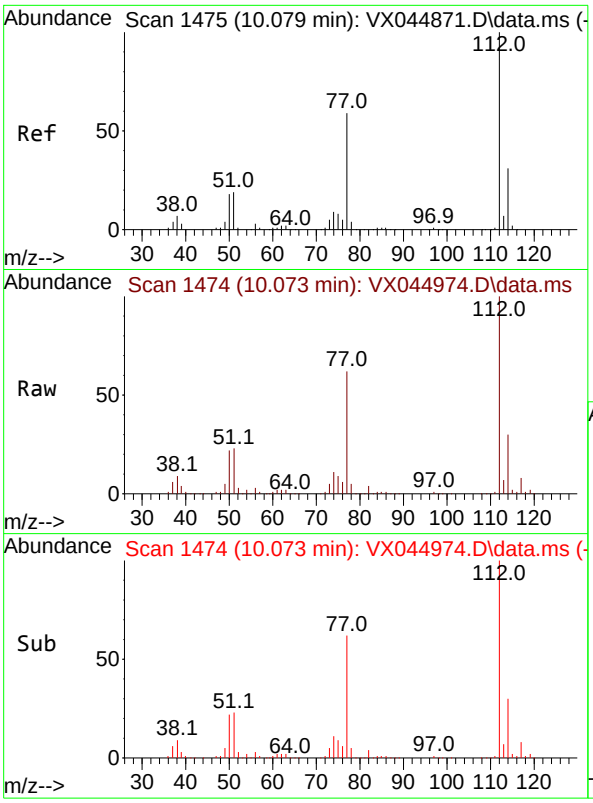


#64
Tetrachloroethene
Concen: 50.766 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:164 Resp: 49133

Ion	Ratio	Lower	Upper
164	100		
166	124.5	100.4	150.6
129	102.0	79.9	119.9
131	99.1	75.9	113.9

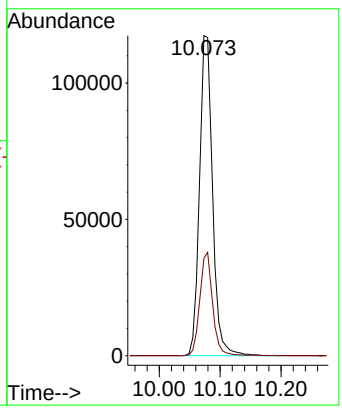




#65
Chlorobenzene
Concen: 53.124 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:112 Resp: 17511

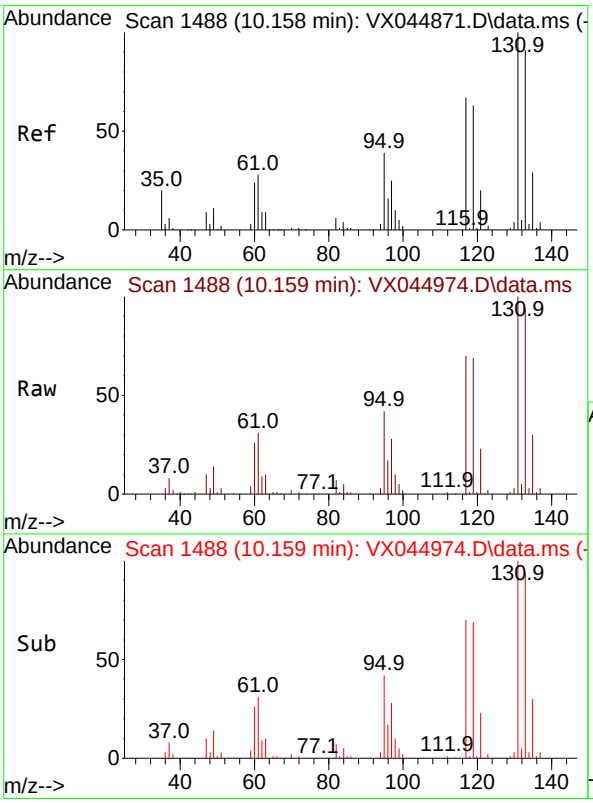
Ion	Ratio	Lower	Upper
112	100		
114	30.5	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

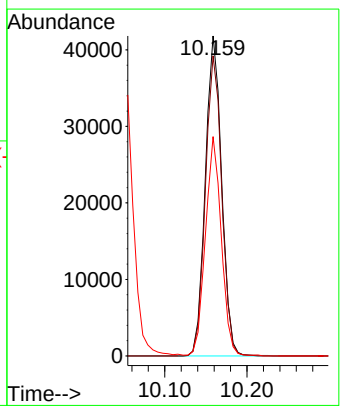
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

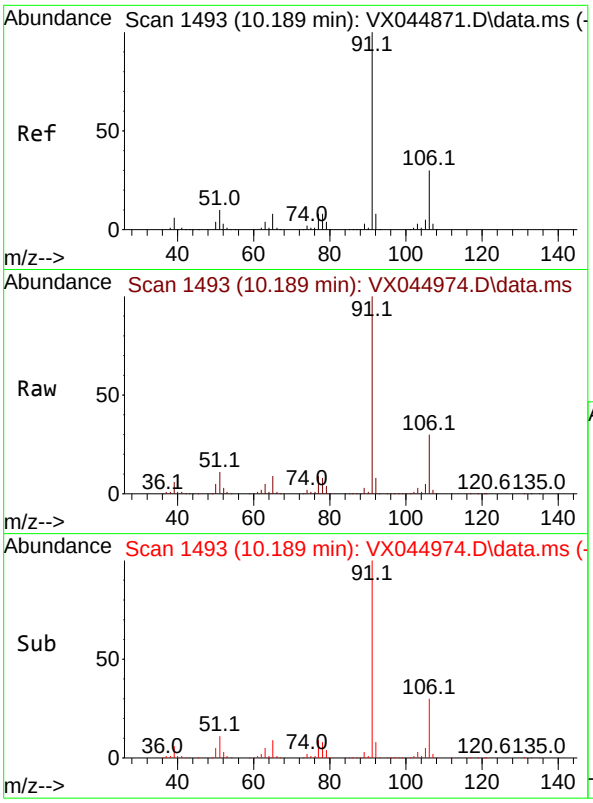


#66
1,1,1,2-Tetrachloroethane
Concen: 54.322 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:131 Resp: 57633

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.1	141.3
119	66.9	33.6	100.6

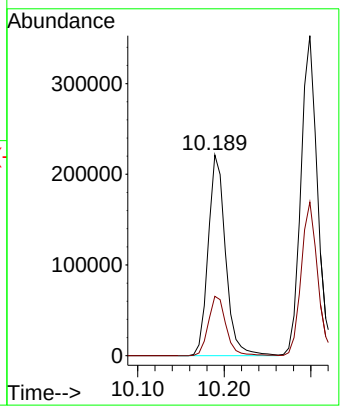




#67
Ethyl Benzene
Concen: 53.064 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 91 Resp: 30866

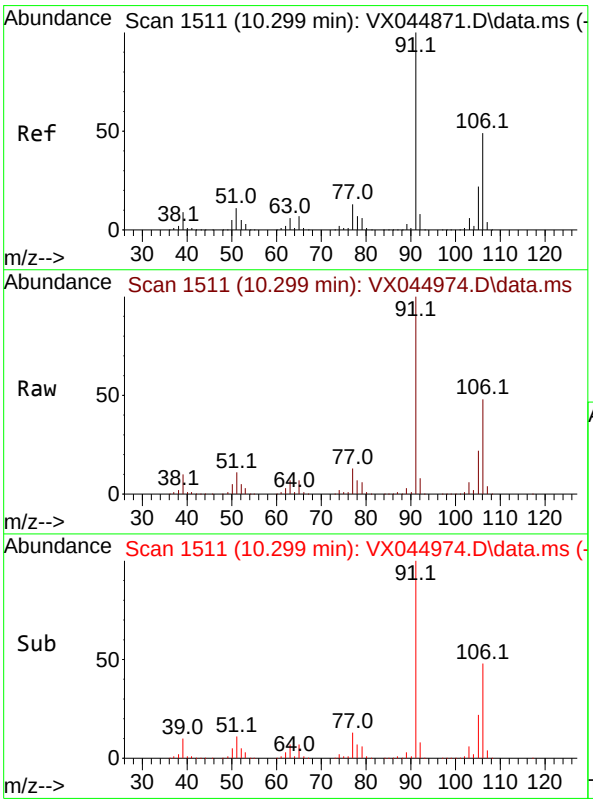
Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

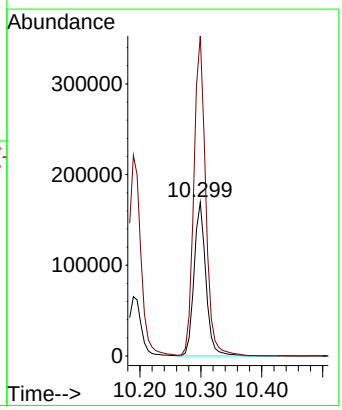
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

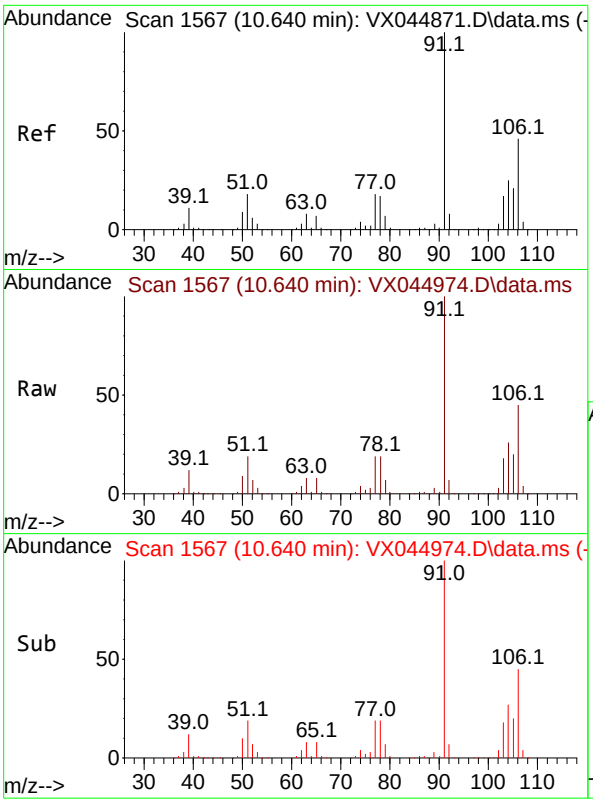


#68
m/p-Xylenes
Concen: 105.988 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:106 Resp: 227422

Ion	Ratio	Lower	Upper
106	100		
91	209.1	164.3	246.5

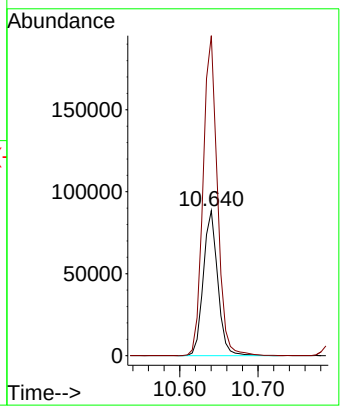




#69
o-Xylene
Concen: 52.414 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:106 Resp: 11285

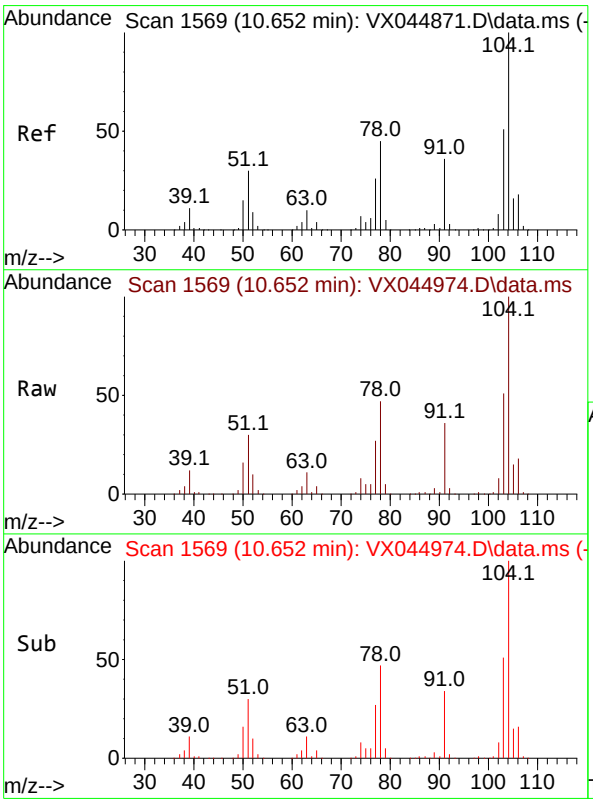
Ion	Ratio	Lower	Upper
106	100		
91	219.6	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

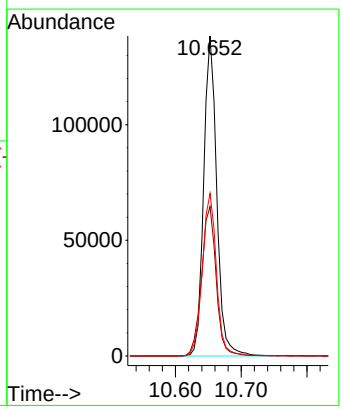
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

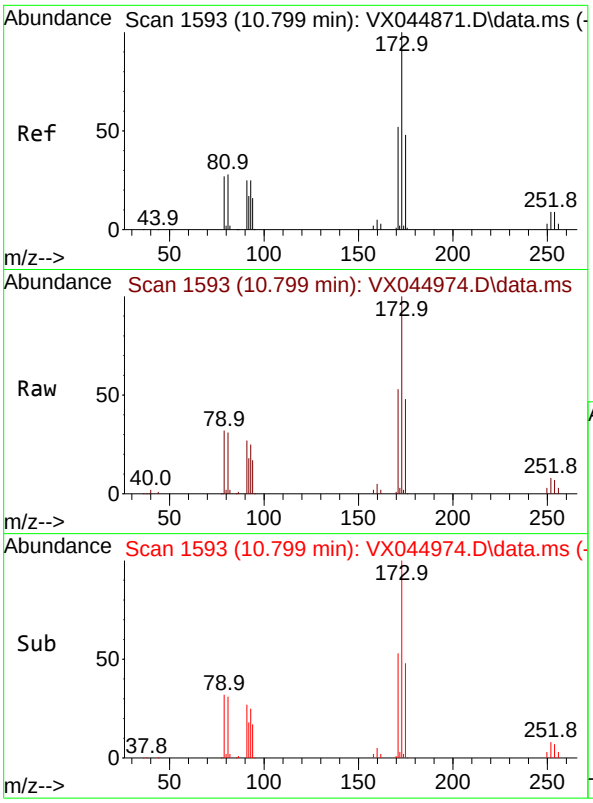


#70
Styrene
Concen: 55.172 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:104 Resp: 191380

Ion	Ratio	Lower	Upper
104	100		
78	52.3	40.5	60.7
103	55.0	43.6	65.4

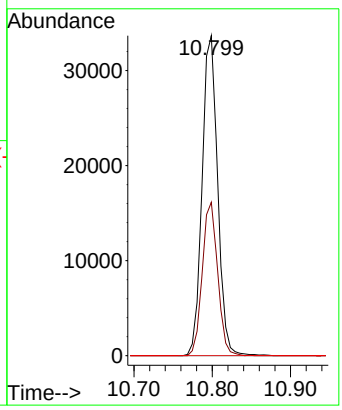




#71
Bromoform
Concen: 58.514 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

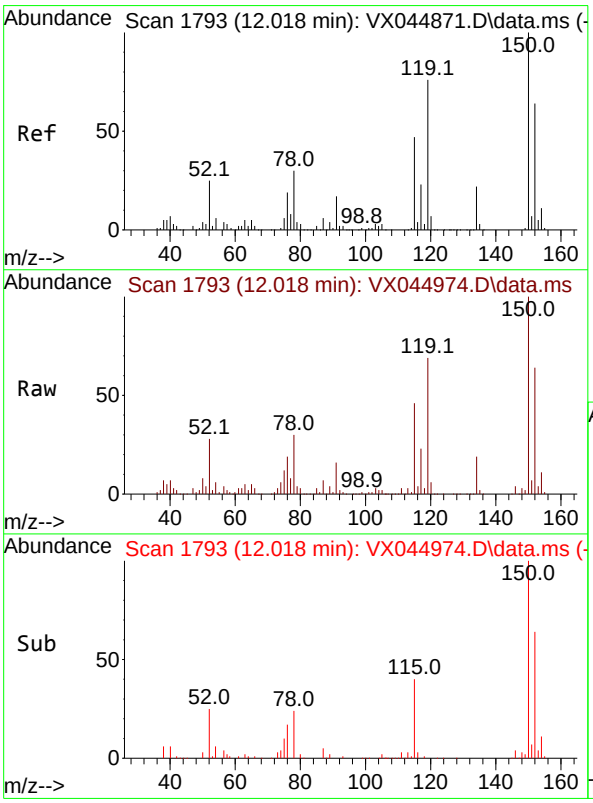
Tgt Ion:173 Resp: 4633

Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

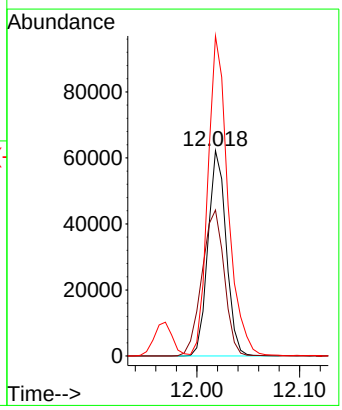
Manual Integrations APPROVED
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

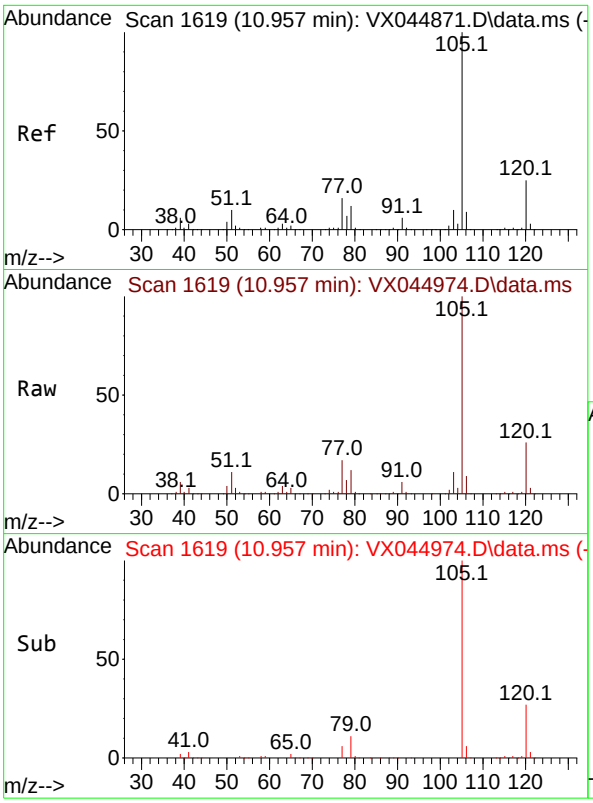


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:152 Resp: 76183

Ion	Ratio	Lower	Upper
152	100		
115	87.8	43.4	130.1
150	172.1	0.0	350.4





#73
Isopropylbenzene
Concen: 47.192 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

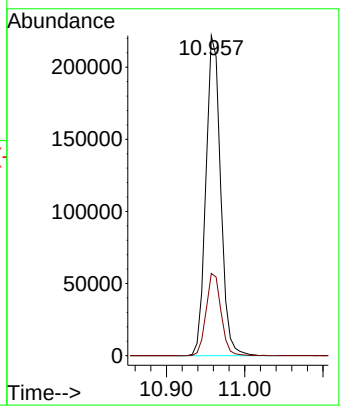
Tgt Ion:105 Resp: 28948

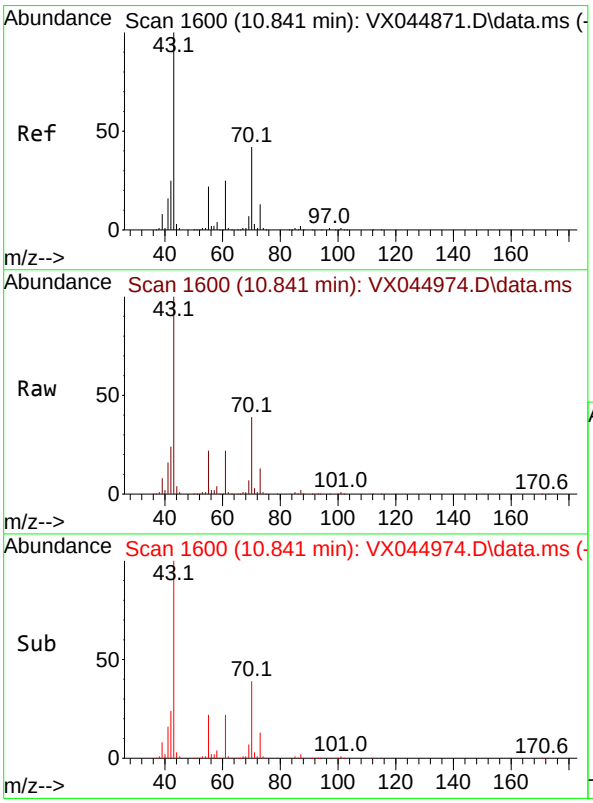
Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

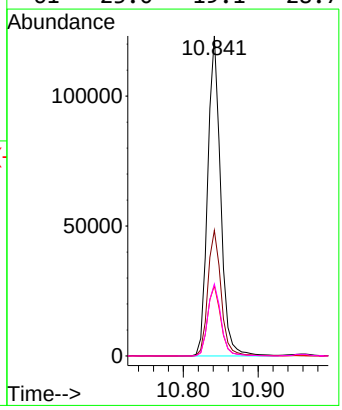


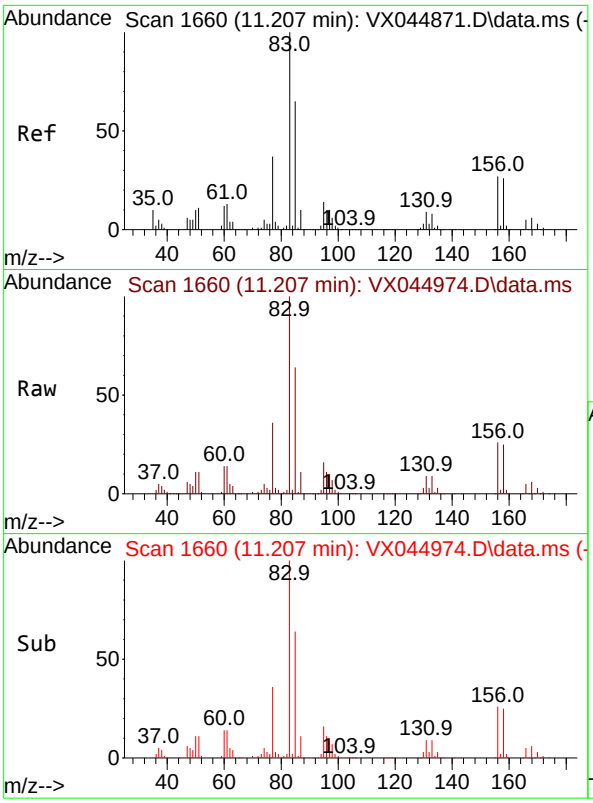


#74
N-amyl acetate
Concen: 53.307 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 147969

Ion	Ratio	Lower	Upper
43	100		
70	40.1	33.7	50.5
55	22.6	18.6	27.8
61	23.0	19.1	28.7

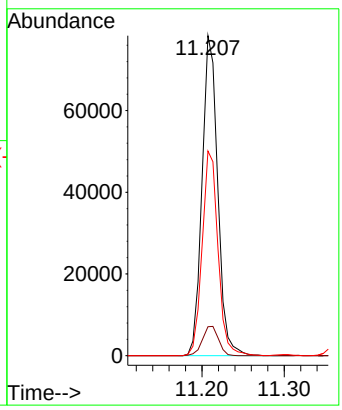




#75
1,1,2,2-Tetrachloroethane
Concen: 49.296 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 83 Resp: 10391

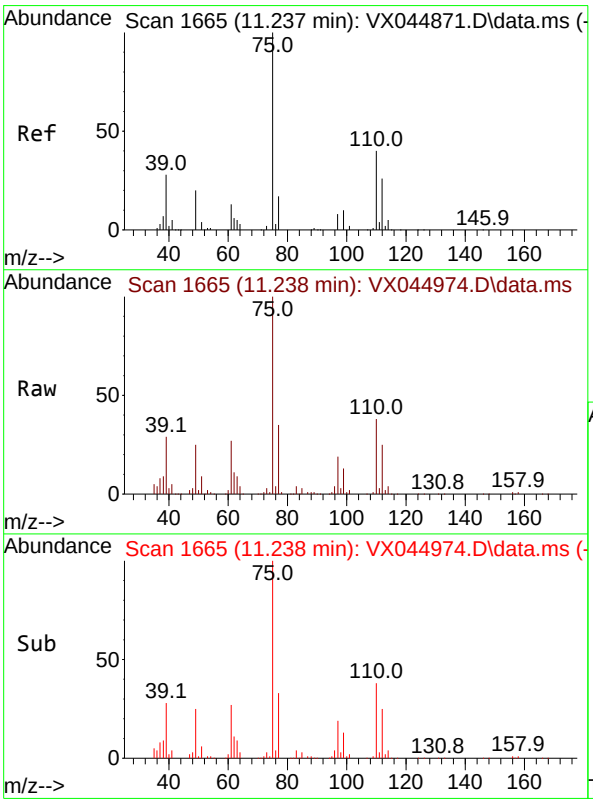
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.5
85	64.8	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

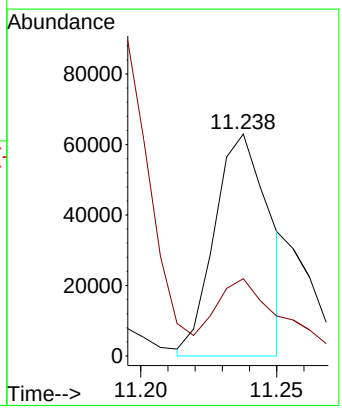
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

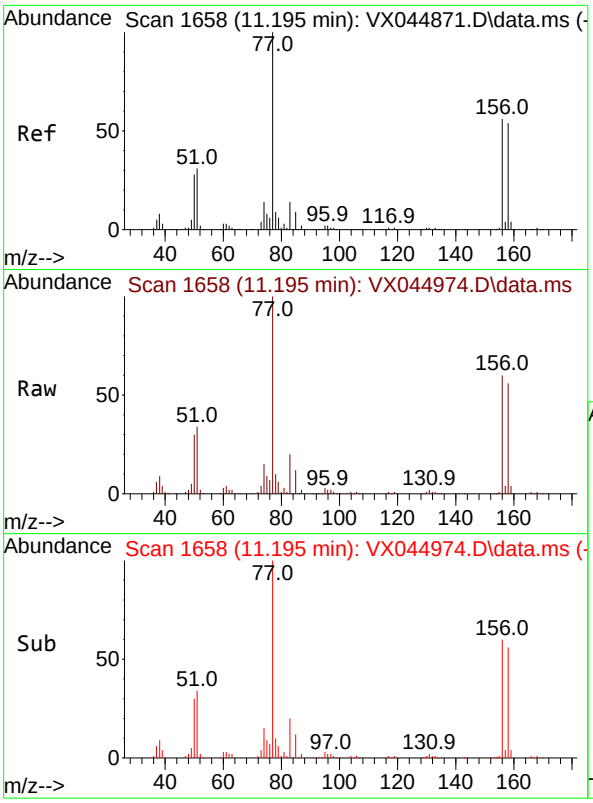


#76
1,2,3-Trichloropropane
Concen: 51.817 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 87524

Ion	Ratio	Lower	Upper
75	100		
77	42.5	21.9	65.7

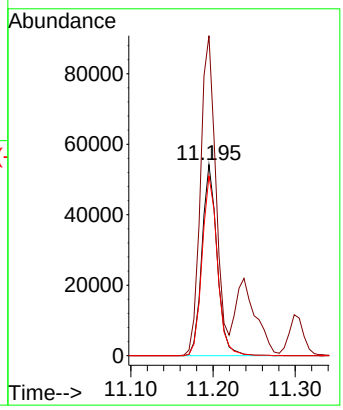




#77
Bromobenzene
Concen: 49.693 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:156 Resp: 6910

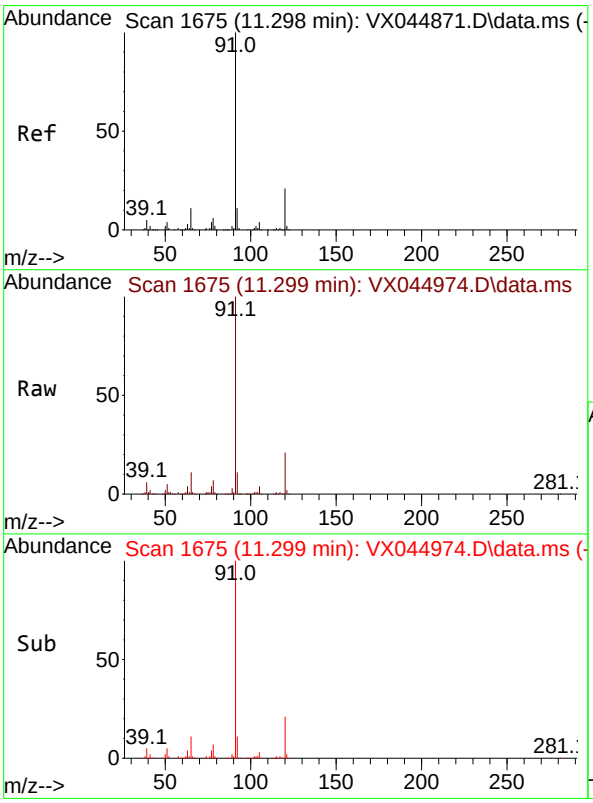
Ion	Ratio	Lower	Upper
156	100		
77	171.6	88.4	265.3
158	95.5	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

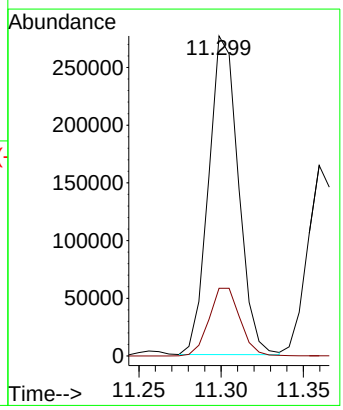
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

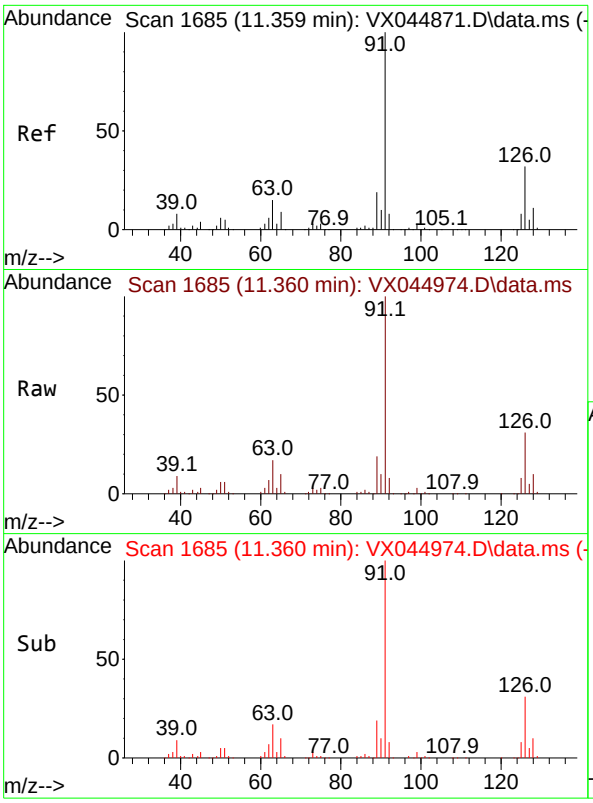


#78
n-propylbenzene
Concen: 49.081 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 91 Resp: 347506

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3





#79
2-Chlorotoluene
Concen: 47.769 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

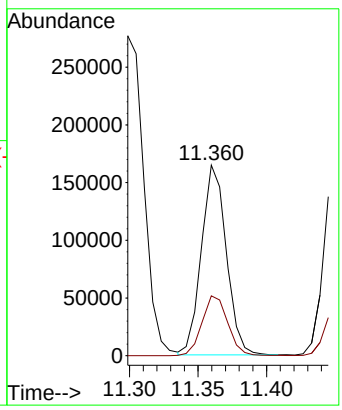
Tgt Ion: 91 Resp: 20786

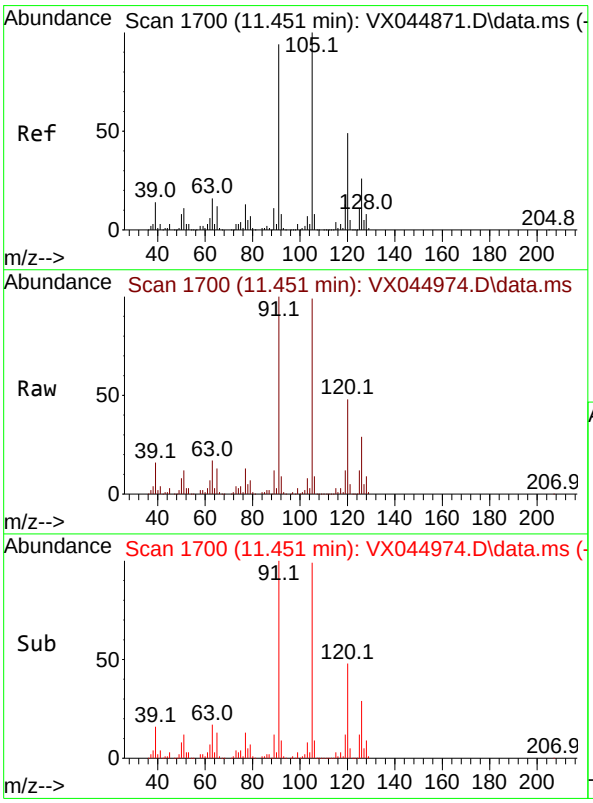
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

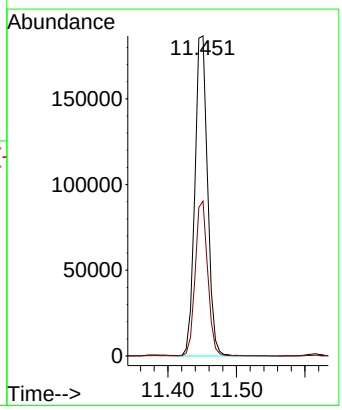


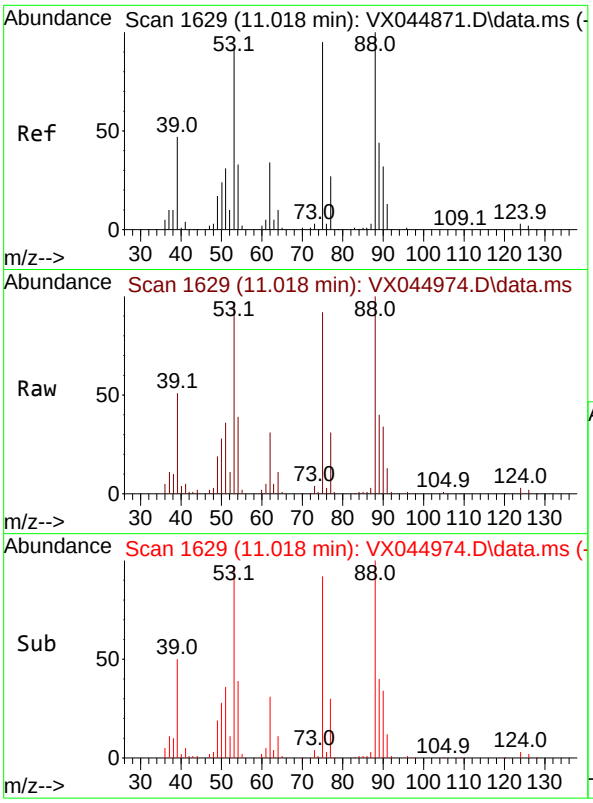


#80
1,3,5-Trimethylbenzene
Concen: 48.466 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:105 Resp: 241259

Ion	Ratio	Lower	Upper
105	100		
120	47.5	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 45.155 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

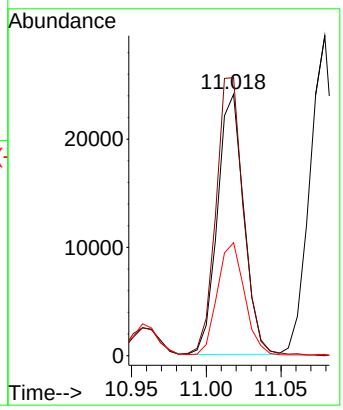
Tgt Ion: 75 Resp: 2965

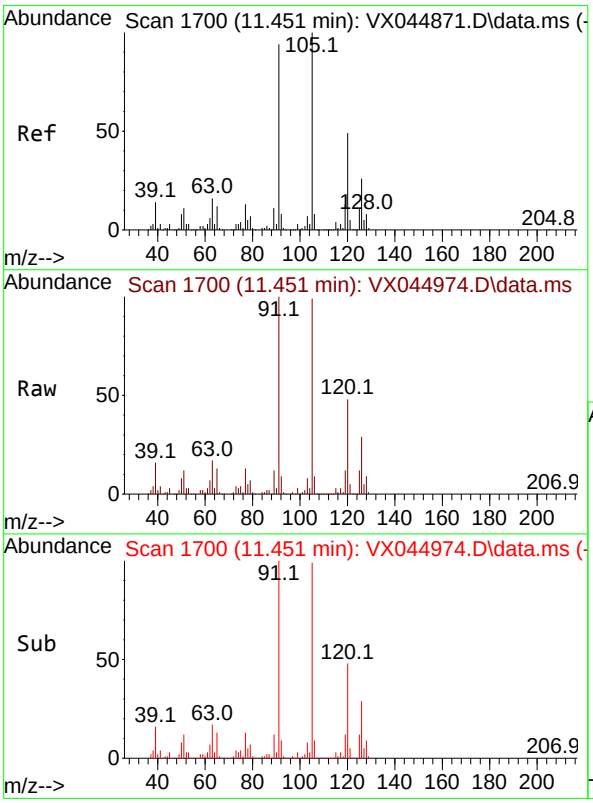
Ion	Ratio	Lower	Upper
75	100		
53	111.7	78.0	117.0
89	44.3	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

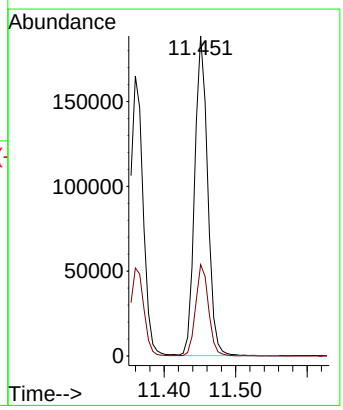


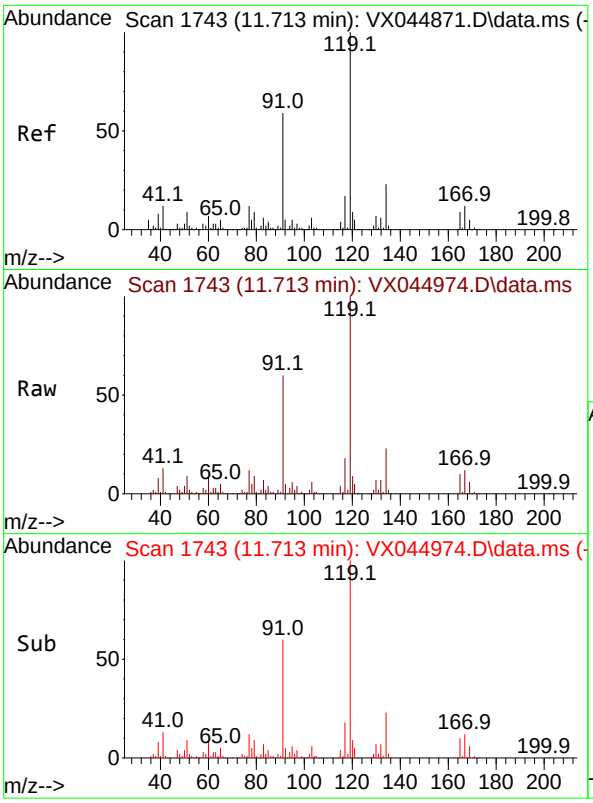


#82
4-Chlorotoluene
Concen: 49.168 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 91 Resp: 236705

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6

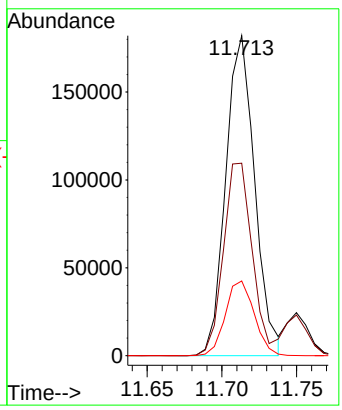




#83
tert-Butylbenzene
Concen: 48.679 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:119 Resp: 24514

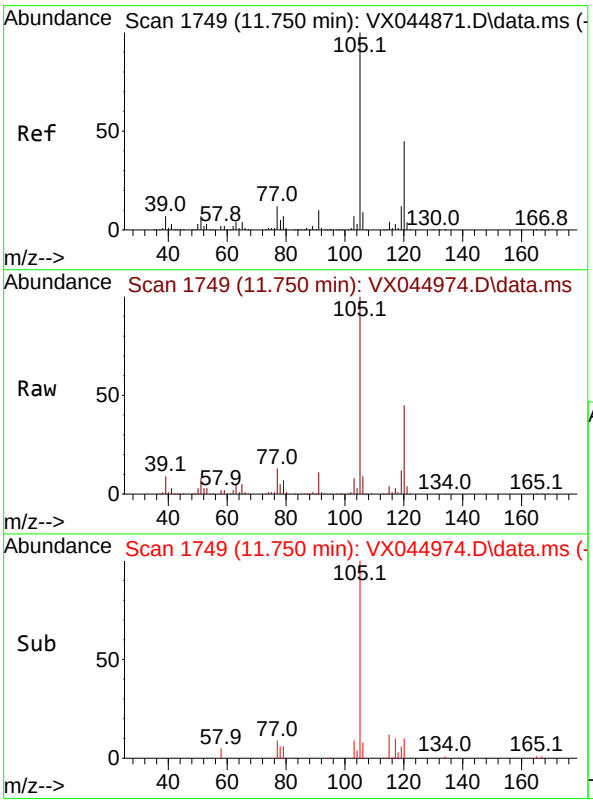
Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.1	87.4
134	23.3	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

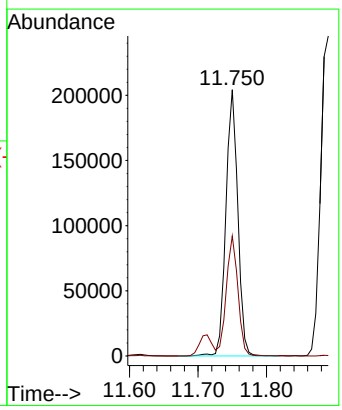
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

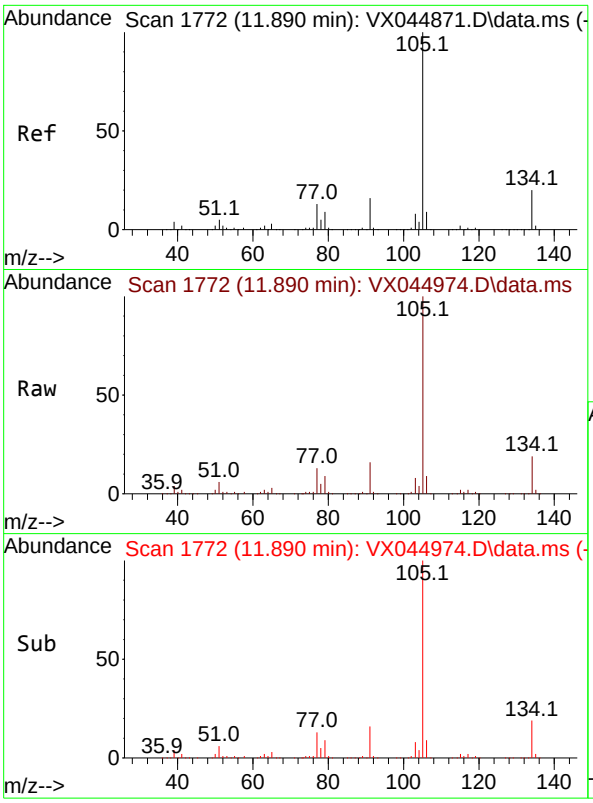


#84
1,2,4-Trimethylbenzene
Concen: 50.037 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:105 Resp: 245839

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.4	67.0

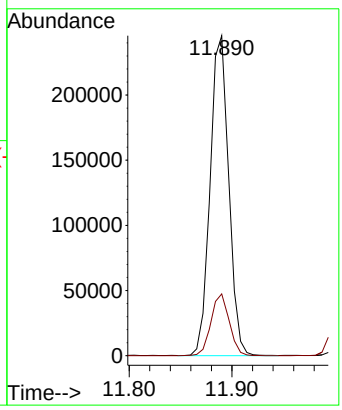




#85
sec-Butylbenzene
Concen: 49.539 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:105 Resp: 30891

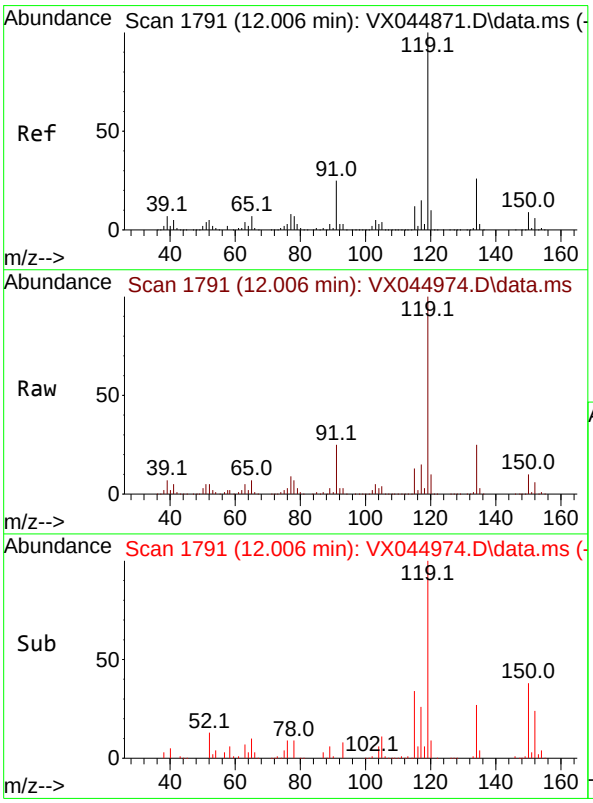
Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

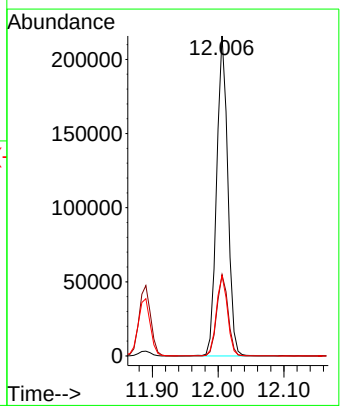
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

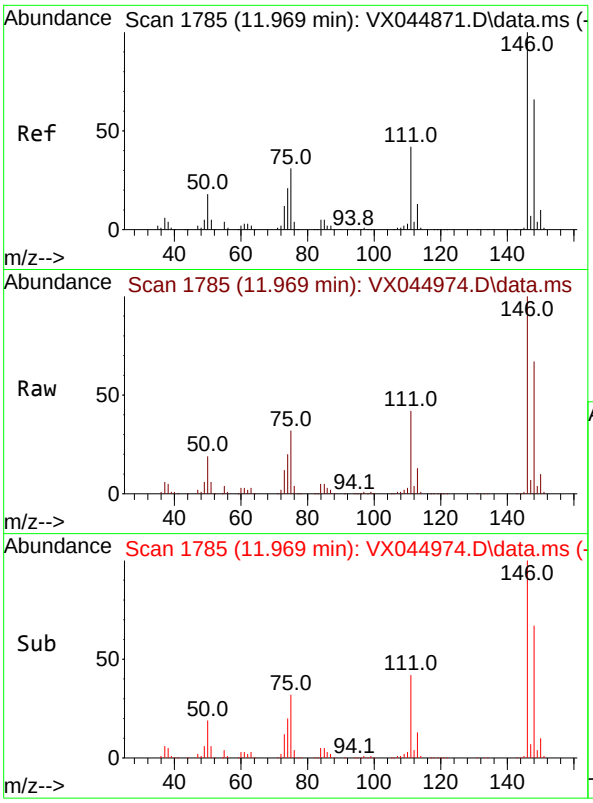


#86
p-Isopropyltoluene
Concen: 50.744 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:119 Resp: 254468

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	38.9
91	25.0	12.1	36.3

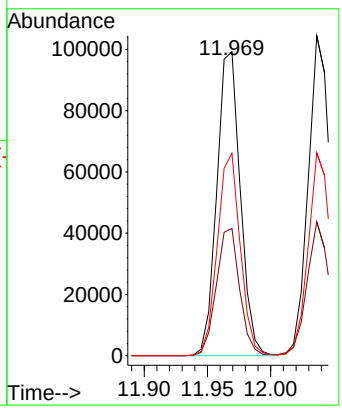




#87
1,3-Dichlorobenzene
Concen: 50.069 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:146 Resp: 12804

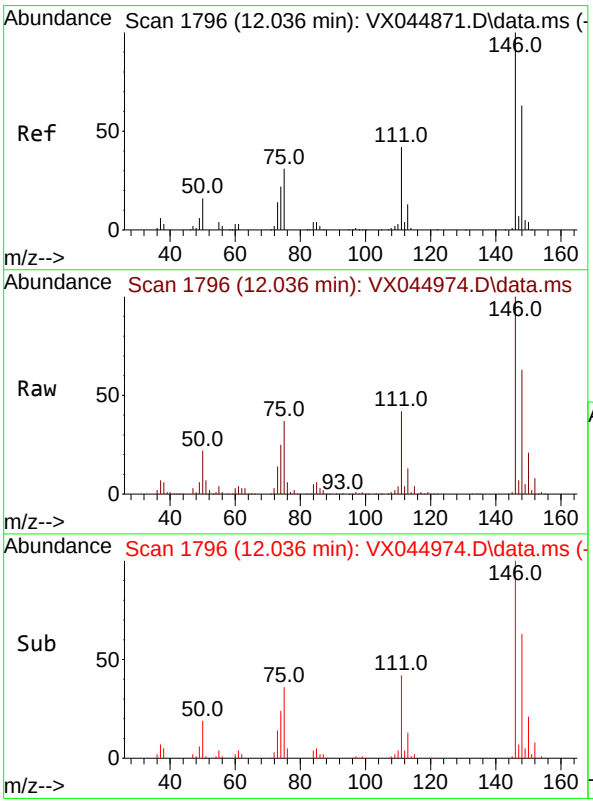
Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.2	63.6
148	64.9	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

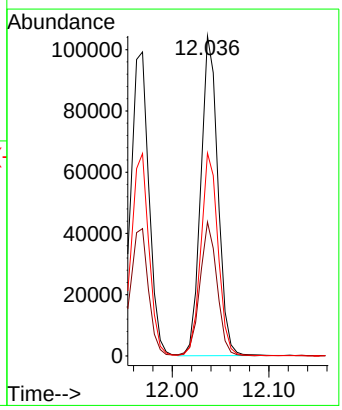
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

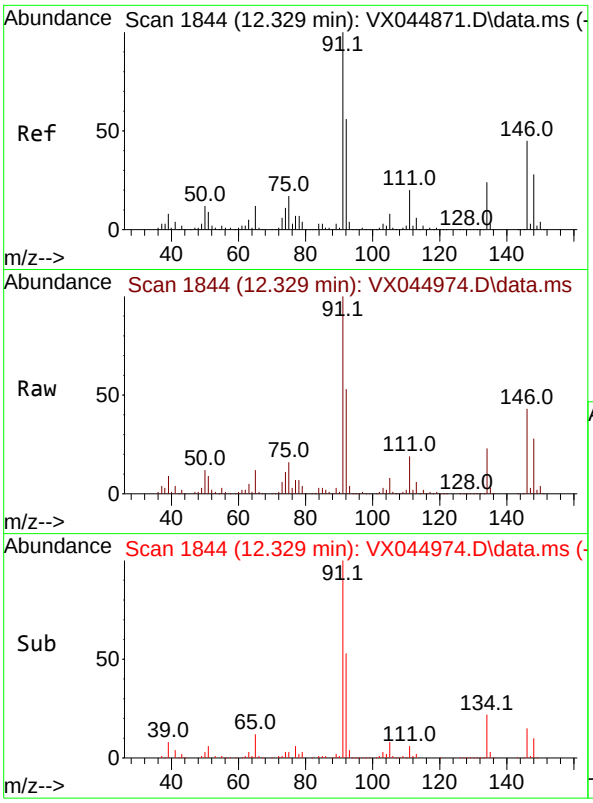


#88
1,4-Dichlorobenzene
Concen: 49.676 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:146 Resp: 128451

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.4	61.3
148	63.8	32.0	96.0

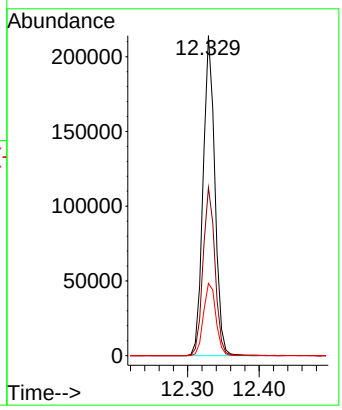




#89
n-Butylbenzene
Concen: 55.263 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 91 Resp: 24517

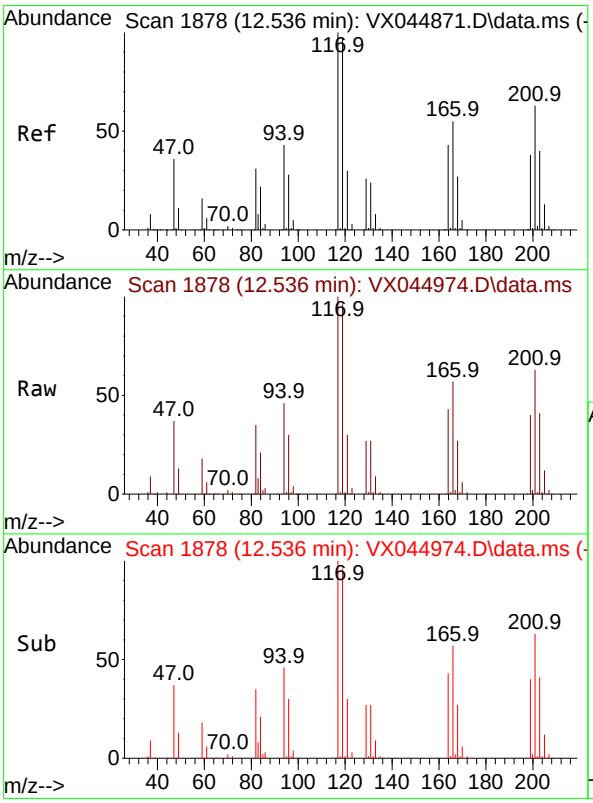
Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.2	81.6
134	24.0	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

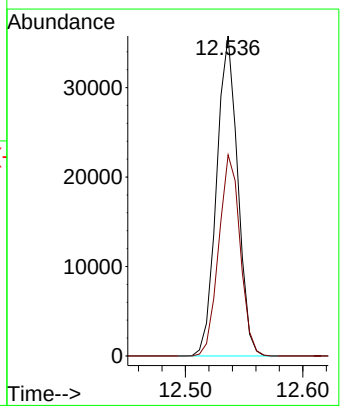
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

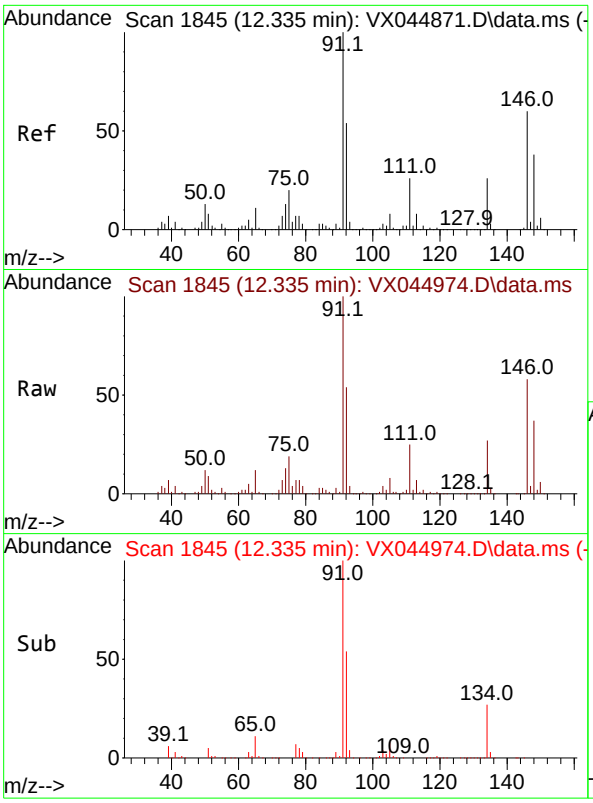


#90
Hexachloroethane
Concen: 47.620 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:117 Resp: 44714

Ion	Ratio	Lower	Upper
117	100		
201	63.7	32.5	97.5

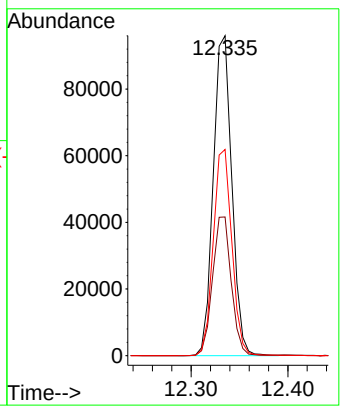




#91
1,2-Dichlorobenzene
Concen: 50.877 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:146 Resp: 12787

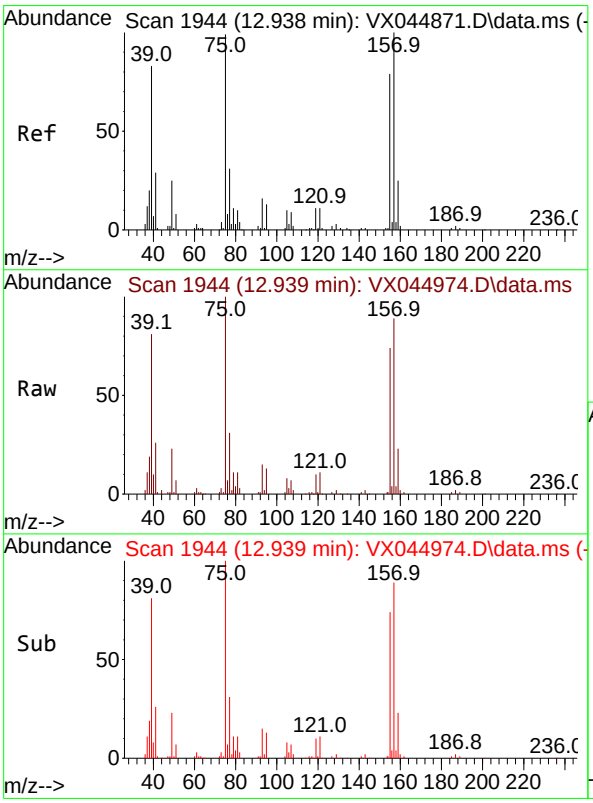
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.8	65.4
148	64.8	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

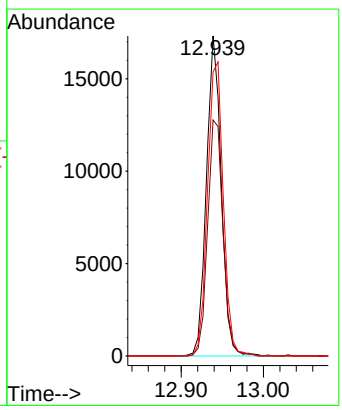
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

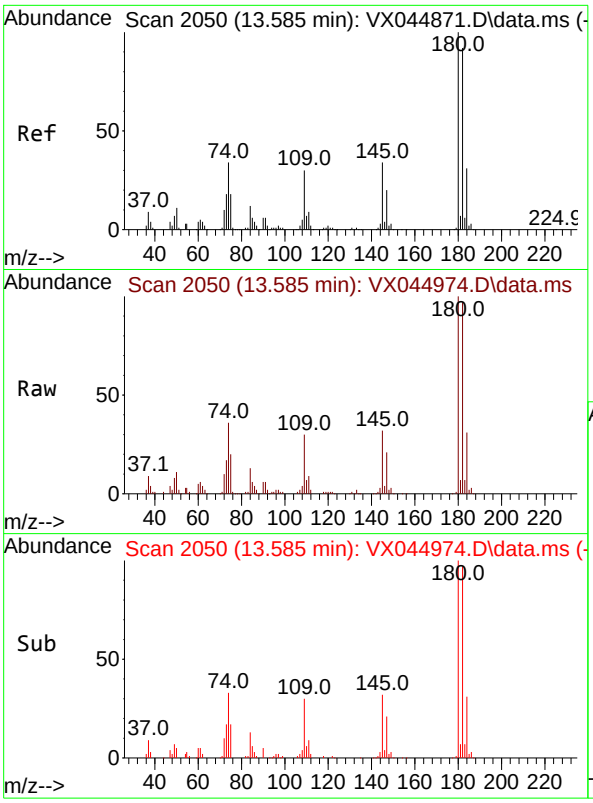


#92
1,2-Dibromo-3-Chloropropane
Concen: 56.476 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 21727

Ion	Ratio	Lower	Upper
75	100		
155	76.7	40.5	121.4
157	97.9	51.4	154.3

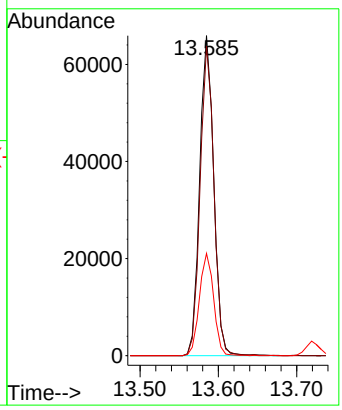




#93
1,2,4-Trichlorobenzene
Concen: 53.901 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:180 Resp: 8198

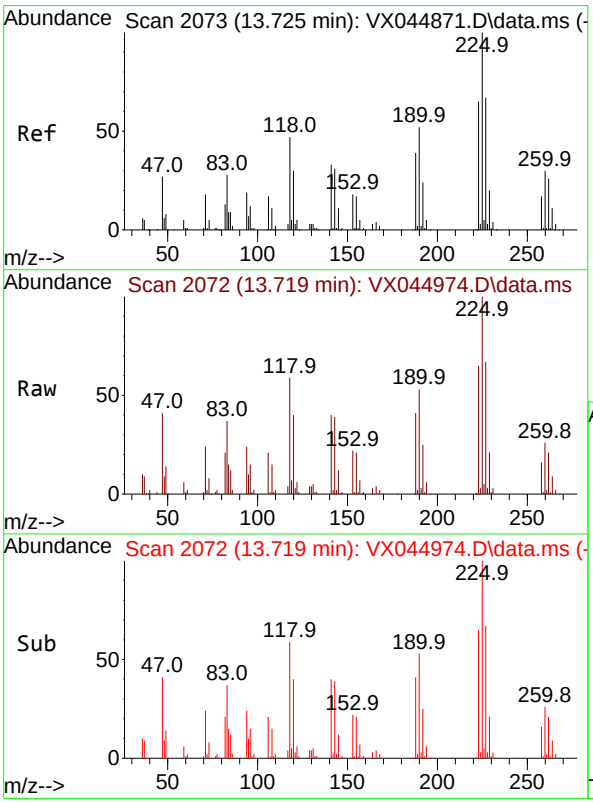
Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.8
145	32.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

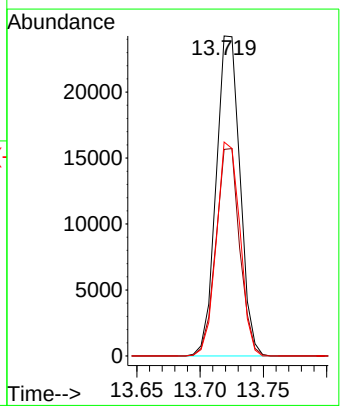
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

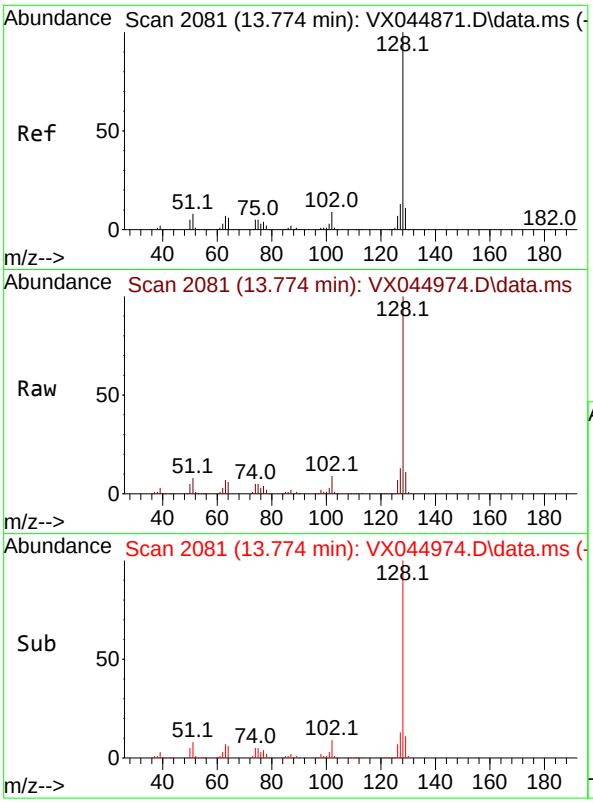


#94
Hexachlorobutadiene
Concen: 52.471 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:225 Resp: 31681

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.4	94.2
227	66.0	32.3	96.8

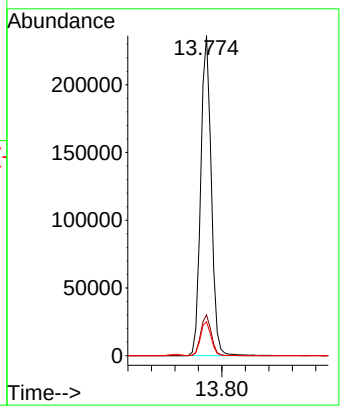




#95
Naphthalene
Concen: 53.406 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:128 Resp: 29362

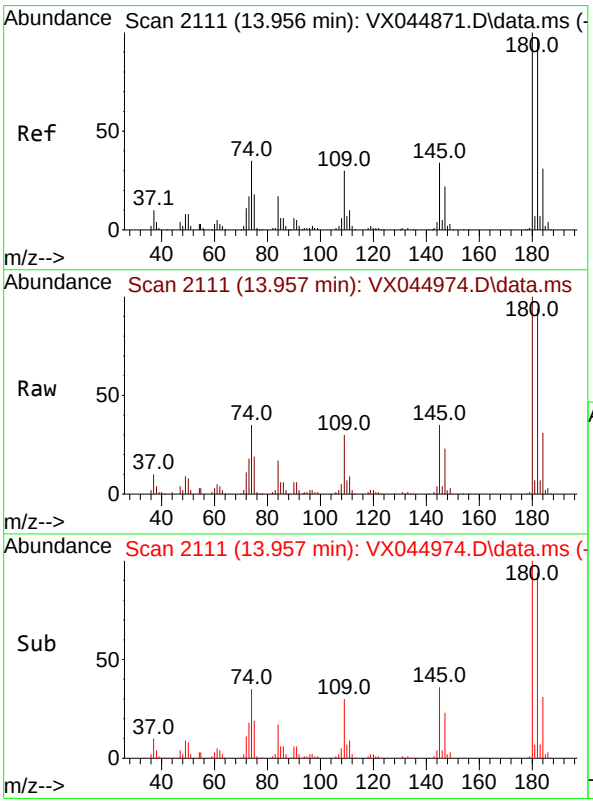
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.7	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

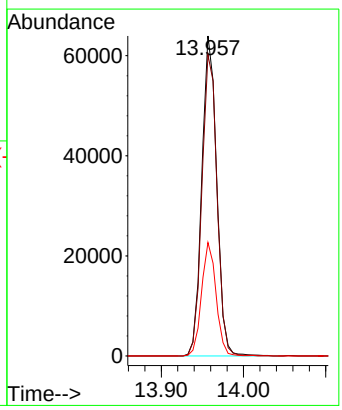
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.463 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:180 Resp: 80402

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.9	143.6
145	34.6	17.1	51.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	74	0.00
2	T	Dichlorodifluoromethane	0.701	0.706	-0.7	74	0.00
3	P	Chloromethane	0.854	0.843	1.3	74	0.00
4	C	Vinyl Chloride	0.827	0.791	4.4#	72	0.00
5	T	Bromomethane	0.247	0.344	-39.3#	102	0.00
6	T	Chloroethane	0.307	0.461	-50.2#	100	0.01
7	T	Trichlorofluoromethane	1.046	1.106	-5.7	79	0.00
8	T	Diethyl Ether	0.379	0.404	-6.6	79	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.617	2.4	73	0.00
10	T	Methyl Iodide	0.819	0.868	-6.0	76	0.00
11	T	Tert butyl alcohol	0.136	0.173	-27.2#	94	-0.02
12	CM	1,1-Dichloroethene	0.644	0.650	-0.9#	76	0.00
13	T	Acrolein	0.140	0.155	-10.7	81	0.00
14	T	Allyl chloride	1.165	1.226	-5.2	78	0.00
15	T	Acrylonitrile	0.363	0.421	-16.0	82	0.00
16	T	Acetone	0.294	0.359	-22.1	90	0.00
17	T	Carbon Disulfide	1.767	1.674	5.3	70	0.00
18	T	Methyl Acetate	0.928	1.085	-16.9	85	0.00
19	T	Methyl tert-butyl Ether	2.050	2.224	-8.5	80	0.00
20	T	Methylene Chloride	0.721	0.748	-3.7	78	0.00
21	T	trans-1,2-Dichloroethene	0.634	0.651	-2.7	75	0.00
22	T	Diisopropyl ether	2.203	2.433	-10.4	80	0.00
23	T	Vinyl Acetate	1.796	2.035	-13.3	81	0.00
24	P	1,1-Dichloroethane	1.233	1.321	-7.1	79	0.00
25	T	2-Butanone	0.478	0.578	-20.9	84	0.00
26	T	2,2-Dichloropropane	0.978	0.902	7.8	70	0.00
27	T	cis-1,2-Dichloroethene	0.762	0.803	-5.4	78	0.00
28	T	Bromochloromethane	0.593	0.552	6.9	70	0.00
29	T	Tetrahydrofuran	0.317	0.378	-19.2	85	0.00
30	C	Chloroform	1.196	1.296	-8.4#	82	0.00
31	T	Cyclohexane	1.137	1.103	3.0	73	0.00
32	T	1,1,1-Trichloroethane	1.014	1.079	-6.4	79	0.00
33	S	1,2-Dichloroethane-d4	0.732	0.698	4.6	71	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	73	0.00
35	S	Dibromofluoromethane	0.325	0.301	7.4	69	0.00
36	T	1,1-Dichloropropene	0.469	0.483	-3.0	77	0.00
37	T	Ethyl Acetate	0.522	0.594	-13.8	83	0.00
38	T	Carbon Tetrachloride	0.460	0.487	-5.9	79	0.00
39	T	Methylcyclohexane	0.606	0.598	1.3	71	0.00
40	TM	Benzene	1.465	1.543	-5.3	77	0.00
41	T	Methacrylonitrile	0.279	0.349	-25.1#	85	0.00
42	TM	1,2-Dichloroethane	0.467	0.534	-14.3	83	0.00
43	T	Isopropyl Acetate	0.842	0.973	-15.6	82	0.00
44	TM	Trichloroethene	0.335	0.359	-7.2	79	0.00
45	C	1,2-Dichloropropane	0.364	0.398	-9.3#	80	0.00
46	T	Dibromomethane	0.253	0.283	-11.9	81	0.00
47	T	Bromodichloromethane	0.489	0.560	-14.5	82	0.00
48	T	Methyl methacrylate	0.397	0.479	-20.7	83	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.011	-22.2	89	0.00
50	S	Toluene-d8	1.229	1.100	10.5	65	0.00
51	T	4-Methyl-2-Pentanone	0.512	0.633	-23.6	84	0.00
52	CM	Toluene	0.872	0.928	-6.4#	76	0.00
53	T	t-1,3-Dichloropropene	0.495	0.551	-11.3	79	0.00
54	T	cis-1,3-Dichloropropene	0.552	0.604	-9.4	77	0.00
55	T	1,1,2-Trichloroethane	0.335	0.374	-11.6	80	0.00
56	T	Ethyl methacrylate	0.542	0.619	-14.2	79	0.00
57	T	1,3-Dichloropropane	0.587	0.647	-10.2	78	0.00
58	T	2-Chloroethyl Vinyl ether	0.266	0.288	-8.3	73	0.00
59	T	2-Hexanone	0.369	0.479	-29.8#	87	0.00
60	T	Dibromochloromethane	0.359	0.410	-14.2	81	0.00
61	T	1,2-Dibromoethane	0.340	0.382	-12.4	80	0.00
62	S	4-Bromofluorobenzene	0.414	0.407	1.7	69	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	75	0.00
64	T	Tetrachloroethene	0.315	0.320	-1.6	77	0.00
65	PM	Chlorobenzene	1.074	1.141	-6.2	78	0.00
66	T	1,1,1,2-Tetrachloroethane	0.346	0.376	-8.7	80	0.00
67	C	Ethyl Benzene	1.895	2.011	-6.1#	78	0.00
68	T	m/p-Xylenes	0.699	0.741	-6.0	77	0.00
69	T	o-Xylene	0.701	0.735	-4.9	78	0.00
70	T	Styrene	1.130	1.247	-10.4	78	0.00
71	P	Bromoform	0.258	0.302	-17.1	81	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00
73	T	Isopropylbenzene	4.026	3.800	5.6	77	0.00
74	T	N-amyl acetate	1.822	1.942	-6.6	84	0.00
75	P	1,1,2,2-Tetrachloroethane	1.383	1.364	1.4	82	0.00
76	T	1,2,3-Trichloropropane	1.109	1.149	-3.6	85	0.00
77	T	Bromobenzene	0.913	0.907	0.7	82	0.00
78	T	n-propylbenzene	4.647	4.561	1.9	79	0.00
79	T	2-Chlorotoluene	2.856	2.729	4.4	79	0.00
80	T	1,3,5-Trimethylbenzene	3.267	3.167	3.1	78	0.00
81	T	trans-1,4-Dichloro-2-butene	0.431	0.389	9.7	73	0.00
82	T	4-Chlorotoluene	3.160	3.107	1.7	80	0.00
83	T	tert-Butylbenzene	3.305	3.218	2.6	80	0.00
84	T	1,2,4-Trimethylbenzene	3.225	3.227	-0.1	79	0.00
85	T	sec-Butylbenzene	4.093	4.055	0.9	80	0.00
86	T	p-Isopropyltoluene	3.291	3.340	-1.5	81	0.00
87	T	1,3-Dichlorobenzene	1.678	1.681	-0.2	82	0.00
88	T	1,4-Dichlorobenzene	1.697	1.686	0.6	82	0.00
89	T	n-Butylbenzene	2.912	3.218	-10.5	85	0.00
90	T	Hexachloroethane	0.616	0.587	4.7	79	0.00
91	T	1,2-Dichlorobenzene	1.650	1.679	-1.8	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.252	0.285	-13.1	91	0.00
93	T	1,2,4-Trichlorobenzene	0.998	1.076	-7.8	87	0.00
94	T	Hexachlorobutadiene	0.396	0.416	-5.1	89	0.00
95	T	Naphthalene	3.608	3.854	-6.8	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.006	1.055	-4.9	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	74	0.00
2	T	Dichlorodifluoromethane	50.000	50.338	-0.7	74	0.00
3	P	Chloromethane	50.000	49.377	1.2	74	0.00
4	C	Vinyl Chloride	50.000	47.840	4.3#	72	0.00
5	T	Bromomethane	50.000	69.475	-38.9#	102	0.00
6	T	Chloroethane	50.000	83.535	-67.1#	100	0.01
7	T	Trichlorofluoromethane	50.000	52.899	-5.8	79	0.00
8	T	Diethyl Ether	50.000	53.242	-6.5	79	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.807	2.4	73	0.00
10	T	Methyl Iodide	50.000	52.978	-6.0	76	0.00
11	T	Tert butyl alcohol	250.000	318.831	-27.5#	94	-0.02
12	CM	1,1-Dichloroethene	50.000	50.395	-0.8#	76	0.00
13	T	Acrolein	250.000	277.291	-10.9	81	0.00
14	T	Allyl chloride	50.000	52.634	-5.3	78	0.00
15	T	Acrylonitrile	250.000	290.127	-16.1	82	0.00
16	T	Acetone	250.000	305.420	-22.2	90	0.00
17	T	Carbon Disulfide	50.000	47.360	5.3	70	0.00
18	T	Methyl Acetate	50.000	58.441	-16.9	85	0.00
19	T	Methyl tert-butyl Ether	50.000	54.234	-8.5	80	0.00
20	T	Methylene Chloride	50.000	51.883	-3.8	78	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.325	-2.7	75	0.00
22	T	Diisopropyl ether	50.000	55.202	-10.4	80	0.00
23	T	Vinyl Acetate	250.000	283.261	-13.3	81	0.00
24	P	1,1-Dichloroethane	50.000	53.588	-7.2	79	0.00
25	T	2-Butanone	250.000	302.246	-20.9	84	0.00
26	T	2,2-Dichloropropane	50.000	46.148	7.7	70	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.676	-5.4	78	0.00
28	T	Bromochloromethane	50.000	46.604	6.8	70	0.00
29	T	Tetrahydrofuran	250.000	297.864	-19.1	85	0.00
30	C	Chloroform	50.000	54.189	-8.4#	82	0.00
31	T	Cyclohexane	50.000	48.520	3.0	73	0.00
32	T	1,1,1-Trichloroethane	50.000	53.209	-6.4	79	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.661	4.7	71	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	73	0.00
35	S	Dibromofluoromethane	50.000	46.286	7.4	69	0.00
36	T	1,1-Dichloropropene	50.000	51.452	-2.9	77	0.00
37	T	Ethyl Acetate	50.000	56.903	-13.8	83	0.00
38	T	Carbon Tetrachloride	50.000	52.993	-6.0	79	0.00
39	T	Methylcyclohexane	50.000	49.315	1.4	71	0.00
40	TM	Benzene	50.000	52.680	-5.4	77	0.00
41	T	Methacrylonitrile	50.000	62.407	-24.8	85	0.00
42	TM	1,2-Dichloroethane	50.000	57.228	-14.5	83	0.00
43	T	Isopropyl Acetate	50.000	57.723	-15.4	82	0.00
44	TM	Trichloroethene	50.000	53.693	-7.4	79	0.00
45	C	1,2-Dichloropropane	50.000	54.668	-9.3#	80	0.00
46	T	Dibromomethane	50.000	55.940	-11.9	81	0.00
47	T	Bromodichloromethane	50.000	57.216	-14.4	82	0.00
48	T	Methyl methacrylate	50.000	60.311	-20.6	83	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1276.524	-27.7#	89	0.00
50	S	Toluene-d8	50.000	44.728	10.5	65	0.00
51	T	4-Methyl-2-Pentanone	250.000	309.071	-23.6	84	0.00
52	CM	Toluene	50.000	53.206	-6.4#	76	0.00
53	T	t-1,3-Dichloropropene	50.000	55.632	-11.3	79	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.707	-9.4	77	0.00
55	T	1,1,2-Trichloroethane	50.000	55.708	-11.4	80	0.00
56	T	Ethyl methacrylate	50.000	57.122	-14.2	79	0.00
57	T	1,3-Dichloropropane	50.000	55.110	-10.2	78	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	270.450	-8.2	73	0.00
59	T	2-Hexanone	250.000	324.260	-29.7#	87	0.00
60	T	Dibromochloromethane	50.000	57.145	-14.3	81	0.00
61	T	1,2-Dibromoethane	50.000	56.187	-12.4	80	0.00
62	S	4-Bromofluorobenzene	50.000	49.160	1.7	69	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	75	0.00
64	T	Tetrachloroethene	50.000	50.766	-1.5	77	0.00
65	PM	Chlorobenzene	50.000	53.124	-6.2	78	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.322	-8.6	80	0.00
67	C	Ethyl Benzene	50.000	53.064	-6.1#	78	0.00
68	T	m/p-Xylenes	100.000	105.988	-6.0	77	0.00
69	T	o-Xylene	50.000	52.414	-4.8	78	0.00
70	T	Styrene	50.000	55.172	-10.3	78	0.00
71	P	Bromoform	50.000	58.514	-17.0	81	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	82	0.00
73	T	Isopropylbenzene	50.000	47.192	5.6	77	0.00
74	T	N-amyl acetate	50.000	53.307	-6.6	84	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.296	1.4	82	0.00
76	T	1,2,3-Trichloropropane	50.000	51.817	-3.6	85	0.00
77	T	Bromobenzene	50.000	49.693	0.6	82	0.00
78	T	n-propylbenzene	50.000	49.081	1.8	79	0.00
79	T	2-Chlorotoluene	50.000	47.769	4.5	79	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.466	3.1	78	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.155	9.7	73	0.00
82	T	4-Chlorotoluene	50.000	49.168	1.7	80	0.00
83	T	tert-Butylbenzene	50.000	48.679	2.6	80	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.037	-0.1	79	0.00
85	T	sec-Butylbenzene	50.000	49.539	0.9	80	0.00
86	T	p-Isopropyltoluene	50.000	50.744	-1.5	81	0.00
87	T	1,3-Dichlorobenzene	50.000	50.069	-0.1	82	0.00
88	T	1,4-Dichlorobenzene	50.000	49.676	0.6	82	0.00
89	T	n-Butylbenzene	50.000	55.263	-10.5	85	0.00
90	T	Hexachloroethane	50.000	47.620	4.8	79	0.00
91	T	1,2-Dichlorobenzene	50.000	50.877	-1.8	83	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	56.476	-13.0	91	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.901	-7.8	87	0.00
94	T	Hexachlorobutadiene	50.000	52.471	-4.9	89	0.00
95	T	Naphthalene	50.000	53.406	-6.8	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.463	-4.9	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

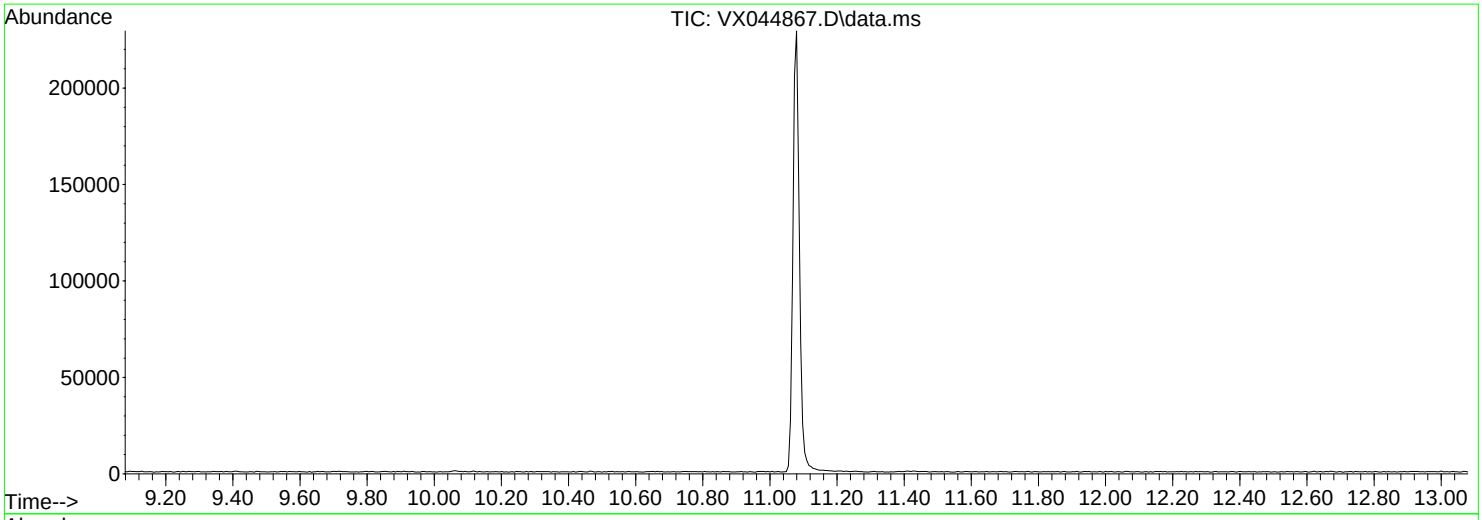
QC SAMPLE DATA

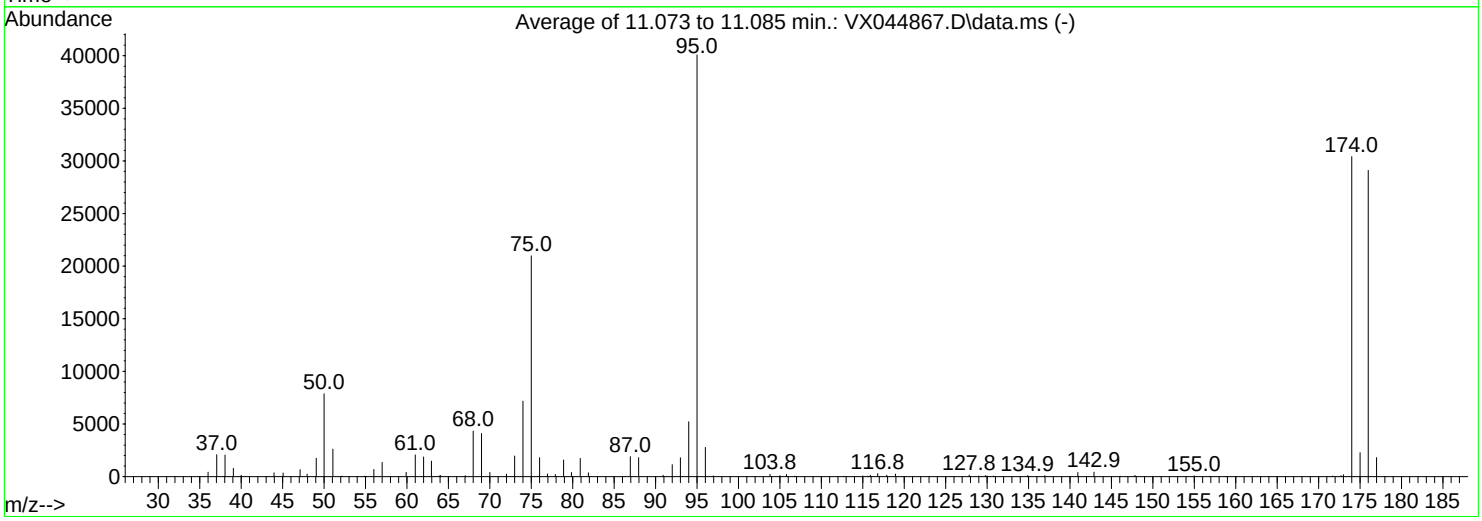
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044867.D
Acq On : 10 Feb 2025 09:35
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260
Last Update : Tue Feb 11 03:41:08 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

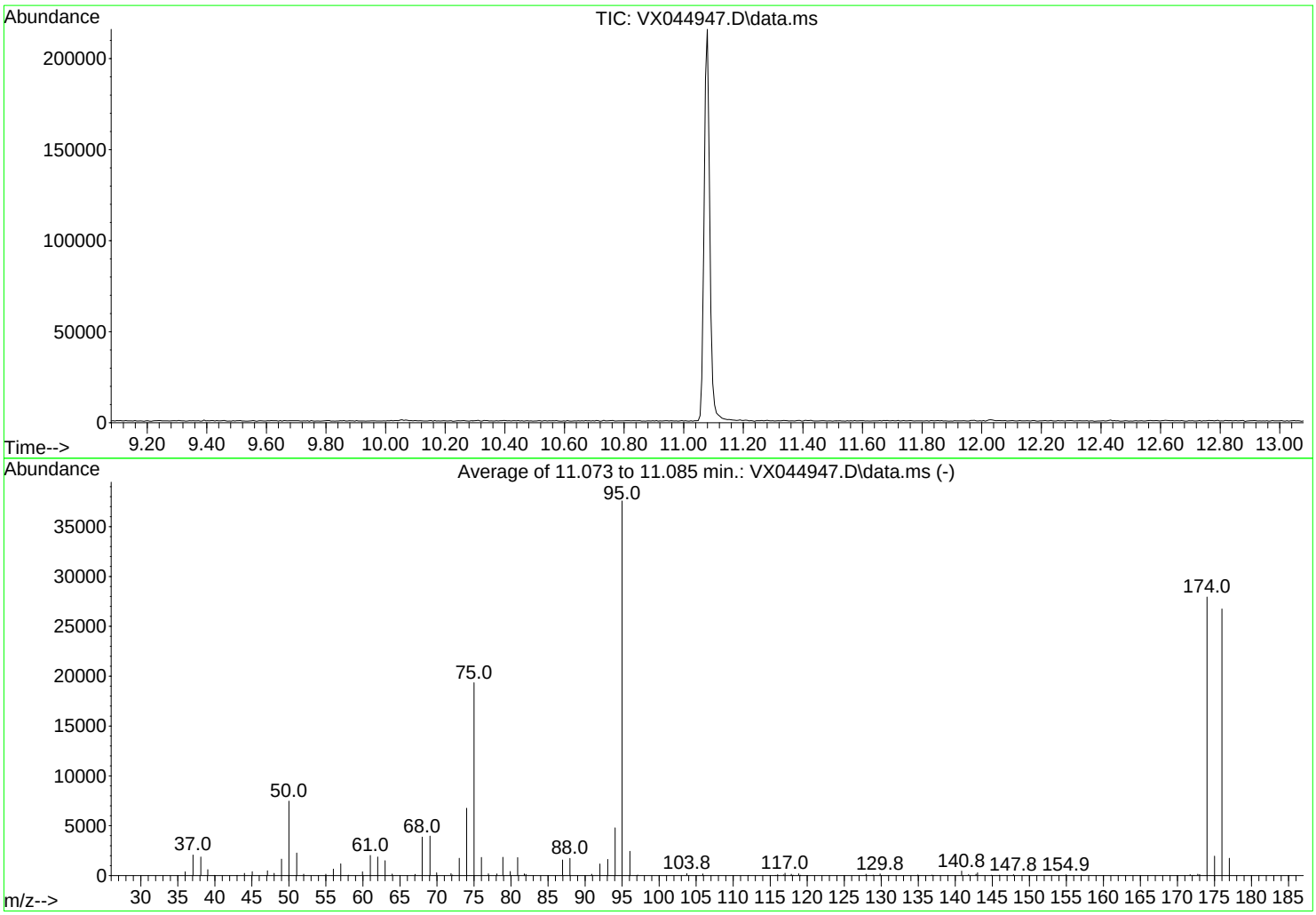
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	7876	PASS
75	95	30	60	52.3	20977	PASS
95	95	100	100	100.0	40077	PASS
96	95	5	9	6.9	2783	PASS
173	174	0.00	2	0.6	186	PASS
174	95	50	100	75.9	30400	PASS
175	174	5	9	7.5	2286	PASS
176	174	95	101	95.7	29104	PASS
177	176	5	9	6.2	1810	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044947.D
Acq On : 14 Feb 2025 09:35
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Title : SW846 8260
Last Update : Tue Feb 11 03:41:08 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	7474	PASS
75	95	30	60	51.5	19351	PASS
95	95	100	100	100.0	37579	PASS
96	95	5	9	6.5	2435	PASS
173	174	0.00	2	0.5	150	PASS
174	95	50	100	74.3	27939	PASS
175	174	5	9	7.0	1953	PASS
176	174	95	101	95.7	26739	PASS
177	176	5	9	6.5	1738	PASS

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	VX0214WBL01	SDG No.:	Q1352
Lab Sample ID:	VX0214WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044950.D	1		02/14/25 10:51	VX021425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	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
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
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.2		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	79200	5.544				
540-36-3	1,4-Difluorobenzene	161000	6.757				
3114-55-4	Chlorobenzene-d5	146000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	59200	12.018				

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044950.D
Acq On : 14 Feb 2025 10:51
Operator : JC/MD
Sample : VX0214WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBL01

Quant Time: Feb 14 22:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

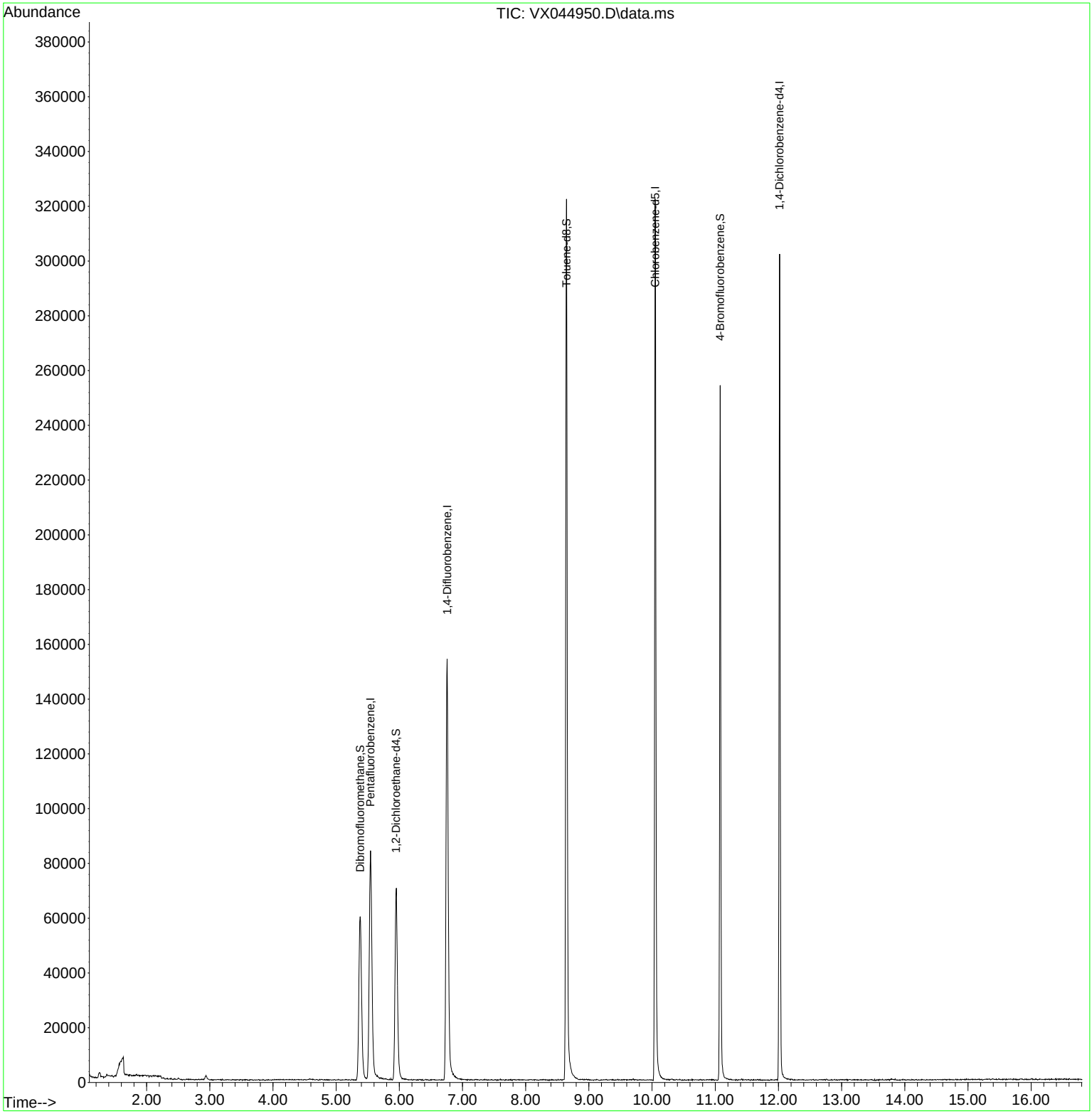
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	79162	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	161000	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	145614	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	63986	55.218	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.440%			
35) Dibromofluoromethane	5.379	113	54109	51.691	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.380%			
50) Toluene-d8	8.647	98	200707	50.706	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.420%			
62) 4-Bromofluorobenzene	11.079	95	67459	50.553	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.100%			
Target Compounds						Qvalue

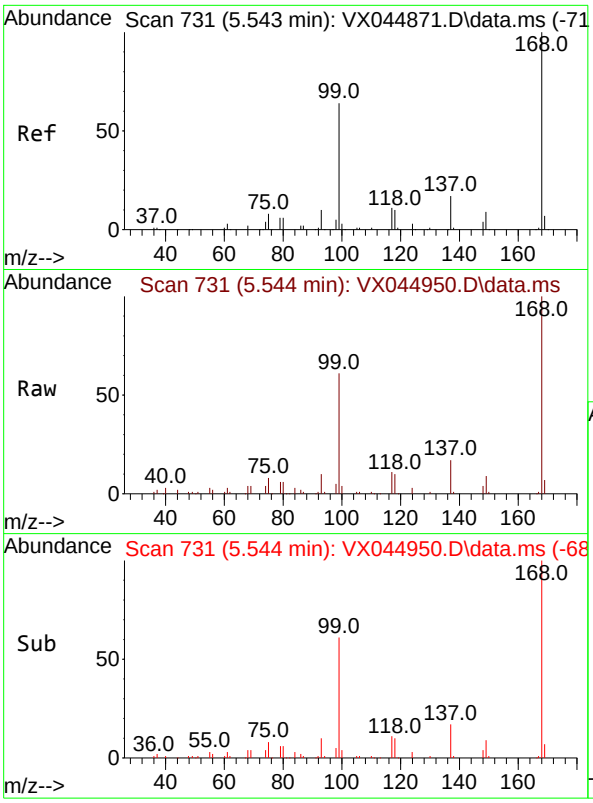
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044950.D
Acq On : 14 Feb 2025 10:51
Operator : JC/MD
Sample : VX0214WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBL01

Quant Time: Feb 14 22:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



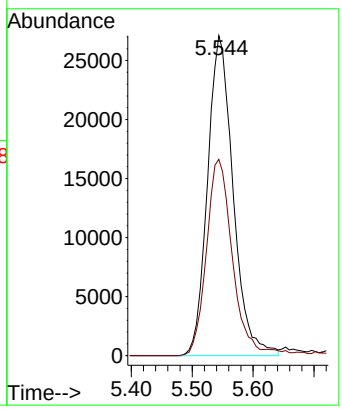


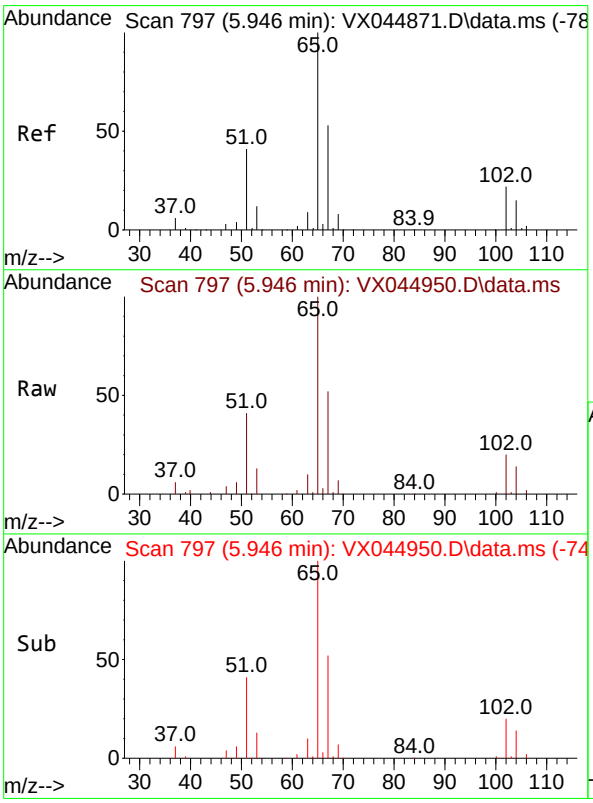
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044950.D
Acq: 14 Feb 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBL01

Tgt Ion:168 Resp: 79162

Ion	Ratio	Lower	Upper
168	100		
99	61.3	51.2	76.8

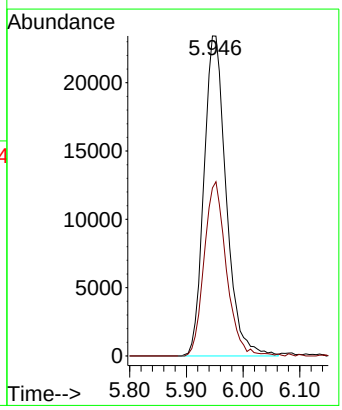


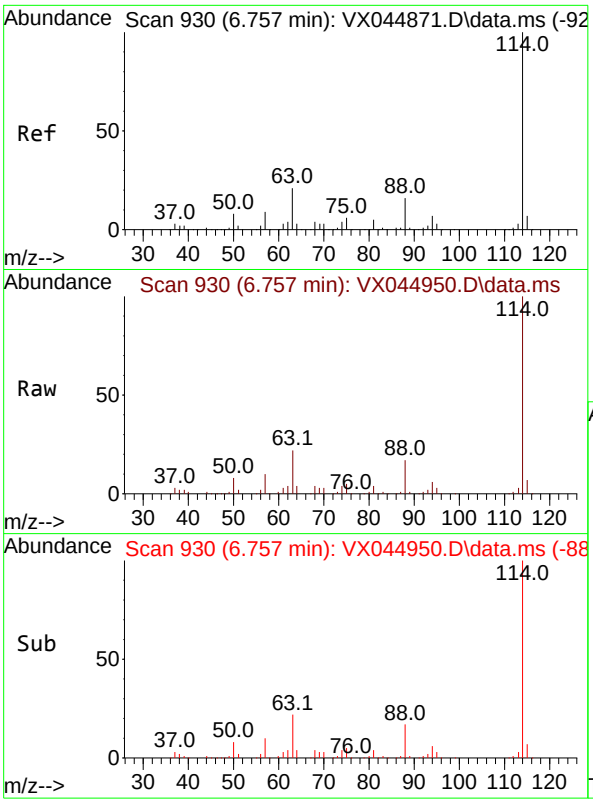


#33
1,2-Dichloroethane-d4
Concen: 55.218 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.000 min
Lab File: VX044950.D
Acq: 14 Feb 2025 10:51

Tgt Ion: 65 Resp: 63986

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	108.2



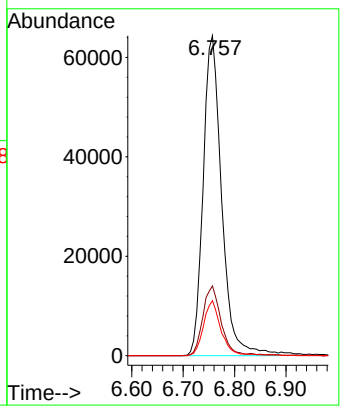


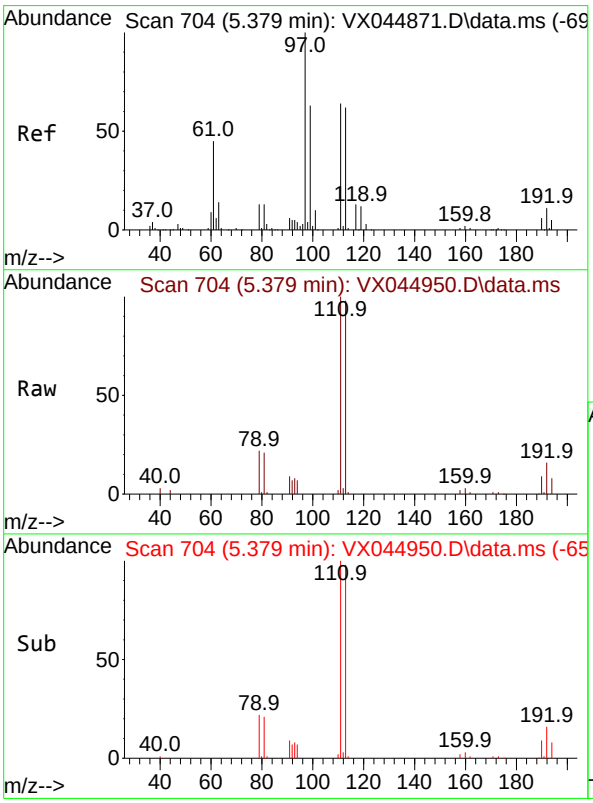
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044950.D
Acq: 14 Feb 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBL01

Tgt Ion:114 Resp: 161000

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	42.4
88	17.2	0.0	31.4

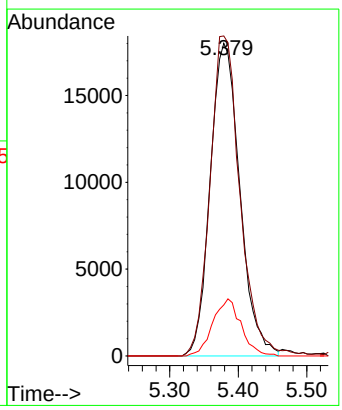


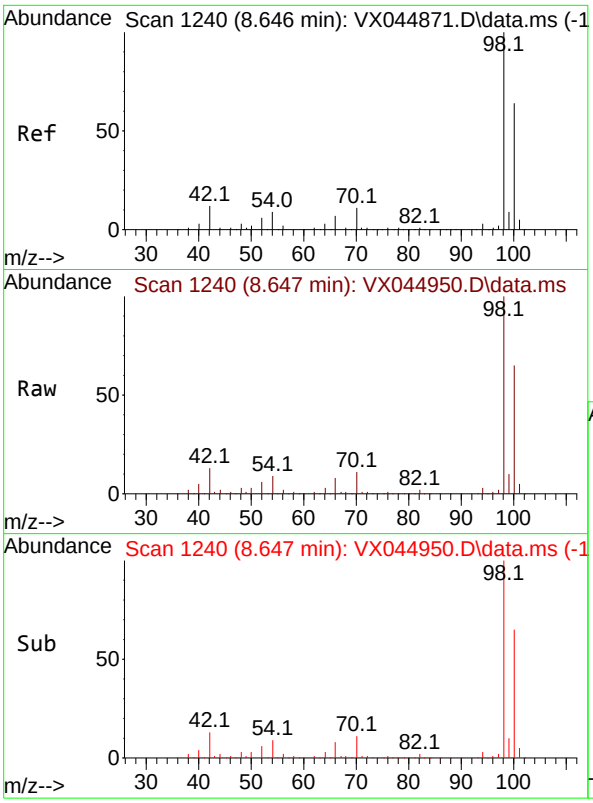


#35
Dibromofluoromethane
Concen: 51.691 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044950.D
Acq: 14 Feb 2025 10:51

Tgt Ion:113 Resp: 54109

Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.5	125.3
192	17.5	14.4	21.6



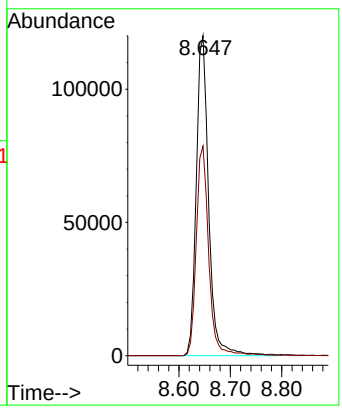


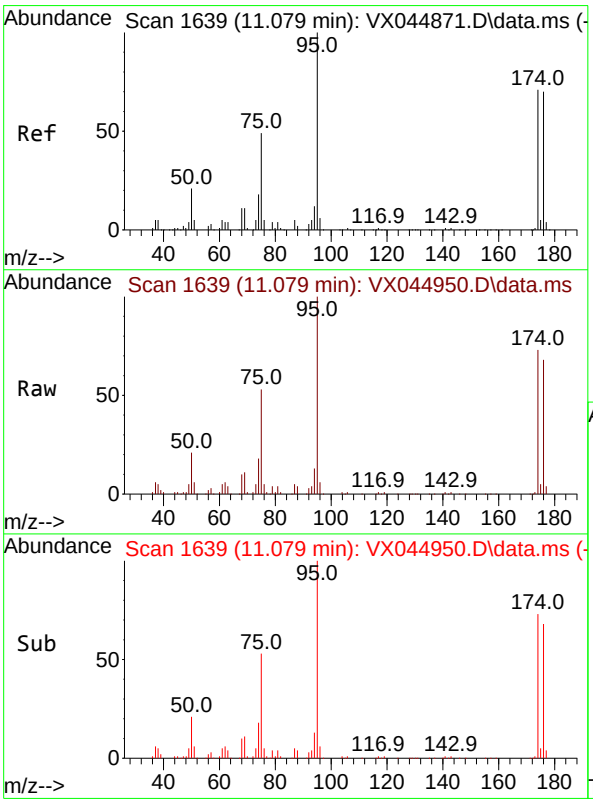
#50
Toluene-d8
Concen: 50.706 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044950.D
Acq: 14 Feb 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBL01

Tgt Ion: 98 Resp: 200707

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.7	79.1

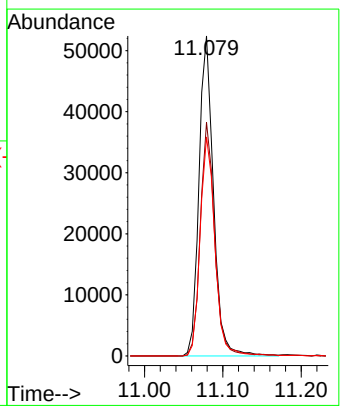


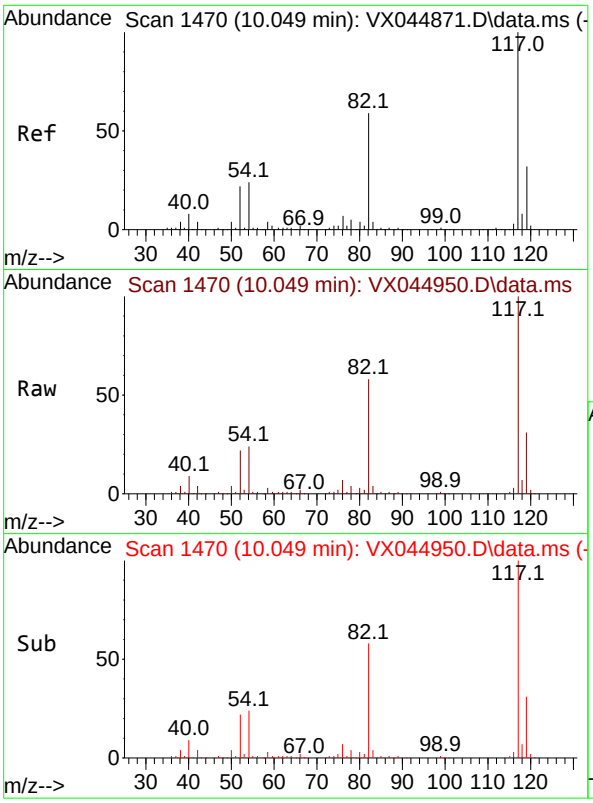


#62
4-Bromofluorobenzene
Concen: 50.553 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044950.D
Acq: 14 Feb 2025 10:51

Tgt Ion: 95 Resp: 67459

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	142.6
176	69.9	0.0	141.6



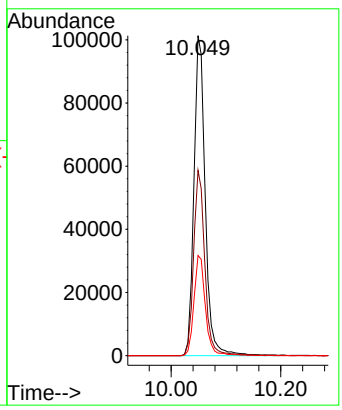


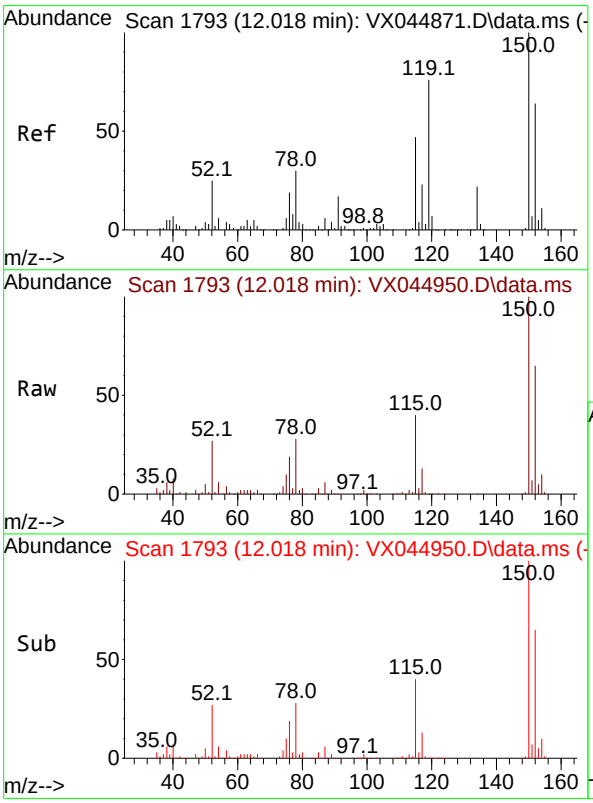
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044950.D
Acq: 14 Feb 2025 10:51

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBL01

Tgt Ion:117 Resp: 145614

Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.5	71.3
119	31.3	25.4	38.0

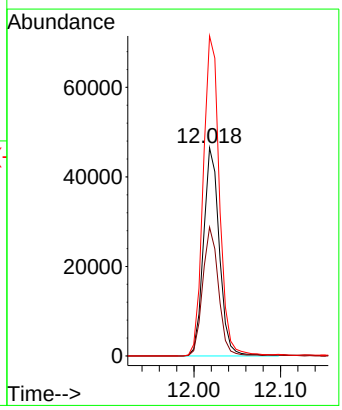




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044950.D
Acq: 14 Feb 2025 10:51

Tgt Ion:152 Resp: 59196

Ion	Ratio	Lower	Upper
152	100		
115	62.1	43.4	130.1
150	156.7	0.0	350.4



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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	VX0214WBS01	SDG No.:	Q1352
Lab Sample ID:	VX0214WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044951.D	1		02/14/25 11:14	VX021425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	18.3		0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.26	0.75	1.00	ug/L
78-93-3	2-Butanone	110		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.2		0.25	0.50	1.00	ug/L
67-66-3	Chloroform	20.6		0.26	0.50	1.00	ug/L
71-43-2	Benzene	20.0		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.32	0.75	1.00	ug/L
127-18-4	Tetrachloroethene	21.0		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.13	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.7		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.7		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	109000	5.544				
540-36-3	1,4-Difluorobenzene	196000	6.757				
3114-55-4	Chlorobenzene-d5	172000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	79800	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044951.D
Acq On : 14 Feb 2025 11:14
Operator : JC/MD
Sample : VX0214WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 14 22:11:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	109167	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	195743	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	172020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	79806	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81048	50.718	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.440%			
35) Dibromofluoromethane	5.379	113	65054	51.117	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.240%			
50) Toluene-d8	8.647	98	239351	49.736	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.480%			
62) 4-Bromofluorobenzene	11.079	95	83506	51.472	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	30493	19.916	ug/l	96
3) Chloromethane	1.300	50	35876	19.252	ug/l	98
4) Vinyl Chloride	1.374	62	32947	18.250	ug/l	99
5) Bromomethane	1.593	94	12665	23.444	ug/l	95
6) Chloroethane	1.672	64	18270	24.073	ug/l	98
7) Trichlorofluoromethane	1.880	101	46110	20.197	ug/l	96
8) Diethyl Ether	2.130	74	16287	19.671	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	27143	19.677	ug/l	98
10) Methyl Iodide	2.447	142	35949	20.109	ug/l	98
11) Tert butyl alcohol	2.971	59	29984	101.141	ug/l	98
12) 1,1-Dichloroethene	2.312	96	26636	18.930	ug/l	97
13) Acrolein	2.233	56	32589	106.546	ug/l	98
14) Allyl chloride	2.660	41	48808	19.193	ug/l	97
15) Acrylonitrile	3.062	53	83287	105.222	ug/l	100
16) Acetone	2.380	43	69215	107.742	ug/l	99
17) Carbon Disulfide	2.508	76	65690	17.025	ug/l	97
18) Methyl Acetate	2.703	43	43622	21.518	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	88083	19.675	ug/l	99
20) Methylene Chloride	2.782	84	30381	19.308	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	25933	18.726	ug/l	92
22) Diisopropyl ether	3.757	45	97720	20.312	ug/l	92
23) Vinyl Acetate	3.715	43	389140	99.216	ug/l	98
24) 1,1-Dichloroethane	3.605	63	53879	20.015	ug/l	99
25) 2-Butanone	4.550	43	111260	106.657	ug/l	96
26) 2,2-Dichloropropane	4.464	77	40129	18.798	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	32961	19.815	ug/l	98
28) Bromochloromethane	4.897	49	23212	17.943	ug/l	99
29) Tetrahydrofuran	5.001	42	72346	104.443	ug/l	99
30) Chloroform	5.086	83	53725	20.580	ug/l	98
31) Cyclohexane	5.464	56	46821	18.867	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	43492	19.641	ug/l	98
36) 1,1-Dichloropropene	5.690	75	35991	19.602	ug/l	100
37) Ethyl Acetate	4.714	43	41720	20.428	ug/l	100
38) Carbon Tetrachloride	5.672	117	36299	20.174	ug/l	96
39) Methylcyclohexane	7.372	83	46927	19.769	ug/l	98
40) Benzene	6.031	78	114429	19.958	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044951.D
Acq On : 14 Feb 2025 11:14
Operator : JC/MD
Sample : VX0214WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 14 22:11:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	23705	21.685	ug/l		100
42) 1,2-Dichloroethane	6.080	62	39785	21.773	ug/l		99
43) Isopropyl Acetate	6.336	43	67687	20.524	ug/l		98
44) Trichloroethene	7.123	130	25978	19.823	ug/l		99
45) 1,2-Dichloropropane	7.427	63	28734	20.145	ug/l		96
46) Dibromomethane	7.580	93	20163	20.383	ug/l		98
47) Bromodichloromethane	7.818	83	40024	20.896	ug/l		97
48) Methyl methacrylate	7.690	41	32249	20.739	ug/l		98
49) 1,4-Dioxane	7.659	88	14784	443.128	ug/l		97
51) 4-Methyl-2-Pentanone	8.567	43	225966	112.703	ug/l		97
52) Toluene	8.714	92	69748	20.427	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	37169	19.176	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	43416	20.090	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	27886	21.245	ug/l		98
56) Ethyl methacrylate	9.116	69	42444	20.021	ug/l		98
57) 1,3-Dichloropropane	9.305	76	47815	20.820	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	107373	103.151	ug/l		100
59) 2-Hexanone	9.427	43	166655	115.365	ug/l		97
60) Dibromochloromethane	9.518	129	29087	20.721	ug/l		98
61) 1,2-Dibromoethane	9.604	107	28155	21.163	ug/l		97
64) Tetrachloroethene	9.268	164	22728	20.951	ug/l		96
65) Chlorobenzene	10.079	112	74635	20.200	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	23206	19.514	ug/l		95
67) Ethyl Benzene	10.189	91	131698	20.199	ug/l		99
68) m/p-Xylenes	10.299	106	98883	41.113	ug/l		100
69) o-Xylene	10.640	106	48694	20.177	ug/l		100
70) Styrene	10.652	104	81730	21.020	ug/l		100
71) Bromoform	10.799	173	18416	20.750	ug/l	#	100
73) Isopropylbenzene	10.957	105	124187	19.326	ug/l		99
74) N-amyl acetate	10.841	43	57217	19.677	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	44116	19.979	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	36103m	20.404	ug/l		
77) Bromobenzene	11.195	156	29893	20.519	ug/l		93
78) n-propylbenzene	11.299	91	144703	19.510	ug/l		100
79) 2-Chlorotoluene	11.360	91	88678	19.454	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	104223	19.987	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	11634	16.914	ug/l		91
82) 4-Chlorotoluene	11.451	91	99533	19.736	ug/l		99
83) tert-Butylbenzene	11.713	119	104653	19.838	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	104819	20.366	ug/l		99
85) sec-Butylbenzene	11.890	105	131498	20.130	ug/l		98
86) p-Isopropyltoluene	12.006	119	106908	20.351	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	52788	19.704	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	53421	19.722	ug/l		98
89) n-Butylbenzene	12.329	91	94562	20.347	ug/l		99
90) Hexachloroethane	12.536	117	18131	18.433	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	54507	20.701	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8250	20.471	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	31211	19.589	ug/l		98
94) Hexachlorobutadiene	13.719	225	12661	20.018	ug/l		99
95) Naphthalene	13.774	128	114238	19.835	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	32268	20.099	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044951.D
Acq On : 14 Feb 2025 11:14
Operator : JC/MD
Sample : VX0214WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 14 22:11:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

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

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

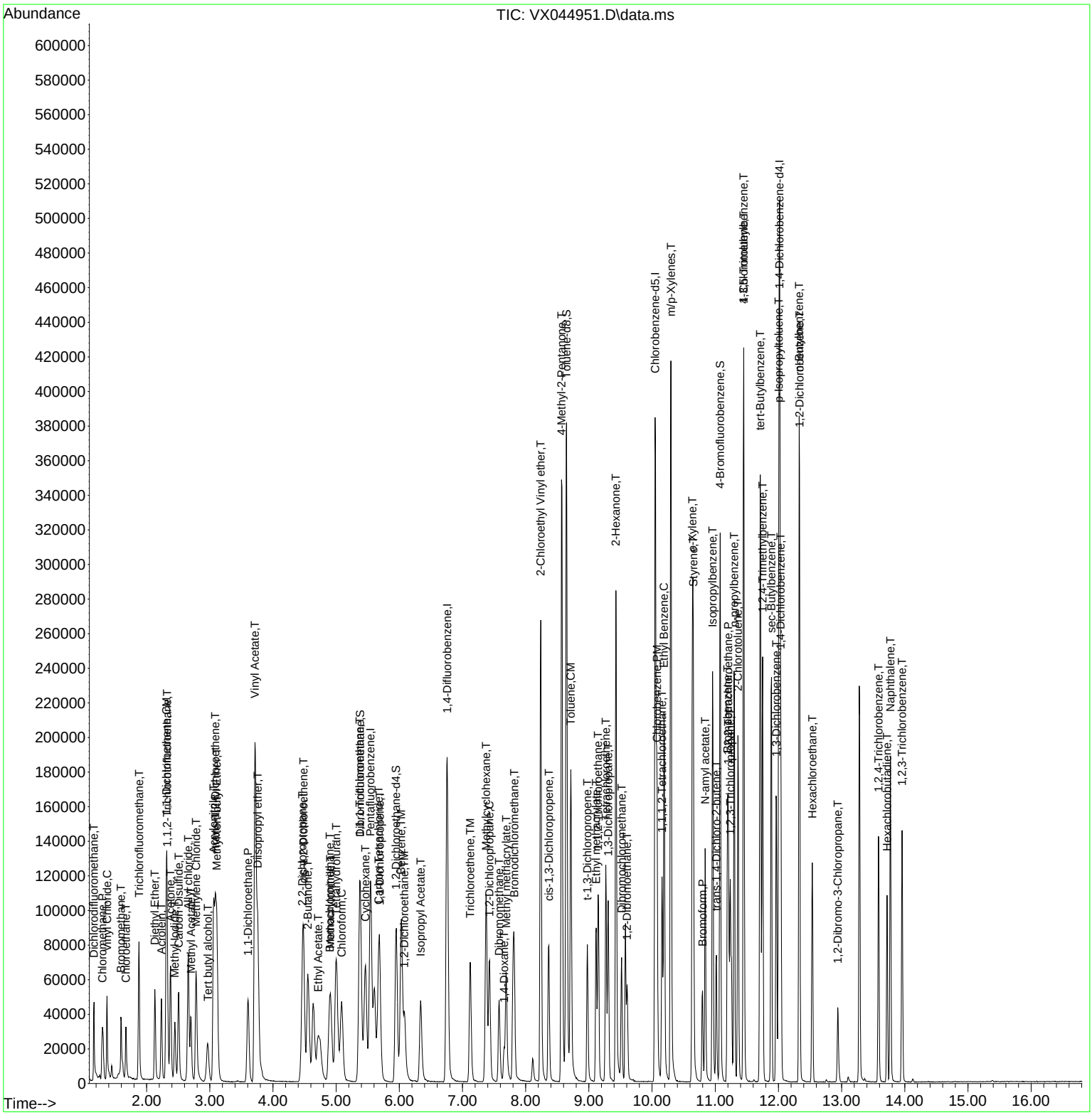
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044951.D
Acq On : 14 Feb 2025 11:14
Operator : JC/MD
Sample : VX0214WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

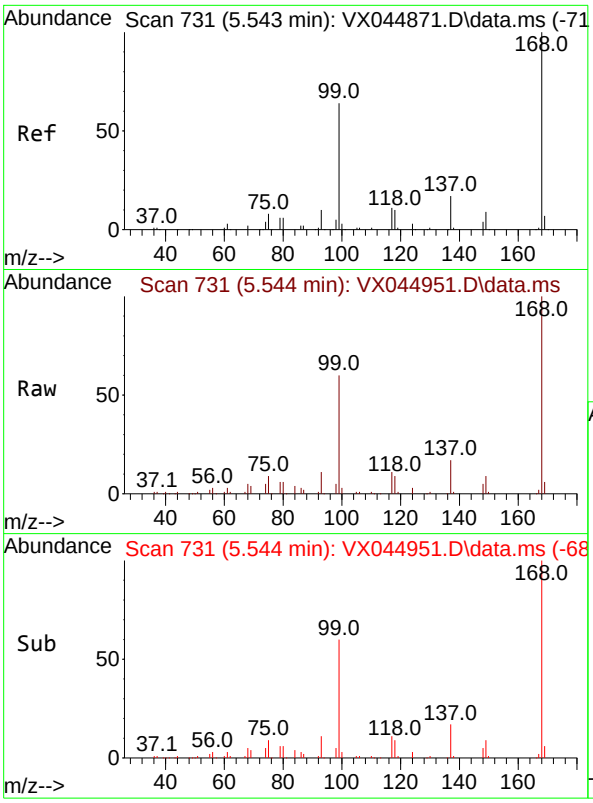
Quant Time: Feb 14 22:11:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

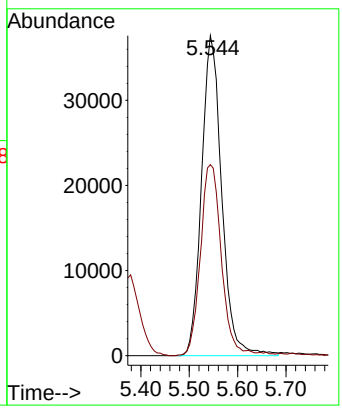




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:168 Resp: 10916

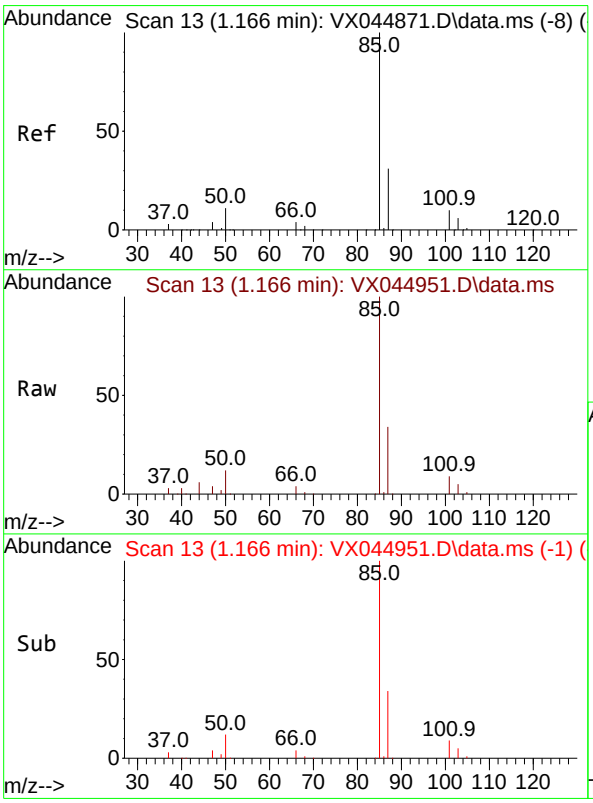
Ion	Ratio	Lower	Upper
168	100		
99	59.5	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

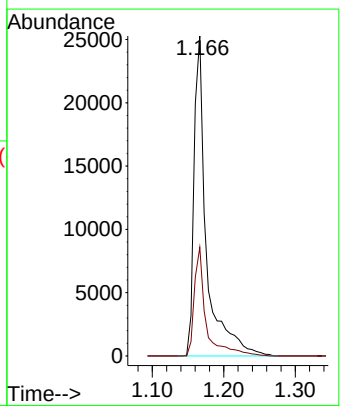
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

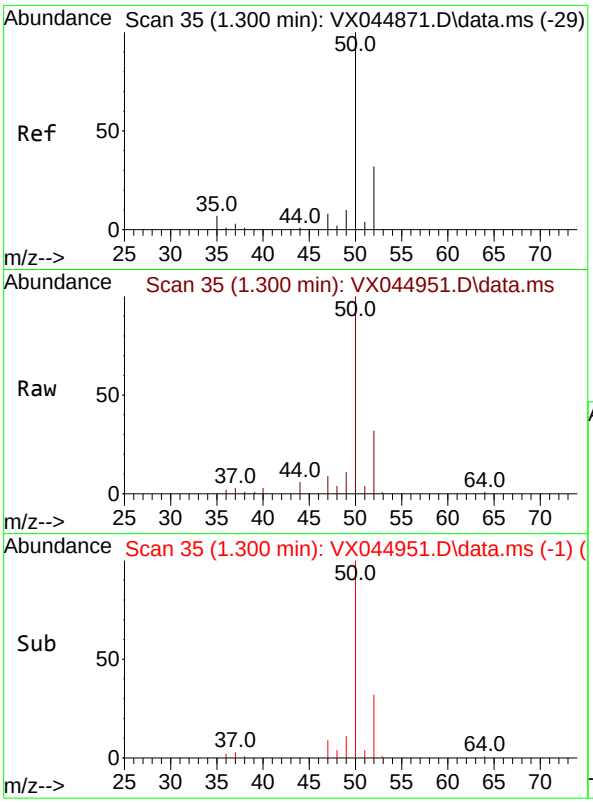


#2
Dichlorodifluoromethane
Concen: 19.916 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 85 Resp: 30493

Ion	Ratio	Lower	Upper
85	100		
87	33.9	15.8	47.3

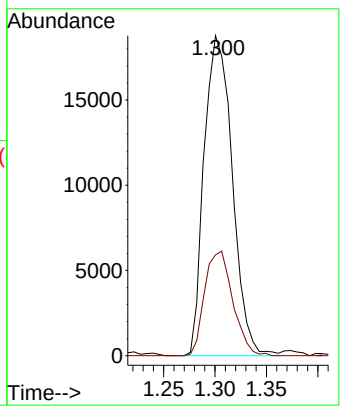




#3
Chloromethane
Concen: 19.252 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 50 Resp: 3587

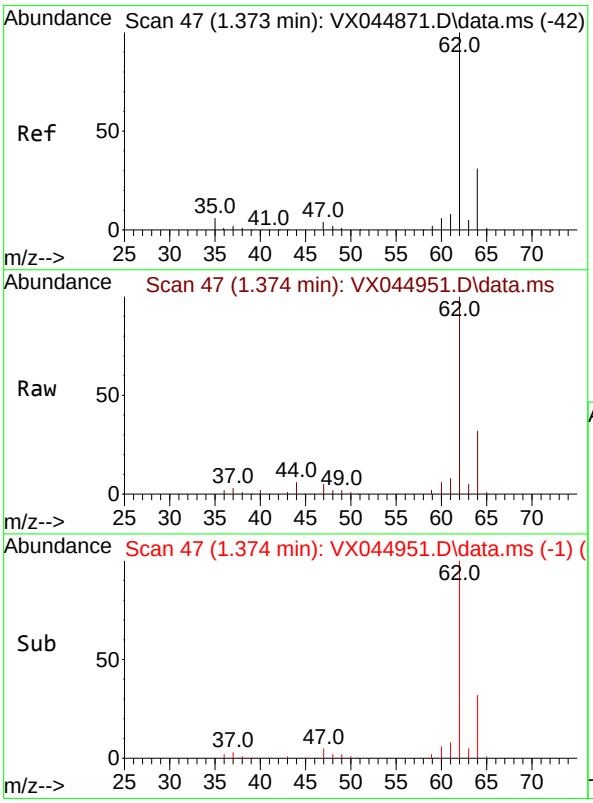
Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

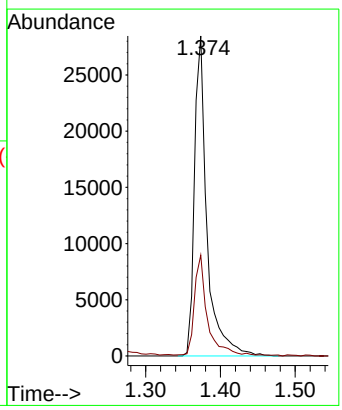
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

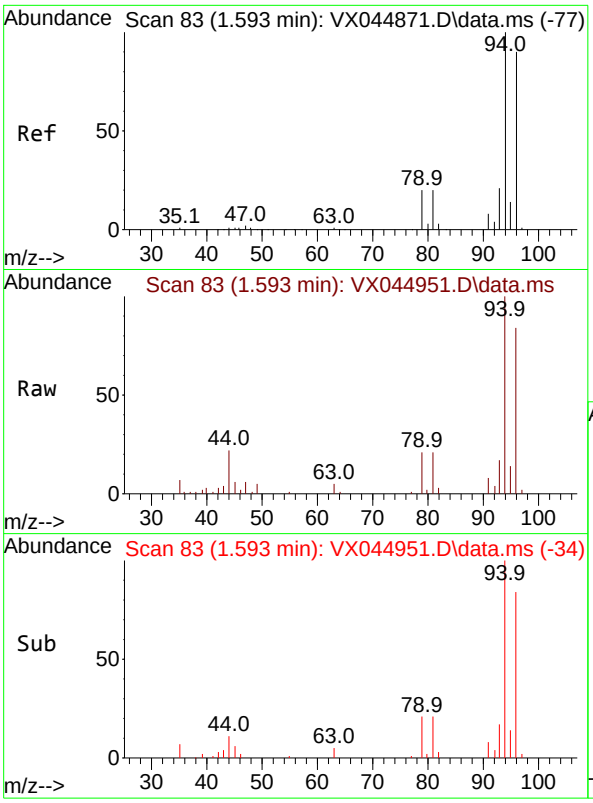


#4
Vinyl Chloride
Concen: 18.250 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 62 Resp: 32947

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.4	38.0

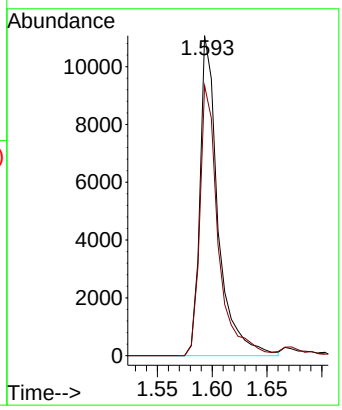




#5
Bromomethane
Concen: 23.444 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 94 Resp: 1266

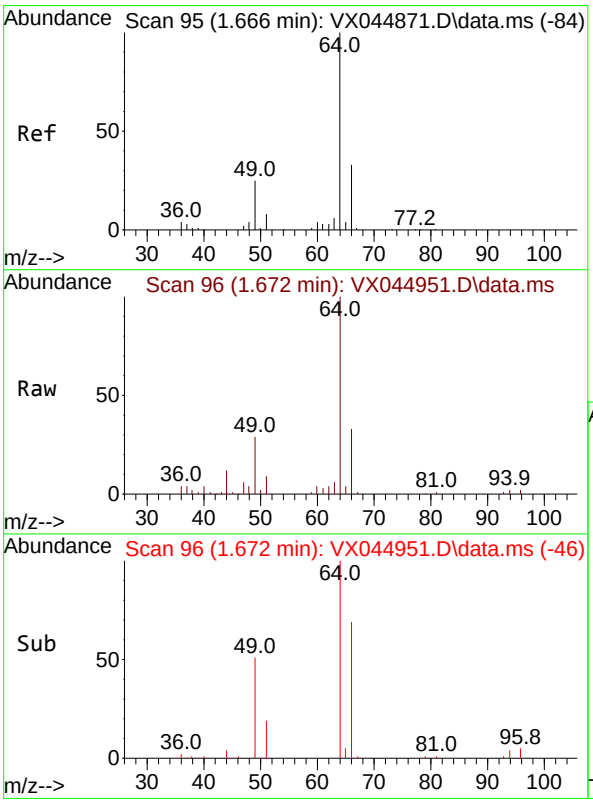
Ion	Ratio	Lower	Upper
94	100		
96	84.3	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

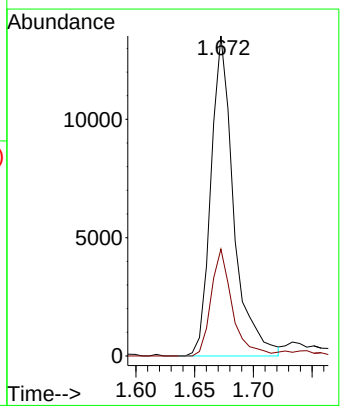
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

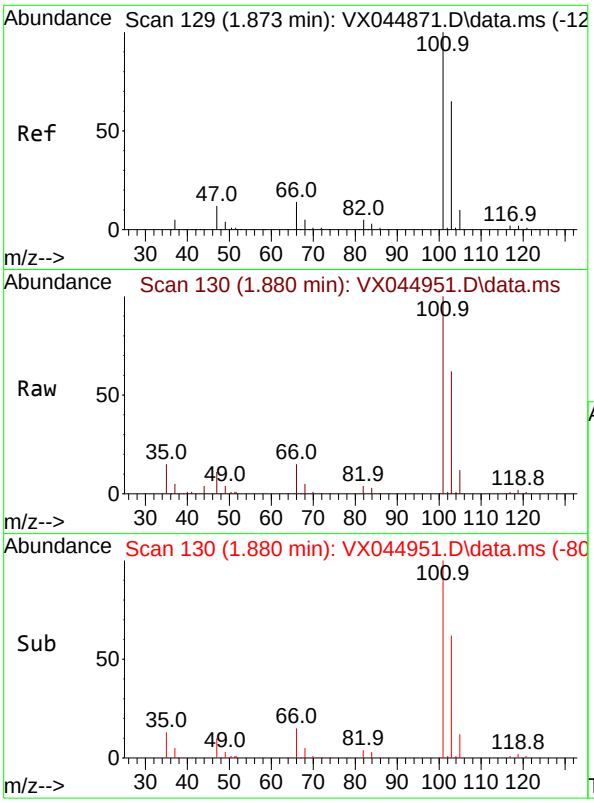


#6
Chloroethane
Concen: 24.073 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 64 Resp: 18270

Ion	Ratio	Lower	Upper
64	100		
66	33.4	25.9	38.9

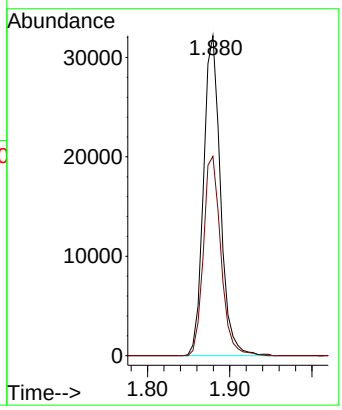




#7
Trichlorofluoromethane
Concen: 20.197 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:101 Resp: 4611

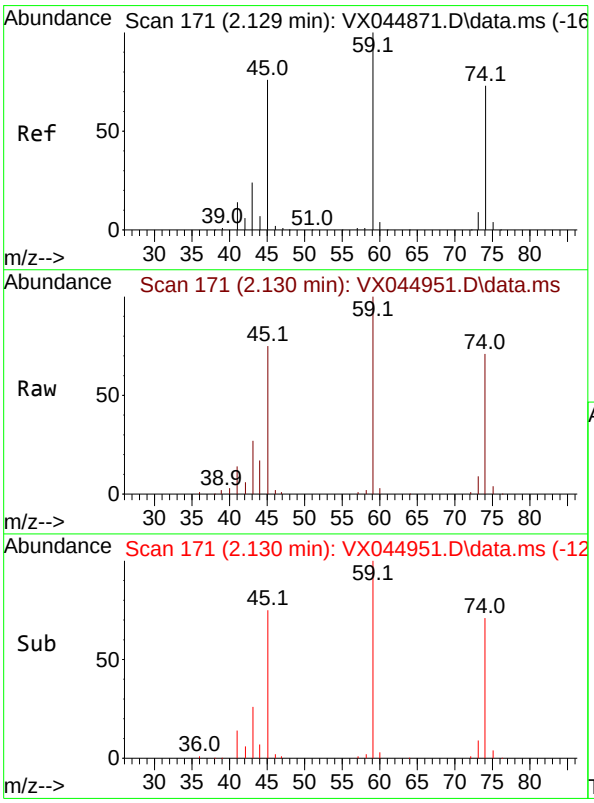
Ion	Ratio	Lower	Upper
101	100		
103	62.3	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

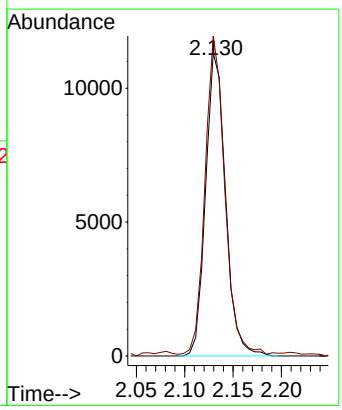
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

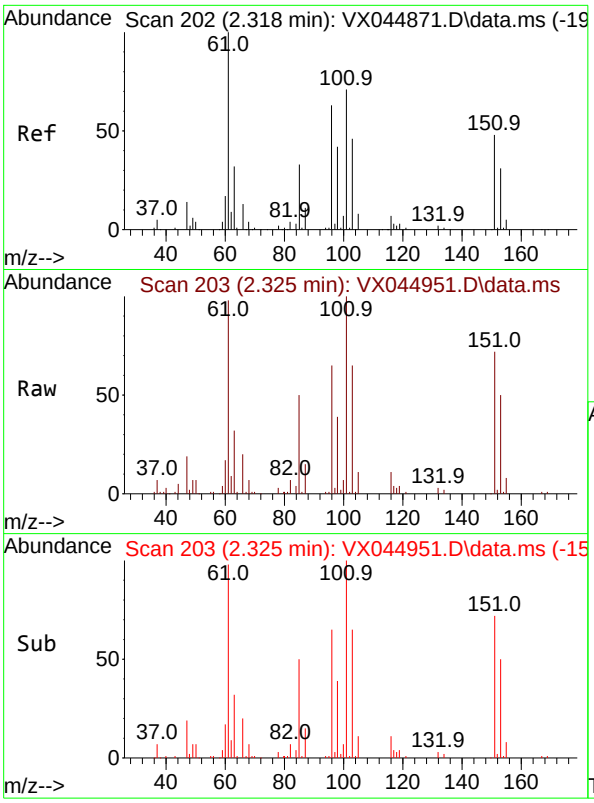


#8
Diethyl Ether
Concen: 19.671 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 74 Resp: 16287

Ion	Ratio	Lower	Upper
74	100		
45	103.4	51.1	153.4

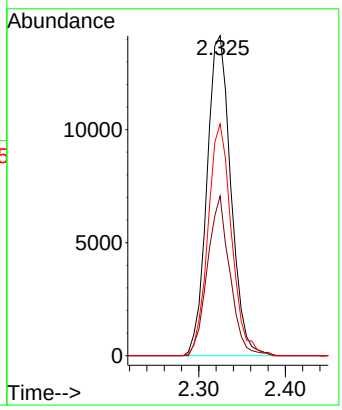




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.677 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:101 Resp: 2714

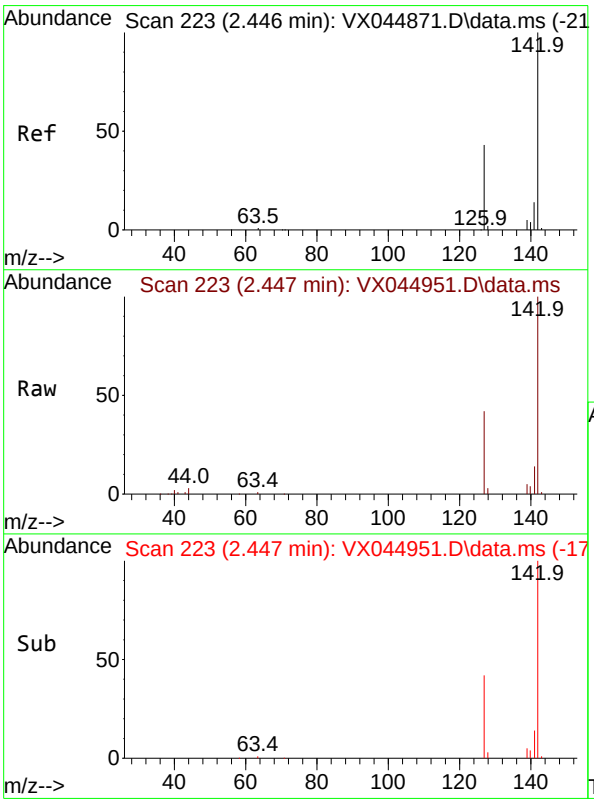
Ion	Ratio	Lower	Upper
101	100		
85	46.9	35.7	53.5
151	71.4	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

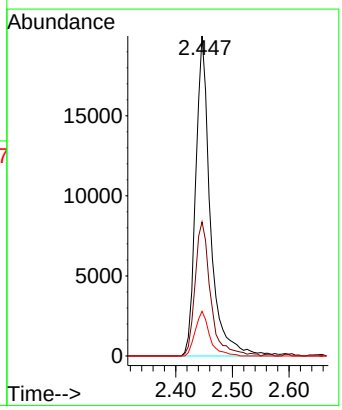
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

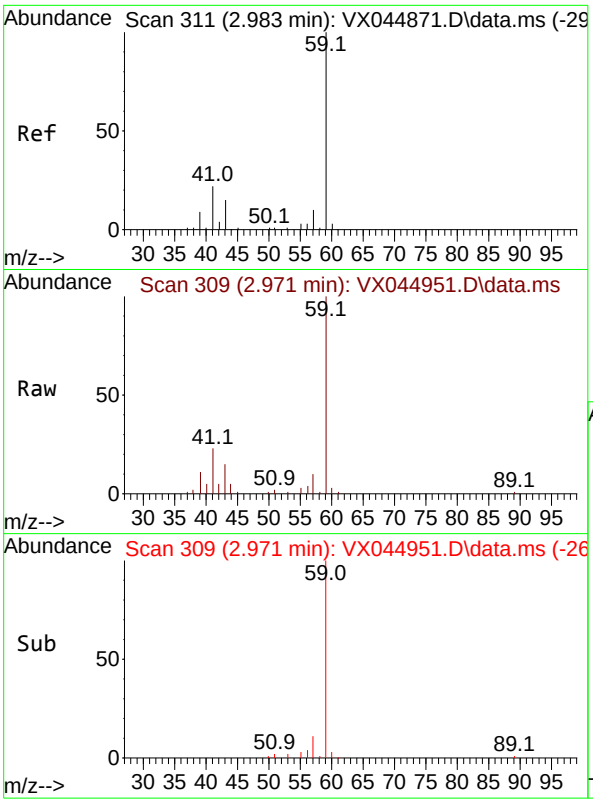


#10
Methyl Iodide
Concen: 20.109 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:142 Resp: 35949

Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.3	51.5
141	13.8	11.4	17.2

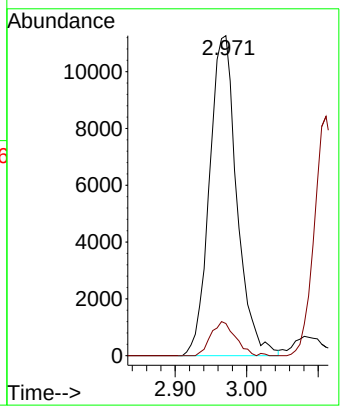




#11
Tert butyl alcohol
Concen: 101.141 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 59 Resp: 2998

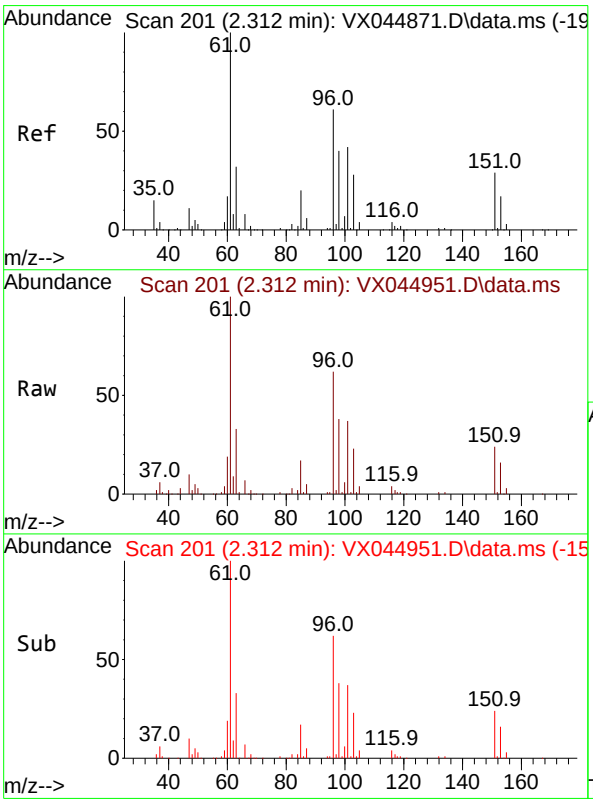
Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

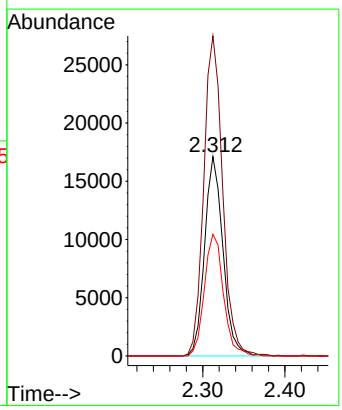
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

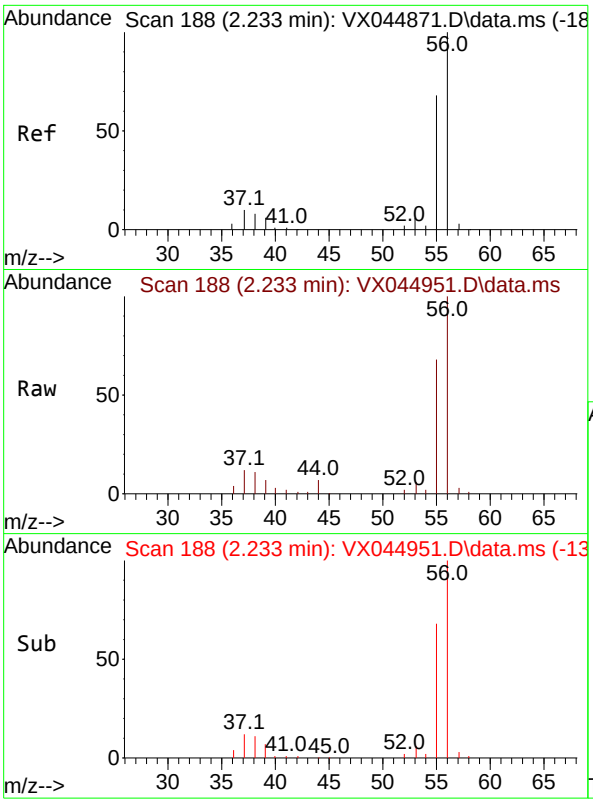


#12
1,1-Dichloroethene
Concen: 18.930 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 96 Resp: 26636

Ion	Ratio	Lower	Upper
96	100		
61	160.5	130.2	195.4
98	61.0	52.2	78.4

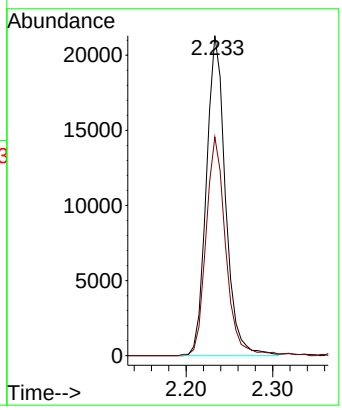




#13
Acrolein
Concen: 106.546 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 56 Resp: 3258

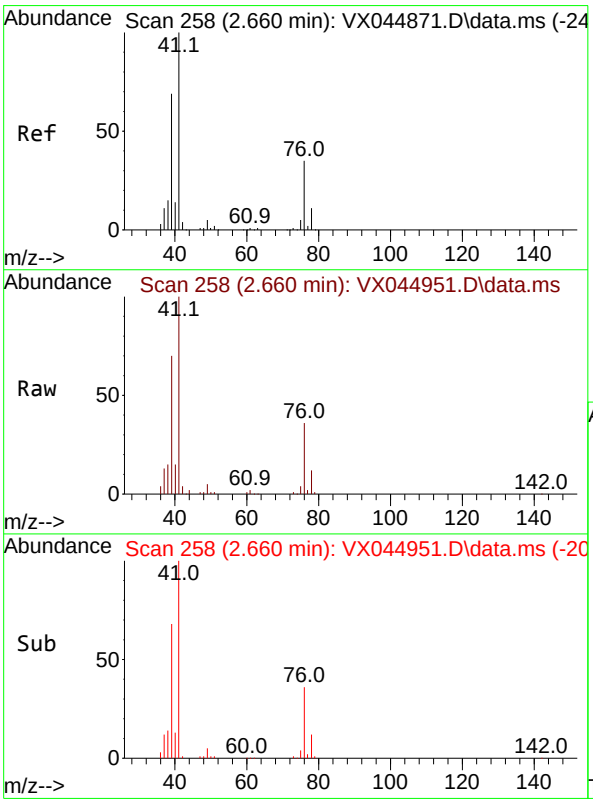
Ion	Ratio	Lower	Upper
56	100		
55	70.9	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

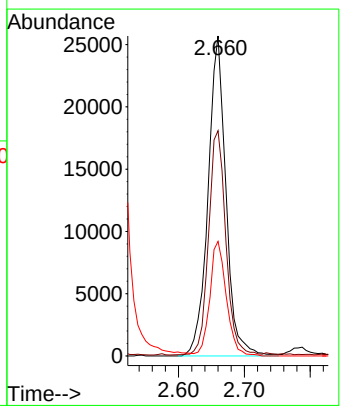
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

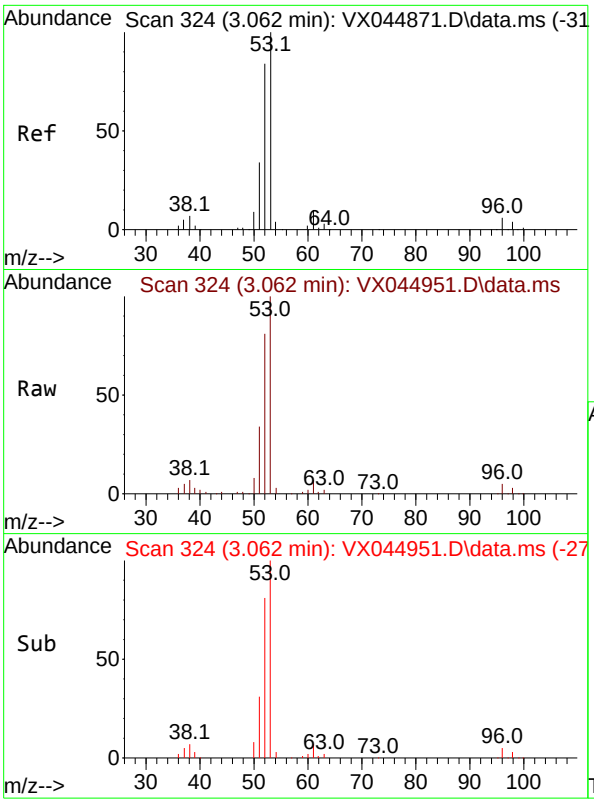


#14
Allyl chloride
Concen: 19.193 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 41 Resp: 48808

Ion	Ratio	Lower	Upper
41	100		
39	67.1	51.4	77.2
76	32.9	27.0	40.4

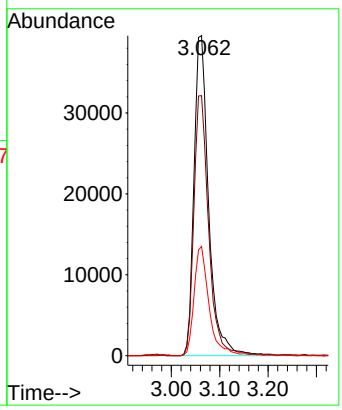




#15
Acrylonitrile
Concen: 105.222 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 53 Resp: 8328

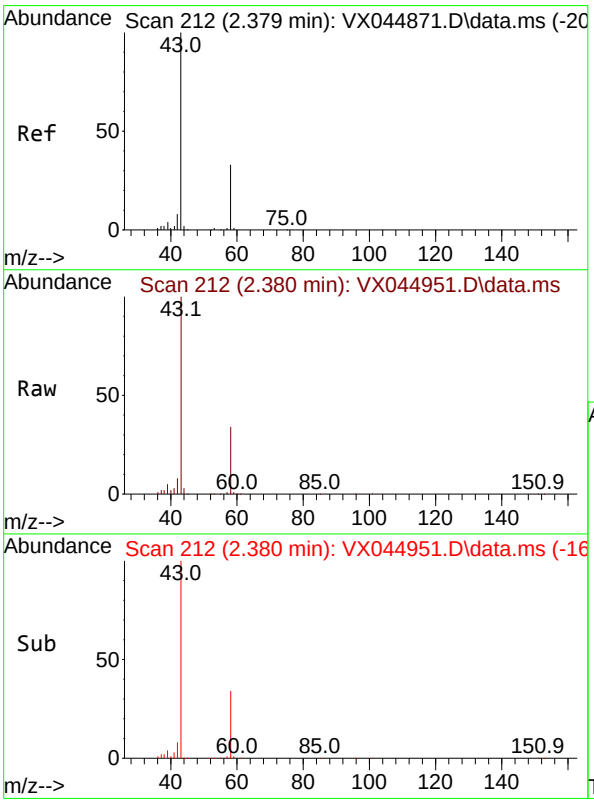
Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.0	97.6
51	35.1	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

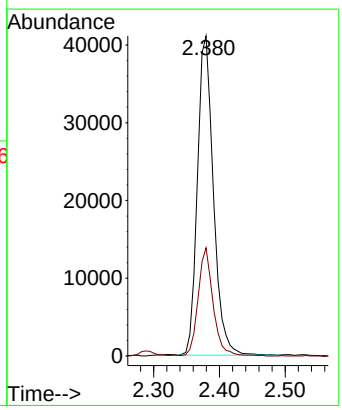
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

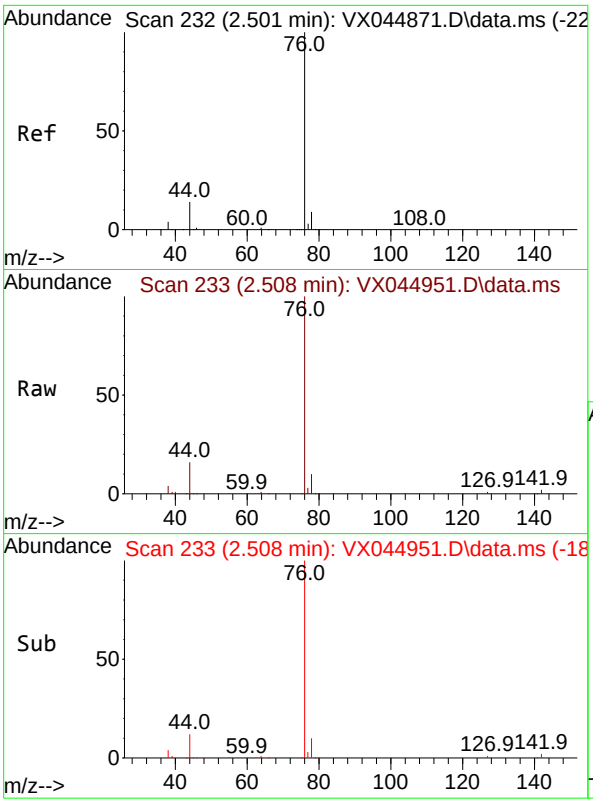


#16
Acetone
Concen: 107.742 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 69215

Ion	Ratio	Lower	Upper
43	100		
58	33.9	26.5	39.7

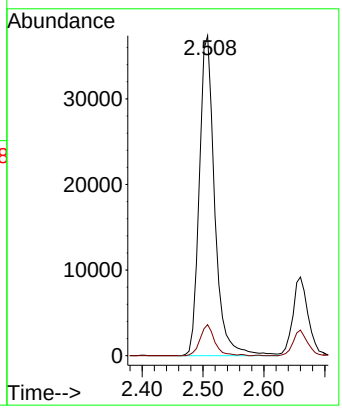




#17
Carbon Disulfide
Concen: 17.025 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 76 Resp: 6569

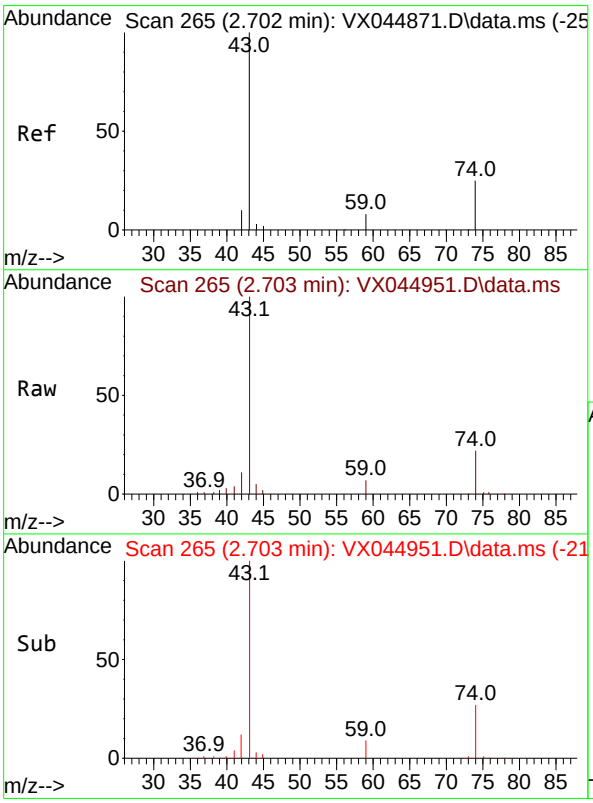
Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

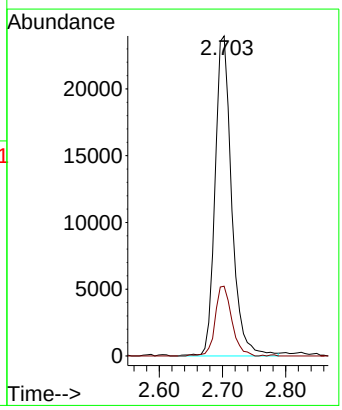
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

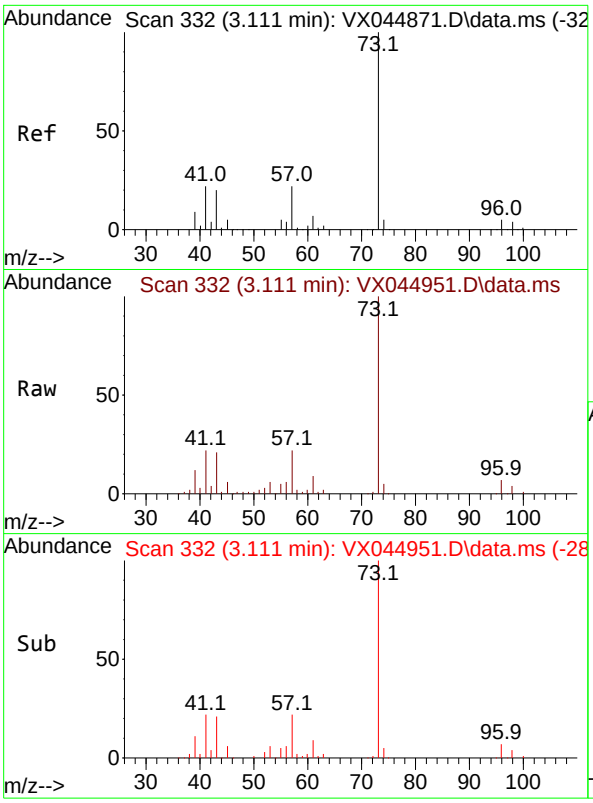


#18
Methyl Acetate
Concen: 21.518 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 43622

Ion	Ratio	Lower	Upper
43	100		
74	21.9	18.9	28.3

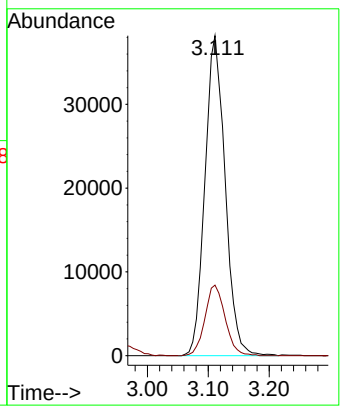




#19
Methyl tert-butyl Ether
Concen: 19.675 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 73 Resp: 8808

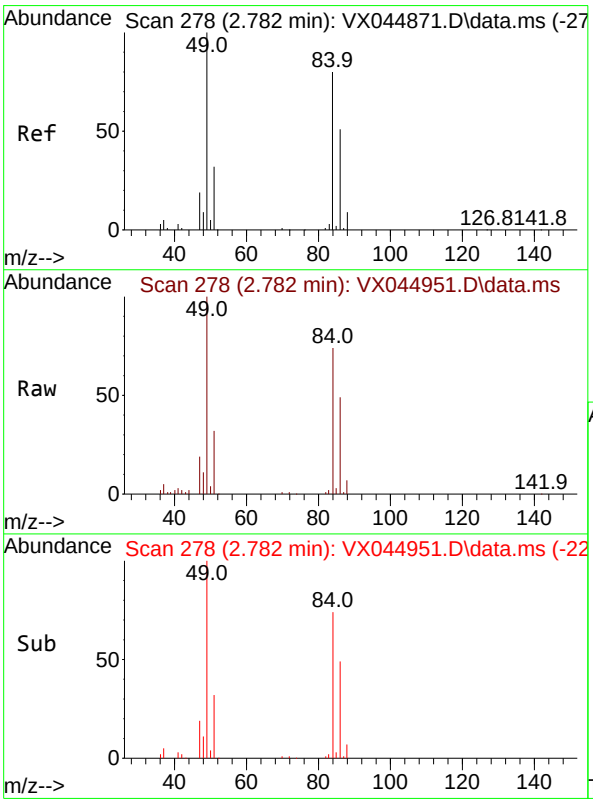
Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

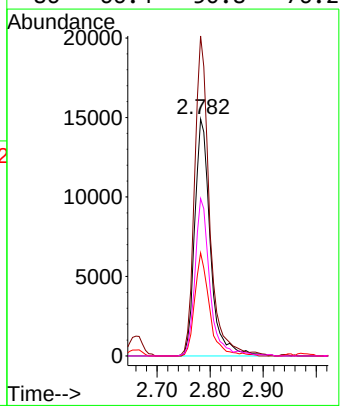
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

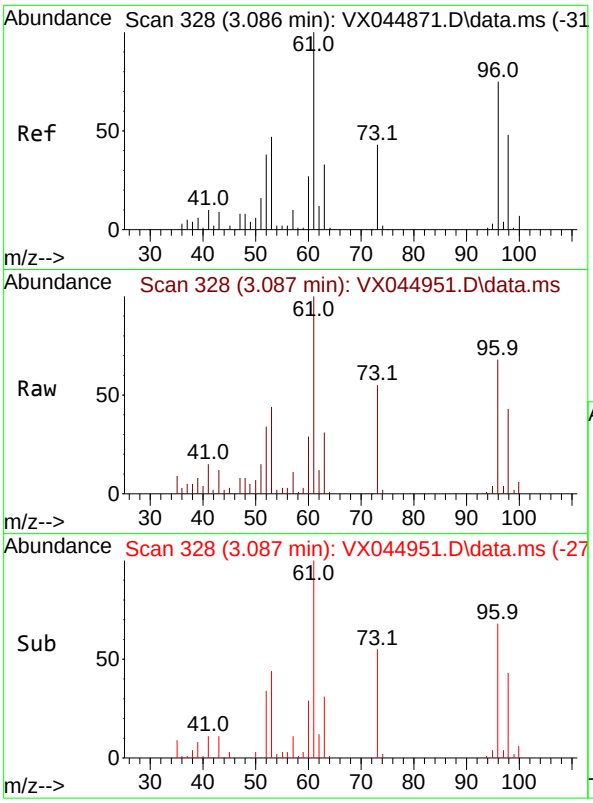


#20
Methylene Chloride
Concen: 19.308 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 84 Resp: 30381

Ion	Ratio	Lower	Upper
84	100		
49	135.1	100.1	150.1
51	43.5	31.7	47.5
86	66.4	50.8	76.2

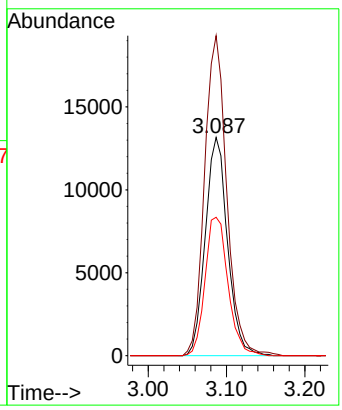




#21
trans-1,2-Dichloroethene
Concen: 18.726 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 96 Resp: 2593

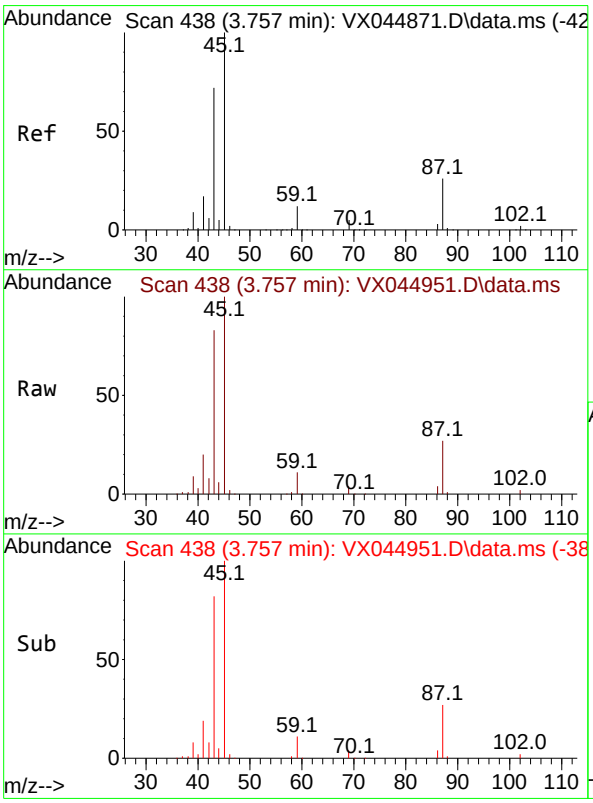
Ion	Ratio	Lower	Upper
96	100		
61	146.6	106.0	159.0
98	63.4	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

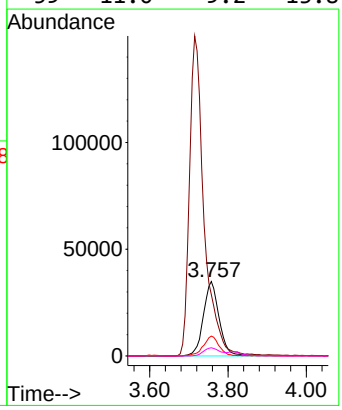
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

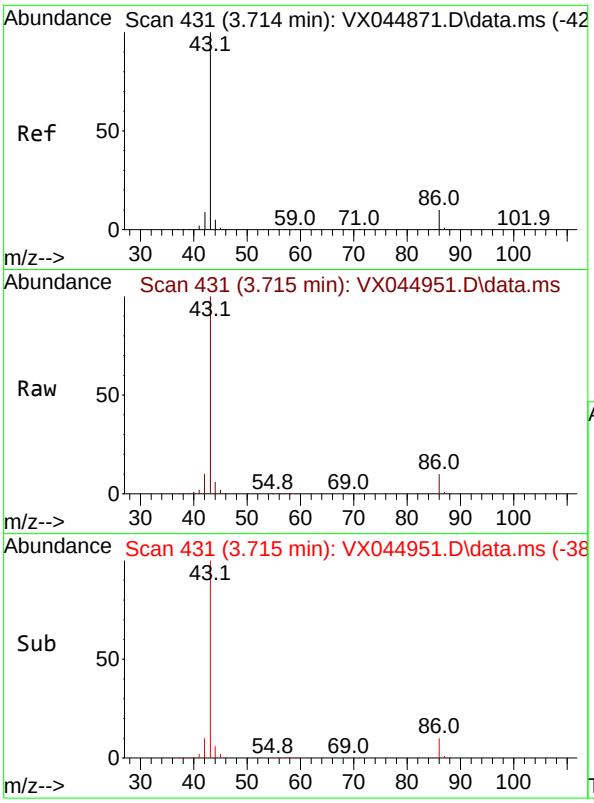


#22
Diisopropyl ether
Concen: 20.312 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 45 Resp: 97720

Ion	Ratio	Lower	Upper
45	100		
43	82.0	58.0	87.0
87	26.6	20.7	31.1
59	11.0	9.2	13.8





#23
Vinyl Acetate
Concen: 99.216 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

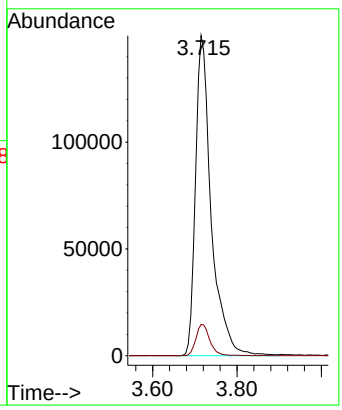
Tgt Ion: 43 Resp: 38914

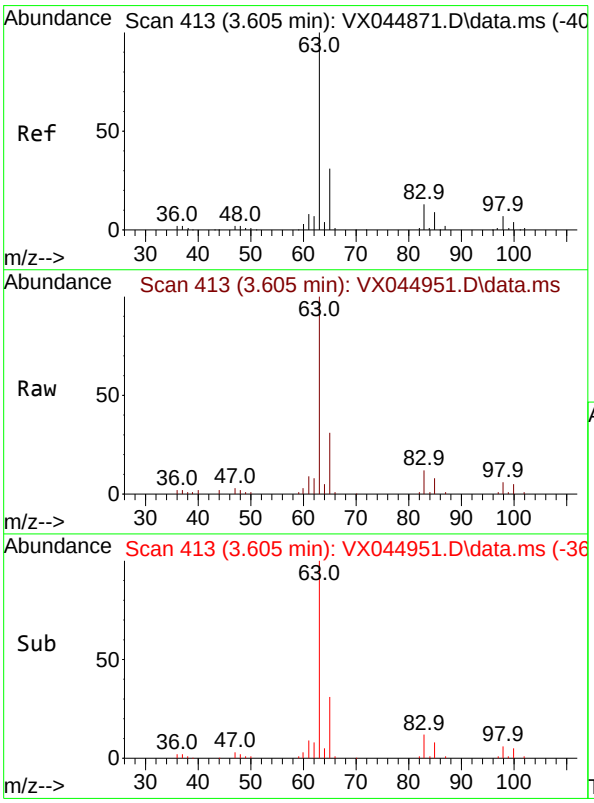
Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

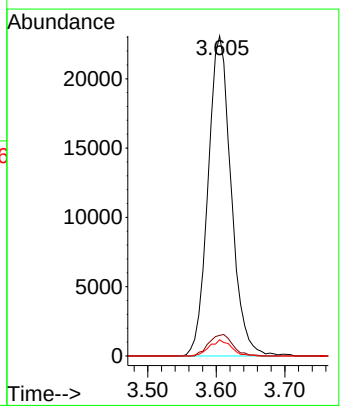


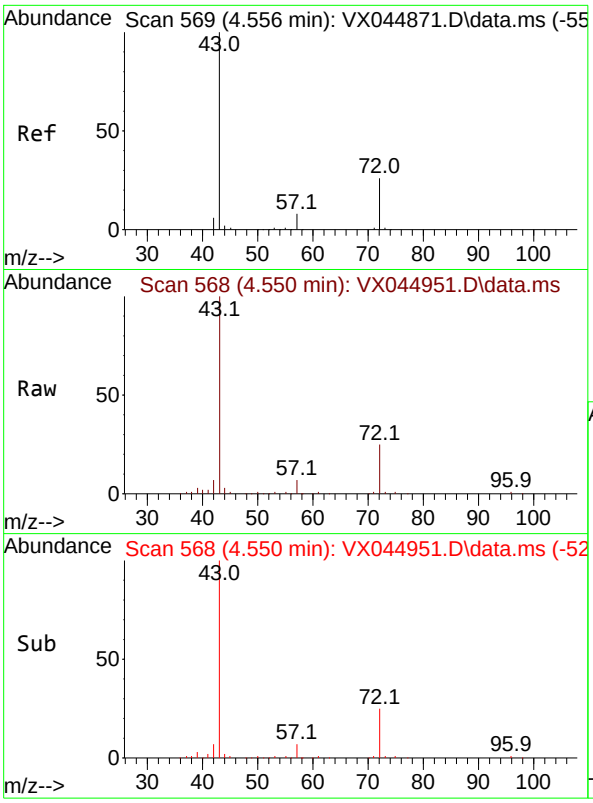


#24
1,1-Dichloroethane
Concen: 20.015 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 63 Resp: 53879

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.9
100	5.1	2.1	6.5

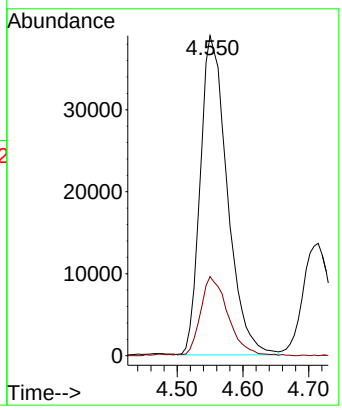




#25
2-Butanone
Concen: 106.657 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 11126

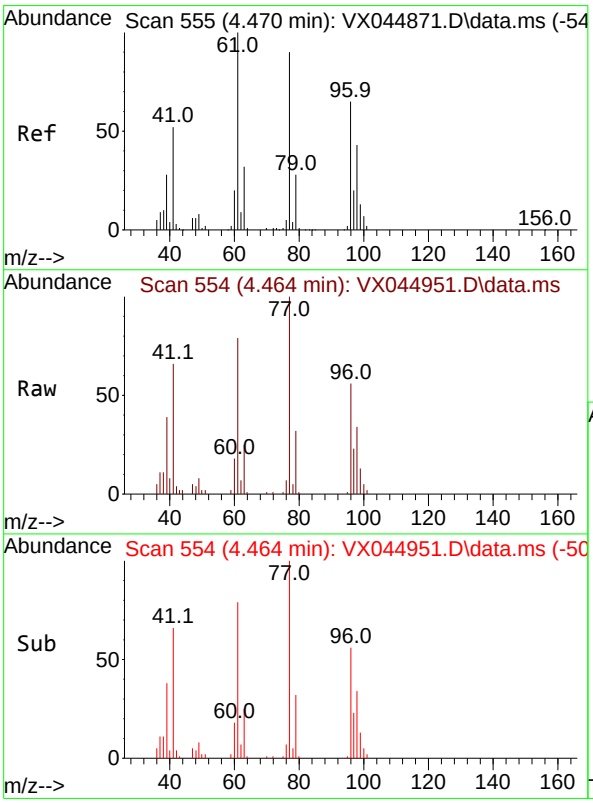
Ion	Ratio	Lower	Upper
43	100		
72	24.6	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

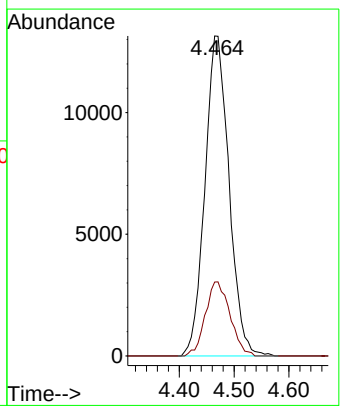
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

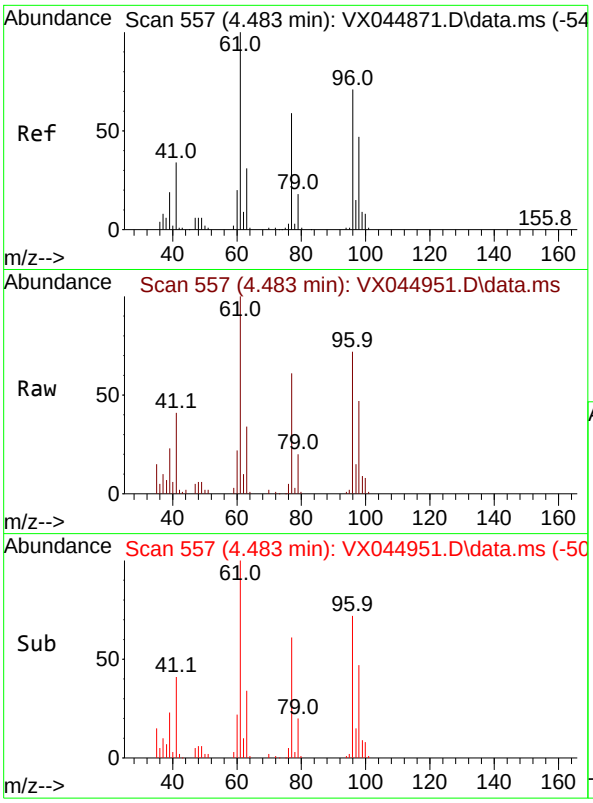


#26
2,2-Dichloropropane
Concen: 18.798 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 77 Resp: 40129

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.8	35.3

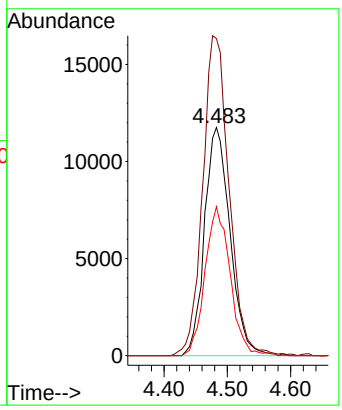




#27
cis-1,2-Dichloroethene
Concen: 19.815 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 96 Resp: 3296

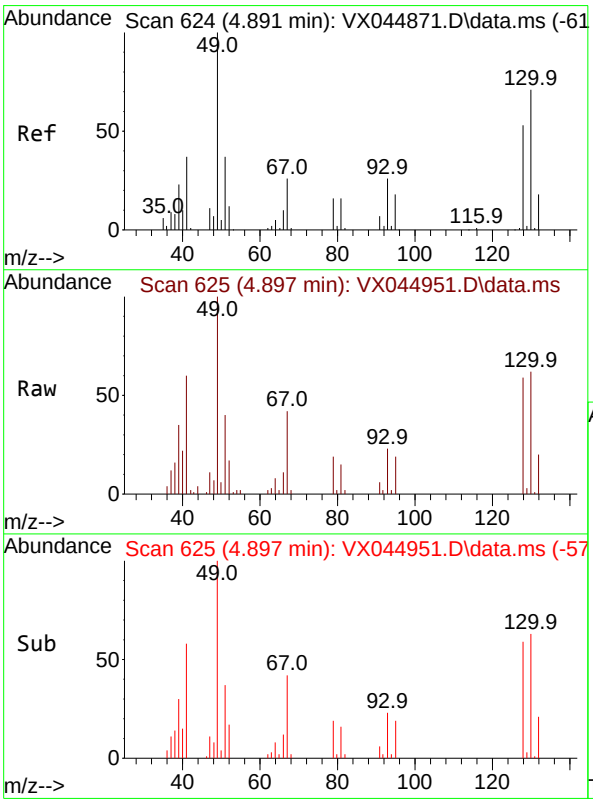
Ion	Ratio	Lower	Upper
96	100		
61	144.9	0.0	294.0
98	64.2	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

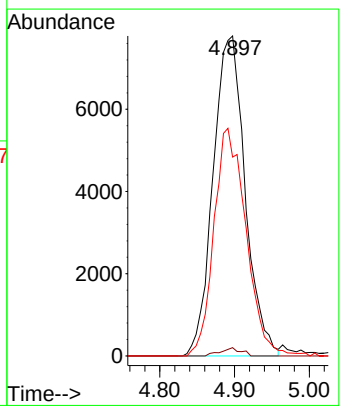
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

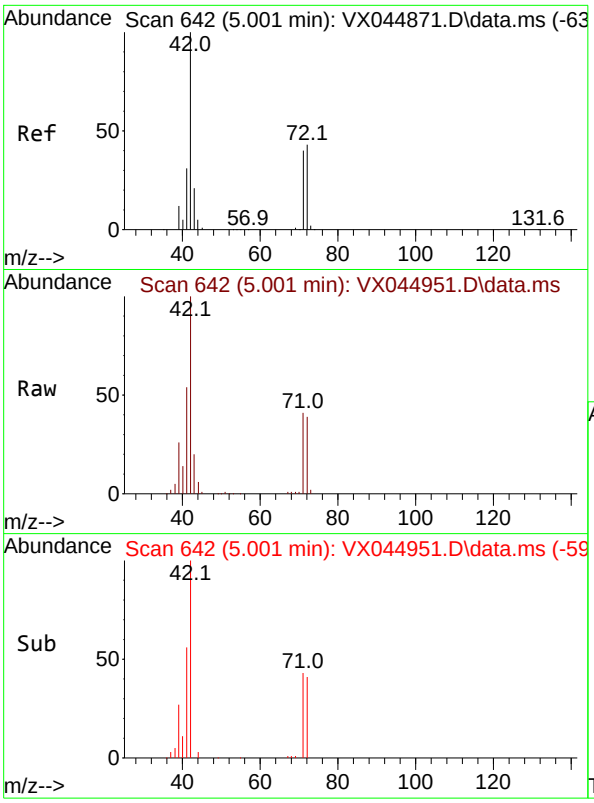


#28
Bromochloromethane
Concen: 17.943 ug/l
RT: 4.897 min Scan# 625
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 49 Resp: 23212

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.6
130	71.4	56.7	85.1

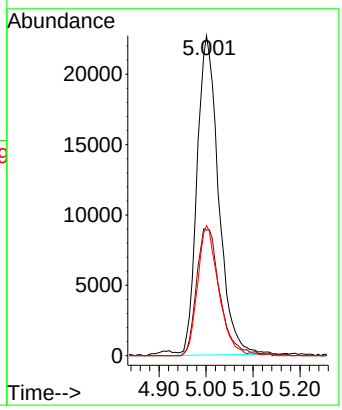




#29
Tetrahydrofuran
Concen: 104.443 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 42 Resp: 7234

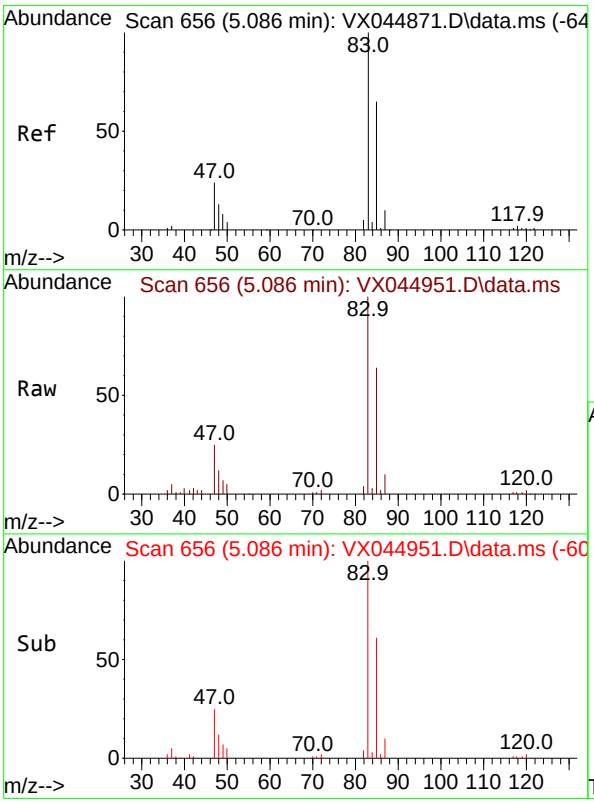
Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.0	52.4
71	40.0	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

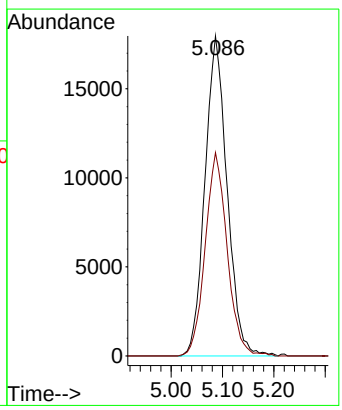
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

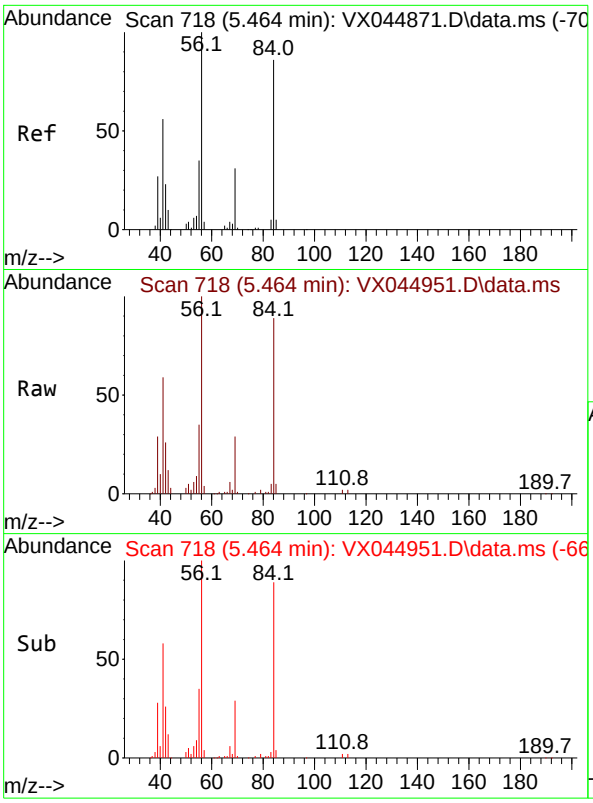


#30
Chloroform
Concen: 20.580 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 83 Resp: 53725

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.1	78.1

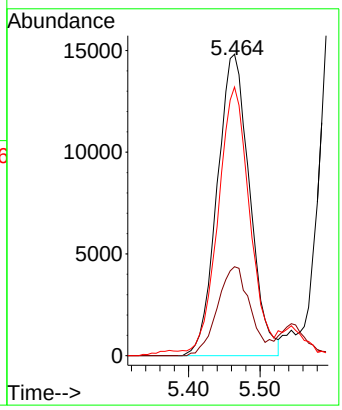




#31
Cyclohexane
Concen: 18.867 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 56 Resp: 4682

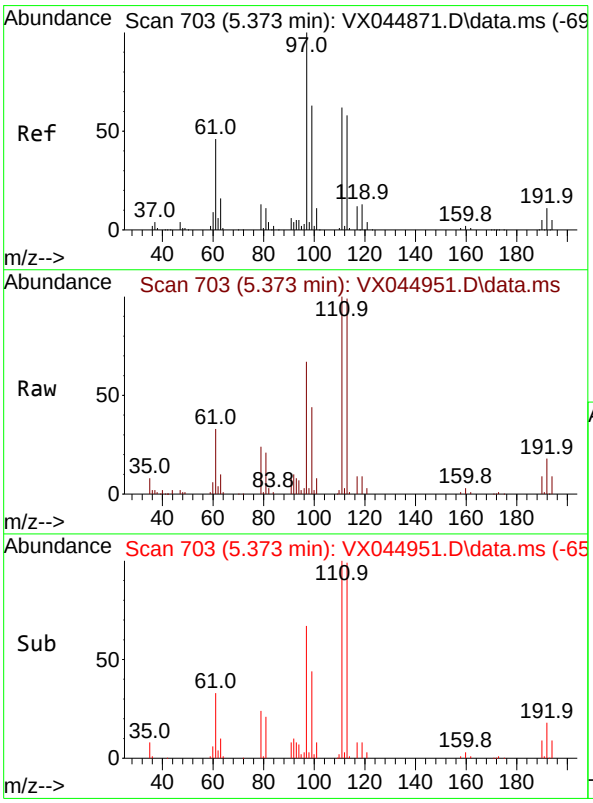
Ion	Ratio	Lower	Upper
56	100		
69	29.5	24.4	36.6
84	87.6	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

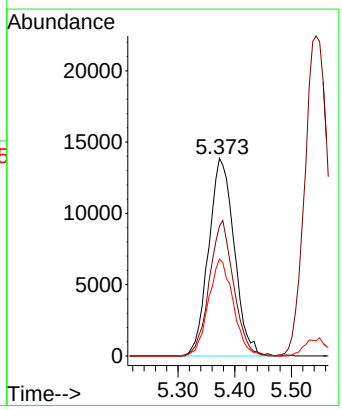
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

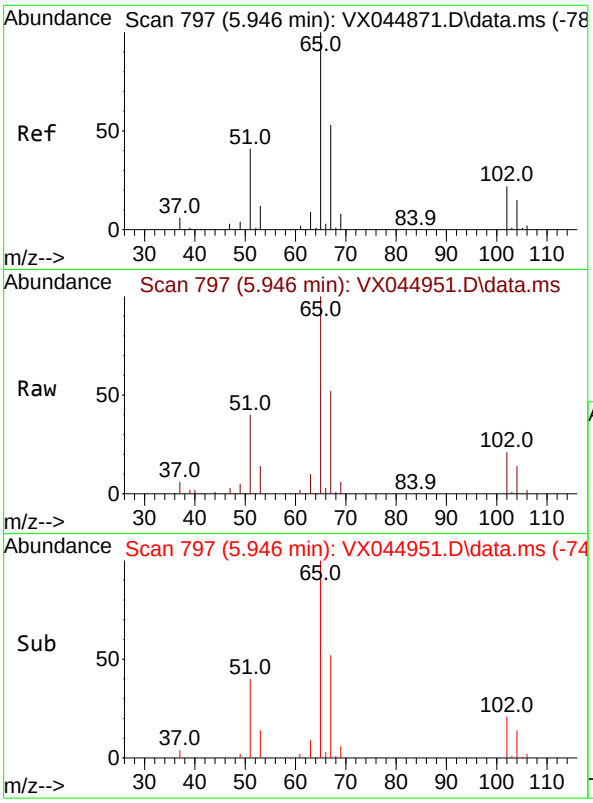


#32
1,1,1-Trichloroethane
Concen: 19.641 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 97 Resp: 43492

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.0	76.6
61	47.3	36.6	55.0

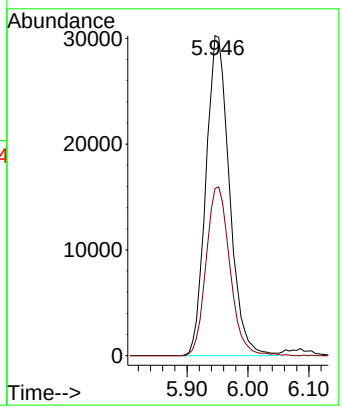




#33
1,2-Dichloroethane-d4
Concen: 50.718 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 65 Resp: 8104

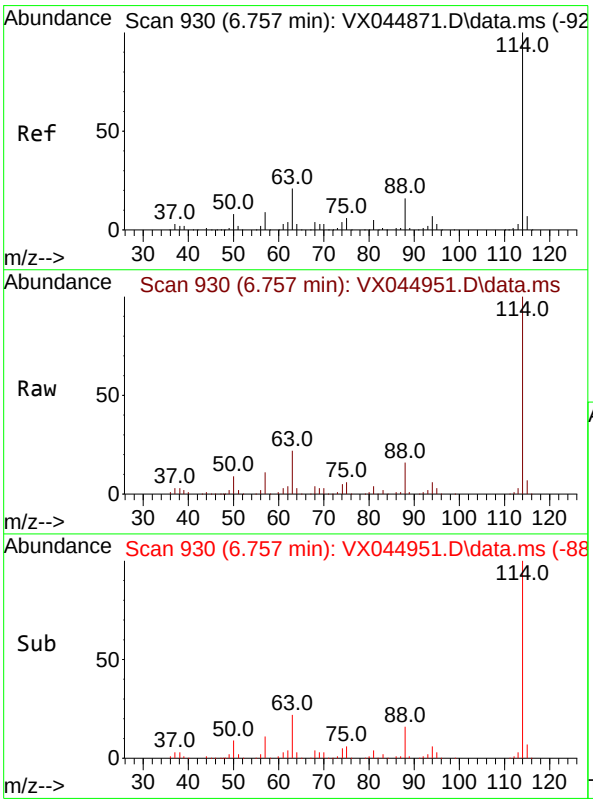
Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

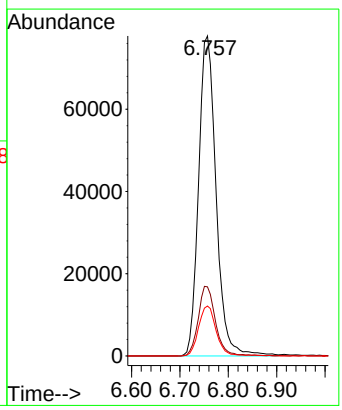
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

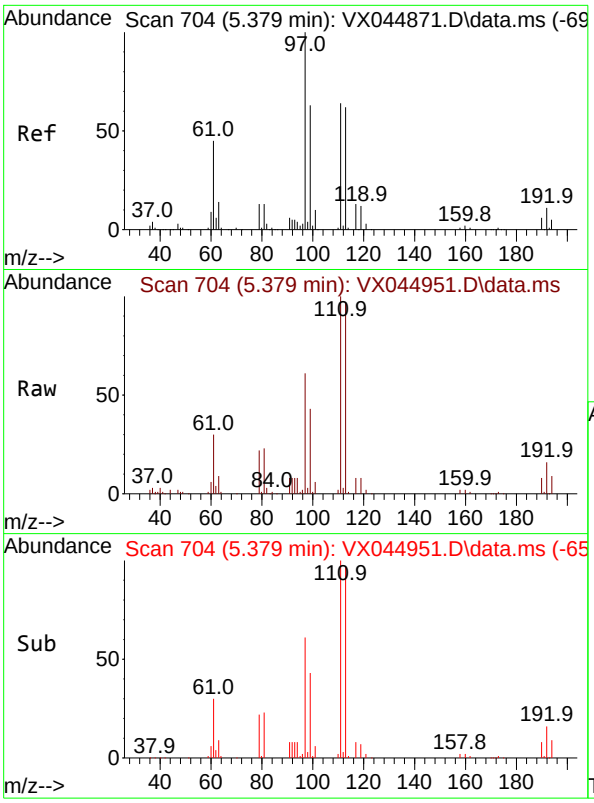


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:114 Resp: 195743

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.4
88	15.6	0.0	31.4

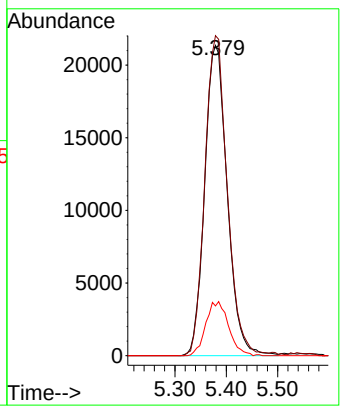




#35
Dibromofluoromethane
Concen: 51.117 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:113 Resp: 6505

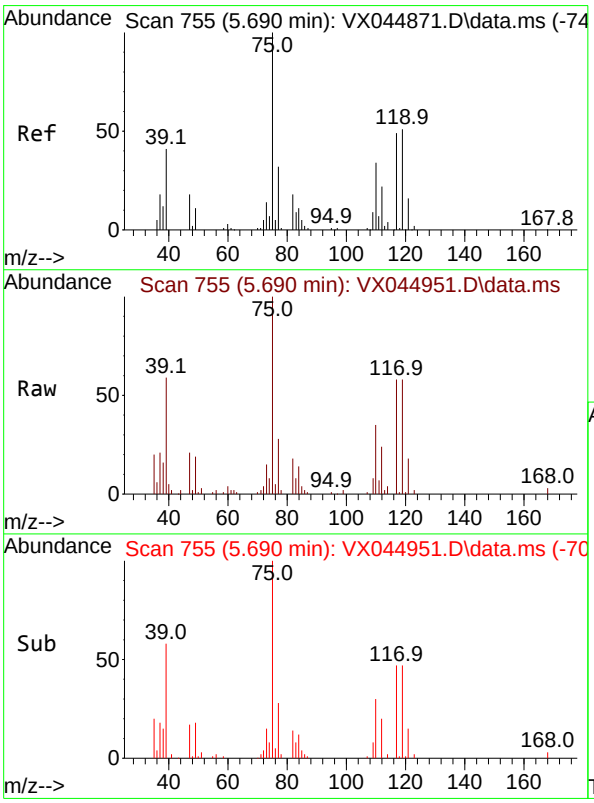
Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.5	125.3
192	17.7	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

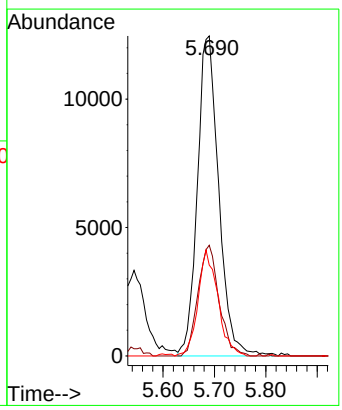
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

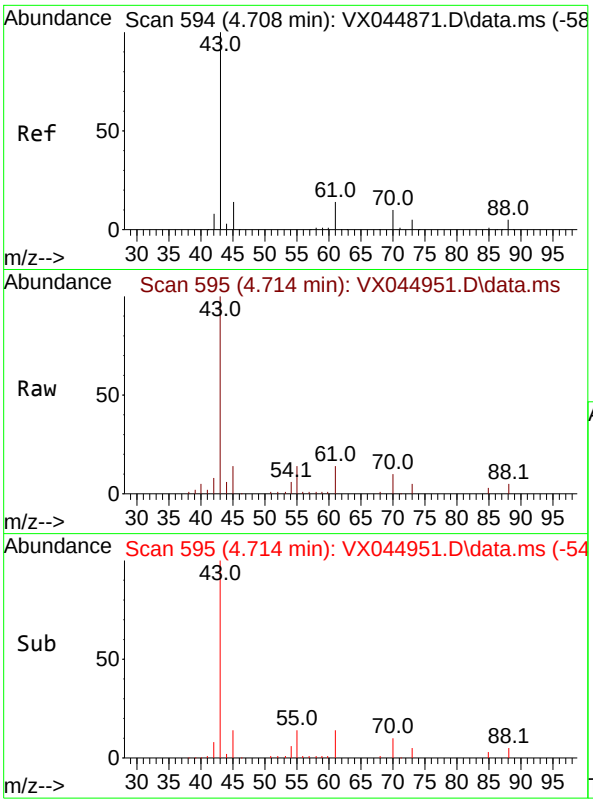


#36
1,1-Dichloropropene
Concen: 19.602 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 35991

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.2	51.6
77	30.8	24.6	37.0

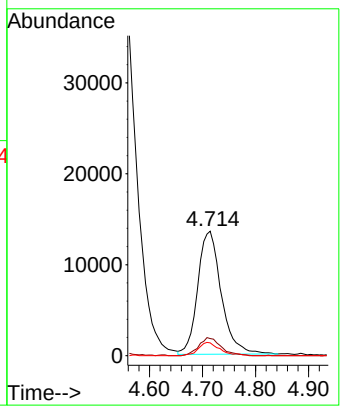




#37
Ethyl Acetate
Concen: 20.428 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 4172

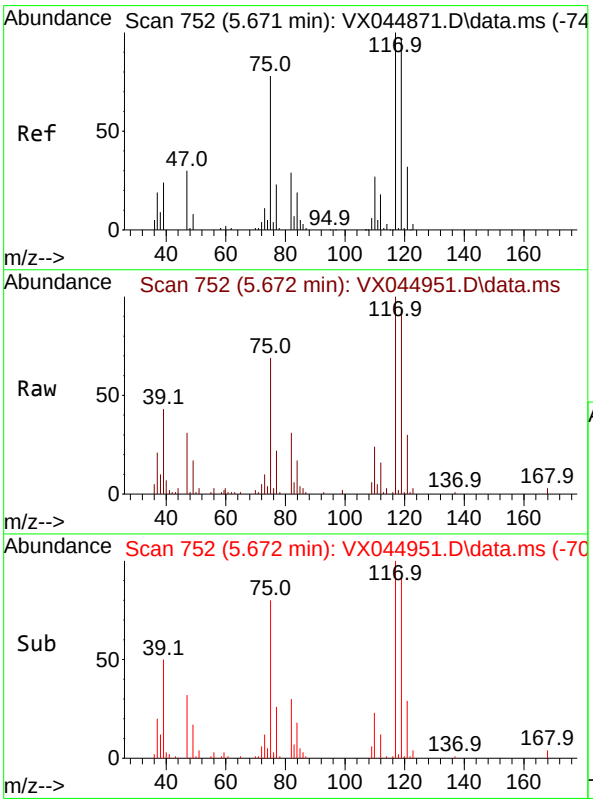
Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.0	16.4
70	9.9	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

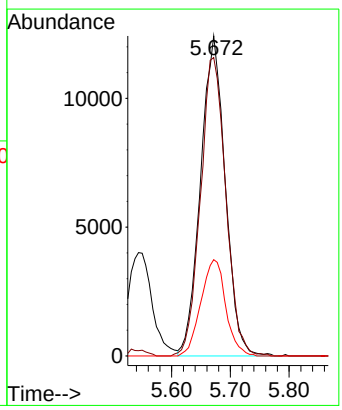
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

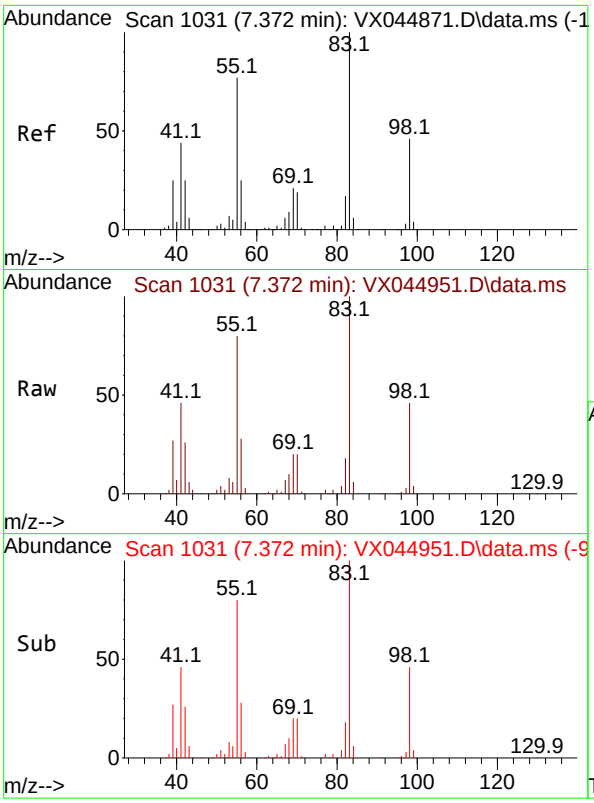


#38
Carbon Tetrachloride
Concen: 20.174 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:117 Resp: 36299

Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.5	116.3
121	30.1	25.6	38.4

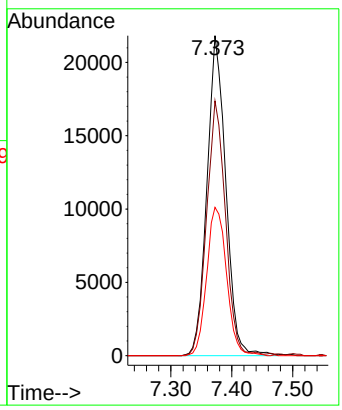




#39
Methylcyclohexane
Concen: 19.769 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 83 Resp: 4692

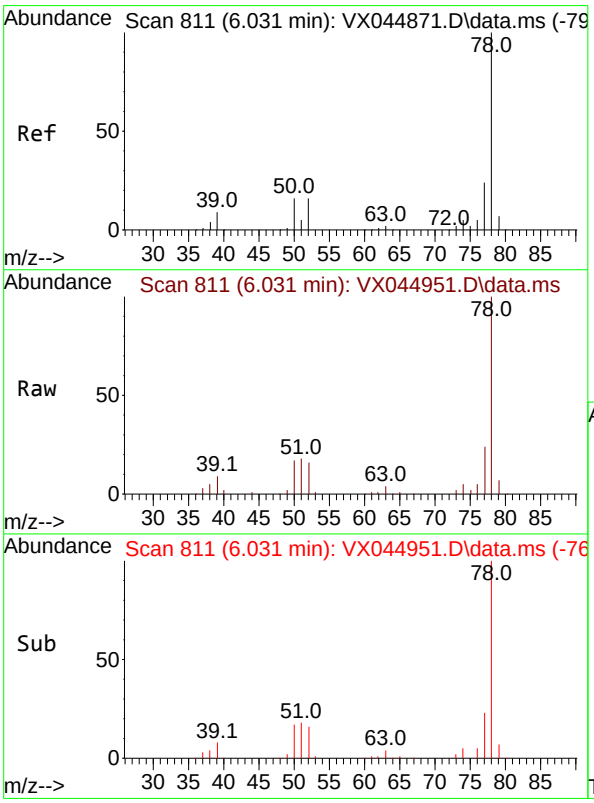
Ion	Ratio	Lower	Upper
83	100		
55	79.6	61.3	91.9
98	46.4	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

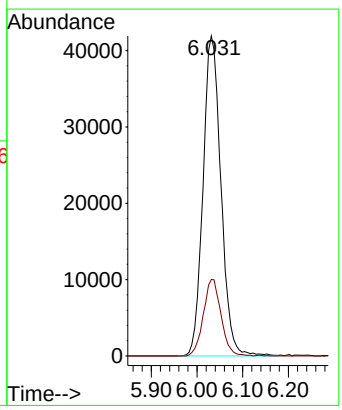
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

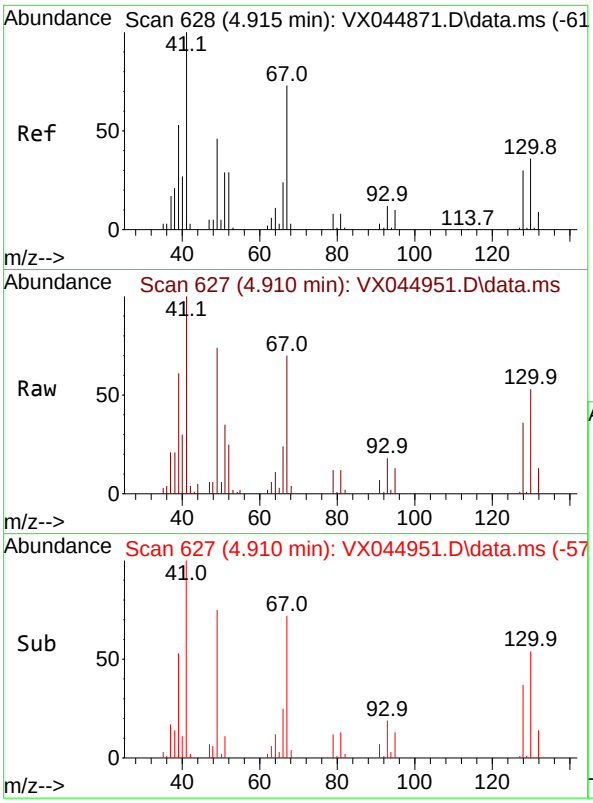


#40
Benzene
Concen: 19.958 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 78 Resp: 114429

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6

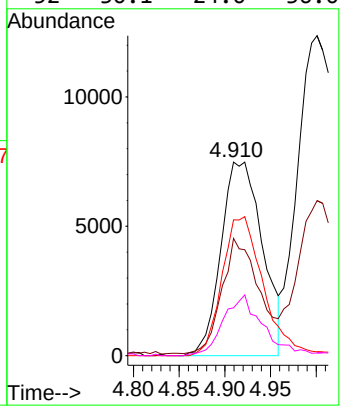




#41
Methacrylonitrile
Concen: 21.685 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 41 Resp: 2370

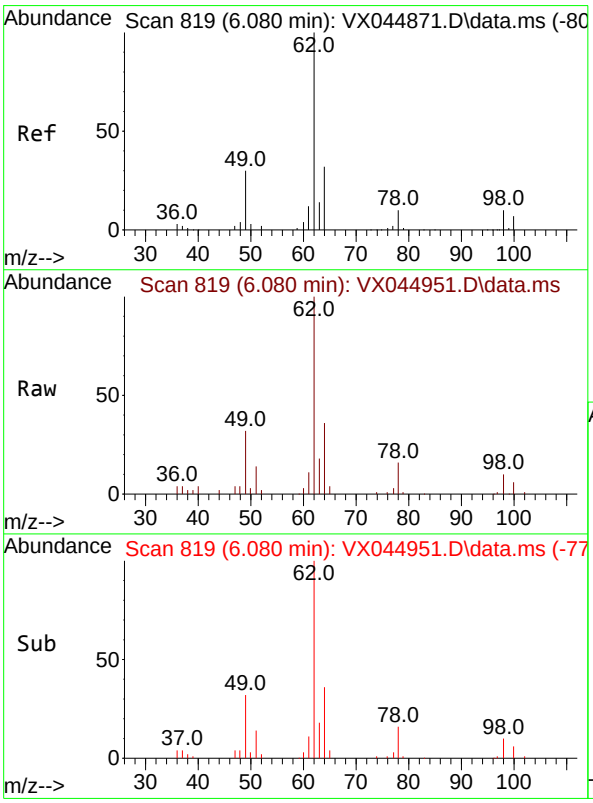
Ion	Ratio	Lower	Upper
41	100		
39	53.5	43.1	64.7
67	71.4	57.0	85.6
52	30.1	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

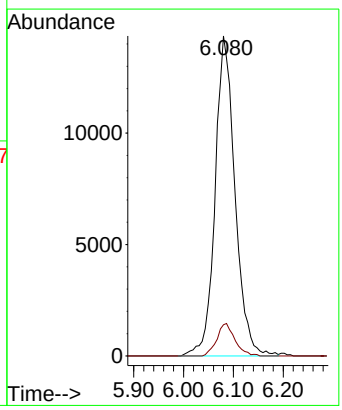
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

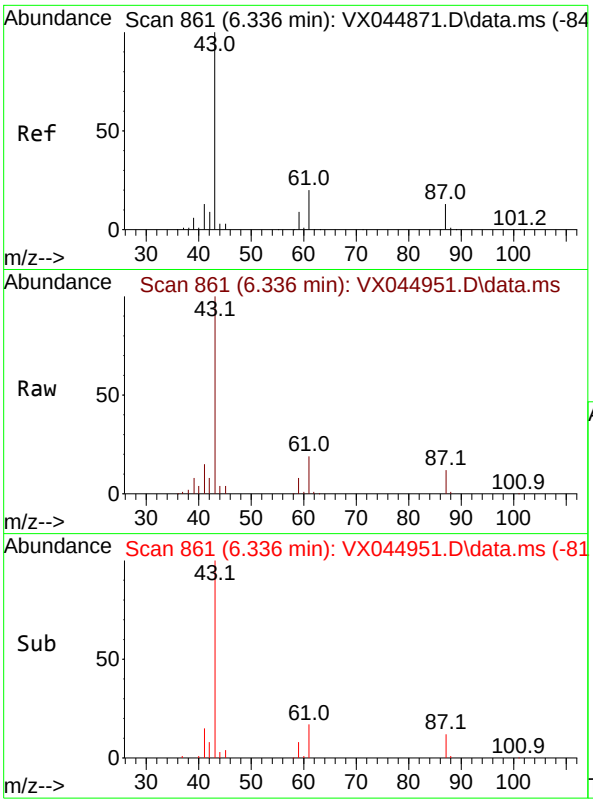


#42
1,2-Dichloroethane
Concen: 21.773 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 62 Resp: 39785

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.4

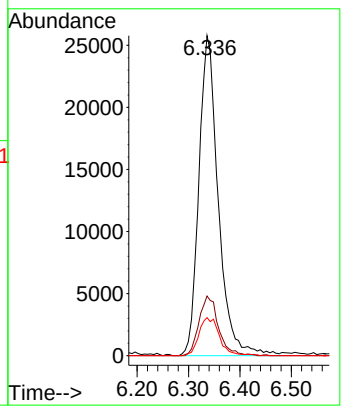




#43
Isopropyl Acetate
Concen: 20.524 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 6768

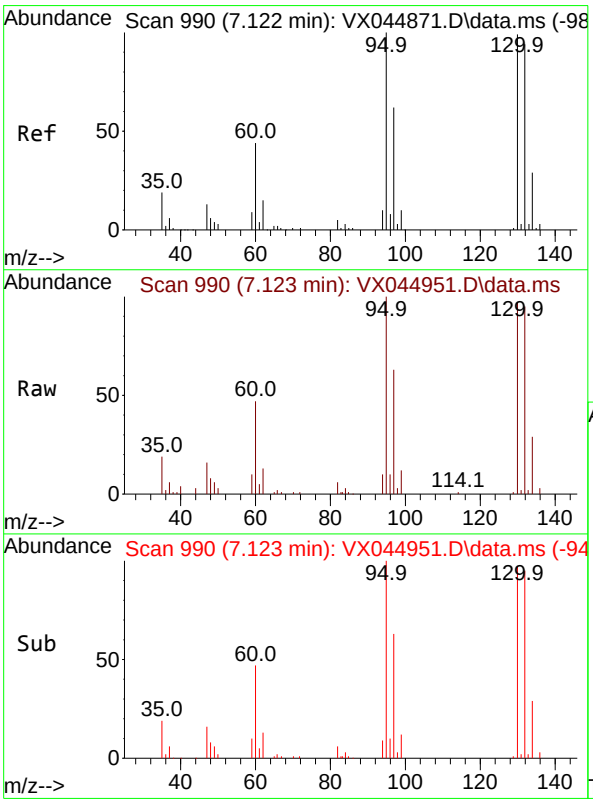
Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.8	23.8
87	12.4	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

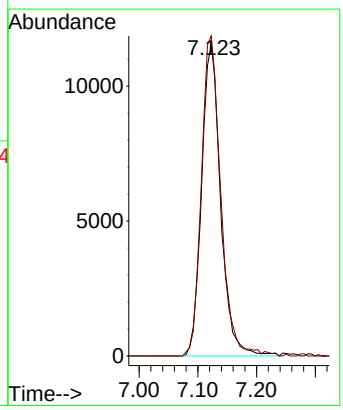
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

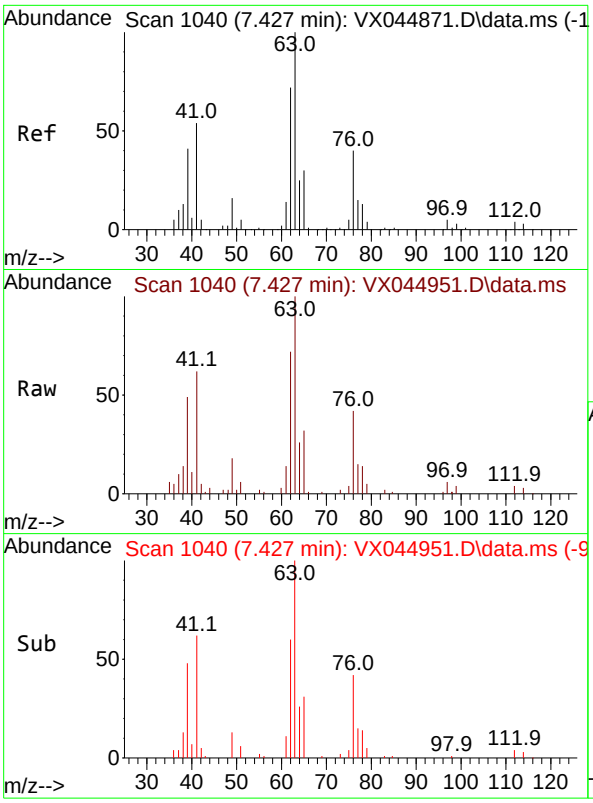


#44
Trichloroethene
Concen: 19.823 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:130 Resp: 25978

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	202.4

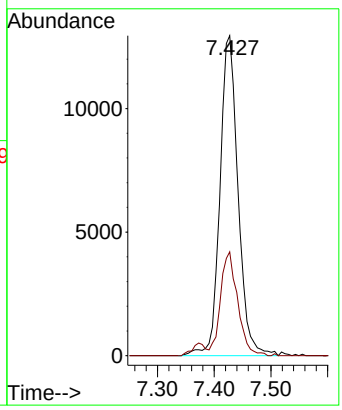




#45
1,2-Dichloropropane
Concen: 20.145 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 63 Resp: 2873

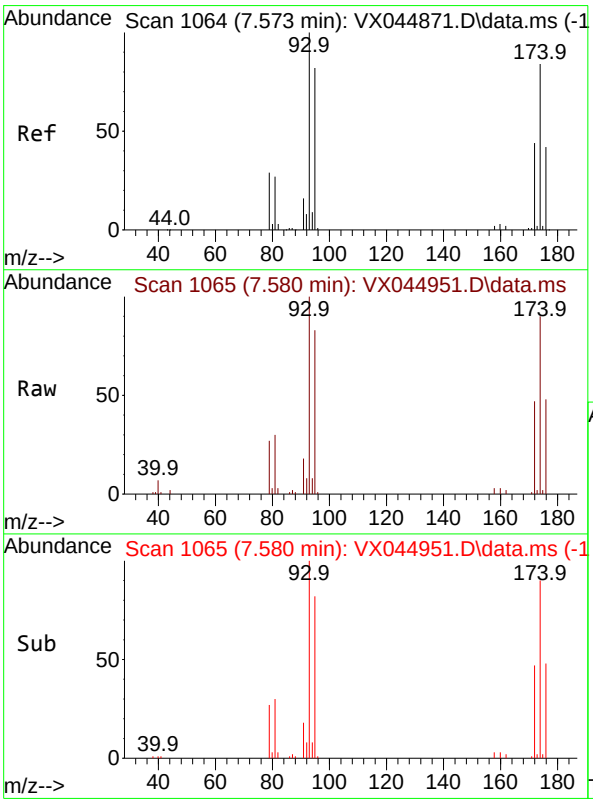
Ion	Ratio	Lower	Upper
63	100		
65	32.5	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

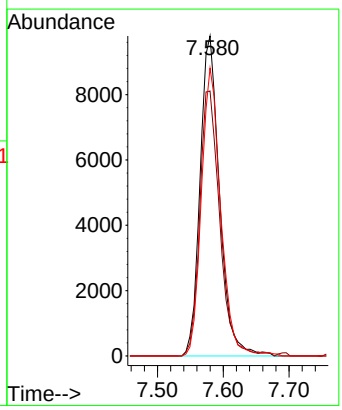
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

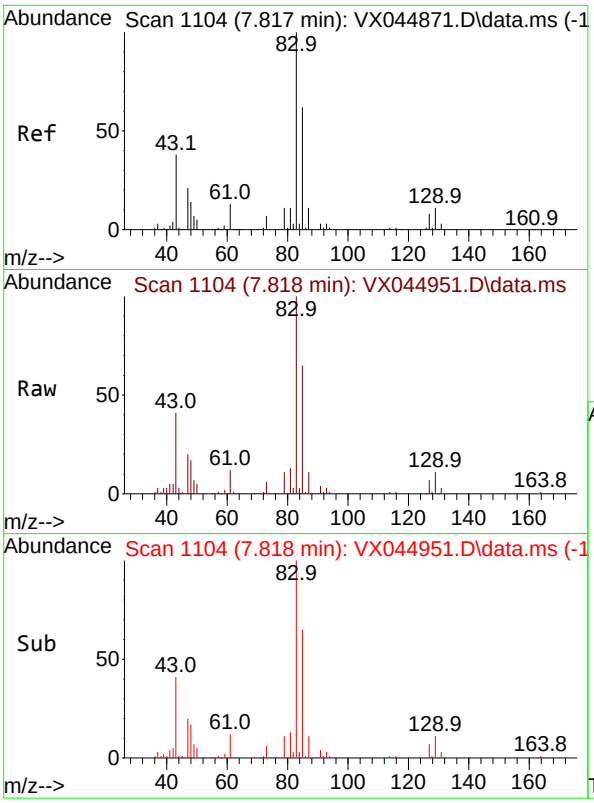


#46
Dibromomethane
Concen: 20.383 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 93 Resp: 20163

Ion	Ratio	Lower	Upper
93	100		
95	84.6	66.2	99.4
174	89.5	69.9	104.9

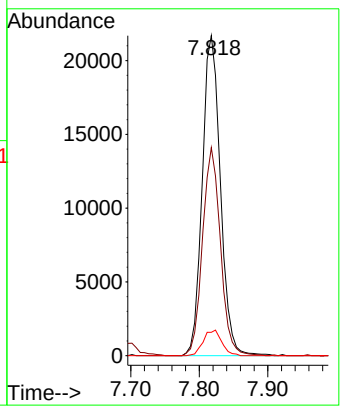




#47
Bromodichloromethane
Concen: 20.896 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 83 Resp: 4002

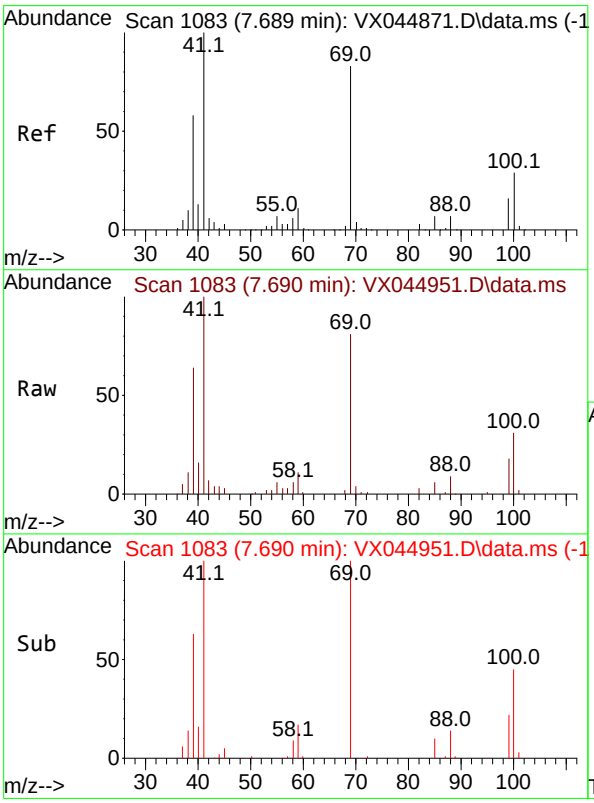
Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.0	75.0
127	7.3	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

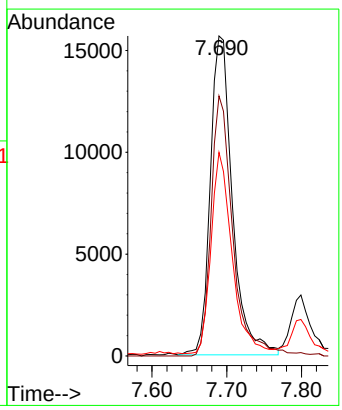
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

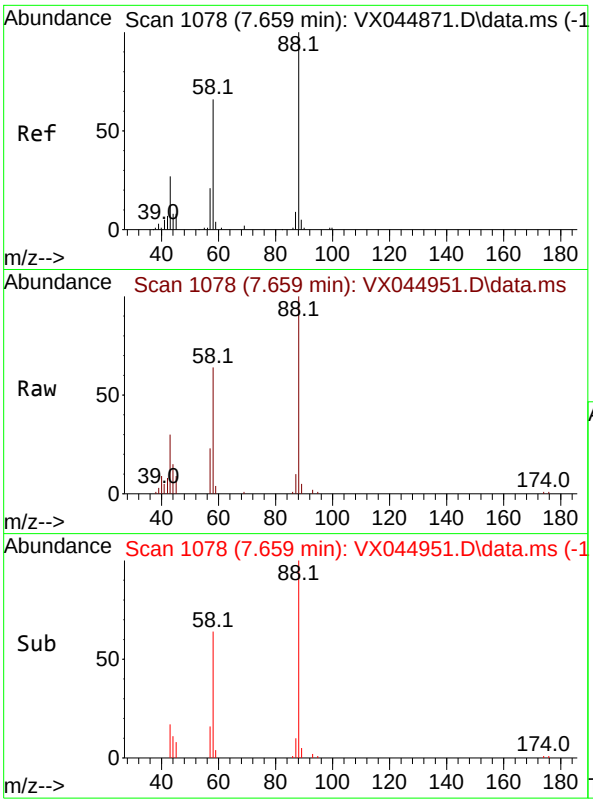


#48
Methyl methacrylate
Concen: 20.739 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 41 Resp: 32249

Ion	Ratio	Lower	Upper
41	100		
69	80.7	65.8	98.8
39	60.1	46.4	69.6

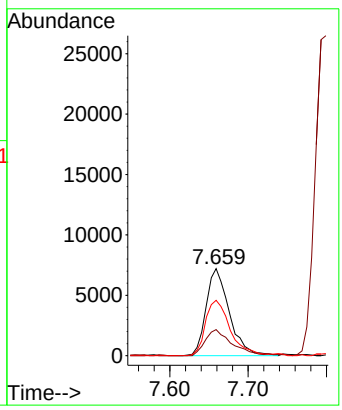




#49
1,4-Dioxane
Concen: 443.128 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 88 Resp: 1478

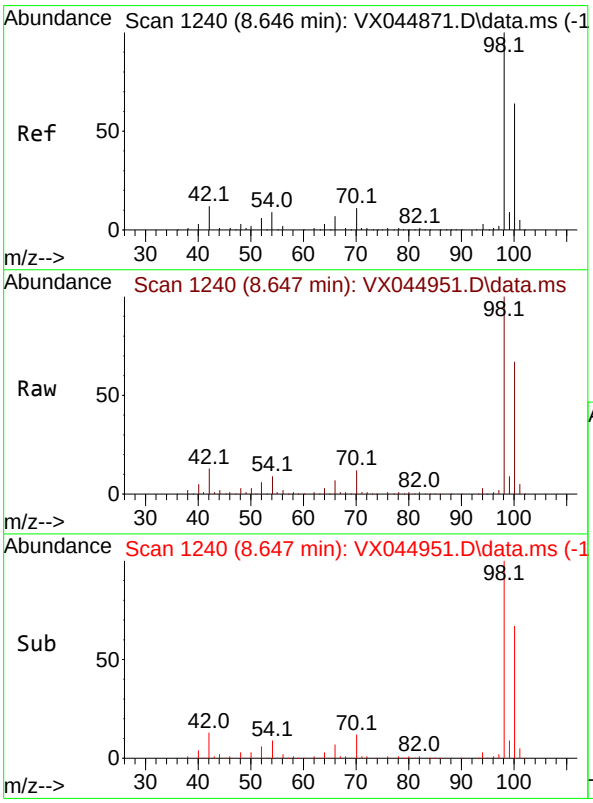
Ion	Ratio	Lower	Upper
88	100		
43	35.4	26.6	39.8
58	68.1	55.9	83.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

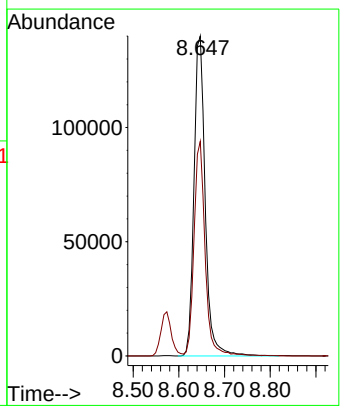
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

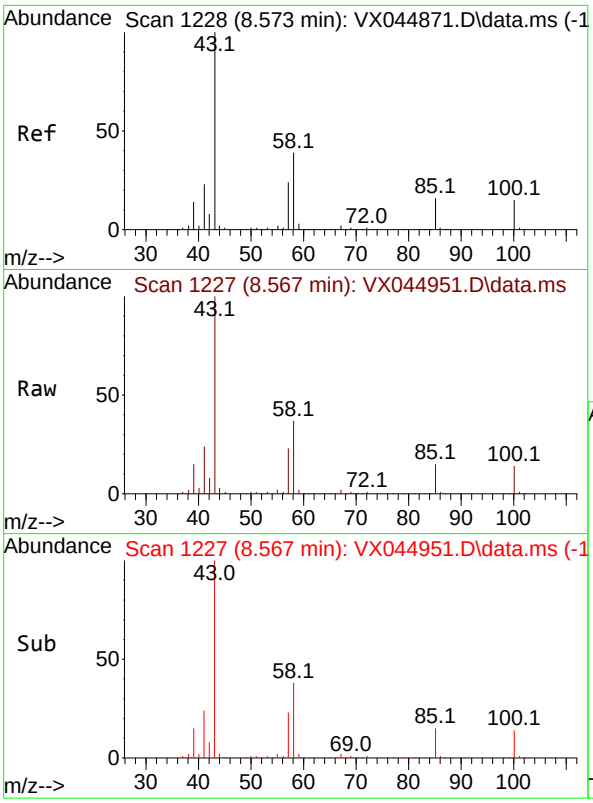


#50
Toluene-d8
Concen: 49.736 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 98 Resp: 239351

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.7	79.1

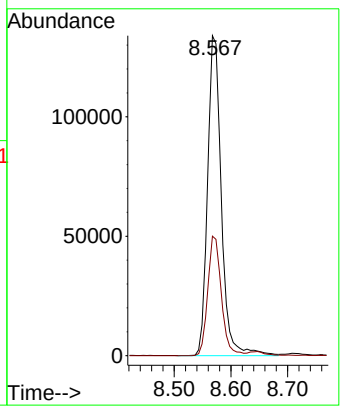




#51
4-Methyl-2-Pentanone
Concen: 112.703 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 22596

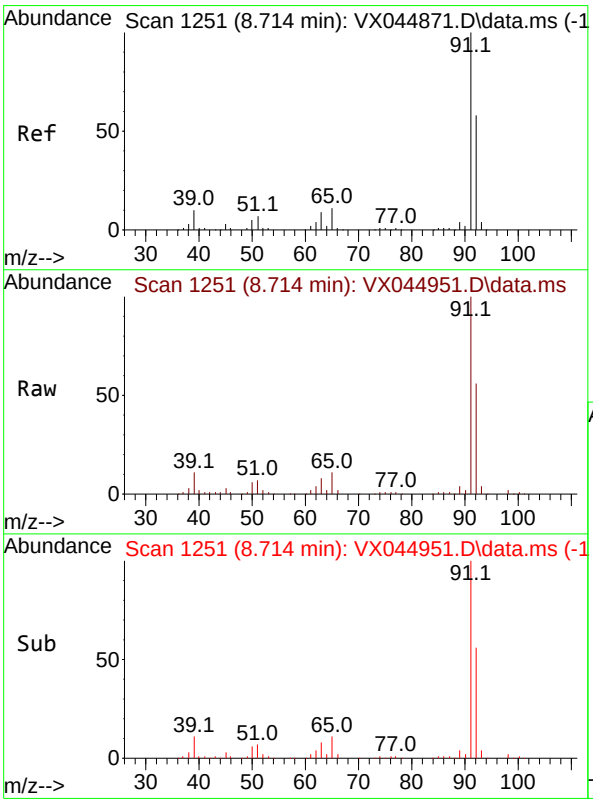
Ion	Ratio	Lower	Upper
43	100		
58	36.8	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

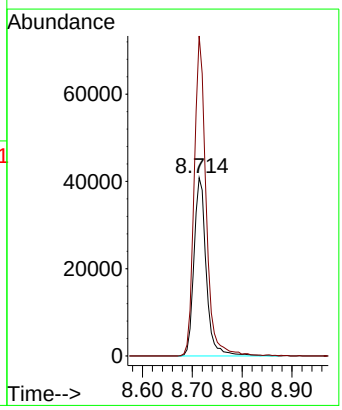
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

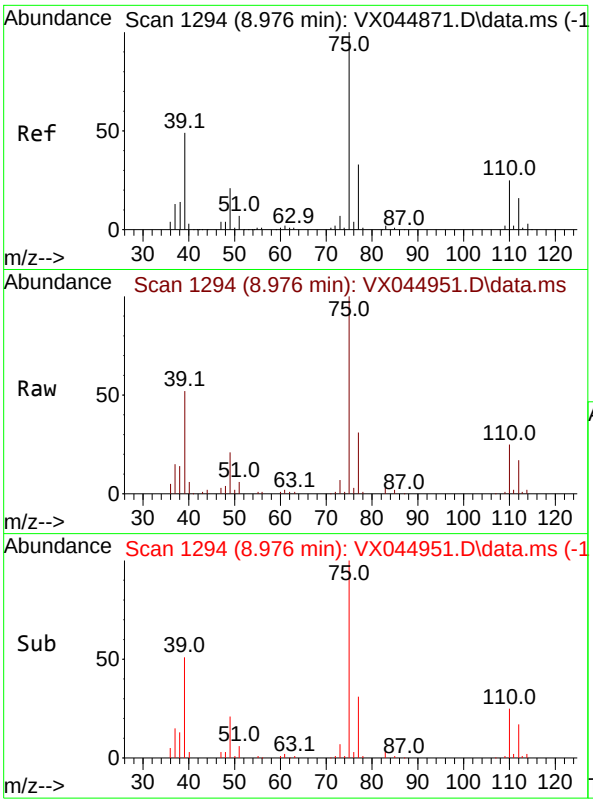


#52
Toluene
Concen: 20.427 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 92 Resp: 69748

Ion	Ratio	Lower	Upper
92	100		
91	174.6	137.4	206.2

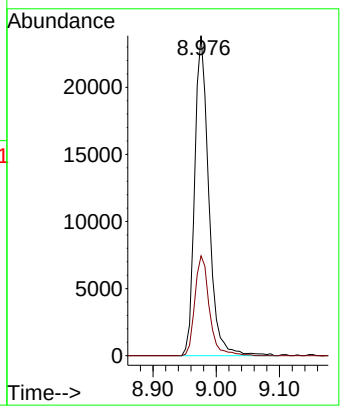




#53
t-1,3-Dichloropropene
Concen: 19.176 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 3716

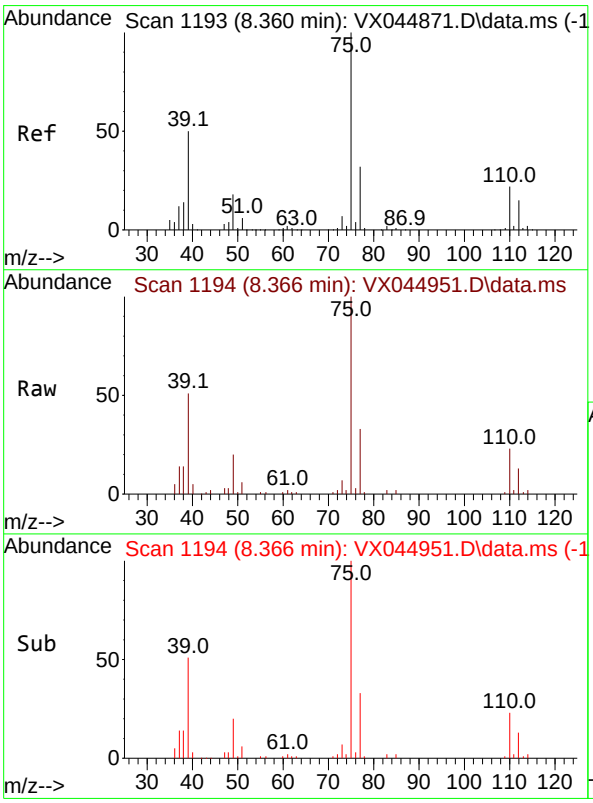
Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

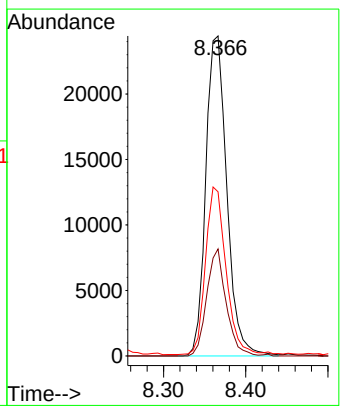
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

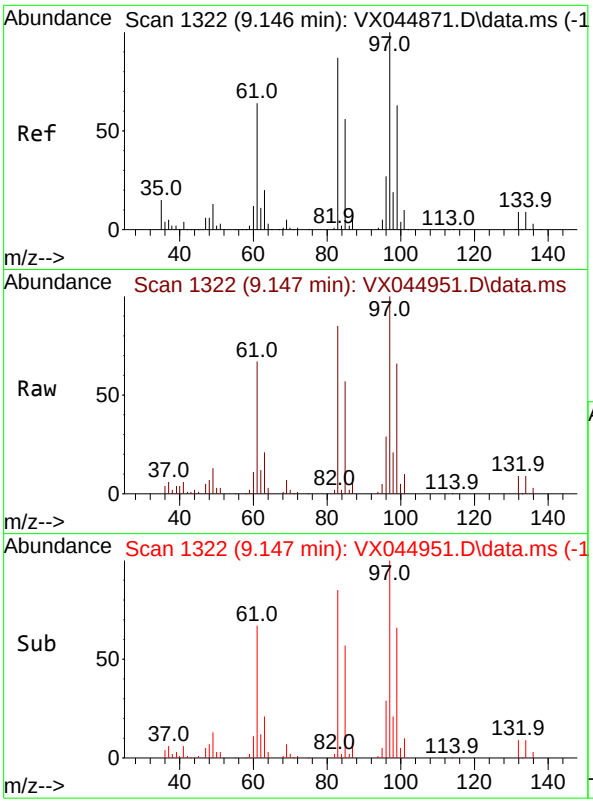


#54
cis-1,3-Dichloropropene
Concen: 20.090 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 43416

Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.3	37.9
39	50.9	40.0	60.0

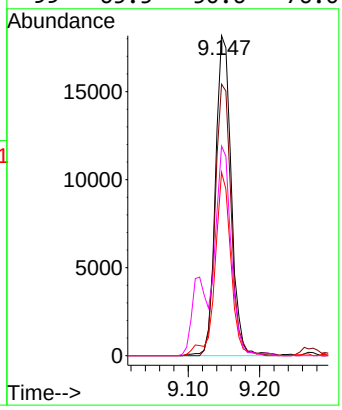




#55
1,1,2-Trichloroethane
Concen: 21.245 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 97 Resp: 2788

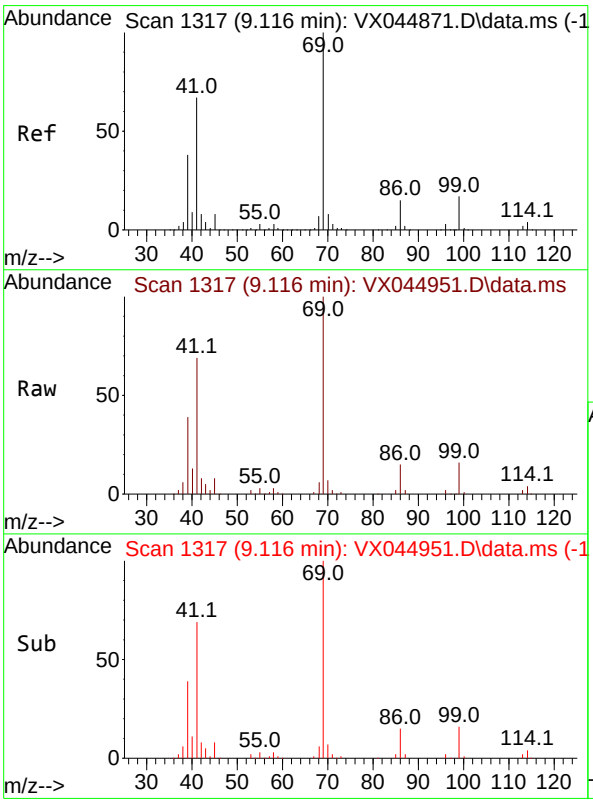
Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.8	104.6
85	57.3	44.8	67.2
99	65.5	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

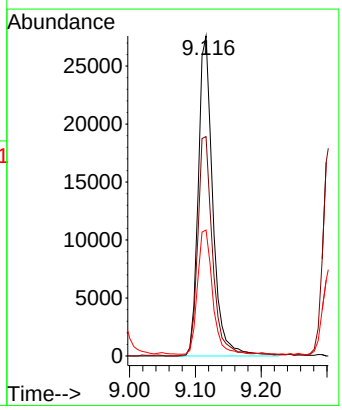
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

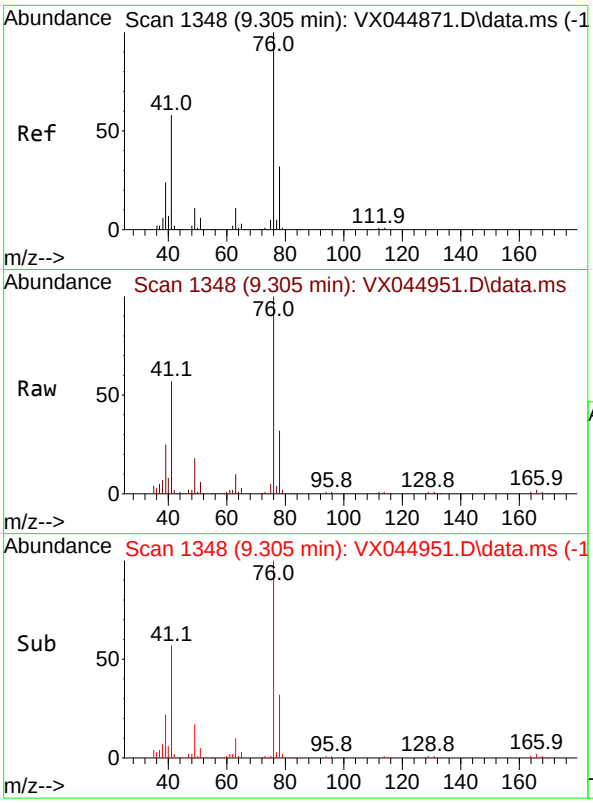


#56
Ethyl methacrylate
Concen: 20.021 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 69 Resp: 42444

Ion	Ratio	Lower	Upper
69	100		
41	70.6	55.2	82.8
39	39.9	30.8	46.2

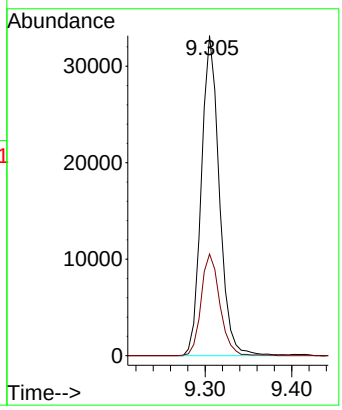




#57
1,3-Dichloropropane
Concen: 20.820 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 76 Resp: 4781

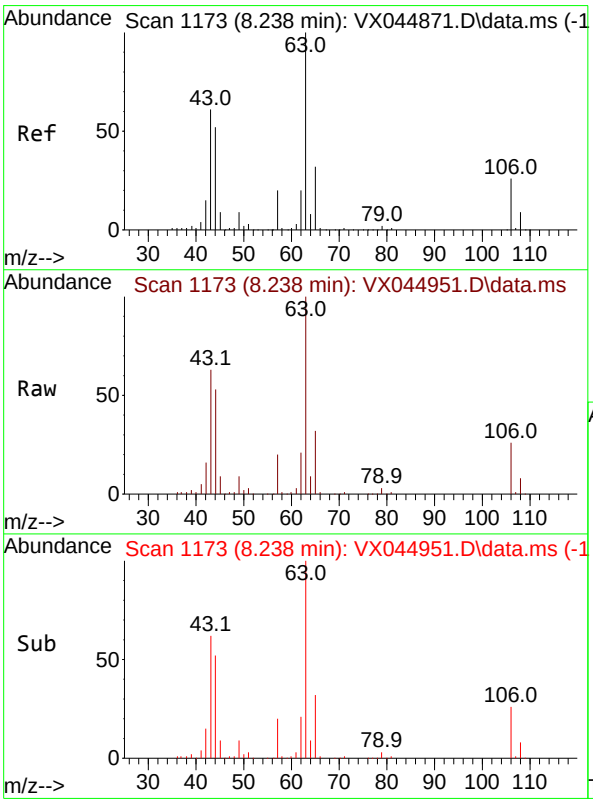
Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.8	38.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

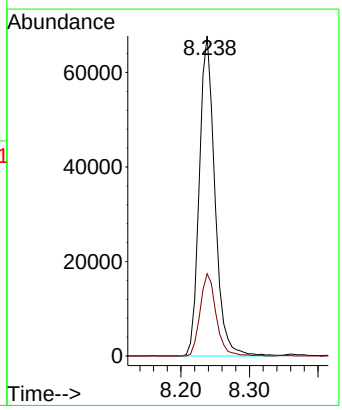
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

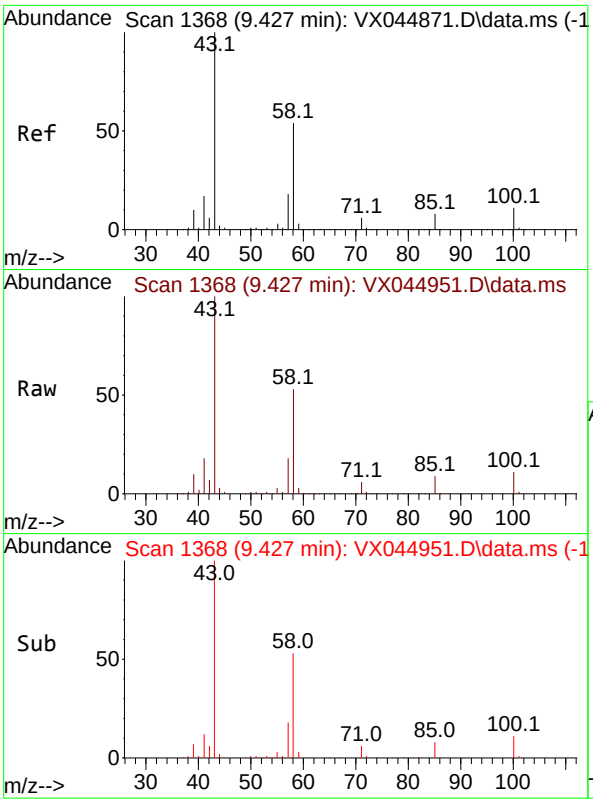


#58
2-Chloroethyl Vinyl ether
Concen: 103.151 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 63 Resp: 107373

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.3	31.9

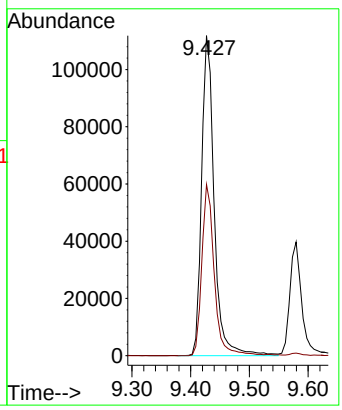




#59
2-Hexanone
Concen: 115.365 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 16665

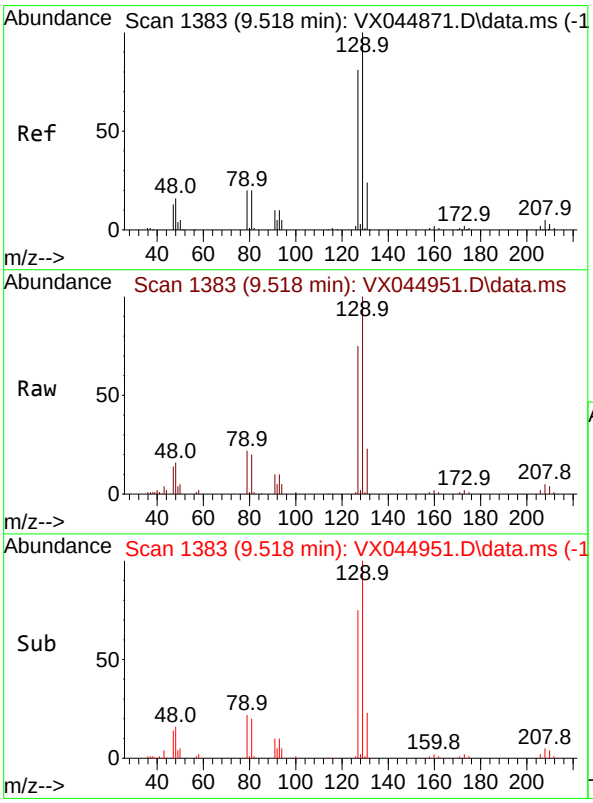
Ion	Ratio	Lower	Upper
43	100		
58	52.8	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

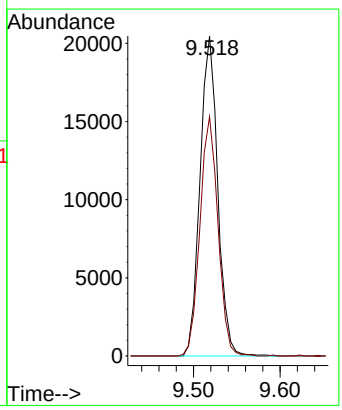
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

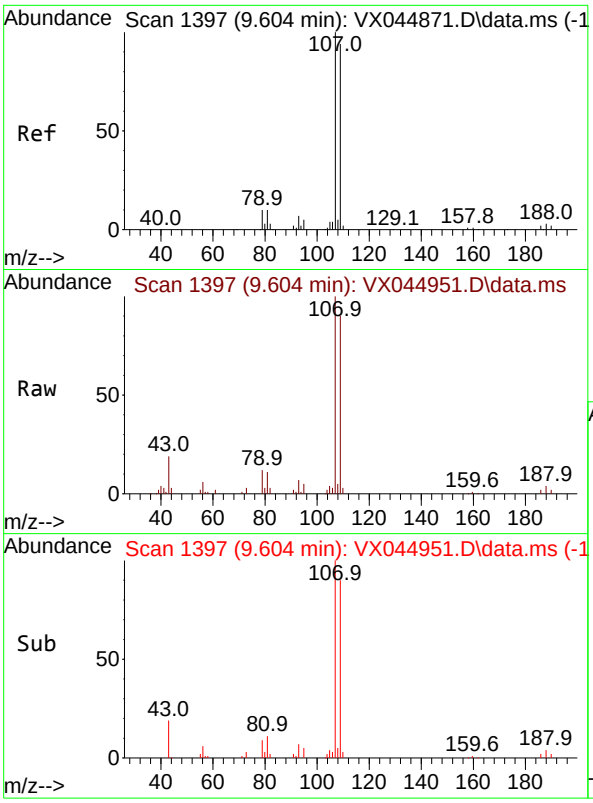


#60
Dibromochloromethane
Concen: 20.721 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:129 Resp: 29087

Ion	Ratio	Lower	Upper
129	100		
127	76.2	39.1	117.3

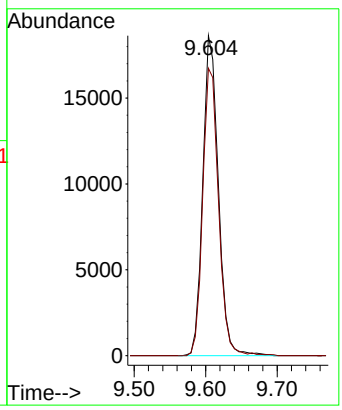




#61
1,2-Dibromoethane
Concen: 21.163 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:107 Resp: 2815

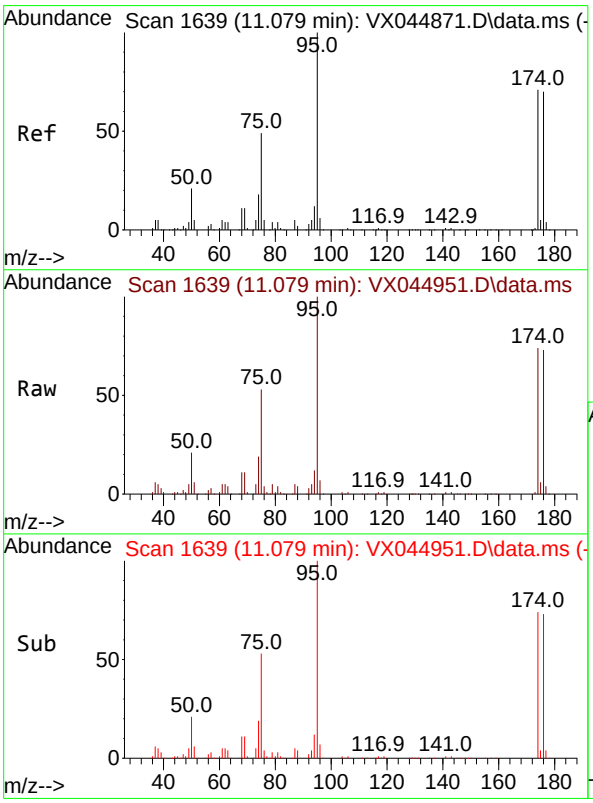
Ion	Ratio	Lower	Upper
107	100		
109	91.6	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

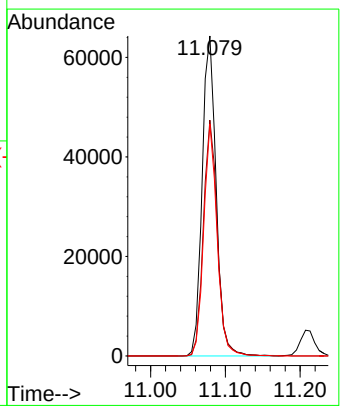
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

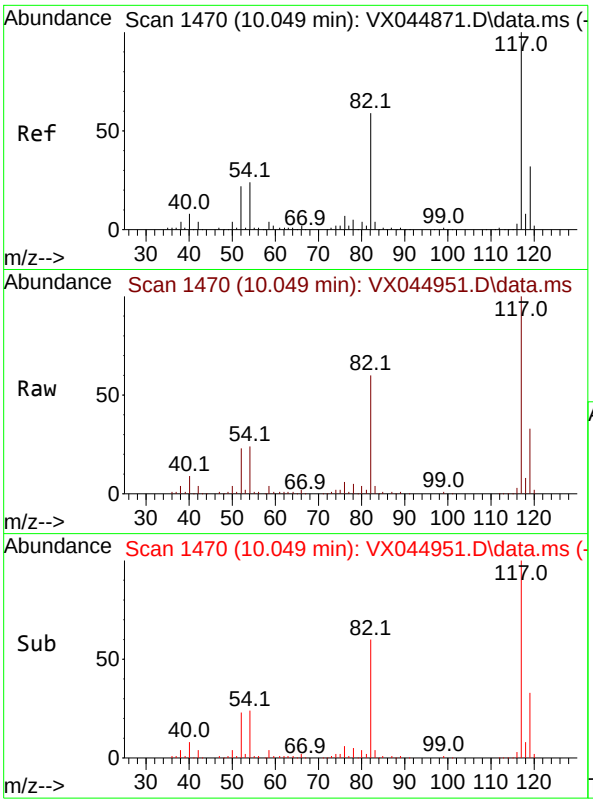


#62
4-Bromofluorobenzene
Concen: 51.472 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 95 Resp: 83506

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	142.6
176	69.6	0.0	141.6

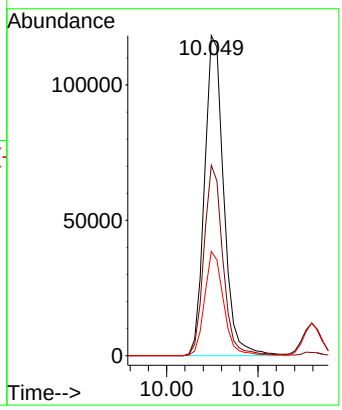




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:117 Resp: 17202

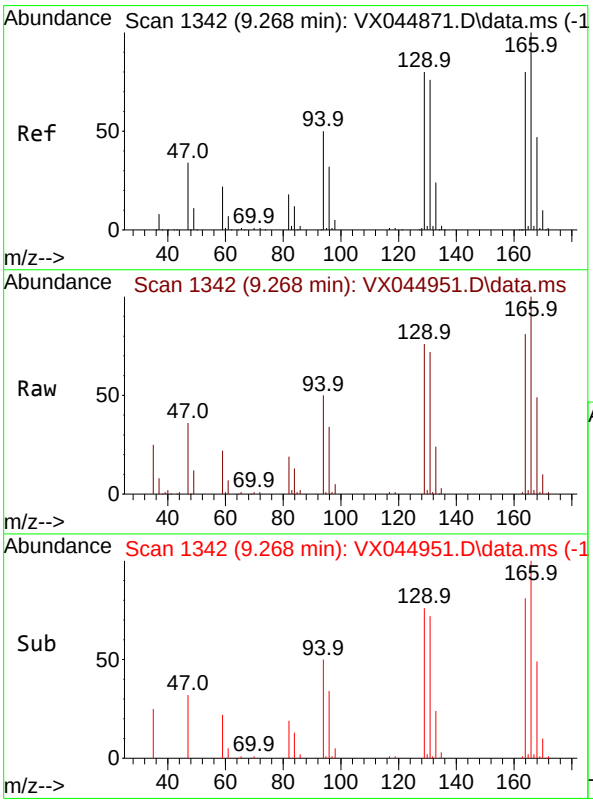
Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.5	71.3
119	32.5	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

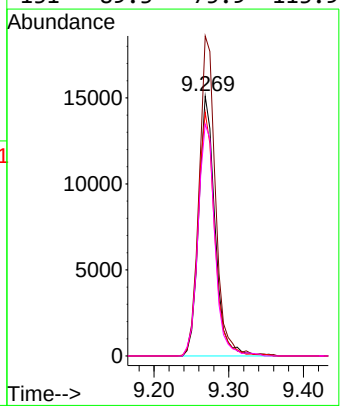
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

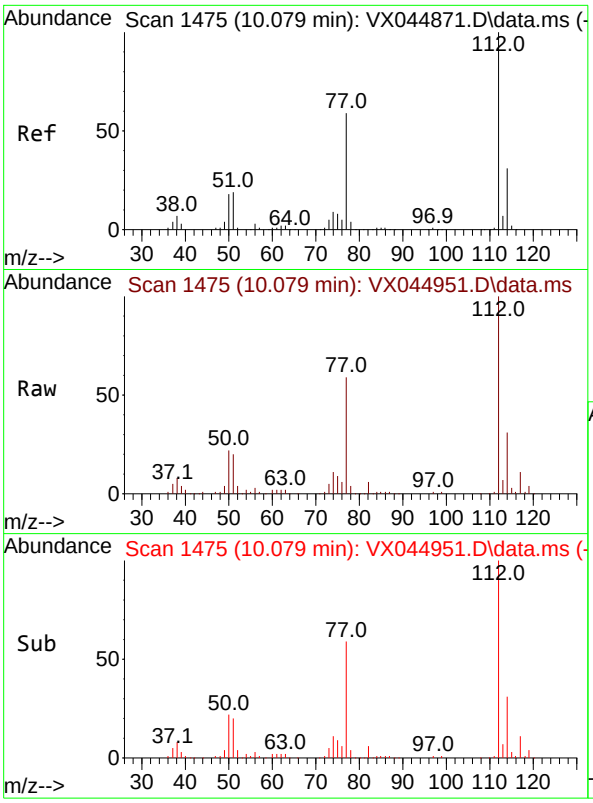


#64
Tetrachloroethene
Concen: 20.951 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:164 Resp: 22728

Ion	Ratio	Lower	Upper
164	100		
166	123.3	100.4	150.6
129	93.7	79.9	119.9
131	89.3	75.9	113.9

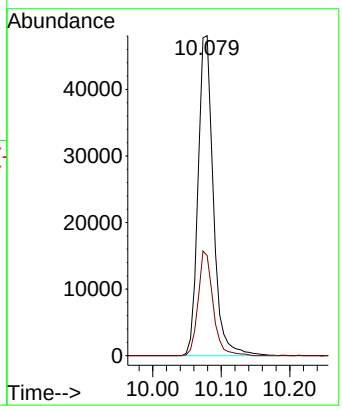




#65
Chlorobenzene
Concen: 20.200 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:112 Resp: 7463

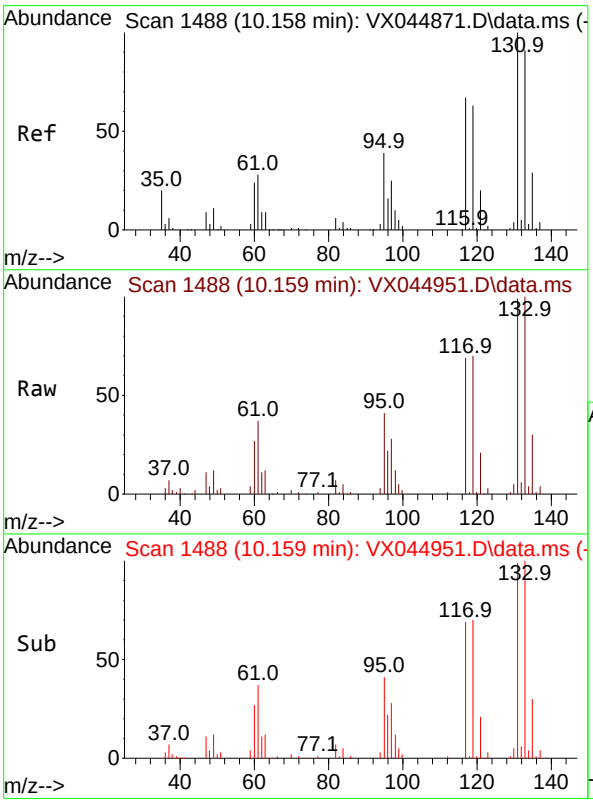
Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

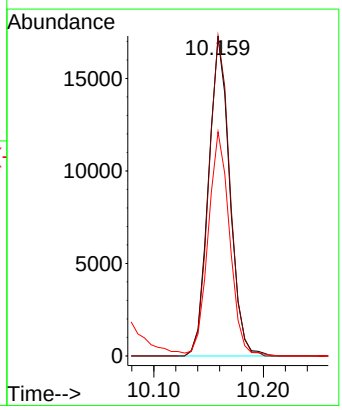
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

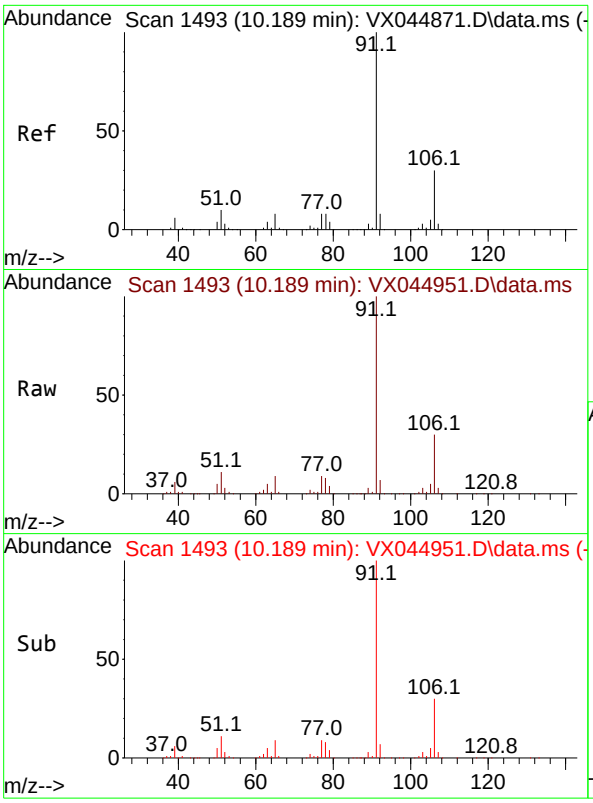


#66
1,1,1,2-Tetrachloroethane
Concen: 19.514 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:131 Resp: 23206

Ion	Ratio	Lower	Upper
131	100		
133	99.9	47.1	141.3
119	70.7	33.6	100.6





#67
Ethyl Benzene
Concen: 20.199 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

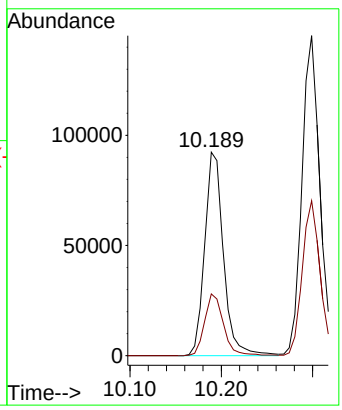
Tgt Ion: 91 Resp: 13169

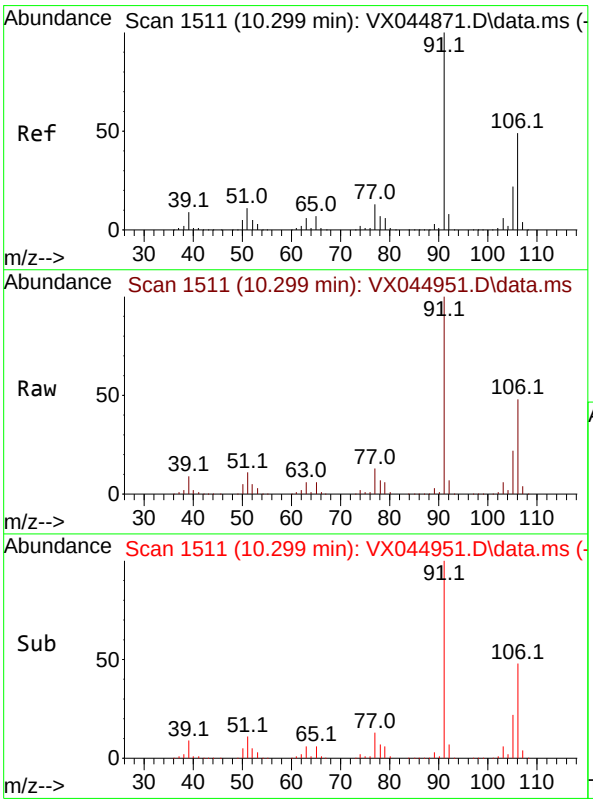
Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

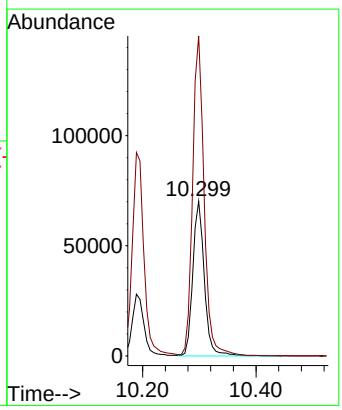


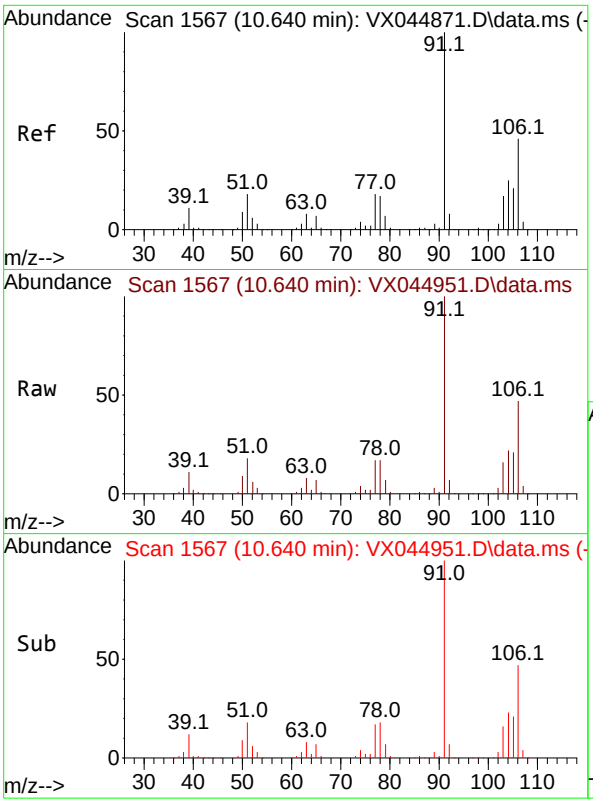


#68
m/p-Xylenes
Concen: 41.113 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:106 Resp: 98883

Ion	Ratio	Lower	Upper
106	100		
91	205.8	164.3	246.5

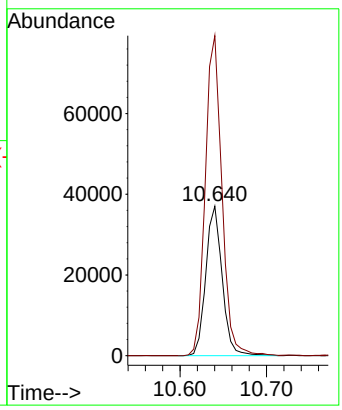




#69
o-Xylene
Concen: 20.177 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:106 Resp: 4869

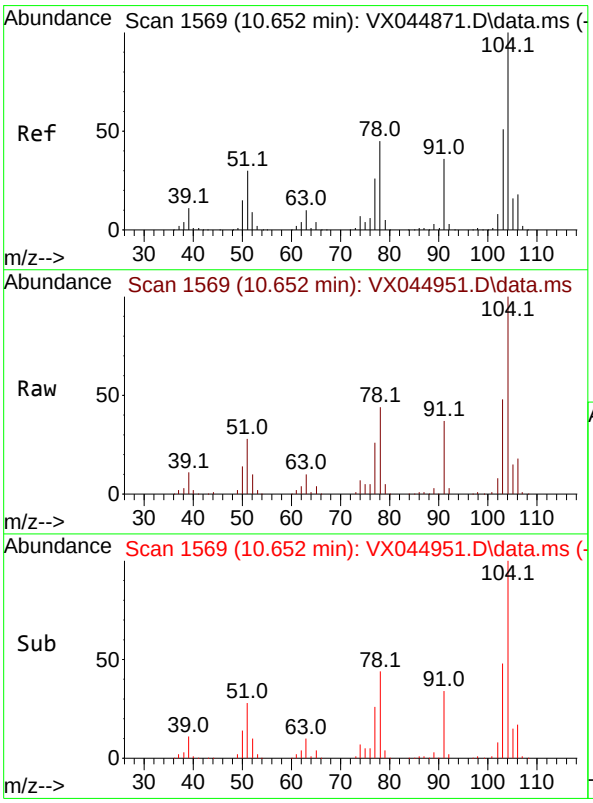
Ion	Ratio	Lower	Upper
106	100		
91	217.1	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

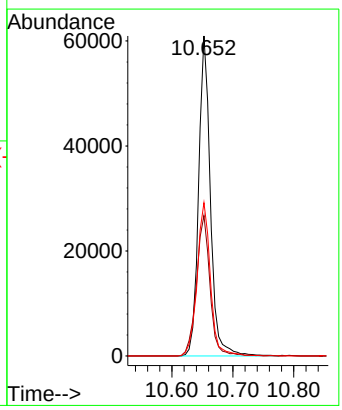
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

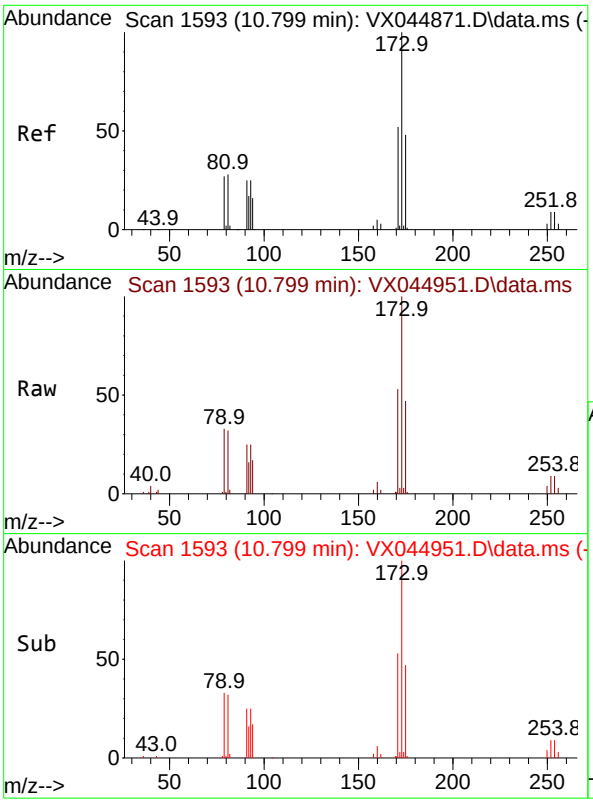


#70
Styrene
Concen: 21.020 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:104 Resp: 81730

Ion	Ratio	Lower	Upper
104	100		
78	50.5	40.5	60.7
103	54.2	43.6	65.4

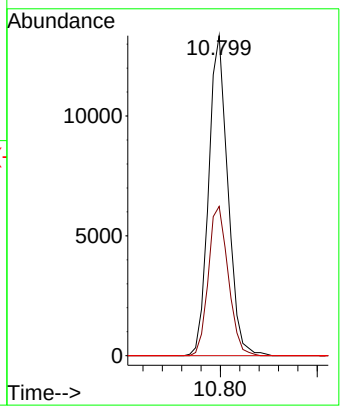




#71
Bromoform
Concen: 20.750 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:173 Resp: 1841

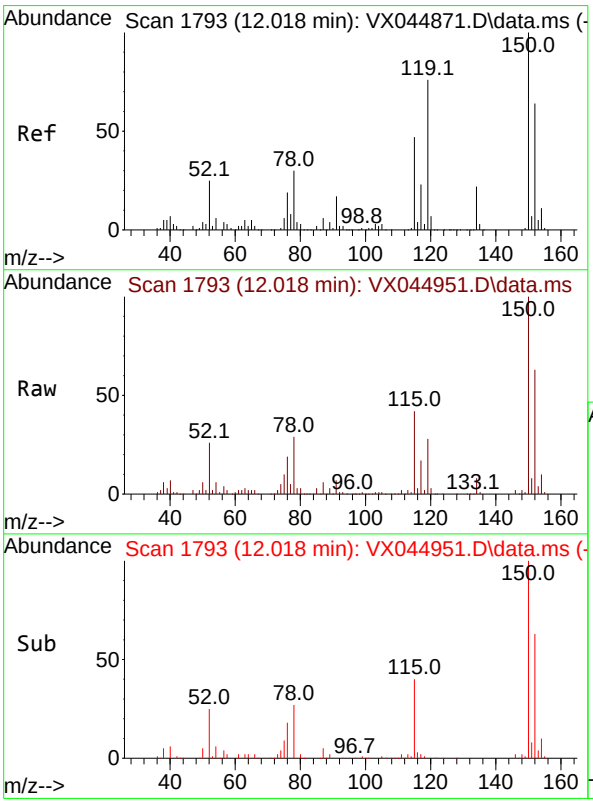
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

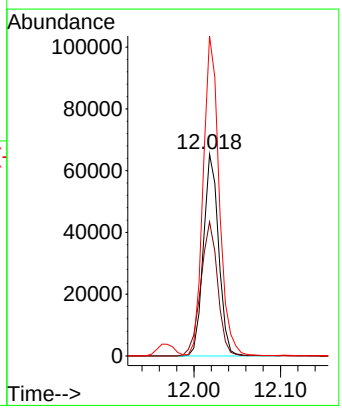
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

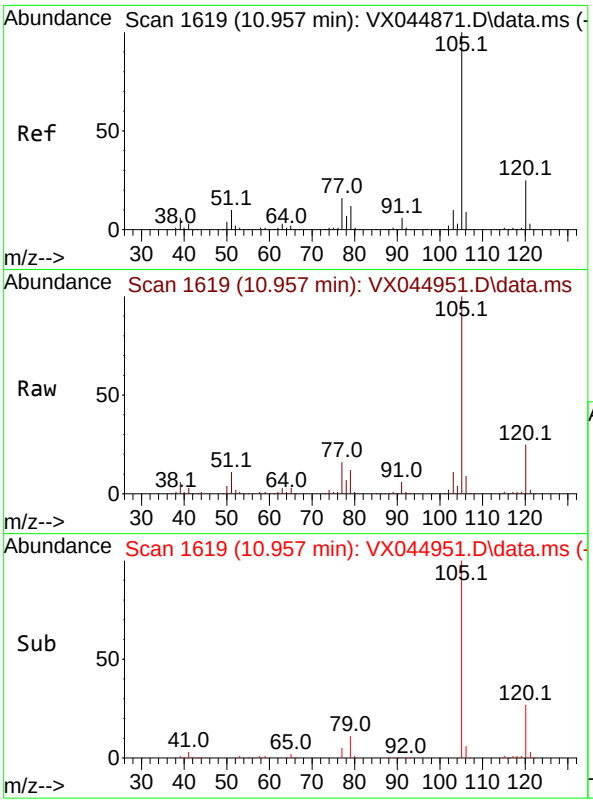


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:152 Resp: 79806

Ion	Ratio	Lower	Upper
152	100		
115	73.4	43.4	130.1
150	165.9	0.0	350.4

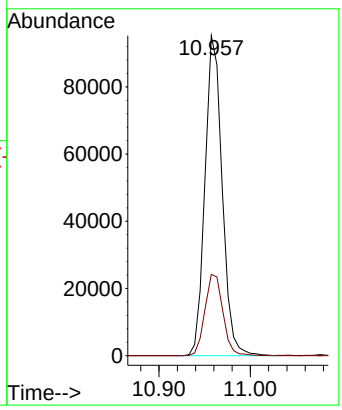




#73
Isopropylbenzene
Concen: 19.326 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:105 Resp: 12418

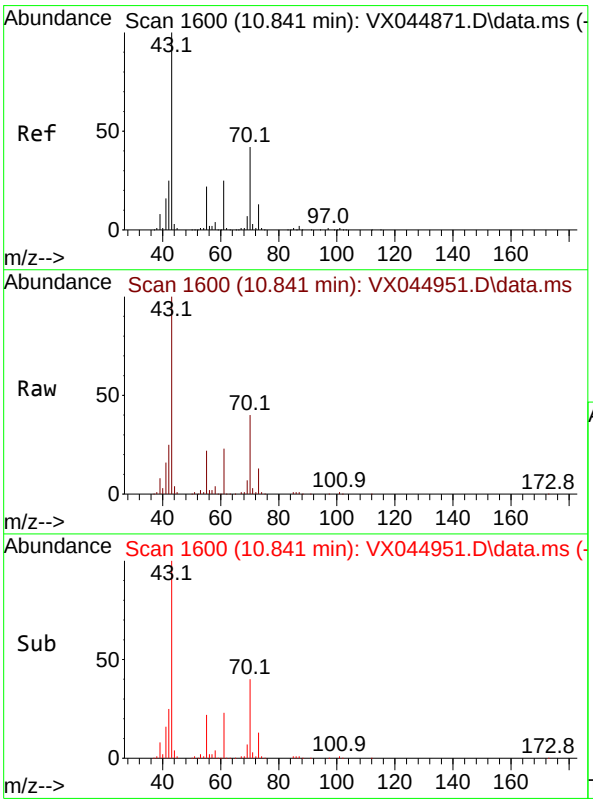
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

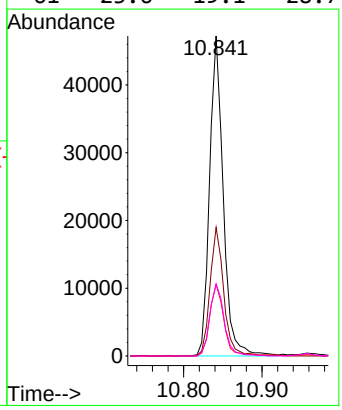
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

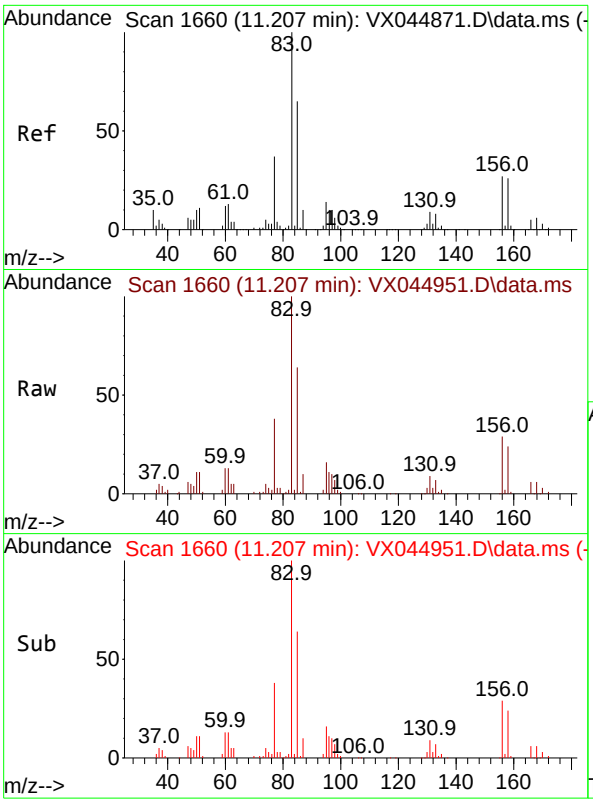


#74
N-amyl acetate
Concen: 19.677 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 57217

Ion	Ratio	Lower	Upper
43	100		
70	40.2	33.7	50.5
55	23.2	18.6	27.8
61	23.6	19.1	28.7

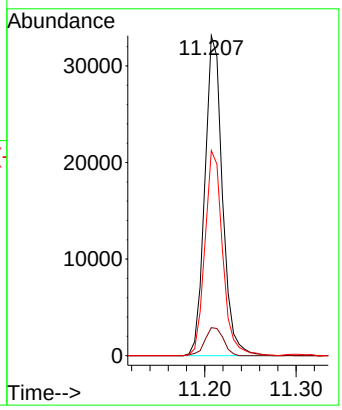




#75
1,1,2,2-Tetrachloroethane
Concen: 19.979 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 83 Resp: 4411

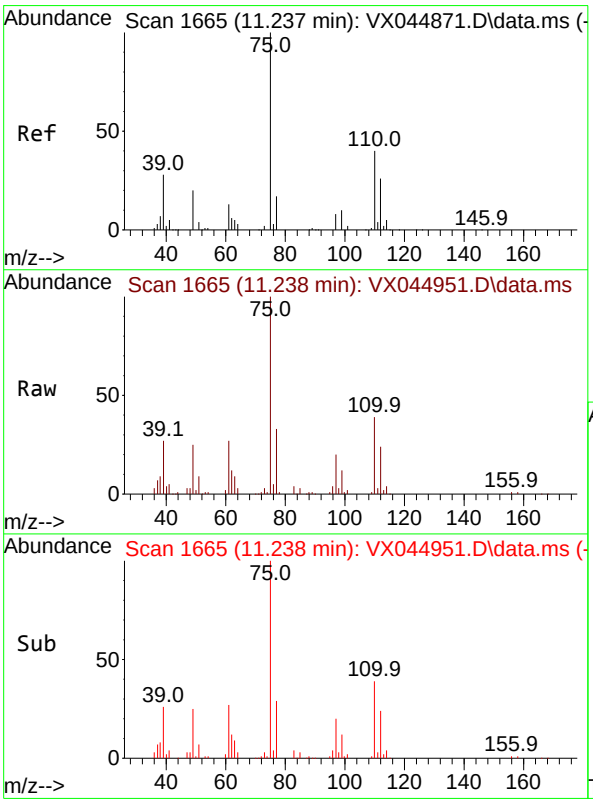
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.5
85	64.5	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

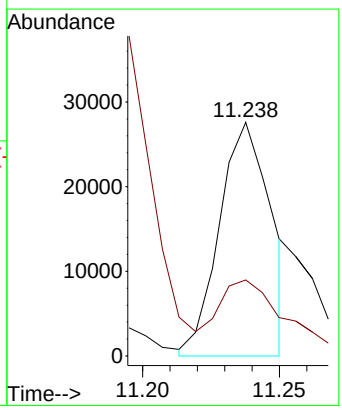
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

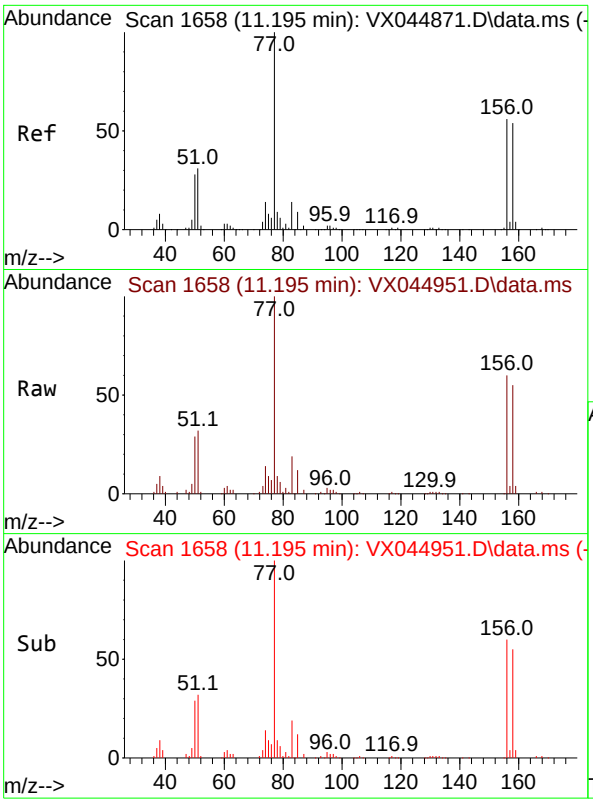


#76
1,2,3-Trichloropropane
Concen: 20.404 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 36103

Ion	Ratio	Lower	Upper
75	100		
77	43.2	21.9	65.7

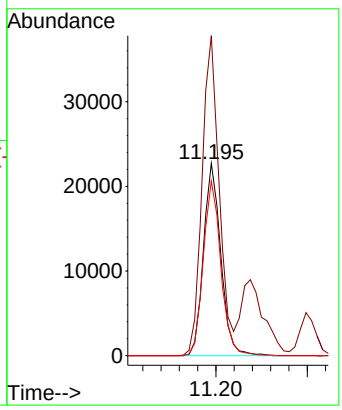




#77
Bromobenzene
Concen: 20.519 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:156 Resp: 2989

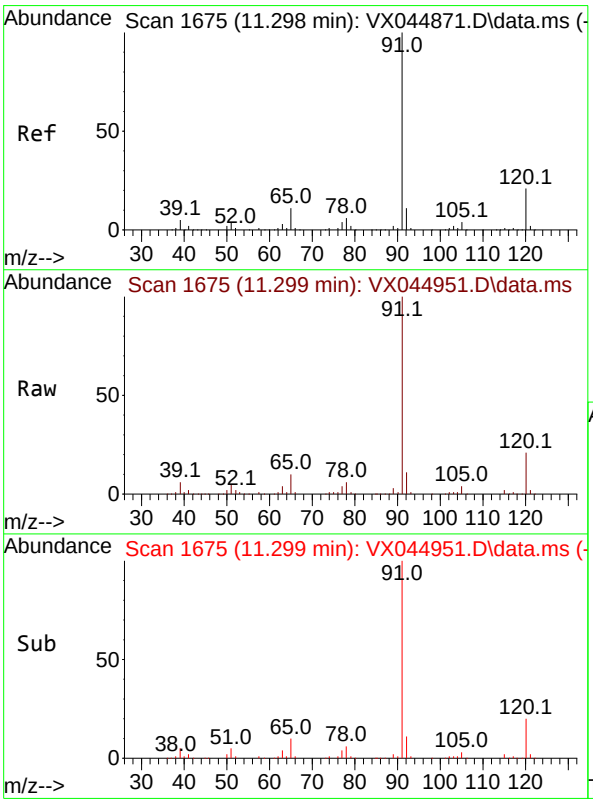
Ion	Ratio	Lower	Upper
156	100		
77	164.5	88.4	265.3
158	92.2	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

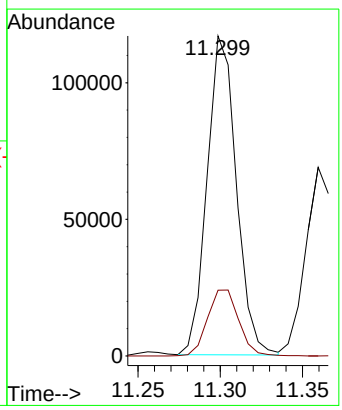
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

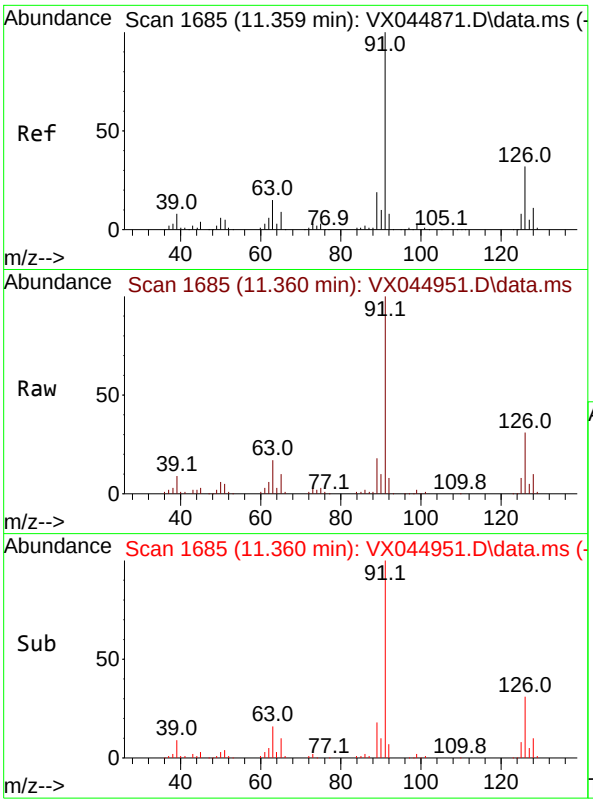


#78
n-propylbenzene
Concen: 19.510 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 91 Resp: 144703

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3

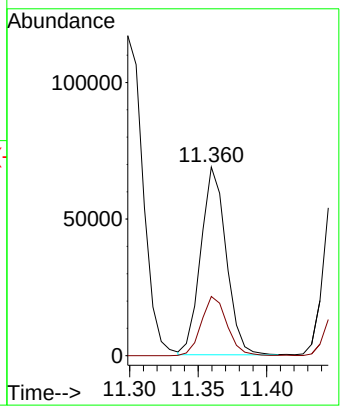




#79
2-Chlorotoluene
Concen: 19.454 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 91 Resp: 8867

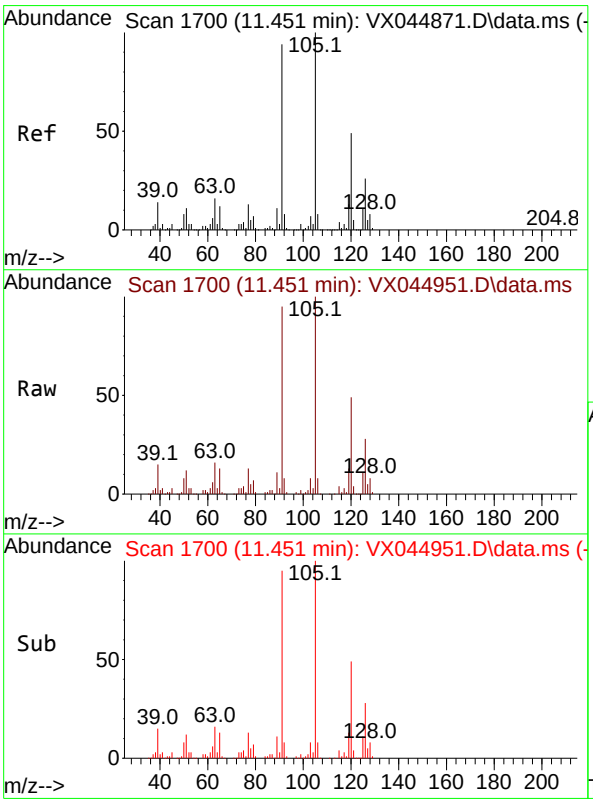
Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

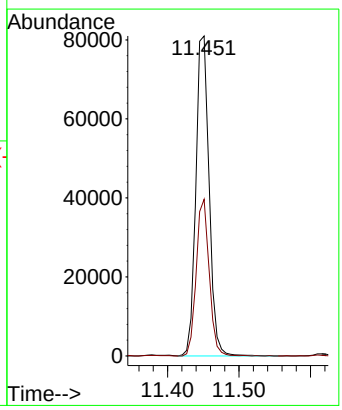
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

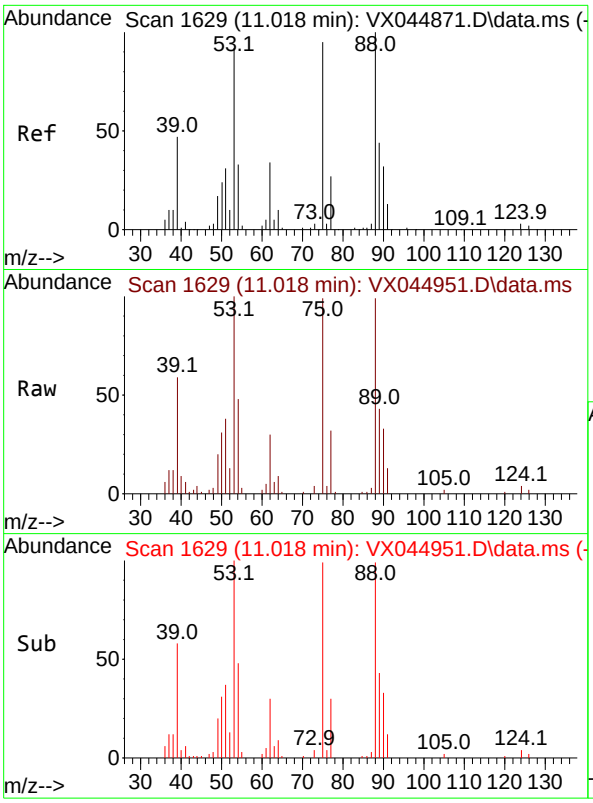


#80
1,3,5-Trimethylbenzene
Concen: 19.987 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:105 Resp: 104223

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 16.914 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

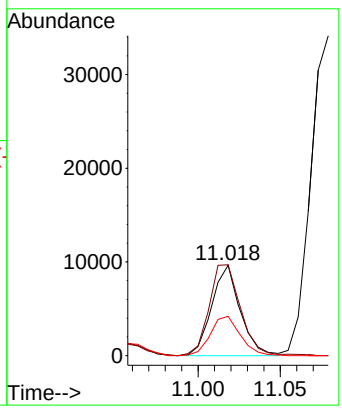
Tgt Ion: 75 Resp: 1163

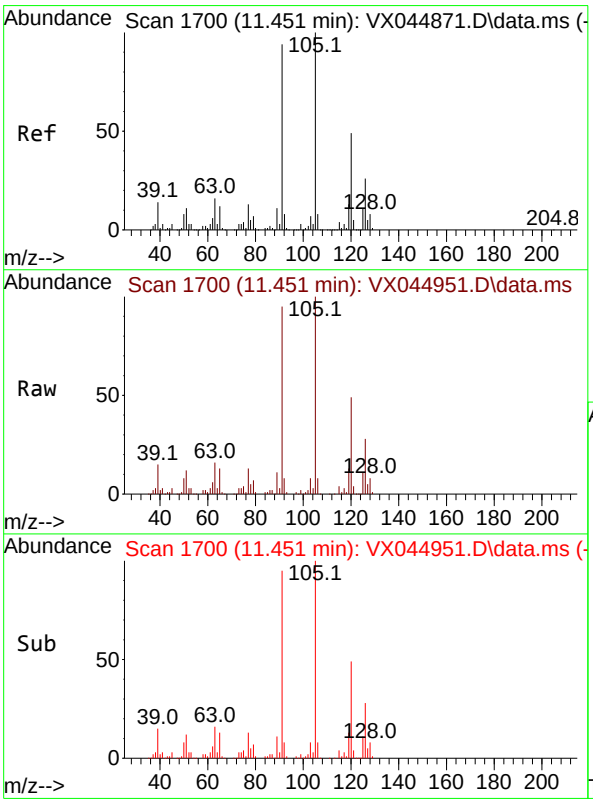
Ion	Ratio	Lower	Upper
75	100		
53	111.0	78.0	117.0
89	45.9	36.6	54.8

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

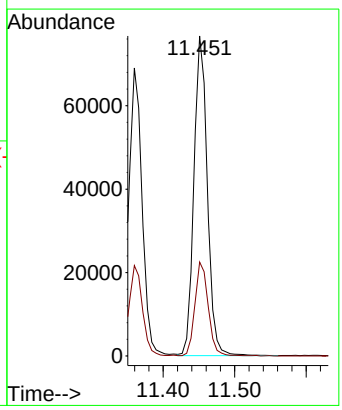


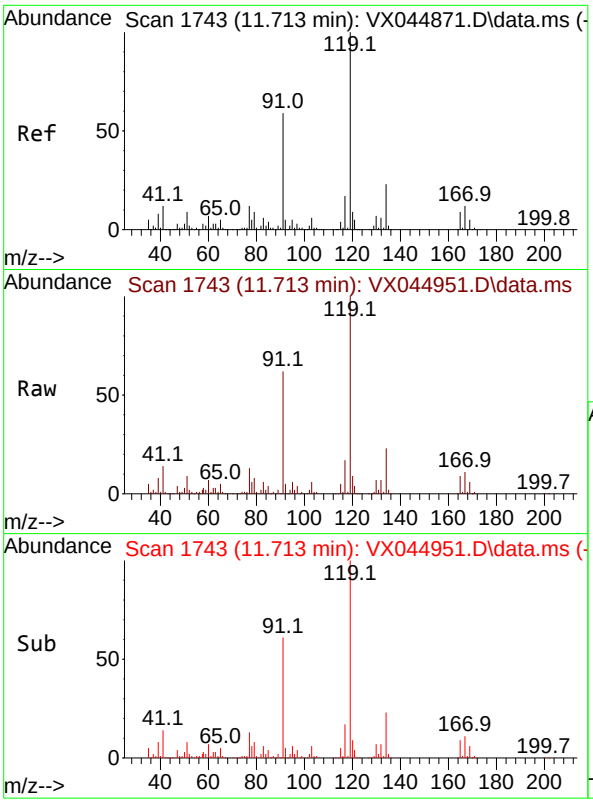


#82
4-Chlorotoluene
Concen: 19.736 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 91 Resp: 99533

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6

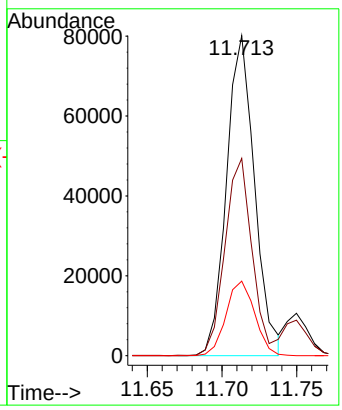




#83
tert-Butylbenzene
Concen: 19.838 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:119 Resp: 10465

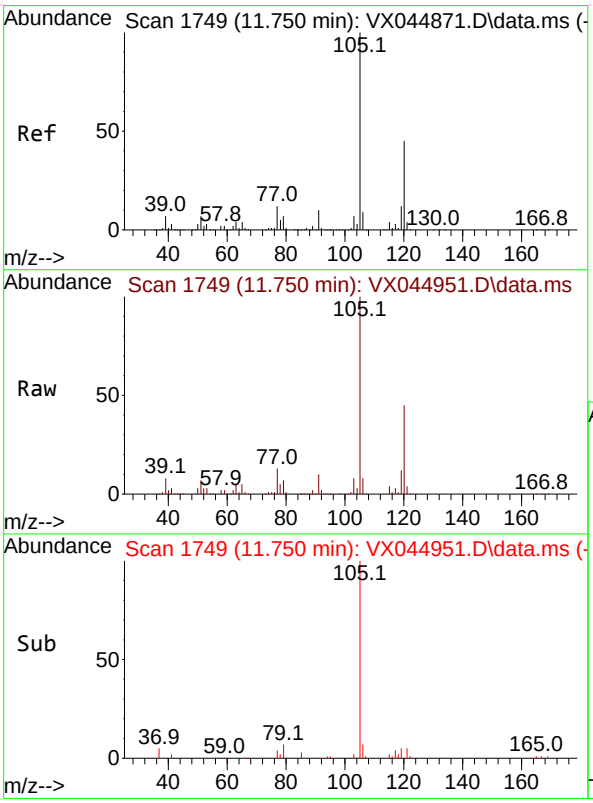
Ion	Ratio	Lower	Upper
119	100		
91	59.1	29.1	87.4
134	23.8	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

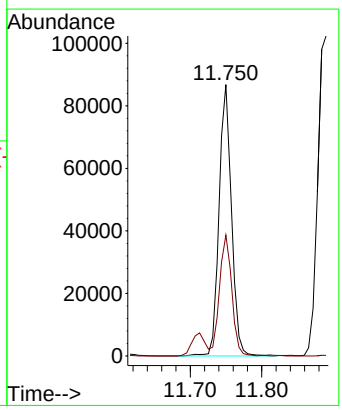
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

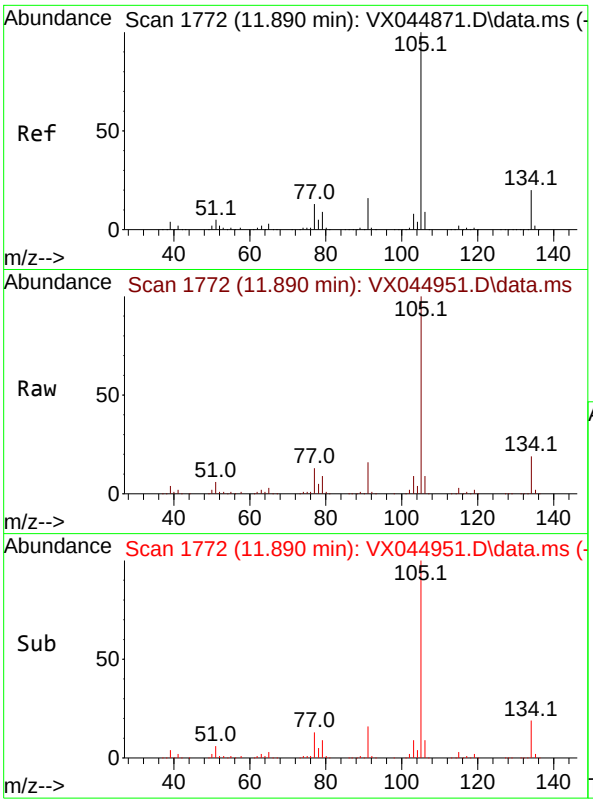


#84
1,2,4-Trimethylbenzene
Concen: 20.366 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:105 Resp: 104819

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.4	67.0





#85
sec-Butylbenzene
Concen: 20.130 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

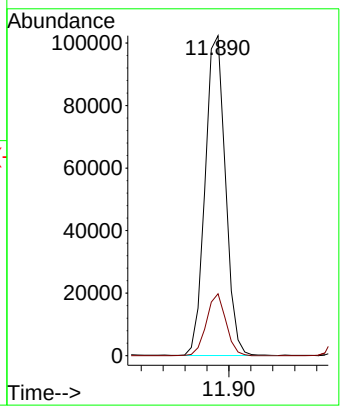
Tgt Ion:105 Resp: 13149

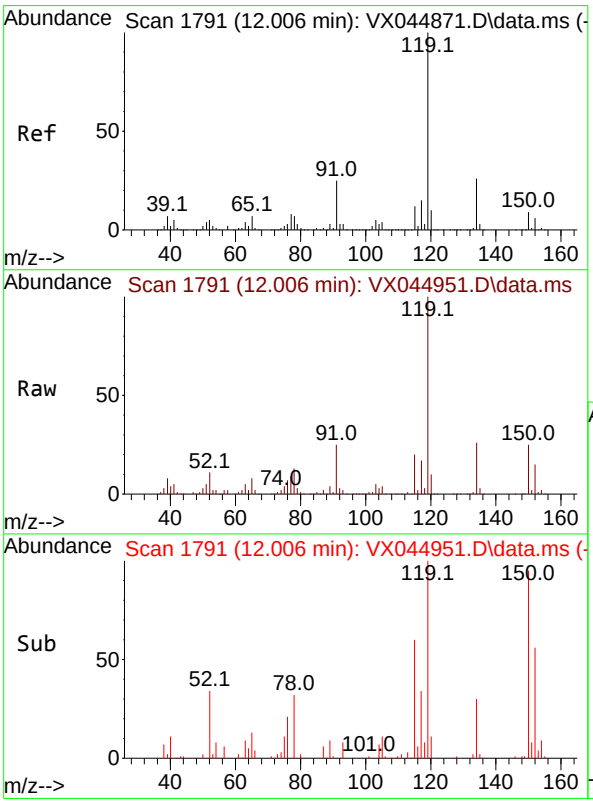
Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.3

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

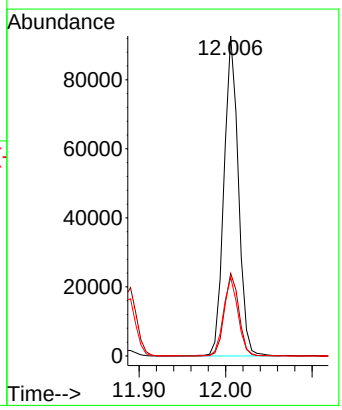


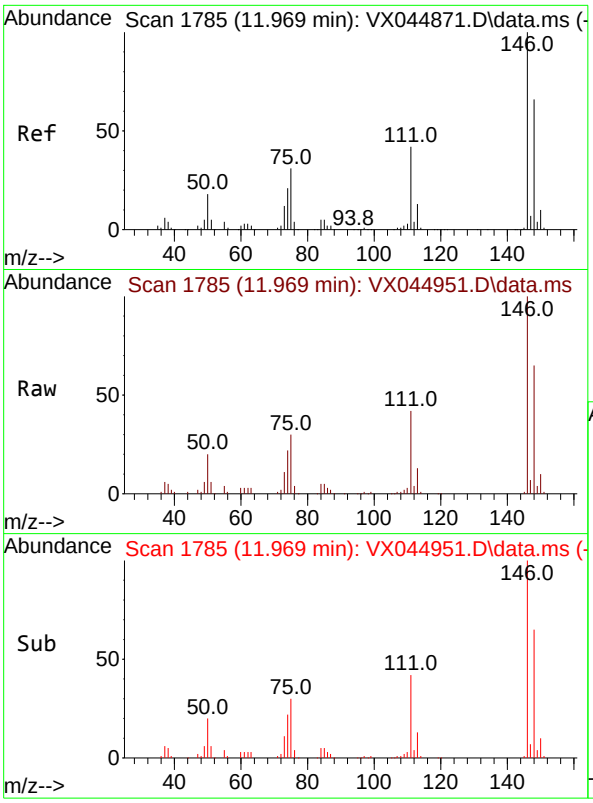


#86
p-Isopropyltoluene
Concen: 20.351 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:119 Resp: 106908

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	25.0	12.1	36.3

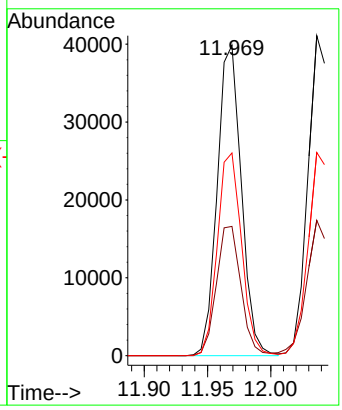




#87
1,3-Dichlorobenzene
Concen: 19.704 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:146 Resp: 5278

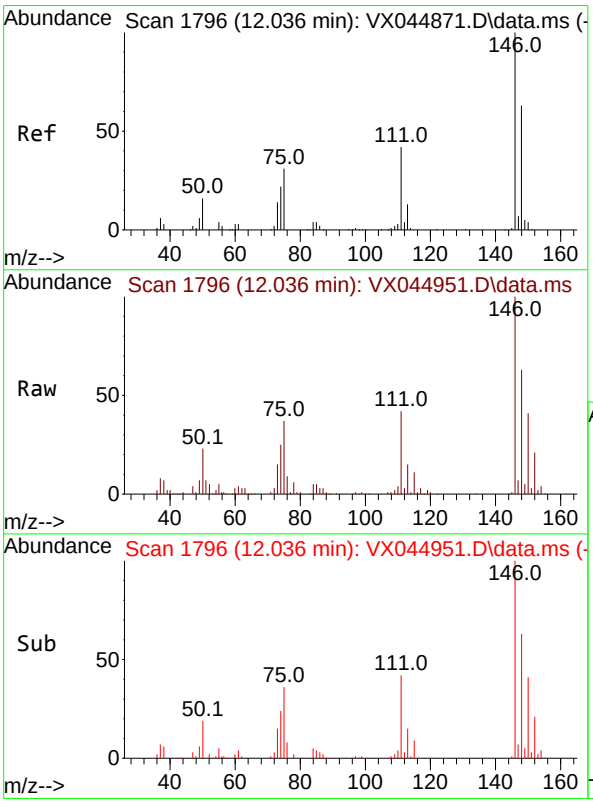
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	65.7	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

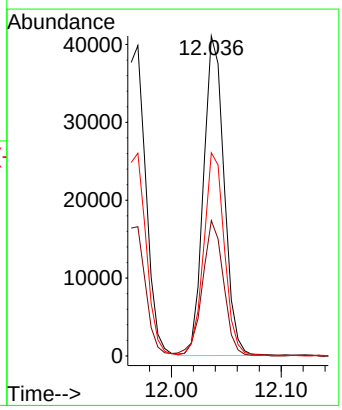
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

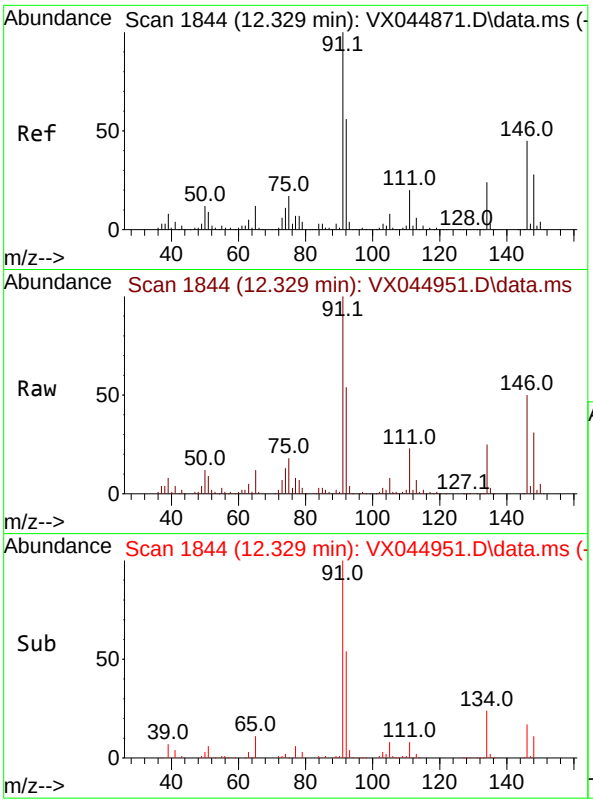


#88
1,4-Dichlorobenzene
Concen: 19.722 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:146 Resp: 53421

Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.4	61.3
148	64.7	32.0	96.0

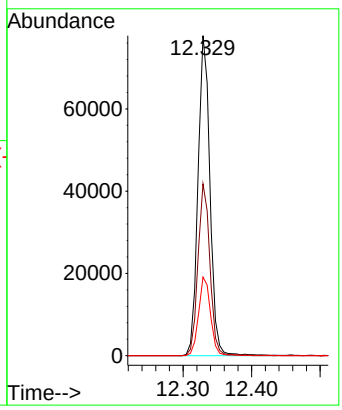




#89
n-Butylbenzene
Concen: 20.347 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 91 Resp: 9456

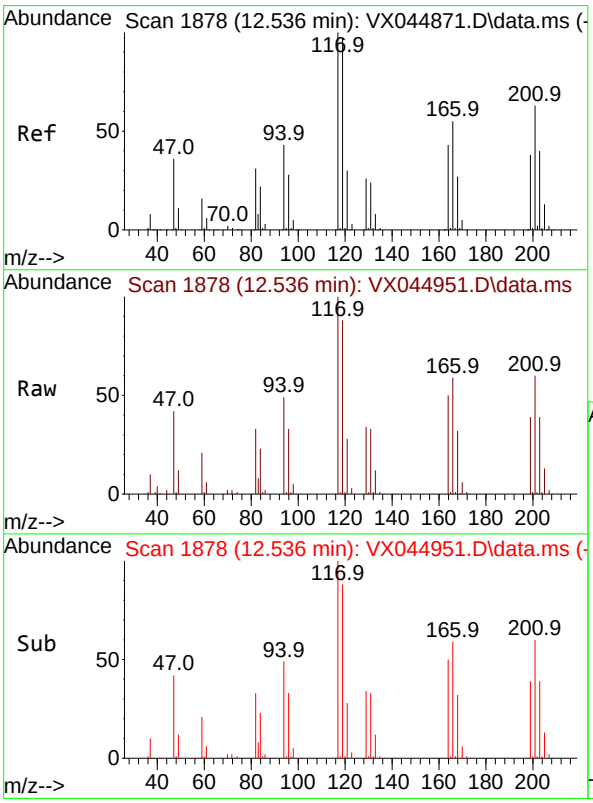
Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.2	81.6
134	24.6	12.1	36.3



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations
APPROVED

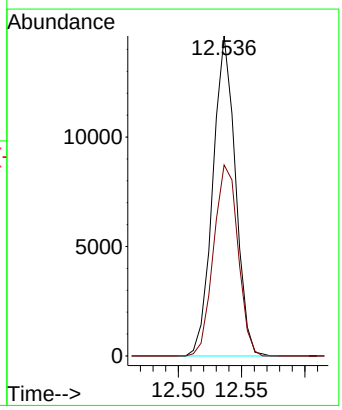
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

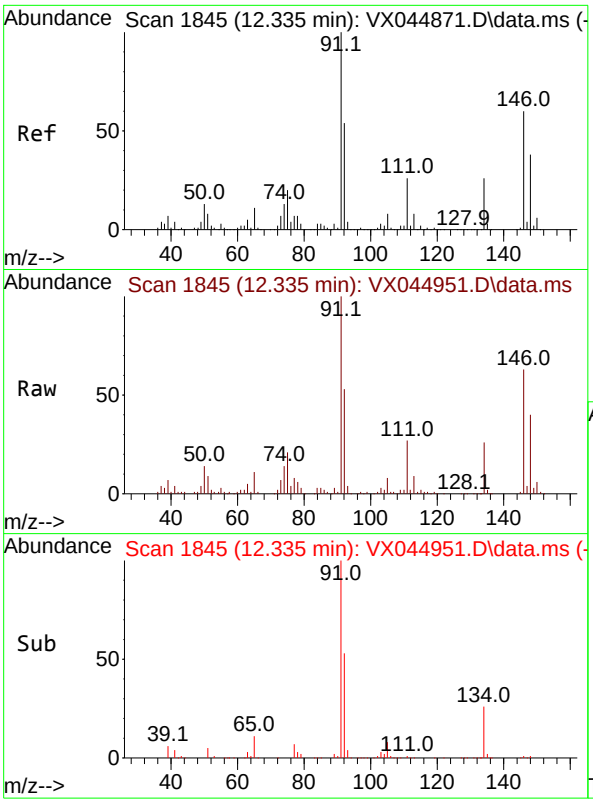


#90
Hexachloroethane
Concen: 18.433 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:117 Resp: 18131

Ion	Ratio	Lower	Upper
117	100		
201	64.5	32.5	97.5

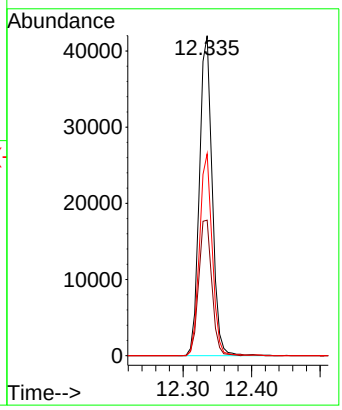




#91
1,2-Dichlorobenzene
Concen: 20.701 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:146 Resp: 5450

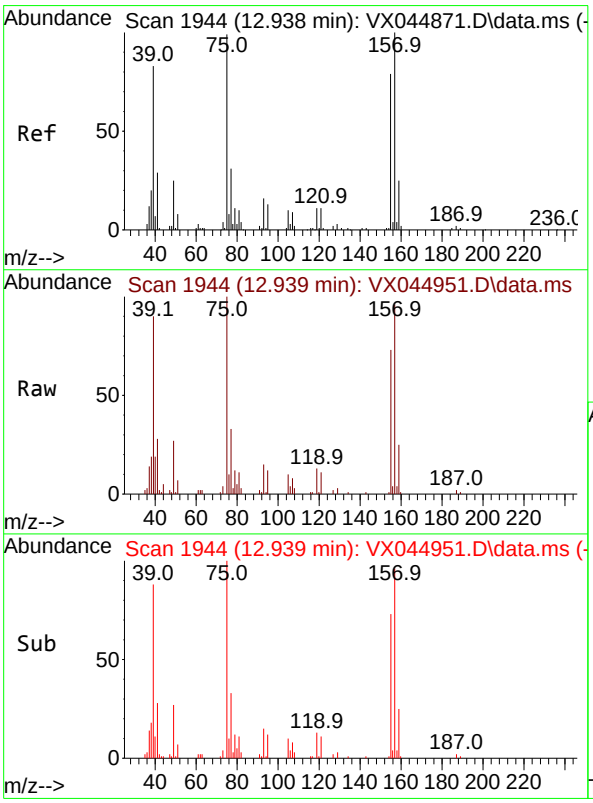
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.8	65.4
148	62.8	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

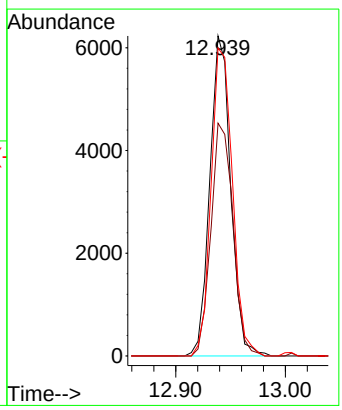
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

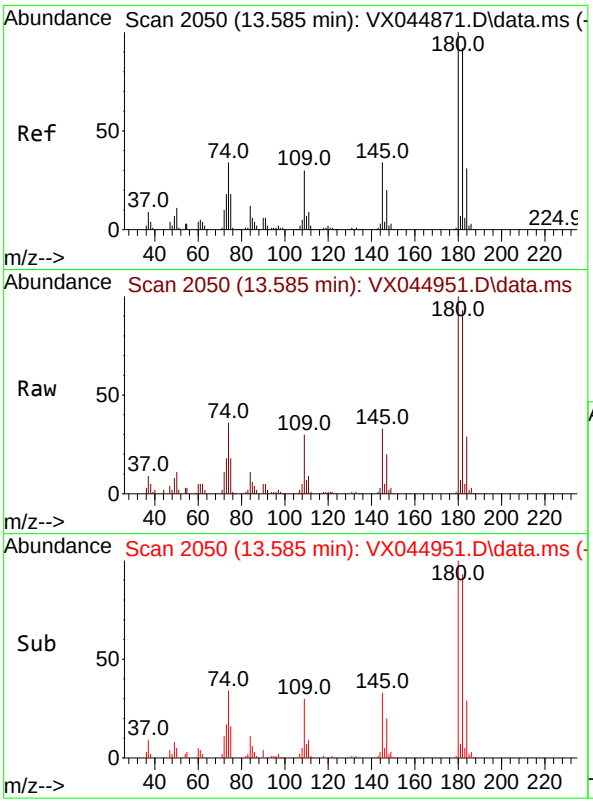


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.471 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 8250

Ion	Ratio	Lower	Upper
75	100		
155	76.7	40.5	121.4
157	98.5	51.4	154.3

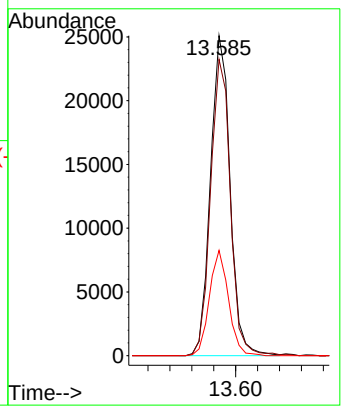




#93
1,2,4-Trichlorobenzene
Concen: 19.589 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:180 Resp: 3121

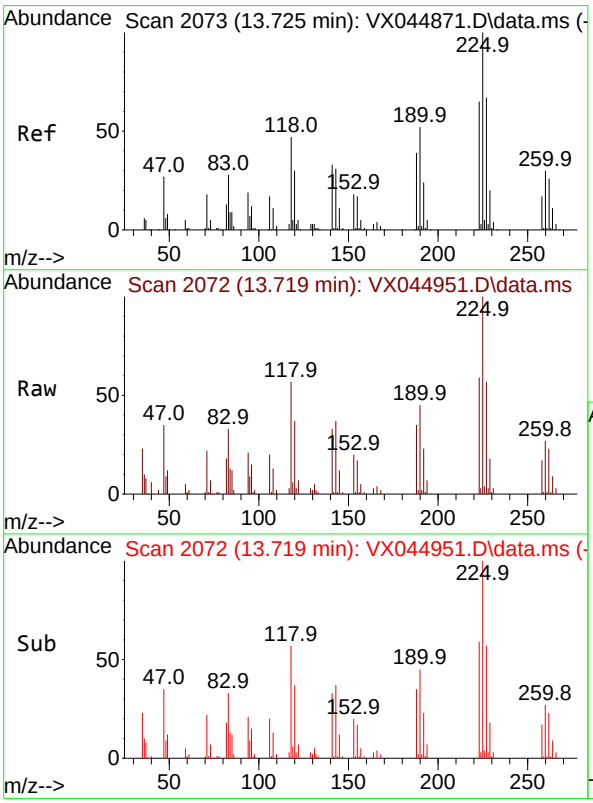
Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	32.0	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

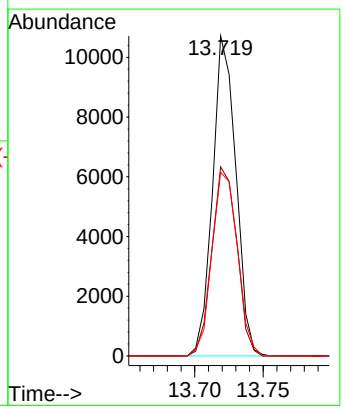
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

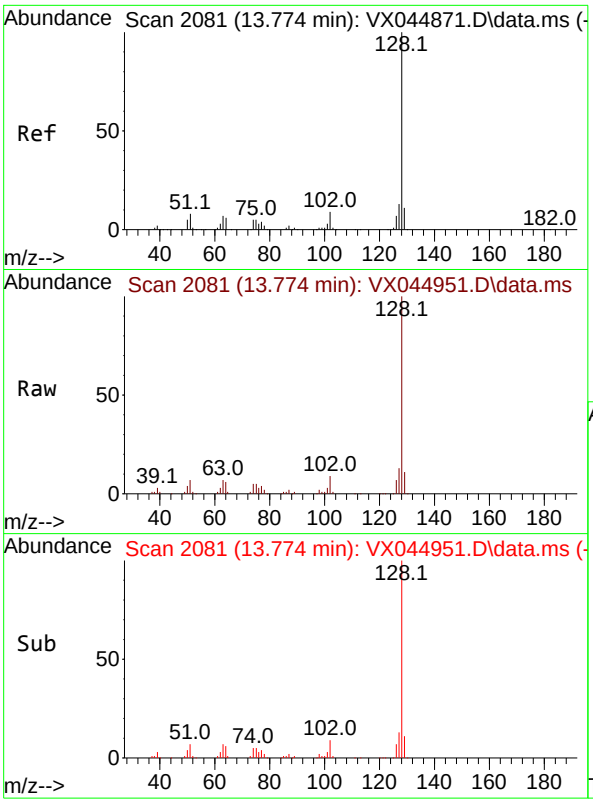


#94
Hexachlorobutadiene
Concen: 20.018 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:225 Resp: 12661

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.4	94.2
227	63.0	32.3	96.8

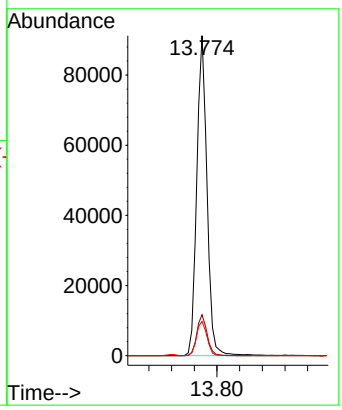




#95
Naphthalene
Concen: 19.835 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:128 Resp: 11423

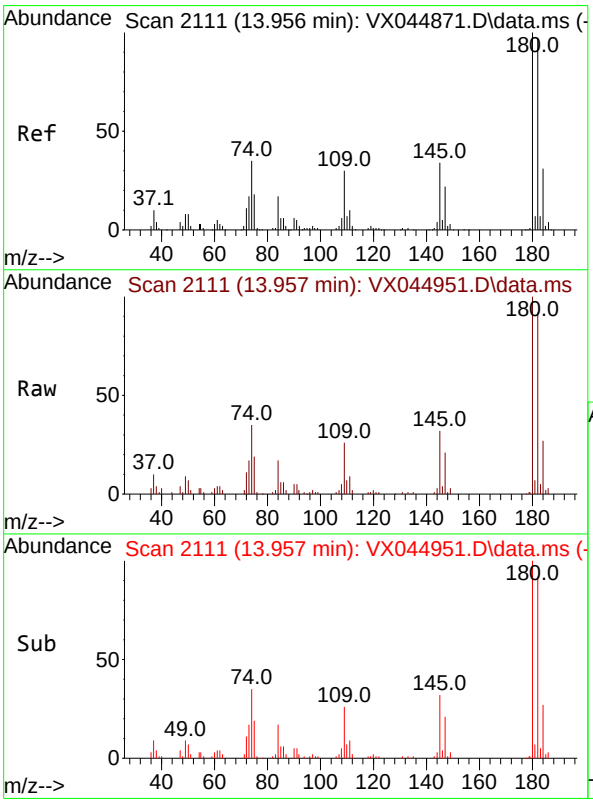
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.9	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Manual Integrations APPROVED

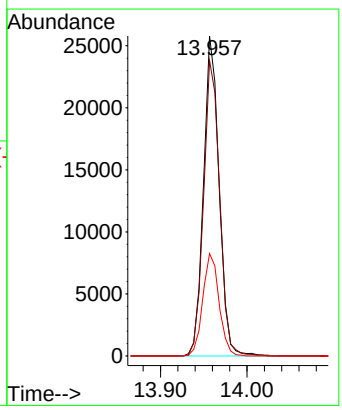
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.099 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:180 Resp: 32268

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.9	143.6
145	33.4	17.1	51.3



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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	VX0214WBSD01	SDG No.:	Q1352
Lab Sample ID:	VX0214WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044952.D	1		02/14/25 11:40	VX021425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	17.6		0.34	0.75	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.26	0.75	1.00	ug/L
78-93-3	2-Butanone	110		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	0.50	1.00	ug/L
67-66-3	Chloroform	20.0		0.26	0.50	1.00	ug/L
71-43-2	Benzene	19.6		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.4		0.32	0.75	1.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.0		0.13	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.1		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	49.8		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	104000	5.544				
540-36-3	1,4-Difluorobenzene	185000	6.757				
3114-55-4	Chlorobenzene-d5	165000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	77800	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044952.D
Acq On : 14 Feb 2025 11:40
Operator : JC/MD
Sample : VX0214WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 22:12:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	103875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	184991	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	164889	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	77784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	77707	51.105	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.200%			
35) Dibromofluoromethane	5.379	113	60838	50.582	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.160%			
50) Toluene-d8	8.647	98	226624	49.828	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.660%			
62) 4-Bromofluorobenzene	11.079	95	81007	52.833	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27927	19.169	ug/l	99
3) Chloromethane	1.301	50	32990	18.605	ug/l	96
4) Vinyl Chloride	1.374	62	30252	17.611	ug/l	100
5) Bromomethane	1.593	94	11122	21.636	ug/l	97
6) Chloroethane	1.666	64	16528	22.848	ug/l	100
7) Trichlorofluoromethane	1.874	101	42055	19.359	ug/l	98
8) Diethyl Ether	2.130	74	15615	19.820	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	26009	19.816	ug/l	99
10) Methyl Iodide	2.447	142	32276	18.974	ug/l	97
11) Tert butyl alcohol	2.971	59	29076	103.075	ug/l	99
12) 1,1-Dichloroethene	2.313	96	24273	18.130	ug/l	97
13) Acrolein	2.233	56	31135	106.978	ug/l	98
14) Allyl chloride	2.660	41	45037	18.613	ug/l	98
15) Acrylonitrile	3.062	53	78868	104.716	ug/l	99
16) Acetone	2.380	43	64564	105.623	ug/l	96
17) Carbon Disulfide	2.508	76	60307	16.426	ug/l	100
18) Methyl Acetate	2.697	43	41481	21.504	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	84252	19.778	ug/l	99
20) Methylene Chloride	2.782	84	28525	19.052	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	24497	18.590	ug/l	100
22) Diisopropyl ether	3.757	45	91929	20.082	ug/l	94
23) Vinyl Acetate	3.715	43	372164	99.722	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50075	19.550	ug/l	99
25) 2-Butanone	4.556	43	105945	106.736	ug/l	97
26) 2,2-Dichloropropane	4.465	77	37106	18.267	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	30448	19.237	ug/l	99
28) Bromochloromethane	4.891	49	22191	18.027	ug/l	100
29) Tetrahydrofuran	5.001	42	68840	104.445	ug/l	99
30) Chloroform	5.093	83	49641	19.984	ug/l	96
31) Cyclohexane	5.458	56	44062	18.660	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	40495	19.219	ug/l	98
36) 1,1-Dichloropropene	5.684	75	32376	18.658	ug/l	99
37) Ethyl Acetate	4.715	43	40204	20.830	ug/l	99
38) Carbon Tetrachloride	5.666	117	33498	19.700	ug/l	93
39) Methylcyclohexane	7.373	83	44129	19.671	ug/l	98
40) Benzene	6.031	78	106024	19.567	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044952.D
Acq On : 14 Feb 2025 11:40
Operator : JC/MD
Sample : VX0214WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 22:12:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	23036	22.298	ug/l		98
42) 1,2-Dichloroethane	6.080	62	37652	21.803	ug/l		100
43) Isopropyl Acetate	6.336	43	64357	20.648	ug/l		98
44) Trichloroethene	7.123	130	24052	19.420	ug/l		96
45) 1,2-Dichloropropane	7.427	63	26311	19.518	ug/l		99
46) Dibromomethane	7.580	93	19515	20.875	ug/l		98
47) Bromodichloromethane	7.818	83	37748	20.853	ug/l		97
48) Methyl methacrylate	7.690	41	31848	21.671	ug/l		97
49) 1,4-Dioxane	7.659	88	13982	443.448	ug/l		98
51) 4-Methyl-2-Pentanone	8.567	43	219588	115.888	ug/l		97
52) Toluene	8.714	92	63830	19.780	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	35347	19.296	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	40620	19.889	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	26556	21.408	ug/l		98
56) Ethyl methacrylate	9.116	69	41272	20.600	ug/l		99
57) 1,3-Dichloropropane	9.305	76	45713	21.061	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	99532	101.176	ug/l		99
59) 2-Hexanone	9.427	43	159284	116.671	ug/l		99
60) Dibromochloromethane	9.519	129	28129	21.203	ug/l		97
61) 1,2-Dibromoethane	9.604	107	27025	21.494	ug/l		97
64) Tetrachloroethene	9.269	164	21103	20.294	ug/l		96
65) Chlorobenzene	10.073	112	70853	20.006	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	22743	19.951	ug/l		98
67) Ethyl Benzene	10.189	91	122687	19.631	ug/l		100
68) m/p-Xylenes	10.299	106	92530	40.136	ug/l		99
69) o-Xylene	10.640	106	45891	19.838	ug/l		97
70) Styrene	10.652	104	77302	20.741	ug/l		99
71) Bromoform	10.799	173	18090	21.264	ug/l	#	100
73) Isopropylbenzene	10.957	105	117063	18.691	ug/l		99
74) N-amyl acetate	10.841	43	55559	19.604	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	42130	19.576	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	34055m	19.747	ug/l		
77) Bromobenzene	11.195	156	27335	19.251	ug/l		99
78) n-propylbenzene	11.299	91	138085	19.101	ug/l		100
79) 2-Chlorotoluene	11.360	91	84337	18.982	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	98051	19.292	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	11059	16.496	ug/l		89
82) 4-Chlorotoluene	11.451	91	94538	19.233	ug/l		99
83) tert-Butylbenzene	11.713	119	99538	19.359	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	100112	19.957	ug/l		100
85) sec-Butylbenzene	11.890	105	126113	19.808	ug/l		99
86) p-Isopropyltoluene	12.006	119	103751	20.263	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	50550	19.359	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	51205	19.395	ug/l		99
89) n-Butylbenzene	12.329	91	90481	19.975	ug/l		99
90) Hexachloroethane	12.536	117	17246	17.989	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	52530	20.469	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7941	20.217	ug/l		94
93) 1,2,4-Trichlorobenzene	13.585	180	29608	19.066	ug/l		98
94) Hexachlorobutadiene	13.725	225	12223	19.827	ug/l		98
95) Naphthalene	13.774	128	110366	19.661	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	30613	19.564	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044952.D
Acq On : 14 Feb 2025 11:40
Operator : JC/MD
Sample : VX0214WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 22:12:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

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

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

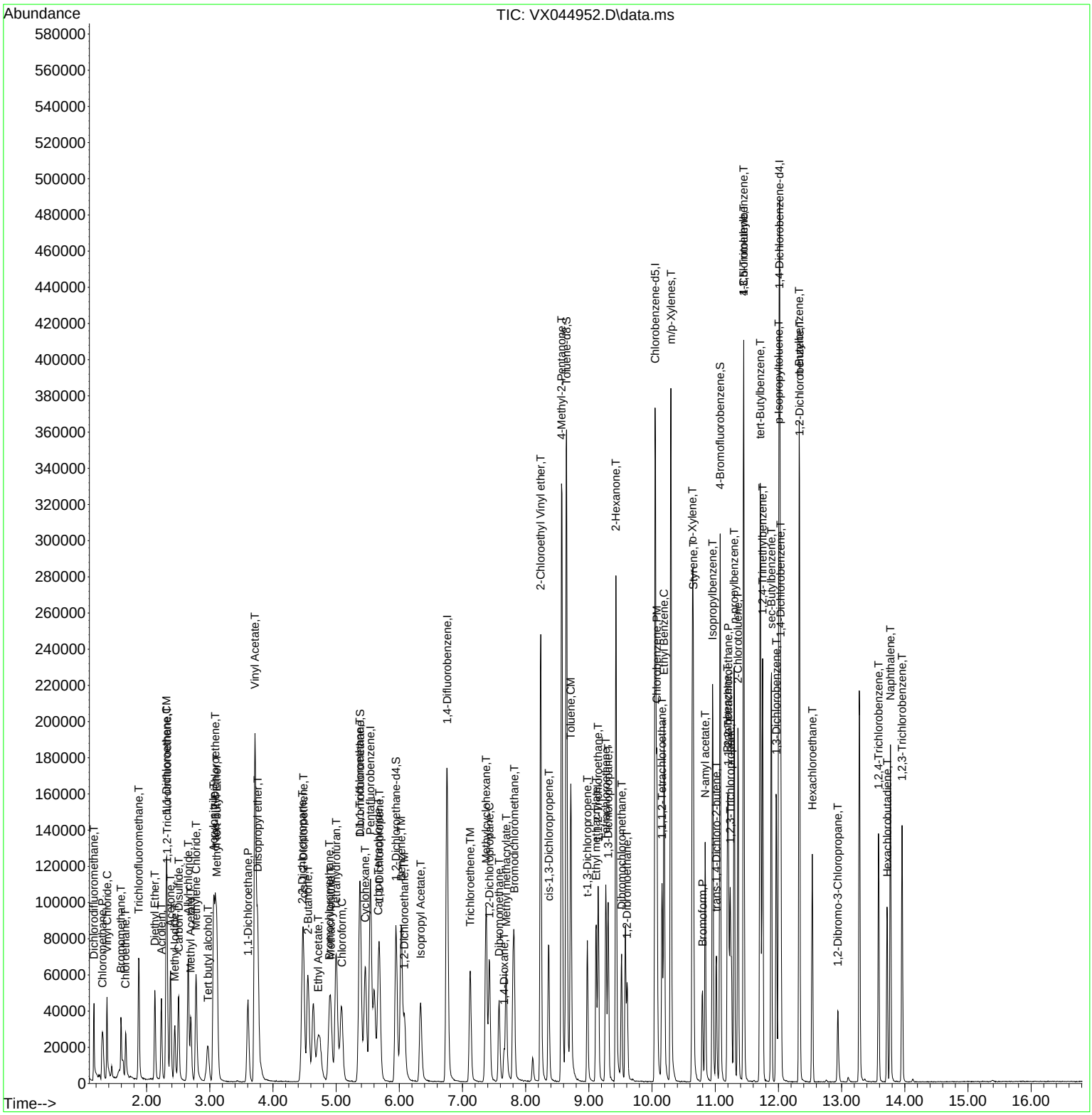
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044952.D
Acq On : 14 Feb 2025 11:40
Operator : JC/MD
Sample : VX0214WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

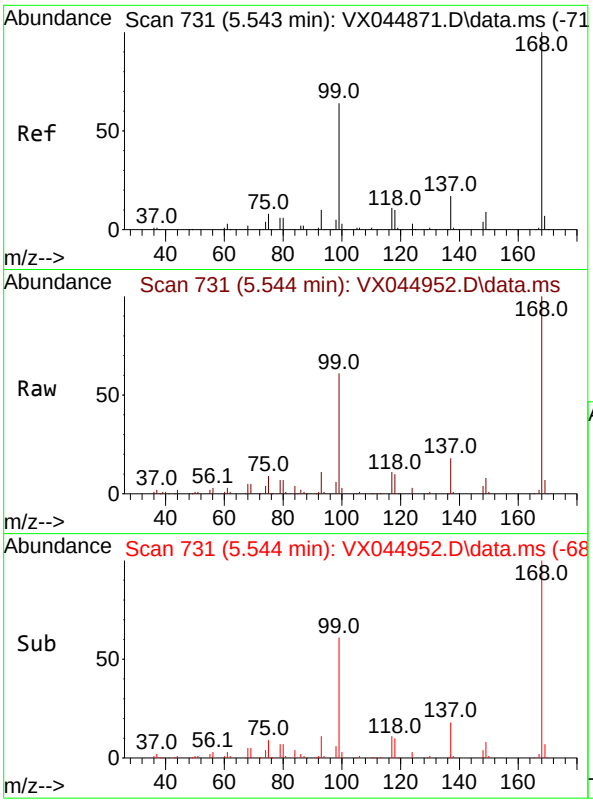
Quant Time: Feb 14 22:12:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

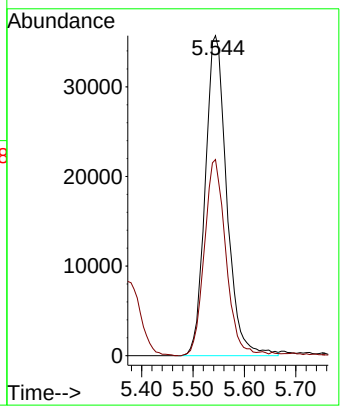




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:168 Resp: 10387

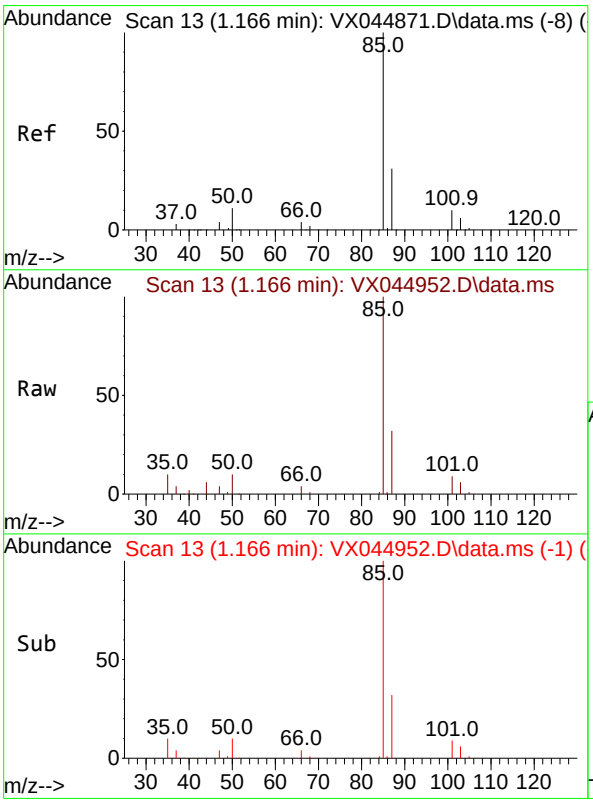
Ion	Ratio	Lower	Upper
168	100		
99	61.3	51.2	76.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

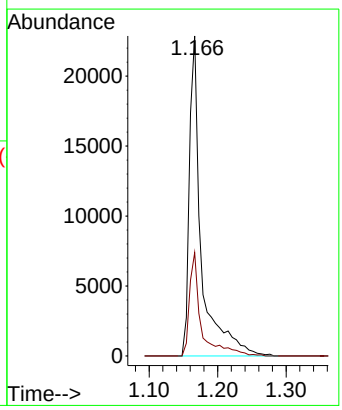
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

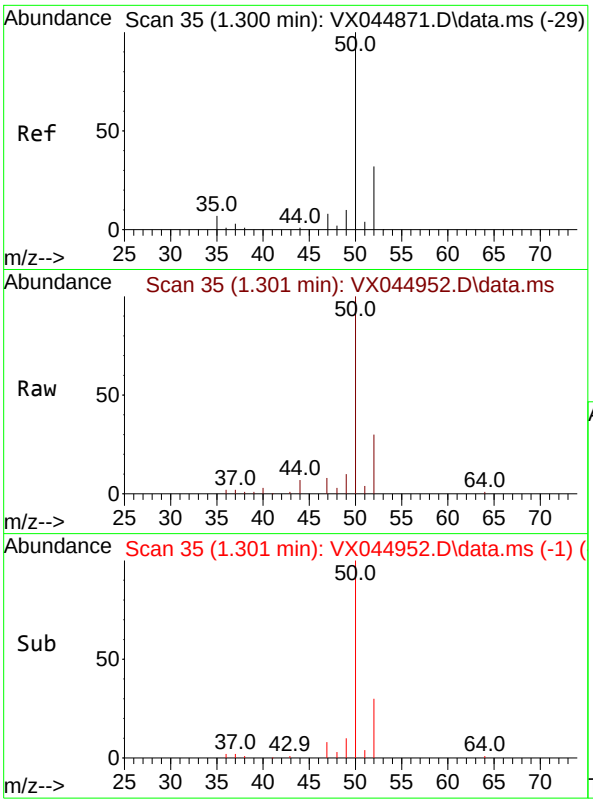


#2
Dichlorodifluoromethane
Concen: 19.169 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 85 Resp: 27927

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.3

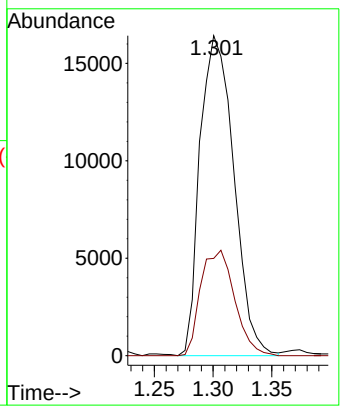




#3
Chloromethane
Concen: 18.605 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 50 Resp: 3299

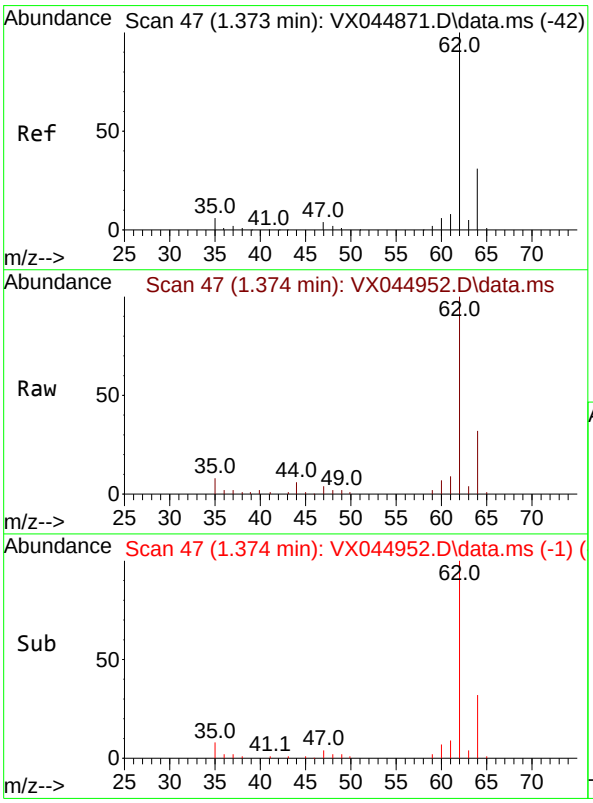
Ion	Ratio	Lower	Upper
50	100		
52	30.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

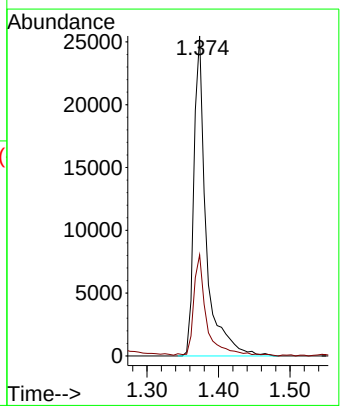
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

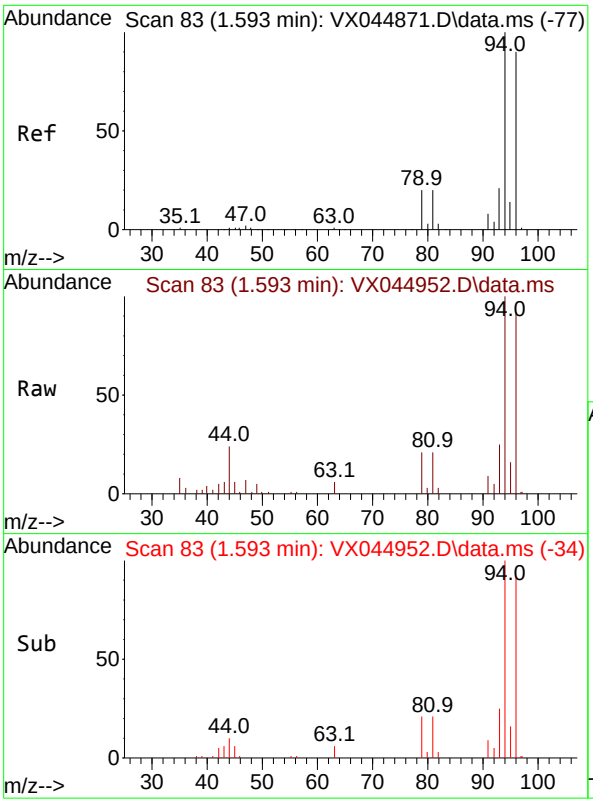


#4
Vinyl Chloride
Concen: 17.611 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 62 Resp: 30252

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.4	38.0

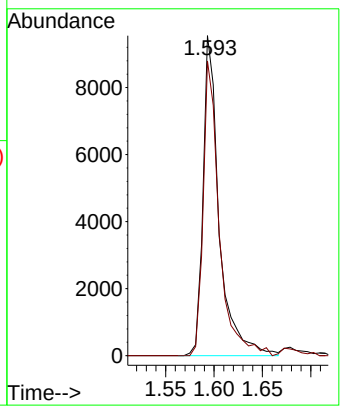




#5
Bromomethane
Concen: 21.636 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 94 Resp: 1112

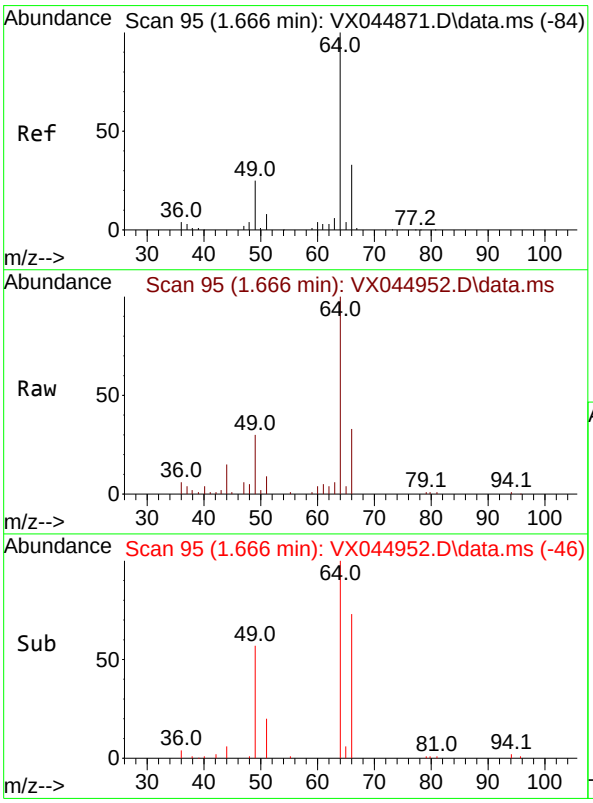
Ion	Ratio	Lower	Upper
94	100		
96	92.1	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

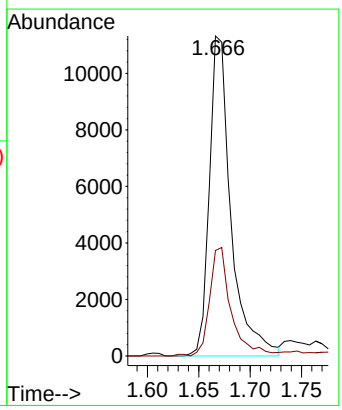
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

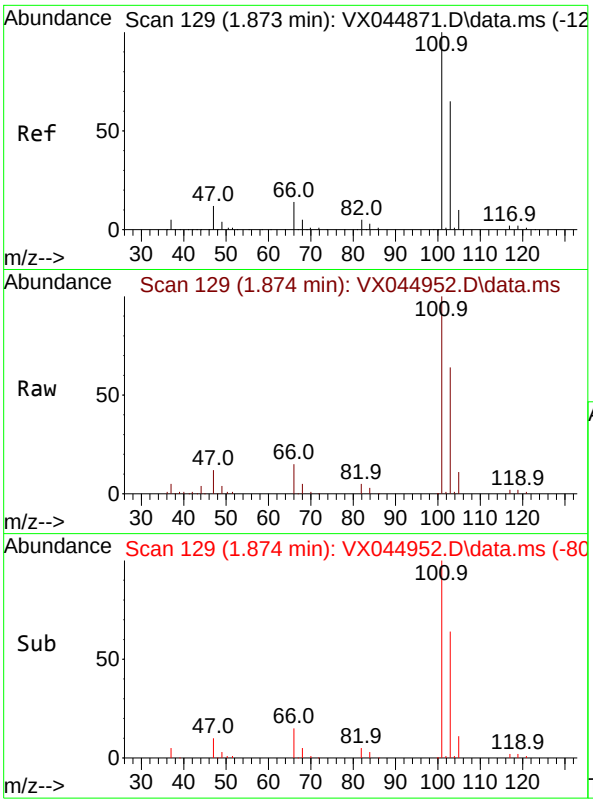


#6
Chloroethane
Concen: 22.848 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 64 Resp: 16528

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.9	38.9

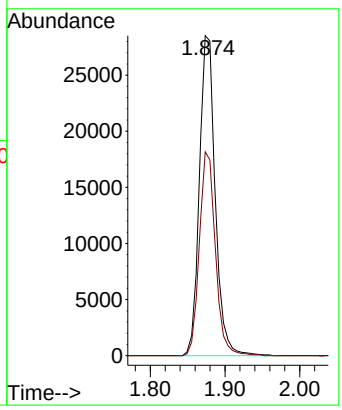




#7
Trichlorofluoromethane
Concen: 19.359 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:101 Resp: 4205

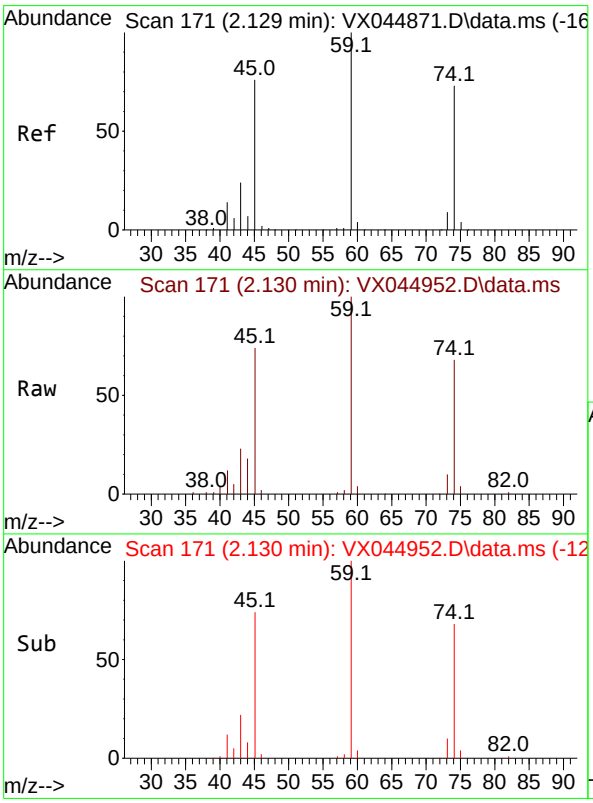
Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.4	78.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

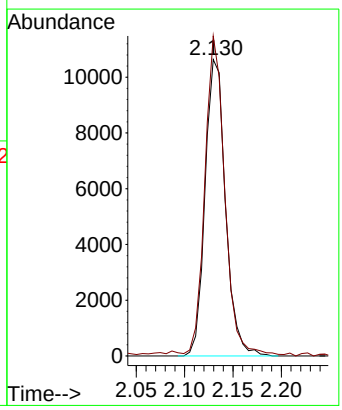
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

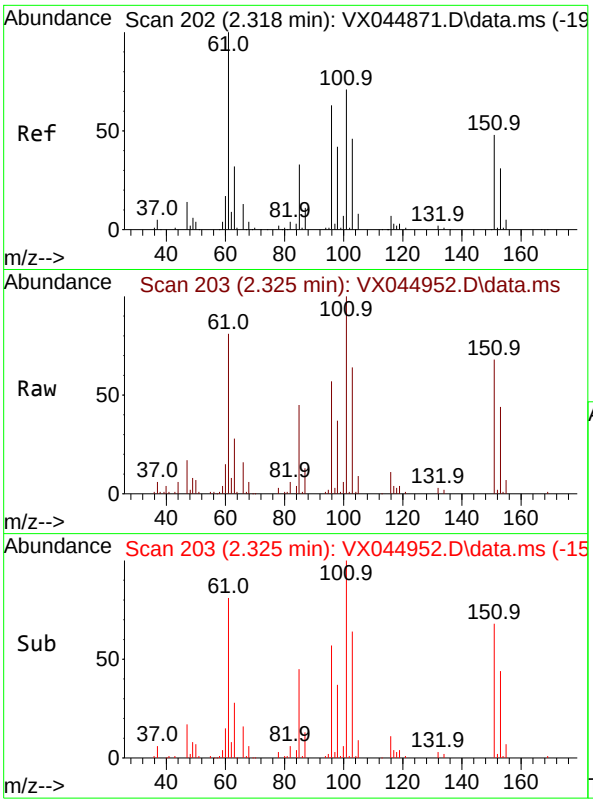


#8
Diethyl Ether
Concen: 19.820 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 74 Resp: 15615

Ion	Ratio	Lower	Upper
74	100		
45	103.6	51.1	153.4

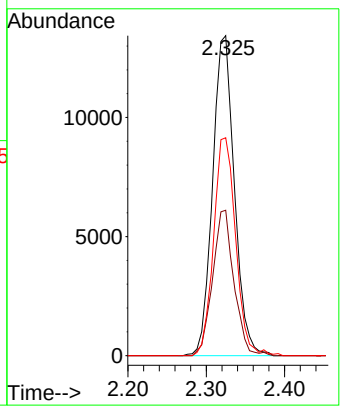




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.816 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:101 Resp: 2600

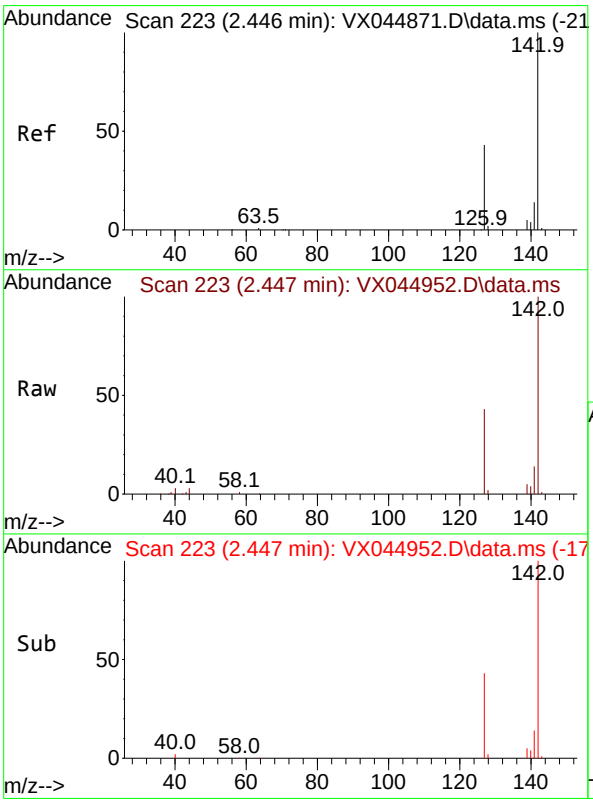
Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.7	53.5
151	68.9	56.0	84.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

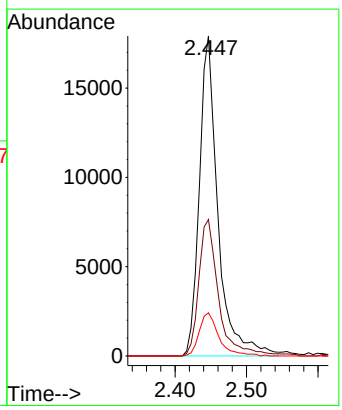
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

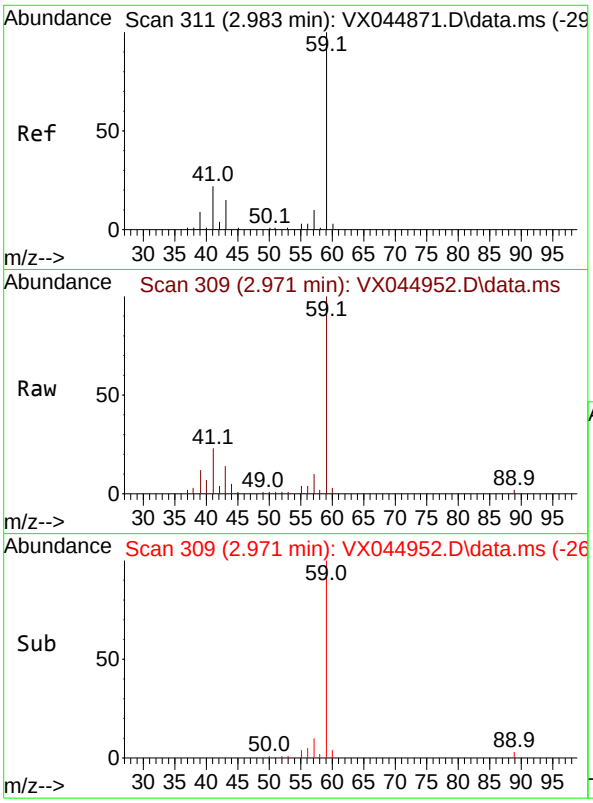


#10
Methyl Iodide
Concen: 18.974 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:142 Resp: 32276

Ion	Ratio	Lower	Upper
142	100		
127	45.7	34.3	51.5
141	14.3	11.4	17.2

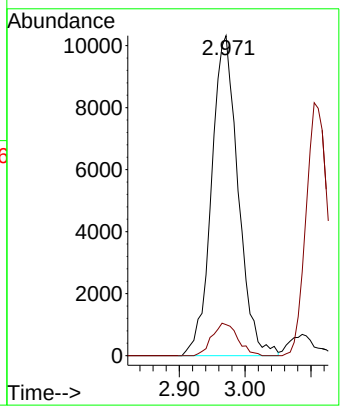




#11
Tert butyl alcohol
Concen: 103.075 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 59 Resp: 2907

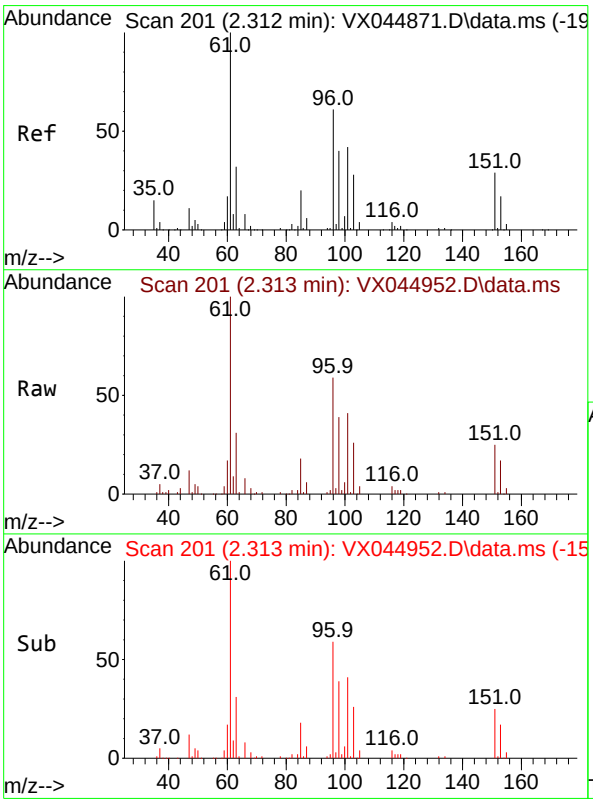
Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

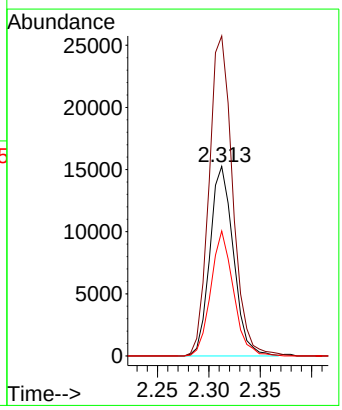
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

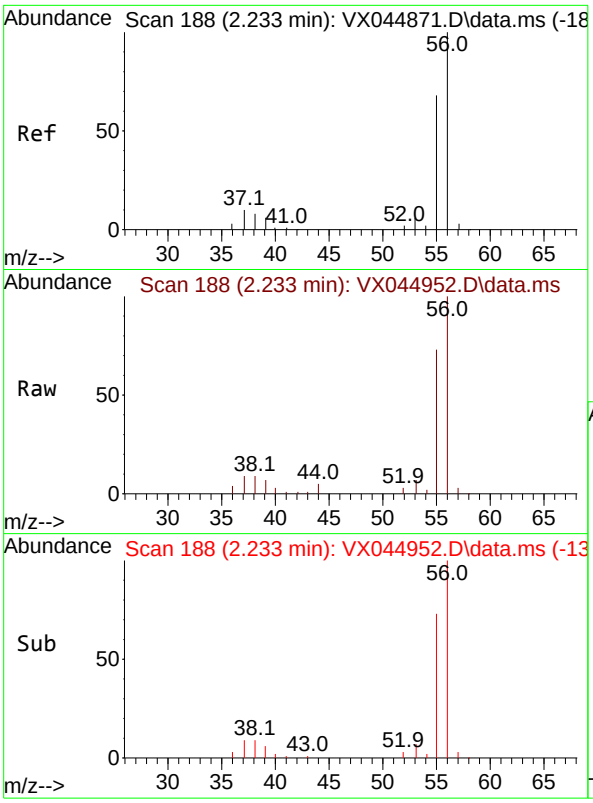


#12
1,1-Dichloroethene
Concen: 18.130 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 96 Resp: 24273

Ion	Ratio	Lower	Upper
96	100		
61	168.8	130.2	195.4
98	65.9	52.2	78.4

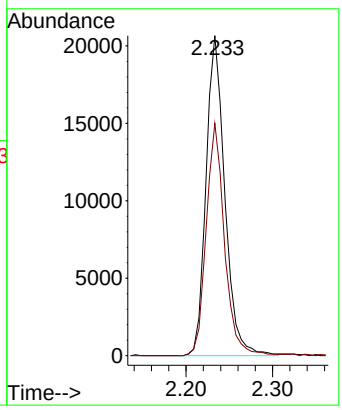




#13
Acrolein
Concen: 106.978 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 56 Resp: 3113

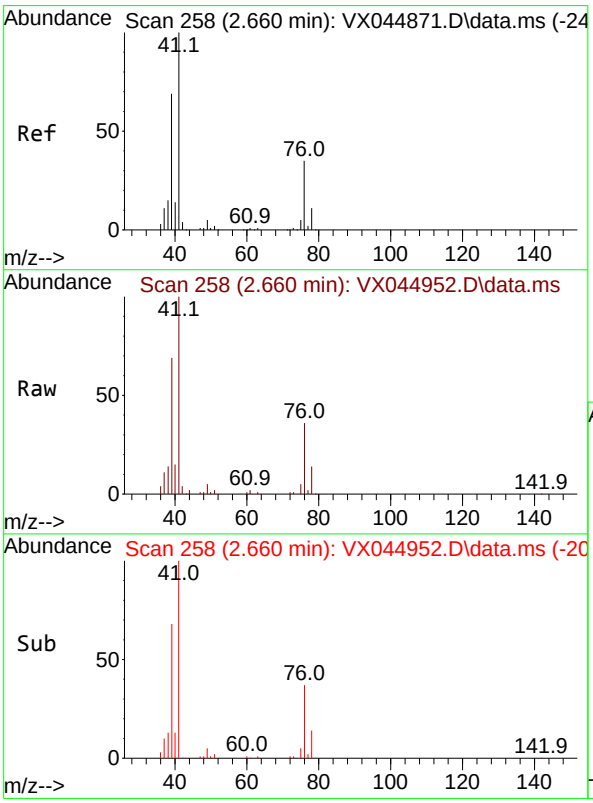
Ion	Ratio	Lower	Upper
56	100		
55	71.0	55.7	83.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

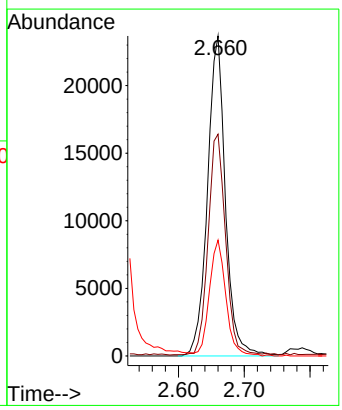
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

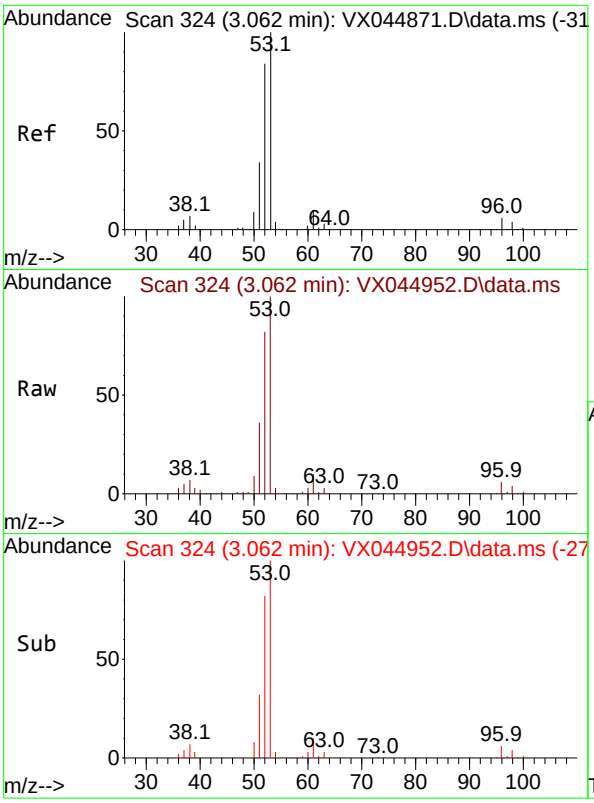


#14
Allyl chloride
Concen: 18.613 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 41 Resp: 45037

Ion	Ratio	Lower	Upper
41	100		
39	66.8	51.4	77.2
76	33.2	27.0	40.4

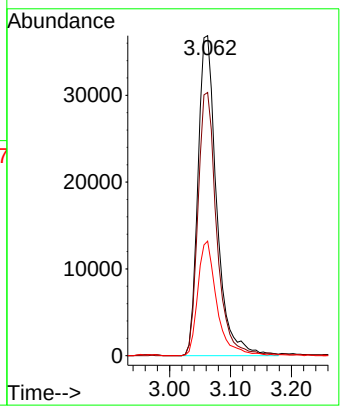




#15
Acrylonitrile
Concen: 104.716 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 53 Resp: 7886

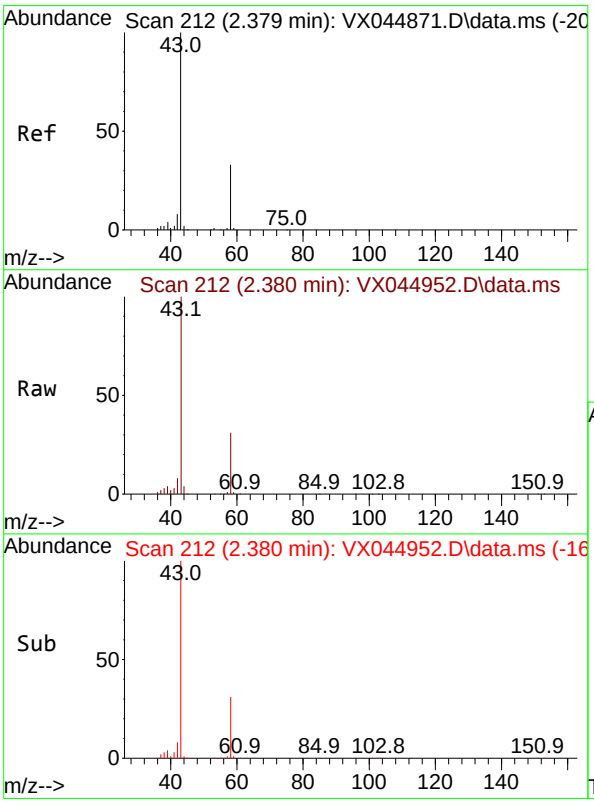
Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.0	97.6
51	36.2	28.0	42.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

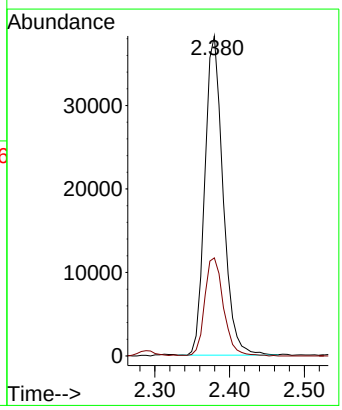
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

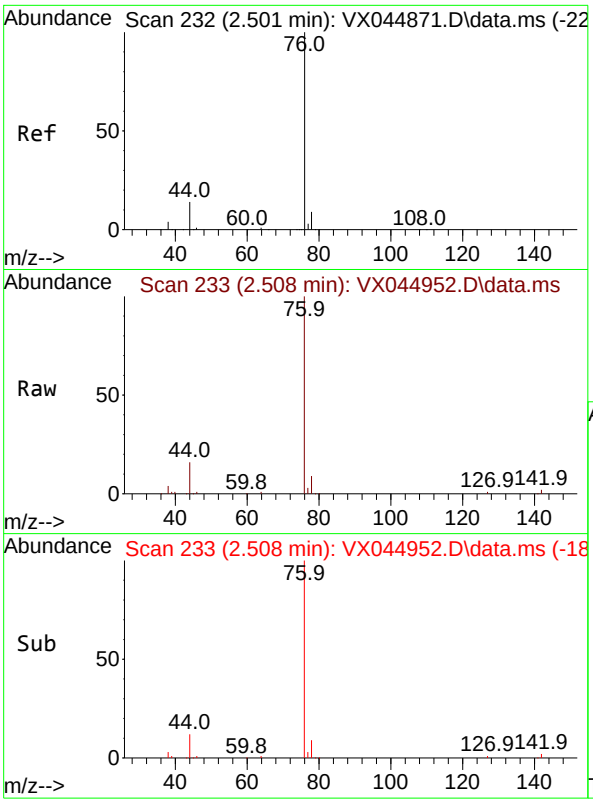


#16
Acetone
Concen: 105.623 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 64564

Ion	Ratio	Lower	Upper
43	100		
58	30.7	26.5	39.7

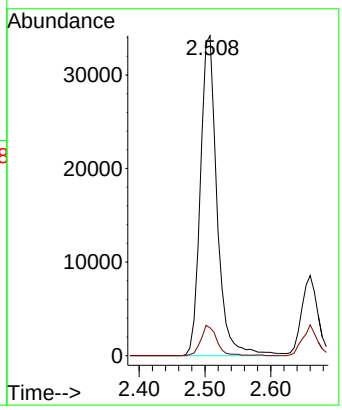




#17
Carbon Disulfide
Concen: 16.426 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 76 Resp: 6030

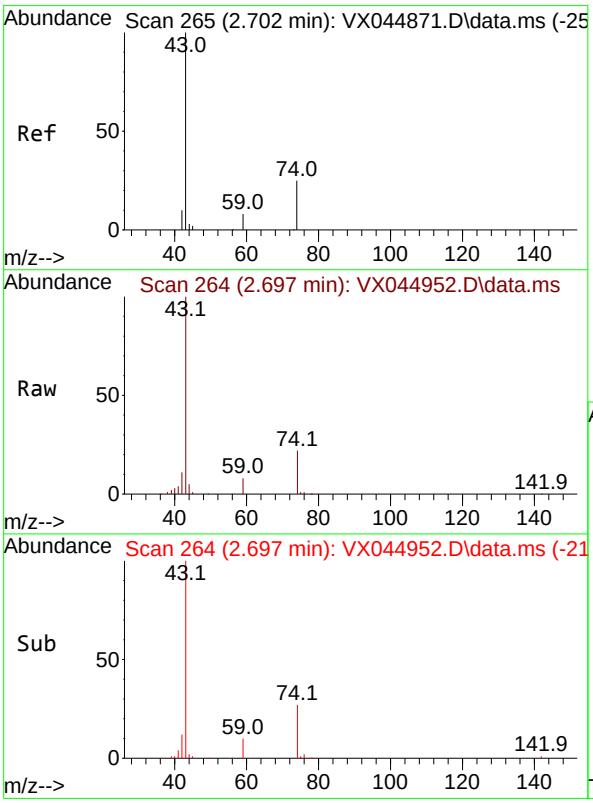
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

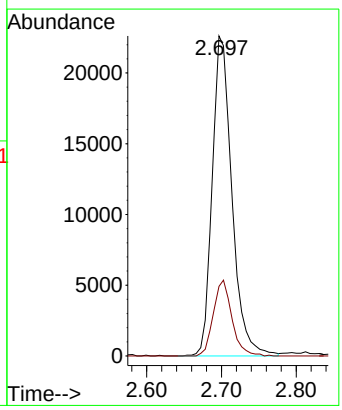
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

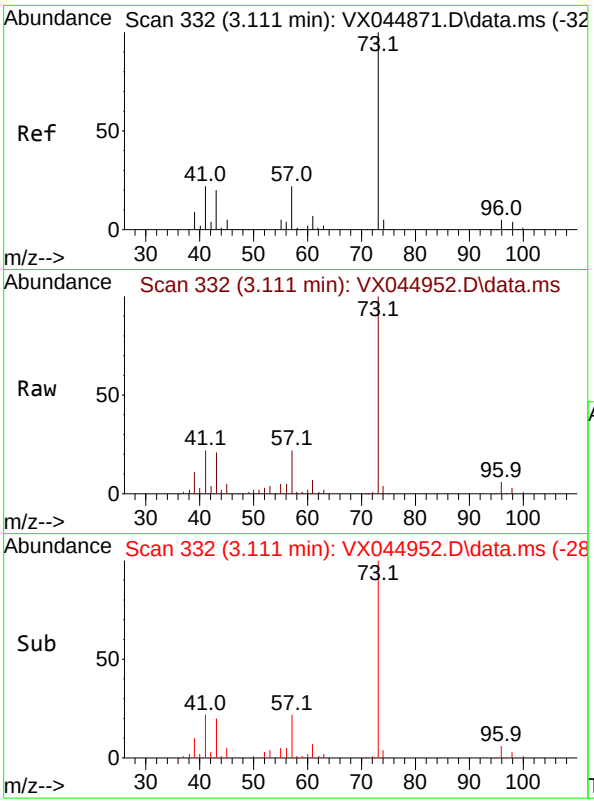


#18
Methyl Acetate
Concen: 21.504 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 41481

Ion	Ratio	Lower	Upper
43	100		
74	22.4	18.9	28.3

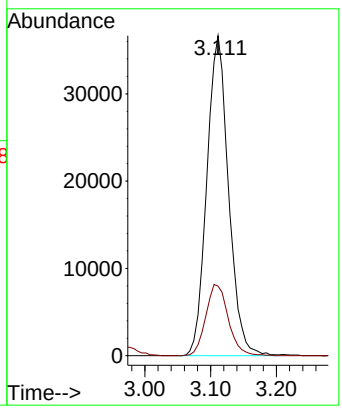




#19
Methyl tert-butyl Ether
Concen: 19.778 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 73 Resp: 8425

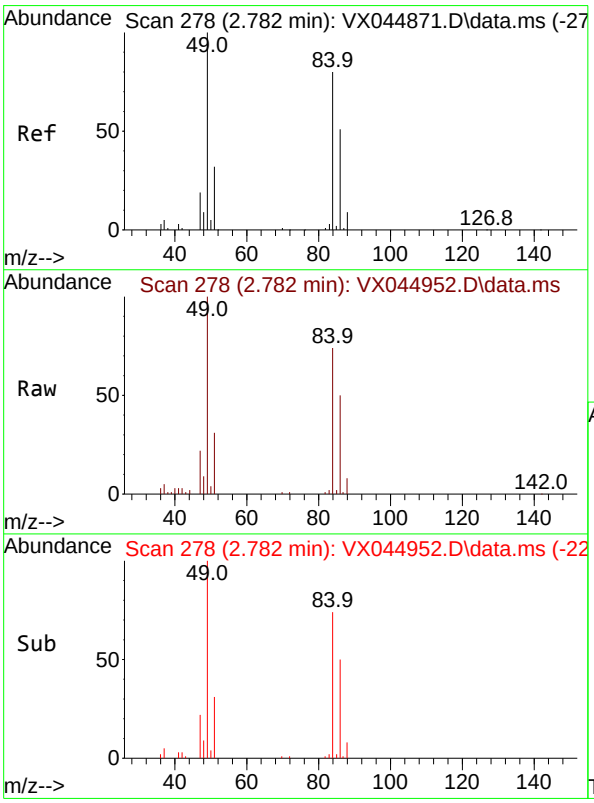
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.9	26.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

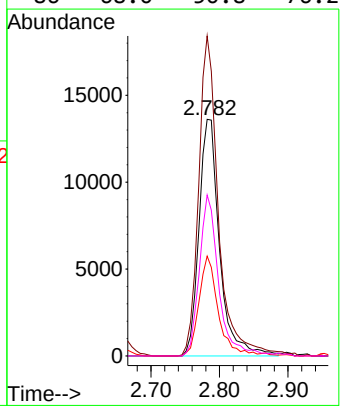
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

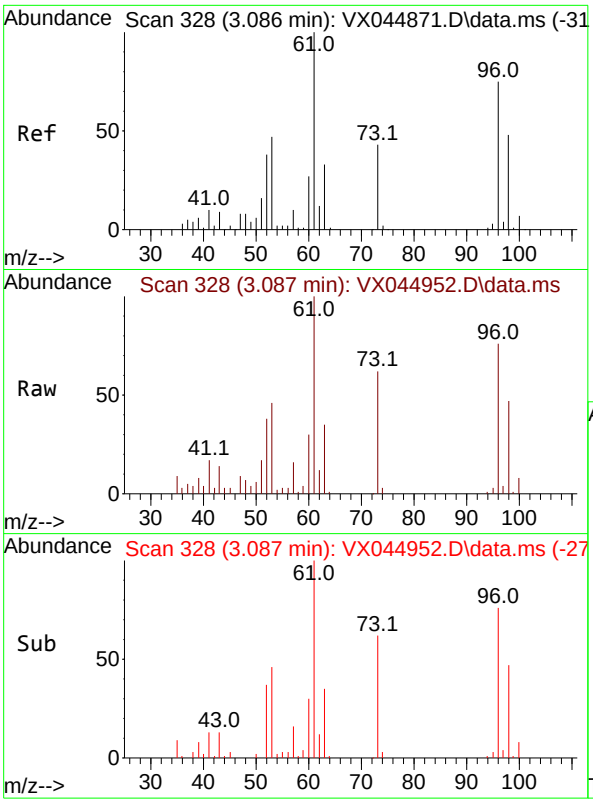


#20
Methylene Chloride
Concen: 19.052 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 84 Resp: 28525

Ion	Ratio	Lower	Upper
84	100		
49	135.3	100.1	150.1
51	42.2	31.7	47.5
86	68.0	50.8	76.2

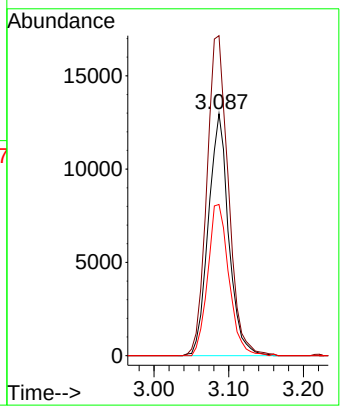




#21
trans-1,2-Dichloroethene
Concen: 18.590 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 96 Resp: 2449

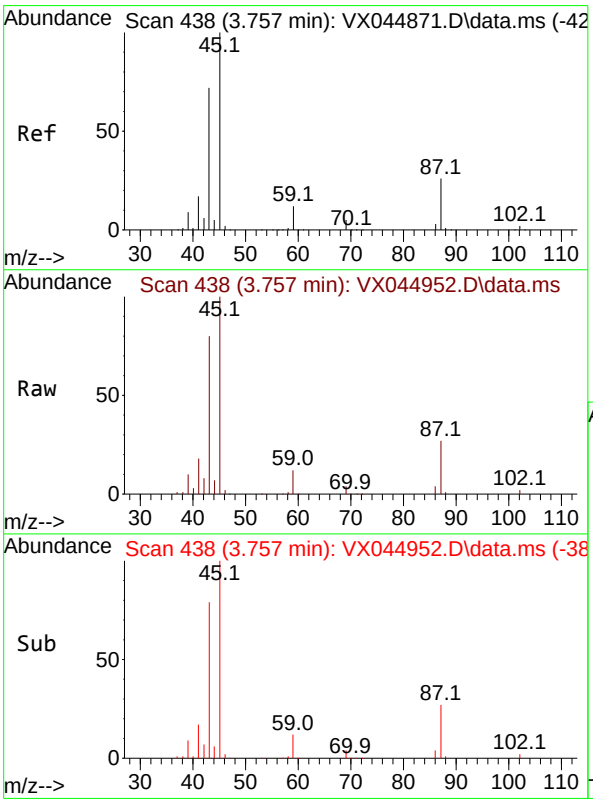
Ion	Ratio	Lower	Upper
96	100		
61	132.3	106.0	159.0
98	62.5	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

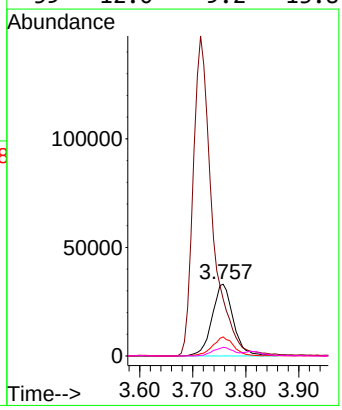
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

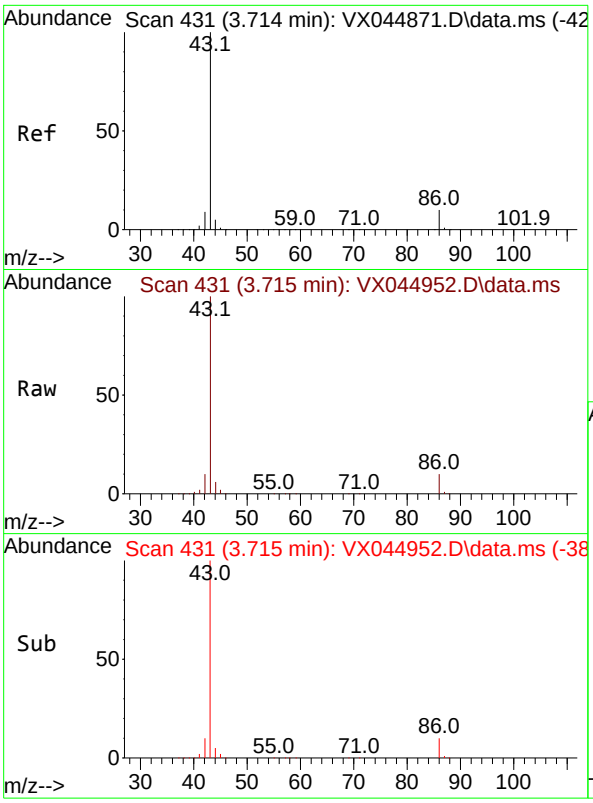


#22
Diisopropyl ether
Concen: 20.082 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 45 Resp: 91929

Ion	Ratio	Lower	Upper
45	100		
43	78.9	58.0	87.0
87	26.6	20.7	31.1
59	12.0	9.2	13.8





#23
Vinyl Acetate
Concen: 99.722 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

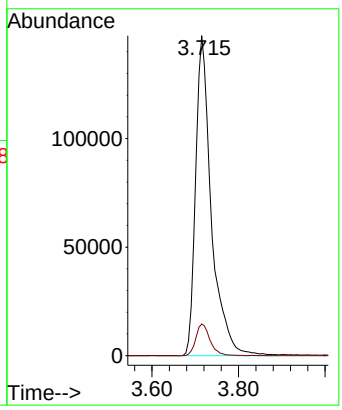
Tgt Ion: 43 Resp: 37216

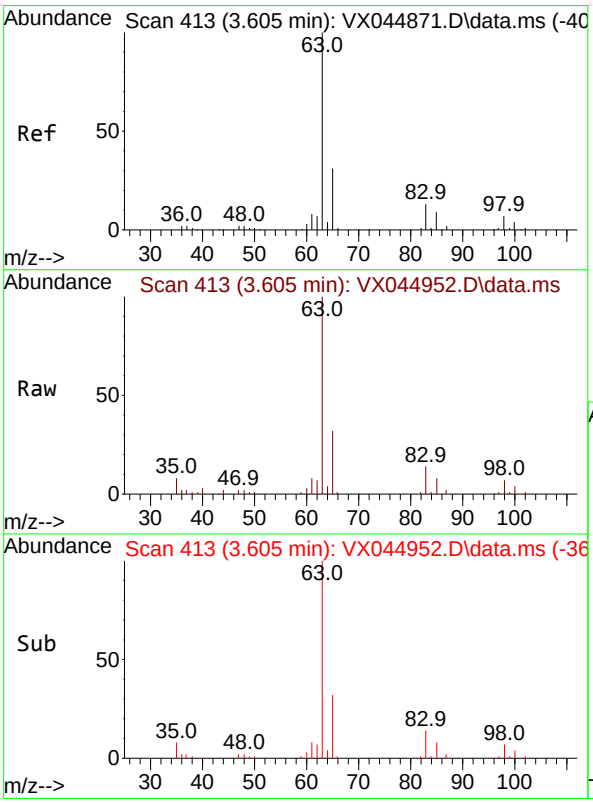
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

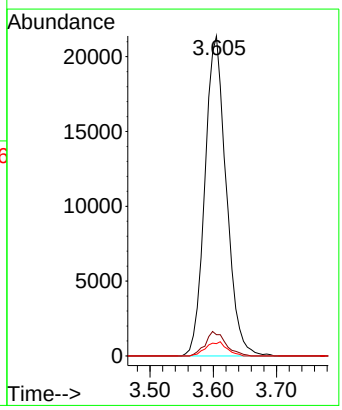


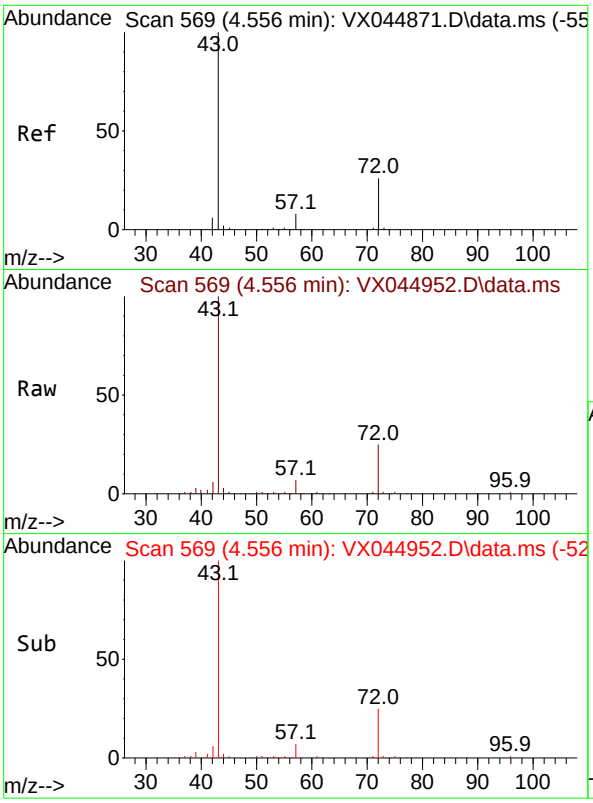


#24
1,1-Dichloroethane
Concen: 19.550 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 63 Resp: 50075

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.3	9.9
100	3.8	2.1	6.5





#25
2-Butanone
Concen: 106.736 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

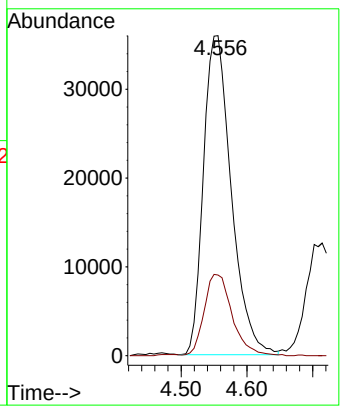
Tgt Ion: 43 Resp: 10594

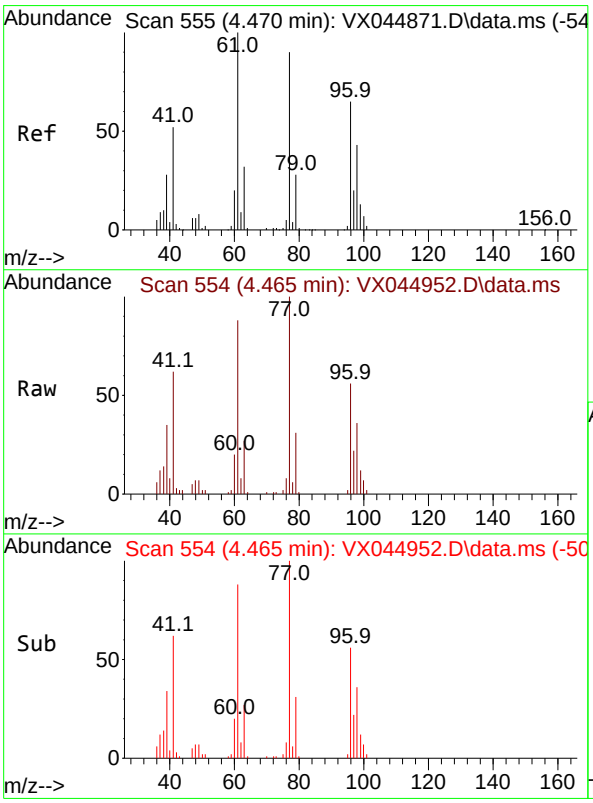
Ion	Ratio	Lower	Upper
43	100		
72	25.0	21.2	31.8

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

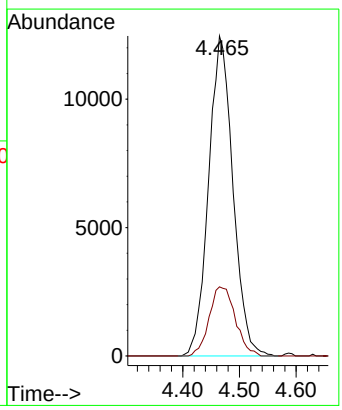


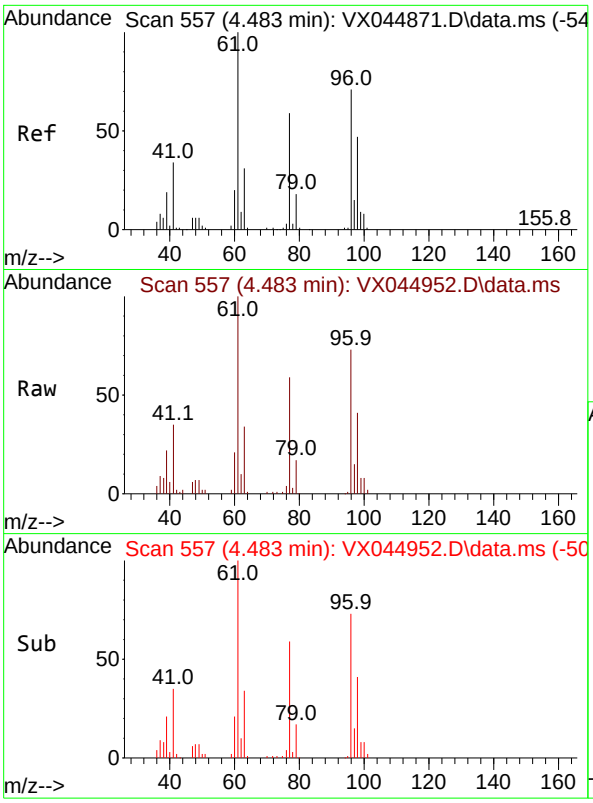


#26
2,2-Dichloropropane
Concen: 18.267 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 77 Resp: 37106

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.8	35.3

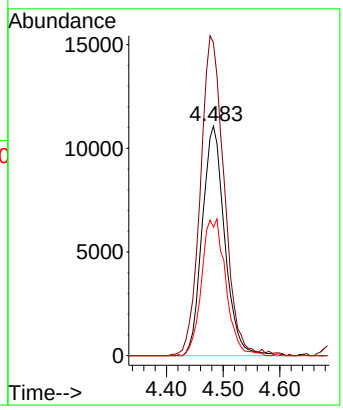




#27
cis-1,2-Dichloroethene
Concen: 19.237 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 96 Resp: 3044

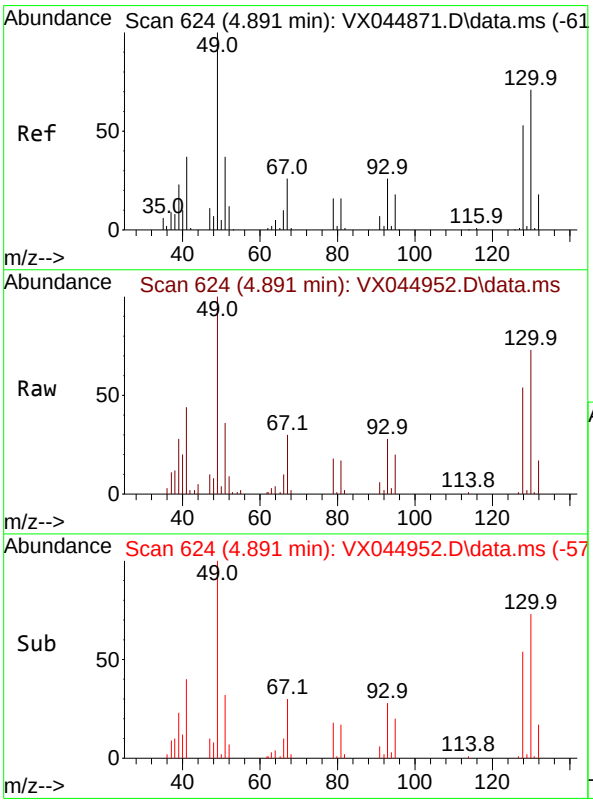
Ion	Ratio	Lower	Upper
96	100		
61	146.8	0.0	294.0
98	64.0	0.0	131.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

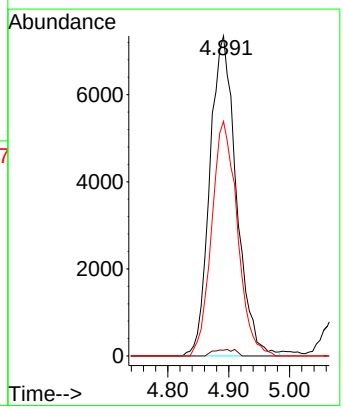
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

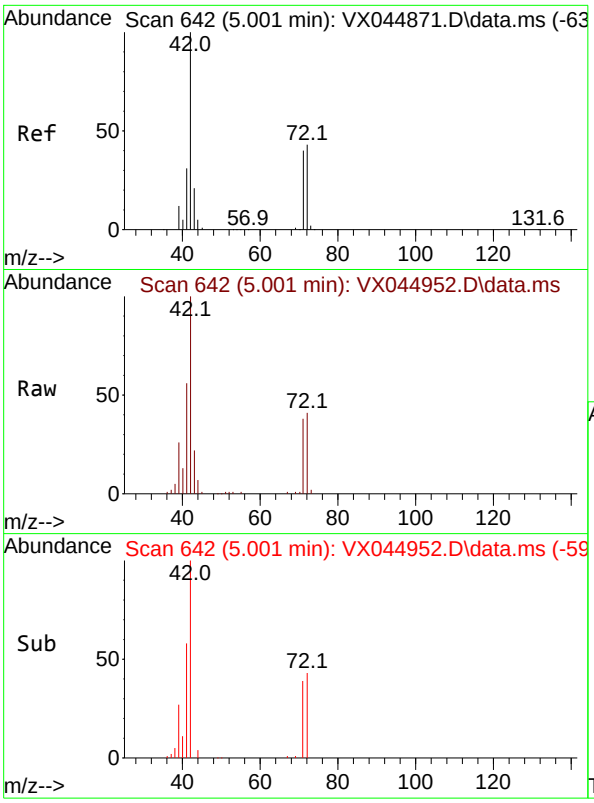


#28
Bromochloromethane
Concen: 18.027 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 49 Resp: 22191

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	71.1	56.7	85.1

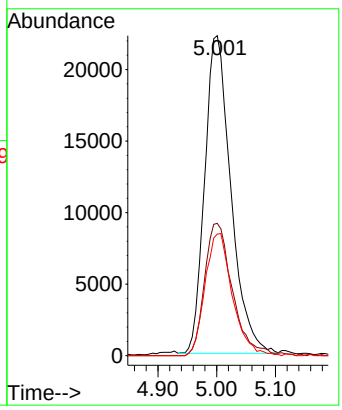




#29
Tetrahydrofuran
Concen: 104.445 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 42 Resp: 6884

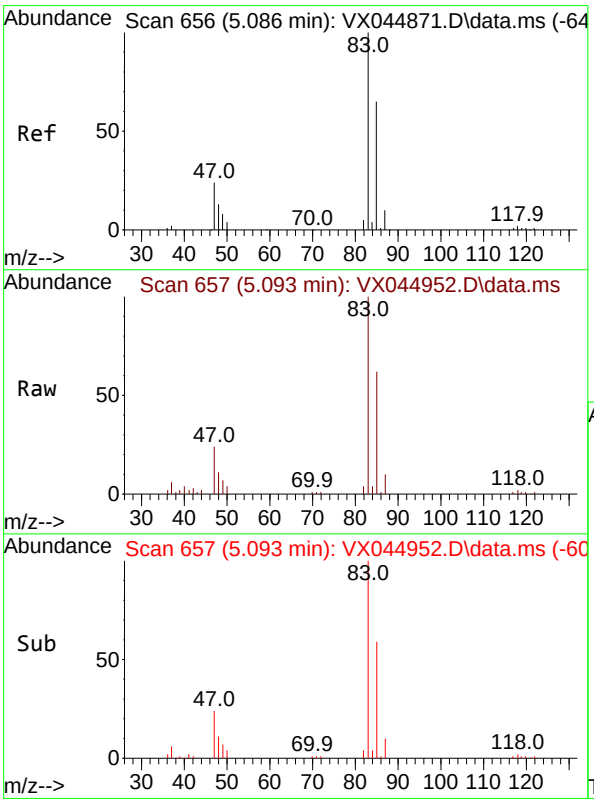
Ion	Ratio	Lower	Upper
42	100		
72	44.4	35.0	52.4
71	40.0	32.6	48.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

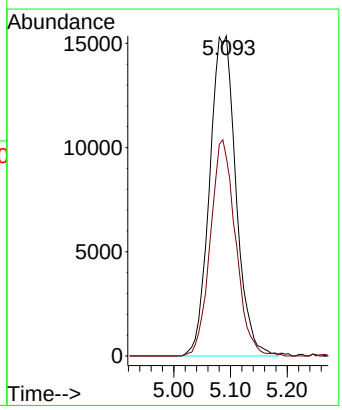
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

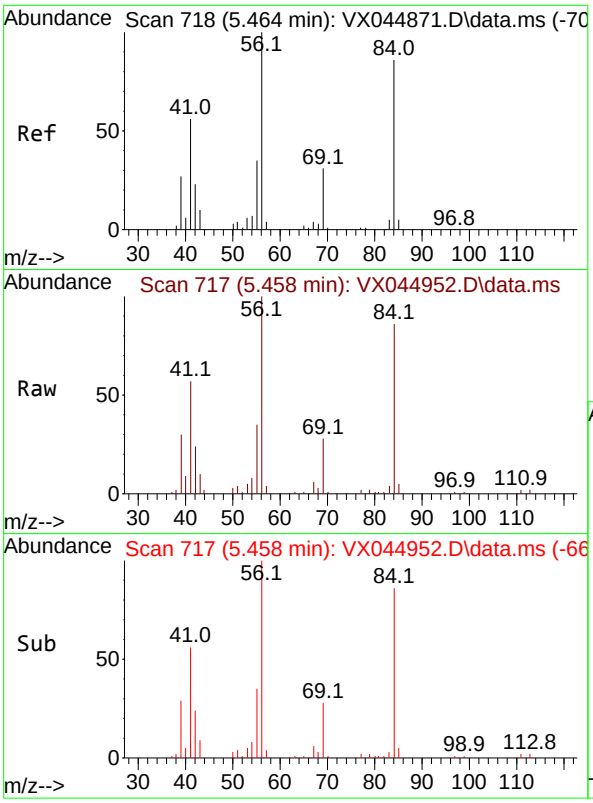


#30
Chloroform
Concen: 19.984 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 83 Resp: 49641

Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.1	78.1

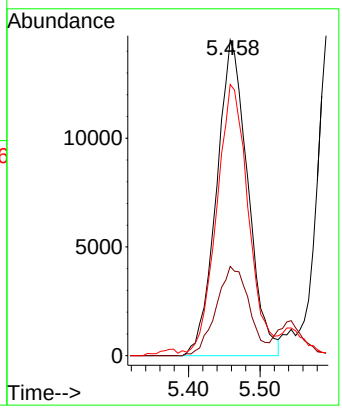




#31
Cyclohexane
Concen: 18.660 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 56 Resp: 4406

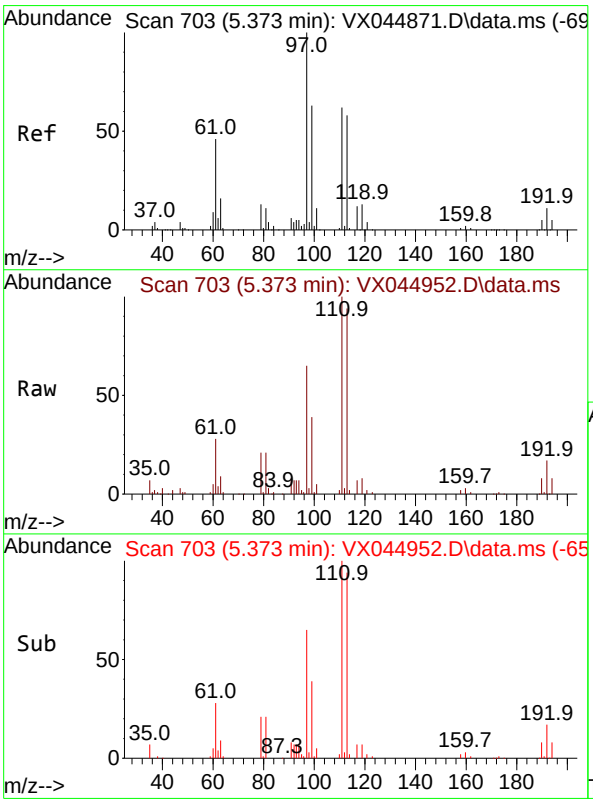
Ion	Ratio	Lower	Upper
56	100		
69	28.3	24.4	36.6
84	85.1	69.0	103.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

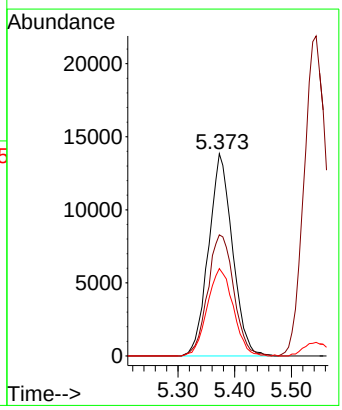
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

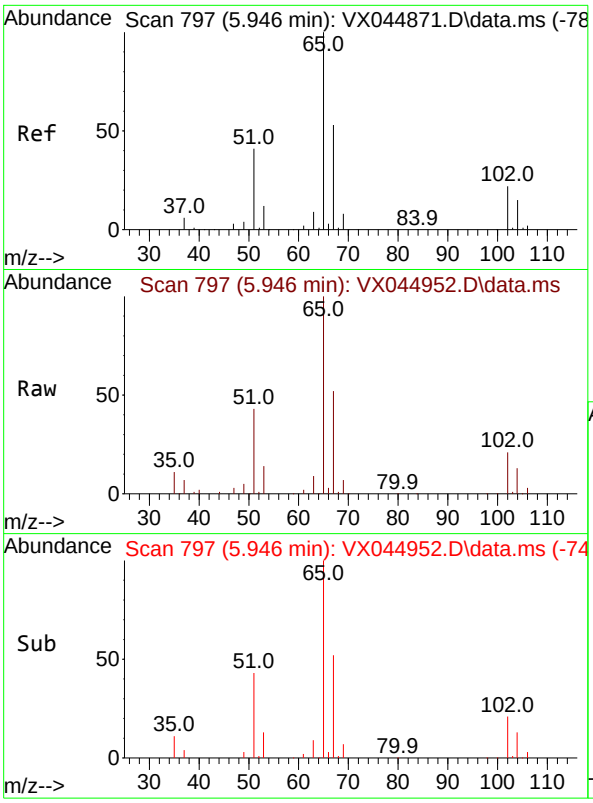


#32
1,1,1-Trichloroethane
Concen: 19.219 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 97 Resp: 40495

Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.0	76.6
61	46.9	36.6	55.0

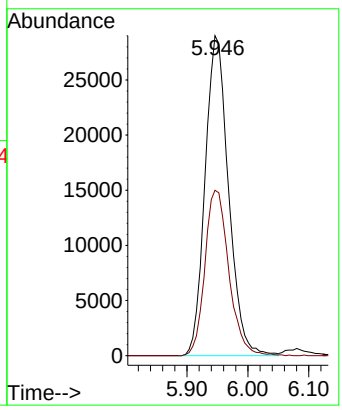




#33
1,2-Dichloroethane-d4
Concen: 51.105 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 65 Resp: 7770

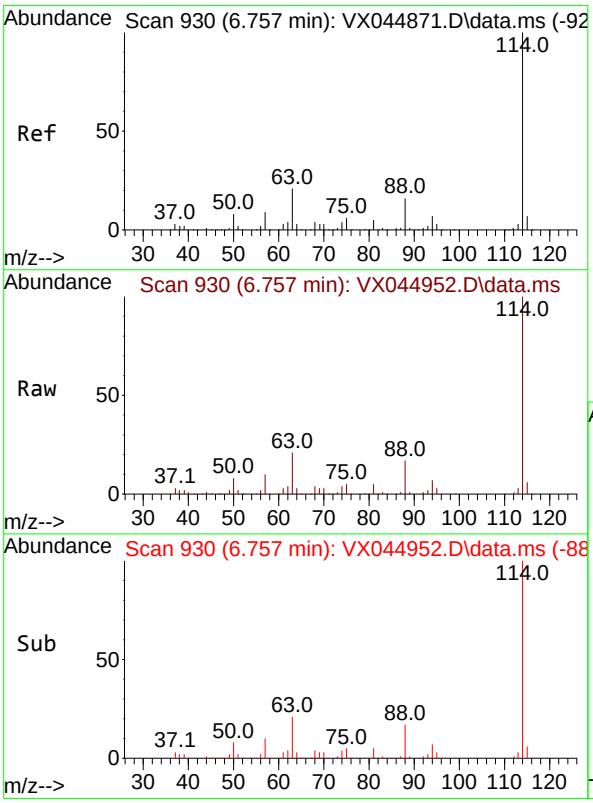
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	108.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

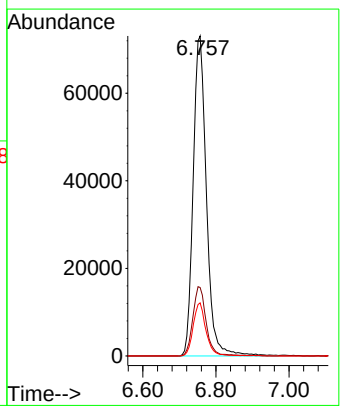
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

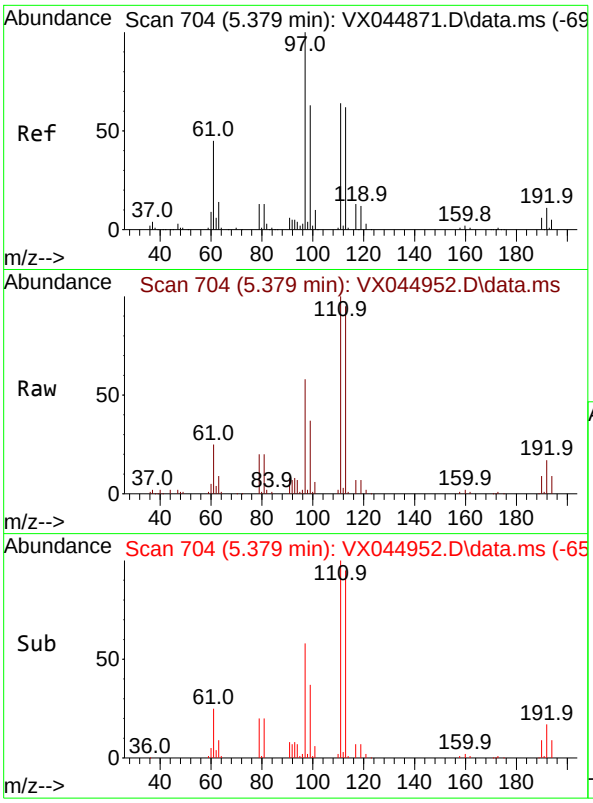


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:114 Resp: 184991

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.4
88	16.6	0.0	31.4

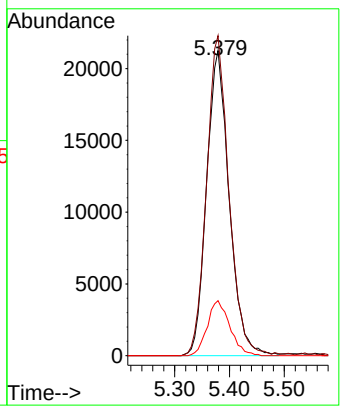




#35
Dibromofluoromethane
Concen: 50.582 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:113 Resp: 6083

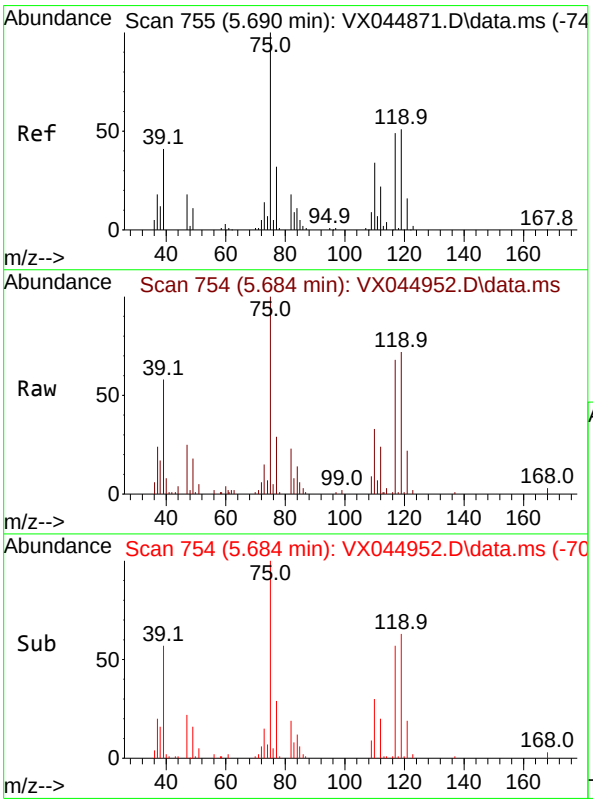
Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.5	125.3
192	18.1	14.4	21.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

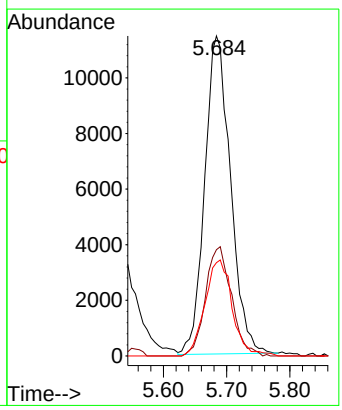
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

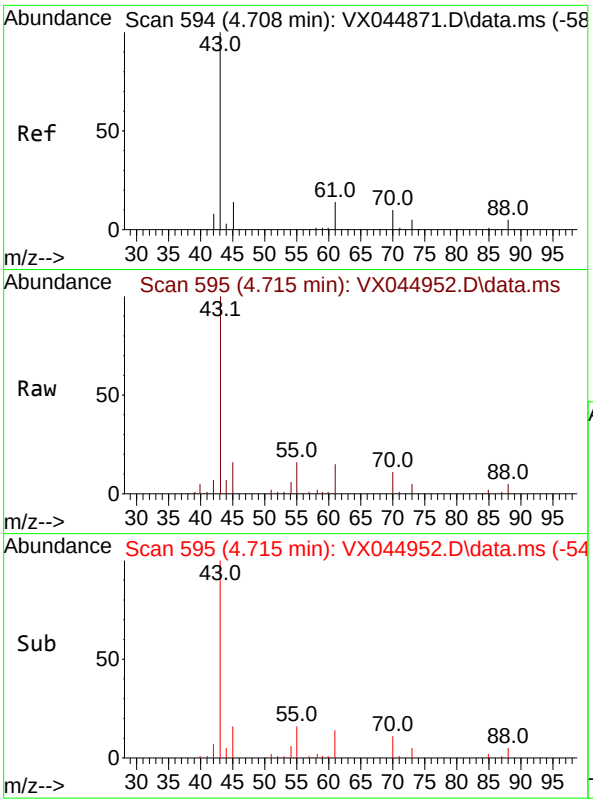


#36
1,1-Dichloropropene
Concen: 18.658 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 32376

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.2	51.6
77	31.9	24.6	37.0

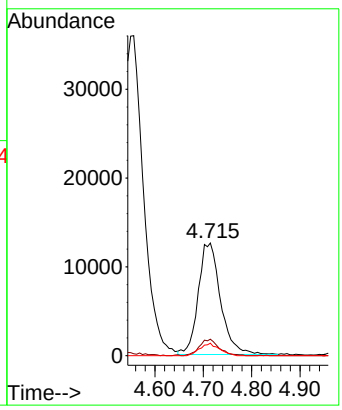




#37
Ethyl Acetate
Concen: 20.830 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 4020

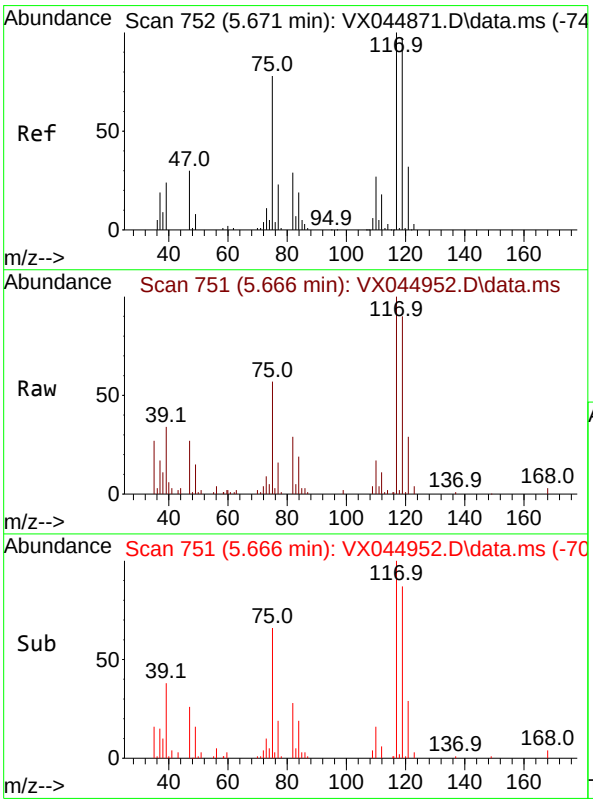
Ion	Ratio	Lower	Upper
43	100		
61	13.1	11.0	16.4
70	9.7	8.2	12.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

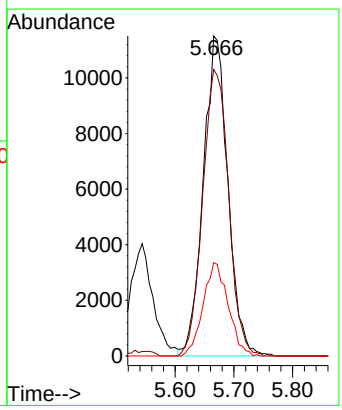
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

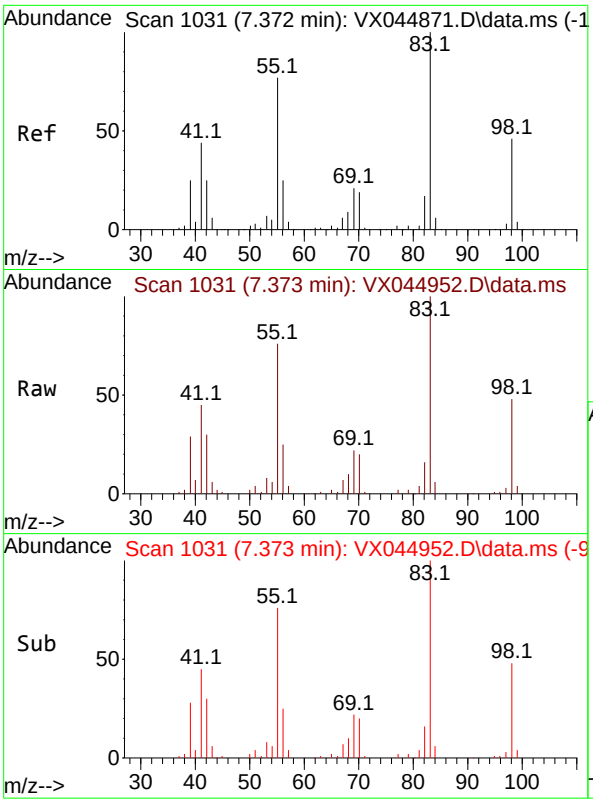


#38
Carbon Tetrachloride
Concen: 19.700 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:117 Resp: 33498

Ion	Ratio	Lower	Upper
117	100		
119	89.5	77.5	116.3
121	29.2	25.6	38.4

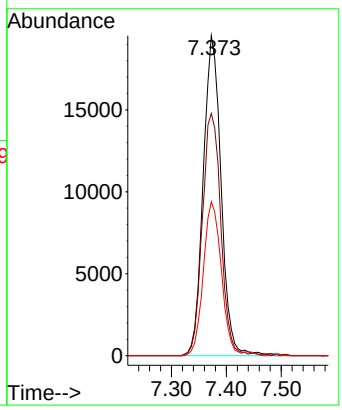




#39
Methylcyclohexane
Concen: 19.671 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 83 Resp: 4412

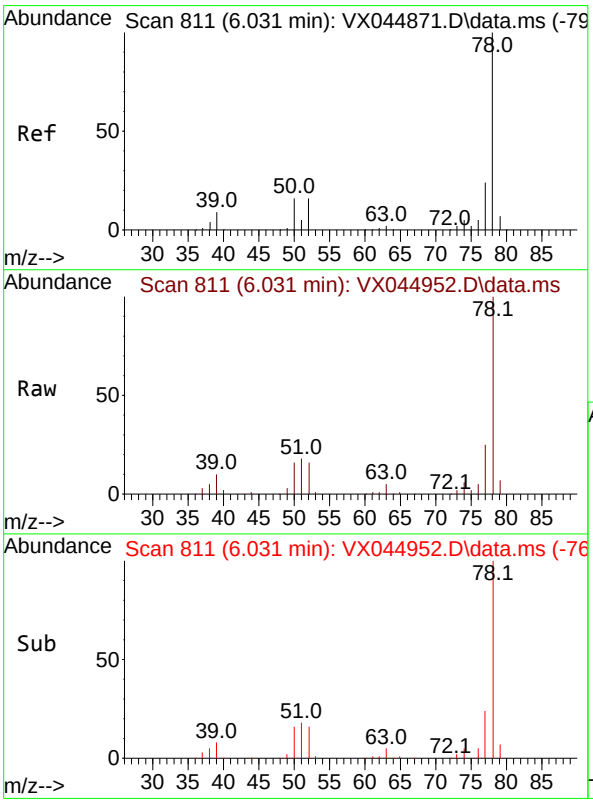
Ion	Ratio	Lower	Upper
83	100		
55	75.7	61.3	91.9
98	48.1	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

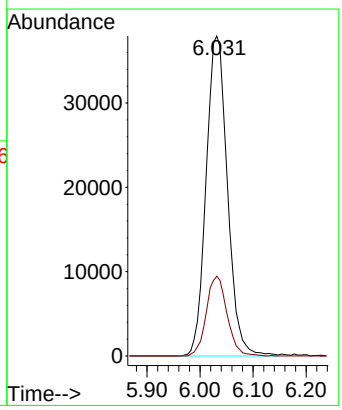
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

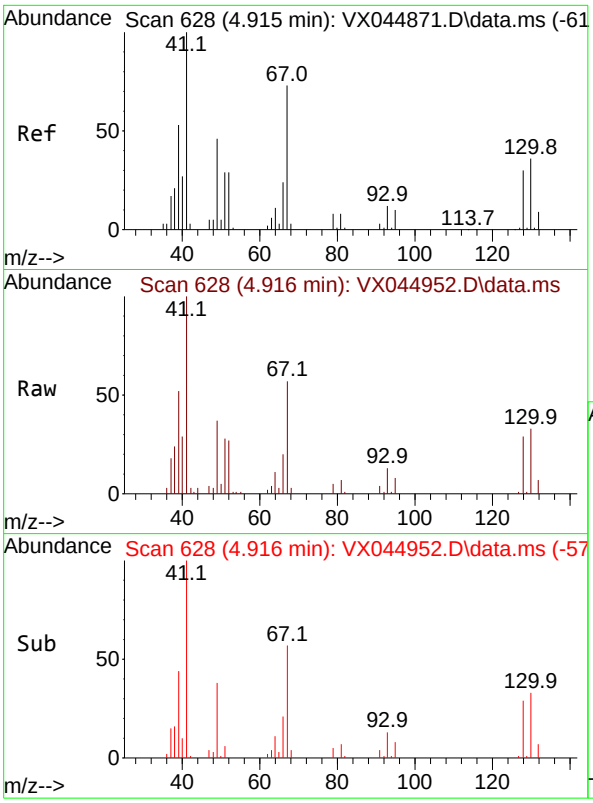


#40
Benzene
Concen: 19.567 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 78 Resp: 106024

Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.0	28.6

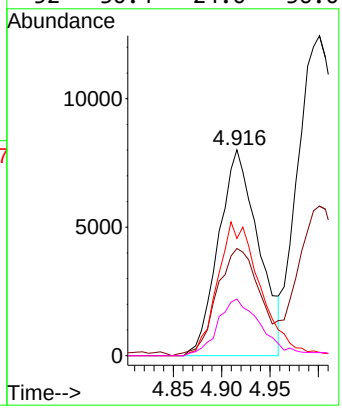




#41
Methacrylonitrile
Concen: 22.298 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 41 Resp: 2303

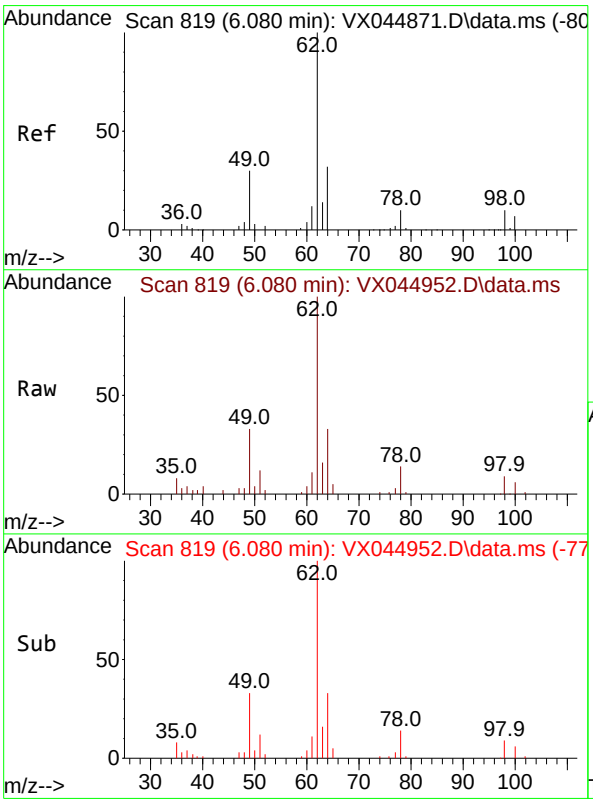
Ion	Ratio	Lower	Upper
41	100		
39	55.0	43.1	64.7
67	69.6	57.0	85.6
52	30.4	24.0	36.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

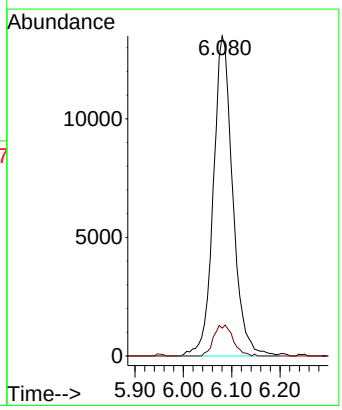
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

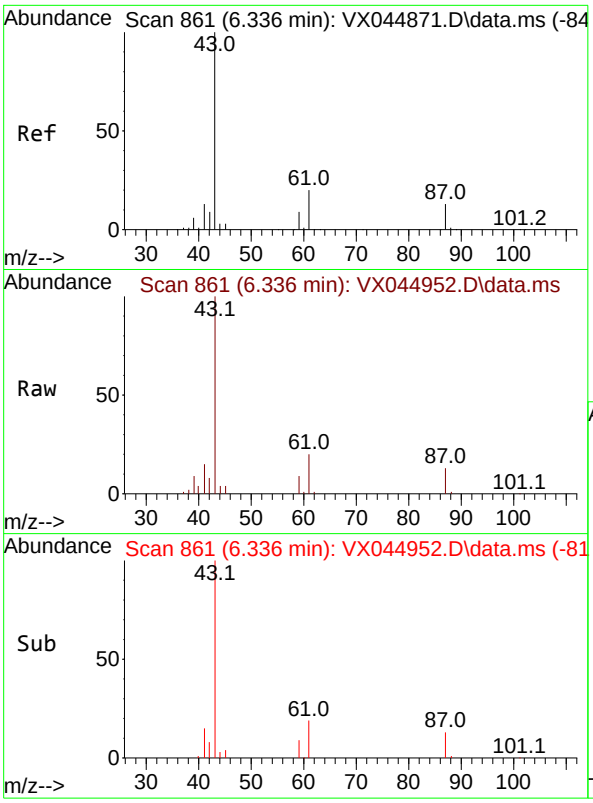


#42
1,2-Dichloroethane
Concen: 21.803 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 62 Resp: 37652

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4

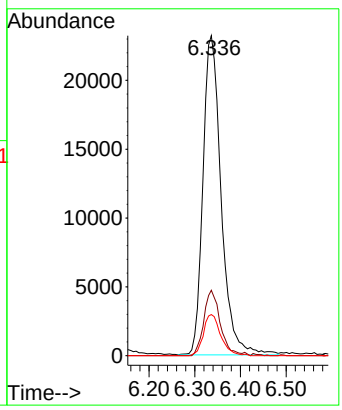




#43
Isopropyl Acetate
Concen: 20.648 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 6435

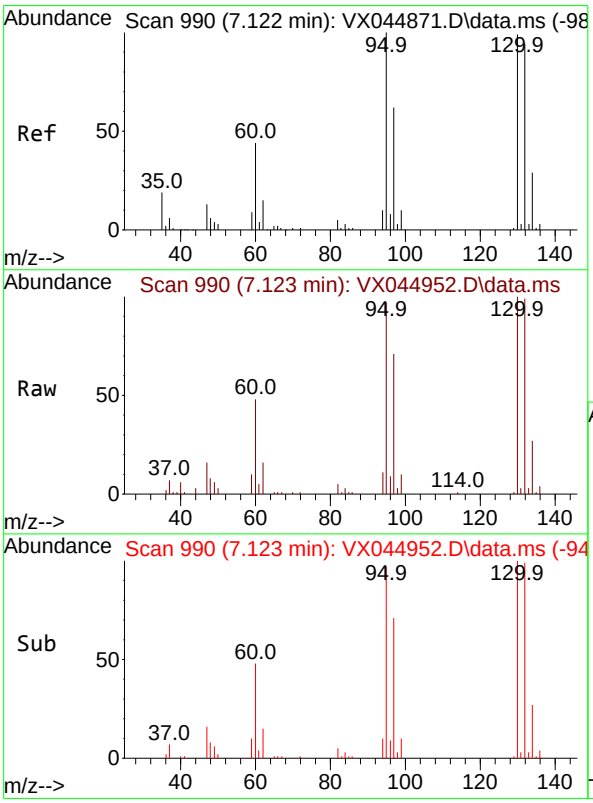
Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.8	23.8
87	12.3	10.0	15.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

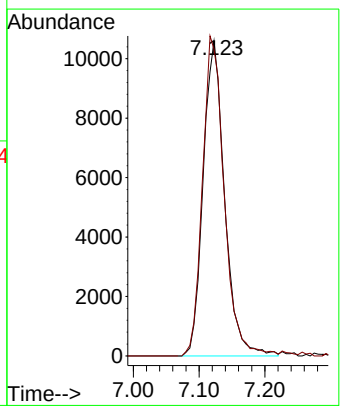
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

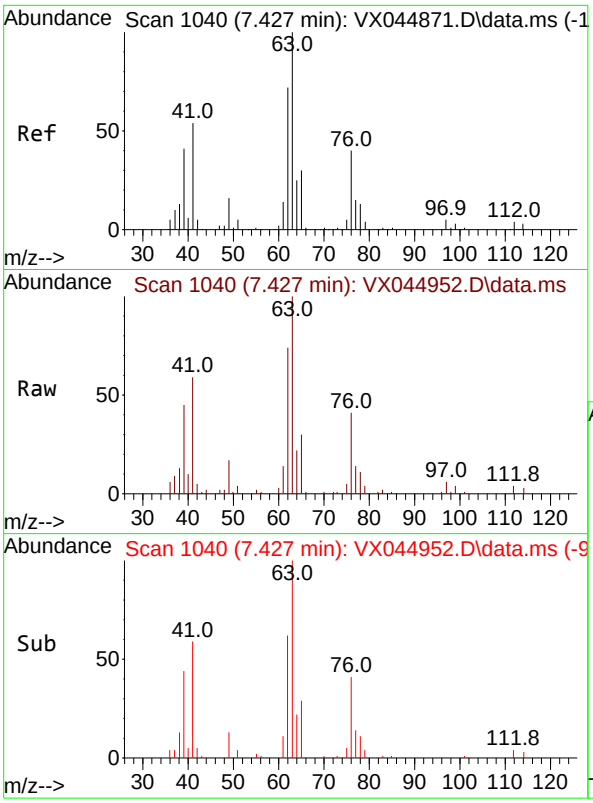


#44
Trichloroethene
Concen: 19.420 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:130 Resp: 24052

Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	202.4

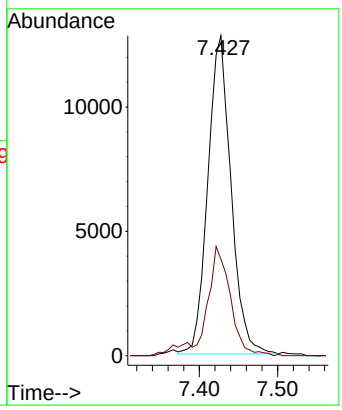




#45
1,2-Dichloropropane
Concen: 19.518 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 63 Resp: 2631

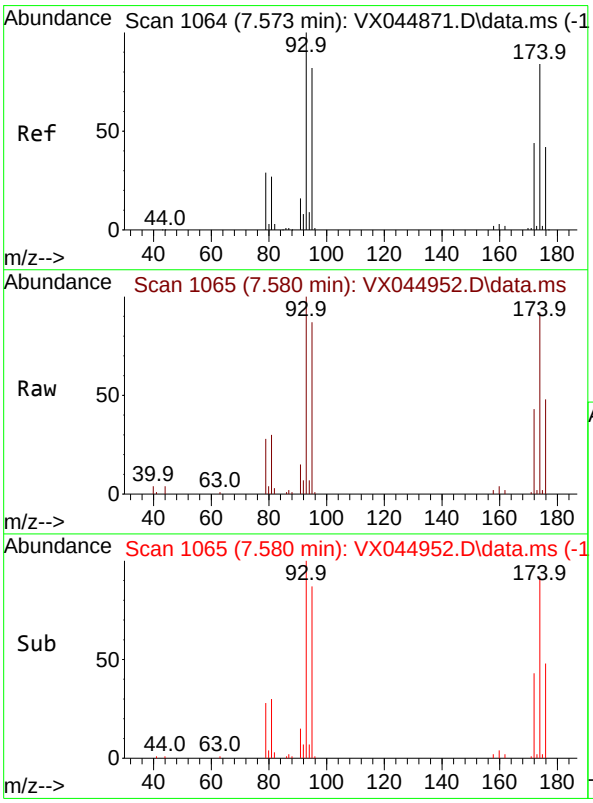
Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

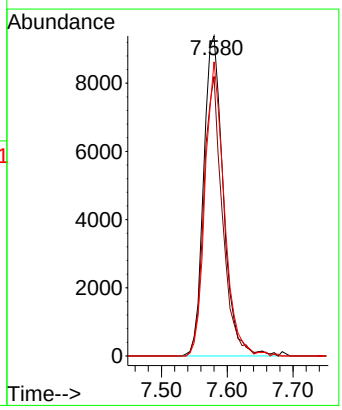
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

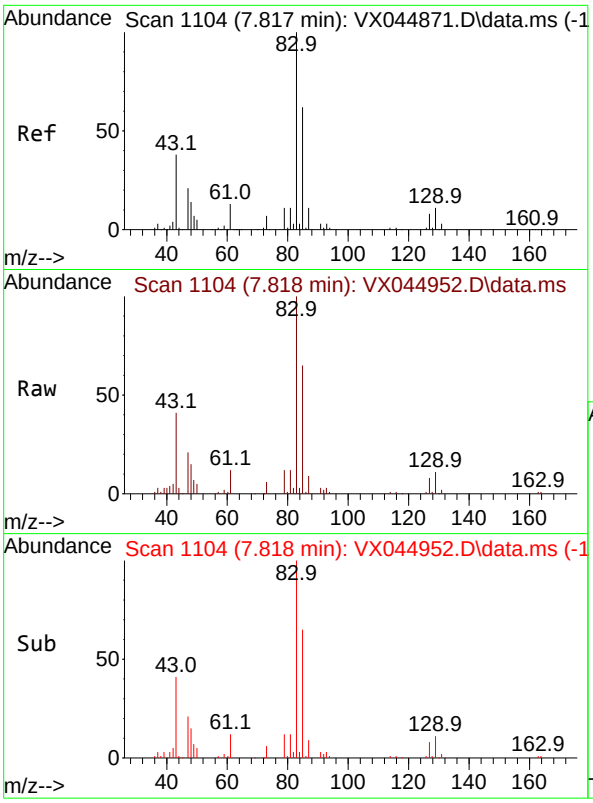


#46
Dibromomethane
Concen: 20.875 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 93 Resp: 19515

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.2	99.4
174	90.0	69.9	104.9

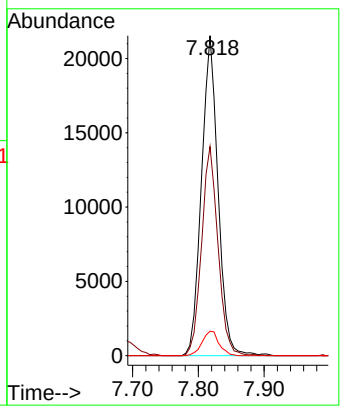




#47
Bromodichloromethane
Concen: 20.853 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 83 Resp: 3774

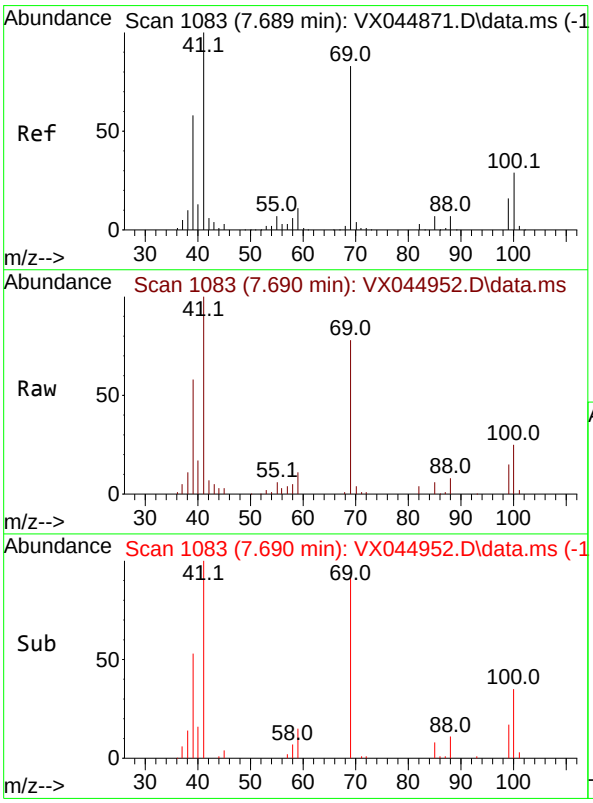
Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.0	75.0
127	7.7	6.4	9.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

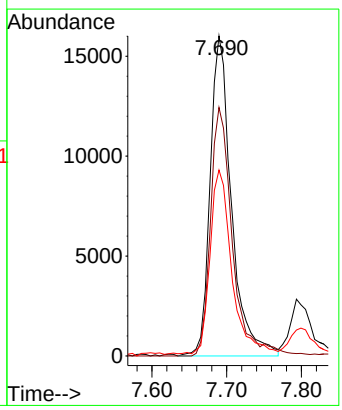
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

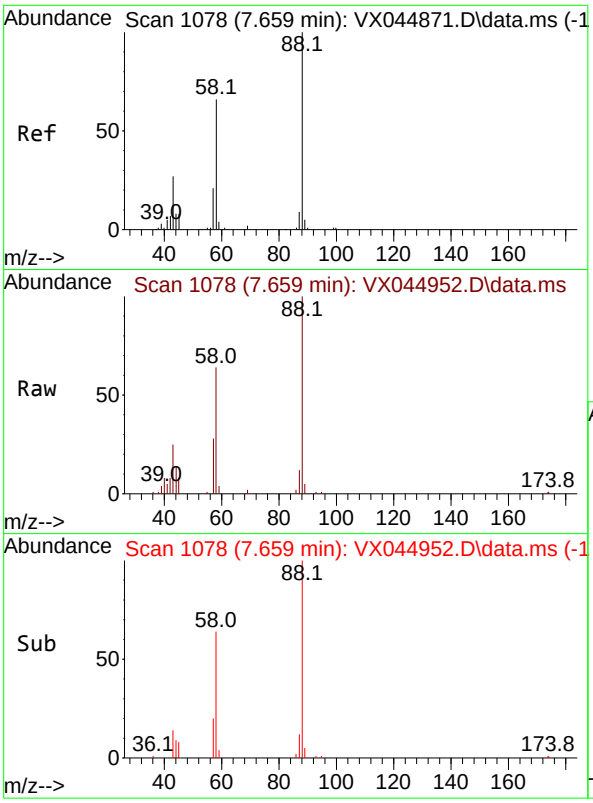


#48
Methyl methacrylate
Concen: 21.671 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 41 Resp: 31848

Ion	Ratio	Lower	Upper
41	100		
69	79.7	65.8	98.8
39	60.1	46.4	69.6





#49
1,4-Dioxane
Concen: 443.448 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

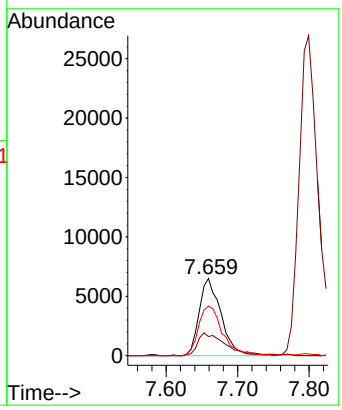
Tgt Ion: 88 Resp: 1398

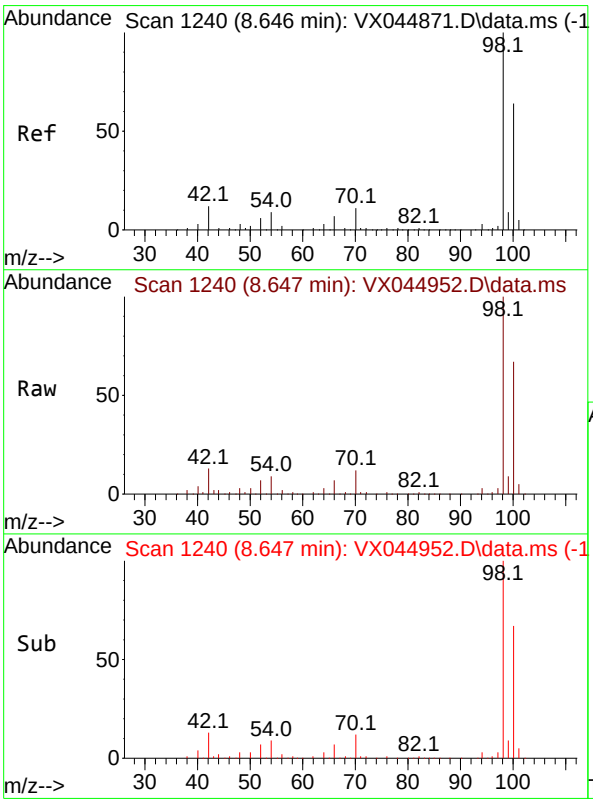
Ion	Ratio	Lower	Upper
88	100		
43	35.9	26.6	39.8
58	69.9	55.9	83.9

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

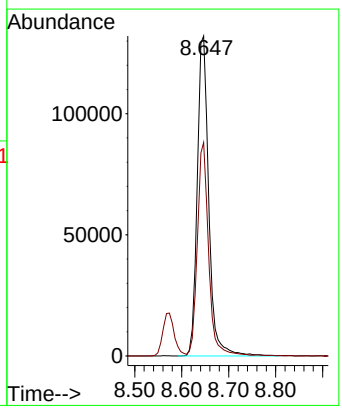


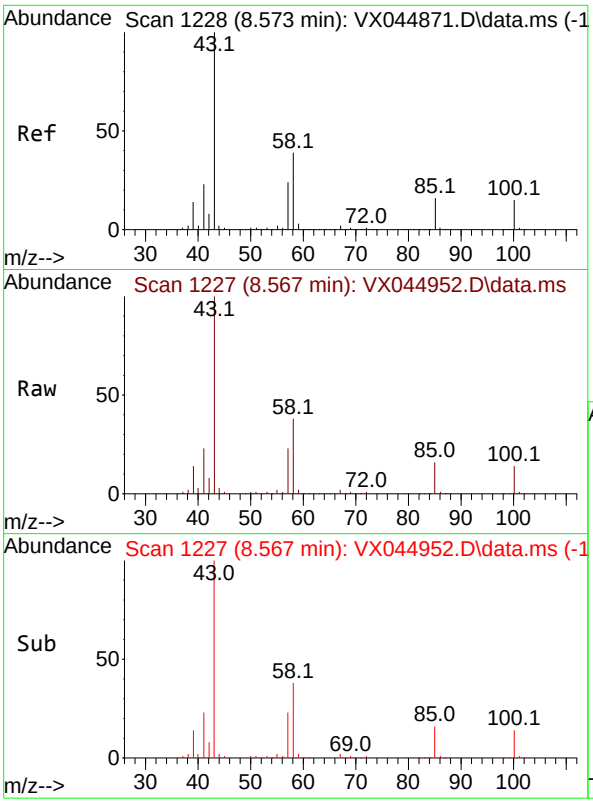


#50
Toluene-d8
Concen: 49.828 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 98 Resp: 226624

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.7	79.1

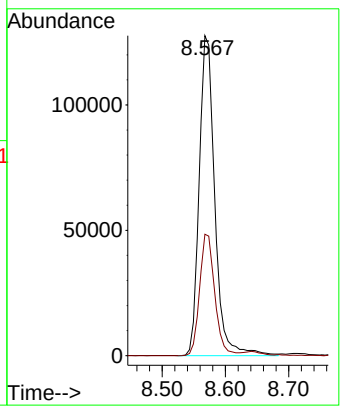




#51
4-Methyl-2-Pentanone
Concen: 115.888 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 21958

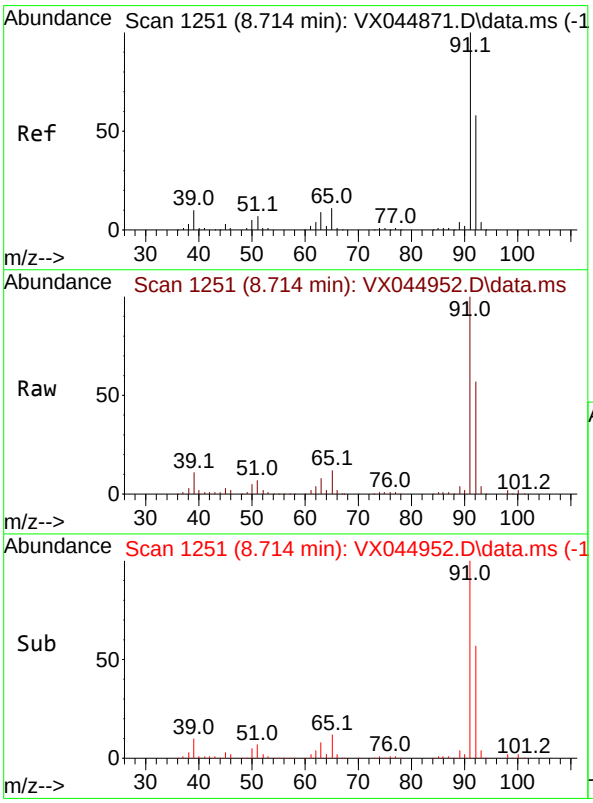
Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.8	46.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

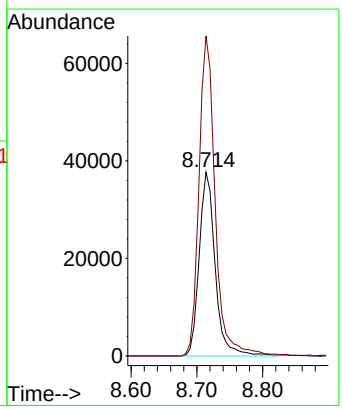
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

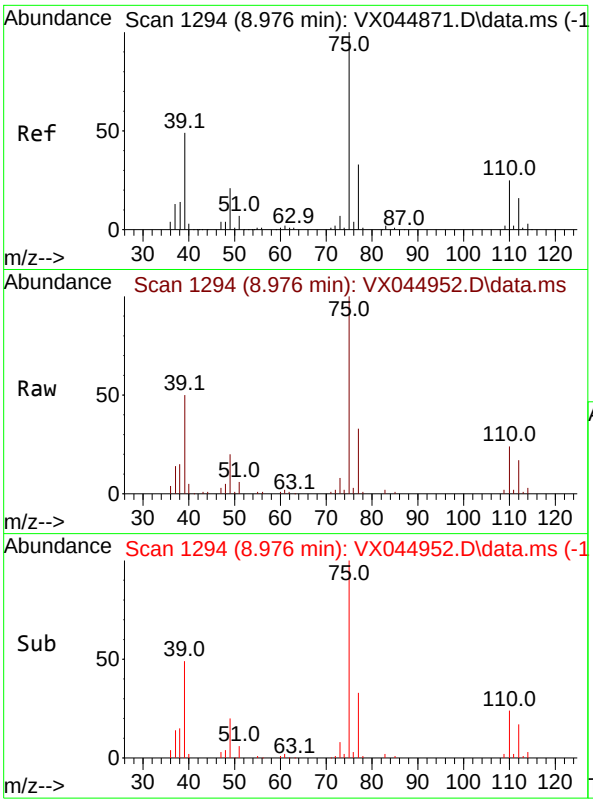


#52
Toluene
Concen: 19.780 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 92 Resp: 63830

Ion	Ratio	Lower	Upper
92	100		
91	176.5	137.4	206.2

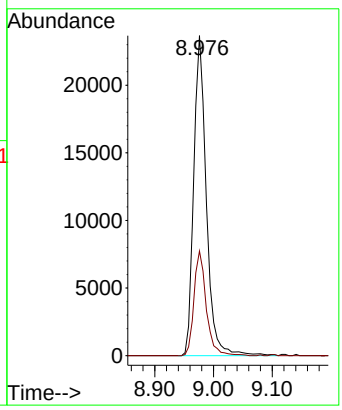




#53
t-1,3-Dichloropropene
Concen: 19.296 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 3534

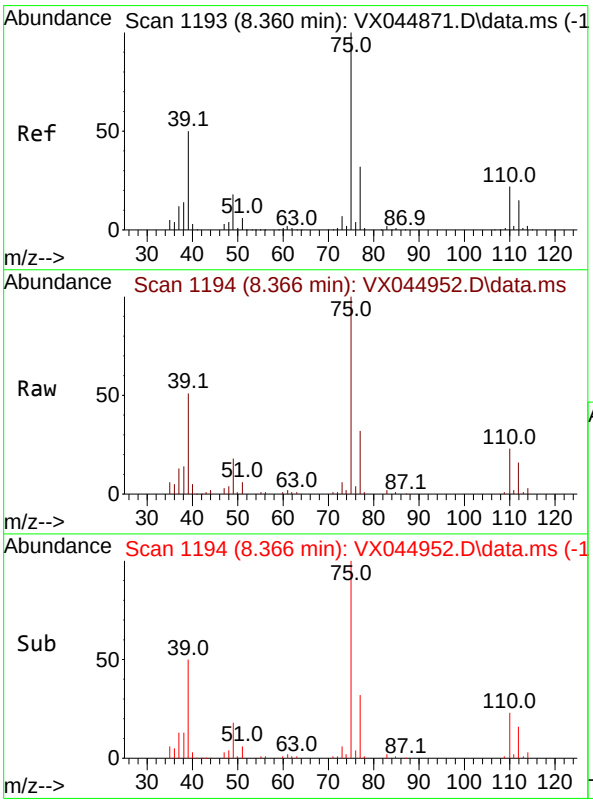
Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

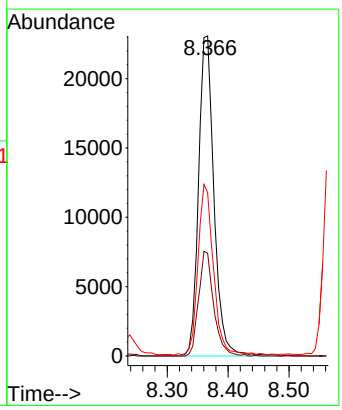
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

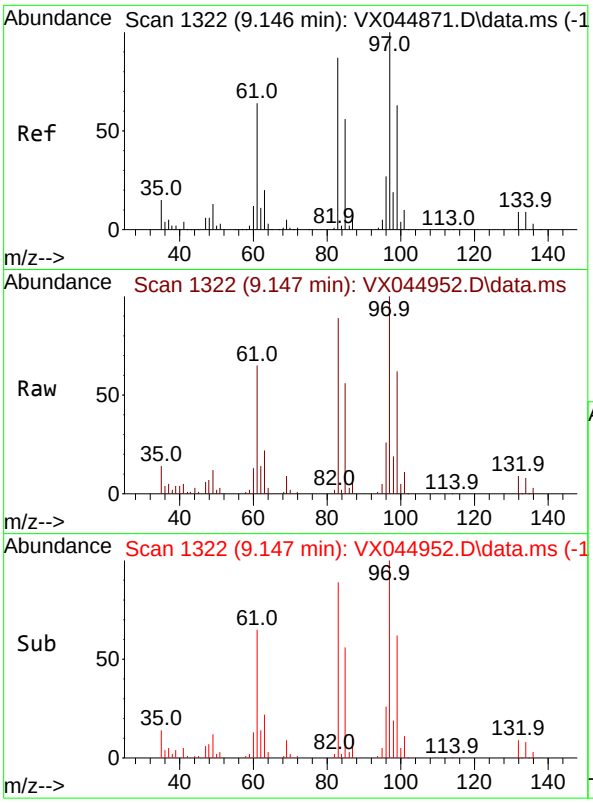


#54
cis-1,3-Dichloropropene
Concen: 19.889 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 40620

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.3	37.9
39	50.6	40.0	60.0

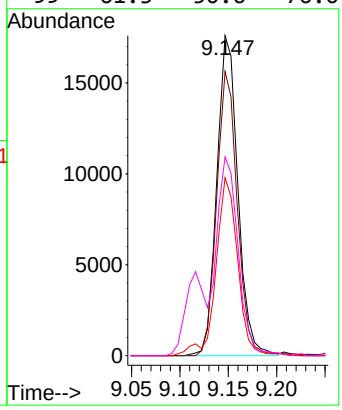




#55
1,1,2-Trichloroethane
Concen: 21.408 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 97 Resp: 2655

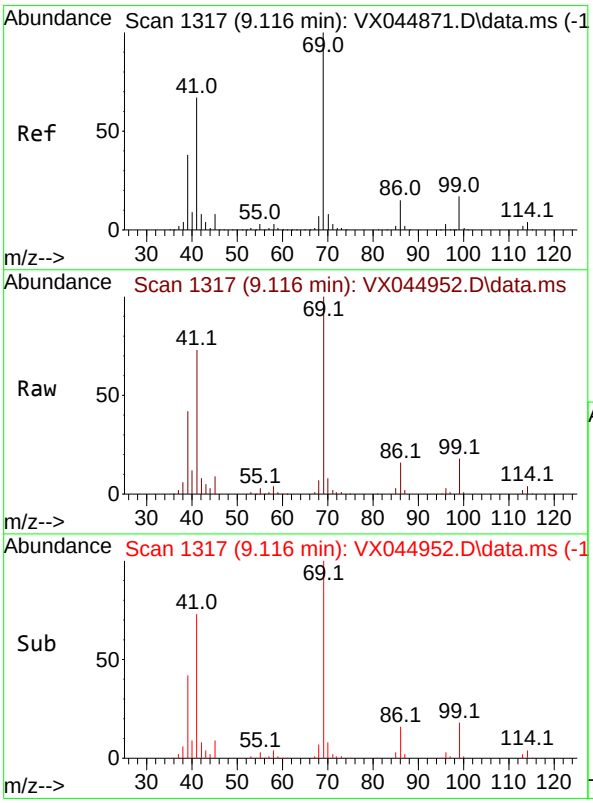
Ion	Ratio	Lower	Upper
97	100		
83	88.8	69.8	104.6
85	55.0	44.8	67.2
99	61.3	50.6	76.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

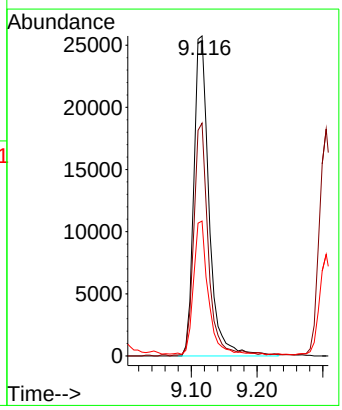
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

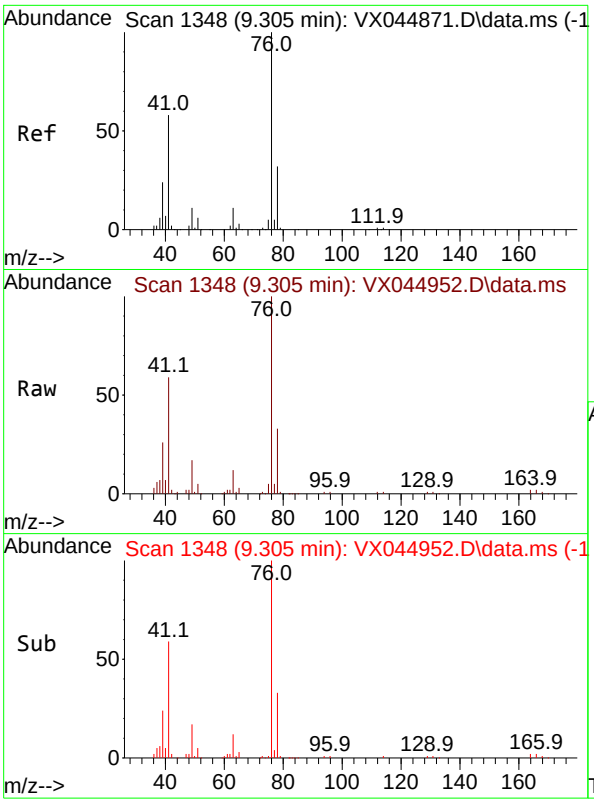


#56
Ethyl methacrylate
Concen: 20.600 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 69 Resp: 41272

Ion	Ratio	Lower	Upper
69	100		
41	69.9	55.2	82.8
39	38.8	30.8	46.2





#57
1,3-Dichloropropane
Concen: 21.061 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

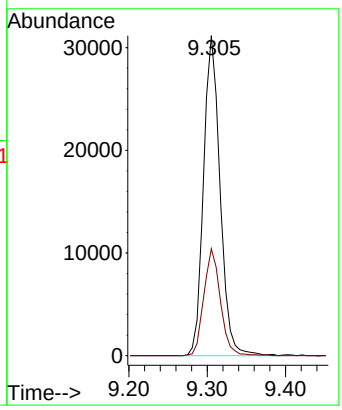
Tgt Ion: 76 Resp: 4571

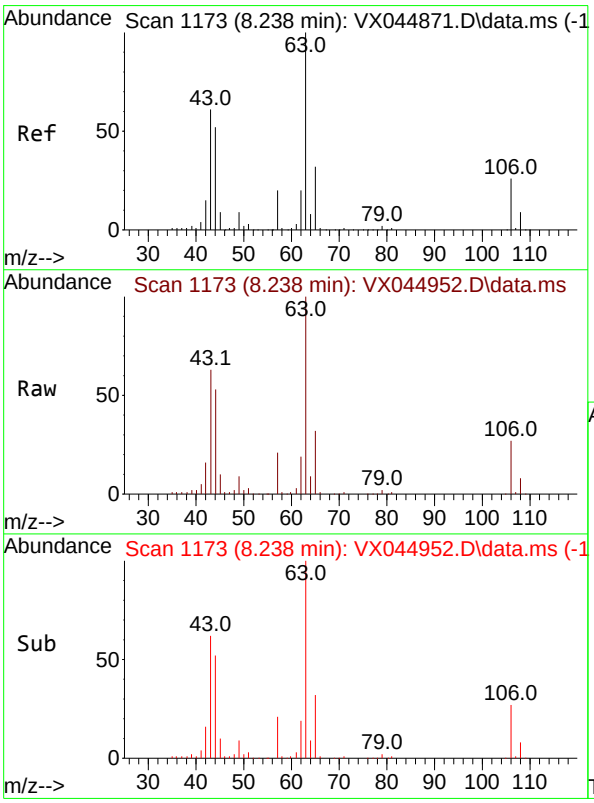
Ion	Ratio	Lower	Upper
76	100		
78	33.5	25.8	38.8

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

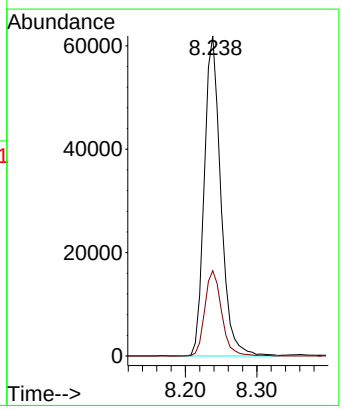


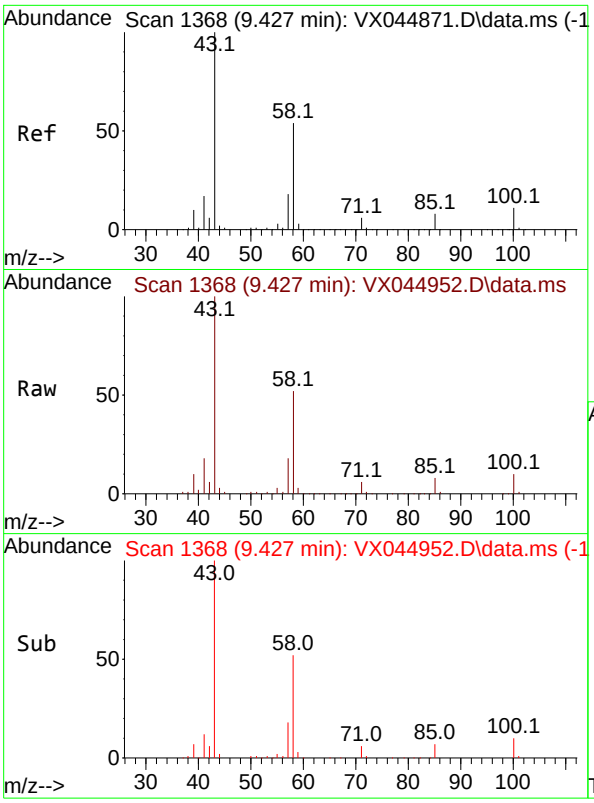


#58
2-Chloroethyl Vinyl ether
Concen: 101.176 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 63 Resp: 99532

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.3	31.9

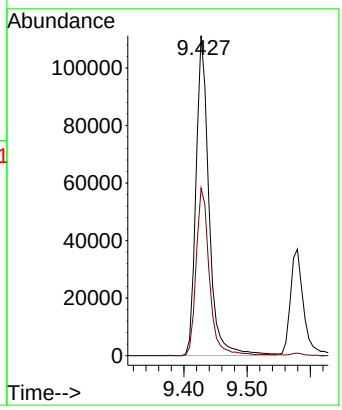




#59
2-Hexanone
Concen: 116.671 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 15928

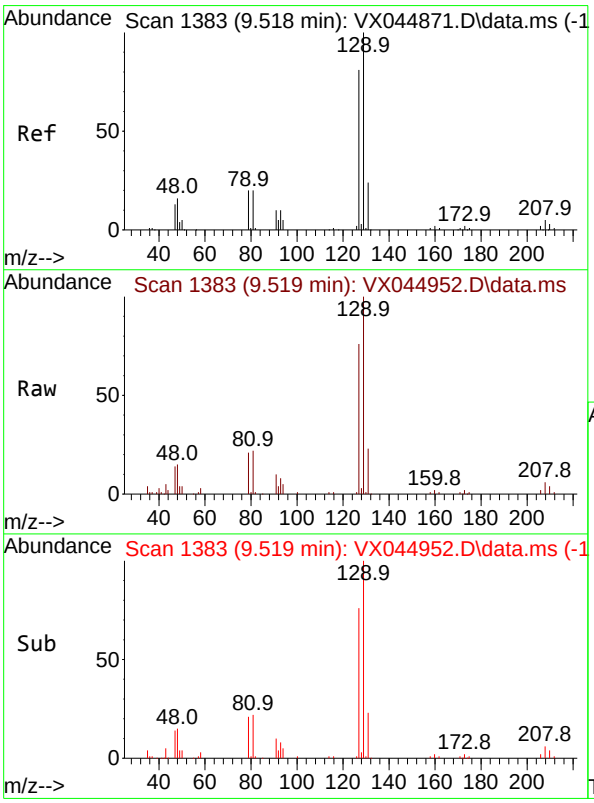
Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.5	82.4



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

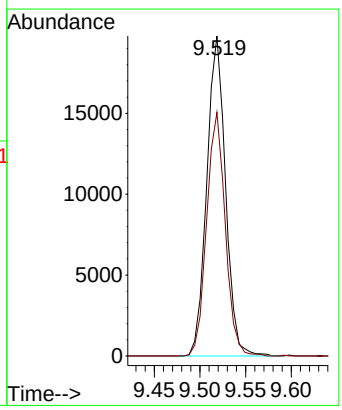
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

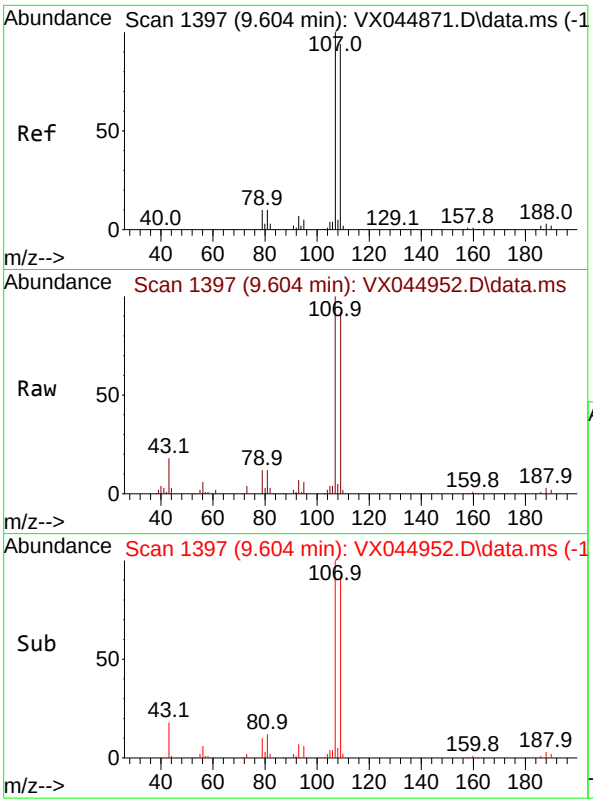


#60
Dibromochloromethane
Concen: 21.203 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:129 Resp: 28129

Ion	Ratio	Lower	Upper
129	100		
127	75.6	39.1	117.3

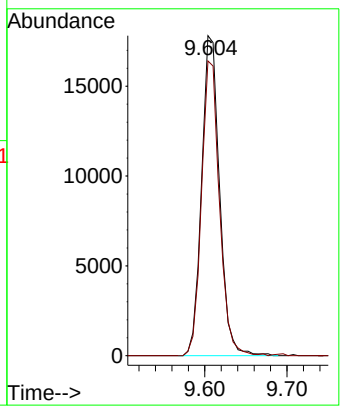




#61
1,2-Dibromoethane
Concen: 21.494 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:107 Resp: 2702

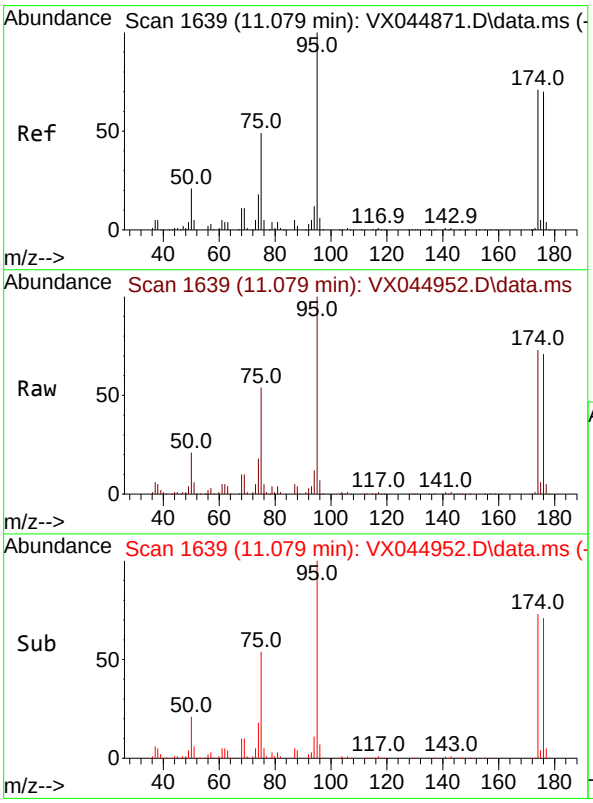
Ion	Ratio	Lower	Upper
107	100		
109	92.2	75.9	113.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

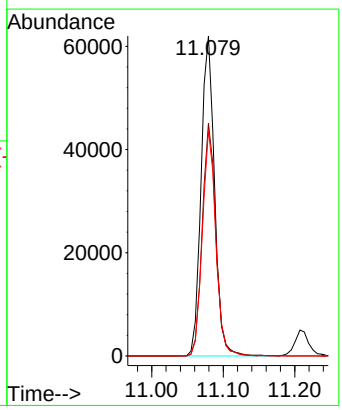
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

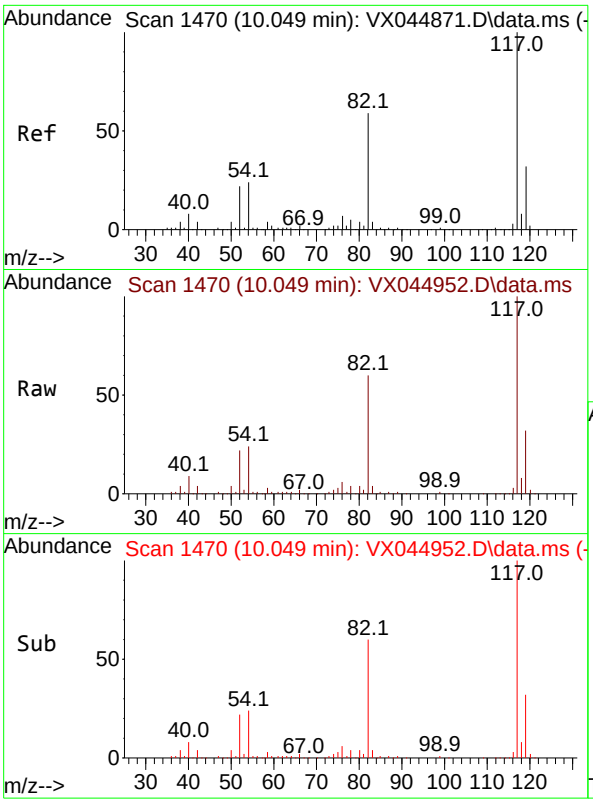


#62
4-Bromofluorobenzene
Concen: 52.833 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 95 Resp: 81007

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	142.6
176	70.3	0.0	141.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

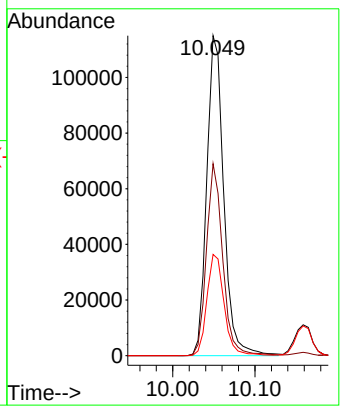
Tgt Ion:117 Resp: 16488

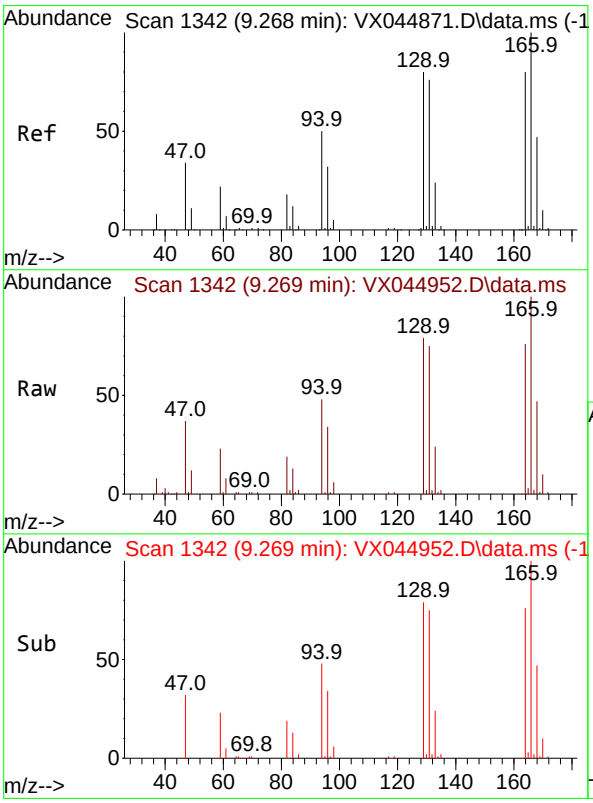
Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.5	71.3
119	31.6	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

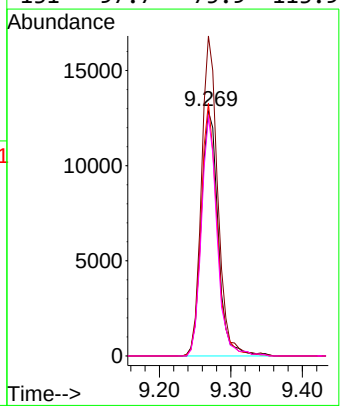


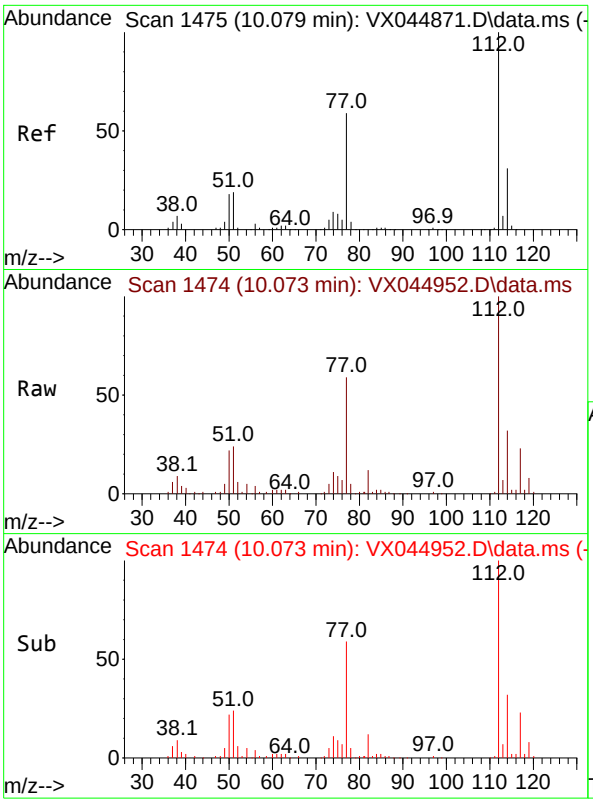


#64
Tetrachloroethene
Concen: 20.294 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:164 Resp: 21103

Ion	Ratio	Lower	Upper
164	100		
166	130.8	100.4	150.6
129	103.4	79.9	119.9
131	97.7	75.9	113.9

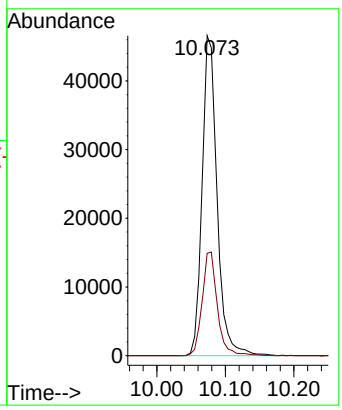




#65
Chlorobenzene
Concen: 20.006 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:112 Resp: 7085

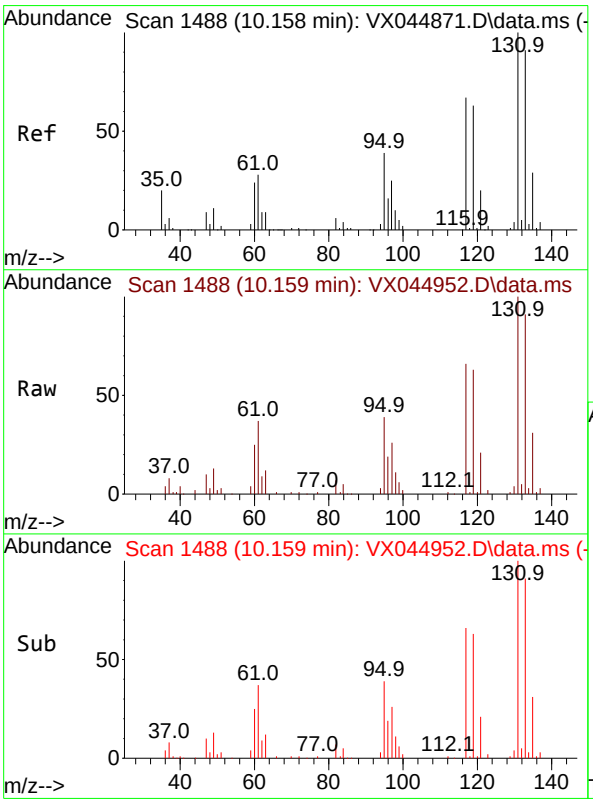
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

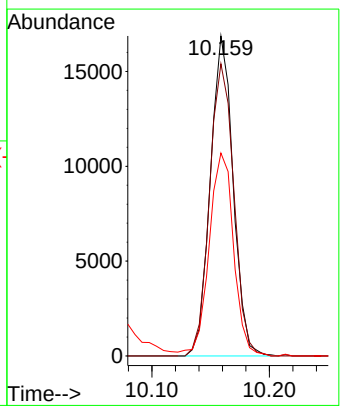
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

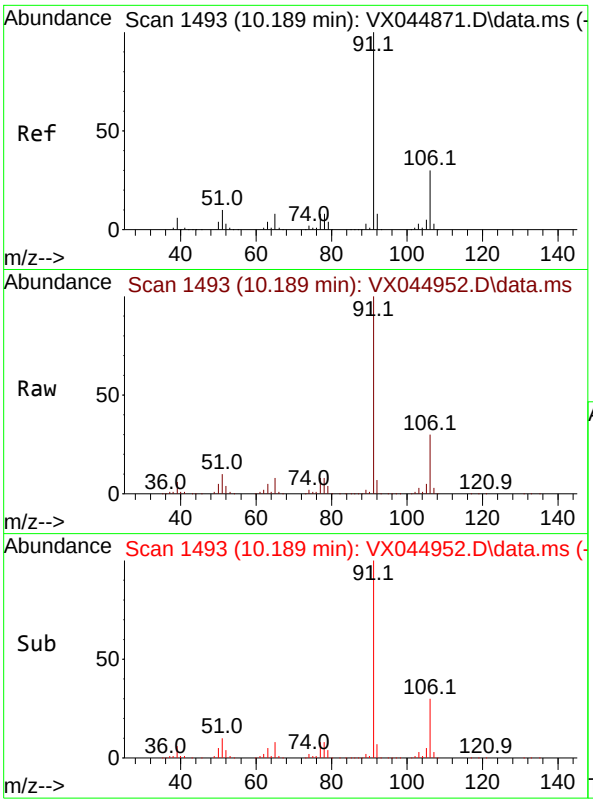


#66
1,1,1,2-Tetrachloroethane
Concen: 19.951 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:131 Resp: 22743

Ion	Ratio	Lower	Upper
131	100		
133	97.0	47.1	141.3
119	67.9	33.6	100.6





#67
Ethyl Benzene
Concen: 19.631 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

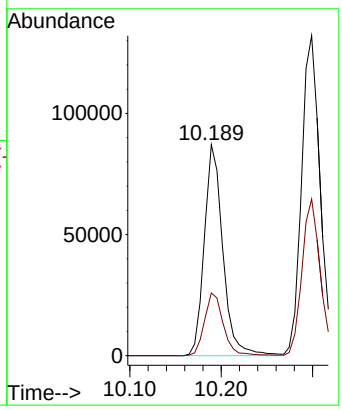
Tgt Ion: 91 Resp: 12268

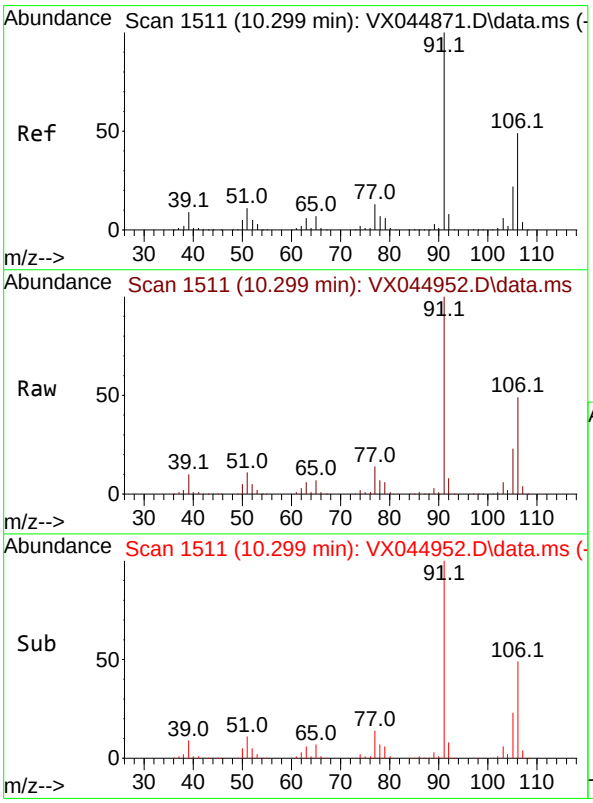
Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

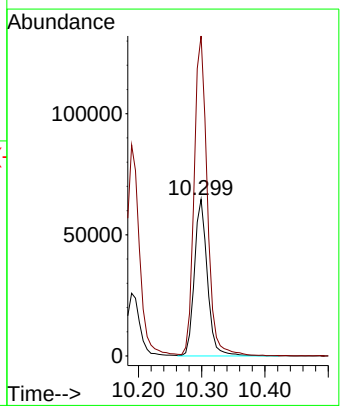


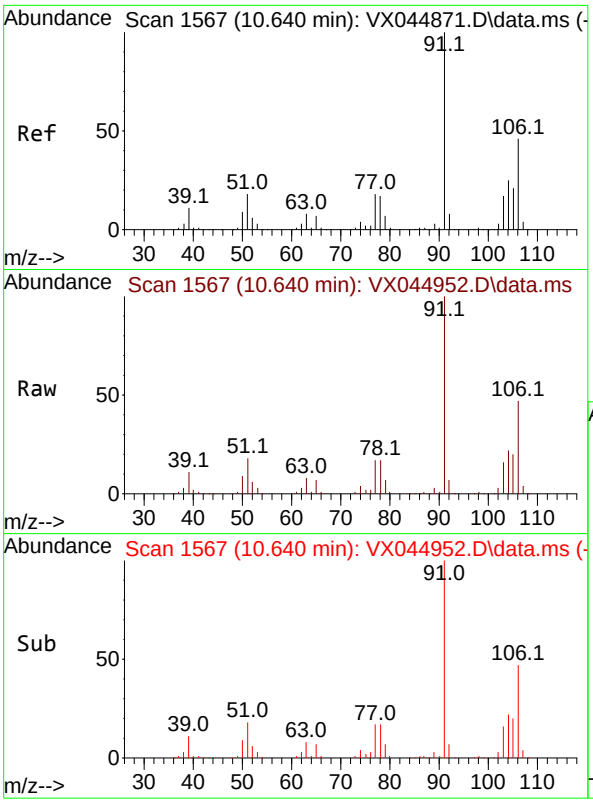


#68
m/p-Xylenes
Concen: 40.136 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:106 Resp: 92530

Ion	Ratio	Lower	Upper
106	100		
91	207.2	164.3	246.5

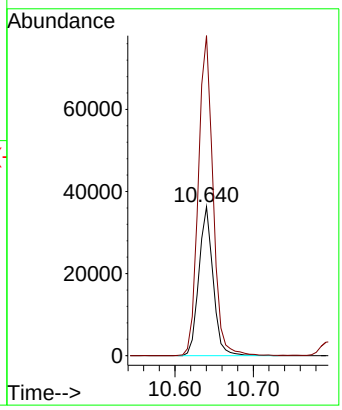




#69
o-Xylene
Concen: 19.838 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:106 Resp: 4589

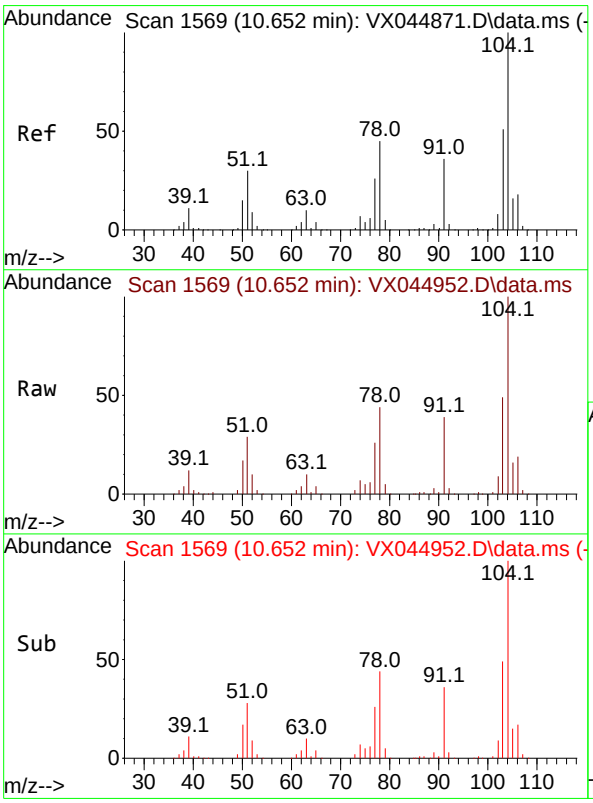
Ion	Ratio	Lower	Upper
106	100		
91	221.9	108.5	325.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

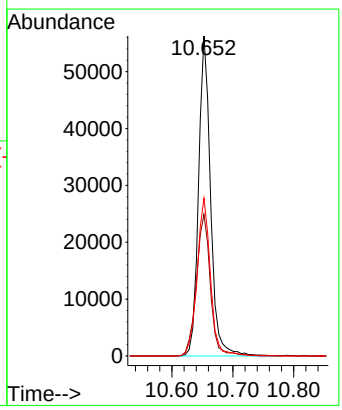
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

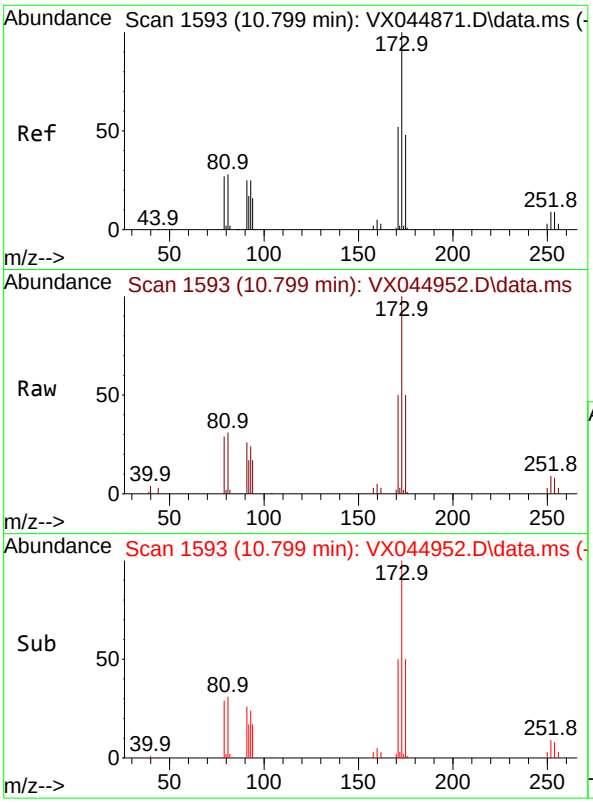


#70
Styrene
Concen: 20.741 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:104 Resp: 77302

Ion	Ratio	Lower	Upper
104	100		
78	51.2	40.5	60.7
103	54.7	43.6	65.4

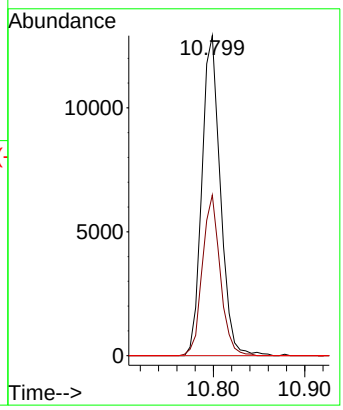




#71
Bromoform
Concen: 21.264 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:173 Resp: 1809

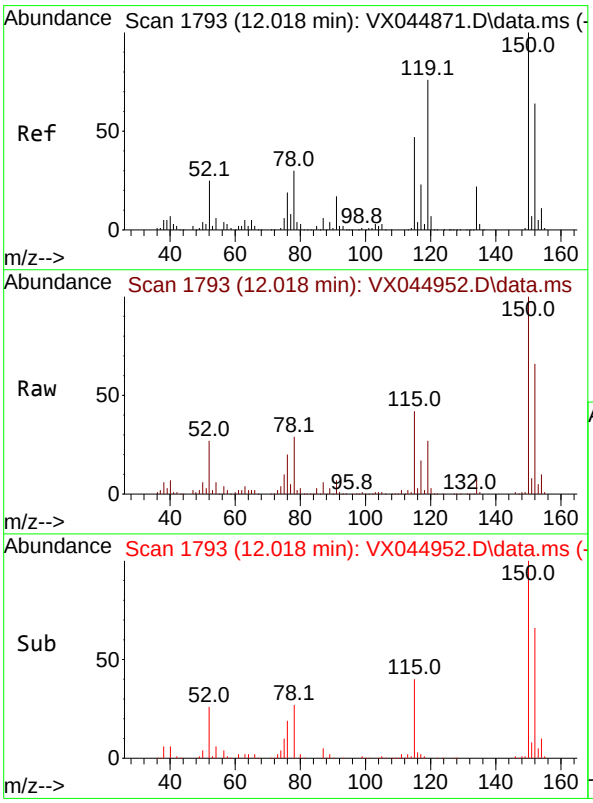
Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.3	72.8
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

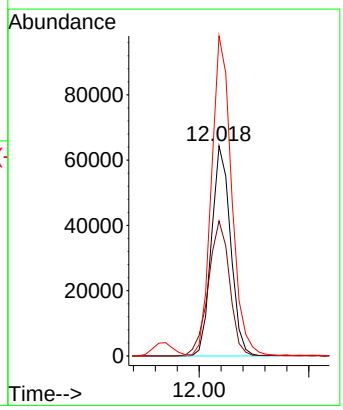
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

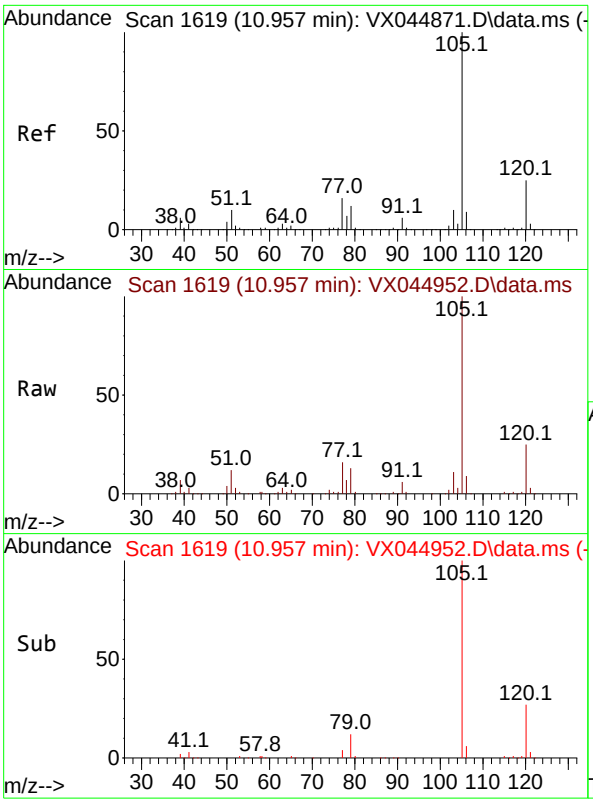


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:152 Resp: 77784

Ion	Ratio	Lower	Upper
152	100		
115	71.7	43.4	130.1
150	160.7	0.0	350.4





#73
Isopropylbenzene
Concen: 18.691 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

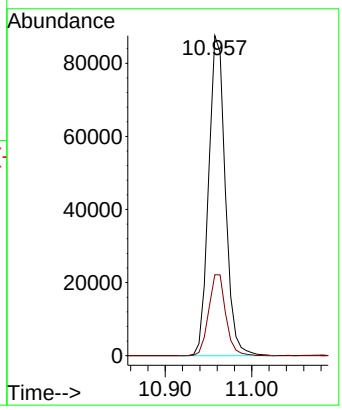
Tgt Ion:105 Resp: 11706

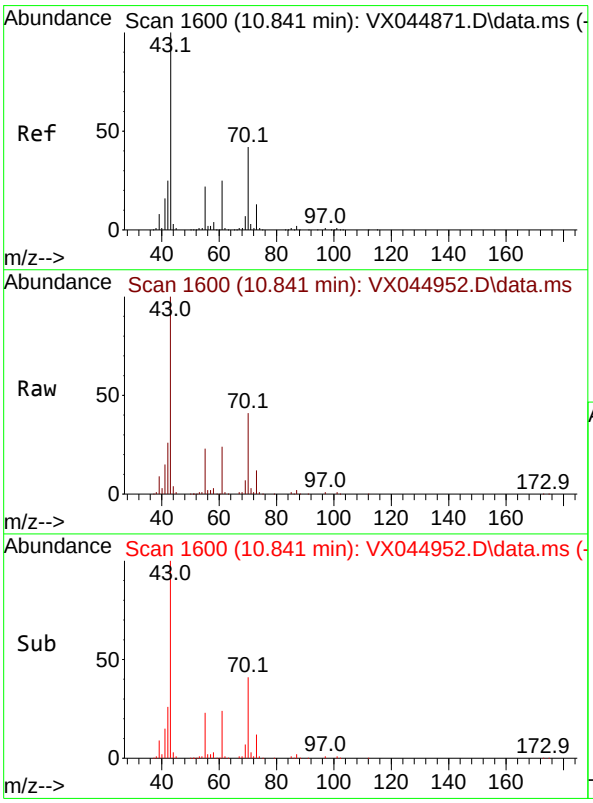
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

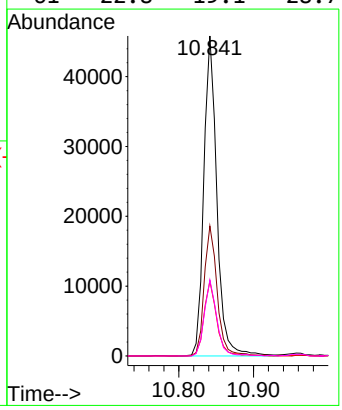


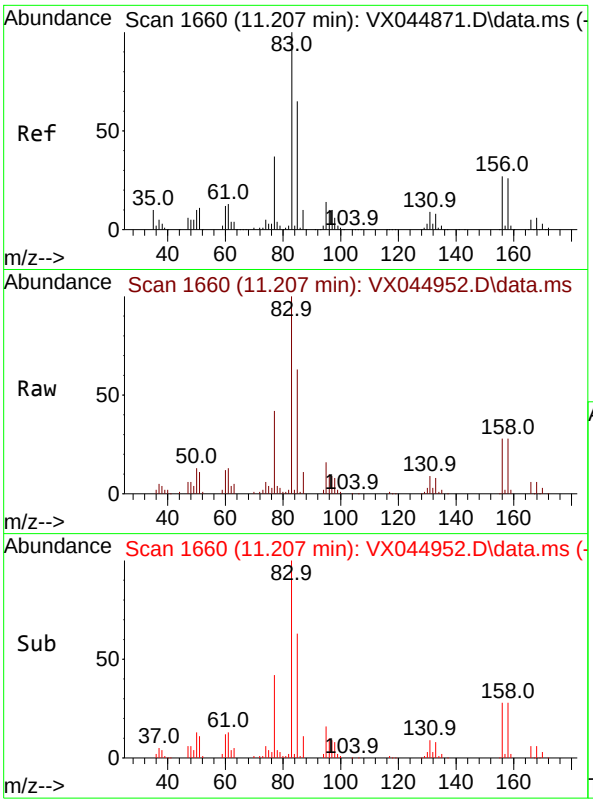


#74
N-amyl acetate
Concen: 19.604 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 55559

Ion	Ratio	Lower	Upper
43	100		
70	40.6	33.7	50.5
55	22.9	18.6	27.8
61	22.8	19.1	28.7

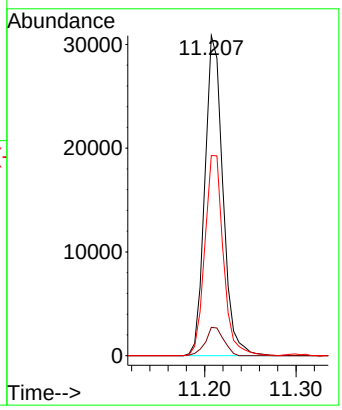




#75
1,1,2,2-Tetrachloroethane
Concen: 19.576 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 83 Resp: 4213

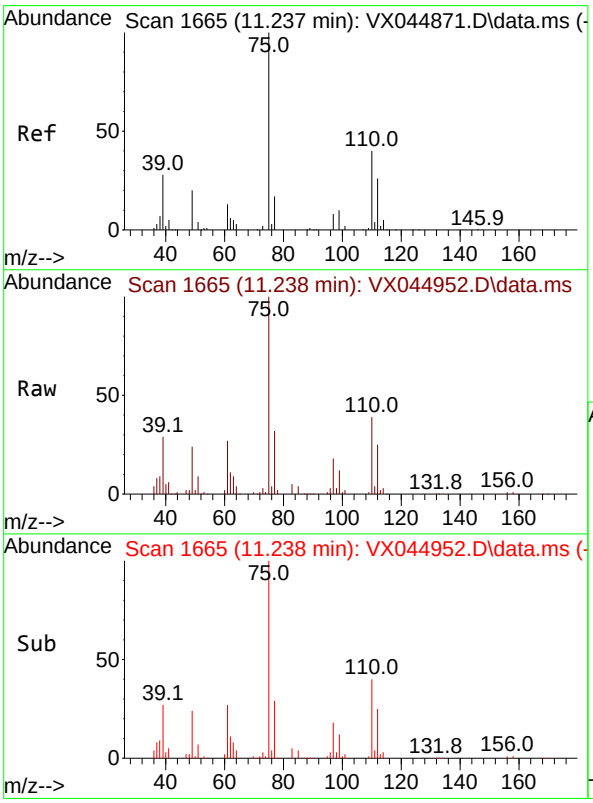
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.5
85	64.4	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

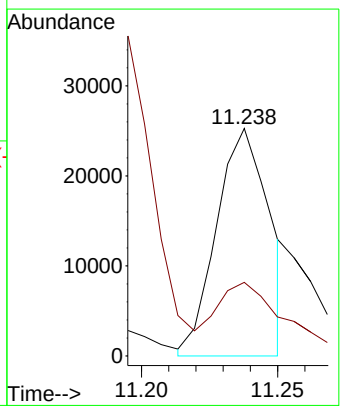
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

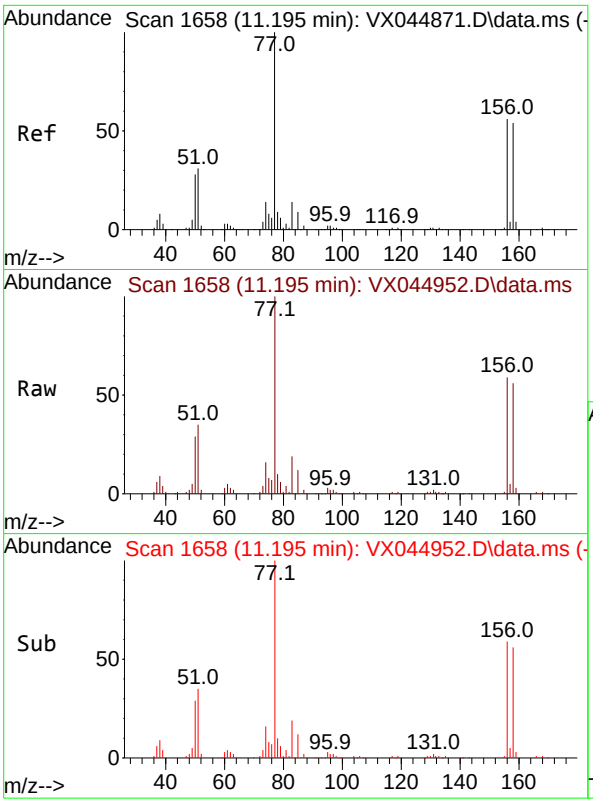


#76
1,2,3-Trichloropropane
Concen: 19.747 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 34055

Ion	Ratio	Lower	Upper
75	100		
77	42.3	21.9	65.7

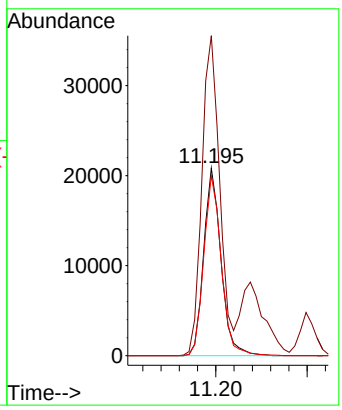




#77
Bromobenzene
Concen: 19.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:156 Resp: 2733

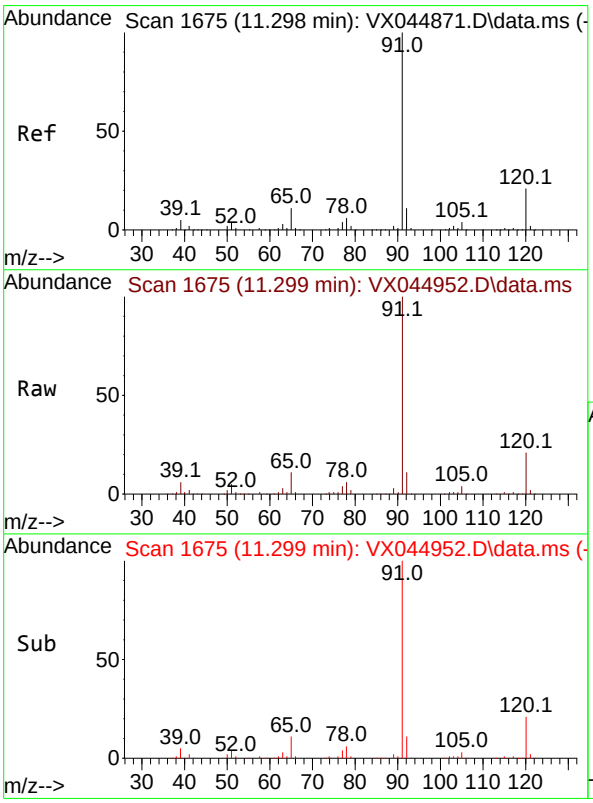
Ion	Ratio	Lower	Upper
156	100		
77	175.6	88.4	265.3
158	97.2	48.4	145.2



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

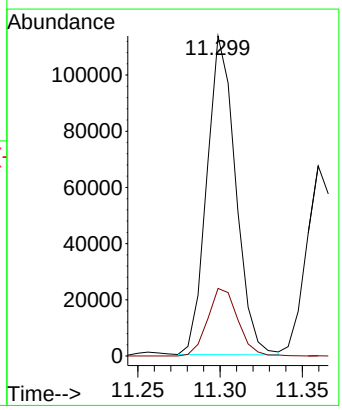
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

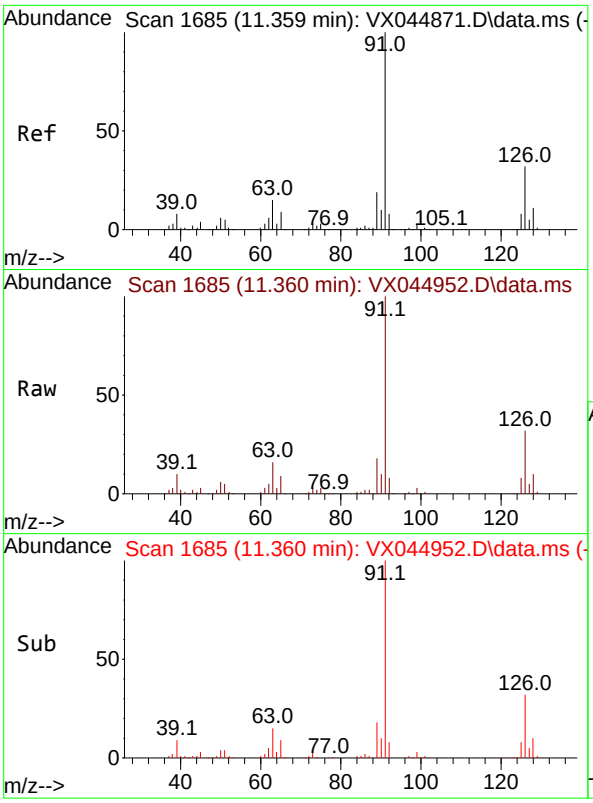


#78
n-propylbenzene
Concen: 19.101 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 91 Resp: 138085

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3

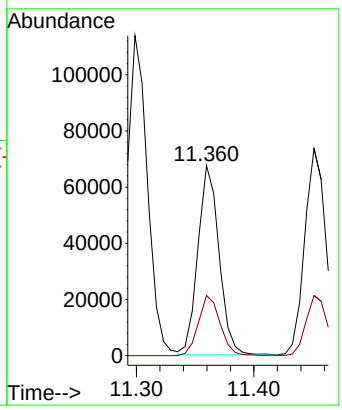




#79
2-Chlorotoluene
Concen: 18.982 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 91 Resp: 8433

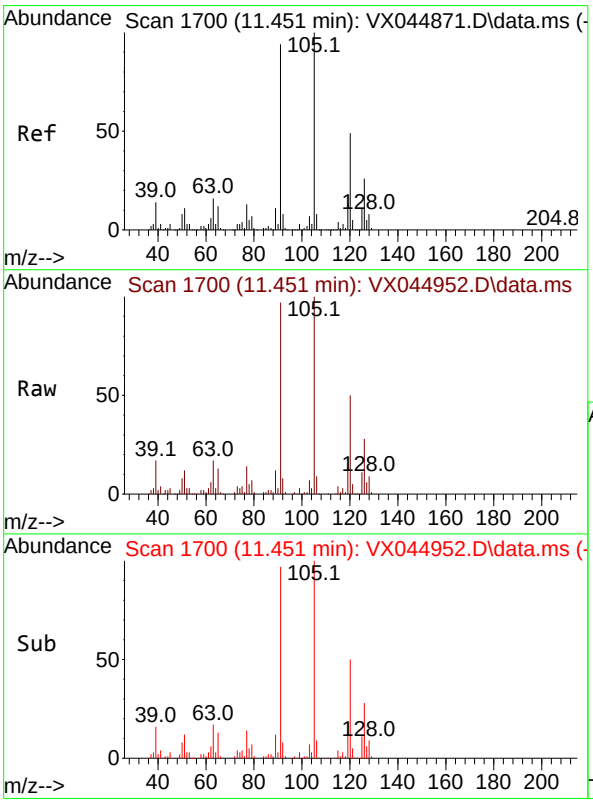
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.6



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

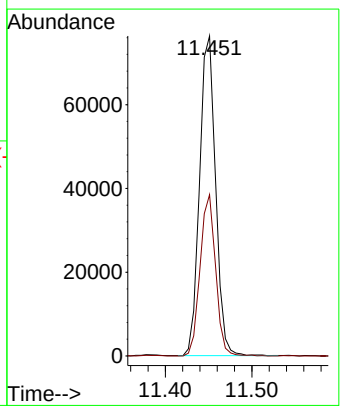
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

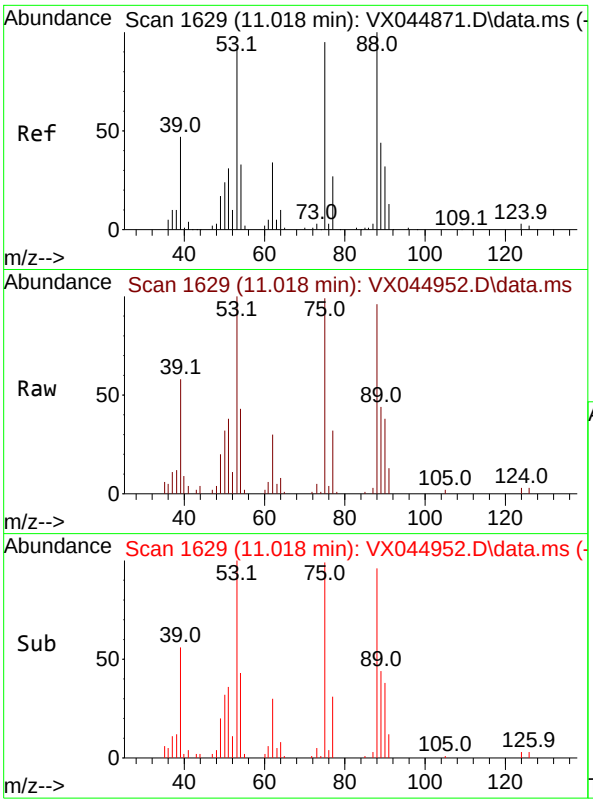


#80
1,3,5-Trimethylbenzene
Concen: 19.292 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:105 Resp: 98051

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.0	72.0

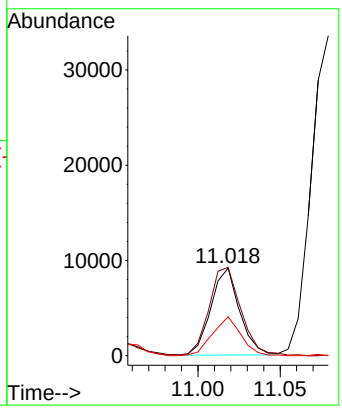




#81
trans-1,4-Dichloro-2-butene
Concen: 16.496 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 1105

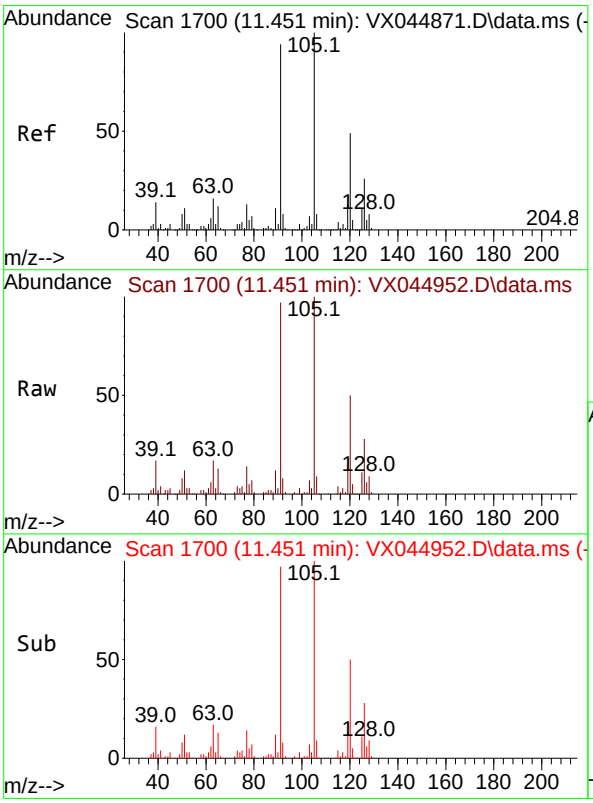
Ion	Ratio	Lower	Upper
75	100		
53	113.0	78.0	117.0
89	44.6	36.6	54.8



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

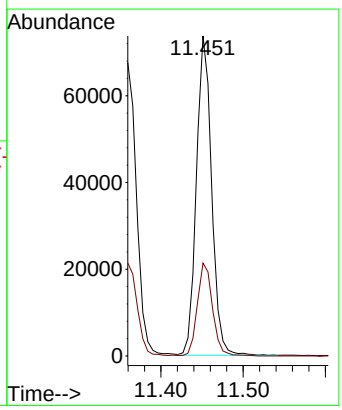
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

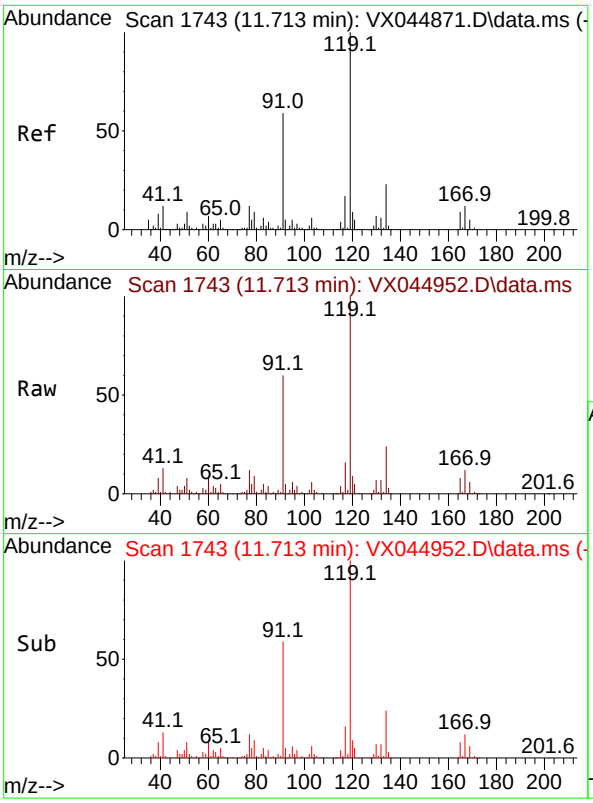


#82
4-Chlorotoluene
Concen: 19.233 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 91 Resp: 94538

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6

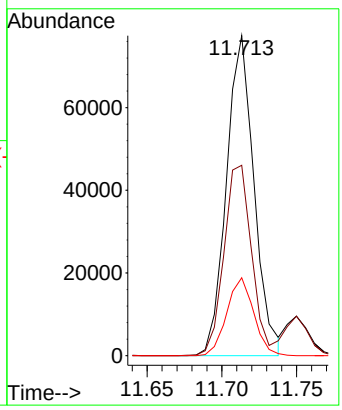




#83
tert-Butylbenzene
Concen: 19.359 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:119 Resp: 9953

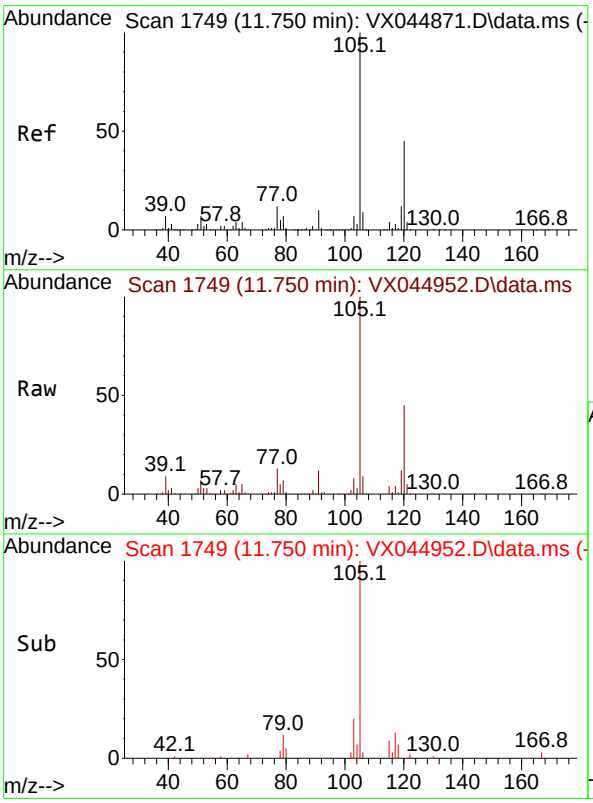
Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.1	87.4
134	23.7	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

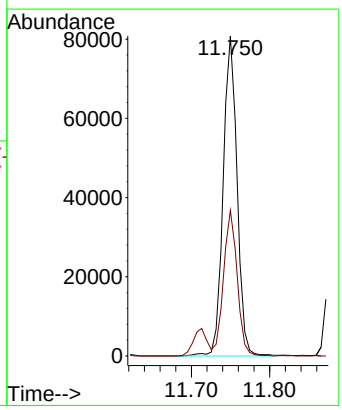
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

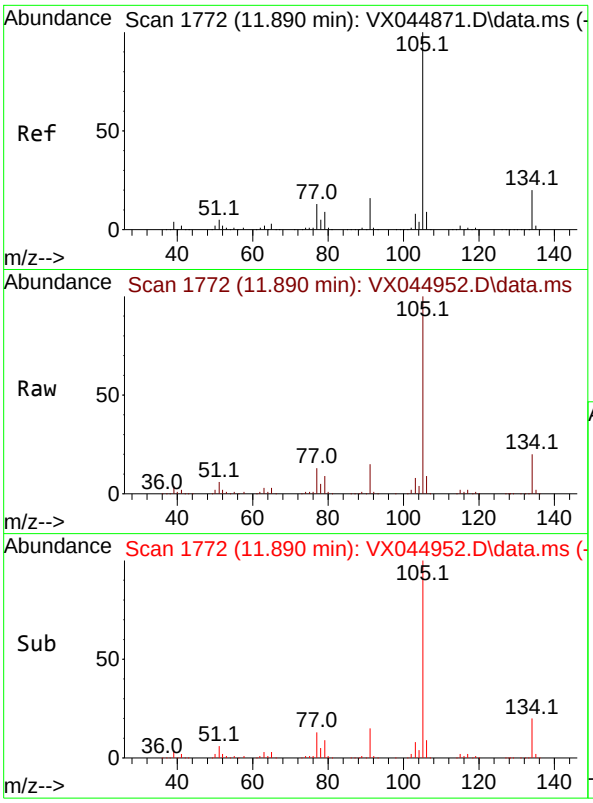


#84
1,2,4-Trimethylbenzene
Concen: 19.957 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:105 Resp: 100112

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.4	67.0





#85
sec-Butylbenzene
Concen: 19.808 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

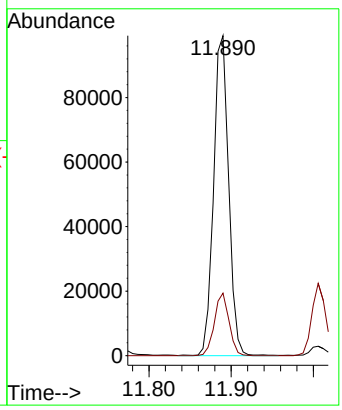
Tgt Ion:105 Resp: 12611

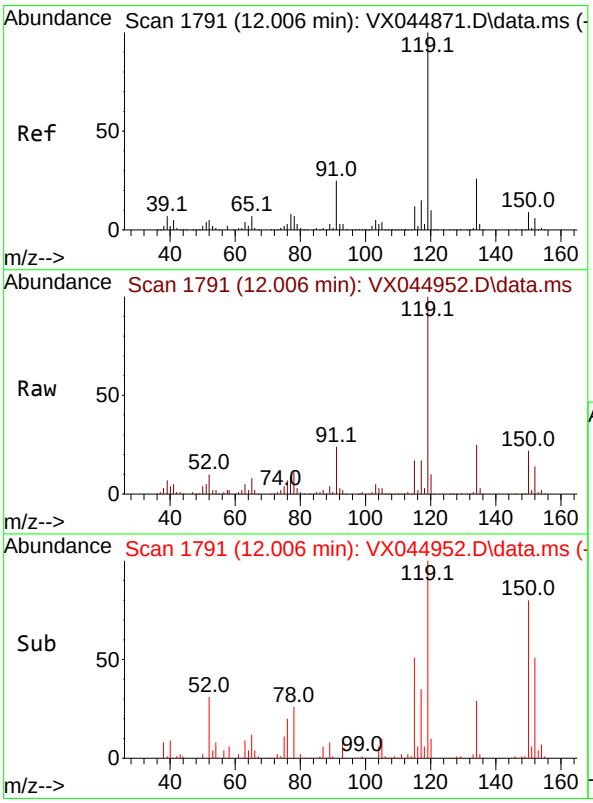
Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

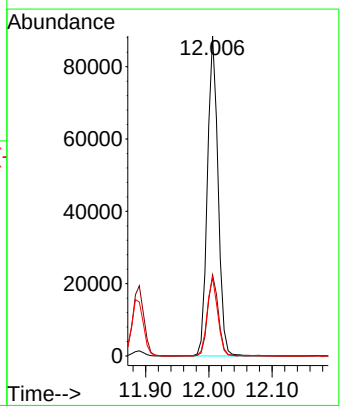


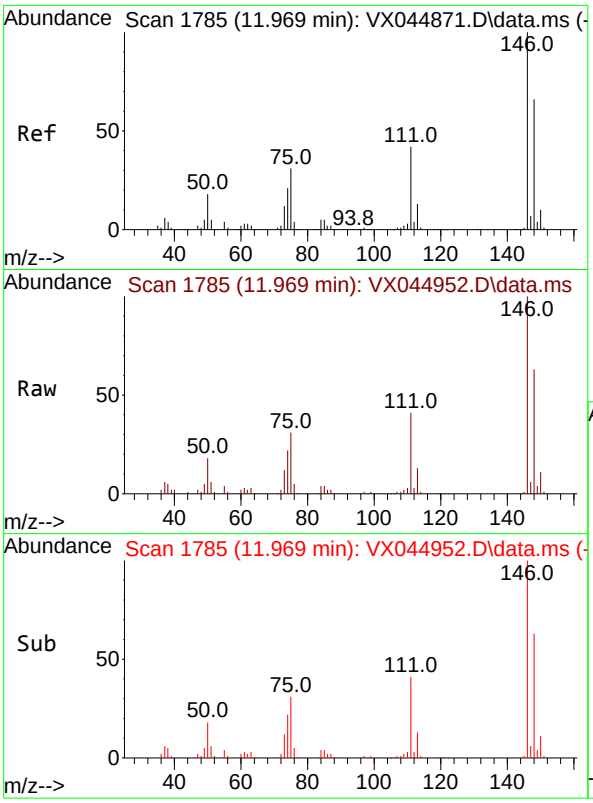


#86
p-Isopropyltoluene
Concen: 20.263 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:119 Resp: 103751

Ion	Ratio	Lower	Upper
119	100		
134	25.3	13.0	38.9
91	24.3	12.1	36.3

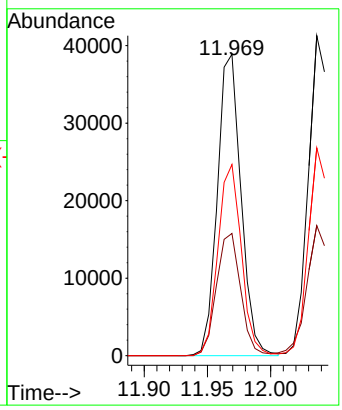




#87
1,3-Dichlorobenzene
Concen: 19.359 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:146 Resp: 5055

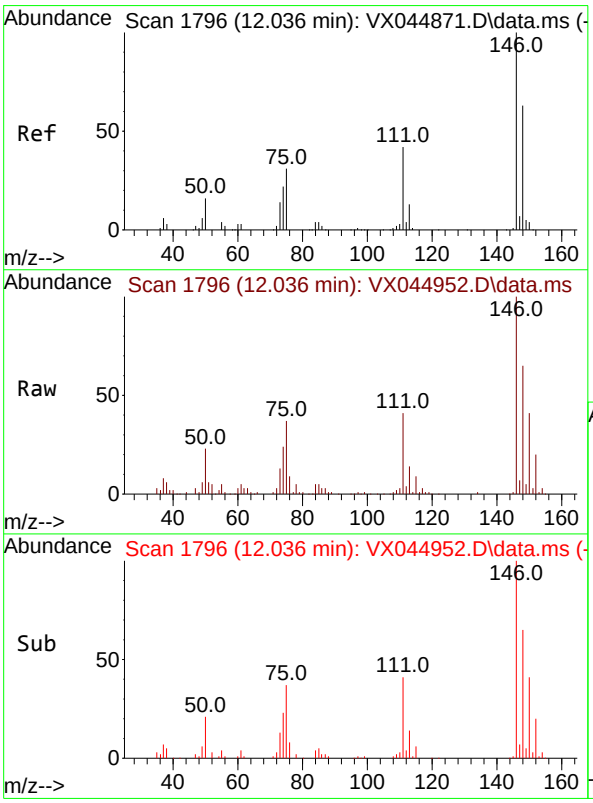
Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.2	63.6
148	62.9	32.5	97.5



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

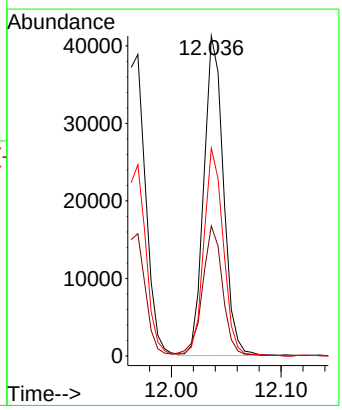
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

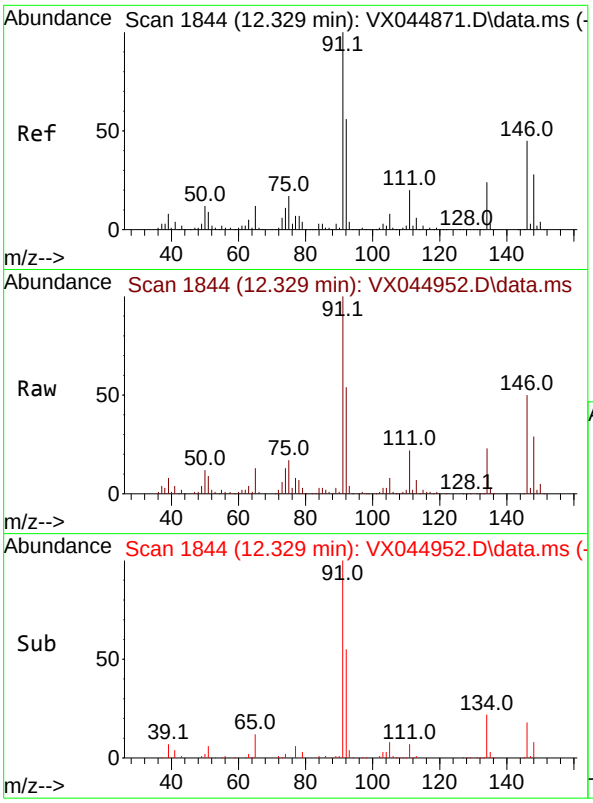


#88
1,4-Dichlorobenzene
Concen: 19.395 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:146 Resp: 51205

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.4	61.3
148	64.7	32.0	96.0





#89
n-Butylbenzene
Concen: 19.975 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

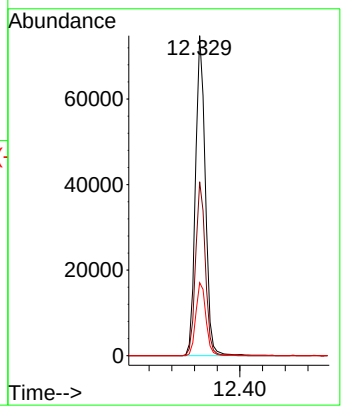
Tgt Ion: 91 Resp: 9048

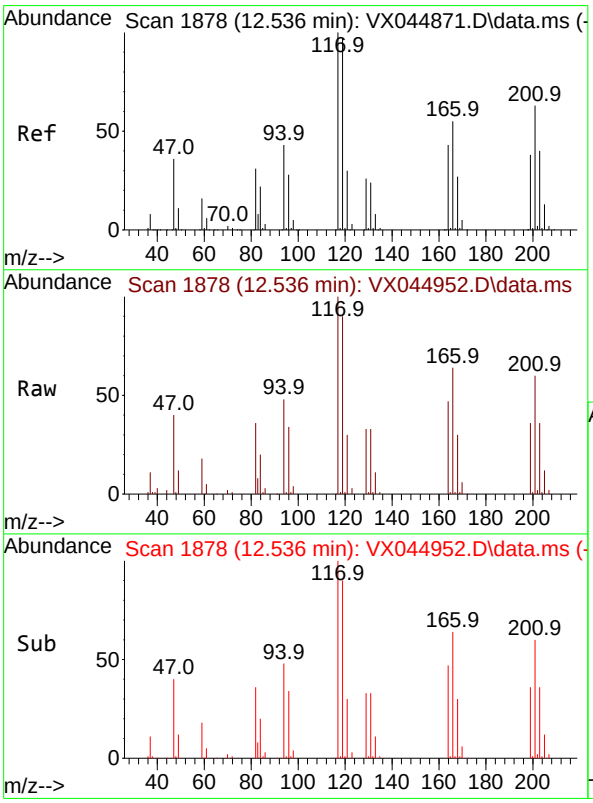
Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.2	81.6
134	23.3	12.1	36.3

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

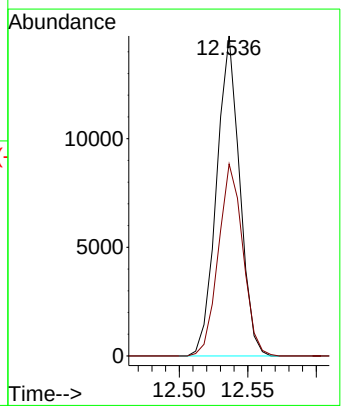


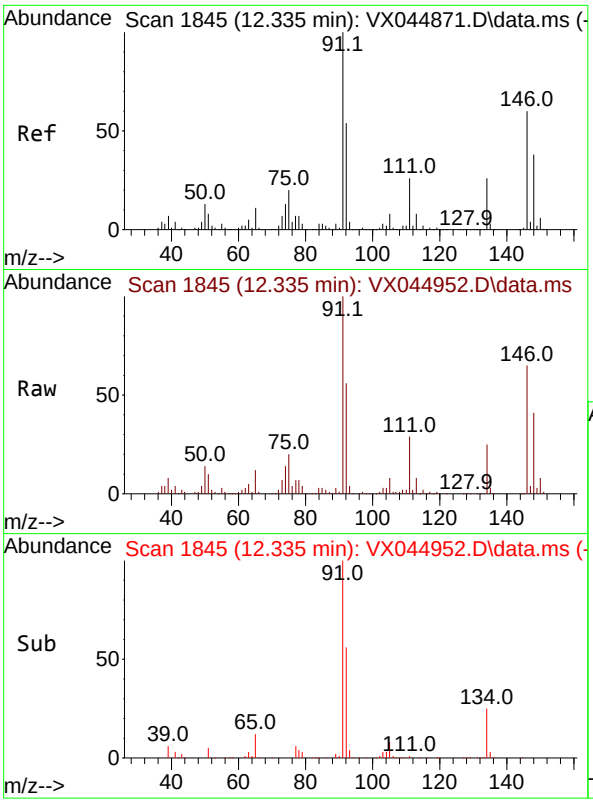


#90
Hexachloroethane
Concen: 17.989 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:117 Resp: 17246

Ion	Ratio	Lower	Upper
117	100		
201	63.8	32.5	97.5

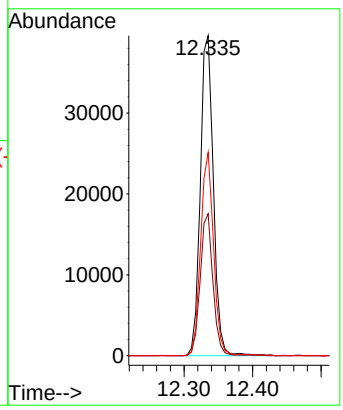




#91
1,2-Dichlorobenzene
Concen: 20.469 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:146 Resp: 5253

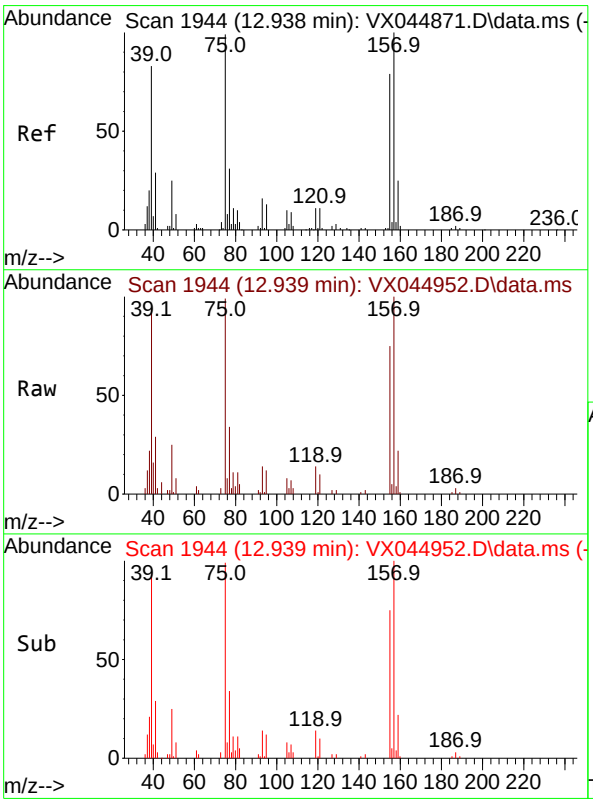
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.8	65.4
148	62.6	31.9	95.9



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

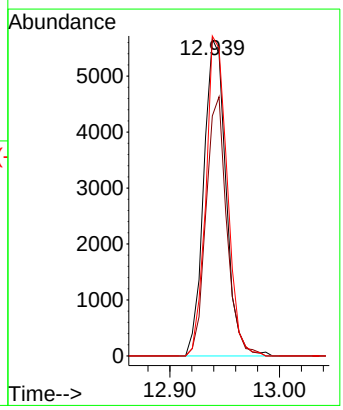
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

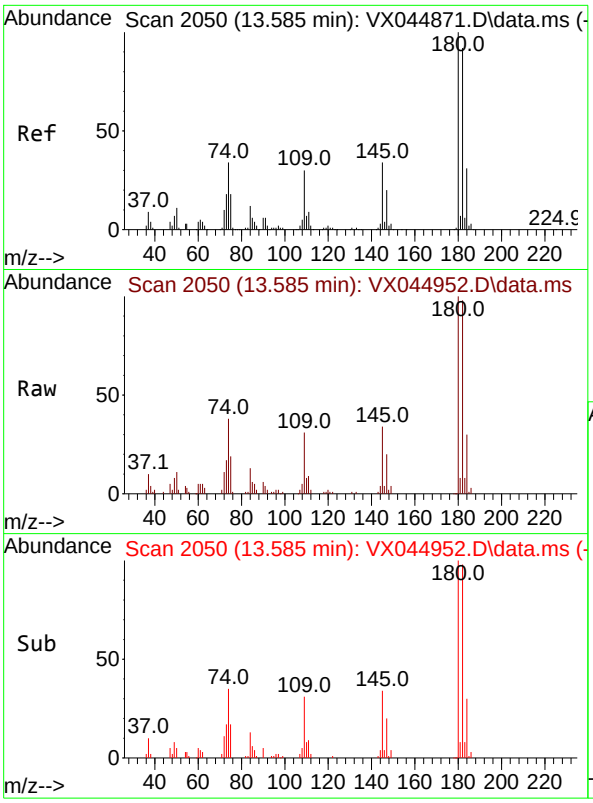


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.217 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 7941

Ion	Ratio	Lower	Upper
75	100		
155	76.6	40.5	121.4
157	96.7	51.4	154.3

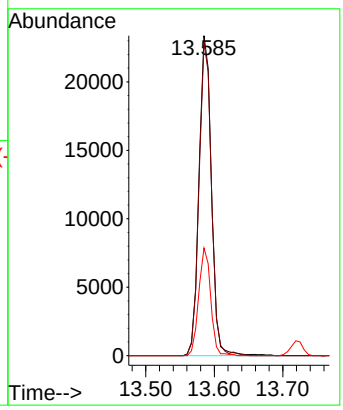




#93
1,2,4-Trichlorobenzene
Concen: 19.066 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:180 Resp: 2960

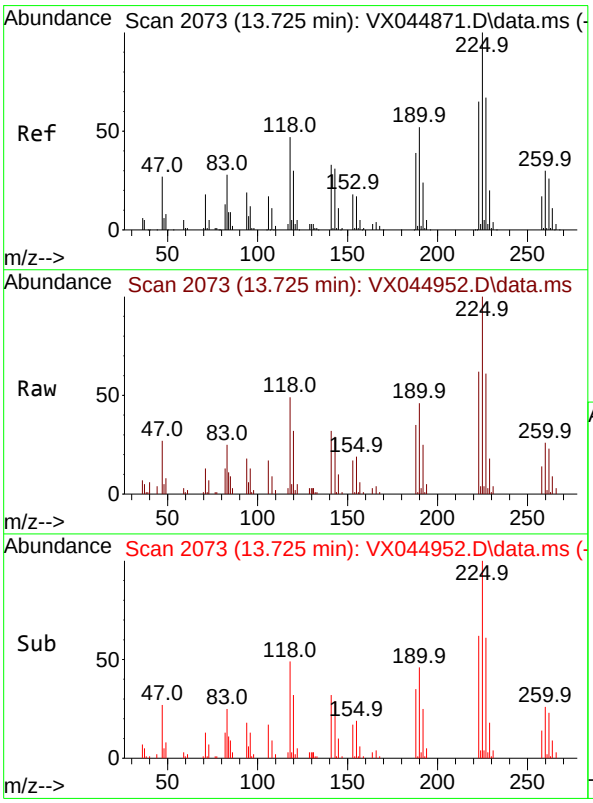
Ion	Ratio	Lower	Upper
180	100		
182	97.1	47.6	142.8
145	32.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations APPROVED

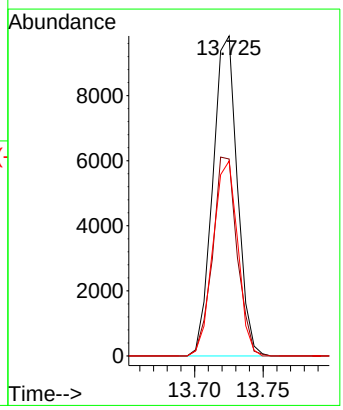
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025

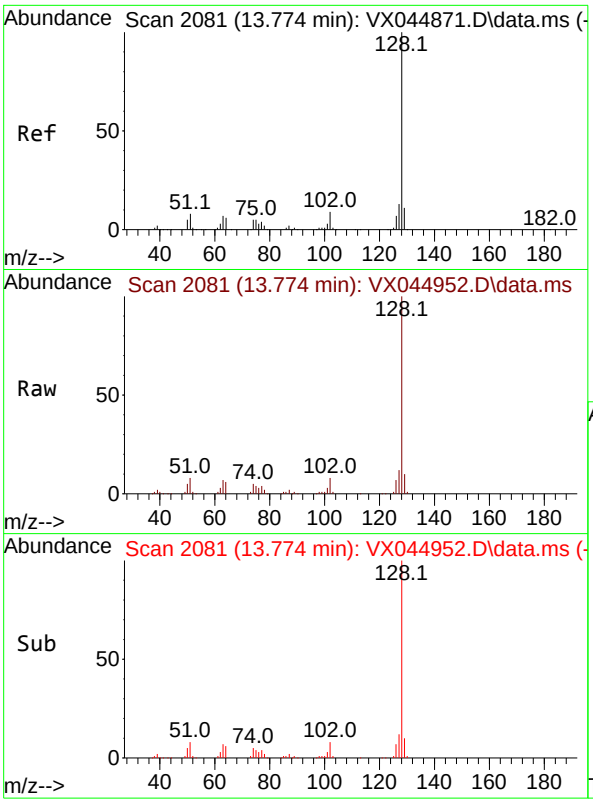


#94
Hexachlorobutadiene
Concen: 19.827 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:225 Resp: 12223

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.4	94.2
227	61.6	32.3	96.8

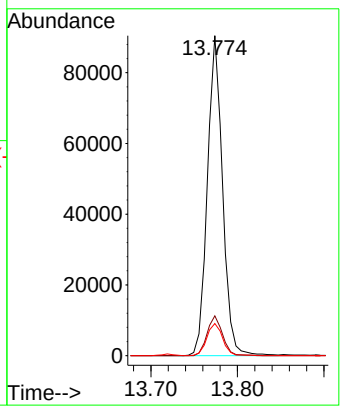




#95
Naphthalene
Concen: 19.661 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:128 Resp: 11036

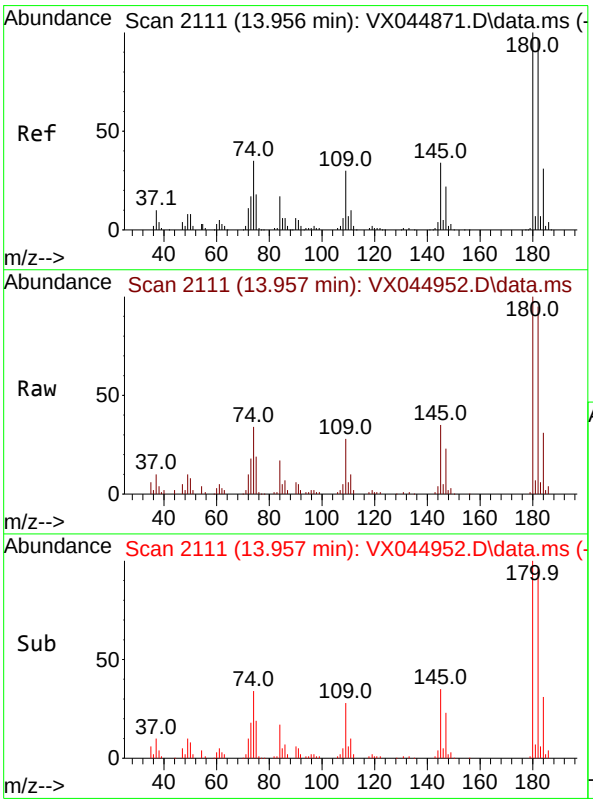
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.5	8.9	13.3



Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Manual Integrations
APPROVED

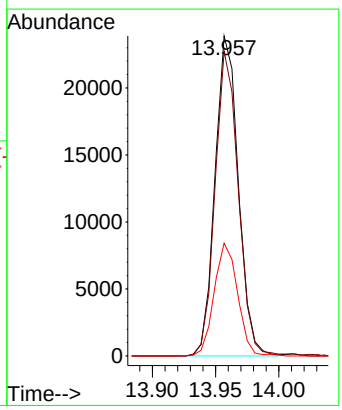
Reviewed By :John Carlone 02/18/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.564 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:180 Resp: 30613

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.9	143.6
145	35.5	17.1	51.3



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

Manual Integration Report

Sequence:	VX021025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX044868.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	1,4-Dichlorobenzene	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Dichlorodifluoromethane	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Ethyl Acetate	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC001	VX044868.D	Methacrylonitrile	JOHN	2/11/2025 9:40:53 AM	MMDadoda	2/11/2025 10:09:14 AM	Peak Integrated by Software
VSTDICC005	VX044869.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:40:57 AM	MMDadoda	2/11/2025 10:09:18 AM	Peak Integrated by Software
VSTDICC005	VX044869.D	Chloroethane	JOHN	2/11/2025 9:40:57 AM	MMDadoda	2/11/2025 10:09:18 AM	Peak Integrated by Software
VSTDICC020	VX044870.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:03 AM	MMDadoda	2/11/2025 10:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX044871.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:07 AM	MMDadoda	2/11/2025 10:09:36 AM	Peak Integrated by Software
VSTDICC100	VX044872.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:11 AM	MMDadoda	2/11/2025 10:09:40 AM	Peak Integrated by Software
VSTDICC150	VX044873.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:16 AM	MMDadoda	2/11/2025 10:09:49 AM	Peak Integrated by Software
VSTDICV050	VX044875.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:20 AM	MMDadoda	2/11/2025 10:09:53 AM	Peak Integrated by Software
VSTDCCC050	VX044891.D	1,2,3-Trichloropropane	JOHN	2/11/2025 9:41:46 AM	MMDadoda	2/11/2025 10:10:13 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX021025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VX021425	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044948.D	1,2,3-Trichloropropane	JOHN	2/18/2025 9:49:23 AM	MMDadoda	2/19/2025 12:43:52 PM	Peak Integrated by Software
VX0214WBS01	VX044951.D	1,2,3-Trichloropropane	JOHN	2/18/2025 9:49:27 AM	MMDadoda	2/19/2025 12:43:55 PM	Peak Integrated by Software
VX0214WBSD01	VX044952.D	1,2,3-Trichloropropane	JOHN	2/18/2025 9:49:31 AM	MMDadoda	2/19/2025 12:44:00 PM	Peak Integrated by Software
Q1352-02	VX044960.D	2-Butanone	JOHN	2/18/2025 9:49:53 AM	MMDadoda	2/19/2025 12:44:21 PM	Peak Integrated by Software
VSTDCCC050	VX044974.D	1,2,3-Trichloropropane	JOHN	2/18/2025 9:50:16 AM	MMDadoda	2/19/2025 12:44:34 PM	Peak Integrated by Software
VSTDCCC050	VX044974.D	Chloroethane	JOHN	2/18/2025 9:50:16 AM	MMDadoda	2/19/2025 12:44:34 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM		
SubDirectory	VX021025	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044867.D	10 Feb 2025 09:35	JC/MD	Ok
2	VSTDICC001	VX044868.D	10 Feb 2025 10:25	JC/MD	Ok,M
3	VSTDICC005	VX044869.D	10 Feb 2025 10:48	JC/MD	Ok,M
4	VSTDICC020	VX044870.D	10 Feb 2025 11:11	JC/MD	Ok,M
5	VSTDICCC050	VX044871.D	10 Feb 2025 11:34	JC/MD	Ok,M
6	VSTDICC100	VX044872.D	10 Feb 2025 12:05	JC/MD	Ok,M
7	VSTDICC150	VX044873.D	10 Feb 2025 12:28	JC/MD	Ok,M
8	IBLK	VX044874.D	10 Feb 2025 12:51	JC/MD	Ok
9	VSTDICV050	VX044875.D	10 Feb 2025 13:15	JC/MD	Ok,M
10	VX0210MBL01	VX044876.D	10 Feb 2025 13:43	JC/MD	Ok
11	VX0210WBL01	VX044877.D	10 Feb 2025 14:06	JC/MD	Ok
12	VX0210WBS01	VX044878.D	10 Feb 2025 14:29	JC/MD	Ok,M
13	VX0210WBSD01	VX044879.D	10 Feb 2025 14:55	JC/MD	Ok,M
14	Q1250-02	VX044880.D	10 Feb 2025 15:18	JC/MD	Ok
15	Q1250-01	VX044881.D	10 Feb 2025 15:41	JC/MD	Ok
16	Q1250-03	VX044882.D	10 Feb 2025 16:04	JC/MD	Ok
17	Q1250-04	VX044883.D	10 Feb 2025 16:27	JC/MD	Ok
18	Q1250-05	VX044884.D	10 Feb 2025 16:51	JC/MD	Ok
19	Q1250-10	VX044885.D	10 Feb 2025 17:14	JC/MD	Ok
20	Q1250-11	VX044886.D	10 Feb 2025 17:37	JC/MD	Ok
21	Q1250-12	VX044887.D	10 Feb 2025 18:00	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM		
SubDirectory	VX021025	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1250-06	VX044888.D	10 Feb 2025 18:23	JC/MD	Ok
23	Q1250-07MS	VX044889.D	10 Feb 2025 18:46	JC/MD	Ok,M
24	Q1250-08MSD	VX044890.D	10 Feb 2025 19:09	JC/MD	Ok,M
25	VSTDCCC050	VX044891.D	10 Feb 2025 19:32	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021425

Review By	John Carlone	Review On	2/18/2025 10:12:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/21/2025 1:42:38 AM		
SubDirectory	VX021425	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133040
Initial Calibration Stds	
CCC	VP133041,VP133042,VP133049,VP133050,VP133051,VP133052
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044947.D	14 Feb 2025 09:35	JC/MD	Ok
2	VSTDCCC050	VX044948.D	14 Feb 2025 10:04	JC/MD	Ok,M
3	VX0214MBL01	VX044949.D	14 Feb 2025 10:28	JC/MD	Ok
4	VX0214WBL01	VX044950.D	14 Feb 2025 10:51	JC/MD	Ok
5	VX0214WBS01	VX044951.D	14 Feb 2025 11:14	JC/MD	Ok,M
6	VX0214WBSD01	VX044952.D	14 Feb 2025 11:40	JC/MD	Ok,M
7	IBLK	VX044953.D	14 Feb 2025 12:02	JC/MD	Ok
8	Q1347-01	VX044954.D	14 Feb 2025 12:26	JC/MD	Not Ok
9	Q1168-09 0.2PPB	VX044955.D	14 Feb 2025 12:48	JC/MD	Ok,M
10	Q1168-09 0.5PPB	VX044956.D	14 Feb 2025 13:11	JC/MD	Ok,M
11	Q1168-09 0.75PPB	VX044957.D	14 Feb 2025 13:34	JC/MD	Ok,M
12	Q1168-09 2.5PPB	VX044958.D	14 Feb 2025 13:57	JC/MD	Ok,M
13	PB166701TB	VX044959.D	14 Feb 2025 14:20	JC/MD	Ok
14	Q1352-02	VX044960.D	14 Feb 2025 14:43	JC/MD	Ok,M
15	Q1353-02	VX044961.D	14 Feb 2025 15:06	JC/MD	Ok
16	Q1356-11	VX044962.D	14 Feb 2025 15:29	JC/MD	Ok
17	Q1356-02	VX044963.D	14 Feb 2025 15:52	JC/MD	Ok
18	Q1363-01	VX044964.D	14 Feb 2025 16:15	JC/MD	Ok
19	Q1363-02	VX044965.D	14 Feb 2025 16:38	JC/MD	ReRun
20	Q1363-03	VX044966.D	14 Feb 2025 17:01	JC/MD	Ok
21	Q1363-07	VX044967.D	14 Feb 2025 17:25	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021425

Review By	John Carlone	Review On	2/18/2025 10:12:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/21/2025 1:42:38 AM		
SubDirectory	VX021425	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133040
Initial Calibration Stds	
CCC	VP133041,VP133042,VP133049,VP133050,VP133051,VP133052
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1363-08	VX044968.D	14 Feb 2025 17:48	JC/MD	Ok
23	Q1363-09	VX044969.D	14 Feb 2025 18:11	JC/MD	Ok
24	Q1363-10	VX044970.D	14 Feb 2025 18:34	JC/MD	Ok
25	Q1363-04	VX044971.D	14 Feb 2025 18:57	JC/MD	Ok
26	Q1363-05MS	VX044972.D	14 Feb 2025 19:20	JC/MD	Ok,M
27	Q1363-06MSD	VX044973.D	14 Feb 2025 19:43	JC/MD	Ok,M
28	VSTDCCC050	VX044974.D	14 Feb 2025 20:06	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM		
SubDirectory	VX021025	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044867.D	10 Feb 2025 09:35		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX044868.D	10 Feb 2025 10:25		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX044869.D	10 Feb 2025 10:48		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX044870.D	10 Feb 2025 11:11		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX044871.D	10 Feb 2025 11:34		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX044872.D	10 Feb 2025 12:05		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX044873.D	10 Feb 2025 12:28		JC/MD	Ok,M
8	IBLK	IBLK	VX044874.D	10 Feb 2025 12:51		JC/MD	Ok
9	VSTDICV050	ICVVX021025	VX044875.D	10 Feb 2025 13:15		JC/MD	Ok,M
10	VX0210MBL01	VX0210MBL01	VX044876.D	10 Feb 2025 13:43		JC/MD	Ok
11	VX0210WBL01	VX0210WBL01	VX044877.D	10 Feb 2025 14:06		JC/MD	Ok
12	VX0210WBS01	VX0210WBS01	VX044878.D	10 Feb 2025 14:29		JC/MD	Ok,M
13	VX0210WBSD01	VX0210WBSD01	VX044879.D	10 Feb 2025 14:55		JC/MD	Ok,M
14	Q1250-02	BP-VPB-192-GW-420-4	VX044880.D	10 Feb 2025 15:18	vial B pH<2	JC/MD	Ok
15	Q1250-01	BP-VPB-192-TB-20250	VX044881.D	10 Feb 2025 15:41	vial B pH<2 TB	JC/MD	Ok
16	Q1250-03	BP-VPB-192-GW-300-3	VX044882.D	10 Feb 2025 16:04	vial B pH<2	JC/MD	Ok
17	Q1250-04	BP-VPB-192-GW-320-3	VX044883.D	10 Feb 2025 16:27	vial B pH<2	JC/MD	Ok
18	Q1250-05	BP-VPB-192-GW-340-3	VX044884.D	10 Feb 2025 16:51	vial B pH<2	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021025

Review By	John Carlone	Review On	2/11/2025 9:43:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:05:25 PM		
SubDirectory	VX021025	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132955
Initial Calibration Stds	VP132960,VP132961,VP132962,VP132963,VP132964,VP132965
CCC	VP132956
Internal Standard/PEM	
ICV/I.BLK	VP132966
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1250-10	BP-VPB-192-GW-380-3	VX044885.D	10 Feb 2025 17:14	vial B pH<2	JC/MD	Ok
20	Q1250-11	BP-VPB-192-GW-400-4	VX044886.D	10 Feb 2025 17:37	vial B pH<2	JC/MD	Ok
21	Q1250-12	BP-VPB-192-GW-440-4	VX044887.D	10 Feb 2025 18:00	vial B pH<2	JC/MD	Ok
22	Q1250-06	BP-VPB-192-GW-360-3	VX044888.D	10 Feb 2025 18:23	vial B pH<2	JC/MD	Ok
23	Q1250-07MS	BP-VPB-192-GW-360-3	VX044889.D	10 Feb 2025 18:46	vial B pH<2	JC/MD	Ok,M
24	Q1250-08MSD	BP-VPB-192-GW-360-3	VX044890.D	10 Feb 2025 19:09	vial B pH<2	JC/MD	Ok,M
25	VSTDCCC050	VSTDCCC050EC	VX044891.D	10 Feb 2025 19:32		JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021425

Review By	John Carlone	Review On	2/18/2025 10:12:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/21/2025 1:42:38 AM		
SubDirectory	VX021425	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133040
Initial Calibration Stds	
CCC	VP133041,VP133042,VP133049,VP133050,VP133051,VP133052
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	VX044947.D	14 Feb 2025 09:35		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044948.D	14 Feb 2025 10:04	V13516	JC/MD	Ok,M
3	VX0214MBL01	VX0214MBL01	VX044949.D	14 Feb 2025 10:28		JC/MD	Ok
4	VX0214WBL01	VX0214WBL01	VX044950.D	14 Feb 2025 10:51		JC/MD	Ok
5	VX0214WBS01	VX0214WBS01	VX044951.D	14 Feb 2025 11:14		JC/MD	Ok,M
6	VX0214WBSD01	VX0214WBSD01	VX044952.D	14 Feb 2025 11:40		JC/MD	Ok,M
7	IBLK	IBLK	VX044953.D	14 Feb 2025 12:02		JC/MD	Ok
8	Q1347-01	BP-VPB-192-EB-20250	VX044954.D	14 Feb 2025 12:26	vial B EB;Hit Confirmed	JC/MD	Not Ok
9	Q1168-09 0.2PPB	MDL-WATER-03-QT1-2	VX044955.D	14 Feb 2025 12:48		JC/MD	Ok,M
10	Q1168-09 0.5PPB	MDL-WATER-03-QT1-2	VX044956.D	14 Feb 2025 13:11		JC/MD	Ok,M
11	Q1168-09 0.75PPB	MDL-WATER-03-QT1-2	VX044957.D	14 Feb 2025 13:34		JC/MD	Ok,M
12	Q1168-09 2.5PPB	MDL-WATER-03-QT1-2	VX044958.D	14 Feb 2025 13:57		JC/MD	Ok,M
13	PB166701TB	PB166701TB	VX044959.D	14 Feb 2025 14:20		JC/MD	Ok
14	Q1352-02	TAP-IDW-SOIL-021025	VX044960.D	14 Feb 2025 14:43	vial A pH#5.0	JC/MD	Ok,M
15	Q1353-02	346	VX044961.D	14 Feb 2025 15:06	vial A pH#5.0	JC/MD	Ok
16	Q1356-11	CARBON-SOLID	VX044962.D	14 Feb 2025 15:29	vial A pH#5.0	JC/MD	Ok
17	Q1356-02	SOIL-PILE	VX044963.D	14 Feb 2025 15:52	vial A pH#5.0	JC/MD	Ok
18	Q1363-01	MW-30D-021125	VX044964.D	14 Feb 2025 16:15	vial A pH<2	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX021425

Review By	John Carlone	Review On	2/18/2025 10:12:29 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/21/2025 1:42:38 AM		
SubDirectory	VX021425	HP Acquire Method		HP Processing Method	82X021025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133040
Initial Calibration Stds	
CCC	VP133041,VP133042,VP133049,VP133050,VP133051,VP133052
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1363-02	EB-01-021125	VX044965.D	14 Feb 2025 16:38	vial A pH<2 EB;Hit of comp.#16	JC/MD	ReRun
20	Q1363-03	TB-01-021125	VX044966.D	14 Feb 2025 17:01	vial A pH<2 TB	JC/MD	Ok
21	Q1363-07	VFCC-2-021225	VX044967.D	14 Feb 2025 17:25	vial A pH<2	JC/MD	Ok
22	Q1363-08	VFCC-3-021225	VX044968.D	14 Feb 2025 17:48	vial A pH<2	JC/MD	Ok
23	Q1363-09	MW-33S-021225	VX044969.D	14 Feb 2025 18:11	vial A pH<2	JC/MD	Ok
24	Q1363-10	MW-33S-FD-021225	VX044970.D	14 Feb 2025 18:34	vial A pH<2	JC/MD	Ok
25	Q1363-04	MW-33D-021225	VX044971.D	14 Feb 2025 18:57	vial A pH<2	JC/MD	Ok
26	Q1363-05MS	MW-33D-021225MS	VX044972.D	14 Feb 2025 19:20	vial A pH<2	JC/MD	Ok,M
27	Q1363-06MSD	MW-33D-021225MSD	VX044973.D	14 Feb 2025 19:43	vial A pH<2	JC/MD	Ok,M
28	VSTDCCC050	VSTDCCC050EC	VX044974.D	14 Feb 2025 20:06	Failed for comp.#06	JC/MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166701

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1

TCLP Filter ID : 50223706

Start Prep Date : 02/12/2025 **Time :** 14:00

End Prep Date : 02/13/2025 **Time :** 07:15

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP021425

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110801
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	23237	N/A

Extraction Conformance/Non-Conformance Comments:

ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 mintues of tumbling. TUMBLER ZHE-1 checked,30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
JP 02/12/25 0830	JP TCLP Room	S.Y WC Lab
	Preparation Group	Analysis Group

02/13/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166701

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166701TB	LEB701	05	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-1
Q1352-02	TAP-IDW-SOIL-021025	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1353-02	346	02	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-3
Q1356-01	CARBON-SOLID	03	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-4
Q1356-02	SOIL-PILE	04	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-5

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166701TB	LEB701	N/A	N/A	N/A	N/A	N/A	N/A
Q1352-02	TAP-IDW-SOIL-021025	N/A	N/A	N/A	N/A	100	N/A
Q1353-02	346	N/A	N/A	N/A	N/A	100	N/A
Q1356-01	CARBON-SOLID	N/A	N/A	N/A	N/A	100	N/A
Q1356-02	SOIL-PILE	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp zhe q1352 **WorkList ID :** 187673 **Department :** TCLP Extraction **Date :** 02-12-2025 11:39:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1352-02	TAP-IDW-SOIL-021025	Solid	TCLP ZHE Extraction	Cool 4 deg C	WEST04	N51	02/10/2025	1311 ZHE
Q1353-02	346	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N41	02/11/2025	1311 ZHE
Q1356-01	CARBON-SOLID	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG04	N51	02/11/2025	1311 ZHE
Q1356-02	SOIL-PILE	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG04	N51	02/11/2025	1311 ZHE

Date/Time 02/12/25 12:30
Raw Sample Received by: JD (WDC)
Raw Sample Relinquished by: RM Sm

Date/Time 02-12-25 15:00
Raw Sample Received by: RM Sm
Raw Sample Relinquished by: JD (WDC)

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

Prep Standard - Chemical Standard Summary

Order ID : Q1352

Test : TCLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: VX021425,

Standard ID :
VP130430,VP131746,VP131767,VP132035,VP132037,VP132038,VP132096,VP132097,VP132099,VP132100,VP132101,VP132103,VP132543,VP132545,VP132613,VP132615,VP132616,VP132679,VP133031,VP133034,VP133036,VP133038,VP133039,VP133040,VP133041,VP133042,VP133049,VP133050,VP133051,VP133052,

Chemical ID :
V12967,V13391,V13446,V13449,V13457,V13460,V13465,V13466,V13582,V13707,V13809,V13919,V14126,V14145,V14154,V14175,V14176,V14179,V14289,V14290,V14425,V14433,V14439,V14521,V14522,V14614,V14624,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14801,V14814,V14872,V14873,V14874,V14875,V14877,V14878,W3112,

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

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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP132037	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 0.25000ml of V14633 + 24.75000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1813	8260 Working Std(2-CVE)-50ppm	VP132038	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 20.00000ml of V14614 + 1.25000ml of VP132035 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP132097	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.50000ml of V13466 + 49.50000ml of V14614 = Final Quantity: 50.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
254	8260 Working STD (BCM)-First source, 10PPM	VP132099	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.05000ml of V13465 + 9.95000ml of V14614 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
251	8260 Internal STD & Surrogate Mix, 250PPM	VP132100	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.25000ml of V13707 + 0.25000ml of V14290 + 24.50000ml of V14614 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP132101	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.80000ml of V13582 + 9.20000ml of V14614 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1818	8260 Working Std(2-CVE)-SS, 50ppm	VP132103	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 4.68750ml of V14614 + 0.31250ml of VP132101 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP132543	01/14/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/17/2025

FROM 0.16000ml of V13449 + 0.80000ml of V13809 + 0.80000ml of V14126 + 0.80000ml of V14179 + 0.80000ml of V14425 + 0.80000ml of V14801 + 1.60000ml of V13919 + 4.24000ml of V14624 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
820	8260 Calibration Working STD Mix-Second source, 10PPM	VP132545	01/14/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/17/2025

FROM 4.68750ml of V14624 + 0.31250ml of VP132543 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132613	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 0.40000ml of V13446 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 + 1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml of V14624 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP132615	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 17.50000ml of V14624 + 2.50000ml of VP132613 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
246	8260 Calibration Working STD Mix-First source, 10PPM	VP132616	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 9.37500ml of V14624 + 0.62500ml of VP132613 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
825	8260 Working STD (BCM)-Second source, 10PPM	VP132679	01/24/2025	07/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 0.10000ml of V12967 + 9.90000ml of V14624 = Final Quantity: 10.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP133031	02/14/2025	03/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/17/2025

FROM 0.60000ml of V14878 + 1.00000ml of V14877 + 8.40000ml of V14624 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
826	8260 Working STD (Acrolein)-Second source, 50PPM	VP133034	02/14/2025	03/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/18/2025

FROM 4.68750ml of V14624 + 0.31250ml of VP133031 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133036	02/14/2025	03/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/18/2025

FROM 1.00000ml of V14872 + 1.00000ml of V14873 + 1.00000ml of V14874 + 1.00000ml of V14875 + 21.00000ml of V14624 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP133038	02/14/2025	03/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/18/2025

FROM 17.50000ml of V14624 + 2.50000ml of VP133036 = Final Quantity: 20.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
181	8260 Working STD (Acrolein)-First source, 50PPM	VP133039	02/14/2025	03/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/18/2025

FROM 9.37500ml of V14624 + 0.62500ml of VP133036 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP133040	02/14/2025	02/15/2025	John Carlone	None	None	Semsettin Yesilyurt 02/17/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP133041	02/14/2025	02/15/2025	John Carlone	None	None	Semsettin Yesilyurt 02/17/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132613 + 0.01250ml of VP133036 = 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	VP133042	02/14/2025	02/15/2025	John Carlone	None	None	Semsettin Yesilyurt 02/17/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132613 + 0.01250ml of VP133036 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2390	0.2PPB LOD, 8260-Water	VP133049	02/14/2025	02/15/2025	John Carlone	None	None	Semsettin Yesilyurt 02/17/2025

FROM 39.98840ml of W3112 + 0.00080ml of VP132103 + 0.00080ml of VP132545 + 0.00080ml of VP132679 + 0.00080ml of VP133034 + 0.00800ml of VP132100 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2947	0.5 ppb MDL 8260 Water	VP133050	02/14/2025	02/15/2025	John Carlone	None	None	Semsettin Yesilyurt 02/17/2025

FROM 39.98000ml of W3112 + 0.00100ml of VP132037 + 0.00100ml of VP132097 + 0.00100ml of VP132615 + 0.00100ml of VP133038 + 0.00500ml of VP130430 + 0.00800ml of VP131746 = Final Quantity: 40.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3585	0.75 PPB MDL 8260 WATER	VP133051	02/14/2025	02/15/2025	John Carlone	None	None	Semsettin Yesilyurt 02/17/2025

FROM 39.97000ml of W3112 + 0.00300ml of VP132038 + 0.00300ml of VP132099 + 0.00300ml of VP132616 + 0.00300ml of VP133039 + 0.00500ml of VP130430 + 0.00800ml of VP131746 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3786	2.5 PPB 8260 MDL-WATER	VP133052	02/14/2025	02/15/2025	John Carlone	None	None	Semsettin Yesilyurt 02/17/2025

FROM 39.92000ml of W3112 + 0.00800ml of VP132100 + 0.01000ml of VP132038 + 0.01000ml of VP132099 + 0.01000ml of VP132616 + 0.01000ml of VP133039 = Final Quantity: 40.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	07/24/2025	01/24/2025 / SAM	07/06/2022 / SAM	V12967

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	01/10/2025 / SAM	01/23/2023 / SAM	V13446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	06/02/2025	12/02/2024 / SAM	01/23/2023 / SAM	V13449

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	12/12/2024 / SAM	01/30/2023 / SAM	V13582

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	10/31/2029	01/07/2025 / SAM	05/31/2023 / SAM	V13809

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0193887	07/10/2025	01/10/2025 / SAM	07/24/2023 / SAM	V13919

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	07/10/2025	01/10/2025 / SAM	01/17/2024 / SAM	V14126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14179

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0205013	06/30/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14425

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14756

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220563	06/30/2026	01/10/2025 / SAM	01/08/2025 / SAM	V14801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14872

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14875

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021225	03/12/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021225	03/12/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

12

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

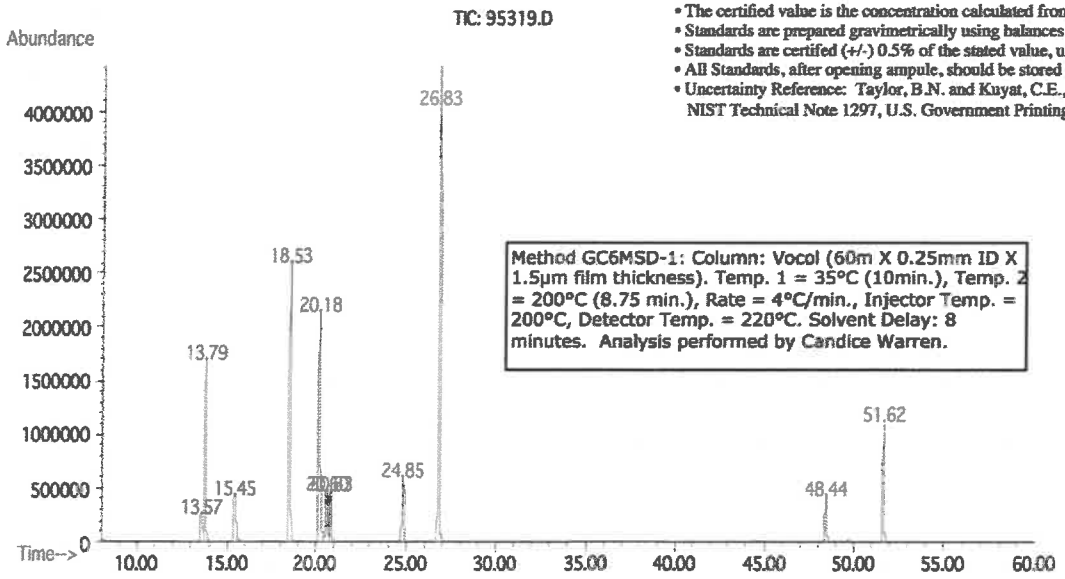
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan	011624 DATE
Reviewed By: Pedro L. Rentas	011624 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

2 vials
Rec 02/14/25

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021225
Description: Acrolein

Expiration Date: 031225
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

U14877-78

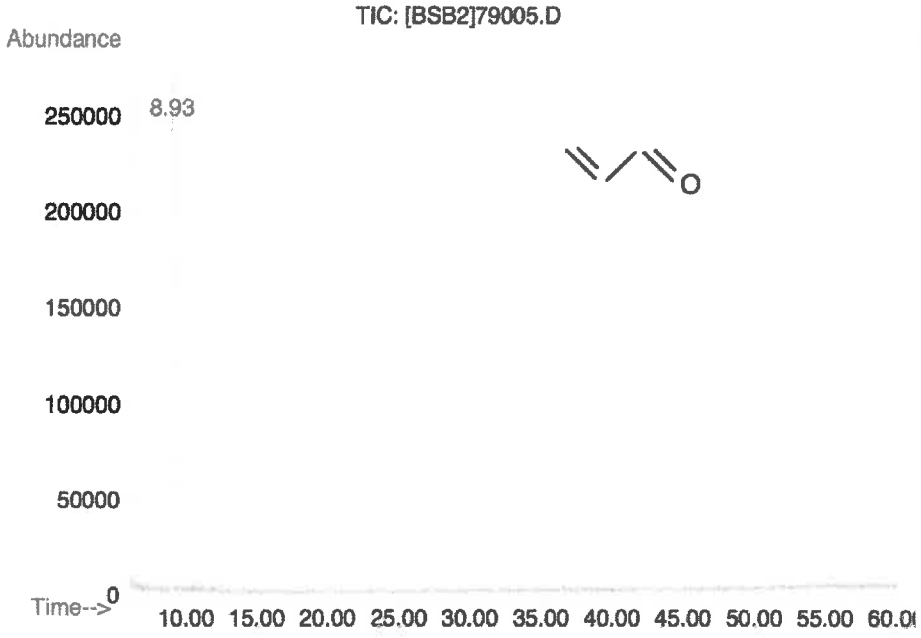
Prashant Chauhan 021225
Formulated By: Prashant Chauhan DATE

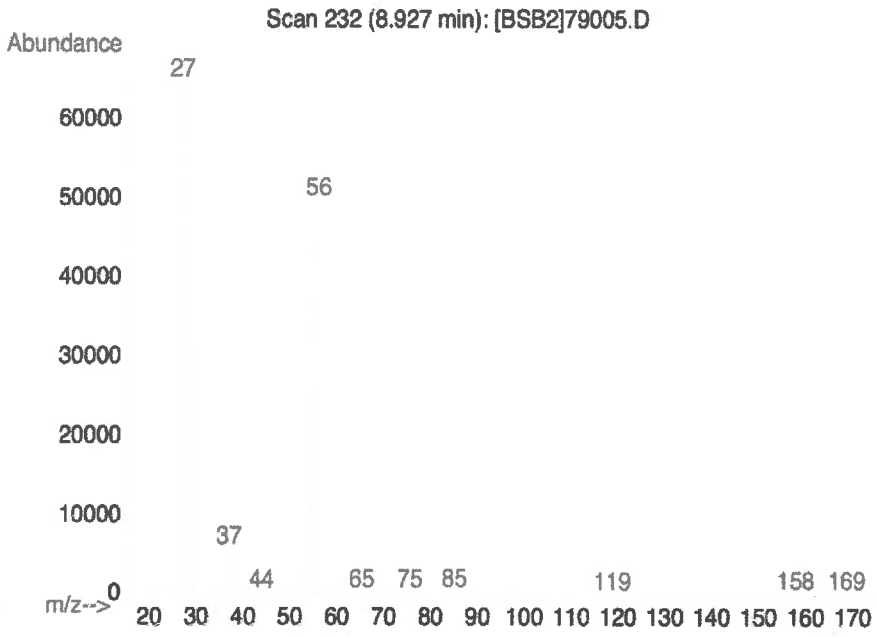
Pedro Rentas 021225
Reviewed By: Pedro L. Rentas DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

2 vial
Rec 02/14/25

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021225
Description: Acrolein

Solvent(s): **Lot#**
Water 072324Q

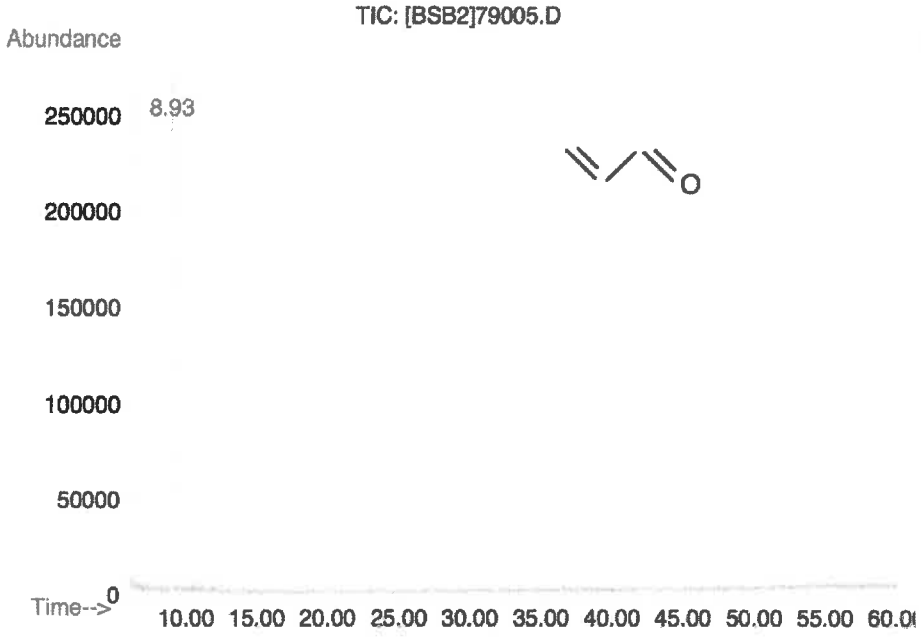
U14877-78

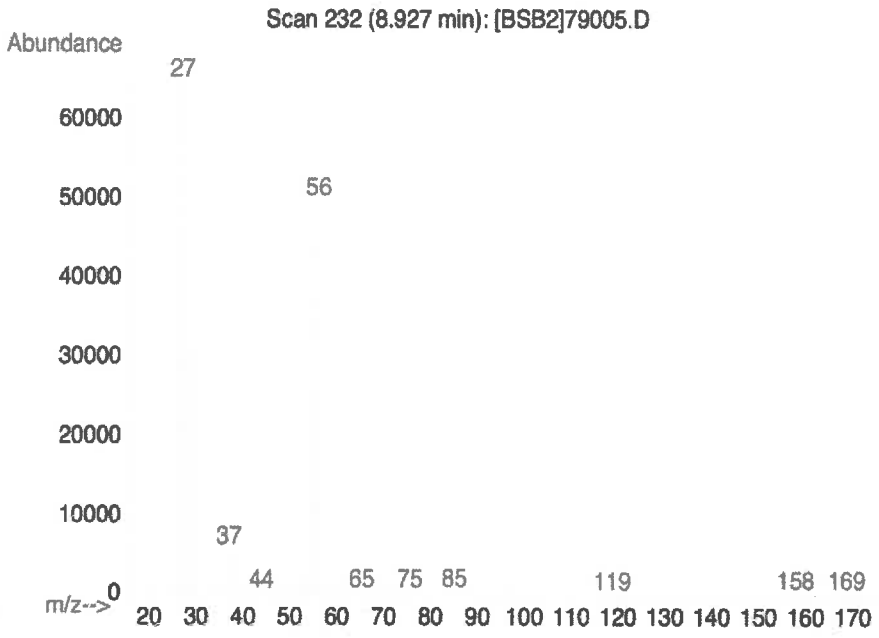
Expiration Date: 031225
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	021225 DATE
Reviewed By:	Pedro L. Rentas	021225 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

5 yr

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.cor

Exp 02/14/25

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

V14872 to V14876

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

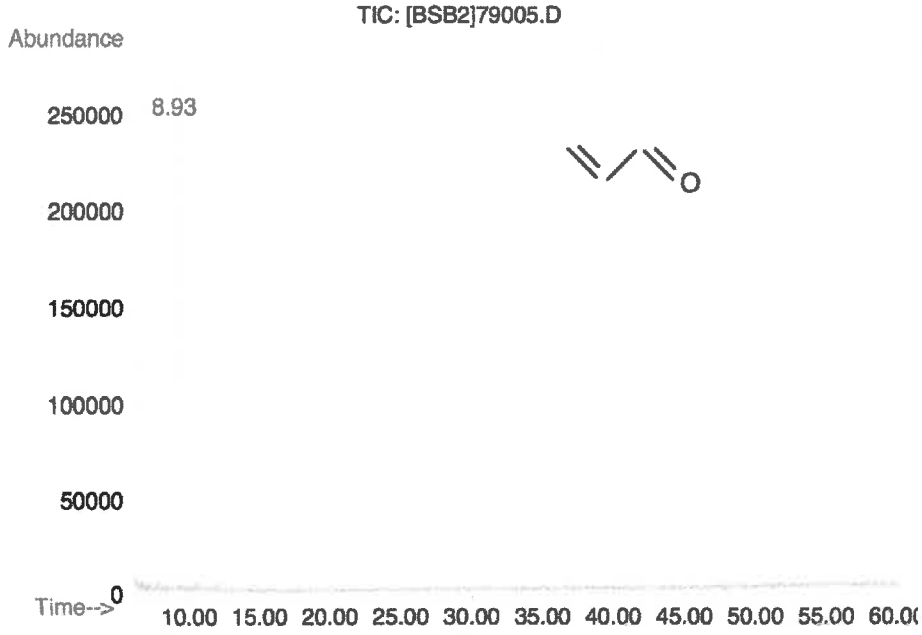
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

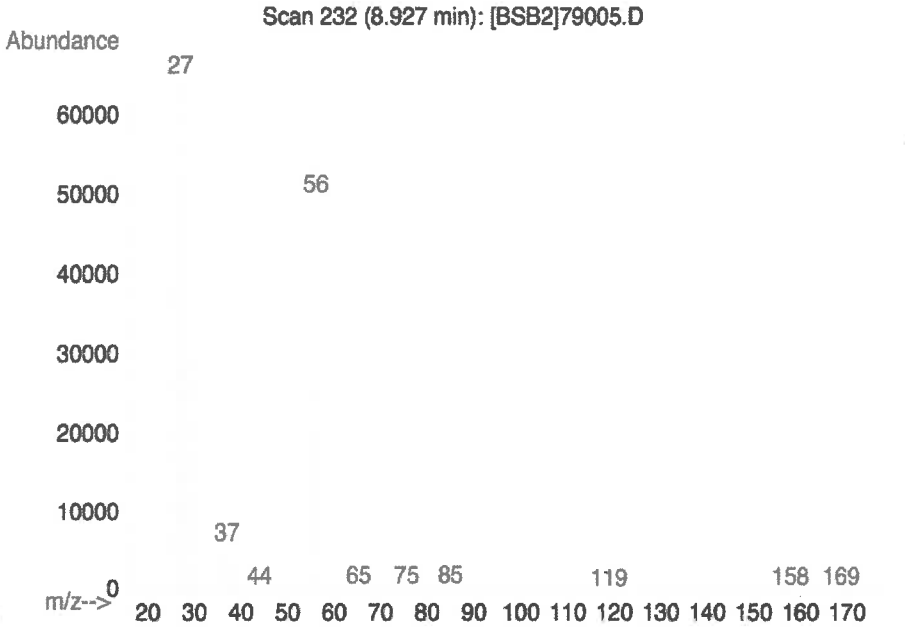
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By:	Anthony Mahoney	021325 DATE
Reviewed By:	Pedro L. Rentas	021325 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

5 V14

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.cor

Exp 02/14/25

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

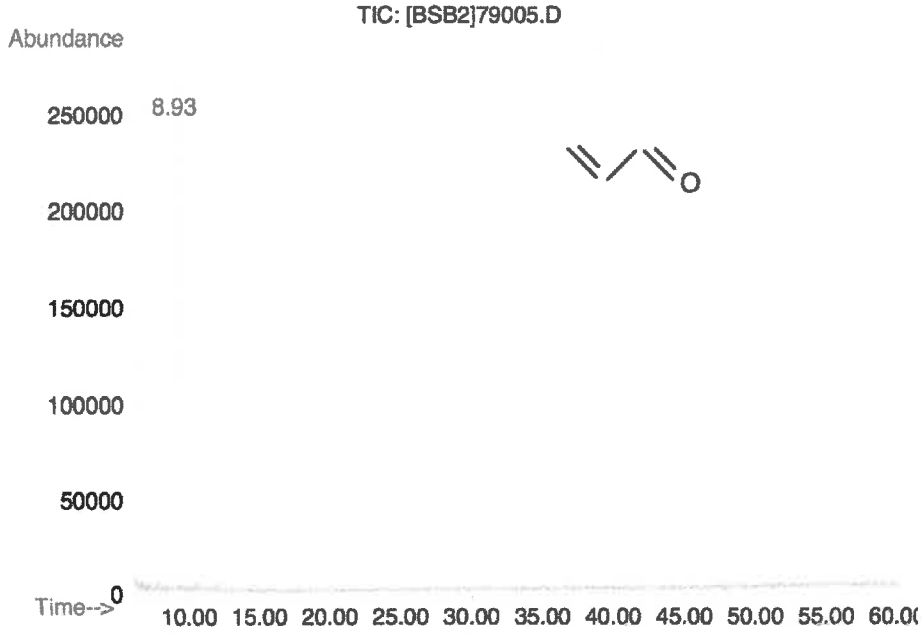
V14872 to
V14876

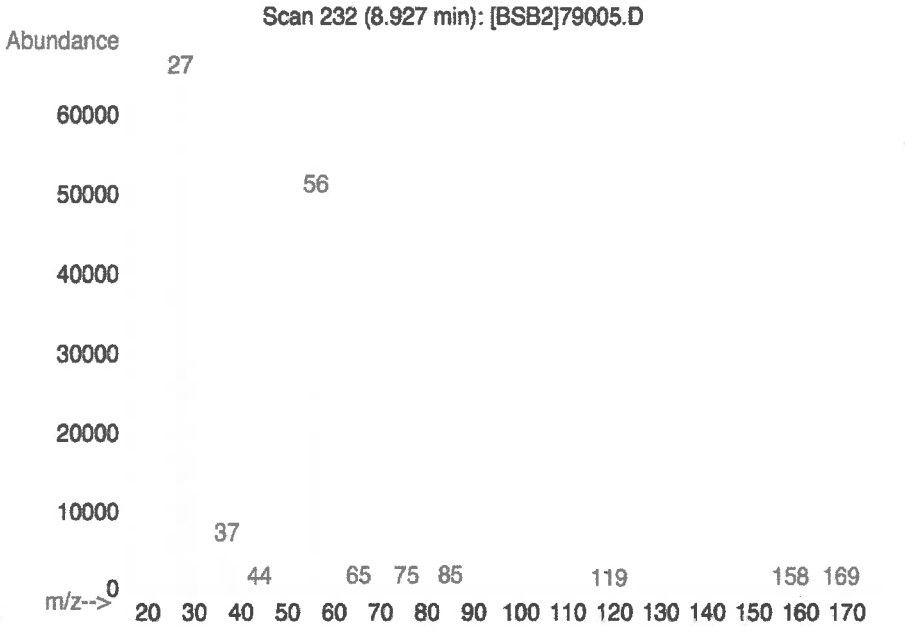
		021325
Formulated By:	Anthony Mahoney	DATE
		021325
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

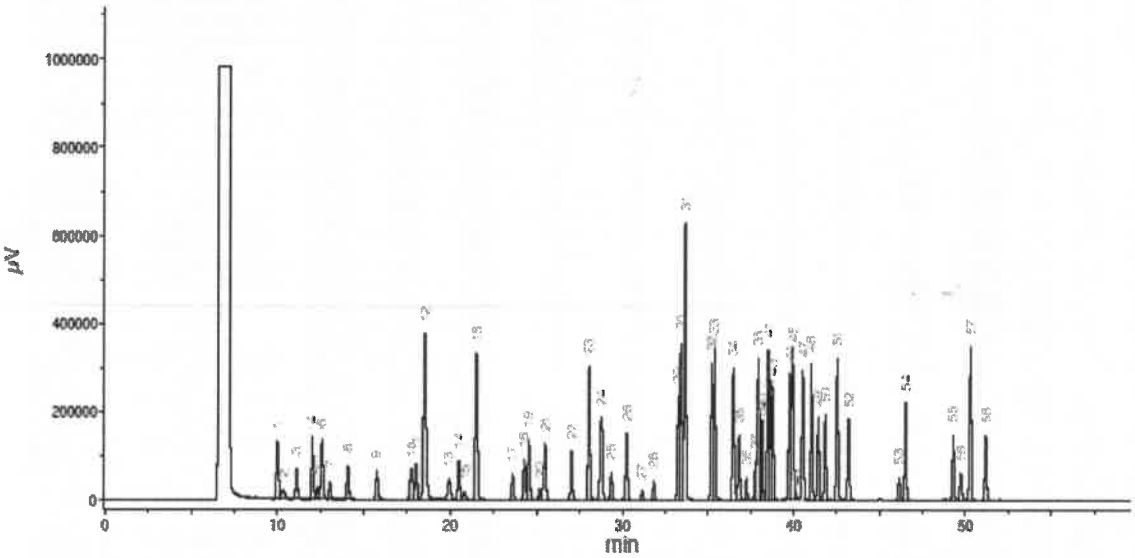
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expended Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20570	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2018.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.8mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1260mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EG359-USQ12

Formulated By:	Prashant Chauhan	021624 DATE
Reviewed By:	Pedro L. Rentas	021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty 5E-05 Balance Uncertainty

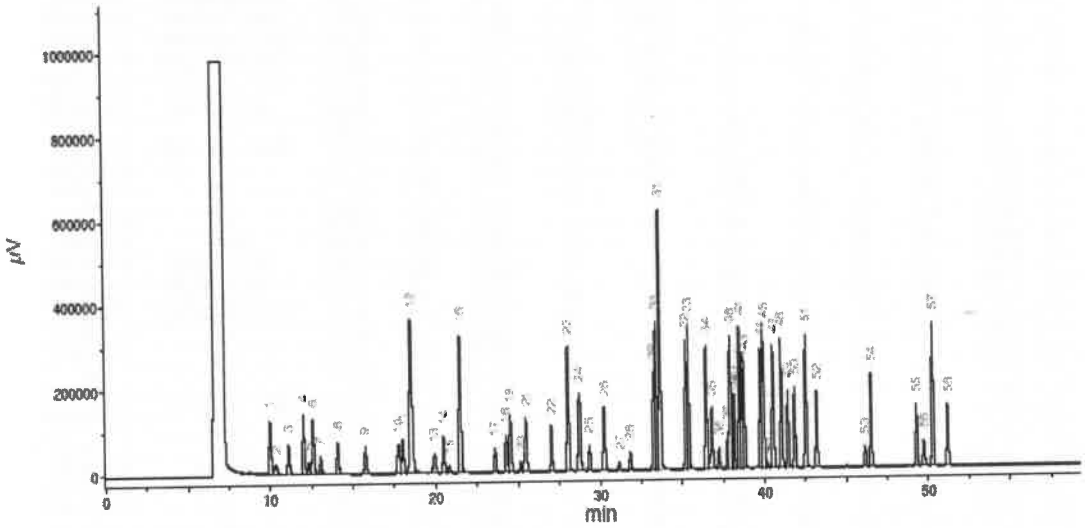
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): 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

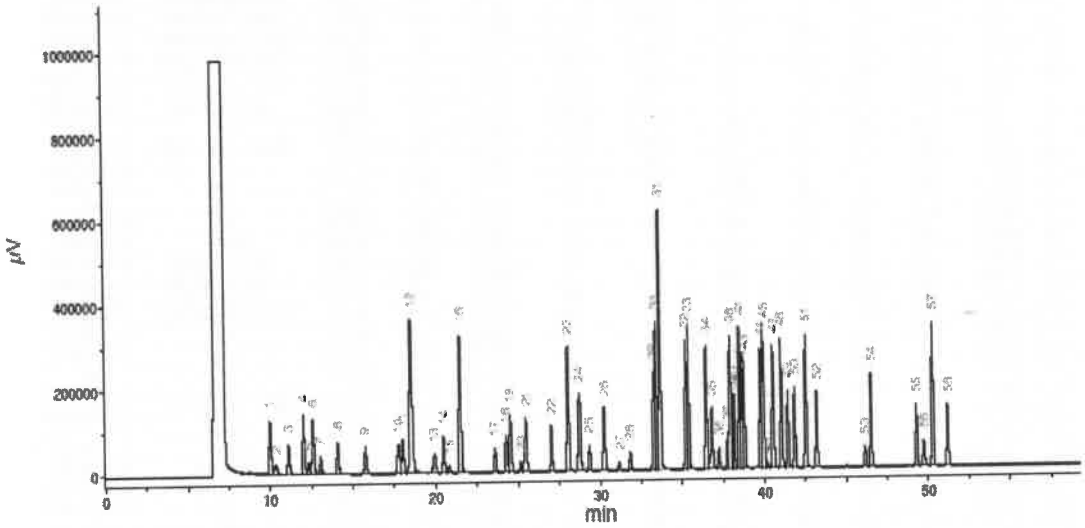
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

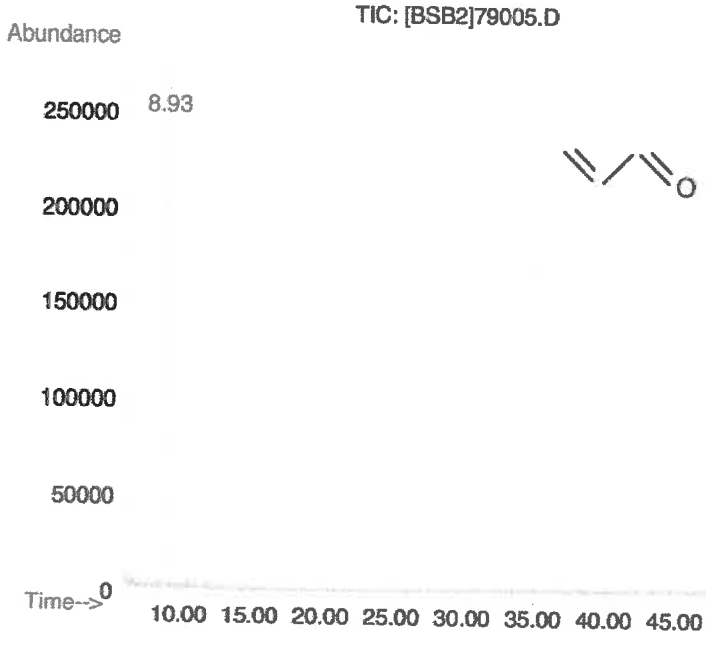
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

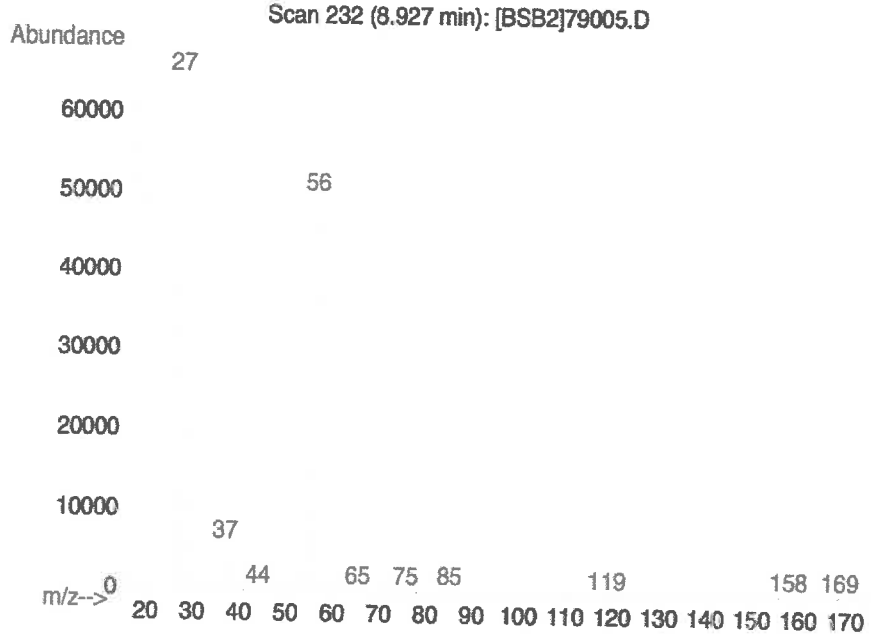
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

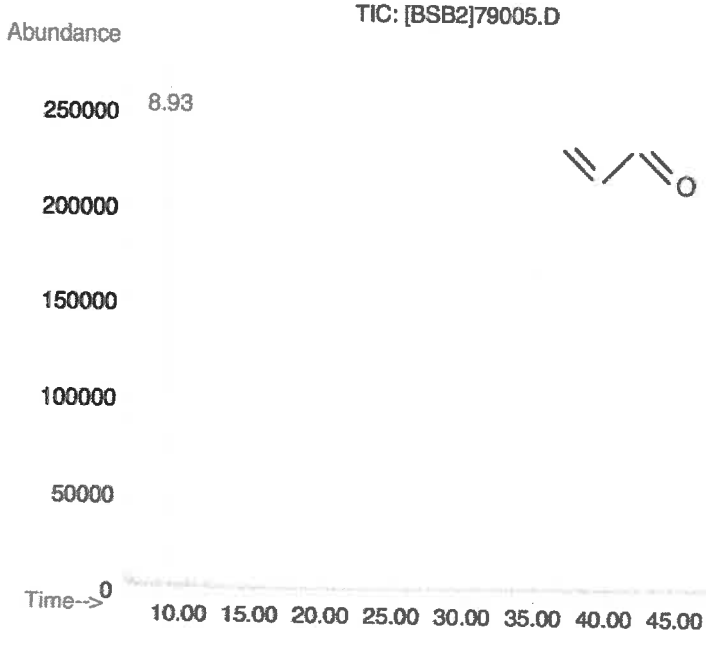
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

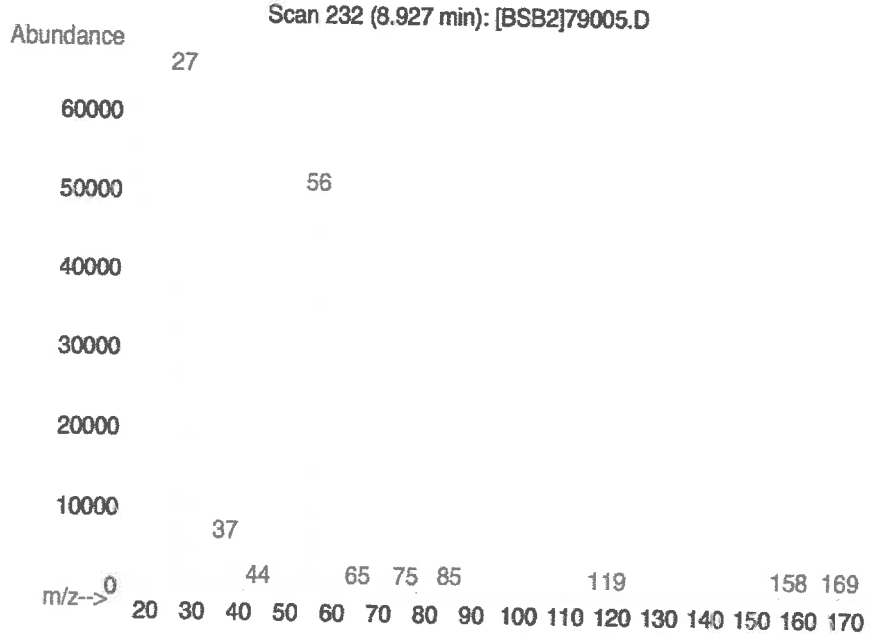
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

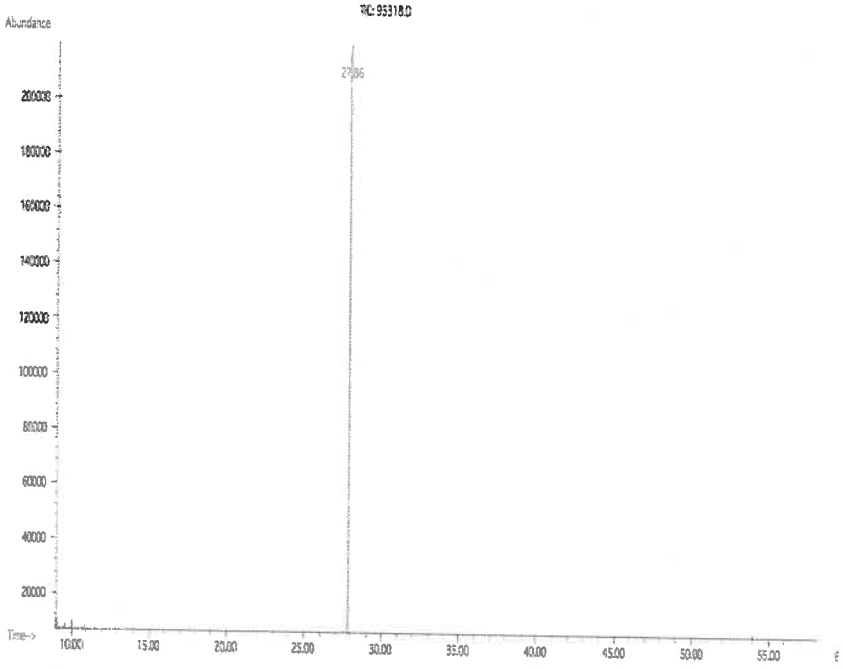
Weight(s) shown below were combined and diluted to (mL): 50.0

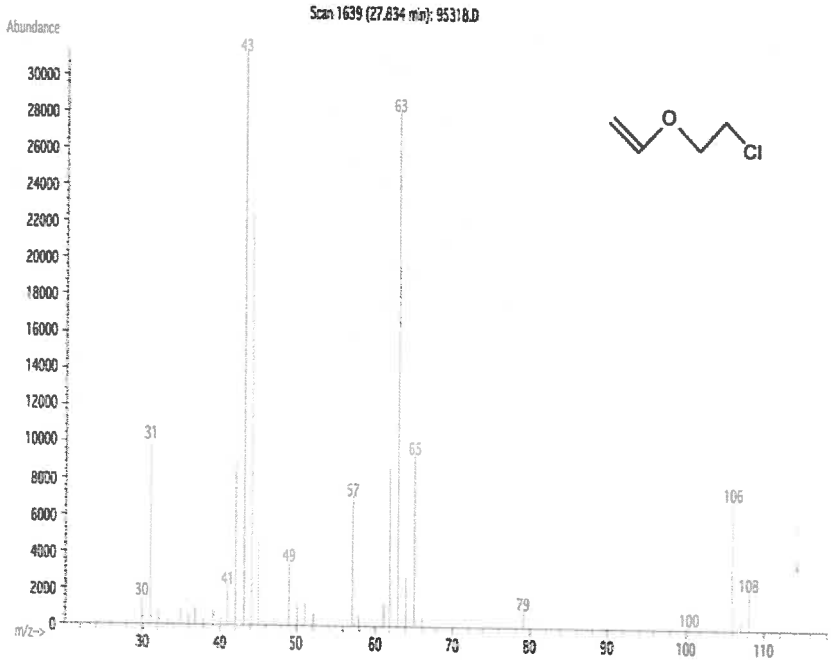
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

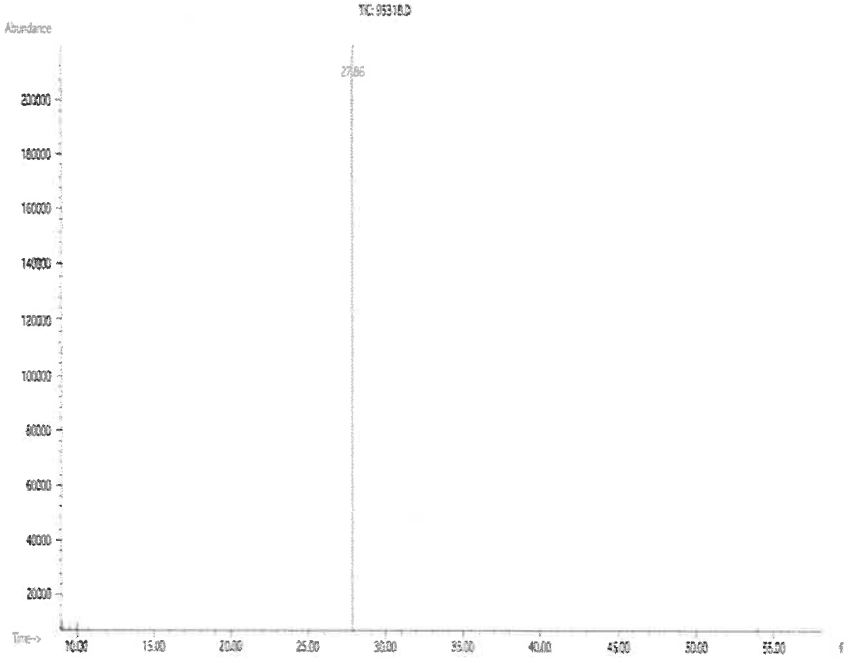
Solvent(s): Methanol **Lot#** EJ143-US

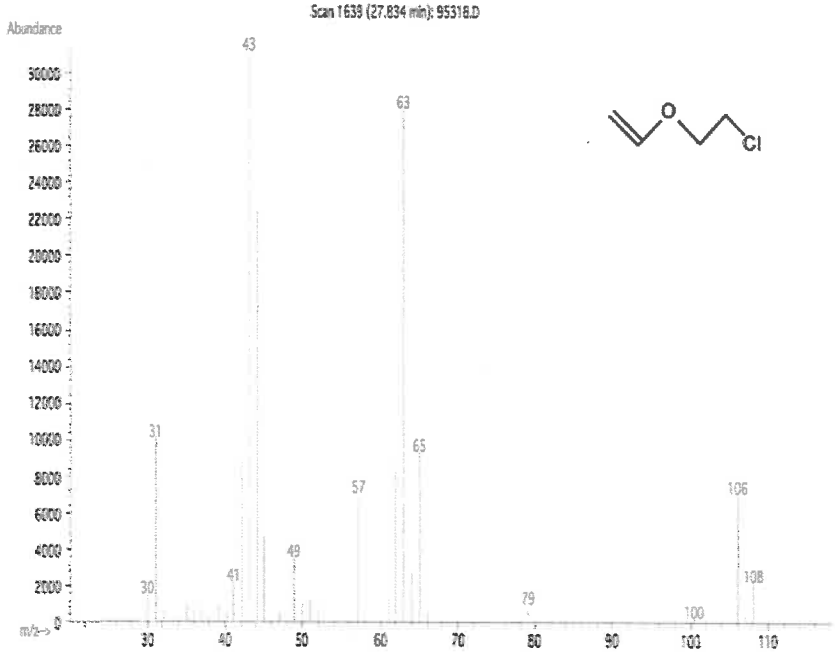
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- 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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

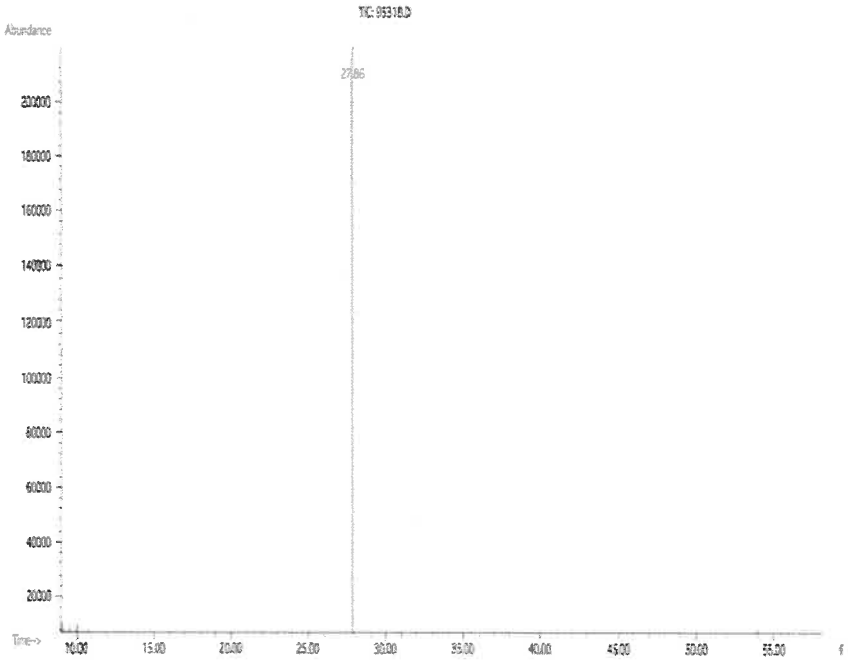
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

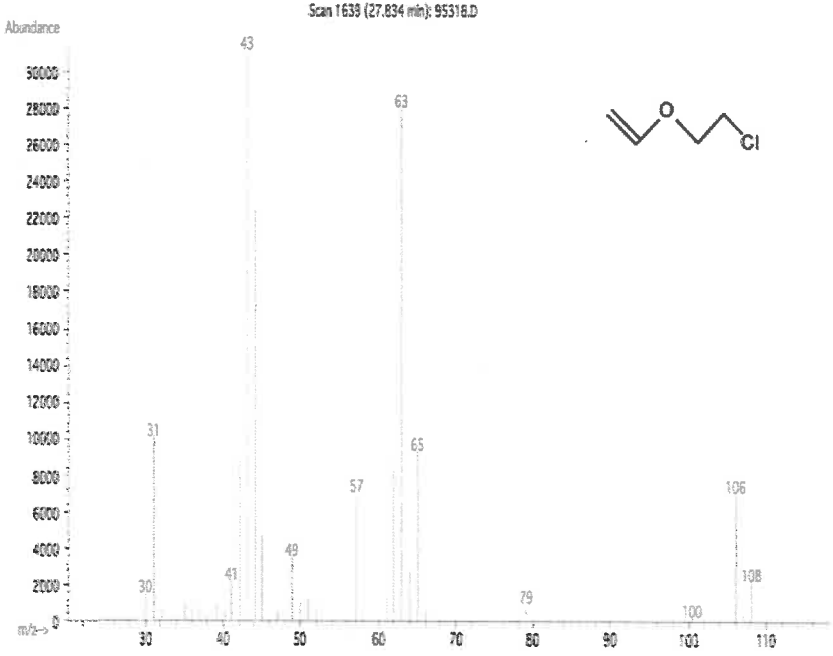
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	120524	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

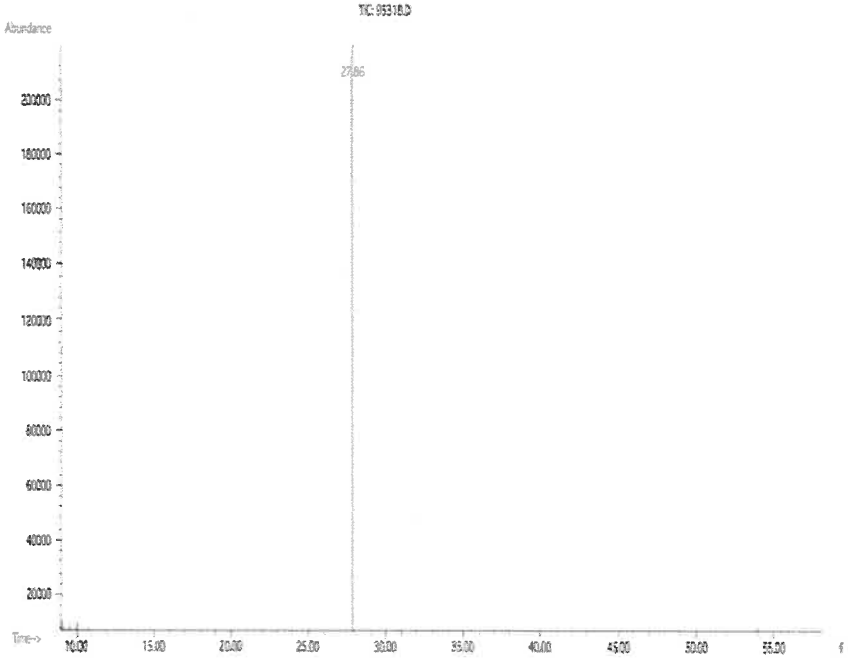
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

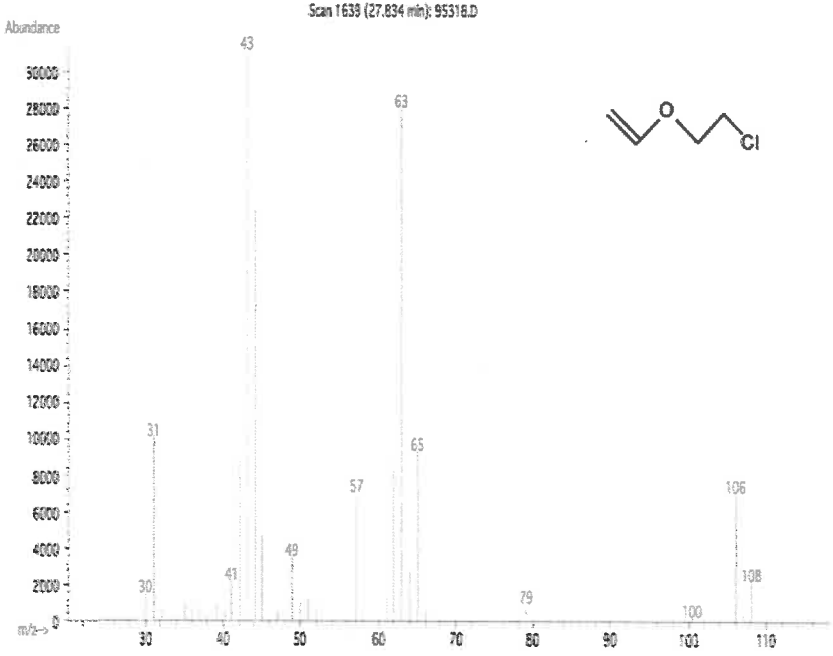
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

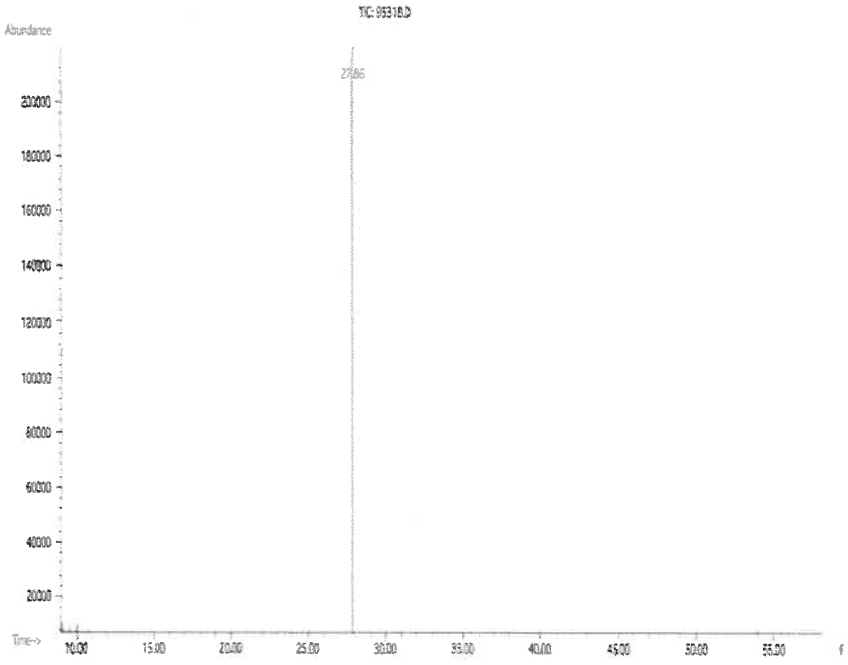
V14630 to V14649

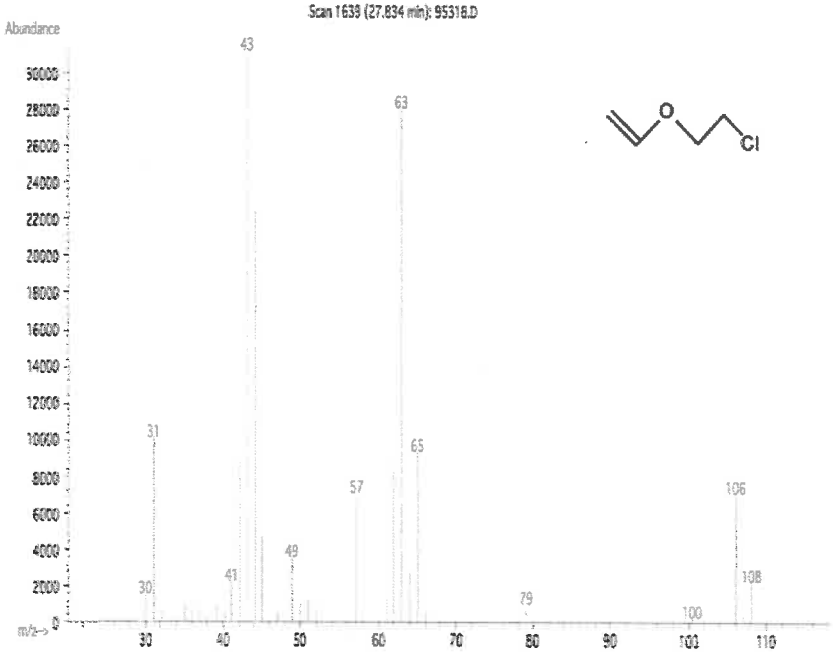
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0181905

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)		50,126.0 µg/mL	+/- 293.4988 µg/mL	Gravimetric
	CAS # 75-65-0	(Lot SHBM7694)		+/- 1,073.7654 µg/mL	Unstressed
	Purity 99%			+/- 1,104.9494 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

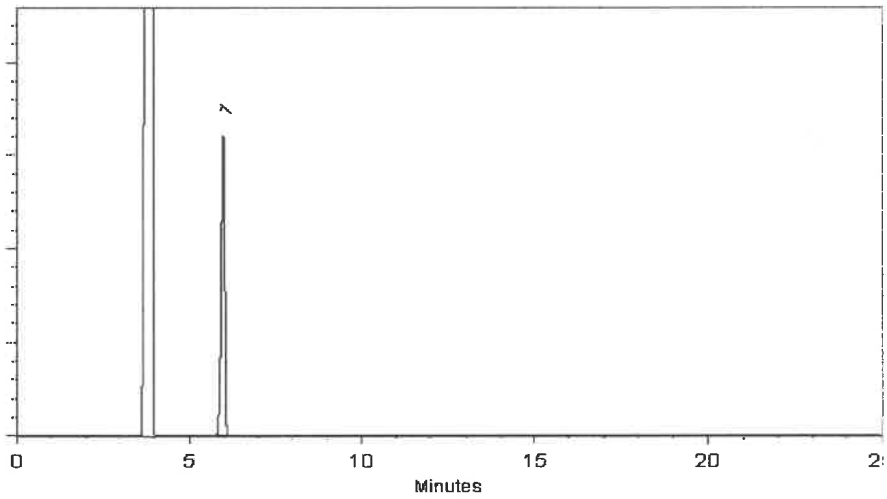
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

4 J

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,122.0 µg/mL	+/- 293.4753 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/- 1,073.6797 µg/mL	Unstressed
	Purity 99%		+/- 1,104.8612 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

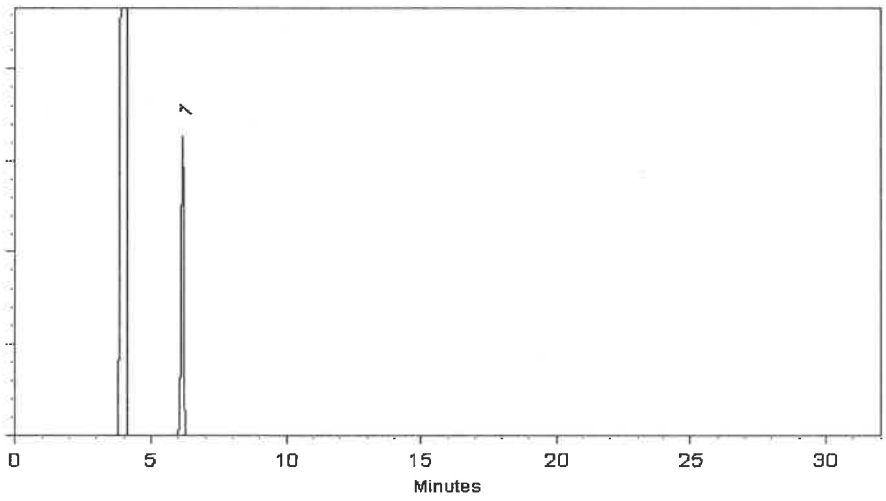
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

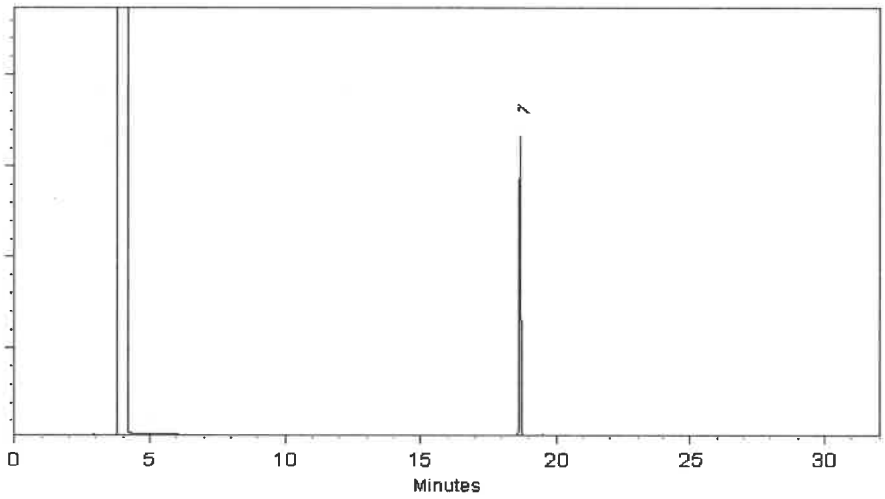
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I **Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

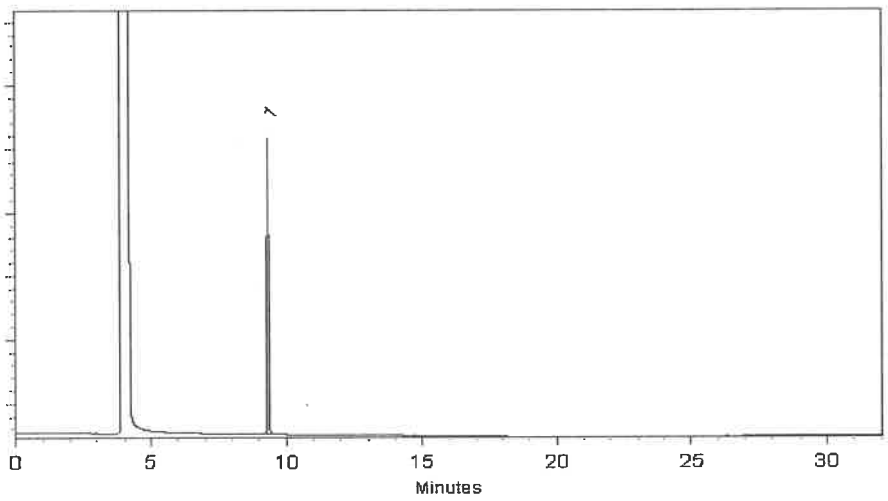
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

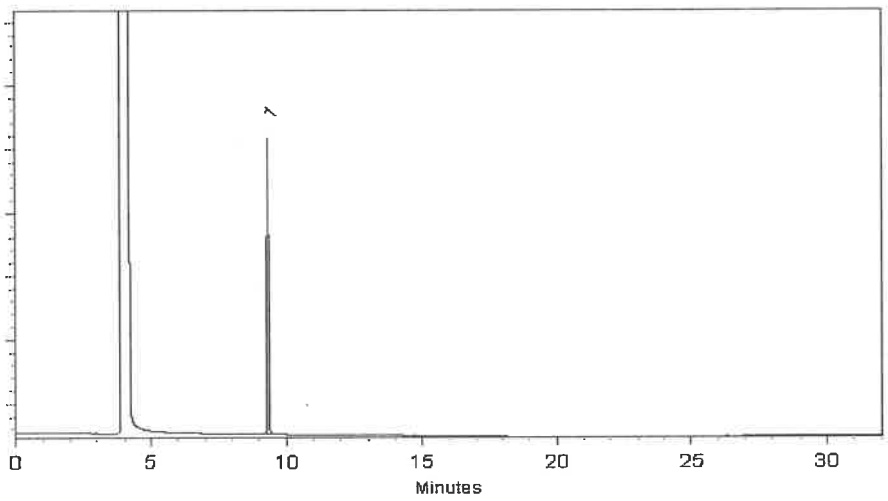
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

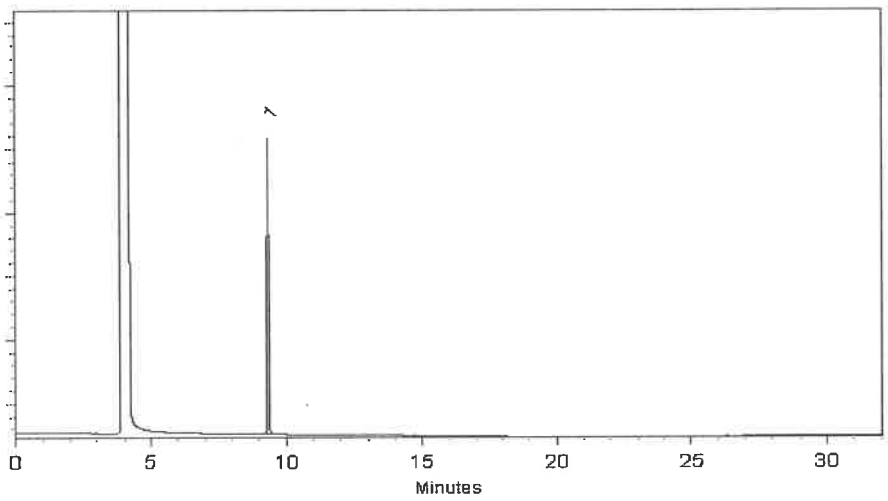
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

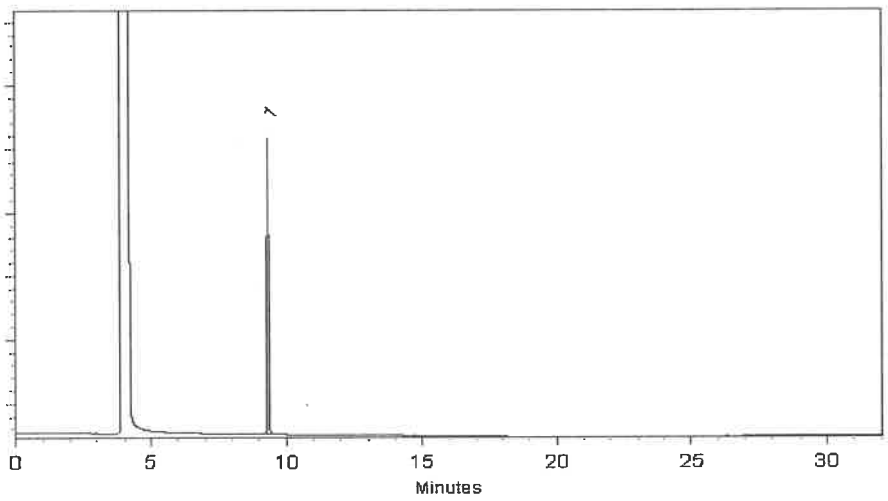
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA 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. : 30006 **Lot No.:** A0193887

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

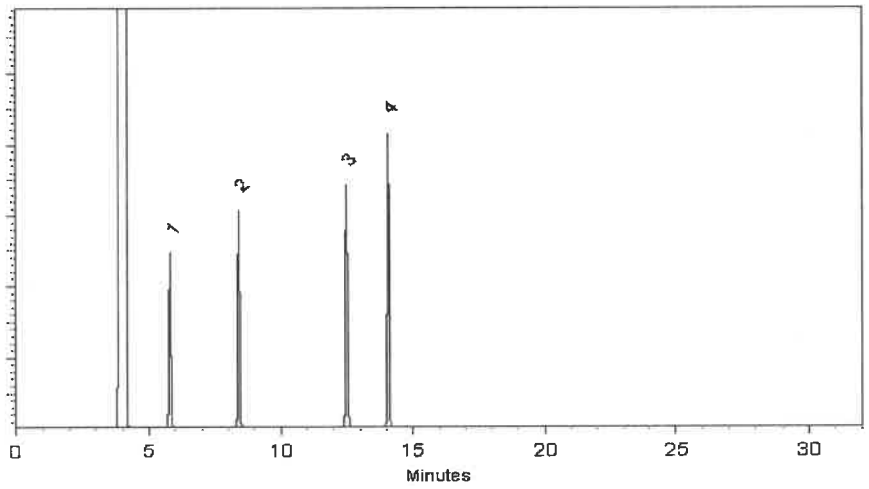
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

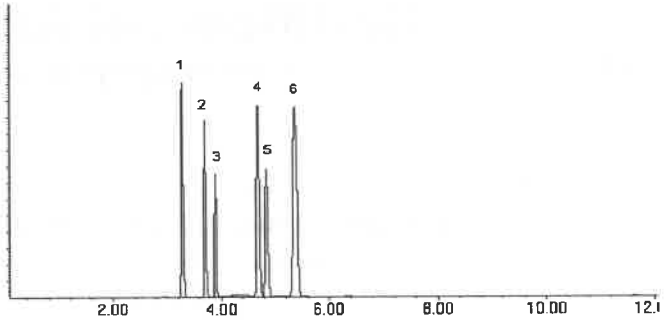
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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. : 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 30489 **Lot No.:** A0205013

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

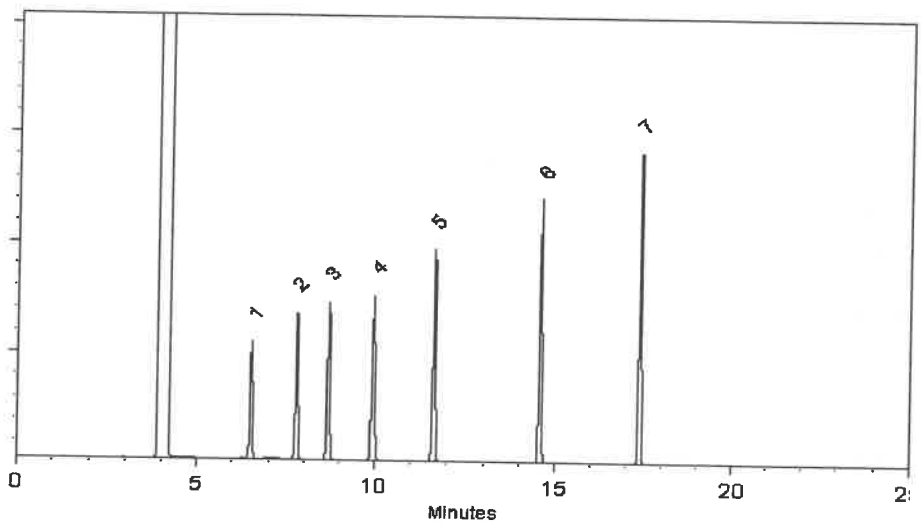
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

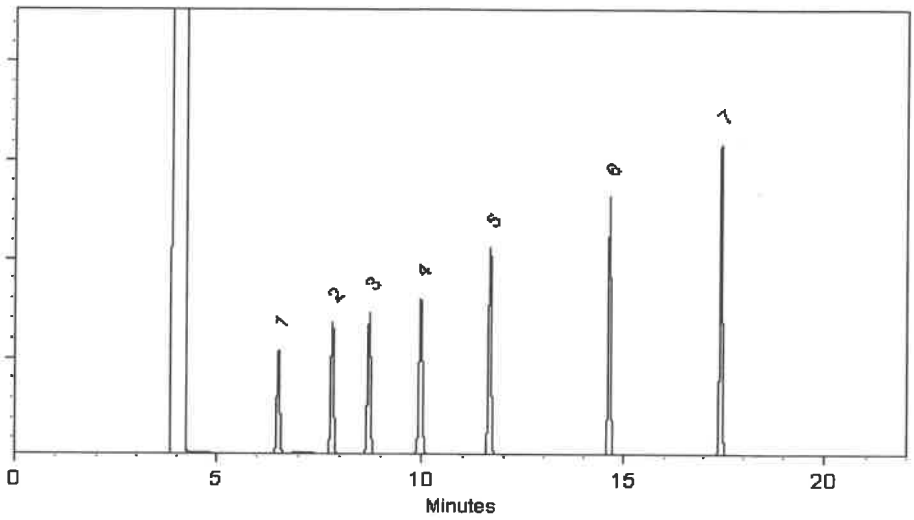
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

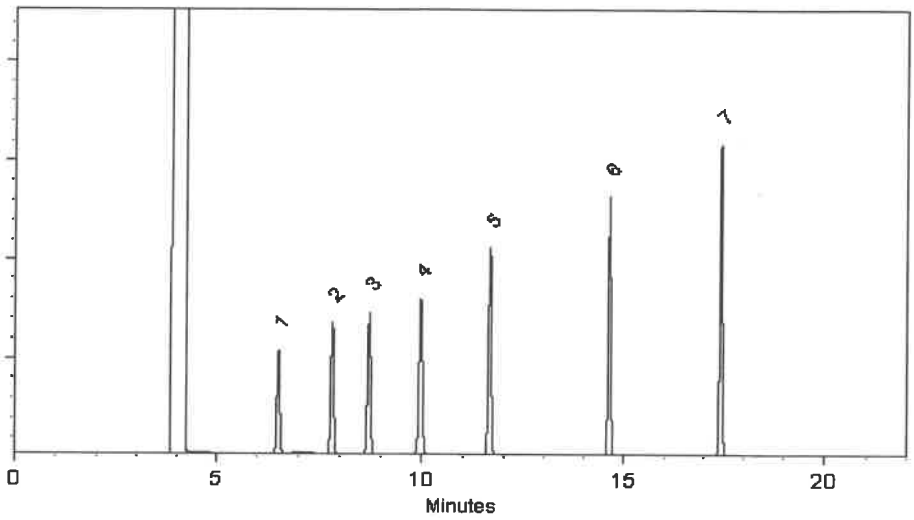
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

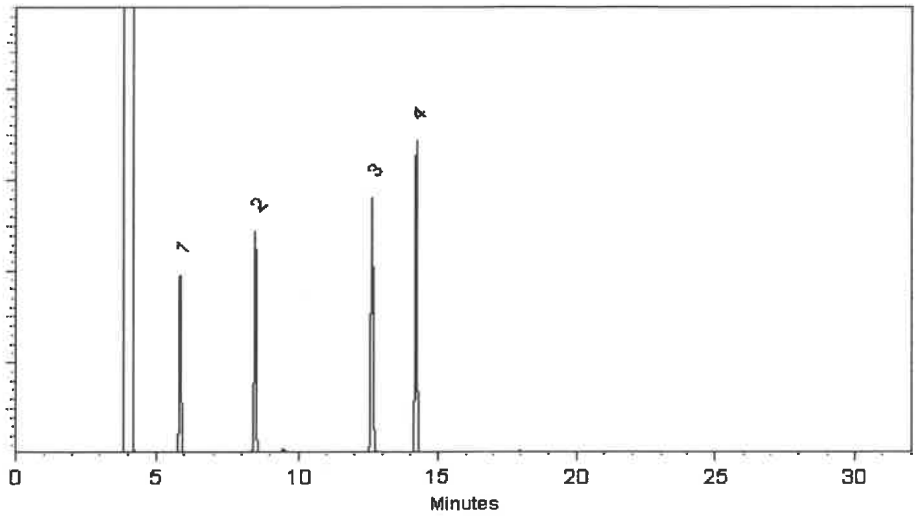
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

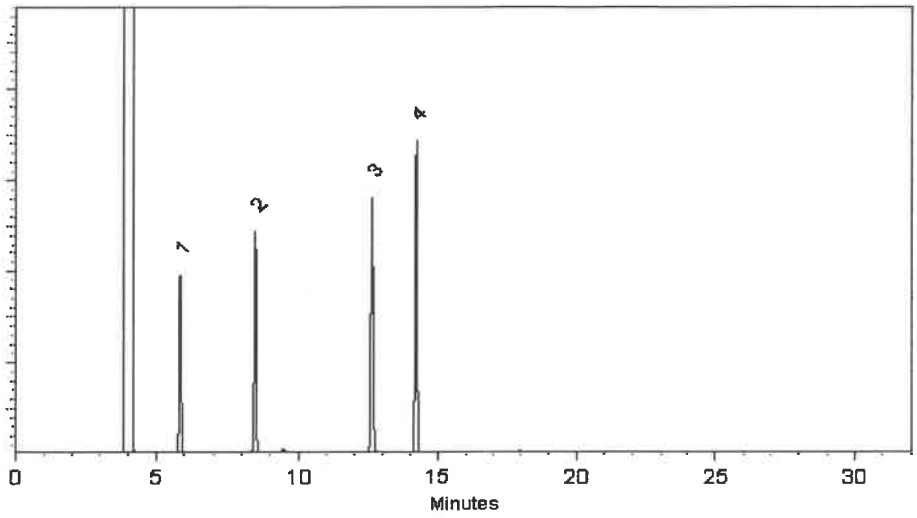
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

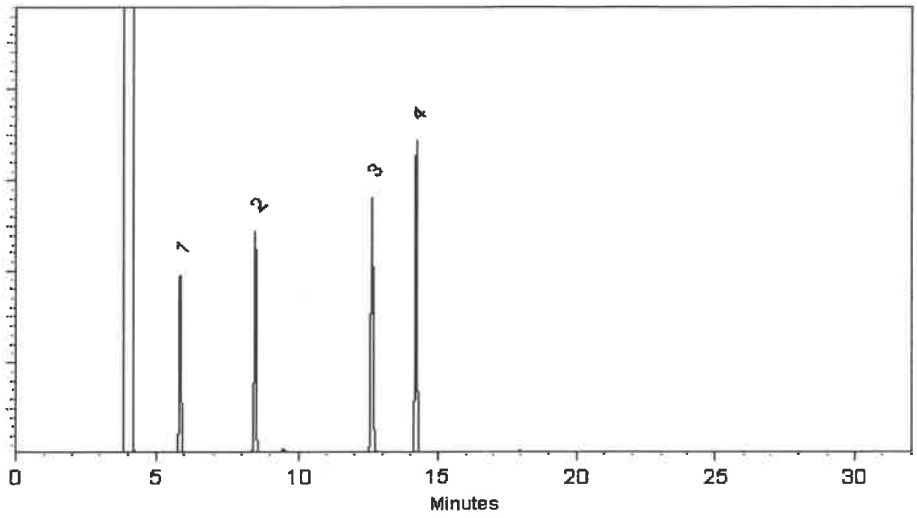
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I **Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

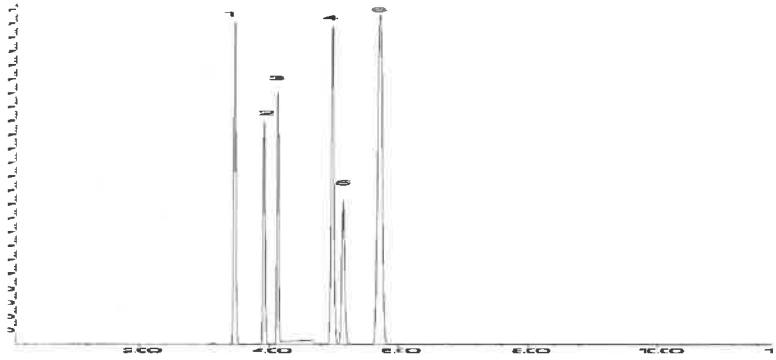
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

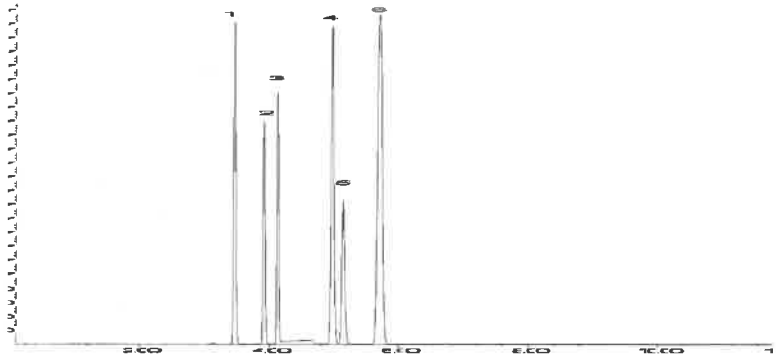
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Zoviy Rec 01/08/21

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

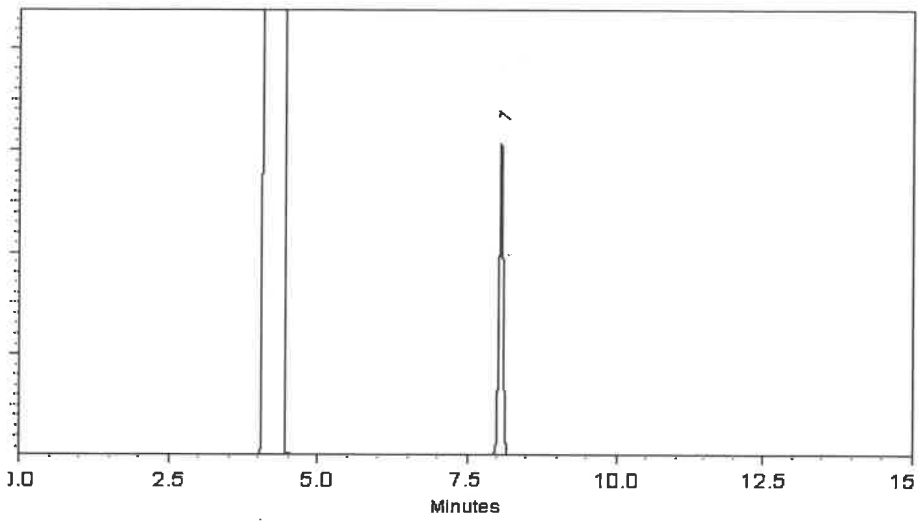
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

10 vial Rec 01/08/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14793 to 14802

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

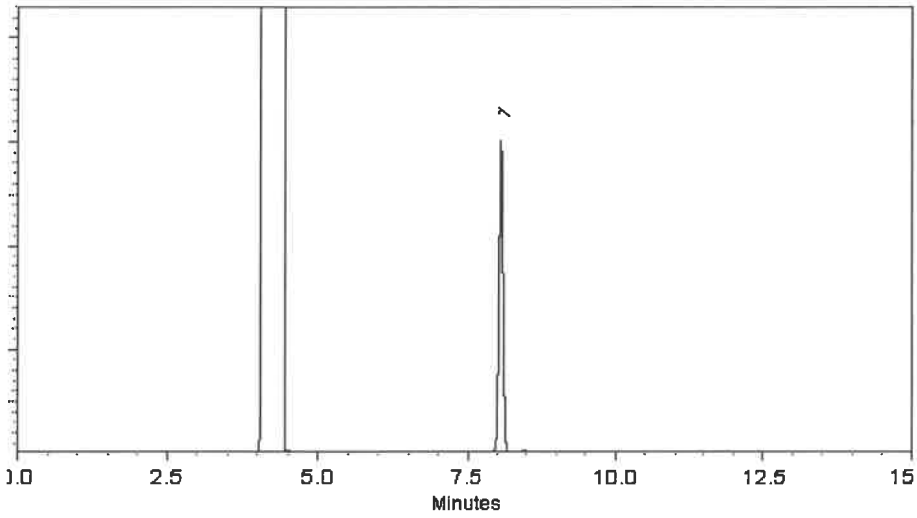
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

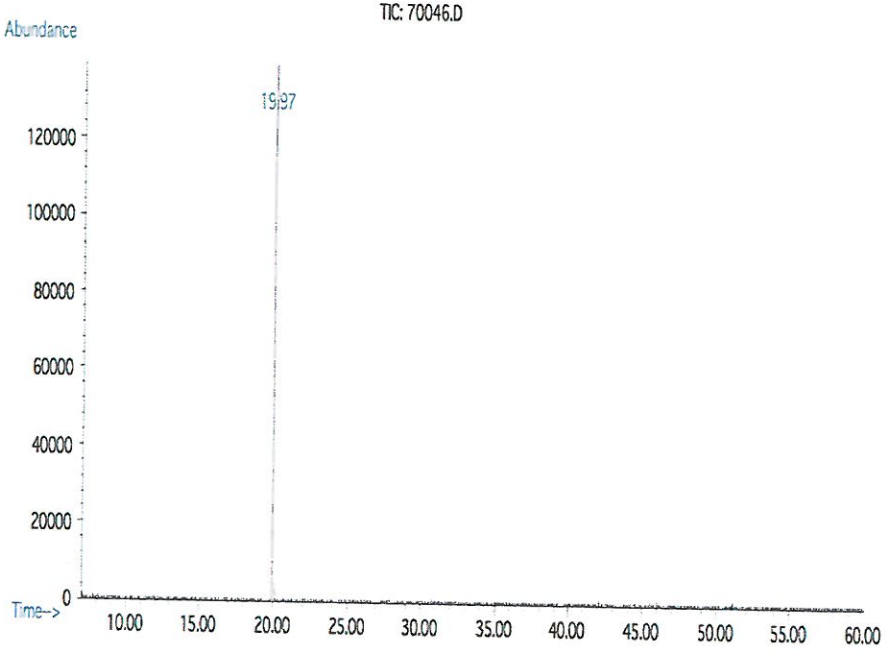
Weight(s) shown below were combined and diluted to (mL): 25.0

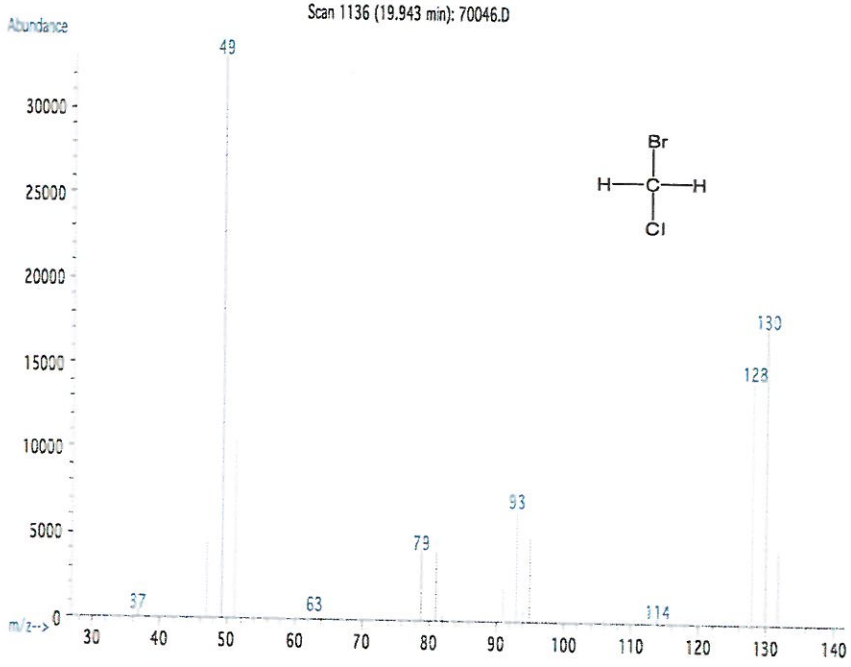
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Formulated By:	Gabriel Helland	070122 DATE
Reviewed By:	Pedro L. Rentas	070122 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

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

SHIPPING DOCUMENTS

Weston COC ID
Weston_20250210_1440

Chain of Custody Record/Lab Work Request

Page 1 of 1

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111169	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	21	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
SB - Soil Boring
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected	Analyses Requested: TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 6010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Sulfide by EPA 9034	Total Cyanide by EPA 9012B	PCB by EPA 8082A	Ignitability by EPA 1030	pH by EPA 9045D			Special Instructions/Comments
	Container Type:							Encore	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass			
	Container Size:							25g	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz			
	Preservative:							Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6			
1	~~TAP-SOIL-IDW-021025~~ TAP-IDW-SOIL-021025	c	DS	6	no	2/10/2025	13:40	X	X	X	X	X	X	X	X	X	X			
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

CH

FedEx Shipping Airbill Number: 7719 9075 4644

Cooler Number: 1 of 1

	Relinquished By	Date	Time	Received By	Date	Time	Additional Comments
1.)		10 Feb 25	1800	yg 3.1	2/11/2025 9:10		QSM 6.0 Compliant Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD
2.)							
3.)							

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

Quantitation Report (Not Reviewed)

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 11 01:58:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	134134	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	254149	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218570	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	90733	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	2473	1.259	ug/l	0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	2.520%#		
35) Dibromofluoromethane	5.379	113	2013	1.218	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	2.440%#		
50) Toluene-d8	8.653	98	6195	0.991	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	1.980%#		
62) 4-Bromofluorobenzene	11.085	95	1950	0.926	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	1.860%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	1655	0.880	ug/l	100
3) Chloromethane	1.307	50	2571	1.123	ug/l	94
4) Vinyl Chloride	1.374	62	2252	1.015	ug/l	96
5) Bromomethane	1.593	94	727	1.095	ug/l	91
6) Chloroethane	1.666	64	1341	2.609	ug/l	91
7) Trichlorofluoromethane	1.874	101	2849	1.016	ug/l	88
8) Diethyl Ether	2.130	74	1032	1.014	ug/l #	37
9) 1,1,2-Trichlorotrifluo...	2.325	101	1564	0.923	ug/l #	88
10) Methyl Iodide	2.447	142	1869	0.851	ug/l	99
11) Tert butyl alcohol	2.953	59	3020	8.291	ug/l #	78
12) 1,1-Dichloroethene	2.307	96	1737	1.005	ug/l	85
13) Acrolein	2.239	56	2228	5.928	ug/l	100
14) Allyl chloride	2.654	41	3164	1.013	ug/l	90
15) Acrylonitrile	3.069	53	4527	4.655	ug/l	95
16) Acetone	2.380	43	4095	5.188	ug/l	92
17) Carbon Disulfide	2.502	76	4531	0.956	ug/l #	88
18) Methyl Acetate	2.697	43	2367	0.950	ug/l	95
19) Methyl tert-butyl Ether	3.117	73	5206	0.946	ug/l #	87
20) Methylene Chloride	2.782	84	2005	1.037	ug/l #	90
21) trans-1,2-Dichloroethene	3.087	96	1631	0.959	ug/l	96
22) Diisopropyl ether	3.764	45	5496	0.930	ug/l #	75
23) Vinyl Acetate	3.727	43	20663	4.288	ug/l	99
24) 1,1-Dichloroethane	3.605	63	3099	0.937	ug/l #	93
25) 2-Butanone	4.587	43	5660	4.416	ug/l	93
26) 2,2-Dichloropropane	4.471	77	2566	0.978	ug/l	76
27) cis-1,2-Dichloroethene	4.489	96	1825	0.893	ug/l	91
28) Bromochloromethane	4.910	49	1702	1.071	ug/l #	75
29) Tetrahydrofuran	5.026	42	4014	4.716	ug/l	99
30) Chloroform	5.093	83	3132	0.976	ug/l	94
31) Cyclohexane	5.458	56	2960	0.971	ug/l #	80
32) 1,1,1-Trichloroethane	5.379	97	2721	1.000	ug/l #	50
36) 1,1-Dichloropropene	5.684	75	2399	1.006	ug/l	94
37) Ethyl Acetate	4.721	43	1004	0.379	ug/l #	72
38) Carbon Tetrachloride	5.666	117	2322	0.994	ug/l #	74
39) Methylcyclohexane	7.379	83	2589	0.840	ug/l	96
40) Benzene	6.038	78	6963	0.935	ug/l	94

Quantitation Report (Not Reviewed)

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 11 01:58:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.928	41	621	0.438 ug/l #	29
42) 1,2-Dichloroethane	6.099	62	2120	0.894 ug/l	84
43) Isopropyl Acetate	6.355	43	3839	0.897 ug/l #	88
44) Trichloroethene	7.135	130	1487	0.874 ug/l	76
45) 1,2-Dichloropropane	7.440	63	1746	0.943 ug/l #	86
46) Dibromomethane	7.592	93	1202	0.936 ug/l	95
47) Bromodichloromethane	7.818	83	2176	0.875 ug/l	93
48) Methyl methacrylate	7.720	41	1675	0.830 ug/l	92
49) 1,4-Dioxane	7.696	88	867	20.015 ug/l #	85
51) 4-Methyl-2-Pentanone	8.574	43	11169	4.290 ug/l	96
52) Toluene	8.714	92	3943	0.889 ug/l	100
53) t-1,3-Dichloropropene	8.994	75	2119	0.842 ug/l	90
54) cis-1,3-Dichloropropene	8.366	75	2300	0.820 ug/l #	86
55) 1,1,2-Trichloroethane	9.153	97	1558	0.914 ug/l #	86
56) Ethyl methacrylate	9.128	69	2346	0.852 ug/l #	84
57) 1,3-Dichloropropane	9.311	76	2699	0.905 ug/l	95
58) 2-Chloroethyl Vinyl ether	8.251	63	5401	3.996 ug/l	97
59) 2-Hexanone	9.439	43	7952	4.240 ug/l	95
60) Dibromochloromethane	9.525	129	1613	0.885 ug/l	96
61) 1,2-Dibromoethane	9.610	107	1534	0.888 ug/l	97
64) Tetrachloroethene	9.275	164	1339	0.971 ug/l	91
65) Chlorobenzene	10.080	112	4234	0.902 ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.165	131	1320	0.874 ug/l #	64
67) Ethyl Benzene	10.195	91	7388	0.892 ug/l	98
68) m/p-Xylenes	10.299	106	5387	1.763 ug/l	100
69) o-Xylene	10.640	106	2889	0.942 ug/l	97
70) Styrene	10.659	104	3974	0.804 ug/l	97
71) Bromoform	10.799	173	813	0.721 ug/l #	95
73) Isopropylbenzene	10.964	105	6778	0.928 ug/l	99
74) N-amyl acetate	10.848	43	2596	0.785 ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.207	83	2594	1.033 ug/l	94
76) 1,2,3-Trichloropropane	11.238	75	2567	1.276 ug/l	82
77) Bromobenzene	11.201	156	1537	0.928 ug/l	90
78) n-propylbenzene	11.305	91	7347	0.871 ug/l	98
79) 2-Chlorotoluene	11.366	91	5188	1.001 ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	5410	0.913 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.024	75	587	0.751 ug/l #	79
82) 4-Chlorotoluene	11.457	91	5367	0.936 ug/l	99
83) tert-Butylbenzene	11.713	119	5620	0.937 ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	4876	0.833 ug/l	88
85) sec-Butylbenzene	11.890	105	6700	0.902 ug/l	99
86) p-Isopropyltoluene	12.006	119	5161	0.864 ug/l	90
87) 1,3-Dichlorobenzene	11.969	146	2933	0.963 ug/l	97
88) 1,4-Dichlorobenzene	11.969	146	2933	0.952 ug/l	99
89) n-Butylbenzene	12.335	91	3880	0.734 ug/l	93
90) Hexachloroethane	12.536	117	968	0.866 ug/l	98
91) 1,2-Dichlorobenzene	12.341	146	2744	0.917 ug/l	96
92) 1,2-Dibromo-3-Chloropr...	12.945	75	367	0.801 ug/l	95
93) 1,2,4-Trichlorobenzene	13.591	180	1560	0.861 ug/l	86
94) Hexachlorobutadiene	13.725	225	695	0.966 ug/l	99
95) Naphthalene	13.780	128	5125	0.783 ug/l	99
96) 1,2,3-Trichlorobenzene	13.969	180	1557	0.853 ug/l	93

Quantitation Report (Not Reviewed)

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 11 01:58:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

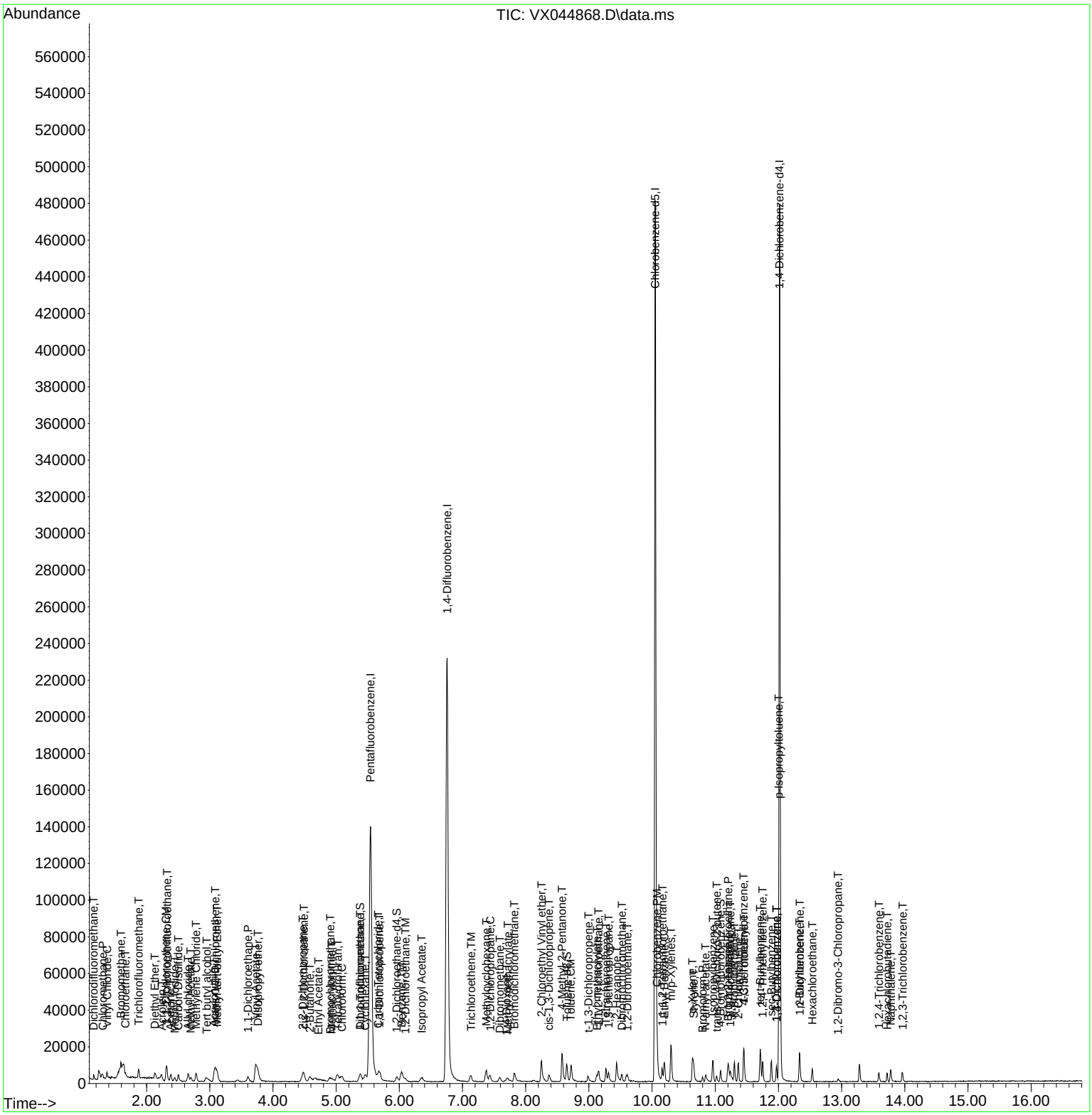
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

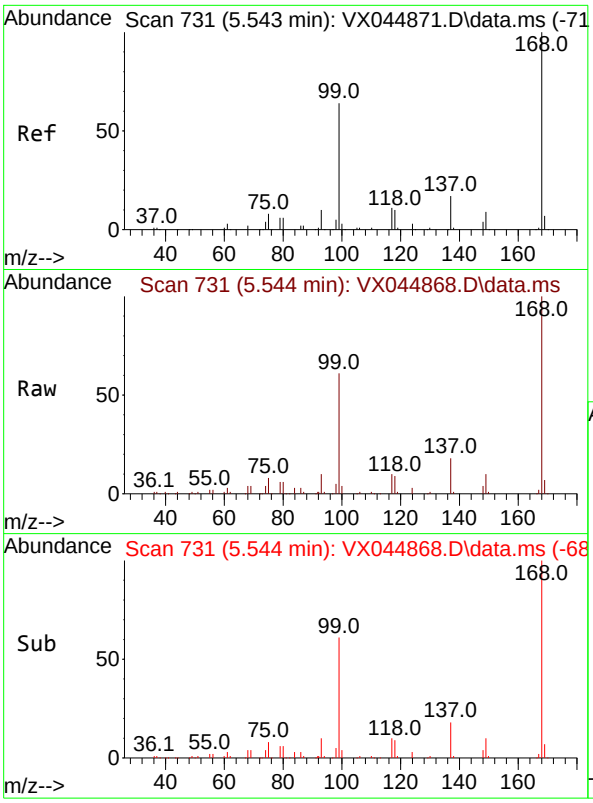
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Feb 11 01:58:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



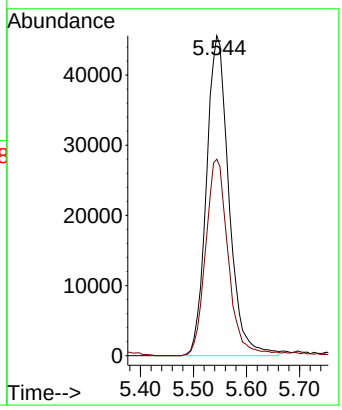


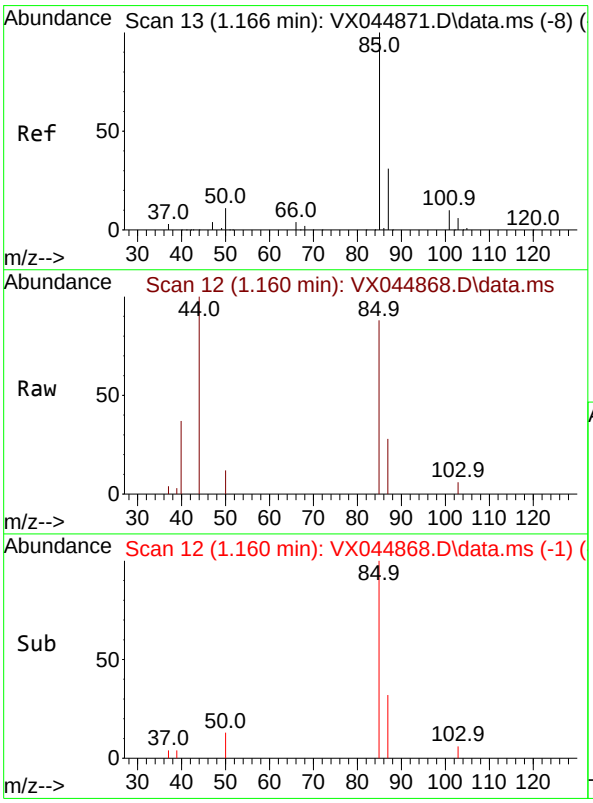
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 134134

Ion	Ratio	Lower	Upper
168	100		
99	61.4	51.2	76.8

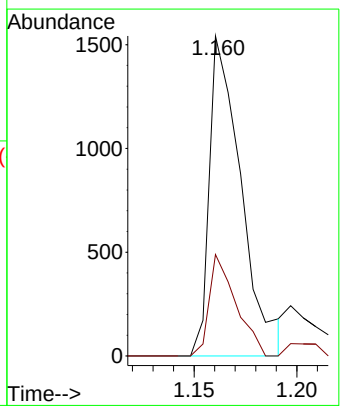


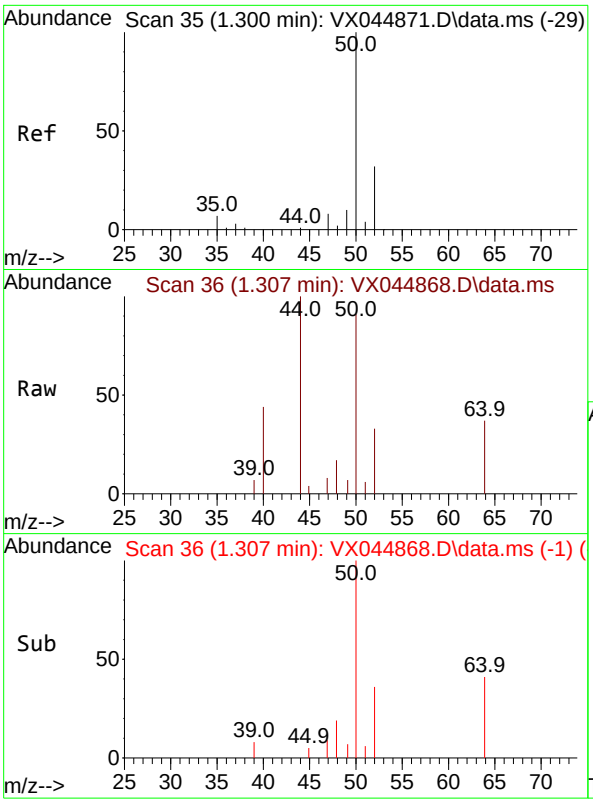


#2
Dichlorodifluoromethane
Concen: 0.880 ug/l
RT: 1.160 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 85 Resp: 1655

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3



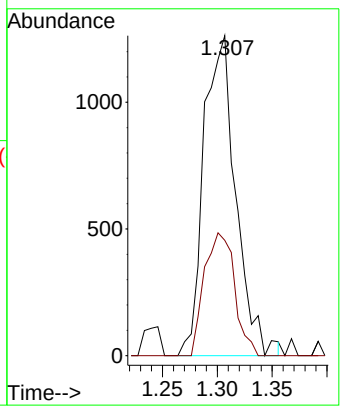


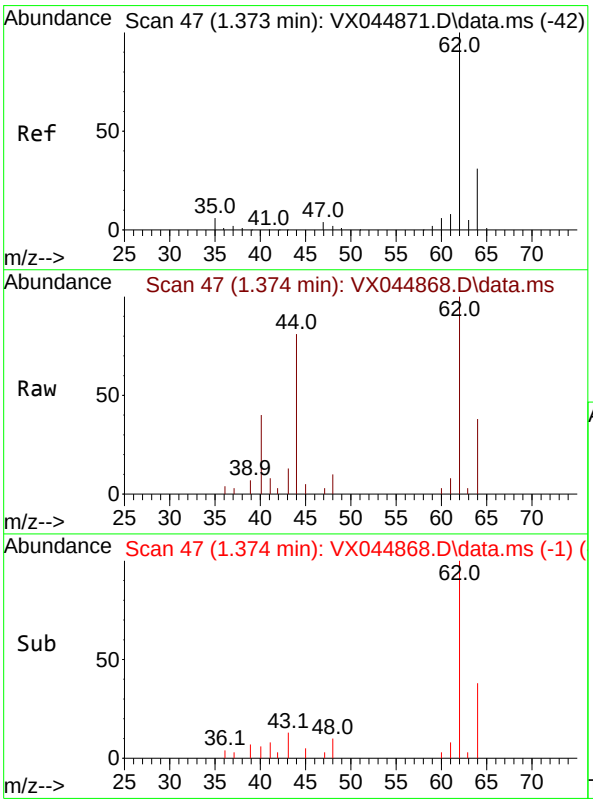
#3
Chloromethane
Concen: 1.123 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 2571

Ion	Ratio	Lower	Upper
50	100		
52	36.0	25.9	38.9

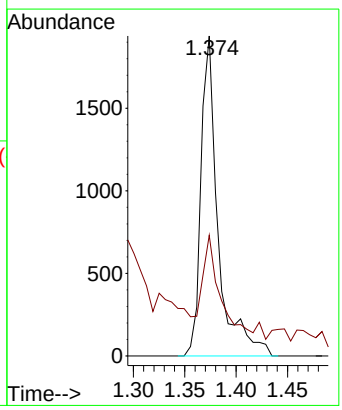


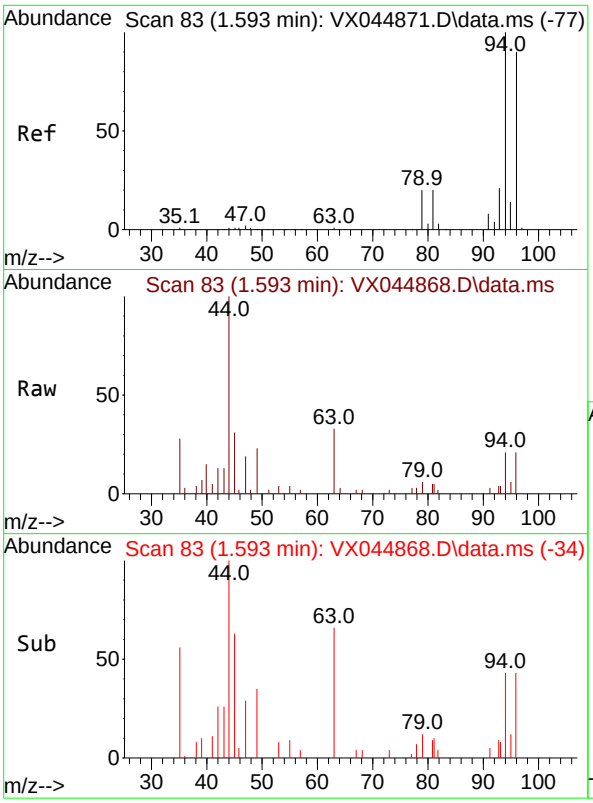


#4
Vinyl Chloride
Concen: 1.015 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 2252

Ion	Ratio	Lower	Upper
62	100		
64	29.4	25.4	38.0



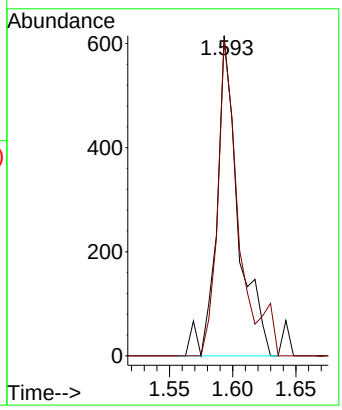


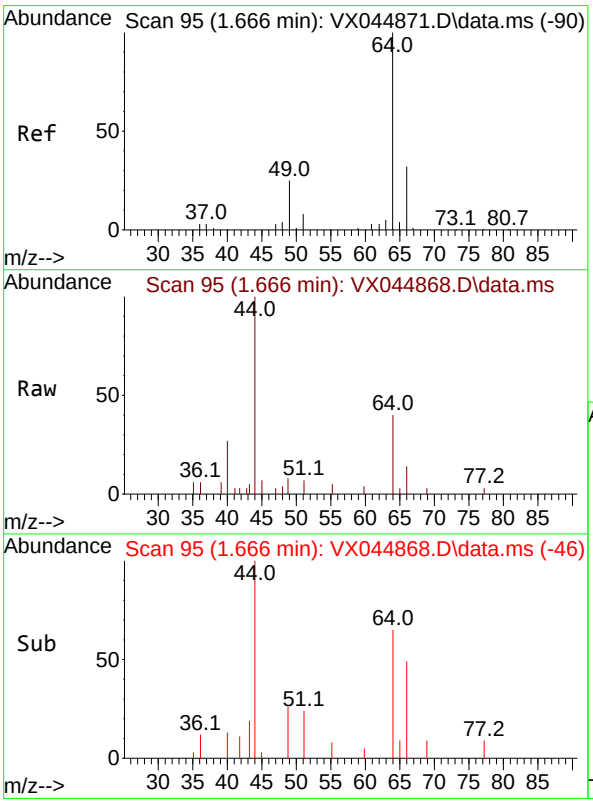
#5
Bromomethane
Concen: 1.095 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 727

Ion	Ratio	Lower	Upper
94	100		
96	98.4	71.6	107.4

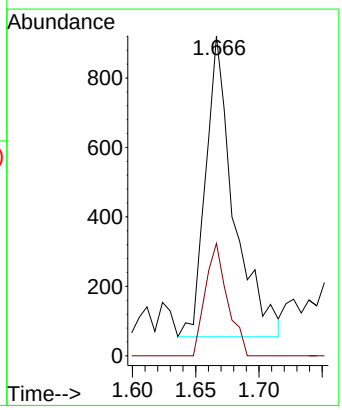


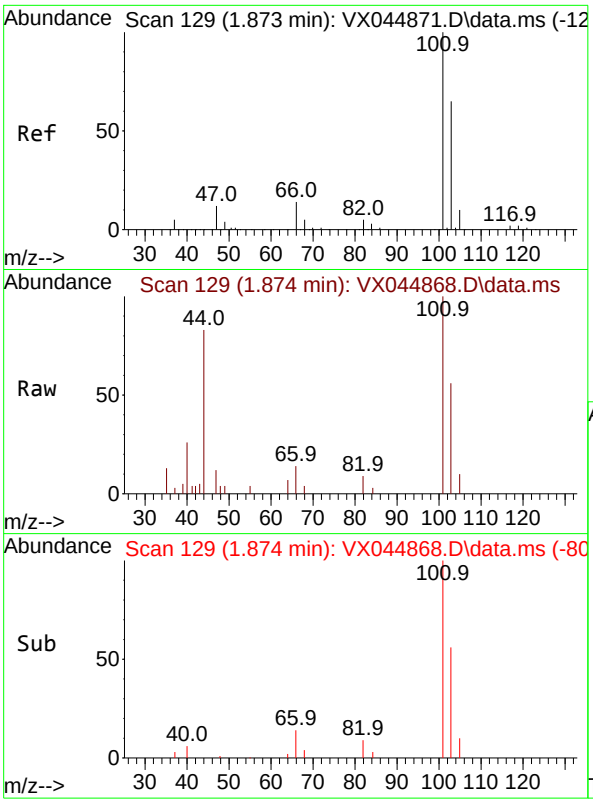


#6
Chloroethane
Concen: 2.609 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 64 Resp: 1341

Ion	Ratio	Lower	Upper
64	100		
66	37.4	25.9	38.9



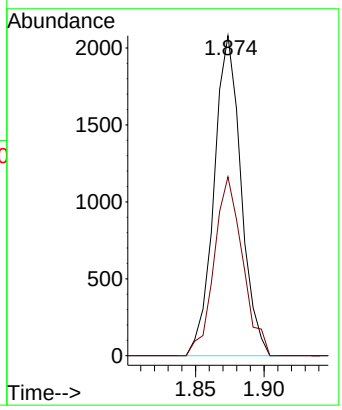


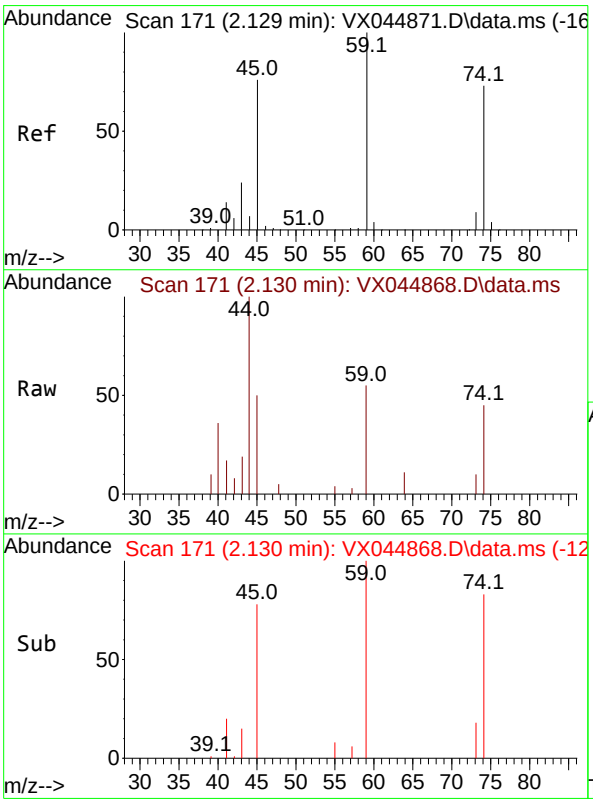
#7
Trichlorofluoromethane
Concen: 1.016 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 2849

Ion	Ratio	Lower	Upper
101	100		
103	55.9	52.4	78.6

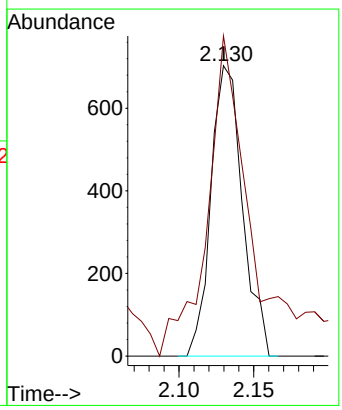


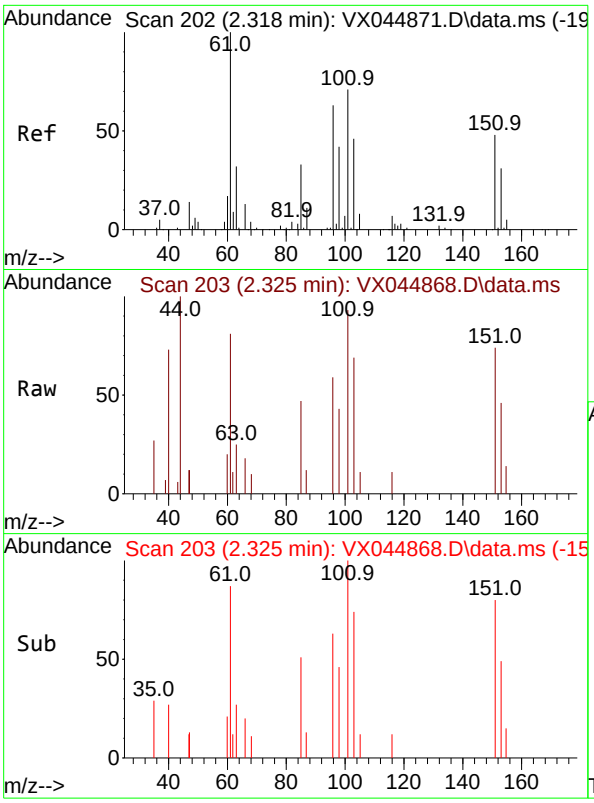


#8
Diethyl Ether
Concen: 1.014 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 74 Resp: 1032

Ion	Ratio	Lower	Upper
74	100		
45	166.1	51.1	153.4#



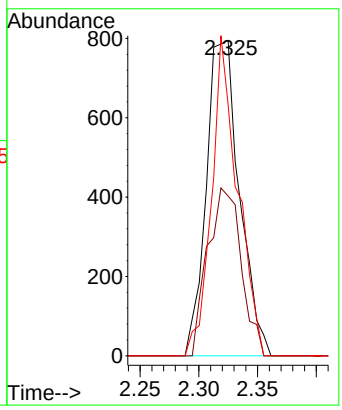


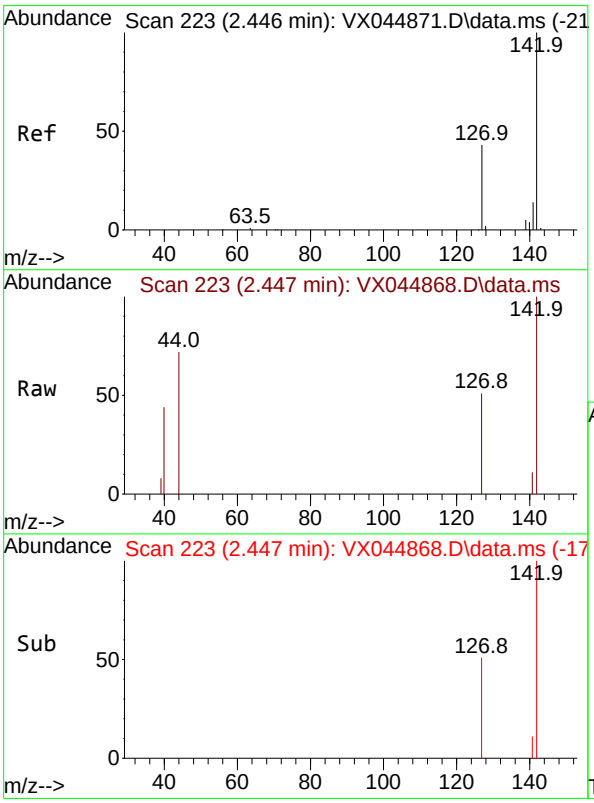
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.923 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1564

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

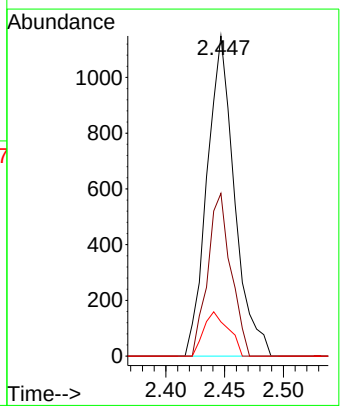


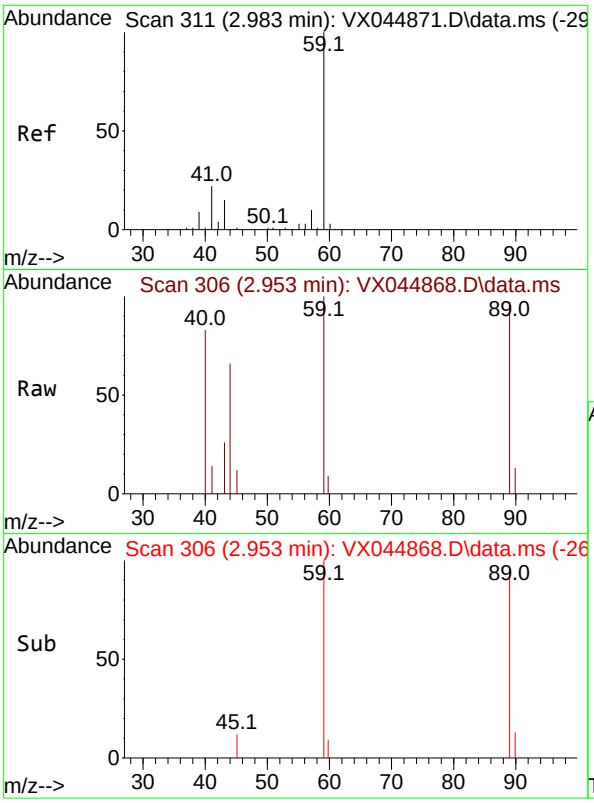


#10
Methyl Iodide
Concen: 0.851 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:142 Resp: 1869

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.3	51.5
141	12.4	11.4	17.2



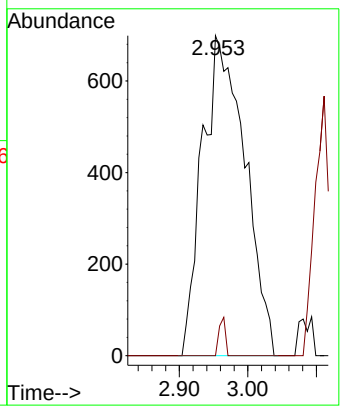


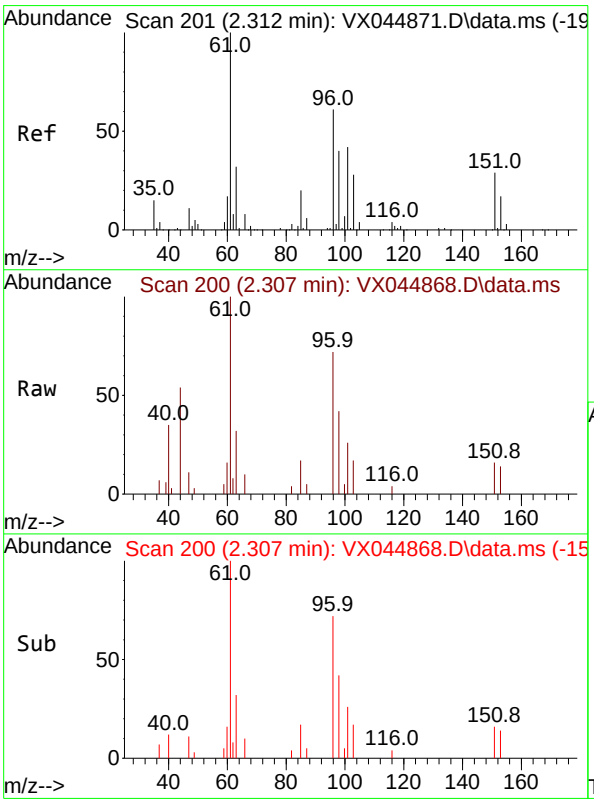
#11
Tert butyl alcohol
Concen: 8.291 ug/l
RT: 2.953 min Scan# 3
Delta R.T. -0.030 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 3020

Ion	Ratio	Lower	Upper
59	100		
57	1.8	8.1	12.1#

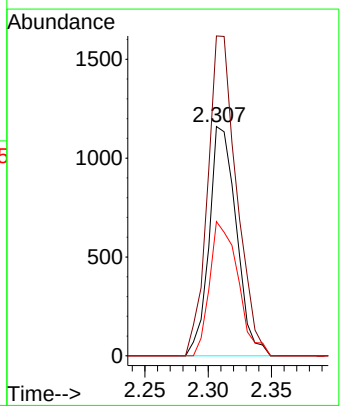


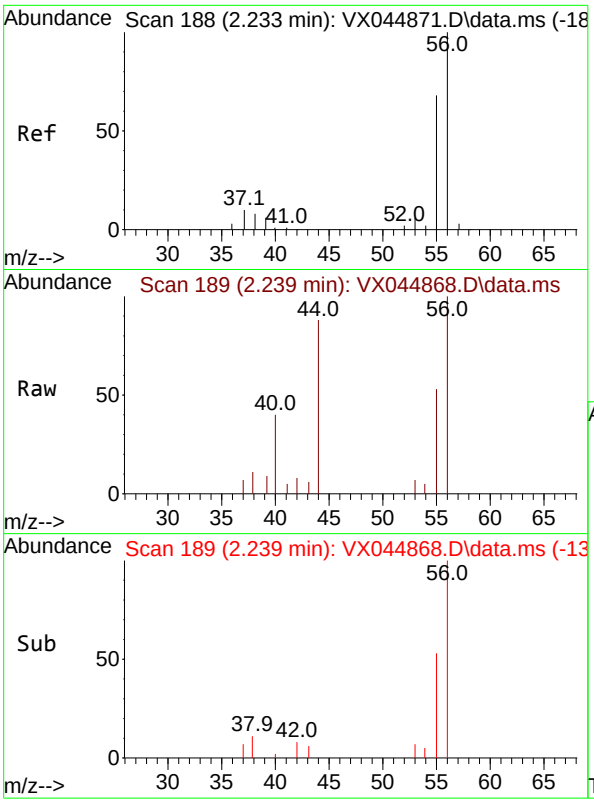


#12
1,1-Dichloroethene
Concen: 1.005 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 96 Resp: 1737

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



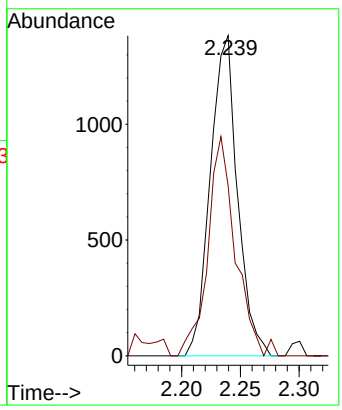


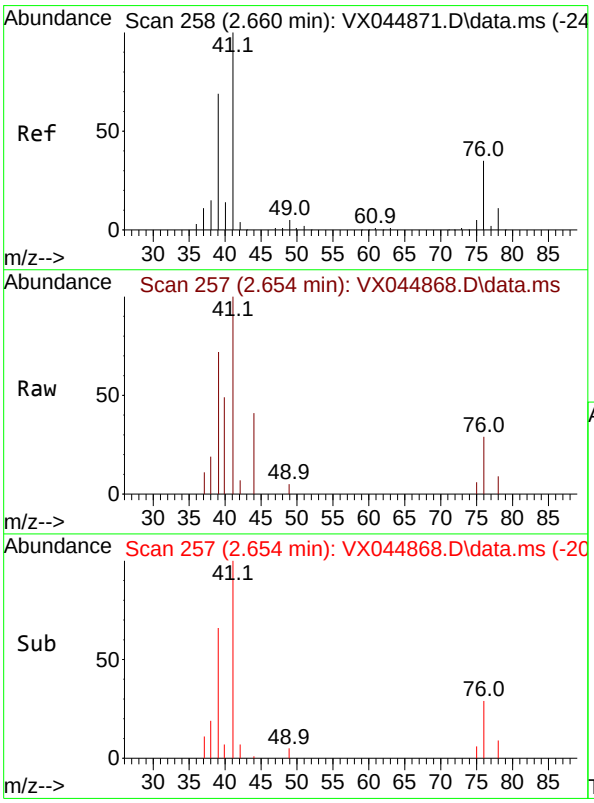
#13
Acrolein
Concen: 5.928 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2228

Ion	Ratio	Lower	Upper
56	100		
55	69.5	55.7	83.5

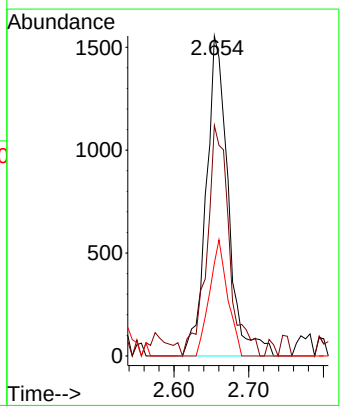


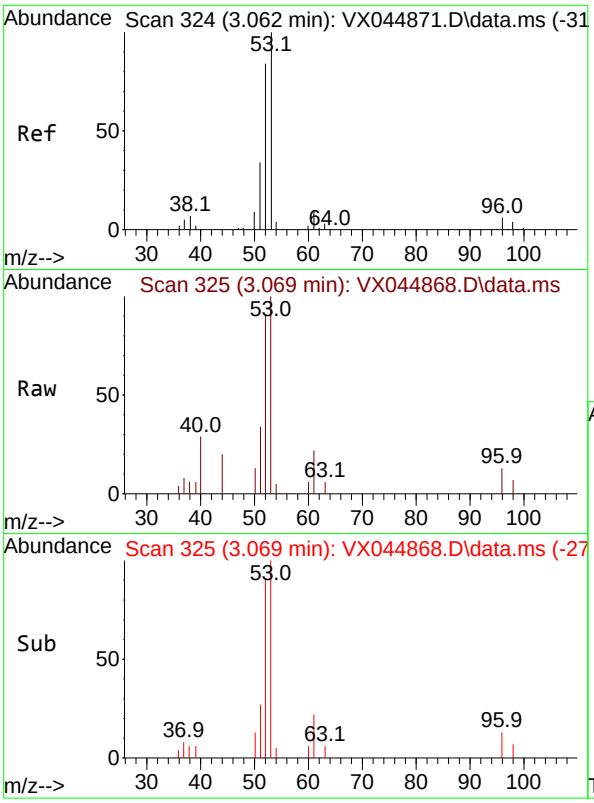


#14
Allyl chloride
Concen: 1.013 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 3164

Ion	Ratio	Lower	Upper
41	100		
39	73.5	51.4	77.2
76	29.9	27.0	40.4



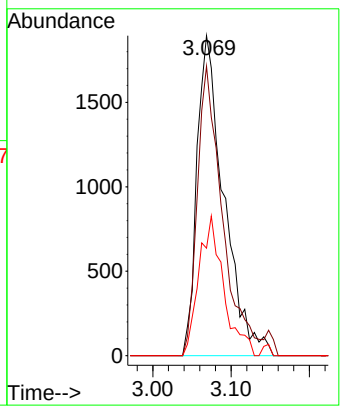


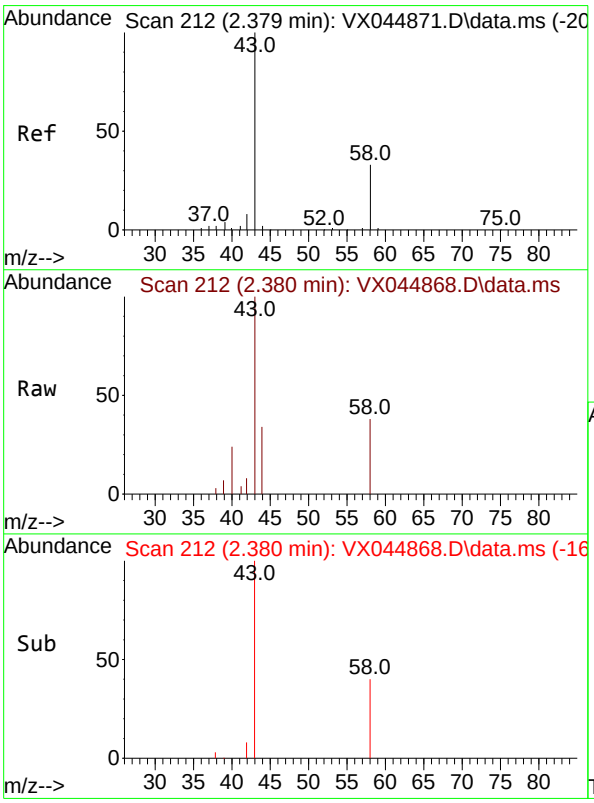
#15
Acrylonitrile
Concen: 4.655 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 4527

Ion	Ratio	Lower	Upper
53	100		
52	84.7	65.0	97.6
51	40.0	28.0	42.0

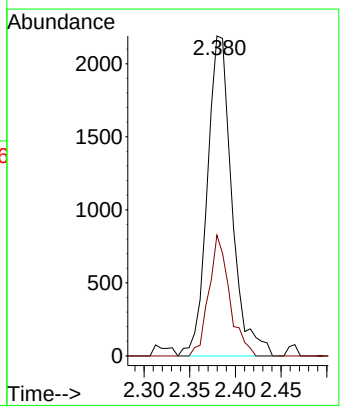


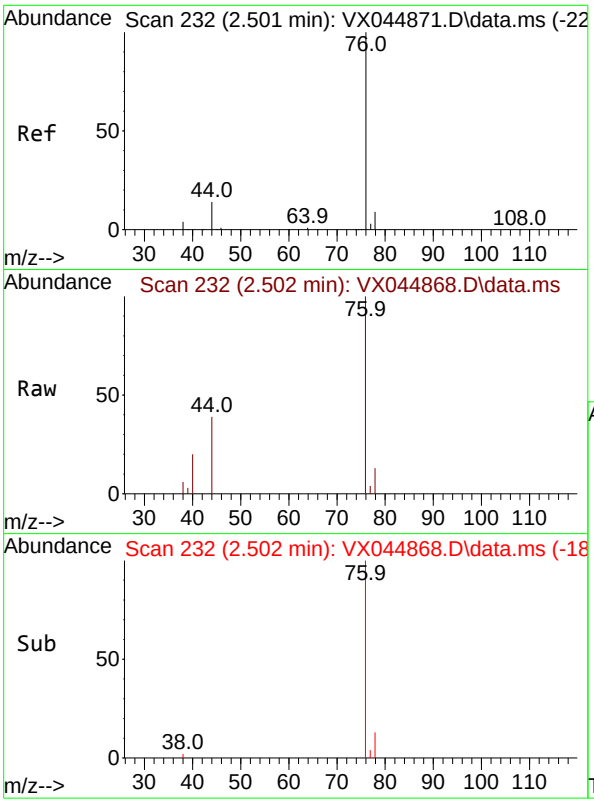


#16
Acetone
Concen: 5.188 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 4095

Ion	Ratio	Lower	Upper
43	100		
58	37.8	26.5	39.7



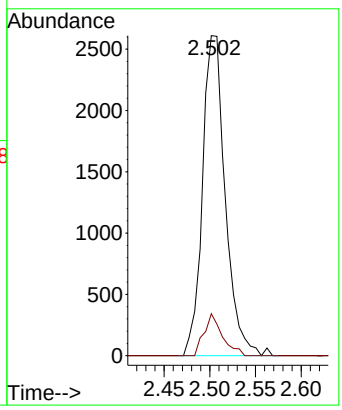


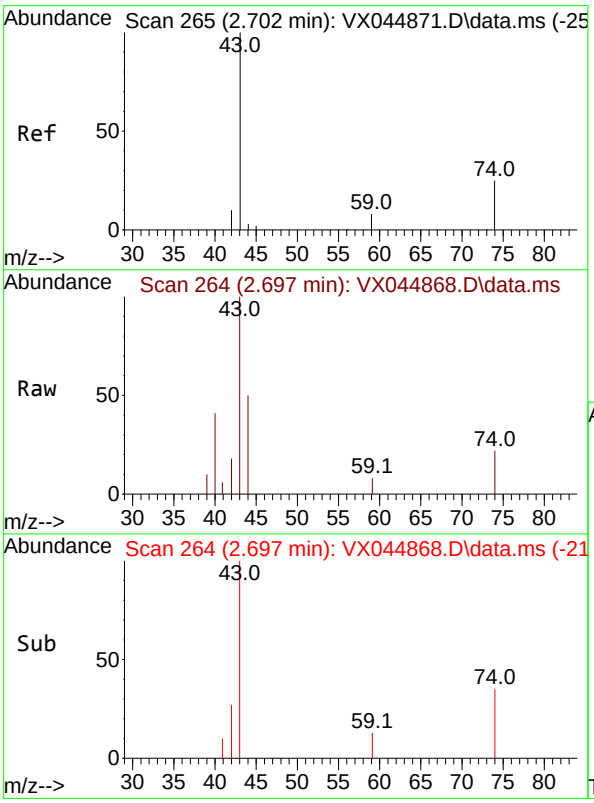
#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 4531

Ion	Ratio	Lower	Upper
76	100		
78	13.1	7.0	10.4#

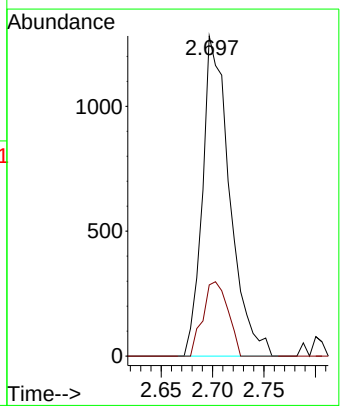


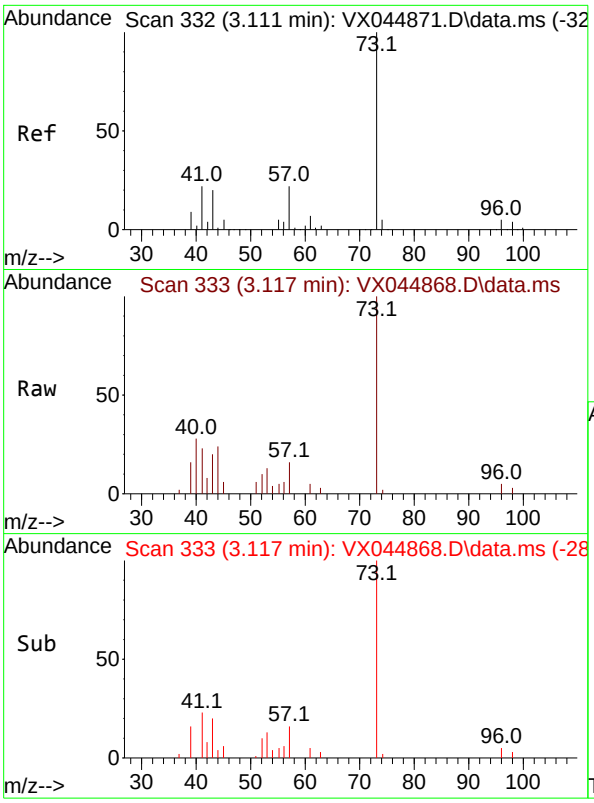


#18
Methyl Acetate
Concen: 0.950 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2367

Ion	Ratio	Lower	Upper
43	100		
74	21.3	18.9	28.3



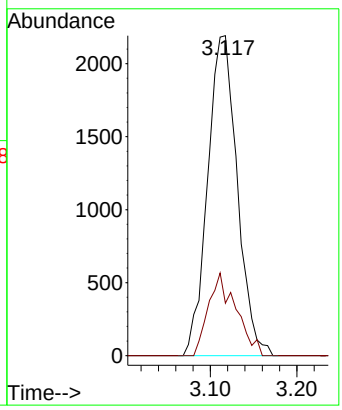


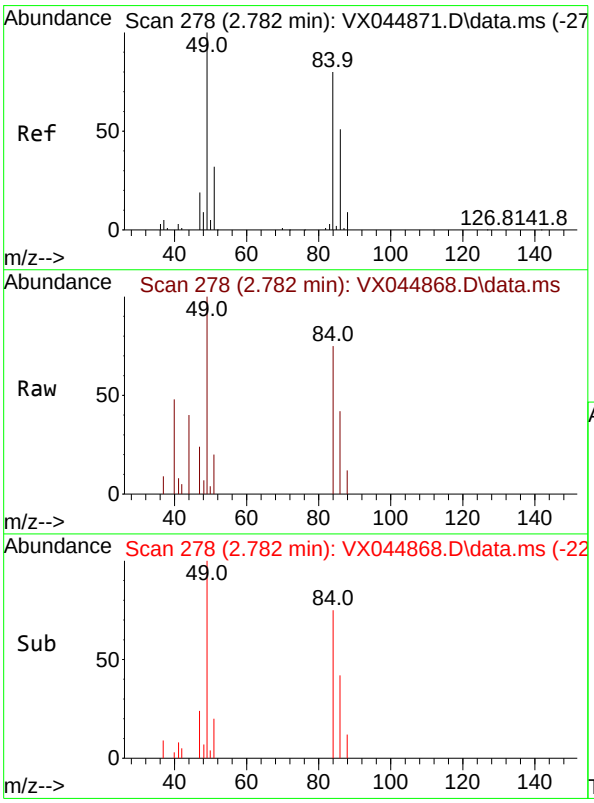
#19
Methyl tert-butyl Ether
Concen: 0.946 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 5206

Ion	Ratio	Lower	Upper
73	100		
57	16.4	17.9	26.9#

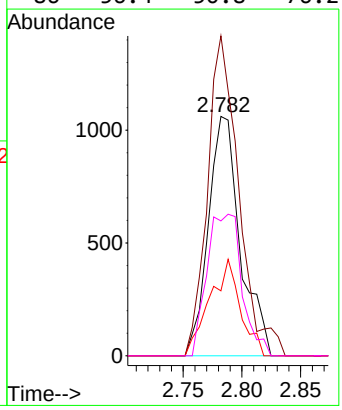


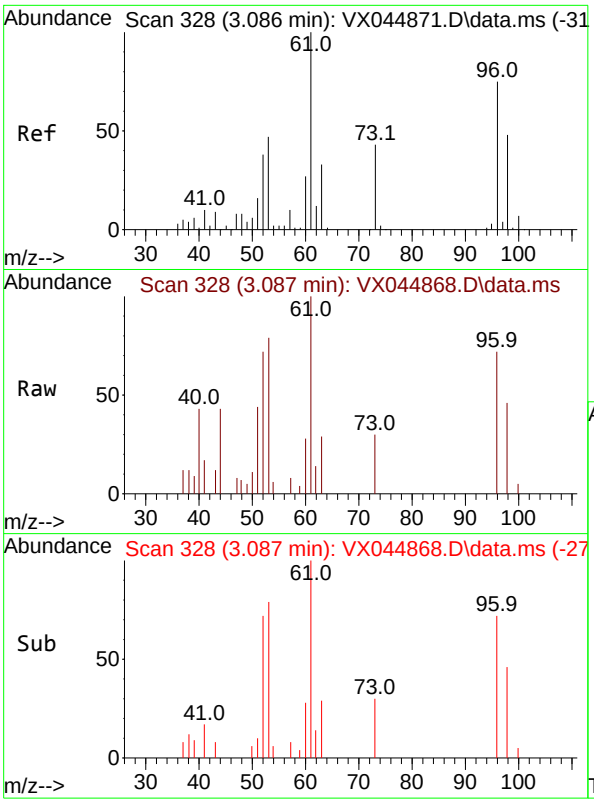


#20
Methylene Chloride
Concen: 1.037 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 84 Resp: 2005

Ion	Ratio	Lower	Upper
84	100		
49	133.6	100.1	150.1
51	27.1	31.7	47.5#
86	56.4	50.8	76.2



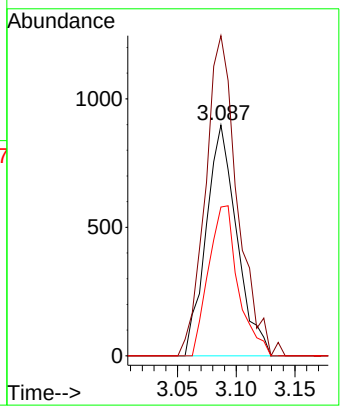


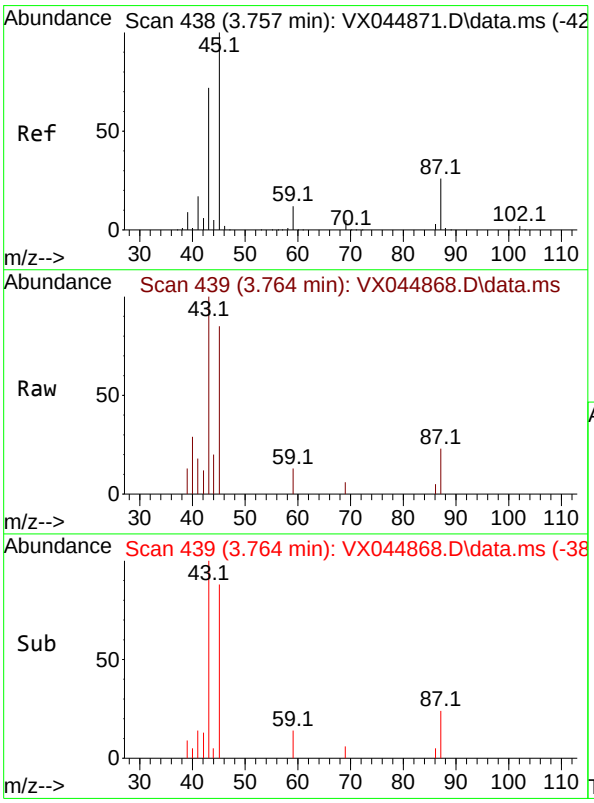
#21
trans-1,2-Dichloroethene
Concen: 0.959 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1631

Ion	Ratio	Lower	Upper
96	100		
61	138.8	106.0	159.0
98	64.5	50.6	76.0

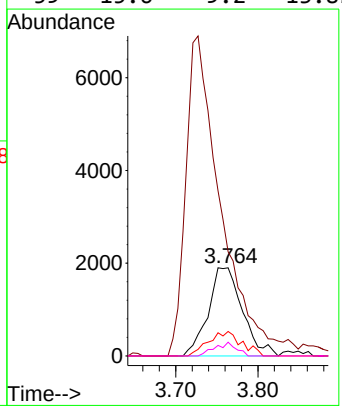


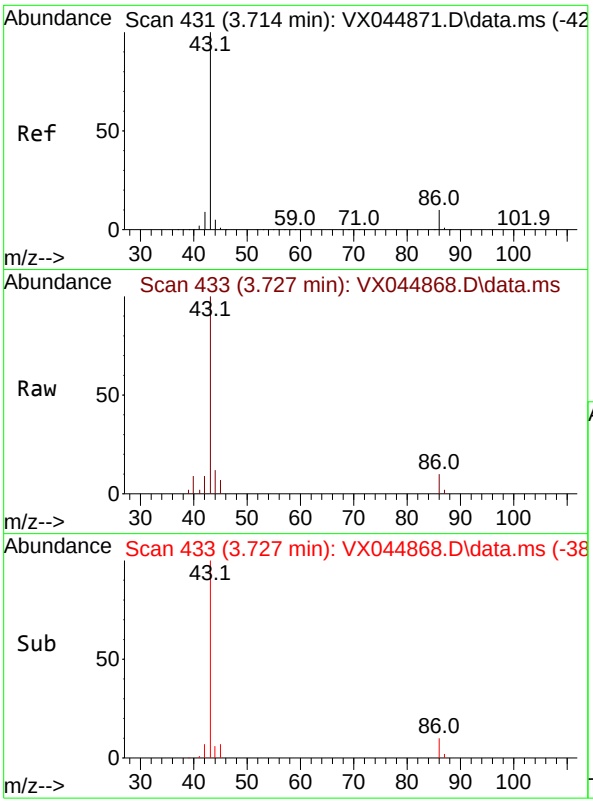


#22
Diisopropyl ether
Concen: 0.930 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 45 Resp: 5496

Ion	Ratio	Lower	Upper
45	100		
43	101.2	58.0	87.0#
87	27.8	20.7	31.1
59	15.6	9.2	13.8#



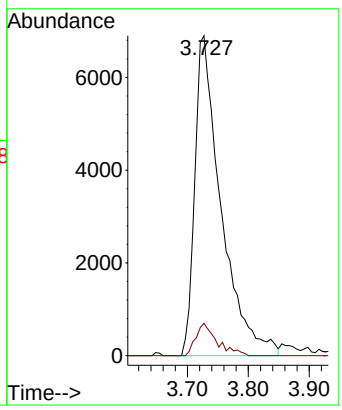


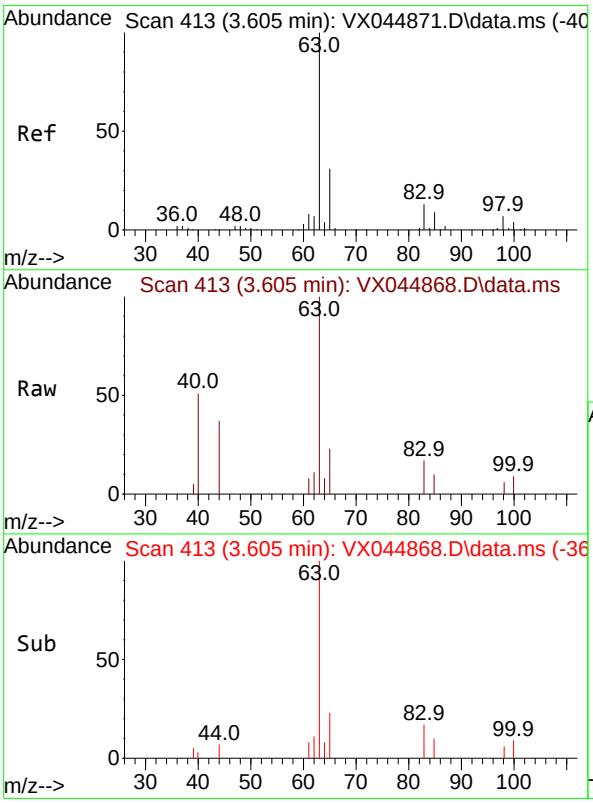
#23
Vinyl Acetate
Concen: 4.288 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 20663

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.3	12.5

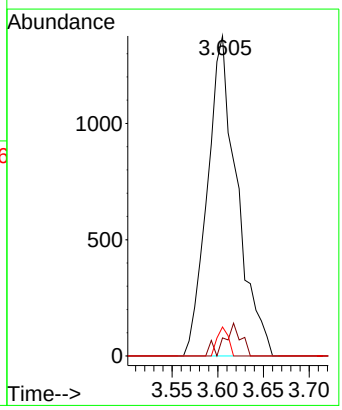


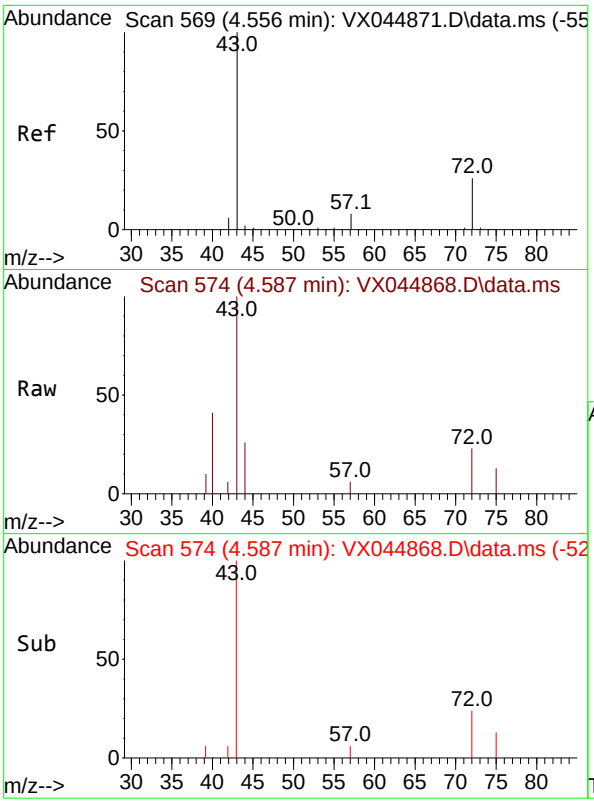


#24
1,1-Dichloroethane
Concen: 0.937 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 3099

Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.3	9.9
100	9.1	2.1	6.5#



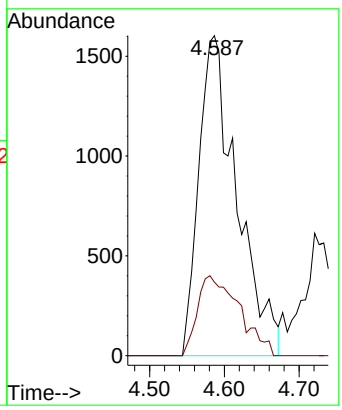


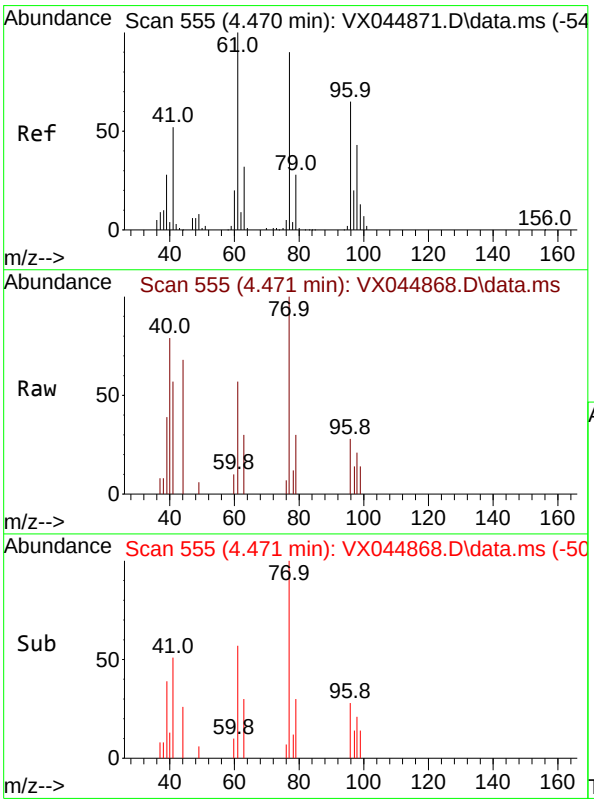
#25
2-Butanone
Concen: 4.416 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 5660

Ion	Ratio	Lower	Upper
43	100		
72	23.0	21.2	31.8

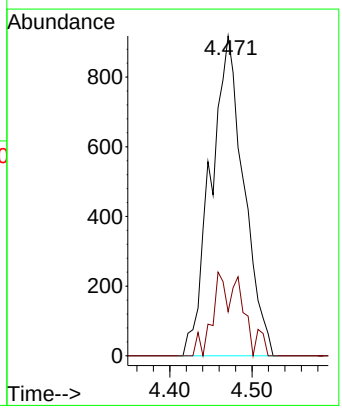


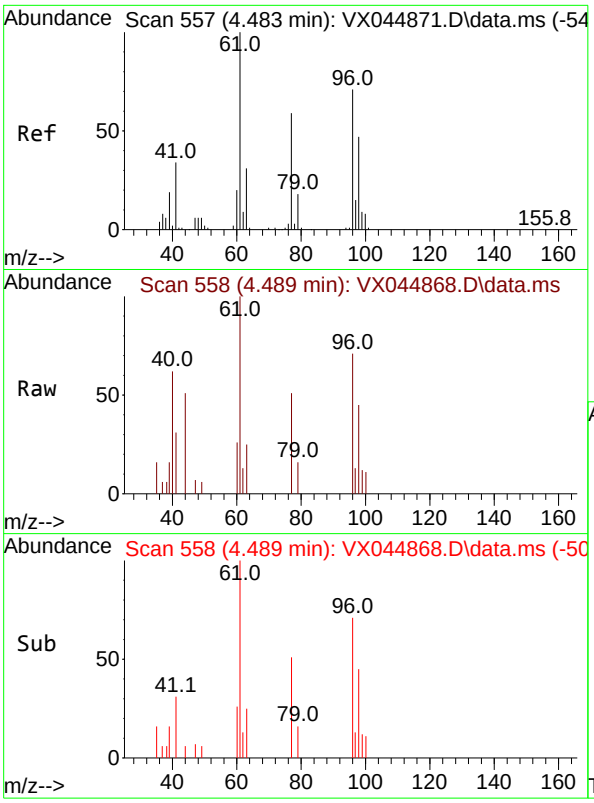


#26
2,2-Dichloropropane
Concen: 0.978 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 77 Resp: 2566

Ion	Ratio	Lower	Upper
77	100		
97	11.8	11.8	35.3



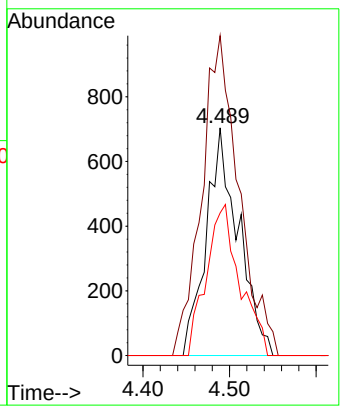


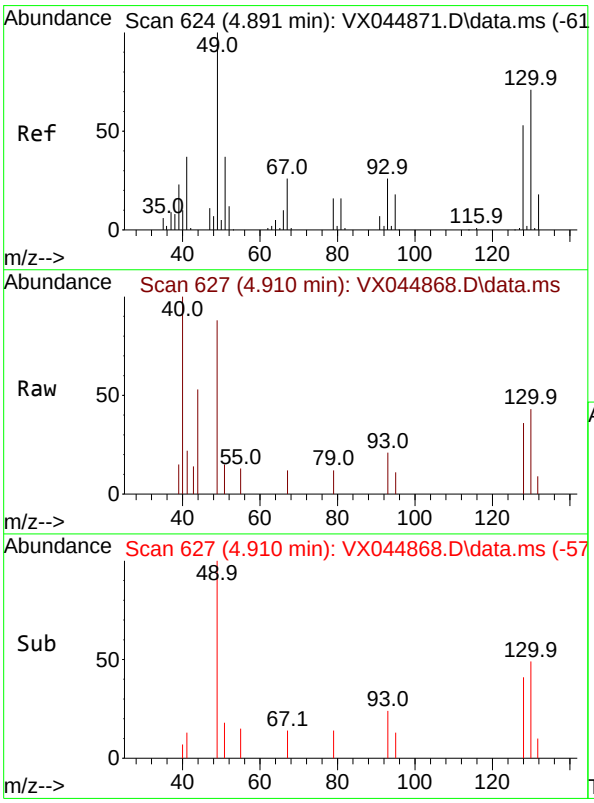
#27
cis-1,2-Dichloroethene
Concen: 0.893 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1825

Ion	Ratio	Lower	Upper
96	100		
61	161.6	0.0	294.0
98	68.9	0.0	131.2

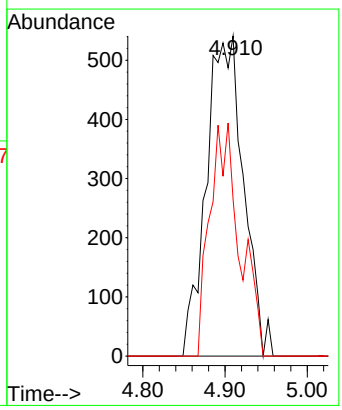


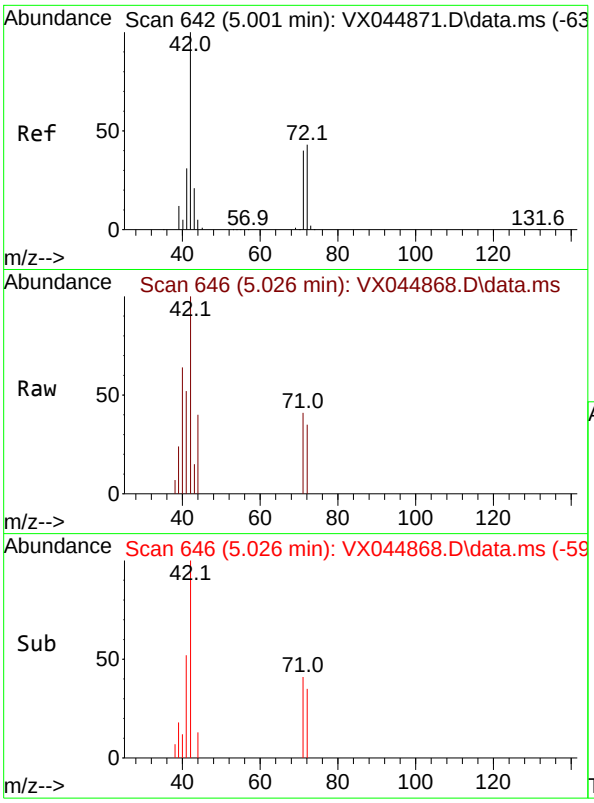


#28
Bromochloromethane
Concen: 1.071 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 49 Resp: 1702

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	49.6	56.7	85.1#



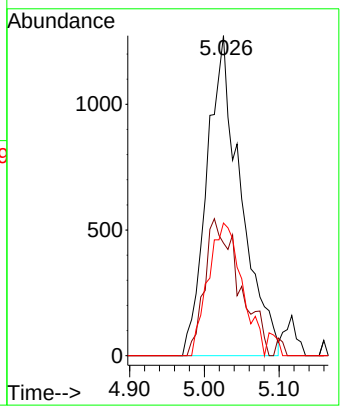


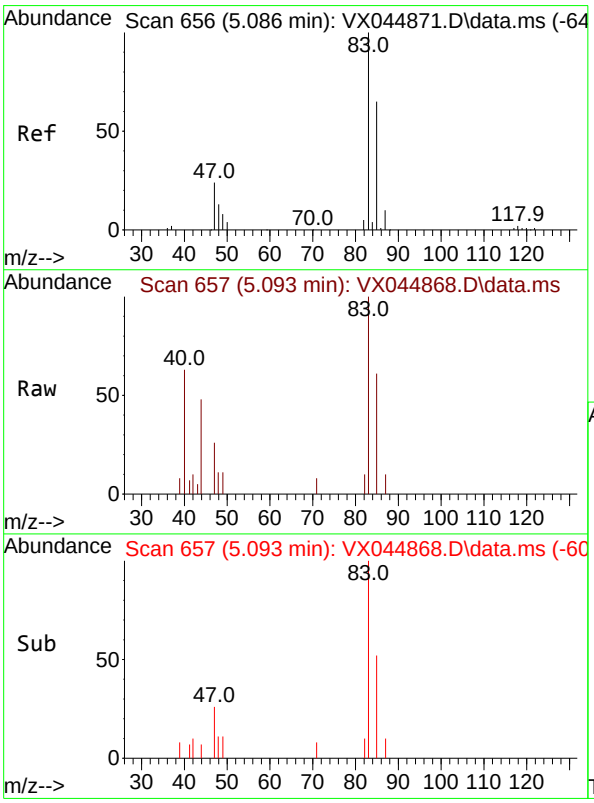
#29
Tetrahydrofuran
Concen: 4.716 ug/l
RT: 5.026 min Scan# 64
Delta R.T. 0.025 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 4014

Ion	Ratio	Lower	Upper
42	100		
72	43.8	35.0	52.4
71	41.3	32.6	48.8

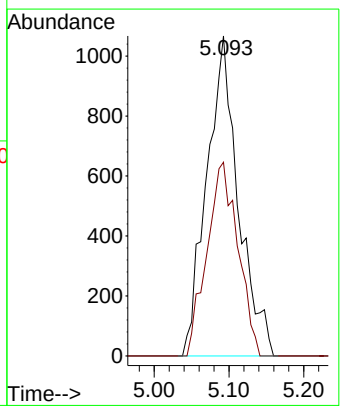


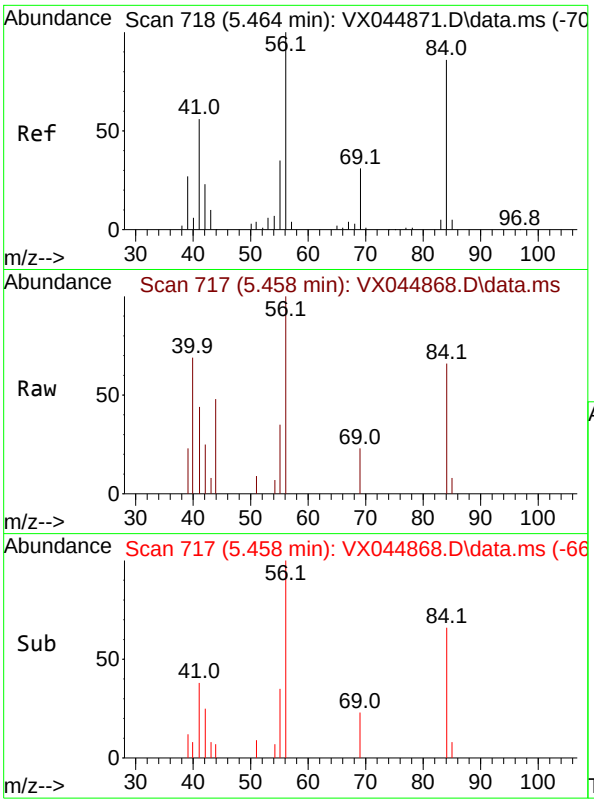


#30
Chloroform
Concen: 0.976 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 83 Resp: 3132

Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.1	78.1



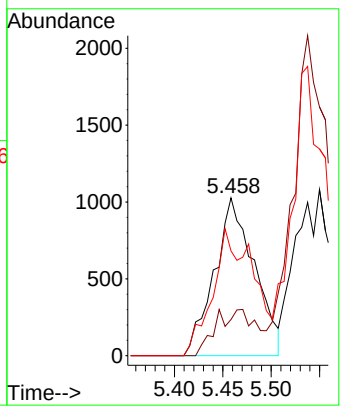


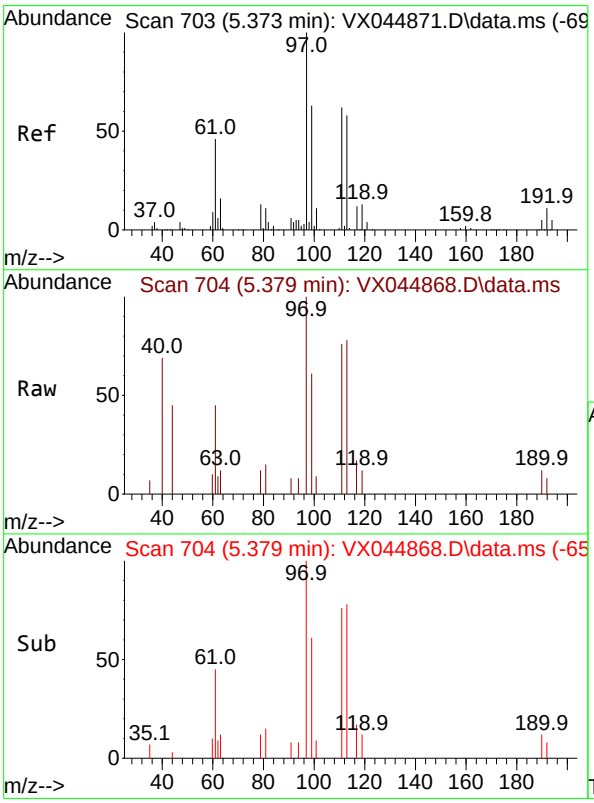
#31
Cyclohexane
Concen: 0.971 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2960

Ion	Ratio	Lower	Upper
56	100		
69	23.0	24.4	36.6#
84	66.4	69.0	103.6#

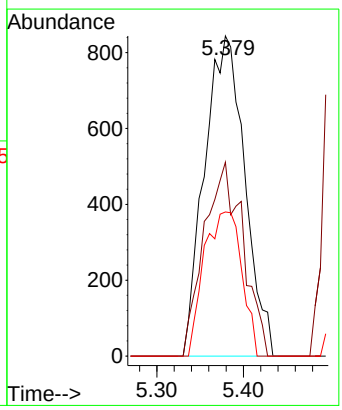


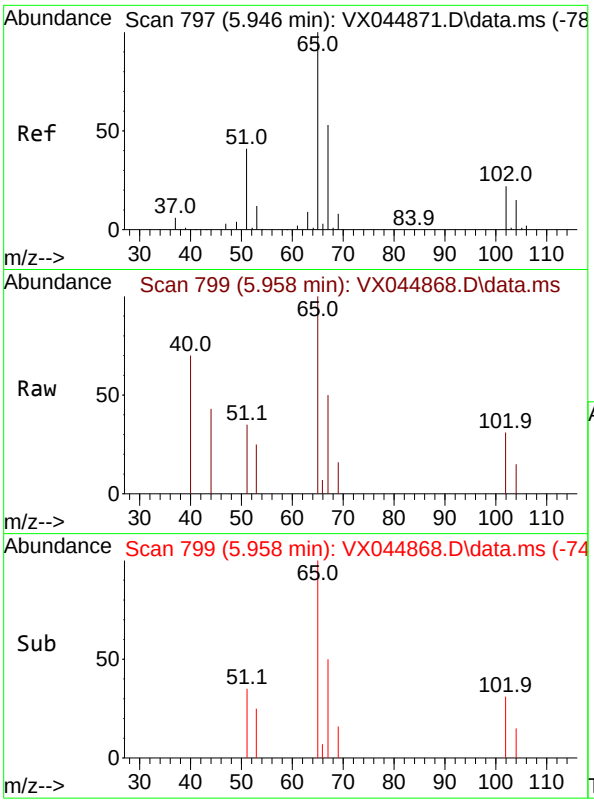


#32
1,1,1-Trichloroethane
Concen: 1.000 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 97 Resp: 2721

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6#
61	42.2	36.6	55.0



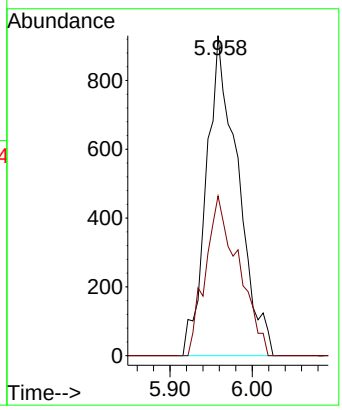


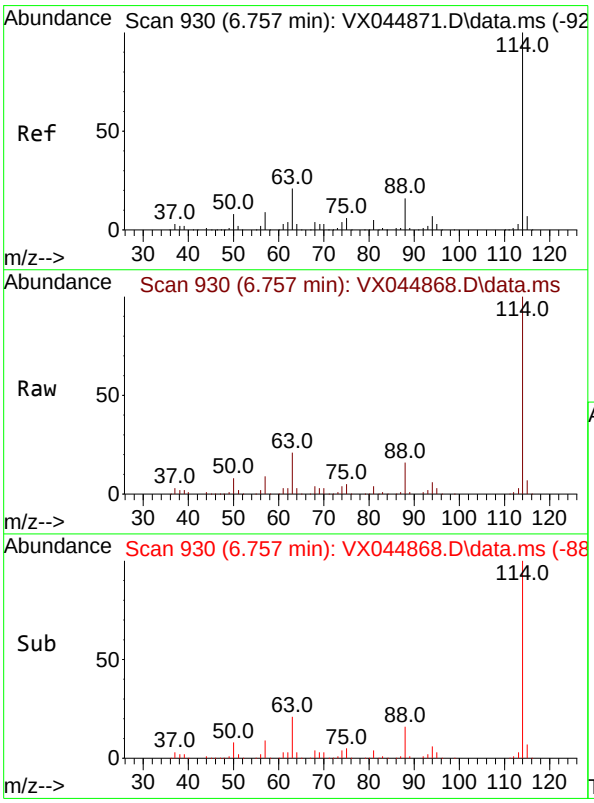
#33
1,2-Dichloroethane-d4
Concen: 1.259 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 2473

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	108.2

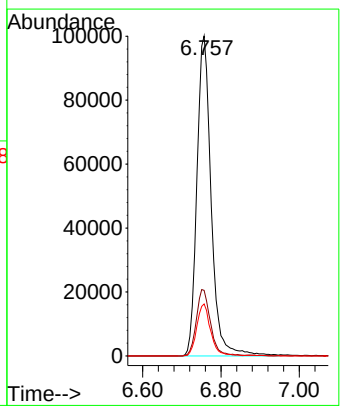


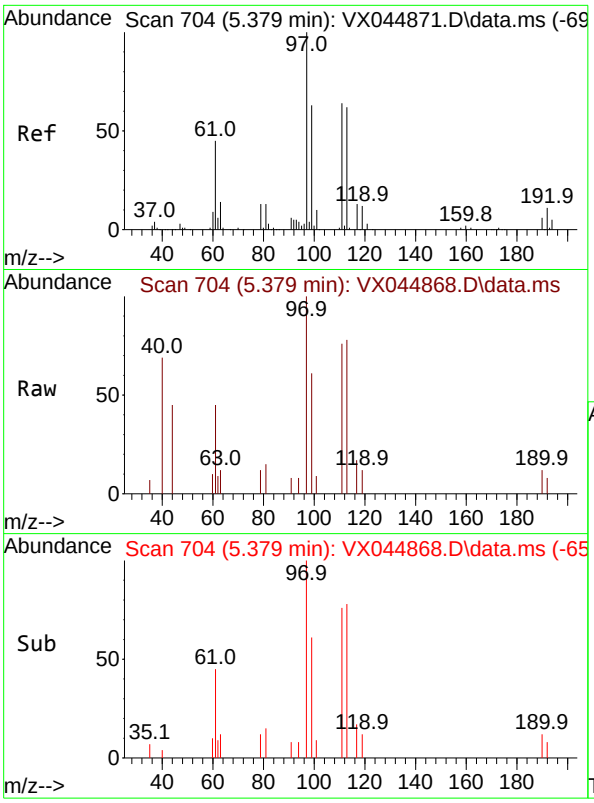


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:114 Resp: 254149

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.4
88	16.3	0.0	31.4



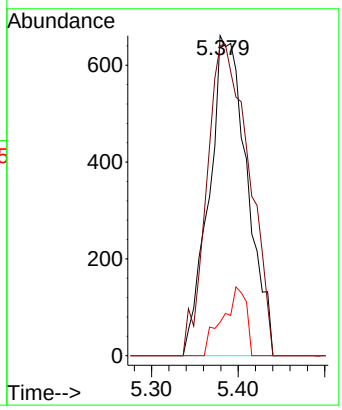


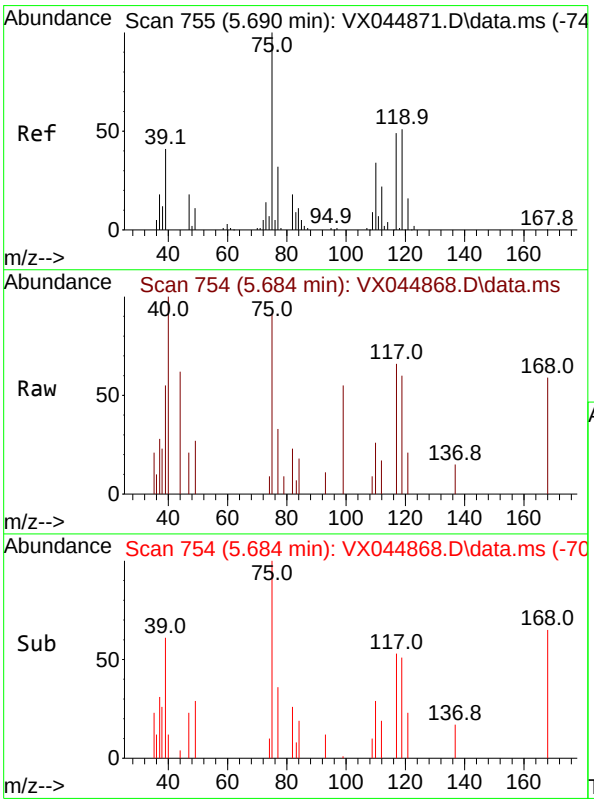
#35
Dibromofluoromethane
Concen: 1.218 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 2013

Ion	Ratio	Lower	Upper
113	100		
111	107.9	83.5	125.3
192	13.4	14.4	21.6#

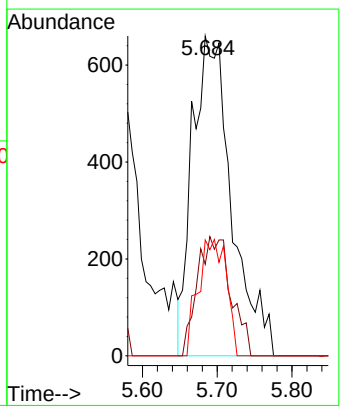


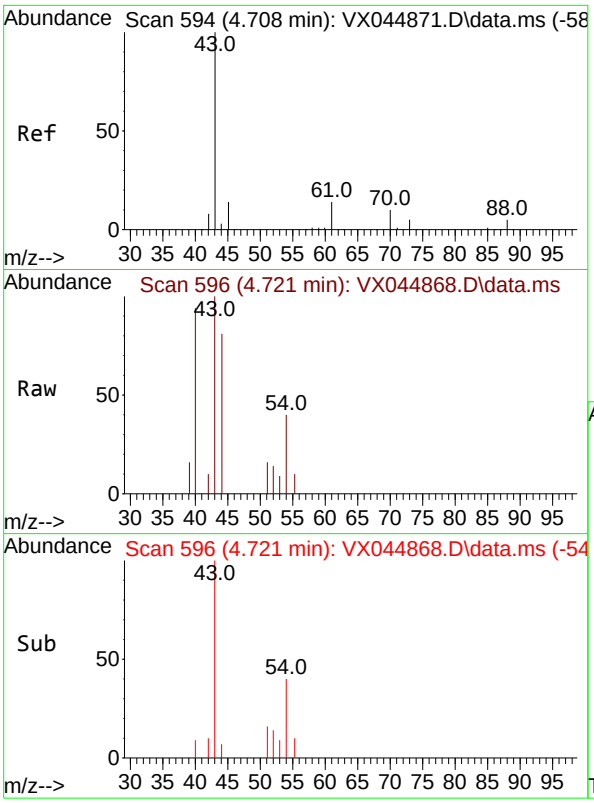


#36
1,1-Dichloropropene
Concen: 1.006 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 2399

Ion	Ratio	Lower	Upper
75	100		
110	32.1	17.2	51.6
77	26.3	24.6	37.0



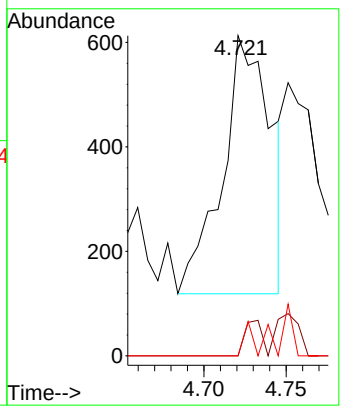


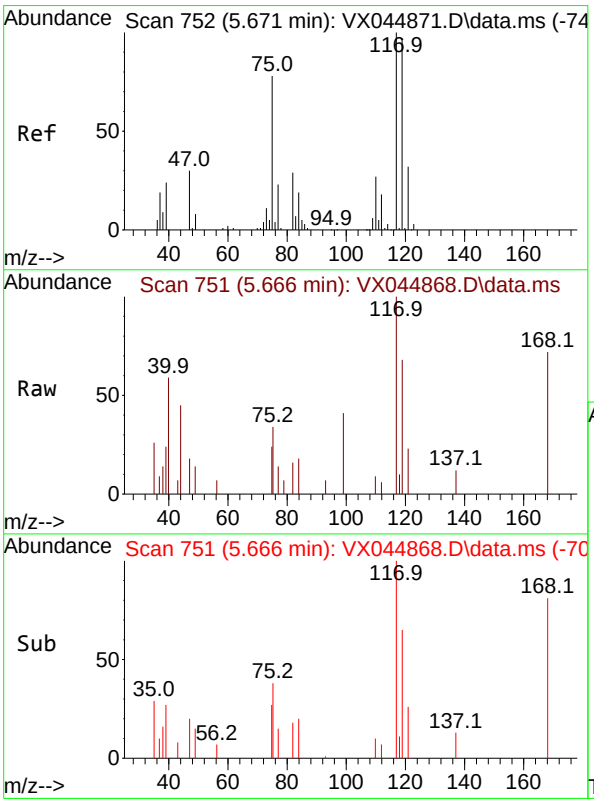
#37
Ethyl Acetate
Concen: 0.379 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1004

Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	2.4	8.2	12.2#

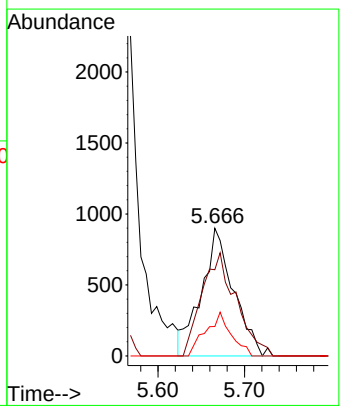


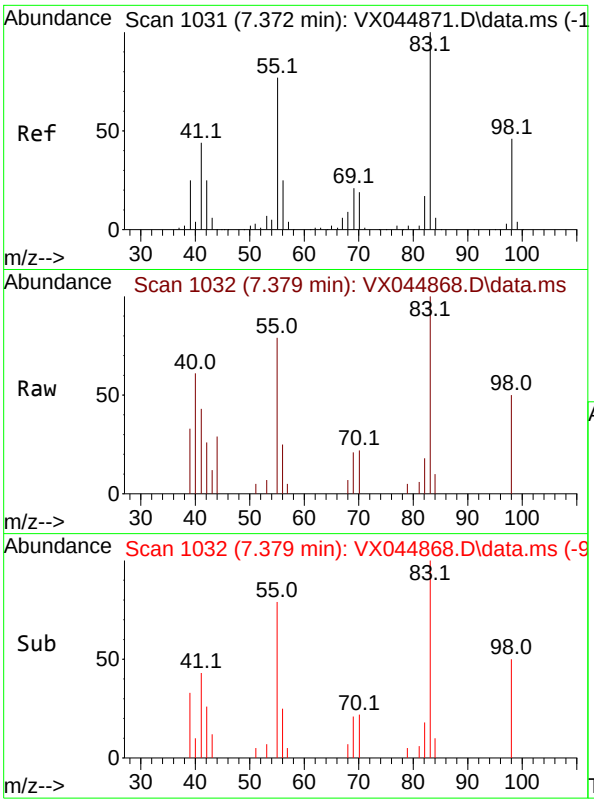


#38
Carbon Tetrachloride
Concen: 0.994 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 2322

Ion	Ratio	Lower	Upper
117	100		
119	67.5	77.5	116.3#
121	23.0	25.6	38.4#



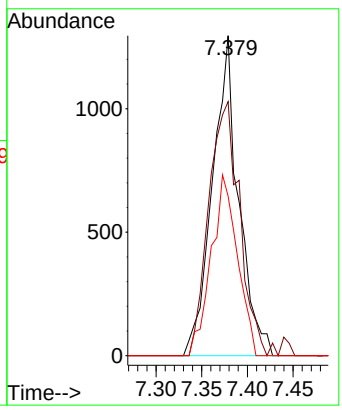


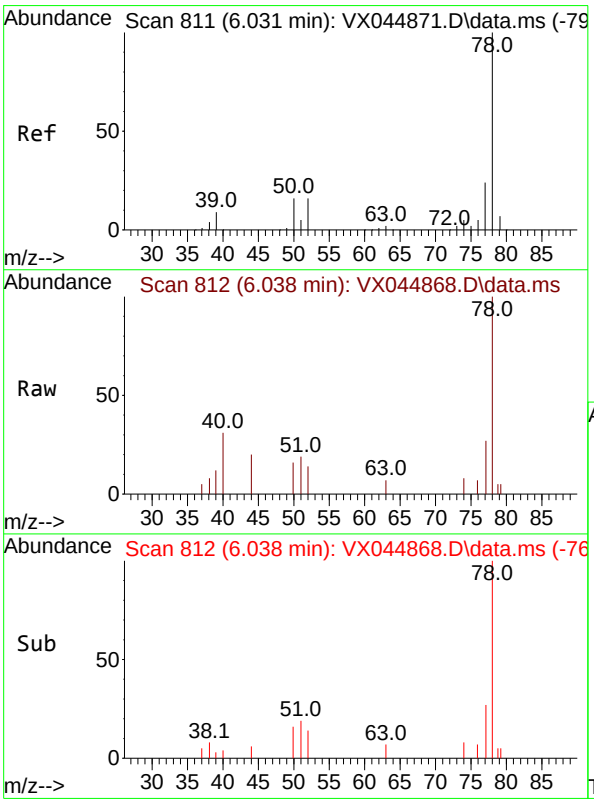
#39
Methylcyclohexane
Concen: 0.840 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2589

Ion	Ratio	Lower	Upper
83	100		
55	79.4	61.3	91.9
98	49.8	37.0	55.6

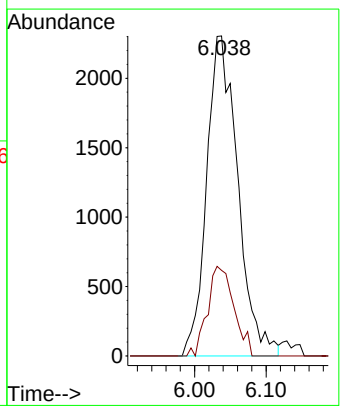


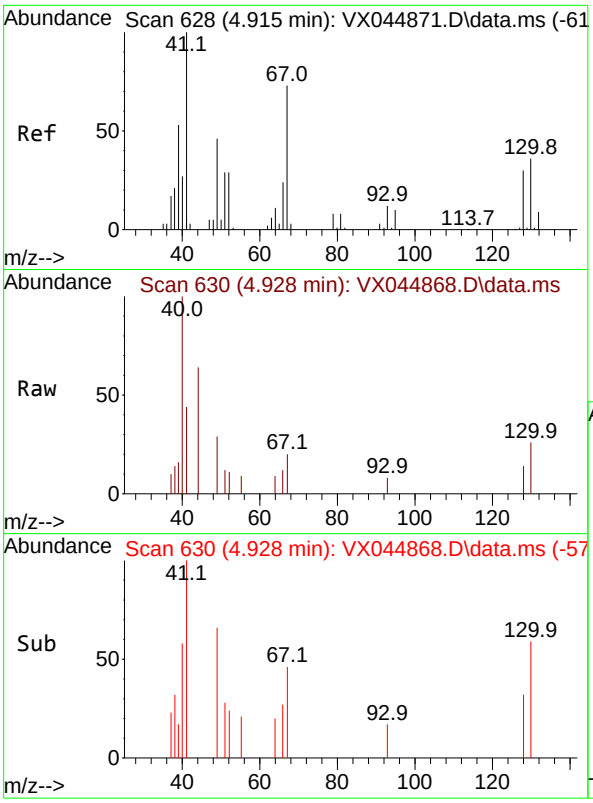


#40
Benzene
Concen: 0.935 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 78 Resp: 6963

Ion	Ratio	Lower	Upper
78	100		
77	26.8	19.0	28.6



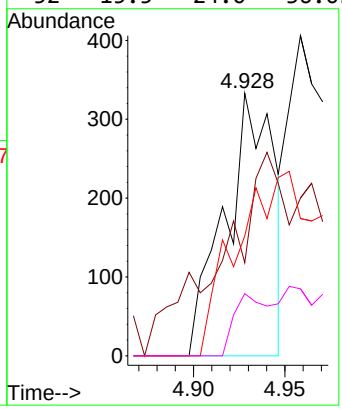


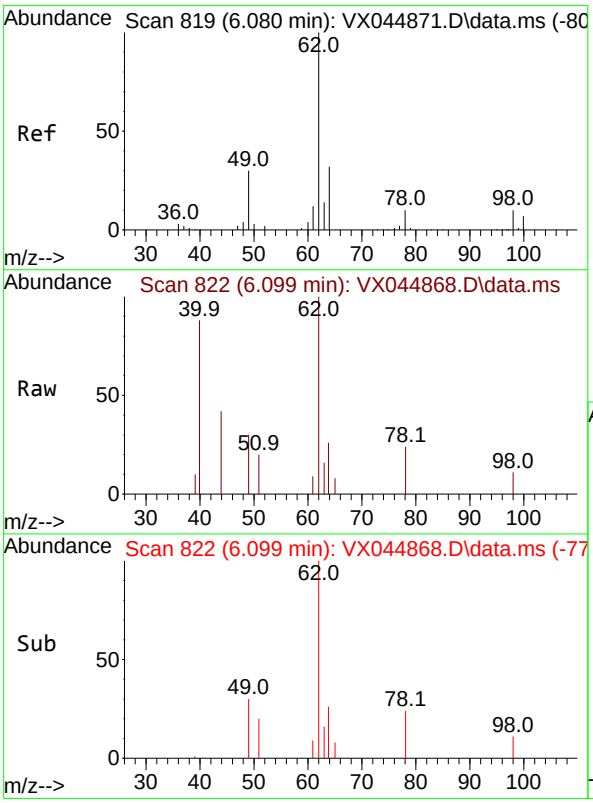
#41
Methacrylonitrile
Concen: 0.438 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 621

Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.1	64.7#
67	0.0	57.0	85.6#
52	15.5	24.0	36.0#

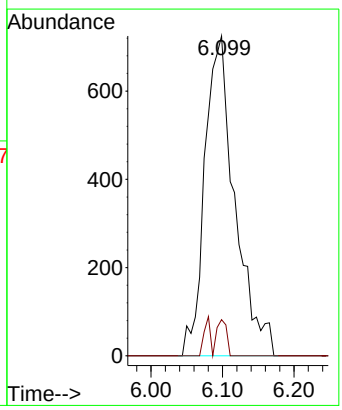


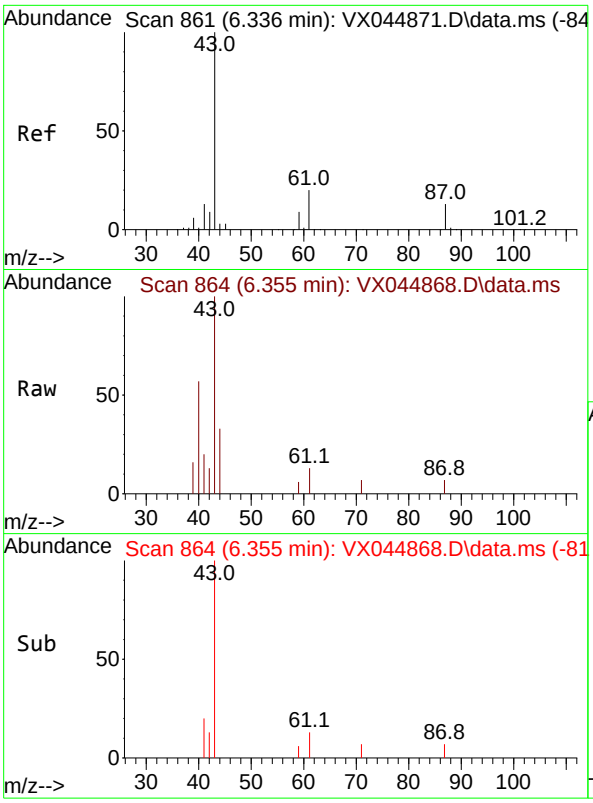


#42
1,2-Dichloroethane
Concen: 0.894 ug/l
RT: 6.099 min Scan# 822
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 62 Resp: 2120

Ion	Ratio	Lower	Upper
62	100		
98	3.7	0.0	19.4



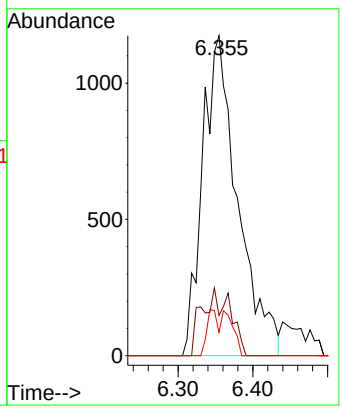


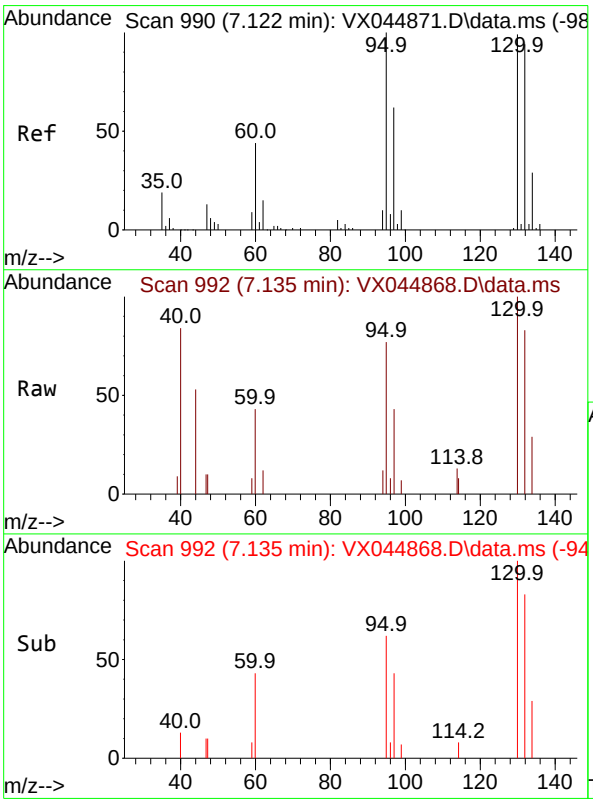
#43
Isopropyl Acetate
Concen: 0.897 ug/l
RT: 6.355 min Scan# 8
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3839

Ion	Ratio	Lower	Upper
43	100		
61	16.9	15.8	23.8
87	4.6	10.0	15.0#

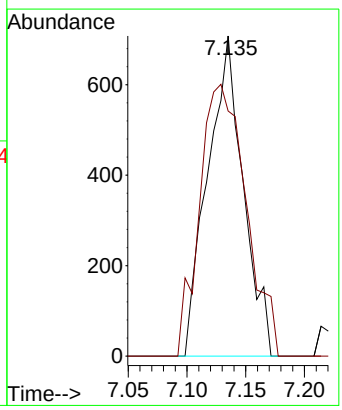


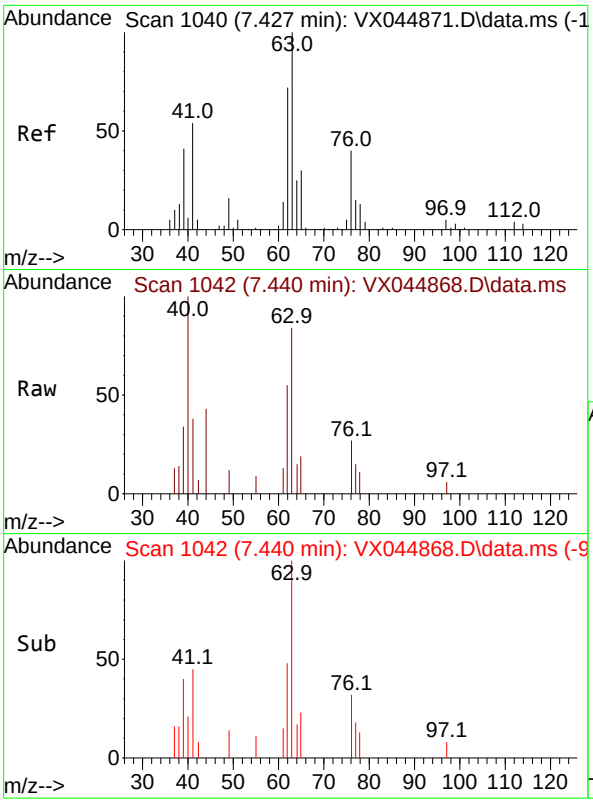


#44
Trichloroethene
Concen: 0.874 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:130 Resp: 1487

Ion	Ratio	Lower	Upper
130	100		
95	76.6	0.0	202.4



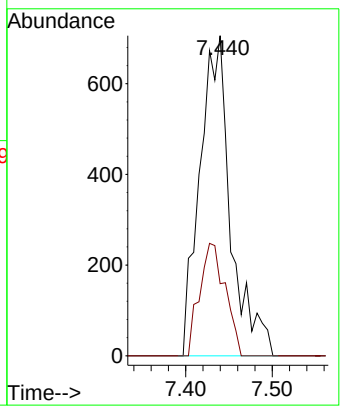


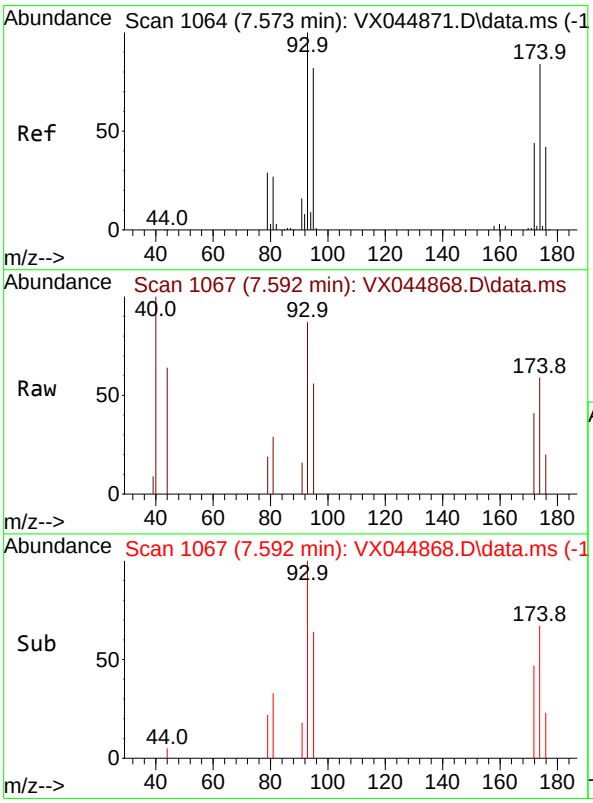
#45
1,2-Dichloropropane
Concen: 0.943 ug/l
RT: 7.440 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 1746

Ion	Ratio	Lower	Upper
63	100		
65	22.5	24.2	36.4#

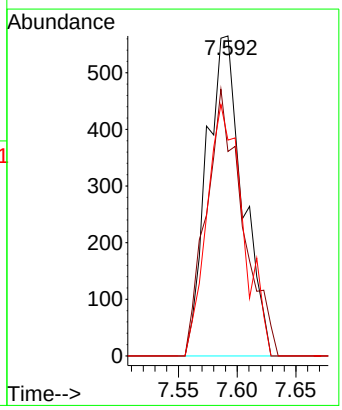


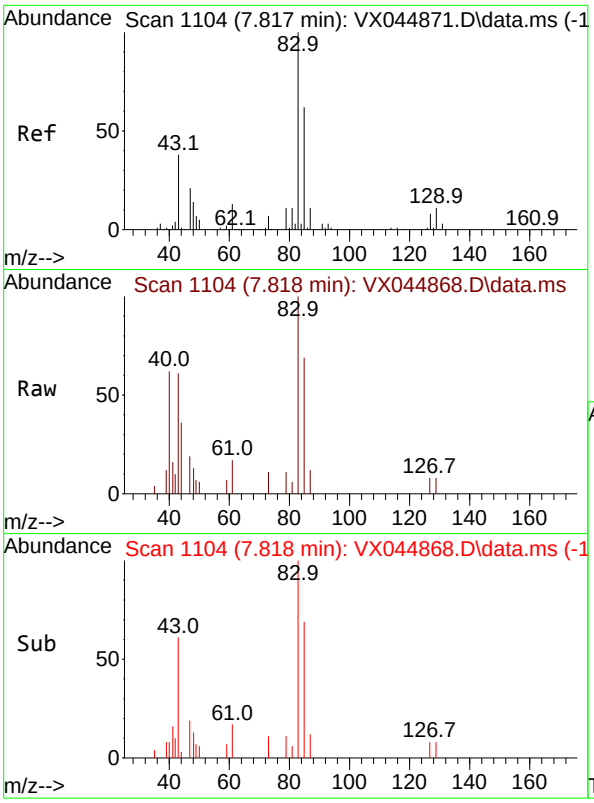


#46
Dibromomethane
Concen: 0.936 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 93 Resp: 1202

Ion	Ratio	Lower	Upper
93	100		
95	84.3	66.2	99.4
174	79.3	69.9	104.9



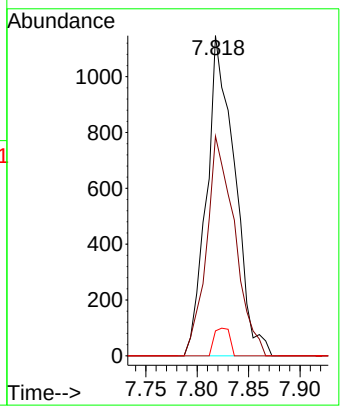


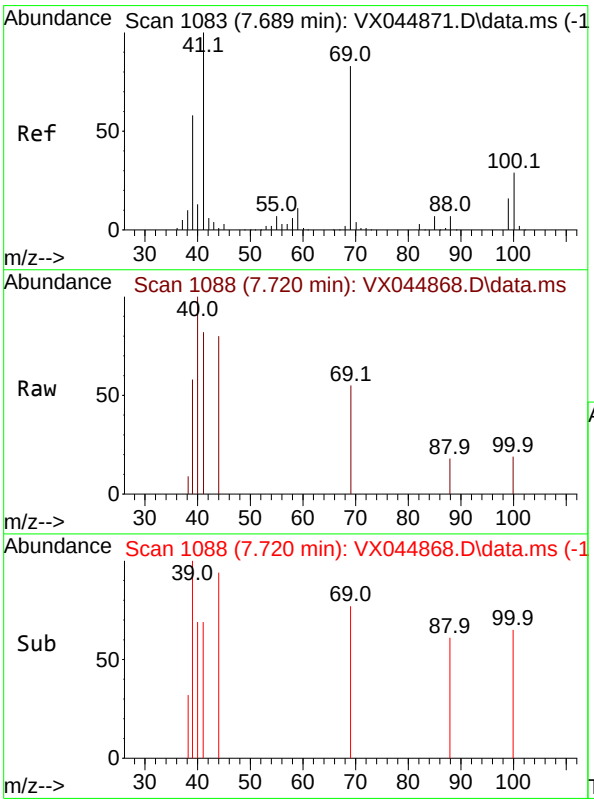
#47
Bromodichloromethane
Concen: 0.875 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2176

Ion	Ratio	Lower	Upper
83	100		
85	68.6	50.0	75.0
127	7.8	6.4	9.6

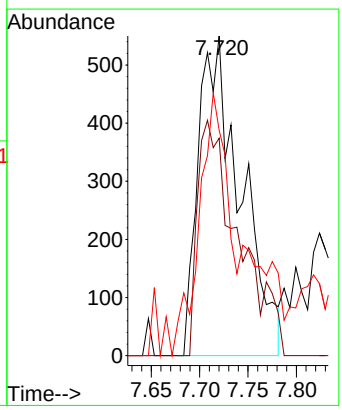


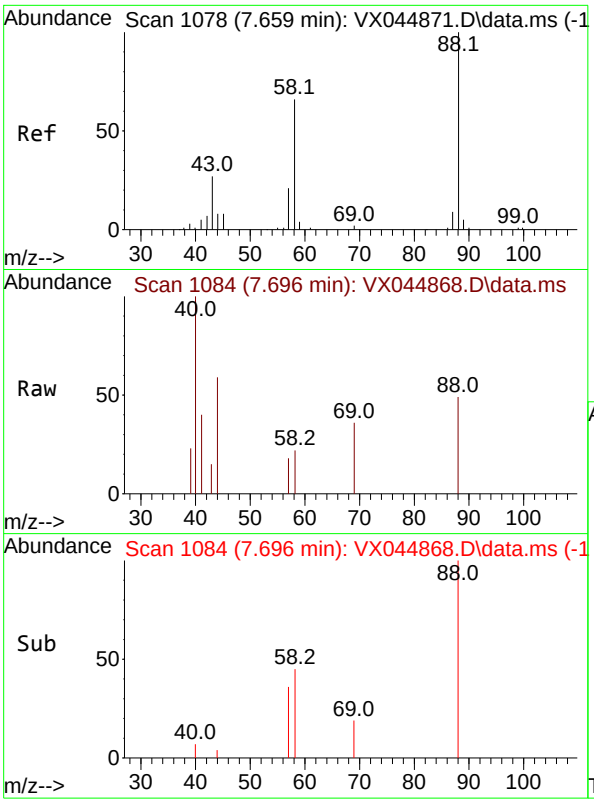


#48
Methyl methacrylate
Concen: 0.830 ug/l
RT: 7.720 min Scan# 1088
Delta R.T. 0.031 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 41 Resp: 1675

Ion	Ratio	Lower	Upper
41	100		
69	71.8	65.8	98.8
39	55.9	46.4	69.6



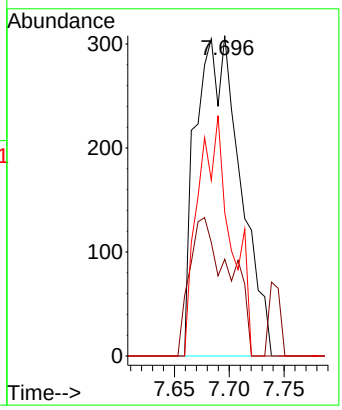


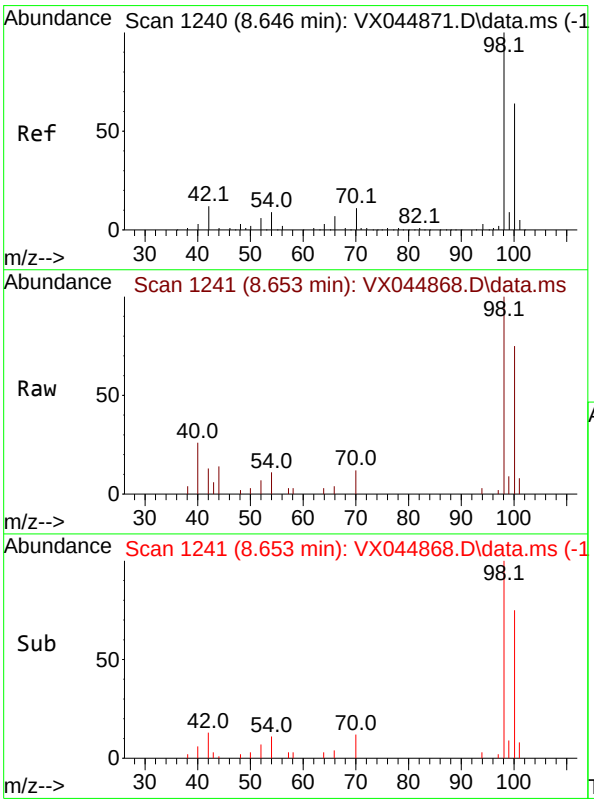
#49
1,4-Dioxane
Concen: 20.015 ug/l
RT: 7.696 min Scan# 1
Delta R.T. 0.037 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 867

Ion	Ratio	Lower	Upper
88	100		
43	38.9	26.6	39.8
58	55.5	55.9	83.9#

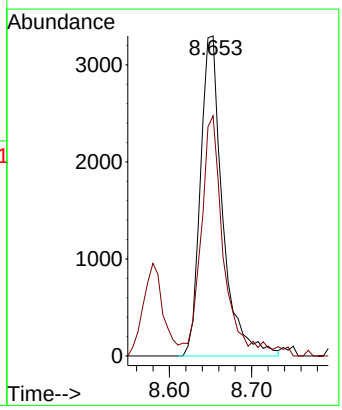


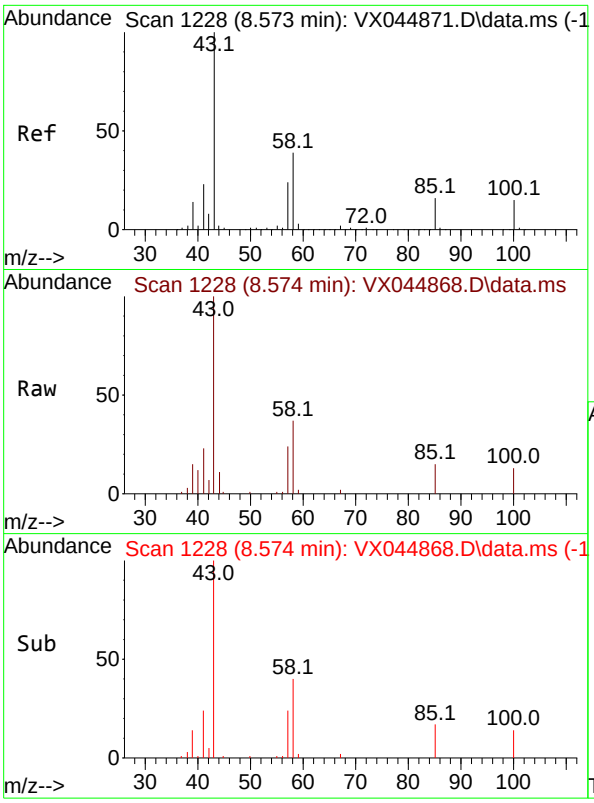


#50
Toluene-d8
Concen: 0.991 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 98 Resp: 6195

Ion	Ratio	Lower	Upper
98	100		
100	70.7	52.7	79.1



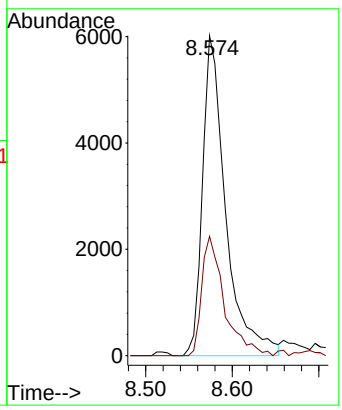


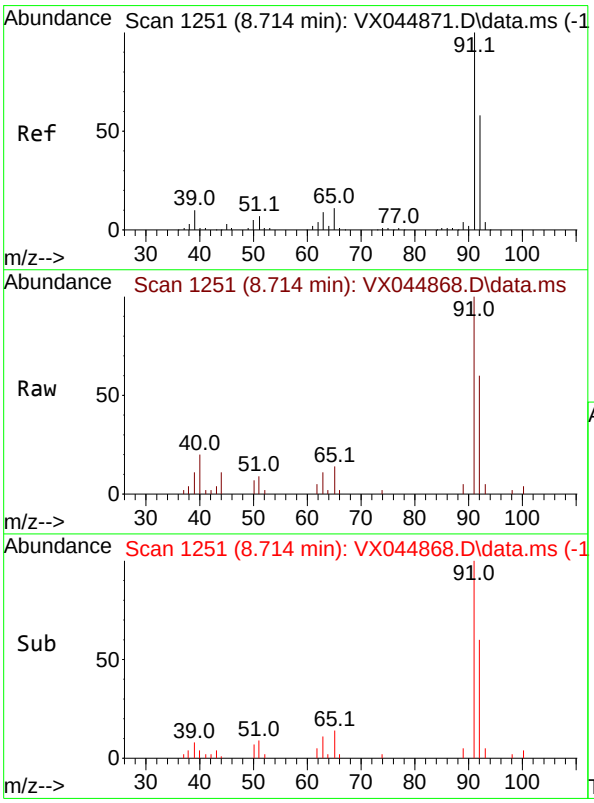
#51
4-Methyl-2-Pentanone
Concen: 4.290 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 11169

Ion	Ratio	Lower	Upper
43	100		
58	36.3	30.8	46.2

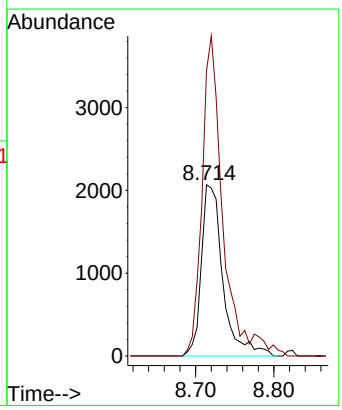


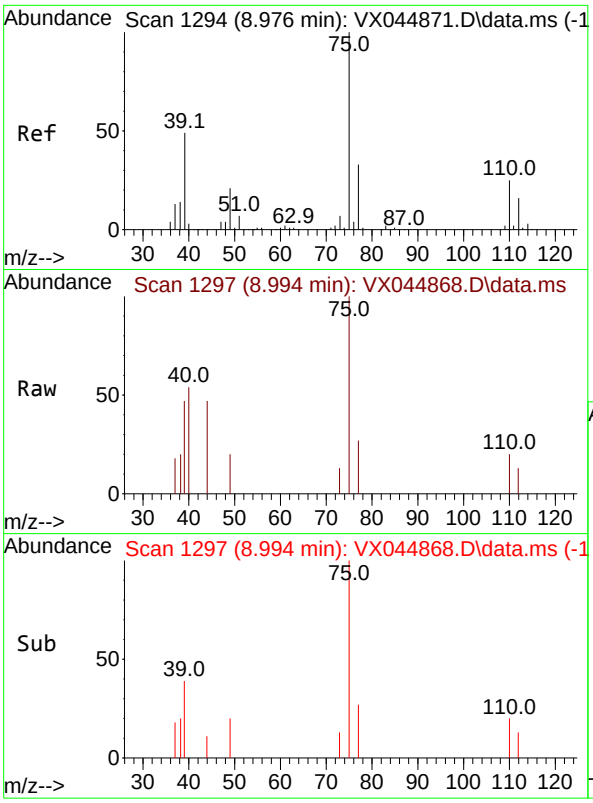


#52
Toluene
Concen: 0.889 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 92 Resp: 3943

Ion	Ratio	Lower	Upper
92	100		
91	171.6	137.4	206.2



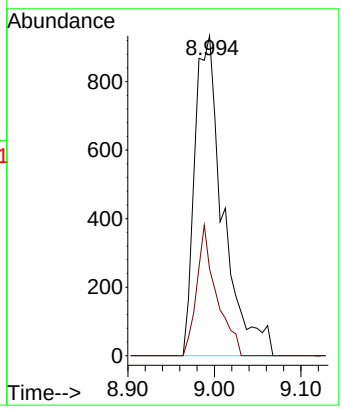


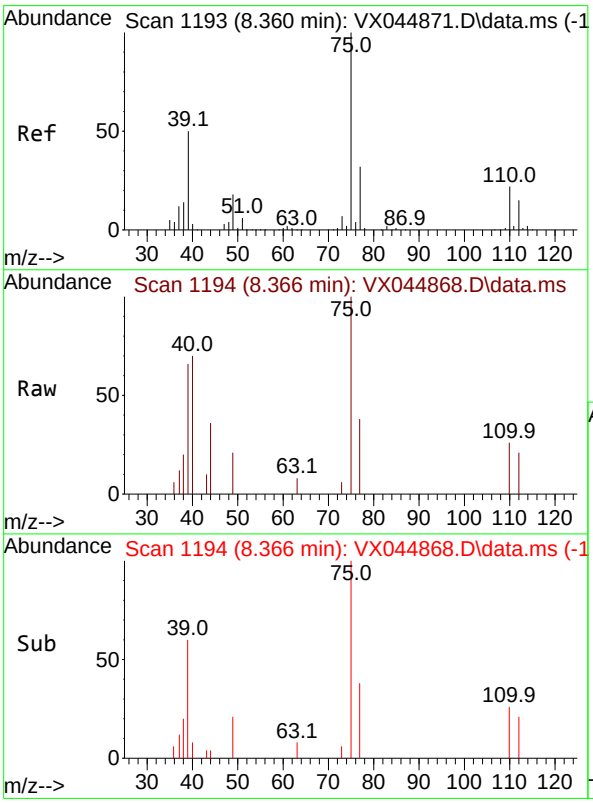
#53
t-1,3-Dichloropropene
Concen: 0.842 ug/l
RT: 8.994 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 2119

Ion	Ratio	Lower	Upper
75	100		
77	27.1	26.0	39.0

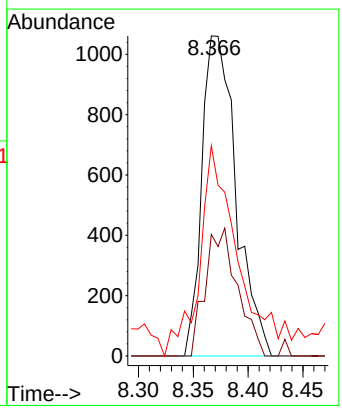


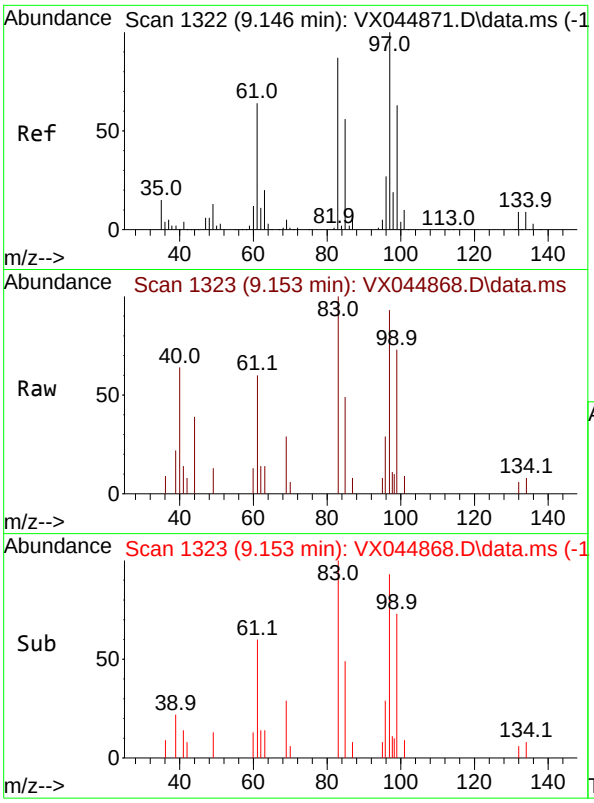


#54
cis-1,3-Dichloropropene
Concen: 0.820 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 2300

Ion	Ratio	Lower	Upper
75	100		
77	38.0	25.3	37.9#
39	60.3	40.0	60.0#



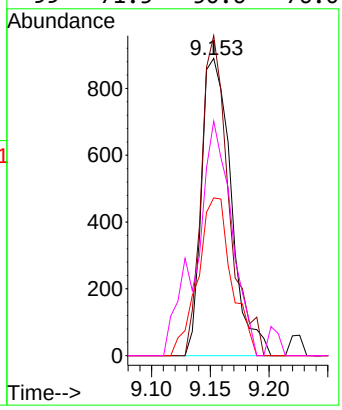


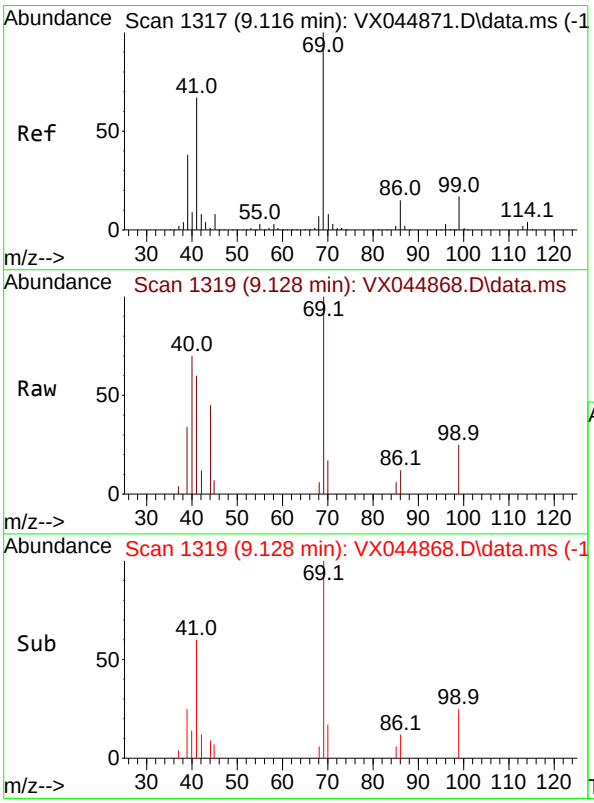
#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 1558

Ion	Ratio	Lower	Upper
97	100		
83	107.6	69.8	104.6#
85	53.0	44.8	67.2
99	71.5	50.6	76.0

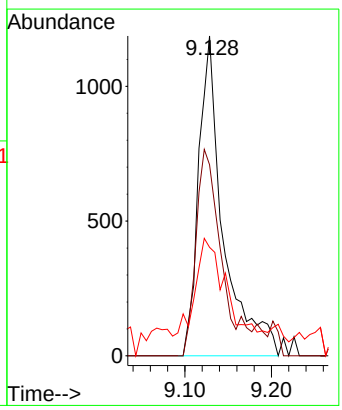


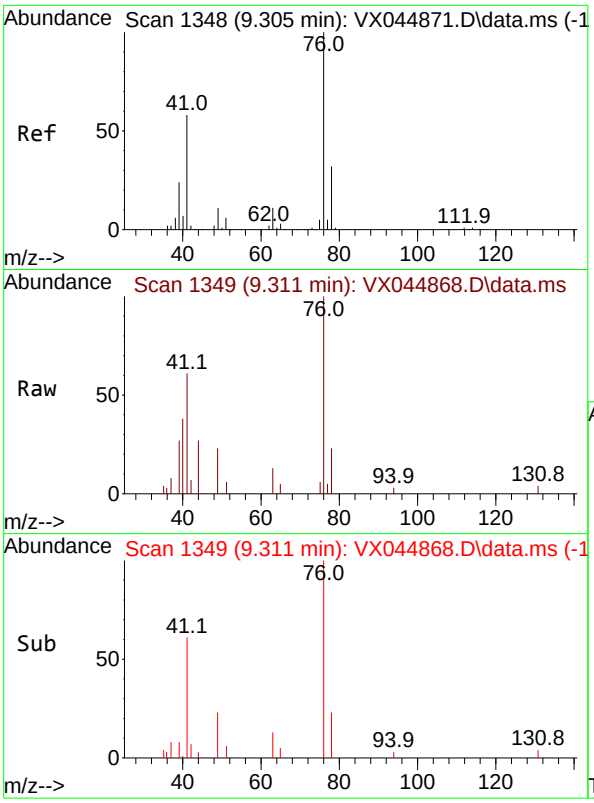


#56
Ethyl methacrylate
Concen: 0.852 ug/l
RT: 9.128 min Scan# 1319
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 69 Resp: 2346

Ion	Ratio	Lower	Upper
69	100		
41	61.6	55.2	82.8
39	56.2	30.8	46.2#



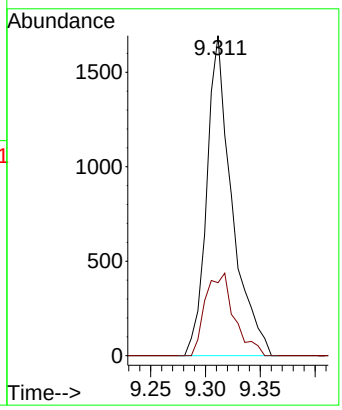


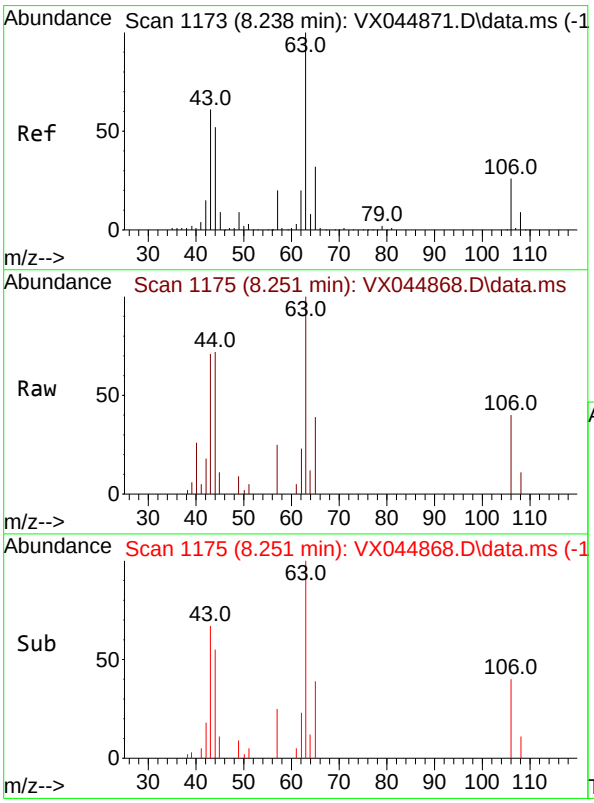
#57
1,3-Dichloropropane
Concen: 0.905 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2699

Ion	Ratio	Lower	Upper
76	100		
78	29.6	25.8	38.8

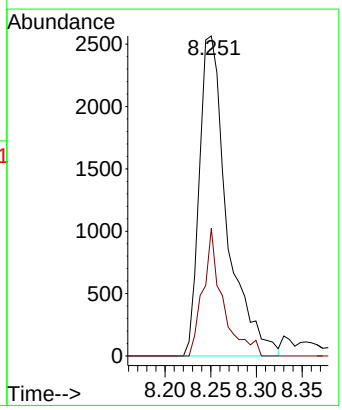


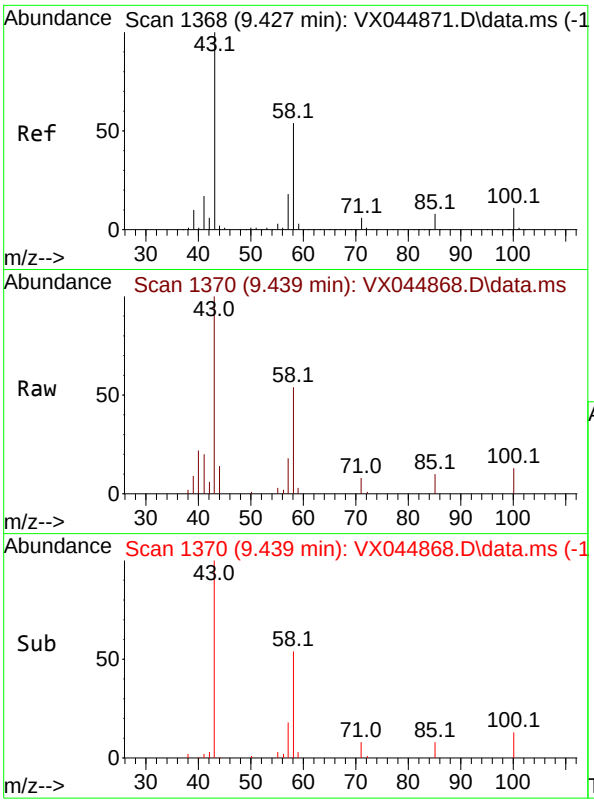


#58
2-Chloroethyl Vinyl ether
Concen: 3.996 ug/l
RT: 8.251 min Scan# 1175
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 63 Resp: 5401

Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.3	31.9



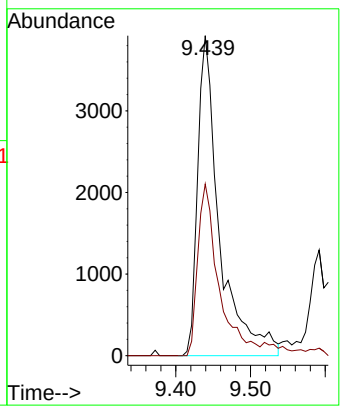


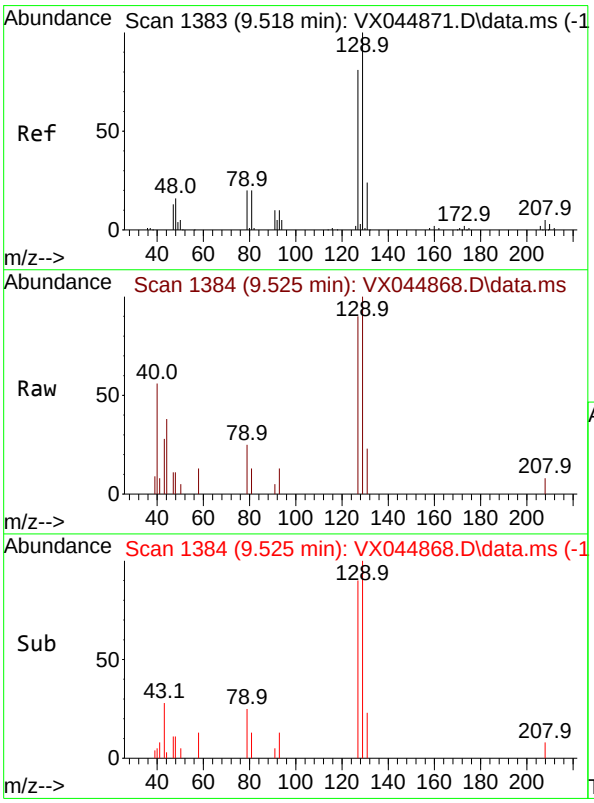
#59
2-Hexanone
Concen: 4.240 ug/l
RT: 9.439 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 7952

Ion	Ratio	Lower	Upper
43	100		
58	51.3	27.5	82.4

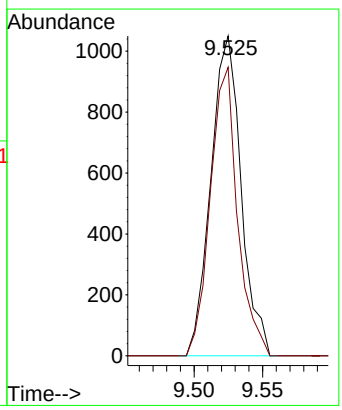


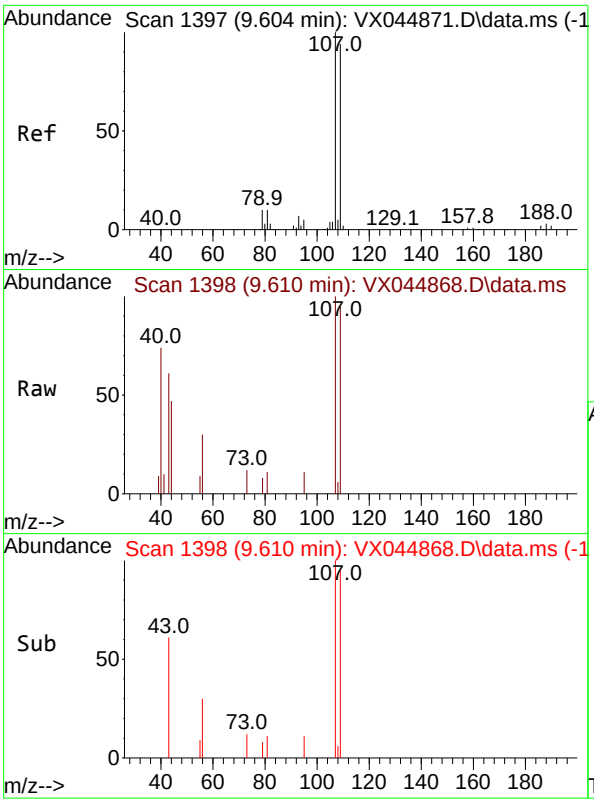


#60
Dibromochloromethane
Concen: 0.885 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:129 Resp: 1613

Ion	Ratio	Lower	Upper
129	100		
127	81.3	39.1	117.3



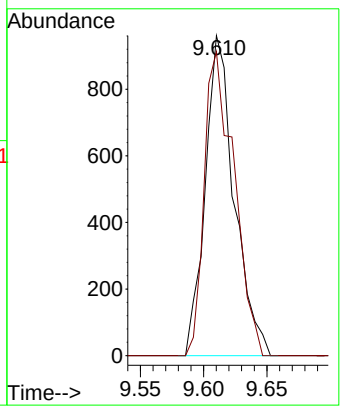


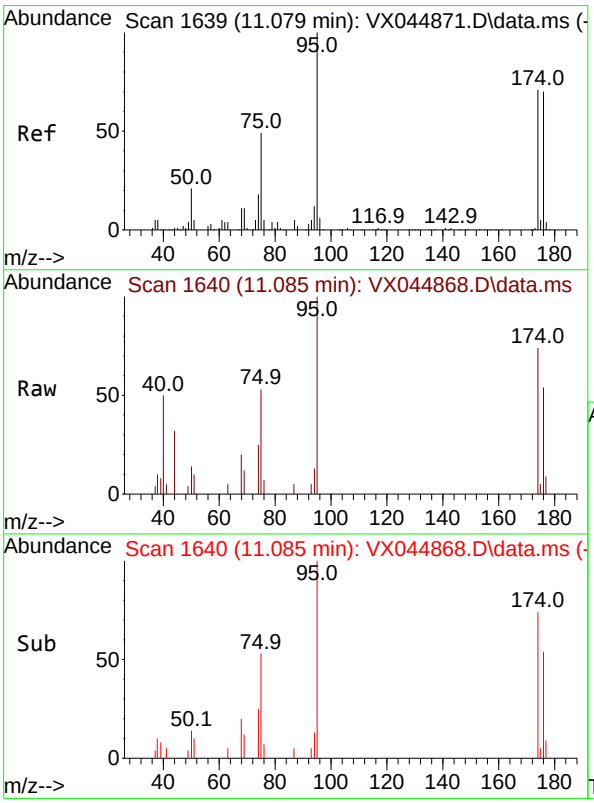
#61
1,2-Dibromoethane
Concen: 0.888 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 1534

Ion	Ratio	Lower	Upper
107	100		
109	97.4	75.9	113.9

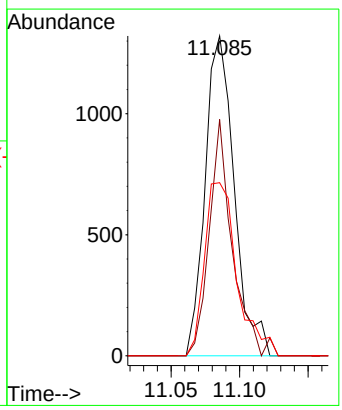


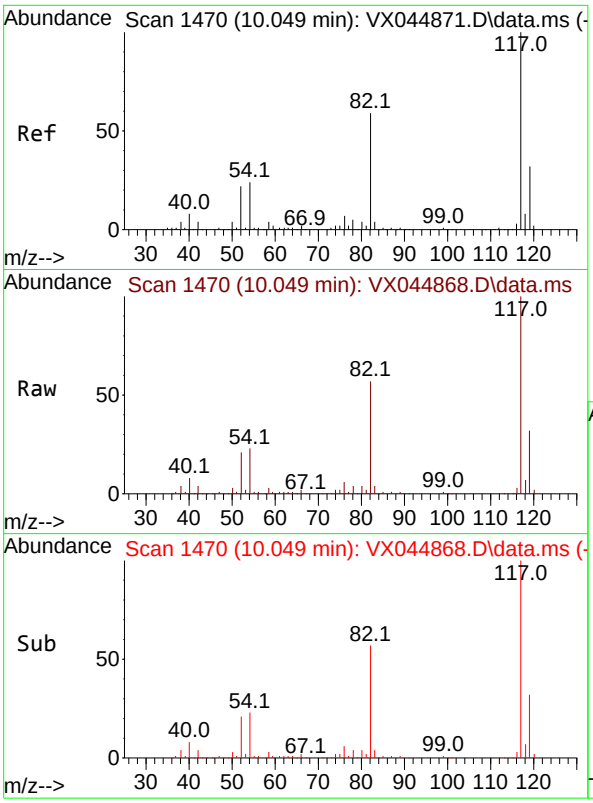


#62
4-Bromofluorobenzene
Concen: 0.926 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 95 Resp: 1950

Ion	Ratio	Lower	Upper
95	100		
174	58.8	0.0	142.6
176	60.5	0.0	141.6



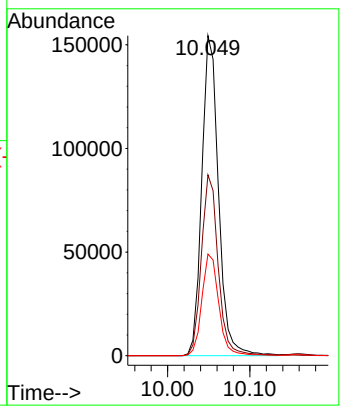


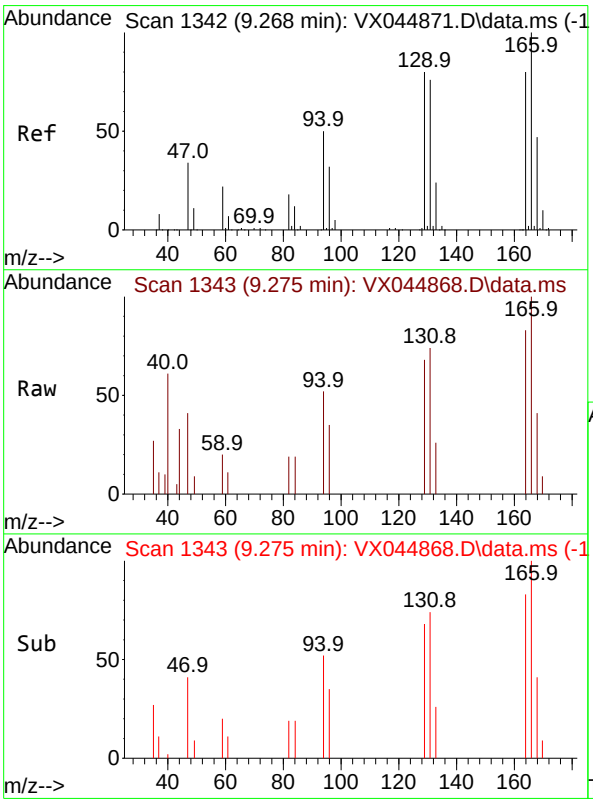
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 218570

Ion	Ratio	Lower	Upper
117	100		
82	56.5	47.5	71.3
119	31.8	25.4	38.0

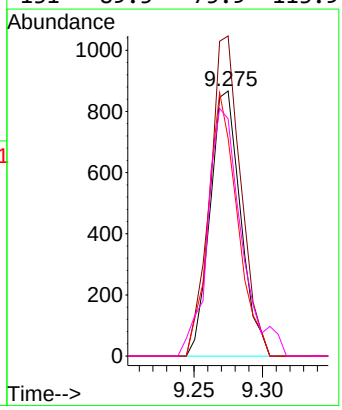


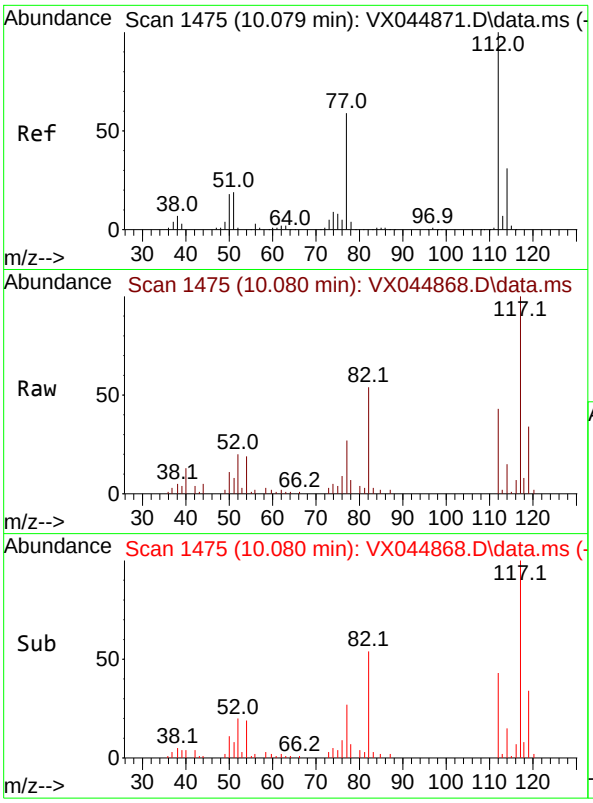


#64
Tetrachloroethene
Concen: 0.971 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:164 Resp: 1339

Ion	Ratio	Lower	Upper
164	100		
166	120.8	100.4	150.6
129	82.1	79.9	119.9
131	89.5	75.9	113.9



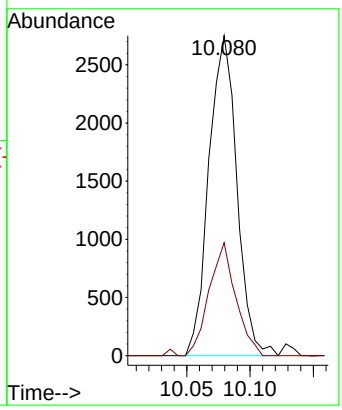


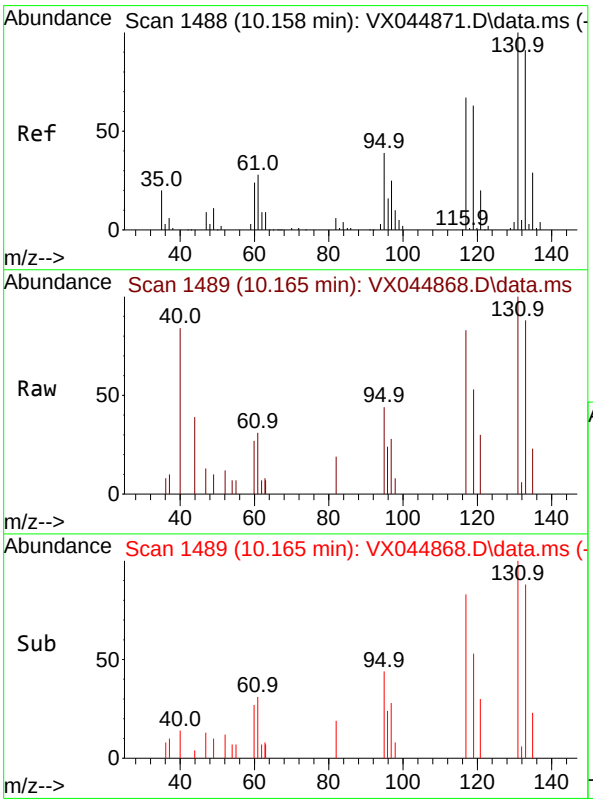
#65
Chlorobenzene
Concen: 0.902 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 4234

Ion	Ratio	Lower	Upper
112	100		
114	35.3	25.0	37.6

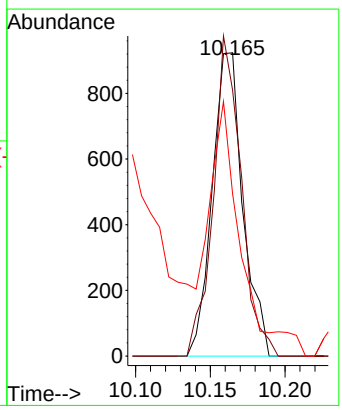


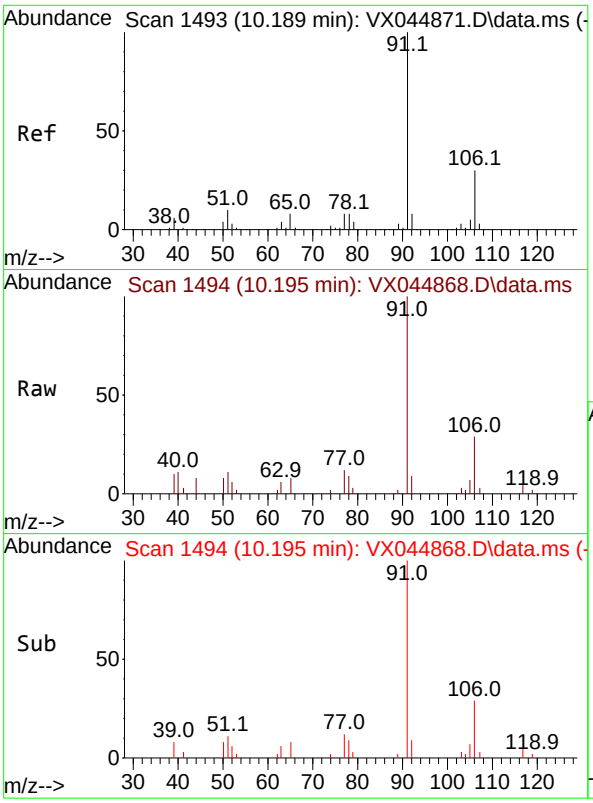


#66
1,1,1,2-Tetrachloroethane
Concen: 0.874 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:131 Resp: 1320

Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.1	141.3
119	0.0	33.6	100.6#



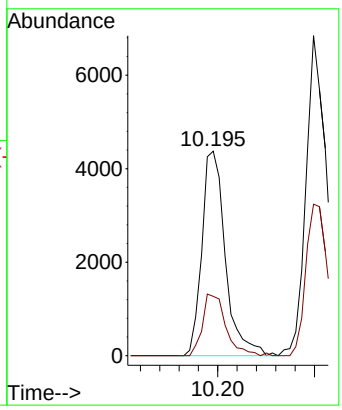


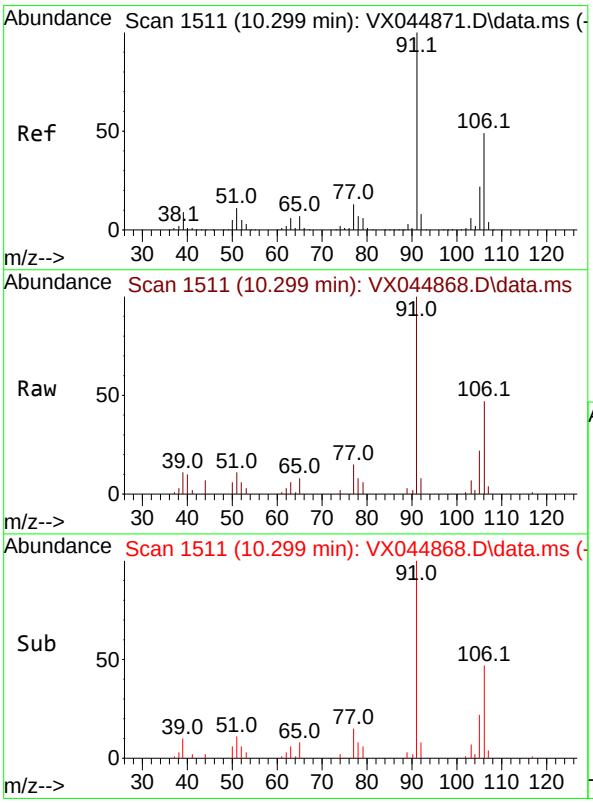
#67
Ethyl Benzene
Concen: 0.892 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 7388

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.9	35.9

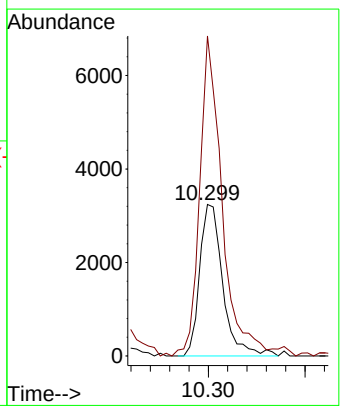


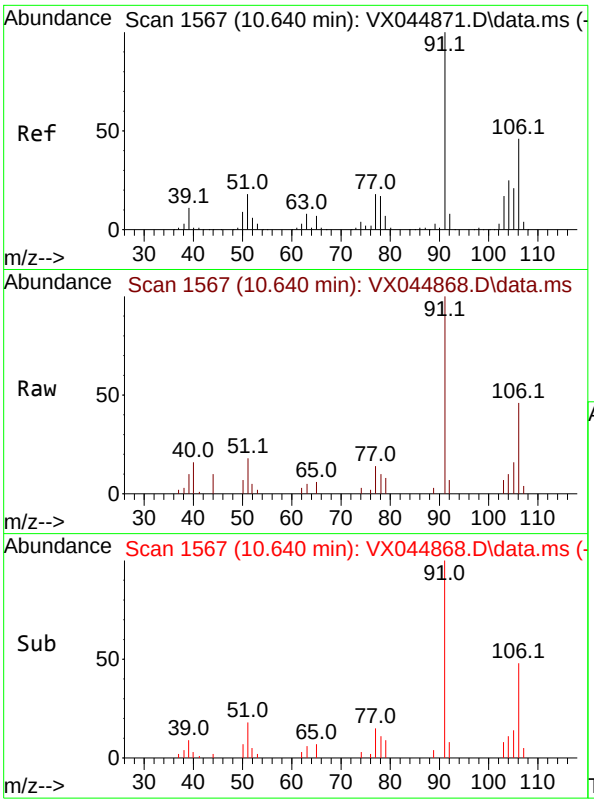


#68
m/p-Xylenes
Concen: 1.763 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:106 Resp: 5387

Ion	Ratio	Lower	Upper
106	100		
91	204.7	164.3	246.5



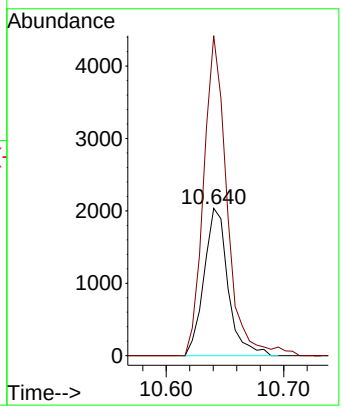


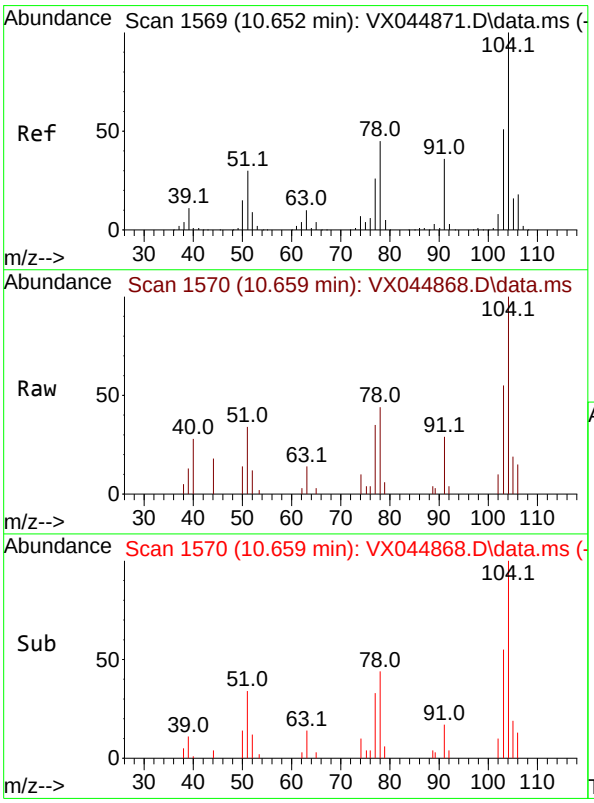
#69
o-Xylene
Concen: 0.942 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 2889

Ion	Ratio	Lower	Upper
106	100		
91	211.5	108.5	325.5

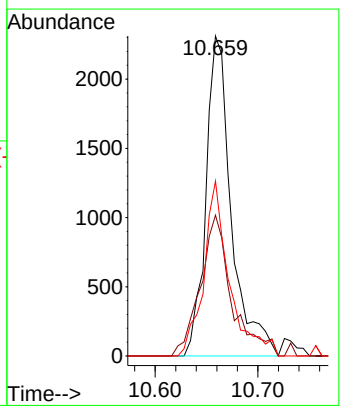


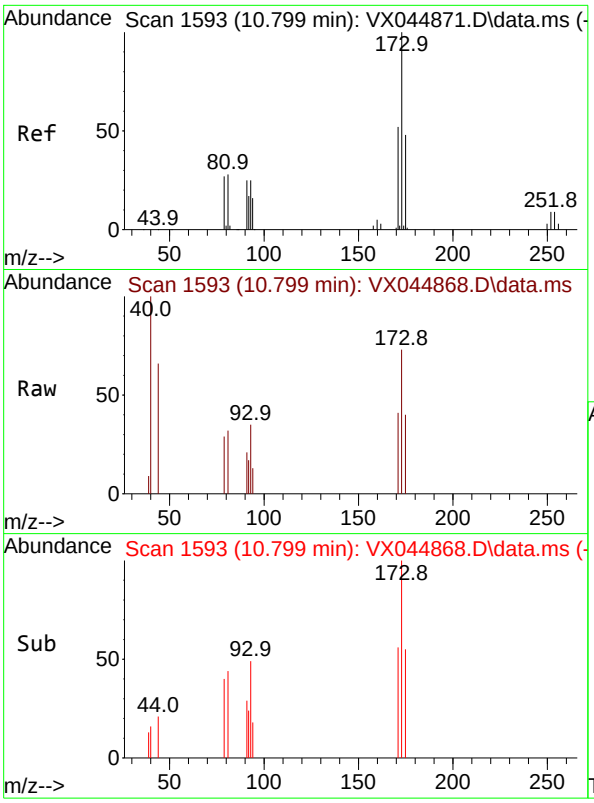


#70
Styrene
Concen: 0.804 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:104 Resp: 3974

Ion	Ratio	Lower	Upper
104	100		
78	54.1	40.5	60.7
103	55.0	43.6	65.4



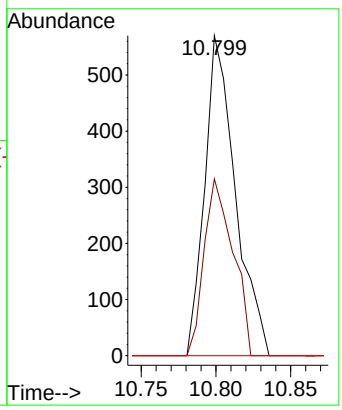


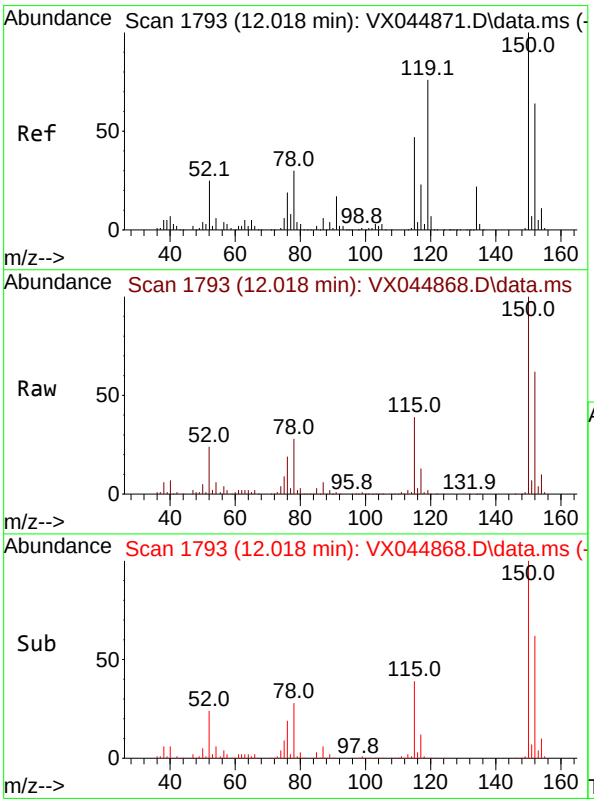
#71
Bromoform
Concen: 0.721 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 813

Ion	Ratio	Lower	Upper
173	100		
175	52.2	24.3	72.8
254	0.0	0.0	0.0

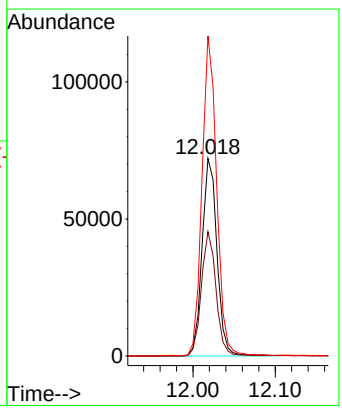


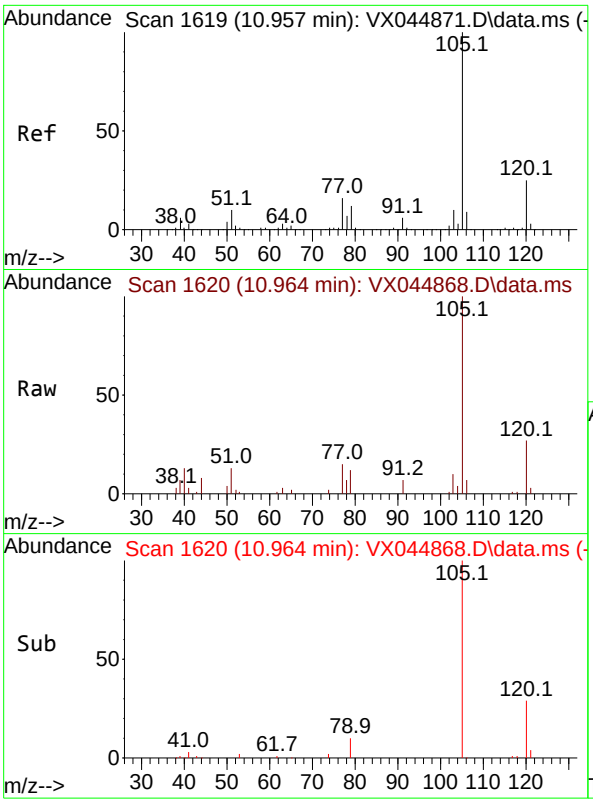


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:152 Resp: 90733

Ion	Ratio	Lower	Upper
152	100		
115	62.0	43.4	130.1
150	158.6	0.0	350.4



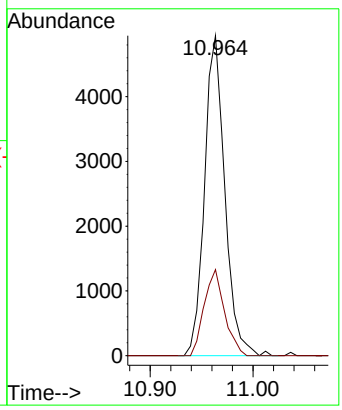


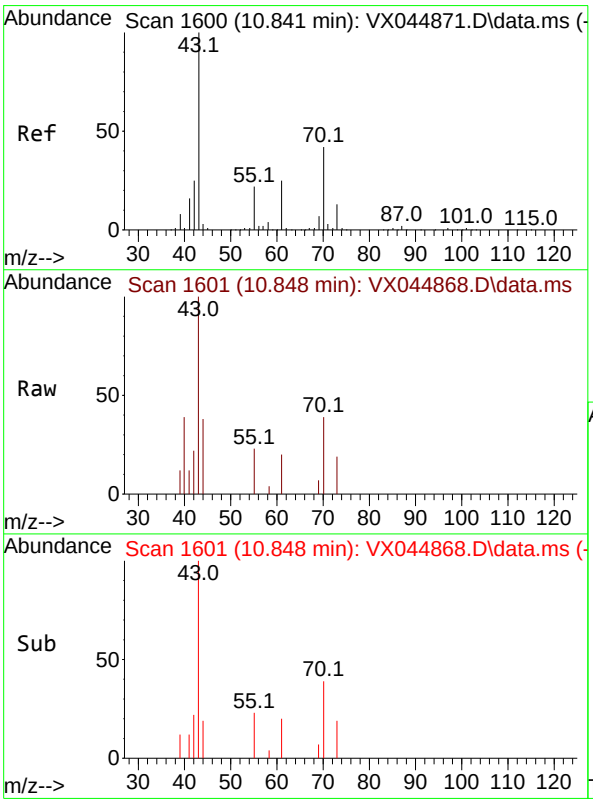
#73
Isopropylbenzene
Concen: 0.928 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6778

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.2	39.5

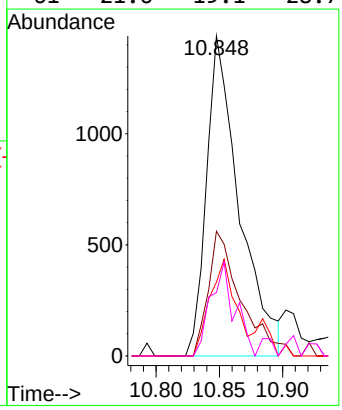


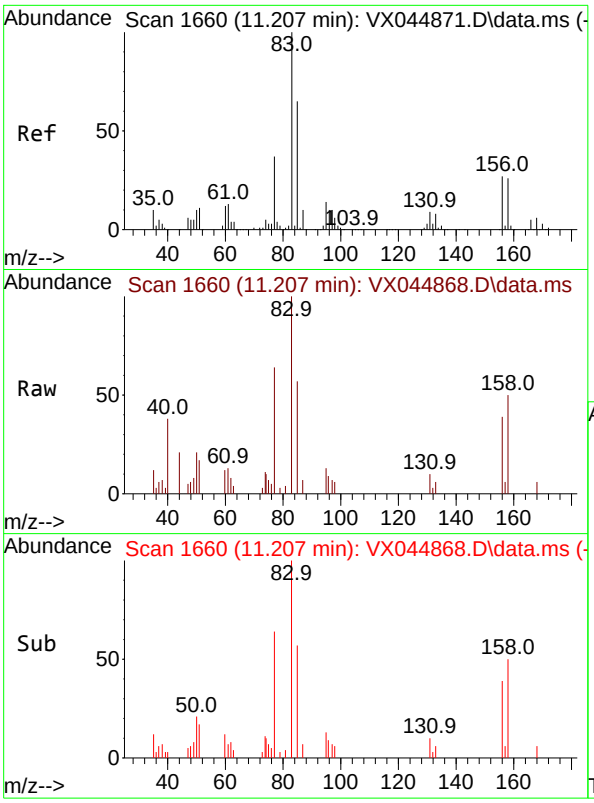


#74
N-amyl acetate
Concen: 0.785 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 43 Resp: 2596

Ion	Ratio	Lower	Upper
43	100		
70	38.8	33.7	50.5
55	25.2	18.6	27.8
61	21.6	19.1	28.7



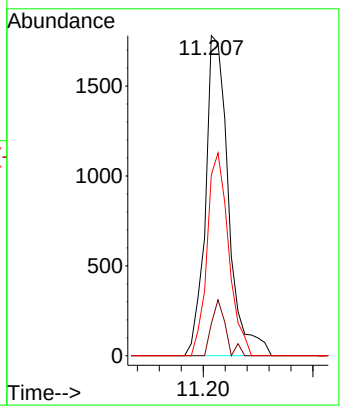


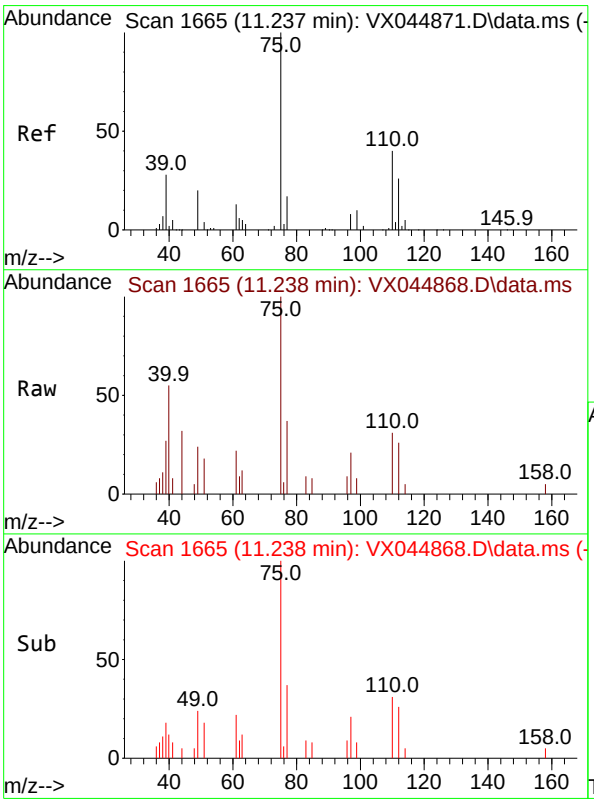
#75
1,1,2,2-Tetrachloroethane
Concen: 1.033 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2594

Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.5	13.5
85	59.2	32.3	96.8

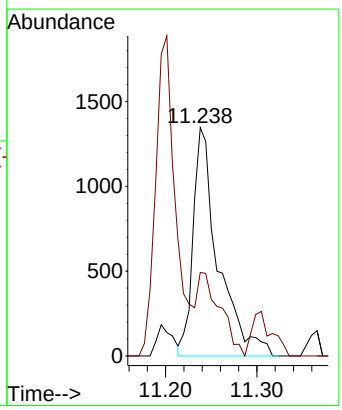


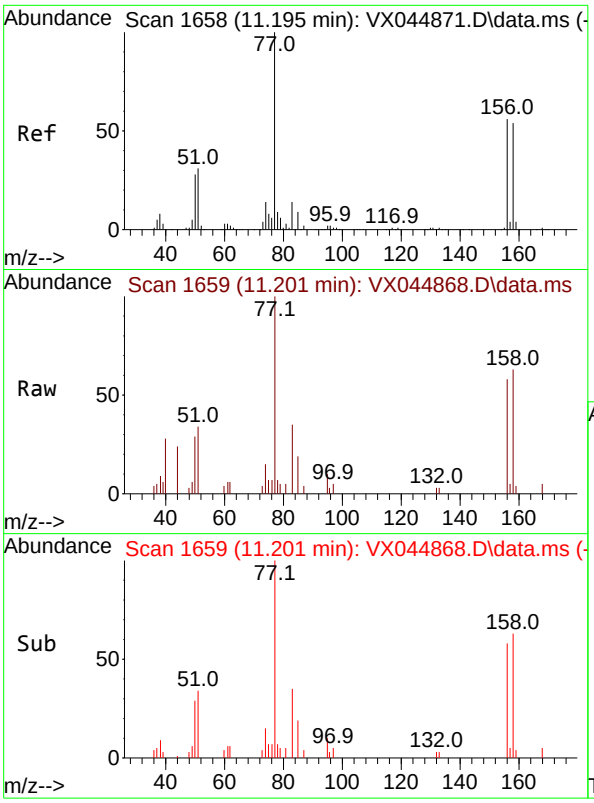


#76
1,2,3-Trichloropropane
Concen: 1.276 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 2567

Ion	Ratio	Lower	Upper
75	100		
77	32.1	21.9	65.7



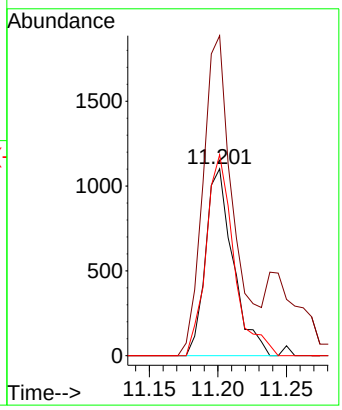


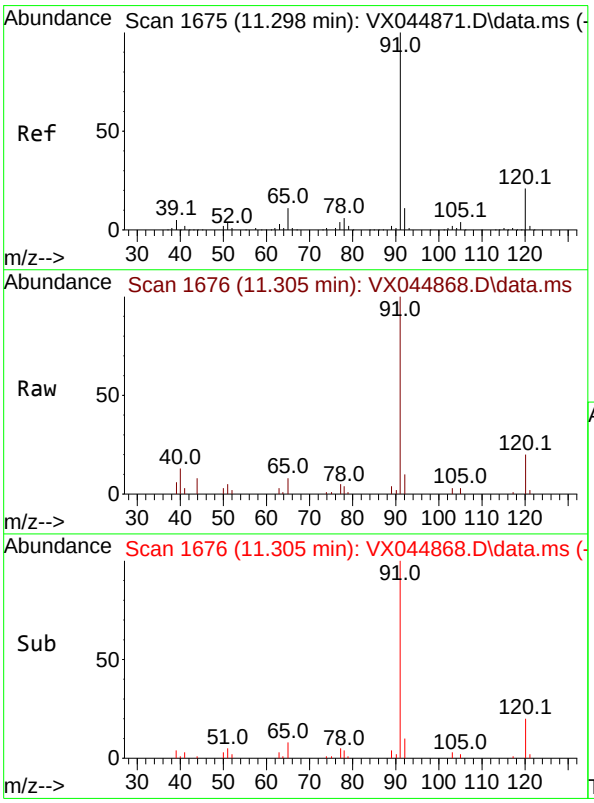
#77
Bromobenzene
Concen: 0.928 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 1537

Ion	Ratio	Lower	Upper
156	100		
77	188.7	88.4	265.3
158	108.6	48.4	145.2

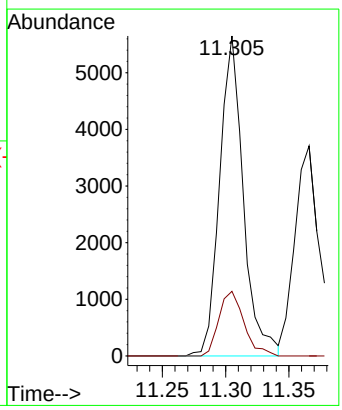


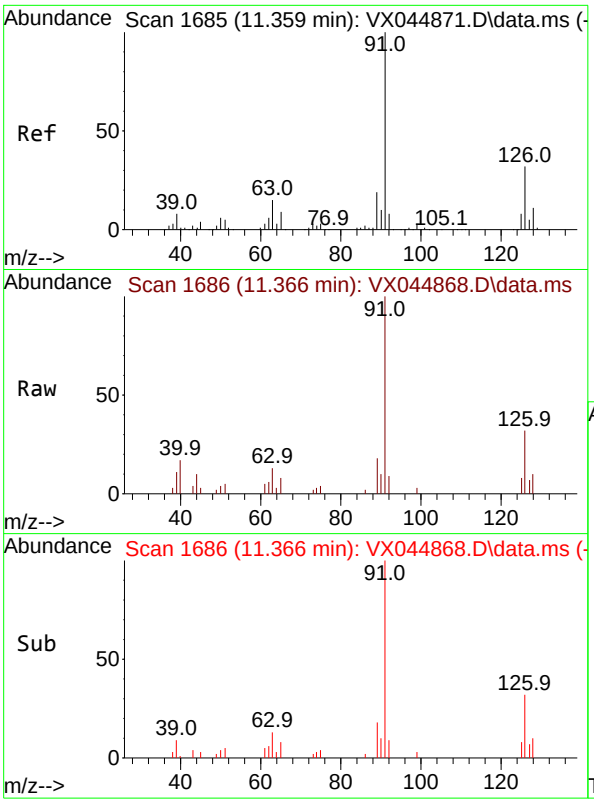


#78
n-propylbenzene
Concen: 0.871 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 7347

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.3



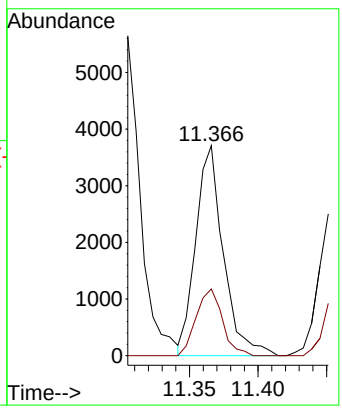


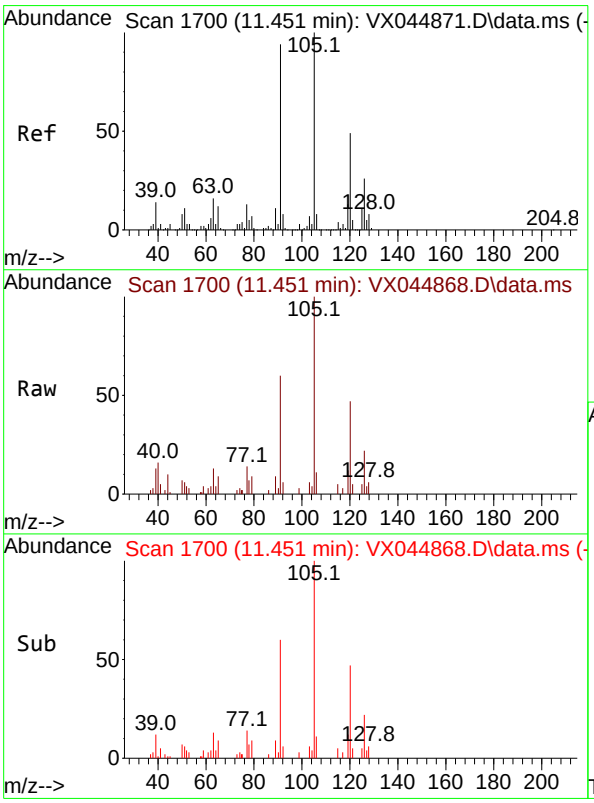
#79
2-Chlorotoluene
Concen: 1.001 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 5188

Ion	Ratio	Lower	Upper
91	100		
126	30.1	16.2	48.6

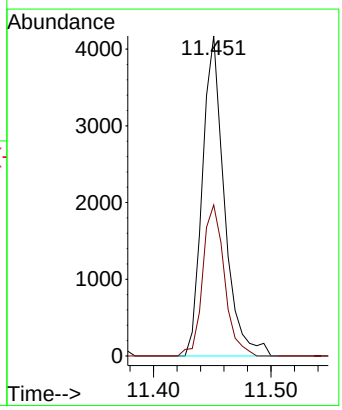


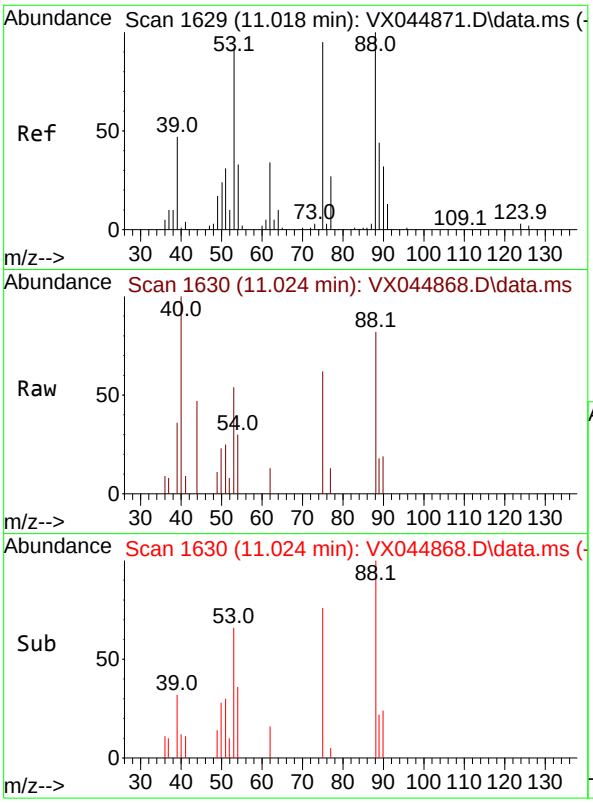


#80
1,3,5-Trimethylbenzene
Concen: 0.913 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 5410

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.0	72.0



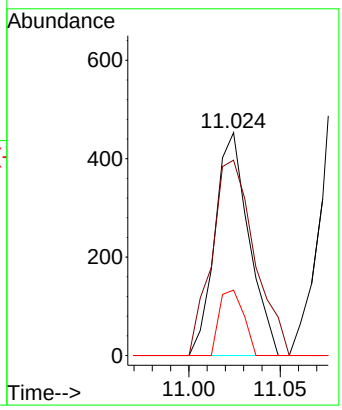


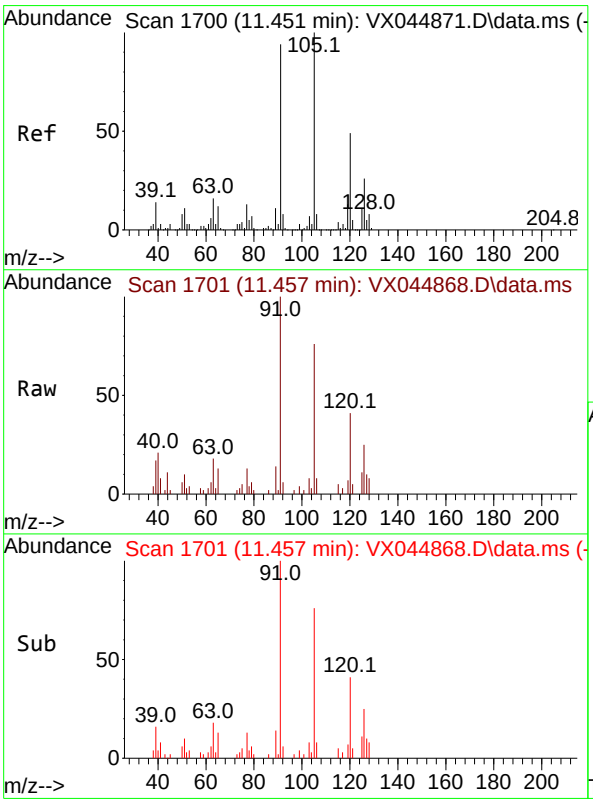
#81
trans-1,4-Dichloro-2-butene
Concen: 0.751 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 587

Ion	Ratio	Lower	Upper
75	100		
53	110.1	78.0	117.0
89	21.0	36.6	54.8#

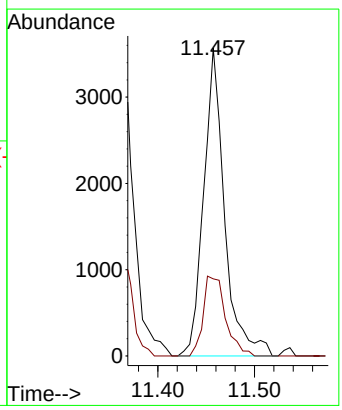


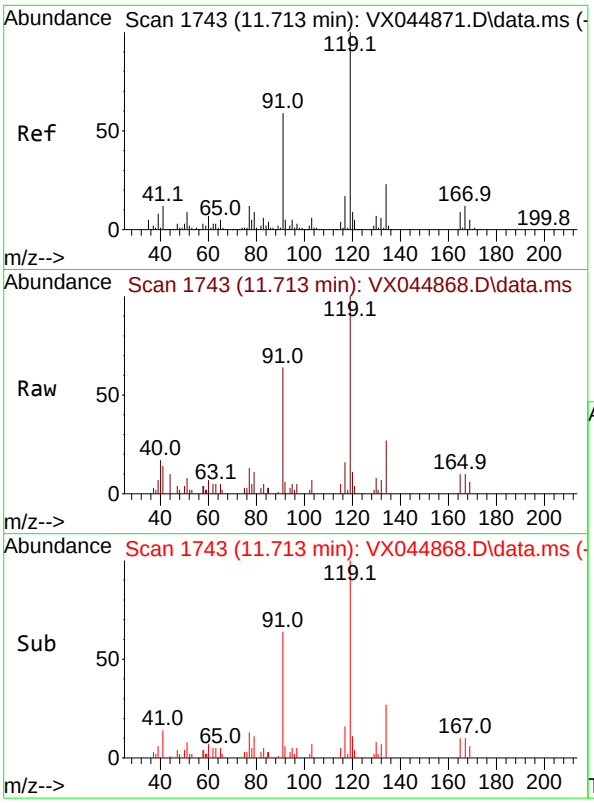


#82
4-Chlorotoluene
Concen: 0.936 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 91 Resp: 5367

Ion	Ratio	Lower	Upper
91	100		
126	27.7	14.2	42.6



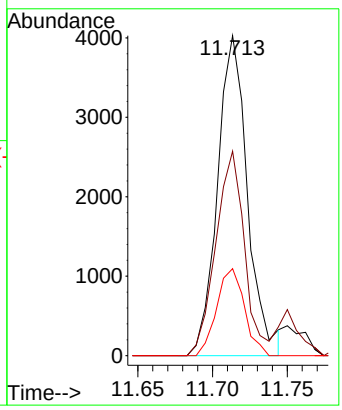


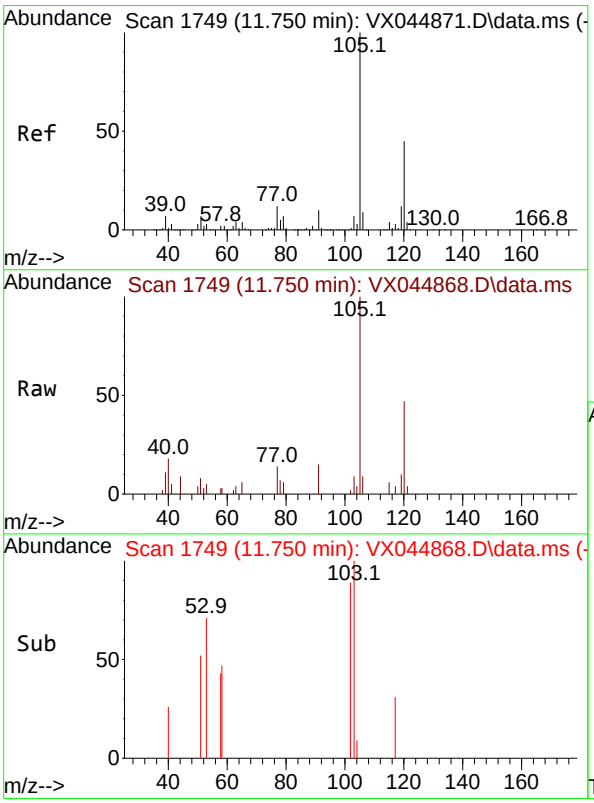
#83
tert-Butylbenzene
Concen: 0.937 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 5620

Ion	Ratio	Lower	Upper
119	100		
91	61.3	29.1	87.4
134	25.2	11.5	34.5

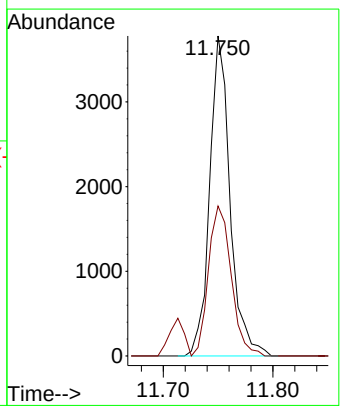


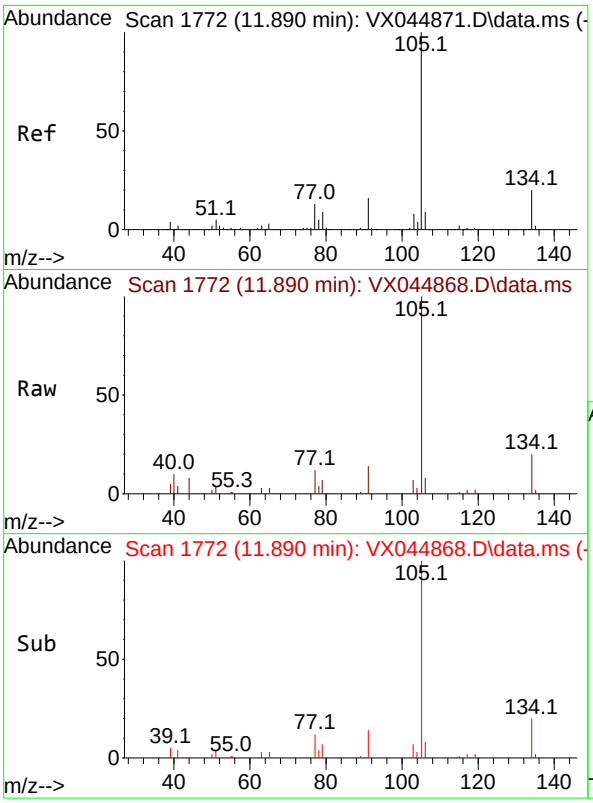


#84
1,2,4-Trimethylbenzene
Concen: 0.833 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:105 Resp: 4876

Ion	Ratio	Lower	Upper
105	100		
120	52.4	22.4	67.0



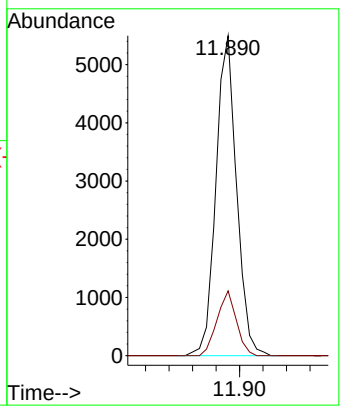


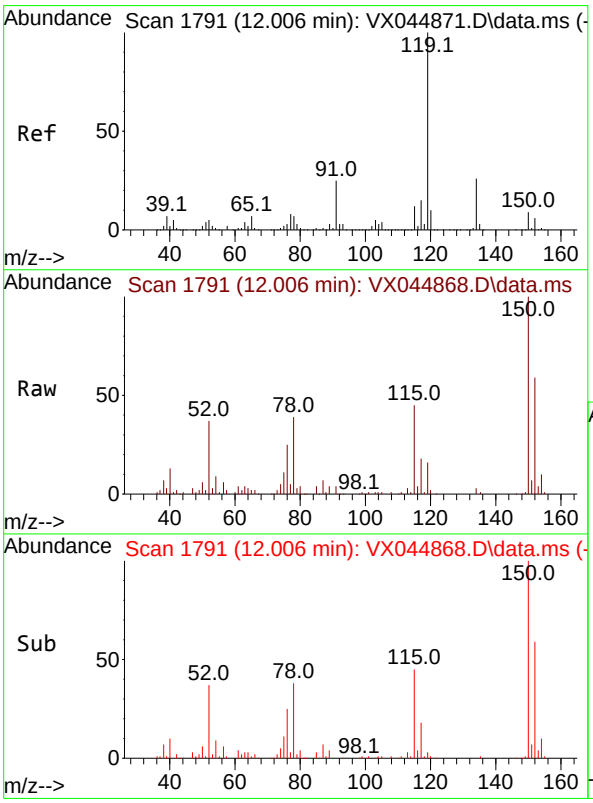
#85
sec-Butylbenzene
Concen: 0.902 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 6700

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3

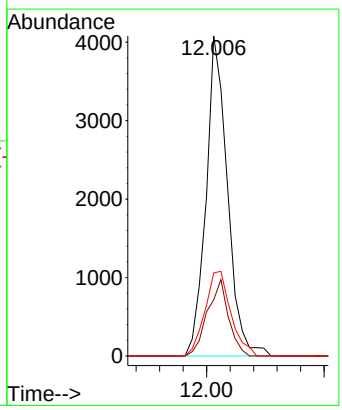


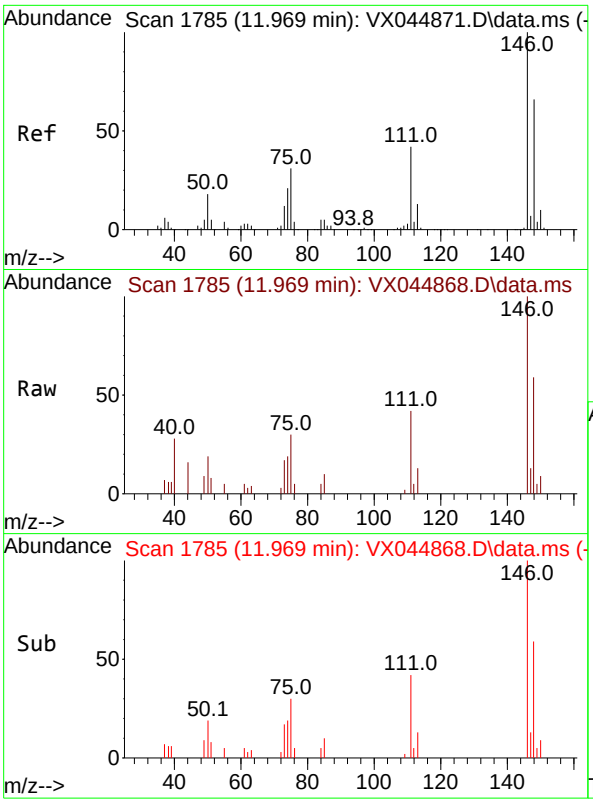


#86
p-Isopropyltoluene
Concen: 0.864 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:119 Resp: 5161

Ion	Ratio	Lower	Upper
119	100		
134	23.4	13.0	38.9
91	32.0	12.1	36.3



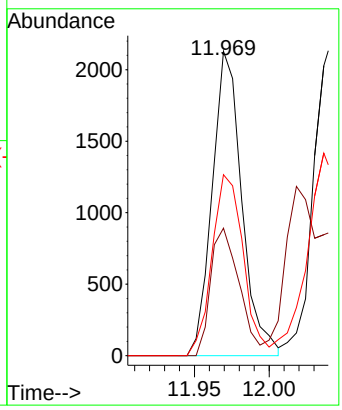


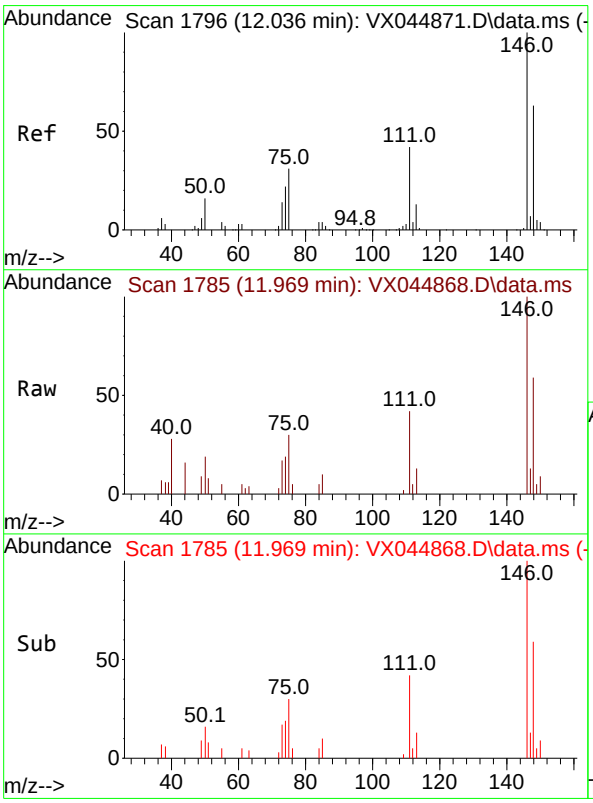
#87
1,3-Dichlorobenzene
Concen: 0.963 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 2933

Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.2	63.6
148	62.8	32.5	97.5

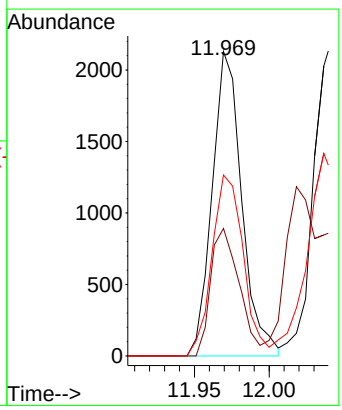


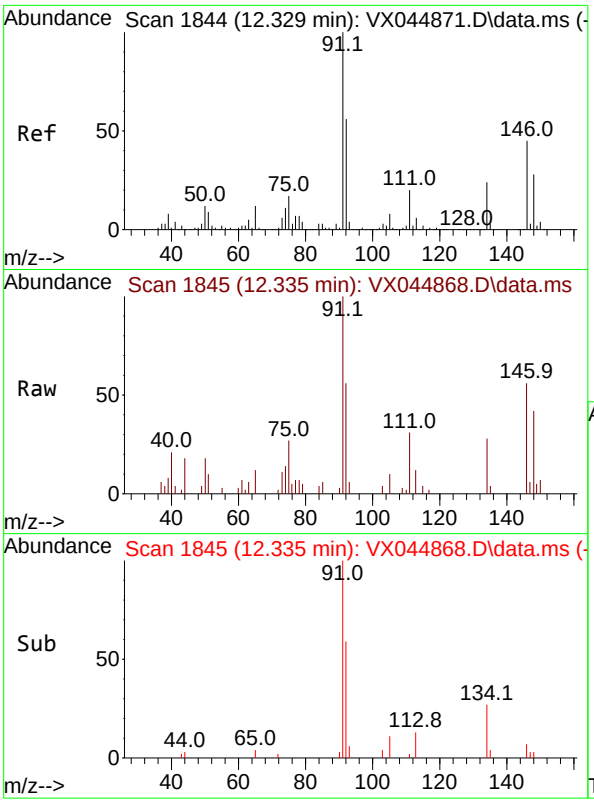


#88
1,4-Dichlorobenzene
Concen: 0.952 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.067 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:146 Resp: 2933

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.4	61.3
148	62.8	32.0	96.0



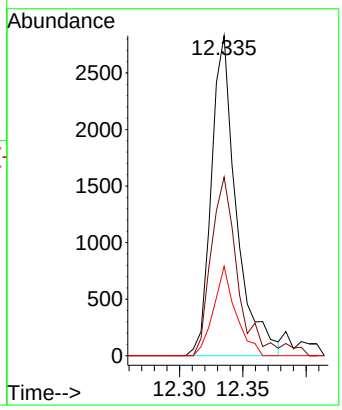


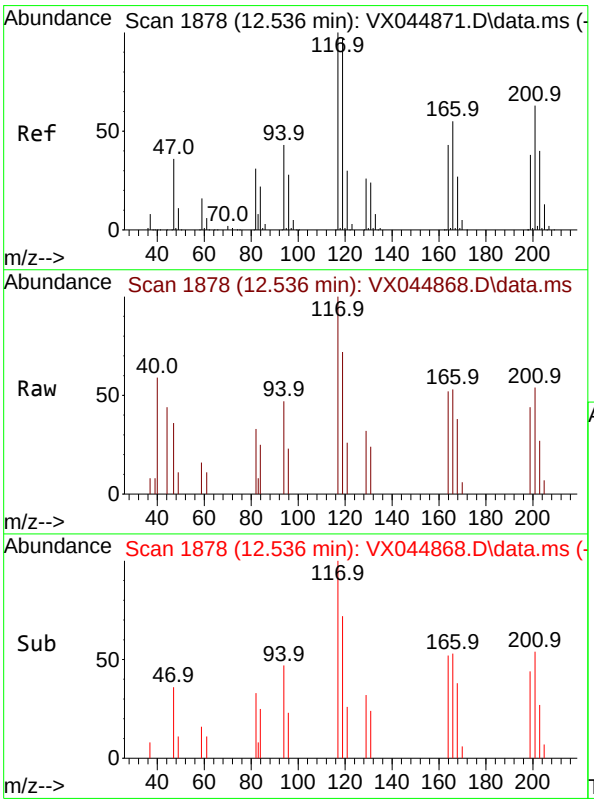
#89
n-Butylbenzene
Concen: 0.734 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 3880

Ion	Ratio	Lower	Upper
91	100		
92	60.9	27.2	81.6
134	24.8	12.1	36.3

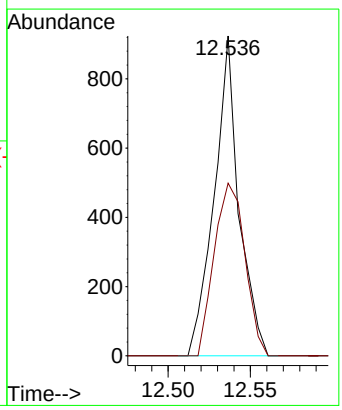


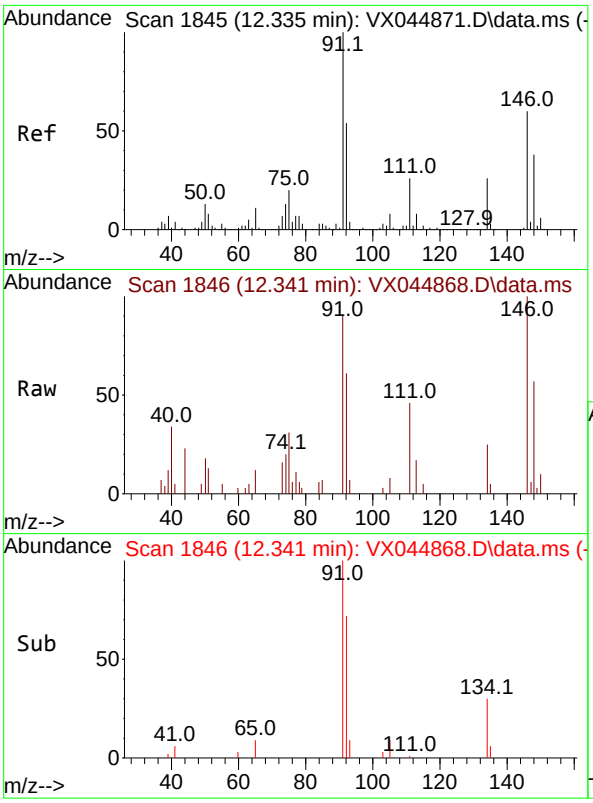


#90
Hexachloroethane
Concen: 0.866 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:117 Resp: 968

Ion	Ratio	Lower	Upper
117	100		
201	66.8	32.5	97.5



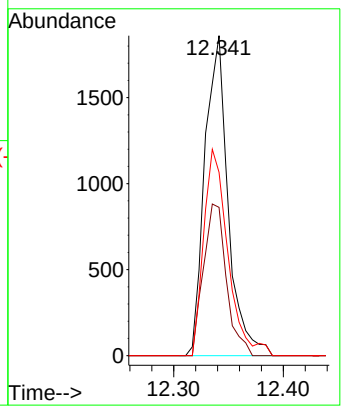


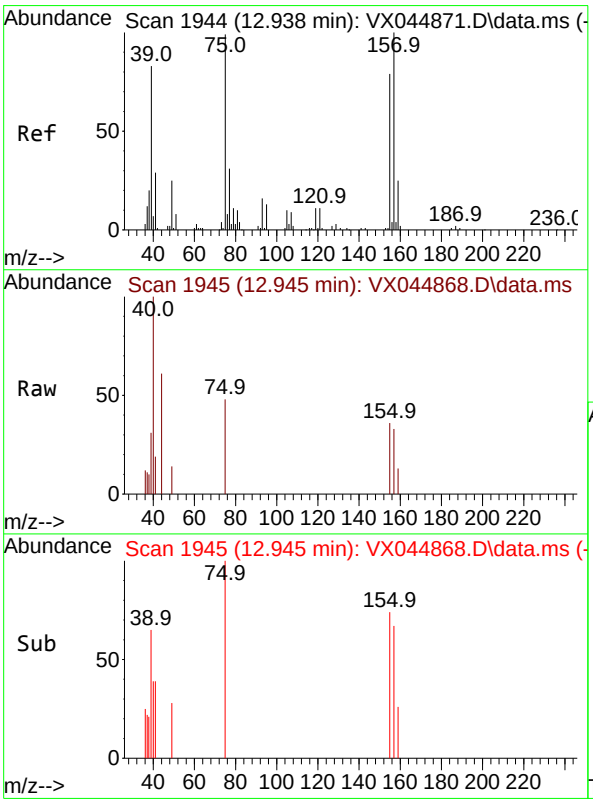
#91
1,2-Dichlorobenzene
Concen: 0.917 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 2744

Ion	Ratio	Lower	Upper
146	100		
111	46.7	21.8	65.4
148	67.2	31.9	95.9

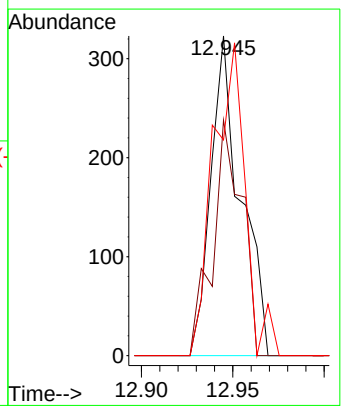


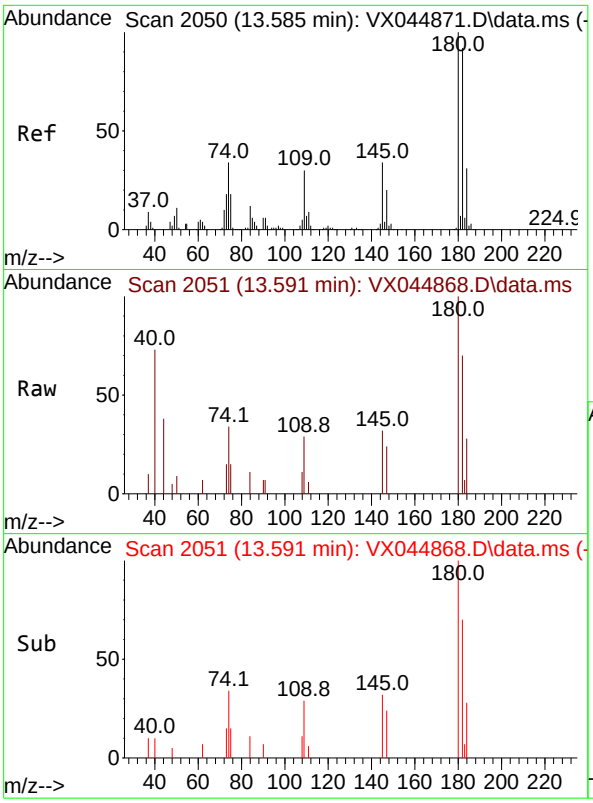


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.801 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion: 75 Resp: 367

Ion	Ratio	Lower	Upper
75	100		
155	71.7	40.5	121.4
157	104.1	51.4	154.3



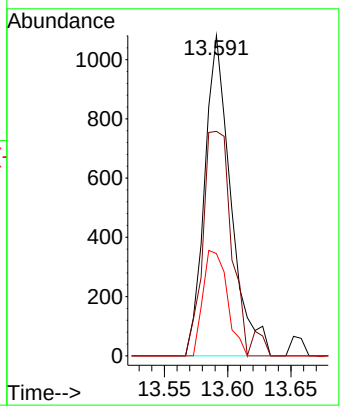


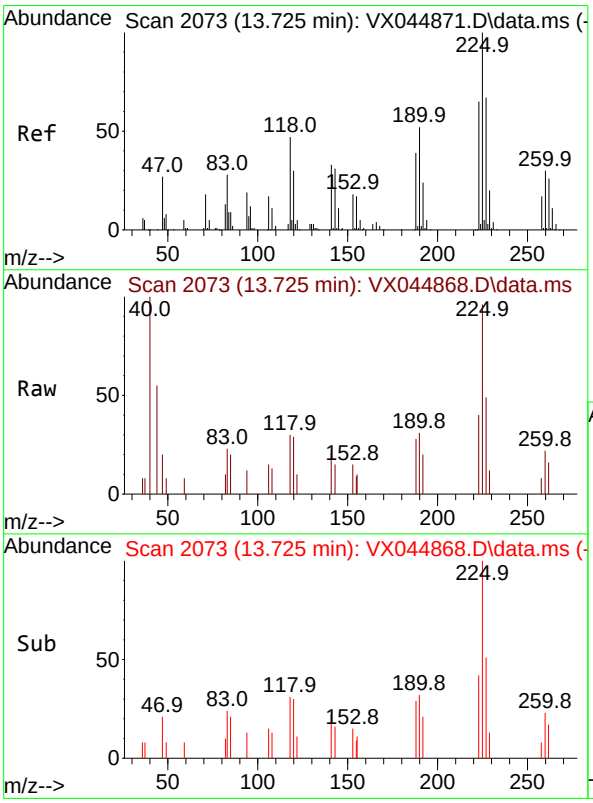
#93
1,2,4-Trichlorobenzene
Concen: 0.861 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 1560

Ion	Ratio	Lower	Upper
180	100		
182	78.7	47.6	142.8
145	30.4	16.4	49.1

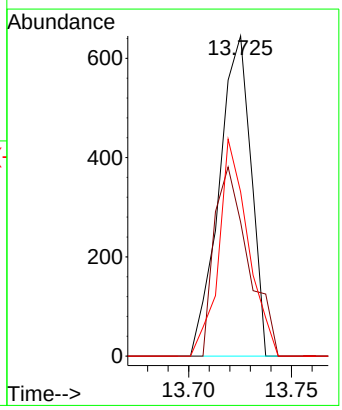


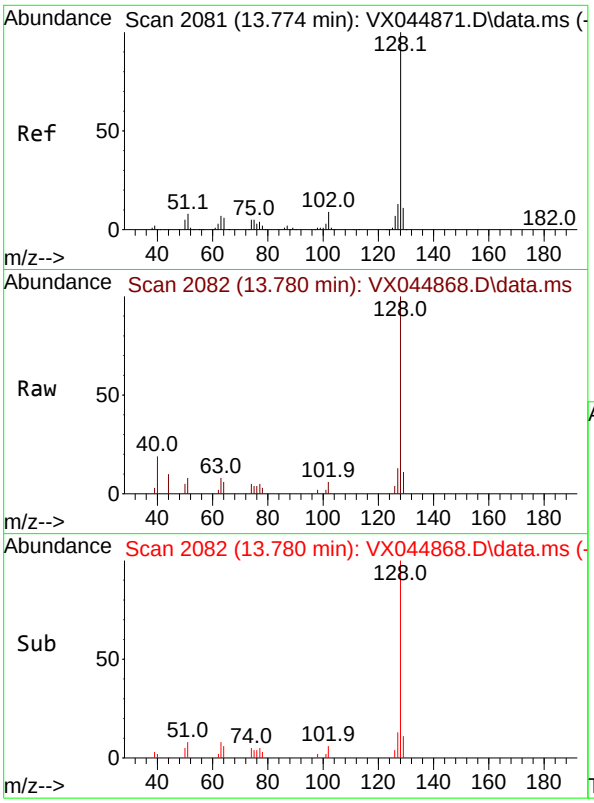


#94
Hexachlorobutadiene
Concen: 0.966 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:225 Resp: 695

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.4	94.2
227	62.6	32.3	96.8



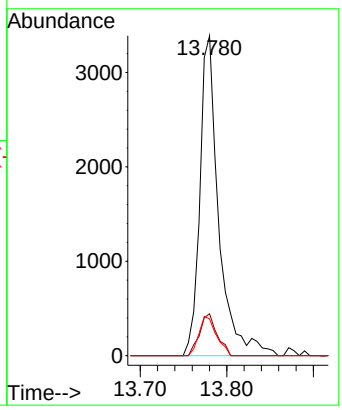


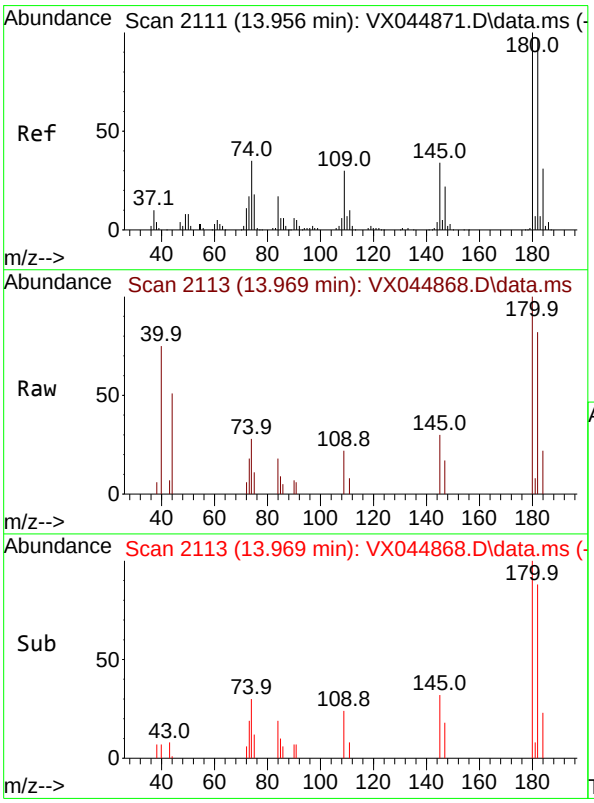
#95
Naphthalene
Concen: 0.783 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.007 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 5125

Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.1	15.1
129	11.3	8.9	13.3

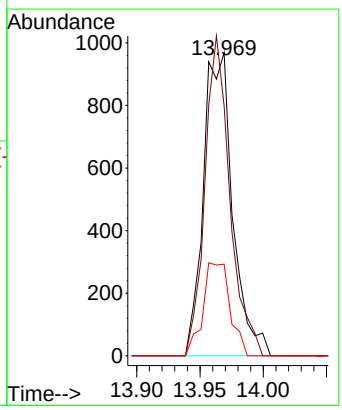




#96
1,2,3-Trichlorobenzene
Concen: 0.853 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VX044868.D
Acq: 10 Feb 2025 10:25

Tgt Ion:180 Resp: 1557

Ion	Ratio	Lower	Upper
180	100		
182	90.0	47.9	143.6
145	28.5	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 11 01:59:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	136105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	253314	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	218625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	95494	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	10397	5.219	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 10.440%#			
35) Dibromofluoromethane	5.385	113	8482	5.150	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.300%#			
50) Toluene-d8	8.647	98	31381	5.039	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 10.080%#			
62) 4-Bromofluorobenzene	11.079	95	10229	4.872	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.740%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	9109	4.772	ug/l	94
3) Chloromethane	1.301	50	11711	5.041	ug/l	97
4) Vinyl Chloride	1.374	62	11509	5.113	ug/l	94
5) Bromomethane	1.593	94	3371	5.005	ug/l	89
6) Chloroethane	1.660	64	4436	5.565	ug/l	99
7) Trichlorofluoromethane	1.868	101	14506	5.096	ug/l	100
8) Diethyl Ether	2.136	74	5062	4.904	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.319	101	8805	5.120	ug/l	98
10) Methyl Iodide	2.447	142	10233	4.591	ug/l	99
11) Tert butyl alcohol	2.983	59	10044	27.175	ug/l	100
12) 1,1-Dichloroethene	2.307	96	8692	4.955	ug/l	95
13) Acrolein	2.239	56	9750	25.567	ug/l	98
14) Allyl chloride	2.660	41	15649	4.936	ug/l	98
15) Acrylonitrile	3.062	53	24101	24.422	ug/l	98
16) Acetone	2.386	43	19877	24.817	ug/l	99
17) Carbon Disulfide	2.502	76	23568	4.899	ug/l	98
18) Methyl Acetate	2.703	43	12257	4.850	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	28100	5.034	ug/l	99
20) Methylene Chloride	2.782	84	9757	4.973	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	8470	4.906	ug/l	94
22) Diisopropyl ether	3.757	45	29768	4.963	ug/l #	80
23) Vinyl Acetate	3.721	43	119108	24.358	ug/l	98
24) 1,1-Dichloroethane	3.605	63	17113	5.099	ug/l	98
25) 2-Butanone	4.568	43	32121	24.698	ug/l	98
26) 2,2-Dichloropropane	4.459	77	13365	5.022	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	10662	5.141	ug/l	95
28) Bromochloromethane	4.898	49	7881	4.886	ug/l #	96
29) Tetrahydrofuran	5.013	42	21097	24.429	ug/l	98
30) Chloroform	5.087	83	16449	5.054	ug/l	98
31) Cyclohexane	5.464	56	15705	5.076	ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	13658	4.947	ug/l	98
36) 1,1-Dichloropropene	5.684	75	11835	4.981	ug/l	98
37) Ethyl Acetate	4.721	43	13530	5.119	ug/l	99
38) Carbon Tetrachloride	5.672	117	11797	5.066	ug/l	97
39) Methylcyclohexane	7.373	83	14472	4.711	ug/l	96
40) Benzene	6.038	78	37687	5.079	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 11 01:59:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	6648	4.699 ug/l		96
42) 1,2-Dichloroethane	6.086	62	11789	4.985 ug/l		100
43) Isopropyl Acetate	6.342	43	19803	4.640 ug/l		99
44) Trichloroethene	7.123	130	8614	5.079 ug/l		95
45) 1,2-Dichloropropane	7.428	63	8976	4.863 ug/l		98
46) Dibromomethane	7.586	93	6210	4.851 ug/l		95
47) Bromodichloromethane	7.818	83	12173	4.911 ug/l		94
48) Methyl methacrylate	7.702	41	9298	4.620 ug/l		98
49) 1,4-Dioxane	7.678	88	4365	101.099 ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	65064	25.076 ug/l		100
52) Toluene	8.720	92	22090	4.999 ug/l		96
53) t-1,3-Dichloropropene	8.976	75	11413	4.550 ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	12943	4.628 ug/l	#	88
55) 1,1,2-Trichloroethane	9.153	97	8662	5.099 ug/l		98
56) Ethyl methacrylate	9.116	69	12351	4.502 ug/l		96
57) 1,3-Dichloropropane	9.305	76	14839	4.993 ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	31498	23.382 ug/l		99
59) 2-Hexanone	9.433	43	45538	24.359 ug/l		99
60) Dibromochloromethane	9.519	129	8668	4.771 ug/l		99
61) 1,2-Dibromoethane	9.610	107	8353	4.852 ug/l		96
64) Tetrachloroethene	9.269	164	6803	4.934 ug/l		95
65) Chlorobenzene	10.079	112	23903	5.090 ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	7380	4.883 ug/l		97
67) Ethyl Benzene	10.189	91	40945	4.941 ug/l		97
68) m/p-Xylenes	10.299	106	30627	10.019 ug/l		100
69) o-Xylene	10.640	106	15761	5.139 ug/l		98
70) Styrene	10.653	104	24576	4.973 ug/l		99
71) Bromoform	10.799	173	5391	4.779 ug/l	#	97
73) Isopropylbenzene	10.957	105	38315	4.983 ug/l		100
74) N-amyl acetate	10.842	43	16653	4.786 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	13394	5.069 ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	13757	6.498 ug/l		87
77) Bromobenzene	11.195	156	8789	5.042 ug/l		97
78) n-propylbenzene	11.305	91	43923	4.949 ug/l		99
79) 2-Chlorotoluene	11.360	91	27311	5.007 ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	31761	5.090 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	3303	4.013 ug/l		87
82) 4-Chlorotoluene	11.451	91	30138	4.994 ug/l		99
83) tert-Butylbenzene	11.713	119	31992	5.068 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	31053	5.042 ug/l		98
85) sec-Butylbenzene	11.890	105	38437	4.917 ug/l		98
86) p-Isopropyltoluene	12.006	119	30835	4.905 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	15935	4.971 ug/l		95
88) 1,4-Dichlorobenzene	12.036	146	16347	5.043 ug/l		95
89) n-Butylbenzene	12.329	91	25747	4.630 ug/l		97
90) Hexachloroethane	12.536	117	5620	4.775 ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	16362	5.193 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2254	4.674 ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	8923	4.680 ug/l		99
94) Hexachlorobutadiene	13.719	225	3595	4.750 ug/l		99
95) Naphthalene	13.774	128	32776	4.756 ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	9093	4.733 ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 11 01:59:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

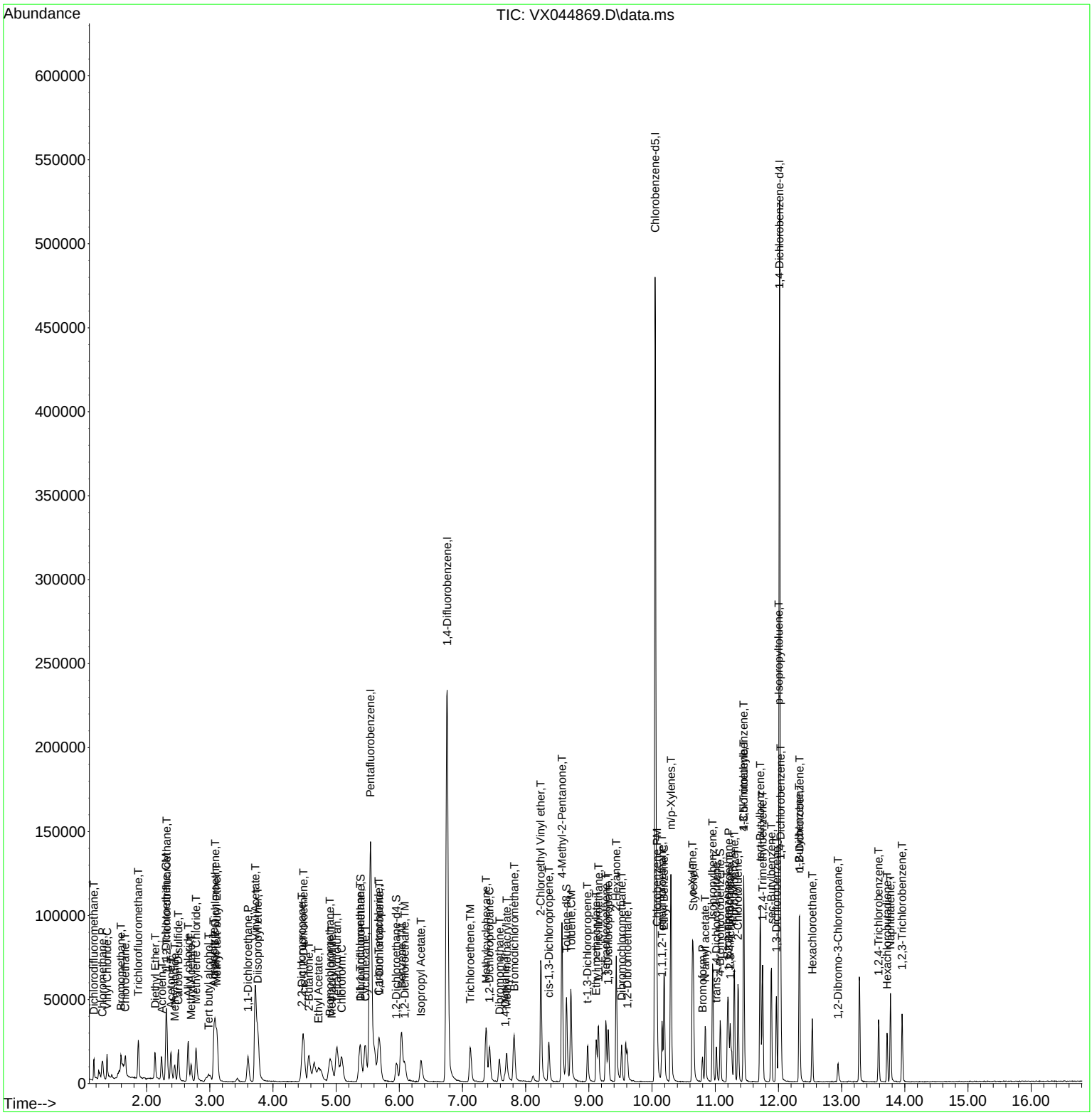
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

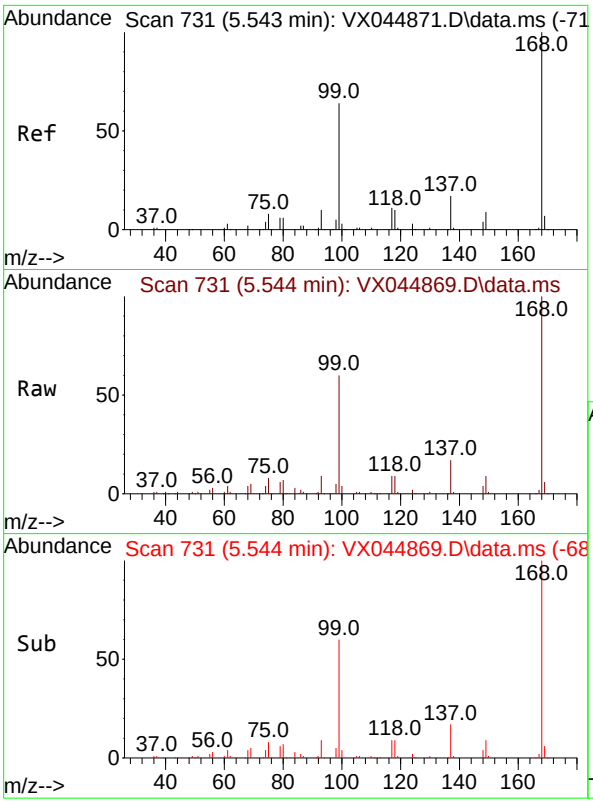
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044869.D
Acq On : 10 Feb 2025 10:48
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: Feb 11 01:59:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



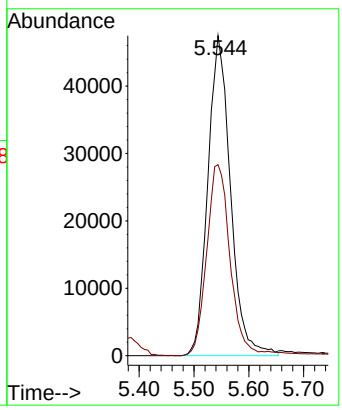


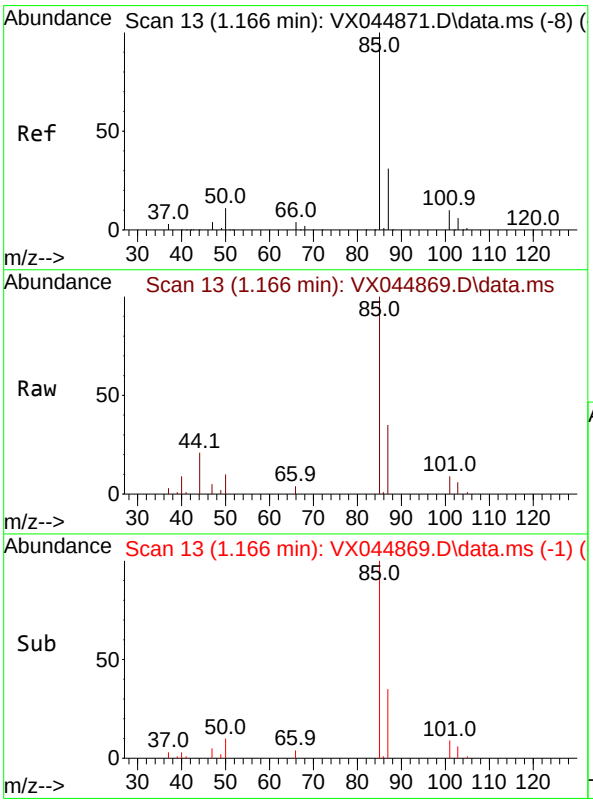
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 136105

Ion	Ratio	Lower	Upper
168	100		
99	59.7	51.2	76.8

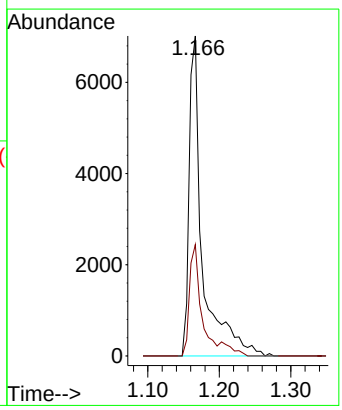


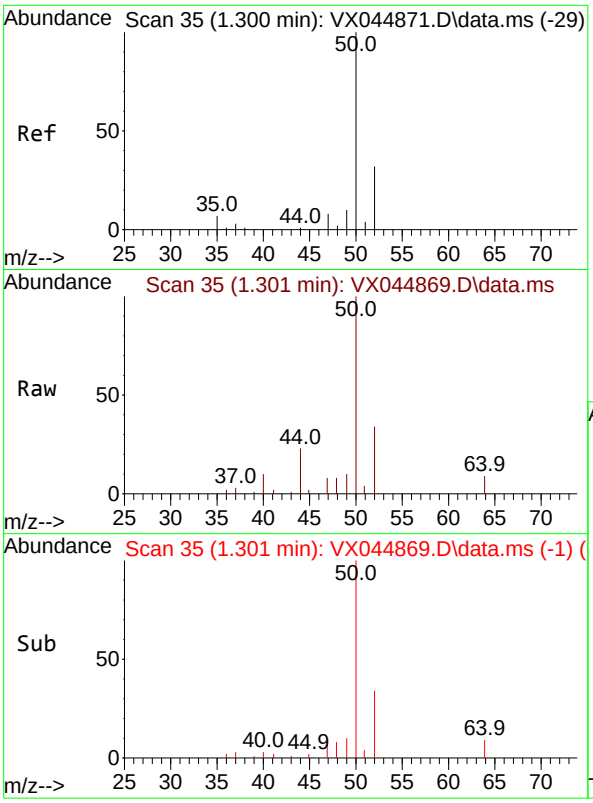


#2
Dichlorodifluoromethane
Concen: 4.772 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 85 Resp: 9109

Ion	Ratio	Lower	Upper
85	100		
87	34.8	15.8	47.3



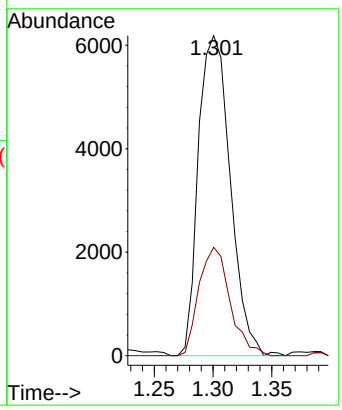


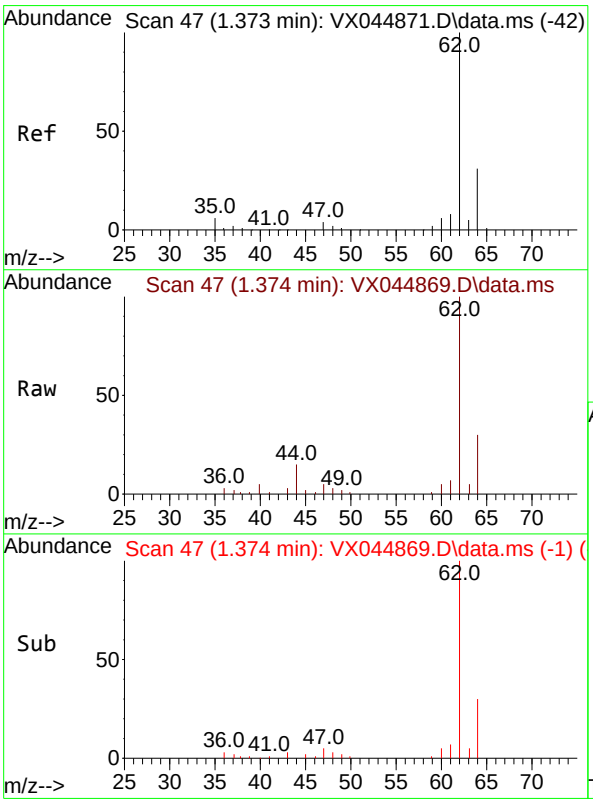
#3
Chloromethane
Concen: 5.041 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 11711

Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.9	38.9

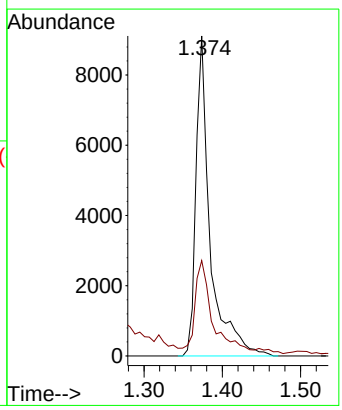


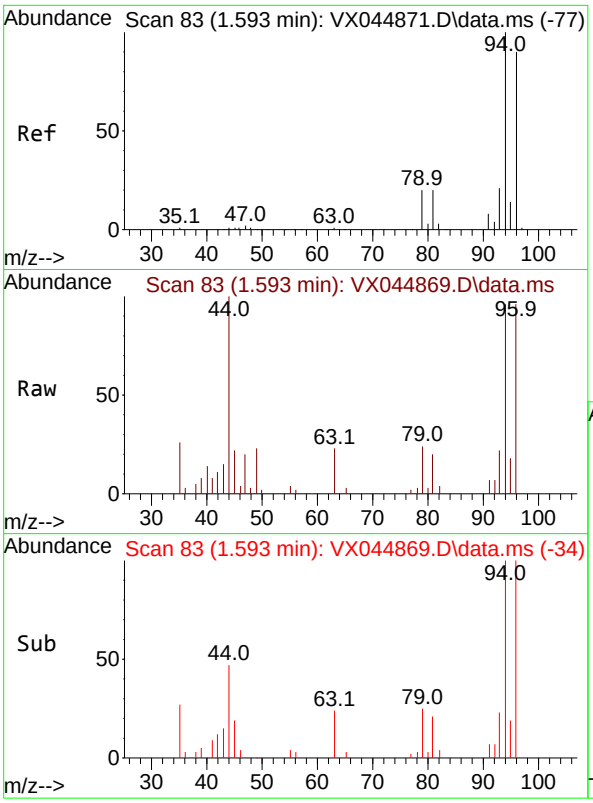


#4
Vinyl Chloride
Concen: 5.113 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11509

Ion	Ratio	Lower	Upper
62	100		
64	28.4	25.4	38.0



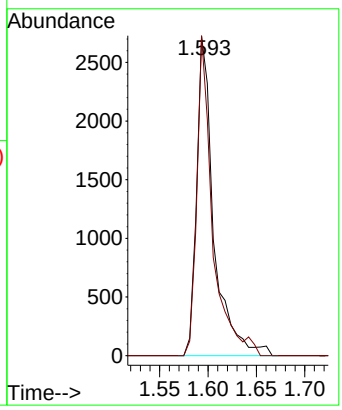


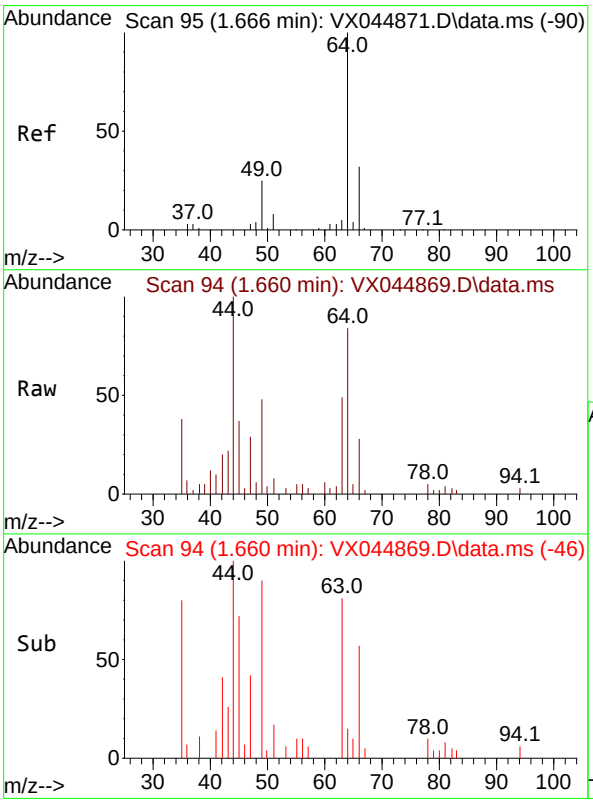
#5
Bromomethane
Concen: 5.005 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 3371

Ion	Ratio	Lower	Upper
94	100		
96	100.2	71.6	107.4

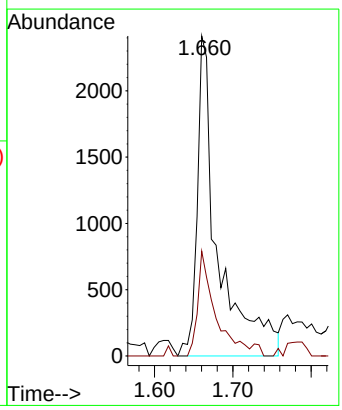


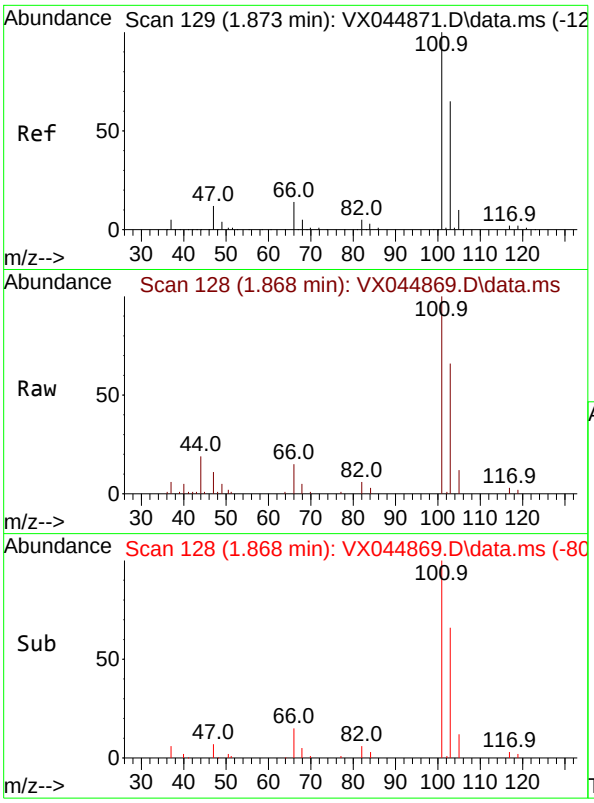


#6
Chloroethane
Concen: 5.565 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 64 Resp: 4436

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.9	38.9



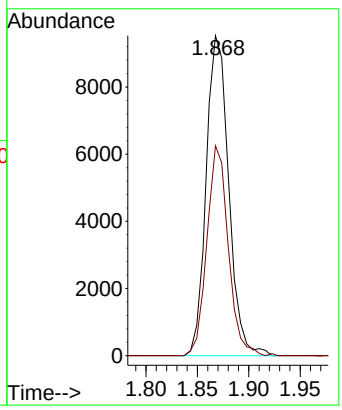


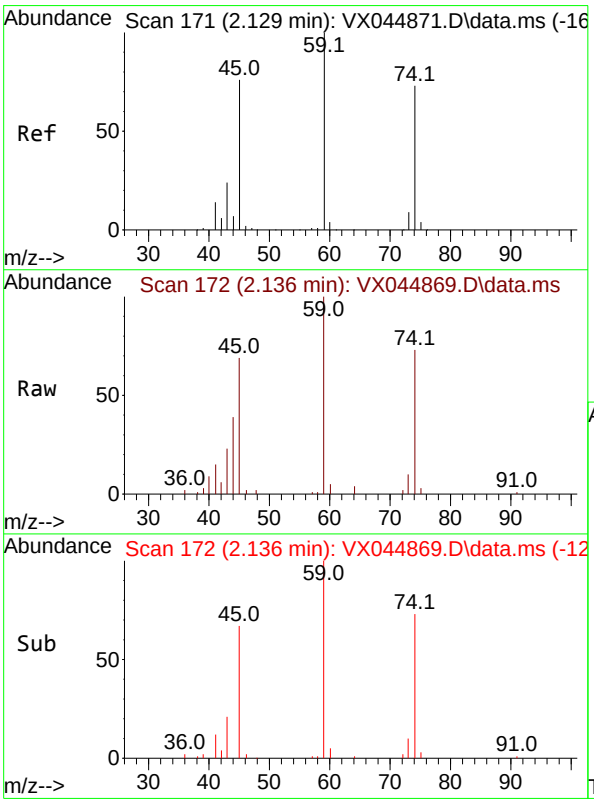
#7
Trichlorofluoromethane
Concen: 5.096 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 14506

Ion	Ratio	Lower	Upper
101	100		
103	65.6	52.4	78.6

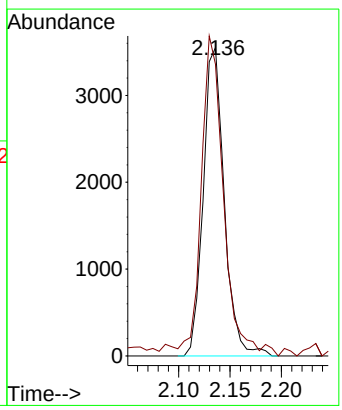


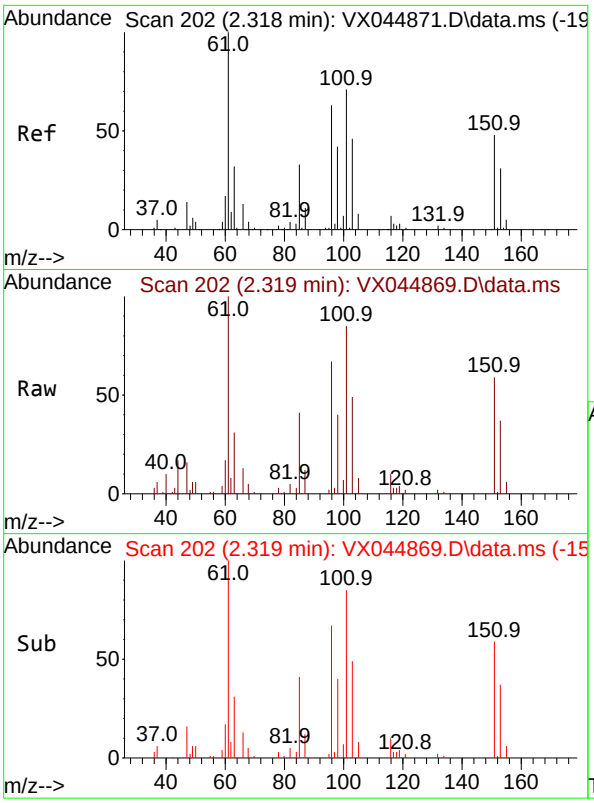


#8
Diethyl Ether
Concen: 4.904 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 74 Resp: 5062

Ion	Ratio	Lower	Upper
74	100		
45	112.2	51.1	153.4



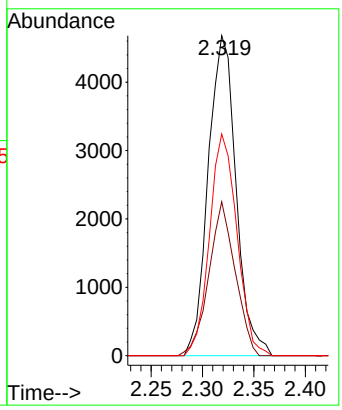


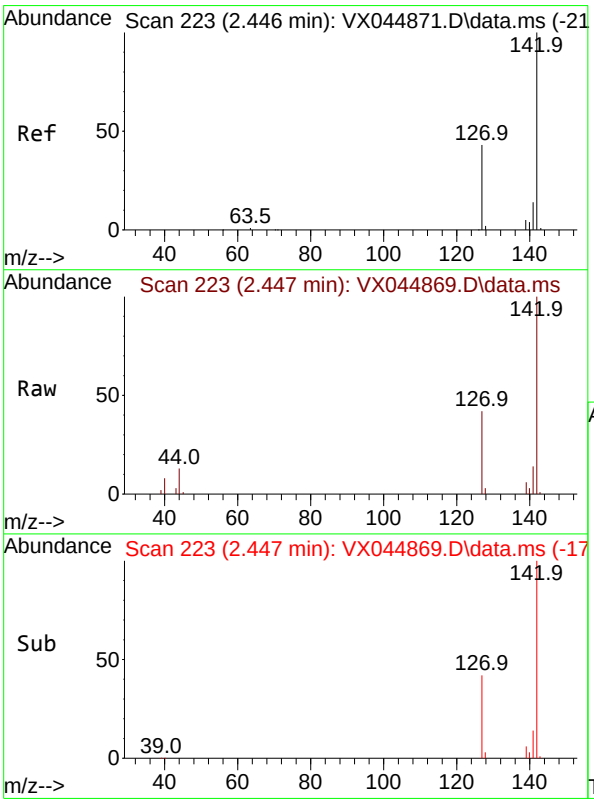
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.120 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 8805

Ion	Ratio	Lower	Upper
101	100		
85	45.5	35.7	53.5
151	68.3	56.0	84.0

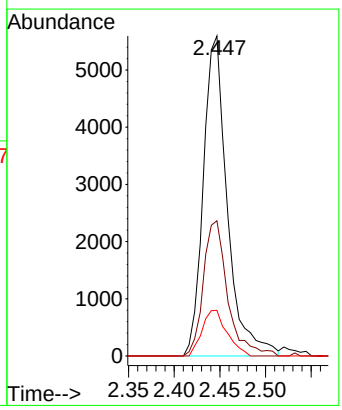


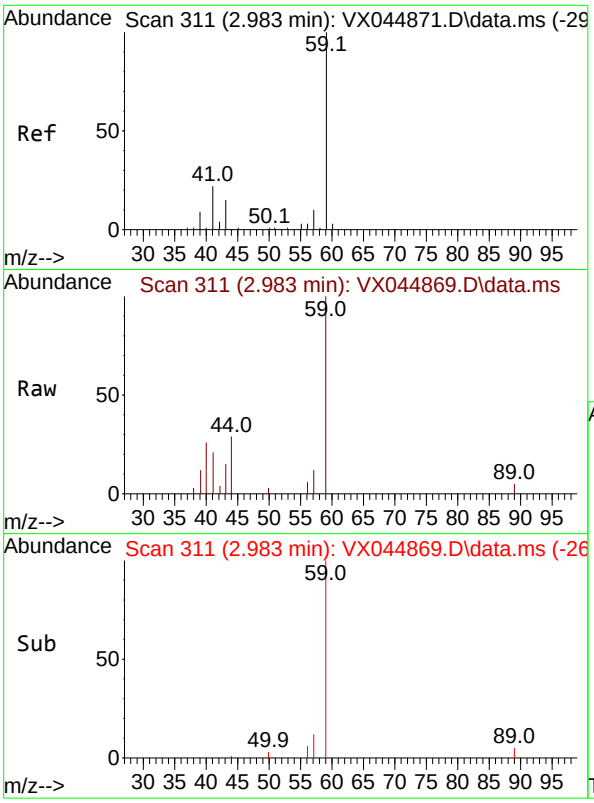


#10
Methyl Iodide
Concen: 4.591 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:142 Resp: 10233

Ion	Ratio	Lower	Upper
142	100		
127	42.7	34.3	51.5
141	14.8	11.4	17.2



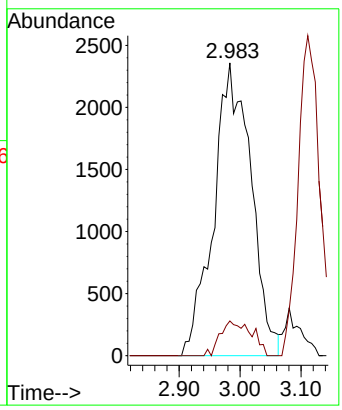


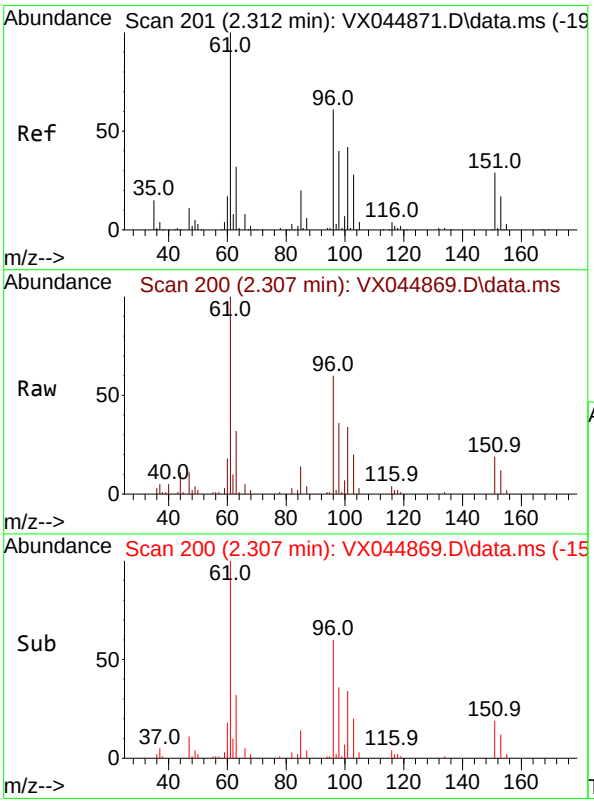
#11
Tert butyl alcohol
Concen: 27.175 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 10044

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1

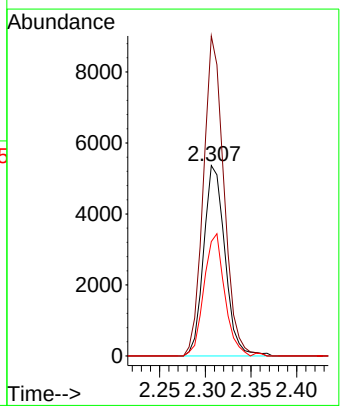


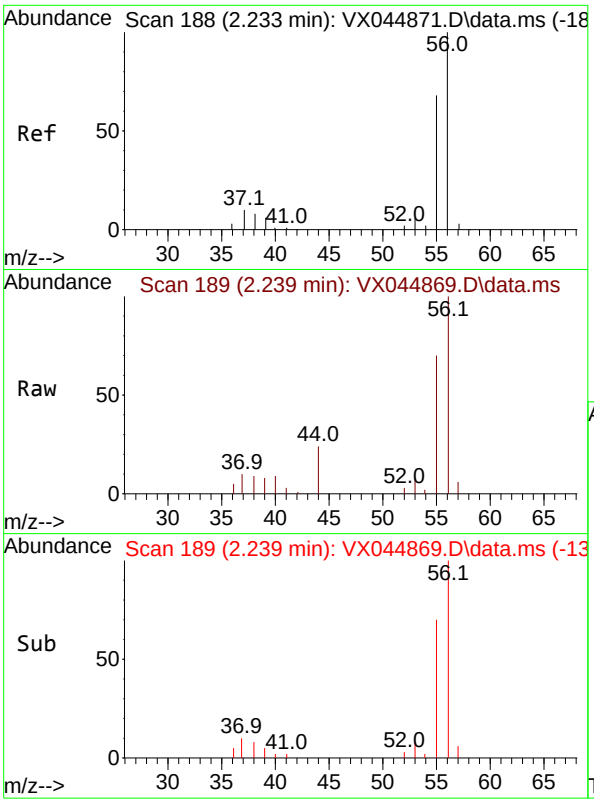


#12
1,1-Dichloroethene
Concen: 4.955 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 96 Resp: 8692

Ion	Ratio	Lower	Upper
96	100		
61	168.0	130.2	195.4
98	60.1	52.2	78.4



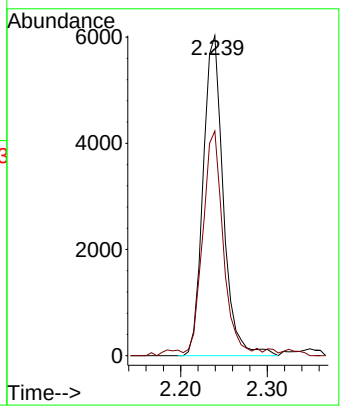


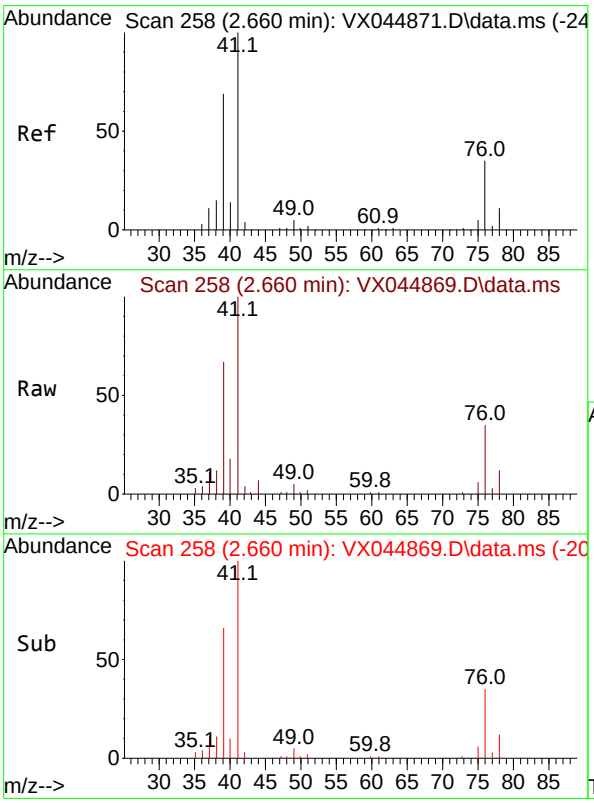
#13
Acrolein
Concen: 25.567 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 9750

Ion	Ratio	Lower	Upper
56	100		
55	71.6	55.7	83.5

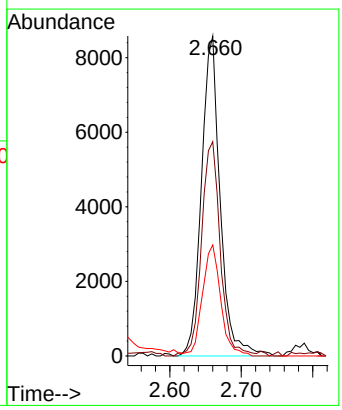


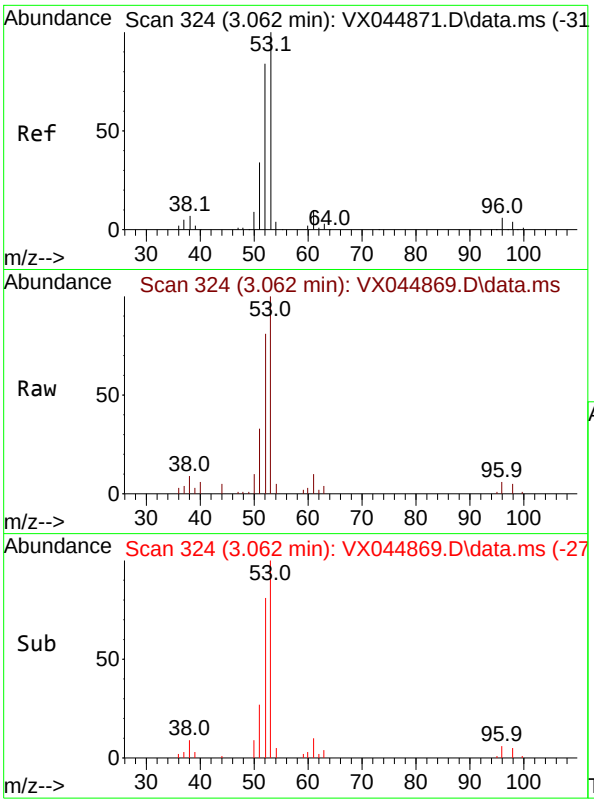


#14
Allyl chloride
Concen: 4.936 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 15649

Ion	Ratio	Lower	Upper
41	100		
39	66.7	51.4	77.2
76	33.9	27.0	40.4



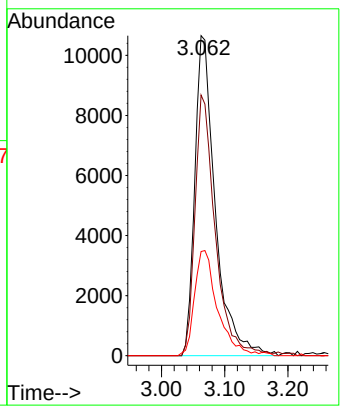


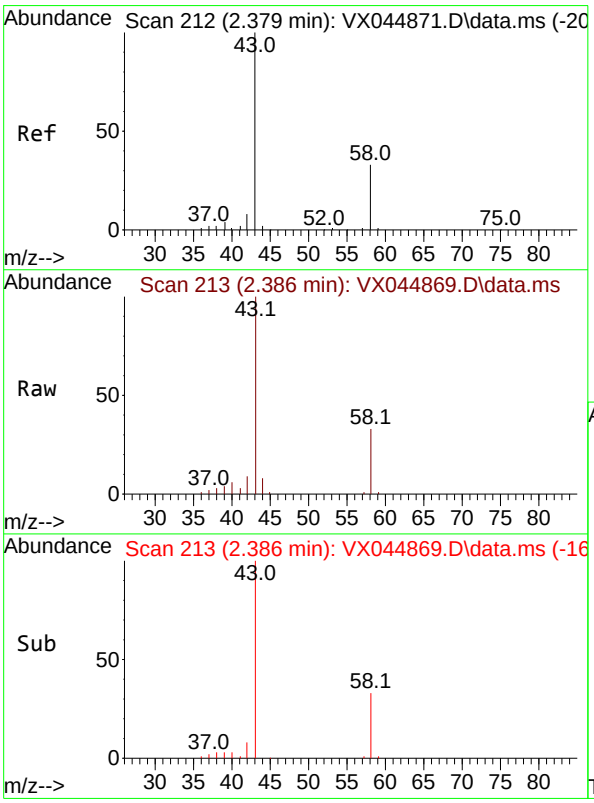
#15
Acrylonitrile
Concen: 24.422 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 24101

Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	36.6	28.0	42.0

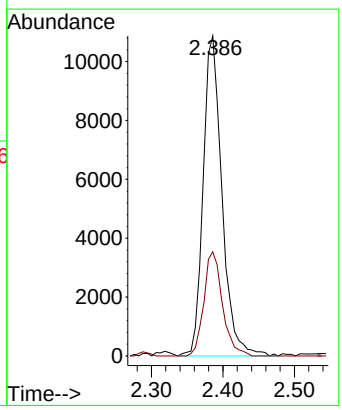


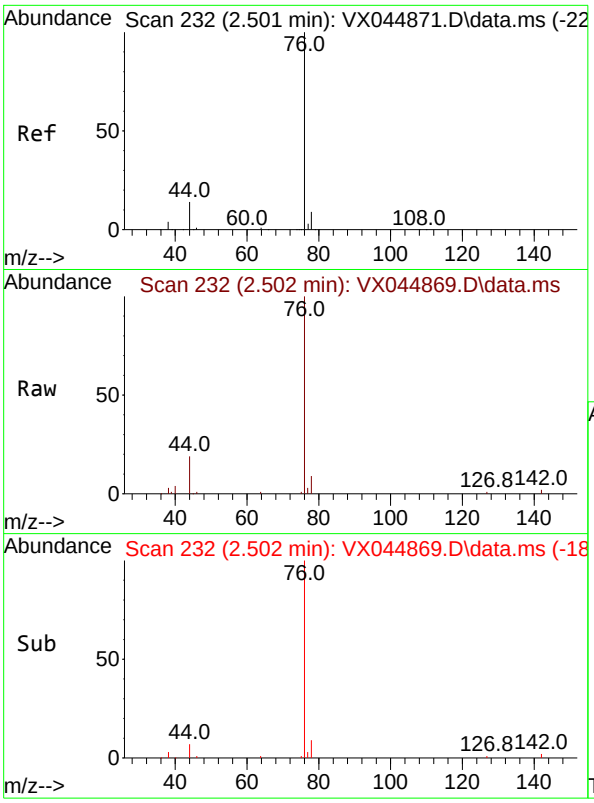


#16
Acetone
Concen: 24.817 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 19877

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7



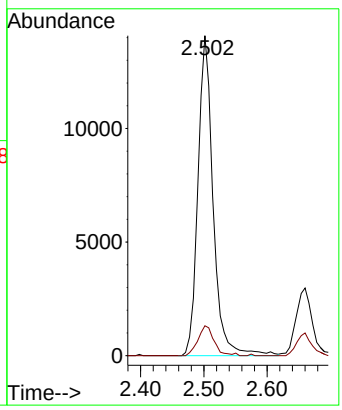


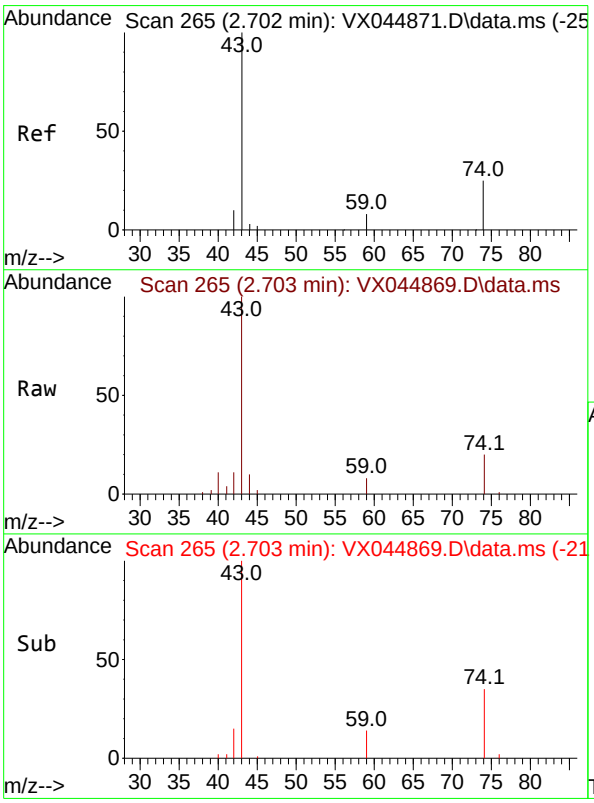
#17
Carbon Disulfide
Concen: 4.899 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 23568

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4

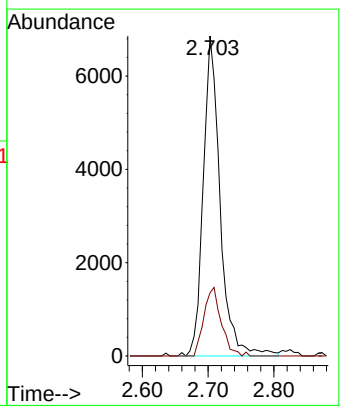


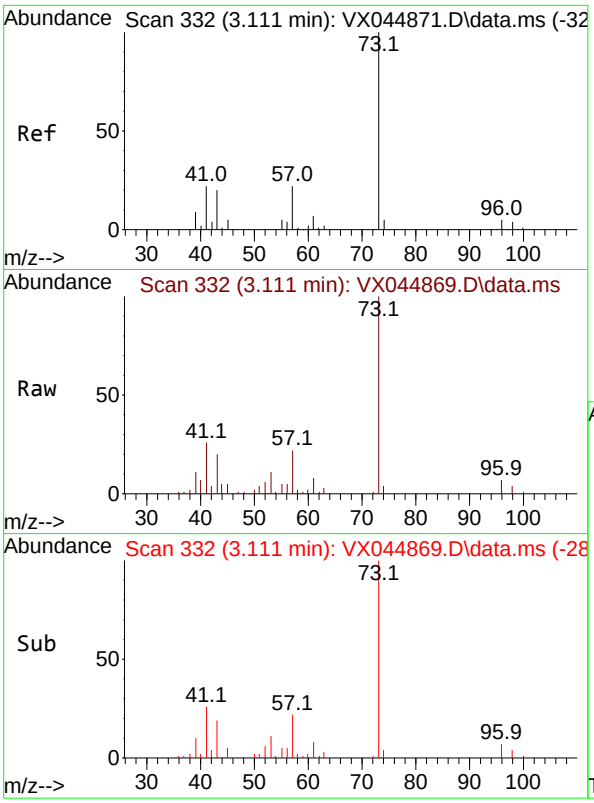


#18
Methyl Acetate
Concen: 4.850 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 12257

Ion	Ratio	Lower	Upper
43	100		
74	22.0	18.9	28.3



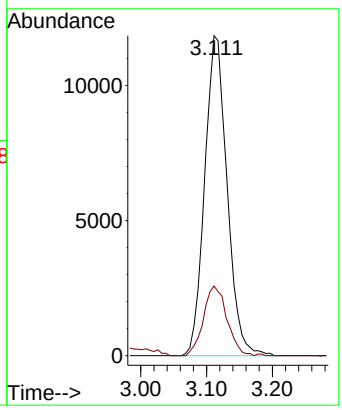


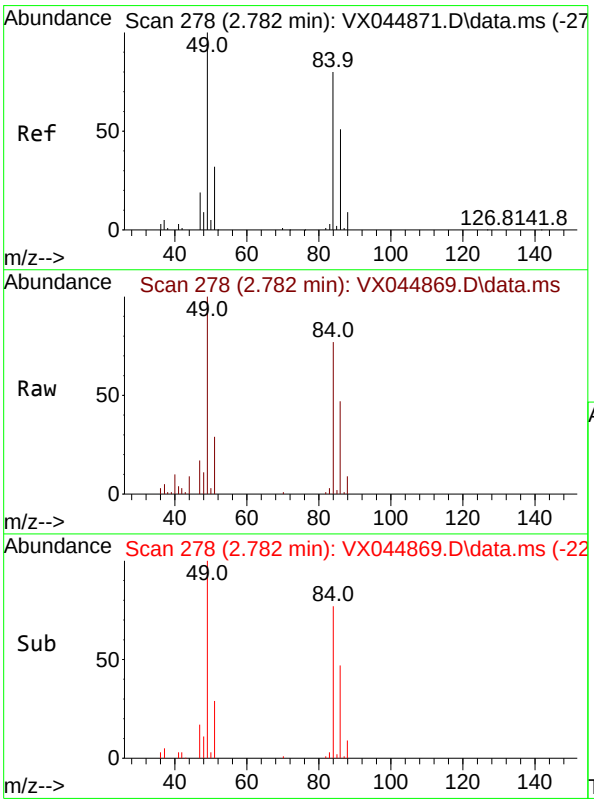
#19
Methyl tert-butyl Ether
Concen: 5.034 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 28100

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.9	26.9

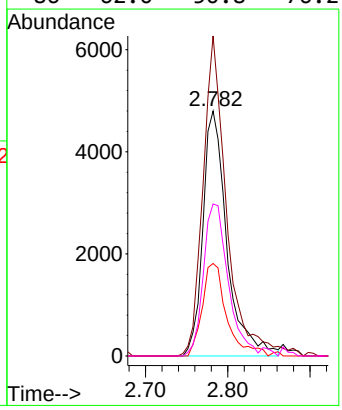


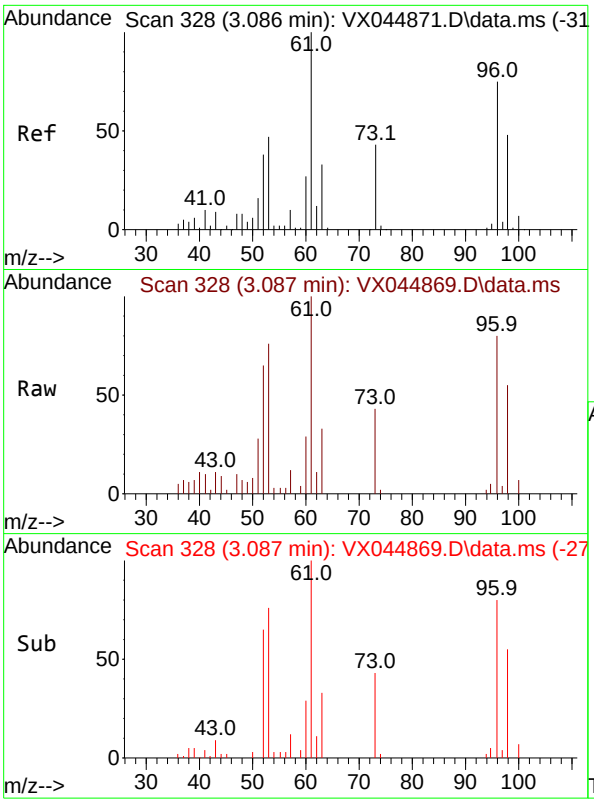


#20
Methylene Chloride
Concen: 4.973 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 84 Resp: 9757

Ion	Ratio	Lower	Upper
84	100		
49	130.7	100.1	150.1
51	37.7	31.7	47.5
86	62.0	50.8	76.2



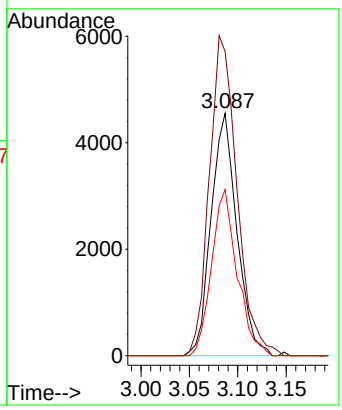


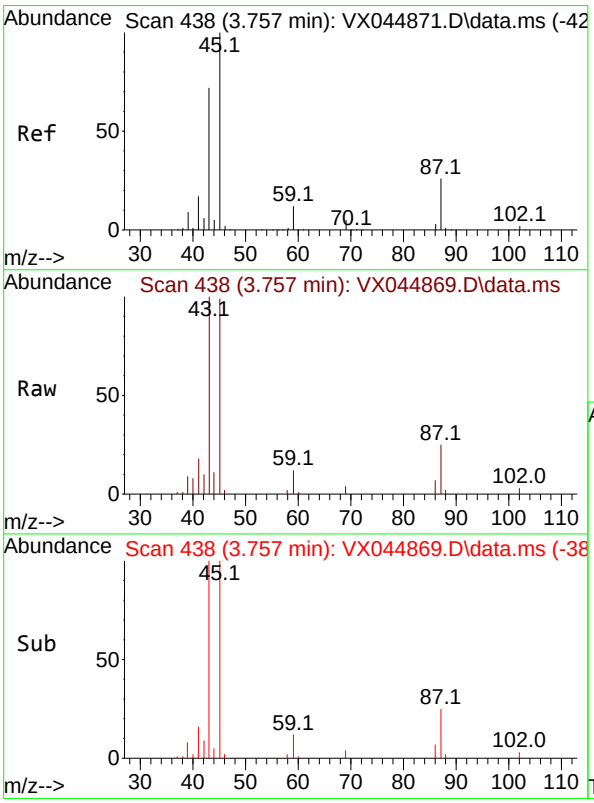
#21
trans-1,2-Dichloroethene
Concen: 4.906 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 8470

Ion	Ratio	Lower	Upper
96	100		
61	125.5	106.0	159.0
98	68.5	50.6	76.0

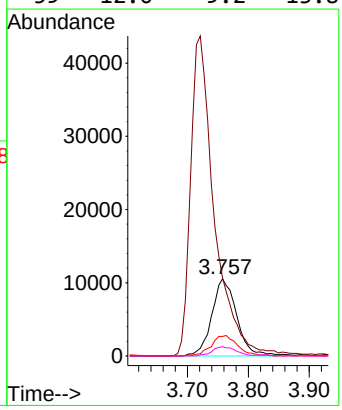


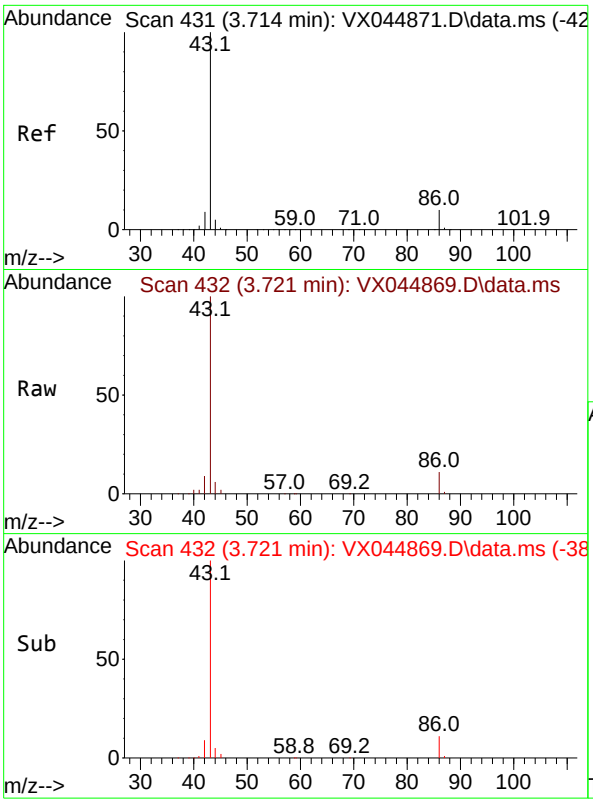


#22
Diisopropyl ether
Concen: 4.963 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 45 Resp: 29768

Ion	Ratio	Lower	Upper
45	100		
43	97.8	58.0	87.0#
87	25.2	20.7	31.1
59	12.0	9.2	13.8



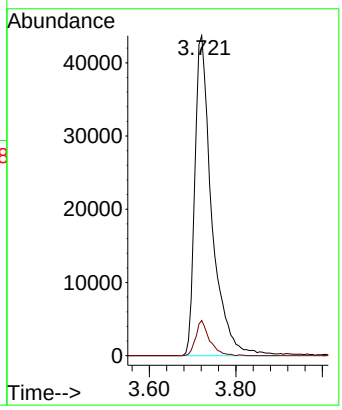


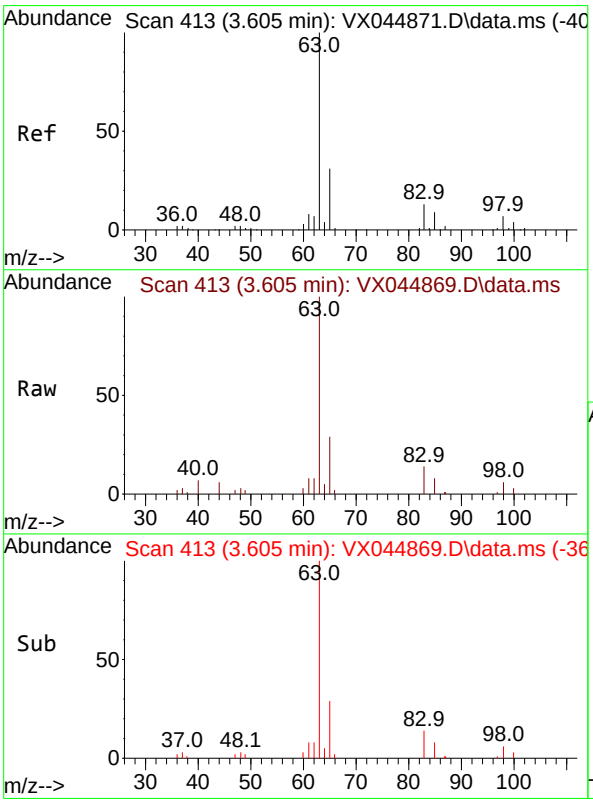
#23
Vinyl Acetate
Concen: 24.358 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 119108

Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.3	12.5

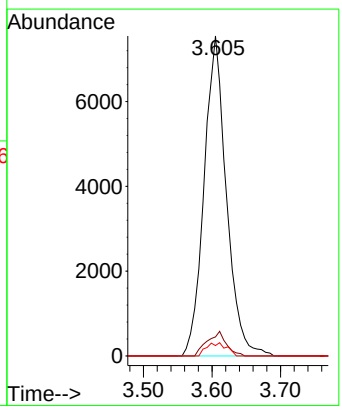


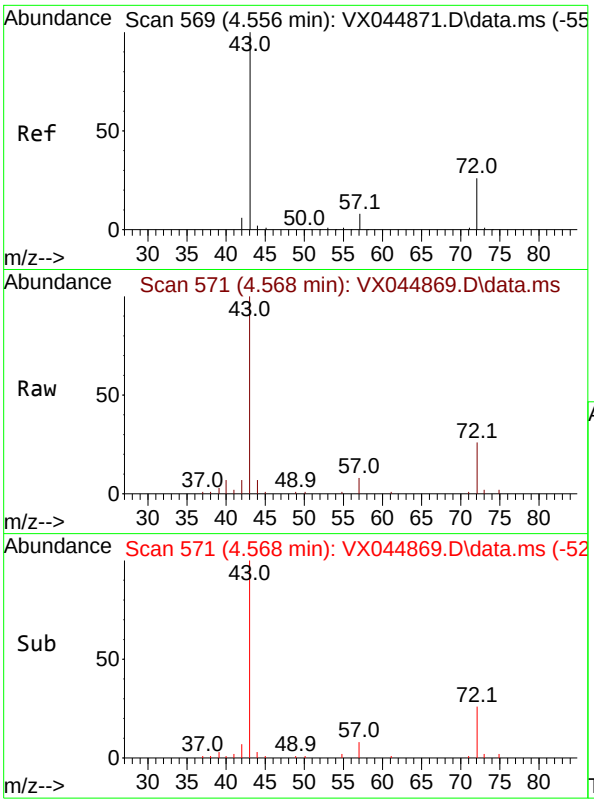


#24
1,1-Dichloroethane
Concen: 5.099 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 17113

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.3	9.9
100	3.2	2.1	6.5



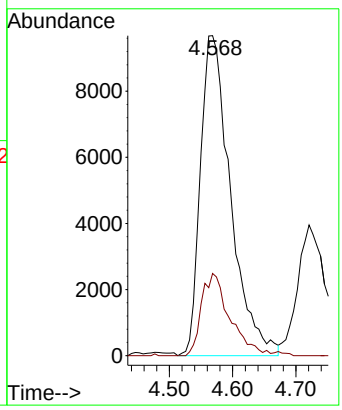


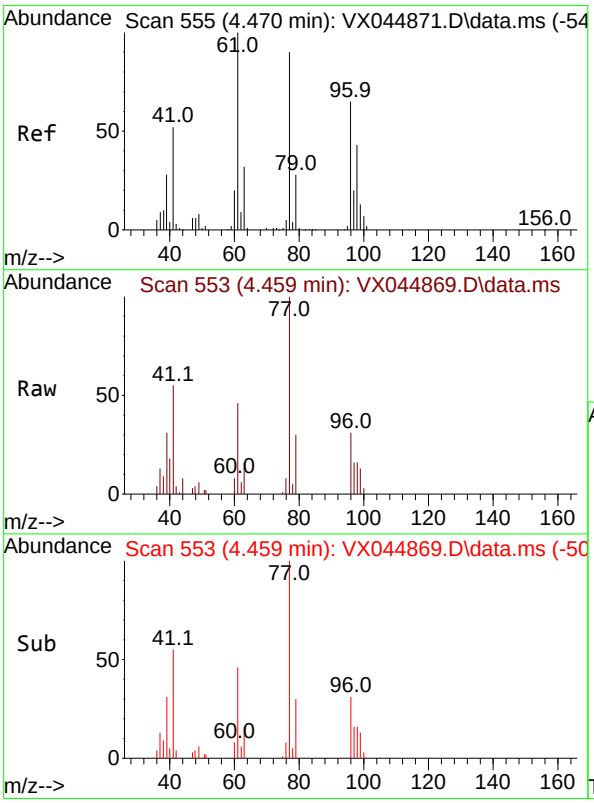
#25
2-Butanone
Concen: 24.698 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 32121

Ion	Ratio	Lower	Upper
43	100		
72	25.7	21.2	31.8

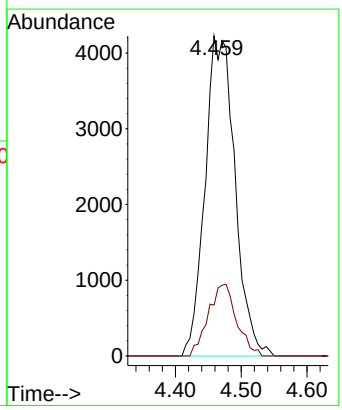


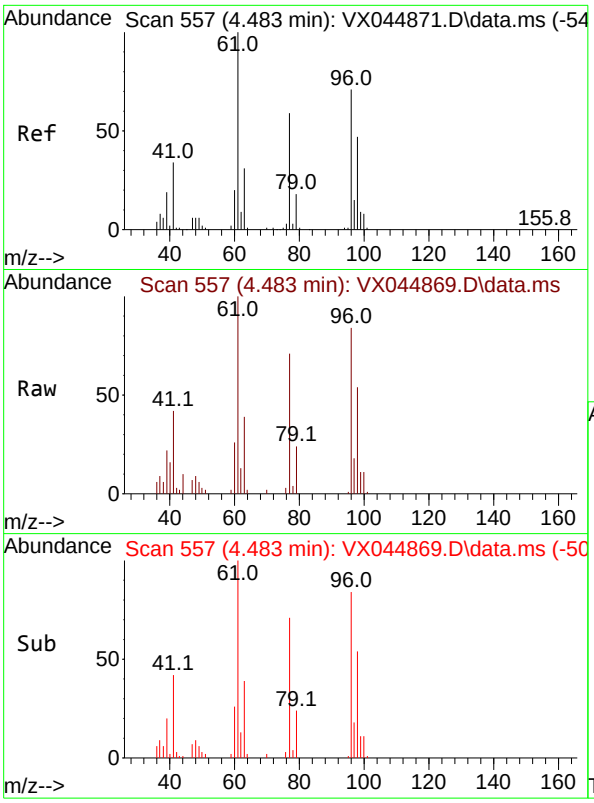


#26
2,2-Dichloropropane
Concen: 5.022 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 77 Resp: 13365

Ion	Ratio	Lower	Upper
77	100		
97	21.2	11.8	35.3



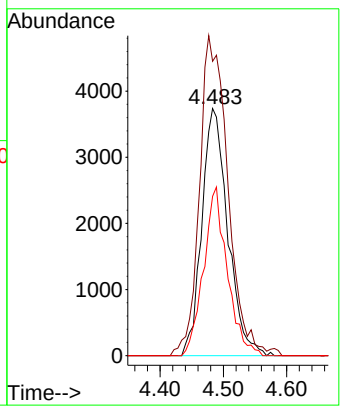


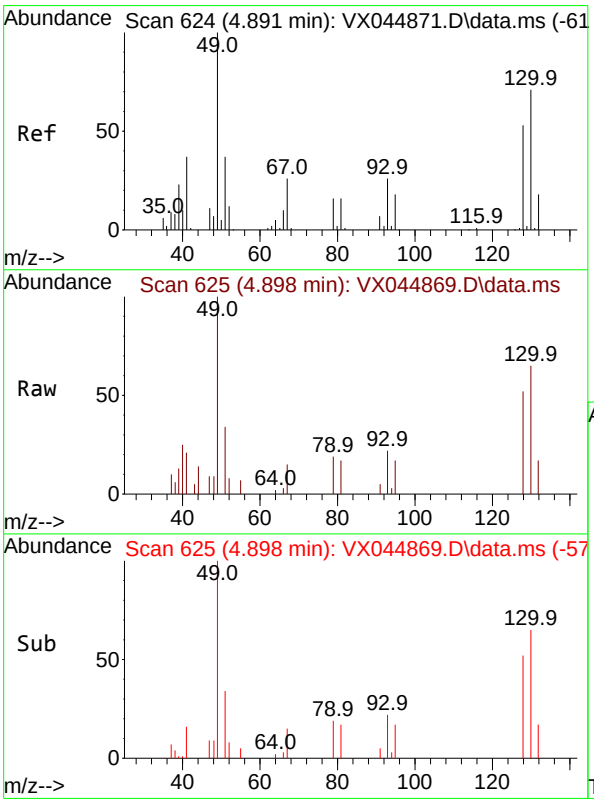
#27
cis-1,2-Dichloroethene
Concen: 5.141 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 10662

Ion	Ratio	Lower	Upper
96	100		
61	140.8	0.0	294.0
98	62.4	0.0	131.2

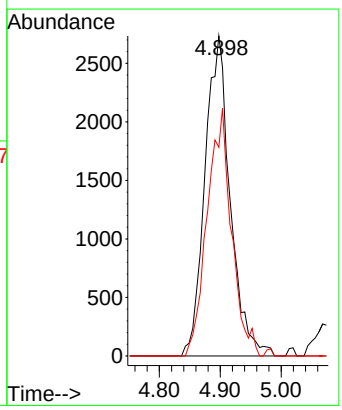


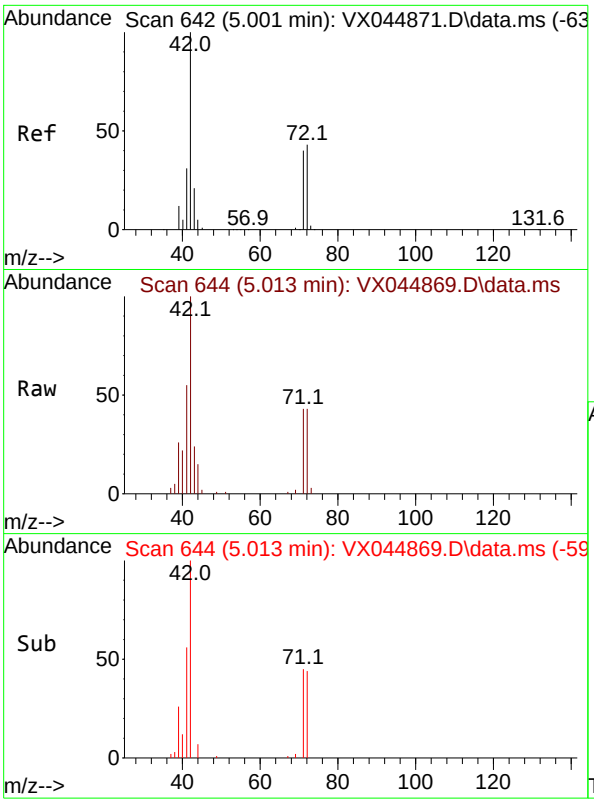


#28
Bromochloromethane
Concen: 4.886 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 49 Resp: 7881

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	74.4	56.7	85.1



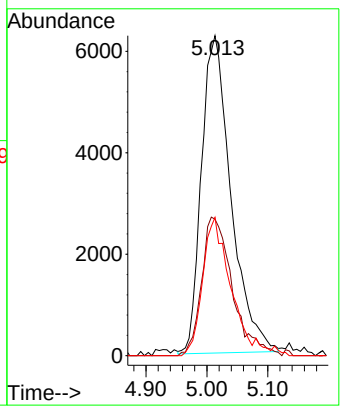


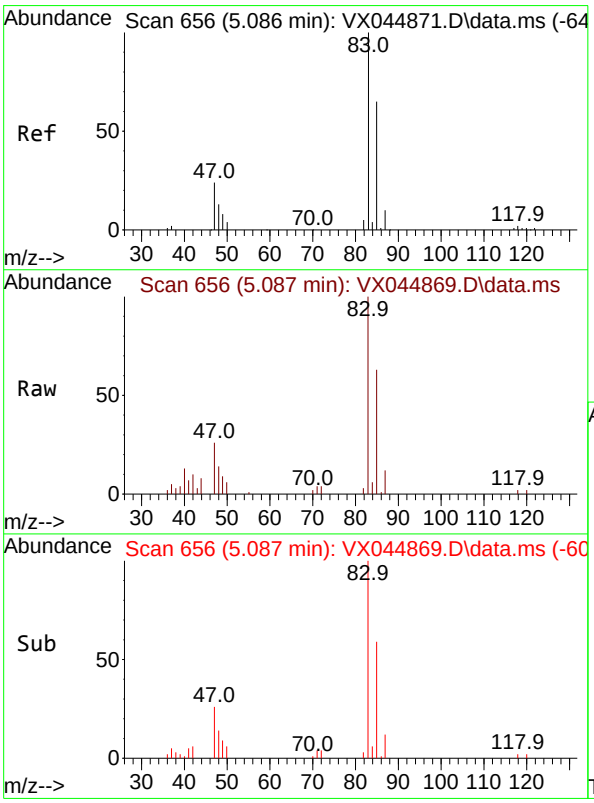
#29
Tetrahydrofuran
Concen: 24.429 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 21097

Ion	Ratio	Lower	Upper
42	100		
72	45.3	35.0	52.4
71	41.6	32.6	48.8

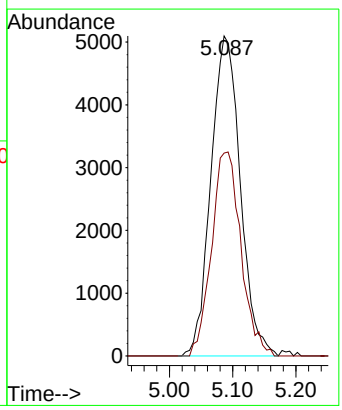


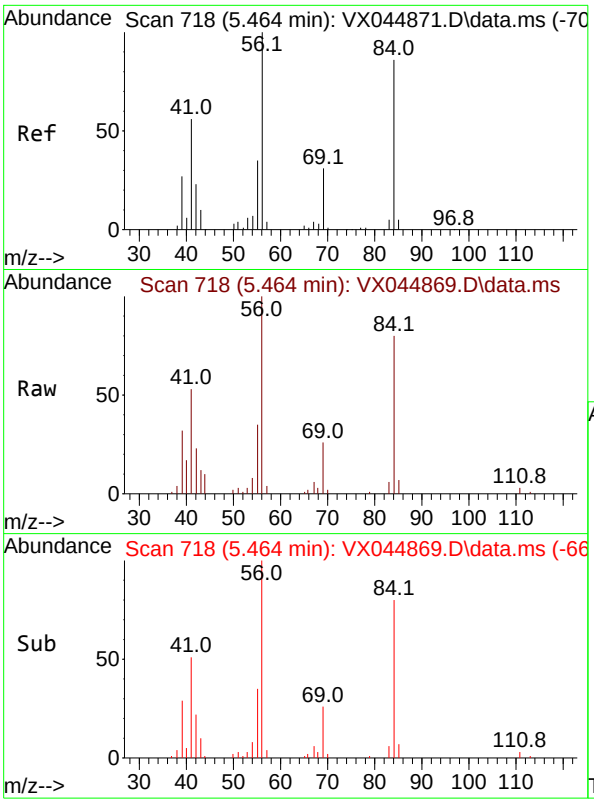


#30
Chloroform
Concen: 5.054 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 83 Resp: 16449

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.1	78.1



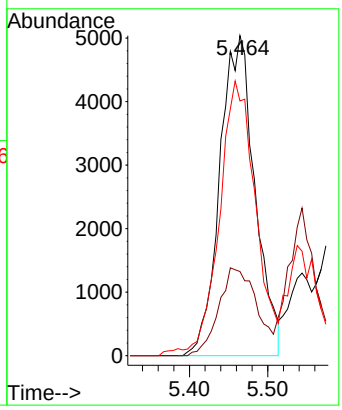


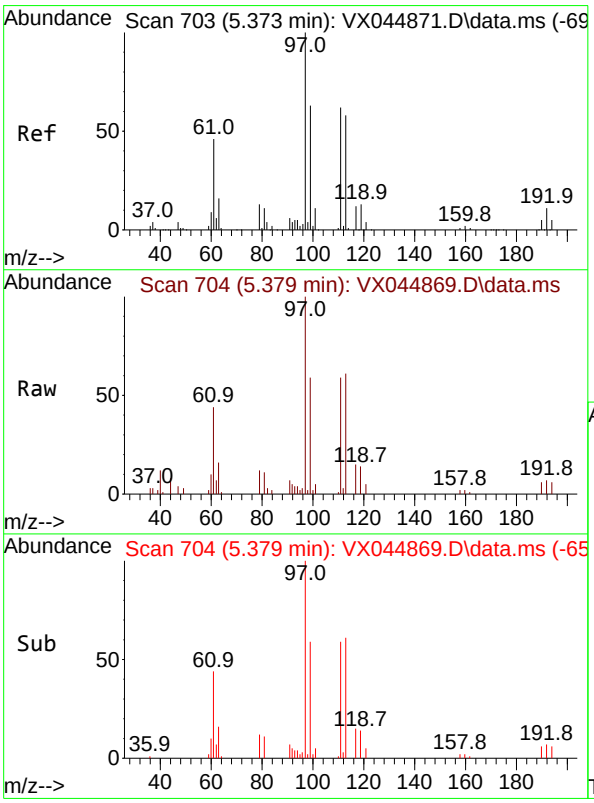
#31
Cyclohexane
Concen: 5.076 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 15705

Ion	Ratio	Lower	Upper
56	100		
69	26.3	24.4	36.6
84	77.4	69.0	103.6

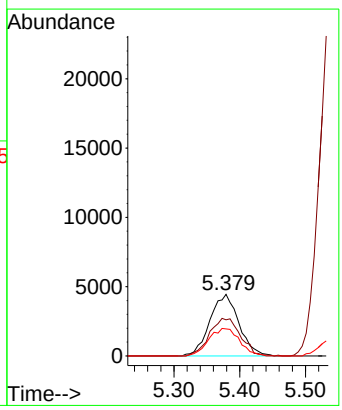


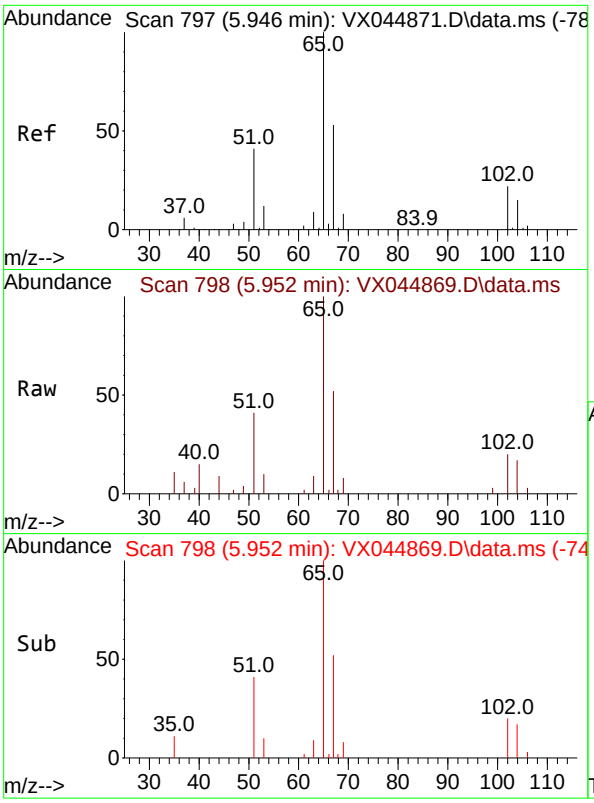


#32
1,1,1-Trichloroethane
Concen: 4.947 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 97 Resp: 13658

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	47.3	36.6	55.0



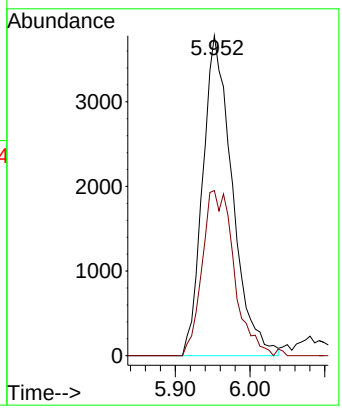


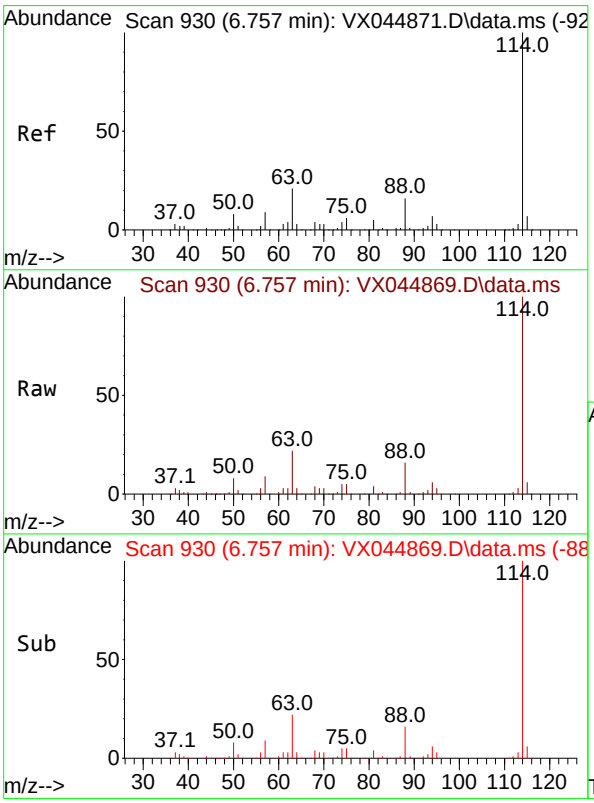
#33
1,2-Dichloroethane-d4
Concen: 5.219 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 10397

Ion	Ratio	Lower	Upper
65	100		
67	55.6	0.0	108.2

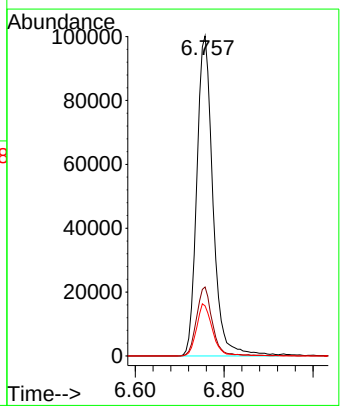


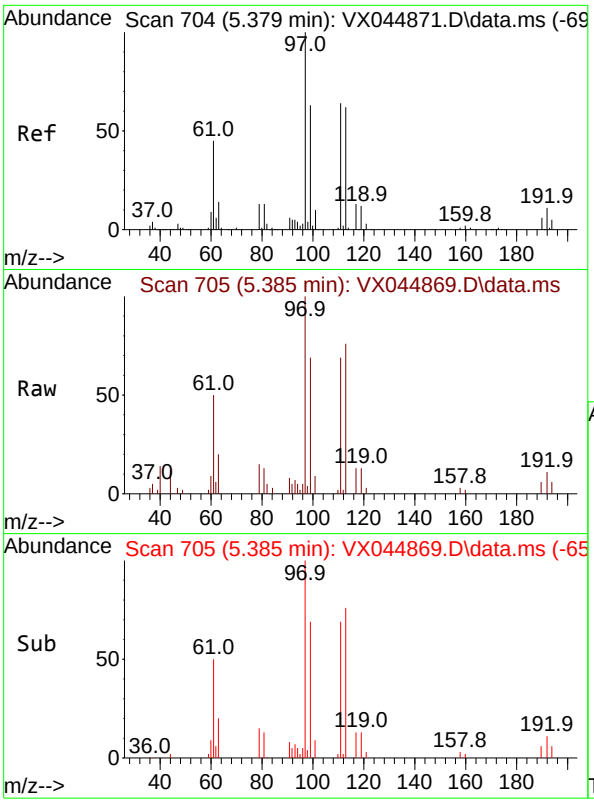


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:114 Resp: 253314

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	42.4
88	15.6	0.0	31.4



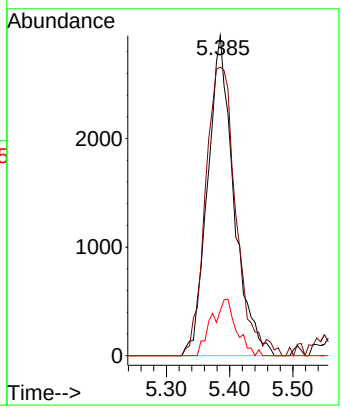


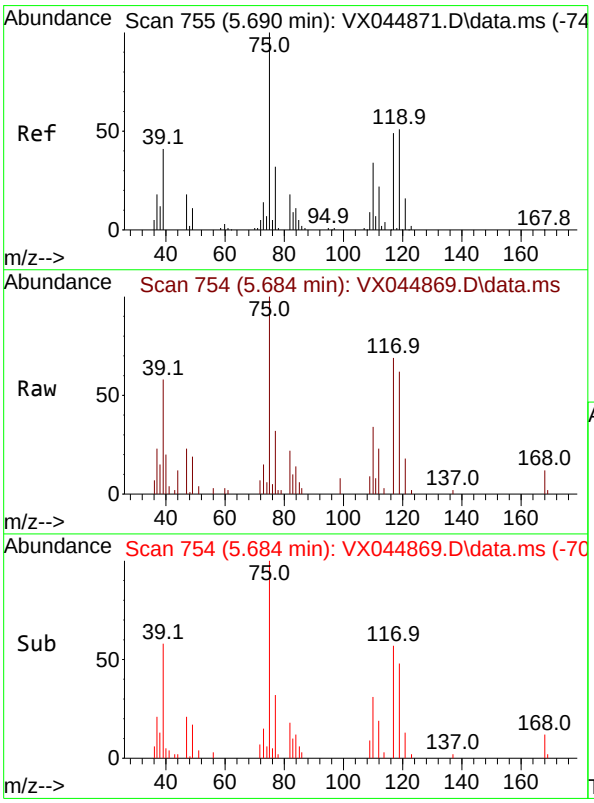
#35
Dibromofluoromethane
Concen: 5.150 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 8482

Ion	Ratio	Lower	Upper
113	100		
111	104.6	83.5	125.3
192	16.7	14.4	21.6

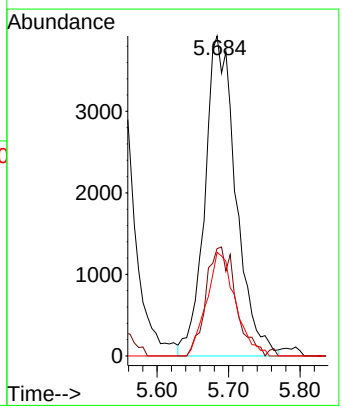


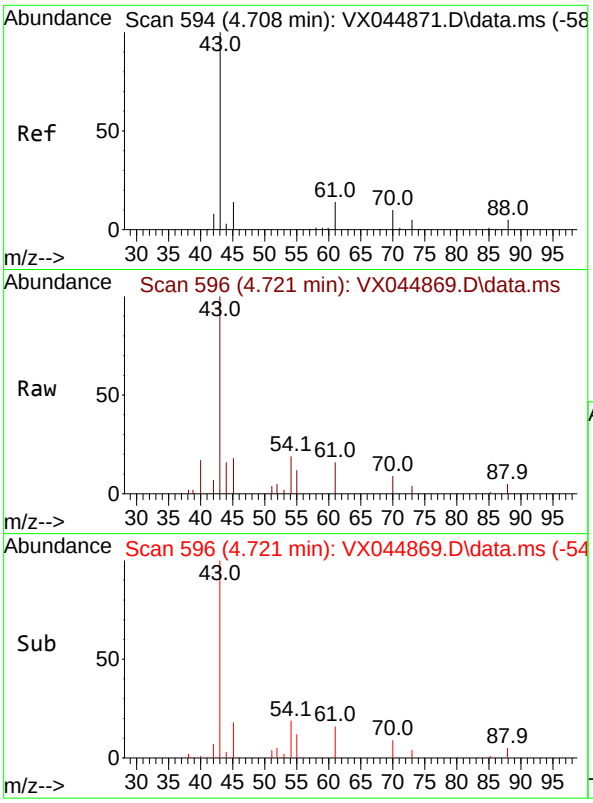


#36
1,1-Dichloropropene
Concen: 4.981 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 11835

Ion	Ratio	Lower	Upper
75	100		
110	32.4	17.2	51.6
77	30.0	24.6	37.0



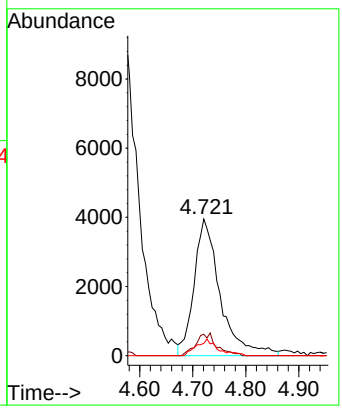


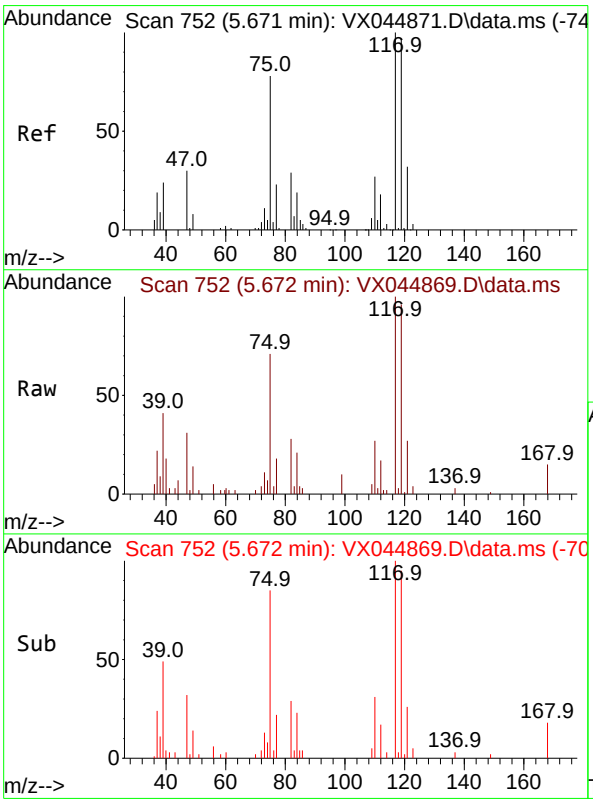
#37
Ethyl Acetate
Concen: 5.119 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 13530

Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.0	16.4
70	9.8	8.2	12.2

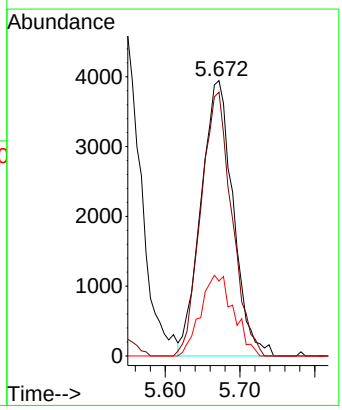


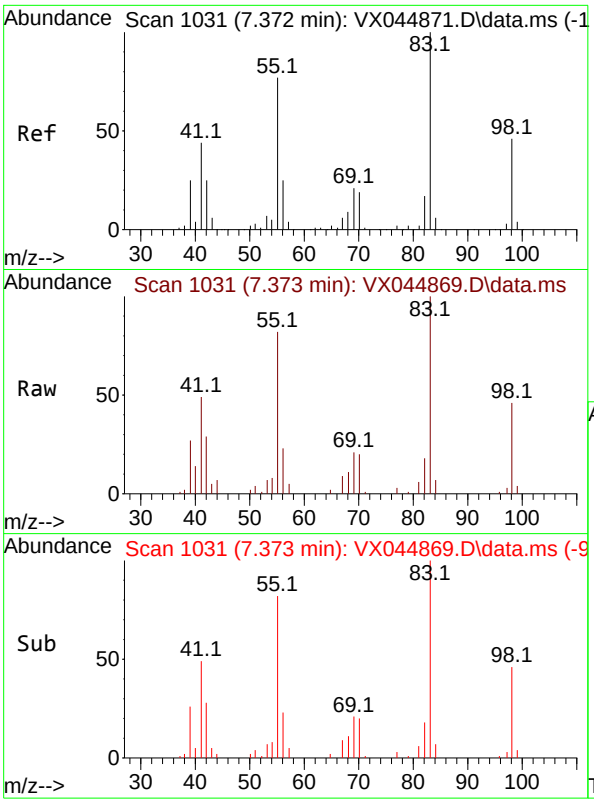


#38
Carbon Tetrachloride
Concen: 5.066 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 11797

Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.5	116.3
121	27.2	25.6	38.4



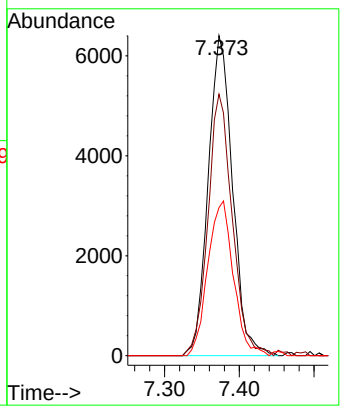


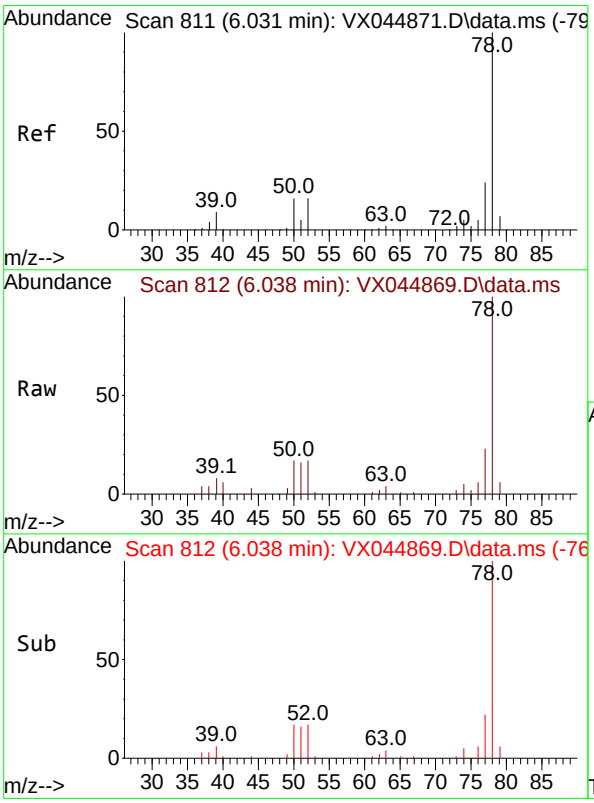
#39
Methylcyclohexane
Concen: 4.711 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 14472

Ion	Ratio	Lower	Upper
83	100		
55	81.7	61.3	91.9
98	46.3	37.0	55.6

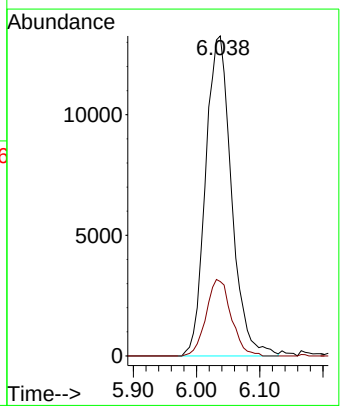


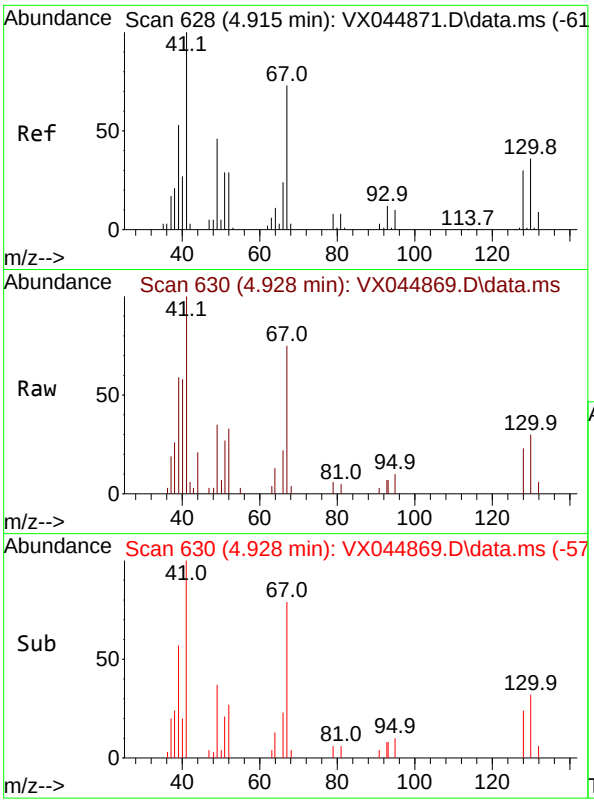


#40
Benzene
Concen: 5.079 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 78 Resp: 37687

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6



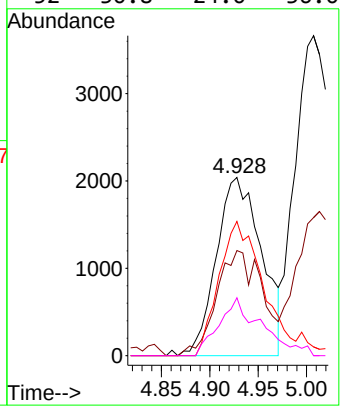


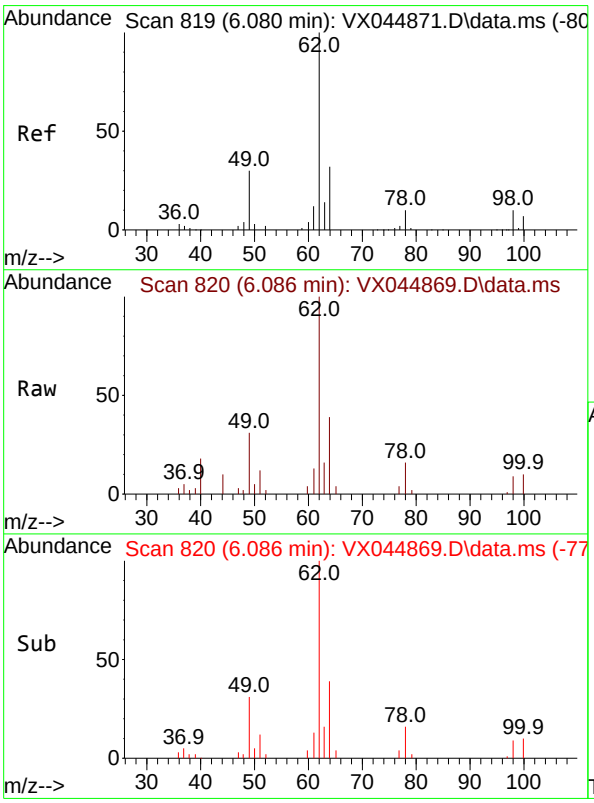
#41
Methacrylonitrile
Concen: 4.699 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 6648

Ion	Ratio	Lower	Upper
41	100		
39	59.4	43.1	64.7
67	72.7	57.0	85.6
52	30.8	24.0	36.0

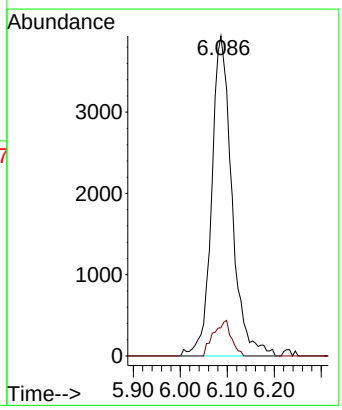


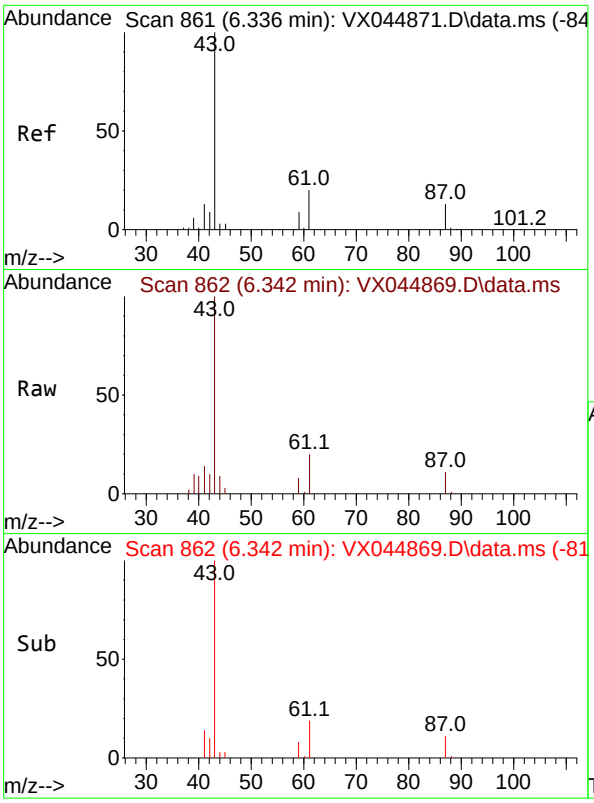


#42
1,2-Dichloroethane
Concen: 4.985 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 62 Resp: 11789

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4



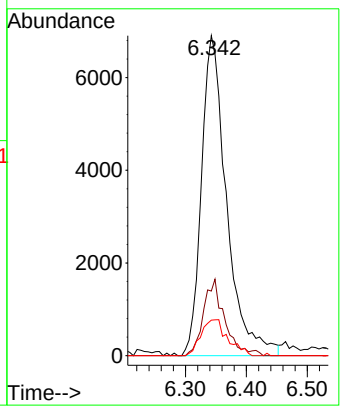


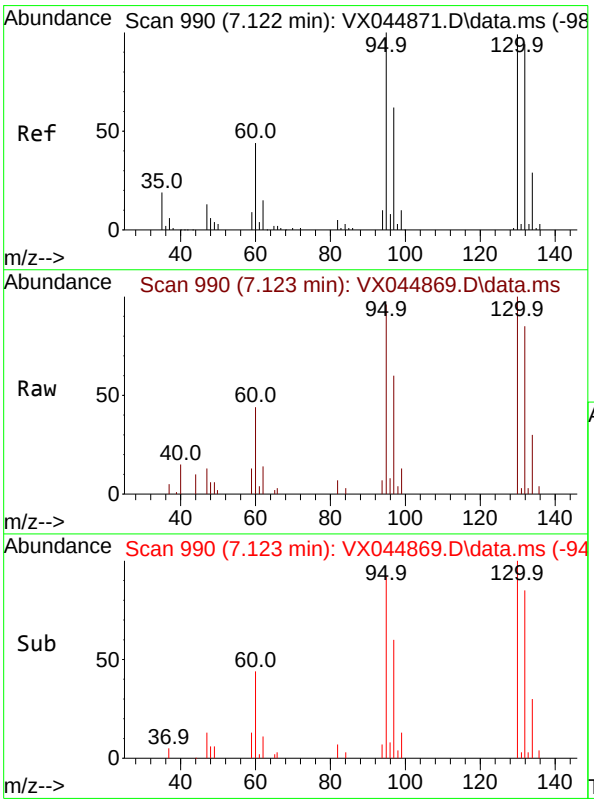
#43
Isopropyl Acetate
Concen: 4.640 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 19803

Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.8	23.8
87	11.9	10.0	15.0

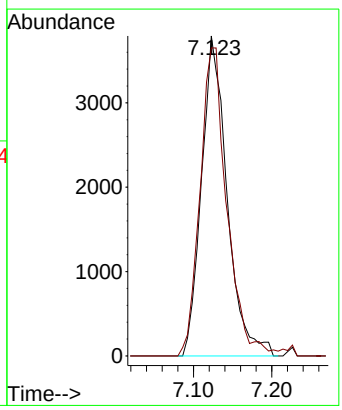


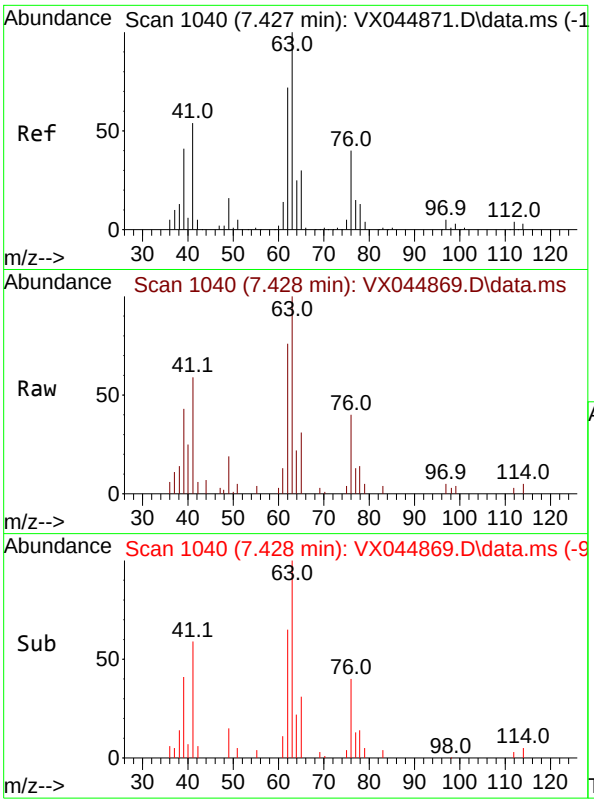


#44
Trichloroethene
Concen: 5.079 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:130 Resp: 8614

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	202.4



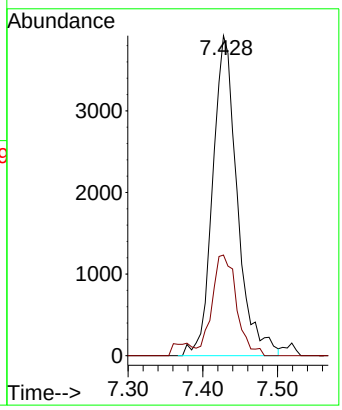


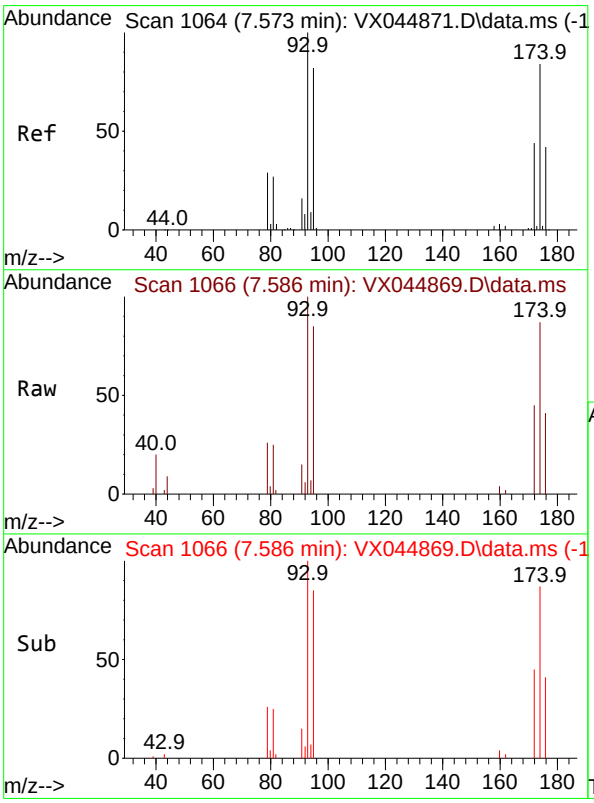
#45
1,2-Dichloropropane
Concen: 4.863 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 8976

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.2	36.4

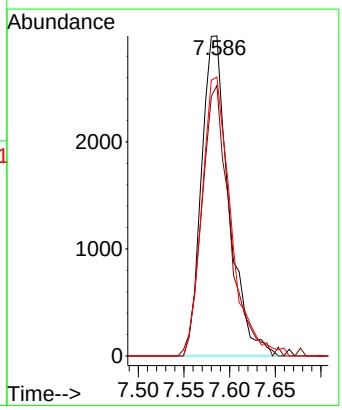


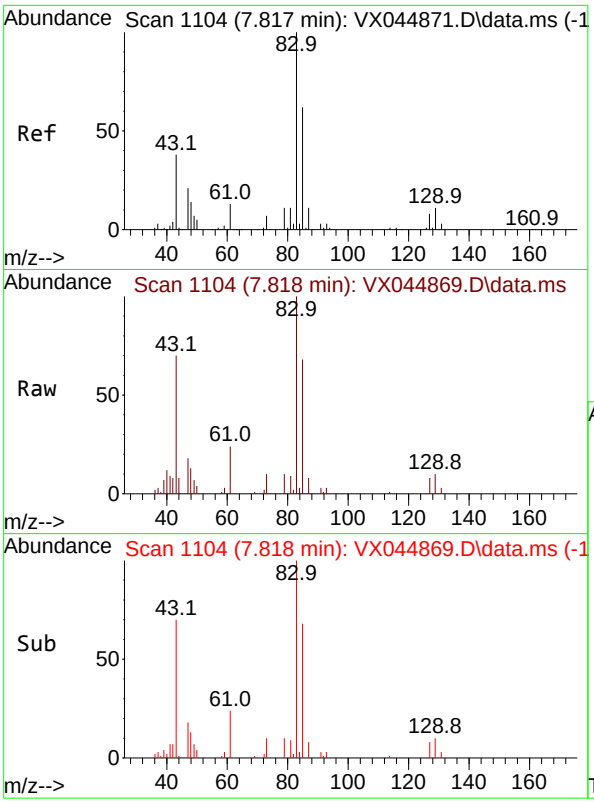


#46
Dibromomethane
Concen: 4.851 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 93 Resp: 6210

Ion	Ratio	Lower	Upper
93	100		
95	86.4	66.2	99.4
174	92.2	69.9	104.9



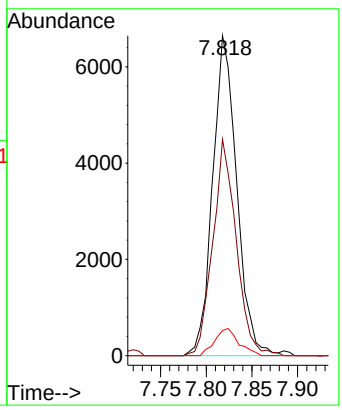


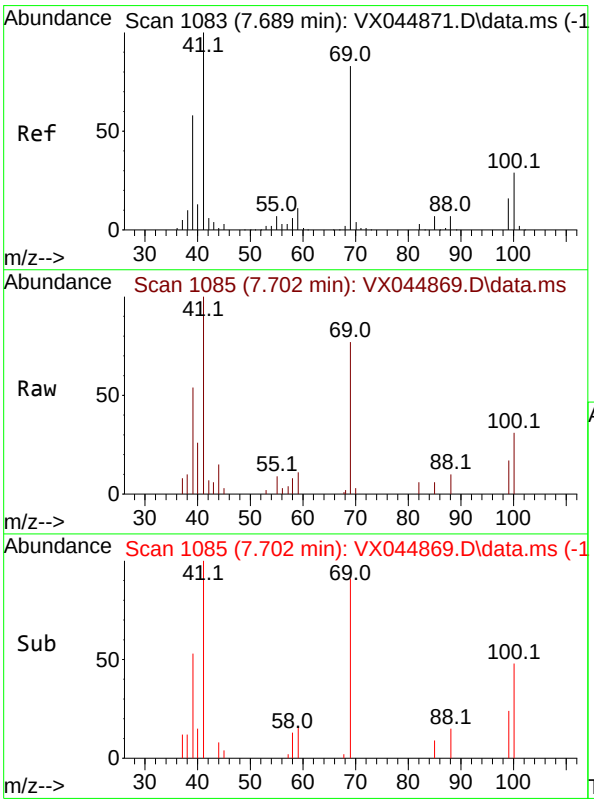
#47
Bromodichloromethane
Concen: 4.911 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 12173

Ion	Ratio	Lower	Upper
83	100		
85	67.6	50.0	75.0
127	7.8	6.4	9.6

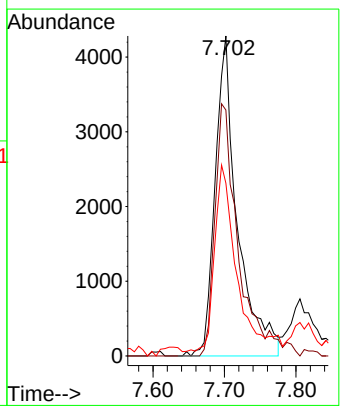


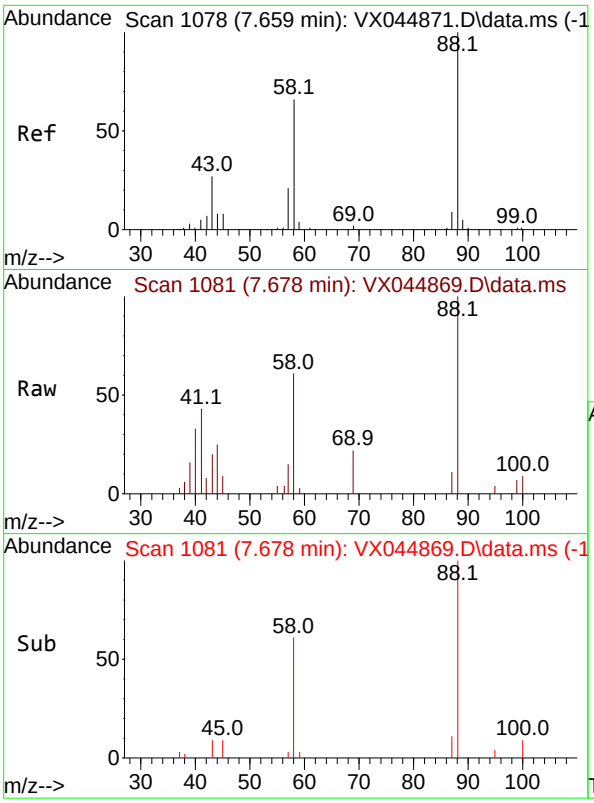


#48
Methyl methacrylate
Concen: 4.620 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.013 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 41 Resp: 9298

Ion	Ratio	Lower	Upper
41	100		
69	83.0	65.8	98.8
39	54.6	46.4	69.6



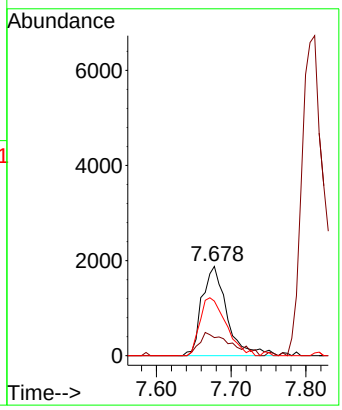


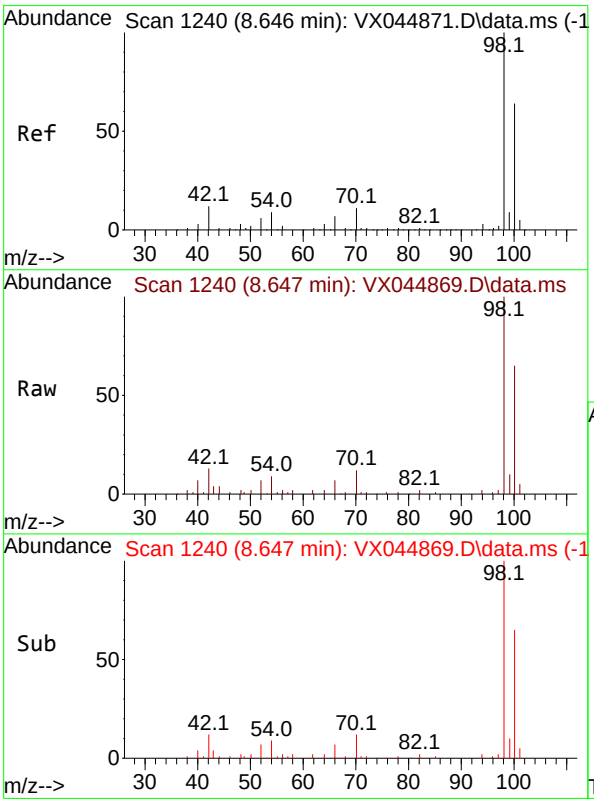
#49
1,4-Dioxane
Concen: 101.099 ug/l
RT: 7.678 min Scan# 1
Delta R.T. 0.019 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 4365

Ion	Ratio	Lower	Upper
88	100		
43	32.3	26.6	39.8
58	67.9	55.9	83.9

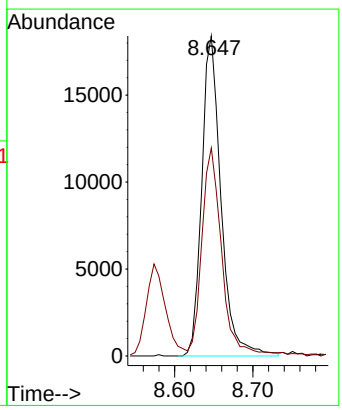


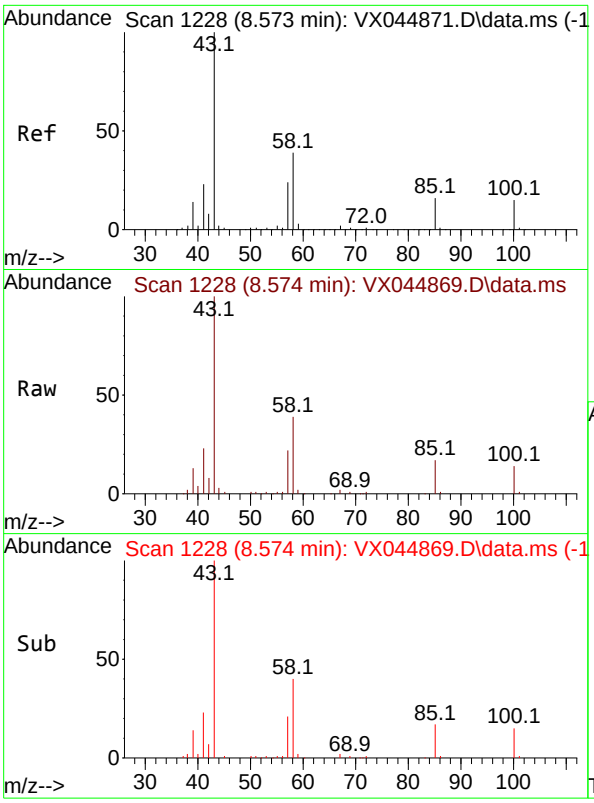


#50
Toluene-d8
Concen: 5.039 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 98 Resp: 31381

Ion	Ratio	Lower	Upper
98	100		
100	67.8	52.7	79.1



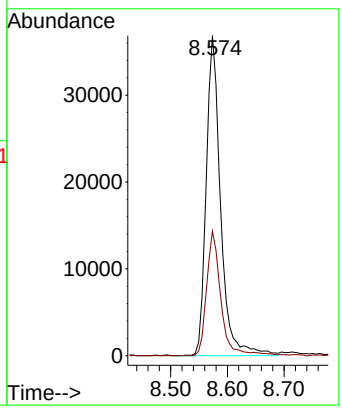


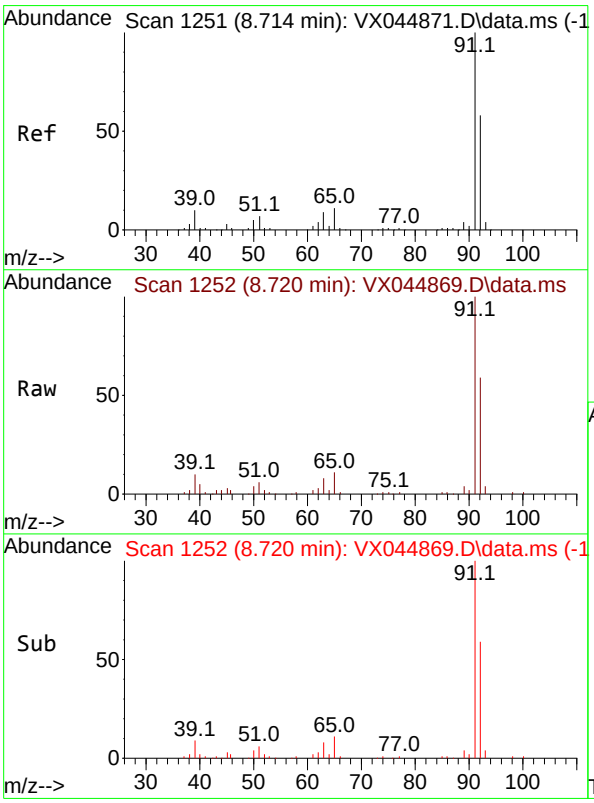
#51
4-Methyl-2-Pentanone
Concen: 25.076 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 65064

Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.8	46.2

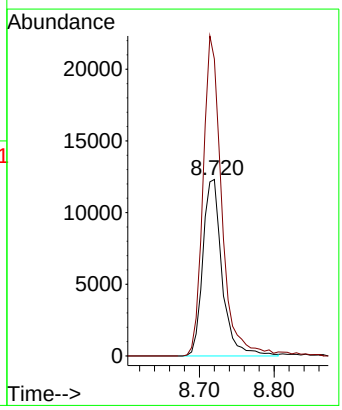


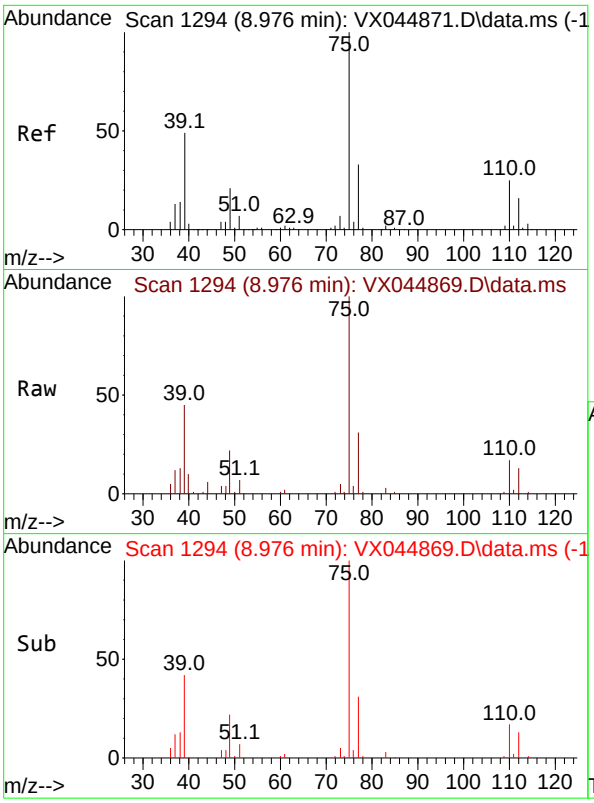


#52
Toluene
Concen: 4.999 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 92 Resp: 22090

Ion	Ratio	Lower	Upper
92	100		
91	177.1	137.4	206.2



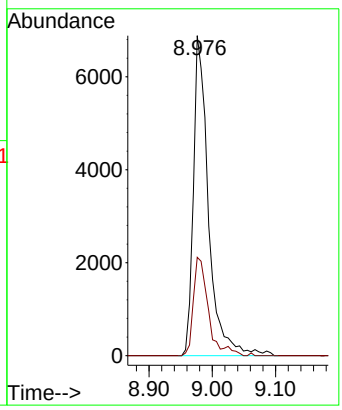


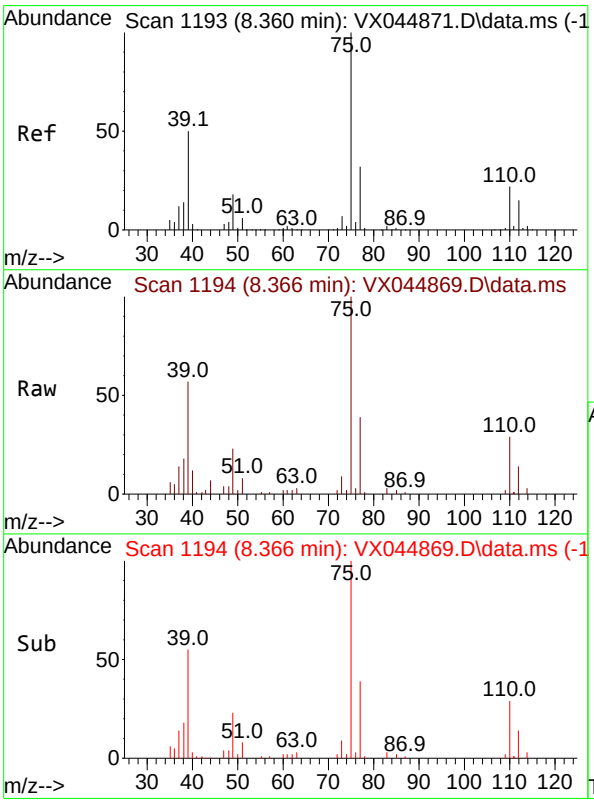
#53
t-1,3-Dichloropropene
Concen: 4.550 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 11413

Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.0	39.0

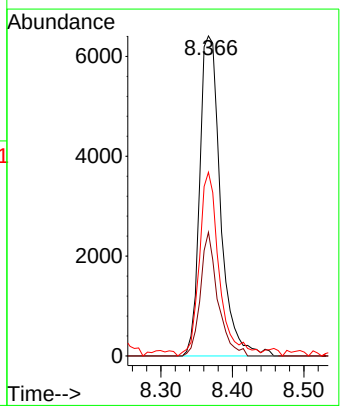


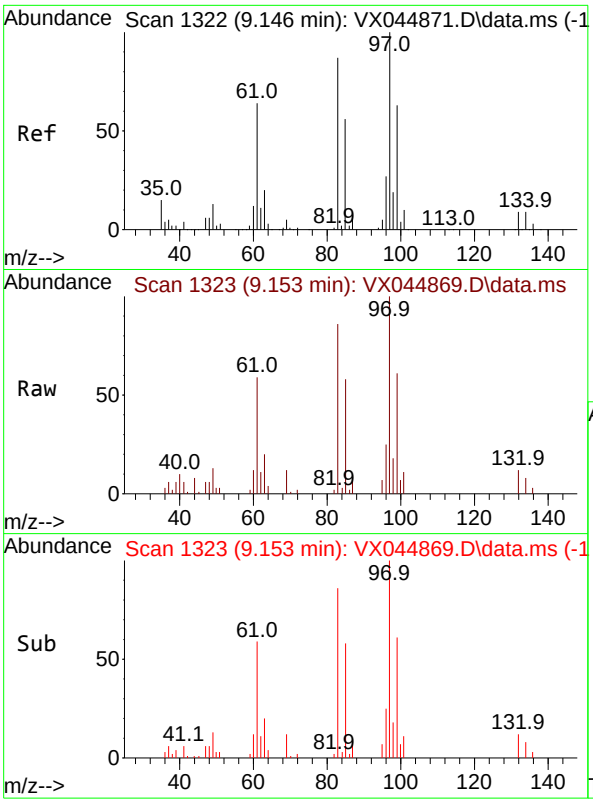


#54
cis-1,3-Dichloropropene
Concen: 4.628 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 12943

Ion	Ratio	Lower	Upper
75	100		
77	38.7	25.3	37.9#
39	57.4	40.0	60.0



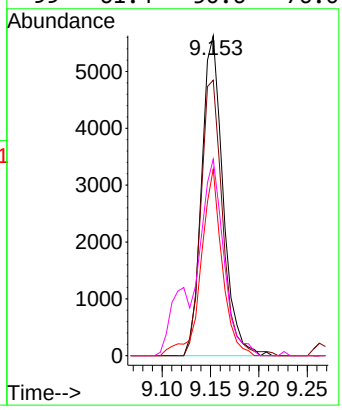


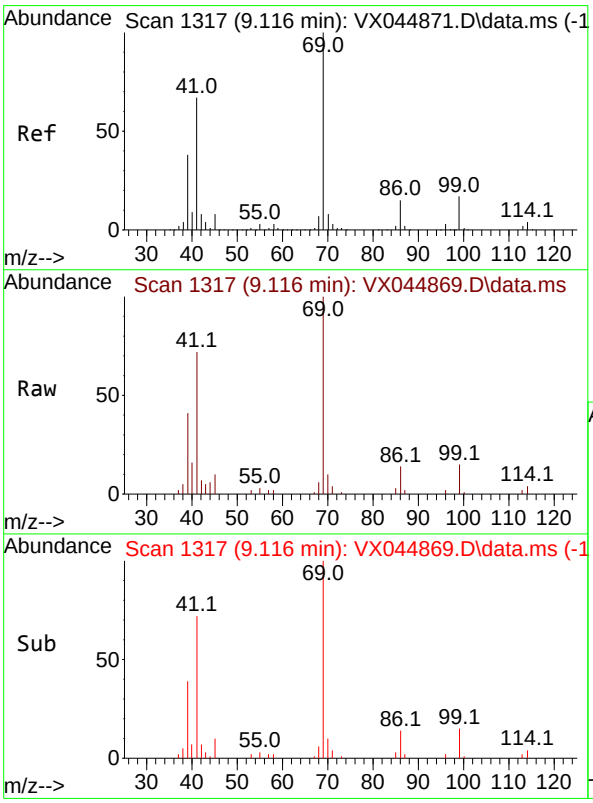
#55
1,1,2-Trichloroethane
Concen: 5.099 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 8662

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.8	104.6
85	58.3	44.8	67.2
99	61.4	50.6	76.0

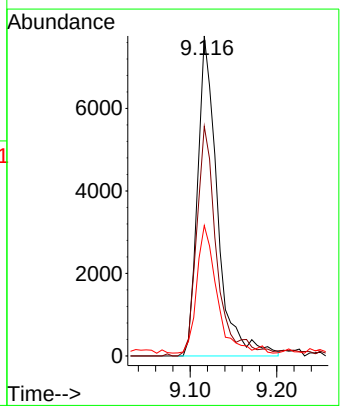


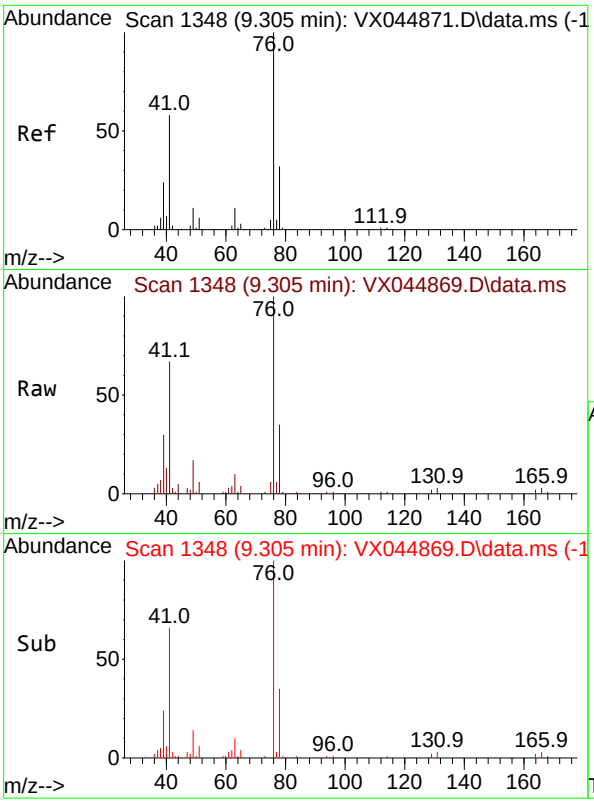


#56
Ethyl methacrylate
Concen: 4.502 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 69 Resp: 12351

Ion	Ratio	Lower	Upper
69	100		
41	73.0	55.2	82.8
39	39.5	30.8	46.2



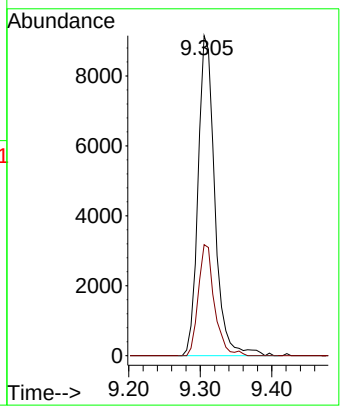


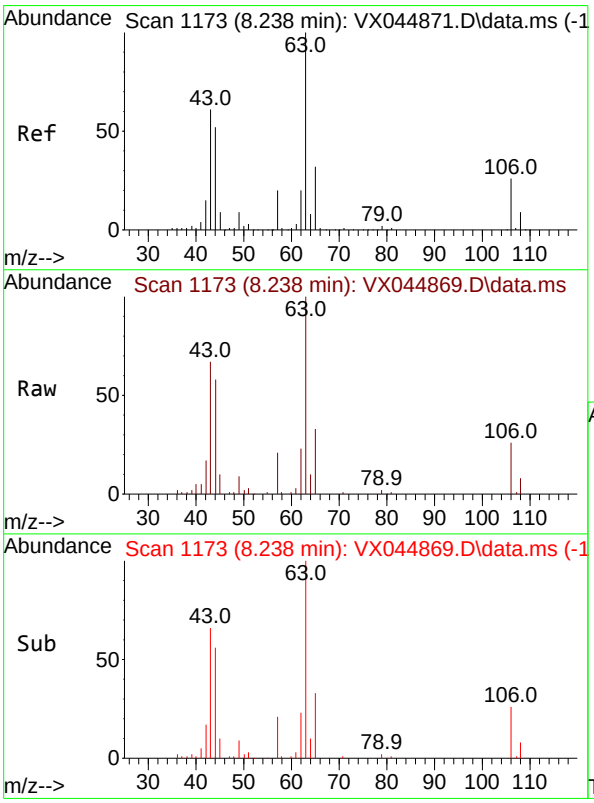
#57
1,3-Dichloropropane
Concen: 4.993 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 14839

Ion	Ratio	Lower	Upper
76	100		
78	33.4	25.8	38.8

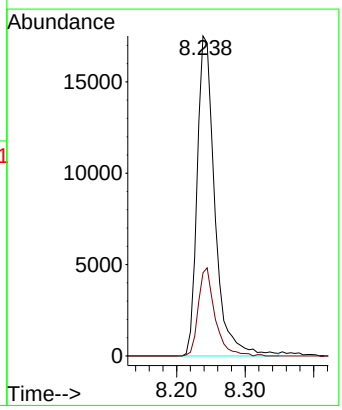


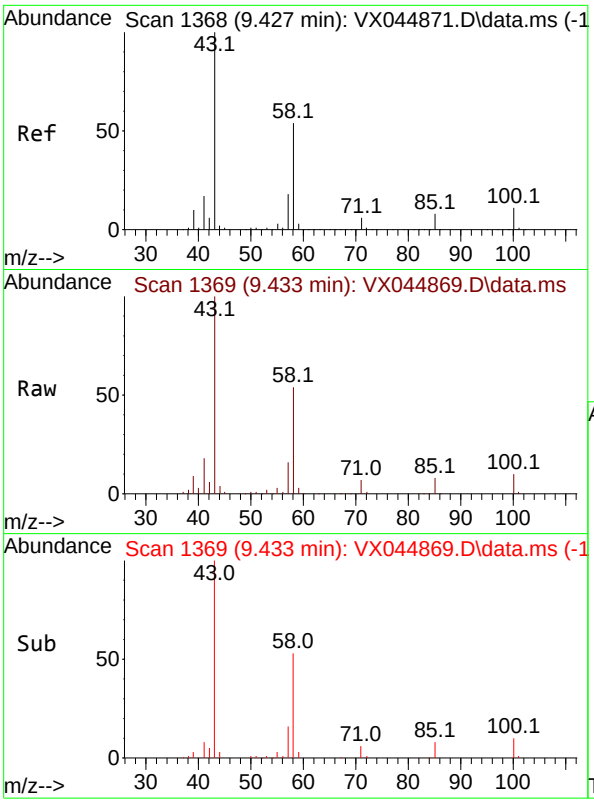


#58
2-Chloroethyl Vinyl ether
Concen: 23.382 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 63 Resp: 31498

Ion	Ratio	Lower	Upper
63	100		
106	25.8	21.3	31.9



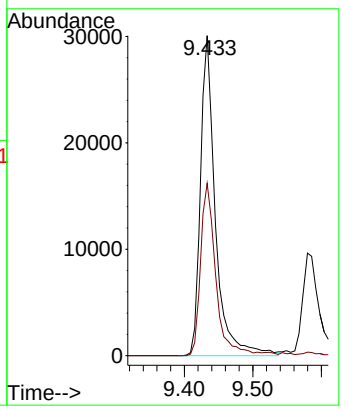


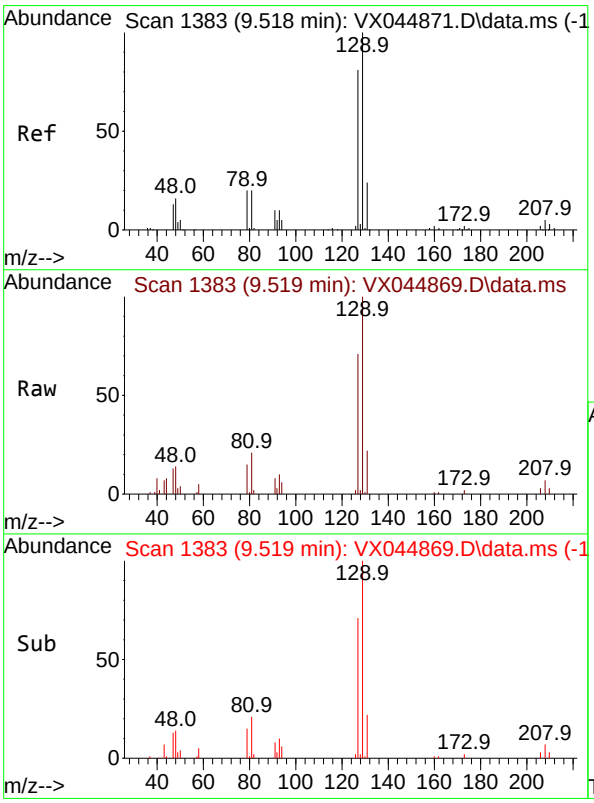
#59
2-Hexanone
Concen: 24.359 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 45538

Ion	Ratio	Lower	Upper
43	100		
58	55.5	27.5	82.4

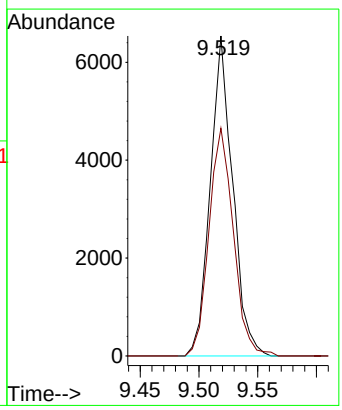


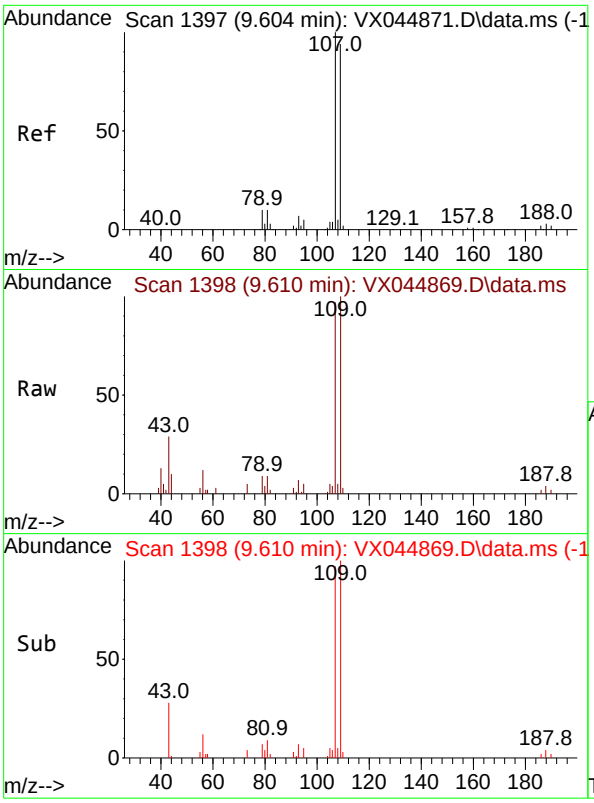


#60
Dibromochloromethane
Concen: 4.771 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:129 Resp: 8668

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.3



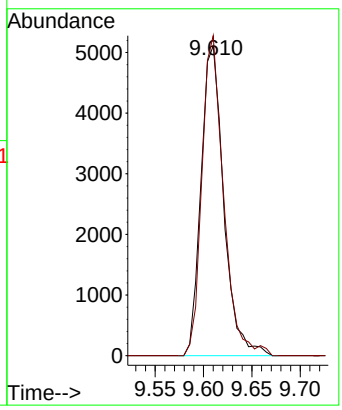


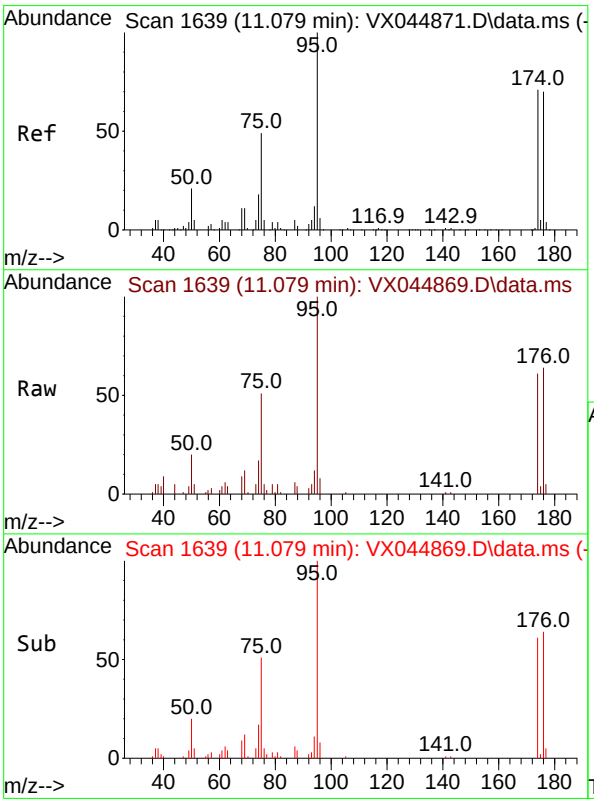
#61
1,2-Dibromoethane
Concen: 4.852 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 8353

Ion	Ratio	Lower	Upper
107	100		
109	98.8	75.9	113.9

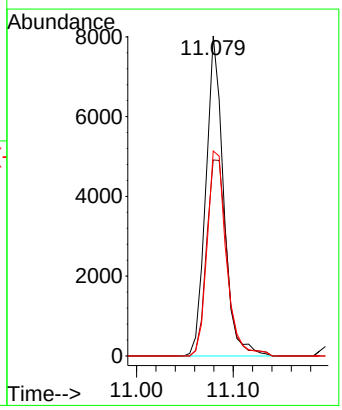


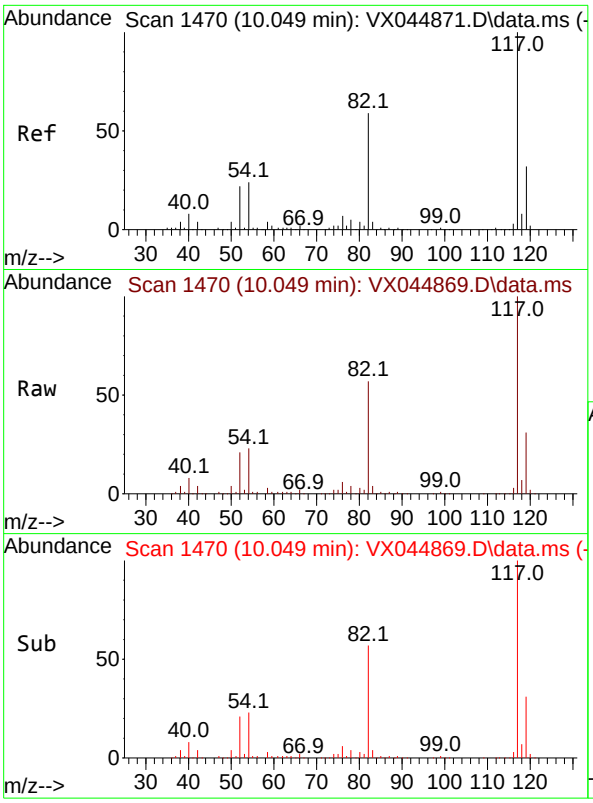


#62
4-Bromofluorobenzene
Concen: 4.872 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 95 Resp: 10229

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	142.6
176	69.3	0.0	141.6



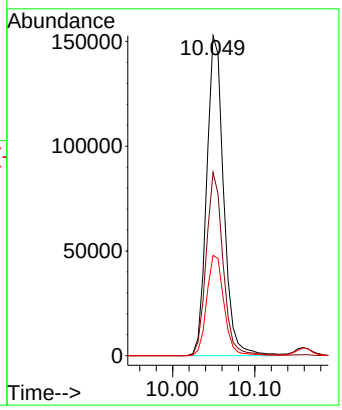


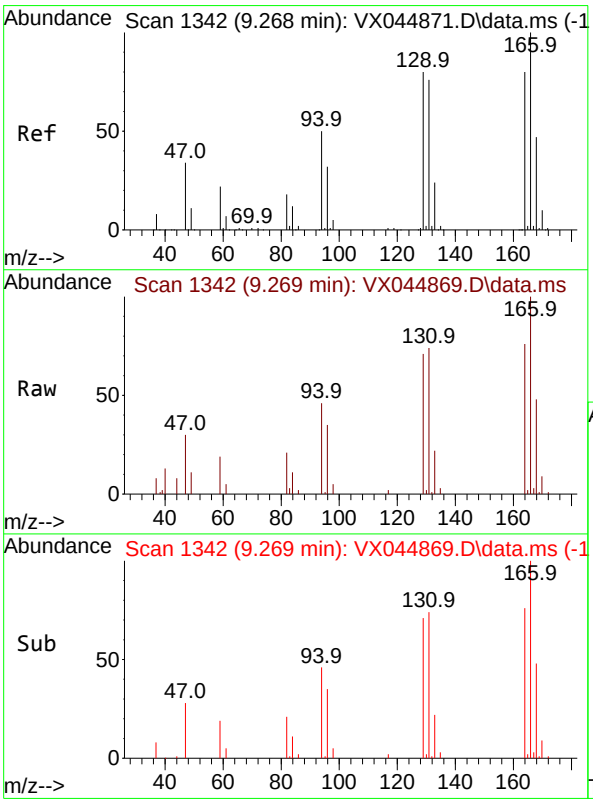
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 218625

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.5	71.3
119	31.4	25.4	38.0

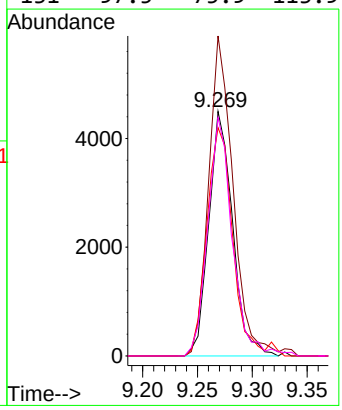


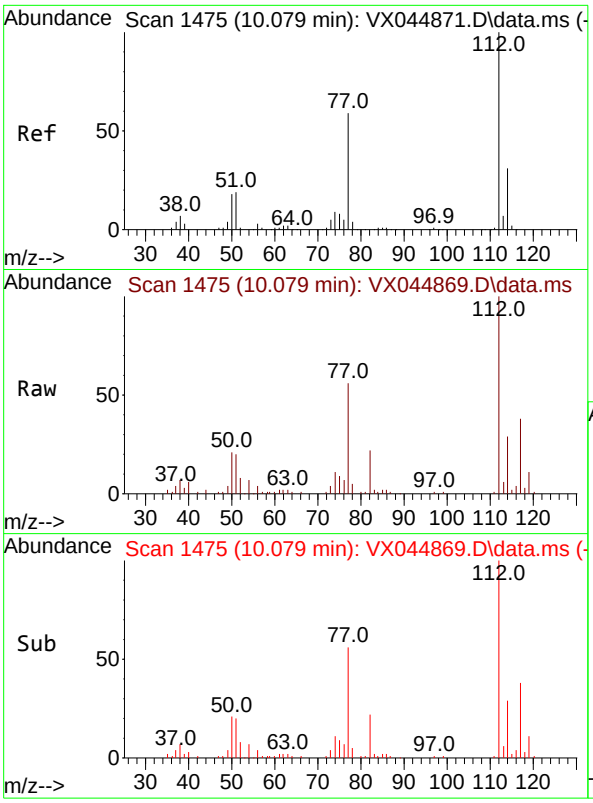


#64
Tetrachloroethene
Concen: 4.934 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:164 Resp: 6803

Ion	Ratio	Lower	Upper
164	100		
166	130.9	100.4	150.6
129	93.4	79.9	119.9
131	97.5	75.9	113.9



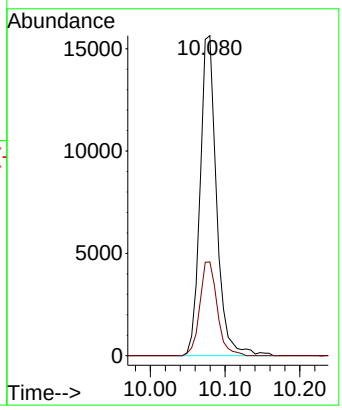


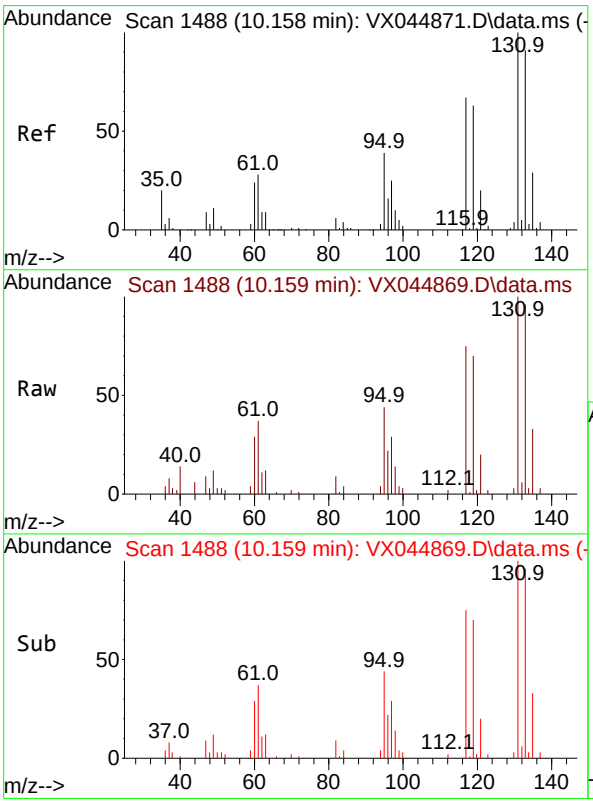
#65
Chlorobenzene
Concen: 5.090 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 23903

Ion	Ratio	Lower	Upper
112	100		
114	29.3	25.0	37.6

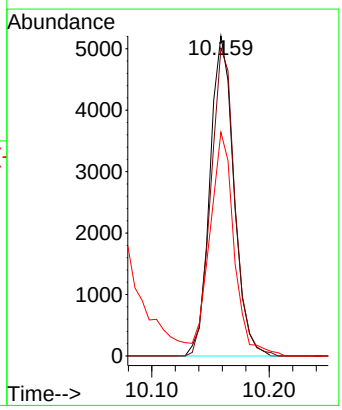


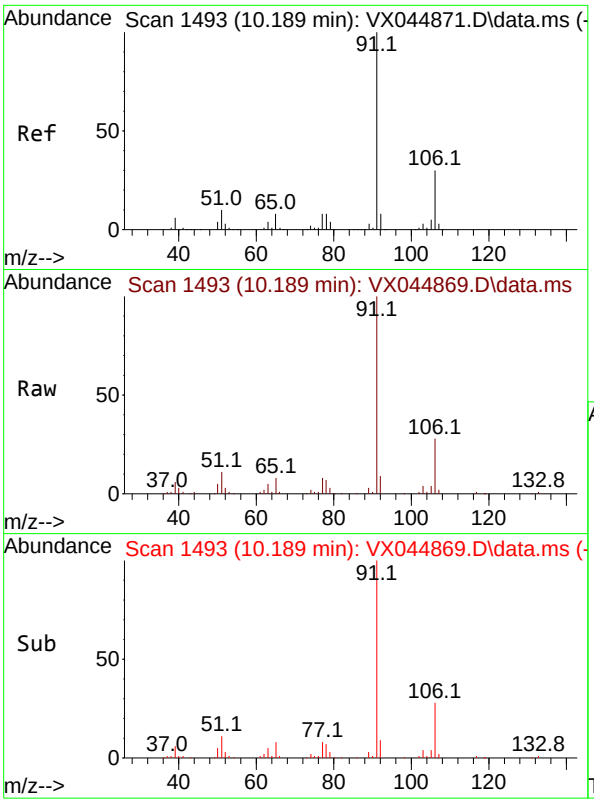


#66
1,1,1,2-Tetrachloroethane
Concen: 4.883 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:131 Resp: 7380

Ion	Ratio	Lower	Upper
131	100		
133	96.2	47.1	141.3
119	70.5	33.6	100.6



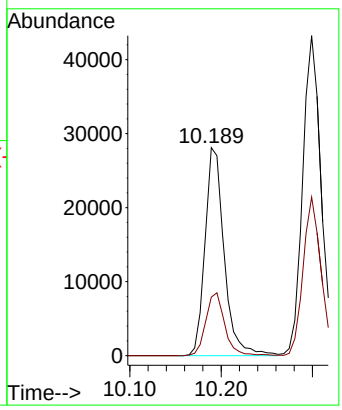


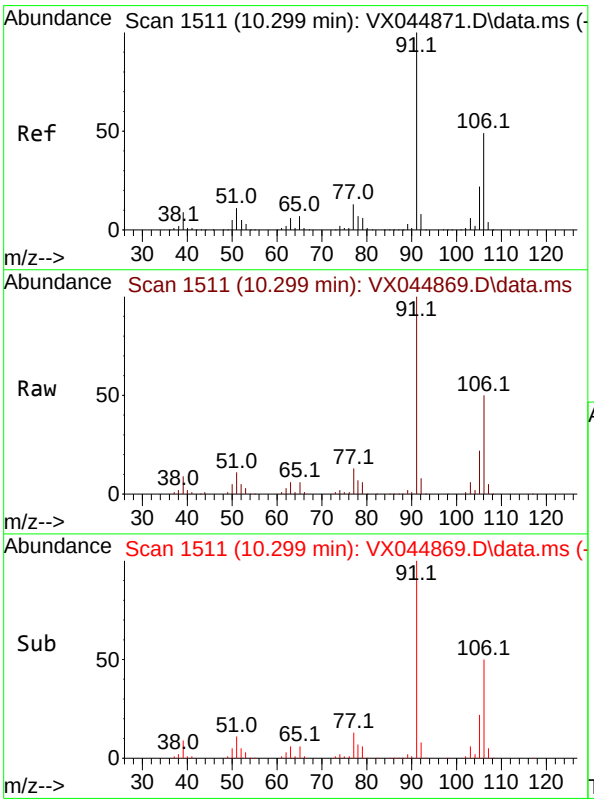
#67
Ethyl Benzene
Concen: 4.941 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 40945

Ion	Ratio	Lower	Upper
91	100		
106	28.1	23.9	35.9

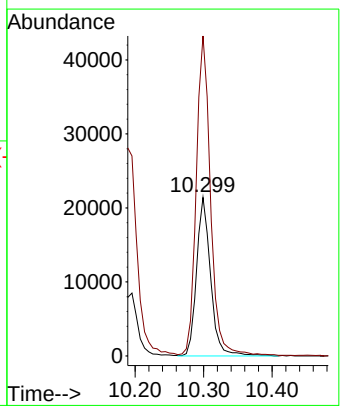


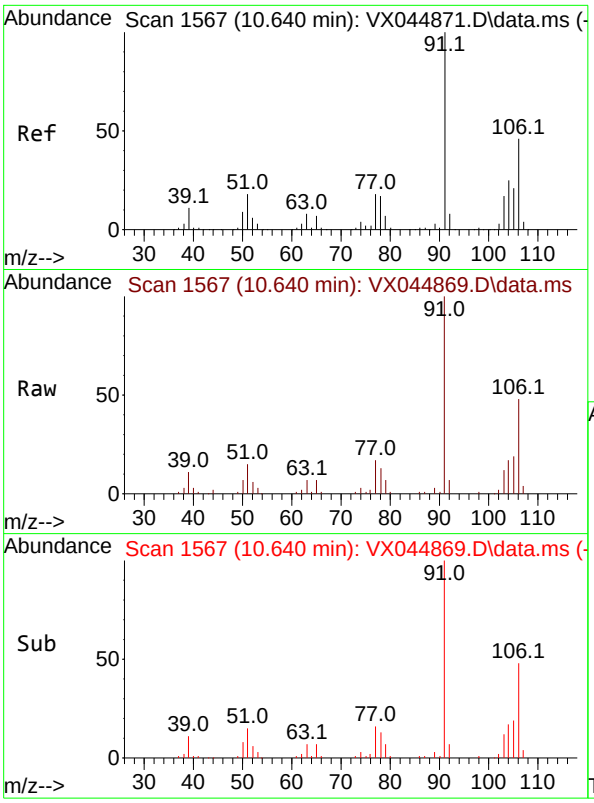


#68
m/p-Xylenes
Concen: 10.019 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:106 Resp: 30627

Ion	Ratio	Lower	Upper
106	100		
91	204.6	164.3	246.5



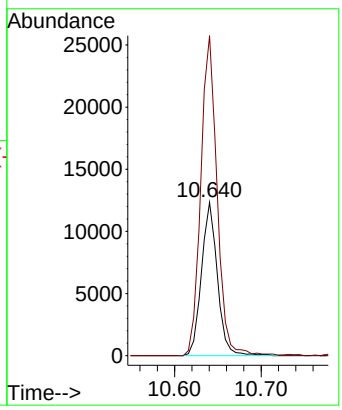


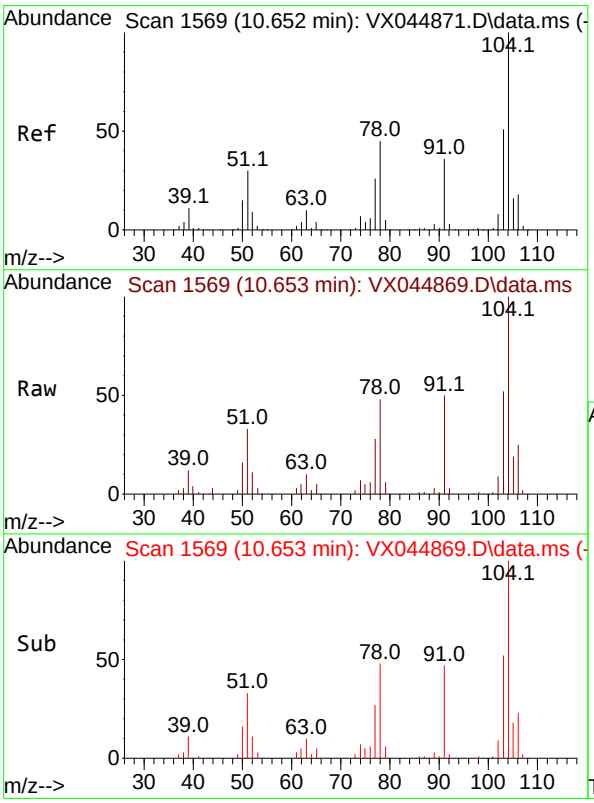
#69
o-Xylene
Concen: 5.139 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 15761

Ion	Ratio	Lower	Upper
106	100		
91	213.9	108.5	325.5

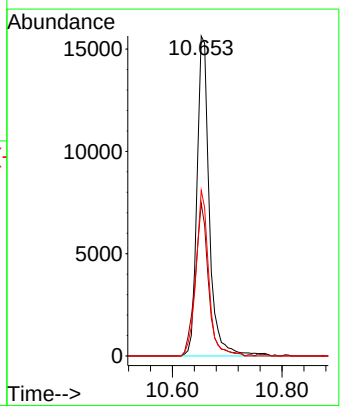


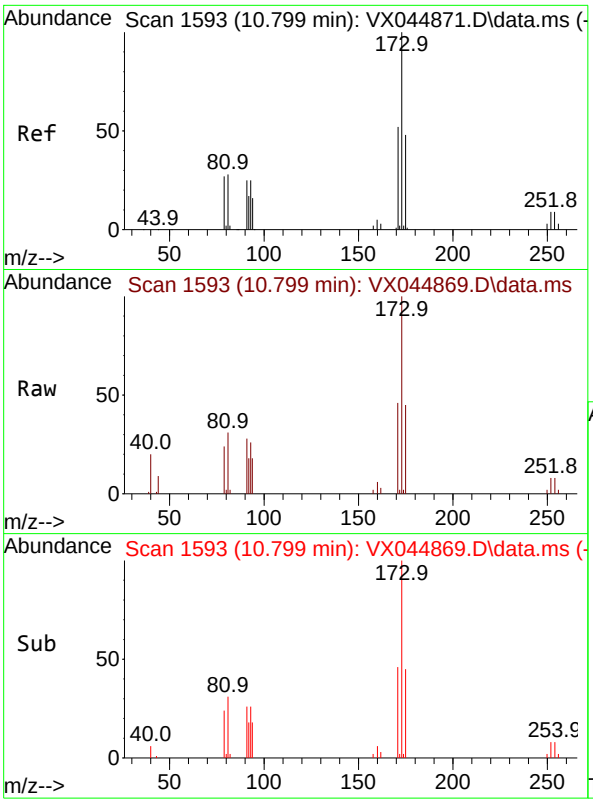


#70
Styrene
Concen: 4.973 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:104 Resp: 24576

Ion	Ratio	Lower	Upper
104	100		
78	51.3	40.5	60.7
103	53.4	43.6	65.4



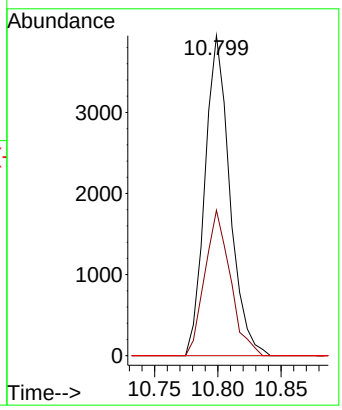


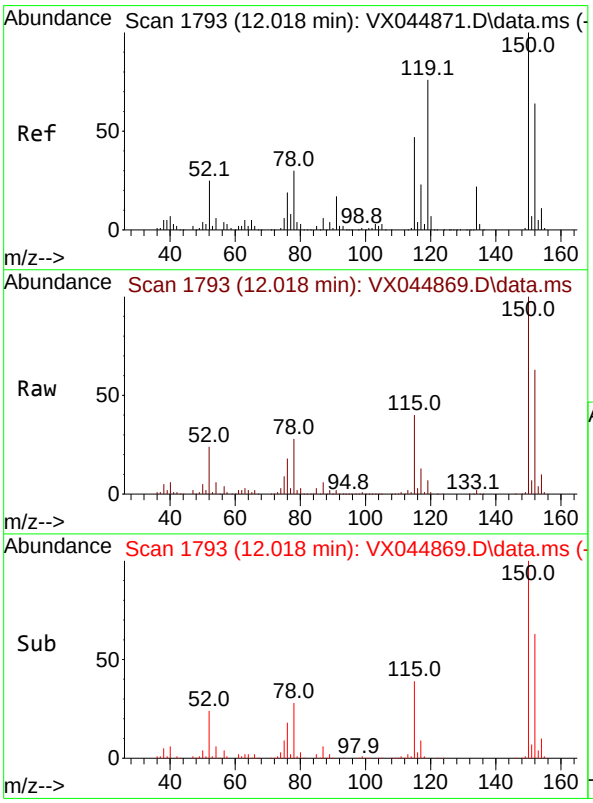
#71
Bromoform
Concen: 4.779 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 5391

Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.3	72.8
254	0.0	0.0	0.0

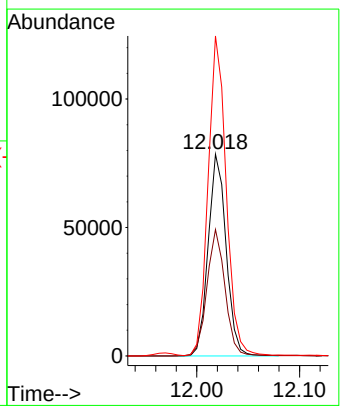


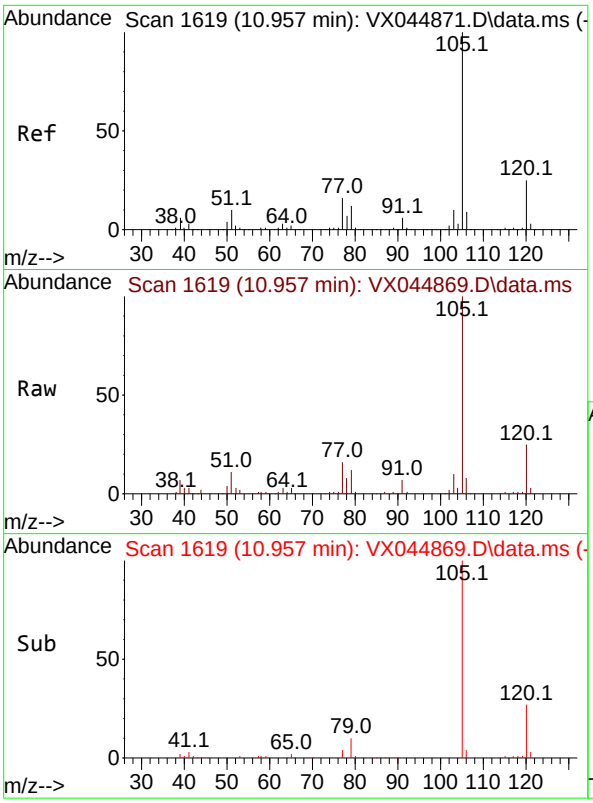


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:152 Resp: 95494

Ion	Ratio	Lower	Upper
152	100		
115	63.3	43.4	130.1
150	159.0	0.0	350.4



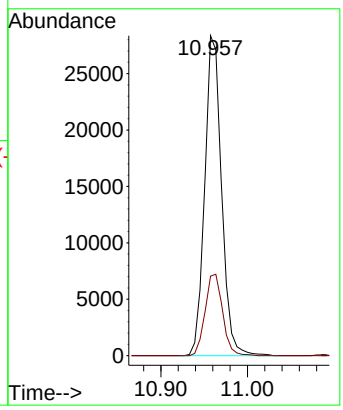


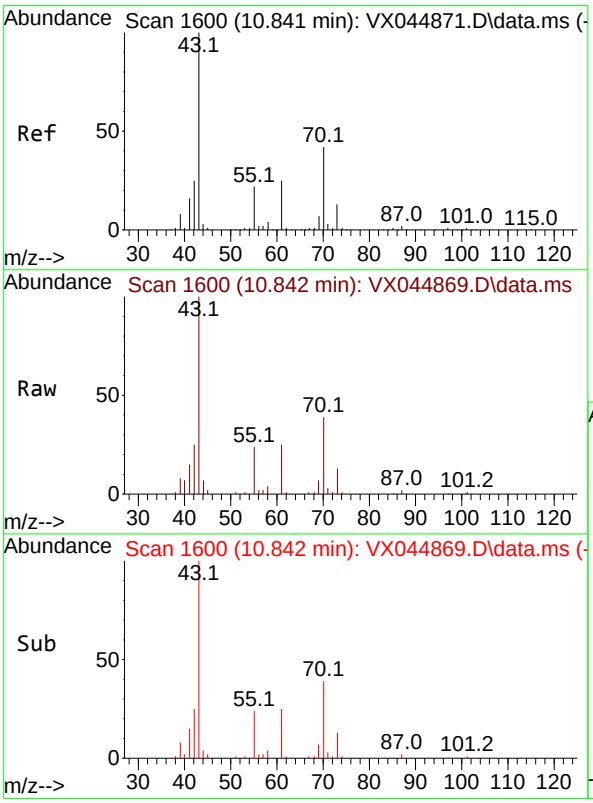
#73
Isopropylbenzene
Concen: 4.983 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 38315

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.5

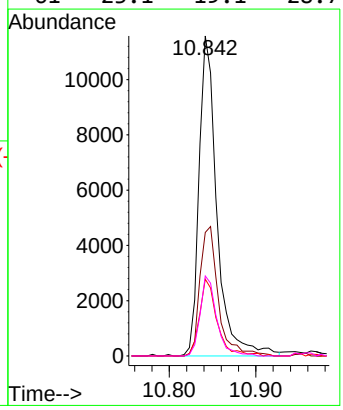


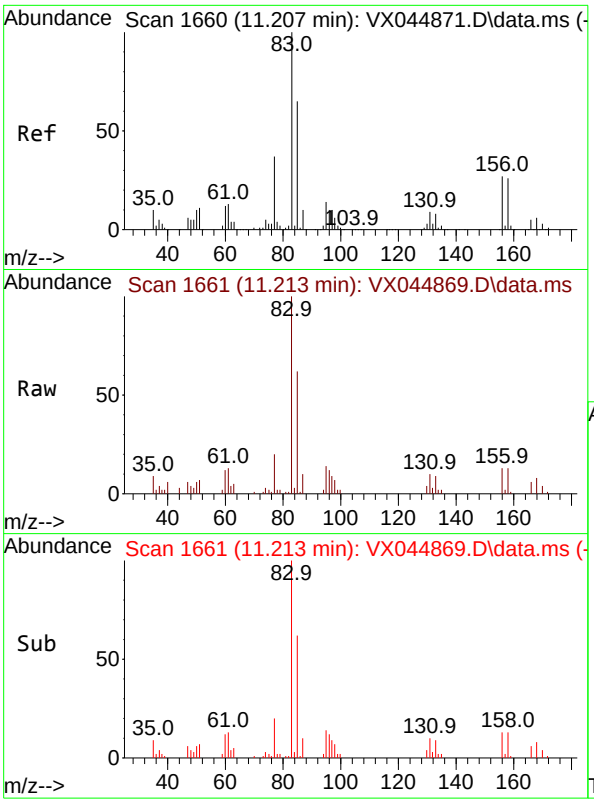


#74
N-amyl acetate
Concen: 4.786 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 43 Resp: 16653

Ion	Ratio	Lower	Upper
43	100		
70	41.5	33.7	50.5
55	23.5	18.6	27.8
61	23.1	19.1	28.7



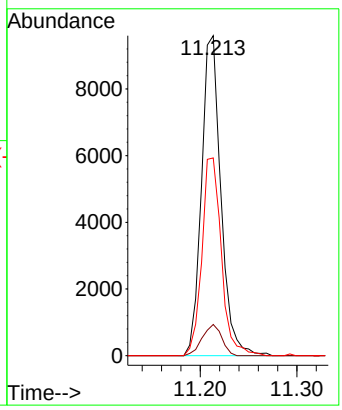


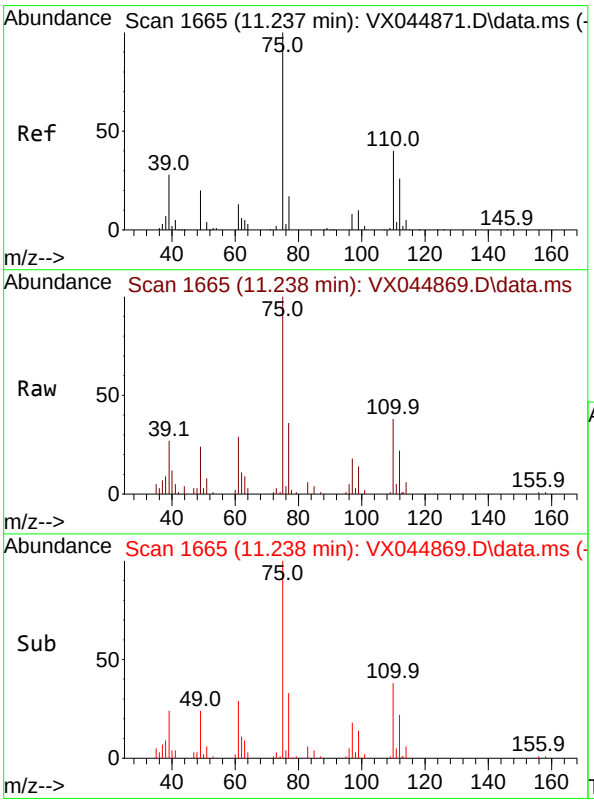
#75
1,1,2,2-Tetrachloroethane
Concen: 5.069 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 13394

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.5
85	62.1	32.3	96.8

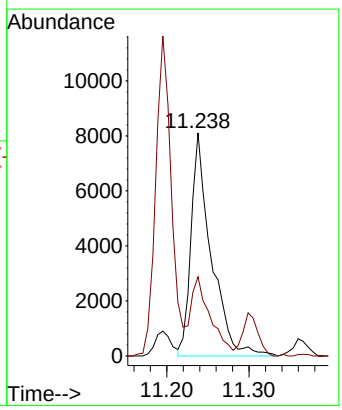


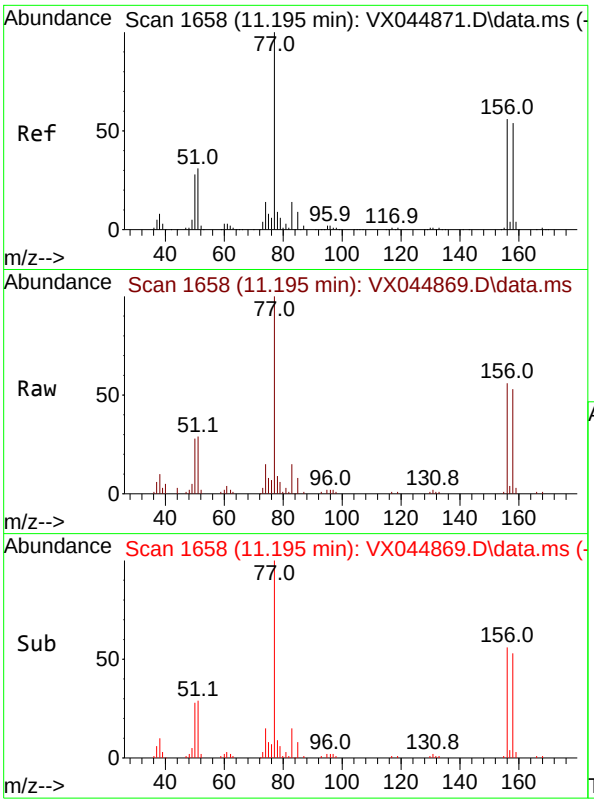


#76
1,2,3-Trichloropropane
Concen: 6.498 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 13757

Ion	Ratio	Lower	Upper
75	100		
77	35.3	21.9	65.7



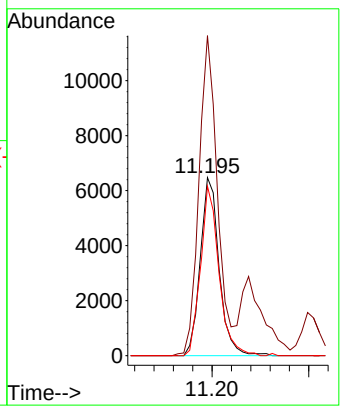


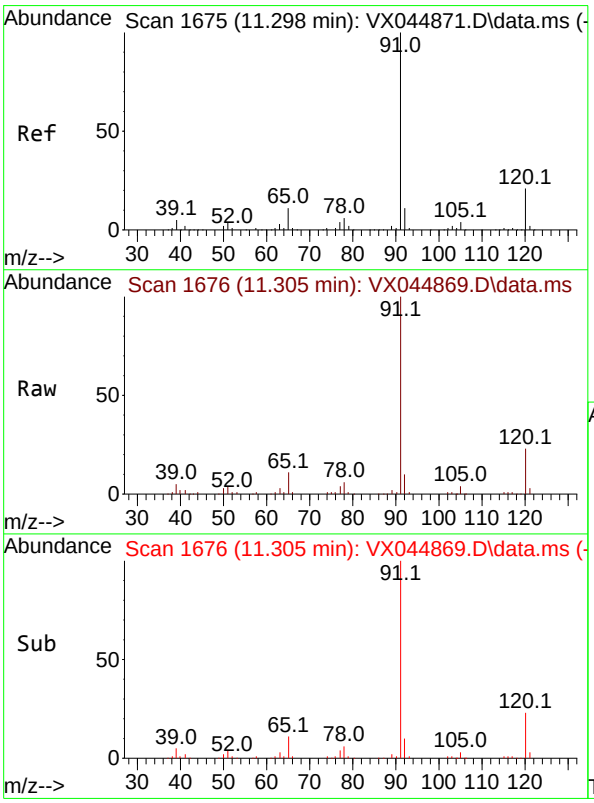
#77
Bromobenzene
Concen: 5.042 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 8789

Ion	Ratio	Lower	Upper
156	100		
77	174.1	88.4	265.3
158	92.9	48.4	145.2

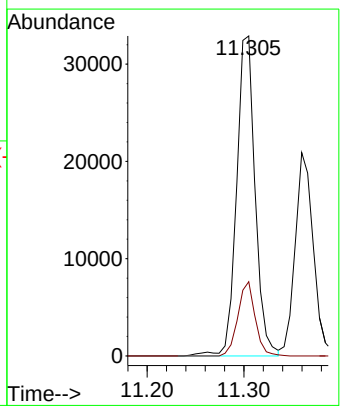


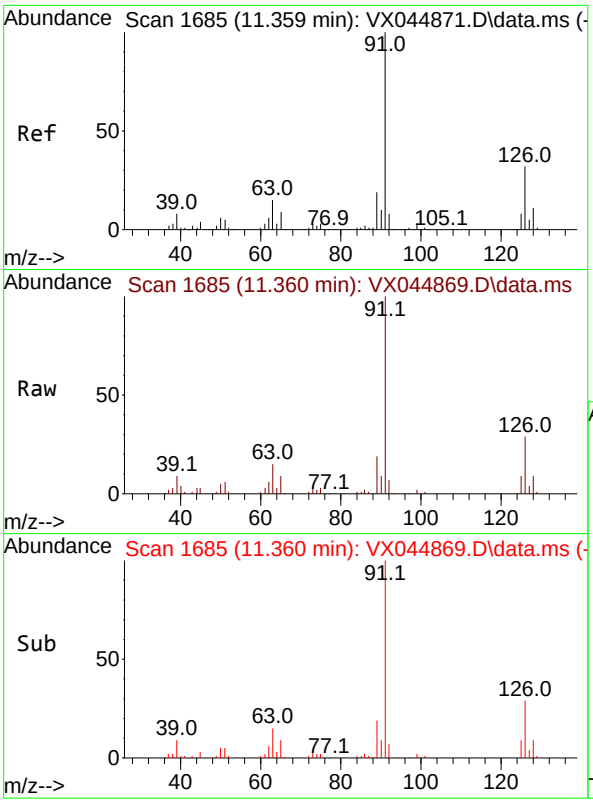


#78
n-propylbenzene
Concen: 4.949 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 43923

Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.1	33.3



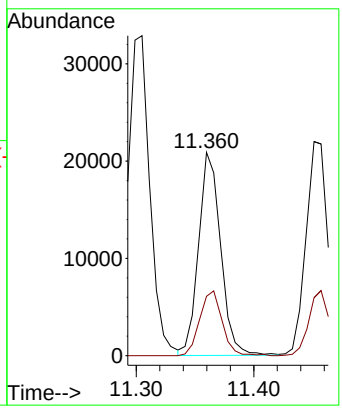


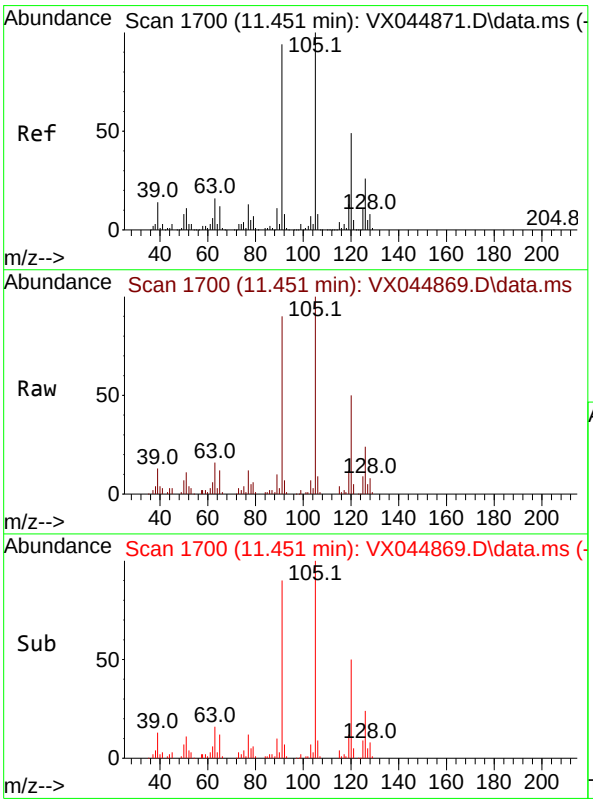
#79
2-Chlorotoluene
Concen: 5.007 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 27311

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6

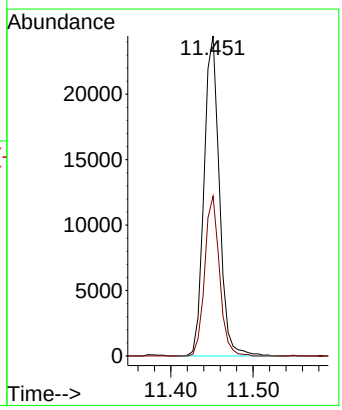


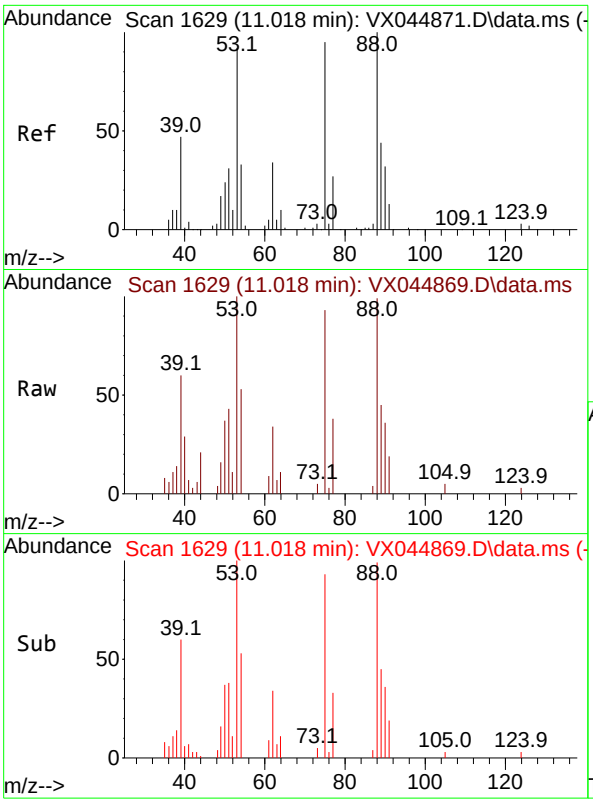


#80
1,3,5-Trimethylbenzene
Concen: 5.090 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31761

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0



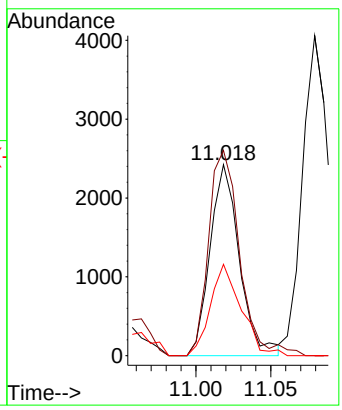


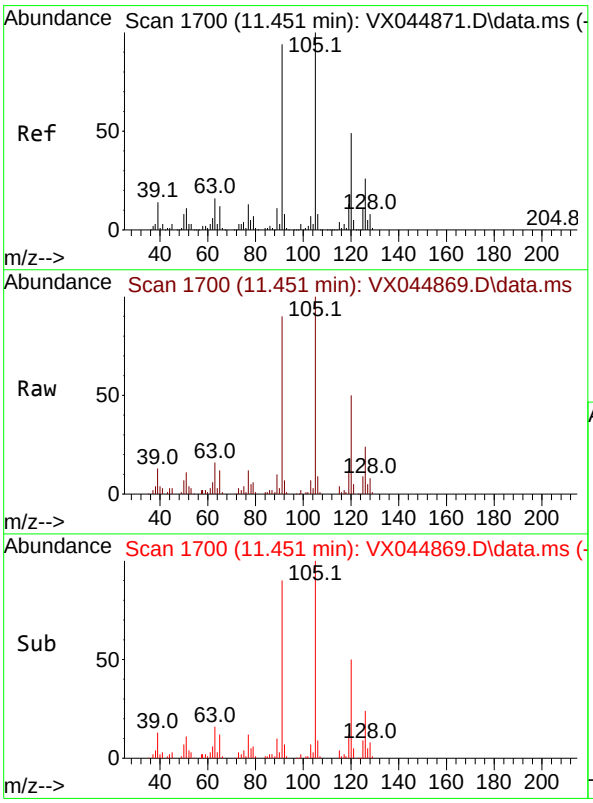
#81
trans-1,4-Dichloro-2-butene
Concen: 4.013 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 3303

Ion	Ratio	Lower	Upper
75	100		
53	113.7	78.0	117.0
89	50.2	36.6	54.8

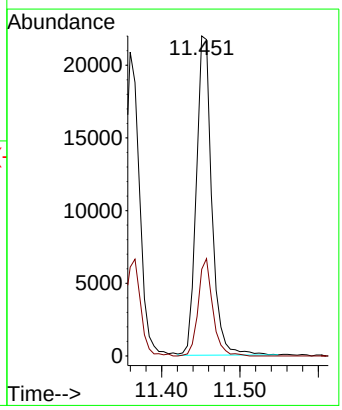


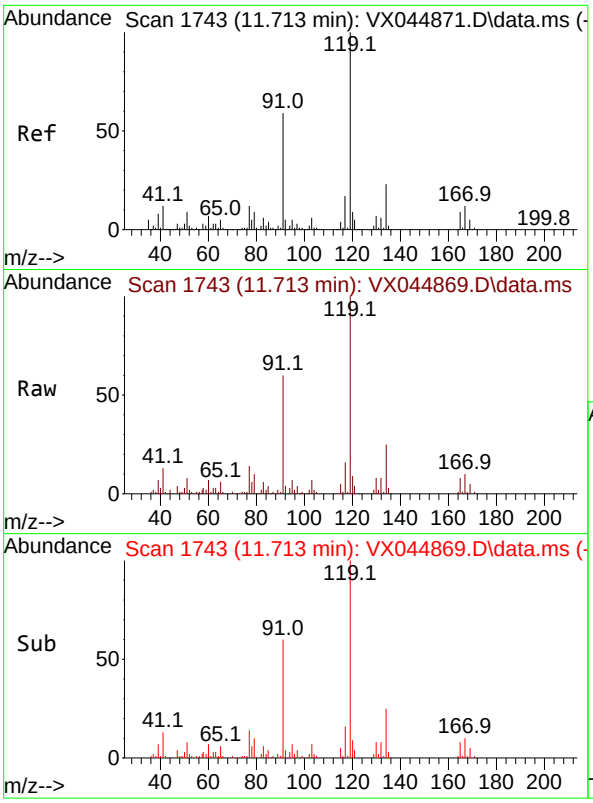


#82
4-Chlorotoluene
Concen: 4.994 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 91 Resp: 30138

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.2	42.6



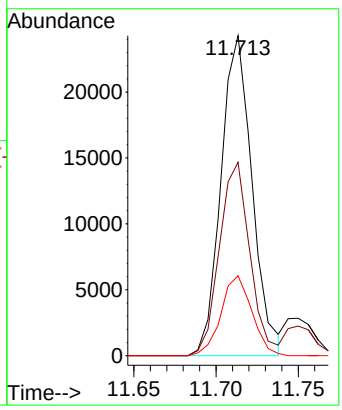


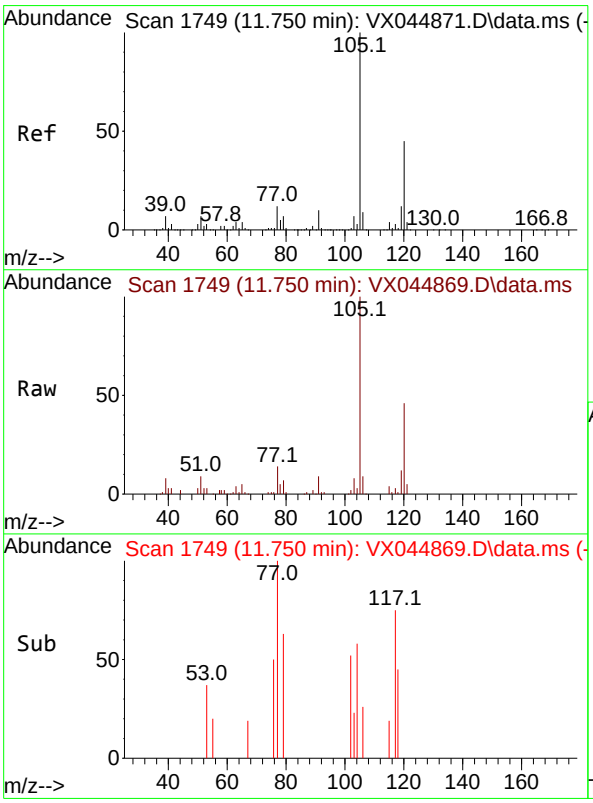
#83
tert-Butylbenzene
Concen: 5.068 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 31992

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.1	87.4
134	24.7	11.5	34.5

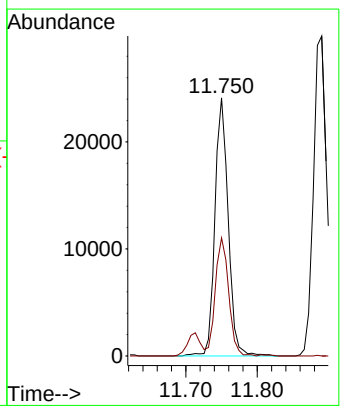


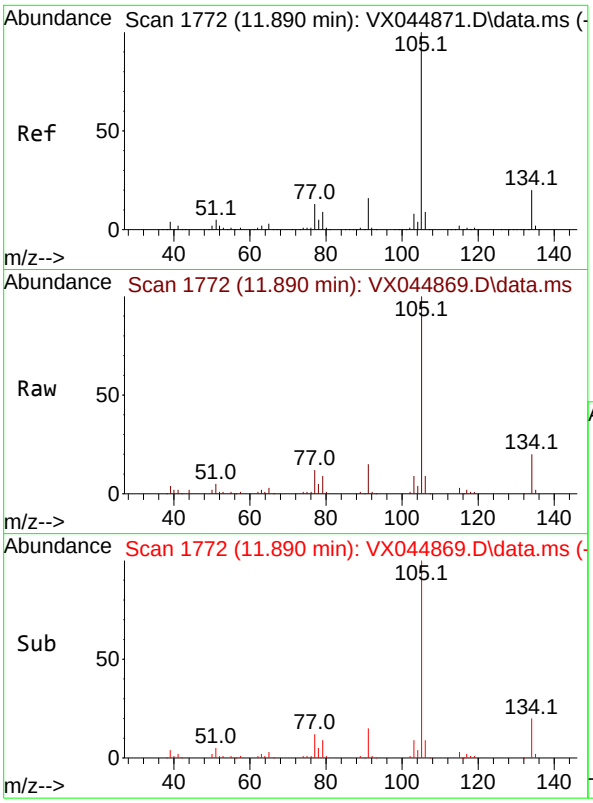


#84
1,2,4-Trimethylbenzene
Concen: 5.042 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:105 Resp: 31053

Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.4	67.0



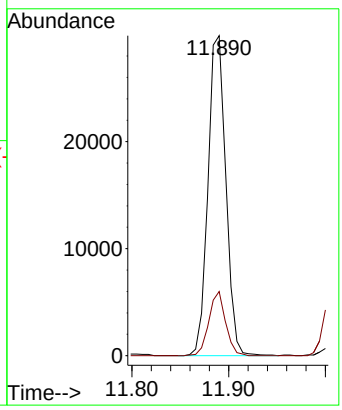


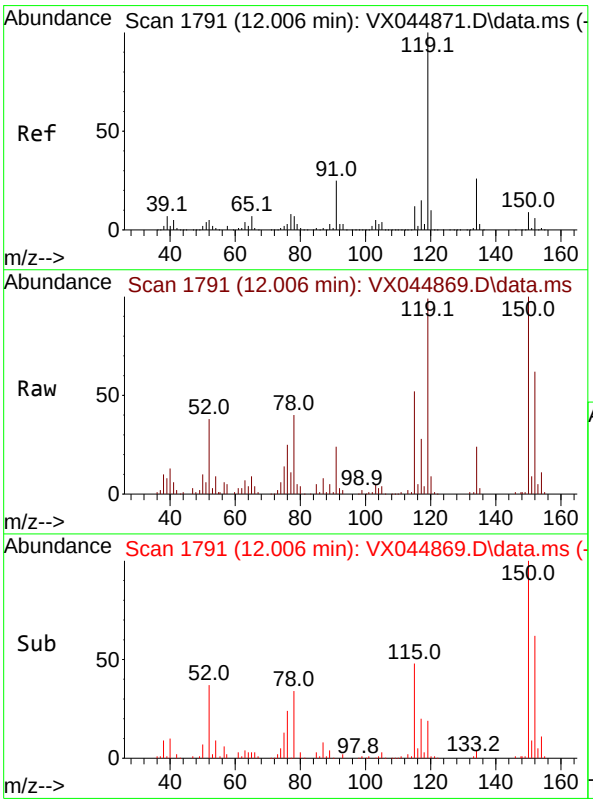
#85
sec-Butylbenzene
Concen: 4.917 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 38437

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.3

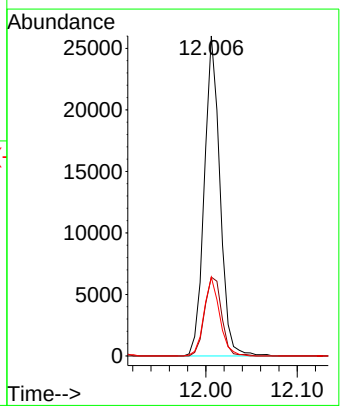


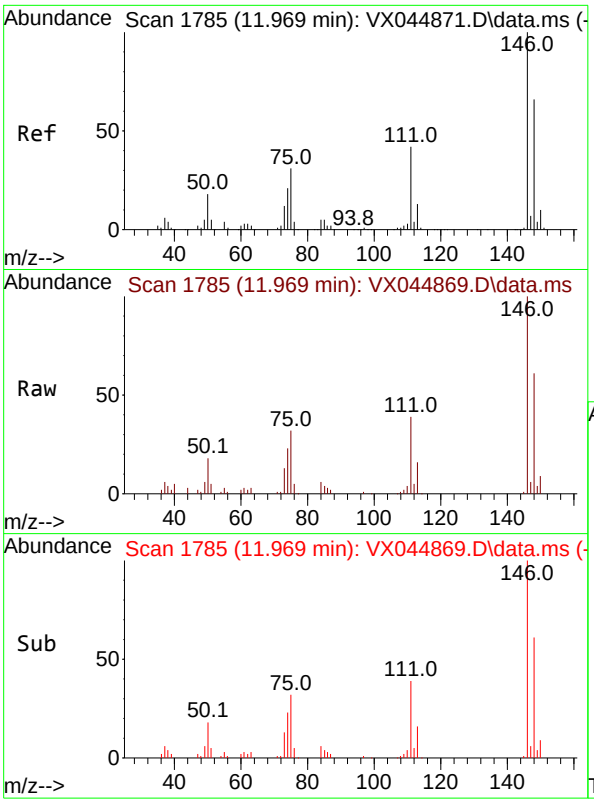


#86
p-Isopropyltoluene
Concen: 4.905 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:119 Resp: 30835

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.0	38.9
91	24.6	12.1	36.3



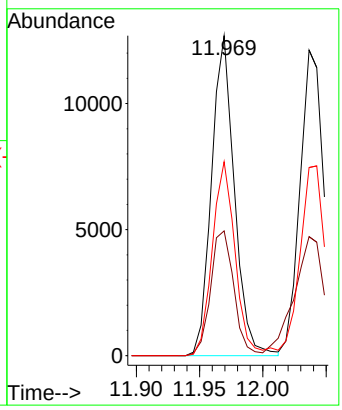


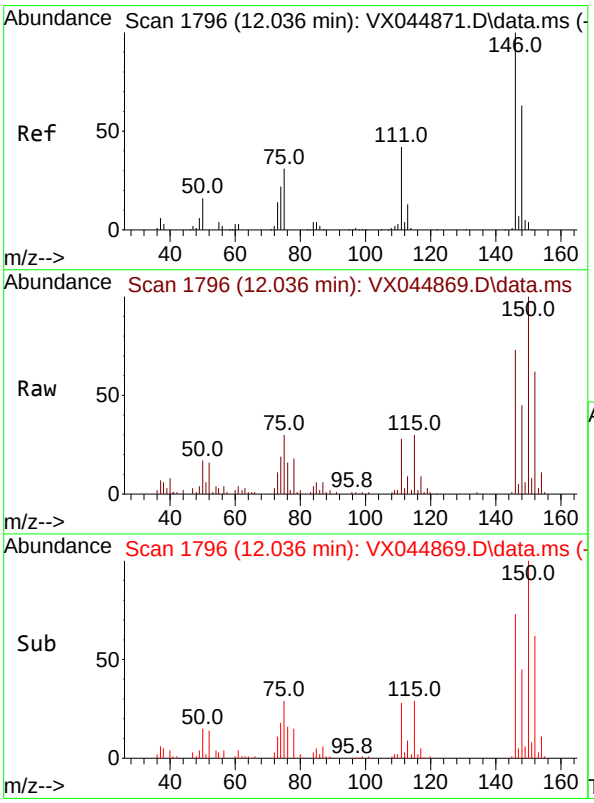
#87
1,3-Dichlorobenzene
Concen: 4.971 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 15935

Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.2	63.6
148	60.0	32.5	97.5

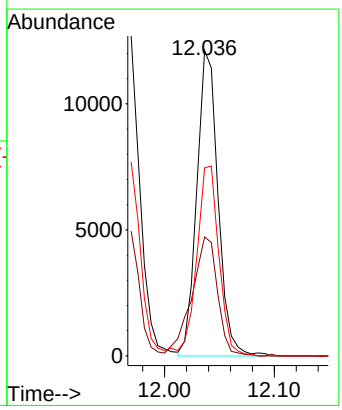


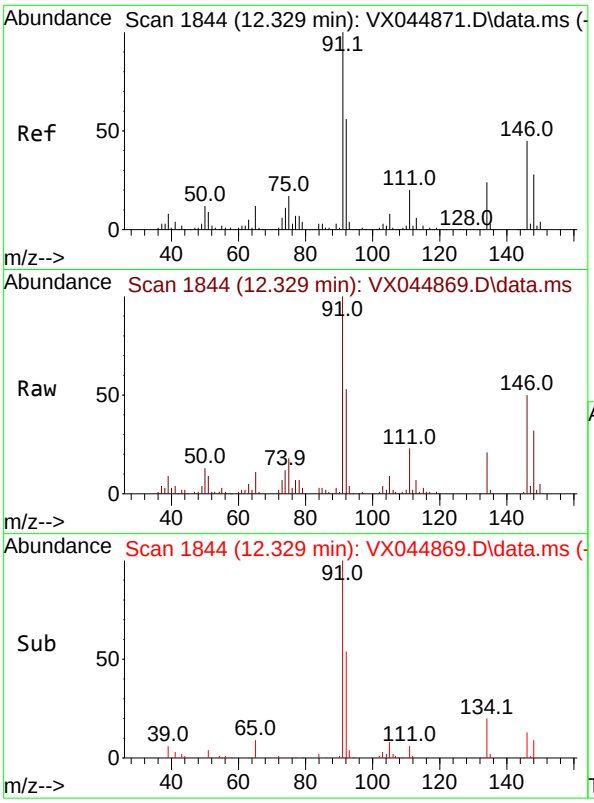


#88
1,4-Dichlorobenzene
Concen: 5.043 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:146 Resp: 16347

Ion	Ratio	Lower	Upper
146	100		
111	47.4	20.4	61.3
148	65.3	32.0	96.0



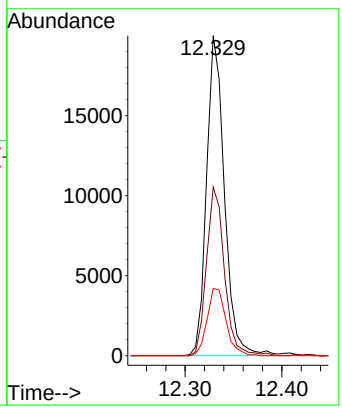


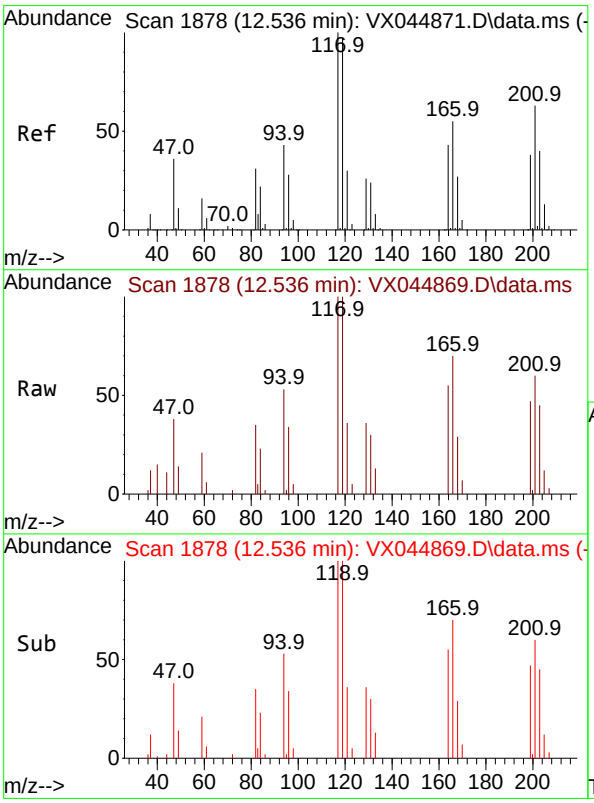
#89
n-Butylbenzene
Concen: 4.630 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 25747

Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.2	81.6
134	22.3	12.1	36.3

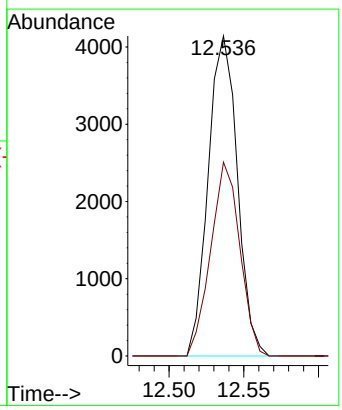


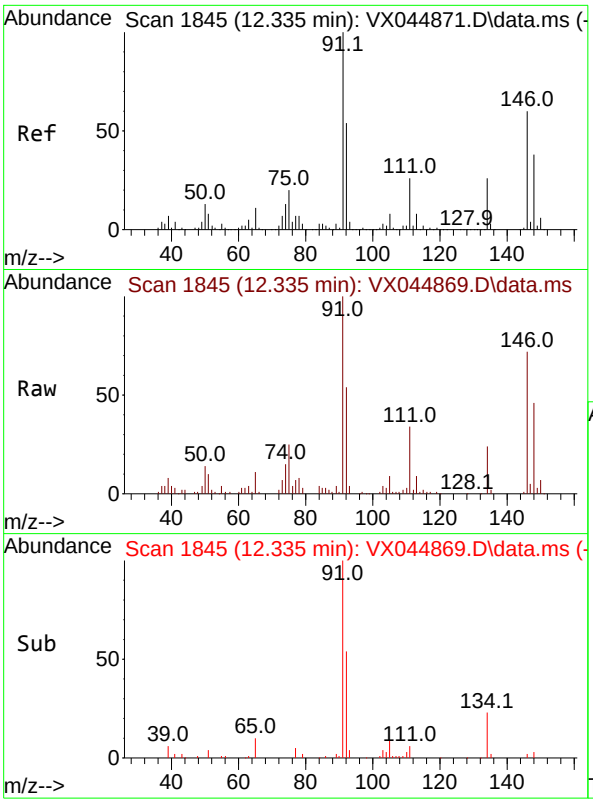


#90
Hexachloroethane
Concen: 4.775 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:117 Resp: 5620

Ion	Ratio	Lower	Upper
117	100		
201	60.6	32.5	97.5



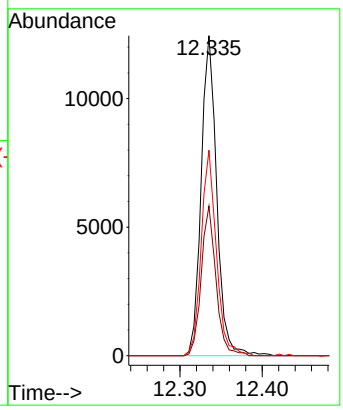


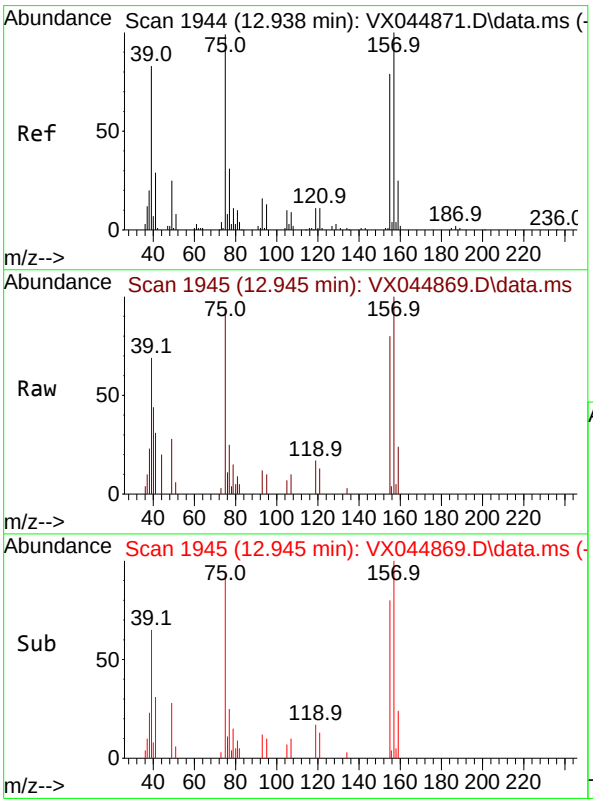
#91
1,2-Dichlorobenzene
Concen: 5.193 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 16362

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.8	65.4
148	62.7	31.9	95.9

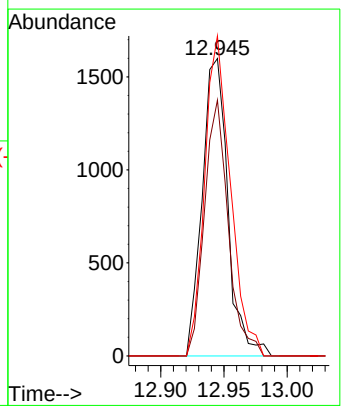


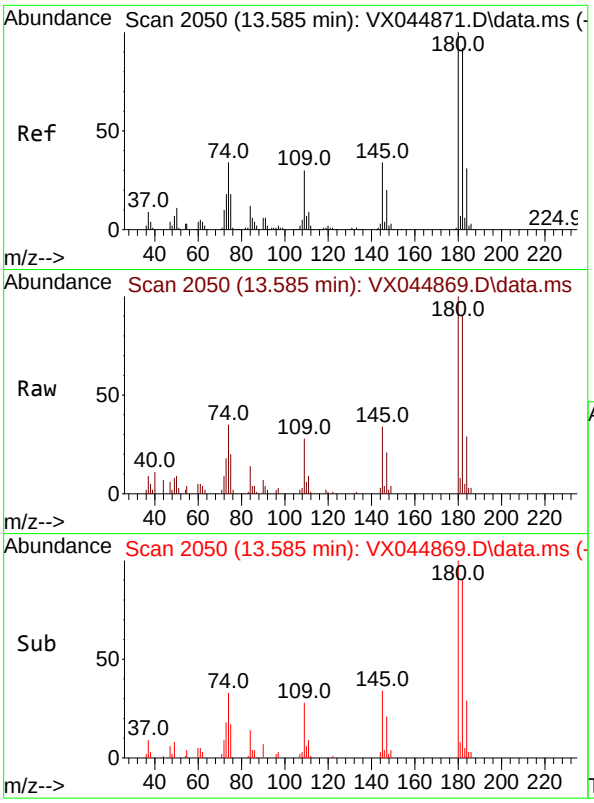


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.674 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion: 75 Resp: 2254

Ion	Ratio	Lower	Upper
75	100		
155	80.0	40.5	121.4
157	108.1	51.4	154.3



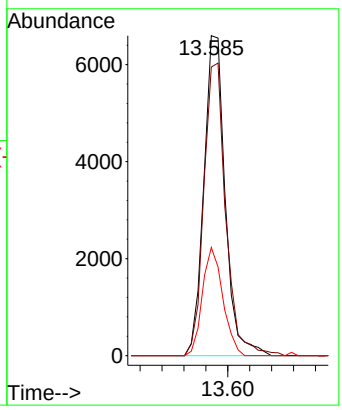


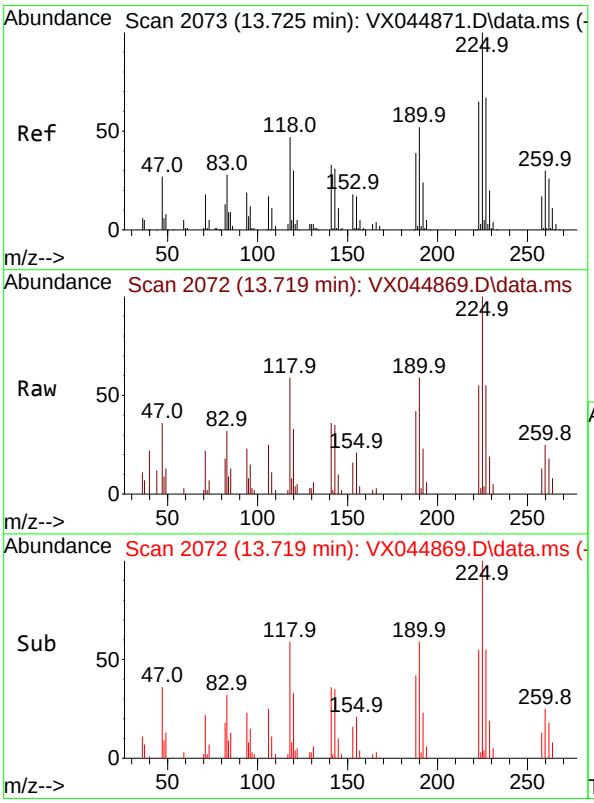
#93
1,2,4-Trichlorobenzene
Concen: 4.680 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 8923

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.6	142.8
145	32.3	16.4	49.1

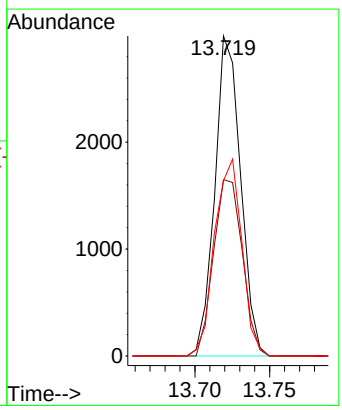


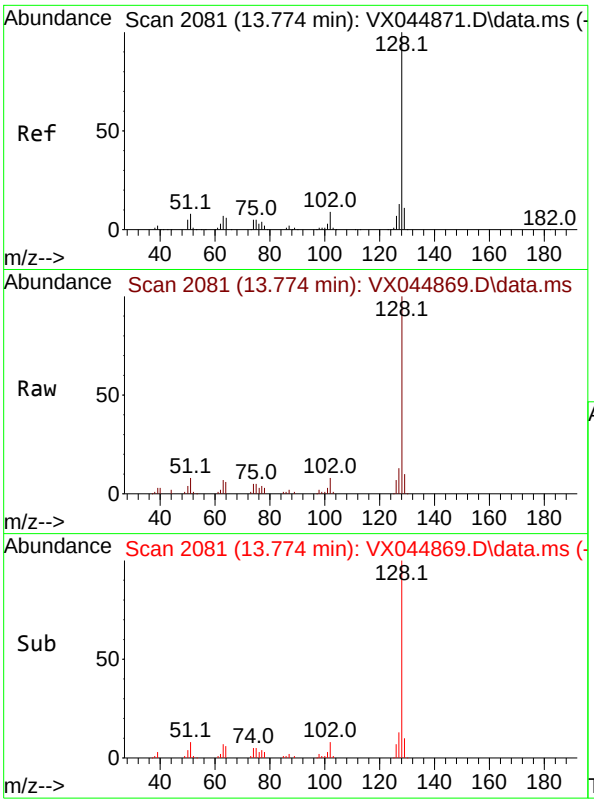


#94
Hexachlorobutadiene
Concen: 4.750 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:225 Resp: 3595

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.4	94.2
227	65.1	32.3	96.8



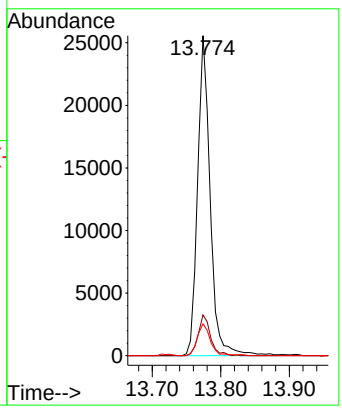


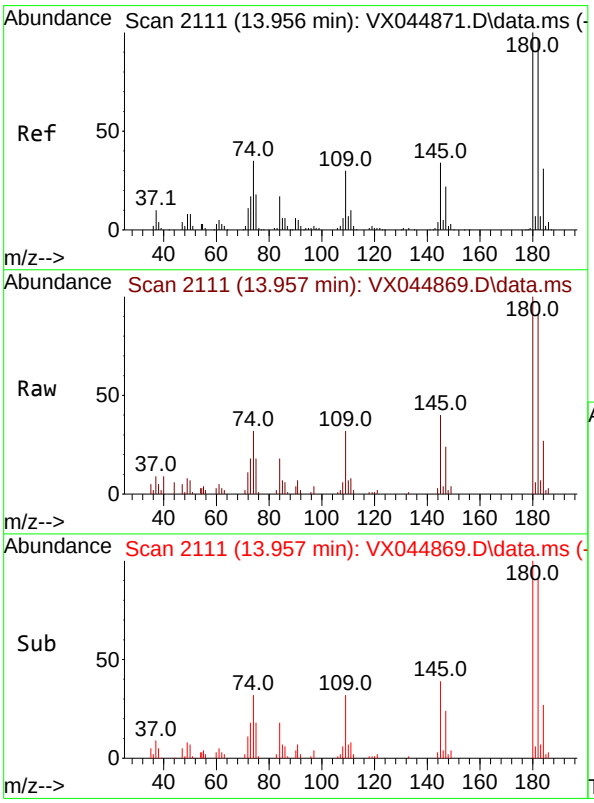
#95
Naphthalene
Concen: 4.756 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 32776

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.1	15.1
129	10.3	8.9	13.3

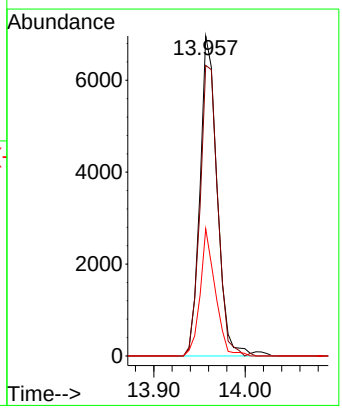




#96
1,2,3-Trichlorobenzene
Concen: 4.733 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044869.D
Acq: 10 Feb 2025 10:48

Tgt Ion:180 Resp: 9093

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.9	143.6
145	35.0	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	129532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	234445	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	207667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	37195	19.616	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 39.240%#			
35) Dibromofluoromethane	5.379	113	30170	19.793	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 39.580%#			
50) Toluene-d8	8.647	98	117127	20.321	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 40.640%#			
62) 4-Bromofluorobenzene	11.079	95	38475	19.800	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 39.600%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	37123	20.434	ug/l	98
3) Chloromethane	1.301	50	44666	20.200	ug/l	95
4) Vinyl Chloride	1.374	62	43901	20.494	ug/l	99
5) Bromomethane	1.593	94	13057	20.369	ug/l	99
6) Chloroethane	1.660	64	14523	16.522	ug/l	94
7) Trichlorofluoromethane	1.868	101	56805	20.969	ug/l	98
8) Diethyl Ether	2.130	74	20699	21.069	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	34593	21.135	ug/l	99
10) Methyl Iodide	2.441	142	44749	21.096	ug/l	99
11) Tert butyl alcohol	2.989	59	35834	101.870	ug/l	100
12) 1,1-Dichloroethene	2.307	96	34270	20.526	ug/l	99
13) Acrolein	2.233	56	33914	93.445	ug/l	99
14) Allyl chloride	2.654	41	61485	20.377	ug/l	98
15) Acrylonitrile	3.063	53	98518	104.896	ug/l	98
16) Acetone	2.380	43	77078	101.119	ug/l	98
17) Carbon Disulfide	2.502	76	92552	20.216	ug/l	99
18) Methyl Acetate	2.703	43	47970	19.943	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	110377	20.779	ug/l	98
20) Methylene Chloride	2.782	84	38390	20.562	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	34064	20.730	ug/l	92
22) Diisopropyl ether	3.757	45	120300	21.074	ug/l	93
23) Vinyl Acetate	3.715	43	490239	105.341	ug/l	99
24) 1,1-Dichloroethane	3.599	63	66942	20.958	ug/l	99
25) 2-Butanone	4.556	43	130481	105.417	ug/l	96
26) 2,2-Dichloropropane	4.471	77	51803	20.451	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	42096	21.328	ug/l	97
28) Bromochloromethane	4.885	49	31474	20.504	ug/l	99
29) Tetrahydrofuran	5.001	42	86875	105.700	ug/l	99
30) Chloroform	5.087	83	65721	21.217	ug/l	98
31) Cyclohexane	5.458	56	60814	20.653	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	54450	20.724	ug/l	100
36) 1,1-Dichloropropene	5.684	75	45991	20.913	ug/l	99
37) Ethyl Acetate	4.715	43	51242	20.949	ug/l	99
38) Carbon Tetrachloride	5.666	117	44802	20.790	ug/l	99
39) Methylcyclohexane	7.373	83	62505	21.985	ug/l	98
40) Benzene	6.031	78	147912	21.540	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	27347	20.887	ug/l		94
42) 1,2-Dichloroethane	6.086	62	47095	21.519	ug/l		100
43) Isopropyl Acetate	6.336	43	84306	21.343	ug/l		99
44) Trichloroethene	7.123	130	34390	21.910	ug/l		96
45) 1,2-Dichloropropane	7.428	63	36510	21.371	ug/l		99
46) Dibromomethane	7.574	93	25300	21.354	ug/l		99
47) Bromodichloromethane	7.818	83	48202	21.012	ug/l		97
48) Methyl methacrylate	7.690	41	39747	21.341	ug/l		100
49) 1,4-Dioxane	7.665	88	17153	429.262	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	263394	109.684	ug/l		99
52) Toluene	8.714	92	89726	21.940	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	48613	20.940	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	55026	21.259	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	33930	21.582	ug/l		98
56) Ethyl methacrylate	9.116	69	54674	21.533	ug/l		99
57) 1,3-Dichloropropane	9.305	76	60079	21.841	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	133072	106.736	ug/l		100
59) 2-Hexanone	9.427	43	190449	110.072	ug/l		98
60) Dibromochloromethane	9.519	129	35706	21.237	ug/l		99
61) 1,2-Dibromoethane	9.604	107	34463	21.628	ug/l		100
64) Tetrachloroethene	9.269	164	28519	21.776	ug/l		97
65) Chlorobenzene	10.073	112	94695	21.230	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	30344	21.136	ug/l		99
67) Ethyl Benzene	10.189	91	167865	21.327	ug/l		100
68) m/p-Xylenes	10.299	106	125271	43.144	ug/l		99
69) o-Xylene	10.640	106	62087	21.310	ug/l		97
70) Styrene	10.653	104	103740	22.101	ug/l		98
71) Bromoform	10.799	173	22592	21.086	ug/l	#	99
73) Isopropylbenzene	10.957	105	160147	21.597	ug/l		99
74) N-amyl acetate	10.842	43	70542	21.023	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.213	83	52967	20.787	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	55632	27.246	ug/l		83
77) Bromobenzene	11.195	156	36021	21.426	ug/l		97
78) n-propylbenzene	11.299	91	183212	21.406	ug/l		99
79) 2-Chlorotoluene	11.360	91	111782	21.250	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	130526	21.691	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	15375	19.370	ug/l		96
82) 4-Chlorotoluene	11.451	91	122303	21.016	ug/l		100
83) tert-Butylbenzene	11.713	119	130358	21.414	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	130211	21.924	ug/l		100
85) sec-Butylbenzene	11.890	105	162875	21.607	ug/l		100
86) p-Isopropyltoluene	12.006	119	130643	21.551	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	64141	20.747	ug/l		100
88) 1,4-Dichlorobenzene	12.037	146	64889	20.758	ug/l		98
89) n-Butylbenzene	12.329	91	113705	21.202	ug/l		100
90) Hexachloroethane	12.536	117	23153	20.398	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	64940	21.373	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9873	21.230	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	37308	20.292	ug/l		99
94) Hexachlorobutadiene	13.725	225	15312	20.979	ug/l		96
95) Naphthalene	13.774	128	142902	21.502	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	38389	20.722	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

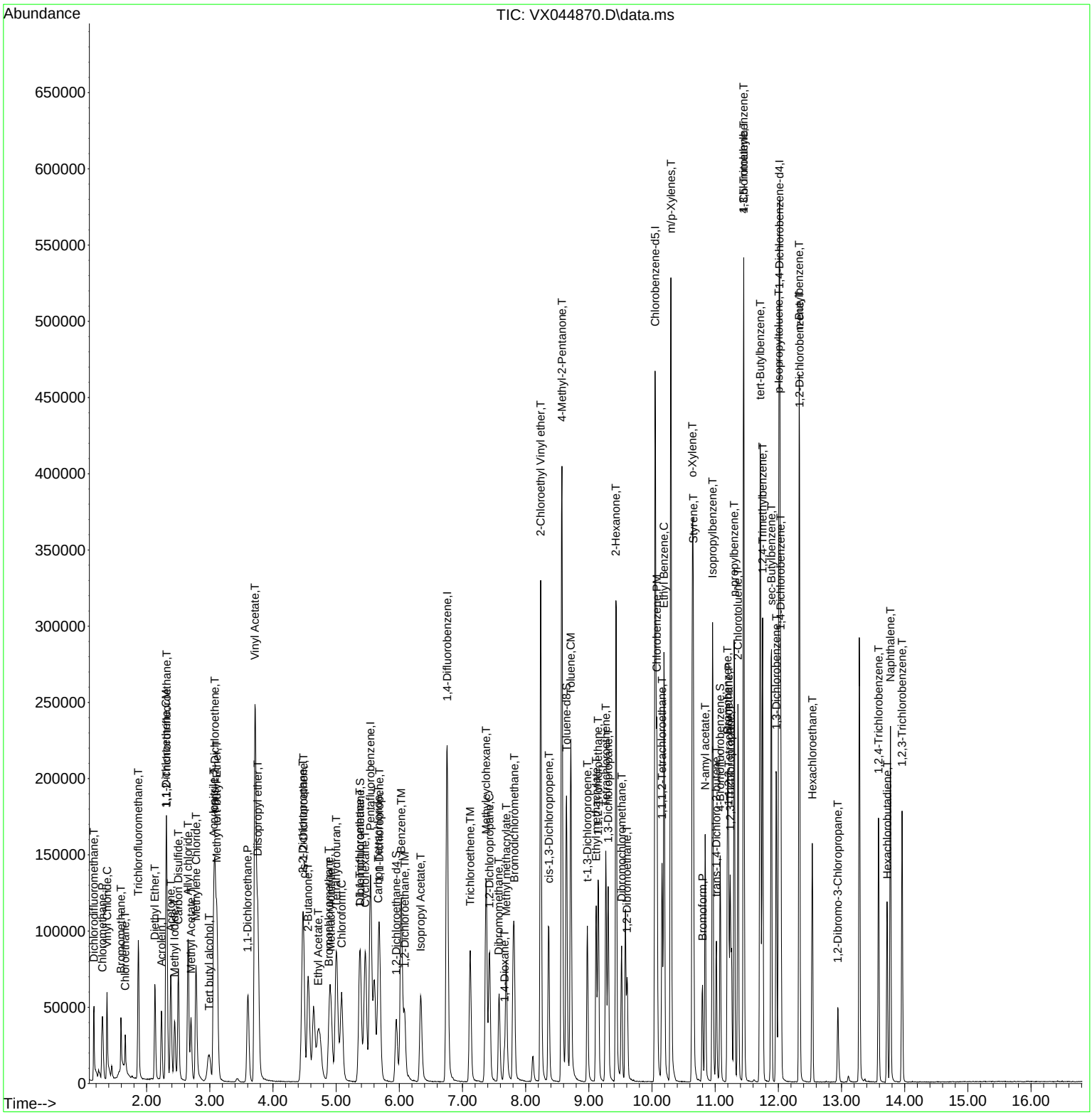
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

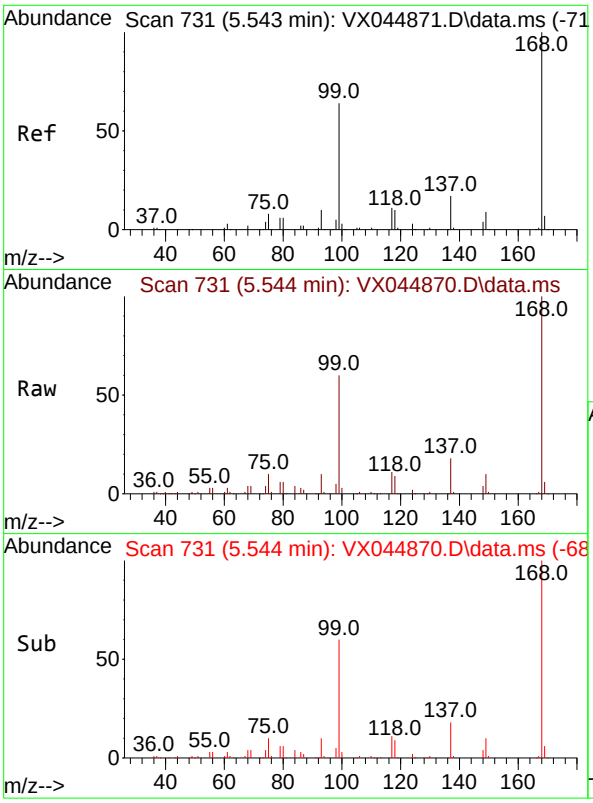
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044870.D
Acq On : 10 Feb 2025 11:11
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Feb 11 02:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



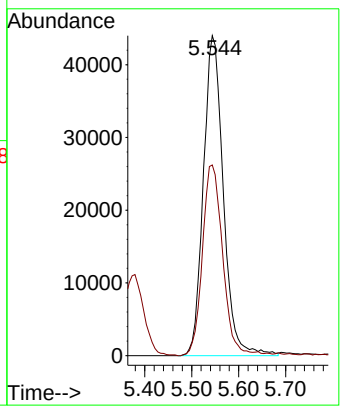


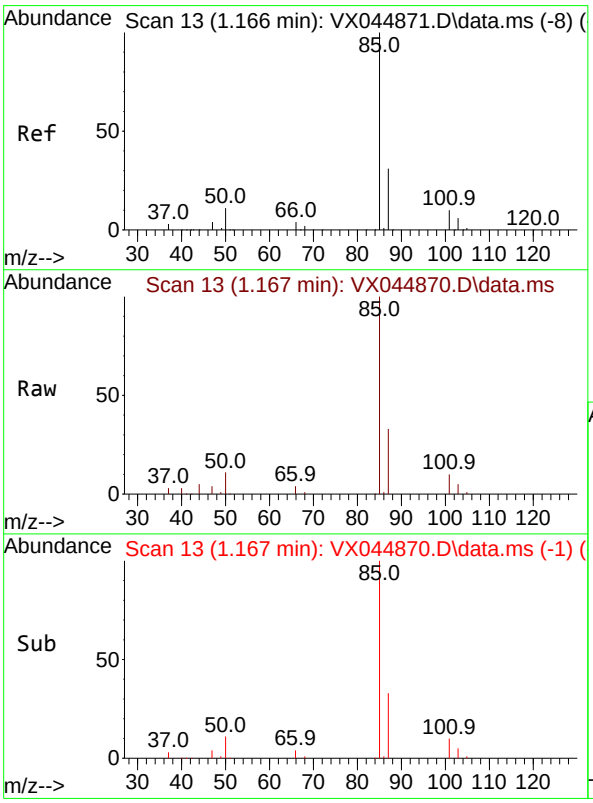
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 129532

Ion	Ratio	Lower	Upper
168	100		
99	59.6	51.2	76.8

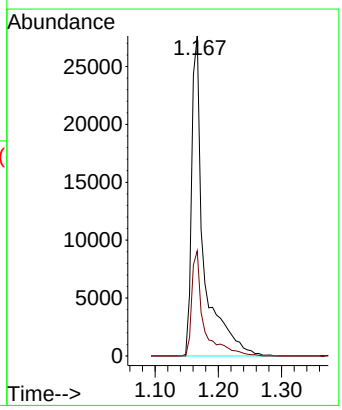


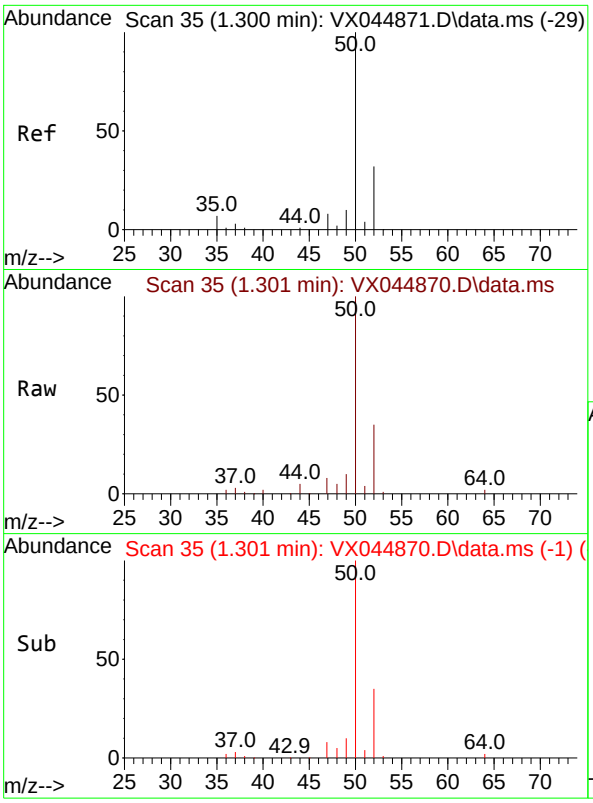


#2
Dichlorodifluoromethane
Concen: 20.434 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 85 Resp: 37123

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.8	47.3



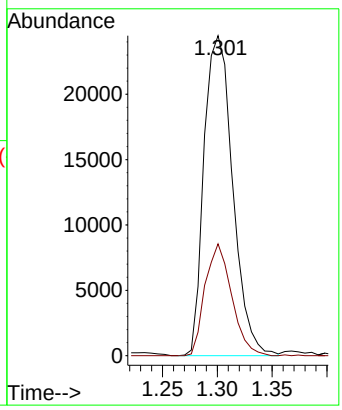


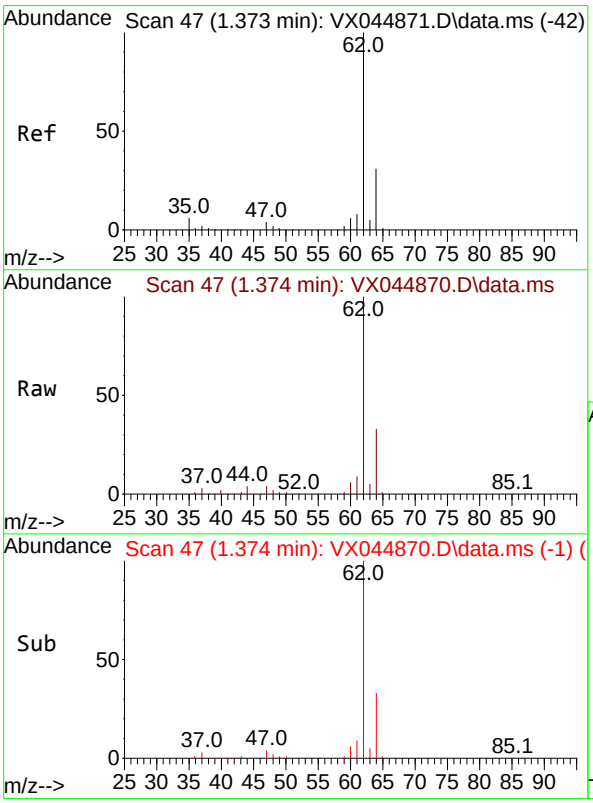
#3
Chloromethane
Concen: 20.200 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 44666

Ion	Ratio	Lower	Upper
50	100		
52	35.0	25.9	38.9

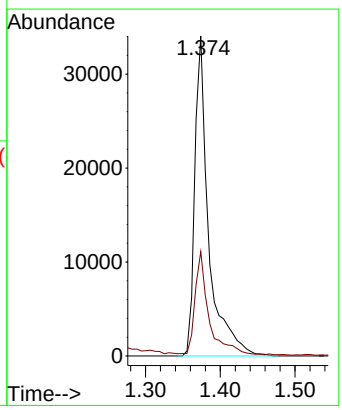


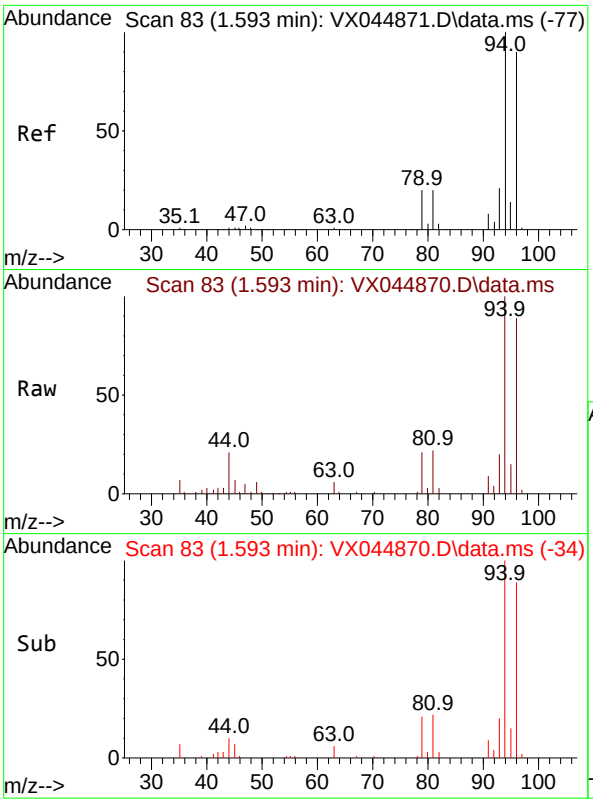


#4
Vinyl Chloride
Concen: 20.494 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 43901

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0



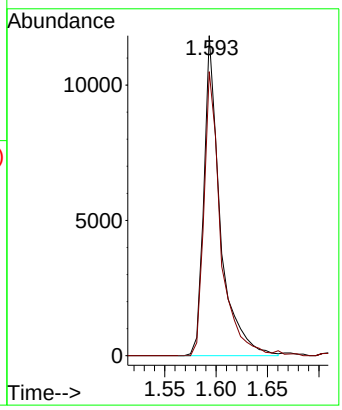


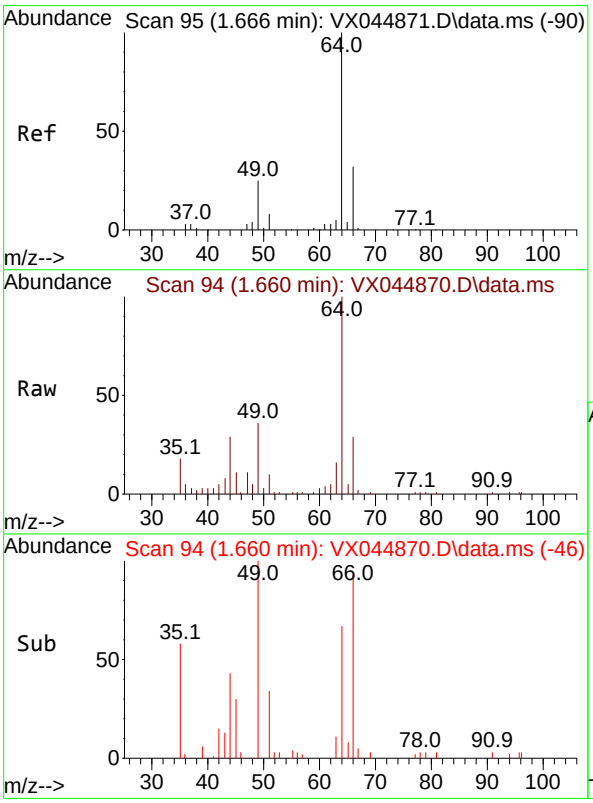
#5
Bromomethane
Concen: 20.369 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 13057

Ion	Ratio	Lower	Upper
94	100		
96	88.8	71.6	107.4

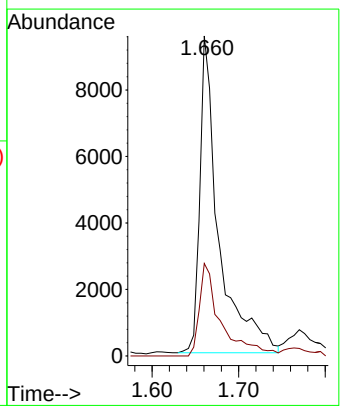


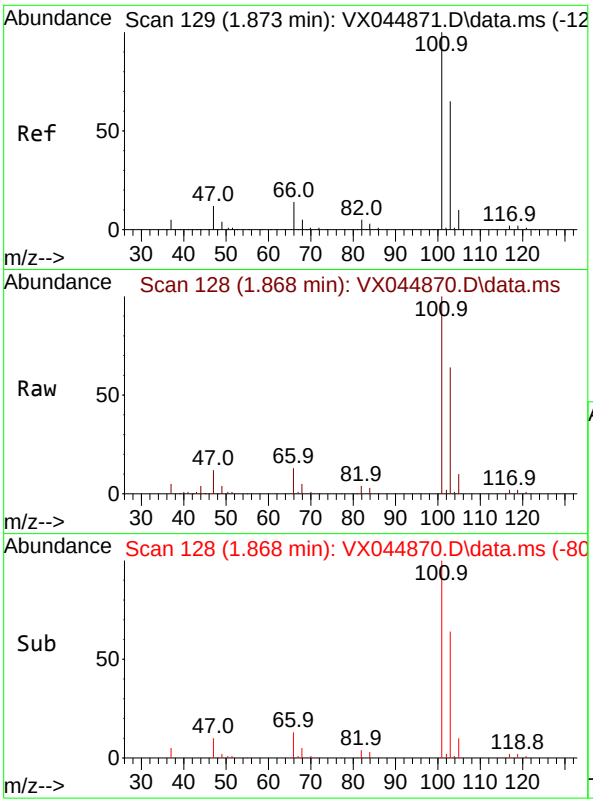


#6
Chloroethane
Concen: 16.522 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 64 Resp: 14523

Ion	Ratio	Lower	Upper
64	100		
66	29.2	25.9	38.9



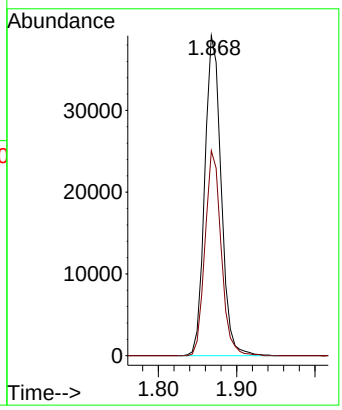


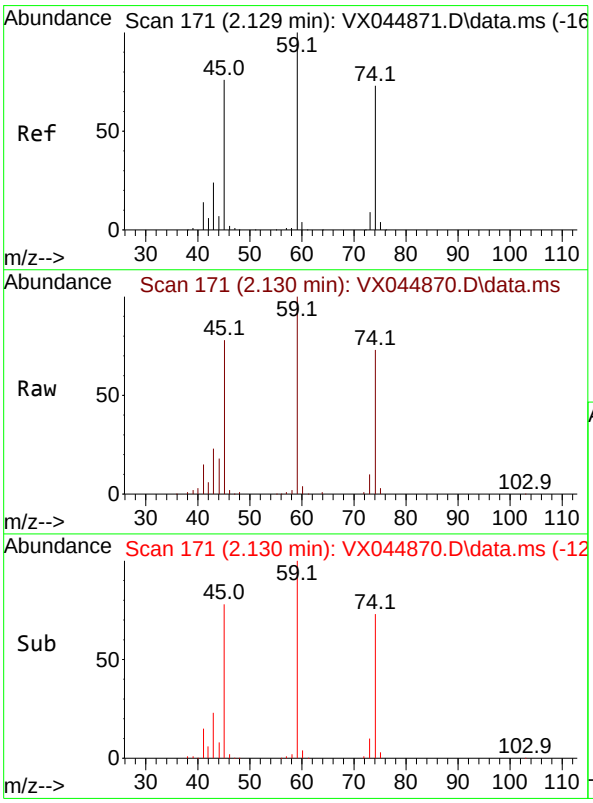
#7
Trichlorofluoromethane
Concen: 20.969 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 56805

Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.4	78.6

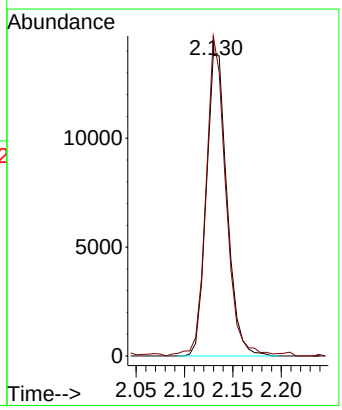


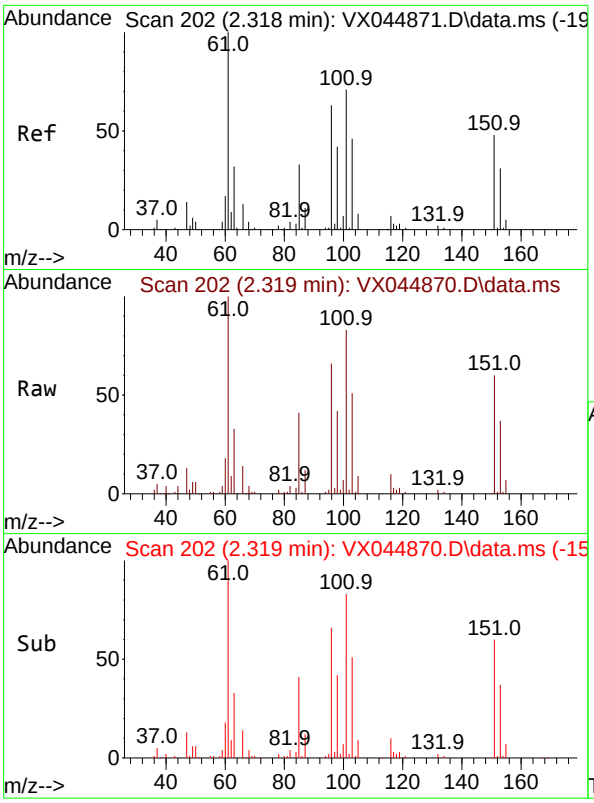


#8
Diethyl Ether
Concen: 21.069 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 74 Resp: 20699

Ion	Ratio	Lower	Upper
74	100		
45	101.2	51.1	153.4



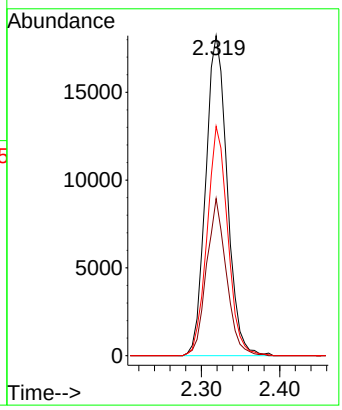


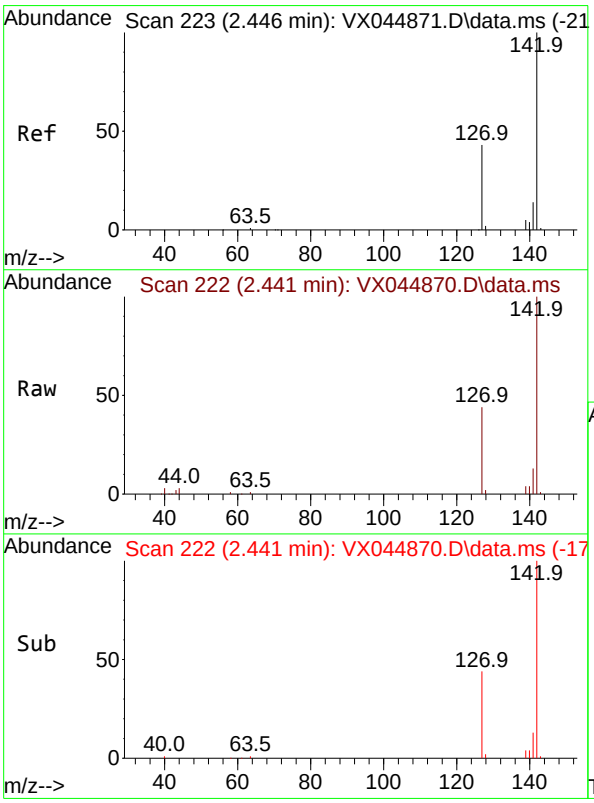
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.135 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 34593

Ion	Ratio	Lower	Upper
101	100		
85	45.7	35.7	53.5
151	69.4	56.0	84.0

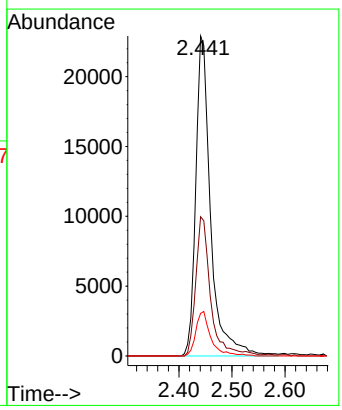


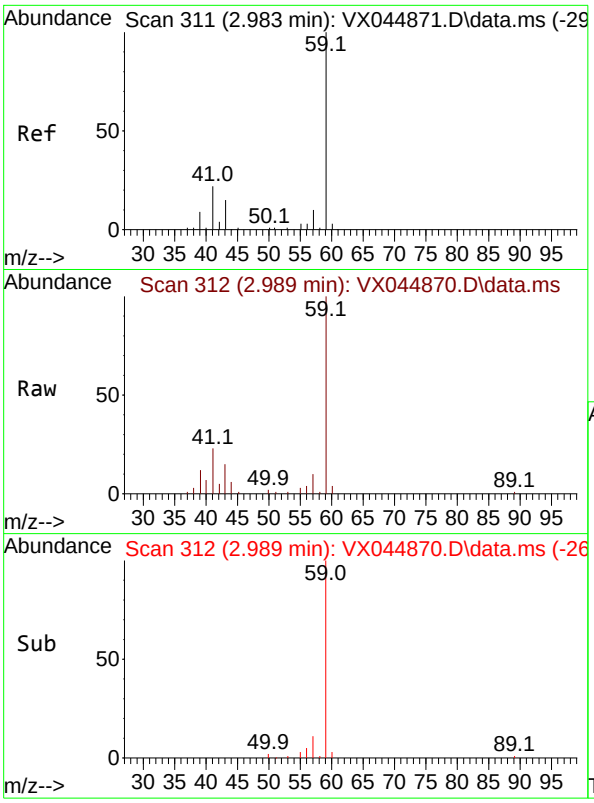


#10
Methyl Iodide
Concen: 21.096 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:142 Resp: 44749

Ion	Ratio	Lower	Upper
142	100		
127	43.4	34.3	51.5
141	14.0	11.4	17.2



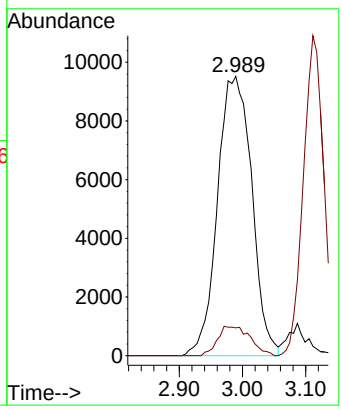


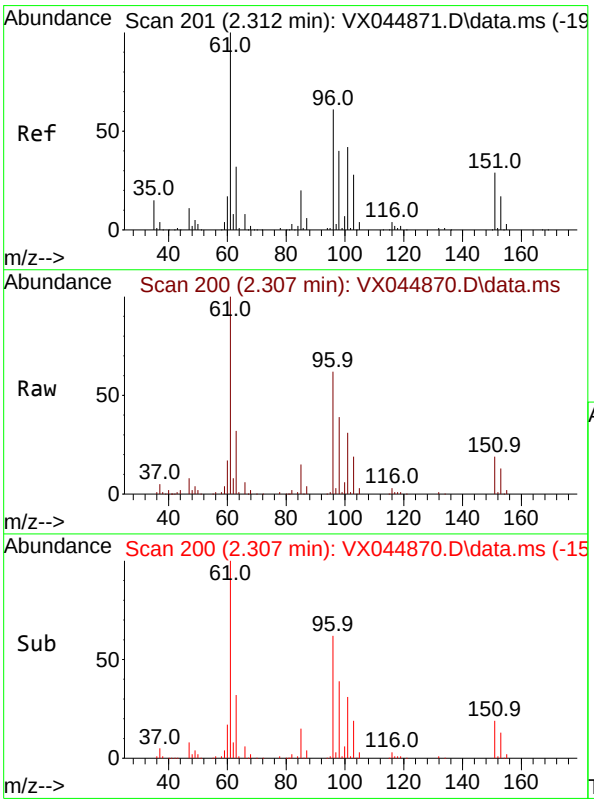
#11
Tert butyl alcohol
Concen: 101.870 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 35834

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1

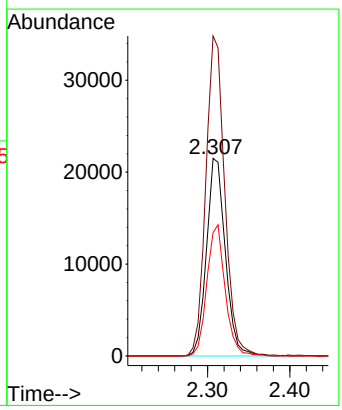


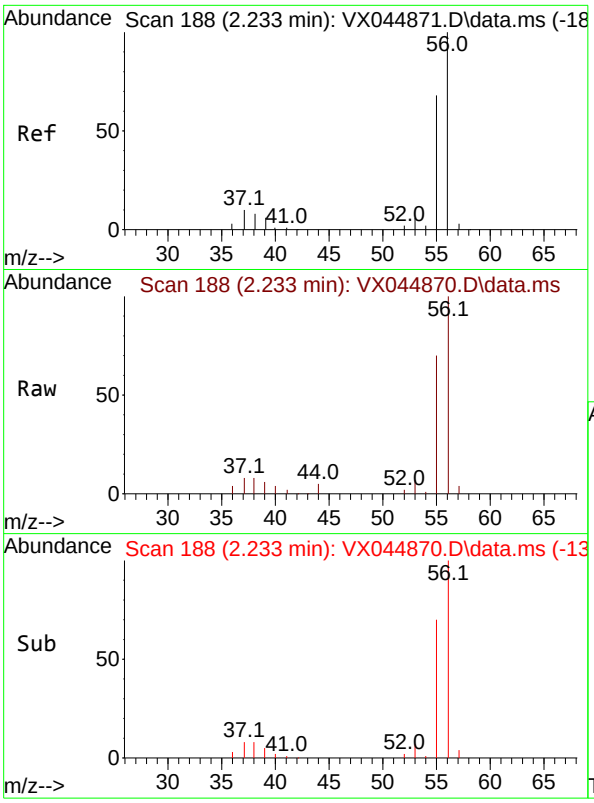


#12
1,1-Dichloroethene
Concen: 20.526 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 96 Resp: 34270

Ion	Ratio	Lower	Upper
96	100		
61	161.9	130.2	195.4
98	62.4	52.2	78.4



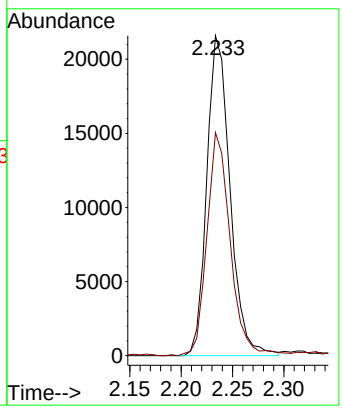


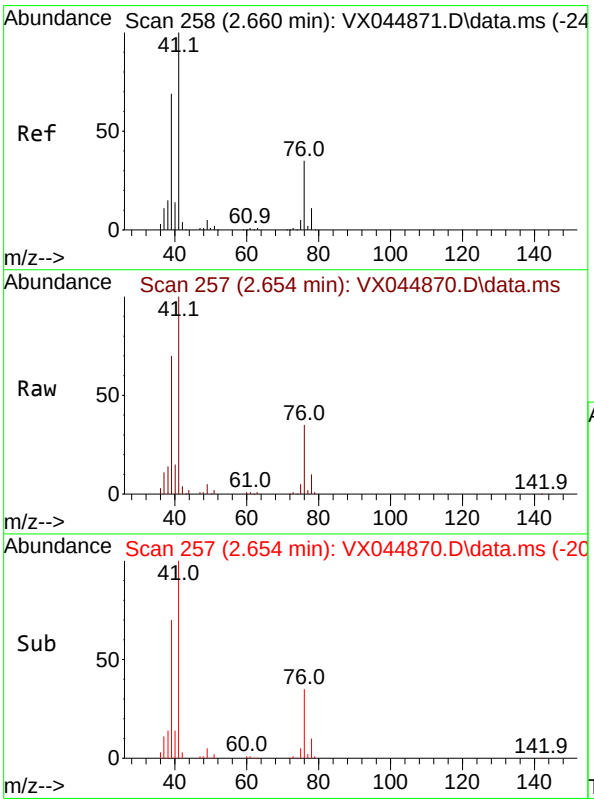
#13
Acrolein
Concen: 93.445 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 33914

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5

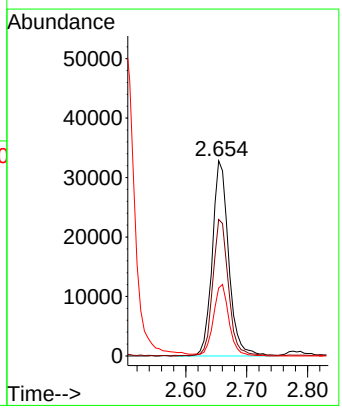


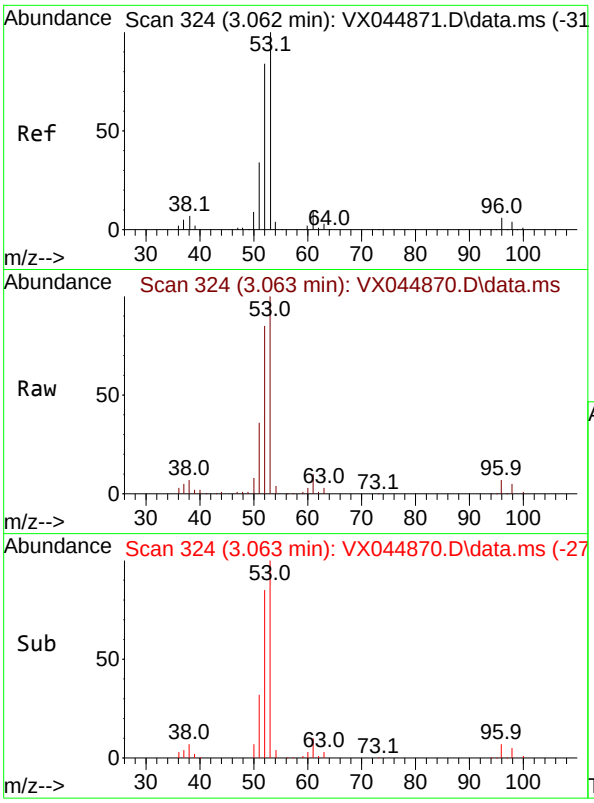


#14
Allyl chloride
Concen: 20.377 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 61485

Ion	Ratio	Lower	Upper
41	100		
39	65.8	51.4	77.2
76	34.9	27.0	40.4



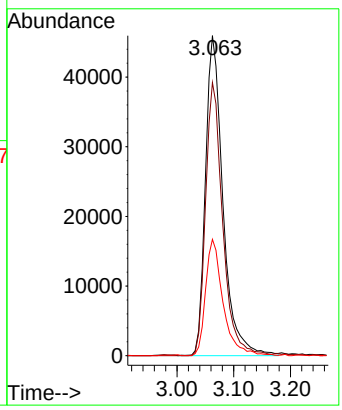


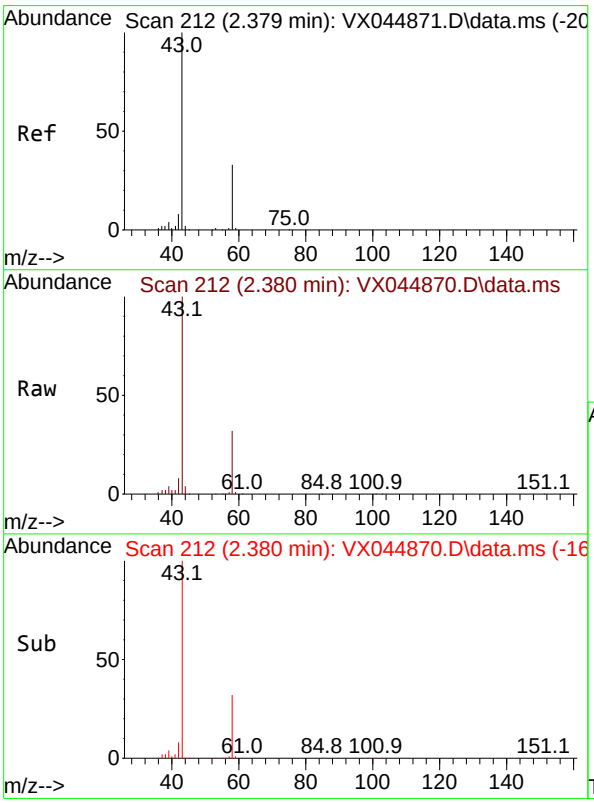
#15
Acrylonitrile
Concen: 104.896 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 98518

Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.0	97.6
51	36.3	28.0	42.0

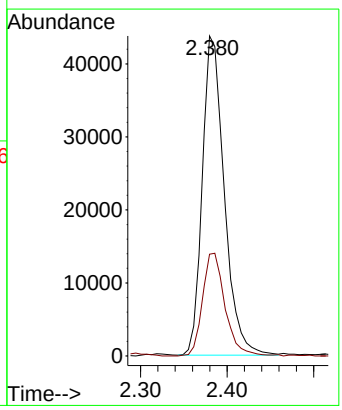


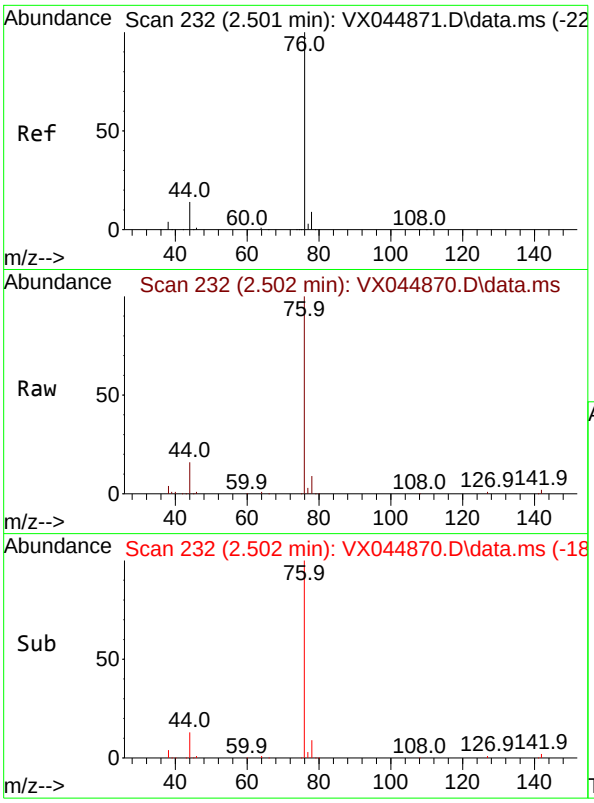


#16
Acetone
Concen: 101.119 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 77078

Ion	Ratio	Lower	Upper
43	100		
58	31.9	26.5	39.7



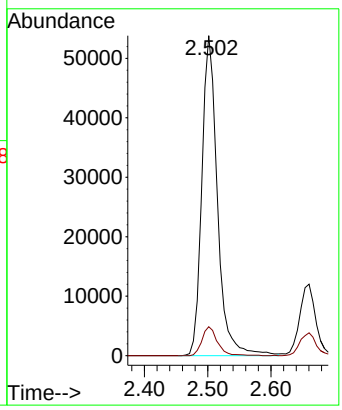


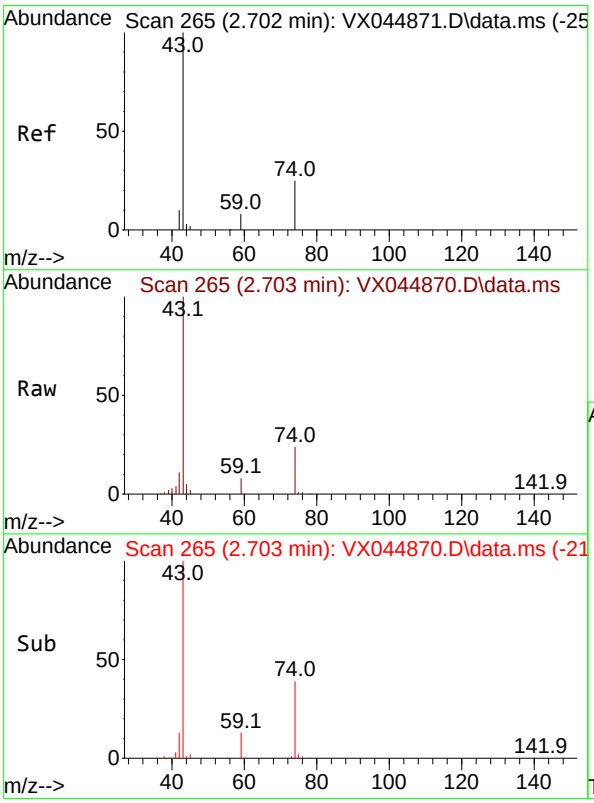
#17
Carbon Disulfide
Concen: 20.216 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 92552

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.4

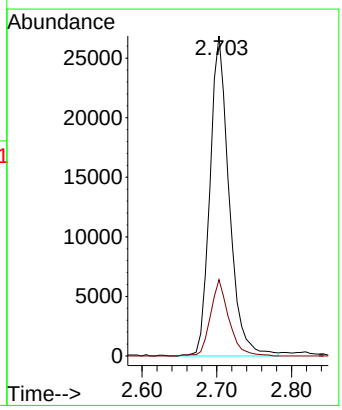


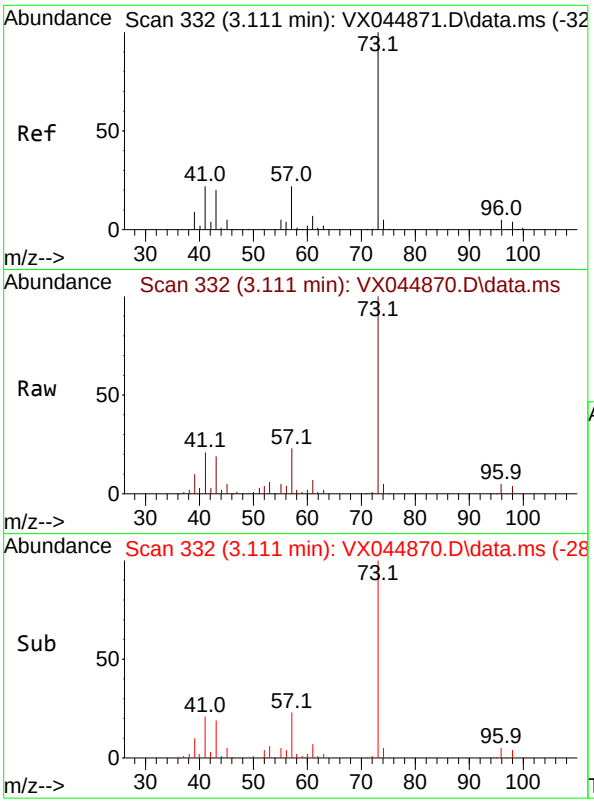


#18
Methyl Acetate
Concen: 19.943 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 47970

Ion	Ratio	Lower	Upper
43	100		
74	22.9	18.9	28.3



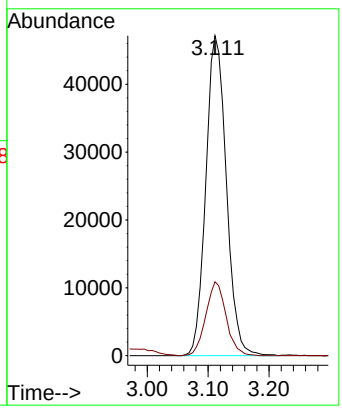


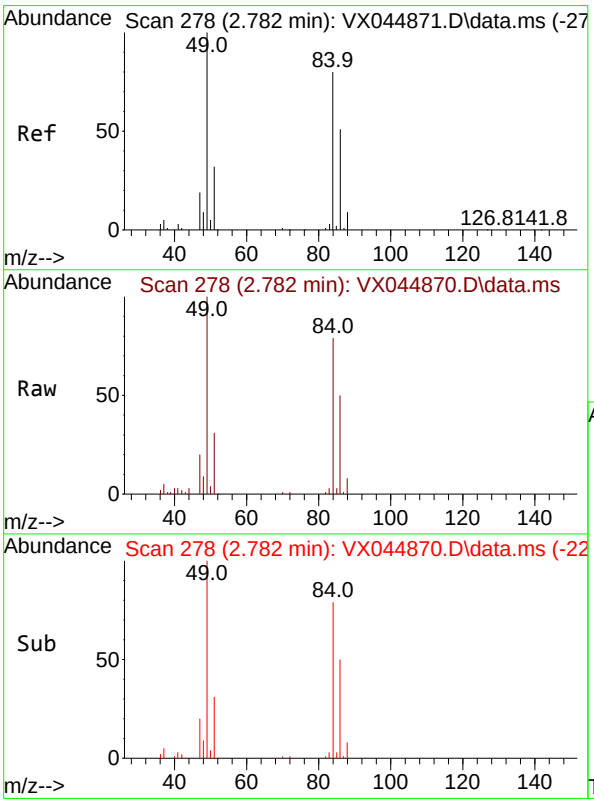
#19
Methyl tert-butyl Ether
Concen: 20.779 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 110377

Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.9	26.9

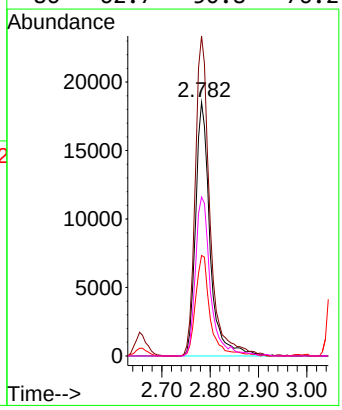


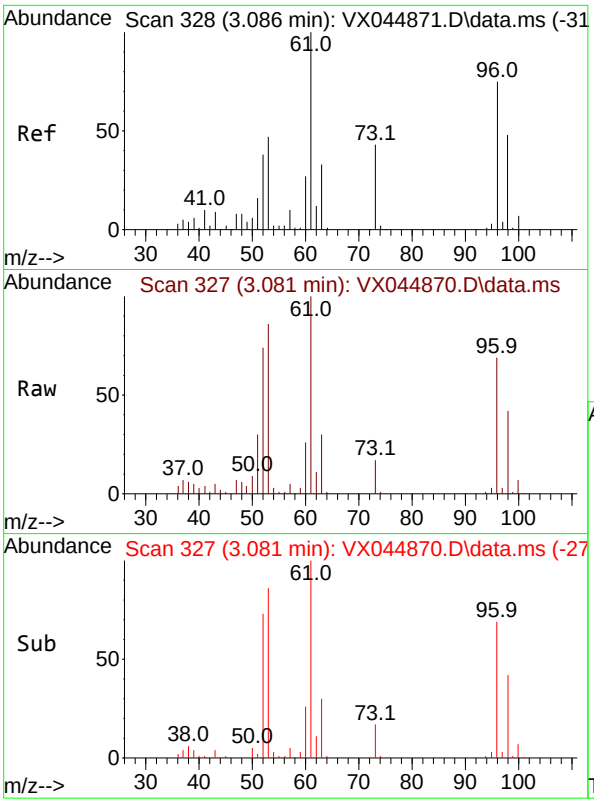


#20
Methylene Chloride
Concen: 20.562 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 84 Resp: 38390

Ion	Ratio	Lower	Upper
84	100		
49	126.2	100.1	150.1
51	39.6	31.7	47.5
86	62.7	50.8	76.2



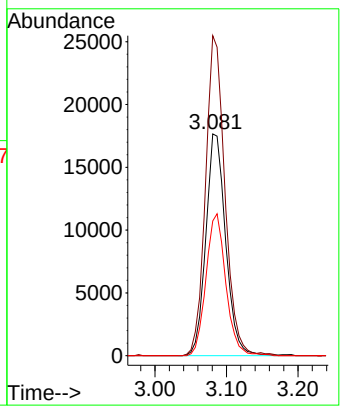


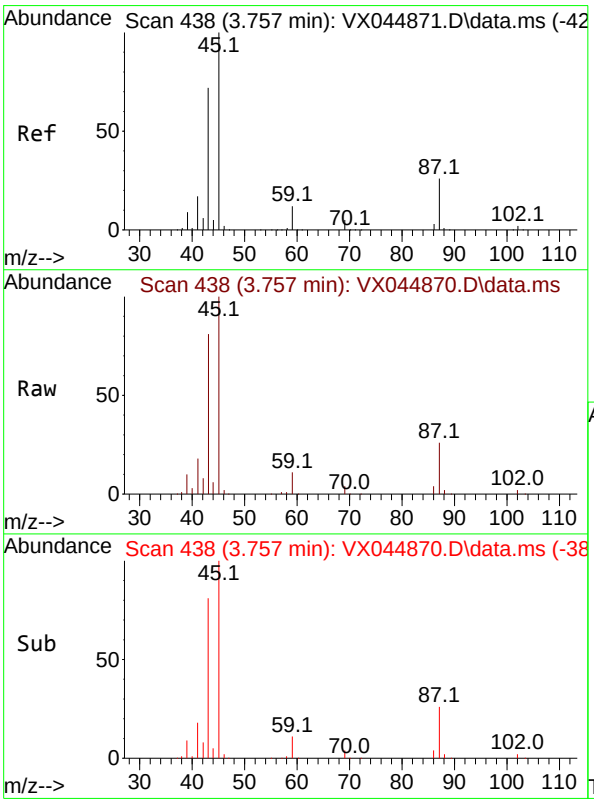
#21
trans-1,2-Dichloroethene
Concen: 20.730 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 34064

Ion	Ratio	Lower	Upper
96	100		
61	144.3	106.0	159.0
98	60.8	50.6	76.0

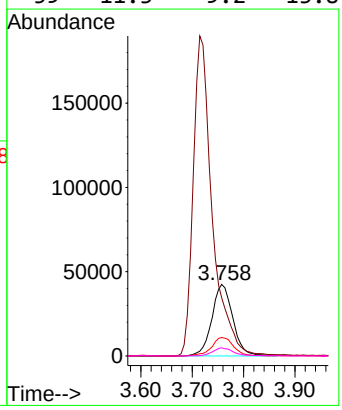


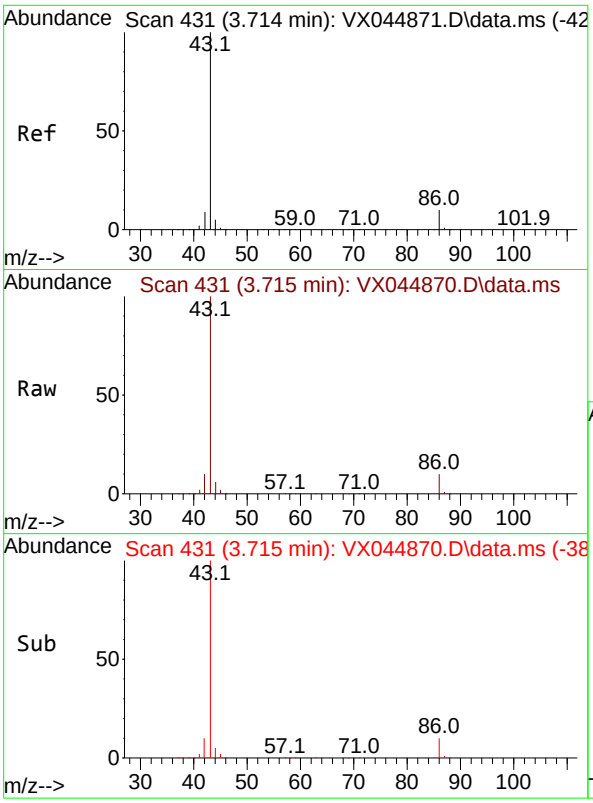


#22
Diisopropyl ether
Concen: 21.074 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 45 Resp: 120300

Ion	Ratio	Lower	Upper
45	100		
43	80.8	58.0	87.0
87	25.8	20.7	31.1
59	11.3	9.2	13.8



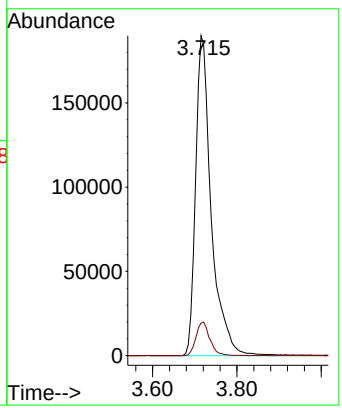


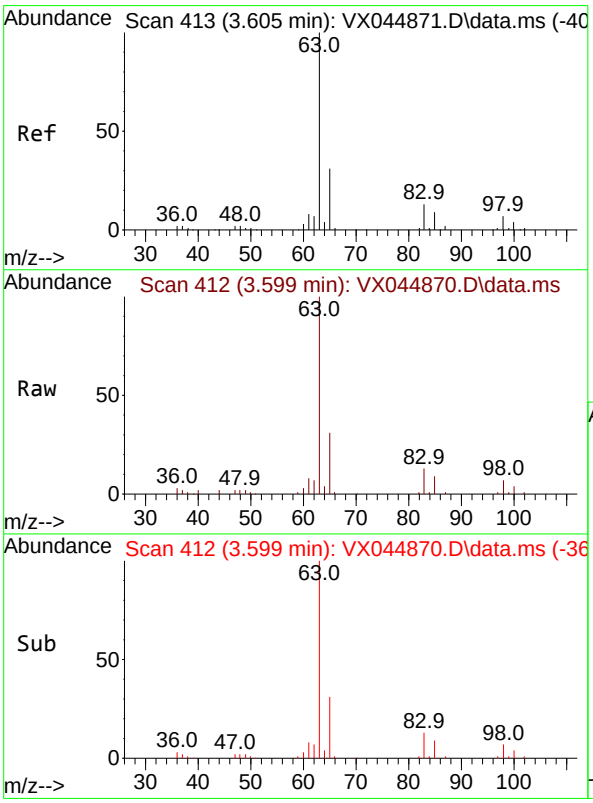
#23
Vinyl Acetate
Concen: 105.341 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 490239

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.3	12.5

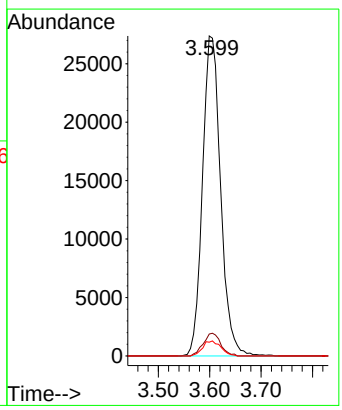


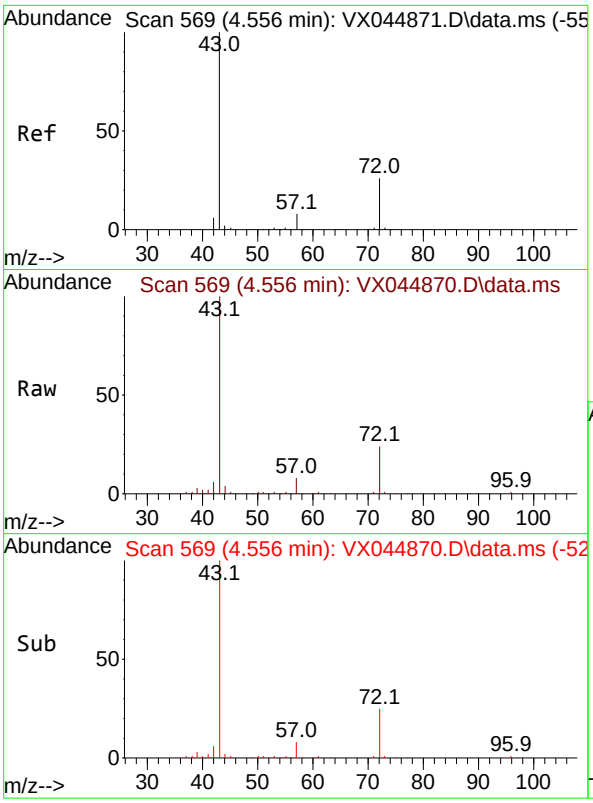


#24
1,1-Dichloroethane
Concen: 20.958 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 66942

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.3	9.9
100	4.3	2.1	6.5



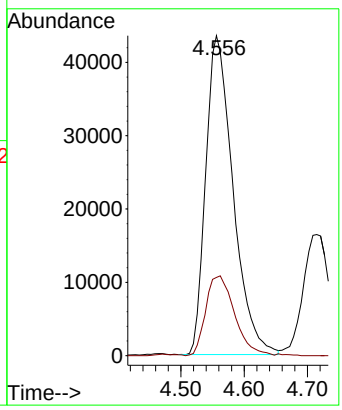


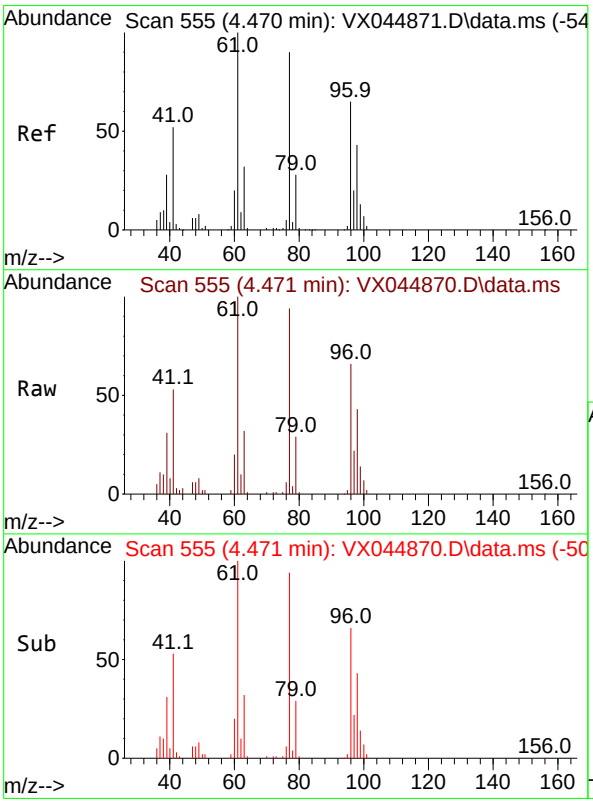
#25
2-Butanone
Concen: 105.417 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 130481

Ion	Ratio	Lower	Upper
43	100		
72	24.2	21.2	31.8

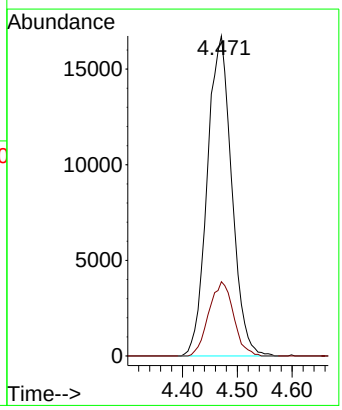


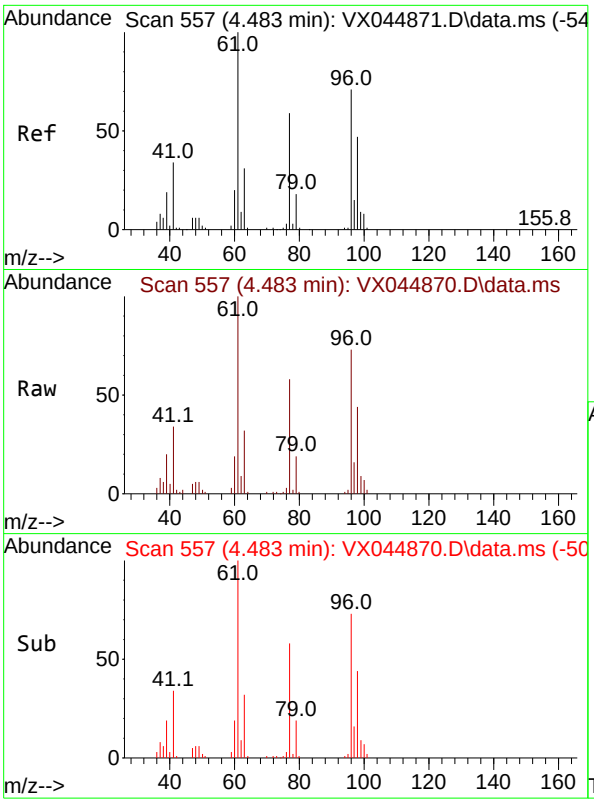


#26
2,2-Dichloropropane
Concen: 20.451 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 77 Resp: 51803

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.8	35.3



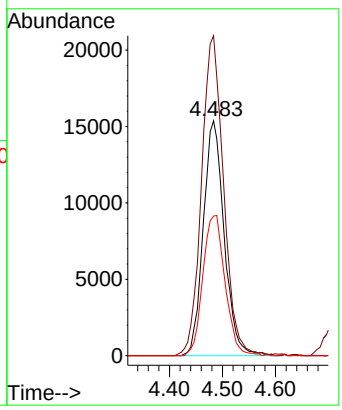


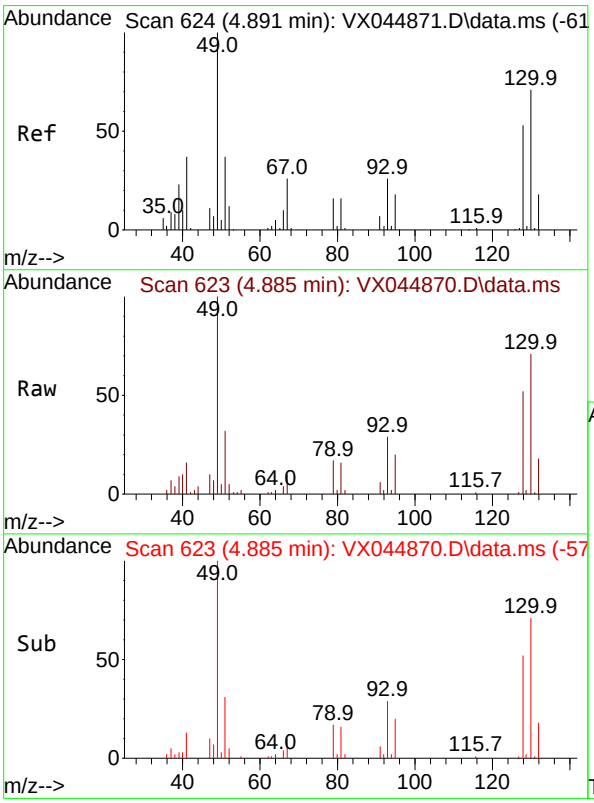
#27
cis-1,2-Dichloroethene
Concen: 21.328 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 42096

Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	294.0
98	63.4	0.0	131.2

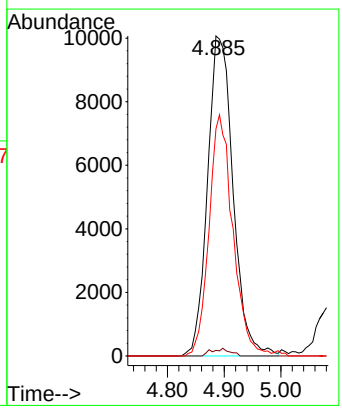


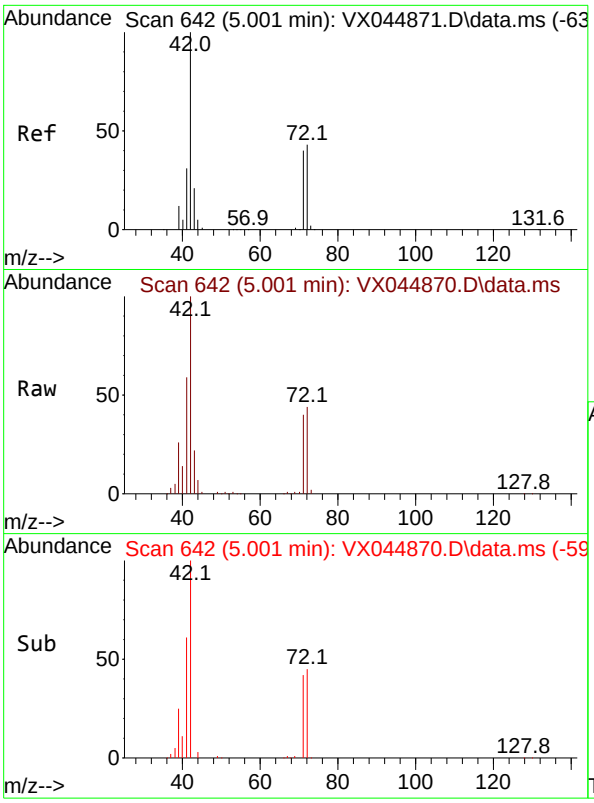


#28
Bromochloromethane
Concen: 20.504 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 49 Resp: 31474

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	70.3	56.7	85.1



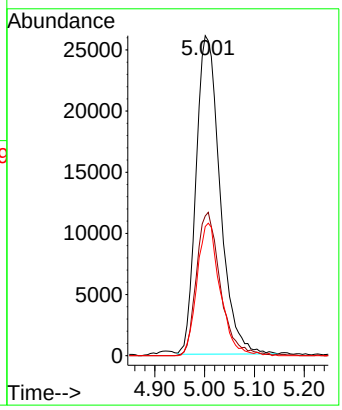


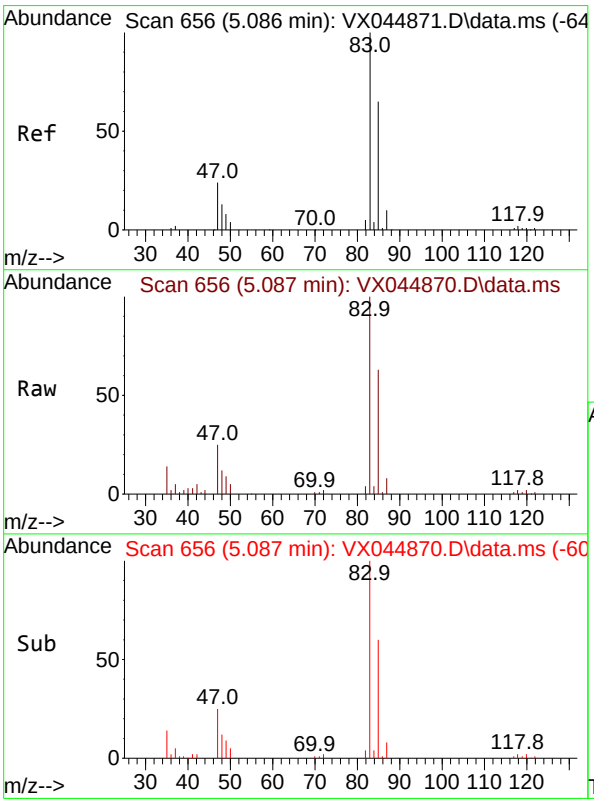
#29
Tetrahydrofuran
Concen: 105.700 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 86875

Ion	Ratio	Lower	Upper
42	100		
72	44.9	35.0	52.4
71	40.4	32.6	48.8

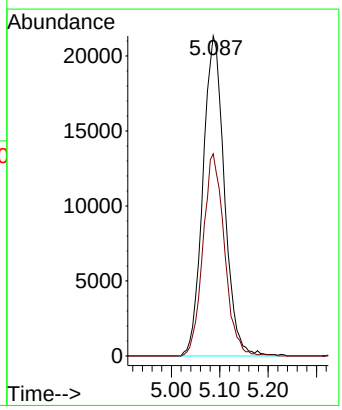


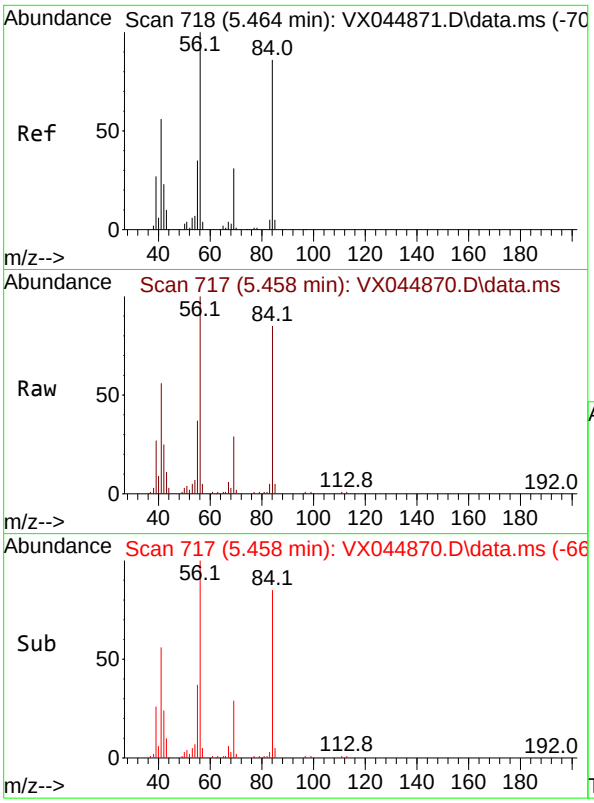


#30
Chloroform
Concen: 21.217 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 83 Resp: 65721

Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.1	78.1



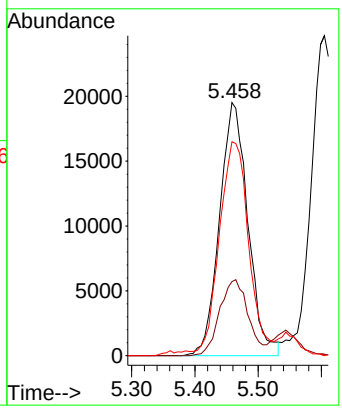


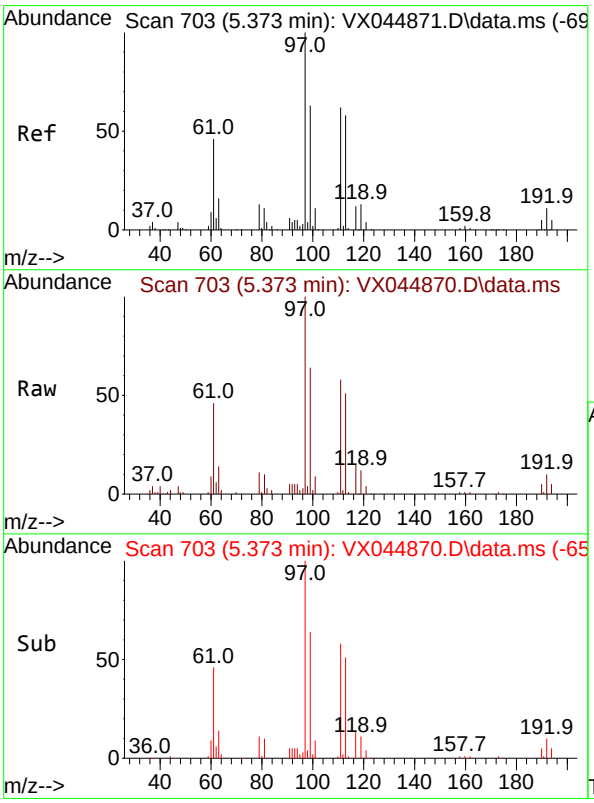
#31
Cyclohexane
Concen: 20.653 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 60814

Ion	Ratio	Lower	Upper
56	100		
69	29.2	24.4	36.6
84	83.1	69.0	103.6

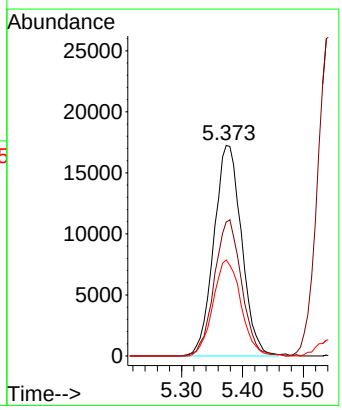


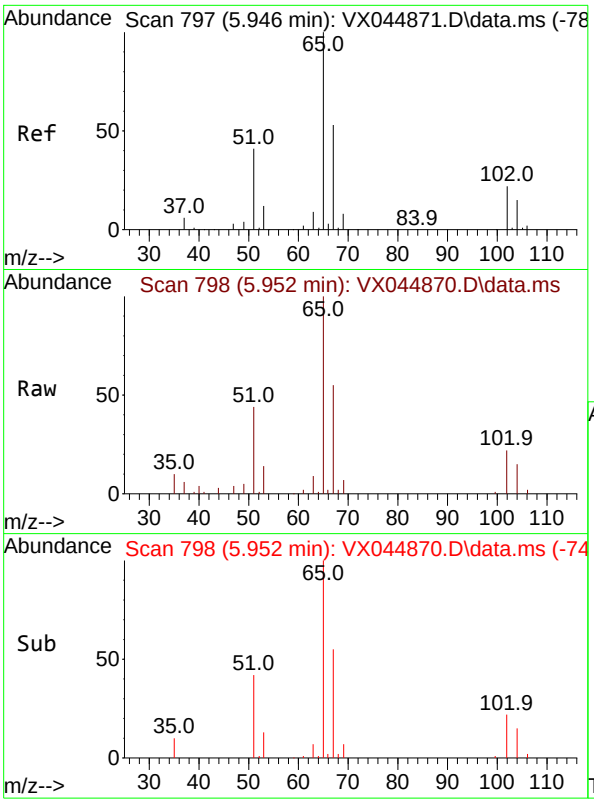


#32
1,1,1-Trichloroethane
Concen: 20.724 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 97 Resp: 54450

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.0	76.6
61	45.9	36.6	55.0



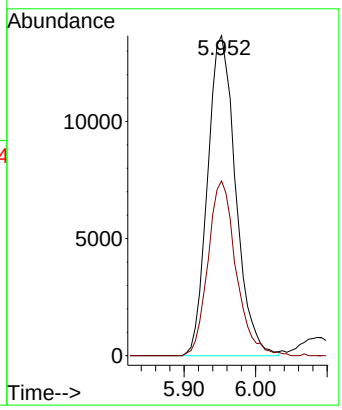


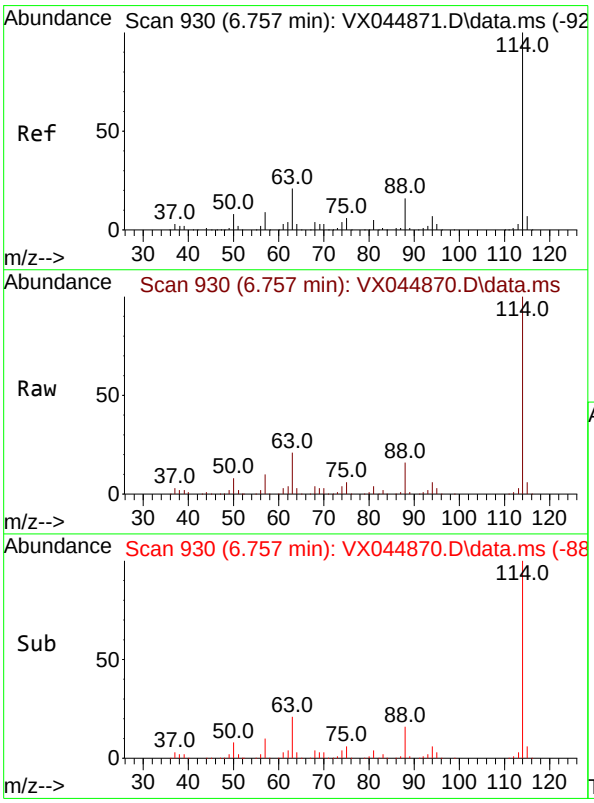
#33
1,2-Dichloroethane-d4
Concen: 19.616 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 37195

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	108.2

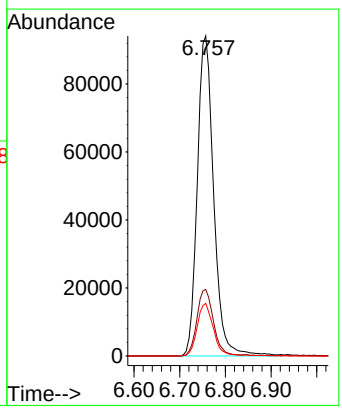


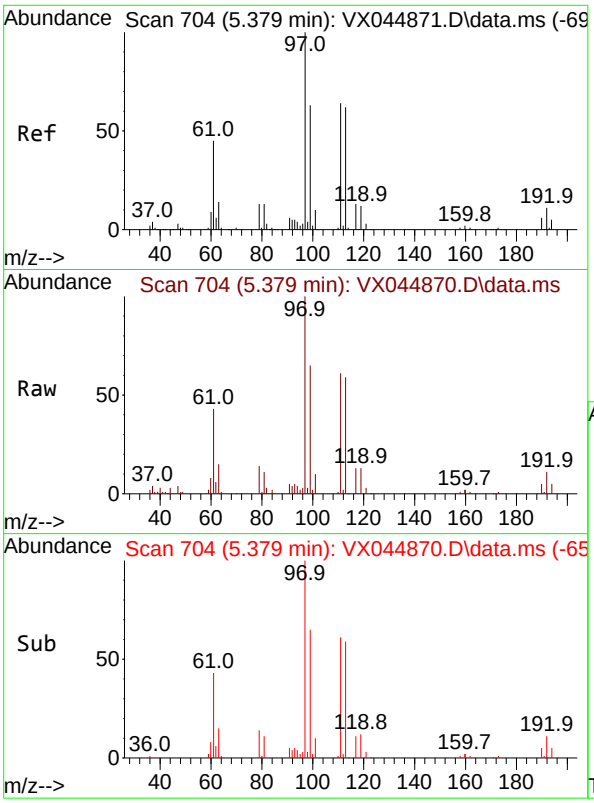


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:114 Resp: 234445

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.4
88	16.4	0.0	31.4



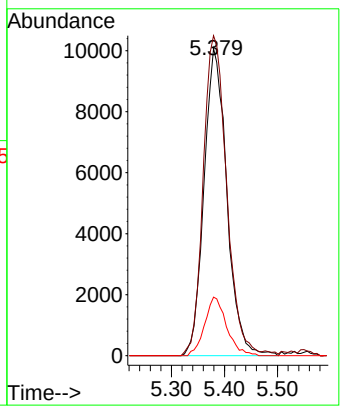


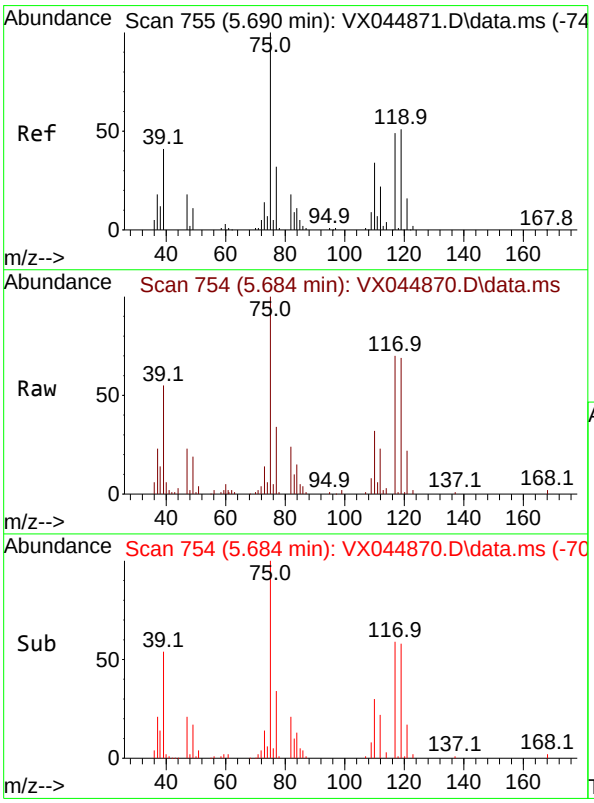
#35
Dibromofluoromethane
Concen: 19.793 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 30170

Ion	Ratio	Lower	Upper
113	100		
111	106.3	83.5	125.3
192	18.3	14.4	21.6

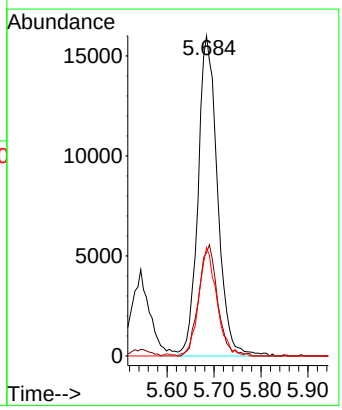


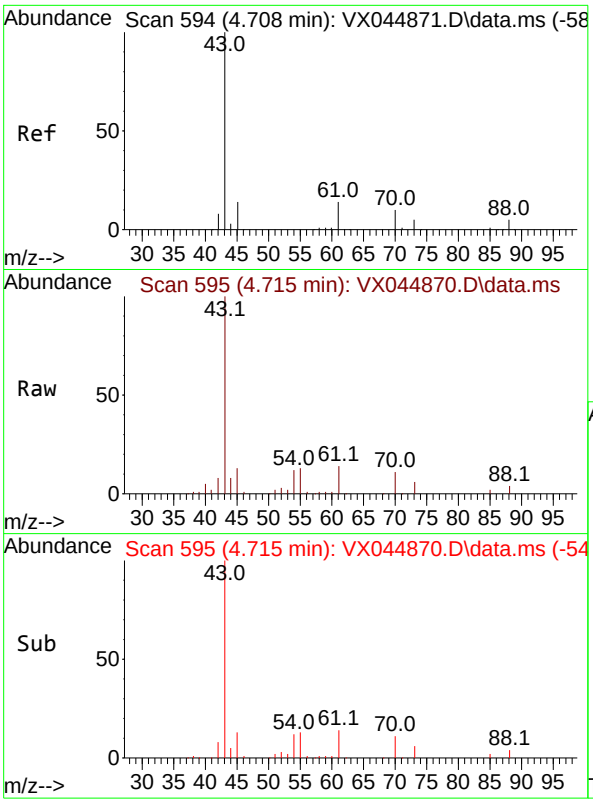


#36
1,1-Dichloropropene
Concen: 20.913 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 45991

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.2	51.6
77	31.7	24.6	37.0



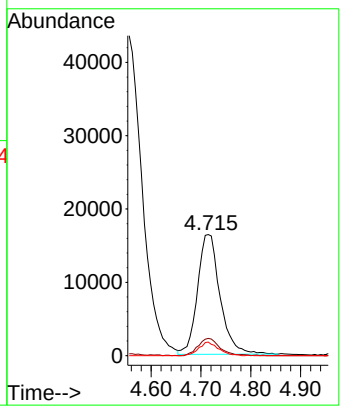


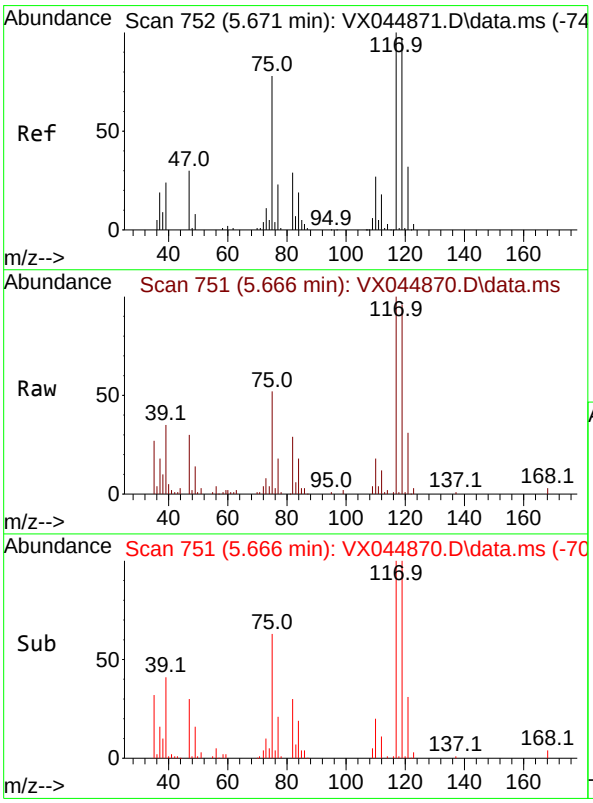
#37
Ethyl Acetate
Concen: 20.949 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 51242

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.4
70	9.9	8.2	12.2

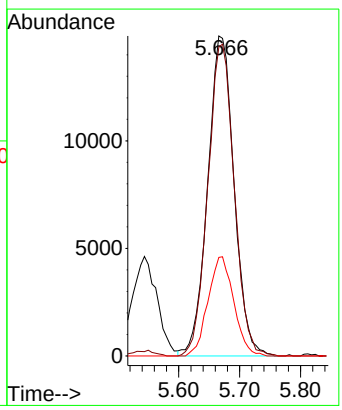


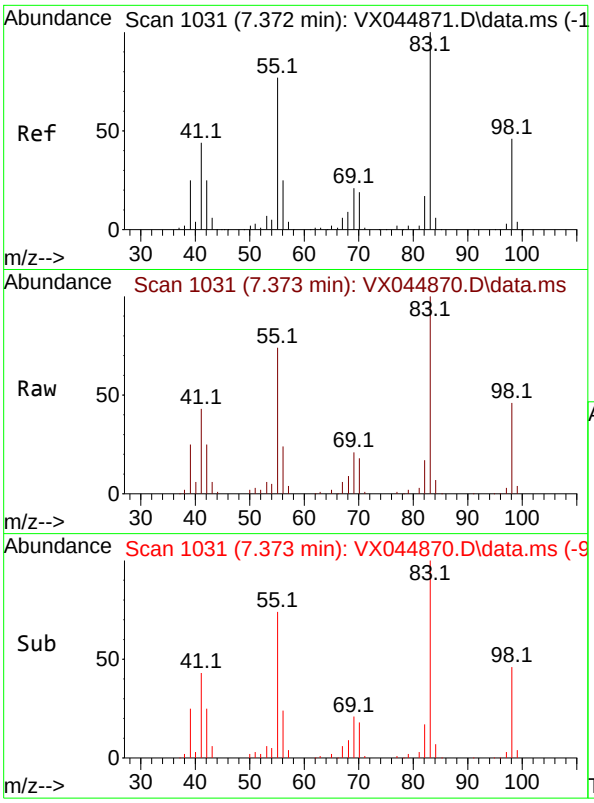


#38
Carbon Tetrachloride
Concen: 20.790 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 44802

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.5	116.3
121	30.8	25.6	38.4



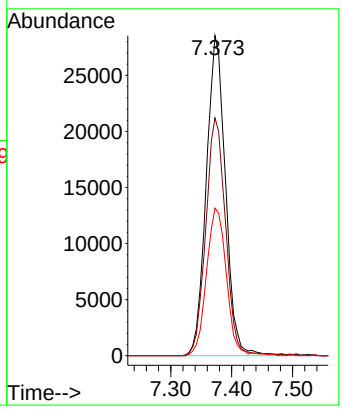


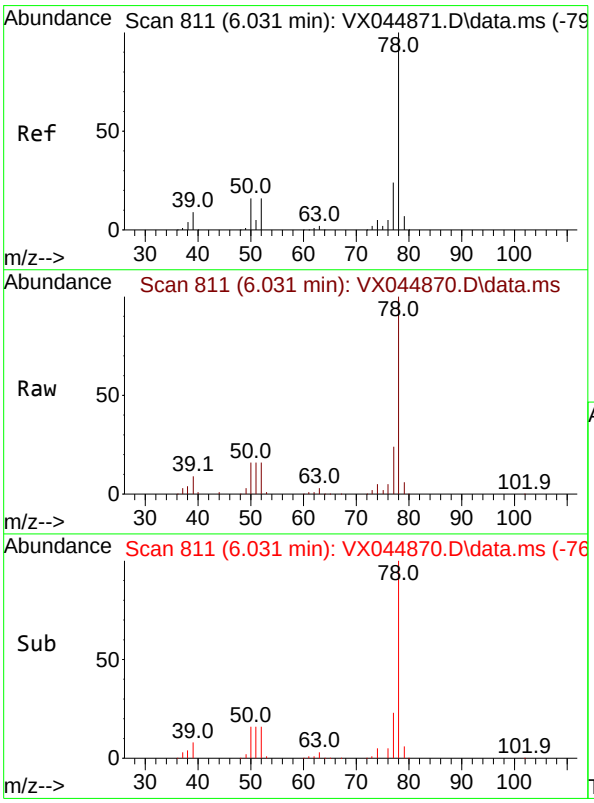
#39
Methylcyclohexane
Concen: 21.985 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 62505

Ion	Ratio	Lower	Upper
83	100		
55	74.3	61.3	91.9
98	46.1	37.0	55.6

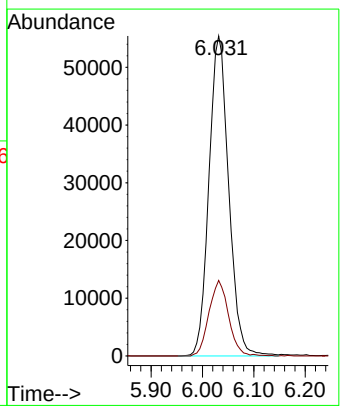


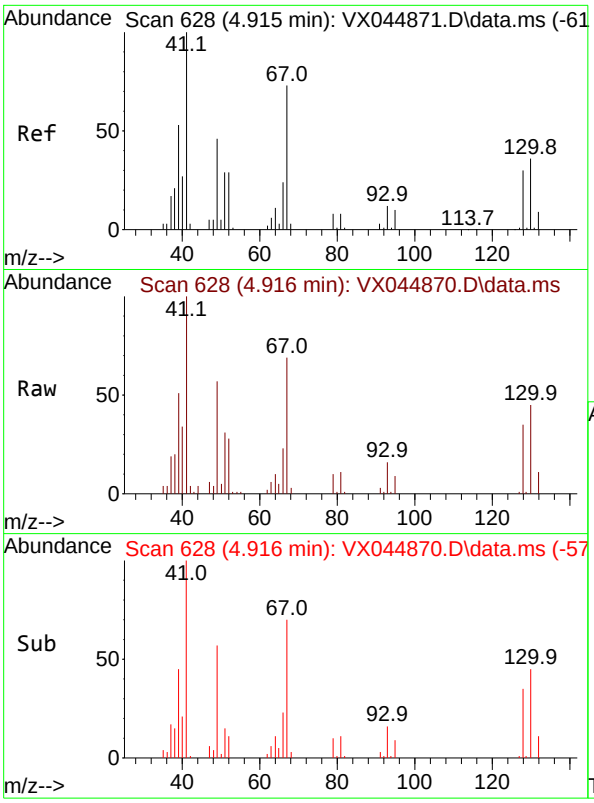


#40
Benzene
Concen: 21.540 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 78 Resp: 147912

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6



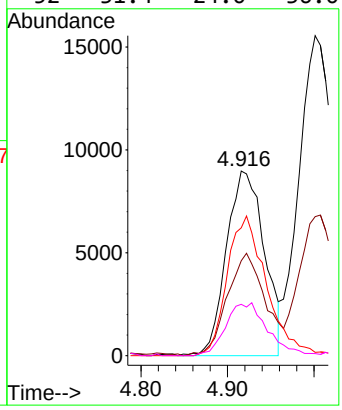


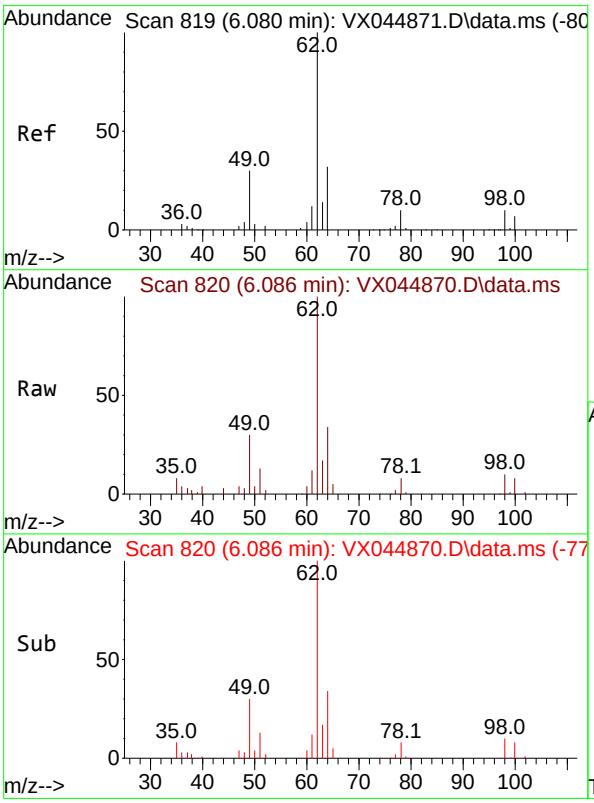
#41
Methacrylonitrile
Concen: 20.887 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 27347

Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.1	64.7
67	78.6	57.0	85.6
52	31.4	24.0	36.0

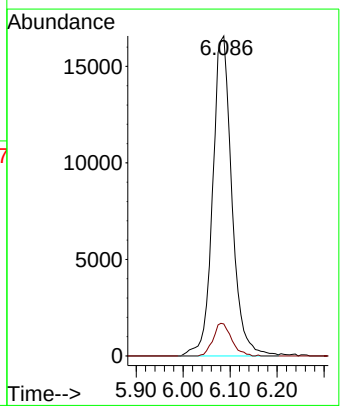


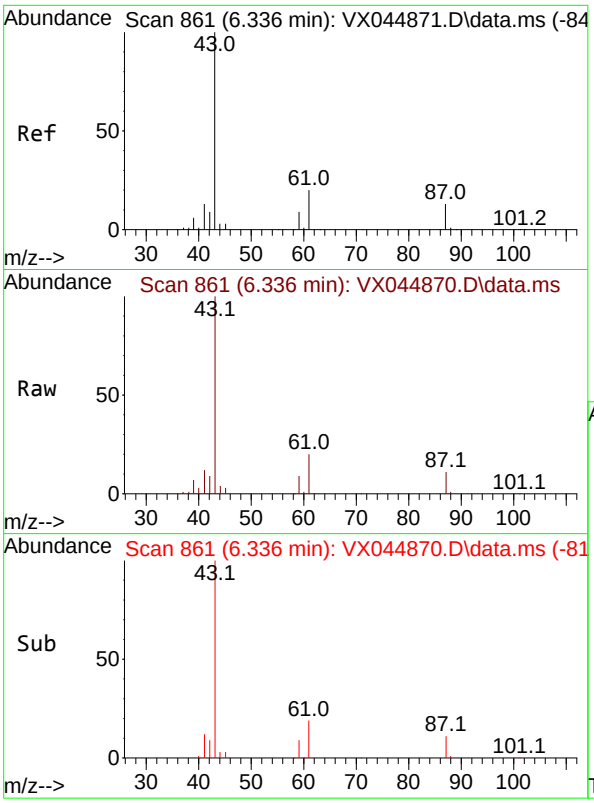


#42
1,2-Dichloroethane
Concen: 21.519 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 62 Resp: 47095

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4



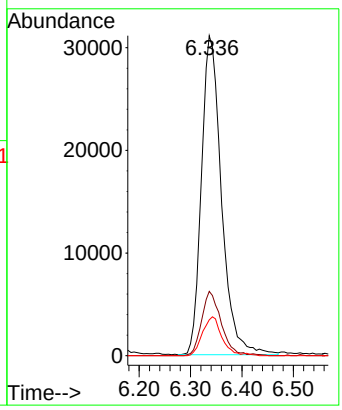


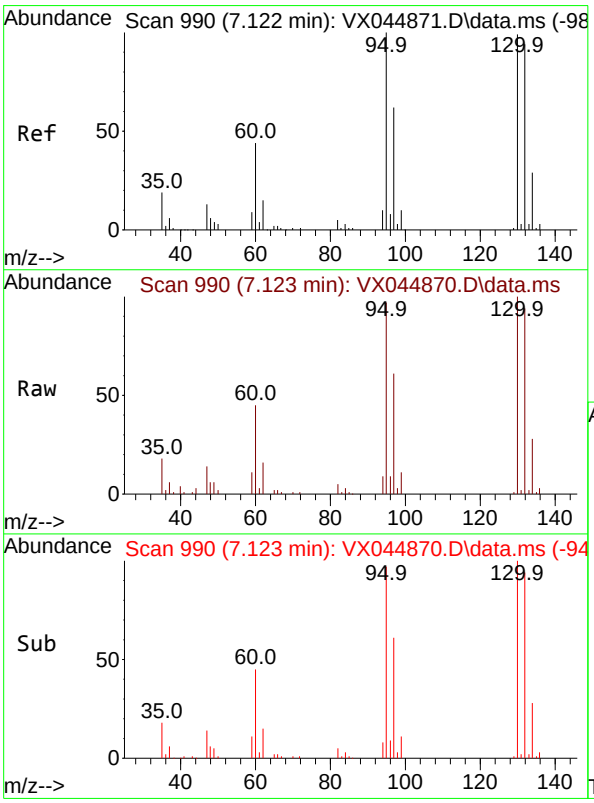
#43
Isopropyl Acetate
Concen: 21.343 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 84306

Ion	Ratio	Lower	Upper
43	100		
61	19.5	15.8	23.8
87	11.6	10.0	15.0

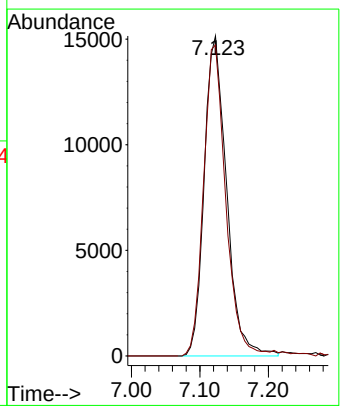


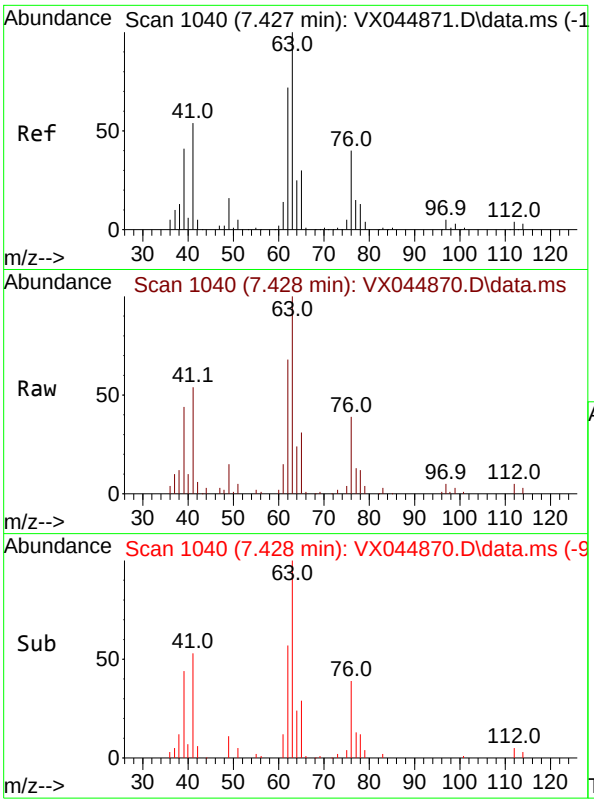


#44
Trichloroethene
Concen: 21.910 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:130 Resp: 34390

Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	202.4



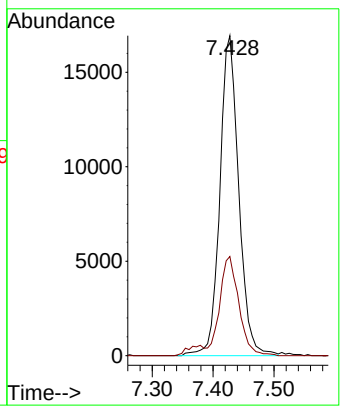


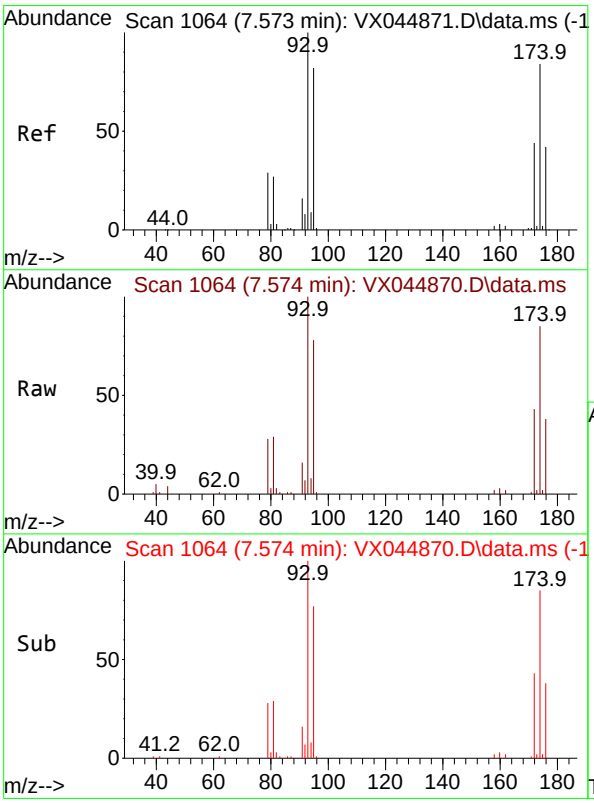
#45
1,2-Dichloropropane
Concen: 21.371 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 36510

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.2	36.4

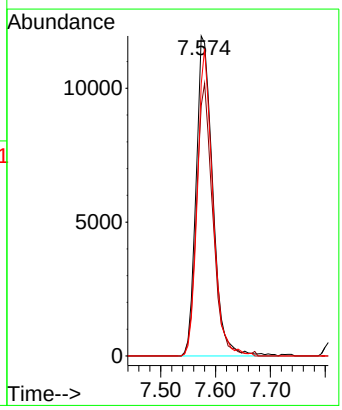


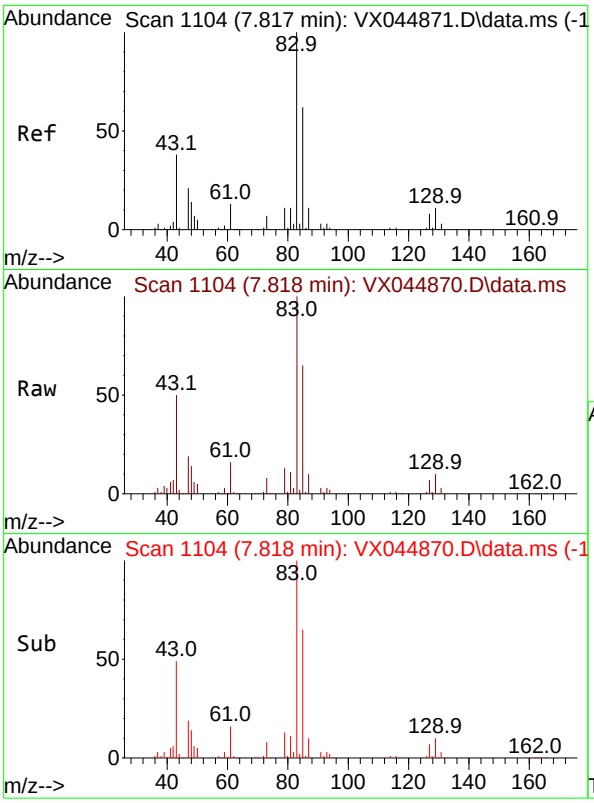


#46
Dibromomethane
Concen: 21.354 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 93 Resp: 25300

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.2	99.4
174	88.6	69.9	104.9



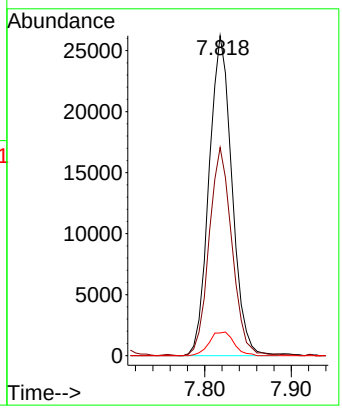


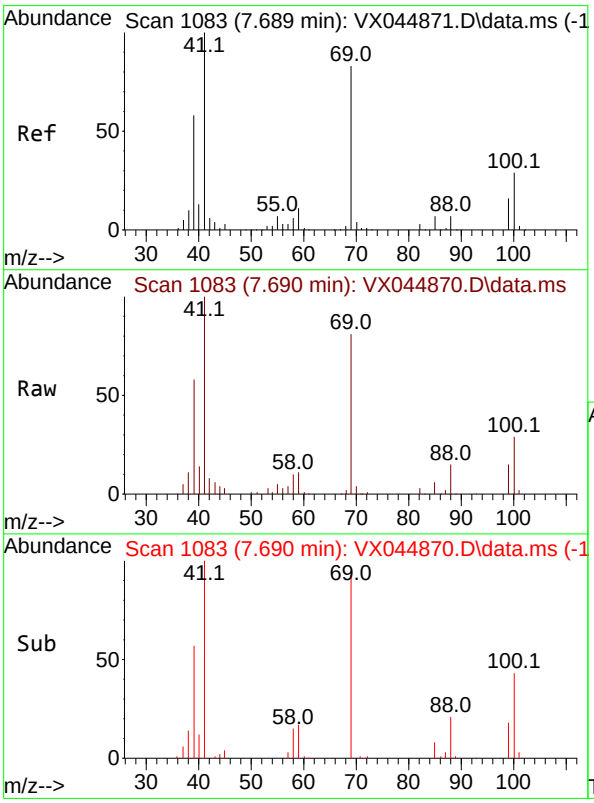
#47
Bromodichloromethane
Concen: 21.012 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 48202

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.0	75.0
127	7.1	6.4	9.6

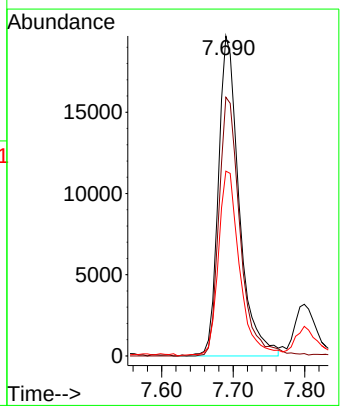


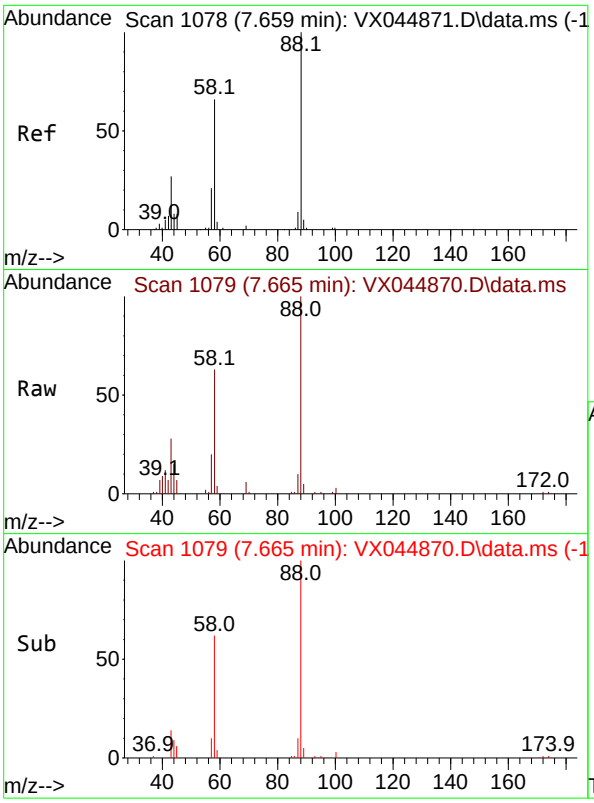


#48
Methyl methacrylate
Concen: 21.341 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 41 Resp: 39747

Ion	Ratio	Lower	Upper
41	100		
69	82.5	65.8	98.8
39	58.2	46.4	69.6



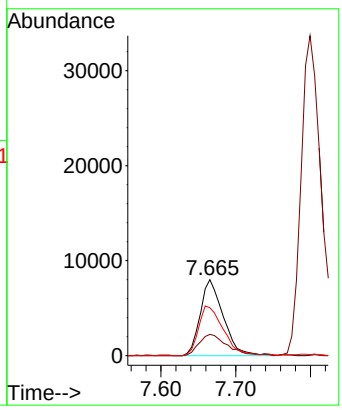


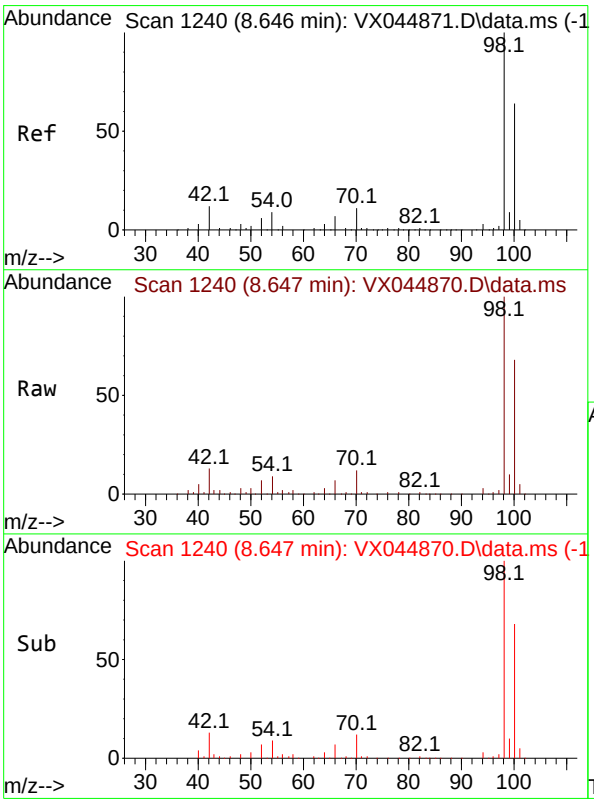
#49
1,4-Dioxane
Concen: 429.262 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 17153

Ion	Ratio	Lower	Upper
88	100		
43	34.3	26.6	39.8
58	69.3	55.9	83.9

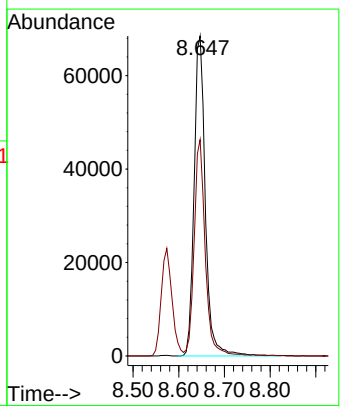


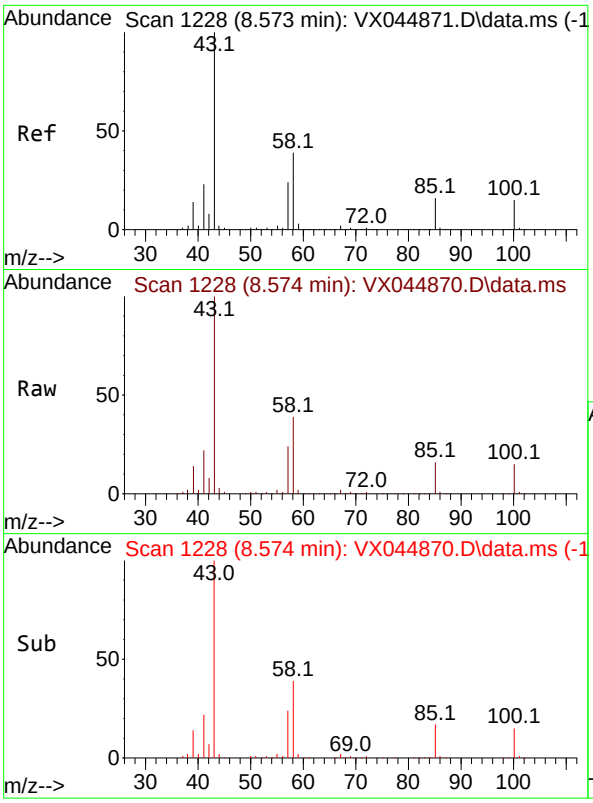


#50
Toluene-d8
Concen: 20.321 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 98 Resp: 117127

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.7	79.1



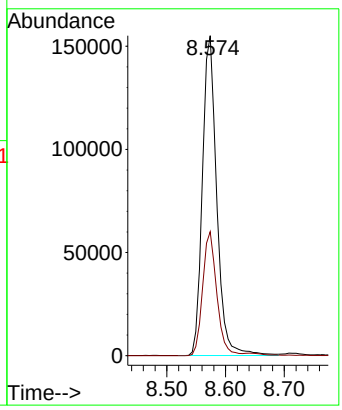


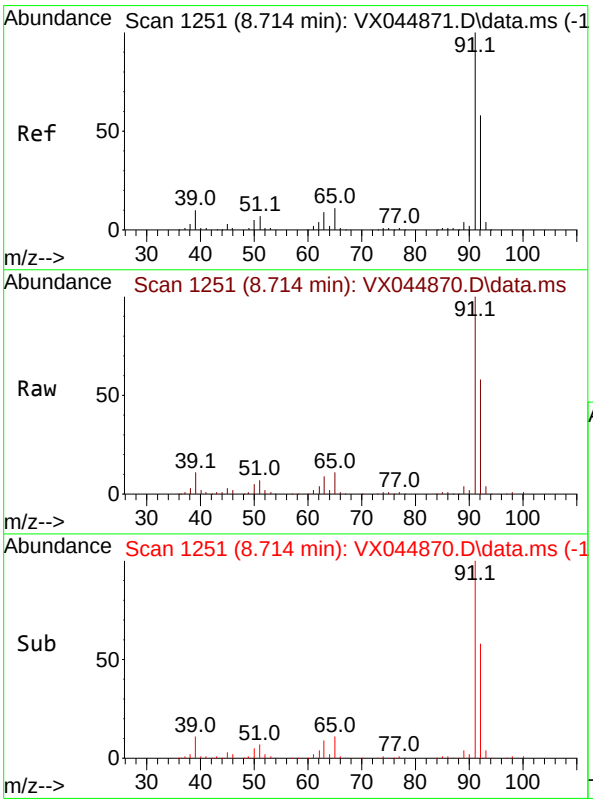
#51
4-Methyl-2-Pentanone
Concen: 109.684 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 263394

Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.8	46.2

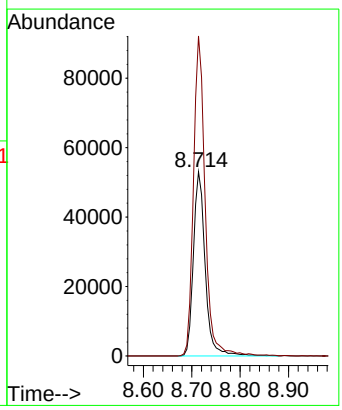


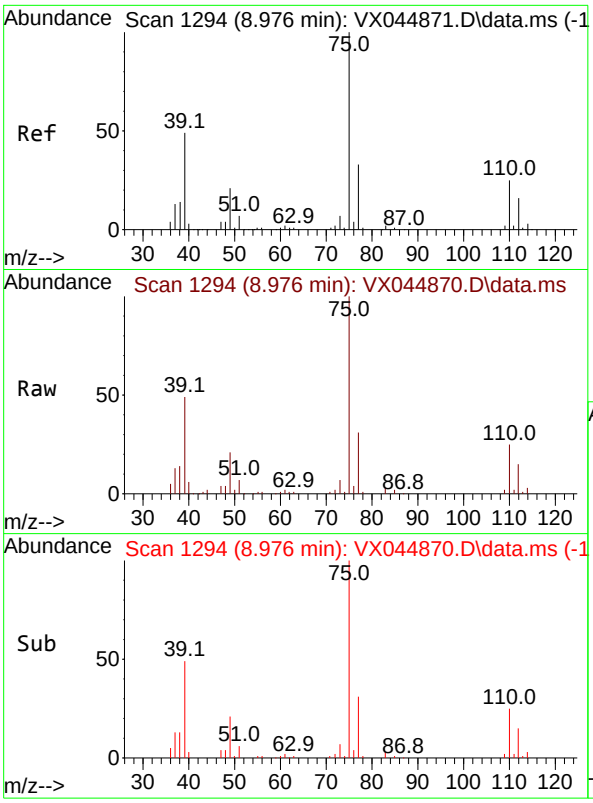


#52
Toluene
Concen: 21.940 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 92 Resp: 89726

Ion	Ratio	Lower	Upper
92	100		
91	171.0	137.4	206.2



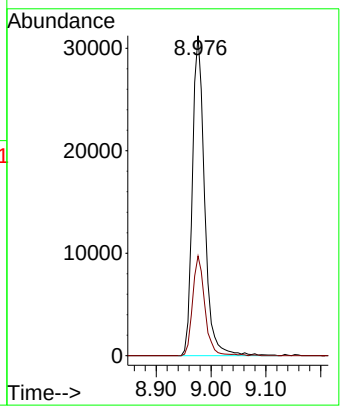


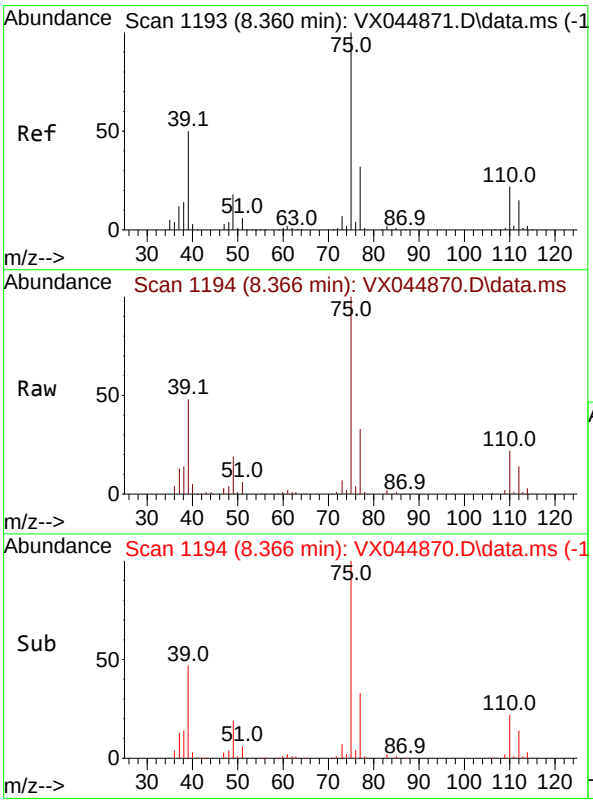
#53
t-1,3-Dichloropropene
Concen: 20.940 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 48613

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

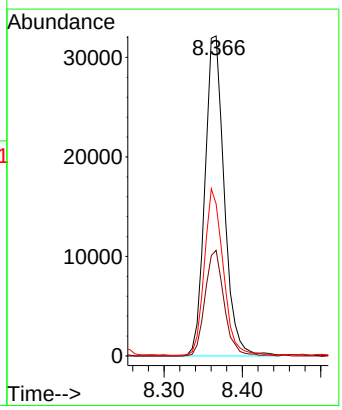


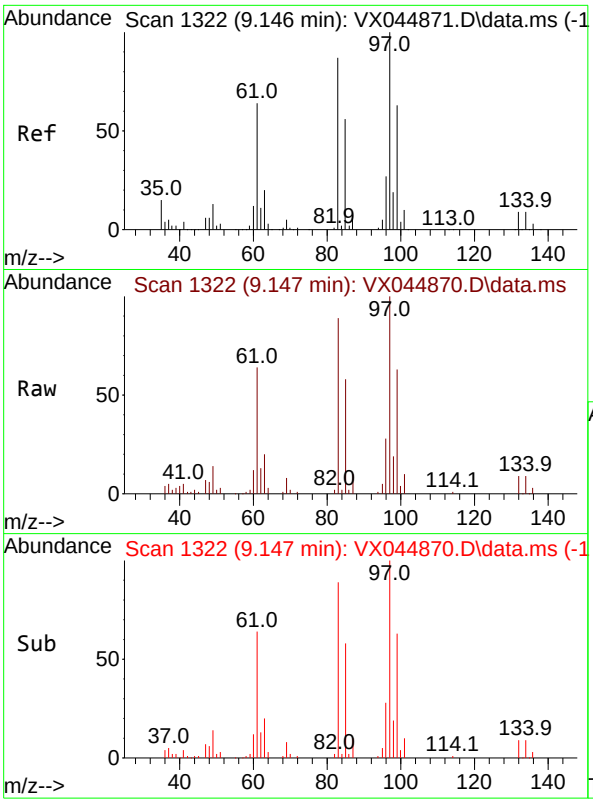


#54
cis-1,3-Dichloropropene
Concen: 21.259 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 55026

Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.3	37.9
39	47.3	40.0	60.0



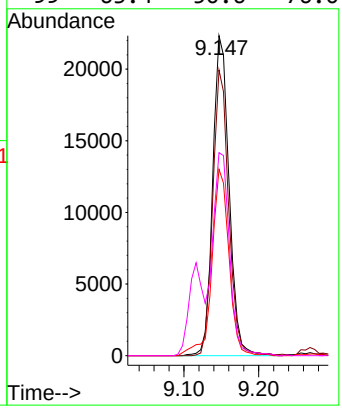


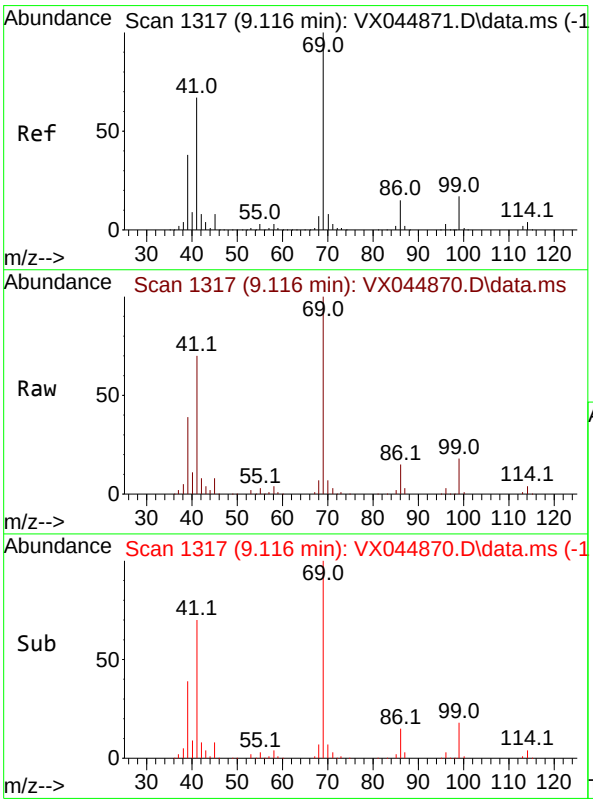
#55
1,1,2-Trichloroethane
Concen: 21.582 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 33930

Ion	Ratio	Lower	Upper
97	100		
83	89.3	69.8	104.6
85	58.3	44.8	67.2
99	63.4	50.6	76.0

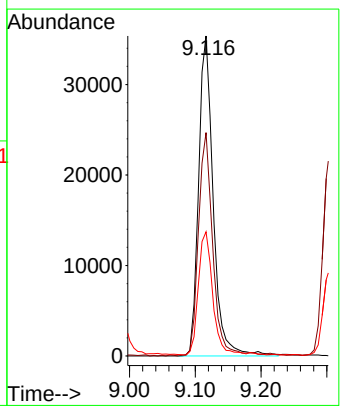


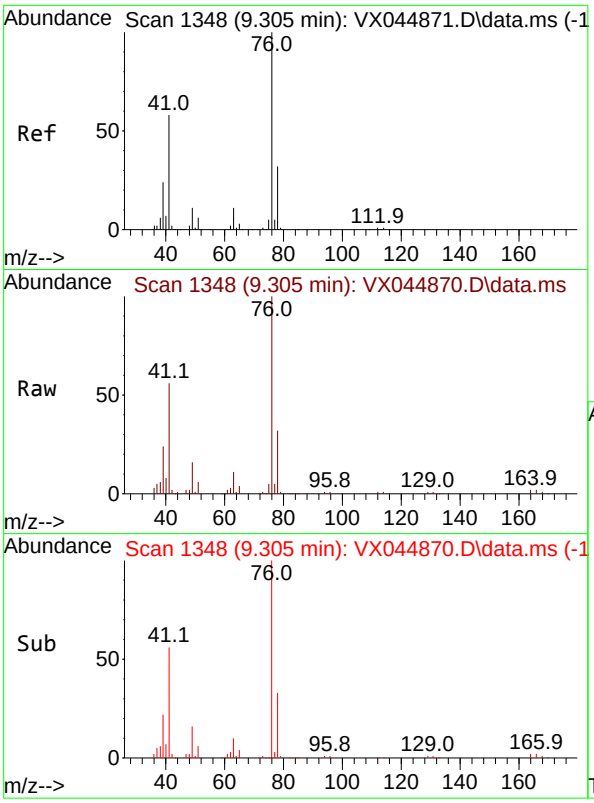


#56
Ethyl methacrylate
Concen: 21.533 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 69 Resp: 54674

Ion	Ratio	Lower	Upper
69	100		
41	68.4	55.2	82.8
39	37.4	30.8	46.2



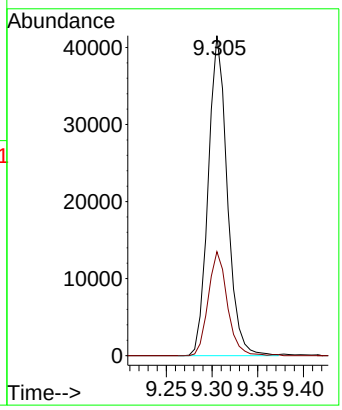


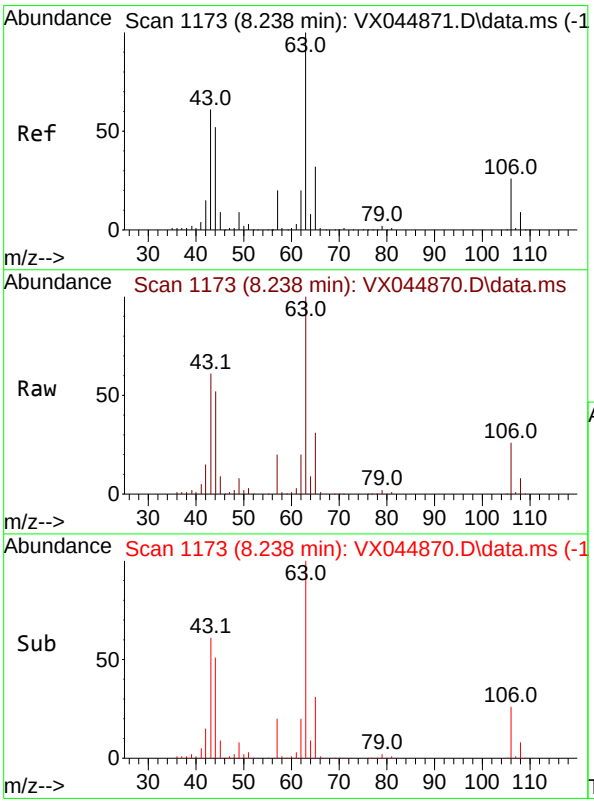
#57
1,3-Dichloropropane
Concen: 21.841 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 60079

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8

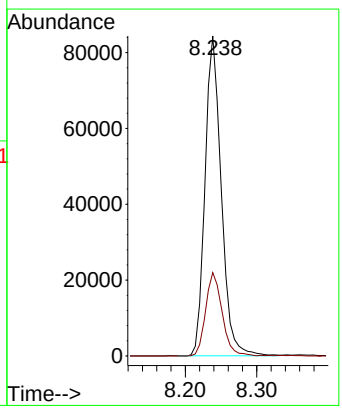


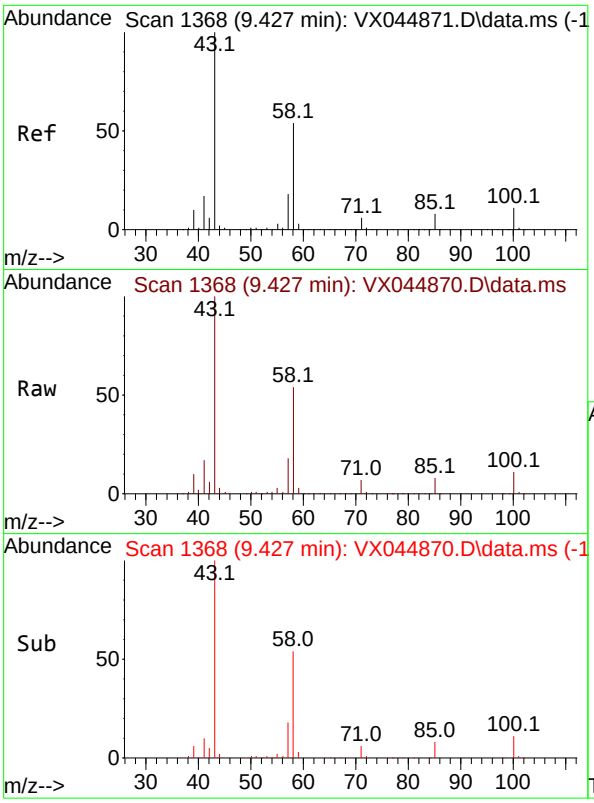


#58
2-Chloroethyl Vinyl ether
Concen: 106.736 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 63 Resp: 133072

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9



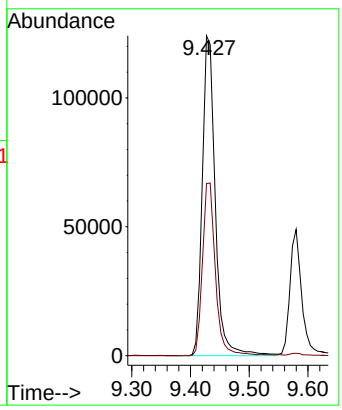


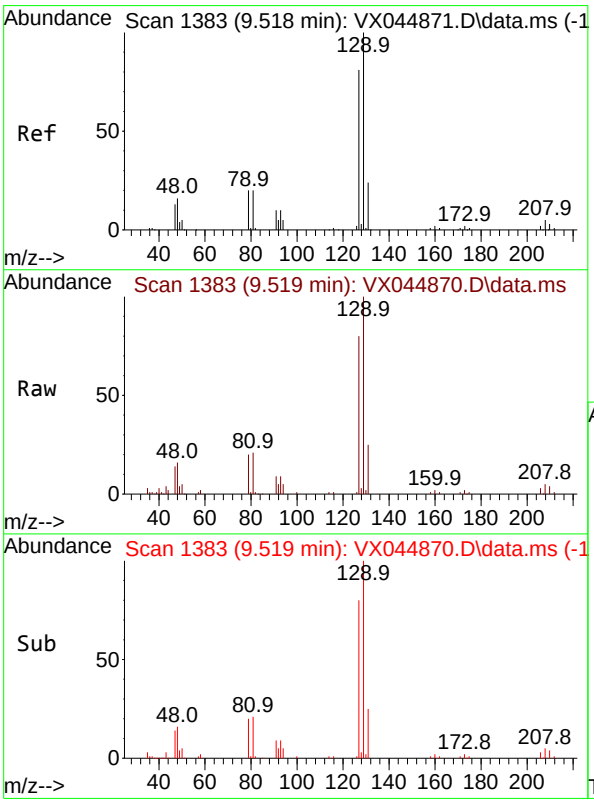
#59
2-Hexanone
Concen: 110.072 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 190449

Ion	Ratio	Lower	Upper
43	100		
58	53.5	27.5	82.4

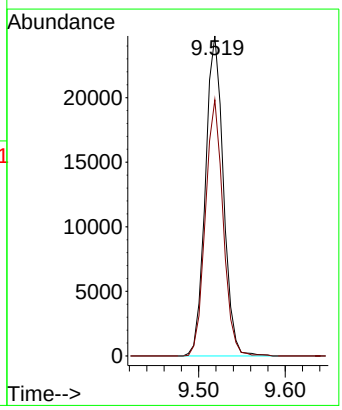


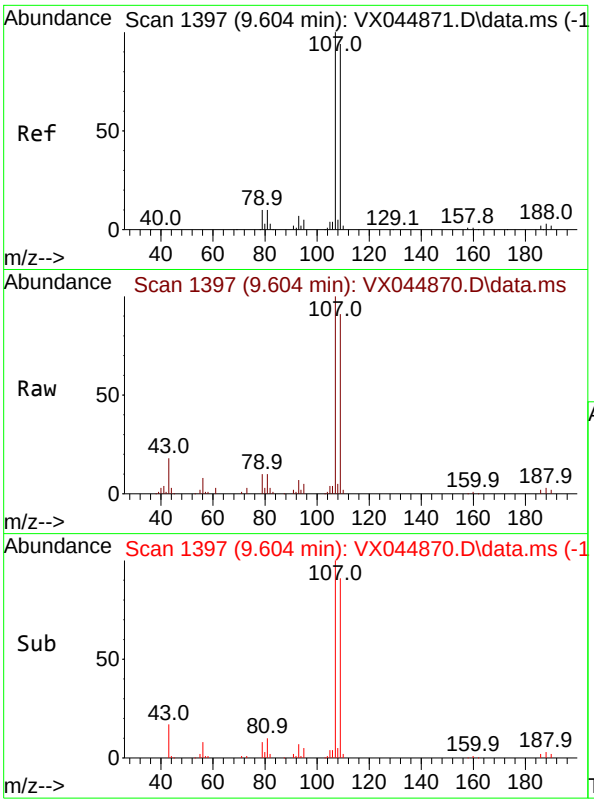


#60
Dibromochloromethane
Concen: 21.237 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:129 Resp: 35706

Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.1	117.3



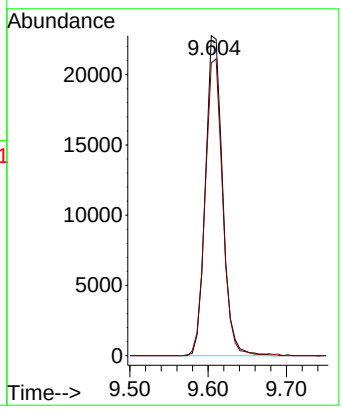


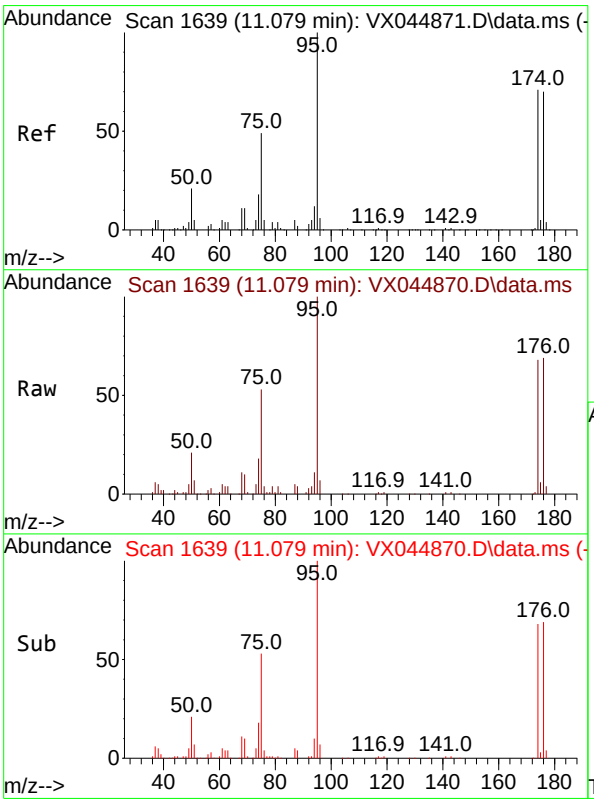
#61
1,2-Dibromoethane
Concen: 21.628 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 34463

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9

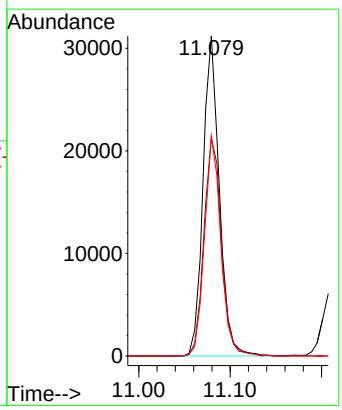


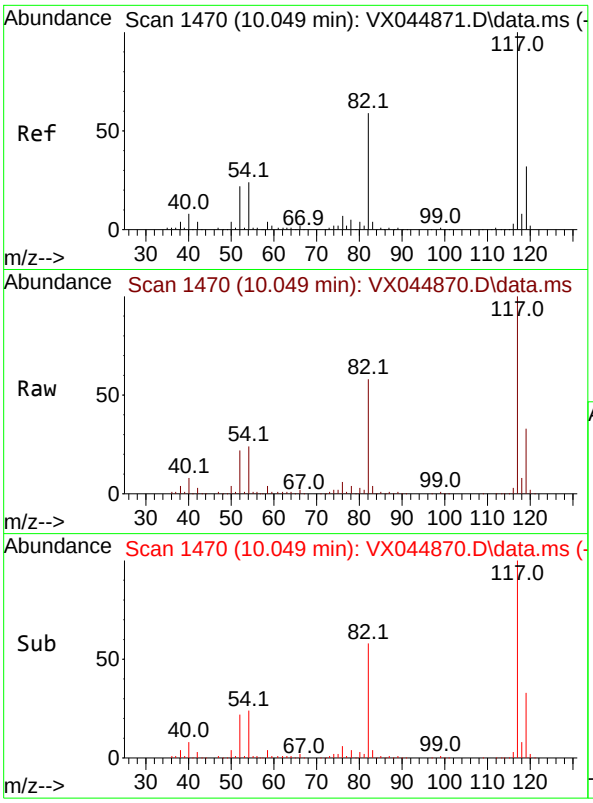


#62
4-Bromofluorobenzene
Concen: 19.800 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 95 Resp: 38475

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	142.6
176	69.0	0.0	141.6



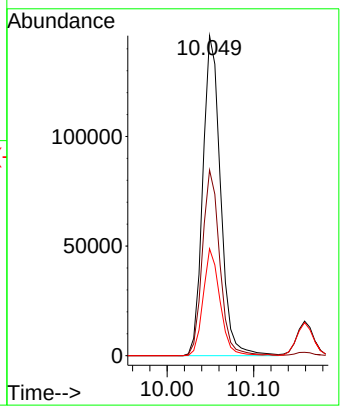


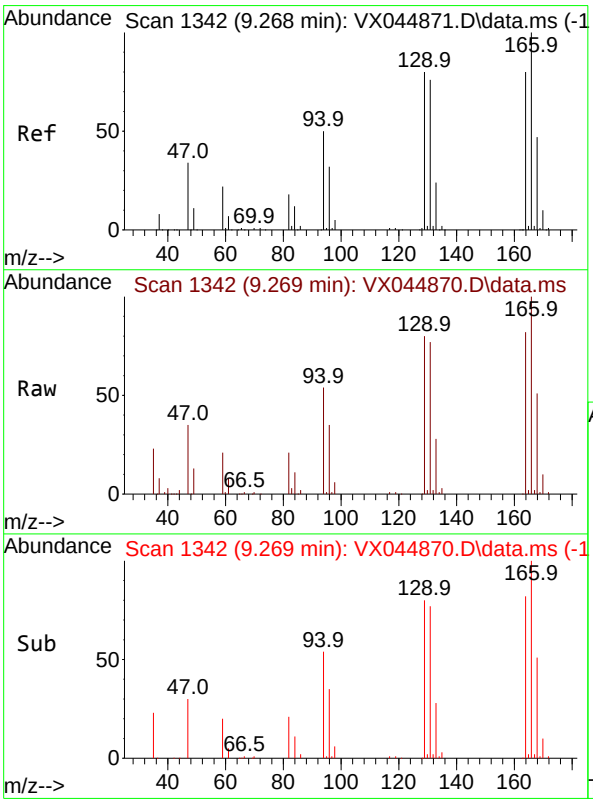
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 207667

Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.5	71.3
119	33.4	25.4	38.0

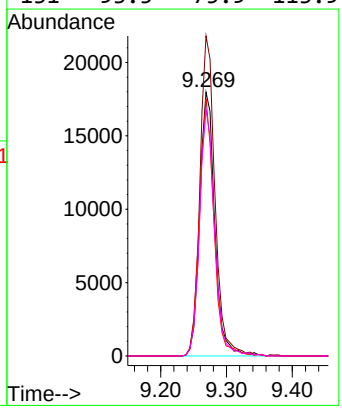


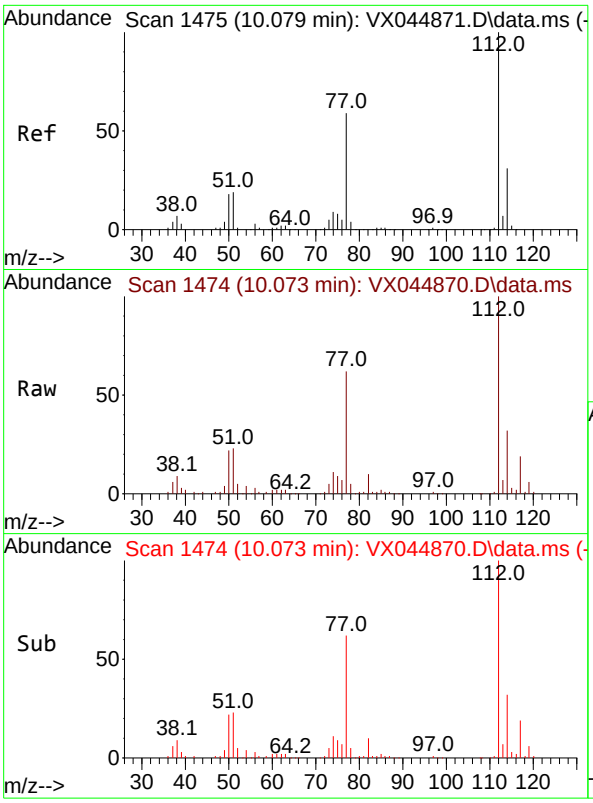


#64
Tetrachloroethene
Concen: 21.776 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:164 Resp: 28519

Ion	Ratio	Lower	Upper
164	100		
166	121.4	100.4	150.6
129	97.6	79.9	119.9
131	93.5	75.9	113.9



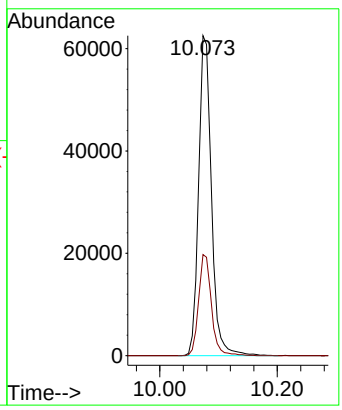


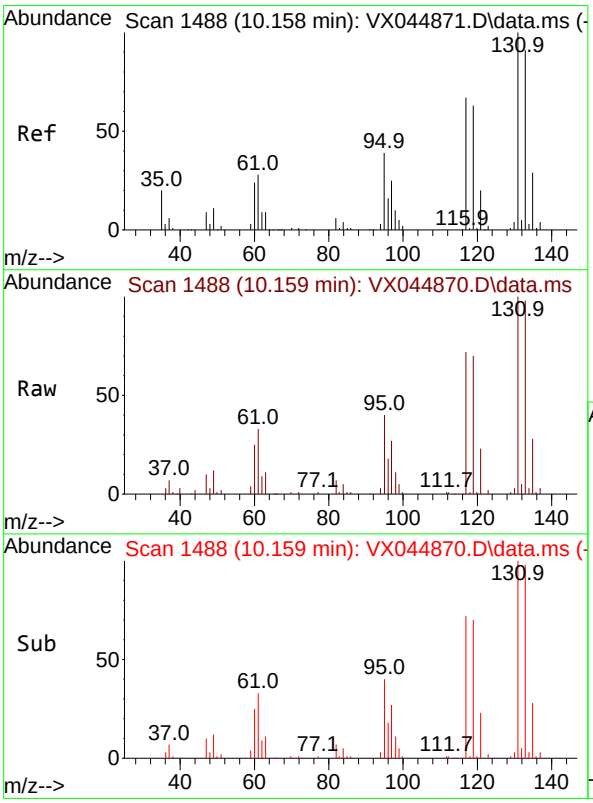
#65
Chlorobenzene
Concen: 21.230 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 94695

Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.0	37.6

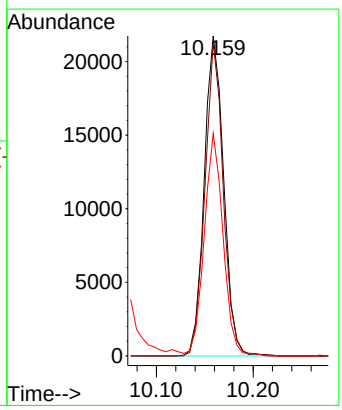


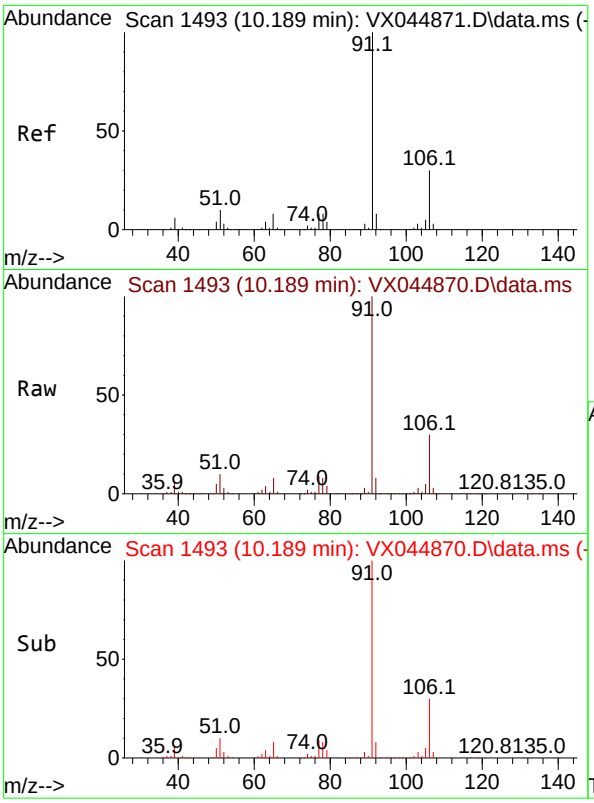


#66
1,1,1,2-Tetrachloroethane
Concen: 21.136 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:131 Resp: 30344

Ion	Ratio	Lower	Upper
131	100		
133	92.9	47.1	141.3
119	67.4	33.6	100.6



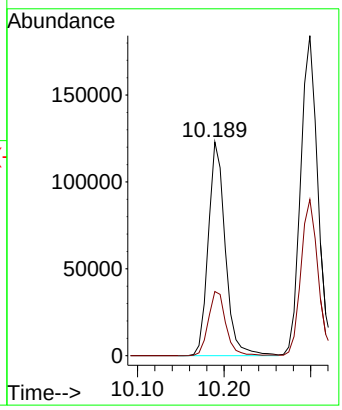


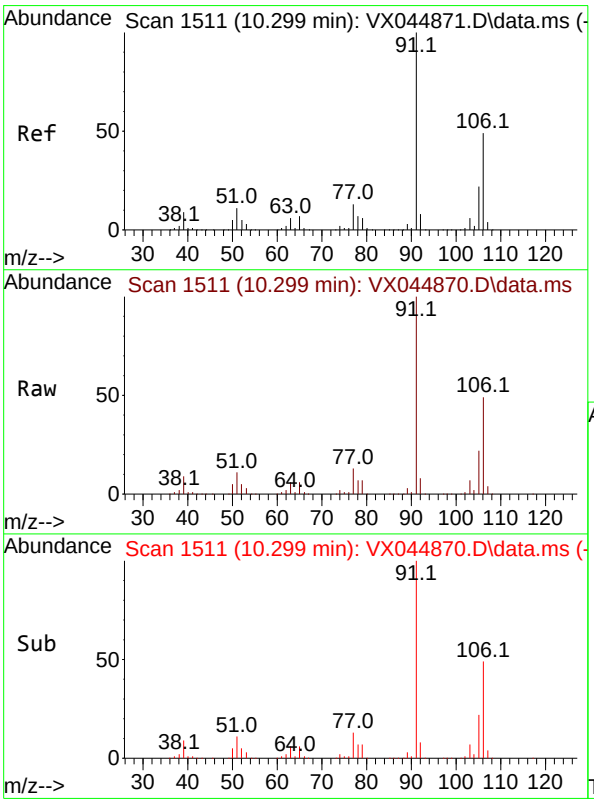
#67
Ethyl Benzene
Concen: 21.327 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 167865

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

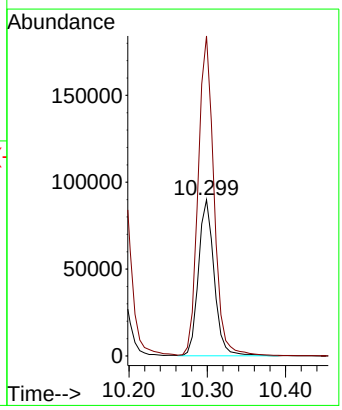


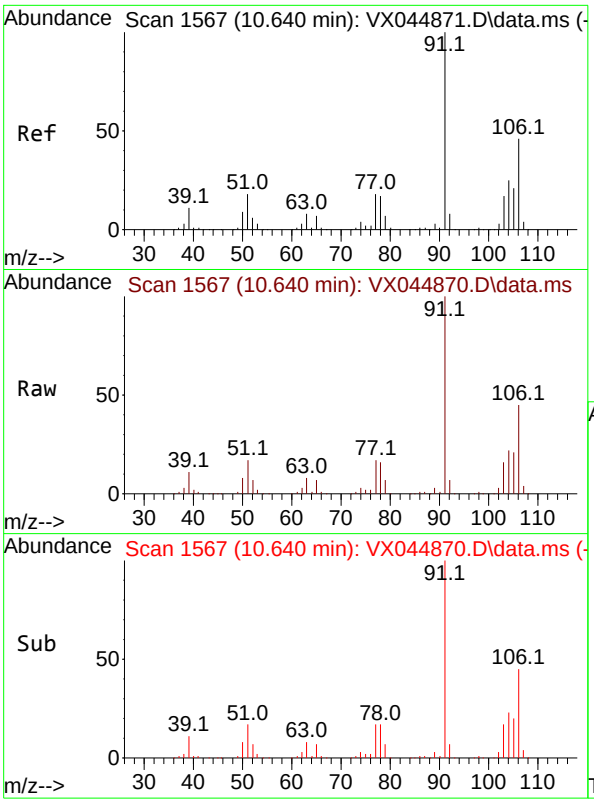


#68
m/p-Xylenes
Concen: 43.144 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:106 Resp: 125271

Ion	Ratio	Lower	Upper
106	100		
91	206.3	164.3	246.5



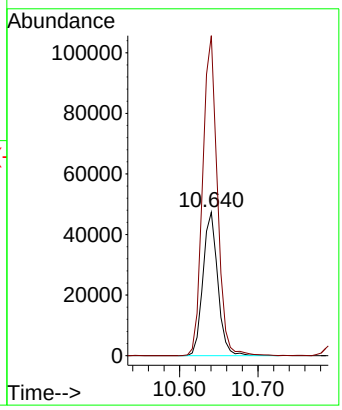


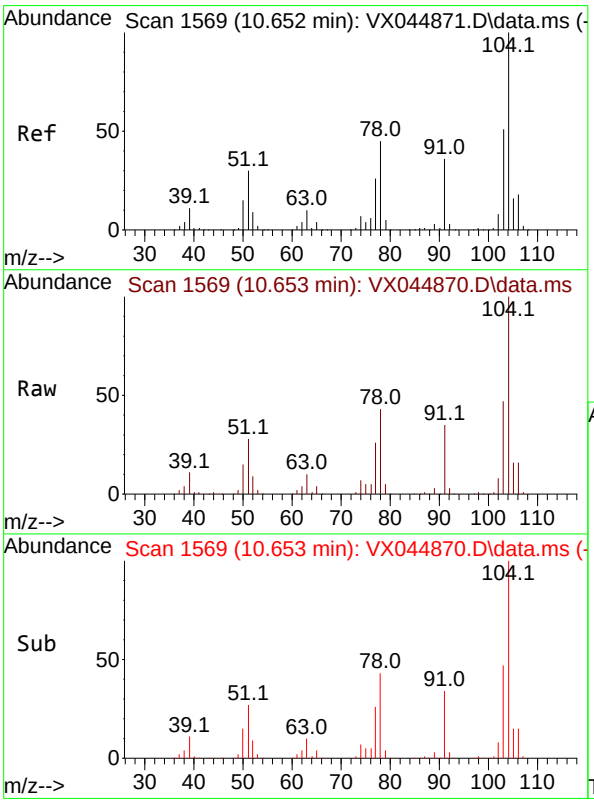
#69
o-Xylene
Concen: 21.310 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 62087

Ion	Ratio	Lower	Upper
106	100		
91	221.5	108.5	325.5

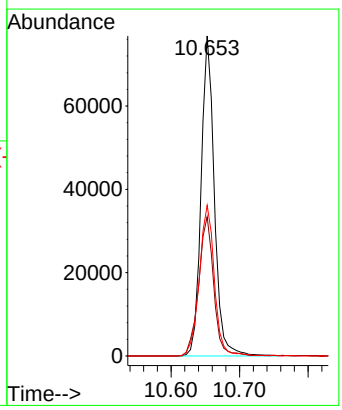


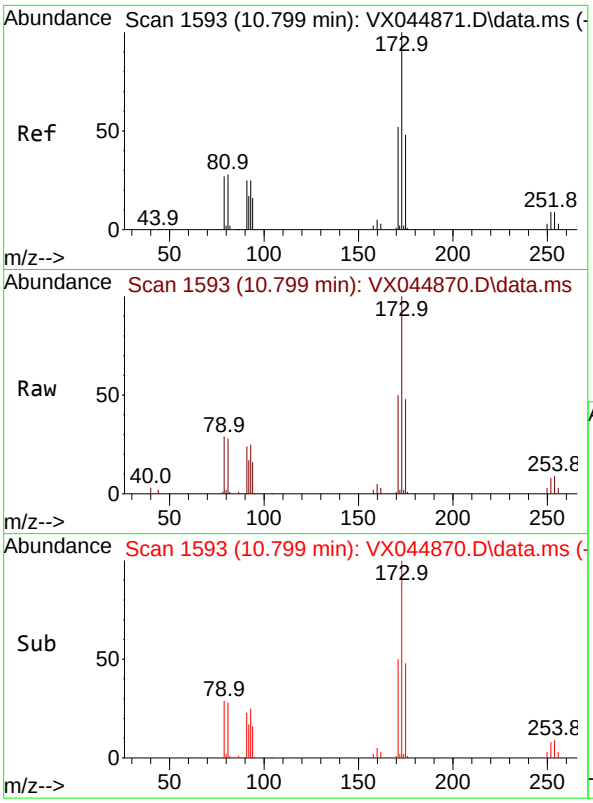


#70
Styrene
Concen: 22.101 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:104 Resp: 103740

Ion	Ratio	Lower	Upper
104	100		
78	49.2	40.5	60.7
103	53.5	43.6	65.4



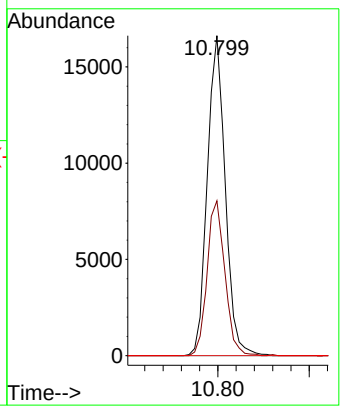


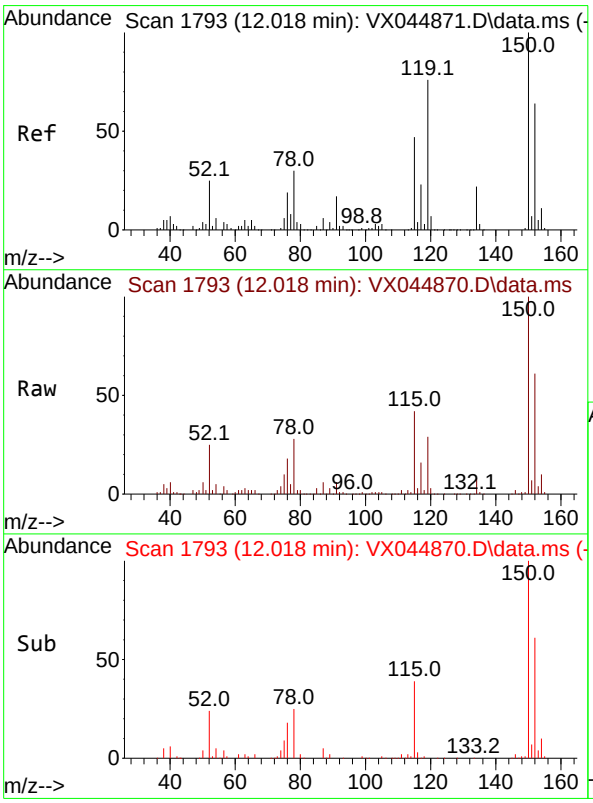
#71
Bromoform
Concen: 21.086 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 22592

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	72.8
254	0.0	0.0	0.0

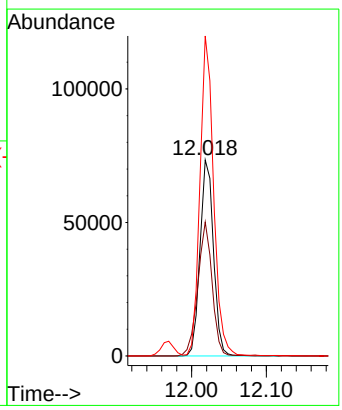


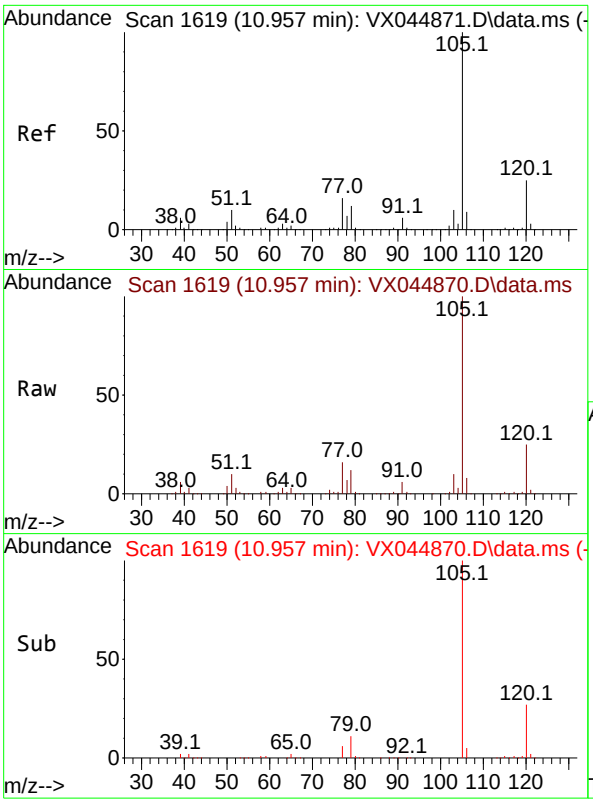


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:152 Resp: 92093

Ion	Ratio	Lower	Upper
152	100		
115	72.4	43.4	130.1
150	164.8	0.0	350.4



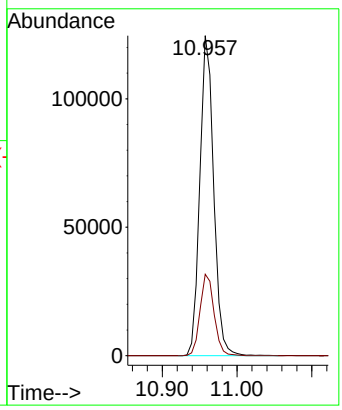


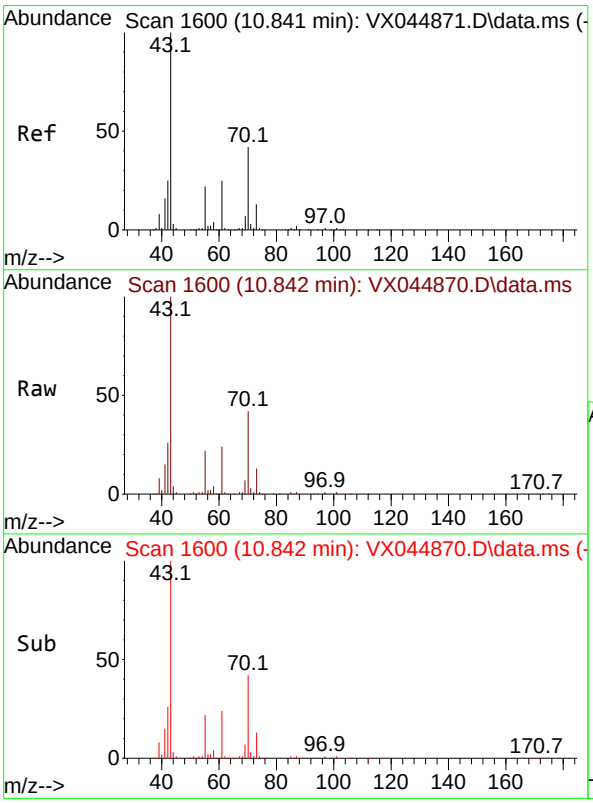
#73
Isopropylbenzene
Concen: 21.597 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 160147

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5

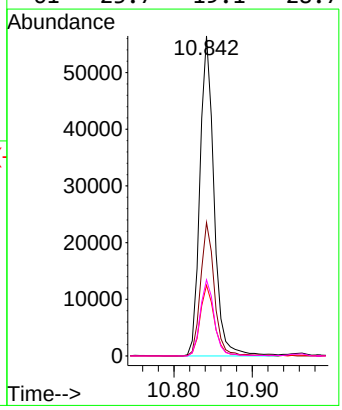


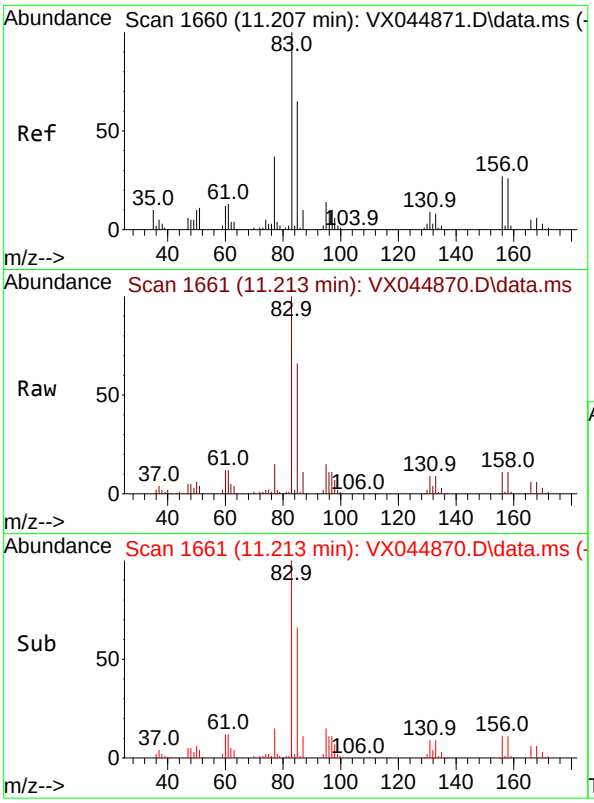


#74
N-amyl acetate
Concen: 21.023 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 43 Resp: 70542

Ion	Ratio	Lower	Upper
43	100		
70	40.7	33.7	50.5
55	22.4	18.6	27.8
61	23.7	19.1	28.7



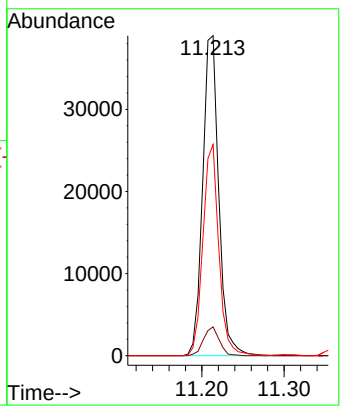


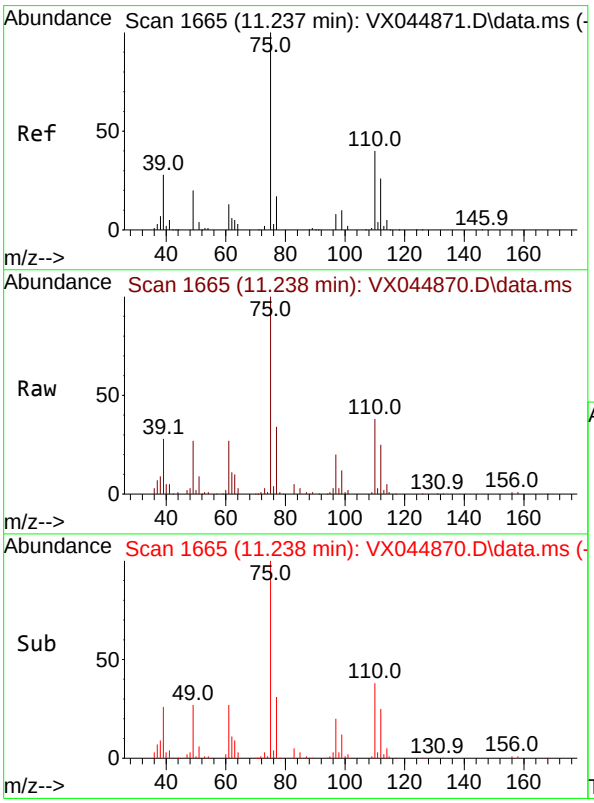
#75
1,1,2,2-Tetrachloroethane
Concen: 20.787 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 52967

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.5
85	65.1	32.3	96.8

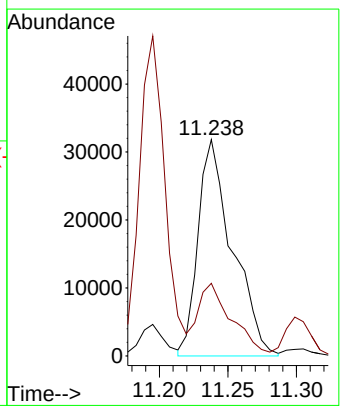


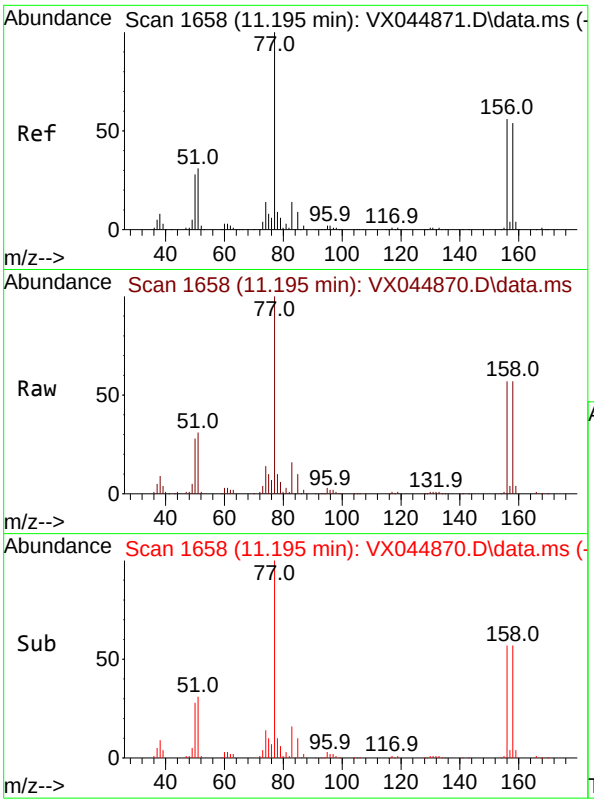


#76
1,2,3-Trichloropropane
Concen: 27.246 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 55632

Ion	Ratio	Lower	Upper
75	100		
77	33.0	21.9	65.7



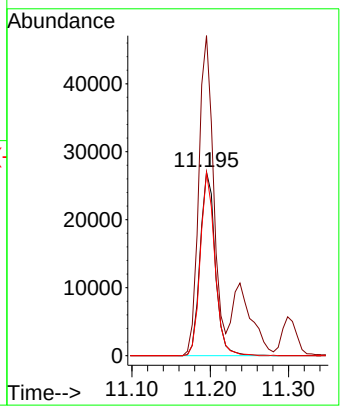


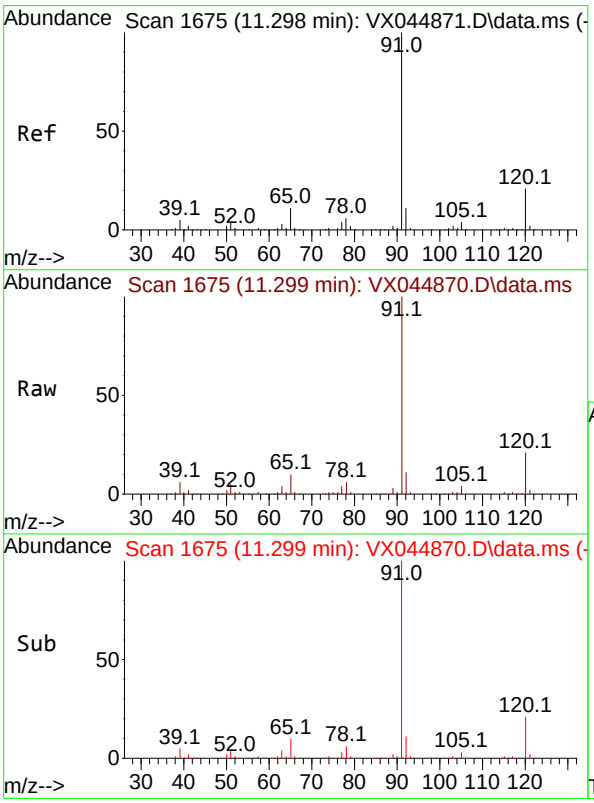
#77
Bromobenzene
Concen: 21.426 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 36021

Ion	Ratio	Lower	Upper
156	100		
77	171.1	88.4	265.3
158	96.8	48.4	145.2

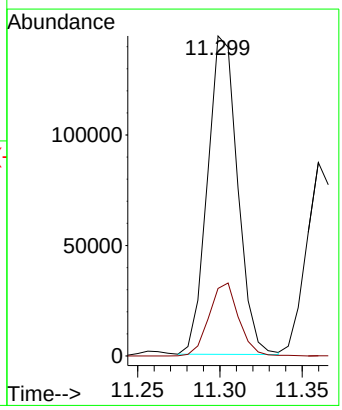


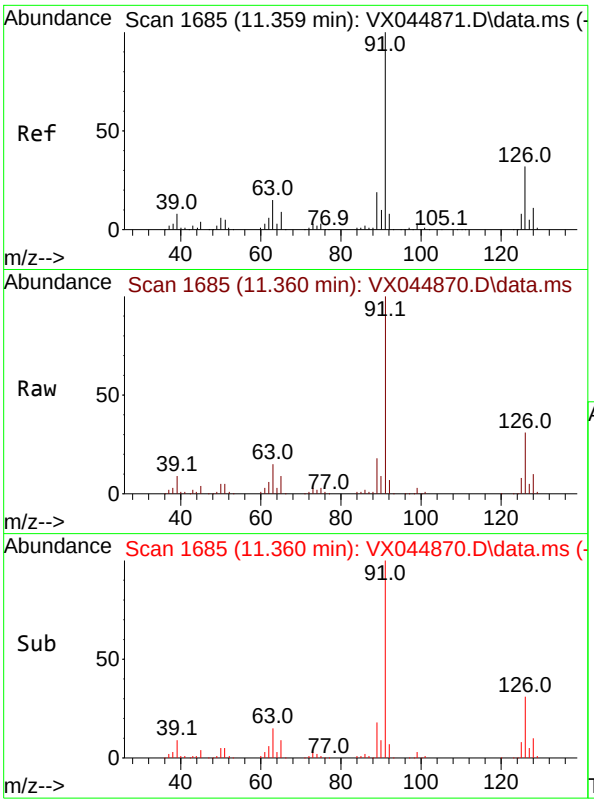


#78
n-propylbenzene
Concen: 21.406 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 183212

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3



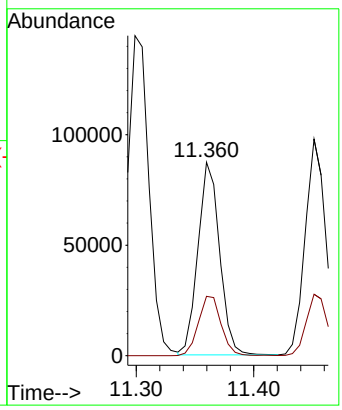


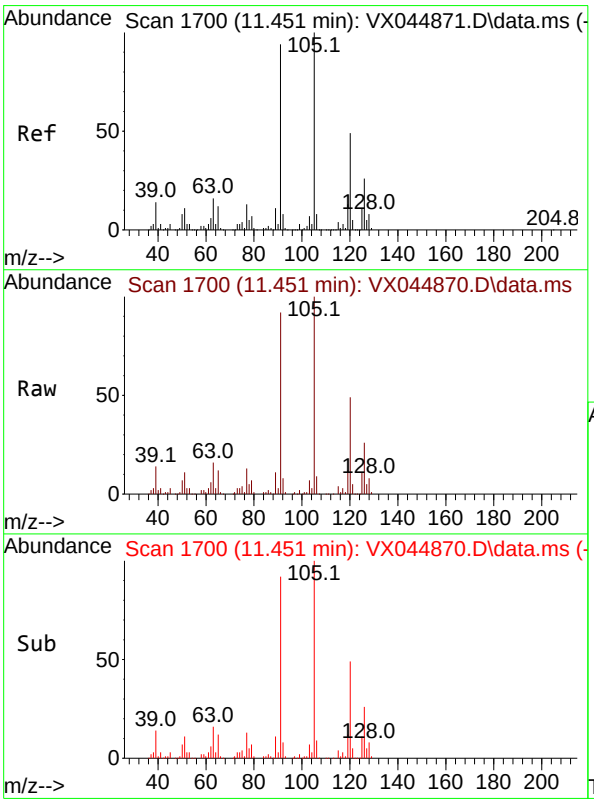
#79
2-Chlorotoluene
Concen: 21.250 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 111782

Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.2	48.6

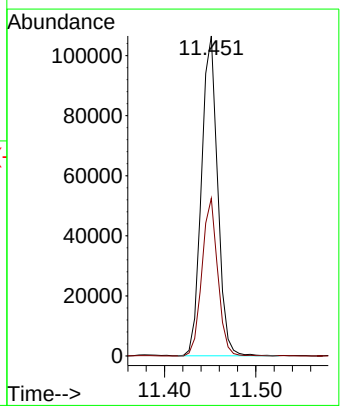


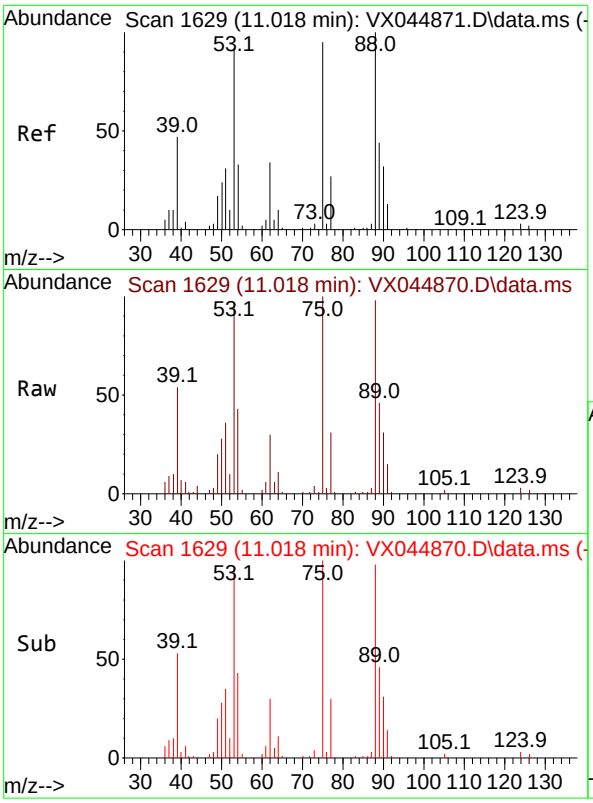


#80
1,3,5-Trimethylbenzene
Concen: 21.691 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 130526

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0



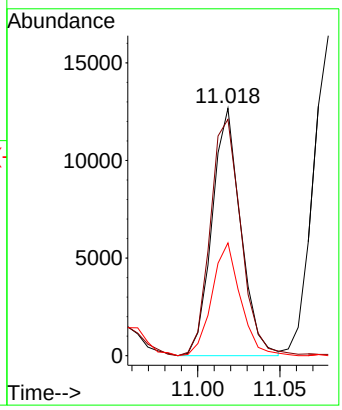


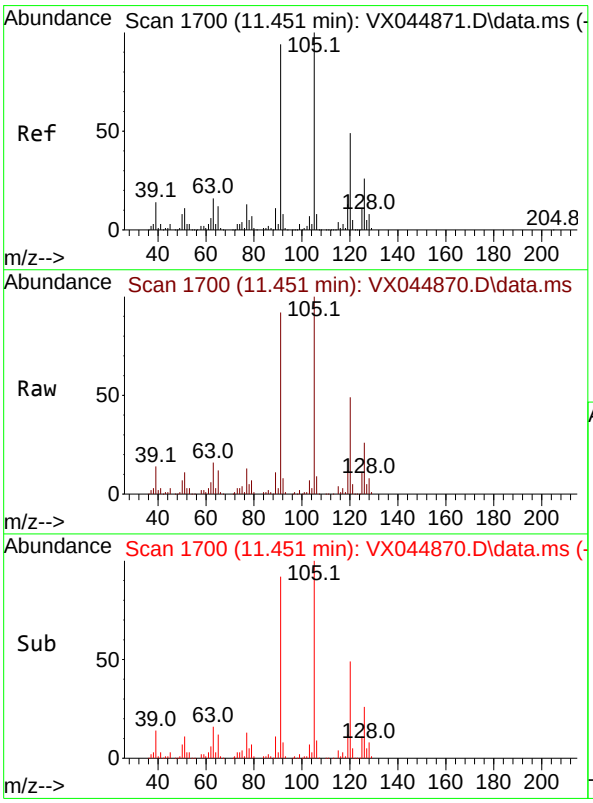
#81
trans-1,4-Dichloro-2-butene
Concen: 19.370 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 15375

Ion	Ratio	Lower	Upper
75	100		
53	103.3	78.0	117.0
89	45.3	36.6	54.8

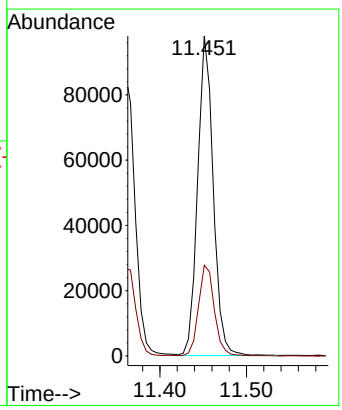


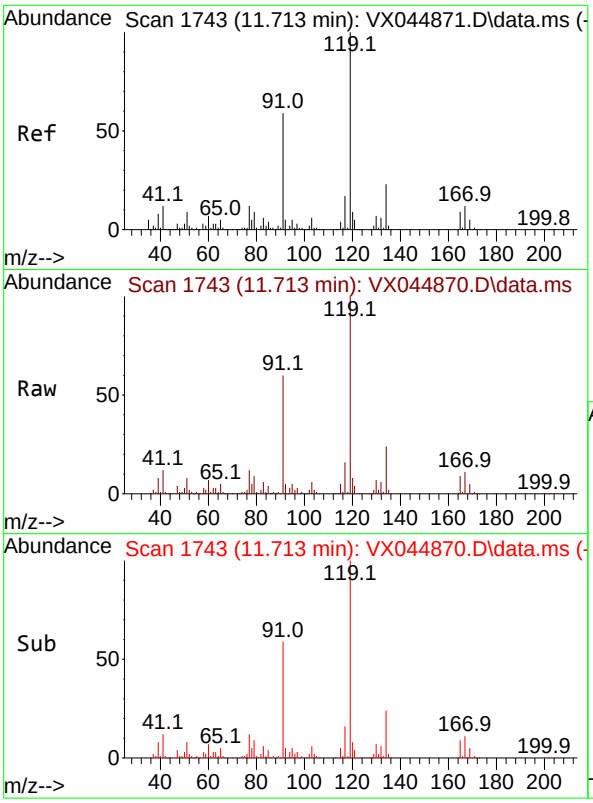


#82
4-Chlorotoluene
Concen: 21.016 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 91 Resp: 122303

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6



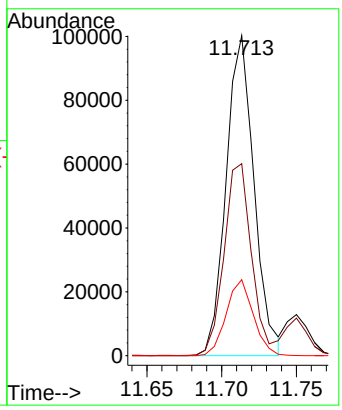


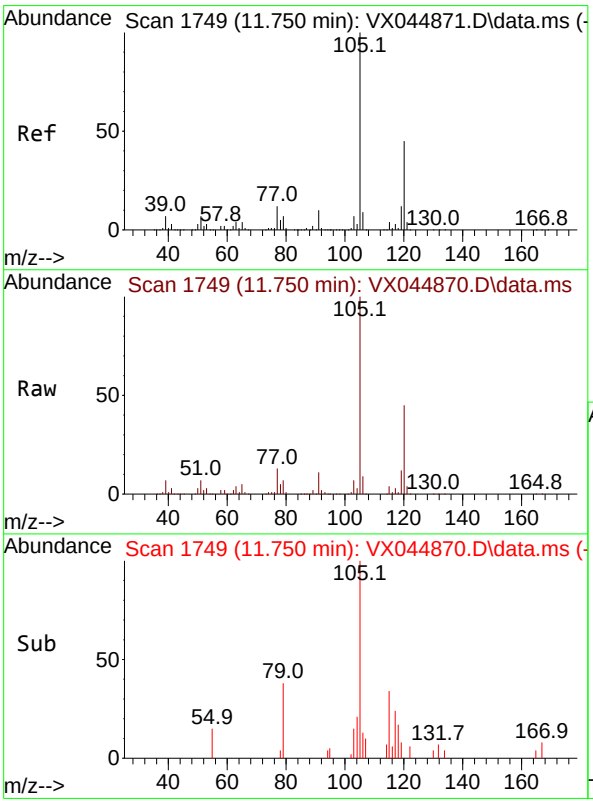
#83
tert-Butylbenzene
Concen: 21.414 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 130358

Ion	Ratio	Lower	Upper
119	100		
91	58.6	29.1	87.4
134	23.1	11.5	34.5

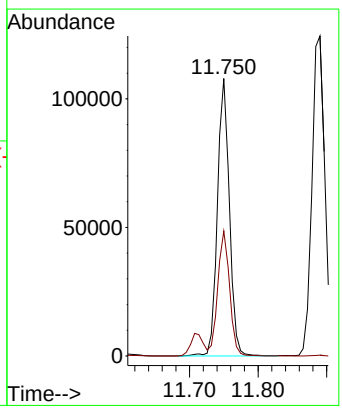


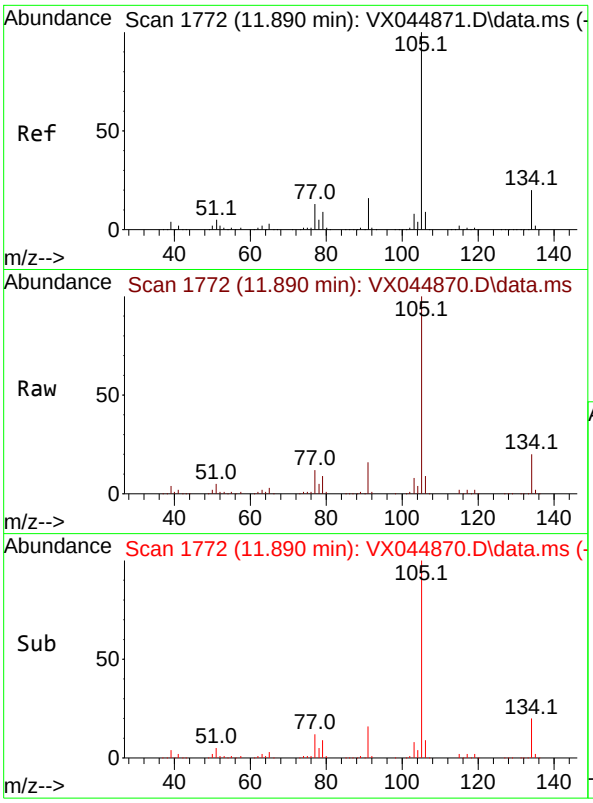


#84
1,2,4-Trimethylbenzene
Concen: 21.924 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:105 Resp: 130211

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.0



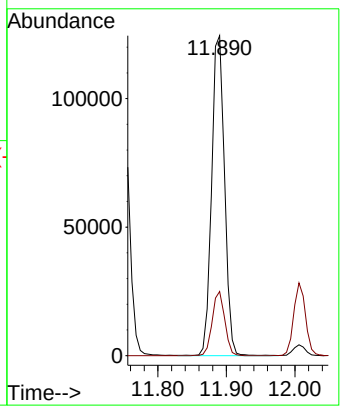


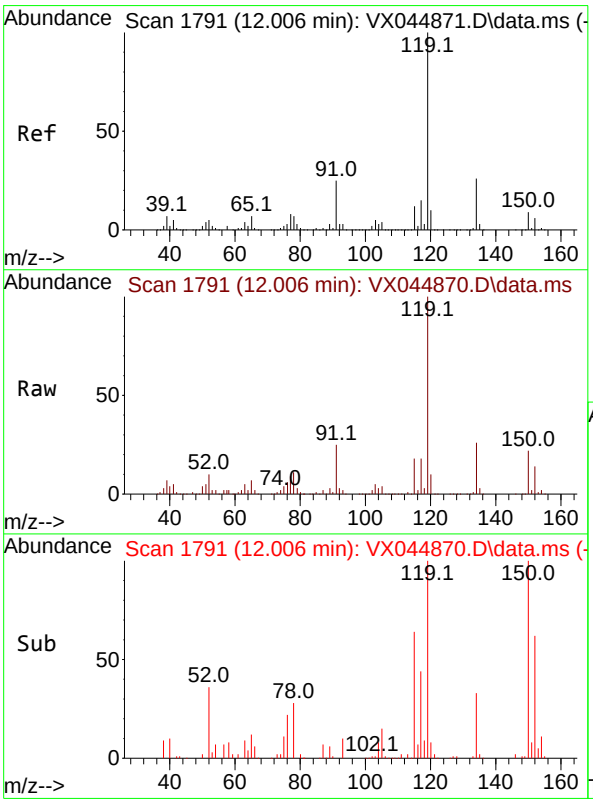
#85
sec-Butylbenzene
Concen: 21.607 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 162875

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3

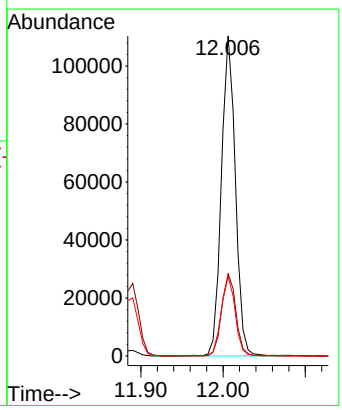


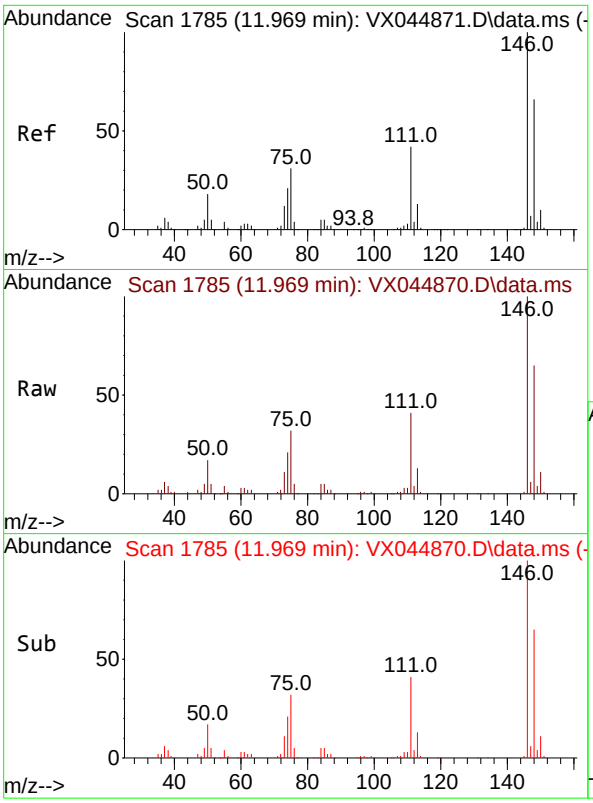


#86
p-Isopropyltoluene
Concen: 21.551 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:119 Resp: 130643

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	24.7	12.1	36.3



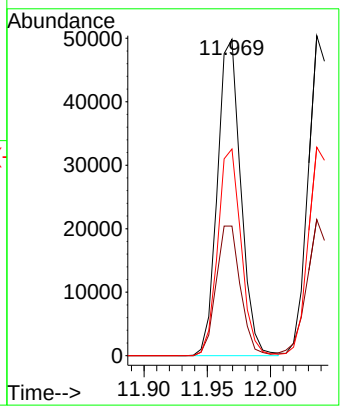


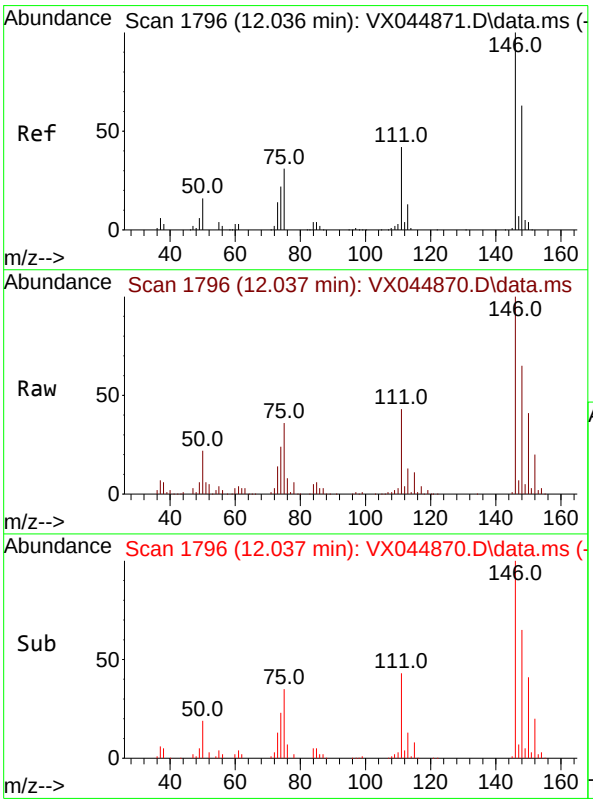
#87
1,3-Dichlorobenzene
Concen: 20.747 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 64141

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.2	32.5	97.5

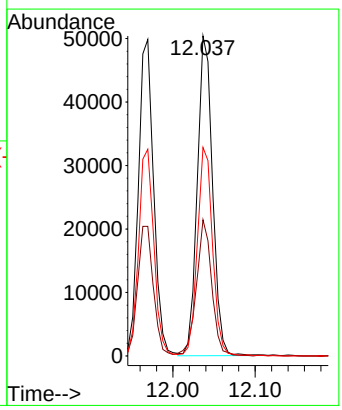


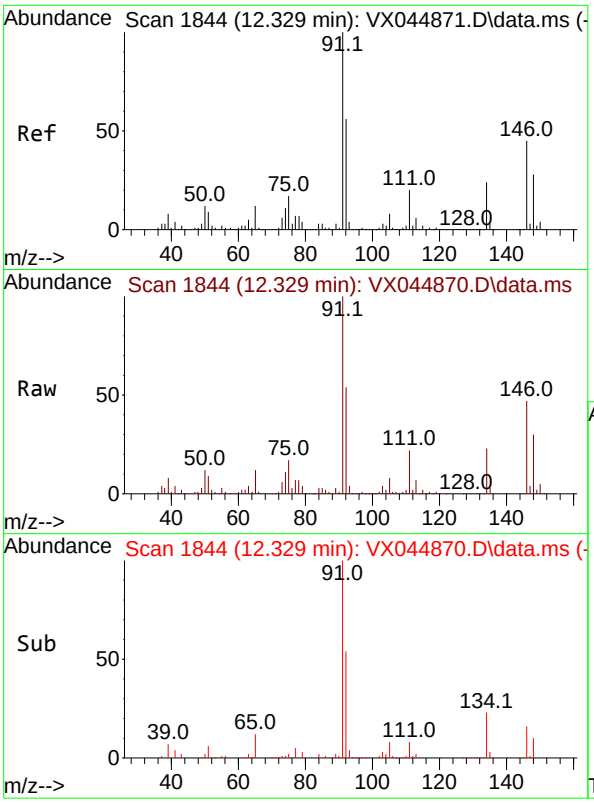


#88
1,4-Dichlorobenzene
Concen: 20.758 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:146 Resp: 64889

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.4	61.3
148	65.3	32.0	96.0



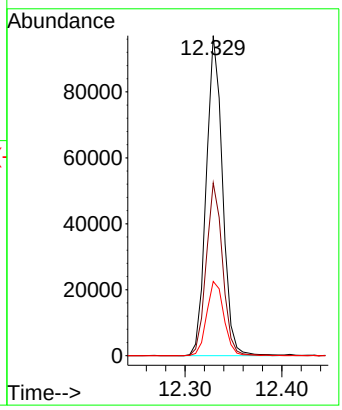


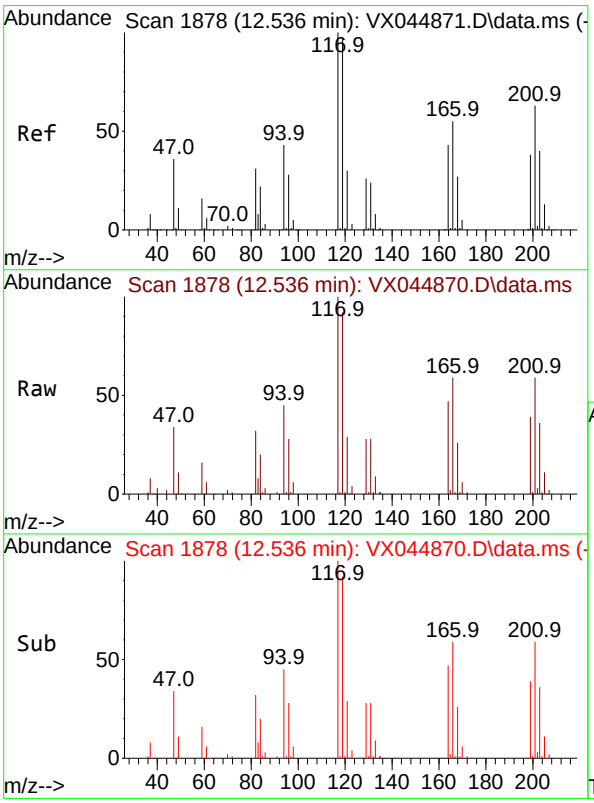
#89
n-Butylbenzene
Concen: 21.202 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 113705

Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.2	81.6
134	24.7	12.1	36.3

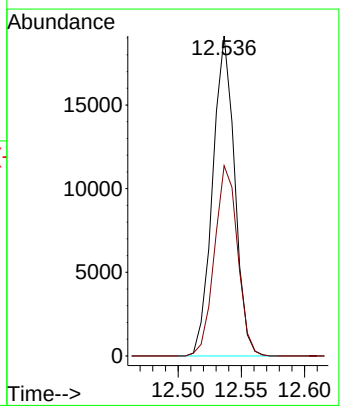


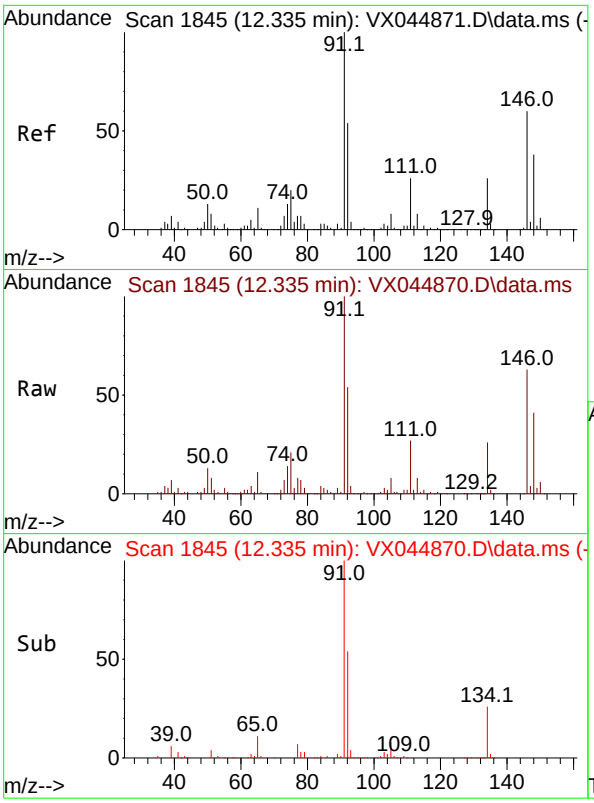


#90
Hexachloroethane
Concen: 20.398 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:117 Resp: 23153

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.5	97.5



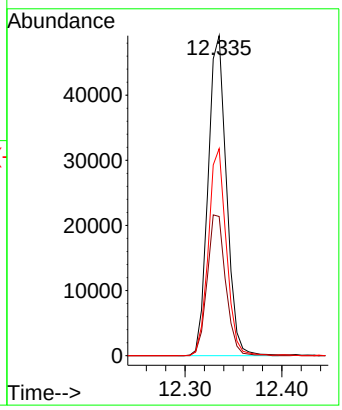


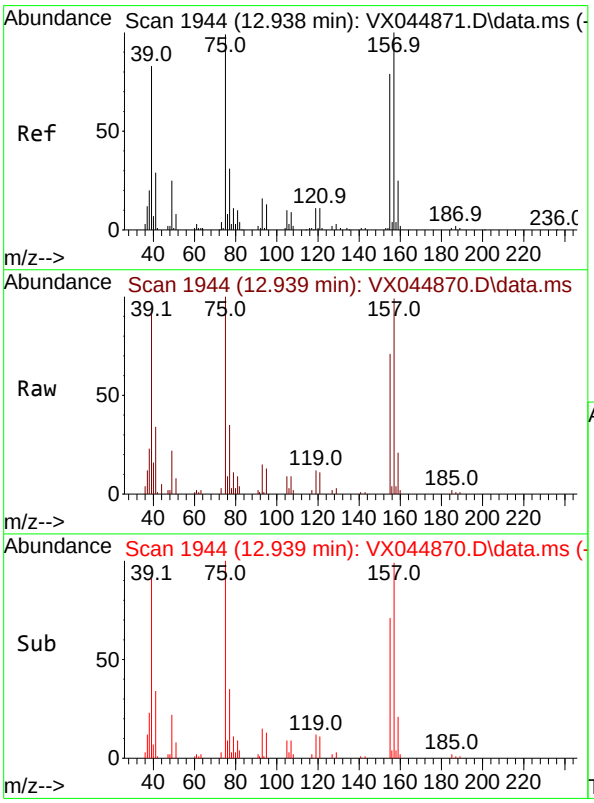
#91
1,2-Dichlorobenzene
Concen: 21.373 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 64940

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.8	65.4
148	63.3	31.9	95.9

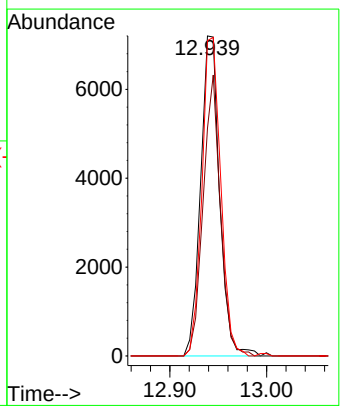


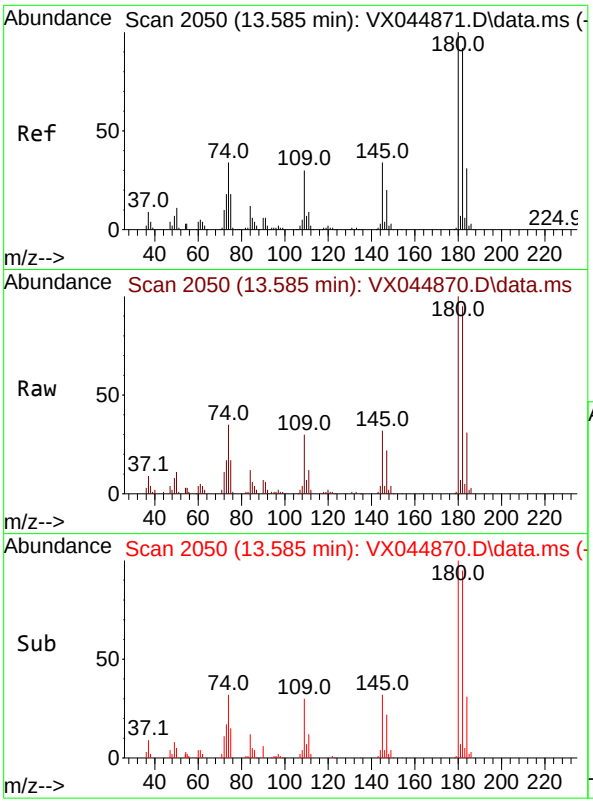


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.230 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion: 75 Resp: 9873

Ion	Ratio	Lower	Upper
75	100		
155	79.8	40.5	121.4
157	98.3	51.4	154.3



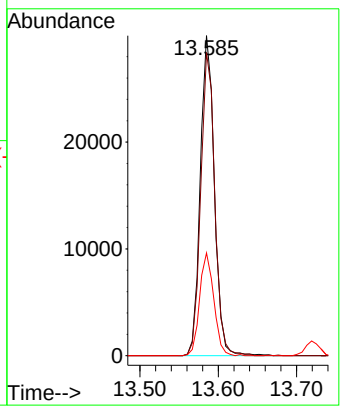


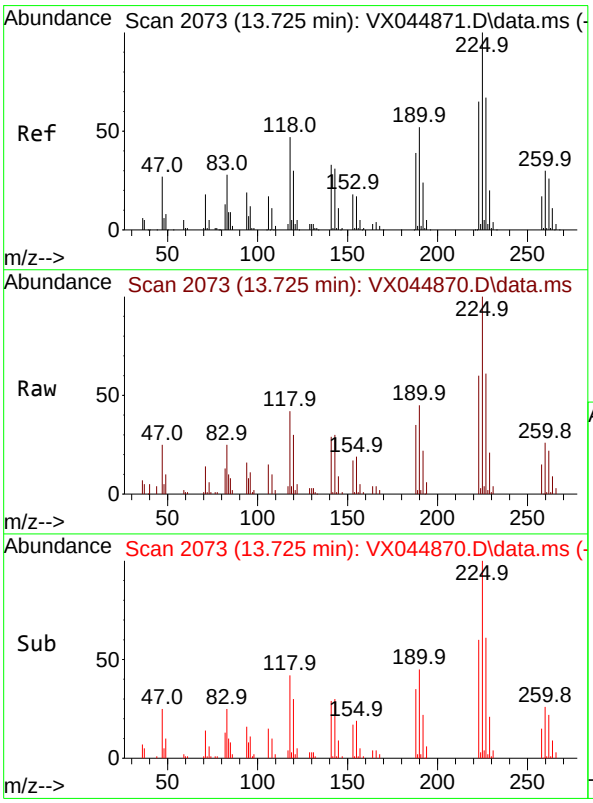
#93
1,2,4-Trichlorobenzene
Concen: 20.292 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 37308

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.6	142.8
145	32.4	16.4	49.1

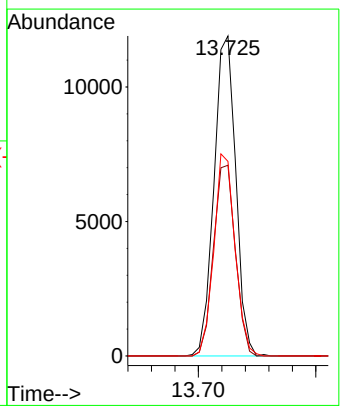


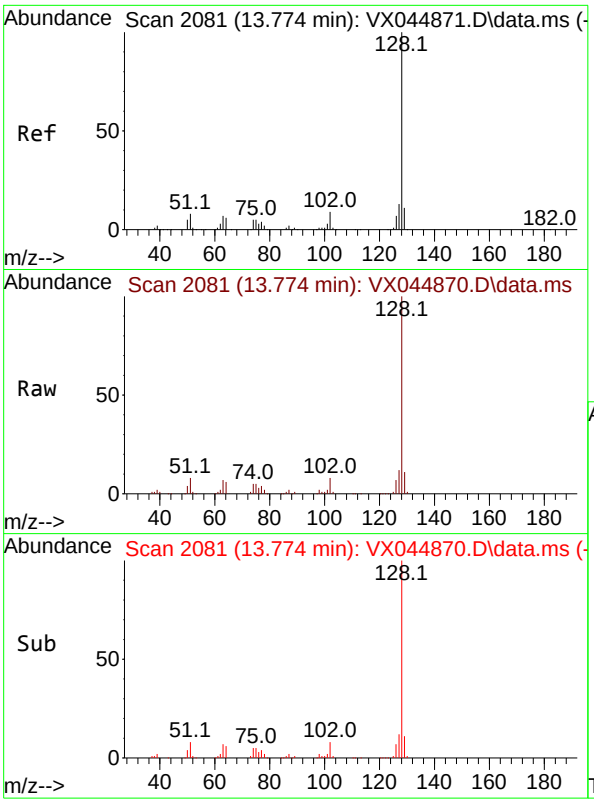


#94
Hexachlorobutadiene
Concen: 20.979 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:225 Resp: 15312

Ion	Ratio	Lower	Upper
225	100		
223	59.9	31.4	94.2
227	61.4	32.3	96.8



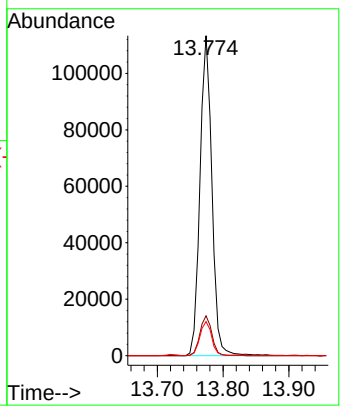


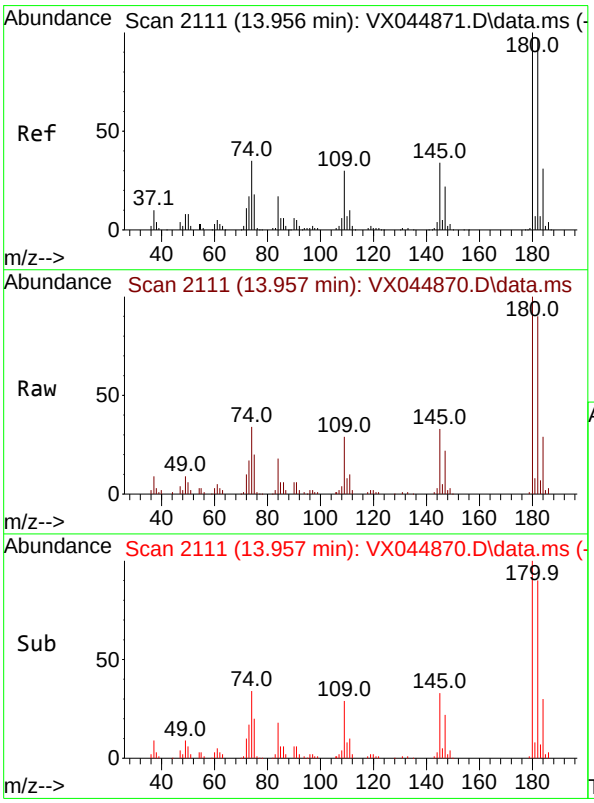
#95
Naphthalene
Concen: 21.502 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 142902

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.6	8.9	13.3

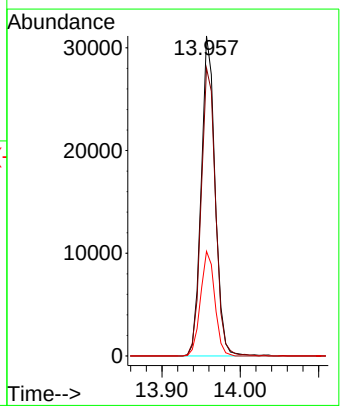




#96
1,2,3-Trichlorobenzene
Concen: 20.722 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044870.D
Acq: 10 Feb 2025 11:11

Tgt Ion:180 Resp: 38389

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.9	143.6
145	33.5	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	127984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	233736	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	204751	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	92648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92593	49.424	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.840%			
35) Dibromofluoromethane	5.379	113	74906	49.291	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.580%			
50) Toluene-d8	8.646	98	289575	50.392	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.780%			
62) 4-Bromofluorobenzene	11.079	95	100798	52.031	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.060%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	89581	49.905	ug/l	100
3) Chloromethane	1.300	50	107836	49.359	ug/l	100
4) Vinyl Chloride	1.373	62	103354	48.832	ug/l	100
5) Bromomethane	1.593	94	31886	50.345	ug/l	100
6) Chloroethane	1.666	64	43657	55.583	ug/l	100
7) Trichlorofluoromethane	1.873	101	131729	49.215	ug/l	100
8) Diethyl Ether	2.129	74	48023	49.473	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.318	101	80068	49.511	ug/l	100
10) Methyl Iodide	2.446	142	108383	51.712	ug/l	100
11) Tert butyl alcohol	2.983	59	87254	251.049	ug/l	100
12) 1,1-Dichloroethene	2.312	96	80672	48.904	ug/l	100
13) Acrolein	2.233	56	90518	252.426	ug/l	100
14) Allyl chloride	2.660	41	148044	49.658	ug/l	100
15) Acrylonitrile	3.062	53	242268	261.074	ug/l	100
16) Acetone	2.379	43	187739	249.274	ug/l	100
17) Carbon Disulfide	2.501	76	225511	49.853	ug/l	100
18) Methyl Acetate	2.702	43	121039	50.928	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	261852	49.890	ug/l	100
20) Methylene Chloride	2.782	84	90038	48.808	ug/l	100
21) trans-1,2-Dichloroethene	3.086	96	81950	50.475	ug/l	100
22) Diisopropyl ether	3.757	45	287347	50.946	ug/l	100
23) Vinyl Acetate	3.714	43	1190152	258.830	ug/l	100
24) 1,1-Dichloroethane	3.605	63	157003	49.749	ug/l	100
25) 2-Butanone	4.556	43	323510	264.528	ug/l	100
26) 2,2-Dichloropropane	4.470	77	121901	48.707	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	96965	49.721	ug/l	100
28) Bromochloromethane	4.891	49	74707	49.258	ug/l	100
29) Tetrahydrofuran	5.001	42	210414	259.105	ug/l	100
30) Chloroform	5.086	83	149581	48.874	ug/l	100
31) Cyclohexane	5.464	56	143500	49.322	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	128561	49.523	ug/l	100
36) 1,1-Dichloropropene	5.690	75	108206	49.353	ug/l	100
37) Ethyl Acetate	4.708	43	123238	50.535	ug/l	100
38) Carbon Tetrachloride	5.671	117	105873	49.277	ug/l	100
39) Methylcyclohexane	7.372	83	145338	51.274	ug/l	100
40) Benzene	6.031	78	343557	50.182	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.915	41	70572	54.065	ug/l		100
42) 1,2-Dichloroethane	6.080	62	110347	50.573	ug/l		100
43) Isopropyl Acetate	6.336	43	204703	51.981	ug/l		100
44) Trichloroethene	7.122	130	78274	50.020	ug/l		100
45) 1,2-Dichloropropane	7.427	63	85733	50.335	ug/l		100
46) Dibromomethane	7.573	93	59625	50.479	ug/l		100
47) Bromodichloromethane	7.817	83	116892	51.108	ug/l		100
48) Methyl methacrylate	7.689	41	98519	53.057	ug/l		100
49) 1,4-Dioxane	7.659	88	42094	1056.618	ug/l		100
51) 4-Methyl-2-Pentanone	8.573	43	647283	270.364	ug/l		100
52) Toluene	8.714	92	210007	51.507	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	120125	51.902	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	134763	52.223	ug/l		100
55) 1,1,2-Trichloroethane	9.146	97	79741	50.876	ug/l		100
56) Ethyl methacrylate	9.116	69	134975	53.319	ug/l		100
57) 1,3-Dichloropropane	9.305	76	141335	51.537	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	336412	270.652	ug/l		100
59) 2-Hexanone	9.427	43	472301	273.800	ug/l		100
60) Dibromochloromethane	9.518	129	87240	52.045	ug/l		100
61) 1,2-Dibromoethane	9.604	107	81915	51.564	ug/l		100
64) Tetrachloroethene	9.268	164	63537	49.206	ug/l		100
65) Chlorobenzene	10.079	112	224306	51.005	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.158	131	72478	51.203	ug/l		100
67) Ethyl Benzene	10.189	91	396269	51.061	ug/l		100
68) m/p-Xylenes	10.299	106	296507	103.573	ug/l		100
69) o-Xylene	10.640	106	144802	50.409	ug/l		100
70) Styrene	10.652	104	245518	53.051	ug/l		100
71) Bromoform	10.799	173	57417	54.352	ug/l	#	100
73) Isopropylbenzene	10.957	105	374776	50.239	ug/l		100
74) N-amyl acetate	10.841	43	176174	52.189	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	126542	49.364	ug/l		100
76) 1,2,3-Trichloropropane	11.237	75	136881	66.637	ug/l		83
77) Bromobenzene	11.195	156	84448	49.931	ug/l		100
78) n-propylbenzene	11.298	91	437572	50.818	ug/l		100
79) 2-Chlorotoluene	11.359	91	263269	49.749	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	307465	50.789	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	40487	50.701	ug/l		100
82) 4-Chlorotoluene	11.451	91	295844	50.531	ug/l		100
83) tert-Butylbenzene	11.713	119	306830	50.102	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	311205	52.085	ug/l		100
85) sec-Butylbenzene	11.890	105	384155	50.657	ug/l		100
86) p-Isopropyltoluene	12.006	119	315226	51.689	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	155575	50.021	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	156162	49.657	ug/l		100
89) n-Butylbenzene	12.329	91	287649	53.315	ug/l		100
90) Hexachloroethane	12.536	117	56951	49.874	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	154364	50.500	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	23924	51.135	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	93863	50.747	ug/l		100
94) Hexachlorobutadiene	13.725	225	35481	48.321	ug/l		100
95) Naphthalene	13.774	128	347645	51.995	ug/l		100
96) 1,2,3-Trichlorobenzene	13.956	180	95510	51.245	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

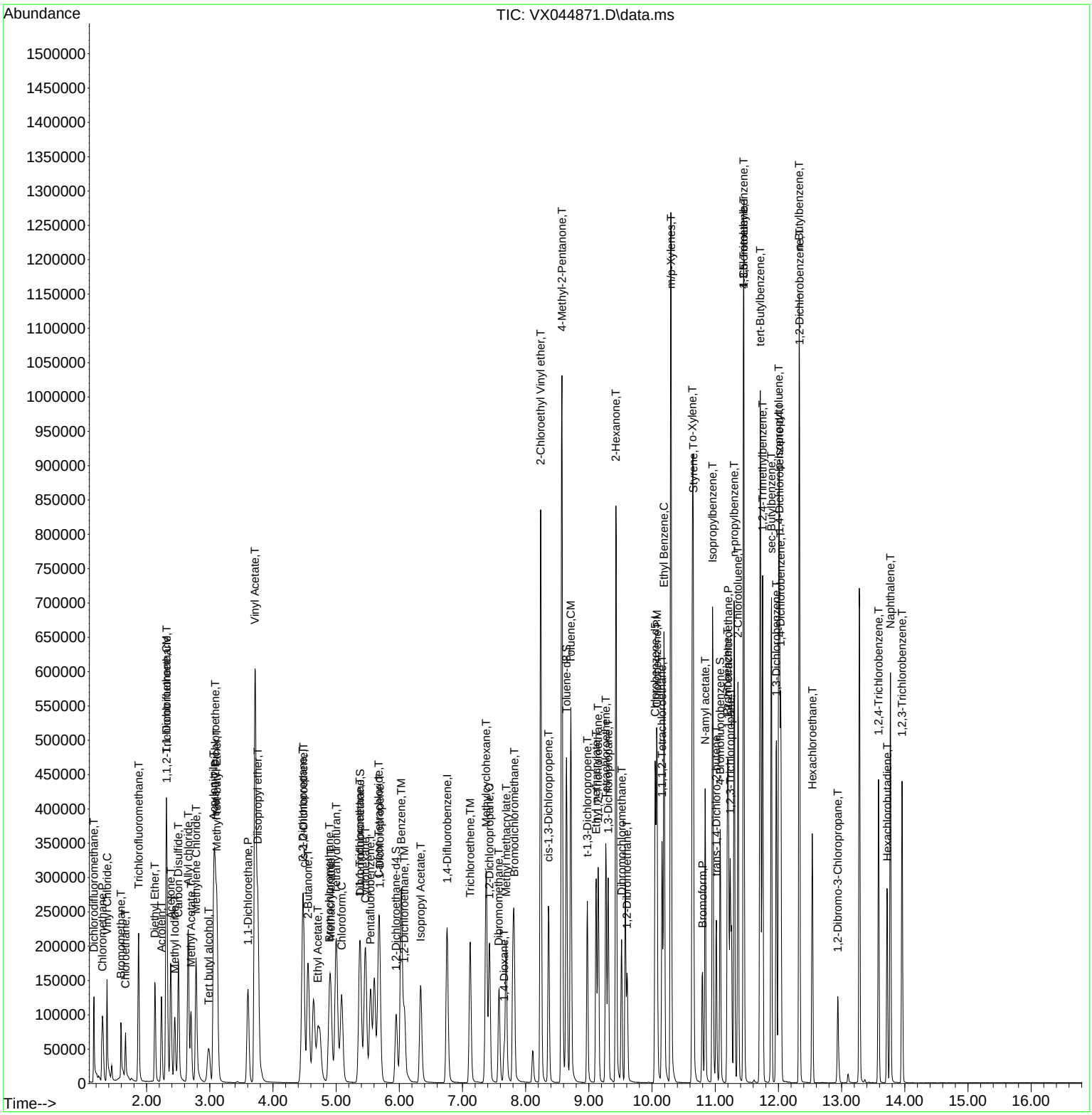
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

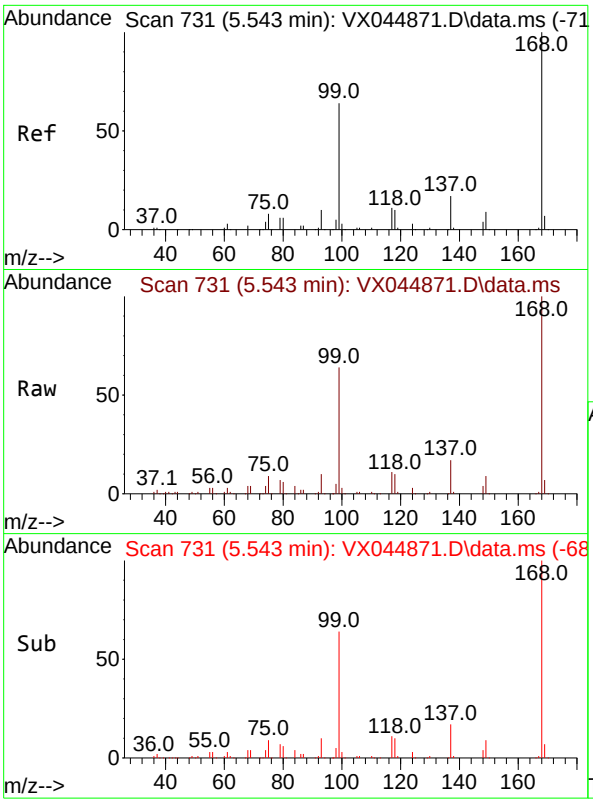
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044871.D
Acq On : 10 Feb 2025 11:34
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Feb 11 02:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



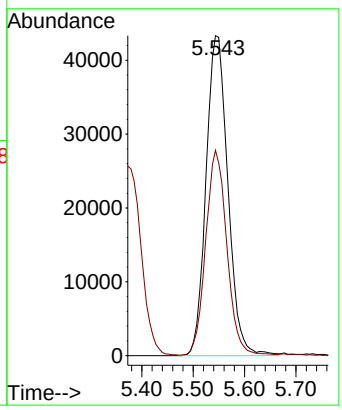


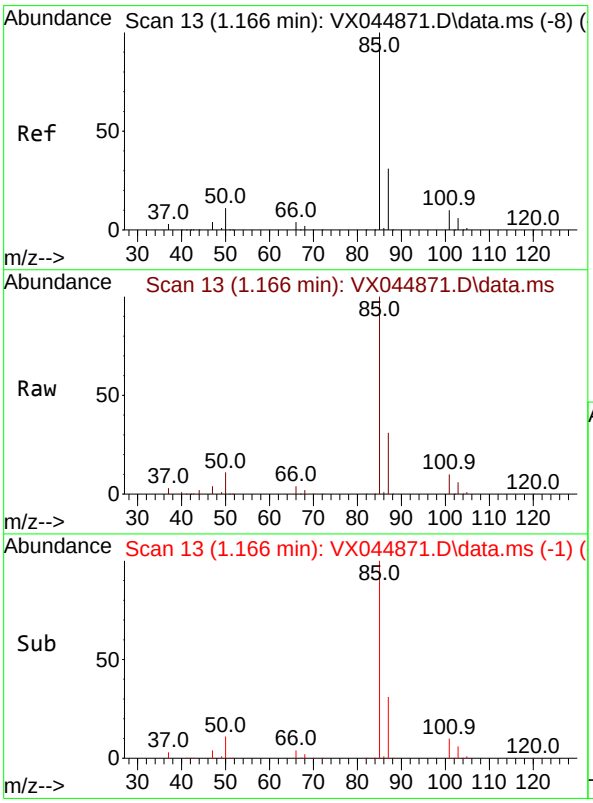
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 127984

Ion	Ratio	Lower	Upper
168	100		
99	64.0	51.2	76.8

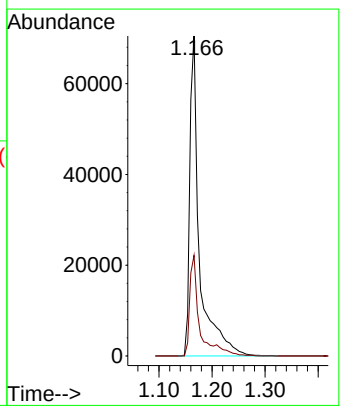


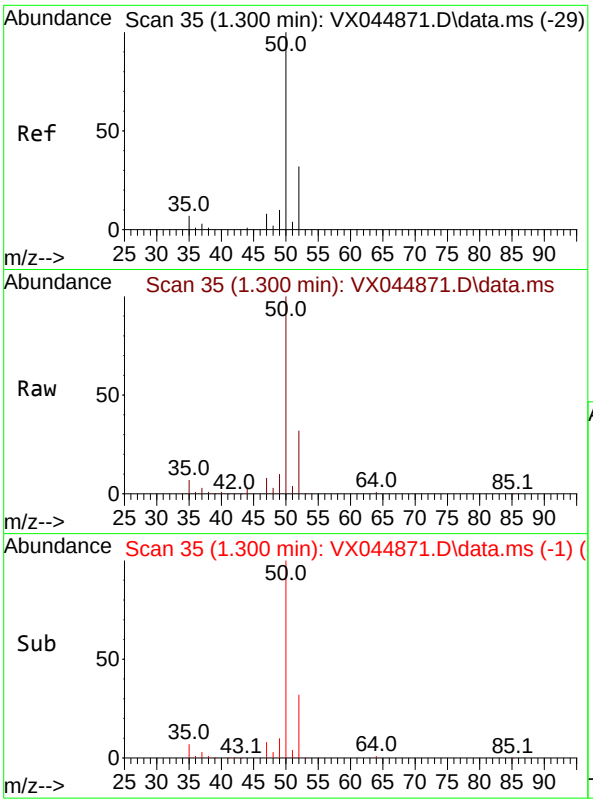


#2
Dichlorodifluoromethane
Concen: 49.905 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 85 Resp: 89581

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3



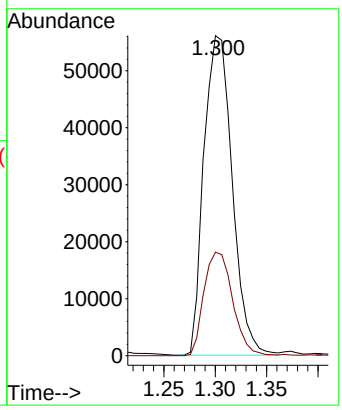


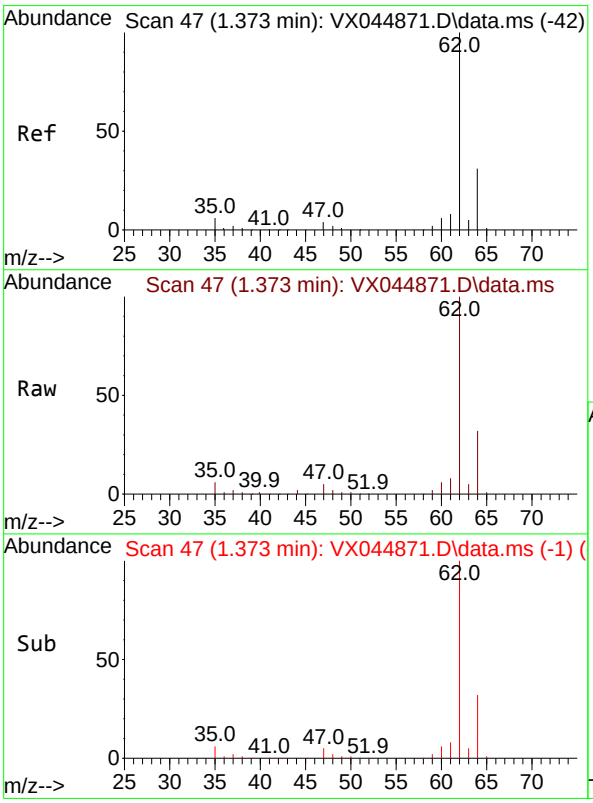
#3
Chloromethane
Concen: 49.359 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 107836

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9

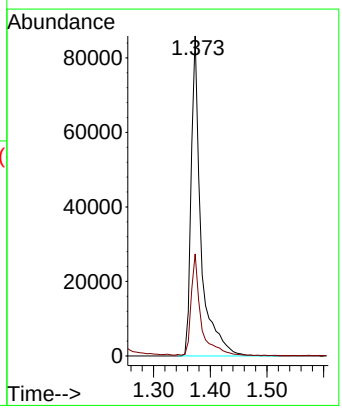


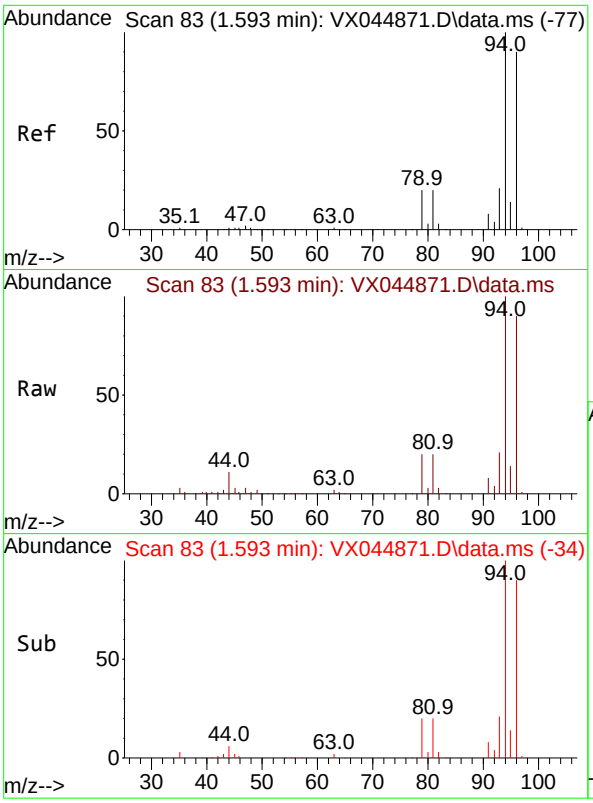


#4
Vinyl Chloride
Concen: 48.832 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 103354

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0



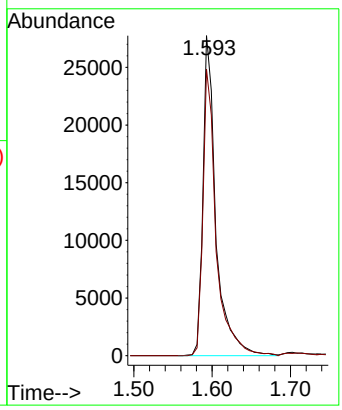


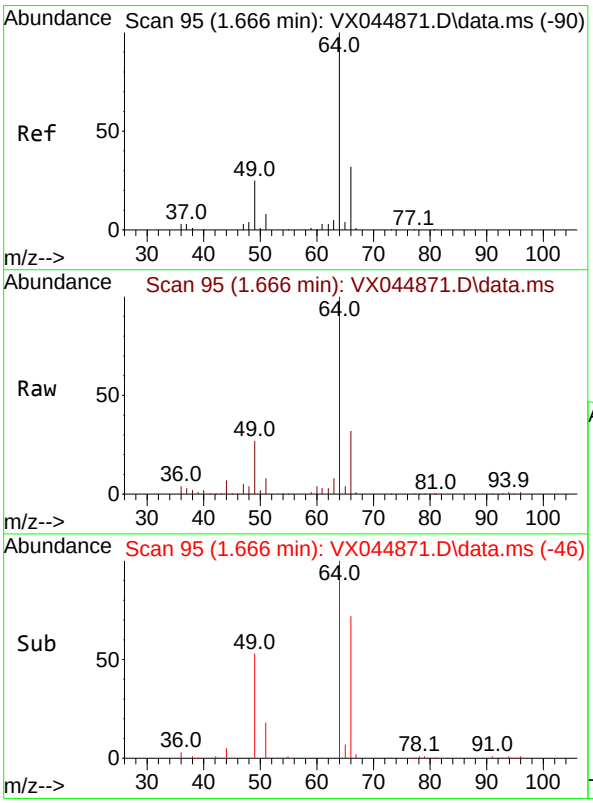
#5
Bromomethane
Concen: 50.345 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 31886

Ion	Ratio	Lower	Upper
94	100		
96	89.5	71.6	107.4

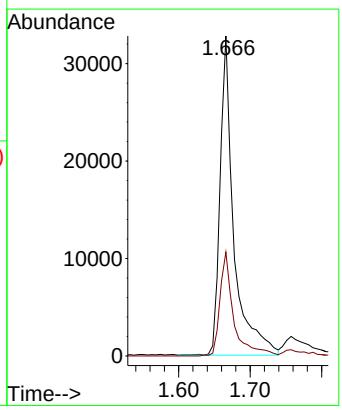


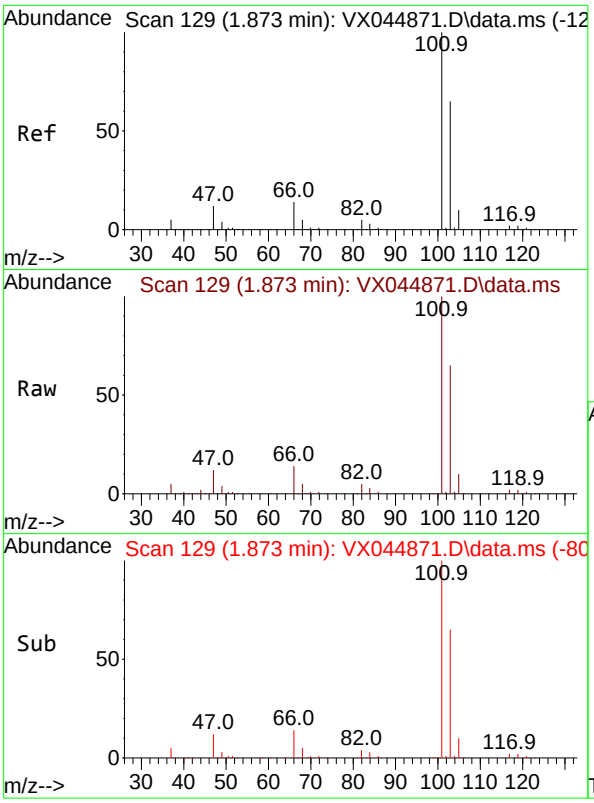


#6
Chloroethane
Concen: 55.583 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 64 Resp: 43657

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.9	38.9



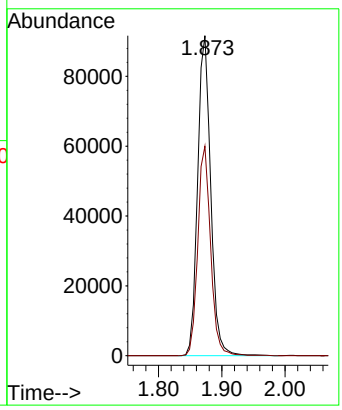


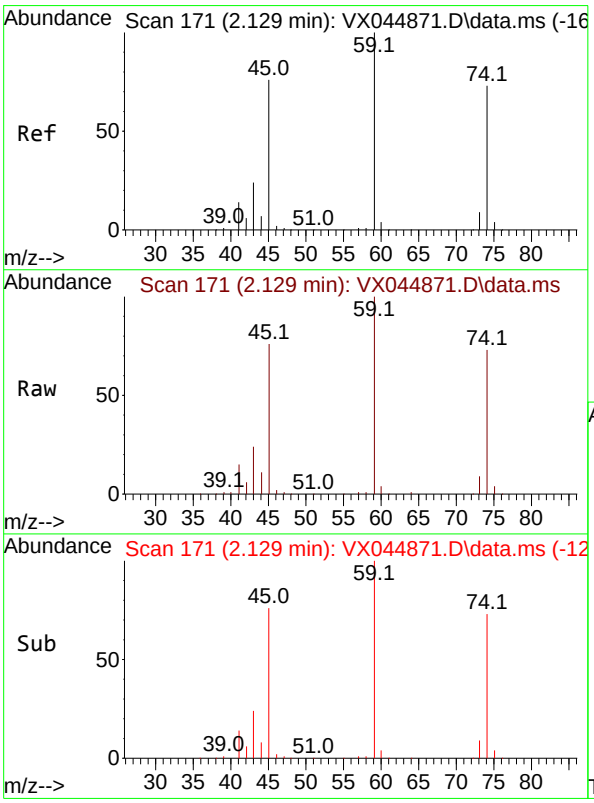
#7
Trichlorofluoromethane
Concen: 49.215 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 131729

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.4	78.6

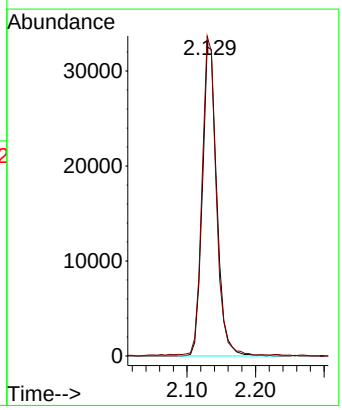


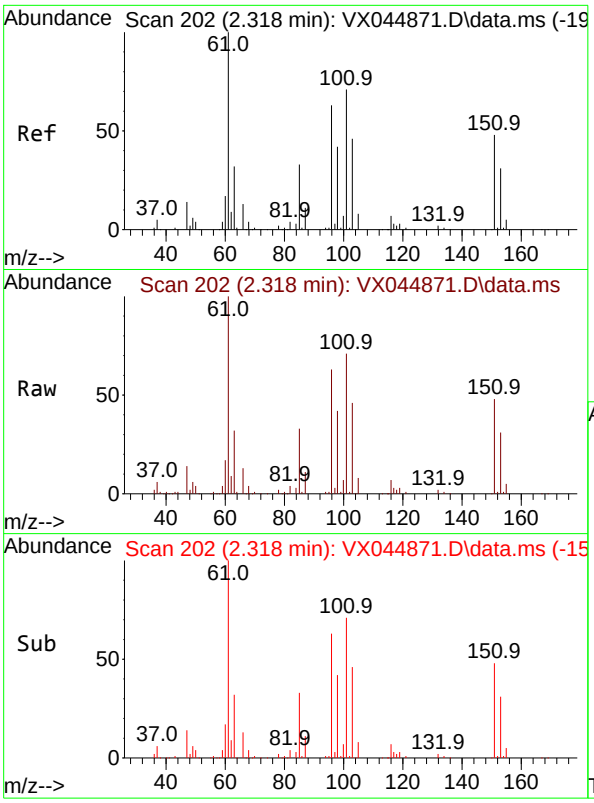


#8
Diethyl Ether
Concen: 49.473 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 74 Resp: 48023

Ion	Ratio	Lower	Upper
74	100		
45	102.3	51.1	153.4



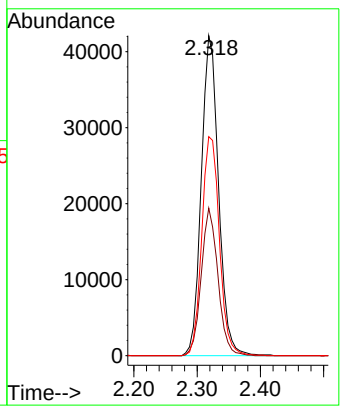


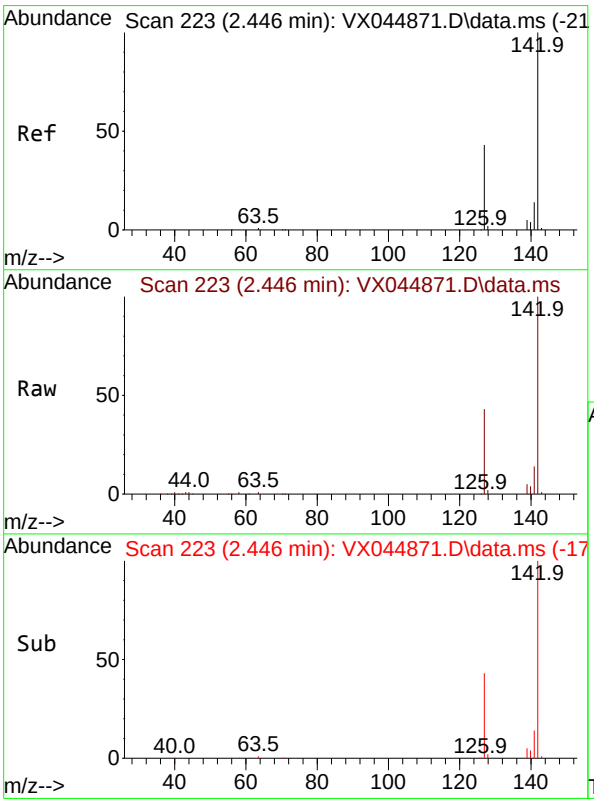
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.511 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 80068

Ion	Ratio	Lower	Upper
101	100		
85	44.6	35.7	53.5
151	70.0	56.0	84.0

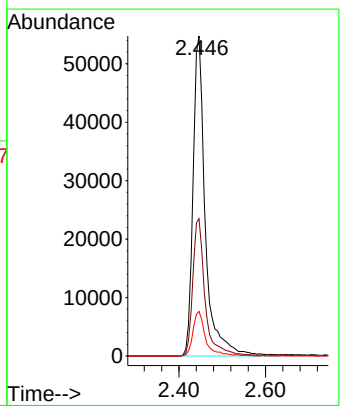


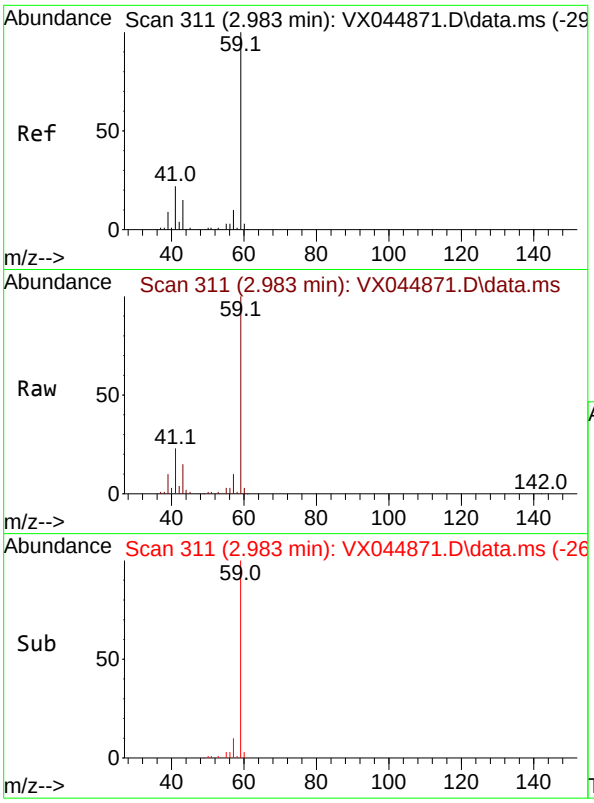


#10
Methyl Iodide
Concen: 51.712 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:142 Resp: 108383

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.3	51.5
141	14.3	11.4	17.2



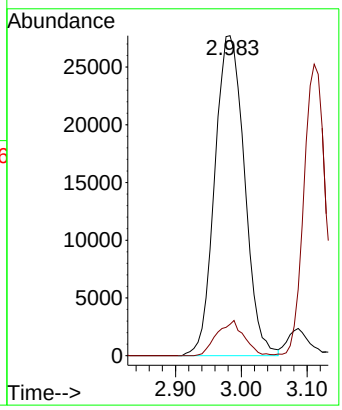


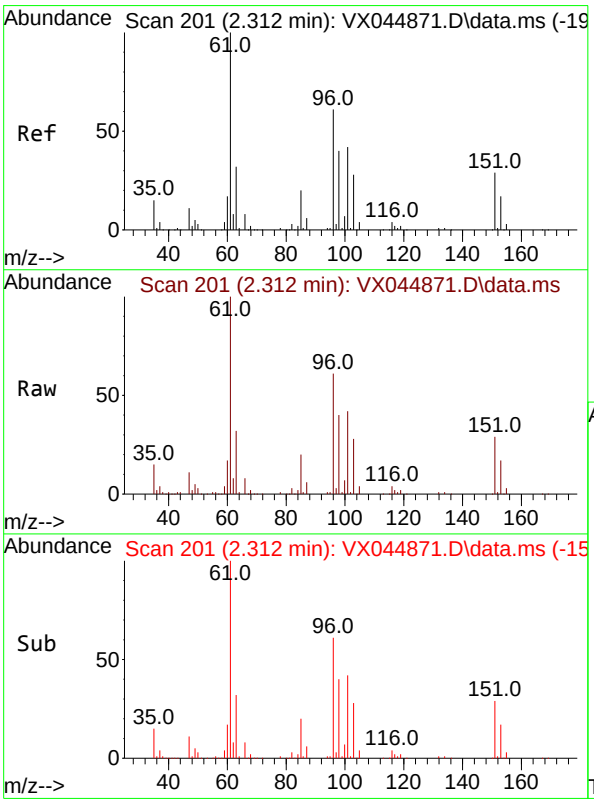
#11
Tert butyl alcohol
Concen: 251.049 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 87254

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1

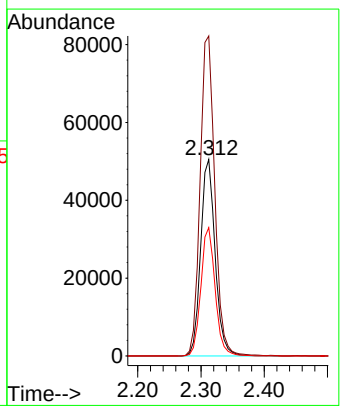


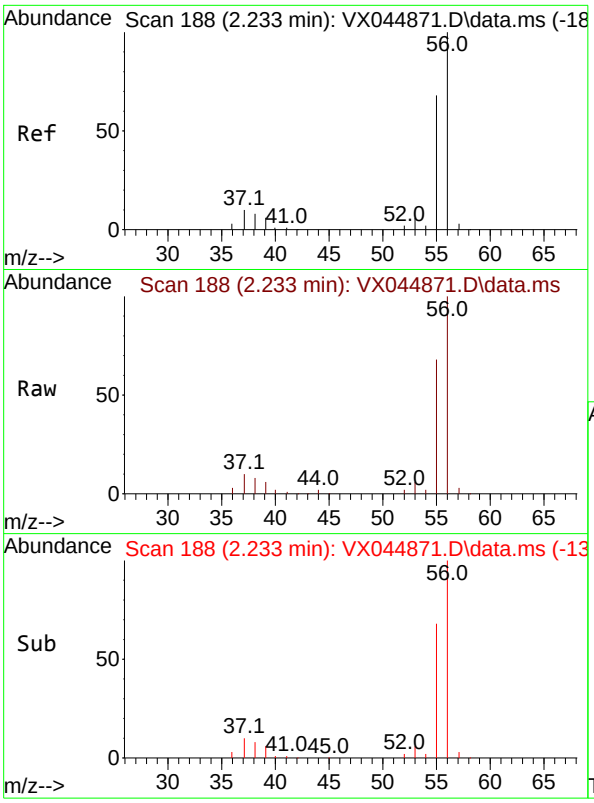


#12
1,1-Dichloroethene
Concen: 48.904 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 96 Resp: 80672

Ion	Ratio	Lower	Upper
96	100		
61	162.8	130.2	195.4
98	65.3	52.2	78.4



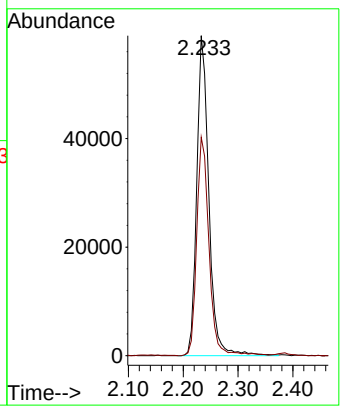


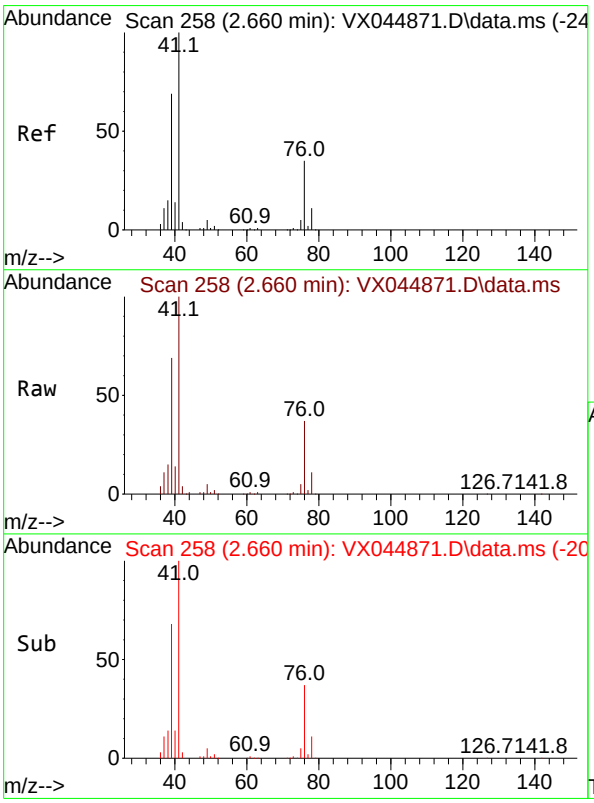
#13
Acrolein
Concen: 252.426 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 90518

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5

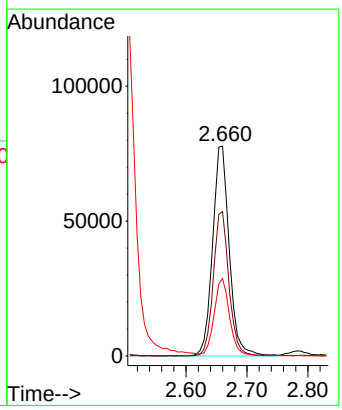


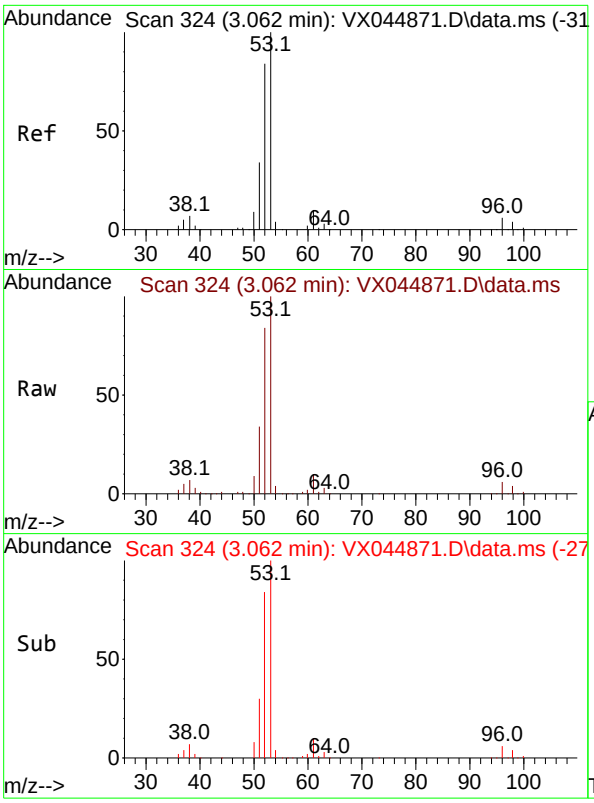


#14
Allyl chloride
Concen: 49.658 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 148044

Ion	Ratio	Lower	Upper
41	100		
39	64.3	51.4	77.2
76	33.7	27.0	40.4



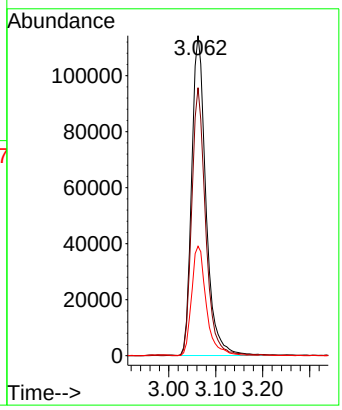


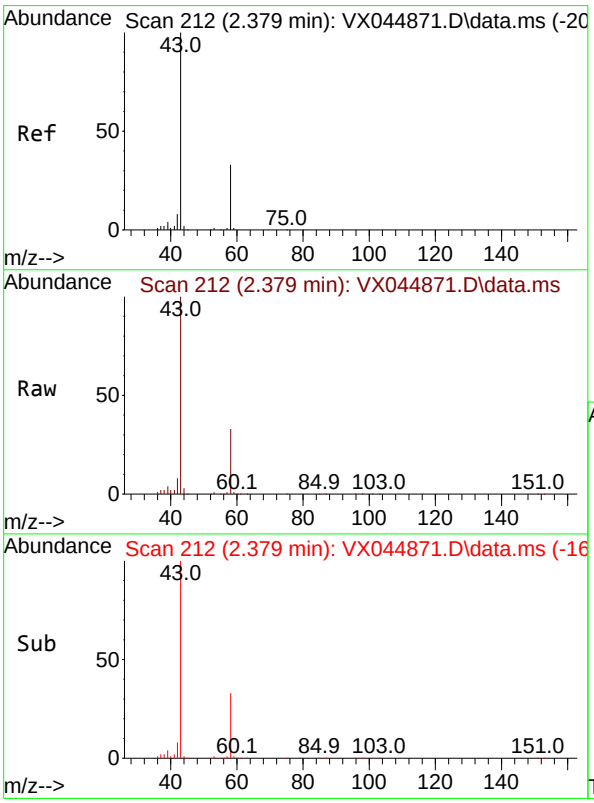
#15
Acrylonitrile
Concen: 261.074 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 242268

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	35.0	28.0	42.0

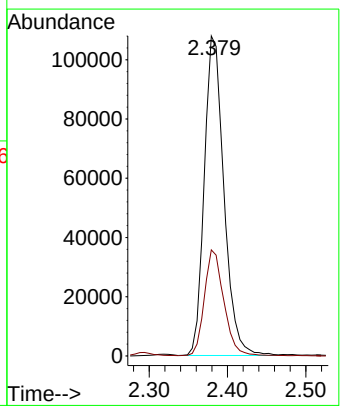


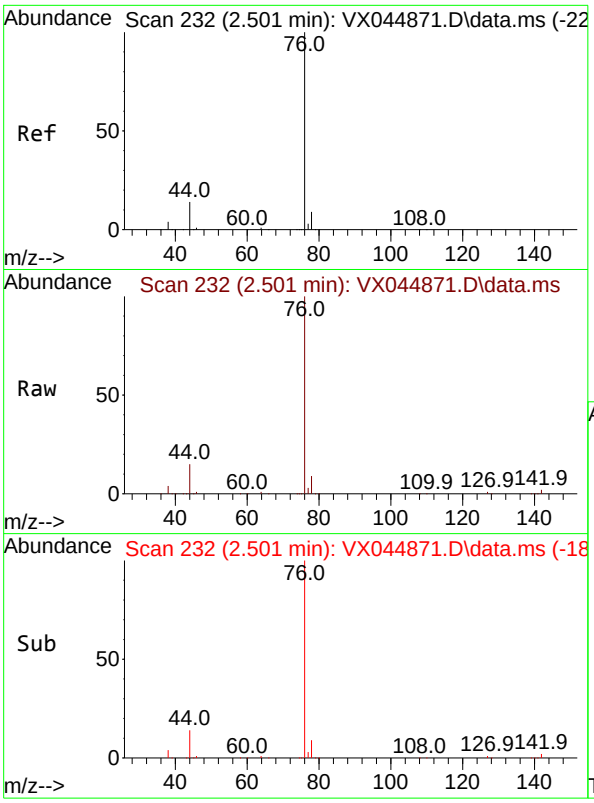


#16
Acetone
Concen: 249.274 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 187739

Ion	Ratio	Lower	Upper
43	100		
58	33.1	26.5	39.7



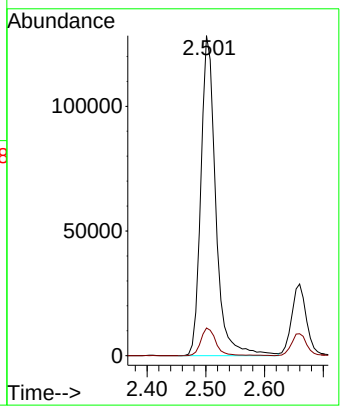


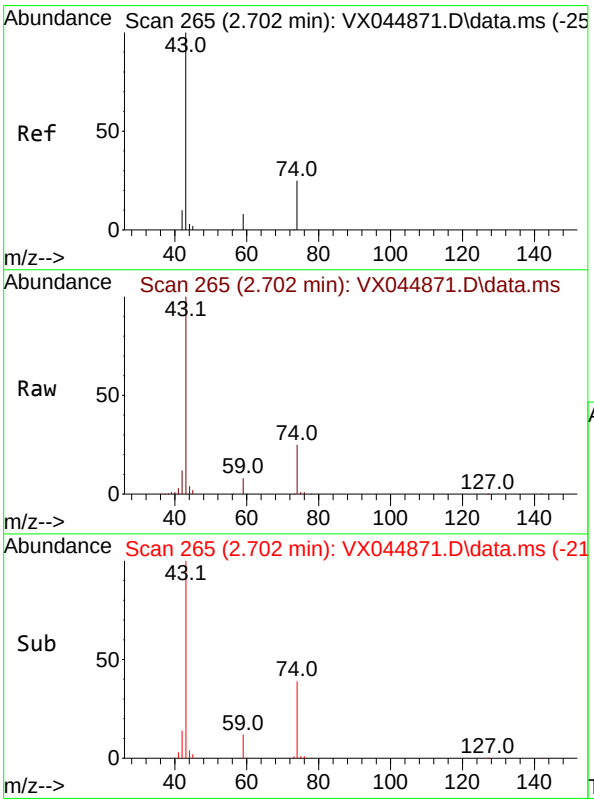
#17
Carbon Disulfide
Concen: 49.853 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 225511

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

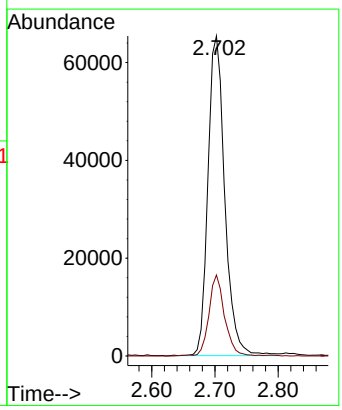


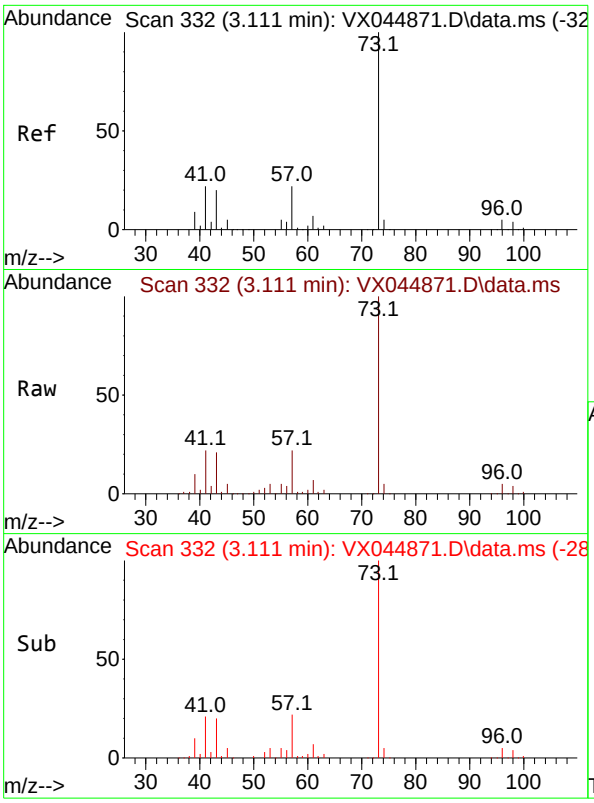


#18
Methyl Acetate
Concen: 50.928 ug/l
RT: 2.702 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 121039

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.9	28.3



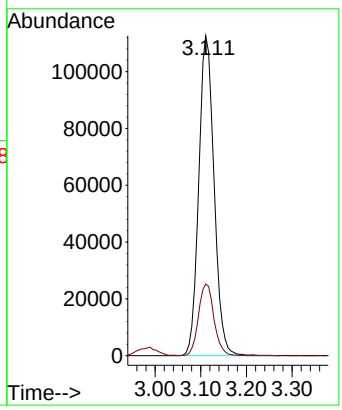


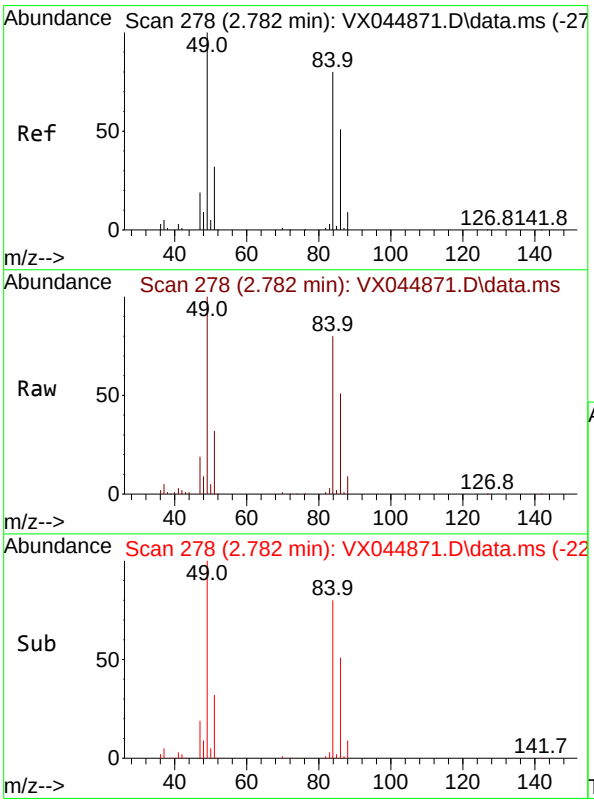
#19
Methyl tert-butyl Ether
Concen: 49.890 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 261852

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.9	26.9

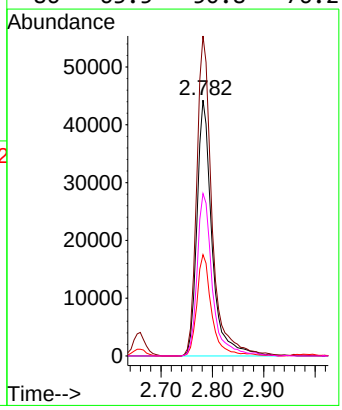


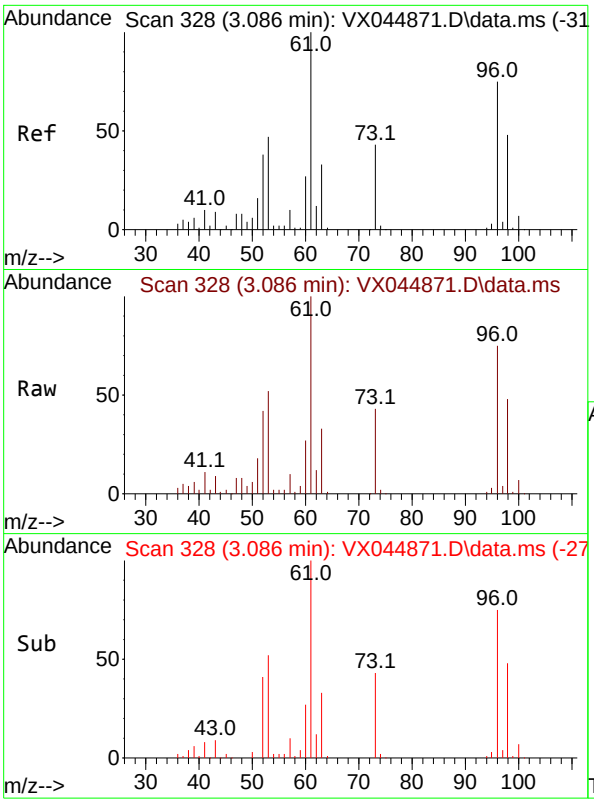


#20
Methylene Chloride
Concen: 48.808 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 84 Resp: 90038

Ion	Ratio	Lower	Upper
84	100		
49	125.1	100.1	150.1
51	39.6	31.7	47.5
86	63.5	50.8	76.2



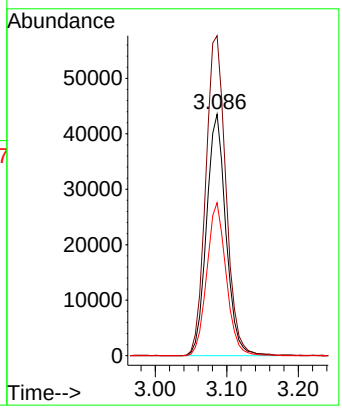


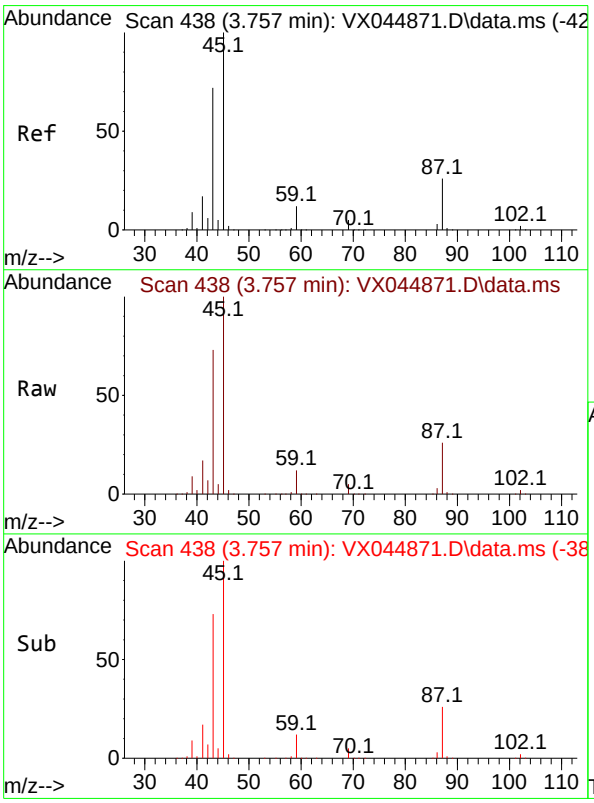
#21
trans-1,2-Dichloroethene
Concen: 50.475 ug/l
RT: 3.086 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 81950

Ion	Ratio	Lower	Upper
96	100		
61	132.5	106.0	159.0
98	63.3	50.6	76.0

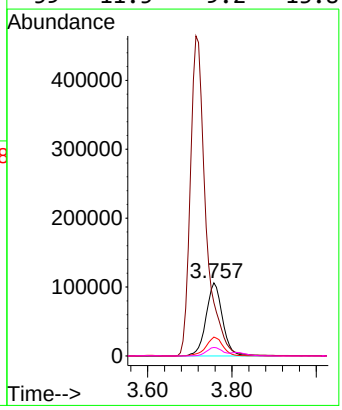


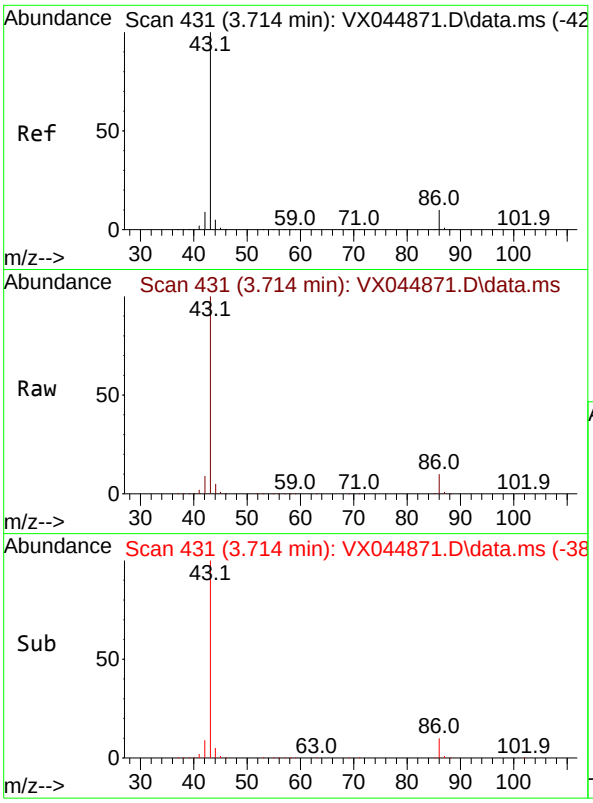


#22
Diisopropyl ether
Concen: 50.946 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 45 Resp: 287347

Ion	Ratio	Lower	Upper
45	100		
43	72.5	58.0	87.0
87	25.9	20.7	31.1
59	11.5	9.2	13.8



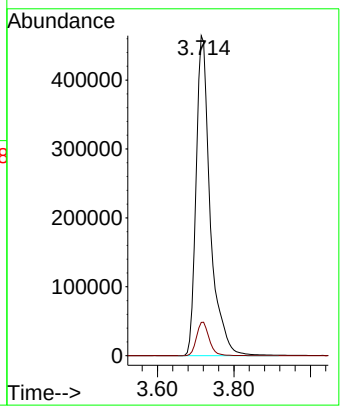


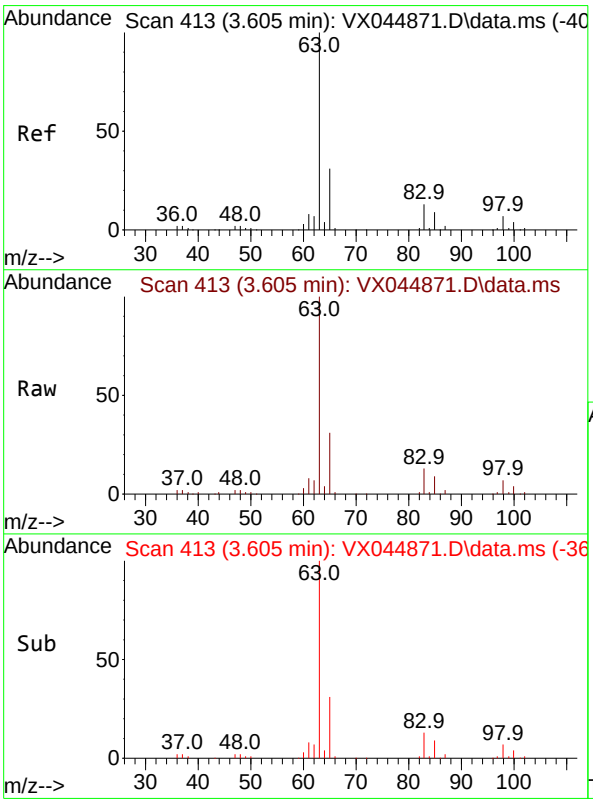
#23
Vinyl Acetate
Concen: 258.830 ug/l
RT: 3.714 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1190152

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5

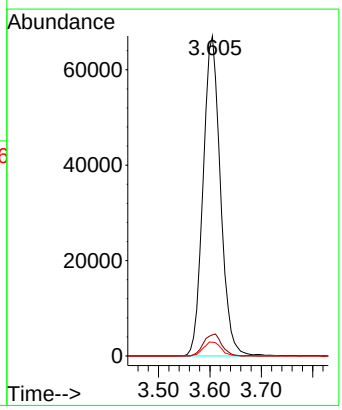


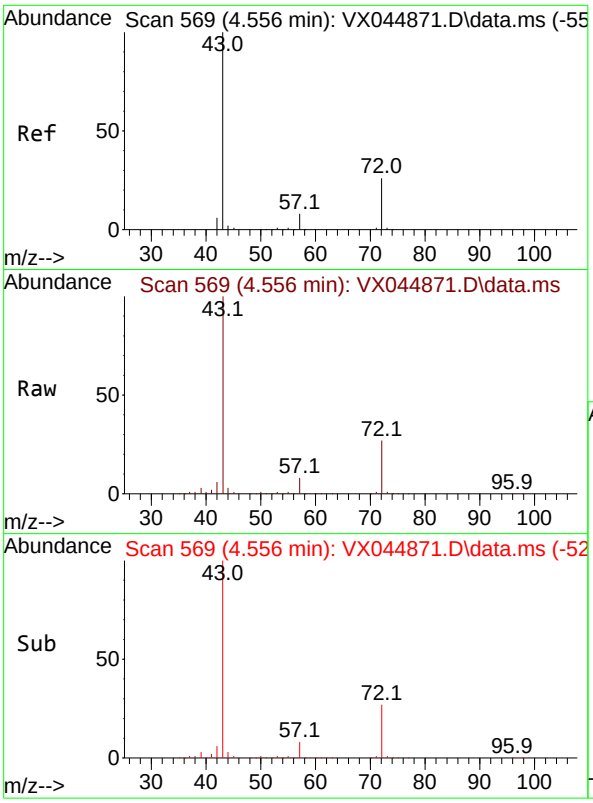


#24
1,1-Dichloroethane
Concen: 49.749 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 157003

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	4.3	2.1	6.5



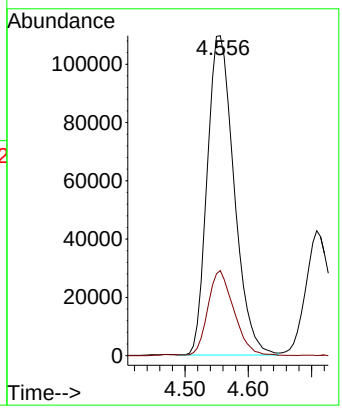


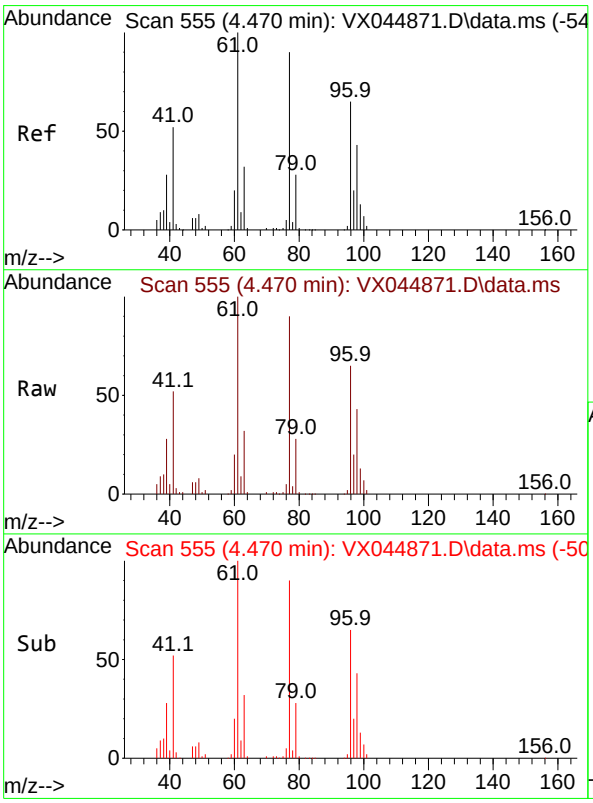
#25
2-Butanone
Concen: 264.528 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 323510

Ion	Ratio	Lower	Upper
43	100		
72	26.5	21.2	31.8

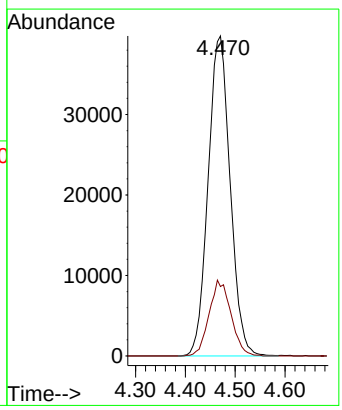


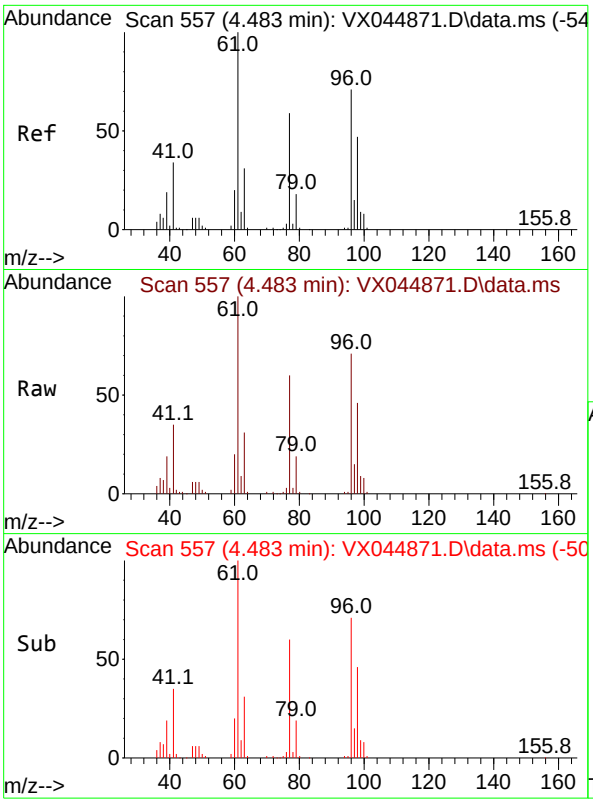


#26
2,2-Dichloropropane
Concen: 48.707 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 77 Resp: 121901

Ion	Ratio	Lower	Upper
77	100		
97	23.5	11.8	35.3



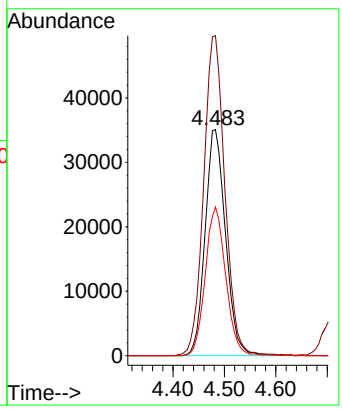


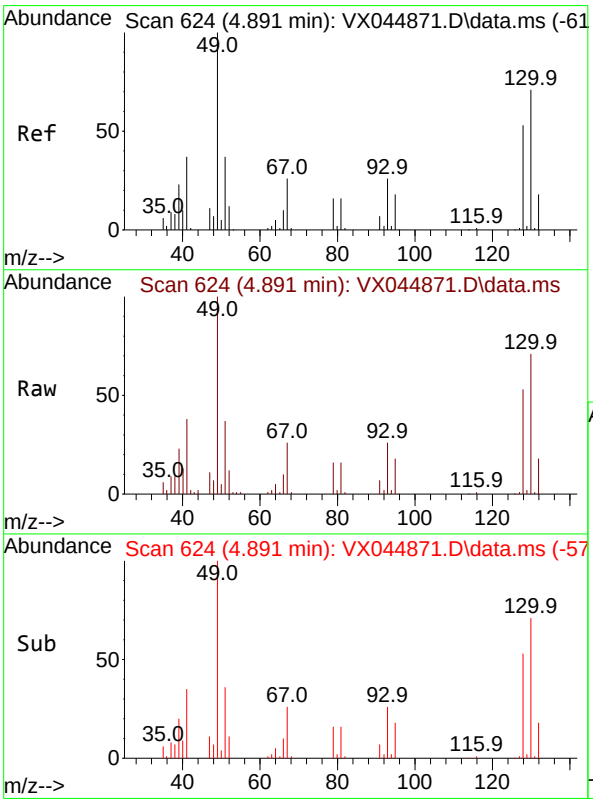
#27
cis-1,2-Dichloroethene
Concen: 49.721 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 96965

Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	294.0
98	65.6	0.0	131.2

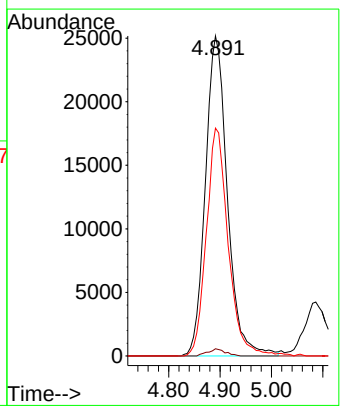


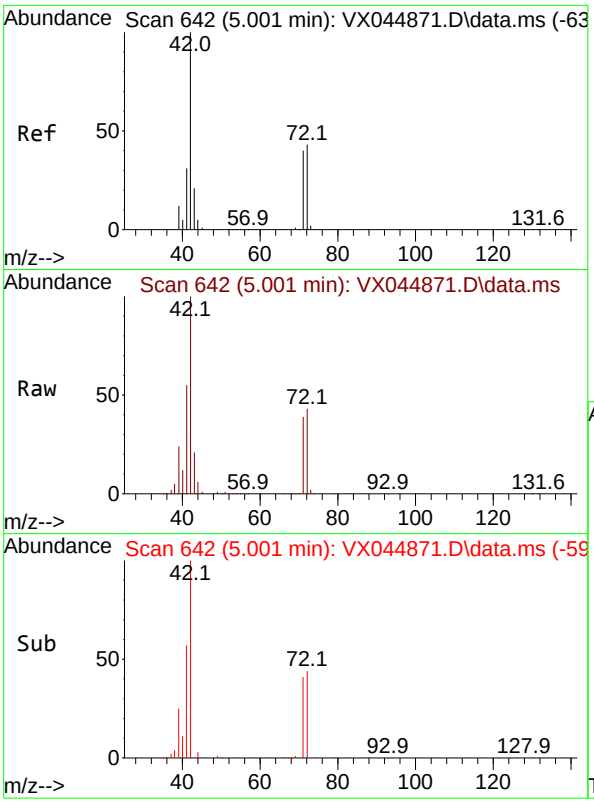


#28
Bromochloromethane
Concen: 49.258 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 49 Resp: 74707

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	70.9	56.7	85.1



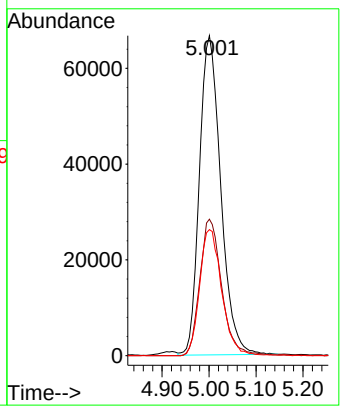


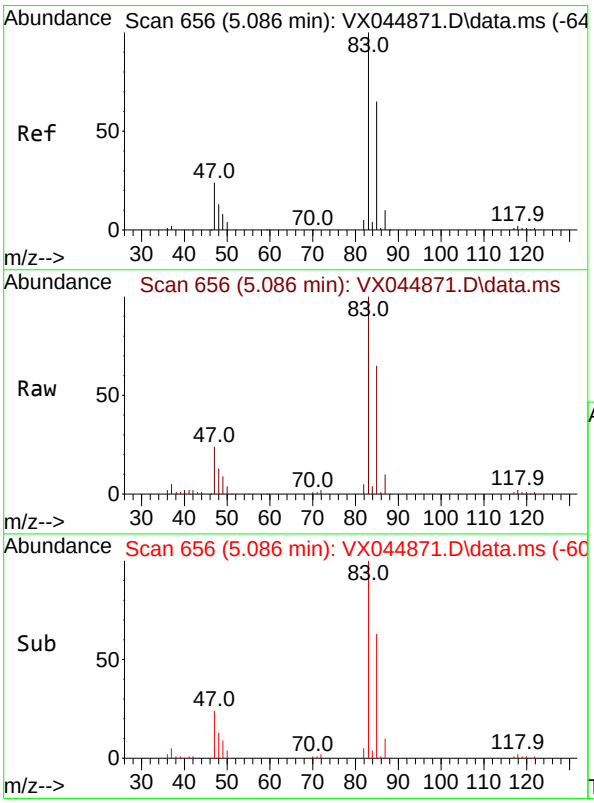
#29
Tetrahydrofuran
Concen: 259.105 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 210414

Ion	Ratio	Lower	Upper
42	100		
72	43.7	35.0	52.4
71	40.7	32.6	48.8

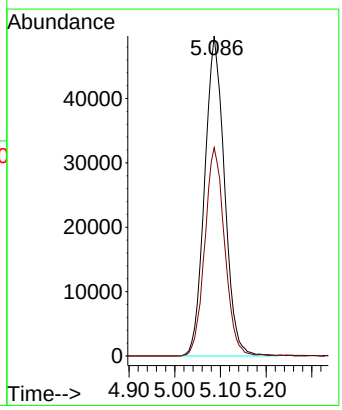


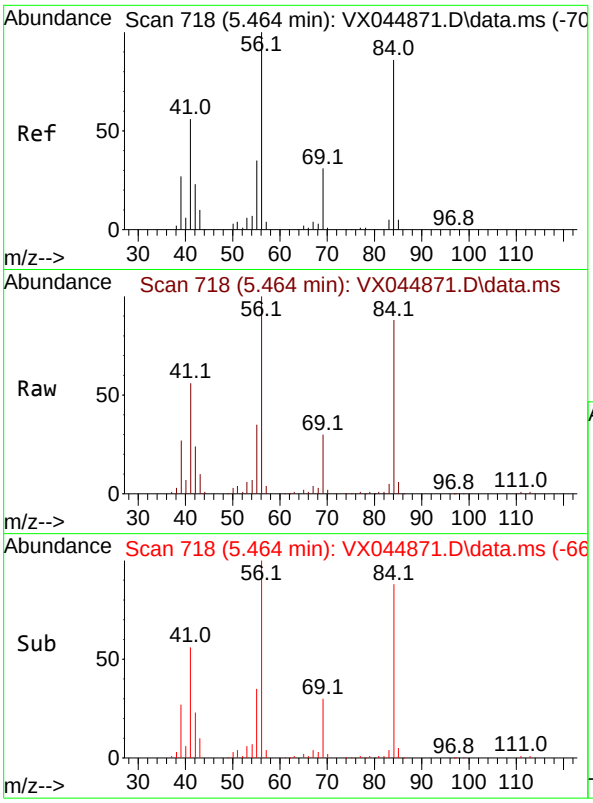


#30
Chloroform
Concen: 48.874 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 83 Resp: 149581

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1



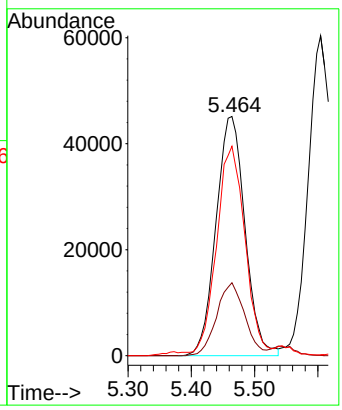


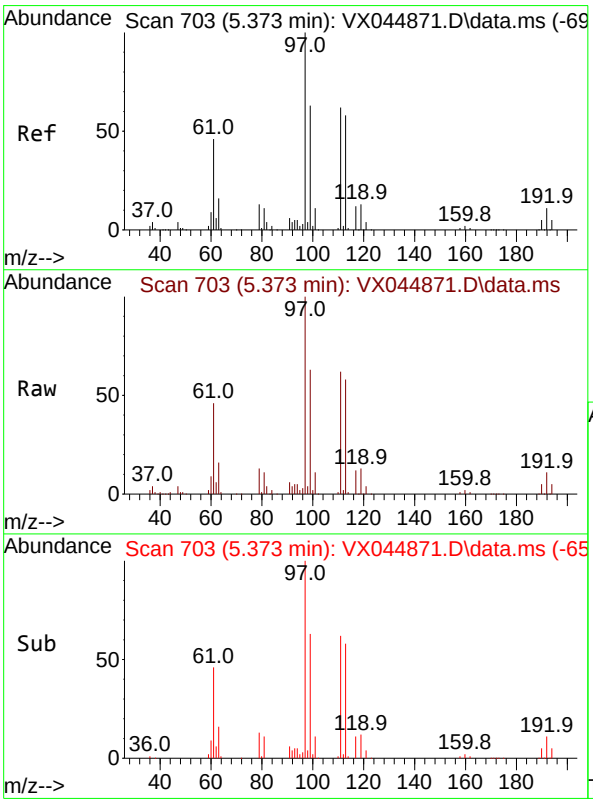
#31
Cyclohexane
Concen: 49.322 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 143500

Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.4	36.6
84	86.3	69.0	103.6

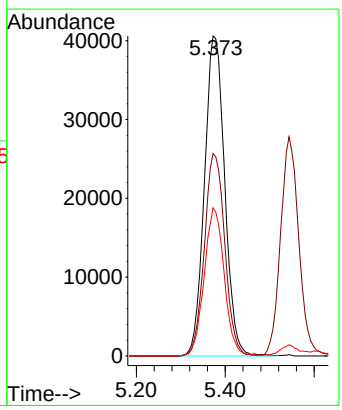


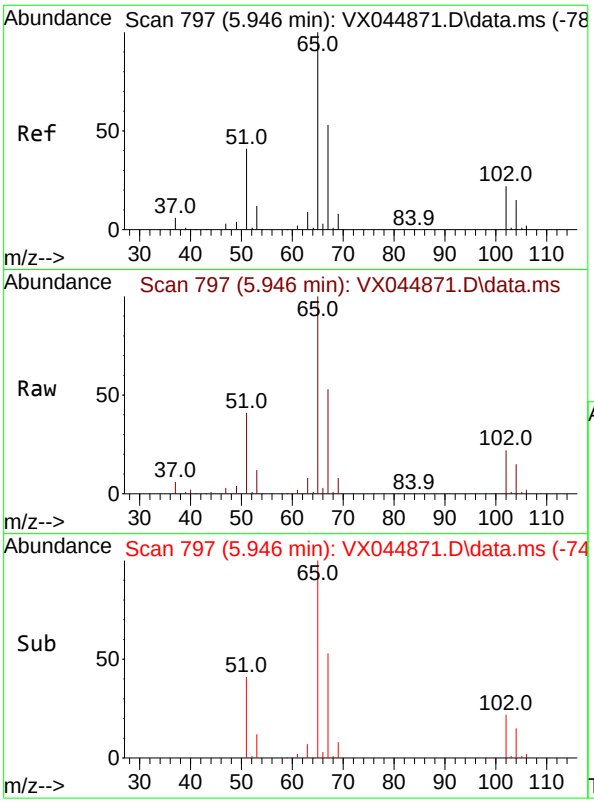


#32
1,1,1-Trichloroethane
Concen: 49.523 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 97 Resp: 128561

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.8	36.6	55.0



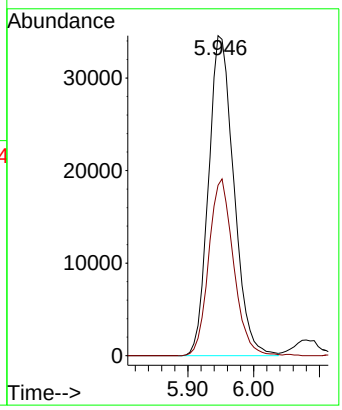


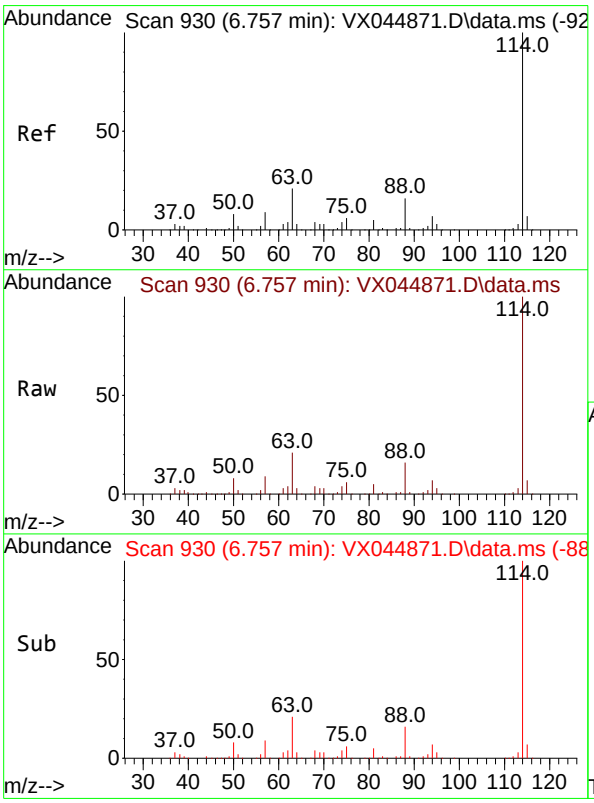
#33
1,2-Dichloroethane-d4
Concen: 49.424 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 92593

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	108.2

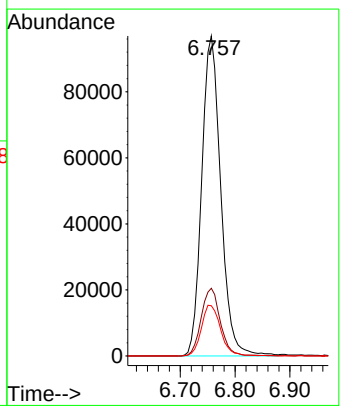


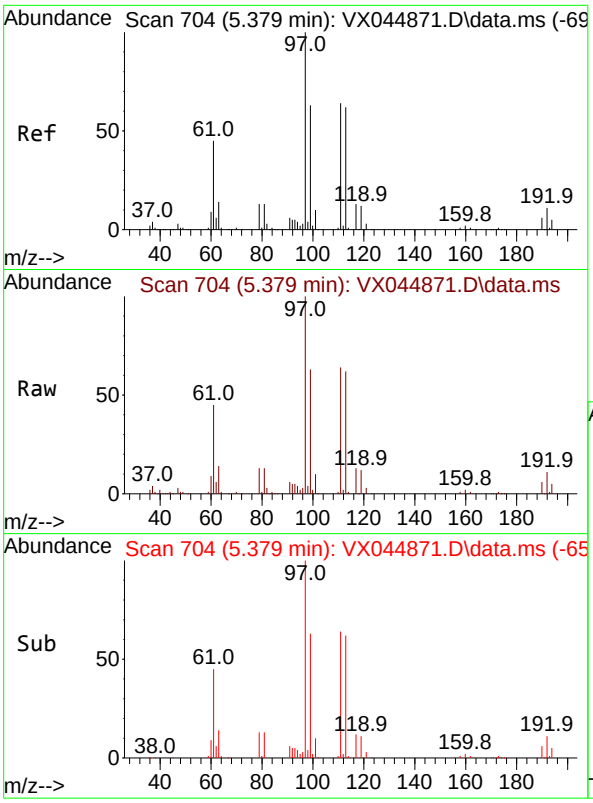


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:114 Resp: 233736

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	15.7	0.0	31.4



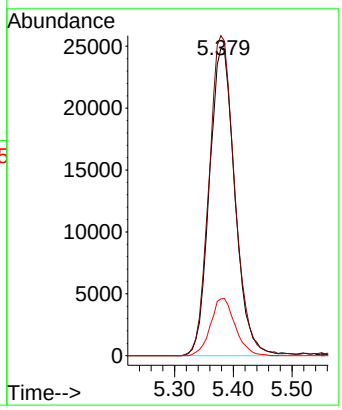


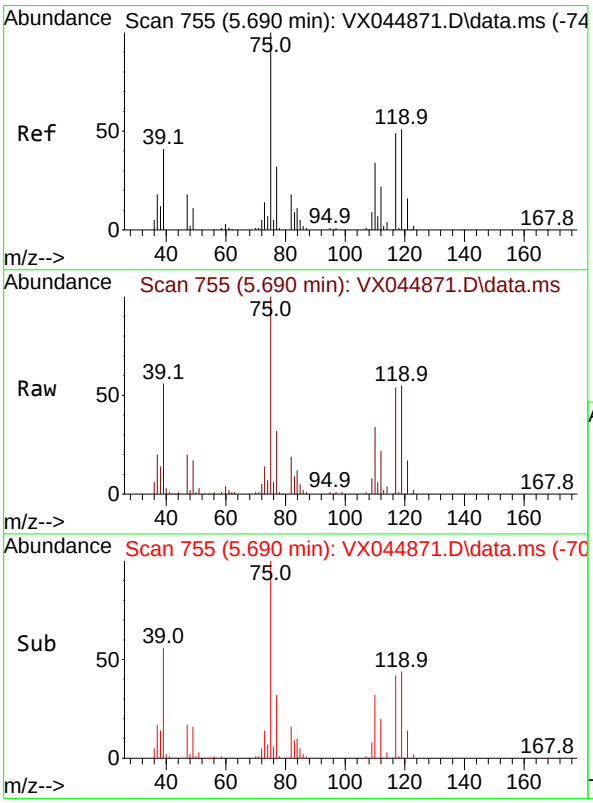
#35
Dibromofluoromethane
Concen: 49.291 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 74906

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	18.0	14.4	21.6

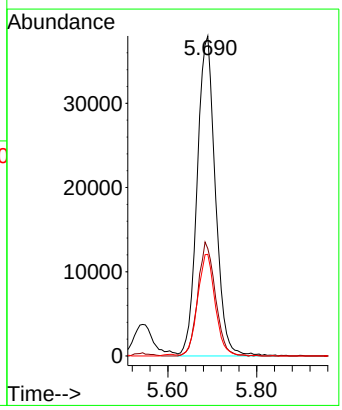


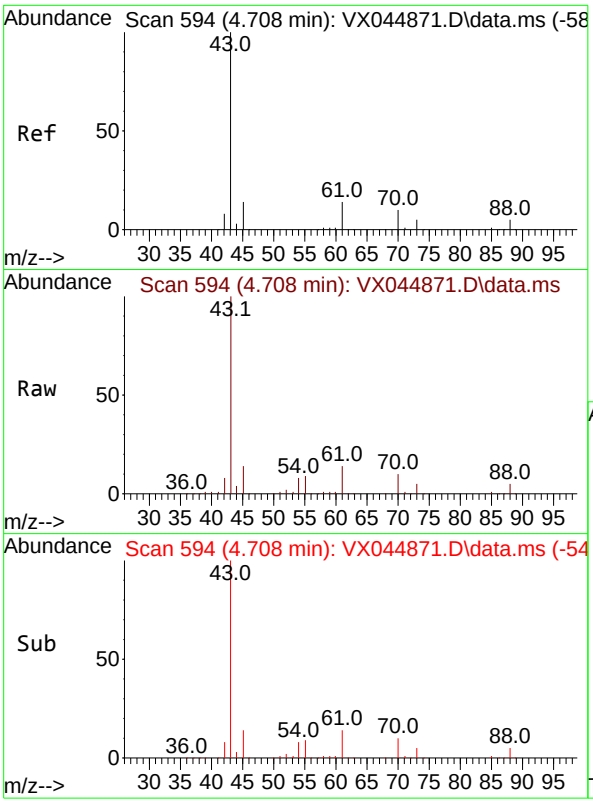


#36
1,1-Dichloropropene
Concen: 49.353 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 108206

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.8	24.6	37.0



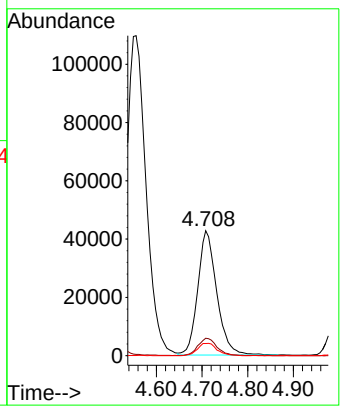


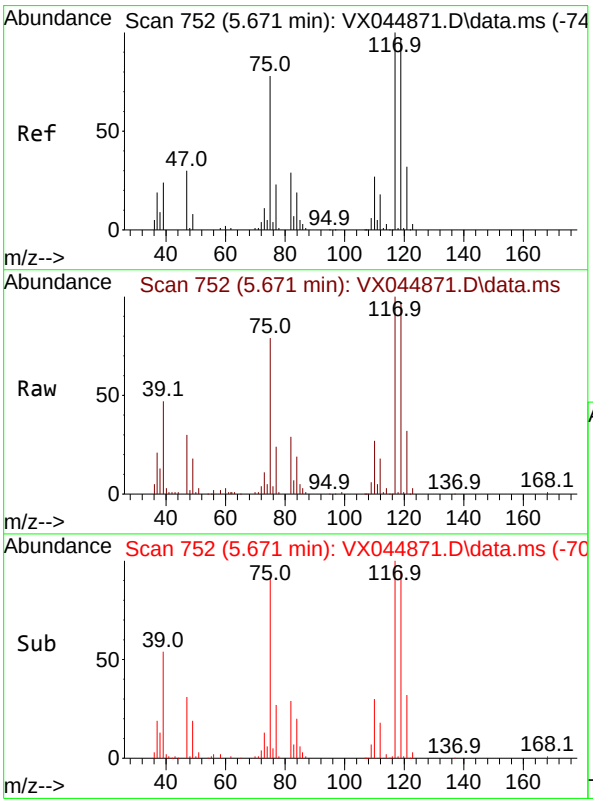
#37
Ethyl Acetate
Concen: 50.535 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 123238

Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.4
70	10.2	8.2	12.2

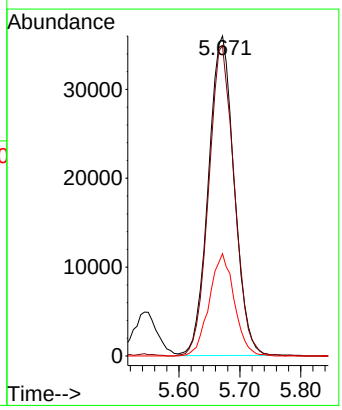


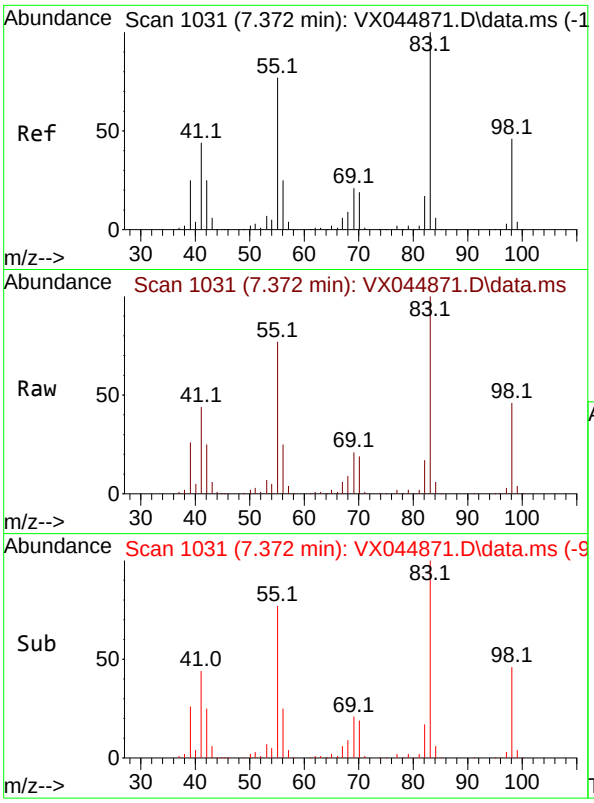


#38
Carbon Tetrachloride
Concen: 49.277 ug/l
RT: 5.671 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 105873

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.5	116.3
121	32.0	25.6	38.4



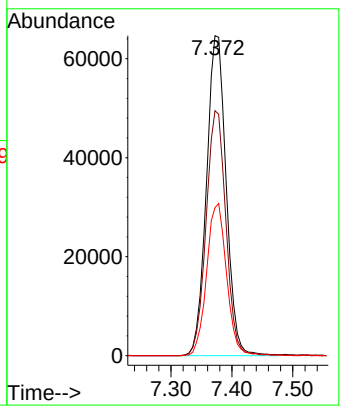


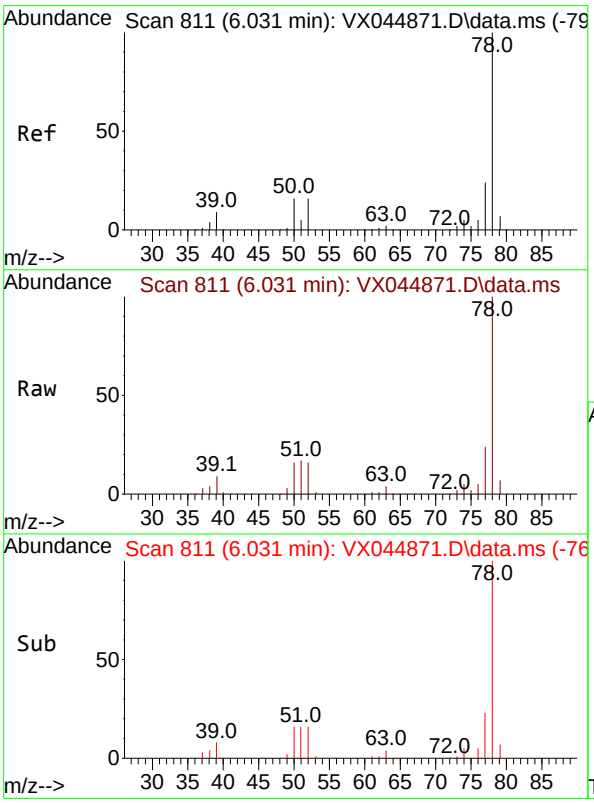
#39
Methylcyclohexane
Concen: 51.274 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 145338

Ion	Ratio	Lower	Upper
83	100		
55	76.6	61.3	91.9
98	46.3	37.0	55.6

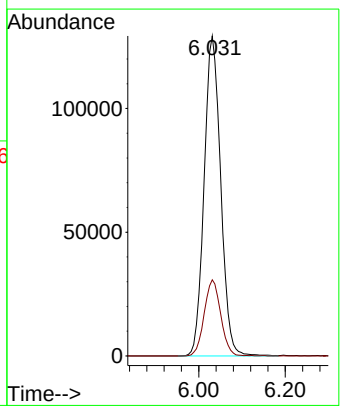


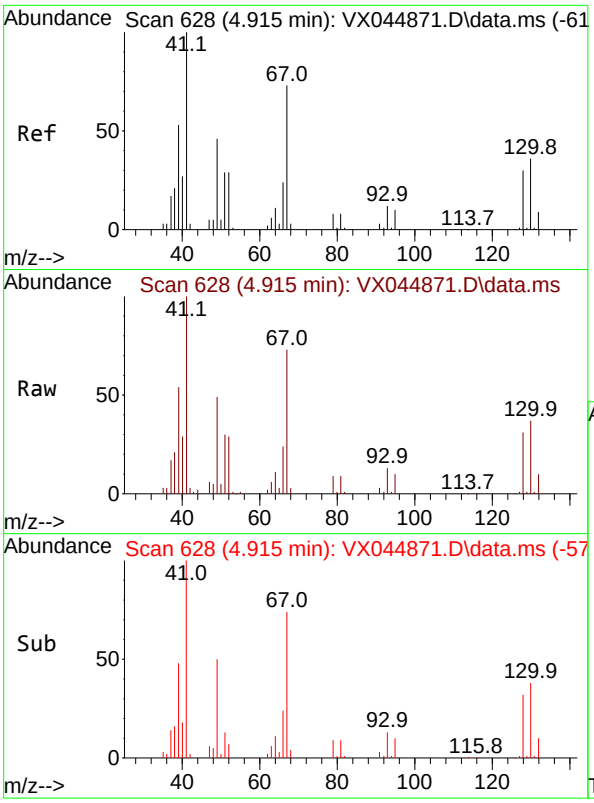


#40
Benzene
Concen: 50.182 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 78 Resp: 343557

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6



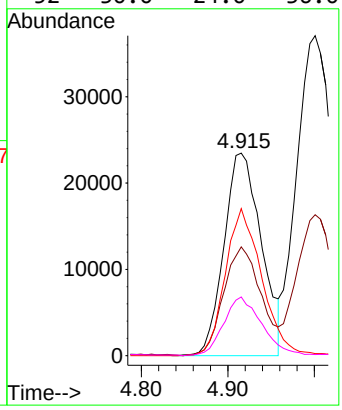


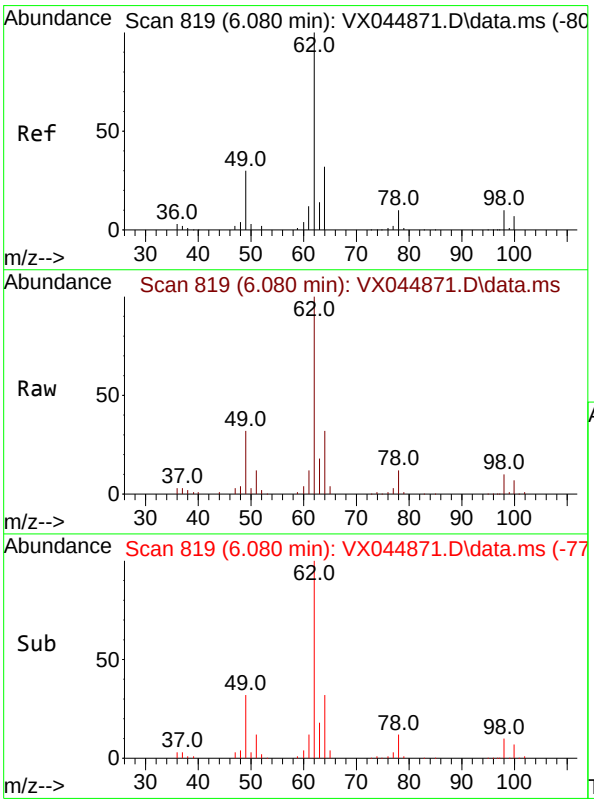
#41
Methacrylonitrile
Concen: 54.065 ug/l
RT: 4.915 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 70572

Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.1	64.7
67	71.3	57.0	85.6
52	30.0	24.0	36.0

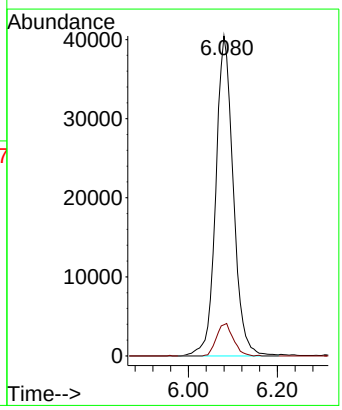


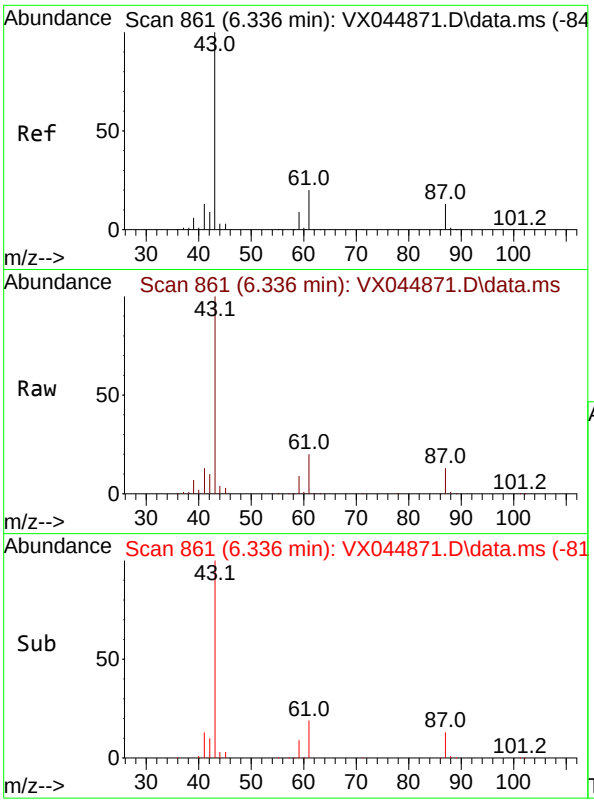


#42
1,2-Dichloroethane
Concen: 50.573 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 62 Resp: 110347

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4



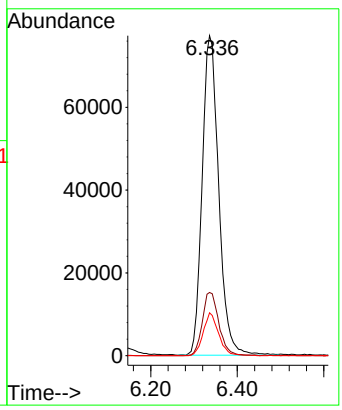


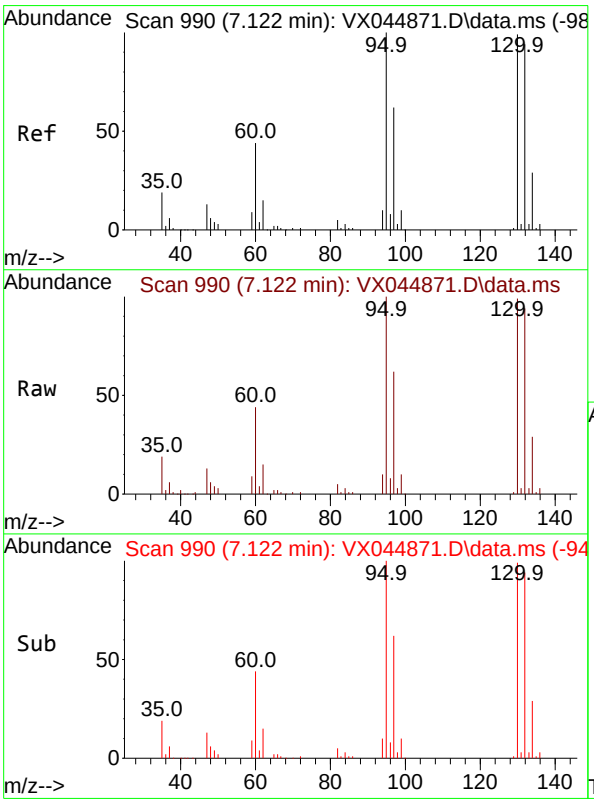
#43
Isopropyl Acetate
Concen: 51.981 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 204703

Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.8	23.8
87	12.5	10.0	15.0

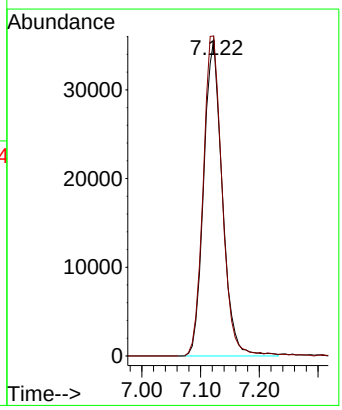


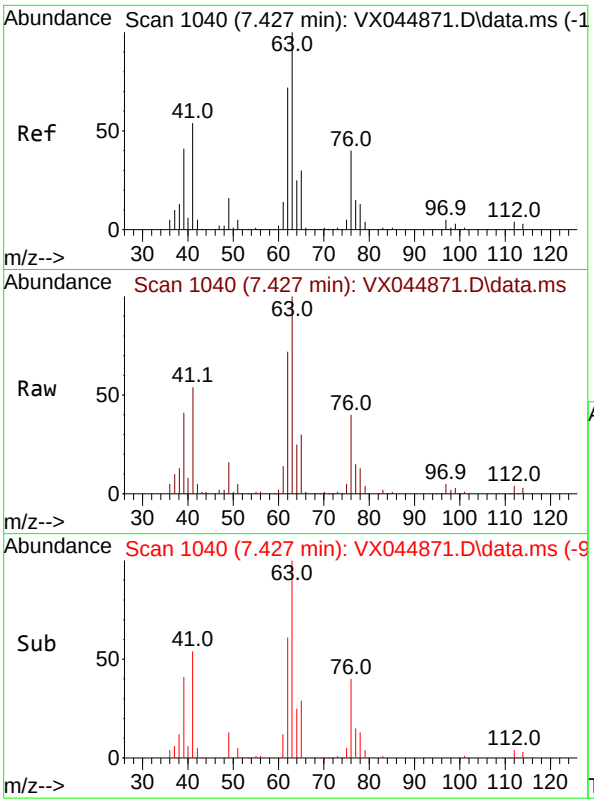


#44
Trichloroethene
Concen: 50.020 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:130 Resp: 78274

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	202.4



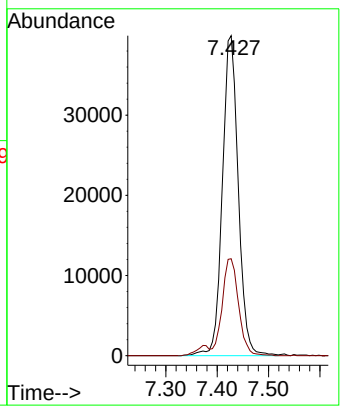


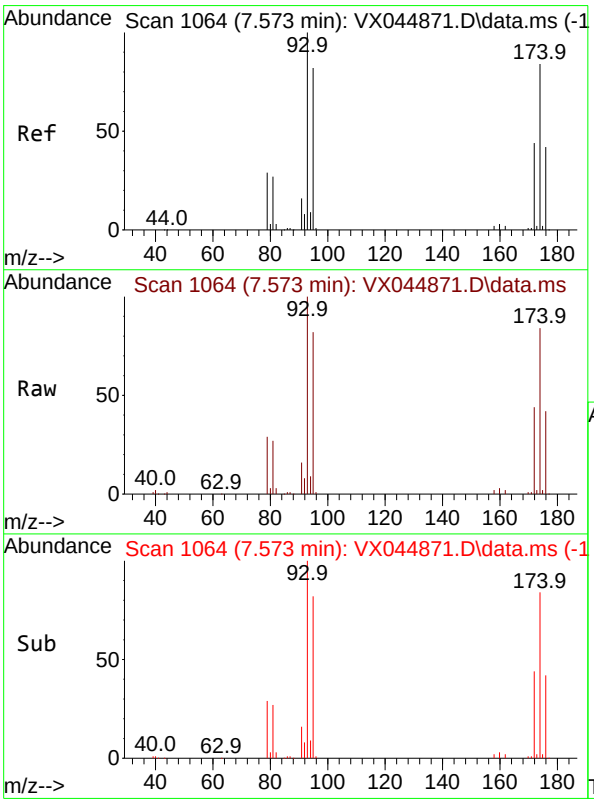
#45
1,2-Dichloropropane
Concen: 50.335 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 85733

Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.2	36.4

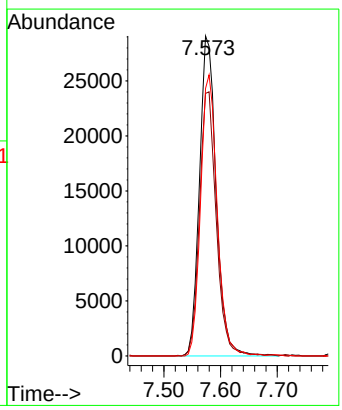


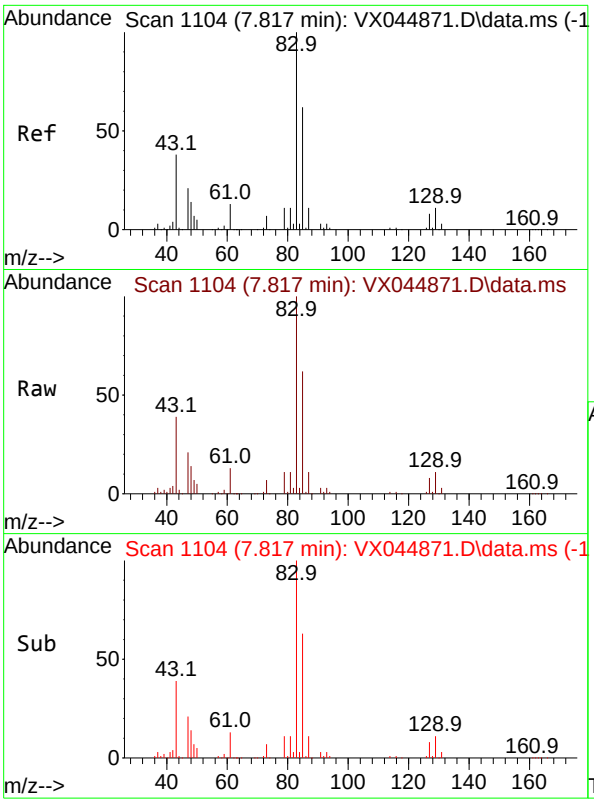


#46
Dibromomethane
Concen: 50.479 ug/l
RT: 7.573 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 93 Resp: 59625

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.4
174	87.4	69.9	104.9



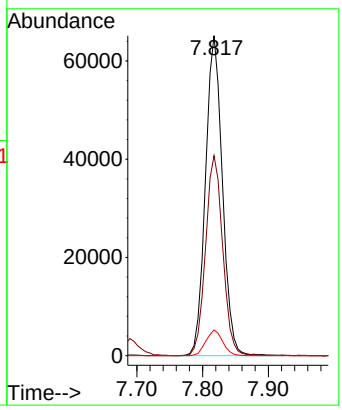


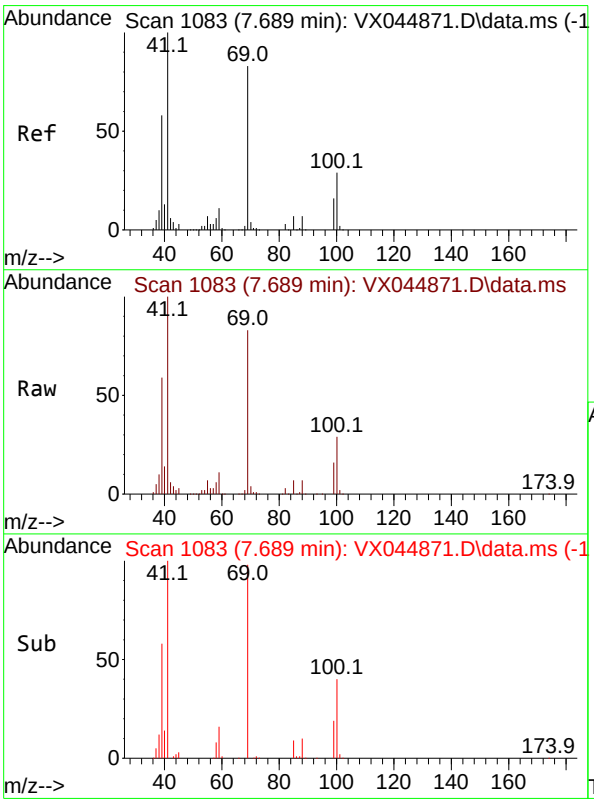
#47
Bromodichloromethane
Concen: 51.108 ug/l
RT: 7.817 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 116892

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0
127	8.0	6.4	9.6

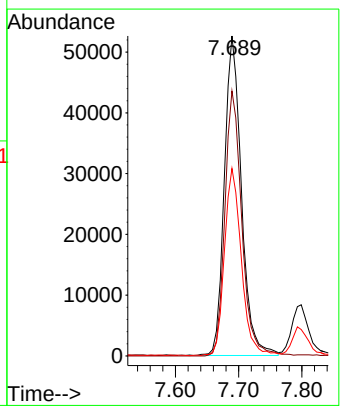


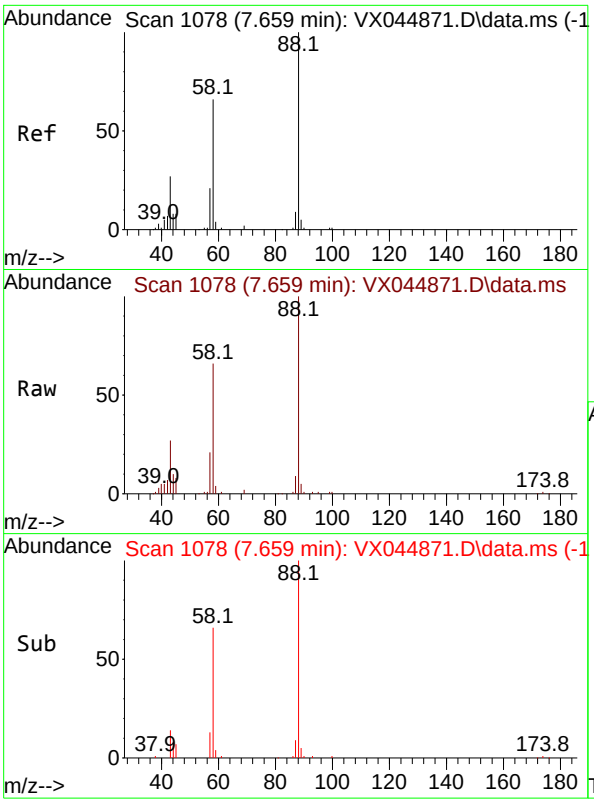


#48
Methyl methacrylate
Concen: 53.057 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 41 Resp: 98519

Ion	Ratio	Lower	Upper
41	100		
69	82.3	65.8	98.8
39	58.0	46.4	69.6



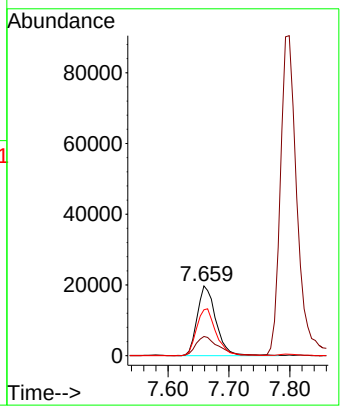


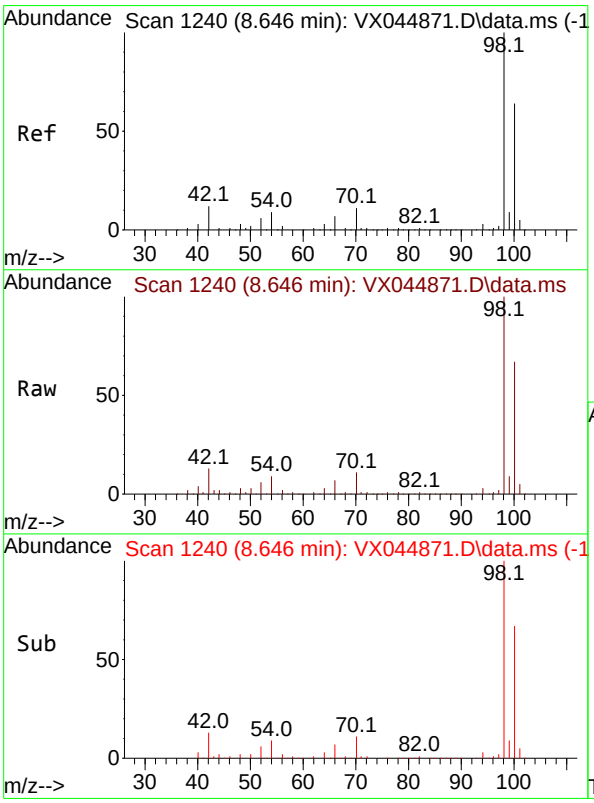
#49
1,4-Dioxane
Concen: 1056.618 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 42094

Ion	Ratio	Lower	Upper
88	100		
43	33.2	26.6	39.8
58	69.9	55.9	83.9

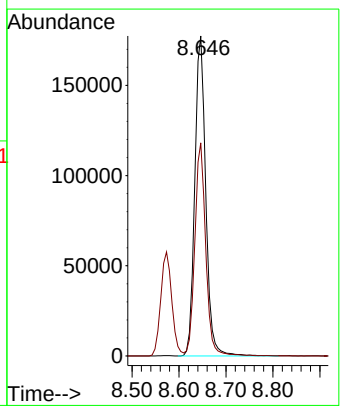


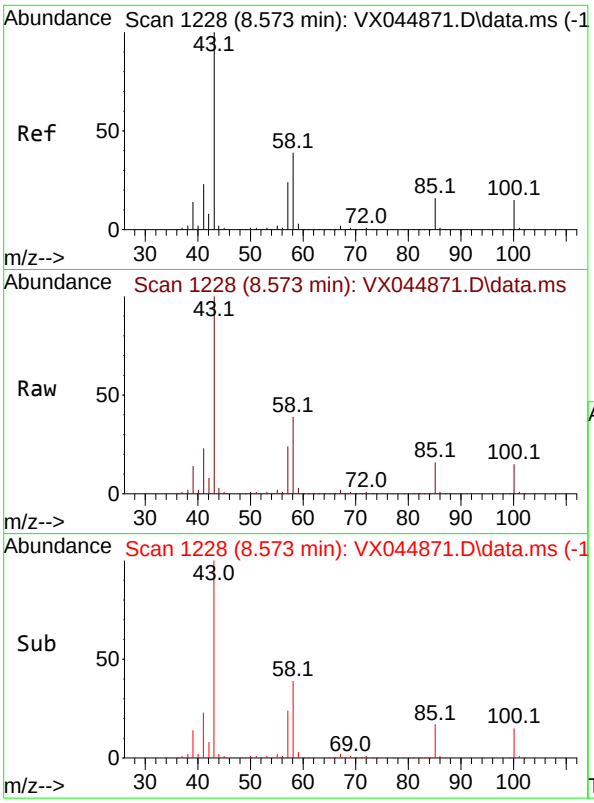


#50
Toluene-d8
Concen: 50.392 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 98 Resp: 289575

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1



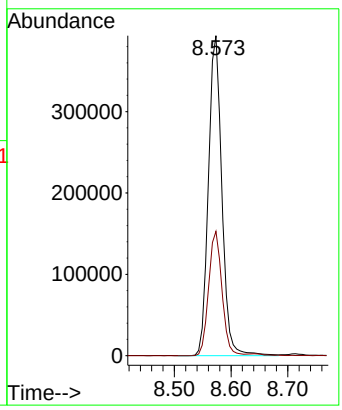


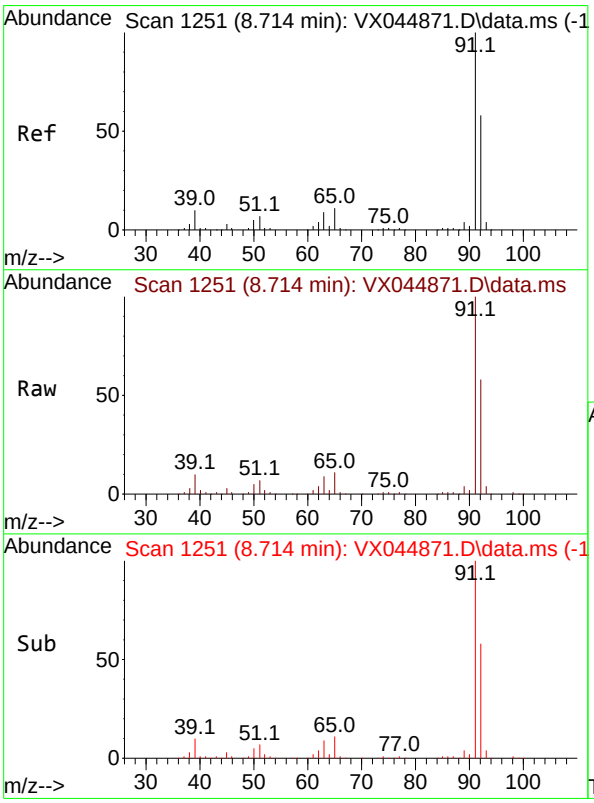
#51
4-Methyl-2-Pentanone
Concen: 270.364 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 647283

Ion	Ratio	Lower	Upper
43	100		
58	38.5	30.8	46.2

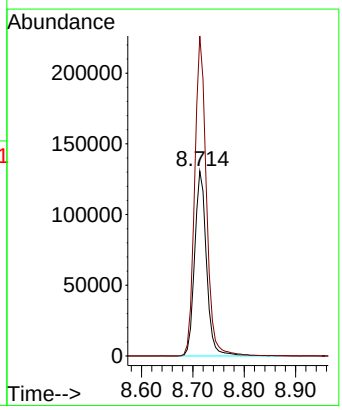


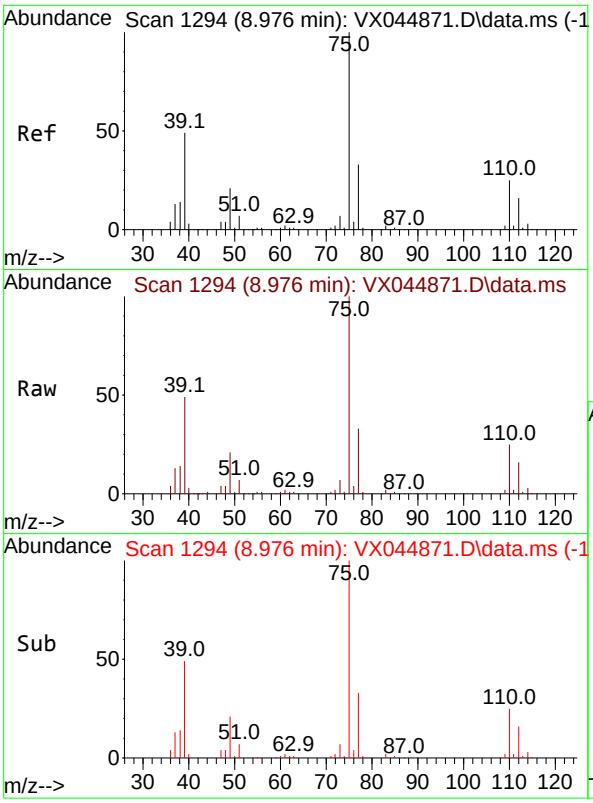


#52
Toluene
Concen: 51.507 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 92 Resp: 210007

Ion	Ratio	Lower	Upper
92	100		
91	171.8	137.4	206.2



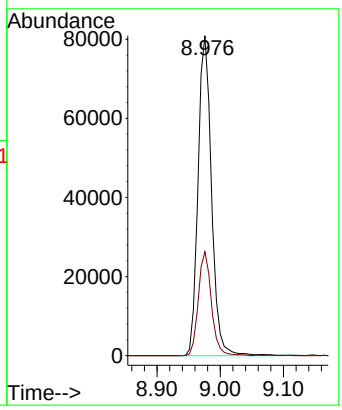


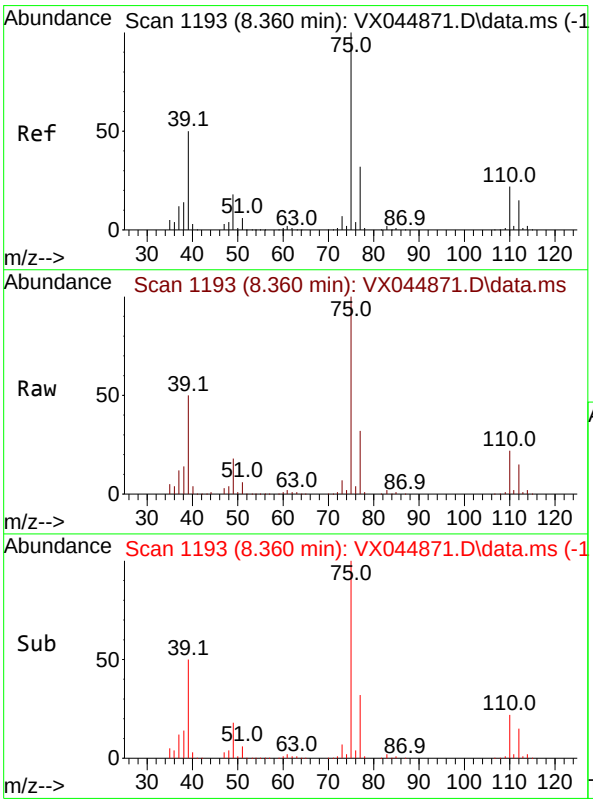
#53
t-1,3-Dichloropropene
Concen: 51.902 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 120125

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.0	39.0

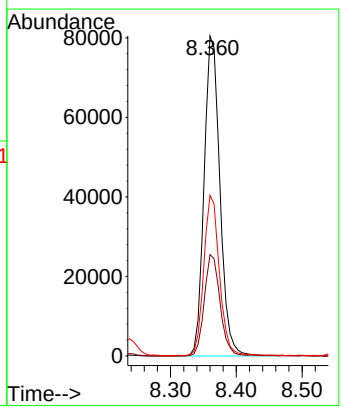


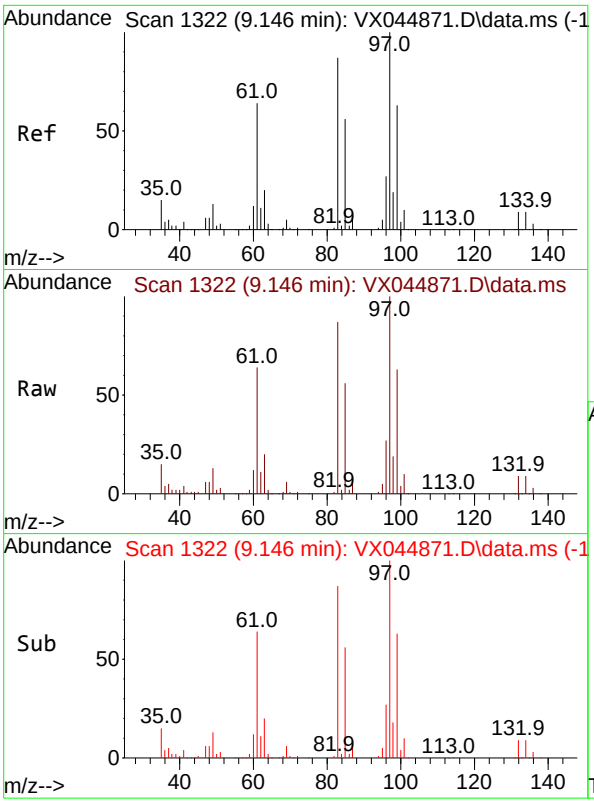


#54
cis-1,3-Dichloropropene
Concen: 52.223 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 134763

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.3	37.9
39	50.0	40.0	60.0



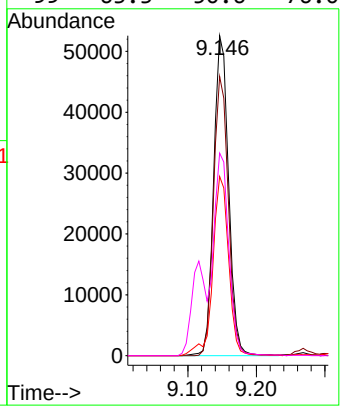


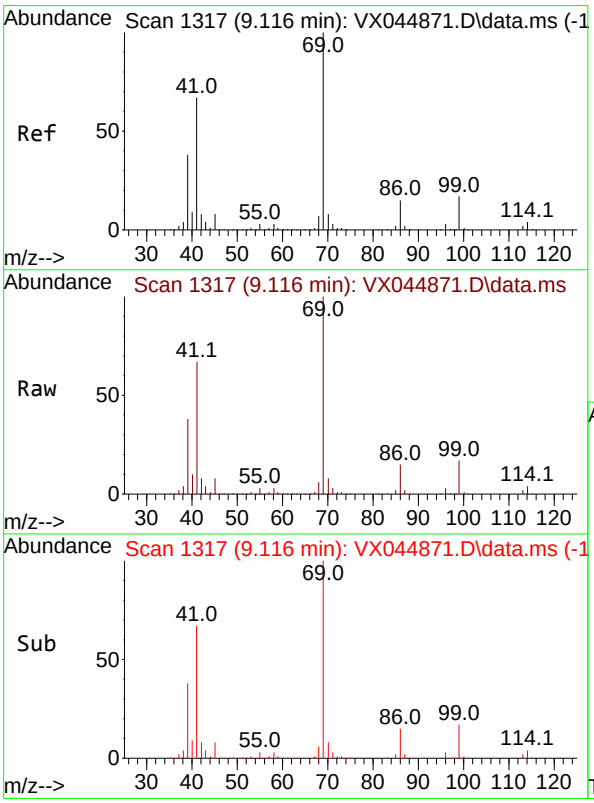
#55
1,1,2-Trichloroethane
Concen: 50.876 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 79741

Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.8	104.6
85	56.0	44.8	67.2
99	63.3	50.6	76.0

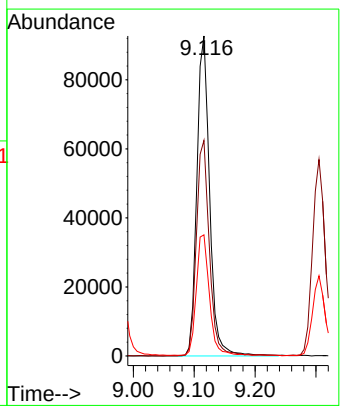


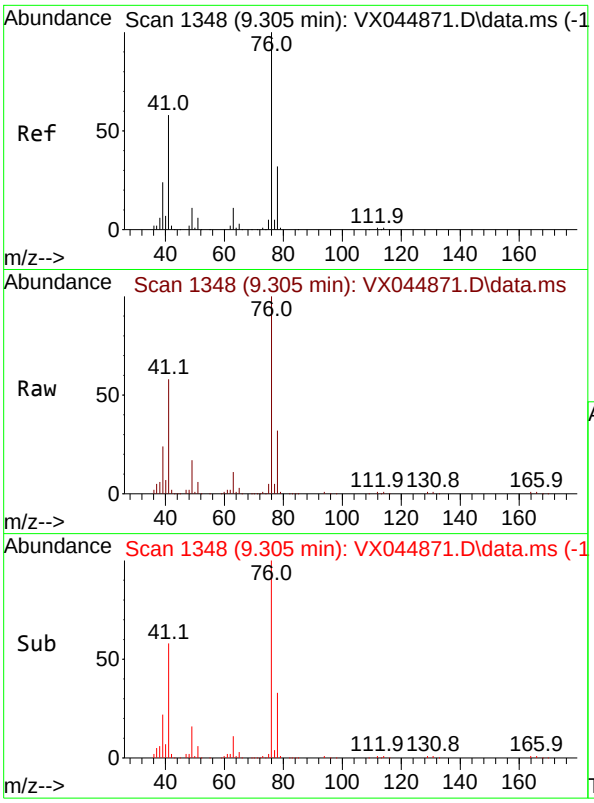


#56
Ethyl methacrylate
Concen: 53.319 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 69 Resp: 134975

Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.2	82.8
39	38.5	30.8	46.2



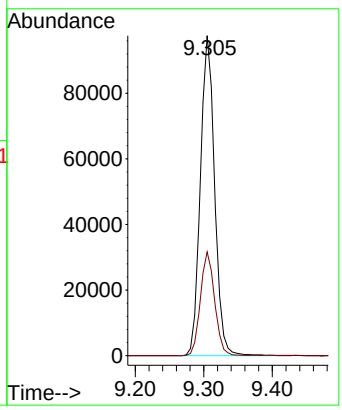


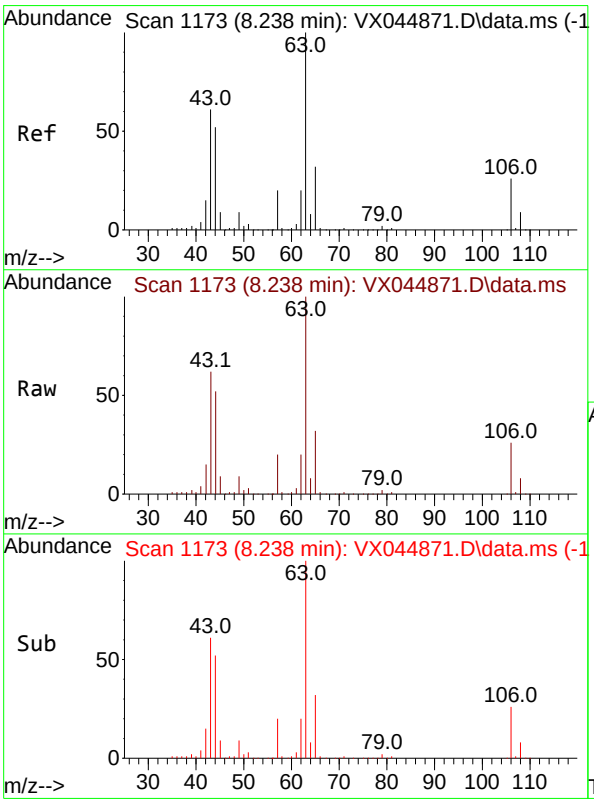
#57
1,3-Dichloropropane
Concen: 51.537 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 141335

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

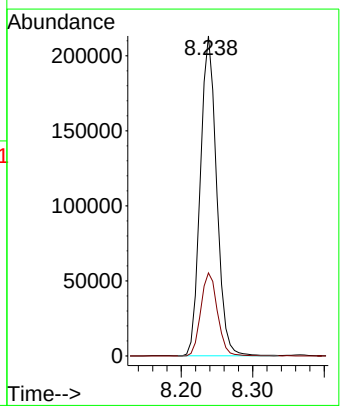


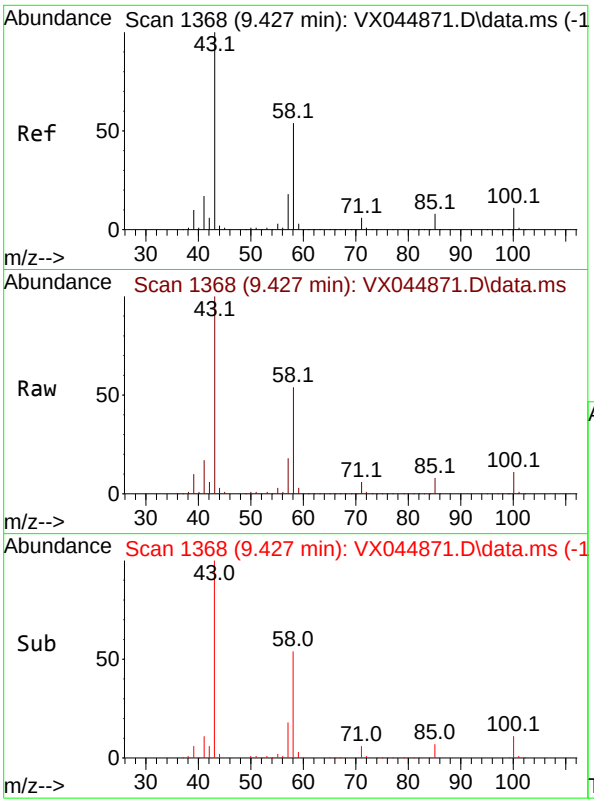


#58
2-Chloroethyl Vinyl ether
Concen: 270.652 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 63 Resp: 336412

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9



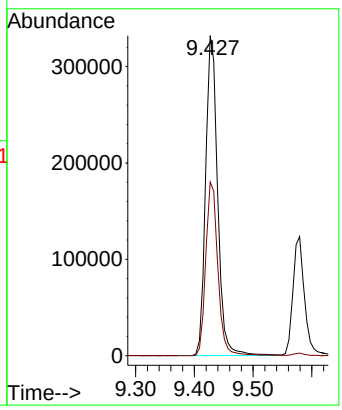


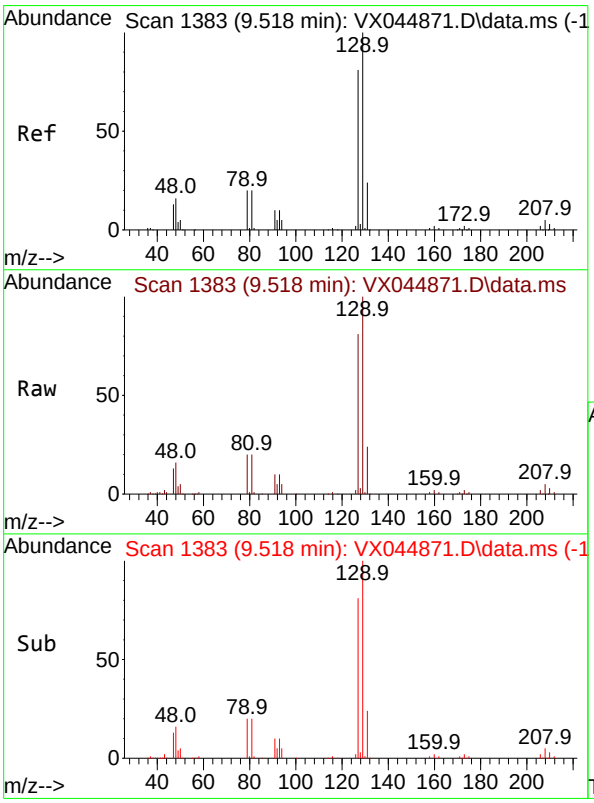
#59
2-Hexanone
Concen: 273.800 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 472301

Ion	Ratio	Lower	Upper
43	100		
58	54.9	27.5	82.4

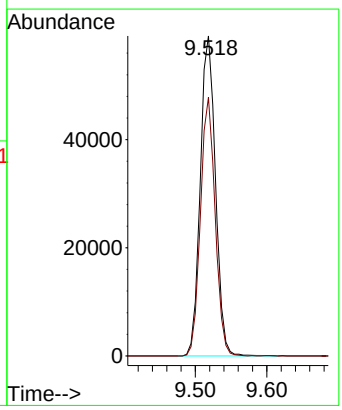


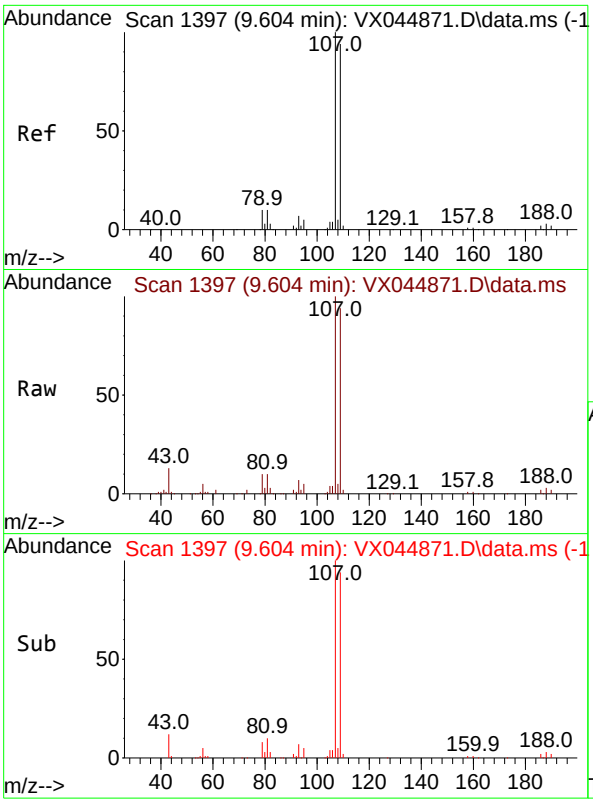


#60
Dibromochloromethane
Concen: 52.045 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:129 Resp: 87240

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3



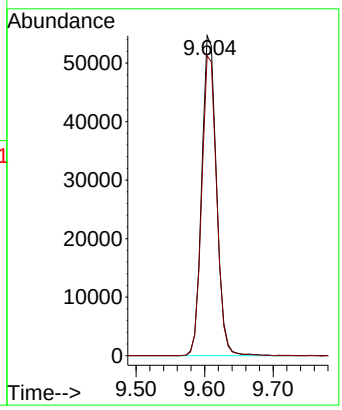


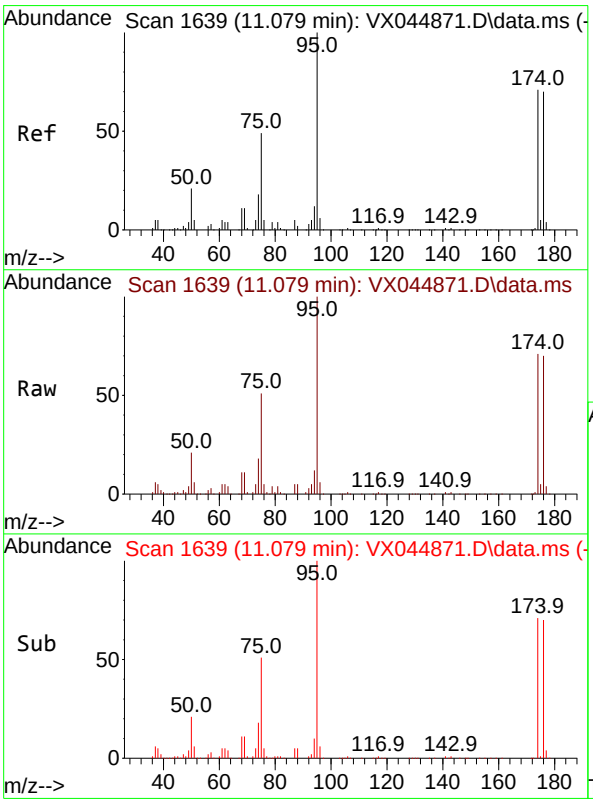
#61
1,2-Dibromoethane
Concen: 51.564 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 81915

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.9	113.9

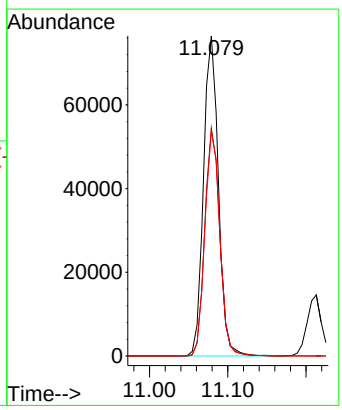


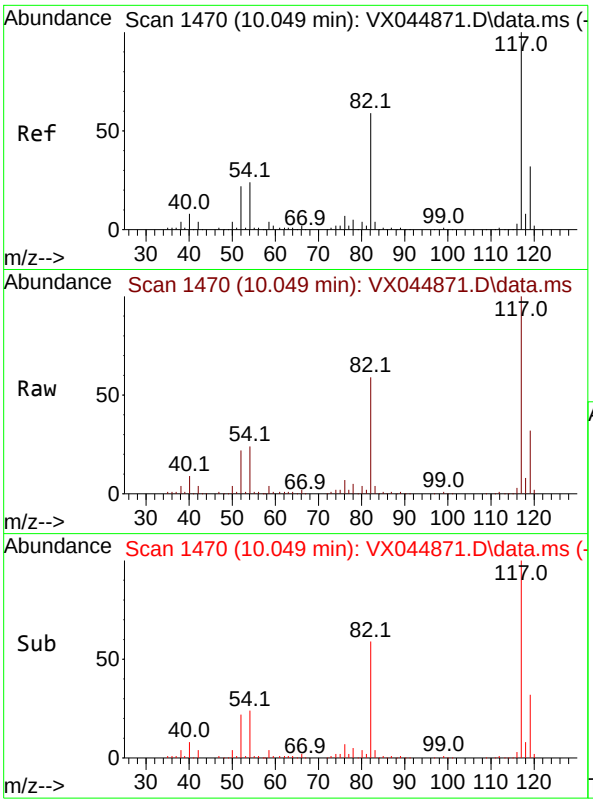


#62
4-Bromofluorobenzene
Concen: 52.031 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 95 Resp: 100798

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	142.6
176	70.8	0.0	141.6



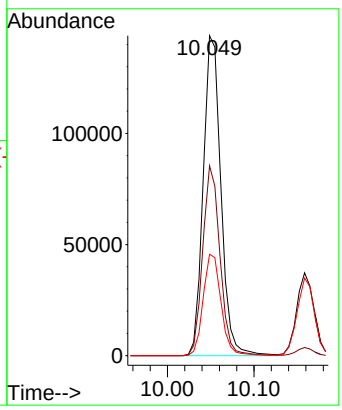


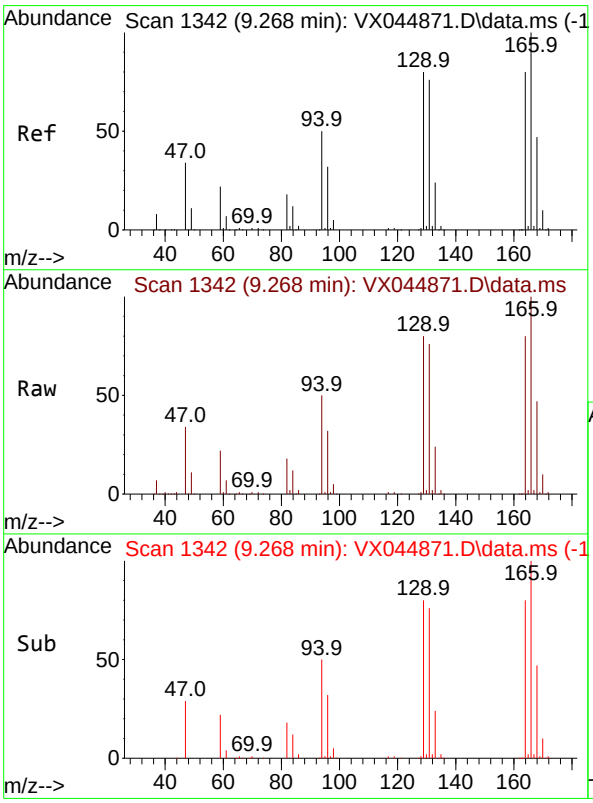
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 204751

Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.5	71.3
119	31.7	25.4	38.0

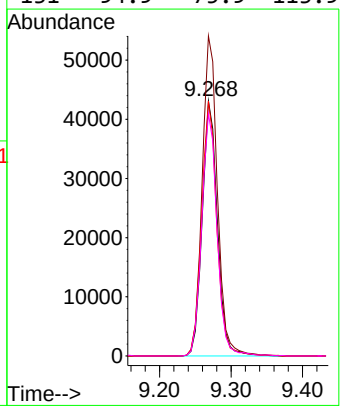


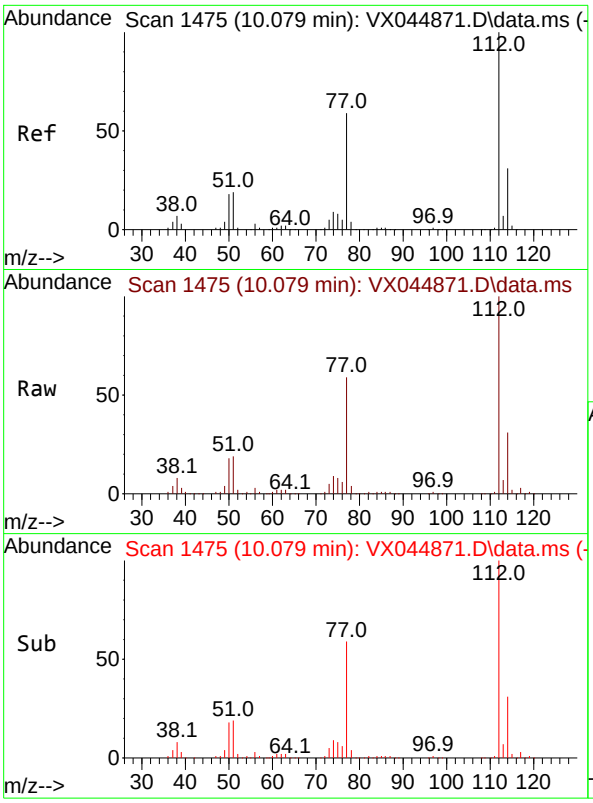


#64
Tetrachloroethene
Concen: 49.206 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:164 Resp: 63537

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	99.9	79.9	119.9
131	94.9	75.9	113.9



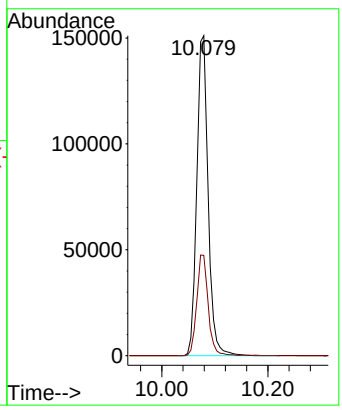


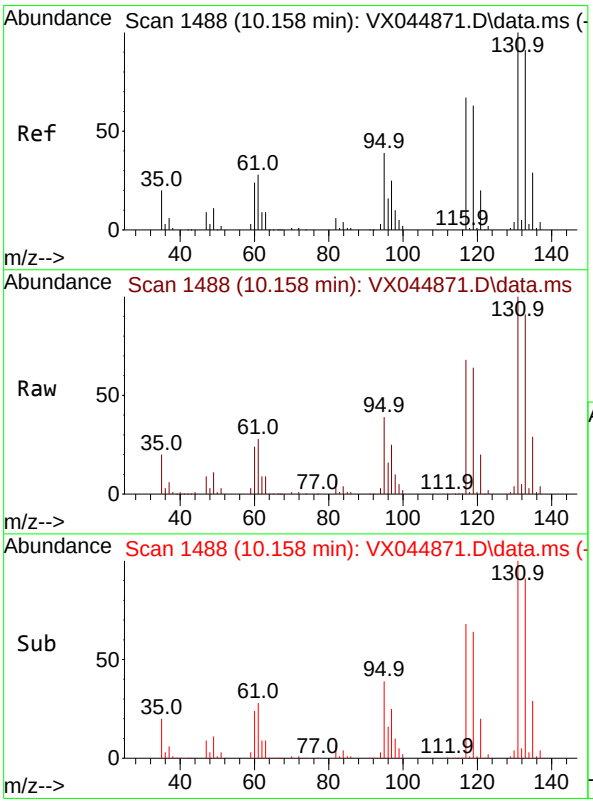
#65
Chlorobenzene
Concen: 51.005 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 224306

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6

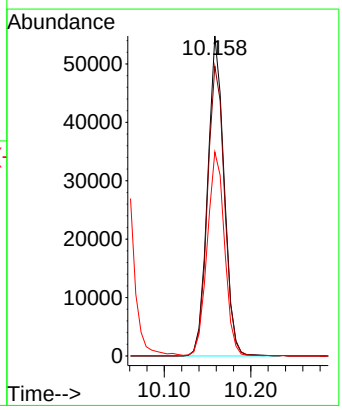


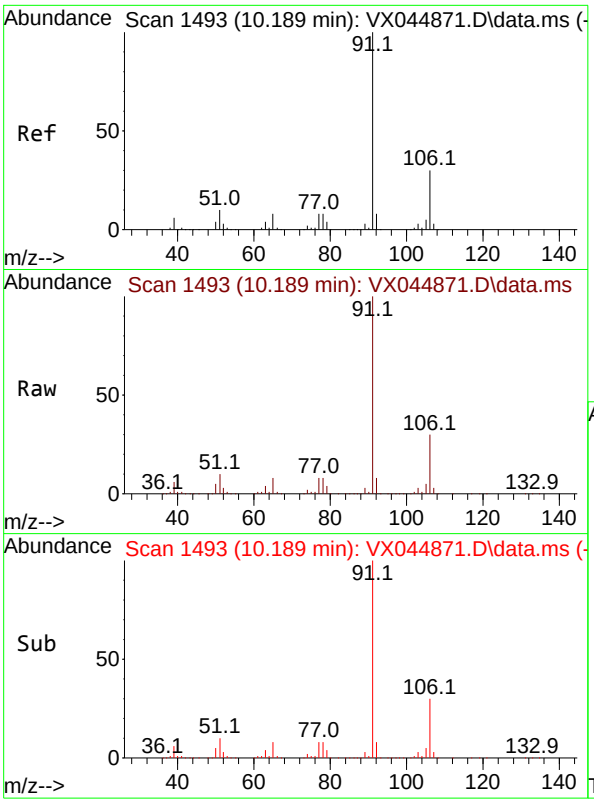


#66
1,1,1,2-Tetrachloroethane
Concen: 51.203 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:131 Resp: 72478

Ion	Ratio	Lower	Upper
131	100		
133	94.2	47.1	141.3
119	67.1	33.6	100.6



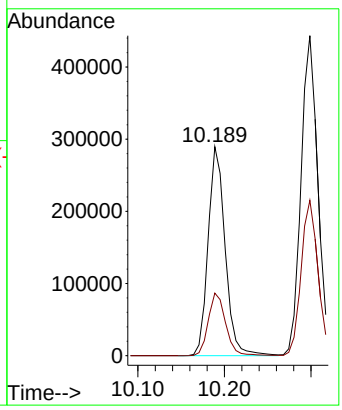


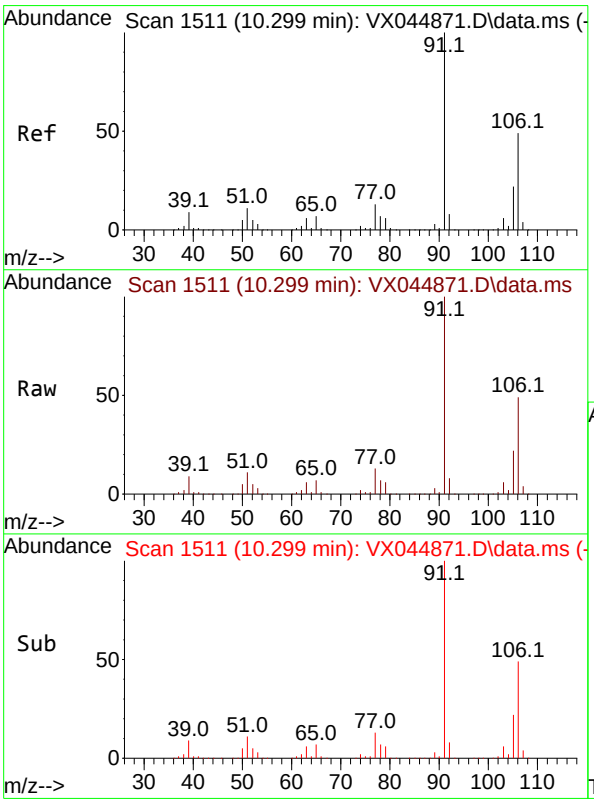
#67
Ethyl Benzene
Concen: 51.061 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 396269

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

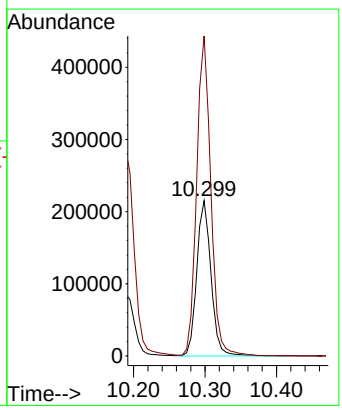


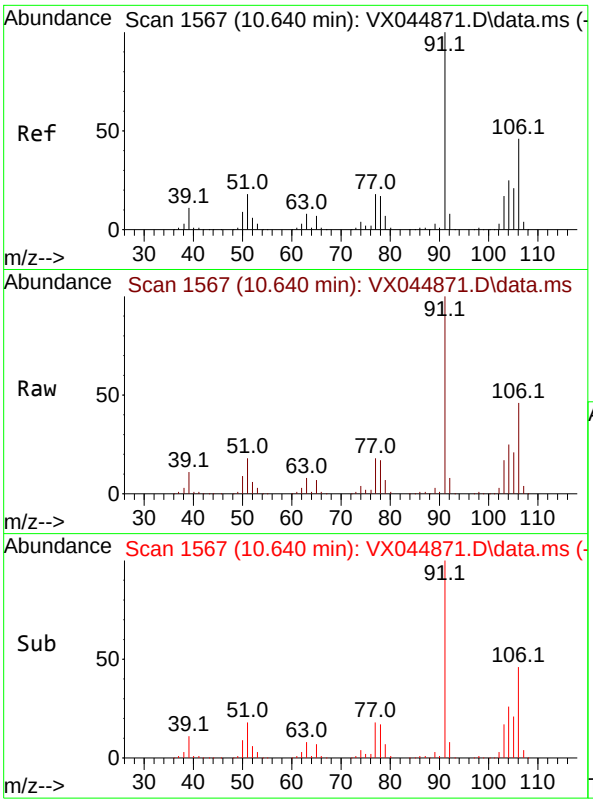


#68
m/p-Xylenes
Concen: 103.573 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:106 Resp: 296507

Ion	Ratio	Lower	Upper
106	100		
91	205.4	164.3	246.5



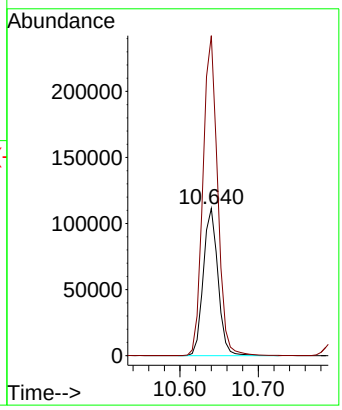


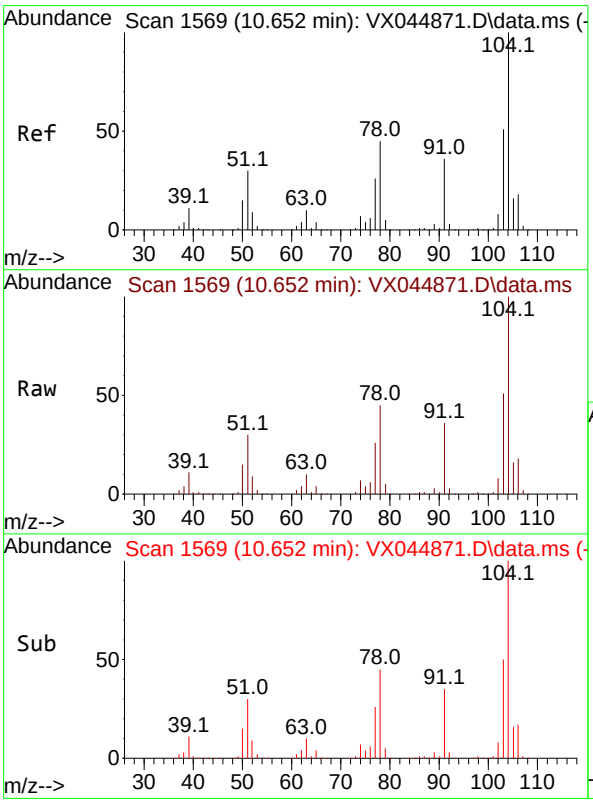
#69
o-Xylene
Concen: 50.409 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 144802

Ion	Ratio	Lower	Upper
106	100		
91	217.0	108.5	325.5

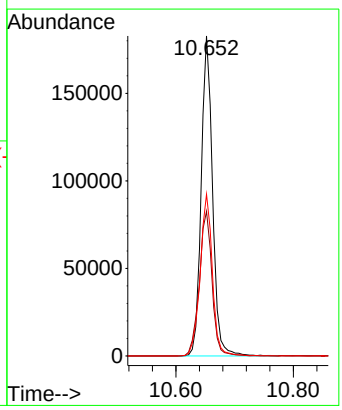


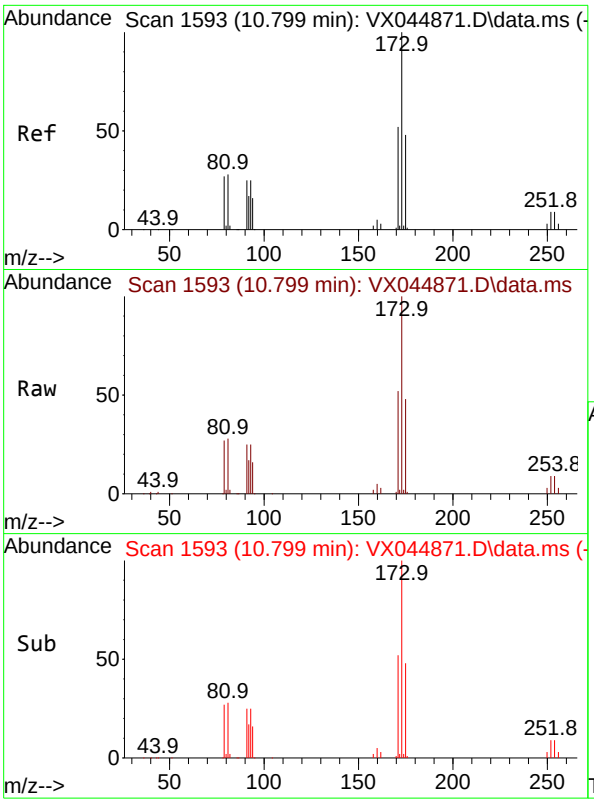


#70
Styrene
Concen: 53.051 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:104 Resp: 245518

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.5	60.7
103	54.5	43.6	65.4



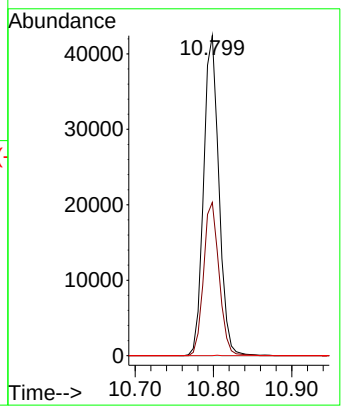


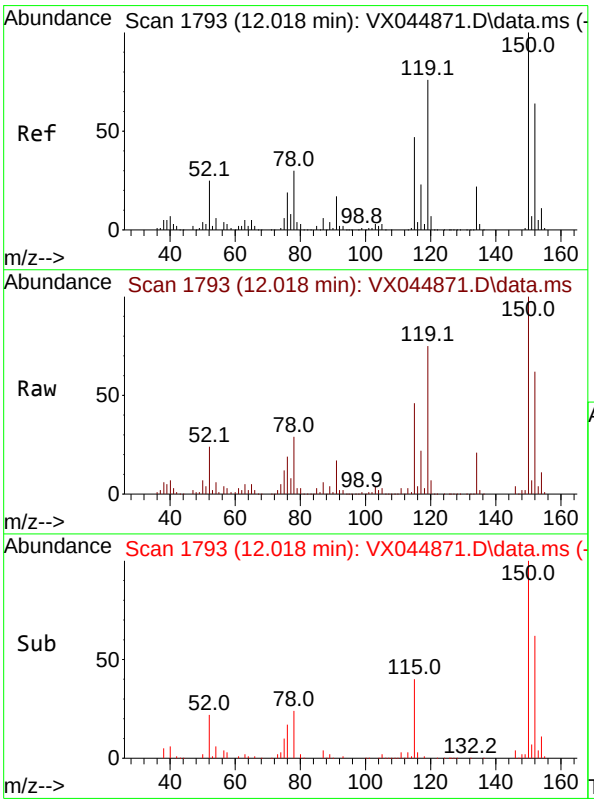
#71
Bromoform
Concen: 54.352 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 57417

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	72.8
254	0.0	0.0	0.0#

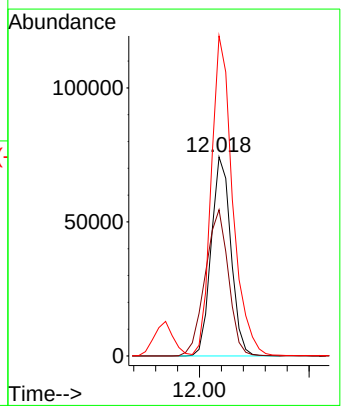


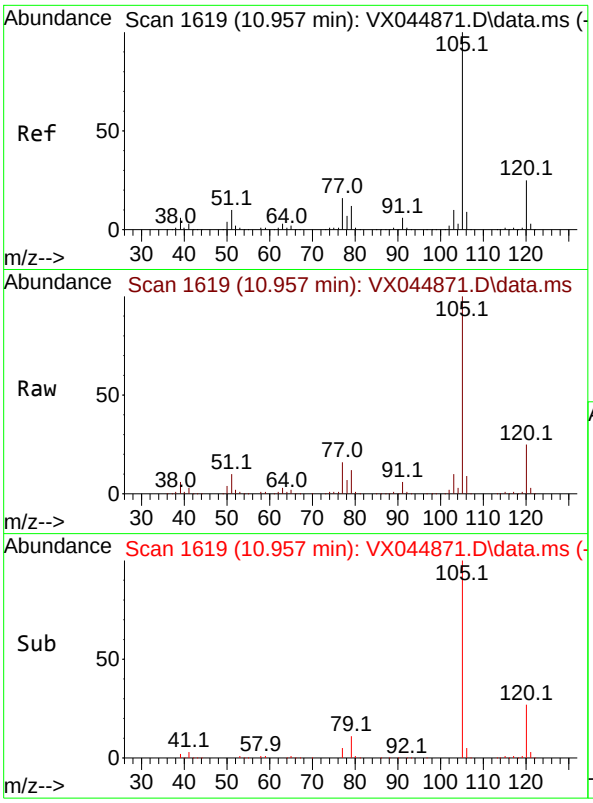


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:152 Resp: 92648

Ion	Ratio	Lower	Upper
152	100		
115	86.7	43.4	130.1
150	175.2	0.0	350.4



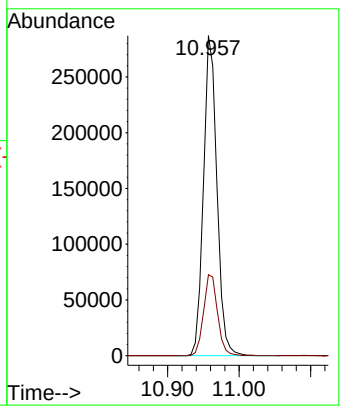


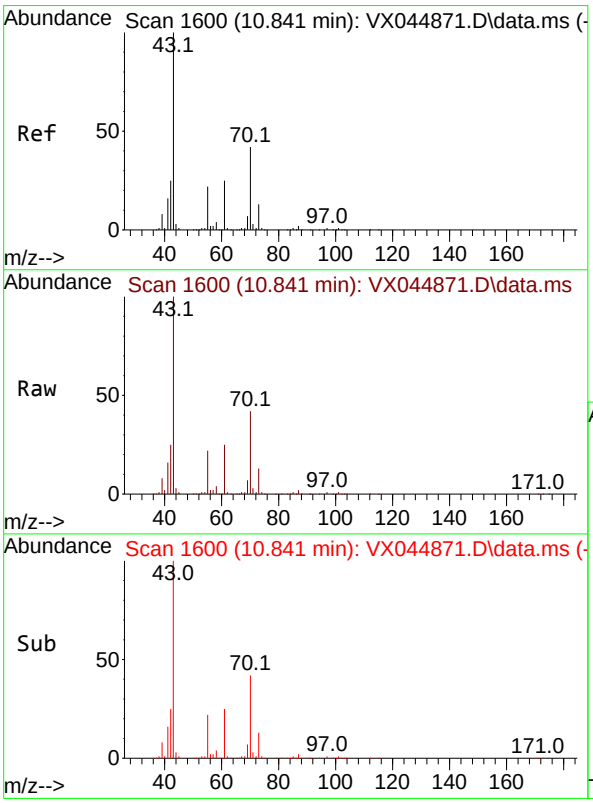
#73
Isopropylbenzene
Concen: 50.239 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 374776

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

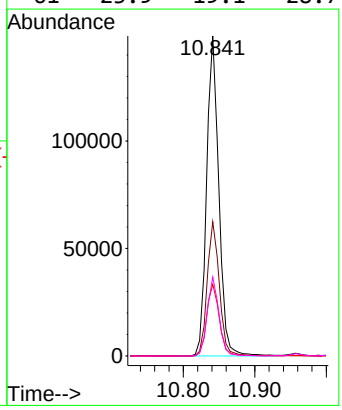


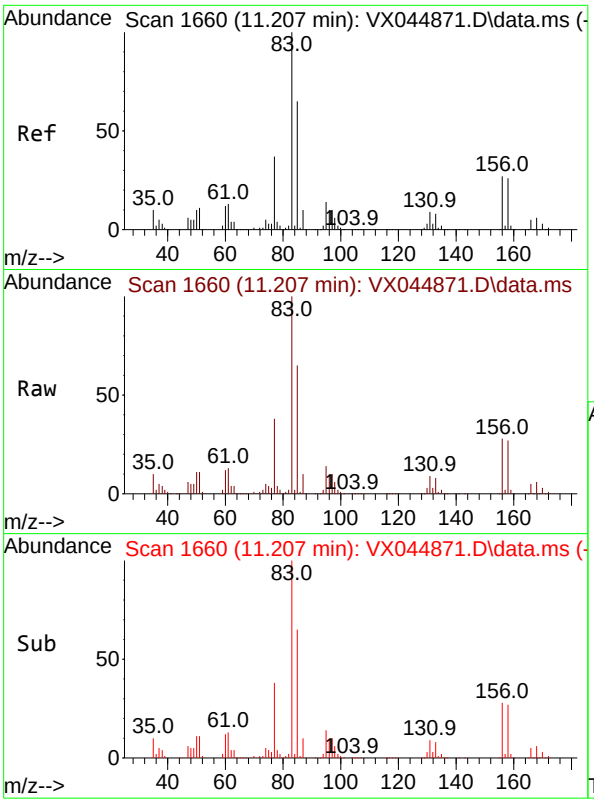


#74
N-amyl acetate
Concen: 52.189 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 43 Resp: 176174

Ion	Ratio	Lower	Upper
43	100		
70	42.1	33.7	50.5
55	23.2	18.6	27.8
61	23.9	19.1	28.7



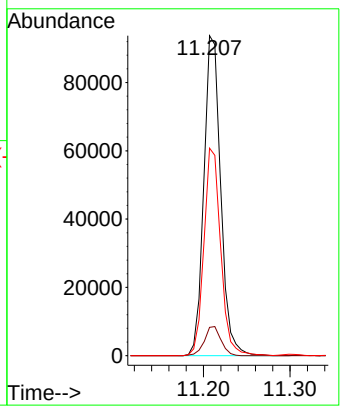


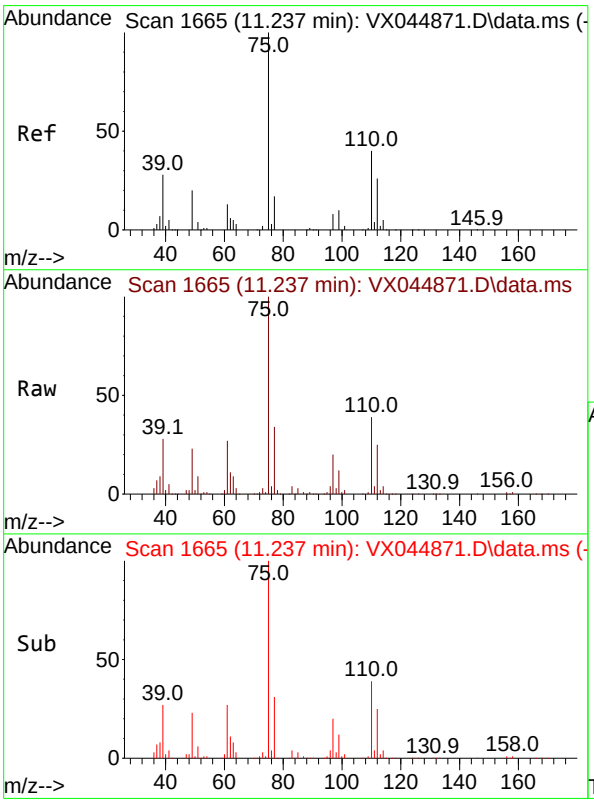
#75
1,1,2,2-Tetrachloroethane
Concen: 49.364 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 126542

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.5
85	64.5	32.3	96.8

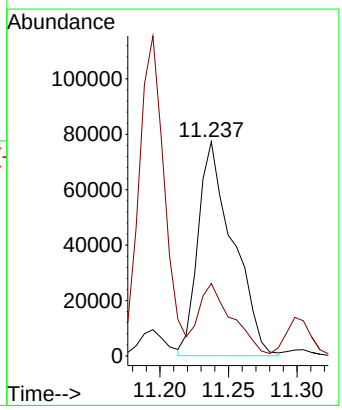


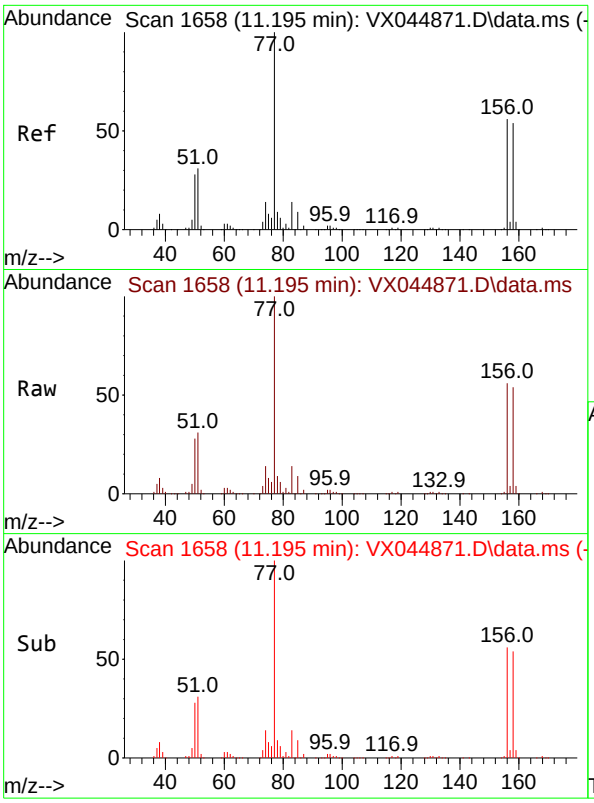


#76
1,2,3-Trichloropropane
Concen: 66.637 ug/l
RT: 11.237 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 136881

Ion	Ratio	Lower	Upper
75	100		
77	32.8	21.9	65.7



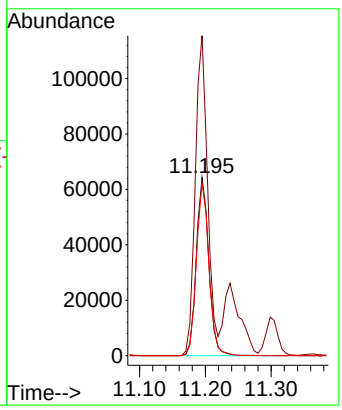


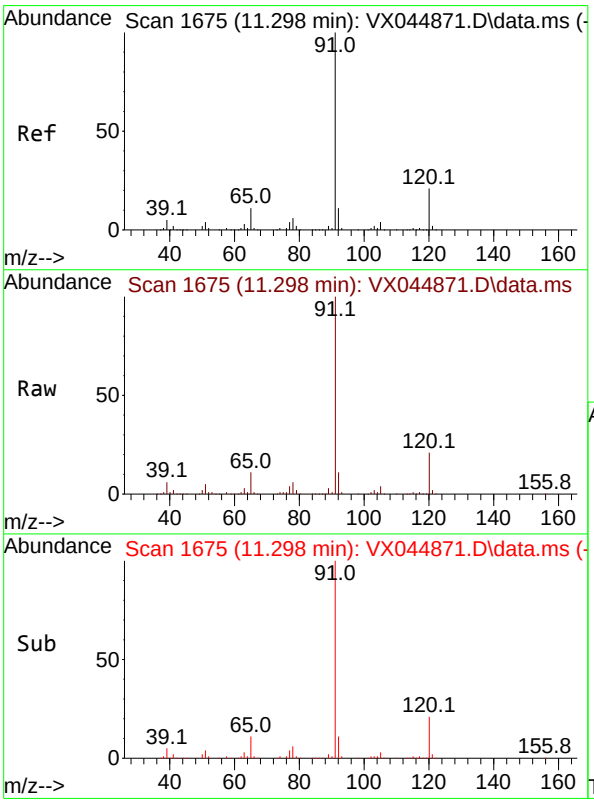
#77
Bromobenzene
Concen: 49.931 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 84448

Ion	Ratio	Lower	Upper
156	100		
77	176.9	88.4	265.3
158	96.8	48.4	145.2

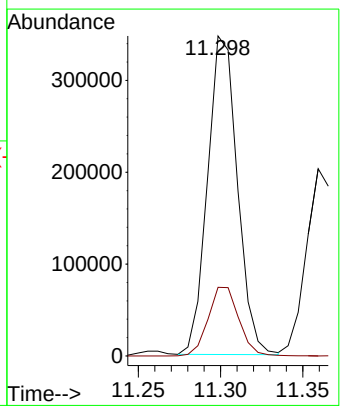


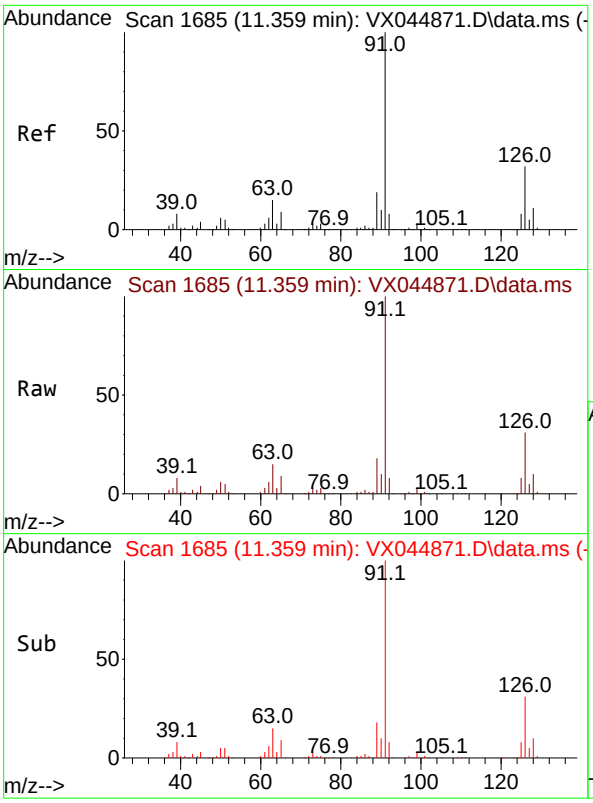


#78
n-propylbenzene
Concen: 50.818 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 437572

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



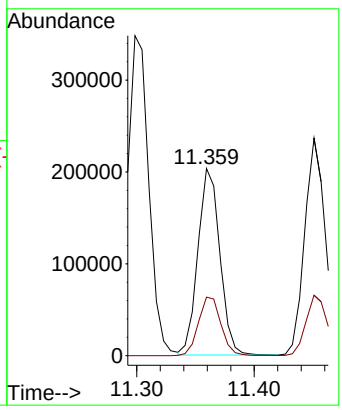


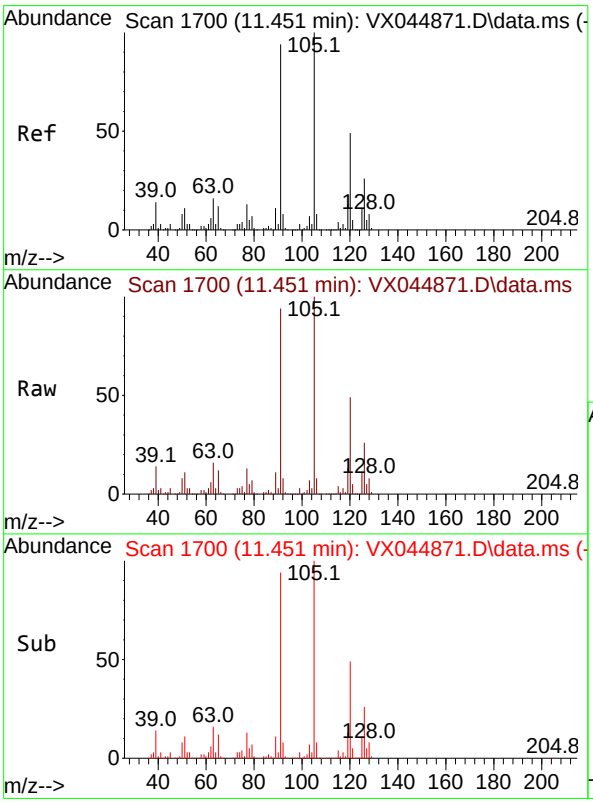
#79
2-Chlorotoluene
Concen: 49.749 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 263269

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.2	48.6

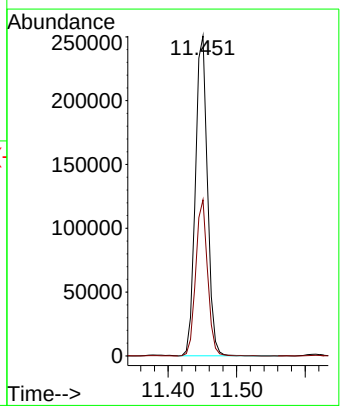


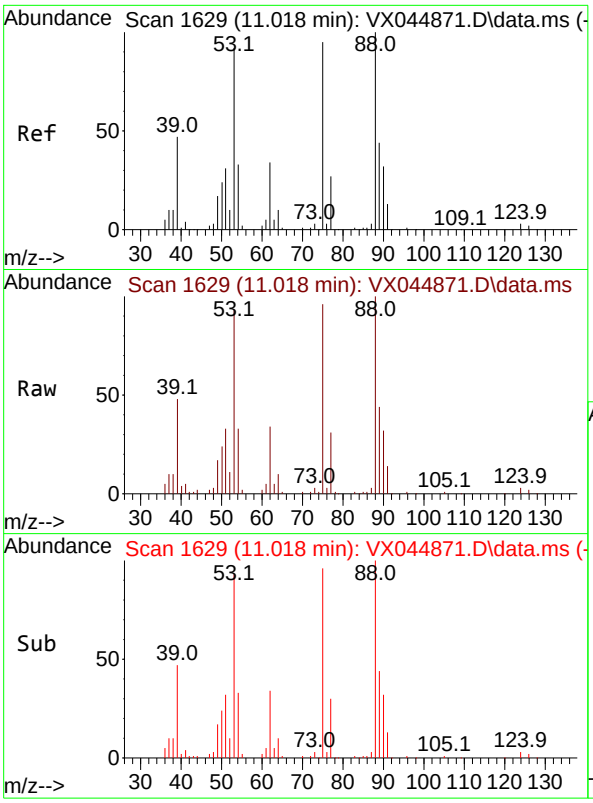


#80
1,3,5-Trimethylbenzene
Concen: 50.789 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 307465

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0



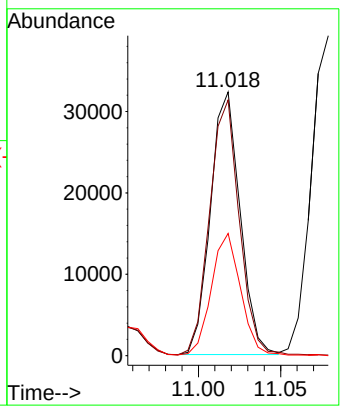


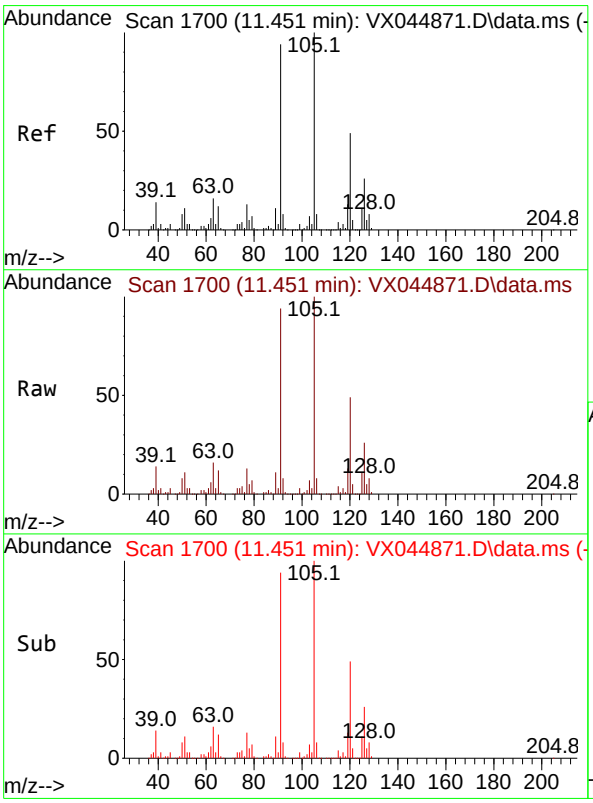
#81
trans-1,4-Dichloro-2-butene
Concen: 50.701 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 40487

Ion	Ratio	Lower	Upper
75	100		
53	97.5	78.0	117.0
89	45.7	36.6	54.8

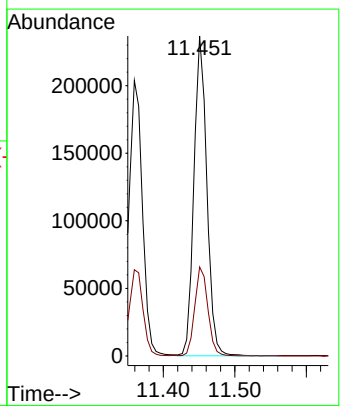


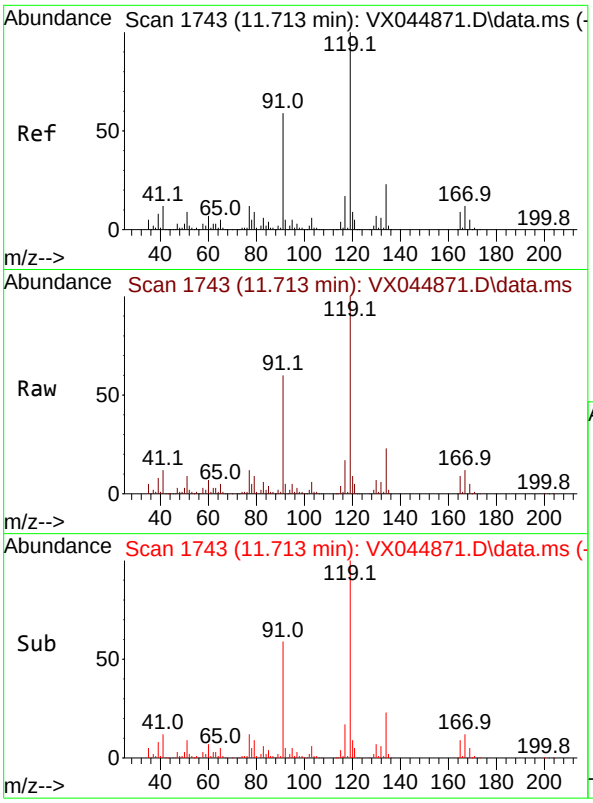


#82
4-Chlorotoluene
Concen: 50.531 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 91 Resp: 295844

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6



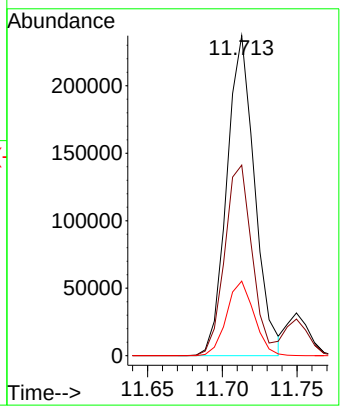


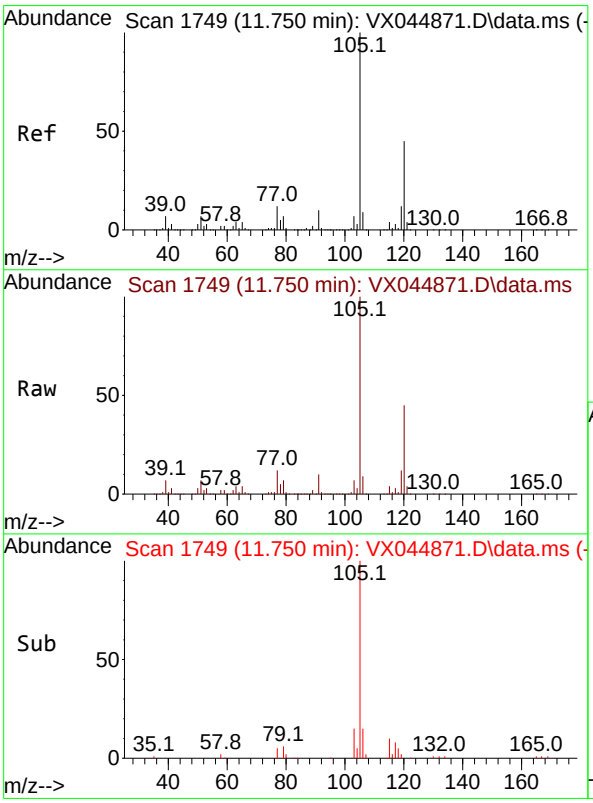
#83
tert-Butylbenzene
Concen: 50.102 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 306830

Ion	Ratio	Lower	Upper
119	100		
91	58.3	29.1	87.4
134	23.0	11.5	34.5

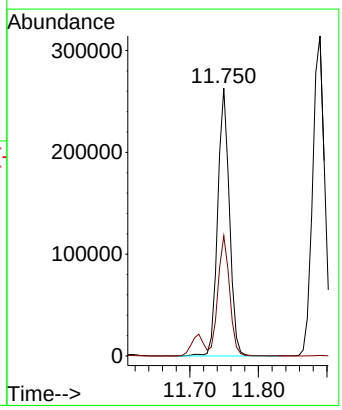


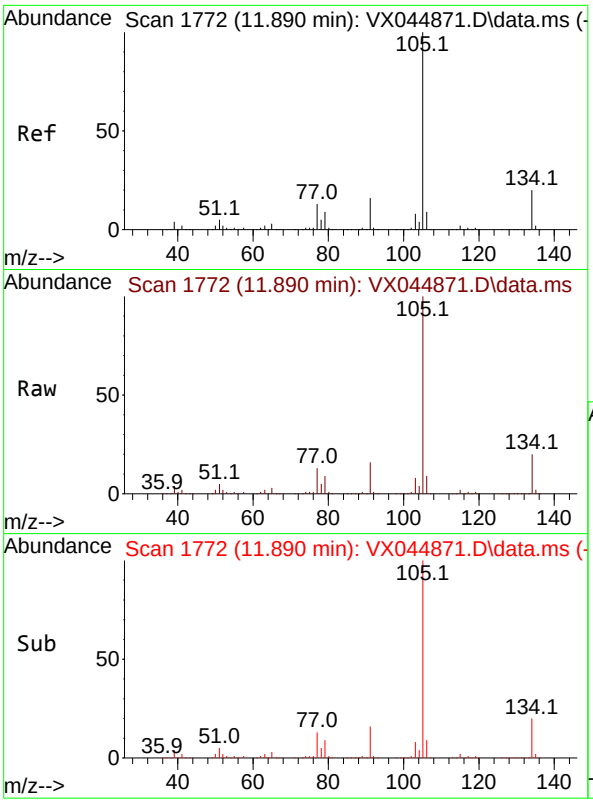


#84
1,2,4-Trimethylbenzene
Concen: 52.085 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:105 Resp: 311205

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.4	67.0



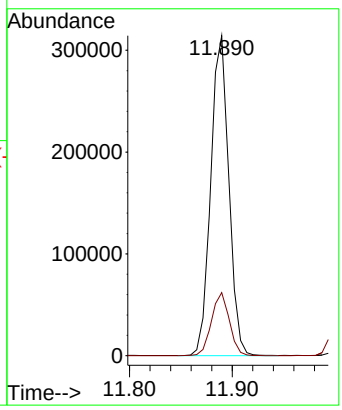


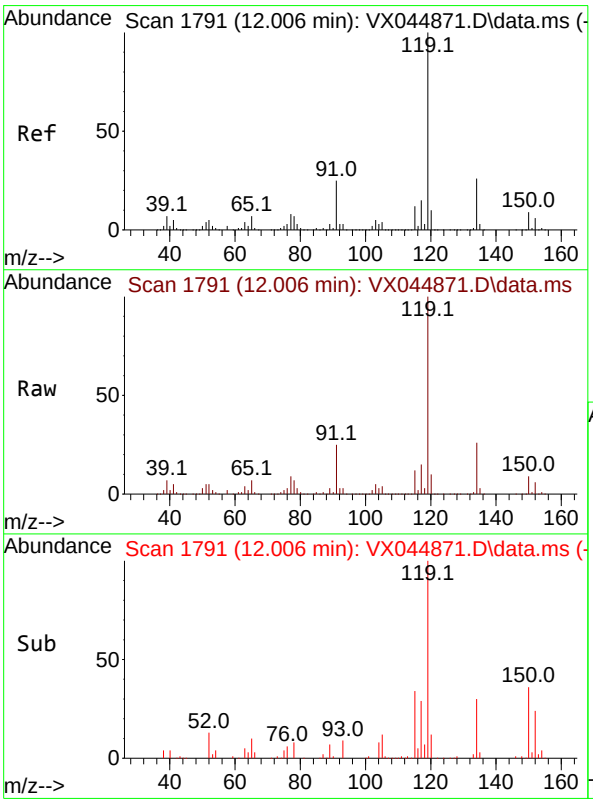
#85
sec-Butylbenzene
Concen: 50.657 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 384155

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3

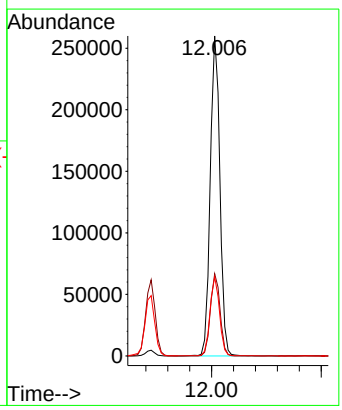


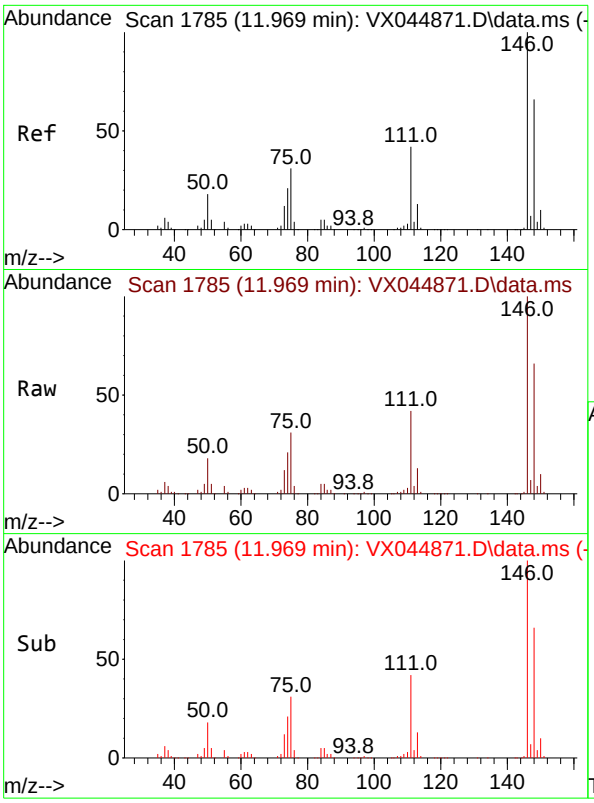


#86
p-Isopropyltoluene
Concen: 51.689 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:119 Resp: 315226

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	38.9
91	24.2	12.1	36.3



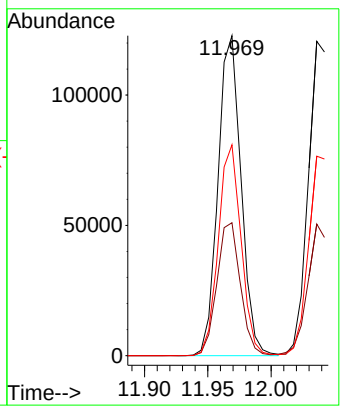


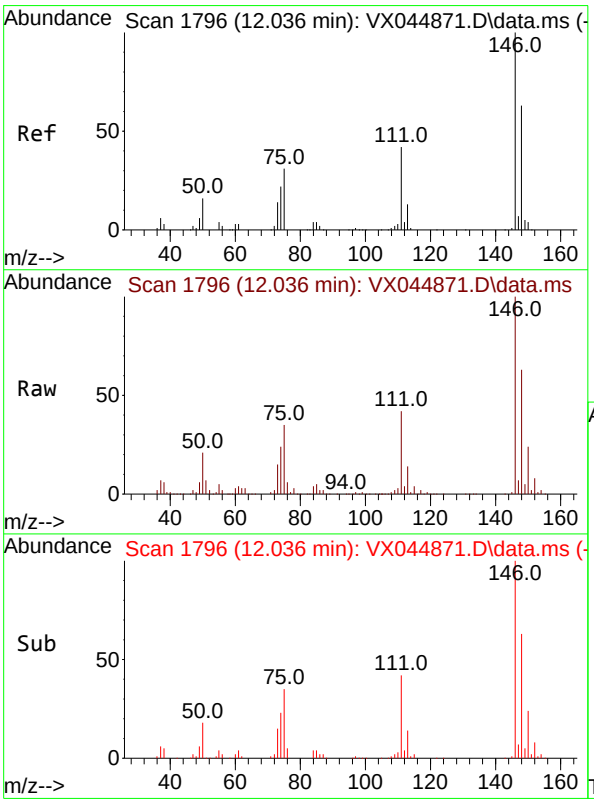
#87
1,3-Dichlorobenzene
Concen: 50.021 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 155575

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.2	63.6
148	65.0	32.5	97.5

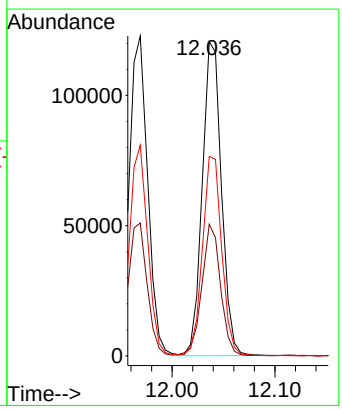


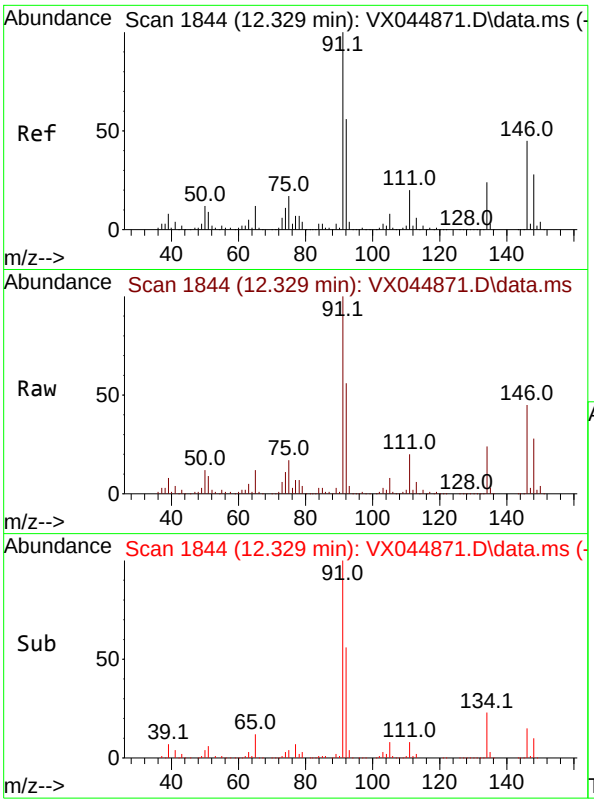


#88
1,4-Dichlorobenzene
Concen: 49.657 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:146 Resp: 156162

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.4	61.3
148	64.0	32.0	96.0



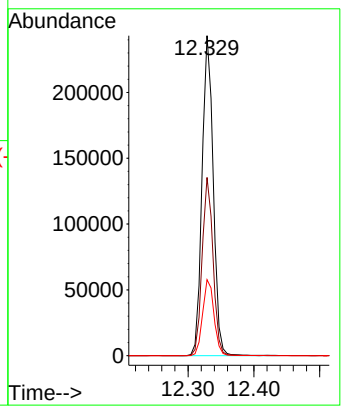


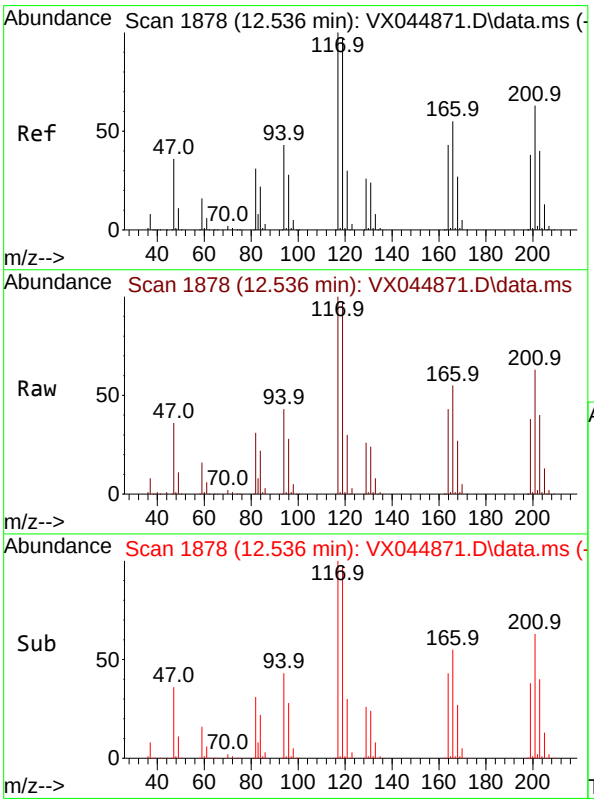
#89
n-Butylbenzene
Concen: 53.315 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 287649

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.2	81.6
134	24.2	12.1	36.3

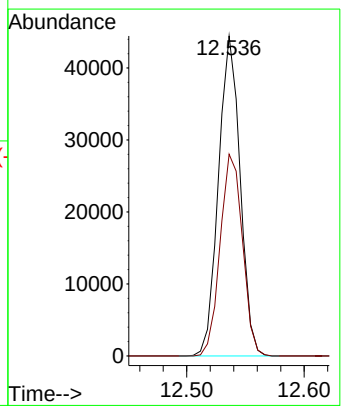


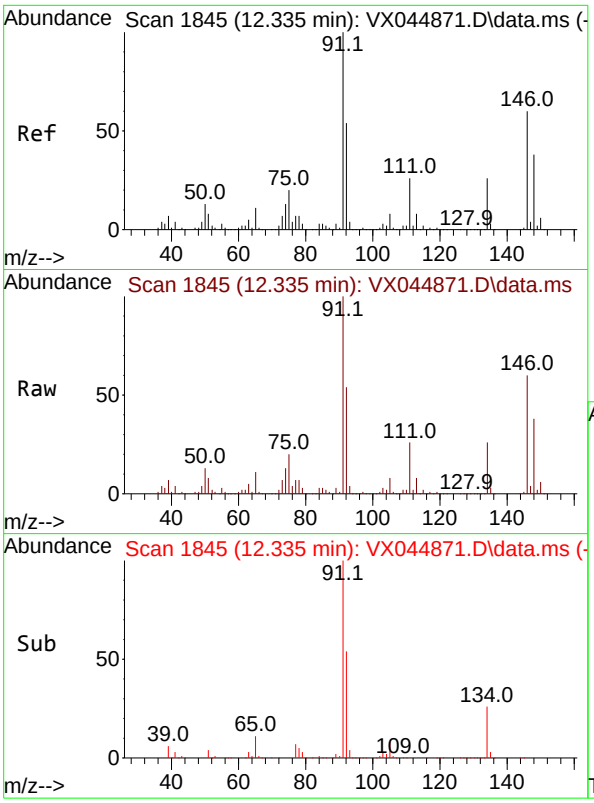


#90
Hexachloroethane
Concen: 49.874 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:117 Resp: 56951

Ion	Ratio	Lower	Upper
117	100		
201	65.0	32.5	97.5



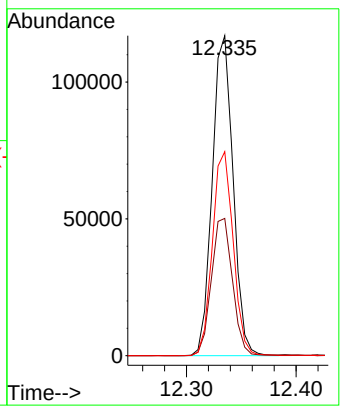


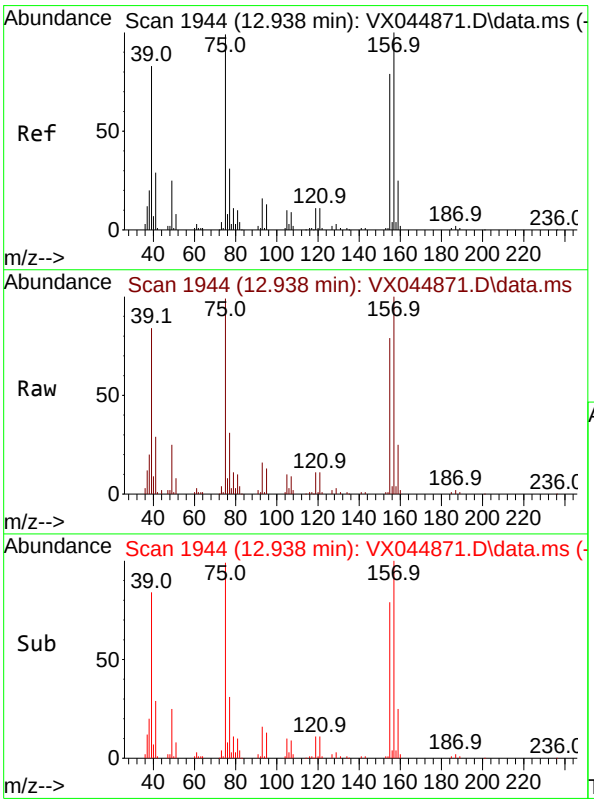
#91
1,2-Dichlorobenzene
Concen: 50.500 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 154364

Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.8	65.4
148	63.9	31.9	95.9

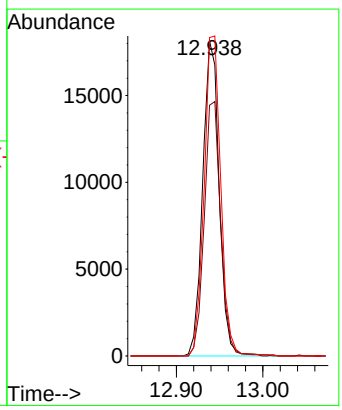


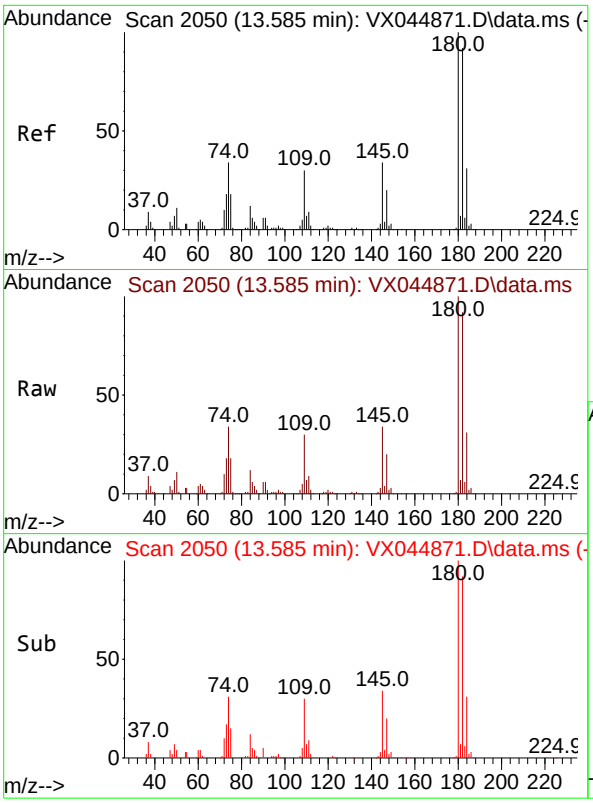


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.135 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion: 75 Resp: 23924

Ion	Ratio	Lower	Upper
75	100		
155	80.9	40.5	121.4
157	102.9	51.4	154.3



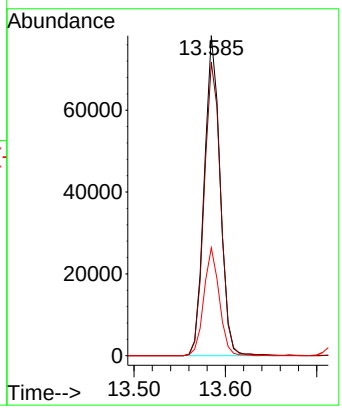


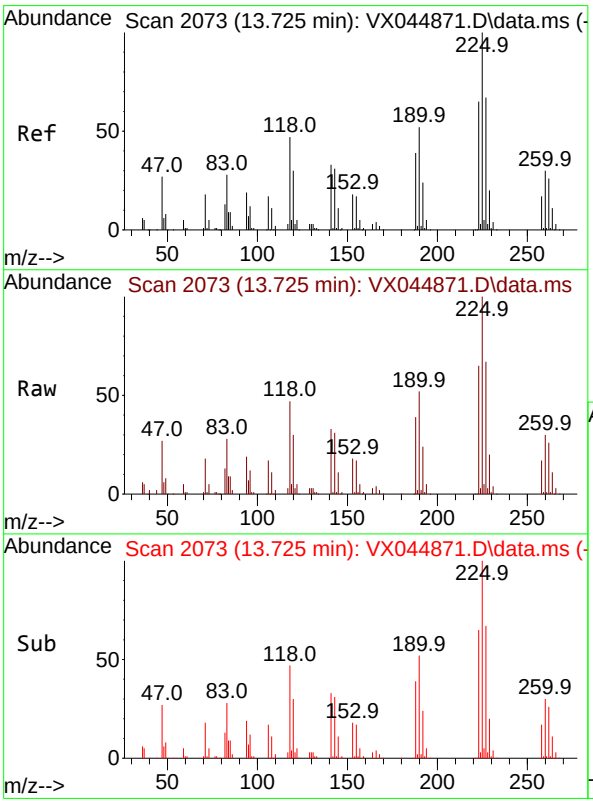
#93
1,2,4-Trichlorobenzene
Concen: 50.747 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 93863

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	32.7	16.4	49.1

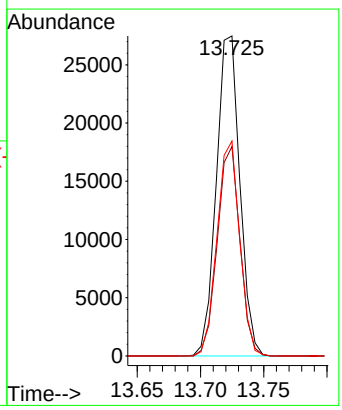


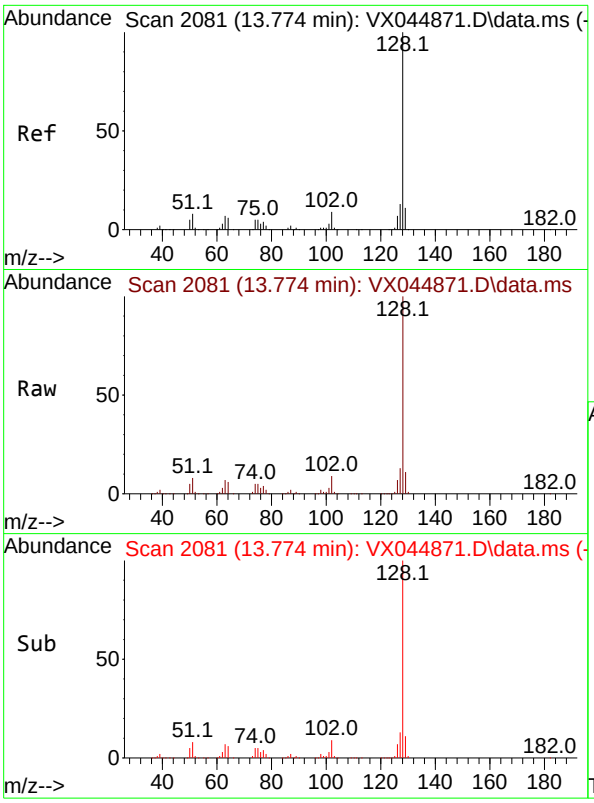


#94
Hexachlorobutadiene
Concen: 48.321 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:225 Resp: 35481

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.4	94.2
227	64.5	32.3	96.8



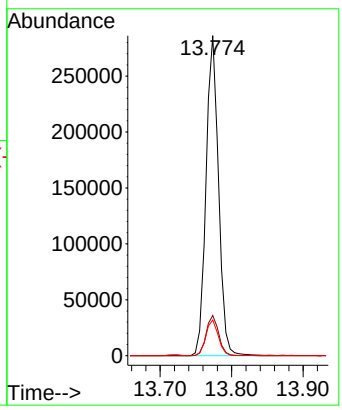


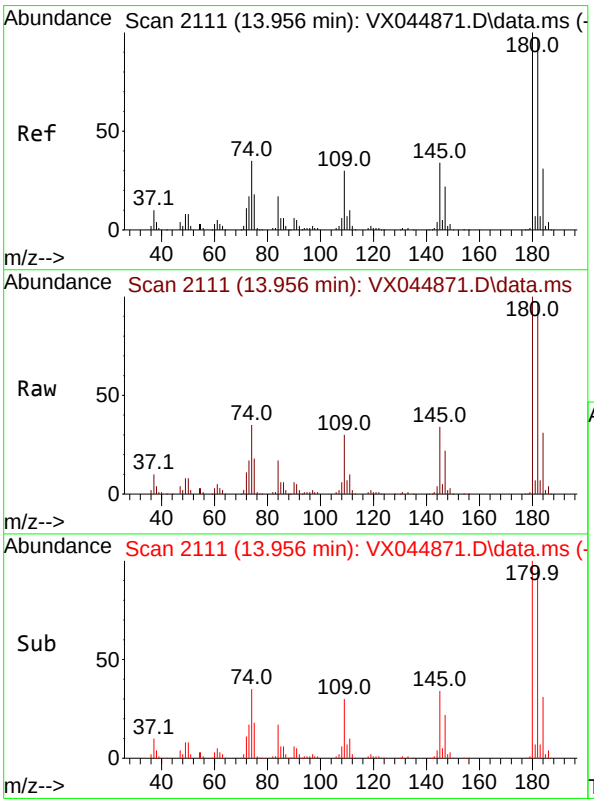
#95
Naphthalene
Concen: 51.995 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 347645

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.1	8.9	13.3

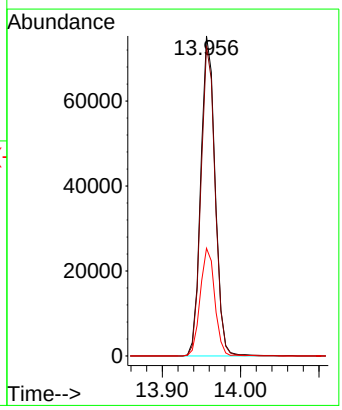




#96
1,2,3-Trichlorobenzene
Concen: 51.245 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044871.D
Acq: 10 Feb 2025 11:34

Tgt Ion:180 Resp: 95510

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.6
145	34.2	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	129508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	236372	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	203881	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	91371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	183093	96.580	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 193.160%#			
35) Dibromofluoromethane	5.373	113	151228	98.404	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 196.800%#			
50) Toluene-d8	8.647	98	570976	98.253	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 196.500%#			
62) 4-Bromofluorobenzene	11.079	95	196066	100.079	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.160%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	182788	100.632	ug/l	99
3) Chloromethane	1.301	50	208416	94.275	ug/l	99
4) Vinyl Chloride	1.374	62	209017	97.593	ug/l	100
5) Bromomethane	1.593	94	62797	97.984	ug/l	97
6) Chloroethane	1.660	64	64581	100.253	ug/l	98
7) Trichlorofluoromethane	1.868	101	262354	96.865	ug/l	99
8) Diethyl Ether	2.130	74	95914	97.647	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	163414	99.860	ug/l	100
10) Methyl Iodide	2.441	142	212118	100.016	ug/l	99
11) Tert butyl alcohol	3.002	59	165263	469.903	ug/l #	73
12) 1,1-Dichloroethene	2.307	96	163593	98.004	ug/l	98
13) Acrolein	2.233	56	180570	497.628	ug/l	99
14) Allyl chloride	2.654	41	297526	98.624	ug/l	98
15) Acrylonitrile	3.063	53	466855	497.173	ug/l	99
16) Acetone	2.386	43	369720	485.125	ug/l	99
17) Carbon Disulfide	2.502	76	463308	101.216	ug/l	99
18) Methyl Acetate	2.703	43	238689	99.249	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	521003	98.098	ug/l	100
20) Methylene Chloride	2.782	84	180120	96.490	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	164067	99.864	ug/l	95
22) Diisopropyl ether	3.758	45	565927	99.157	ug/l	95
23) Vinyl Acetate	3.715	43	2387200	513.051	ug/l	100
24) 1,1-Dichloroethane	3.599	63	313164	98.064	ug/l	99
25) 2-Butanone	4.550	43	617283	498.801	ug/l	98
26) 2,2-Dichloropropane	4.465	77	248324	98.053	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	196381	99.513	ug/l	99
28) Bromochloromethane	4.885	49	148137	96.524	ug/l	100
29) Tetrahydrofuran	4.995	42	405208	493.104	ug/l	100
30) Chloroform	5.087	83	298690	96.445	ug/l	99
31) Cyclohexane	5.458	56	286830	97.426	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	254941	97.050	ug/l	100
36) 1,1-Dichloropropene	5.684	75	216005	97.422	ug/l	100
37) Ethyl Acetate	4.709	43	244164	99.005	ug/l	99
38) Carbon Tetrachloride	5.666	117	210381	96.828	ug/l	97
39) Methylcyclohexane	7.373	83	299703	104.554	ug/l	98
40) Benzene	6.025	78	675556	97.576	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	135629	102.745	ug/l		99
42) 1,2-Dichloroethane	6.080	62	218174	98.875	ug/l		100
43) Isopropyl Acetate	6.336	43	405489	101.818	ug/l		100
44) Trichloroethene	7.117	130	156832	99.103	ug/l		96
45) 1,2-Dichloropropane	7.422	63	170337	98.893	ug/l		97
46) Dibromomethane	7.574	93	119149	99.747	ug/l		100
47) Bromodichloromethane	7.818	83	236506	102.254	ug/l		97
48) Methyl methacrylate	7.690	41	195892	104.321	ug/l		100
49) 1,4-Dioxane	7.659	88	77816	1931.508	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	1196887	494.353	ug/l		100
52) Toluene	8.714	92	409318	99.270	ug/l		99
53) t-1,3-Dichloropropene	8.970	75	249725	106.694	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	277371	106.287	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	156629	98.817	ug/l		100
56) Ethyl methacrylate	9.116	69	268693	104.958	ug/l		99
57) 1,3-Dichloropropane	9.305	76	273845	98.742	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	664198	528.405	ug/l		100
59) 2-Hexanone	9.427	43	871904	499.819	ug/l		99
60) Dibromochloromethane	9.519	129	173848	102.557	ug/l		100
61) 1,2-Dibromoethane	9.604	107	162982	101.451	ug/l		98
64) Tetrachloroethene	9.269	164	125294	97.447	ug/l		100
65) Chlorobenzene	10.073	112	436565	99.694	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	144793	102.728	ug/l		100
67) Ethyl Benzene	10.189	91	784184	101.477	ug/l		100
68) m/p-Xylenes	10.299	106	575559	201.907	ug/l		99
69) o-Xylene	10.640	106	281830	98.530	ug/l		100
70) Styrene	10.653	104	473403	102.728	ug/l		99
71) Bromoform	10.799	173	112371	106.827	ug/l	#	99
73) Isopropylbenzene	10.957	105	719923	97.854	ug/l		99
74) N-amyl acetate	10.842	43	345193	103.687	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	238529	94.351	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	265118	130.869	ug/l		82
77) Bromobenzene	11.195	156	163845	98.230	ug/l		100
78) n-propylbenzene	11.299	91	858793	101.132	ug/l		100
79) 2-Chlorotoluene	11.360	91	497149	95.257	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	584885	97.966	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	83483	106.006	ug/l		98
82) 4-Chlorotoluene	11.451	91	569510	98.634	ug/l		100
83) tert-Butylbenzene	11.713	119	591396	97.917	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	588385	99.851	ug/l		99
85) sec-Butylbenzene	11.890	105	749534	100.219	ug/l		99
86) p-Isopropyltoluene	12.006	119	607577	101.019	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	303851	99.061	ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	303417	97.830	ug/l		99
89) n-Butylbenzene	12.329	91	583634	109.686	ug/l		100
90) Hexachloroethane	12.536	117	117533	104.365	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	293151	97.244	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	47745	103.477	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	193214	105.921	ug/l		99
94) Hexachlorobutadiene	13.725	225	74605	103.024	ug/l		99
95) Naphthalene	13.774	128	689104	104.505	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	190534	103.659	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

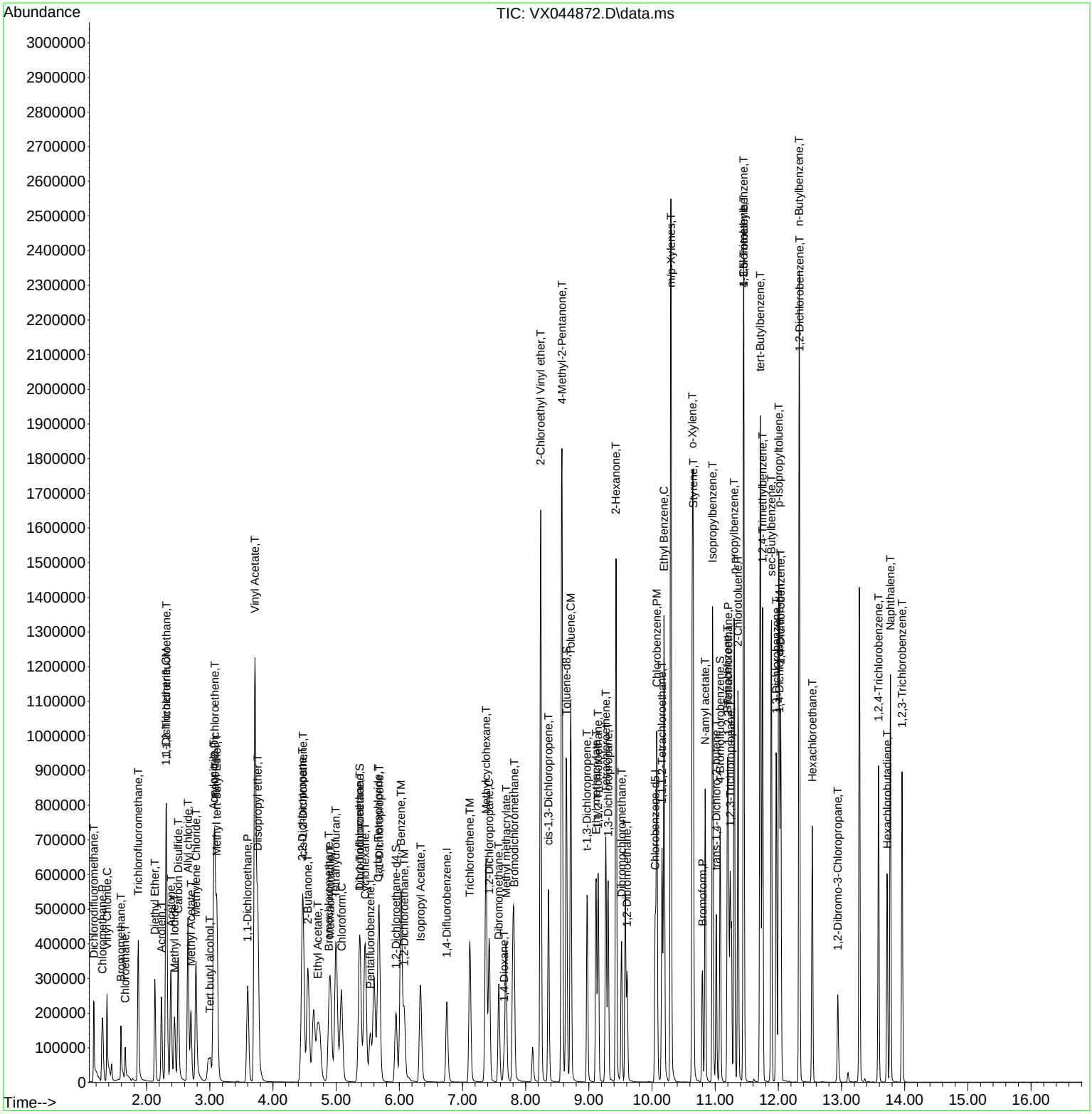
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

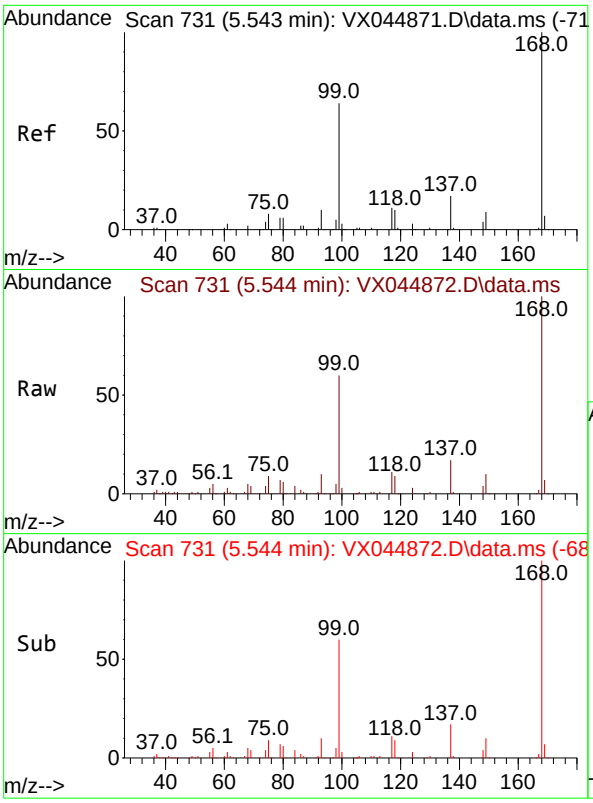
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044872.D
Acq On : 10 Feb 2025 12:05
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Feb 11 02:01:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



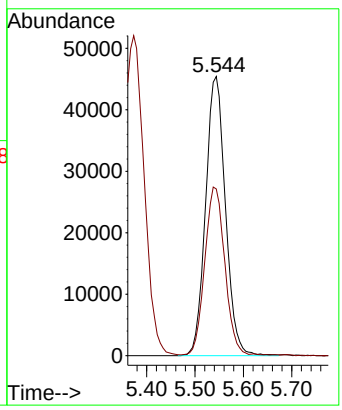


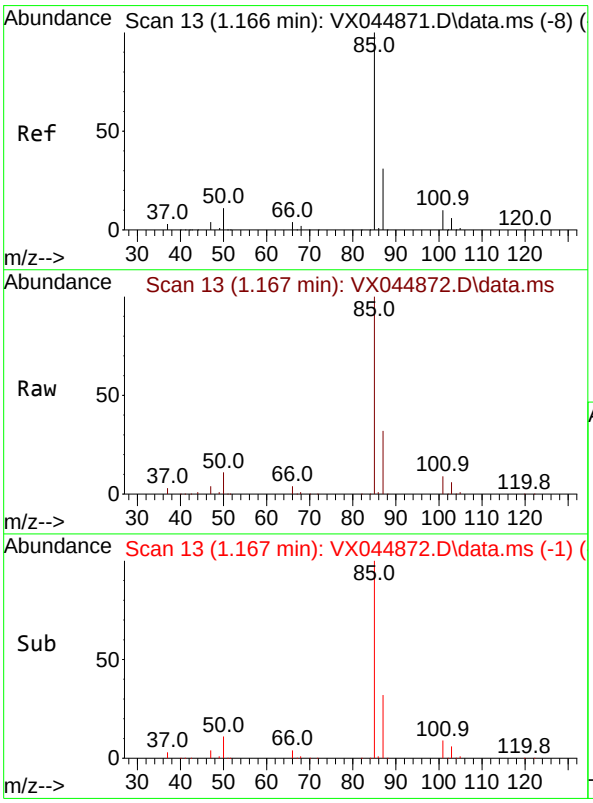
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 129508

Ion	Ratio	Lower	Upper
168	100		
99	59.4	51.2	76.8

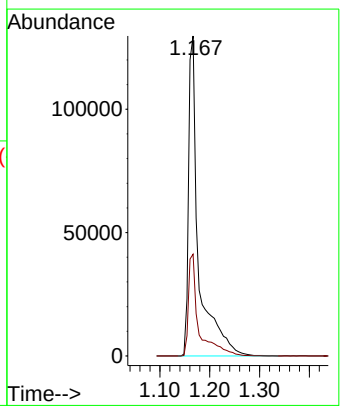


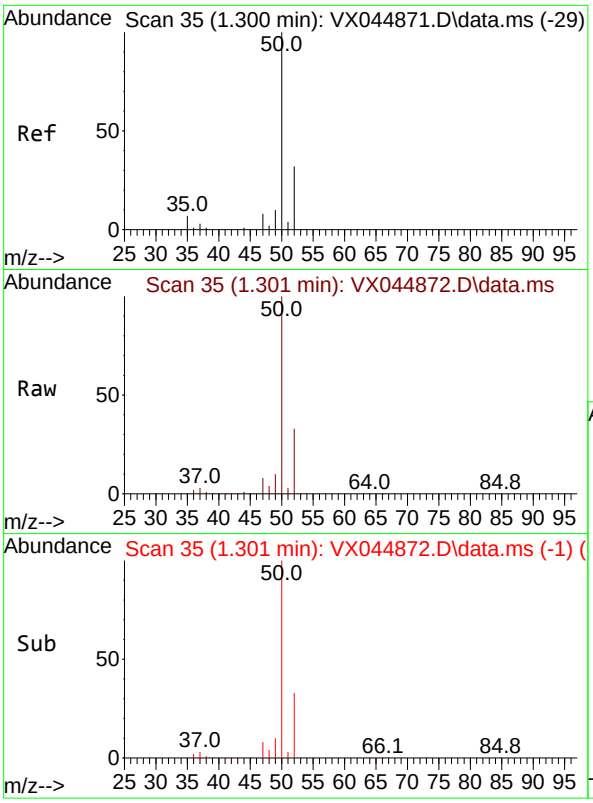


#2
Dichlorodifluoromethane
Concen: 100.632 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 85 Resp: 182788

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3



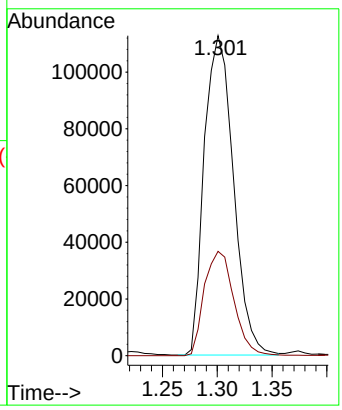


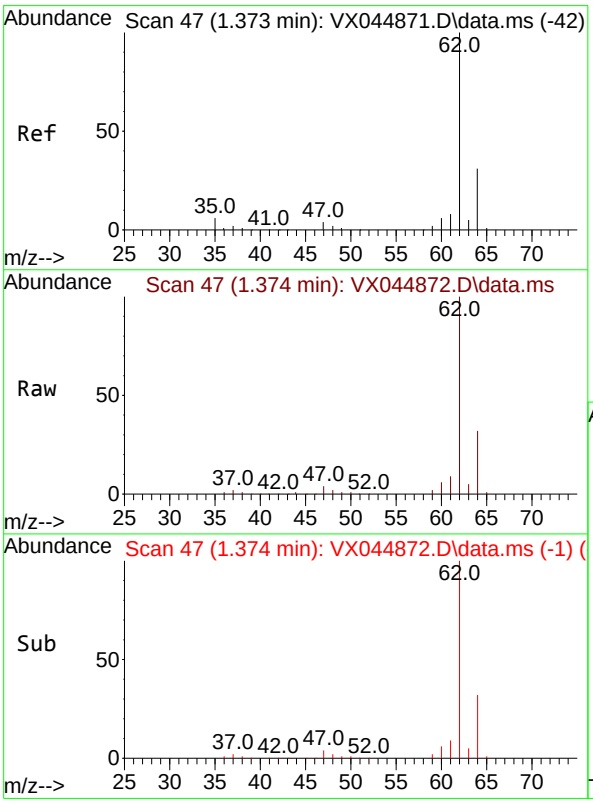
#3
Chloromethane
Concen: 94.275 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 208416

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.9	38.9

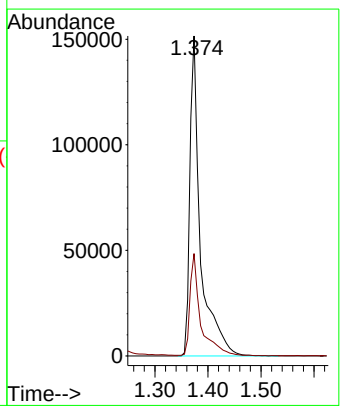


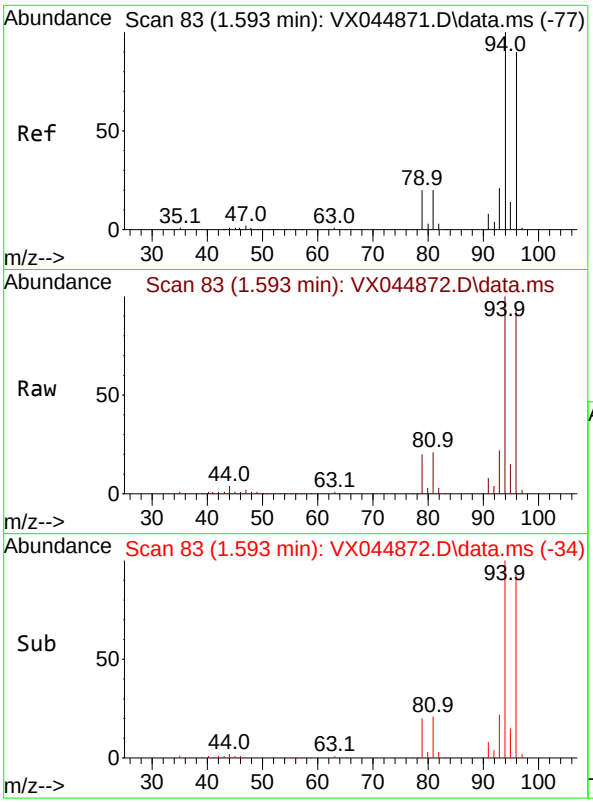


#4
Vinyl Chloride
Concen: 97.593 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 209017

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.4	38.0



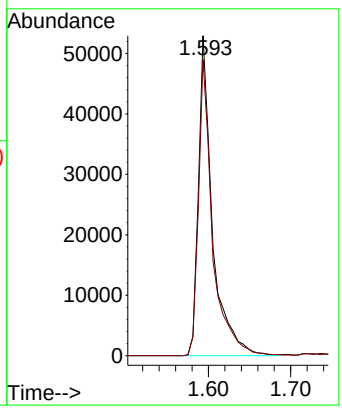


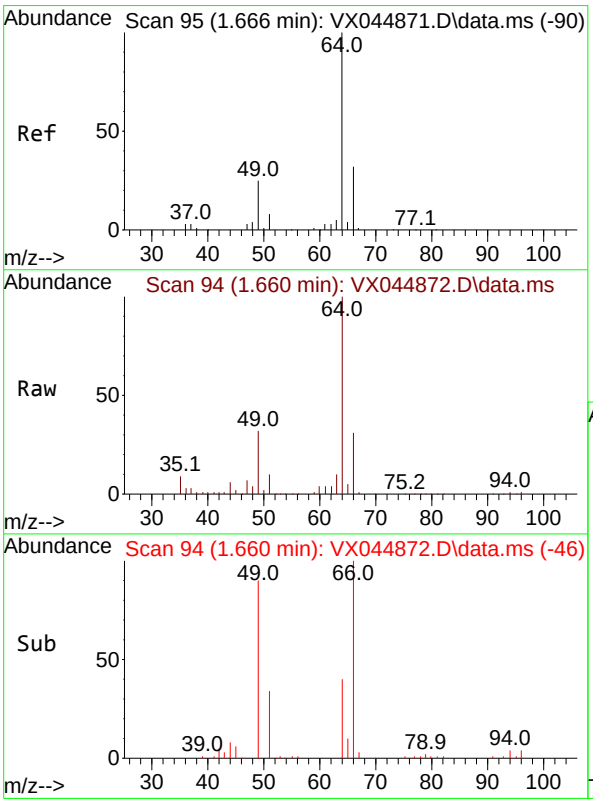
#5
Bromomethane
Concen: 97.984 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 62797

Ion	Ratio	Lower	Upper
94	100		
96	92.6	71.6	107.4

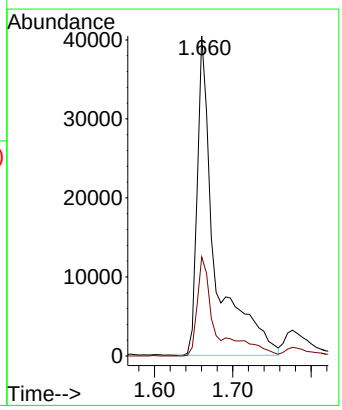


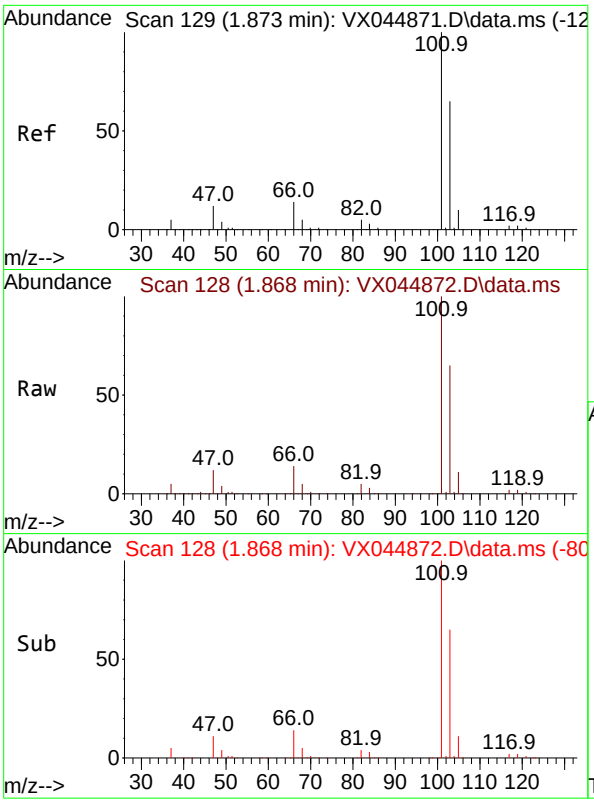


#6
Chloroethane
Concen: 100.253 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 64 Resp: 64581

Ion	Ratio	Lower	Upper
64	100		
66	31.0	25.9	38.9



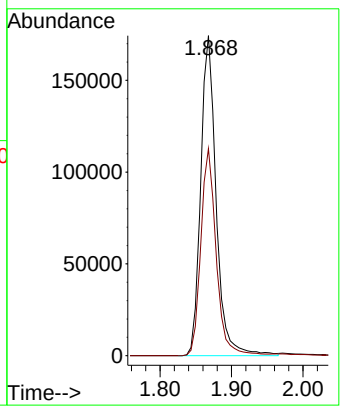


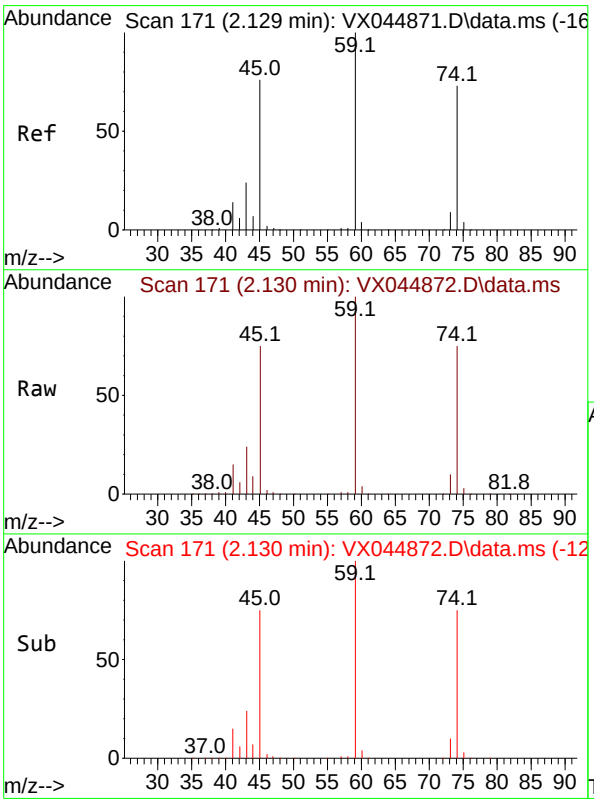
#7
Trichlorofluoromethane
Concen: 96.865 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 262354

Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.4	78.6

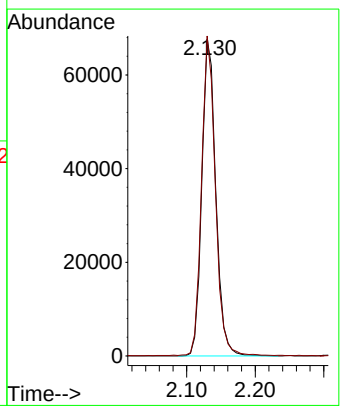


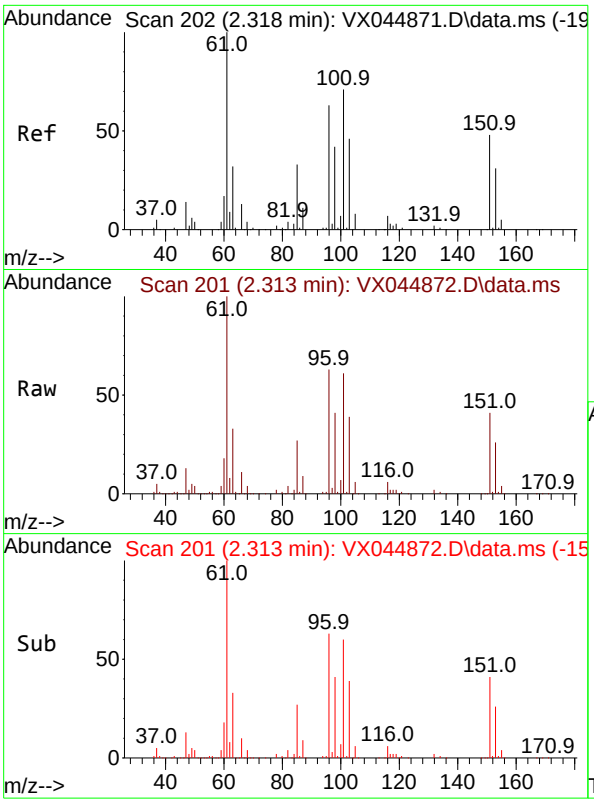


#8
Diethyl Ether
Concen: 97.647 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 74 Resp: 95914

Ion	Ratio	Lower	Upper
74	100		
45	99.5	51.1	153.4



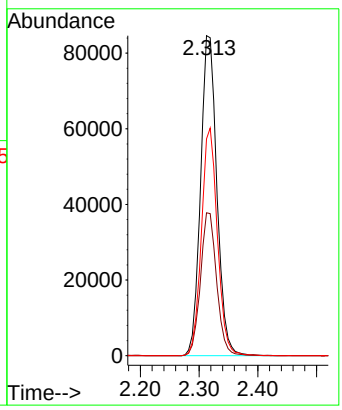


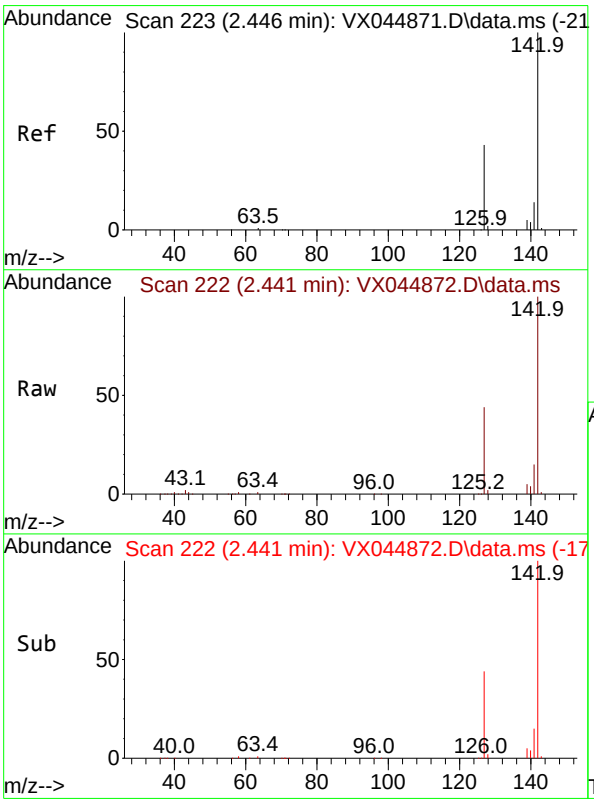
#9
1,1,2-Trichlorotrifluoroethane
Concen: 99.860 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 163414

Ion	Ratio	Lower	Upper
101	100		
85	44.3	35.7	53.5
151	69.8	56.0	84.0

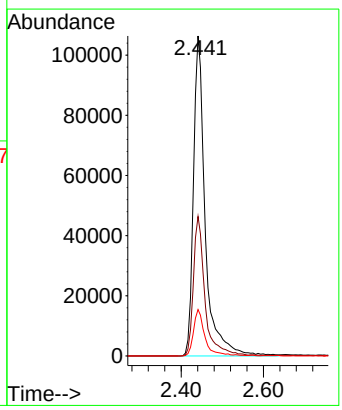


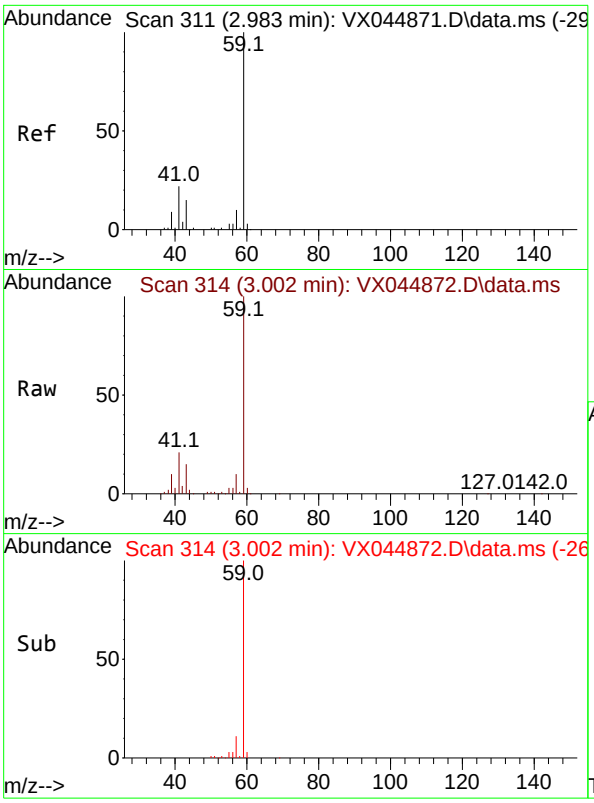


#10
Methyl Iodide
Concen: 100.016 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:142 Resp: 212118

Ion	Ratio	Lower	Upper
142	100		
127	42.5	34.3	51.5
141	14.1	11.4	17.2



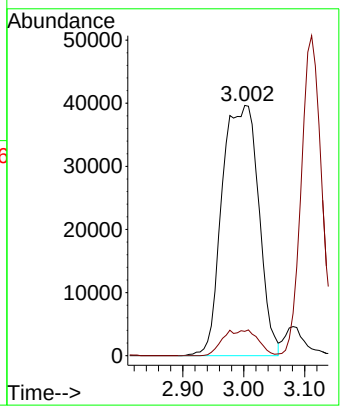


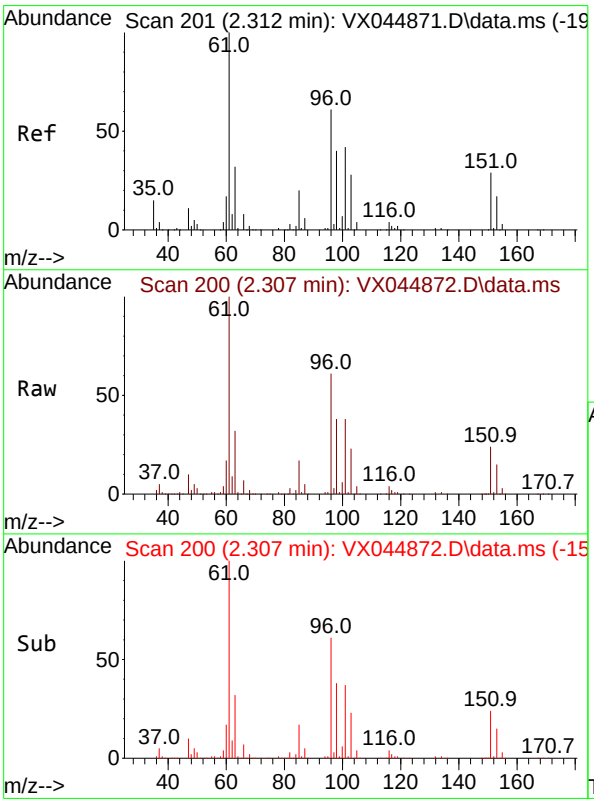
#11
Tert butyl alcohol
Concen: 469.903 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.019 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 165263

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#

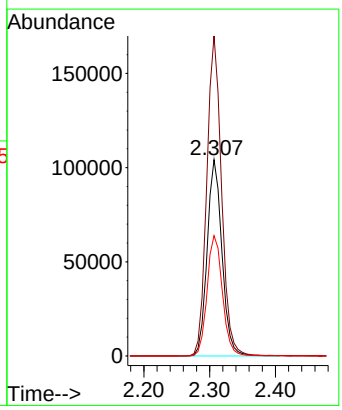


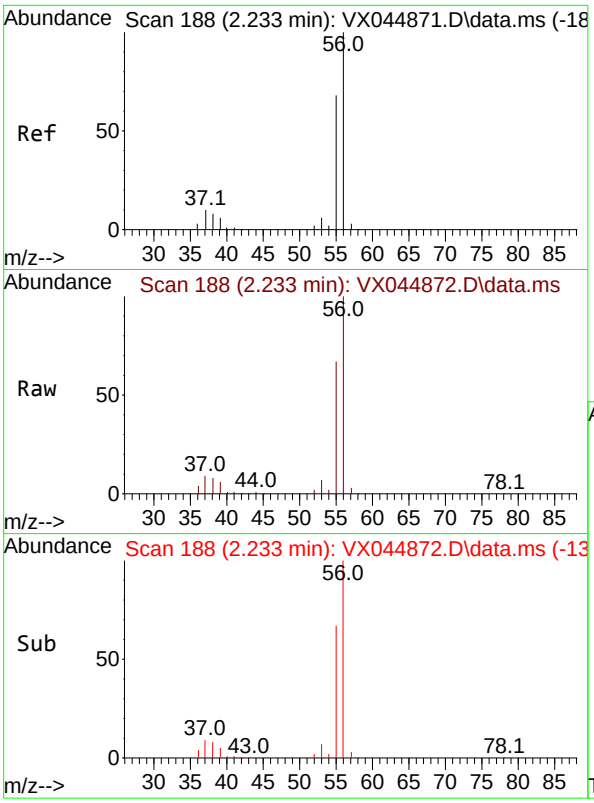


#12
1,1-Dichloroethene
Concen: 98.004 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 96 Resp: 163593

Ion	Ratio	Lower	Upper
96	100		
61	162.9	130.2	195.4
98	61.3	52.2	78.4



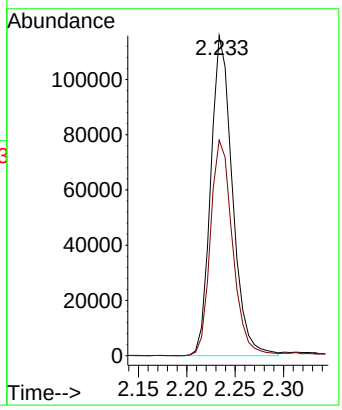


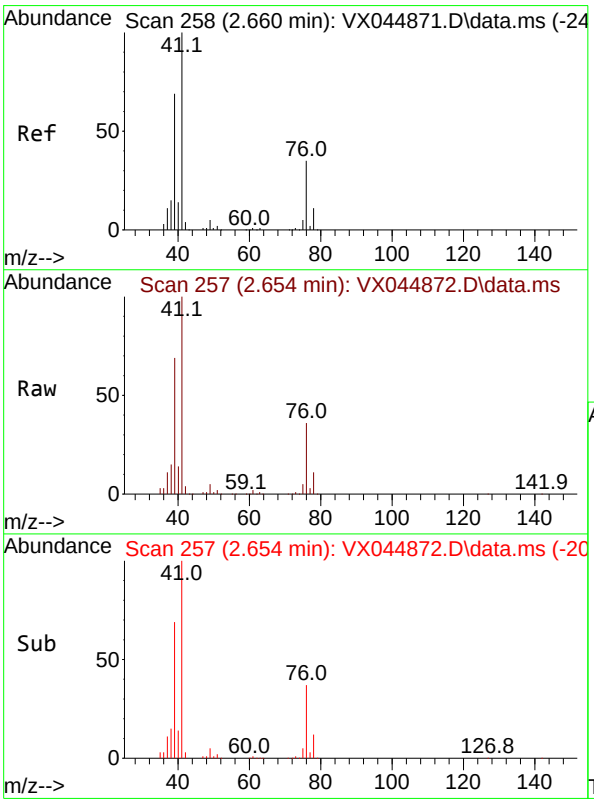
#13
Acrolein
Concen: 497.628 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 180570

Ion	Ratio	Lower	Upper
56	100		
55	68.9	55.7	83.5

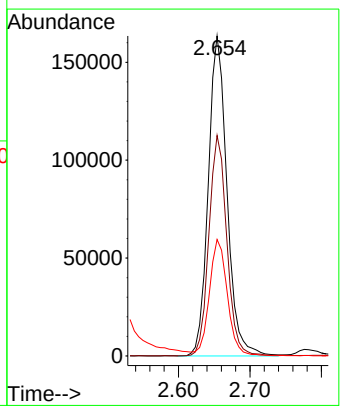


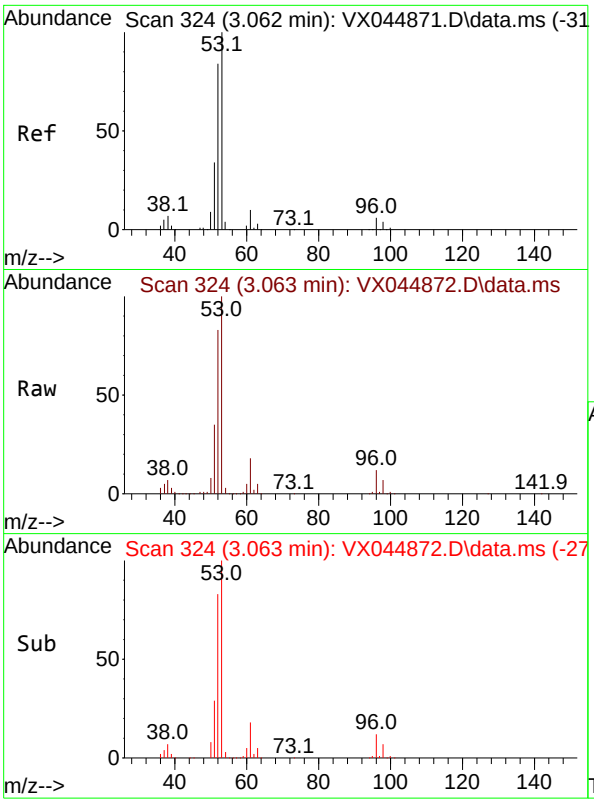


#14
Allyl chloride
Concen: 98.624 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 297526

Ion	Ratio	Lower	Upper
41	100		
39	65.6	51.4	77.2
76	34.9	27.0	40.4



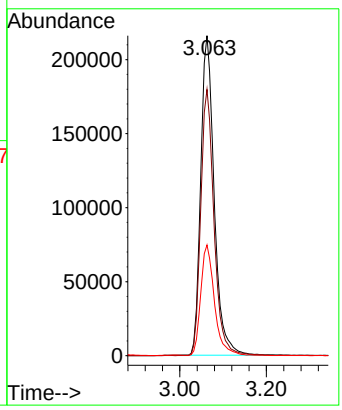


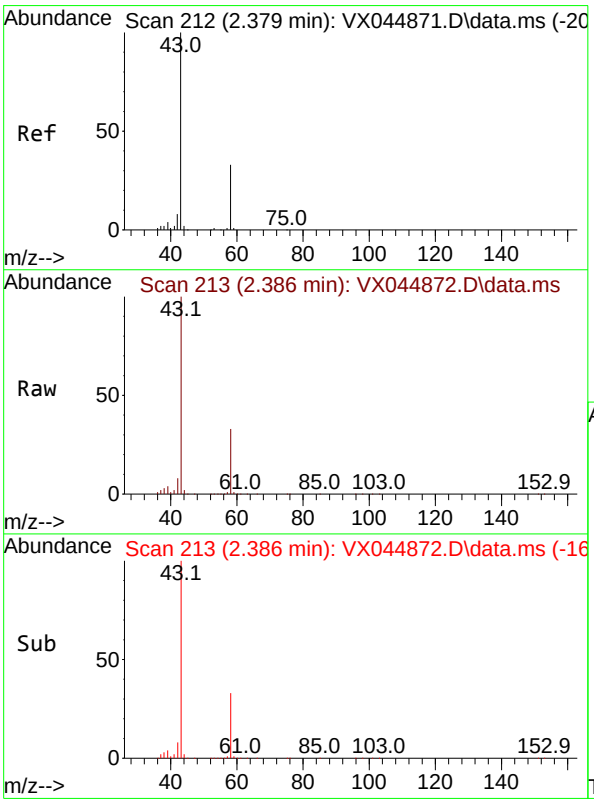
#15
Acrylonitrile
Concen: 497.173 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 466855

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.0	97.6
51	34.9	28.0	42.0

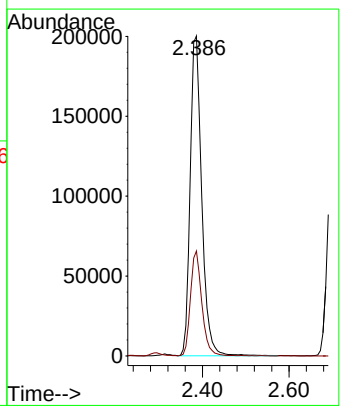


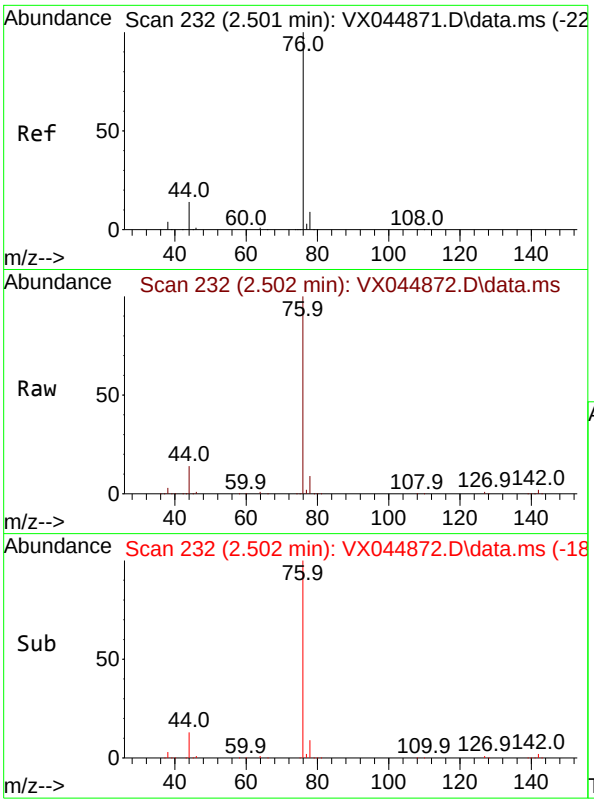


#16
Acetone
Concen: 485.125 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.007 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 369720

Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.5	39.7



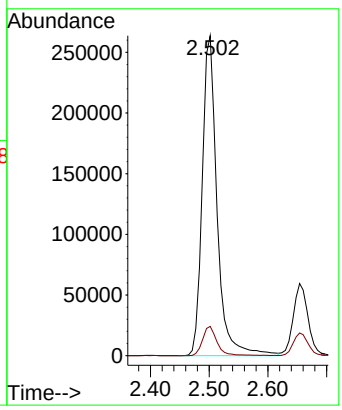


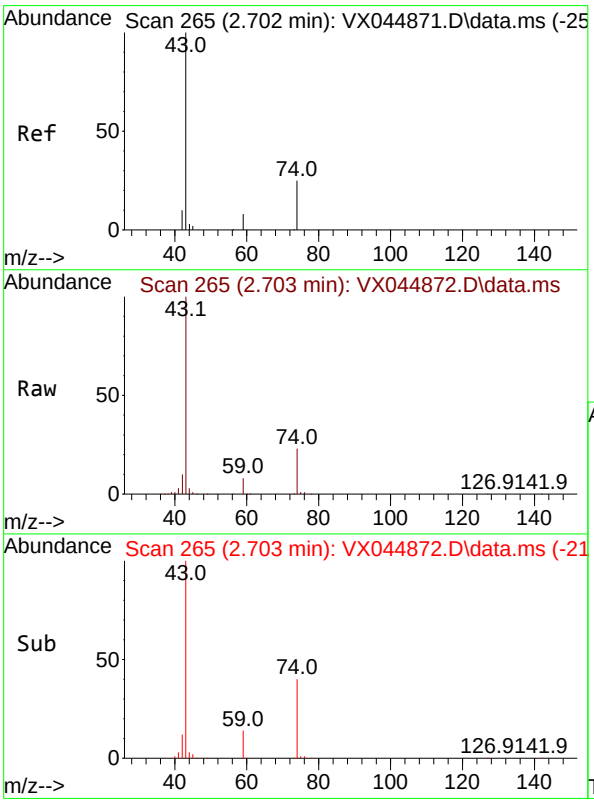
#17
Carbon Disulfide
Concen: 101.216 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 463308

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4

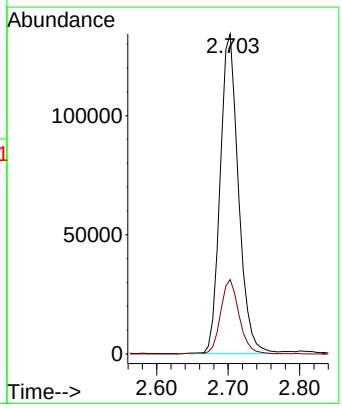


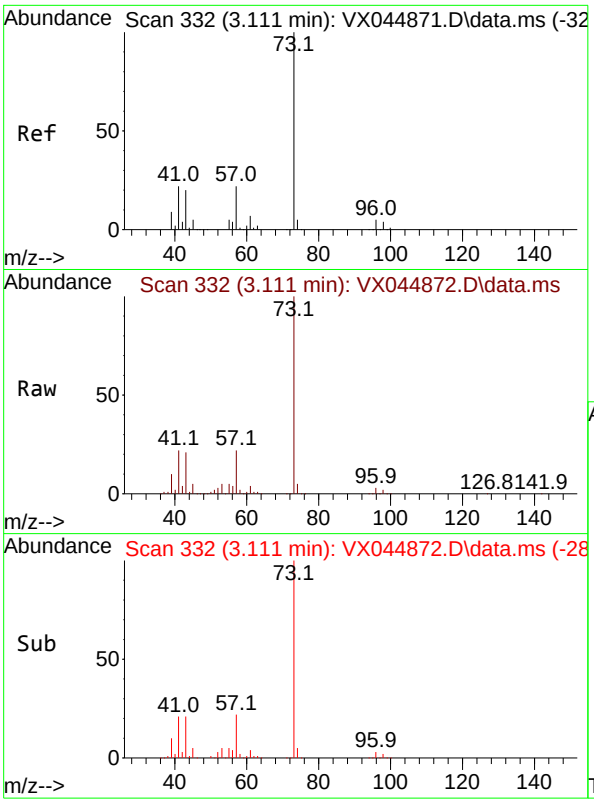


#18
Methyl Acetate
Concen: 99.249 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 238689

Ion	Ratio	Lower	Upper
43	100		
74	23.8	18.9	28.3



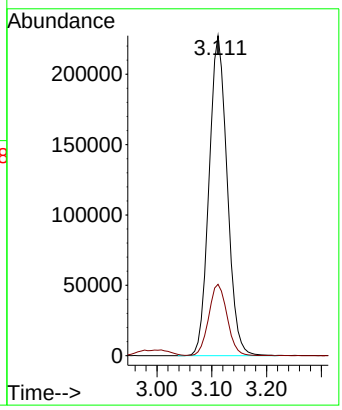


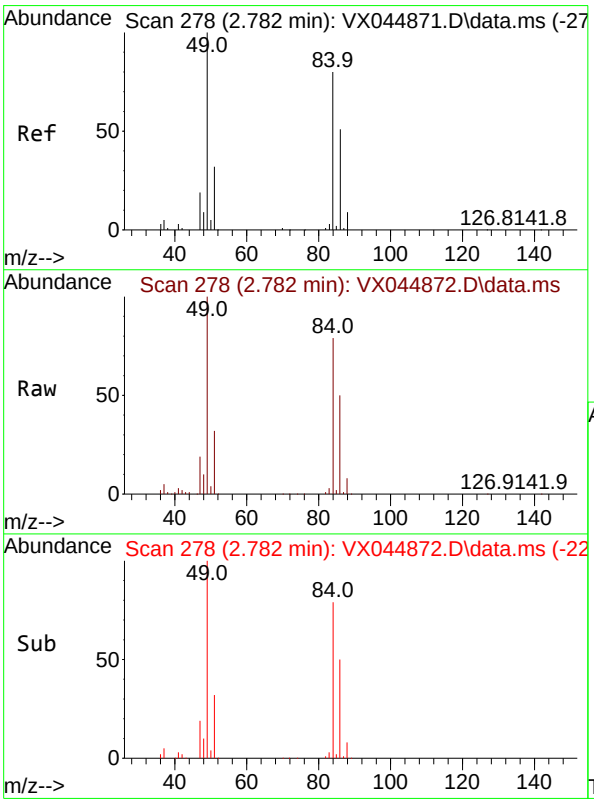
#19
Methyl tert-butyl Ether
Concen: 98.098 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 521003

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9

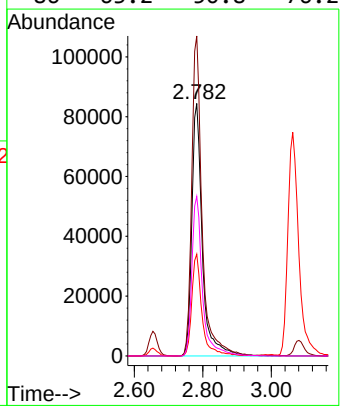


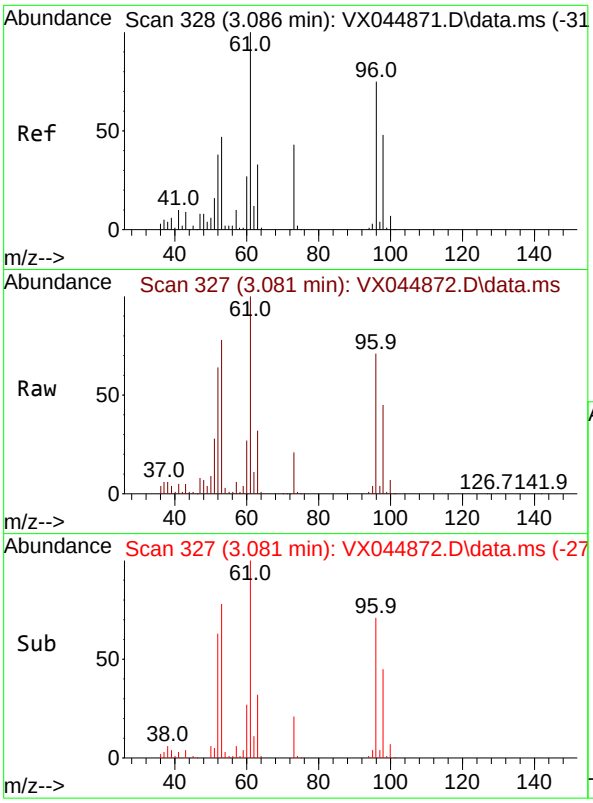


#20
Methylene Chloride
Concen: 96.490 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 84 Resp: 180120

Ion	Ratio	Lower	Upper
84	100		
49	126.7	100.1	150.1
51	40.3	31.7	47.5
86	63.2	50.8	76.2



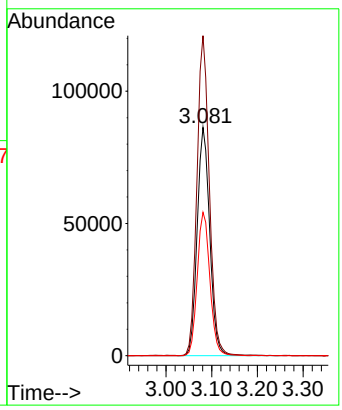


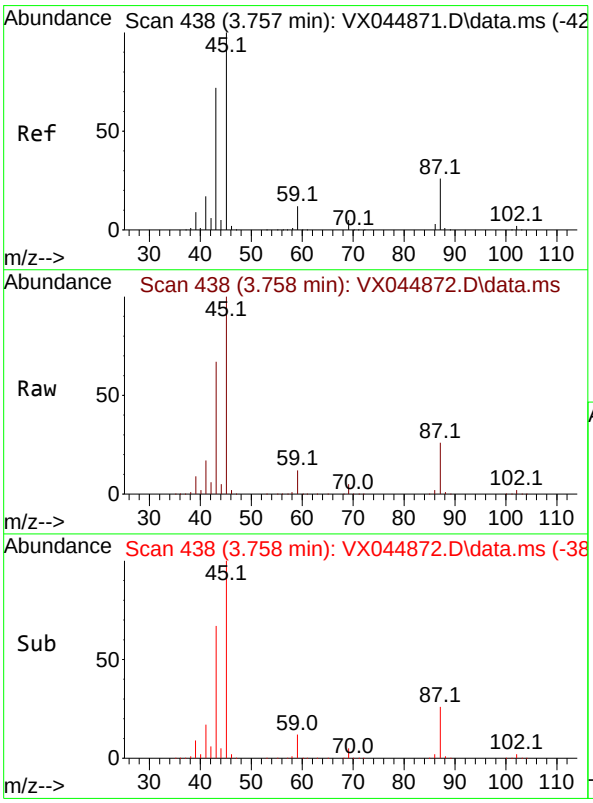
#21
trans-1,2-Dichloroethene
Concen: 99.864 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 164067

Ion	Ratio	Lower	Upper
96	100		
61	140.2	106.0	159.0
98	62.8	50.6	76.0

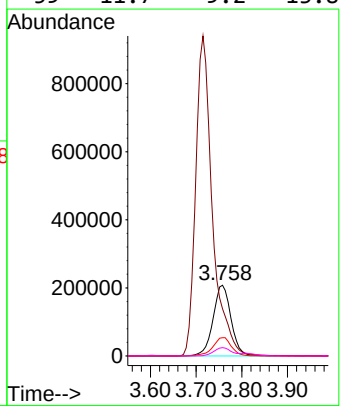


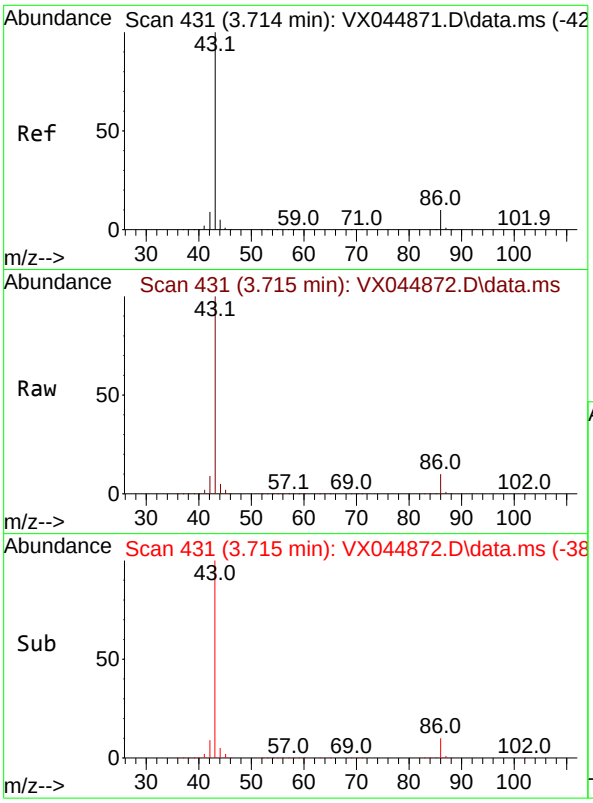


#22
Diisopropyl ether
Concen: 99.157 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 45 Resp: 565927

Ion	Ratio	Lower	Upper
45	100		
43	66.7	58.0	87.0
87	25.7	20.7	31.1
59	11.7	9.2	13.8



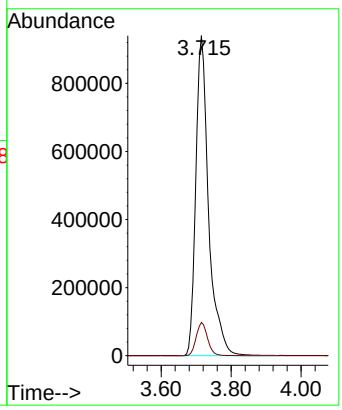


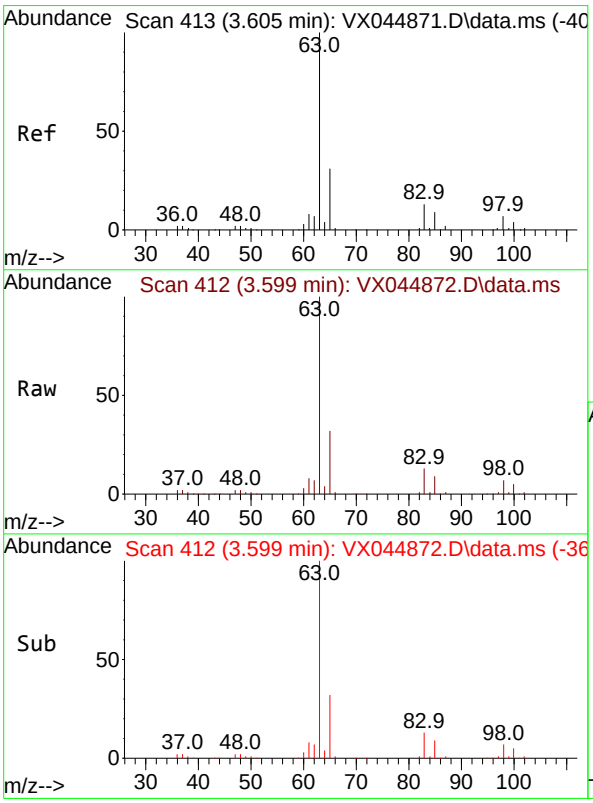
#23
Vinyl Acetate
Concen: 513.051 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2387200

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5

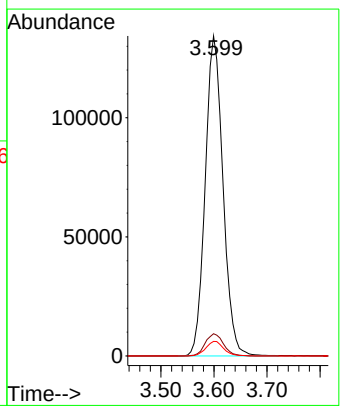


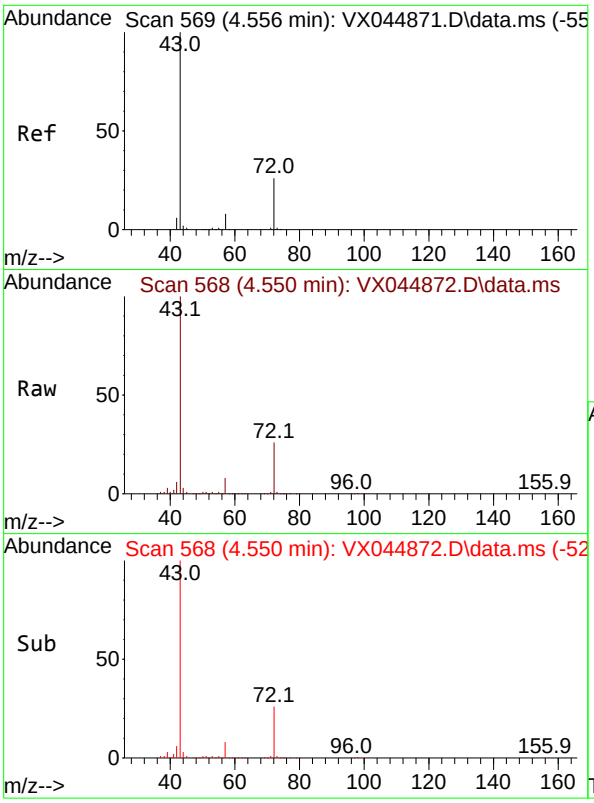


#24
1,1-Dichloroethane
Concen: 98.064 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 313164

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.3	9.9
100	4.5	2.1	6.5



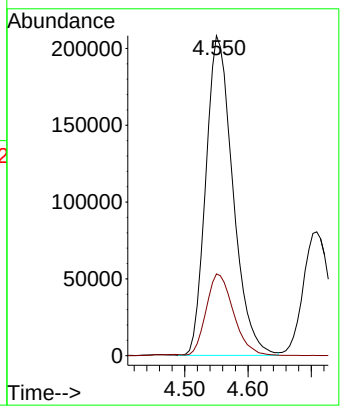


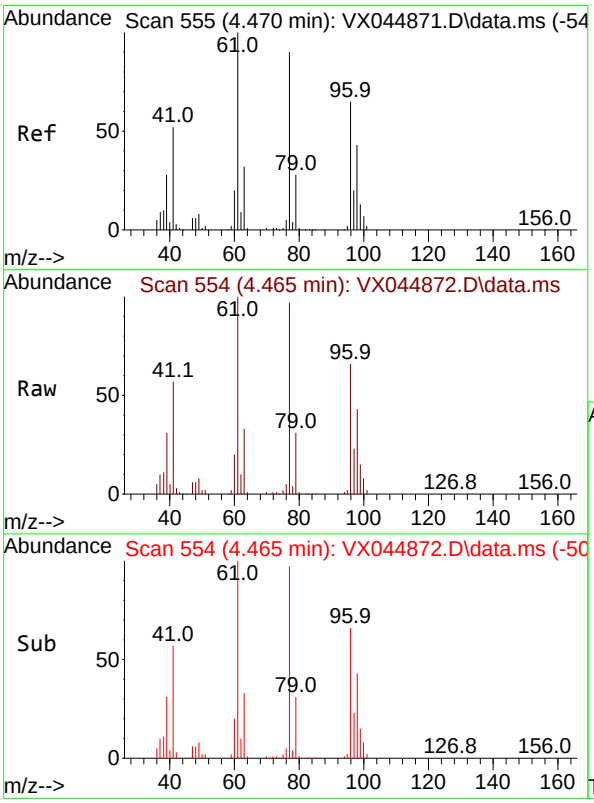
#25
2-Butanone
Concen: 498.801 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 617283

Ion	Ratio	Lower	Upper
43	100		
72	25.4	21.2	31.8

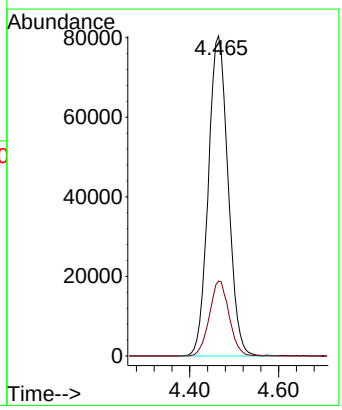


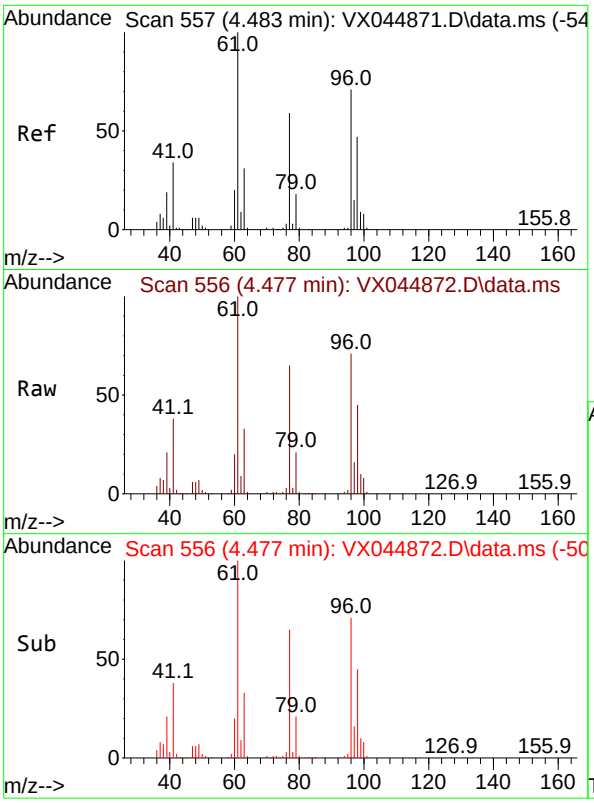


#26
2,2-Dichloropropane
Concen: 98.053 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 77 Resp: 248324

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.8	35.3



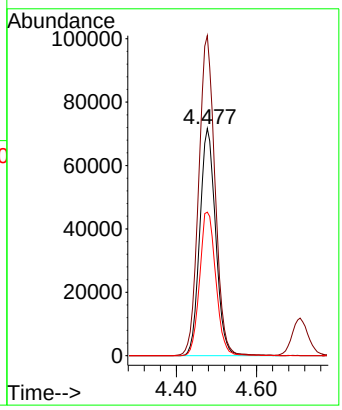


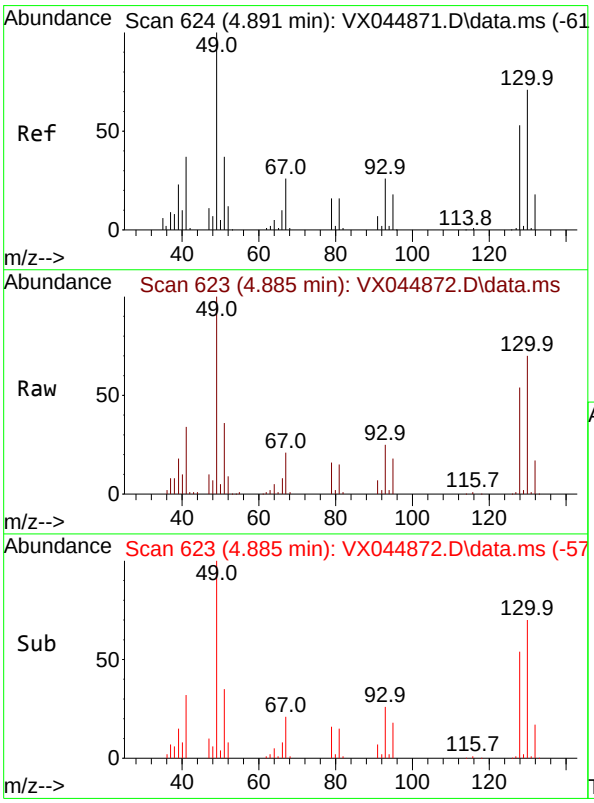
#27
cis-1,2-Dichloroethene
Concen: 99.513 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 196381

Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	294.0
98	64.6	0.0	131.2

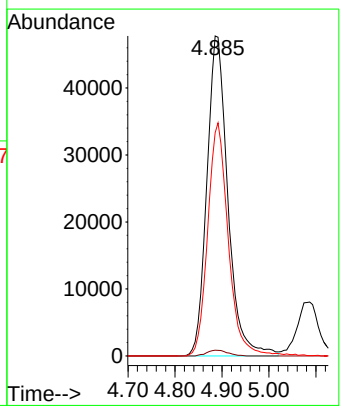


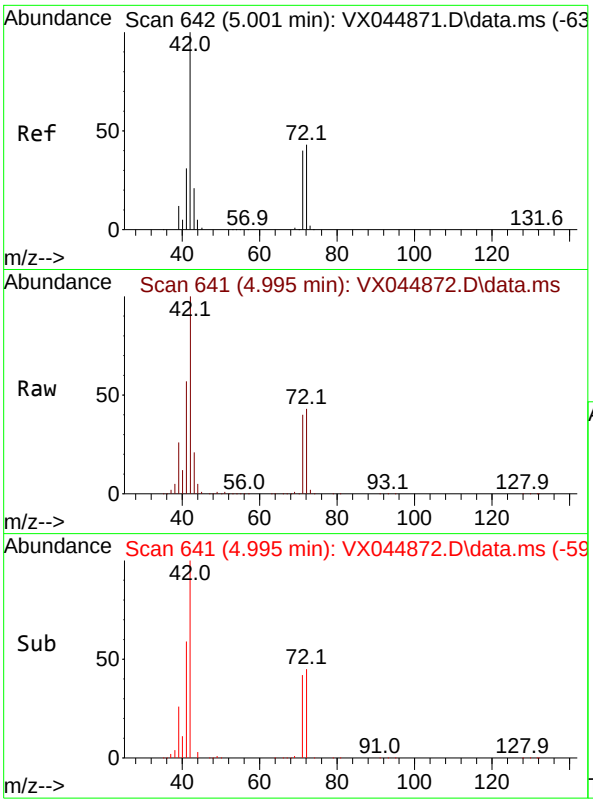


#28
Bromochloromethane
Concen: 96.524 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 49 Resp: 148137

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	71.1	56.7	85.1



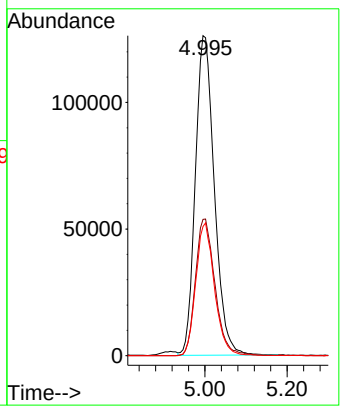


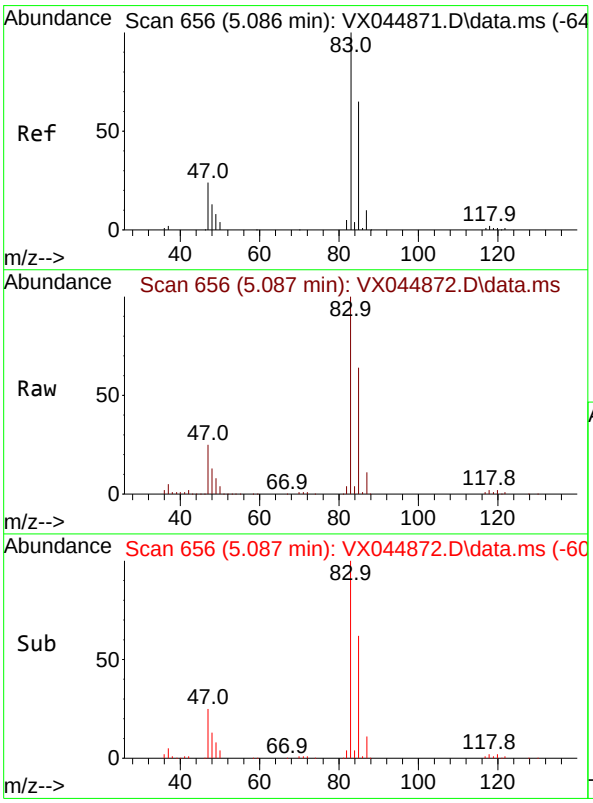
#29
Tetrahydrofuran
Concen: 493.104 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 405208

Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.0	52.4
71	40.8	32.6	48.8

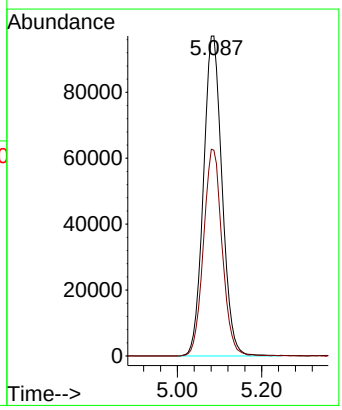


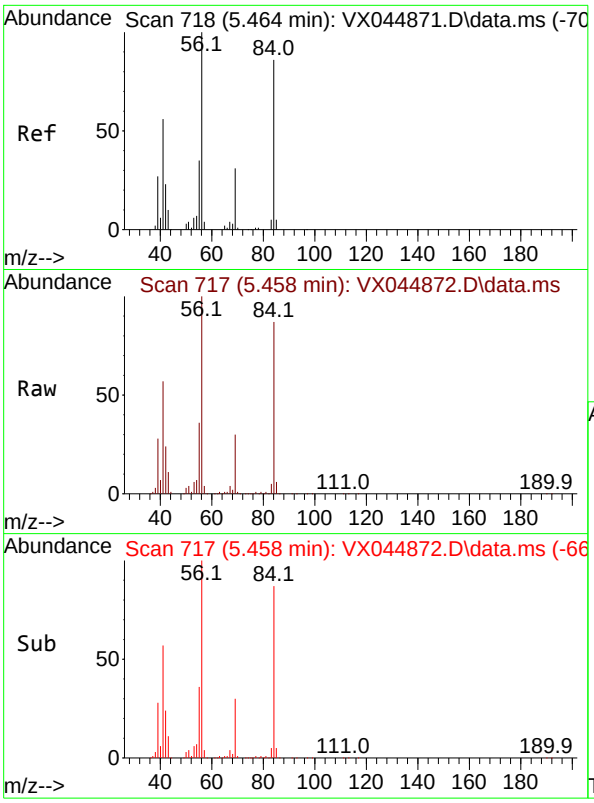


#30
Chloroform
Concen: 96.445 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 83 Resp: 298690

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1



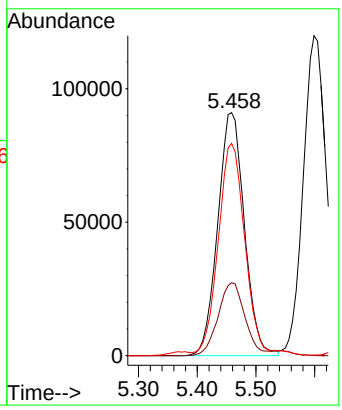


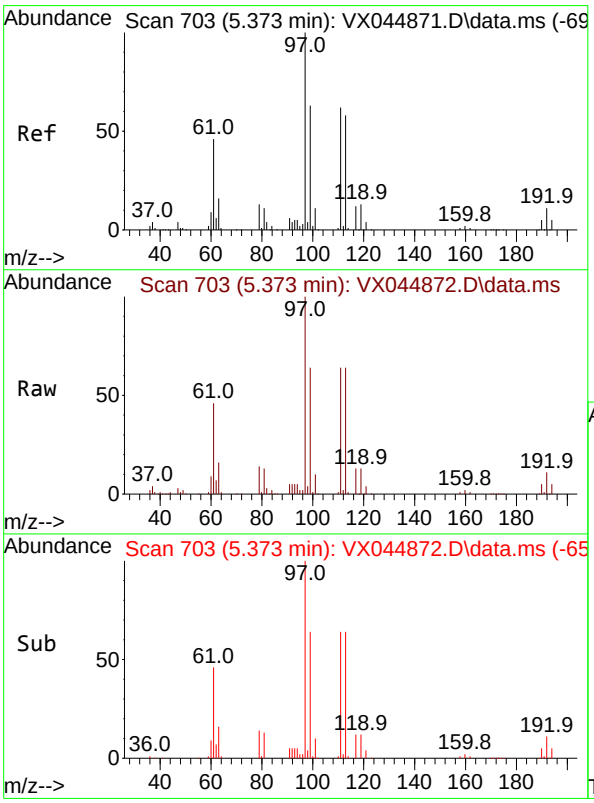
#31
Cyclohexane
Concen: 97.426 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 286830

Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	85.7	69.0	103.6

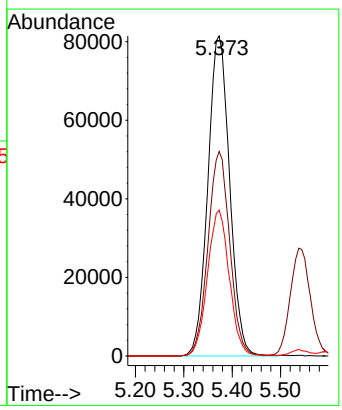


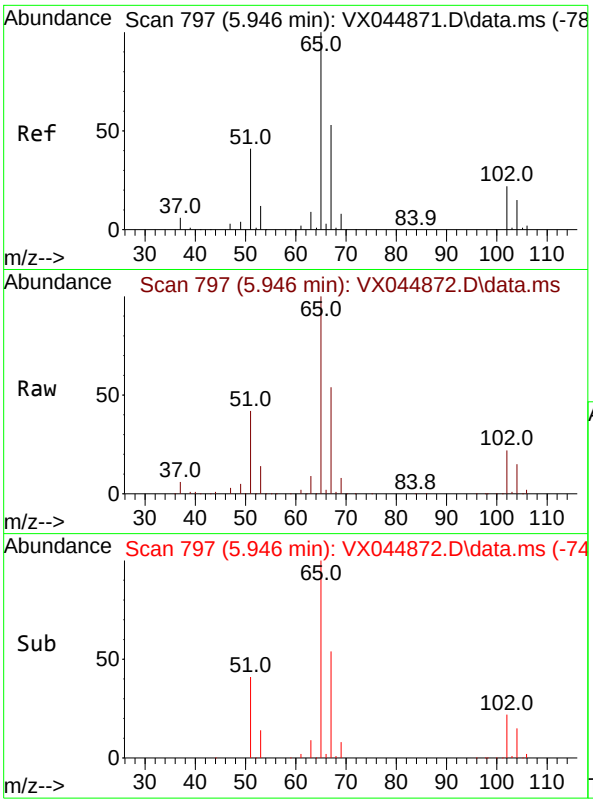


#32
1,1,1-Trichloroethane
Concen: 97.050 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 97 Resp: 254941

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.8	36.6	55.0



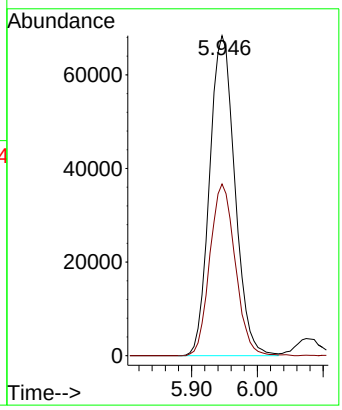


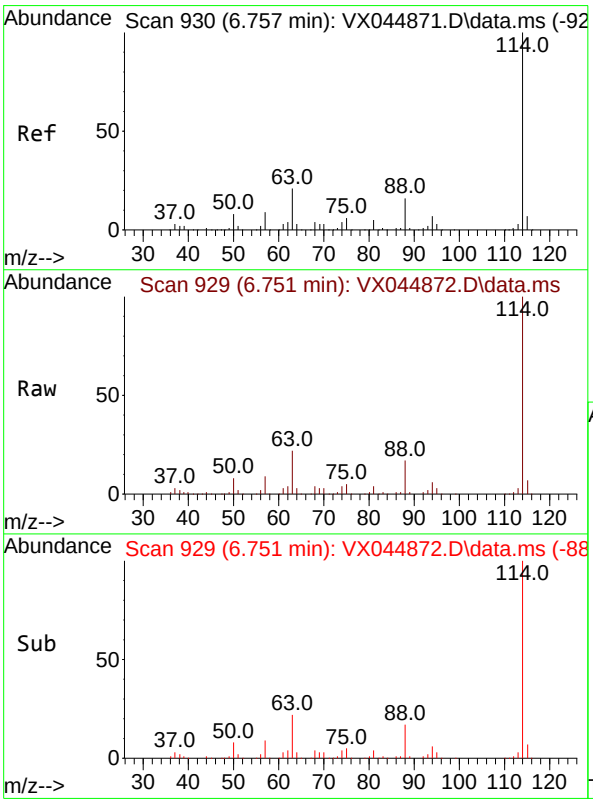
#33
1,2-Dichloroethane-d4
Concen: 96.580 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 183093

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	108.2

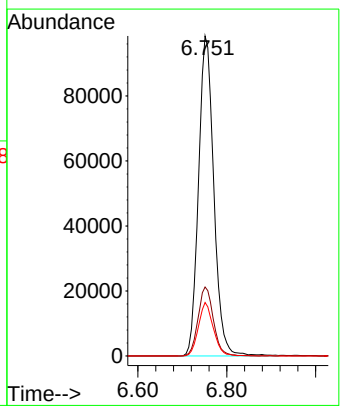


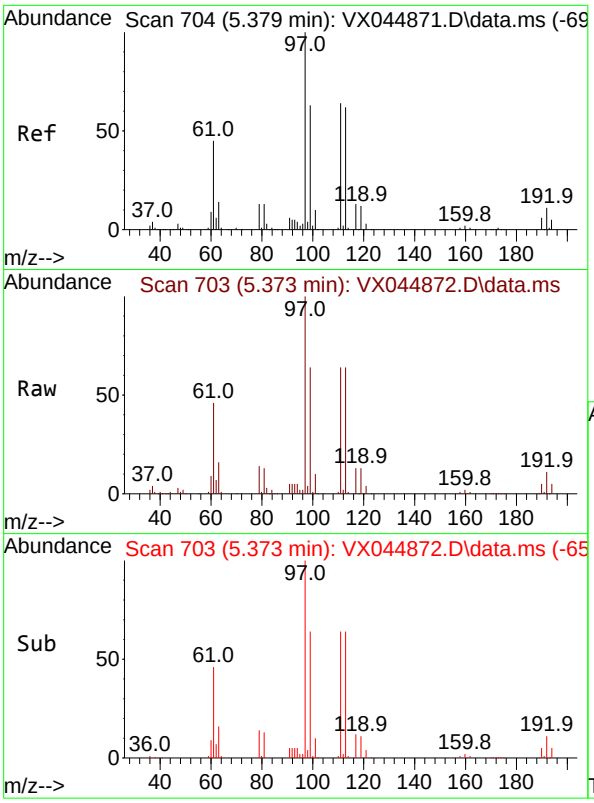


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:114 Resp: 236372

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.4
88	16.7	0.0	31.4



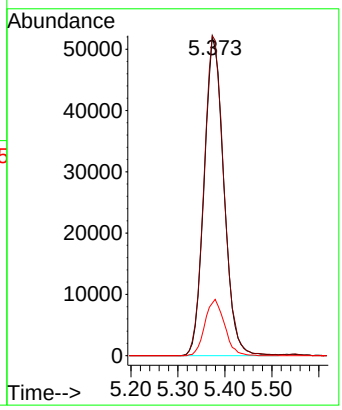


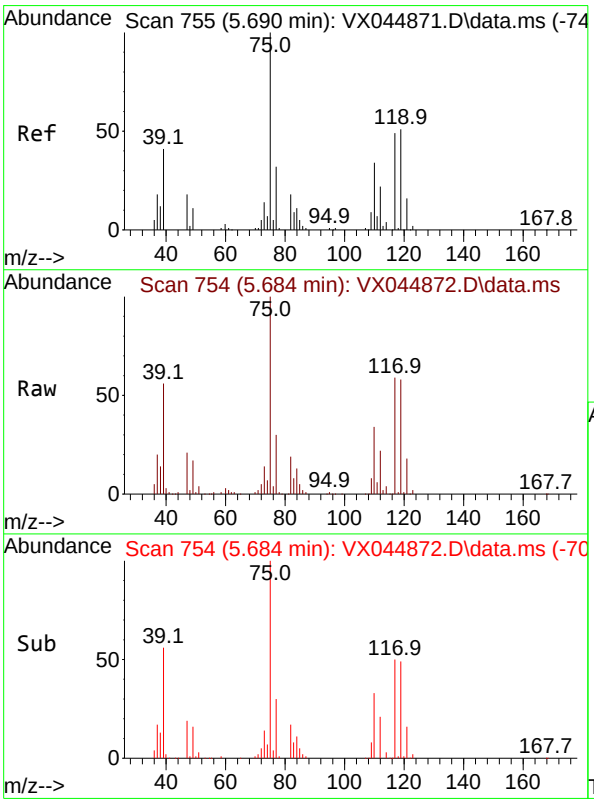
#35
Dibromofluoromethane
Concen: 98.404 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 151228

Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.5	125.3
192	17.6	14.4	21.6

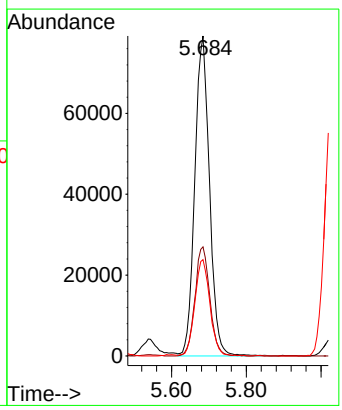


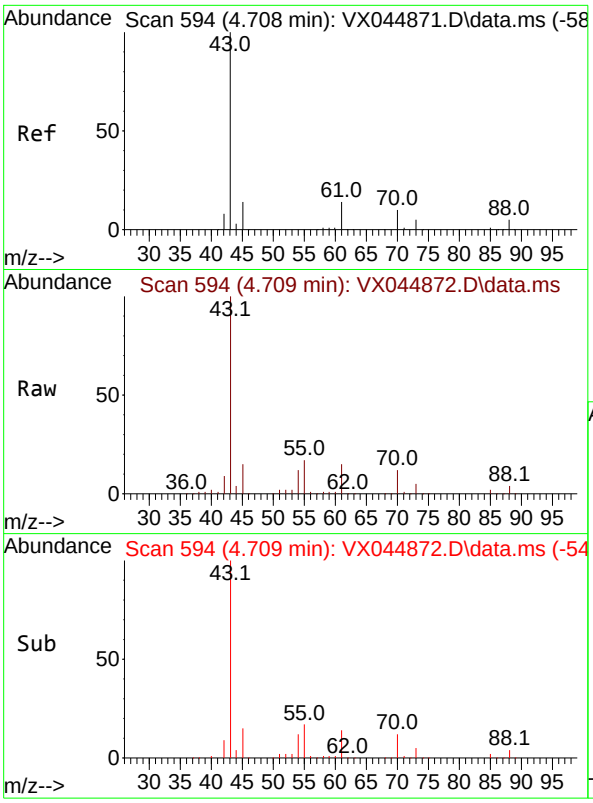


#36
1,1-Dichloropropene
Concen: 97.422 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 216005

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	30.9	24.6	37.0



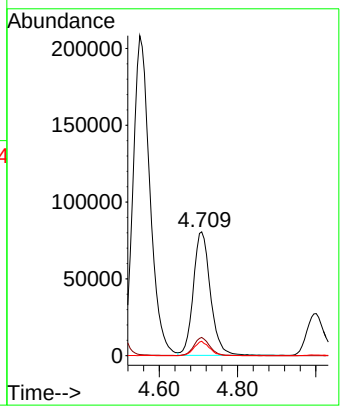


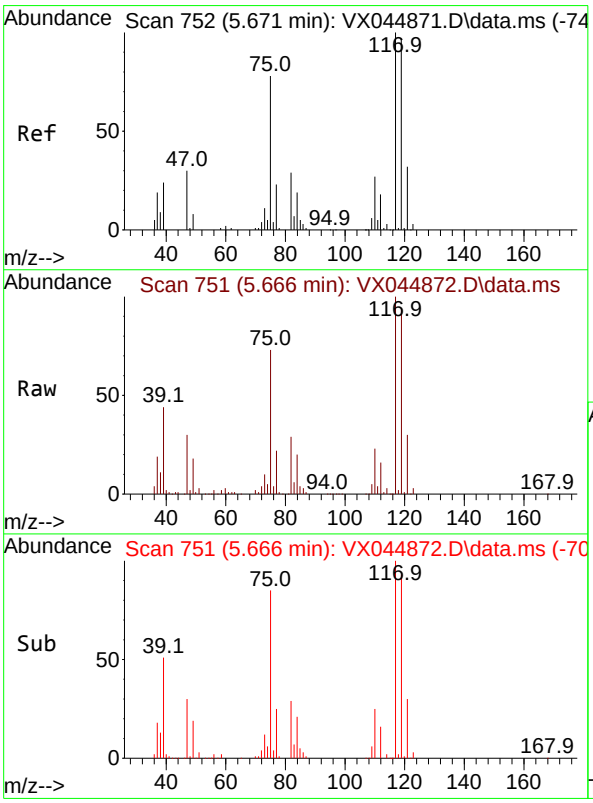
#37
Ethyl Acetate
Concen: 99.005 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 244164

Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.0	16.4
70	10.6	8.2	12.2

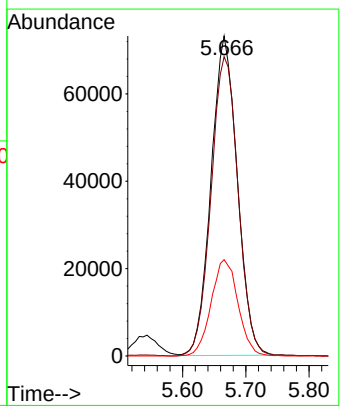


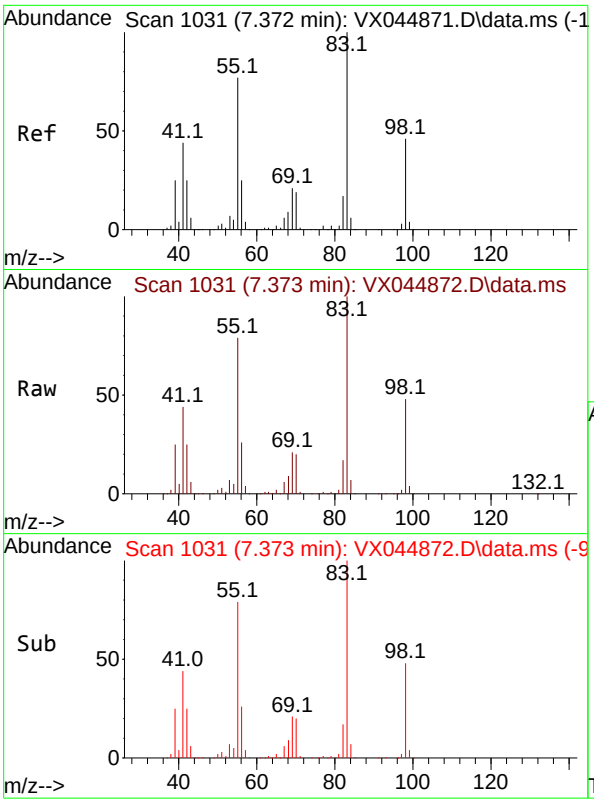


#38
Carbon Tetrachloride
Concen: 96.828 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 210381

Ion	Ratio	Lower	Upper
117	100		
119	93.6	77.5	116.3
121	30.2	25.6	38.4



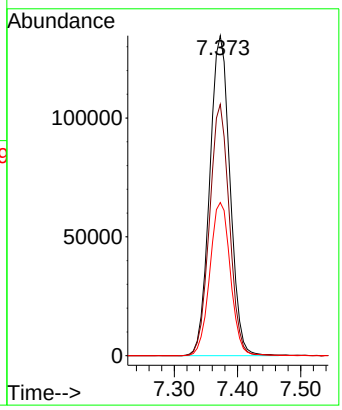


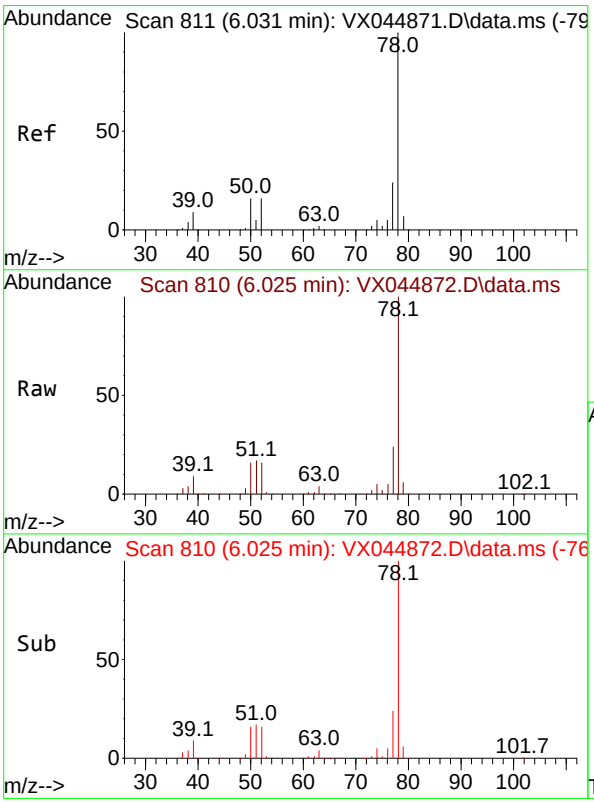
#39
Methylcyclohexane
Concen: 104.554 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 299703

Ion	Ratio	Lower	Upper
83	100		
55	78.5	61.3	91.9
98	47.8	37.0	55.6

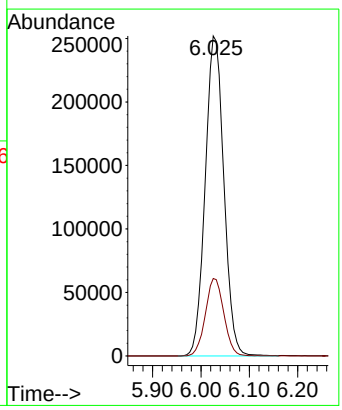


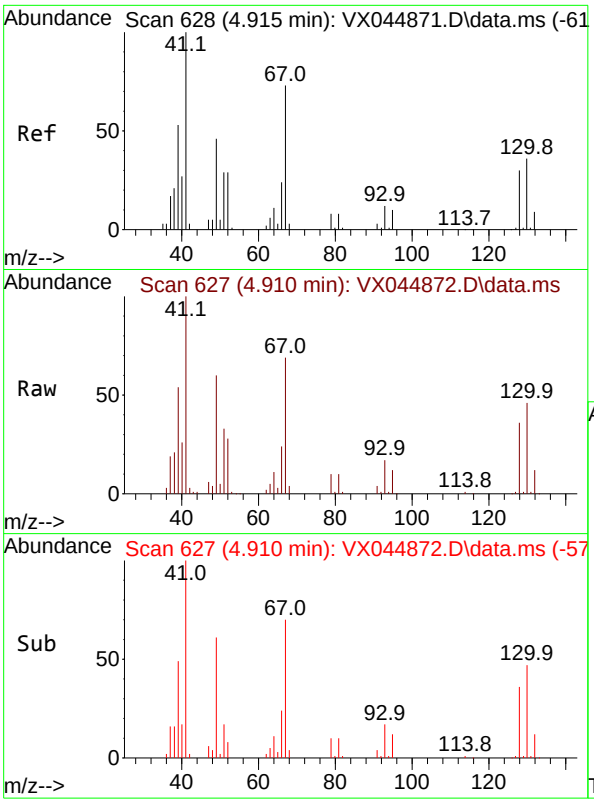


#40
Benzene
Concen: 97.576 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 78 Resp: 675556

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6



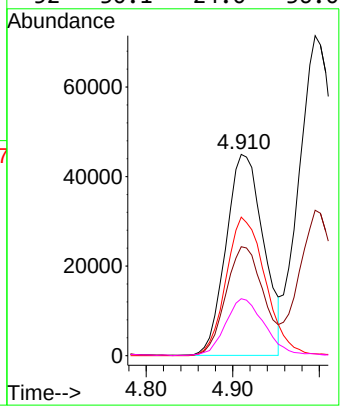


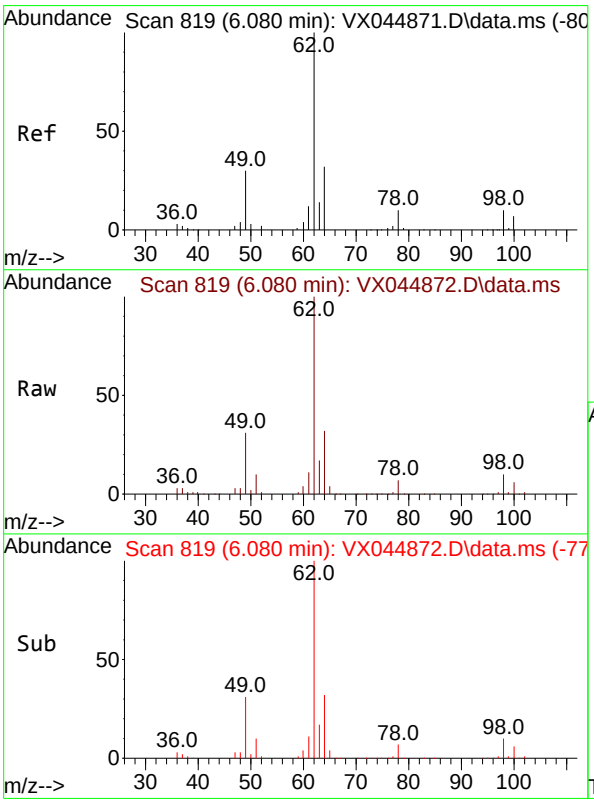
#41
Methacrylonitrile
Concen: 102.745 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 135629

Ion	Ratio	Lower	Upper
41	100		
39	53.9	43.1	64.7
67	72.4	57.0	85.6
52	30.1	24.0	36.0

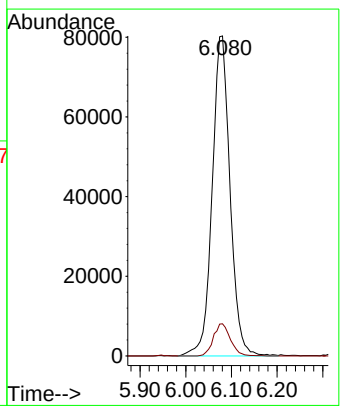


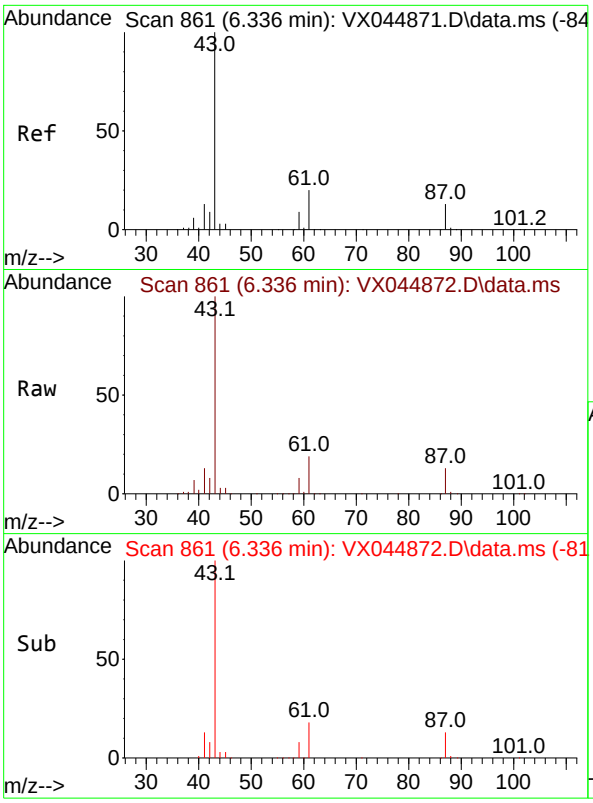


#42
1,2-Dichloroethane
Concen: 98.875 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 62 Resp: 218174

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4



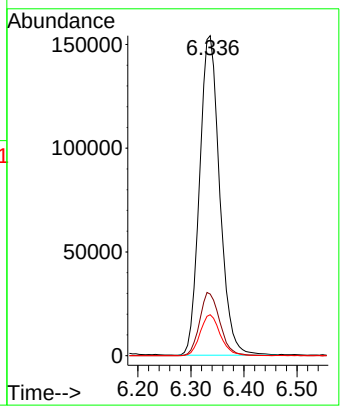


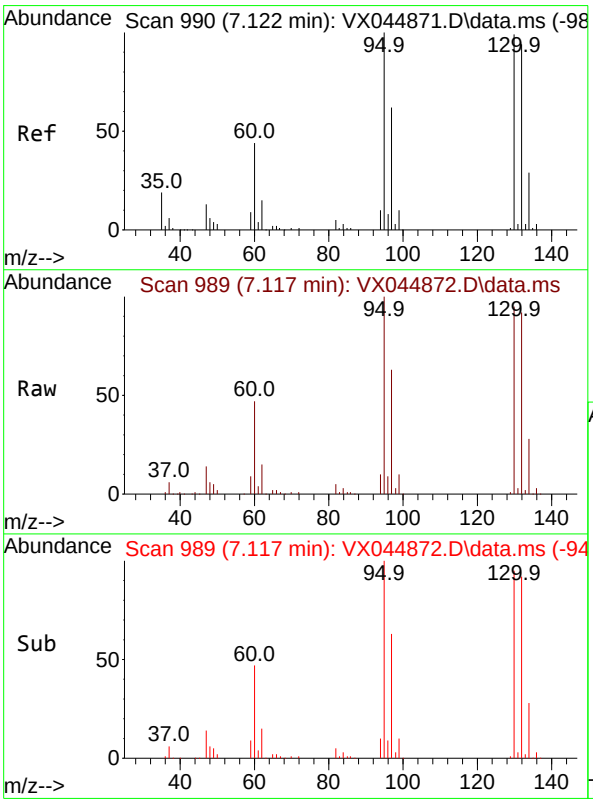
#43
Isopropyl Acetate
Concen: 101.818 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 405489

Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.8
87	12.8	10.0	15.0

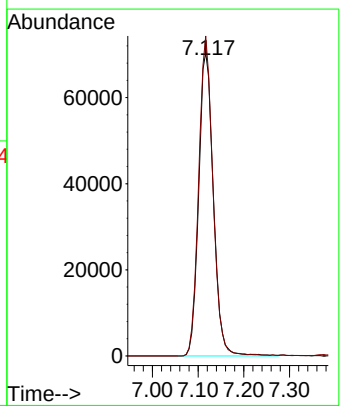


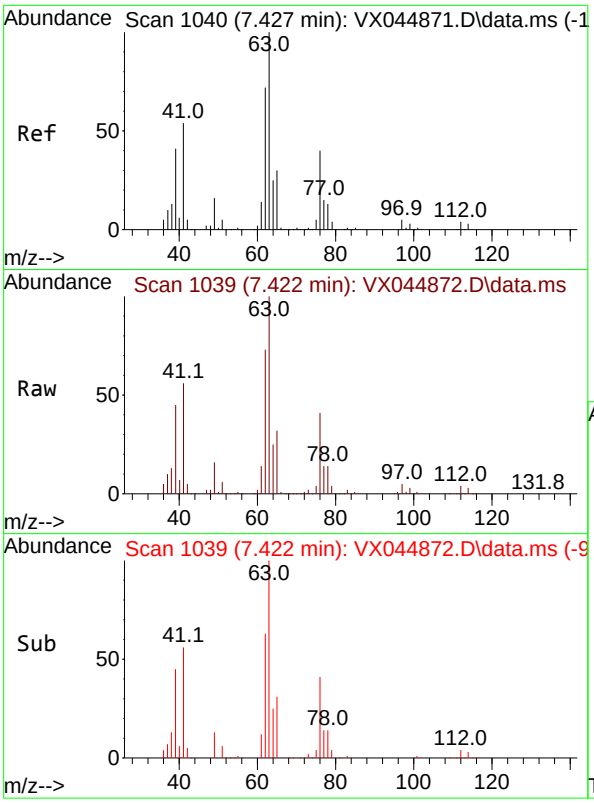


#44
Trichloroethene
Concen: 99.103 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:130 Resp: 156832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	202.4



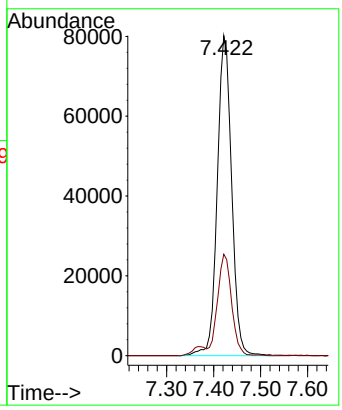


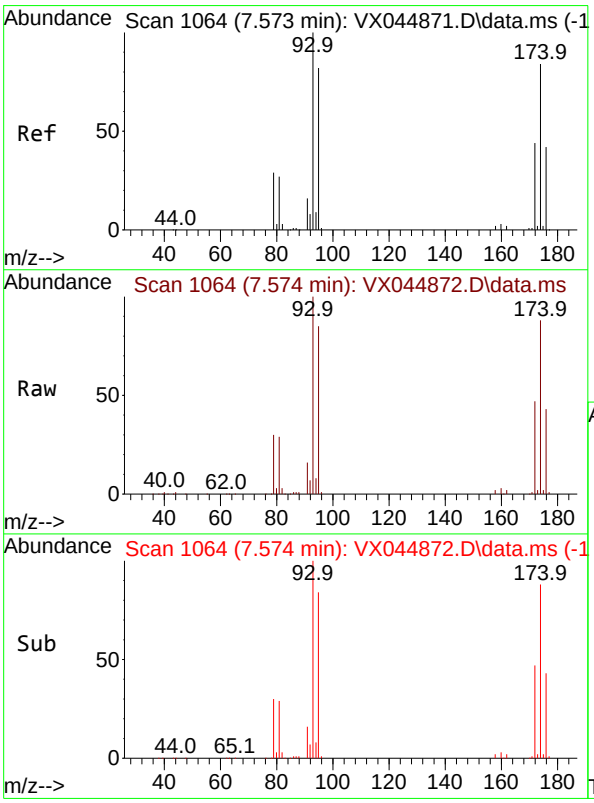
#45
1,2-Dichloropropane
Concen: 98.893 ug/l
RT: 7.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 170337

Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.2	36.4

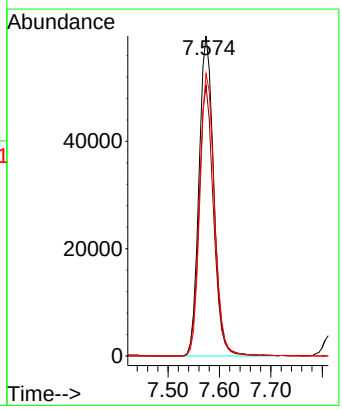


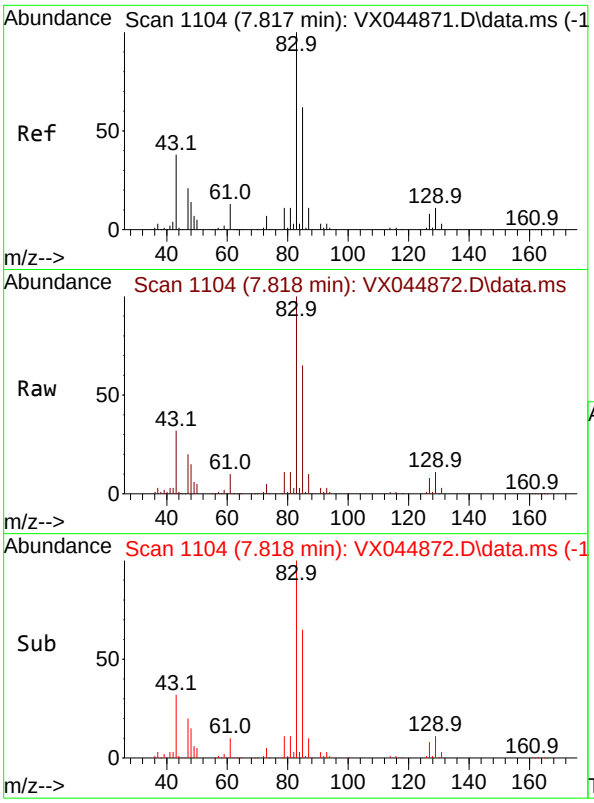


#46
Dibromomethane
Concen: 99.747 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 93 Resp: 119149

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.4
174	88.1	69.9	104.9



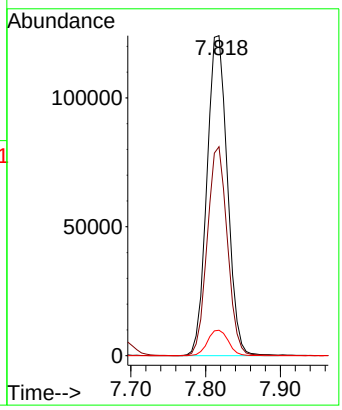


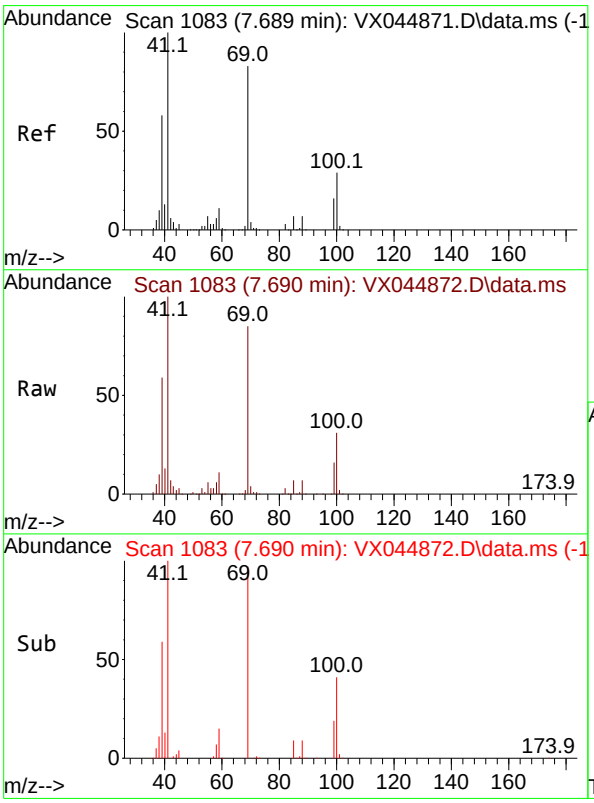
#47
Bromodichloromethane
Concen: 102.254 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 236506

Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.0	75.0
127	8.0	6.4	9.6

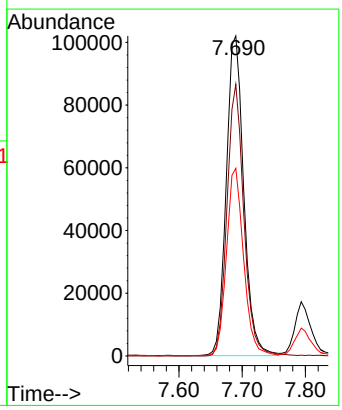


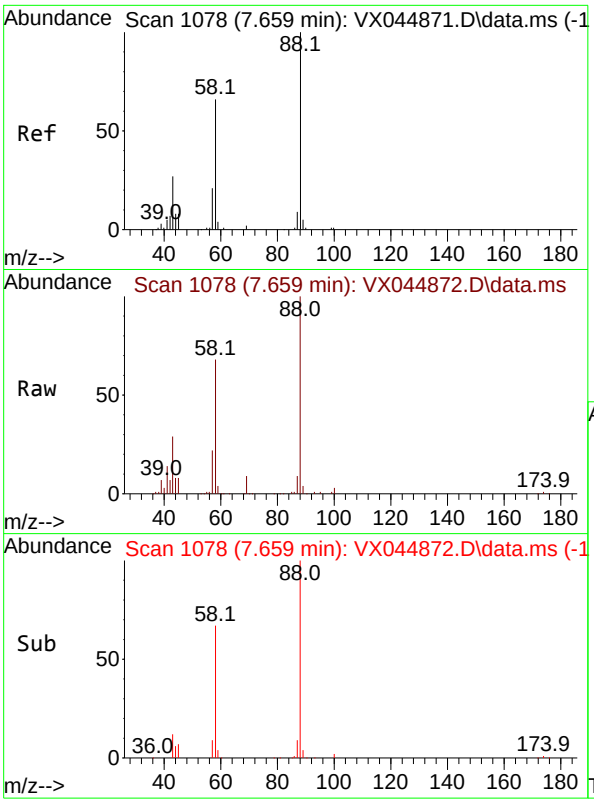


#48
Methyl methacrylate
Concen: 104.321 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 41 Resp: 195892

Ion	Ratio	Lower	Upper
41	100		
69	82.1	65.8	98.8
39	57.3	46.4	69.6



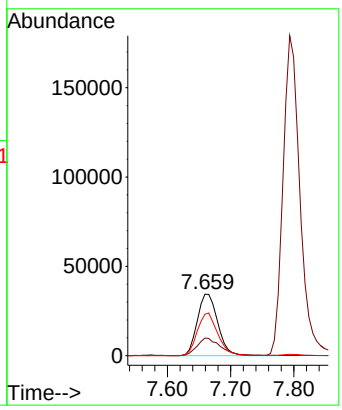


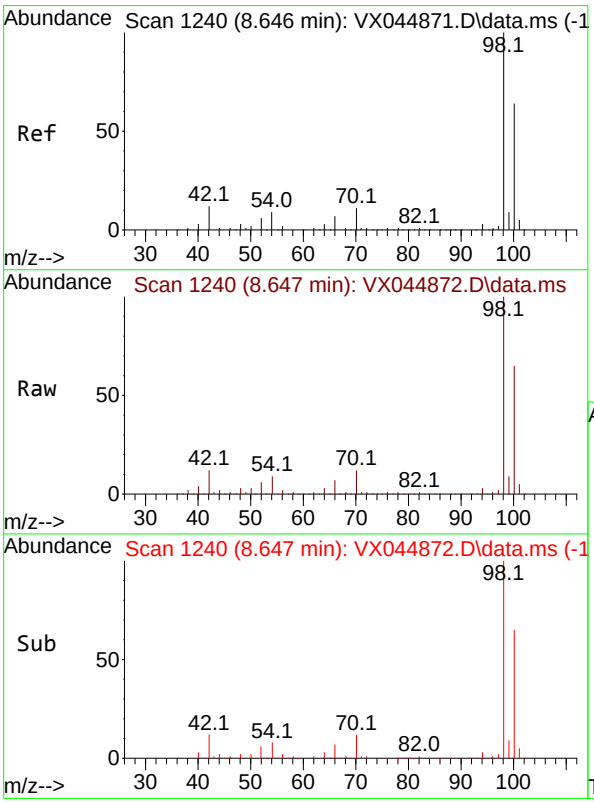
#49
1,4-Dioxane
Concen: 1931.508 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 77816

Ion	Ratio	Lower	Upper
88	100		
43	31.8	26.6	39.8
58	68.9	55.9	83.9

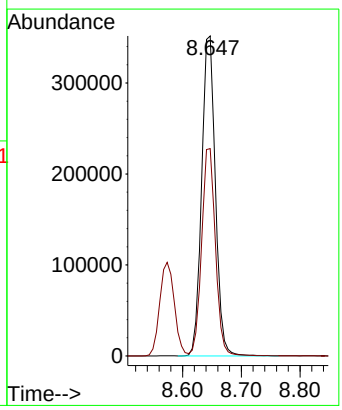


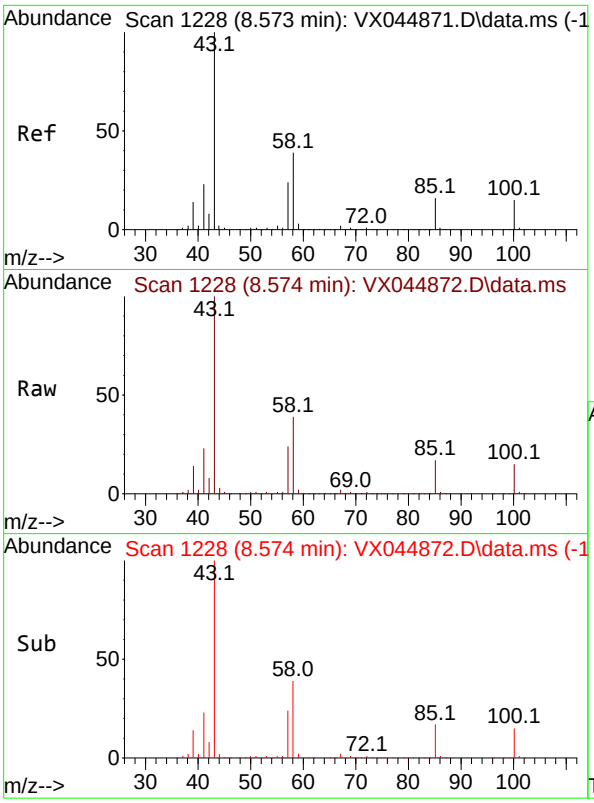


#50
Toluene-d8
Concen: 98.253 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 98 Resp: 570976

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.7	79.1



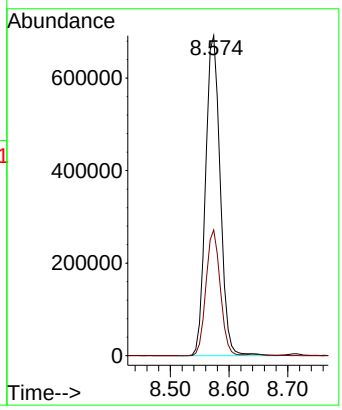


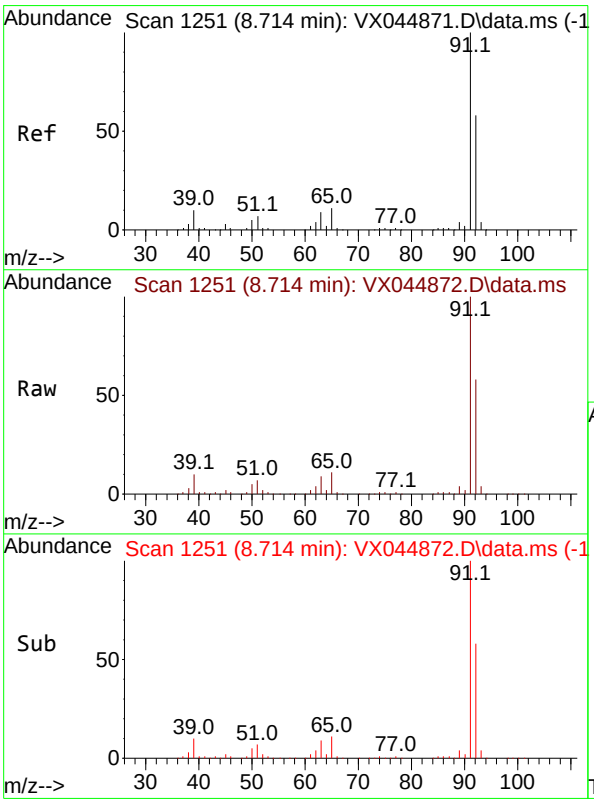
#51
4-Methyl-2-Pentanone
Concen: 494.353 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1196887

Ion	Ratio	Lower	Upper
43	100		
58	38.4	30.8	46.2

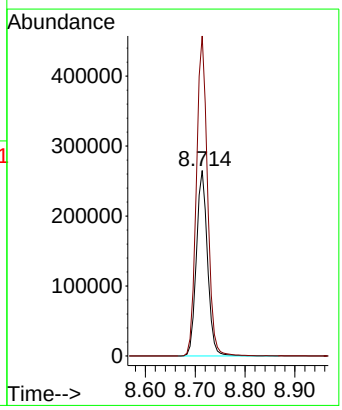


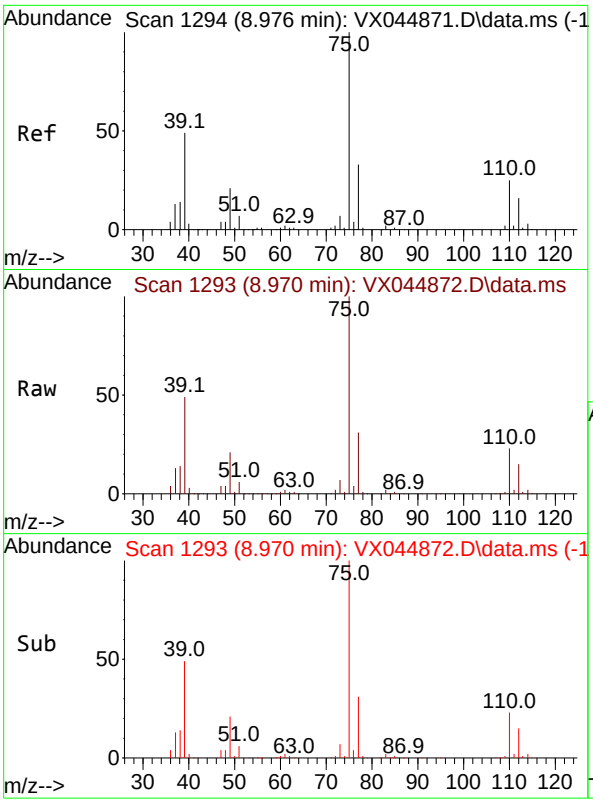


#52
Toluene
Concen: 99.270 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 92 Resp: 409318

Ion	Ratio	Lower	Upper
92	100		
91	173.0	137.4	206.2



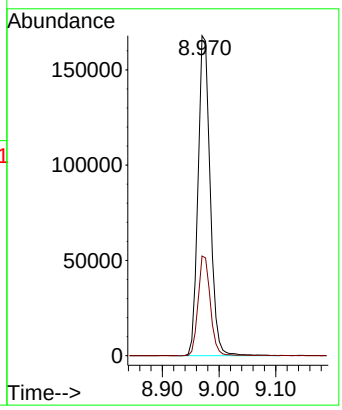


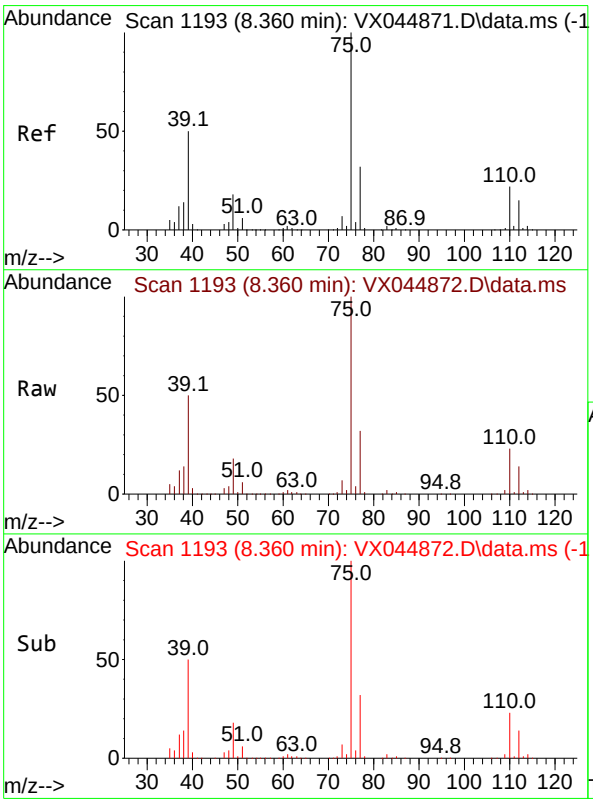
#53
t-1,3-Dichloropropene
Concen: 106.694 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 249725

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

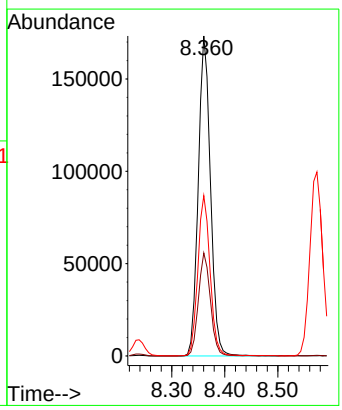


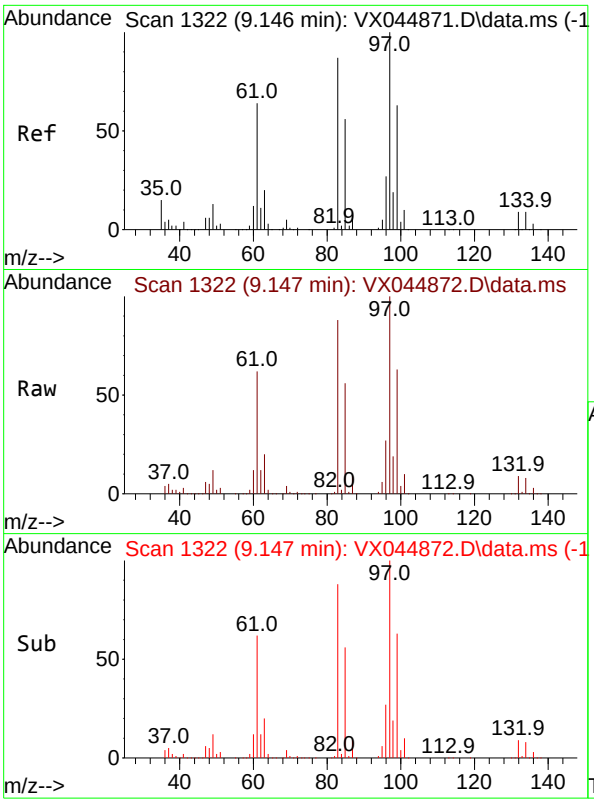


#54
cis-1,3-Dichloropropene
Concen: 106.287 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 277371

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.3	37.9
39	50.1	40.0	60.0



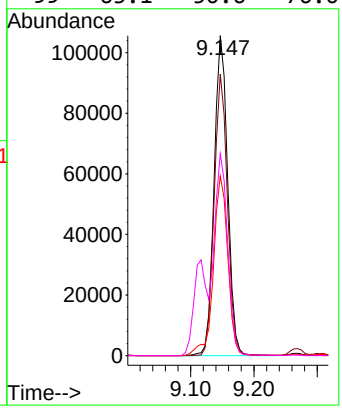


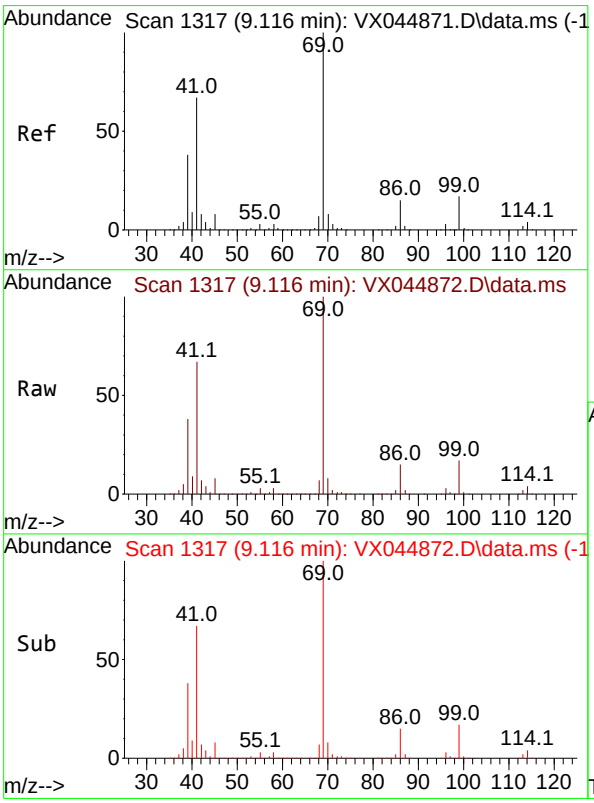
#55
1,1,2-Trichloroethane
Concen: 98.817 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 156629

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.8	104.6
85	56.2	44.8	67.2
99	63.1	50.6	76.0

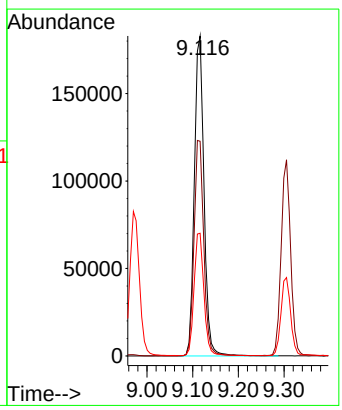


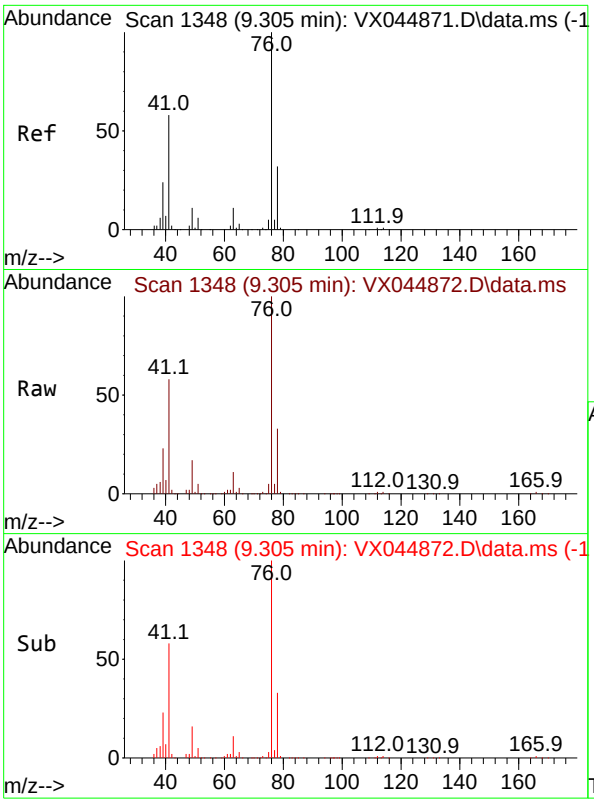


#56
Ethyl methacrylate
Concen: 104.958 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 69 Resp: 268693

Ion	Ratio	Lower	Upper
69	100		
41	68.0	55.2	82.8
39	39.2	30.8	46.2



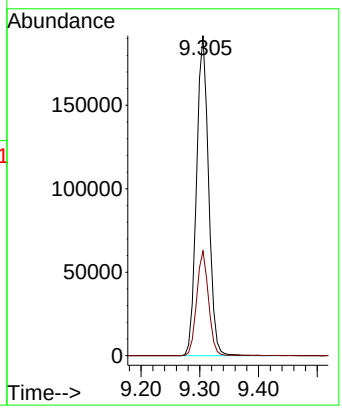


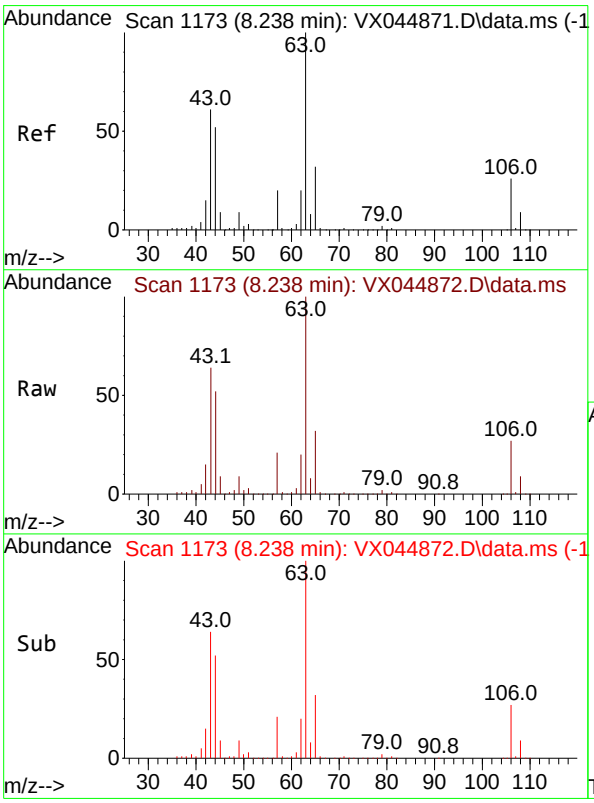
#57
1,3-Dichloropropane
Concen: 98.742 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 273845

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8

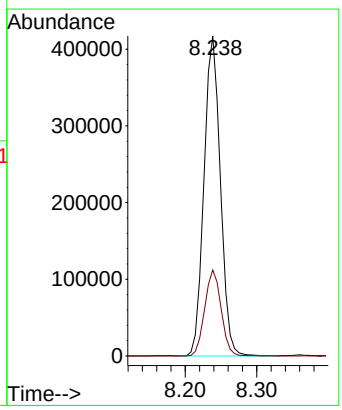


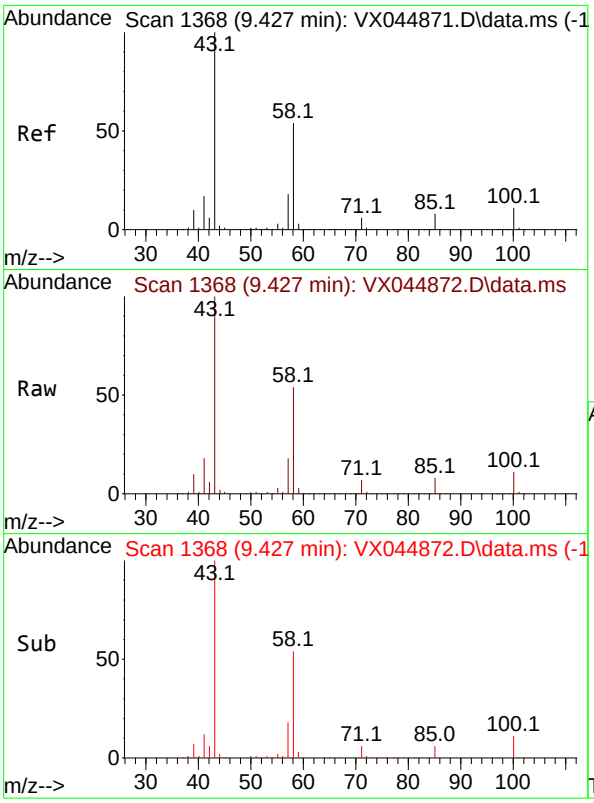


#58
2-Chloroethyl Vinyl ether
Concen: 528.405 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 63 Resp: 664198

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.3	31.9



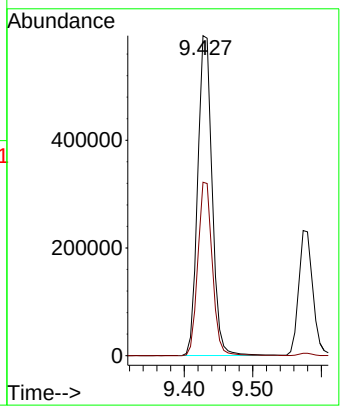


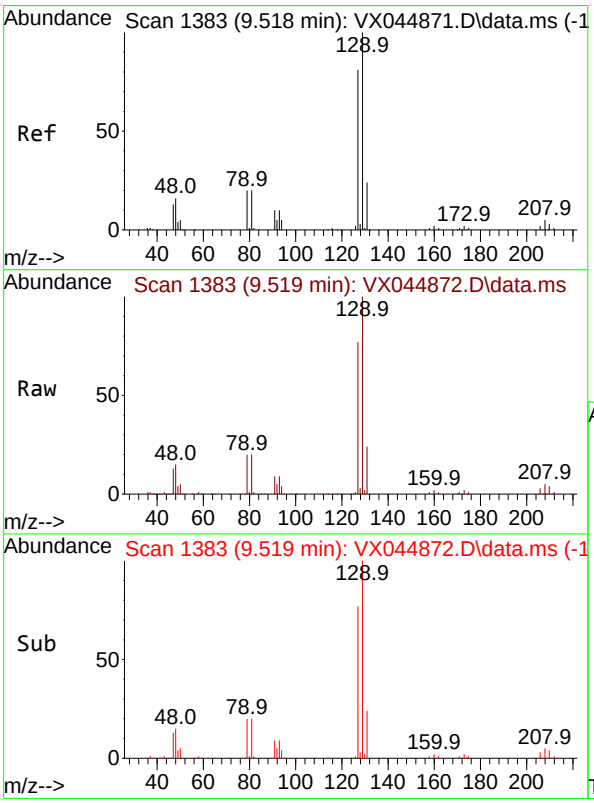
#59
2-Hexanone
Concen: 499.819 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 871904

Ion	Ratio	Lower	Upper
43	100		
58	54.4	27.5	82.4

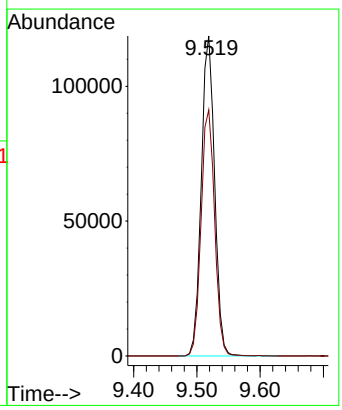


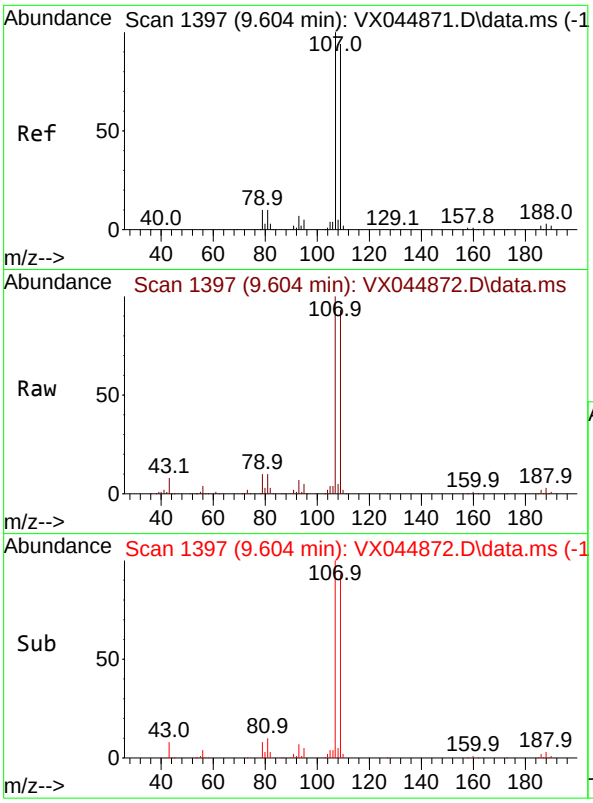


#60
Dibromochloromethane
Concen: 102.557 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:129 Resp: 173848

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.3



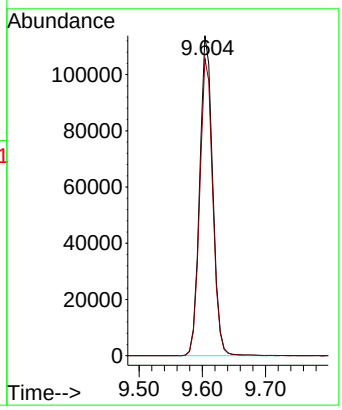


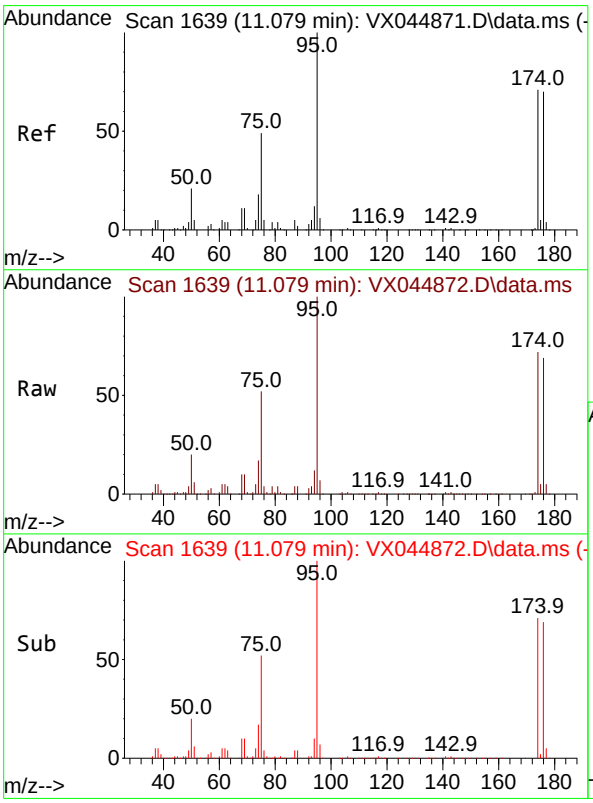
#61
1,2-Dibromoethane
Concen: 101.451 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 162982

Ion	Ratio	Lower	Upper
107	100		
109	93.1	75.9	113.9

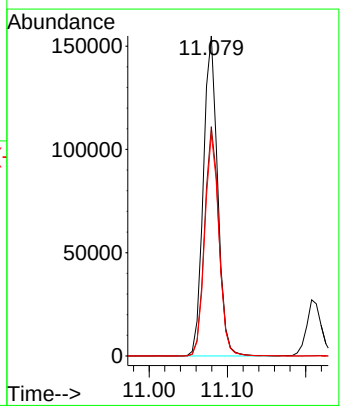


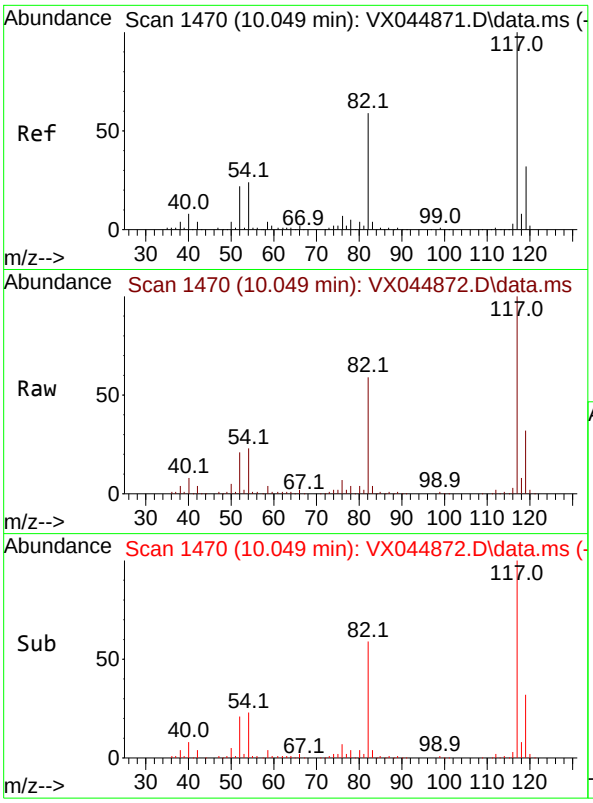


#62
4-Bromofluorobenzene
Concen: 100.079 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 95 Resp: 196066

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	142.6
176	68.8	0.0	141.6



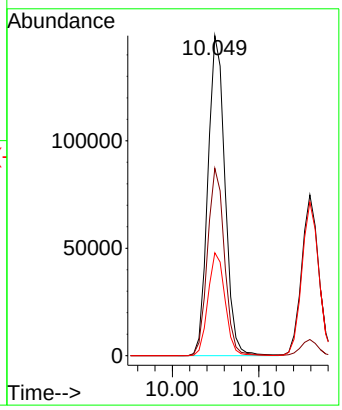


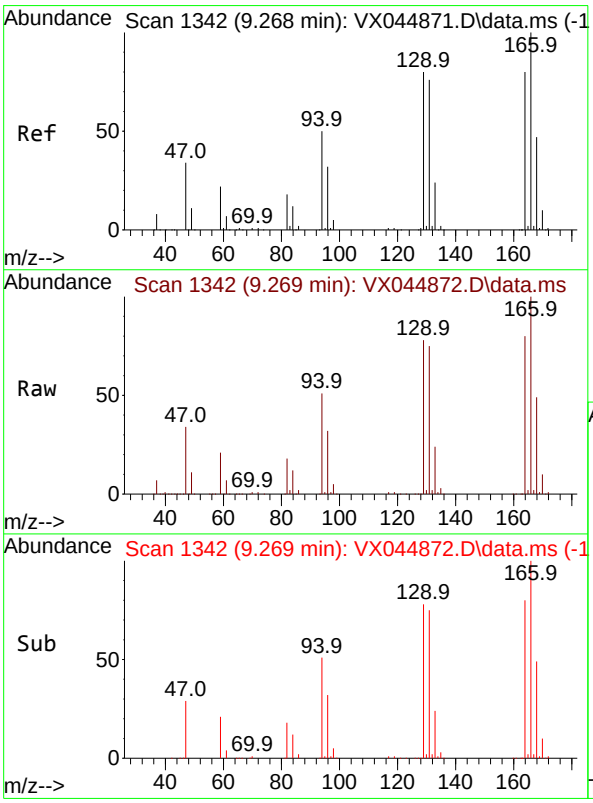
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 203881

Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.5	71.3
119	32.2	25.4	38.0

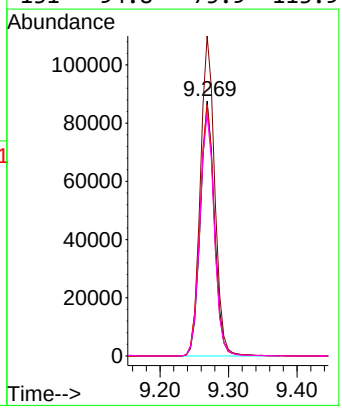


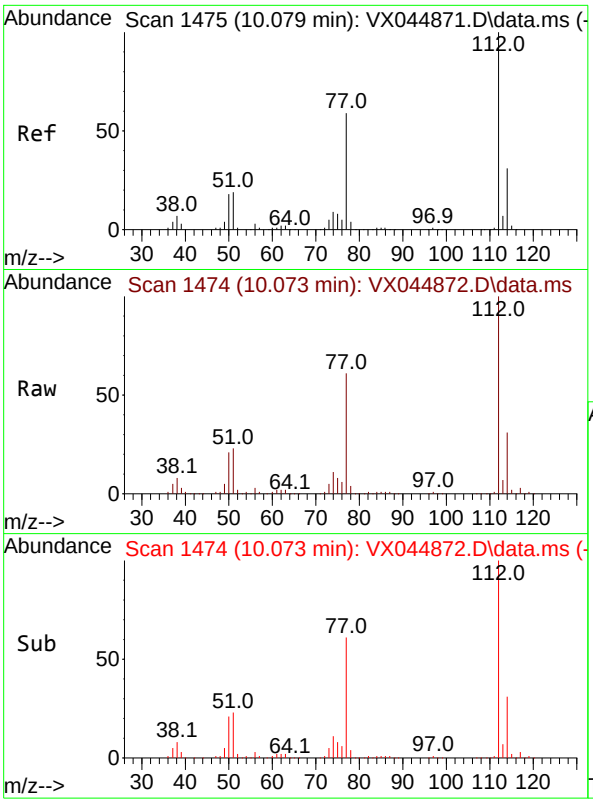


#64
Tetrachloroethene
Concen: 97.447 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:164 Resp: 125294

Ion	Ratio	Lower	Upper
164	100		
166	125.6	100.4	150.6
129	98.6	79.9	119.9
131	94.8	75.9	113.9



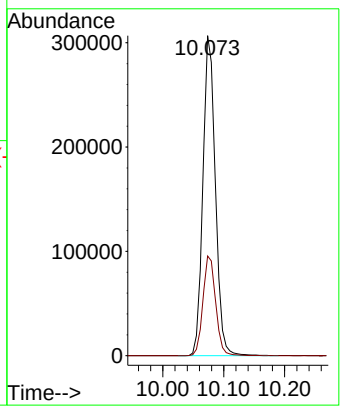


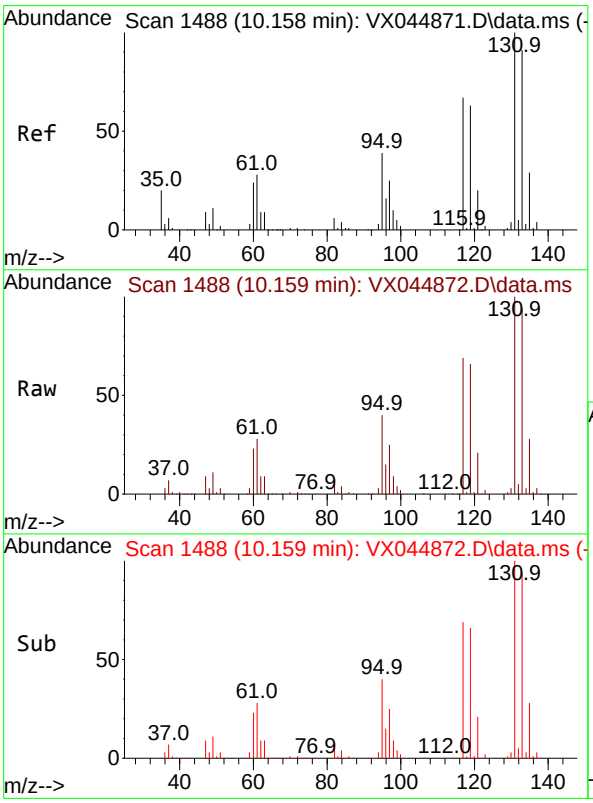
#65
Chlorobenzene
Concen: 99.694 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 436565

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.6

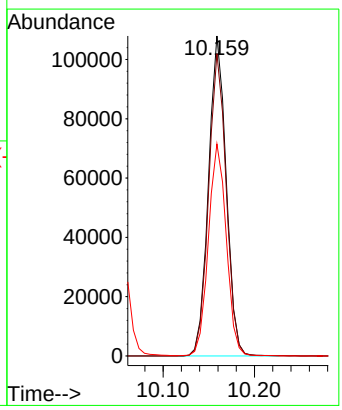


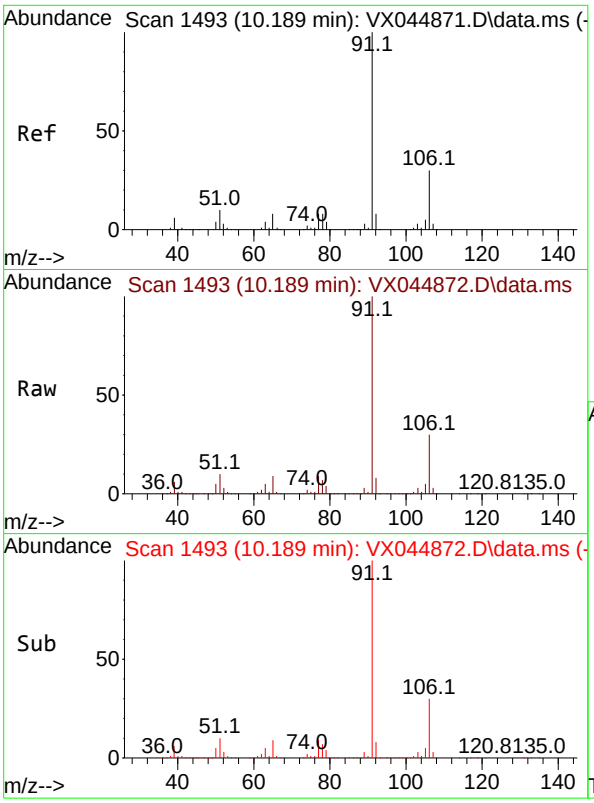


#66
1,1,1,2-Tetrachloroethane
Concen: 102.728 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:131 Resp: 144793

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.1	141.3
119	67.2	33.6	100.6



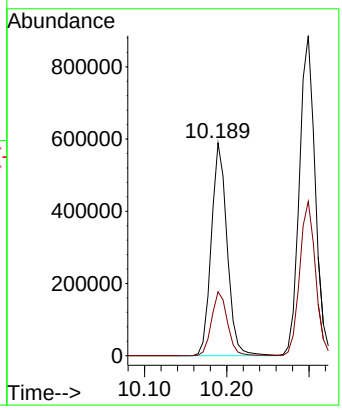


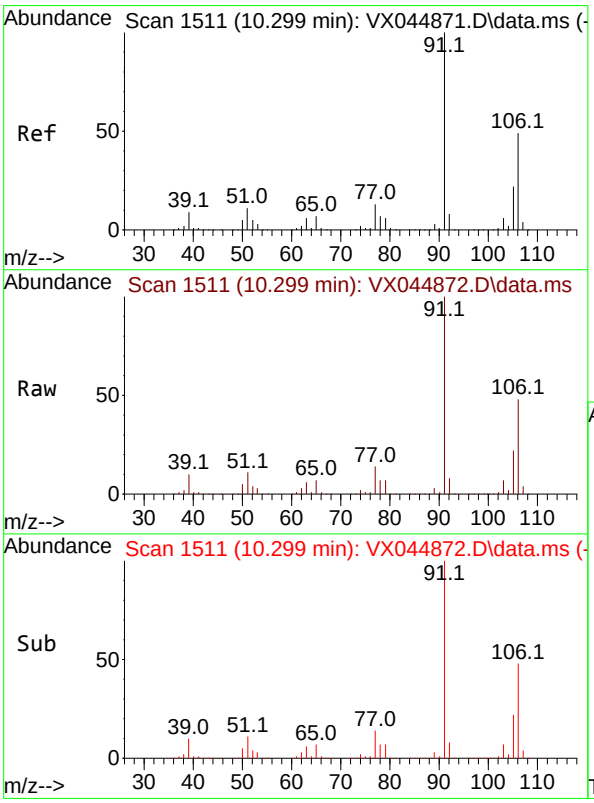
#67
Ethyl Benzene
Concen: 101.477 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 784184

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

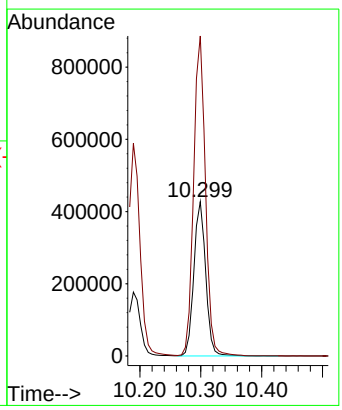


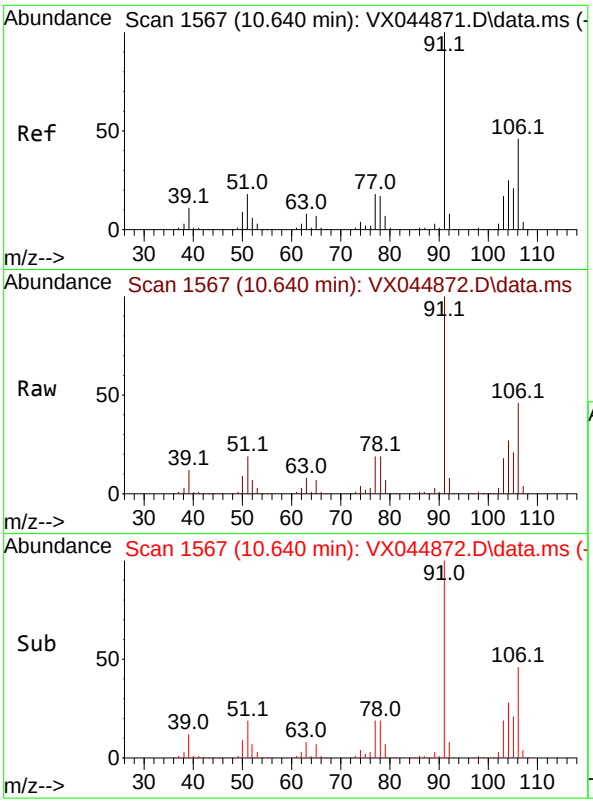


#68
m/p-Xylenes
Concen: 201.907 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:106 Resp: 575559

Ion	Ratio	Lower	Upper
106	100		
91	207.1	164.3	246.5



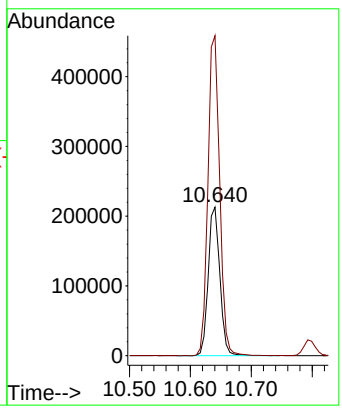


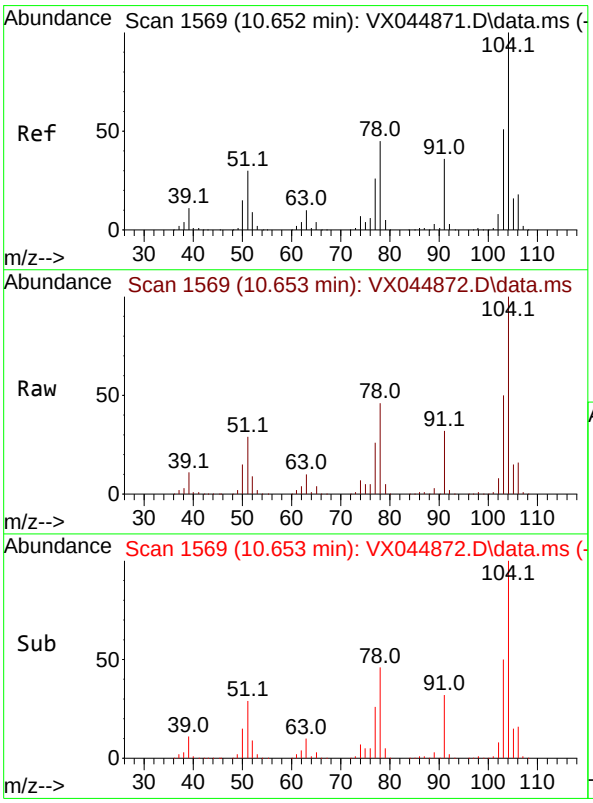
#69
o-Xylene
Concen: 98.530 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 281830

Ion	Ratio	Lower	Upper
106	100		
91	217.3	108.5	325.5

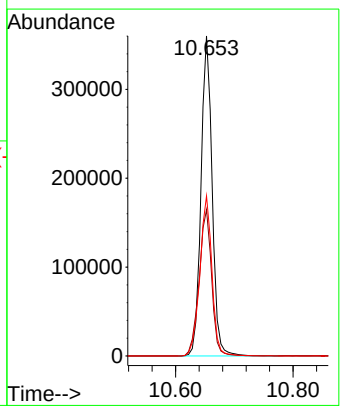


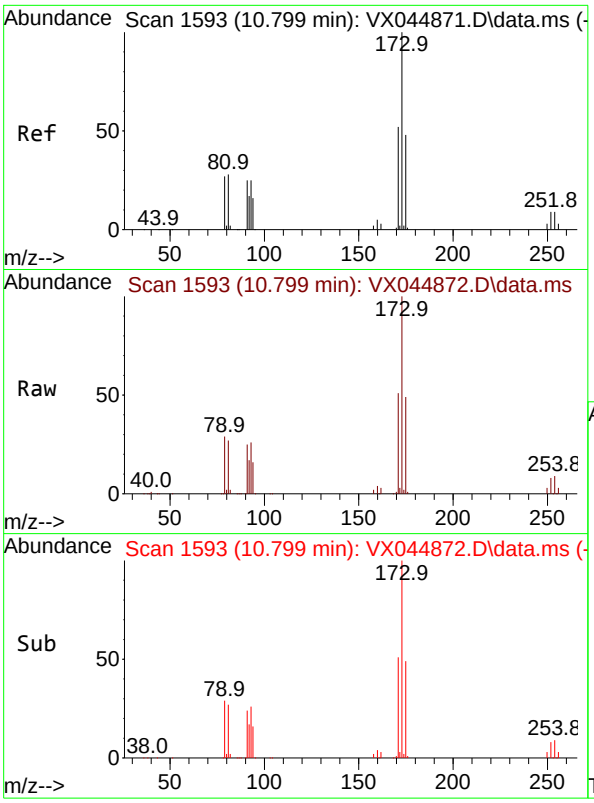


#70
Styrene
Concen: 102.728 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:104 Resp: 473403

Ion	Ratio	Lower	Upper
104	100		
78	51.5	40.5	60.7
103	54.5	43.6	65.4



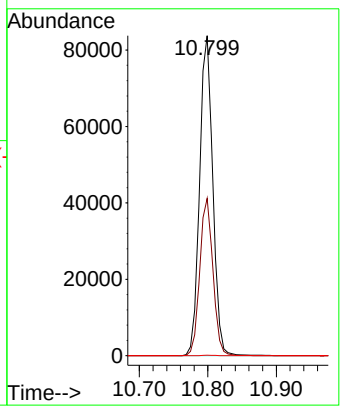


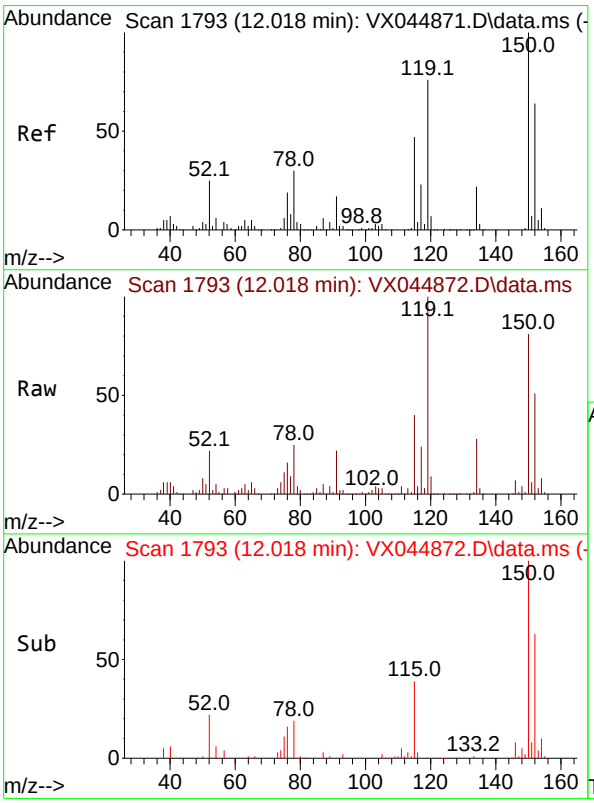
#71
Bromoform
Concen: 106.827 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 112371

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	72.8
254	0.1	0.0	0.0#

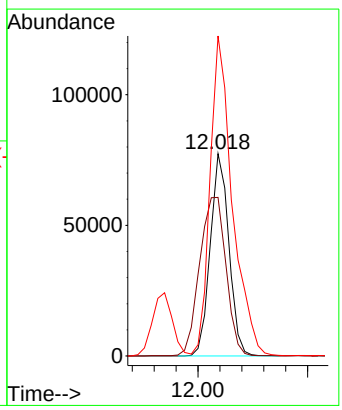


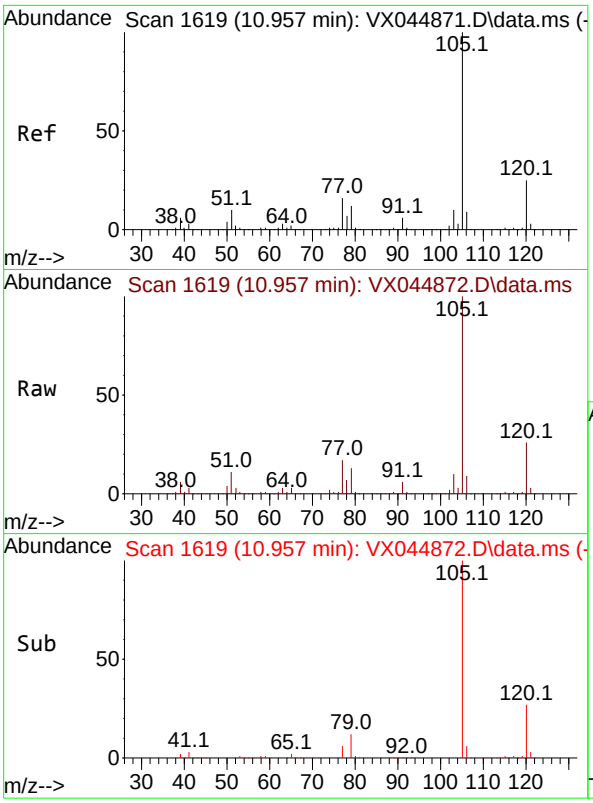


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:152 Resp: 91371

Ion	Ratio	Lower	Upper
152	100		
115	111.2	43.4	130.1
150	189.1	0.0	350.4



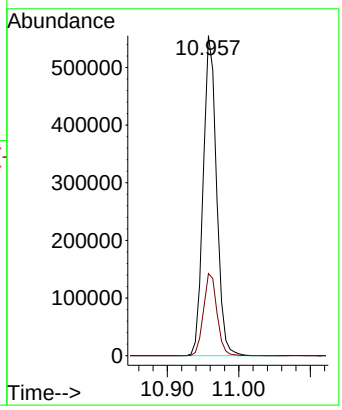


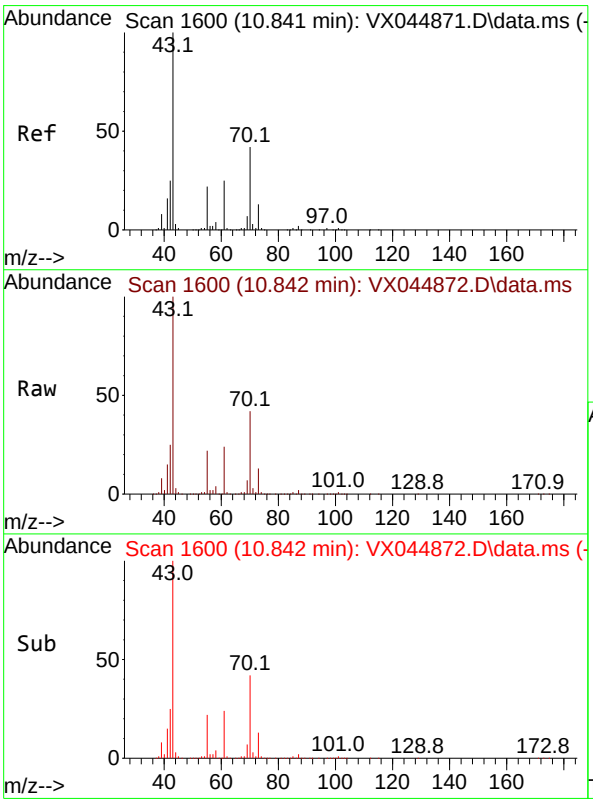
#73
Isopropylbenzene
Concen: 97.854 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 719923

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

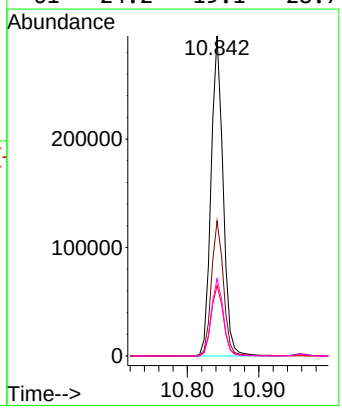


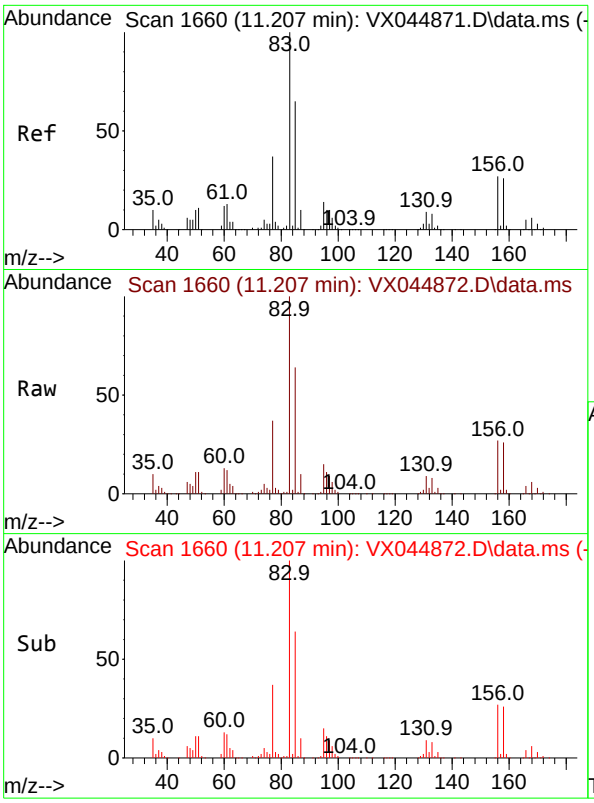


#74
N-amyl acetate
Concen: 103.687 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 43 Resp: 345193

Ion	Ratio	Lower	Upper
43	100		
70	42.4	33.7	50.5
55	22.6	18.6	27.8
61	24.2	19.1	28.7



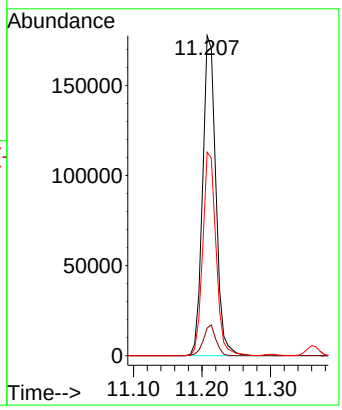


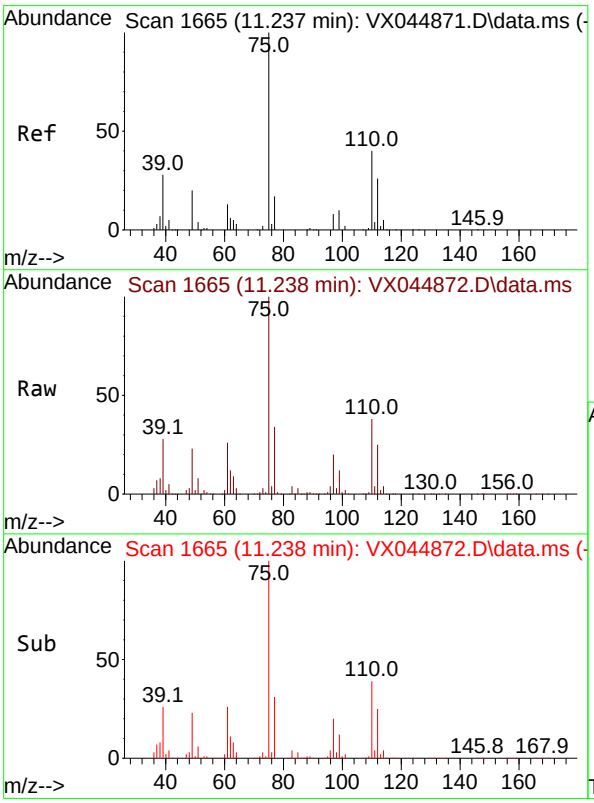
#75
1,1,2,2-Tetrachloroethane
Concen: 94.351 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 238529

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	63.9	32.3	96.8

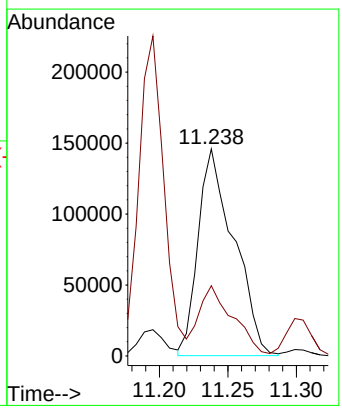


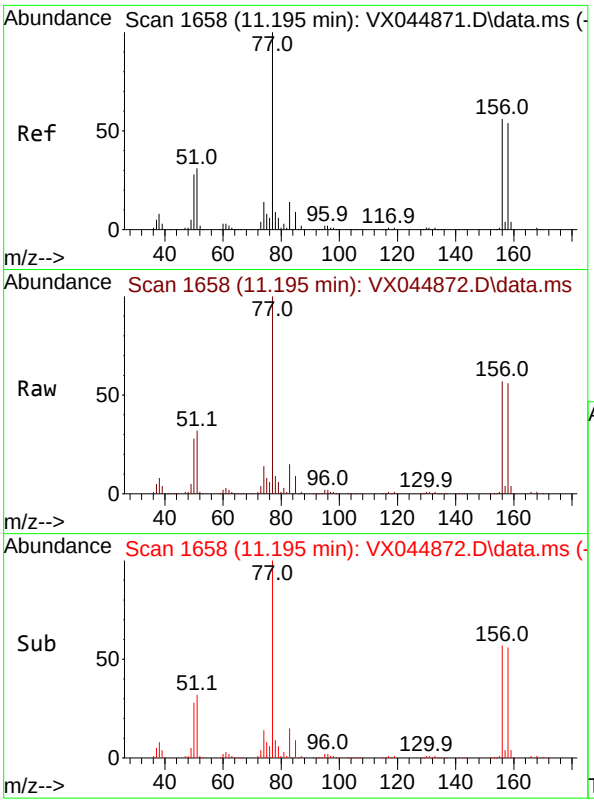


#76
1,2,3-Trichloropropane
Concen: 130.869 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 265118

Ion	Ratio	Lower	Upper
75	100		
77	32.5	21.9	65.7



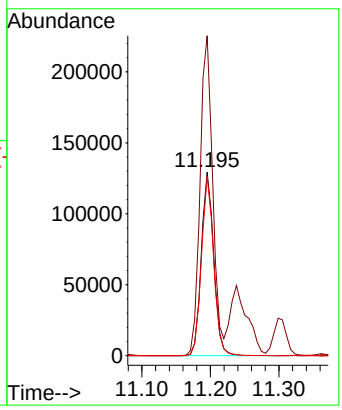


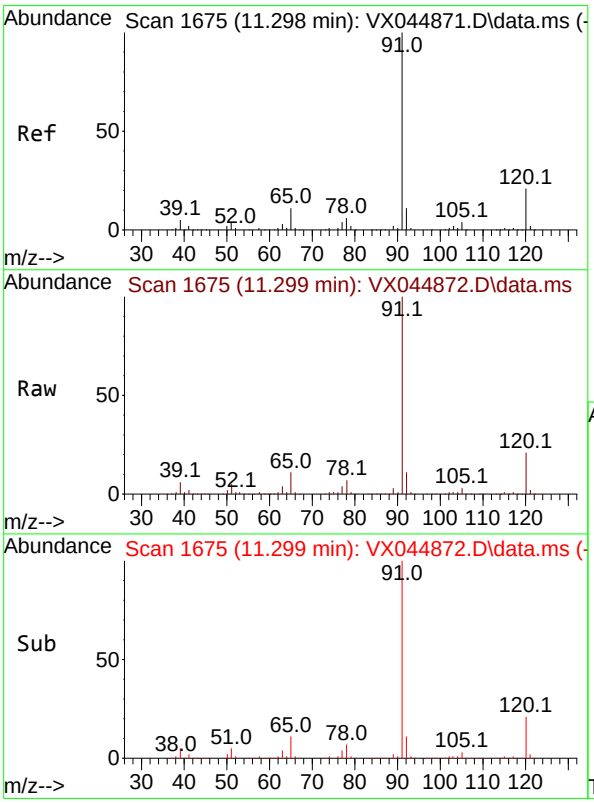
#77
Bromobenzene
Concen: 98.230 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 163845

Ion	Ratio	Lower	Upper
156	100		
77	176.7	88.4	265.3
158	95.7	48.4	145.2

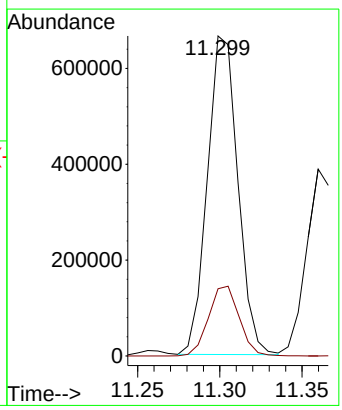


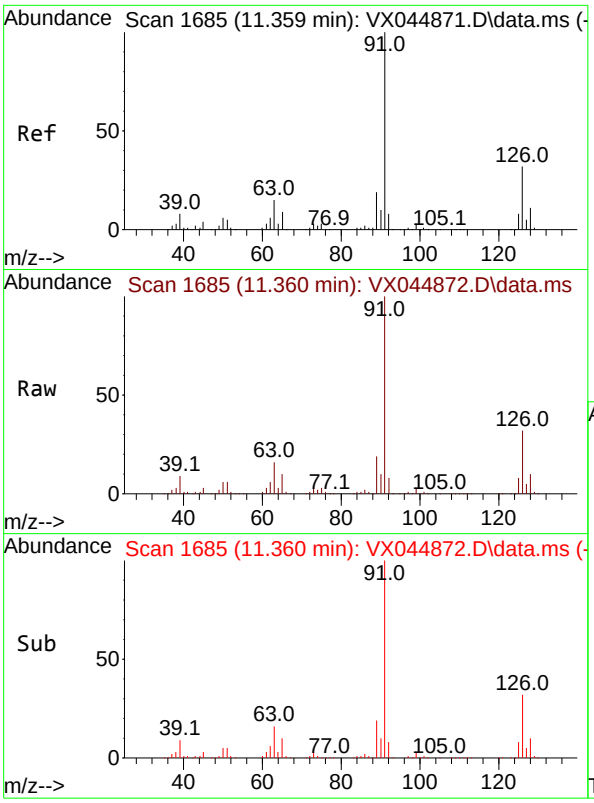


#78
n-propylbenzene
Concen: 101.132 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 858793

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3



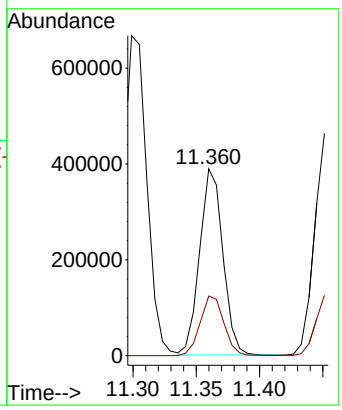


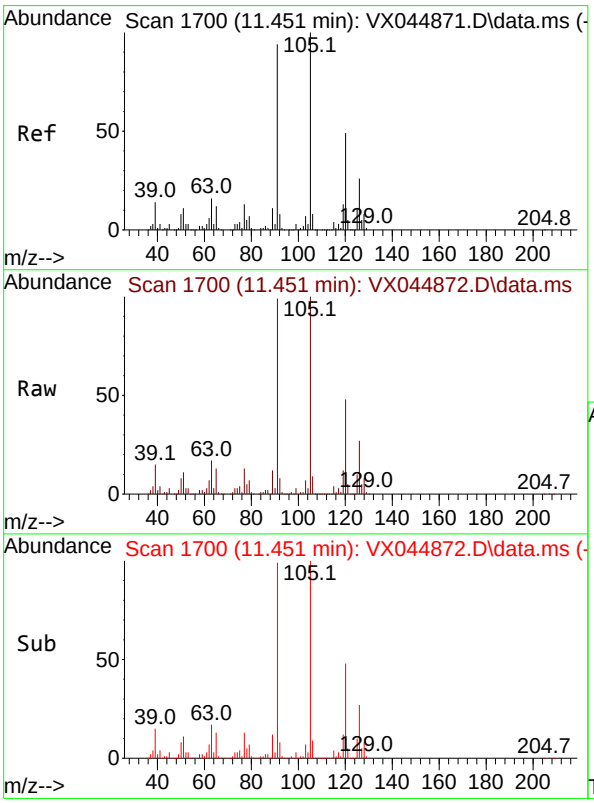
#79
2-Chlorotoluene
Concen: 95.257 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 497149

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.6

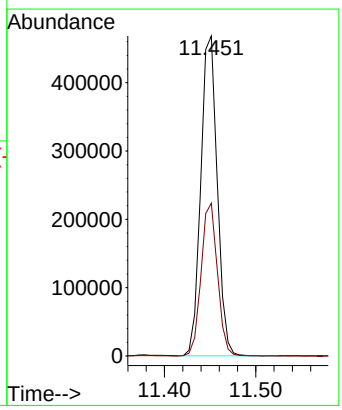


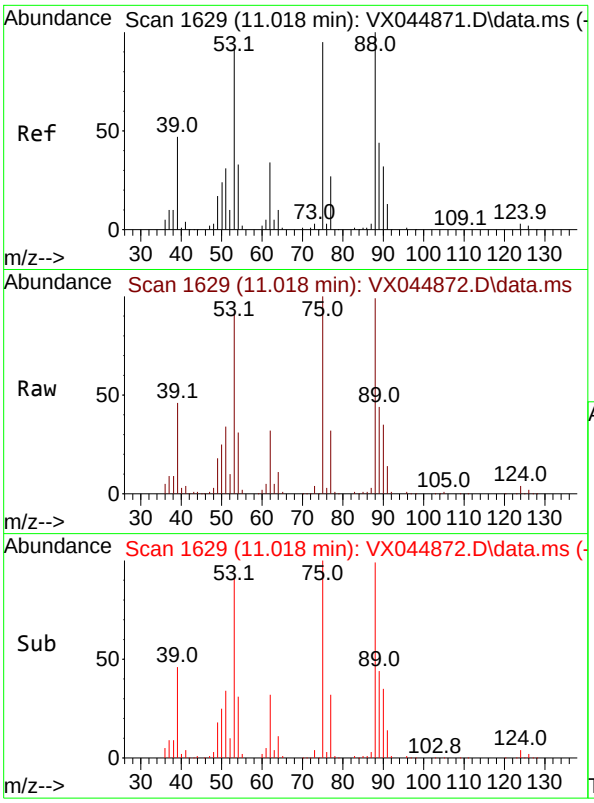


#80
1,3,5-Trimethylbenzene
Concen: 97.966 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 584885

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.0	72.0



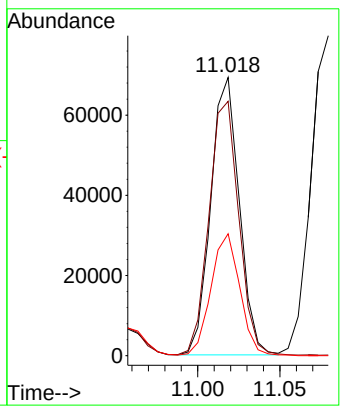


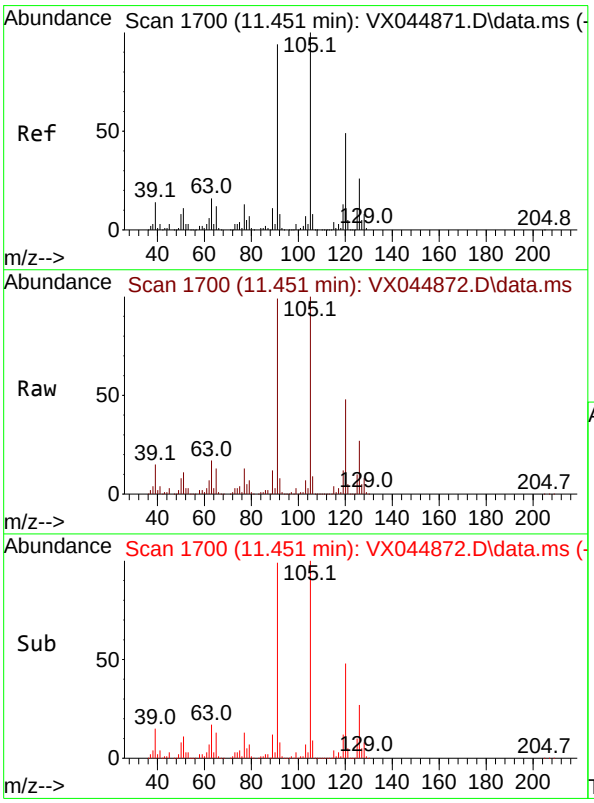
#81
trans-1,4-Dichloro-2-butene
Concen: 106.006 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 83483

Ion	Ratio	Lower	Upper
75	100		
53	95.9	78.0	117.0
89	44.6	36.6	54.8

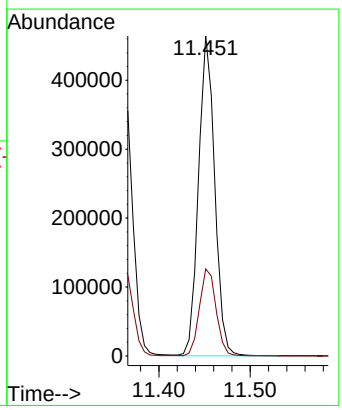


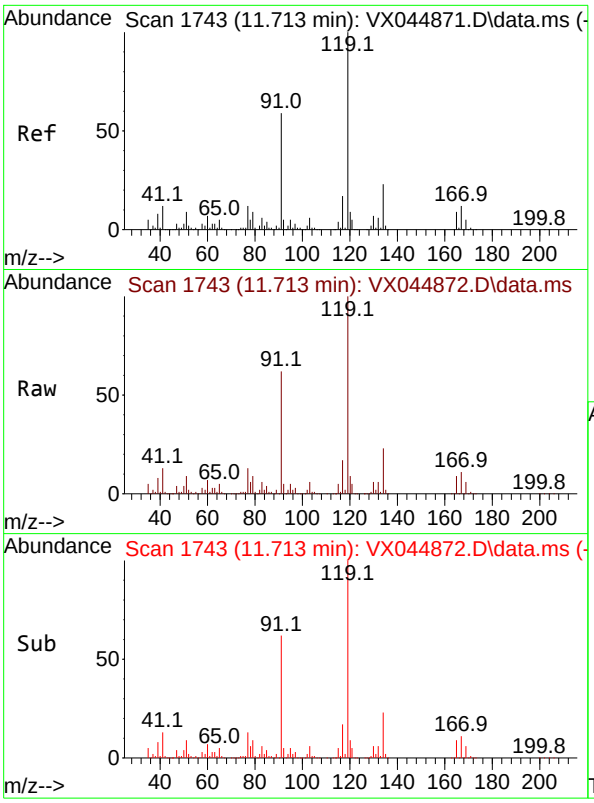


#82
4-Chlorotoluene
Concen: 98.634 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 91 Resp: 569510

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.2	42.6



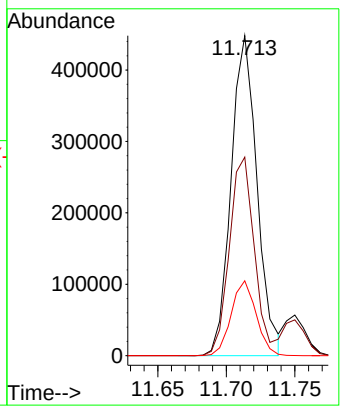


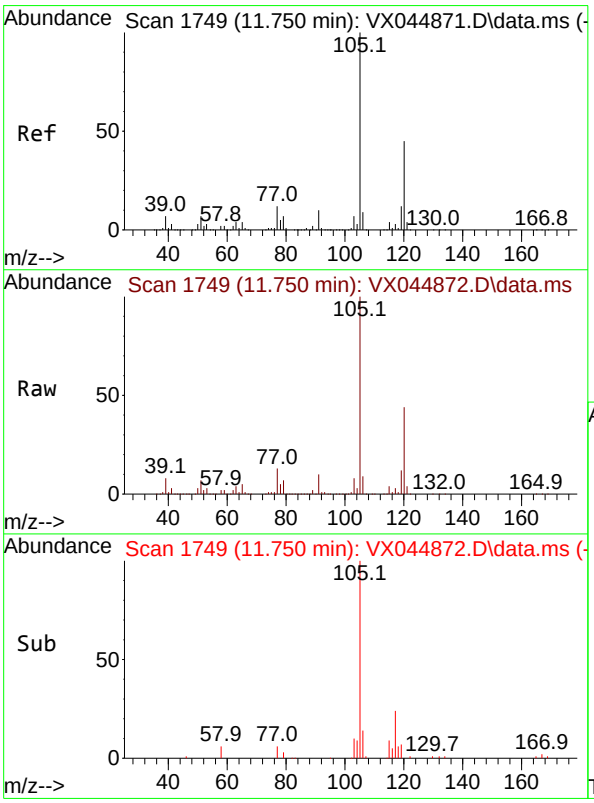
#83
tert-Butylbenzene
Concen: 97.917 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 591396

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.1	87.4
134	22.6	11.5	34.5

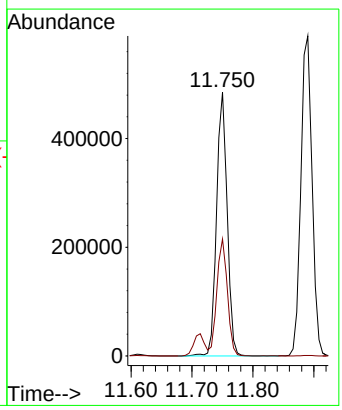


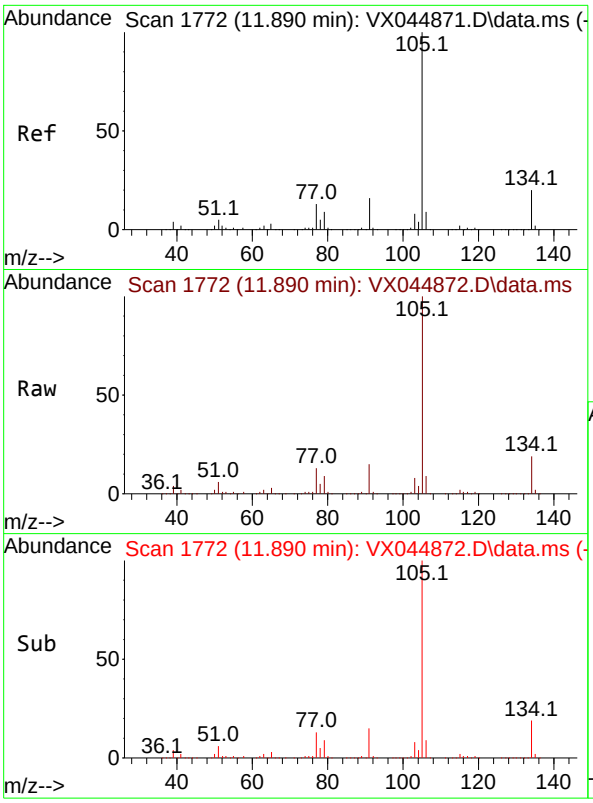


#84
1,2,4-Trimethylbenzene
Concen: 99.851 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:105 Resp: 588385

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.4	67.0



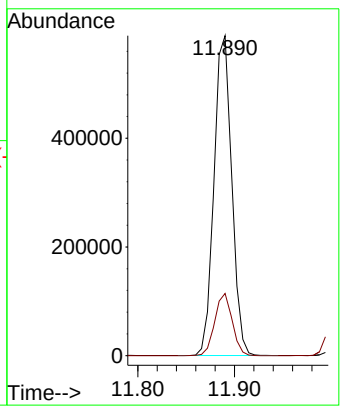


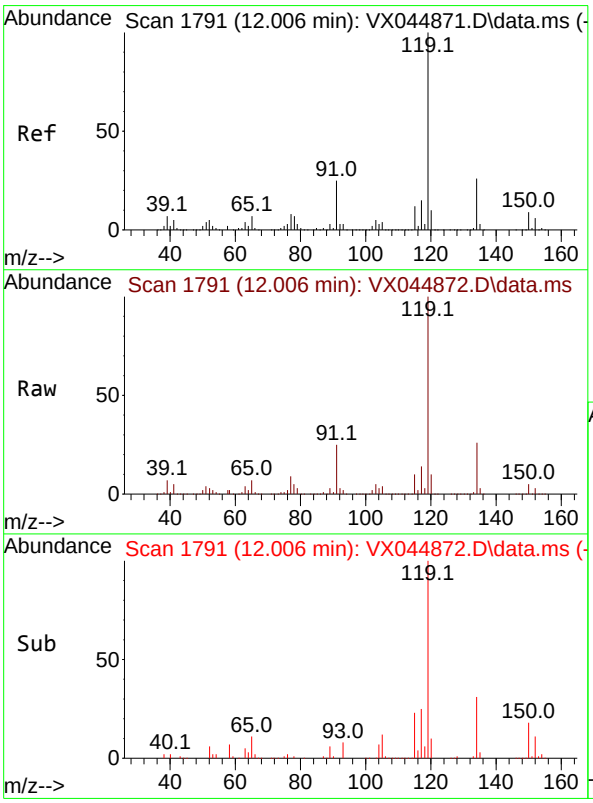
#85
sec-Butylbenzene
Concen: 100.219 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 749534

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.3

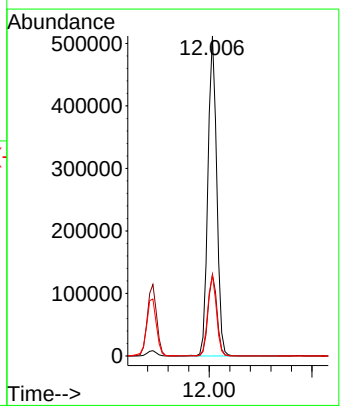


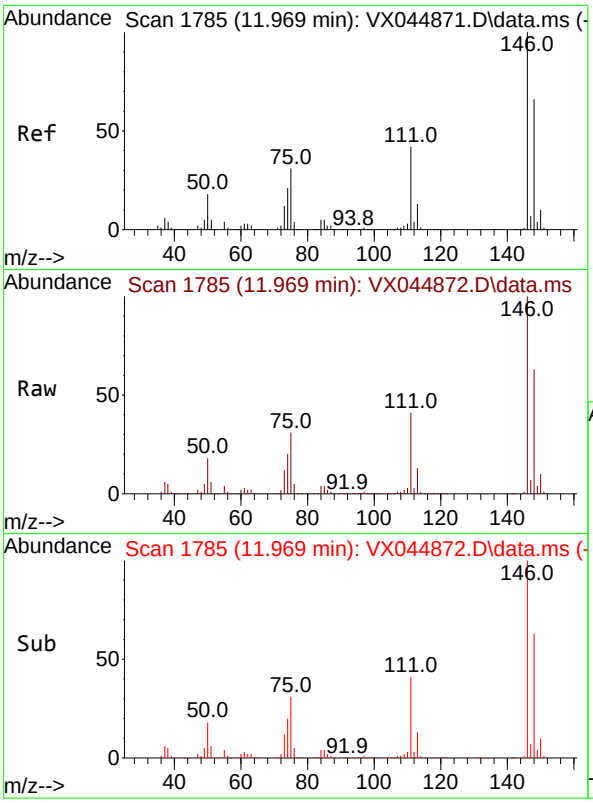


#86
p-Isopropyltoluene
Concen: 101.019 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:119 Resp: 607577

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	38.9
91	25.0	12.1	36.3



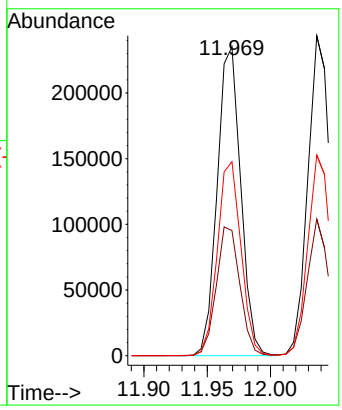


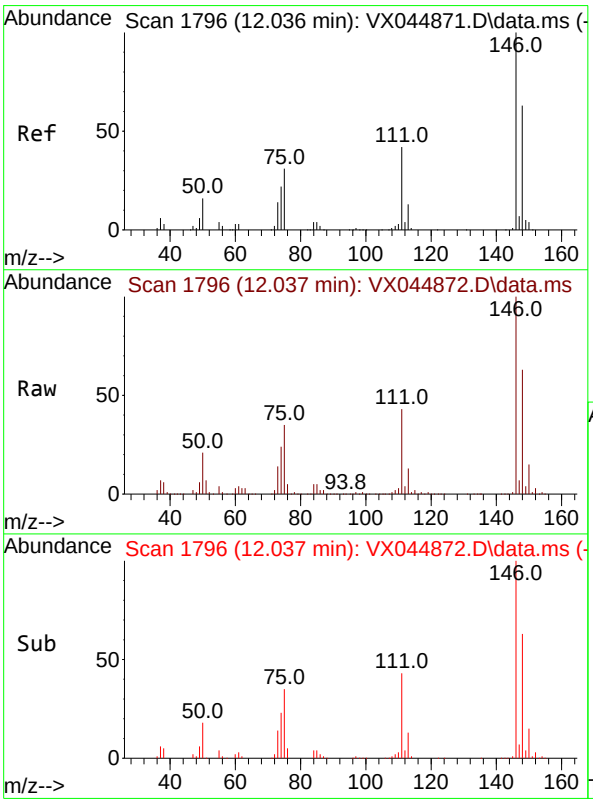
#87
1,3-Dichlorobenzene
Concen: 99.061 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 303851

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	63.1	32.5	97.5

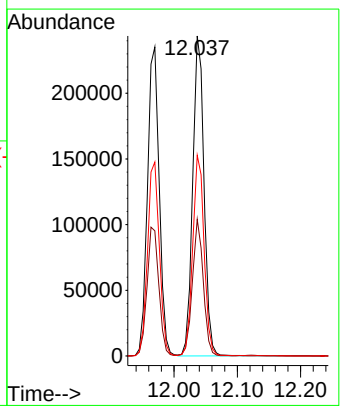


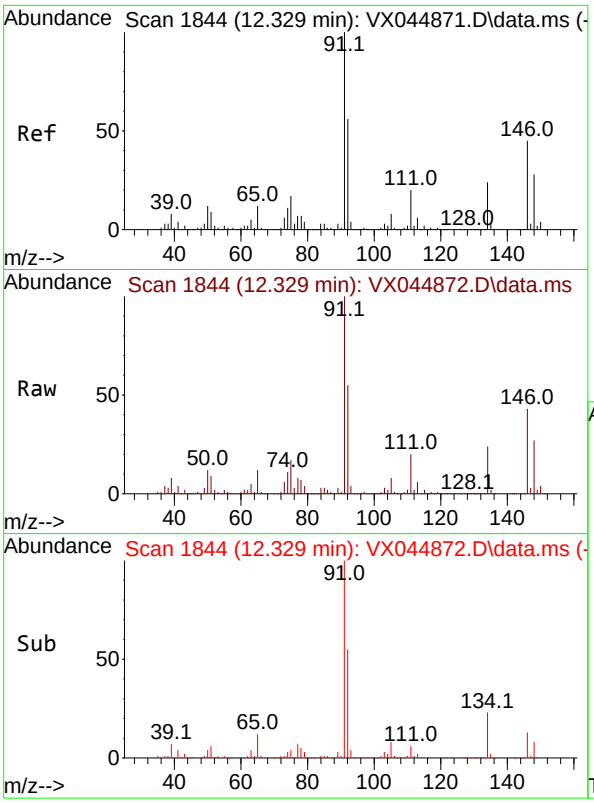


#88
1,4-Dichlorobenzene
Concen: 97.830 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:146 Resp: 303417

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.4	61.3
148	63.0	32.0	96.0



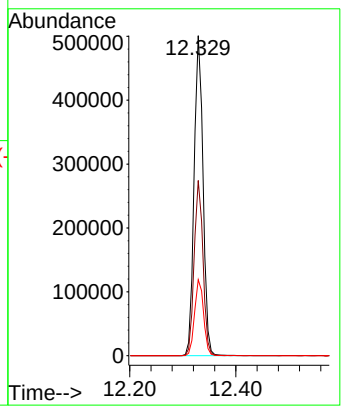


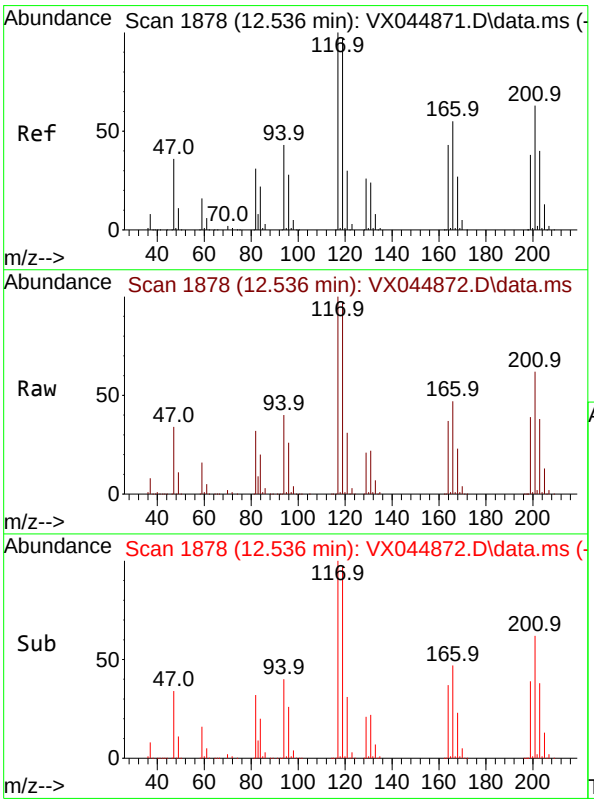
#89
n-Butylbenzene
Concen: 109.686 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 583634

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.0	12.1	36.3

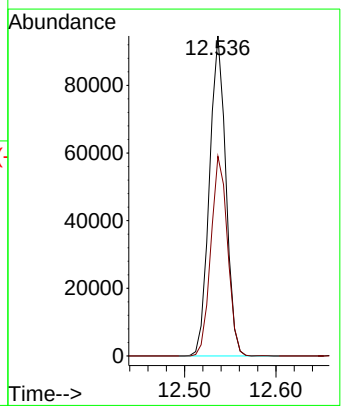


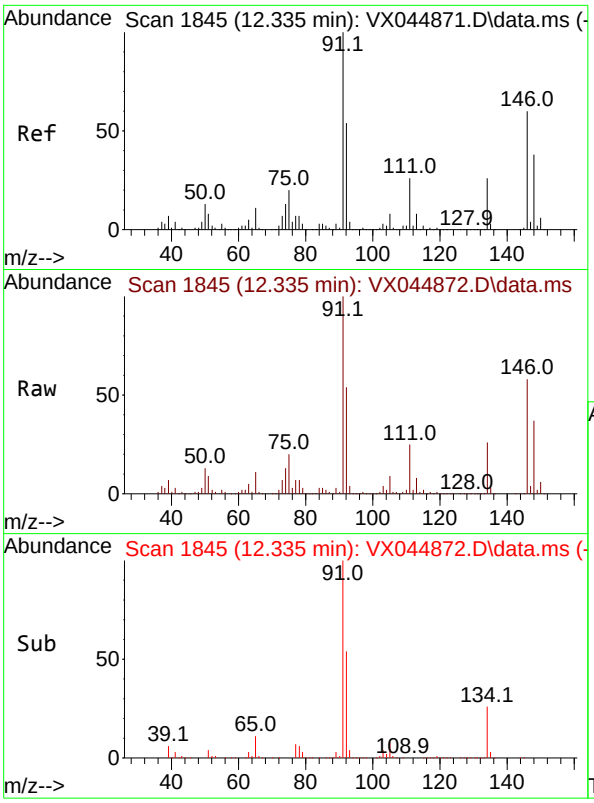


#90
Hexachloroethane
Concen: 104.365 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:117 Resp: 117533

Ion	Ratio	Lower	Upper
117	100		
201	63.4	32.5	97.5



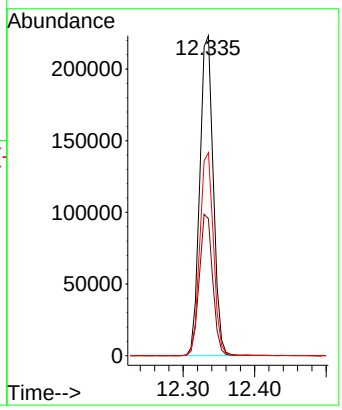


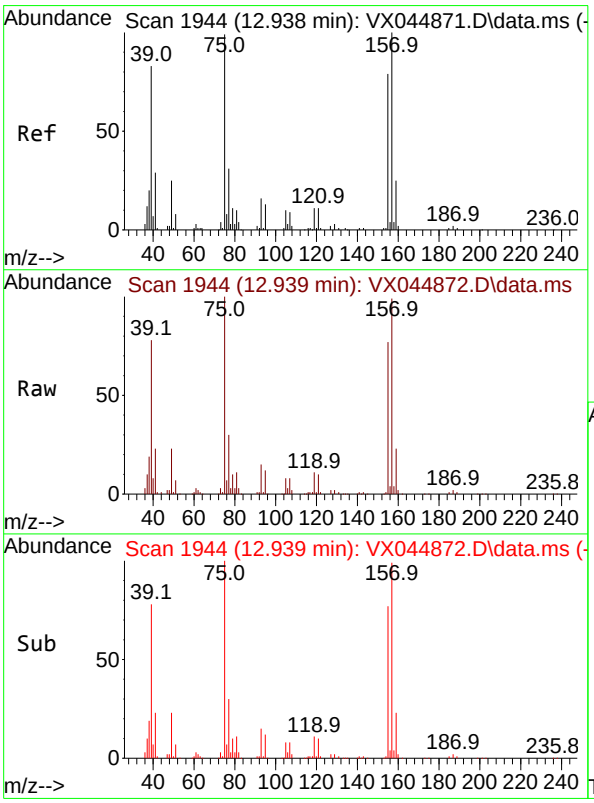
#91
1,2-Dichlorobenzene
Concen: 97.244 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 293151

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.8	65.4
148	63.9	31.9	95.9

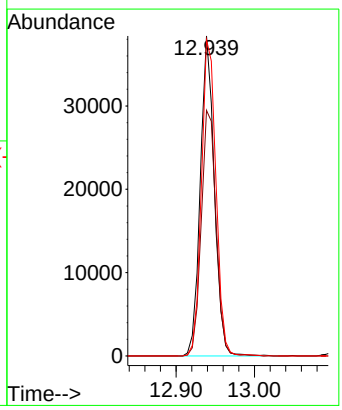


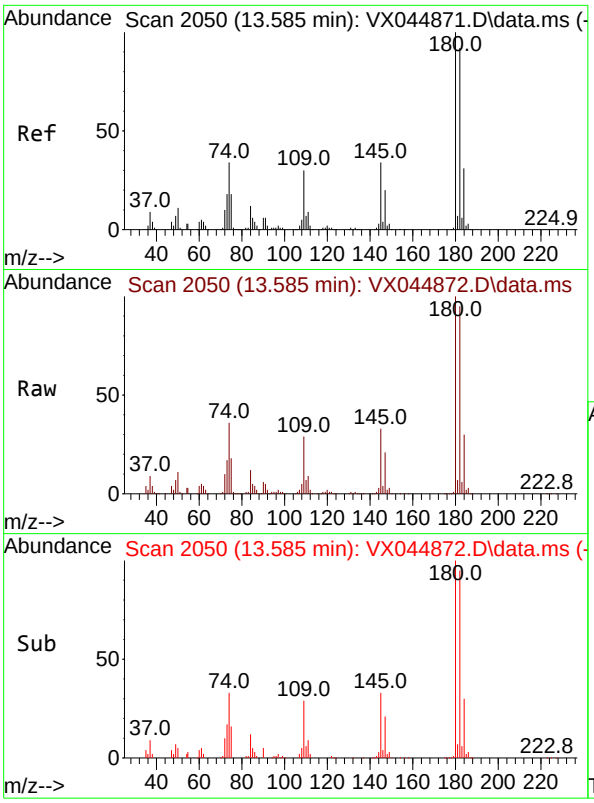


#92
1,2-Dibromo-3-Chloropropane
Concen: 103.477 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion: 75 Resp: 47745

Ion	Ratio	Lower	Upper
75	100		
155	81.0	40.5	121.4
157	102.3	51.4	154.3



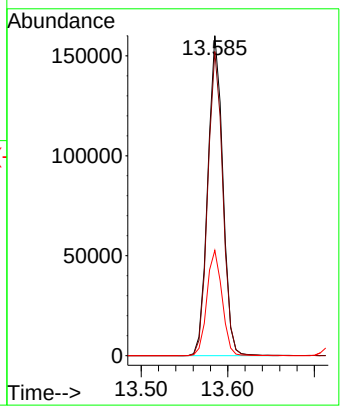


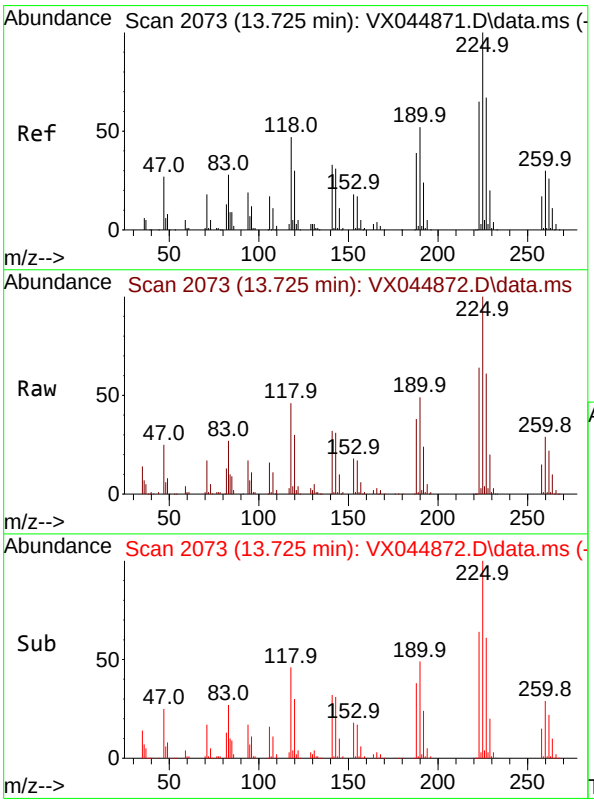
#93
1,2,4-Trichlorobenzene
Concen: 105.921 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 193214

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.6	142.8
145	33.2	16.4	49.1

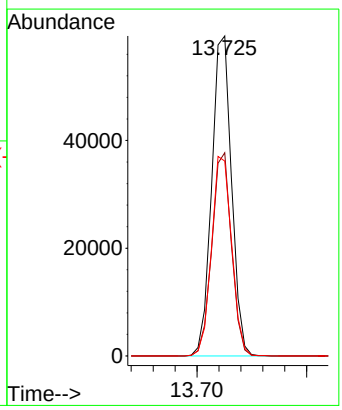


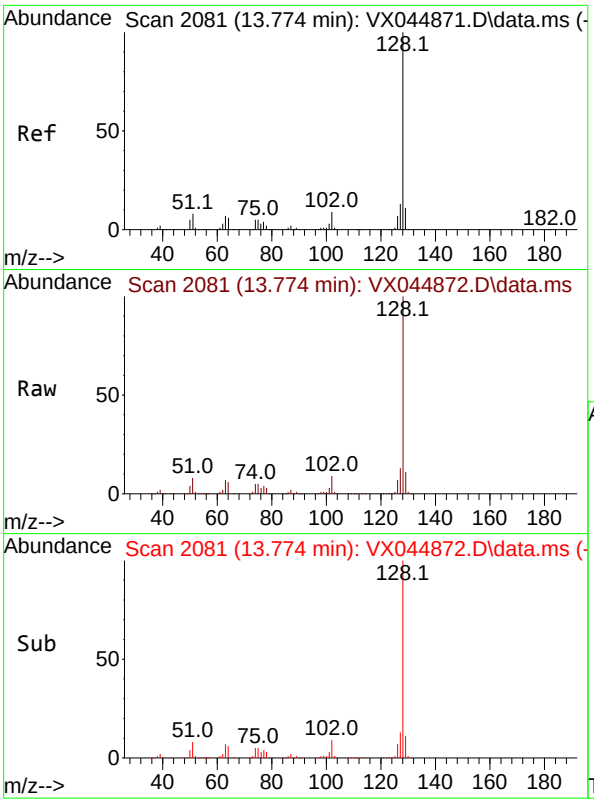


#94
Hexachlorobutadiene
Concen: 103.024 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:225 Resp: 74605

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.2
227	63.5	32.3	96.8



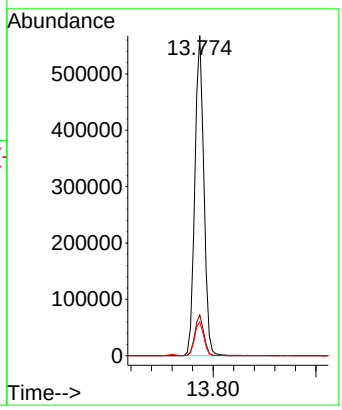


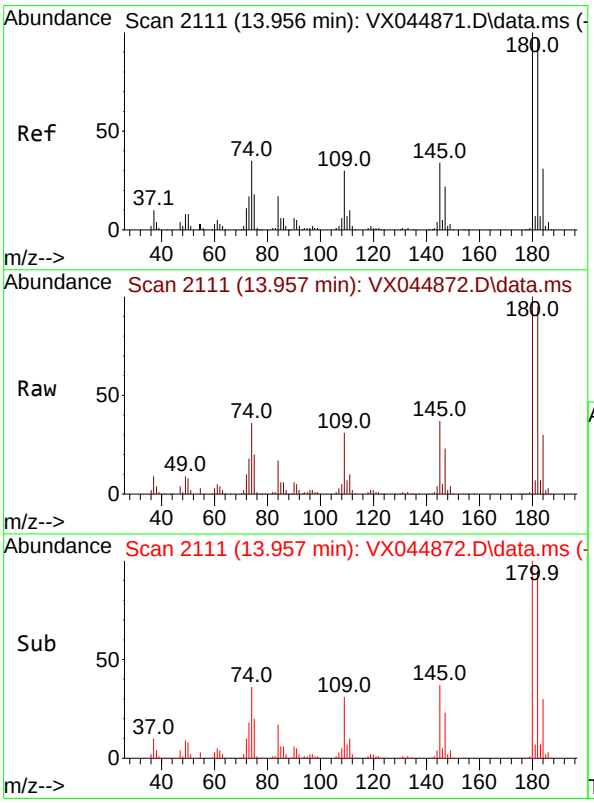
#95
Naphthalene
Concen: 104.505 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 689104

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.7	8.9	13.3

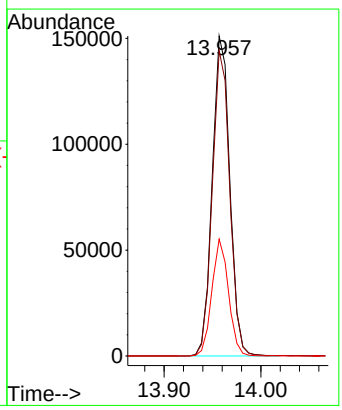




#96
1,2,3-Trichlorobenzene
Concen: 103.659 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044872.D
Acq: 10 Feb 2025 12:05

Tgt Ion:180 Resp: 190534

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.6
145	34.6	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	125253	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	232597	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	196663	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	84836	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	280853	153.180	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 306.360%#			
35) Dibromofluoromethane	5.379	113	229218	151.572	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 303.140%#			
50) Toluene-d8	8.647	98	845632	147.877	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 295.760%#			
62) 4-Bromofluorobenzene	11.079	95	287486	149.124	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 298.240%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	260576	148.330	ug/l	96
3) Chloromethane	1.307	50	297968	139.361	ug/l	100
4) Vinyl Chloride	1.374	62	305986	147.723	ug/l	99
5) Bromomethane	1.593	94	92399	149.071	ug/l	96
6) Chloroethane	1.660	64	67889	130.289	ug/l	97
7) Trichlorofluoromethane	1.867	101	378664	144.558	ug/l	99
8) Diethyl Ether	2.136	74	140428	147.822	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	239215	151.147	ug/l	100
10) Methyl Iodide	2.441	142	305390	148.887	ug/l	100
11) Tert butyl alcohol	3.020	59	242430	712.734	ug/l	100
12) 1,1-Dichloroethene	2.306	96	246987	152.989	ug/l	99
13) Acrolein	2.239	56	273178	778.418	ug/l	100
14) Allyl chloride	2.654	41	438493	150.289	ug/l	97
15) Acrylonitrile	3.068	53	684234	753.423	ug/l	99
16) Acetone	2.386	43	547939	743.398	ug/l	99
17) Carbon Disulfide	2.502	76	693558	156.665	ug/l	100
18) Methyl Acetate	2.703	43	373877	160.743	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	792810	154.347	ug/l	100
20) Methylene Chloride	2.782	84	270575	149.871	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	242082	152.356	ug/l	93
22) Diisopropyl ether	3.757	45	839126	152.020	ug/l	98
23) Vinyl Acetate	3.721	43	3555031	789.993	ug/l	100
24) 1,1-Dichloroethane	3.605	63	472424	152.959	ug/l	99
25) 2-Butanone	4.556	43	914741	764.276	ug/l	98
26) 2,2-Dichloropropane	4.471	77	382167	156.029	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	292864	153.446	ug/l	99
28) Bromochloromethane	4.891	49	217387	146.458	ug/l	98
29) Tetrahydrofuran	5.001	42	596045	749.977	ug/l	99
30) Chloroform	5.086	83	453809	151.509	ug/l	99
31) Cyclohexane	5.458	56	423464	148.722	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	386162	151.996	ug/l	99
36) 1,1-Dichloropropene	5.684	75	324182	148.585	ug/l	100
37) Ethyl Acetate	4.715	43	368763	151.956	ug/l	99
38) Carbon Tetrachloride	5.672	117	320536	149.921	ug/l	98
39) Methylcyclohexane	7.373	83	443218	157.130	ug/l	99
40) Benzene	6.031	78	1014129	148.856	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	206155	158.707	ug/l		100
42) 1,2-Dichloroethane	6.080	62	336520	154.984	ug/l		99
43) Isopropyl Acetate	6.336	43	617516	157.575	ug/l		99
44) Trichloroethene	7.117	130	239030	153.496	ug/l		99
45) 1,2-Dichloropropane	7.427	63	259454	153.076	ug/l		100
46) Dibromomethane	7.574	93	179689	152.870	ug/l		99
47) Bromodichloromethane	7.818	83	357623	157.128	ug/l		98
48) Methyl methacrylate	7.690	41	297931	161.236	ug/l		99
49) 1,4-Dioxane	7.665	88	106175	2678.192	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	1736538	728.887	ug/l		100
52) Toluene	8.714	92	603113	148.645	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	378639	164.398	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	417724	162.667	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	229548	147.172	ug/l		98
56) Ethyl methacrylate	9.116	69	398535	158.205	ug/l		99
57) 1,3-Dichloropropane	9.305	76	403665	147.915	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	982120	794.010	ug/l		100
59) 2-Hexanone	9.433	43	1264470	736.622	ug/l		99
60) Dibromochloromethane	9.519	129	258320	154.862	ug/l		99
61) 1,2-Dibromoethane	9.604	107	240539	152.157	ug/l		99
64) Tetrachloroethene	9.269	164	184990	149.155	ug/l		96
65) Chlorobenzene	10.073	112	634550	150.224	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	212441	156.255	ug/l		99
67) Ethyl Benzene	10.189	91	1137842	152.647	ug/l		100
68) m/p-Xylenes	10.299	106	818971	297.841	ug/l		98
69) o-Xylene	10.640	106	401928	145.674	ug/l		99
70) Styrene	10.653	104	671843	151.140	ug/l		98
71) Bromoform	10.799	173	169481	167.033	ug/l	#	98
73) Isopropylbenzene	10.957	105	1037402	151.869	ug/l		99
74) N-amyl acetate	10.841	43	521962	168.861	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	346013	147.409	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	392008	208.411	ug/l		82
77) Bromobenzene	11.195	156	234957	151.715	ug/l		99
78) n-propylbenzene	11.305	91	1231079	156.140	ug/l		99
79) 2-Chlorotoluene	11.360	91	717766	148.123	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	822707	148.415	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	126660	173.221	ug/l		98
82) 4-Chlorotoluene	11.451	91	818099	152.602	ug/l		99
83) tert-Butylbenzene	11.713	119	838979	149.610	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	838584	153.274	ug/l		99
85) sec-Butylbenzene	11.890	105	1061101	152.806	ug/l		100
86) p-Isopropyltoluene	12.006	119	865491	154.987	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	433384	152.175	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	432987	150.362	ug/l		100
89) n-Butylbenzene	12.329	91	827359	167.469	ug/l		100
90) Hexachloroethane	12.536	117	175414	167.760	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	417167	149.042	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	73593	171.783	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	283004	167.095	ug/l		98
94) Hexachlorobutadiene	13.725	225	104674	155.682	ug/l		97
95) Naphthalene	13.774	128	1015801	165.916	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	282289	165.408	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration

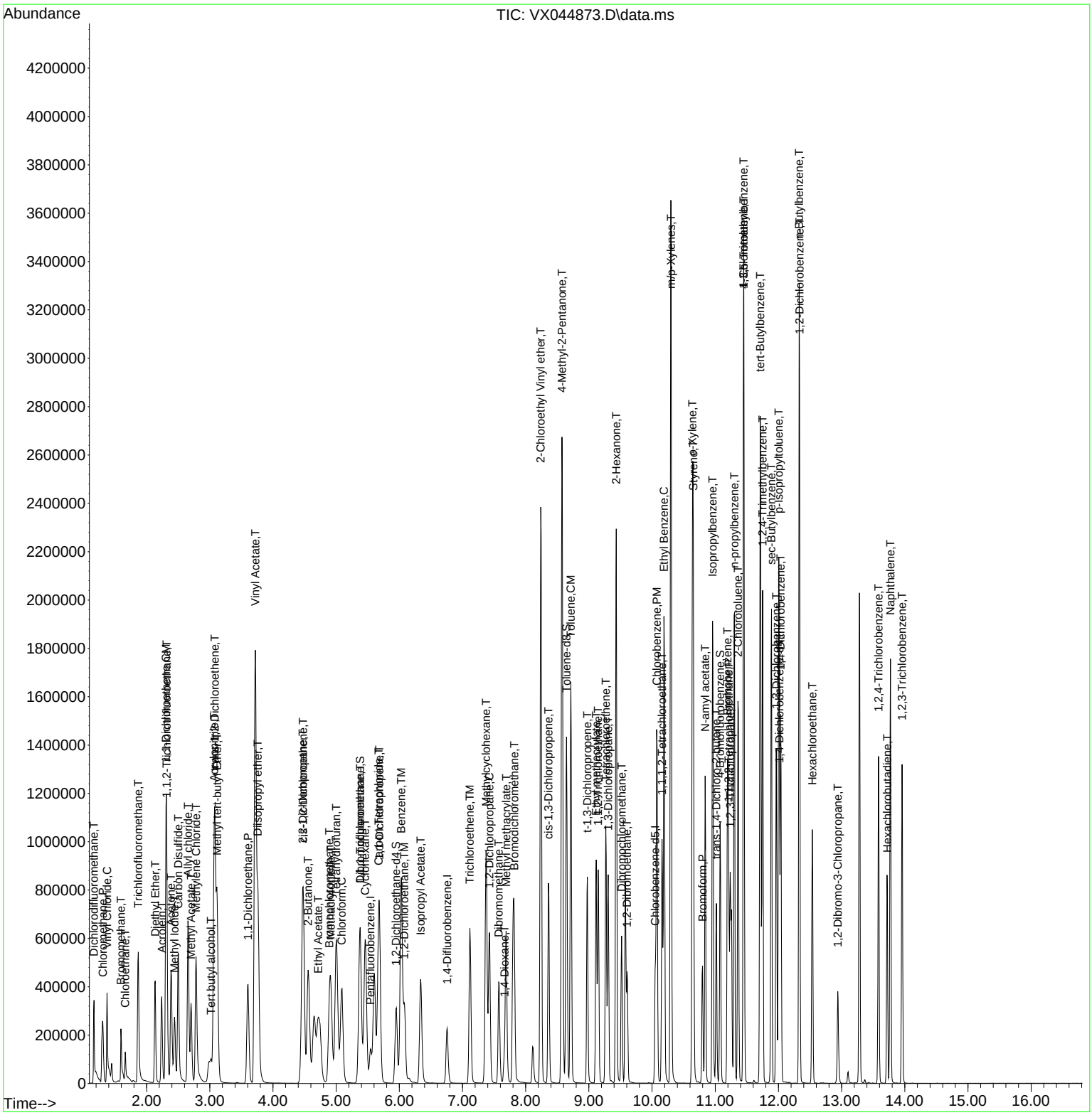
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

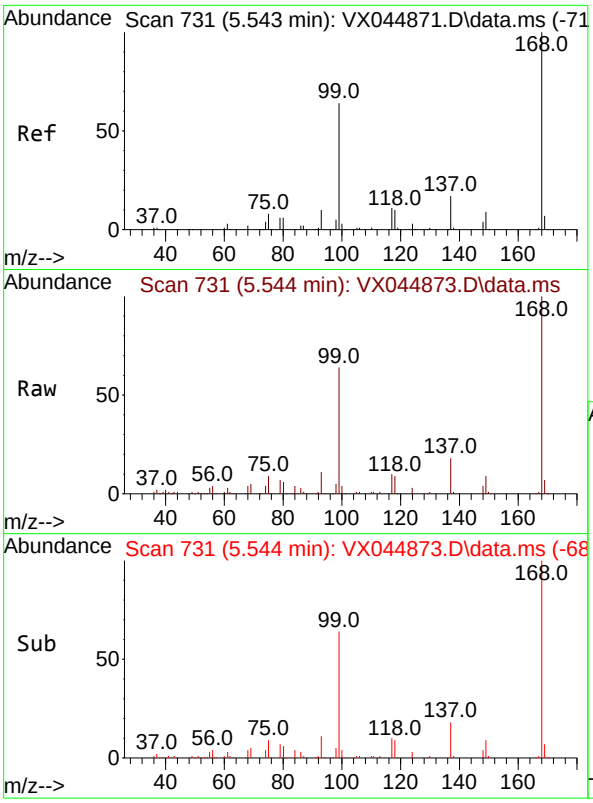
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044873.D
Acq On : 10 Feb 2025 12:28
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Feb 11 02:02:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 01:47:50 2025
Response via : Initial Calibration



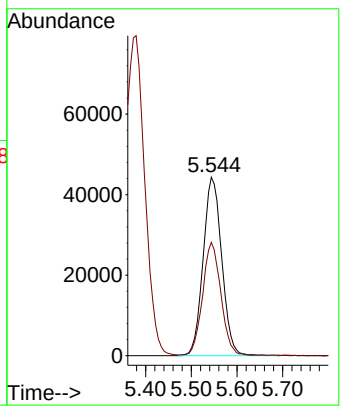


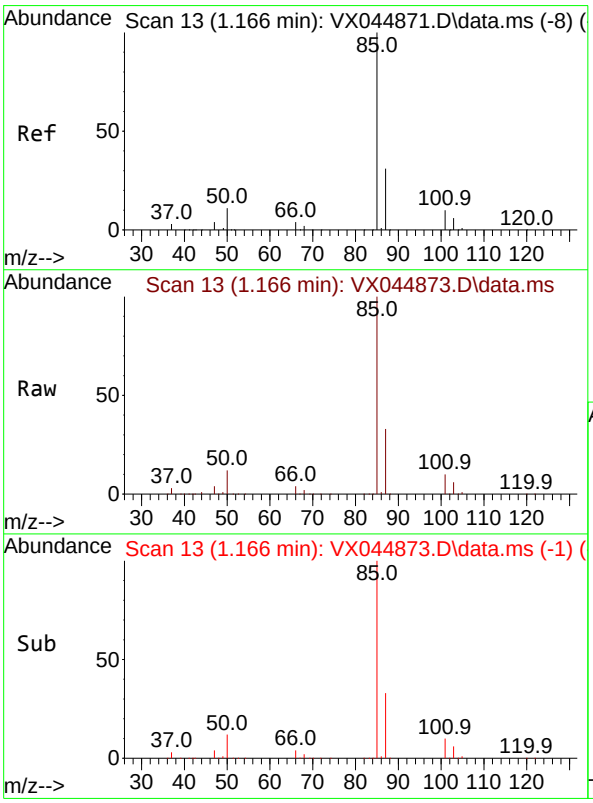
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 125253

Ion	Ratio	Lower	Upper
168	100		
99	63.2	51.2	76.8

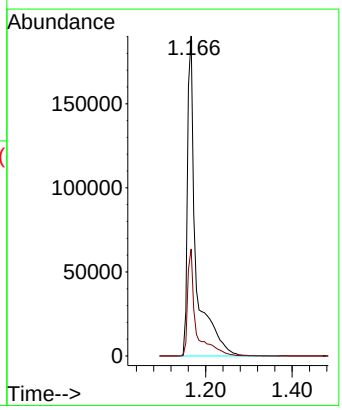


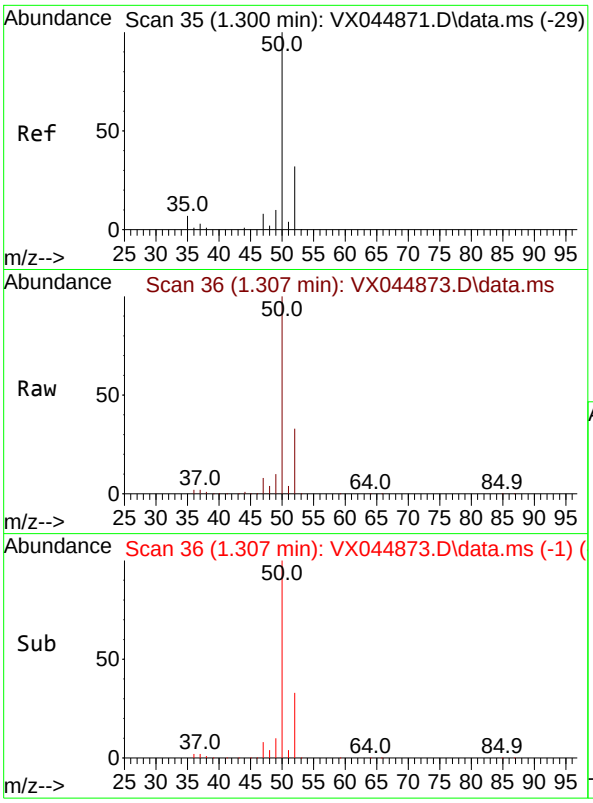


#2
Dichlorodifluoromethane
Concen: 148.330 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 85 Resp: 260576

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.8	47.3



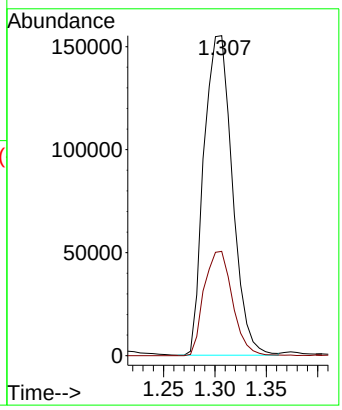


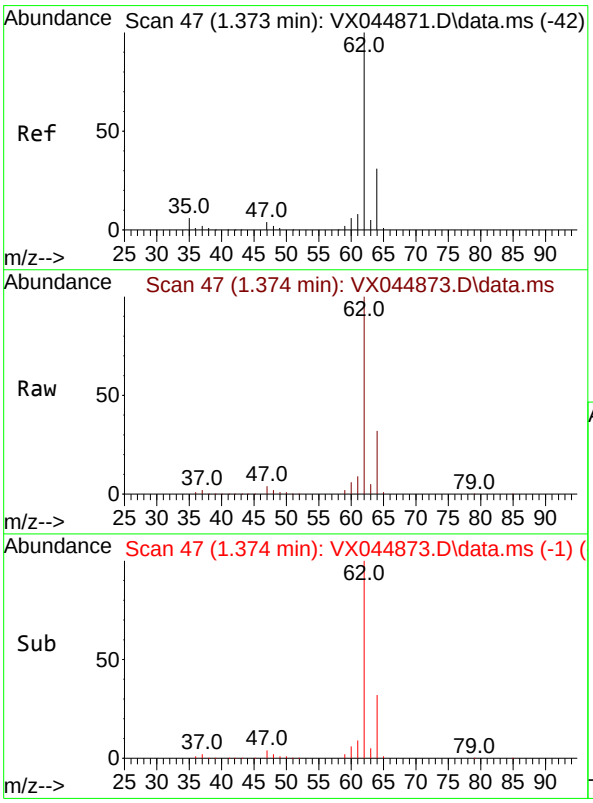
#3
Chloromethane
Concen: 139.361 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 297968

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.9	38.9

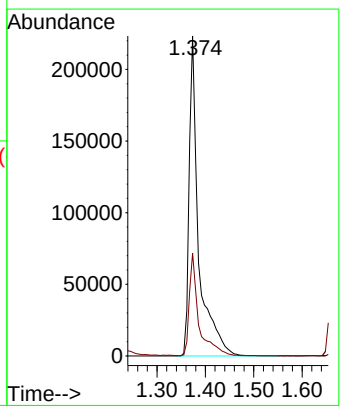


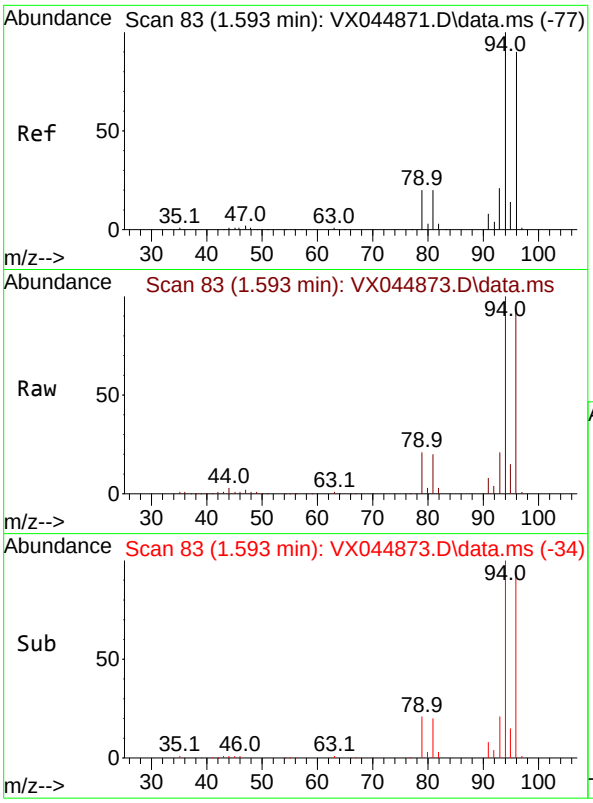


#4
Vinyl Chloride
Concen: 147.723 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 305986

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.0



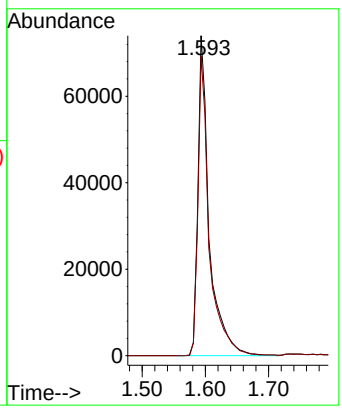


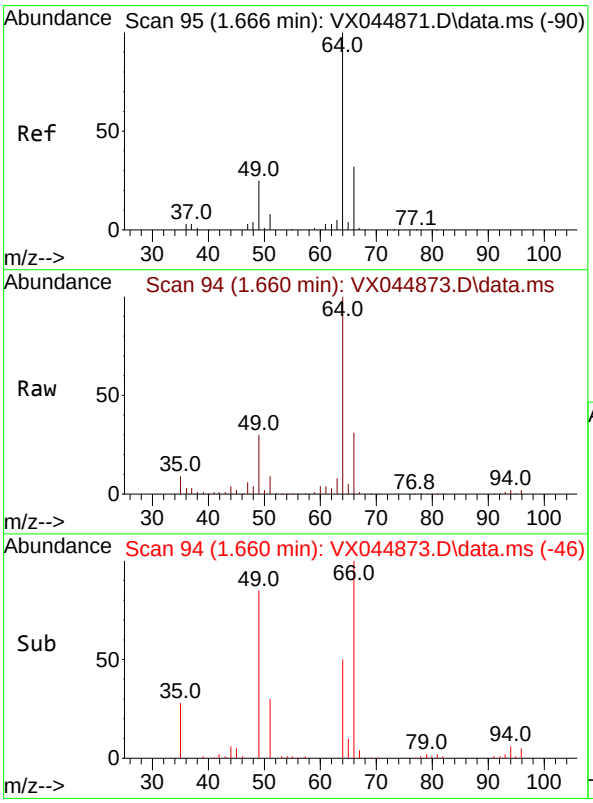
#5
Bromomethane
Concen: 149.071 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 92399

Ion	Ratio	Lower	Upper
94	100		
96	93.6	71.6	107.4

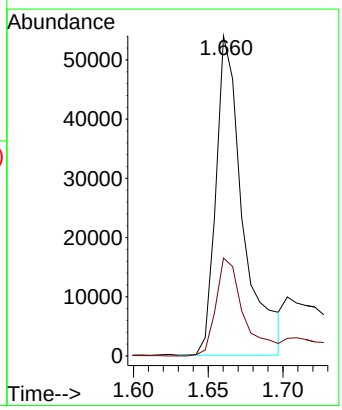


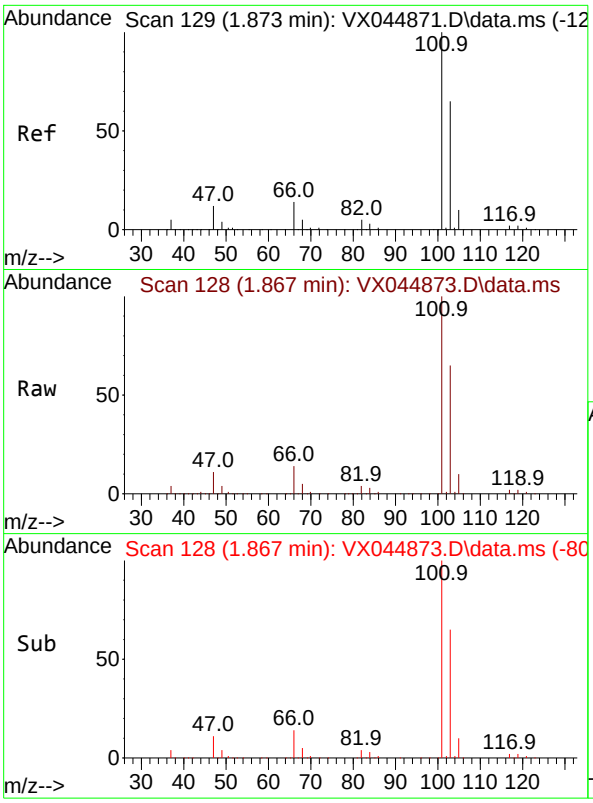


#6
Chloroethane
Concen: 130.289 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 64 Resp: 67889

Ion	Ratio	Lower	Upper
64	100		
66	30.7	25.9	38.9



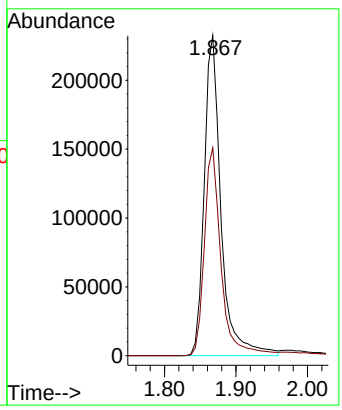


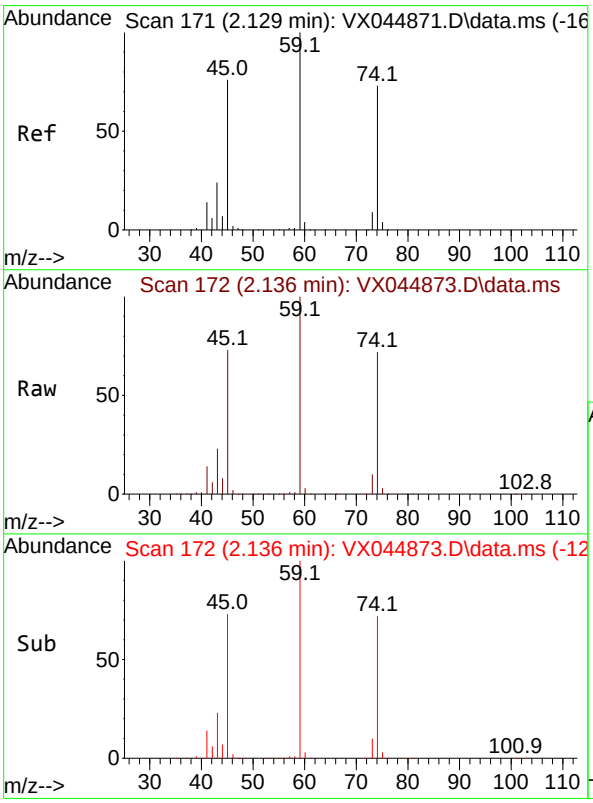
#7
Trichlorofluoromethane
Concen: 144.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 378664

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.4	78.6

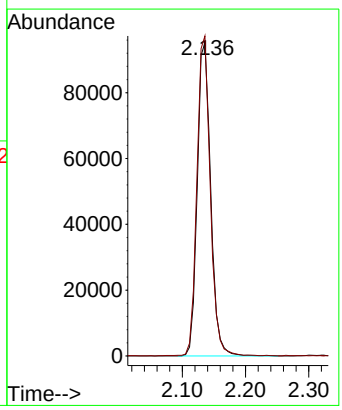


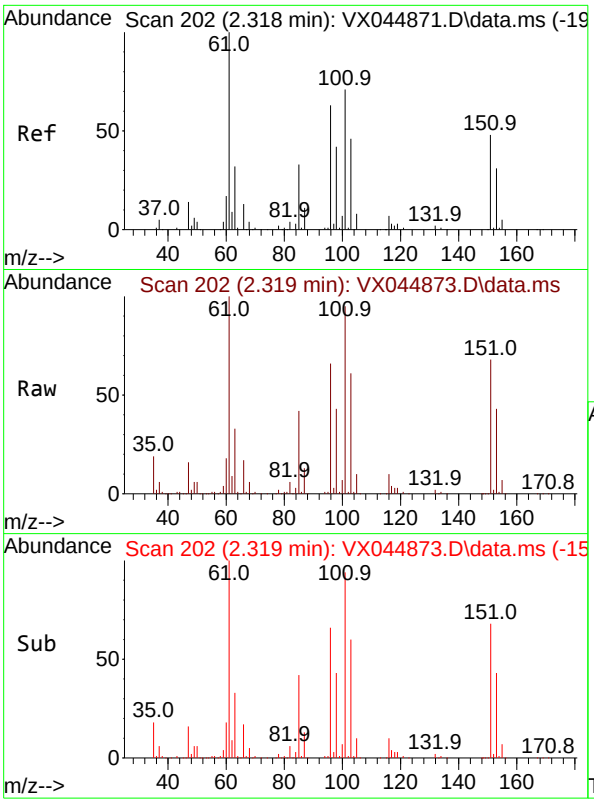


#8
Diethyl Ether
Concen: 147.822 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 74 Resp: 140428

Ion	Ratio	Lower	Upper
74	100		
45	102.1	51.1	153.4



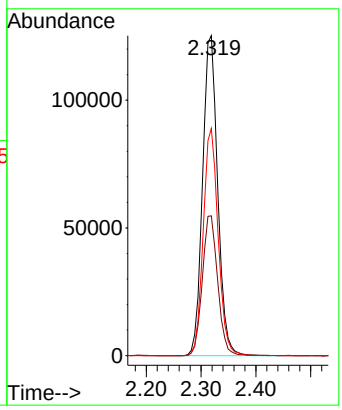


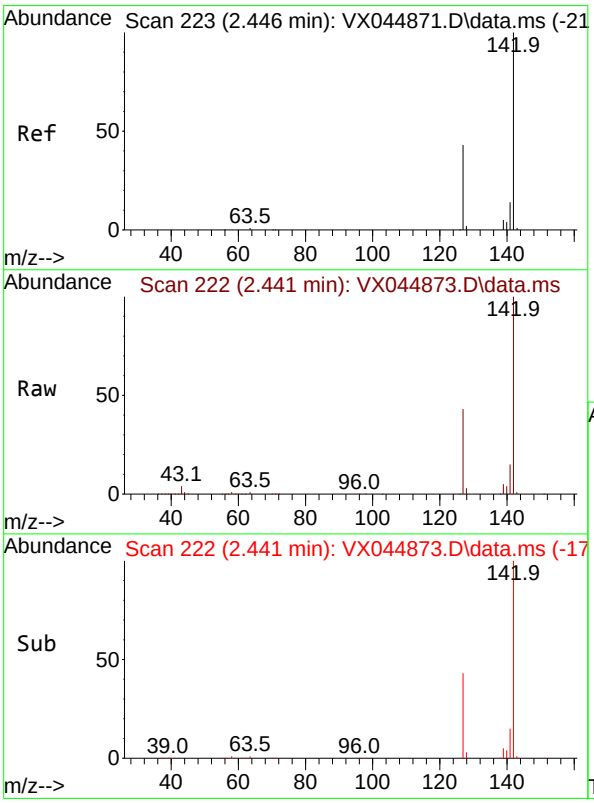
#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.147 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 239215

Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.7	53.5
151	70.2	56.0	84.0

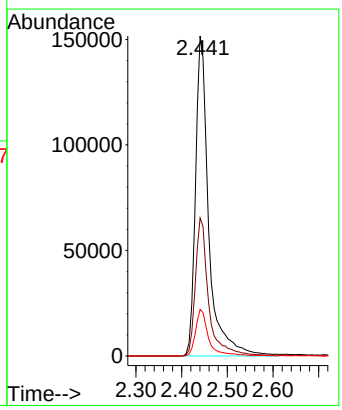


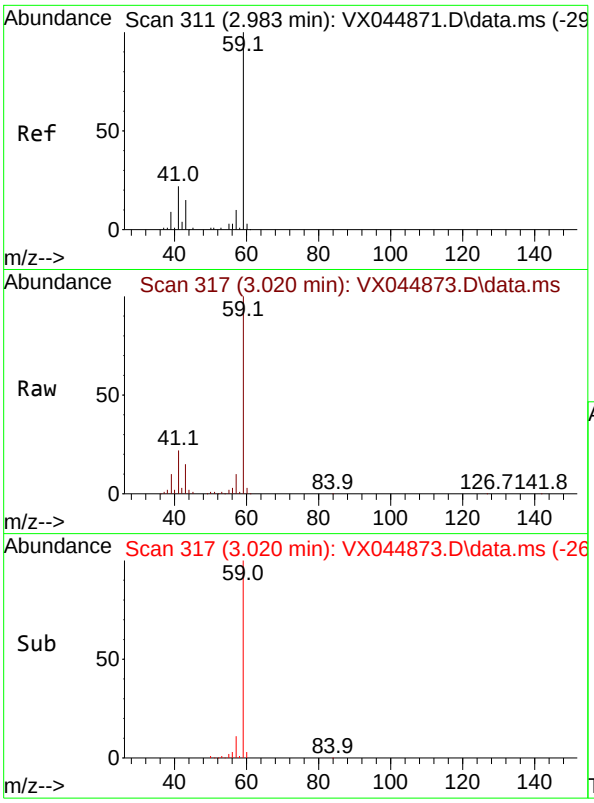


#10
Methyl Iodide
Concen: 148.887 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:142 Resp: 305390

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.4	11.4	17.2



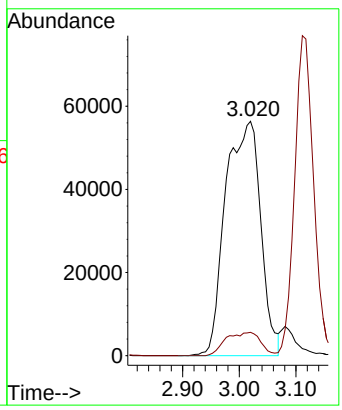


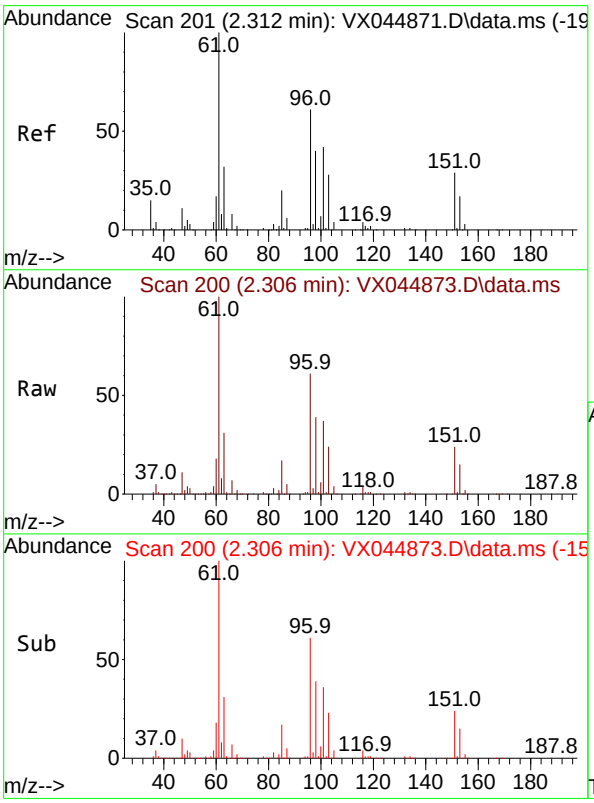
#11
Tert butyl alcohol
Concen: 712.734 ug/l
RT: 3.020 min Scan# 3
Delta R.T. 0.037 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 242430

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1

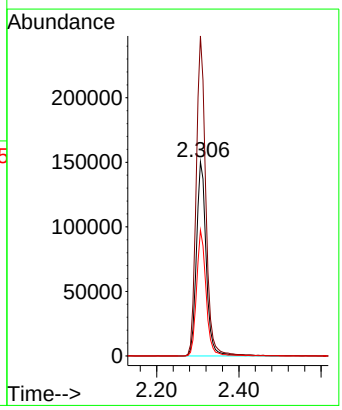


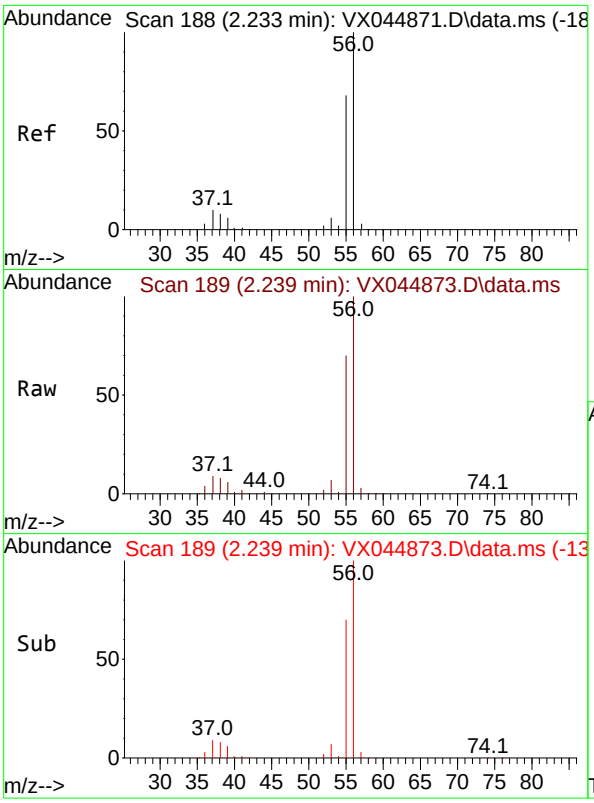


#12
1,1-Dichloroethene
Concen: 152.989 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 96 Resp: 246987

Ion	Ratio	Lower	Upper
96	100		
61	164.9	130.2	195.4
98	64.8	52.2	78.4



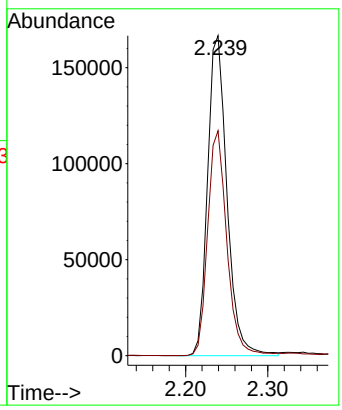


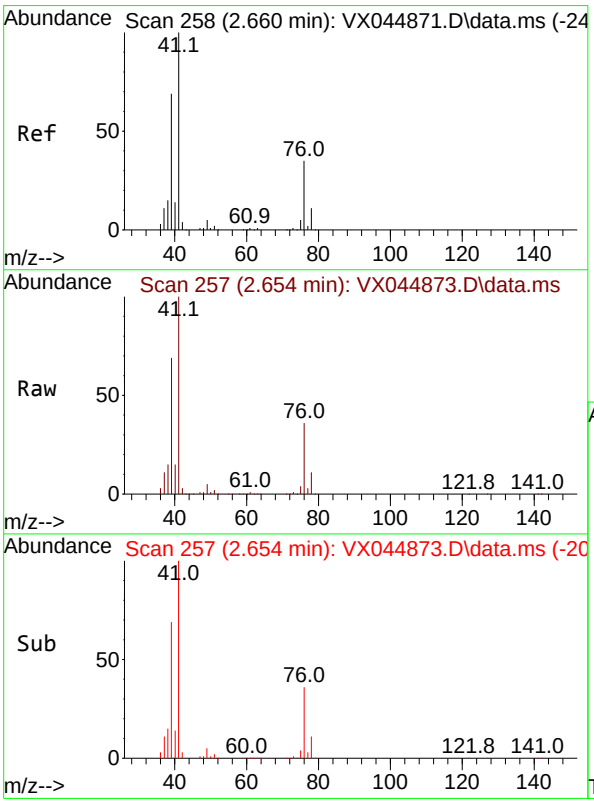
#13
Acrolein
Concen: 778.418 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 273178

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.7	83.5

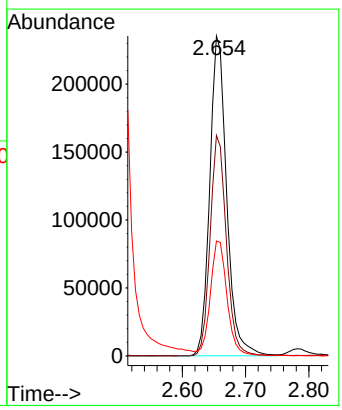


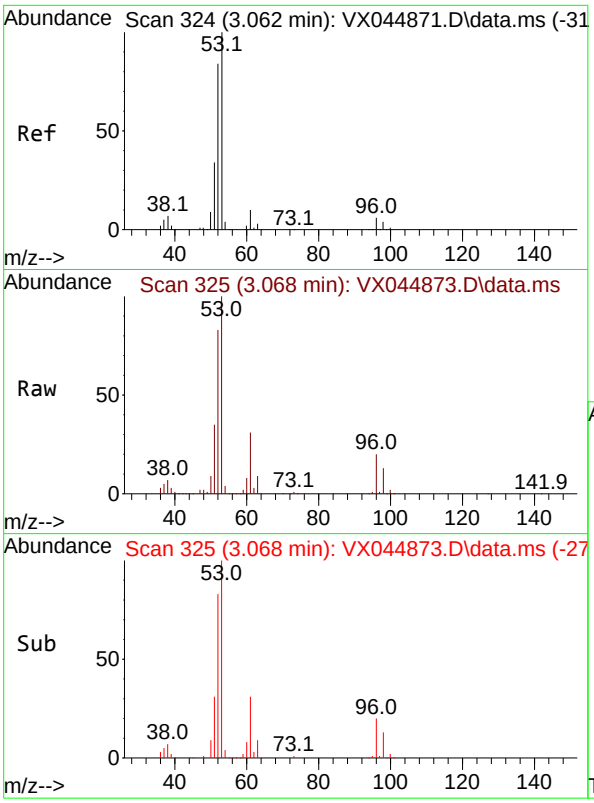


#14
Allyl chloride
Concen: 150.289 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 438493

Ion	Ratio	Lower	Upper
41	100		
39	66.1	51.4	77.2
76	35.7	27.0	40.4



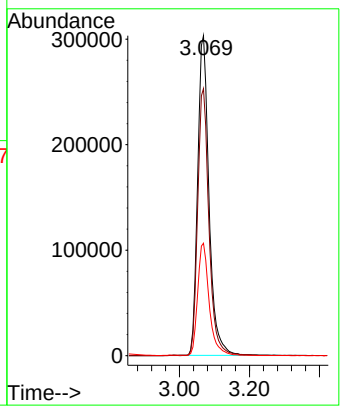


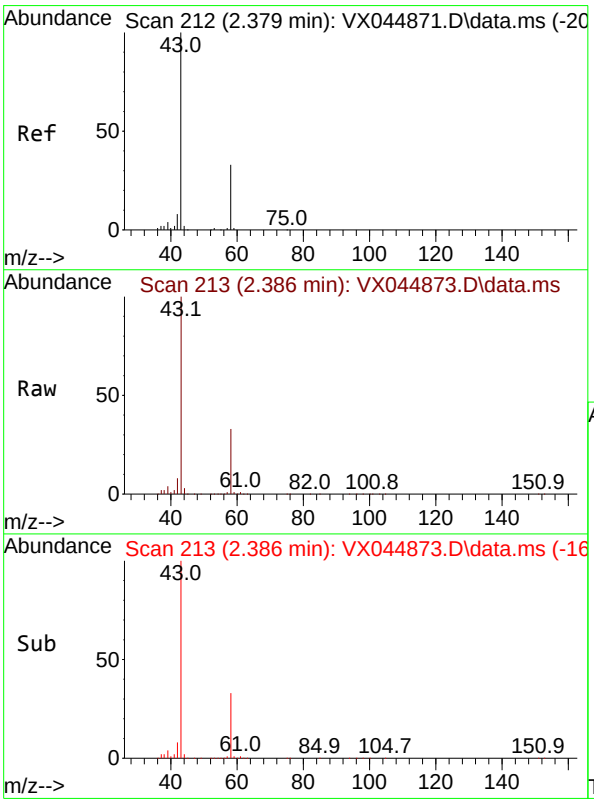
#15
Acrylonitrile
Concen: 753.423 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 684234

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.0	97.6
51	35.2	28.0	42.0

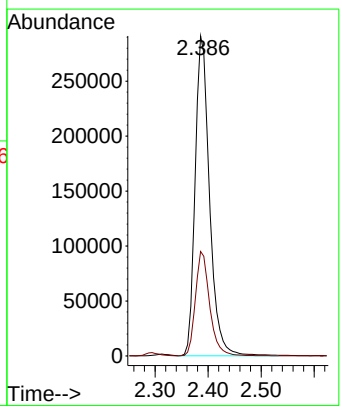


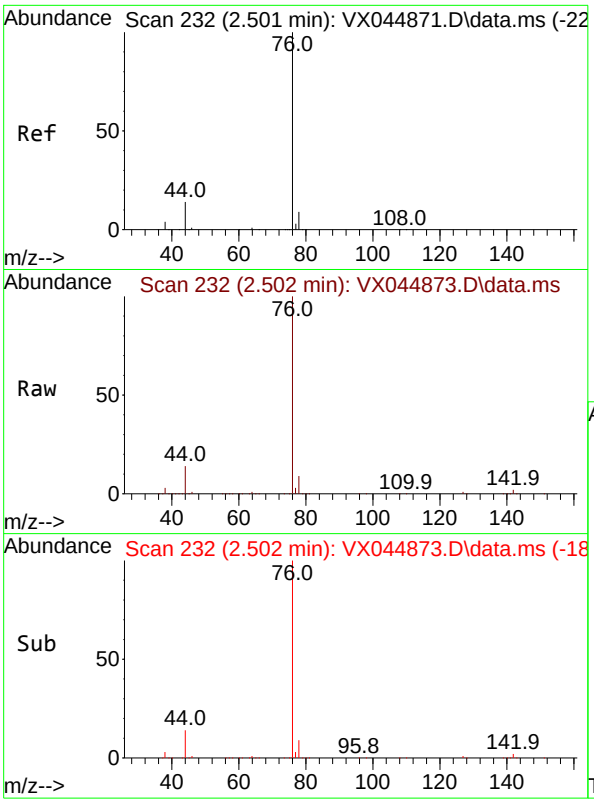


#16
Acetone
Concen: 743.398 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 547939

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.5	39.7



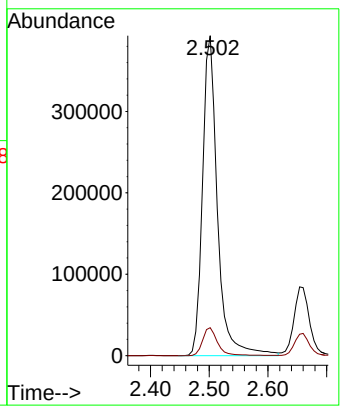


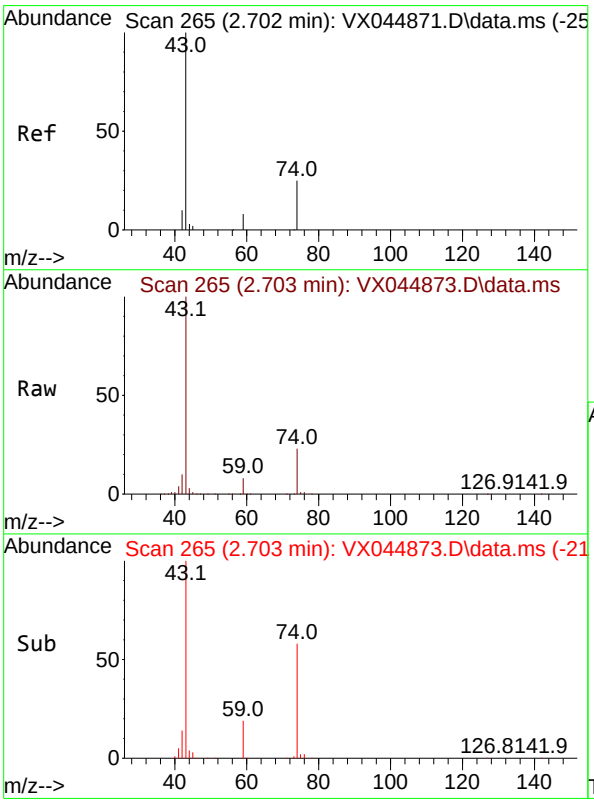
#17
Carbon Disulfide
Concen: 156.665 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 693558

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4

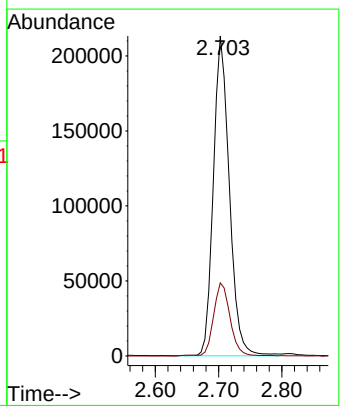


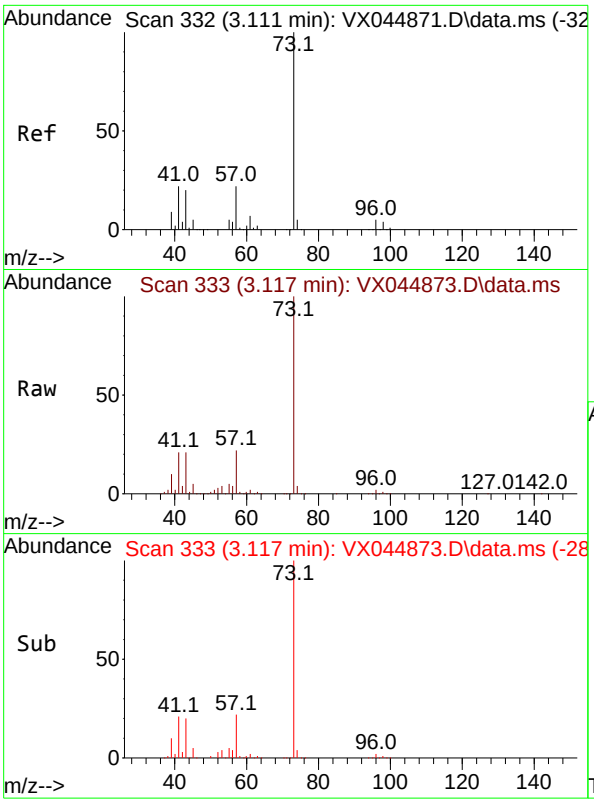


#18
Methyl Acetate
Concen: 160.743 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 373877

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.9	28.3



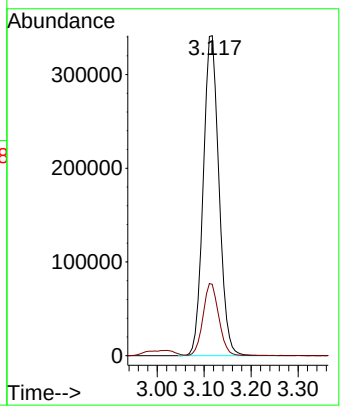


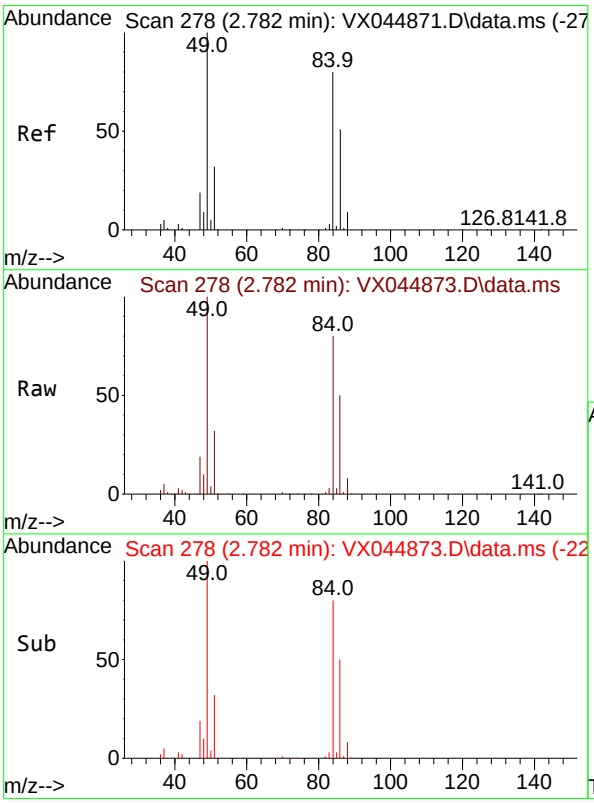
#19
Methyl tert-butyl Ether
Concen: 154.347 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 792810

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.9	26.9

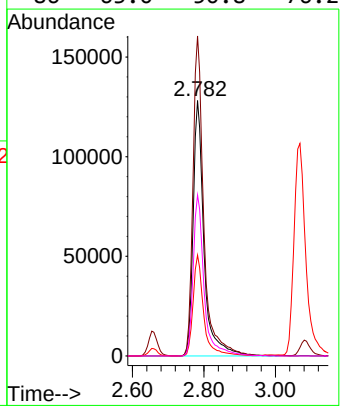


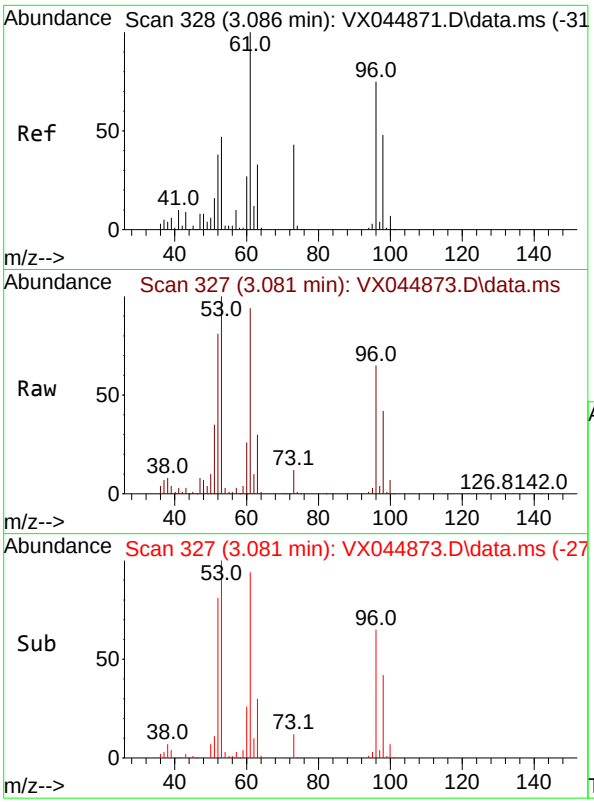


#20
Methylene Chloride
Concen: 149.871 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 84 Resp: 270575

Ion	Ratio	Lower	Upper
84	100		
49	125.2	100.1	150.1
51	39.5	31.7	47.5
86	63.0	50.8	76.2



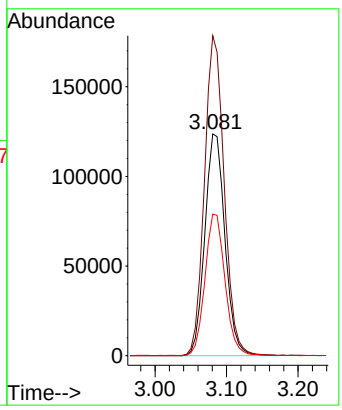


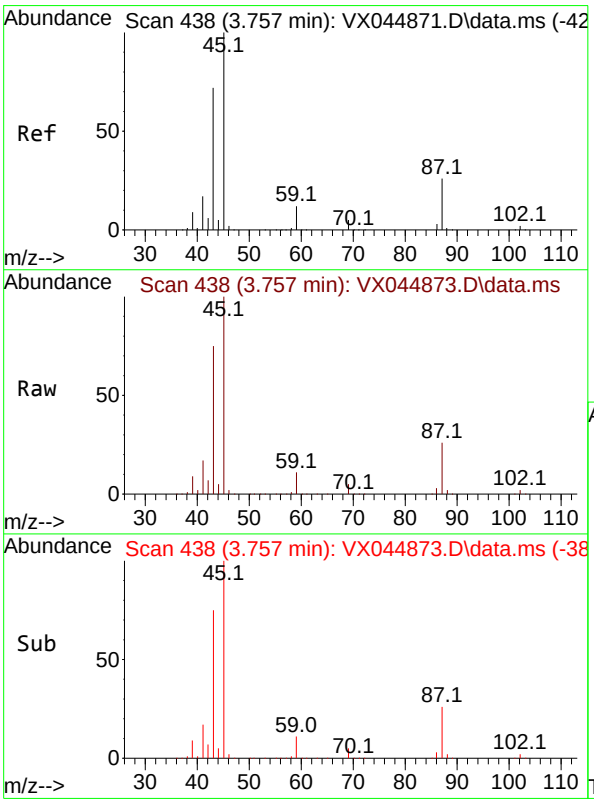
#21
trans-1,2-Dichloroethene
Concen: 152.356 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 242082

Ion	Ratio	Lower	Upper
96	100		
61	144.2	106.0	159.0
98	63.9	50.6	76.0

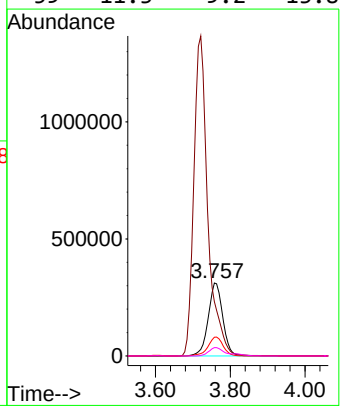


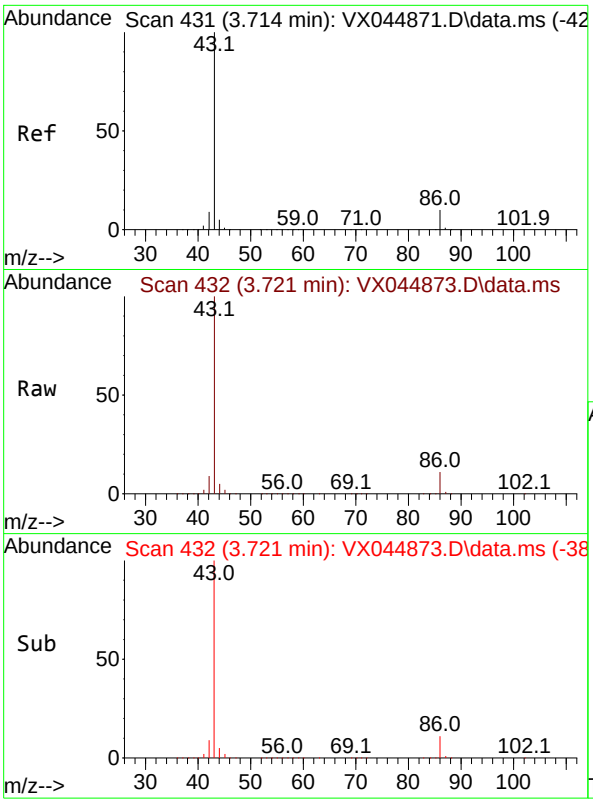


#22
Diisopropyl ether
Concen: 152.020 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 45 Resp: 839126

Ion	Ratio	Lower	Upper
45	100		
43	74.6	58.0	87.0
87	25.8	20.7	31.1
59	11.3	9.2	13.8



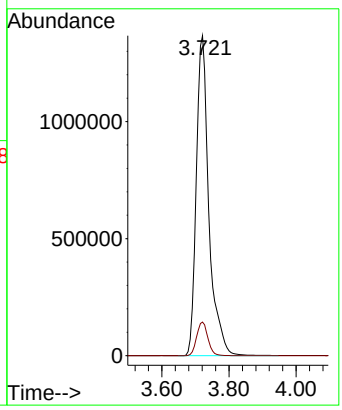


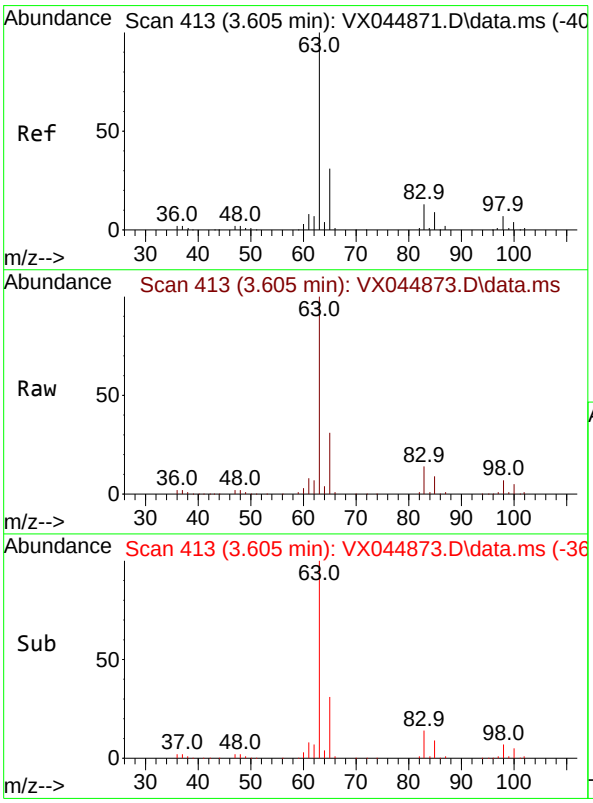
#23
Vinyl Acetate
Concen: 789.993 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 3555031

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.3	12.5

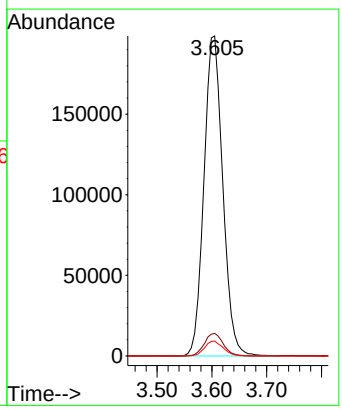


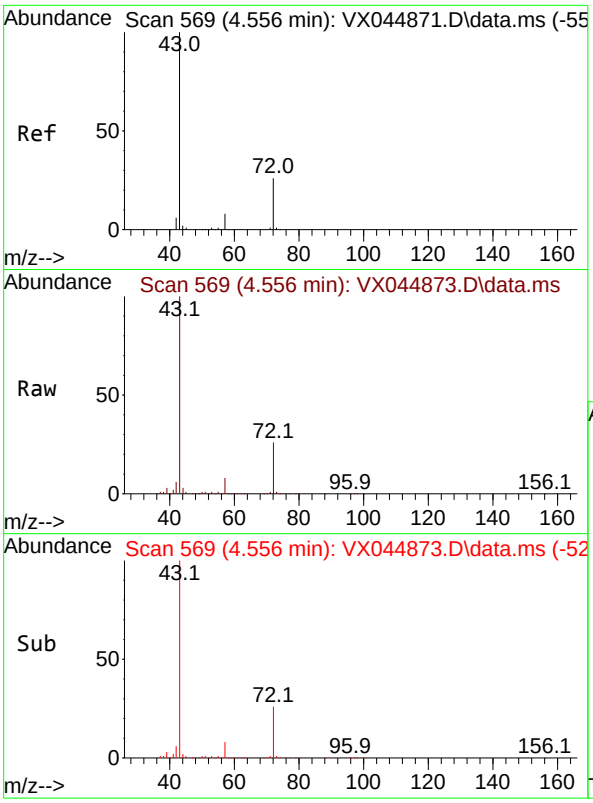


#24
1,1-Dichloroethane
Concen: 152.959 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 472424

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.3	9.9
100	4.6	2.1	6.5



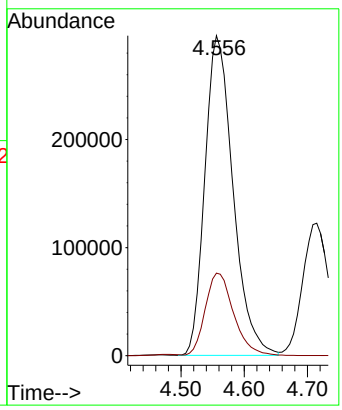


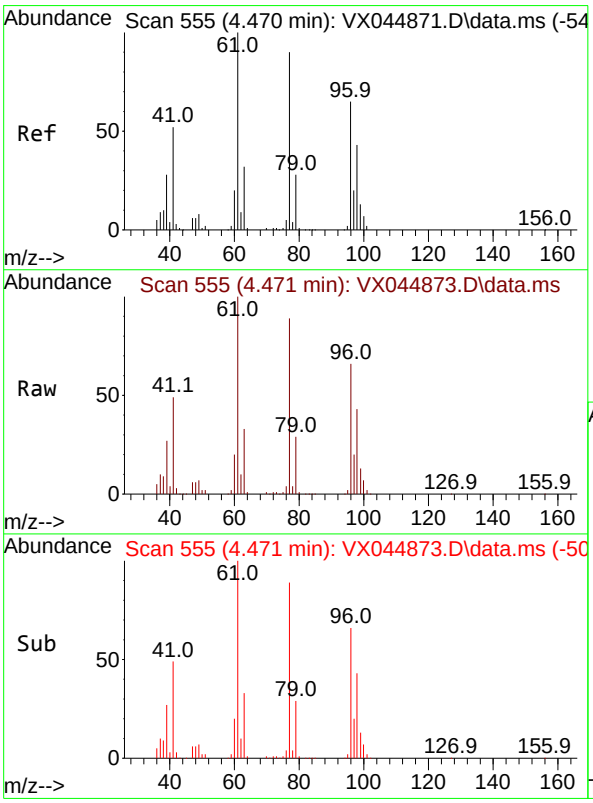
#25
2-Butanone
Concen: 764.276 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 914741

Ion	Ratio	Lower	Upper
43	100		
72	25.6	21.2	31.8

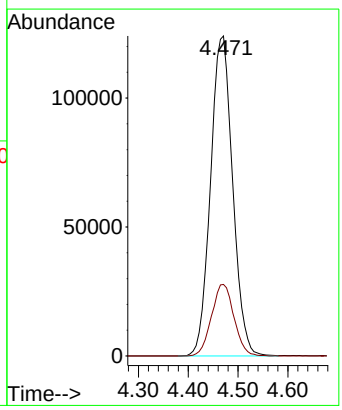


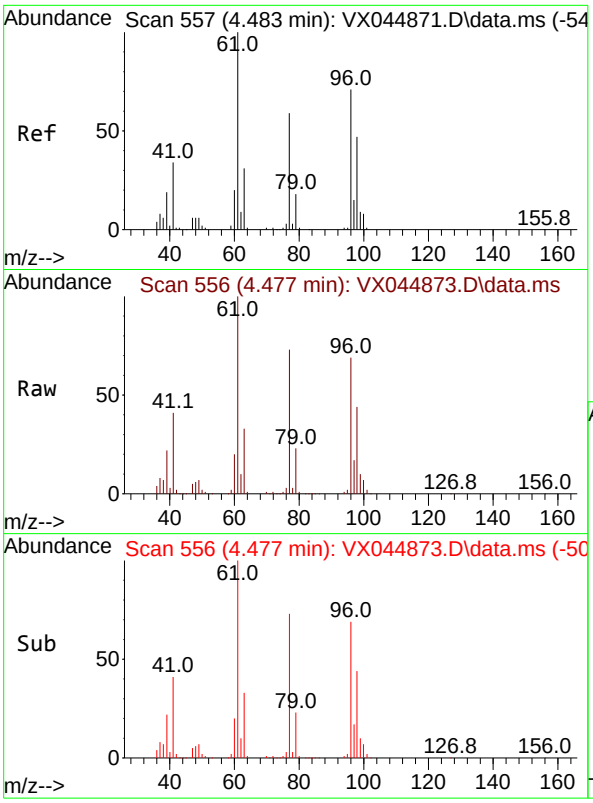


#26
2,2-Dichloropropane
Concen: 156.029 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 77 Resp: 382167

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.8	35.3



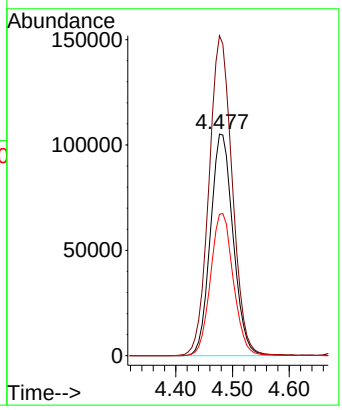


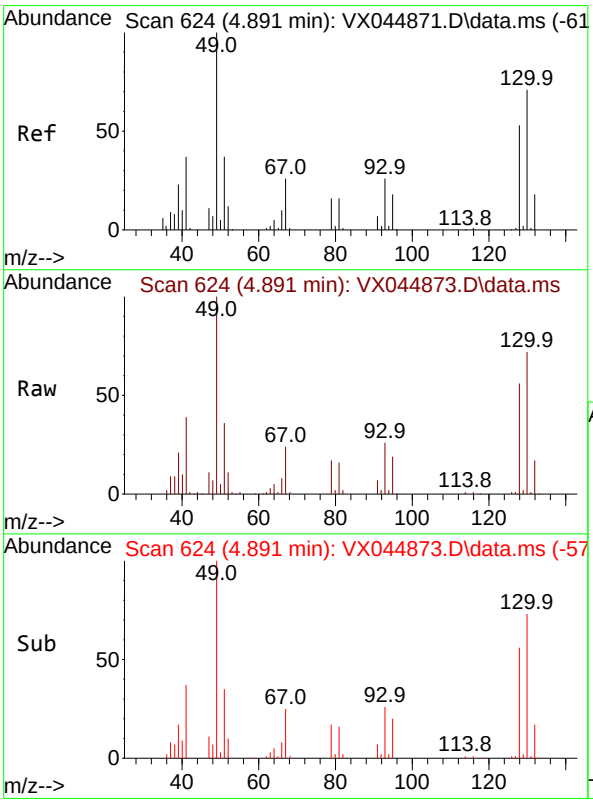
#27
cis-1,2-Dichloroethene
Concen: 153.446 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 292864

Ion	Ratio	Lower	Upper
96	100		
61	148.1	0.0	294.0
98	64.6	0.0	131.2

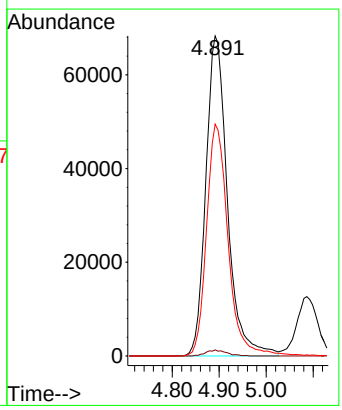


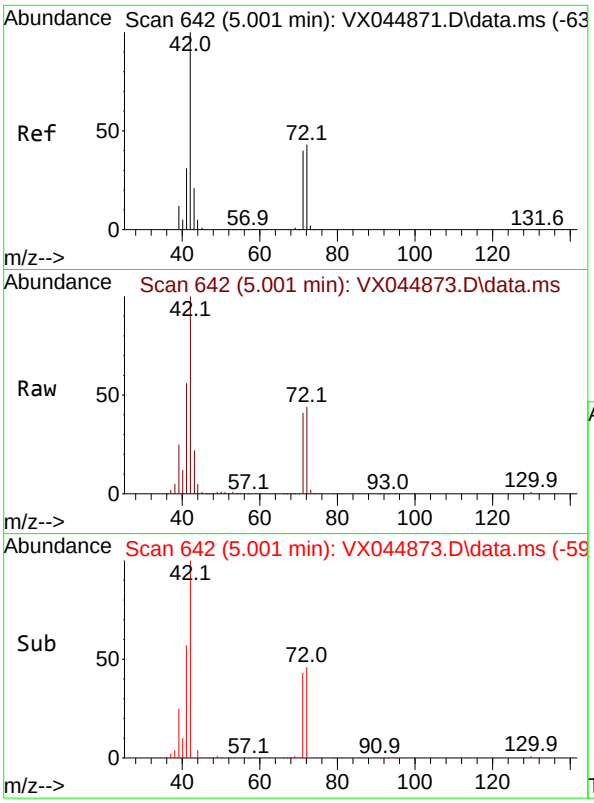


#28
Bromochloromethane
Concen: 146.458 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 49 Resp: 217387

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	72.6	56.7	85.1



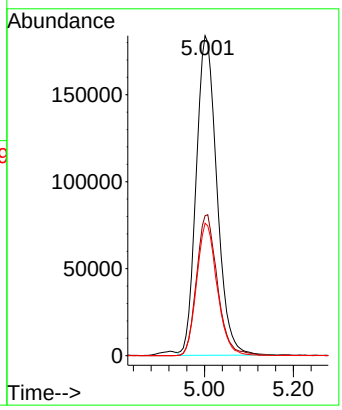


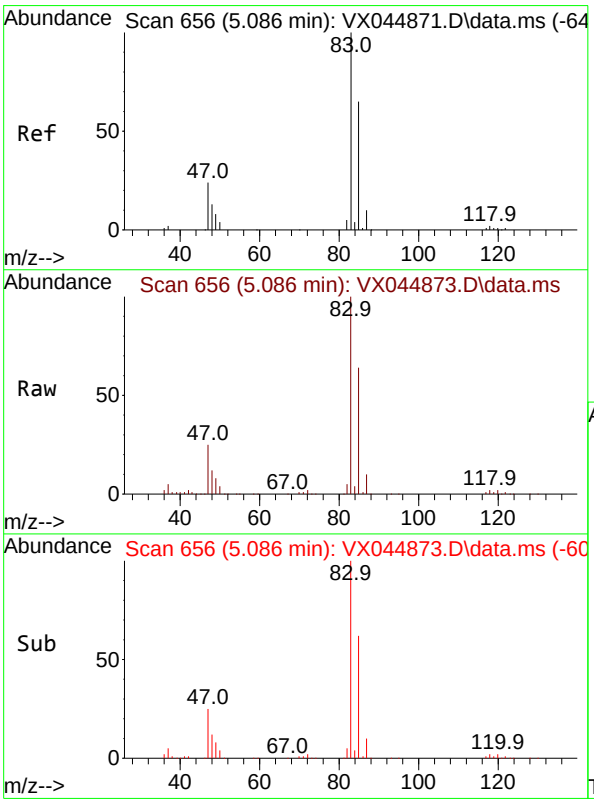
#29
Tetrahydrofuran
Concen: 749.977 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 596045

Ion	Ratio	Lower	Upper
42	100		
72	44.5	35.0	52.4
71	41.0	32.6	48.8

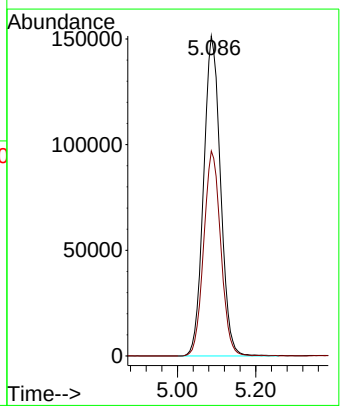


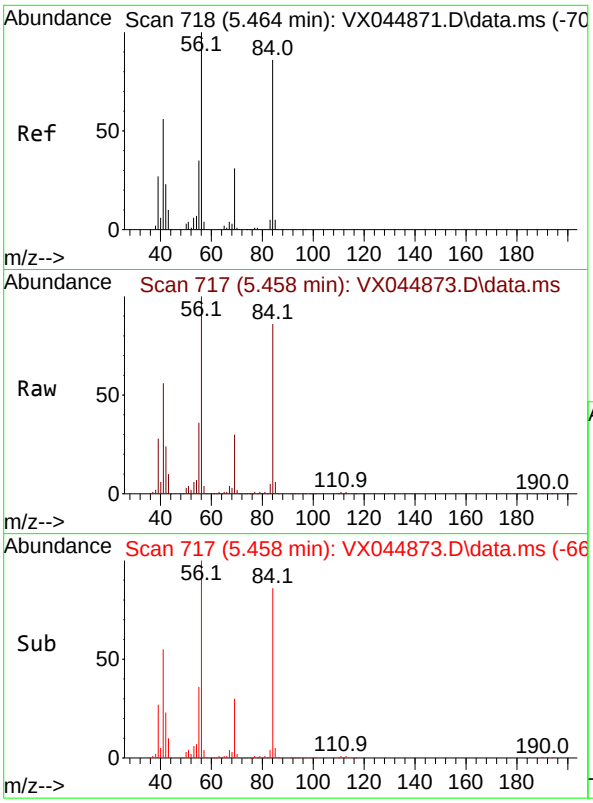


#30
Chloroform
Concen: 151.509 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 83 Resp: 453809

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.1	78.1



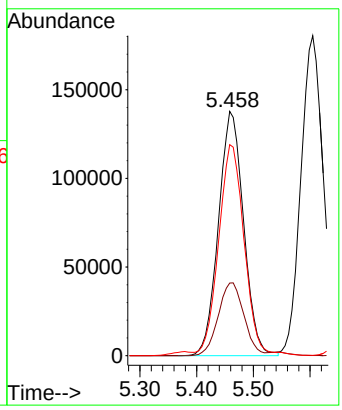


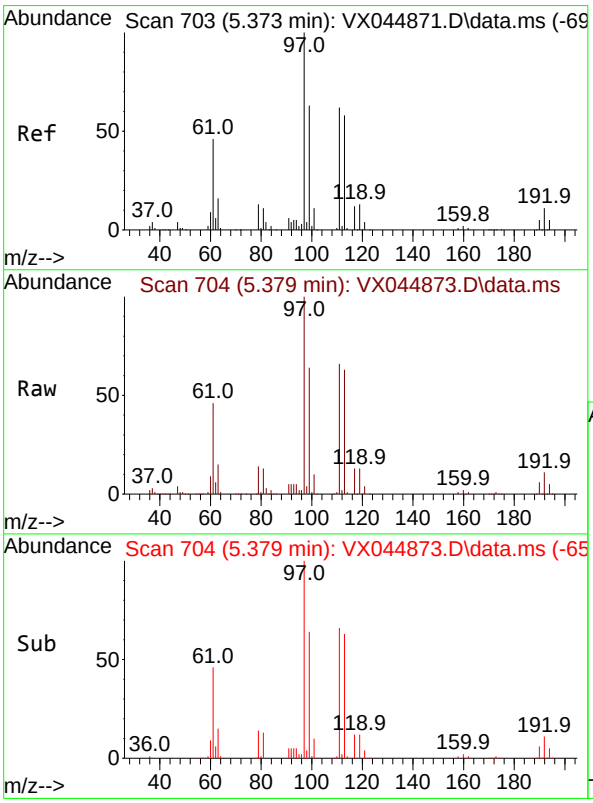
#31
Cyclohexane
Concen: 148.722 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 423464

Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.4	36.6
84	85.0	69.0	103.6

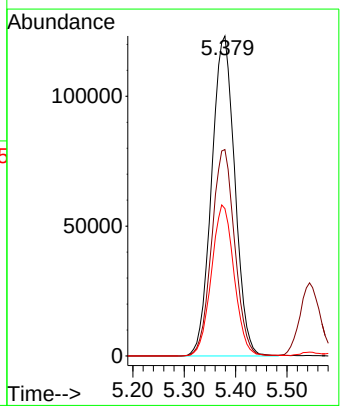


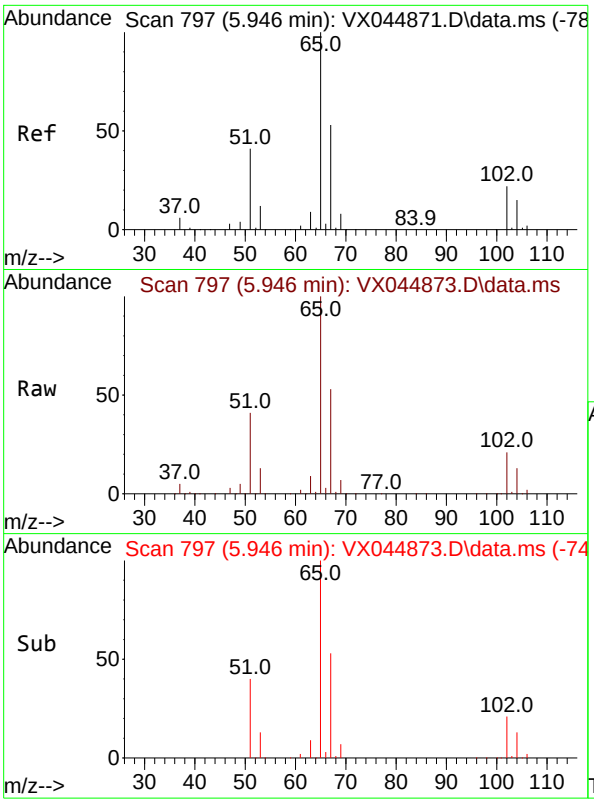


#32
1,1,1-Trichloroethane
Concen: 151.996 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 97 Resp: 386162

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.0	76.6
61	46.4	36.6	55.0



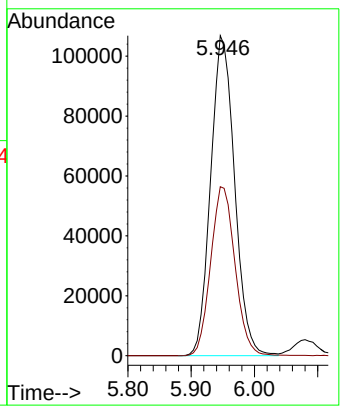


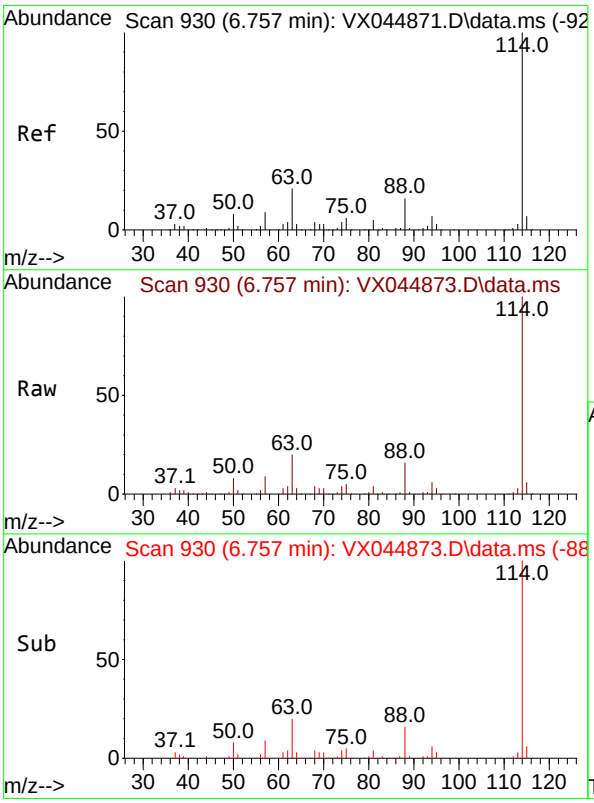
#33
1,2-Dichloroethane-d4
Concen: 153.180 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 280853

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	108.2

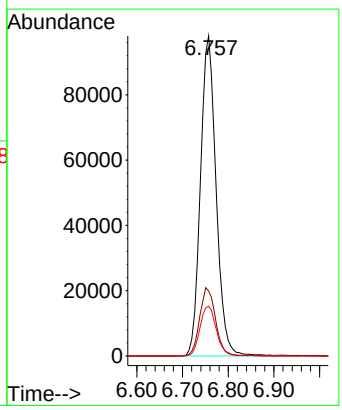


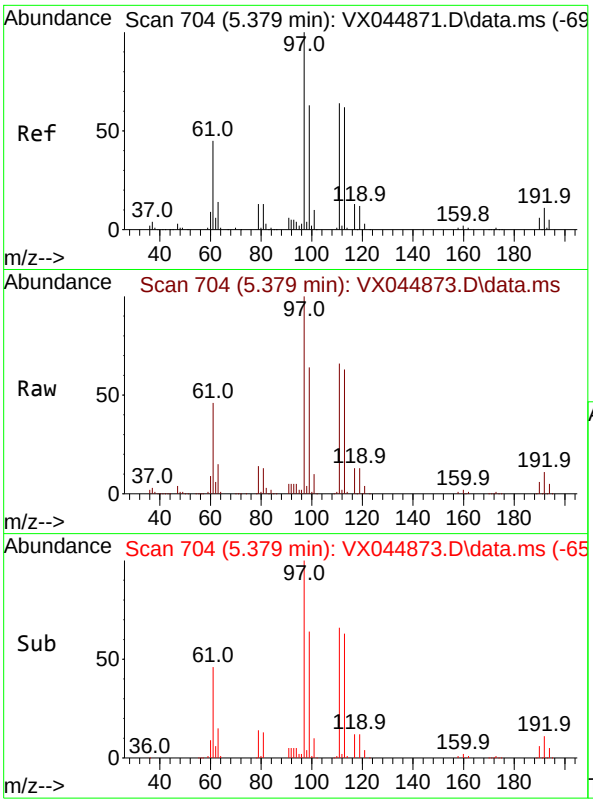


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:114 Resp: 232597

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.4
88	15.5	0.0	31.4



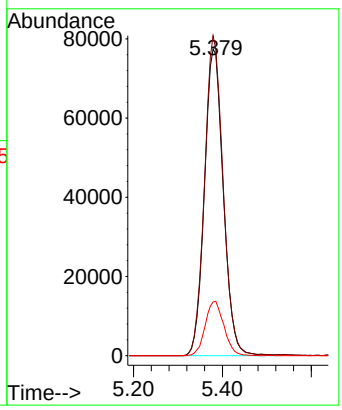


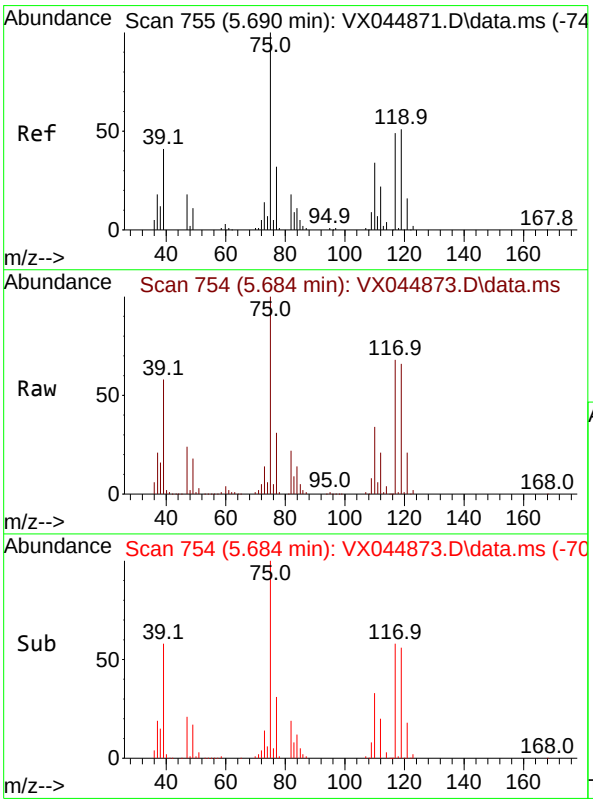
#35
Dibromofluoromethane
Concen: 151.572 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 229218

Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.5	125.3
192	17.6	14.4	21.6

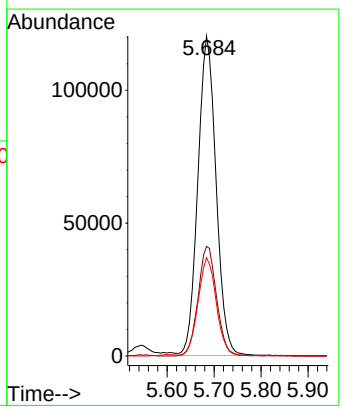


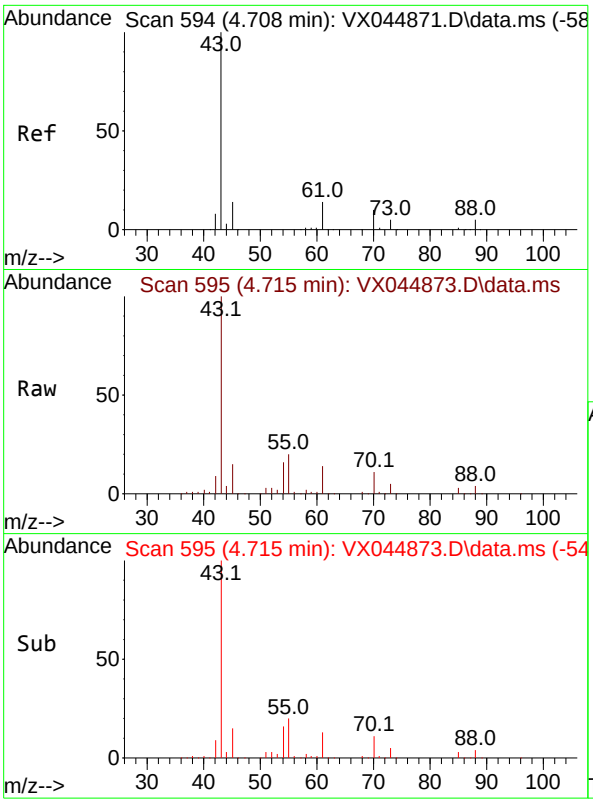


#36
1,1-Dichloropropene
Concen: 148.585 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 324182

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.2	51.6
77	30.9	24.6	37.0



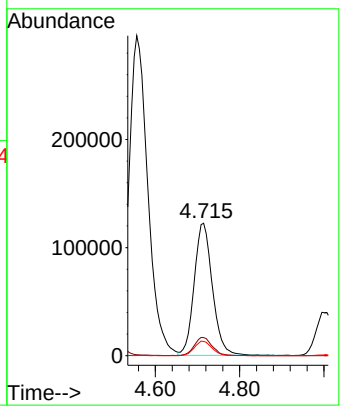


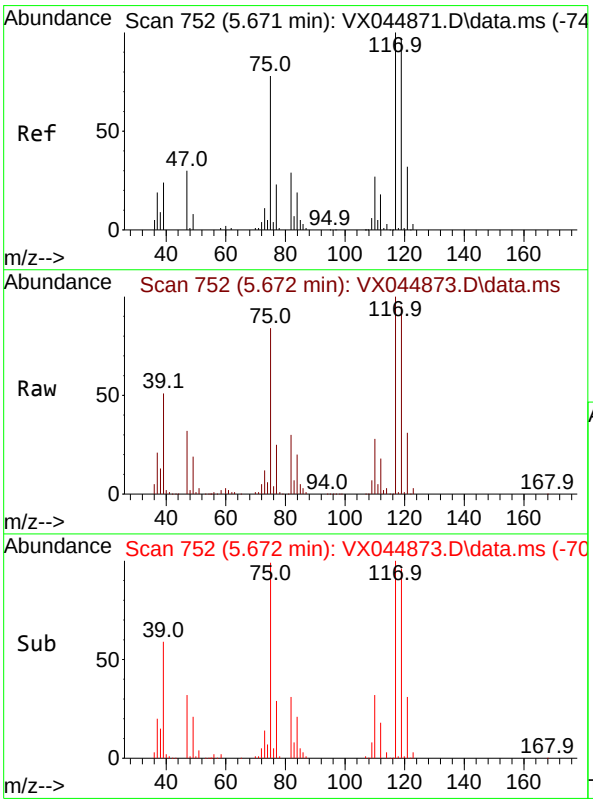
#37
Ethyl Acetate
Concen: 151.956 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 368763

Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.0	16.4
70	10.6	8.2	12.2

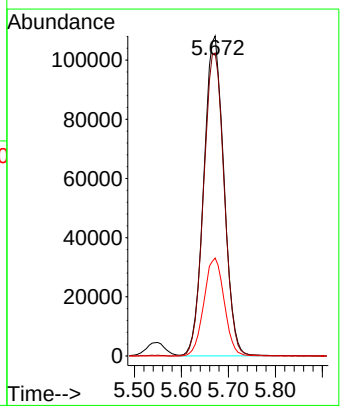


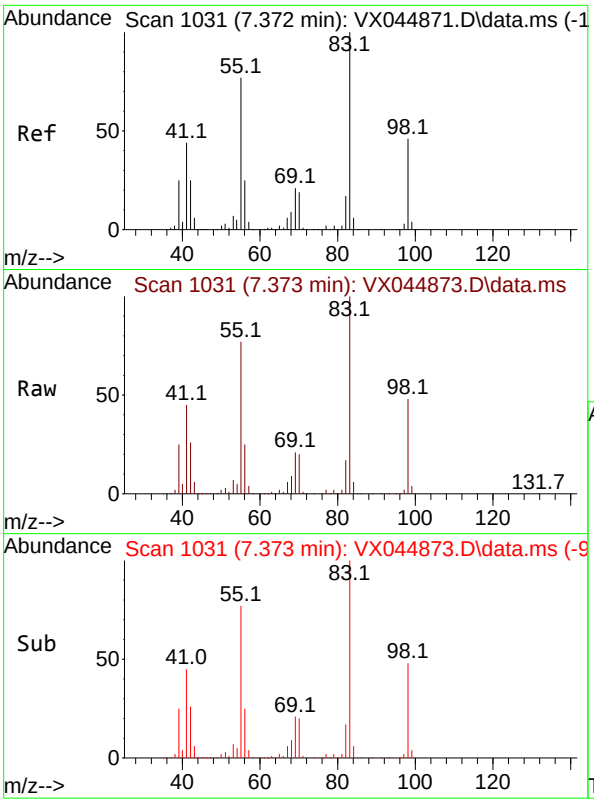


#38
Carbon Tetrachloride
Concen: 149.921 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 320536

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.5	116.3
121	30.6	25.6	38.4



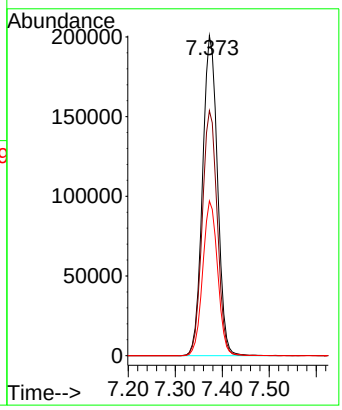


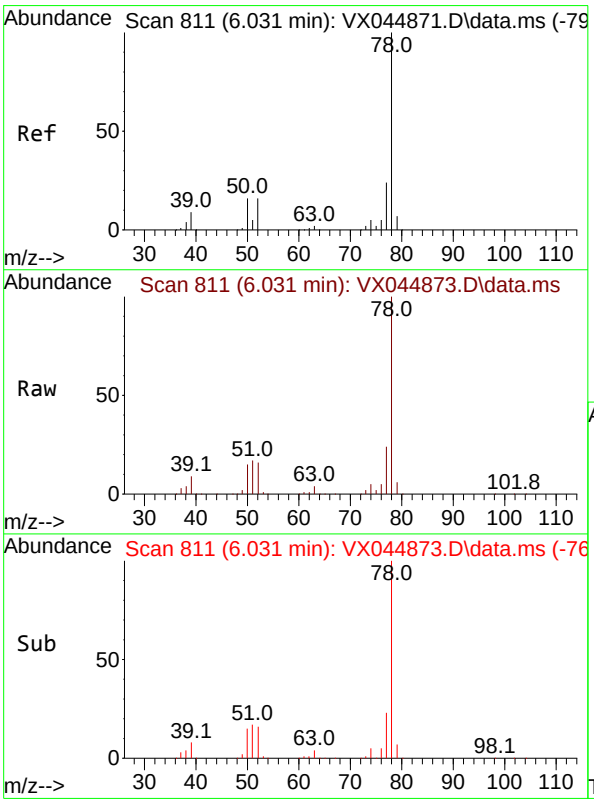
#39
Methylcyclohexane
Concen: 157.130 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 443218

Ion	Ratio	Lower	Upper
83	100		
55	76.5	61.3	91.9
98	48.4	37.0	55.6

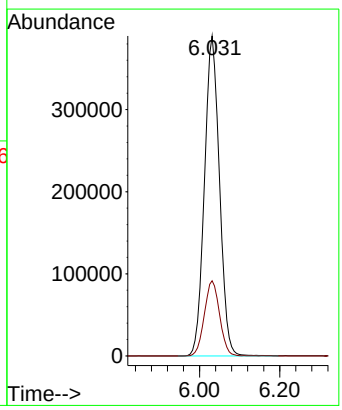


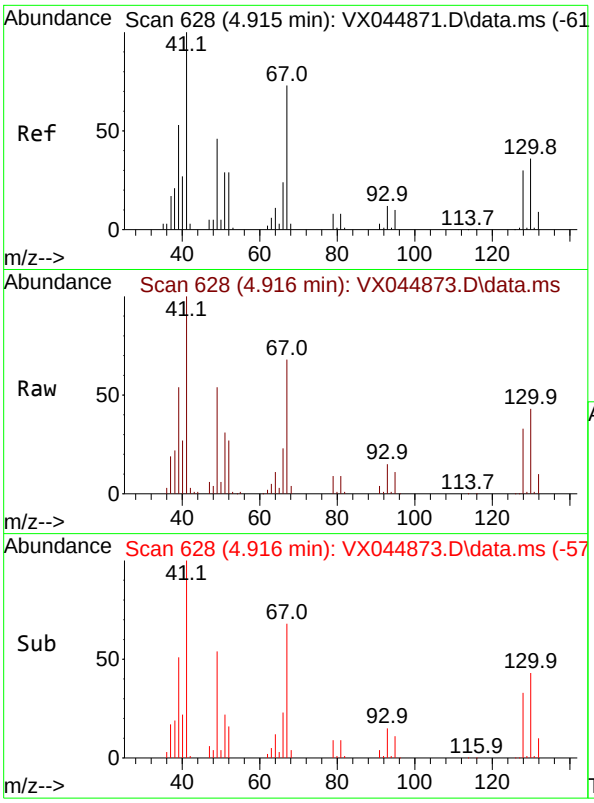


#40
Benzene
Concen: 148.856 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 78 Resp: 1014129

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6



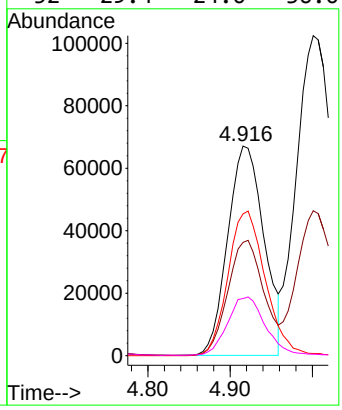


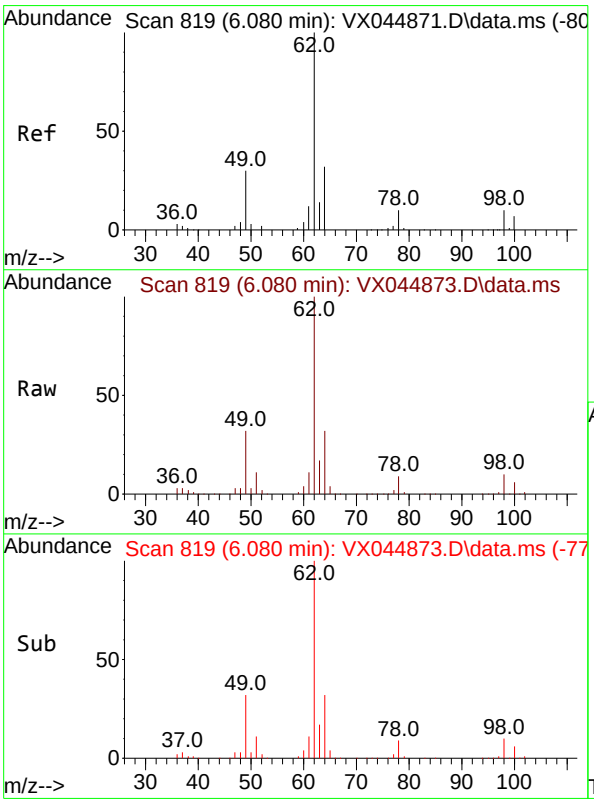
#41
Methacrylonitrile
Concen: 158.707 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 206155

Ion	Ratio	Lower	Upper
41	100		
39	54.2	43.1	64.7
67	71.4	57.0	85.6
52	29.4	24.0	36.0

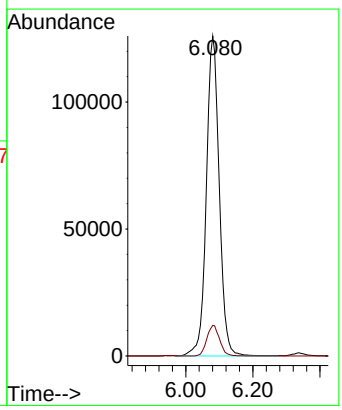


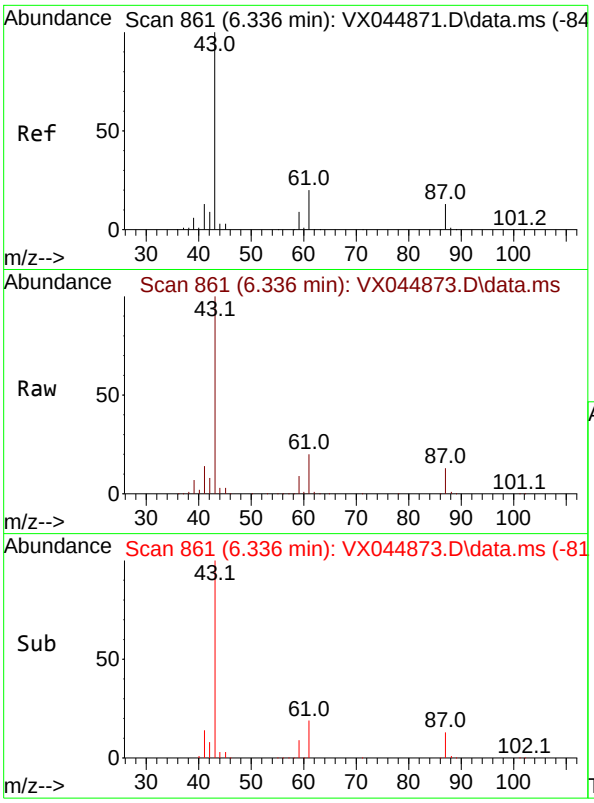


#42
1,2-Dichloroethane
Concen: 154.984 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 62 Resp: 336520

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.4



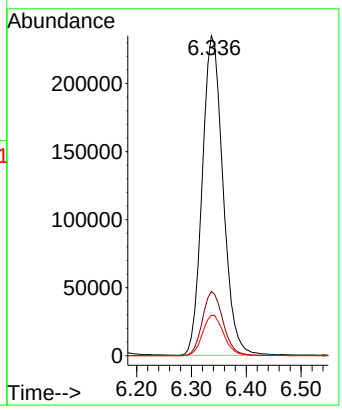


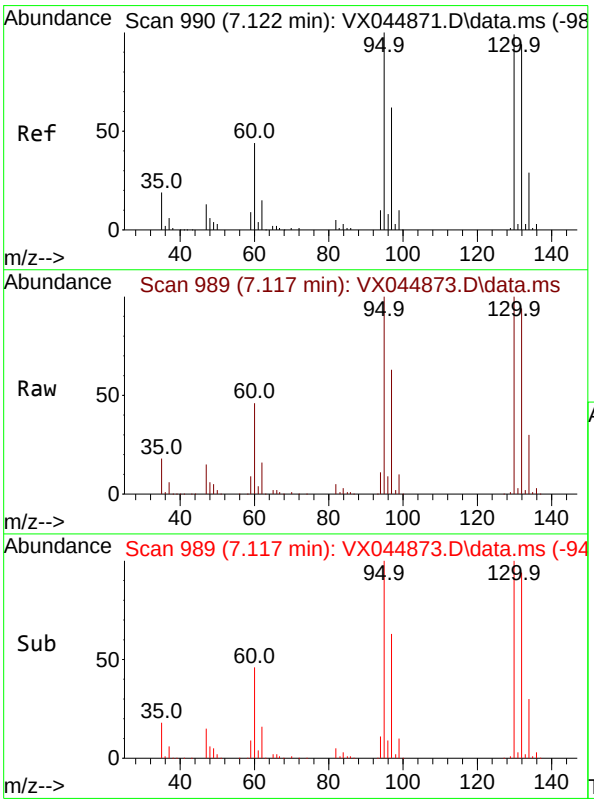
#43
Isopropyl Acetate
Concen: 157.575 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 617516

Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.8	23.8
87	12.9	10.0	15.0

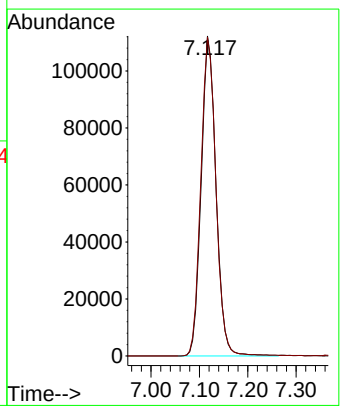


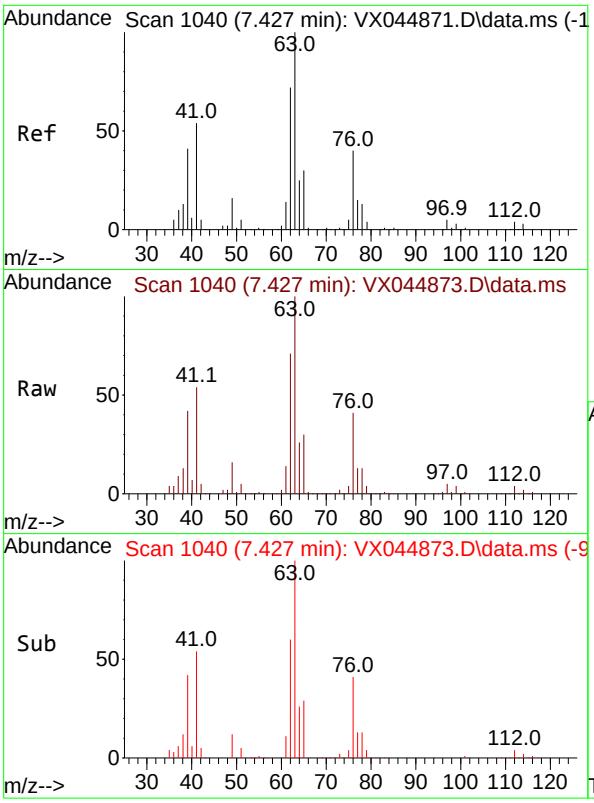


#44
Trichloroethene
Concen: 153.496 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:130 Resp: 239030

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	202.4



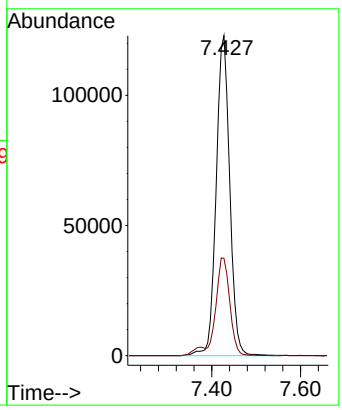


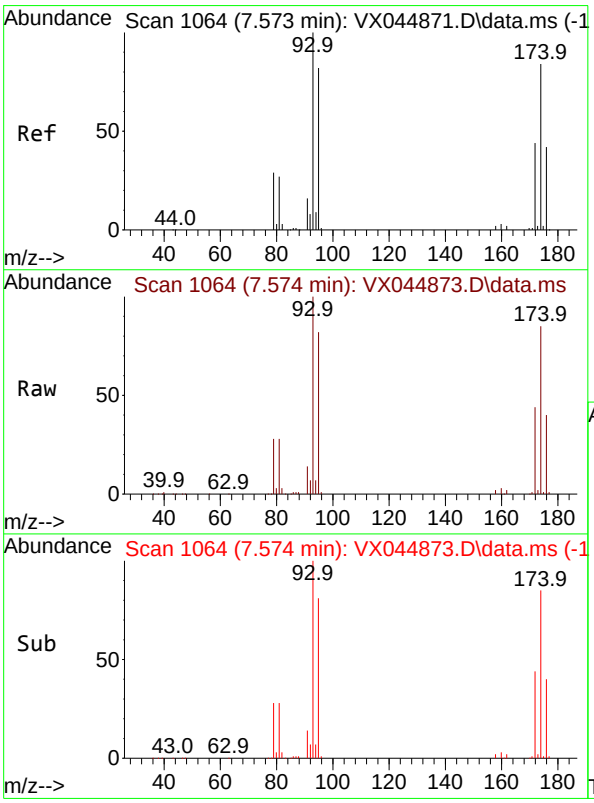
#45
1,2-Dichloropropane
Concen: 153.076 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 259454

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.2	36.4

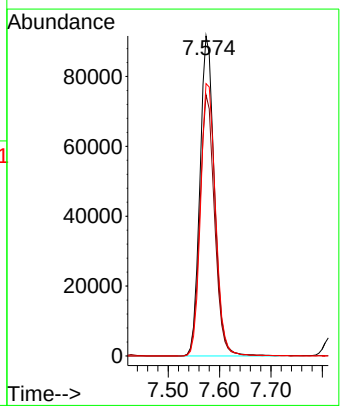


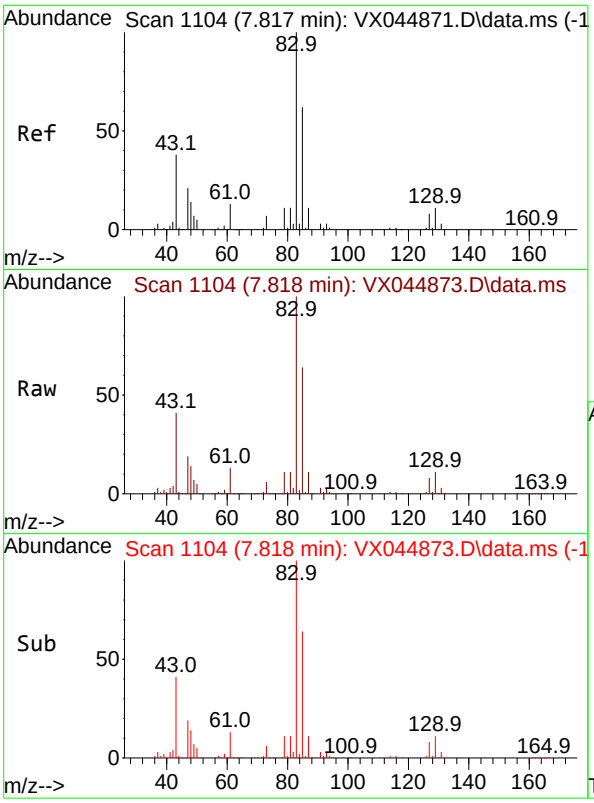


#46
Dibromomethane
Concen: 152.870 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 93 Resp: 179689

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.2	99.4
174	87.9	69.9	104.9



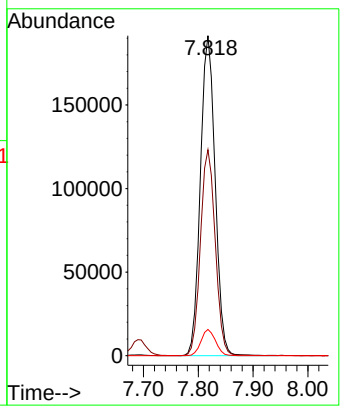


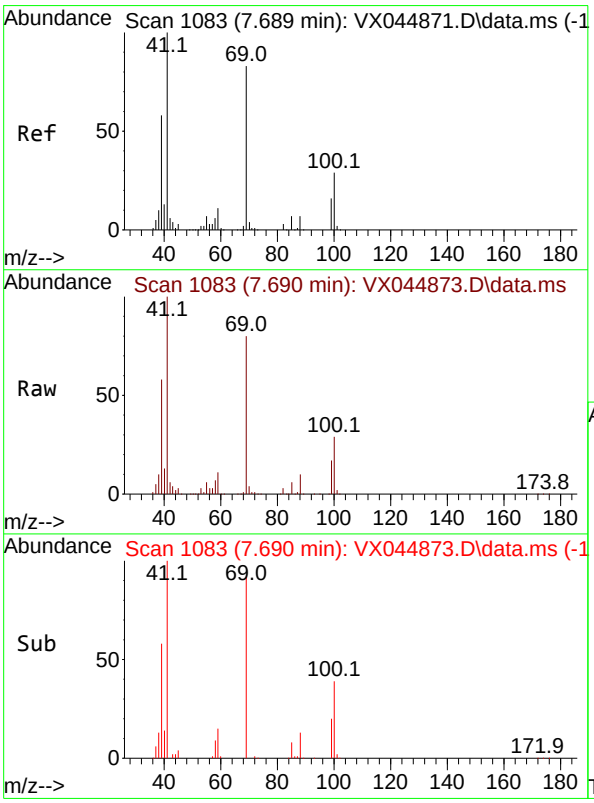
#47
Bromodichloromethane
Concen: 157.128 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 357623

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0
127	8.2	6.4	9.6

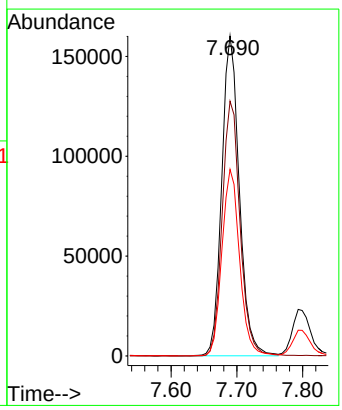


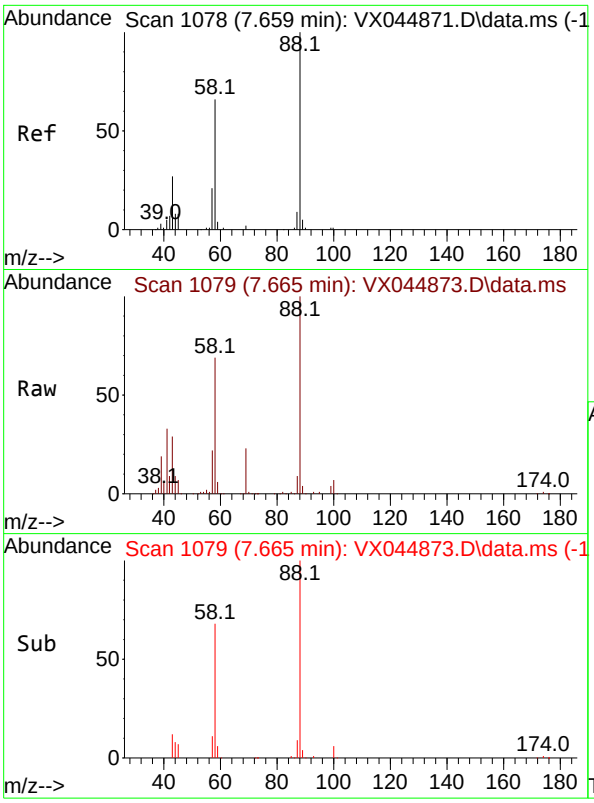


#48
Methyl methacrylate
Concen: 161.236 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 41 Resp: 297931

Ion	Ratio	Lower	Upper
41	100		
69	81.4	65.8	98.8
39	58.7	46.4	69.6



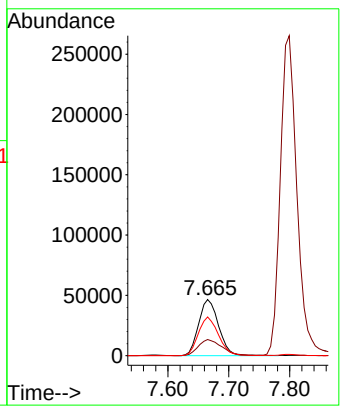


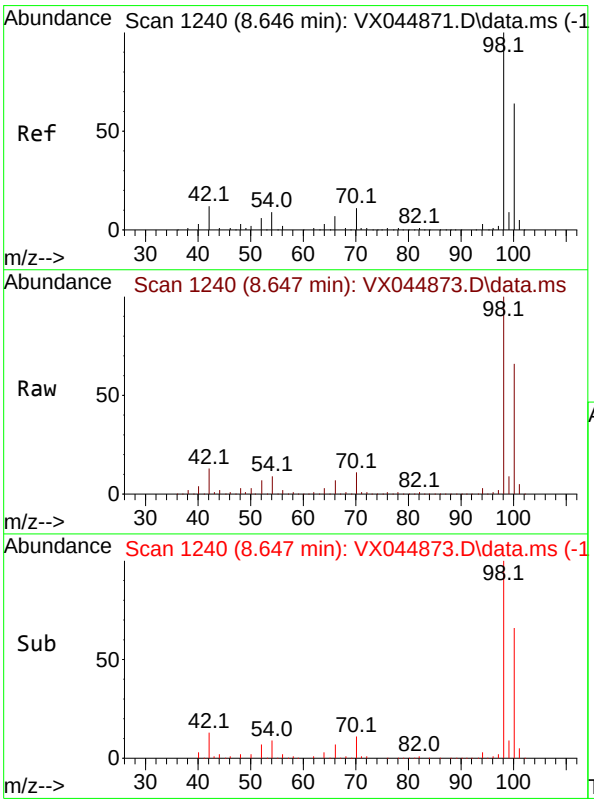
#49
1,4-Dioxane
Concen: 2678.192 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 106175

Ion	Ratio	Lower	Upper
88	100		
43	33.0	26.6	39.8
58	69.4	55.9	83.9

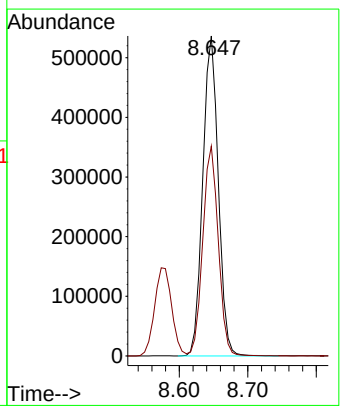


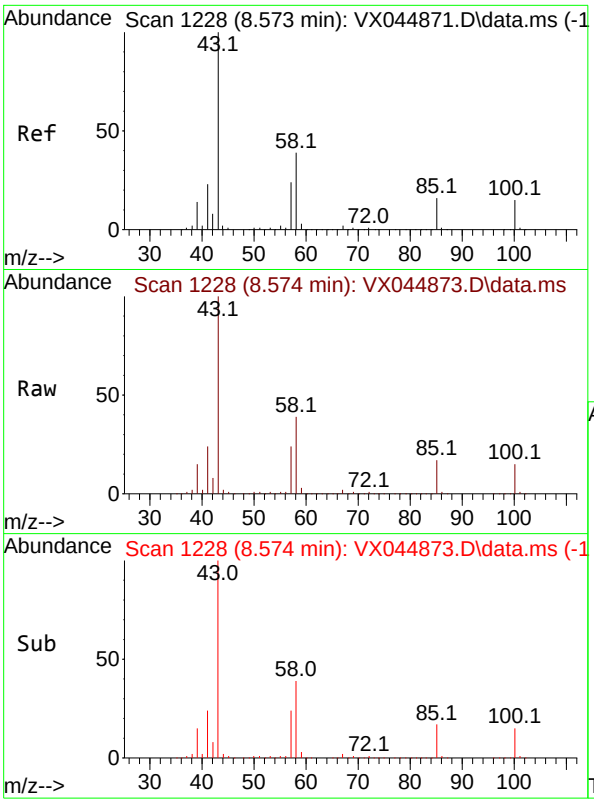


#50
Toluene-d8
Concen: 147.877 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 98 Resp: 845632

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.7	79.1



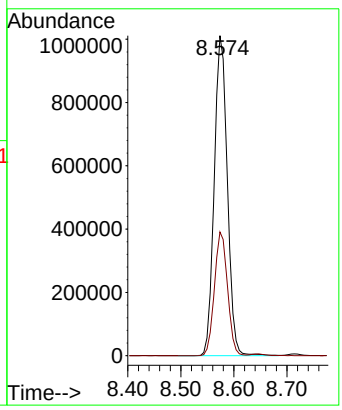


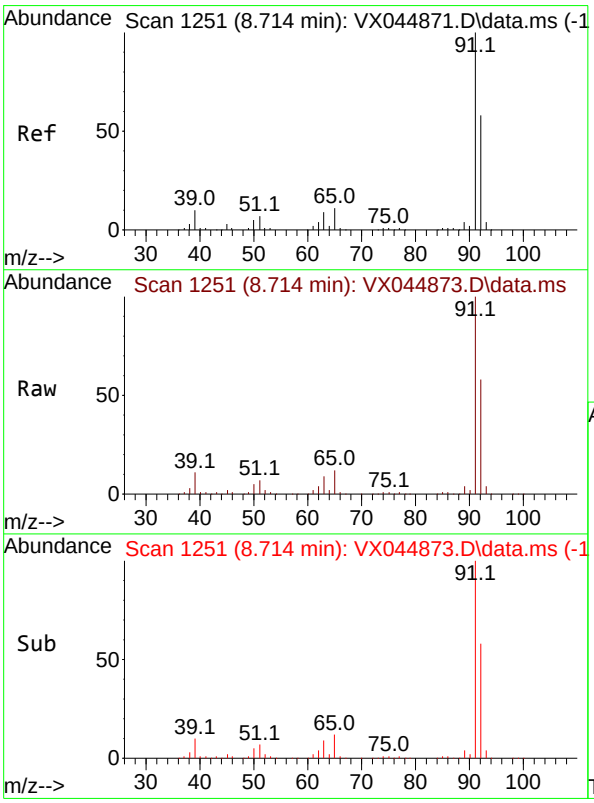
#51
4-Methyl-2-Pentanone
Concen: 728.887 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1736538

Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.8	46.2

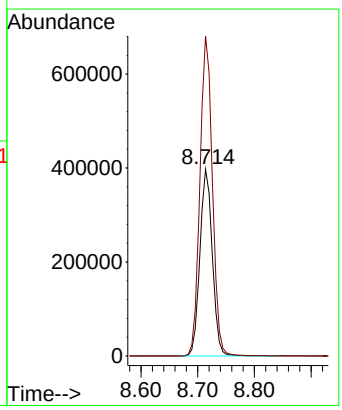


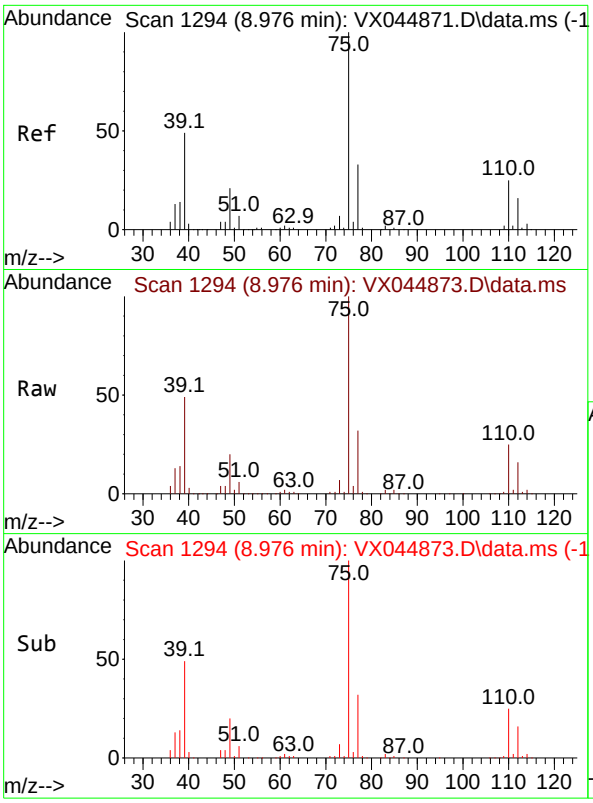


#52
Toluene
Concen: 148.645 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 92 Resp: 603113

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.4	206.2



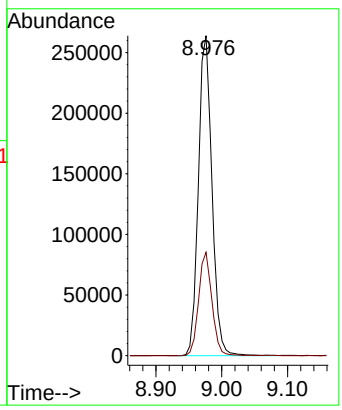


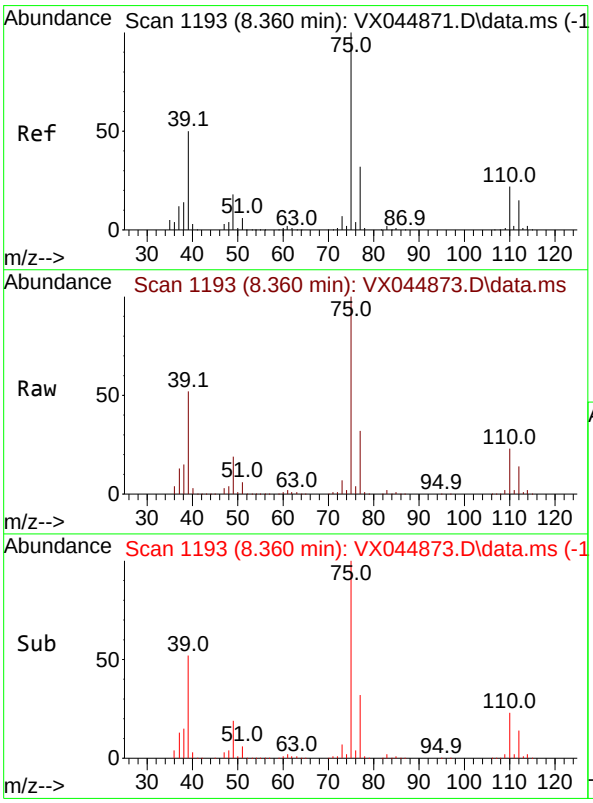
#53
t-1,3-Dichloropropene
Concen: 164.398 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 378639

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.0	39.0

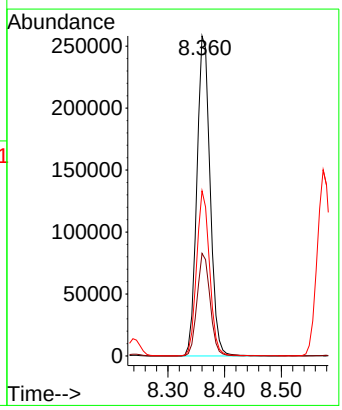


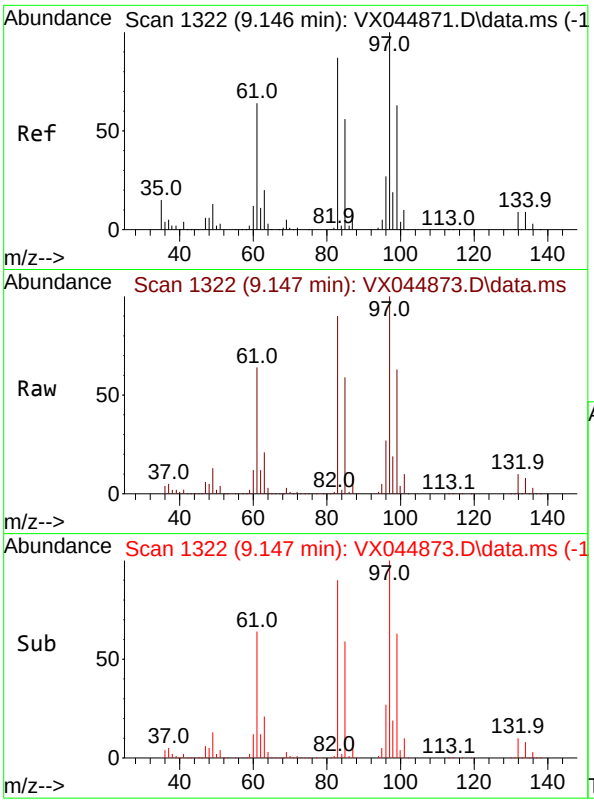


#54
cis-1,3-Dichloropropene
Concen: 162.667 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 417724

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.3	37.9
39	51.5	40.0	60.0



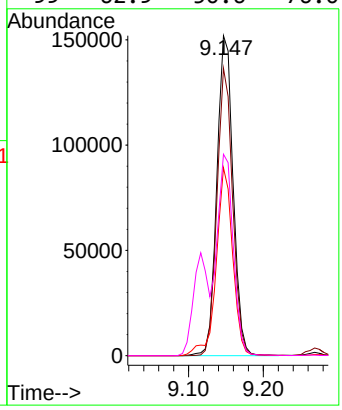


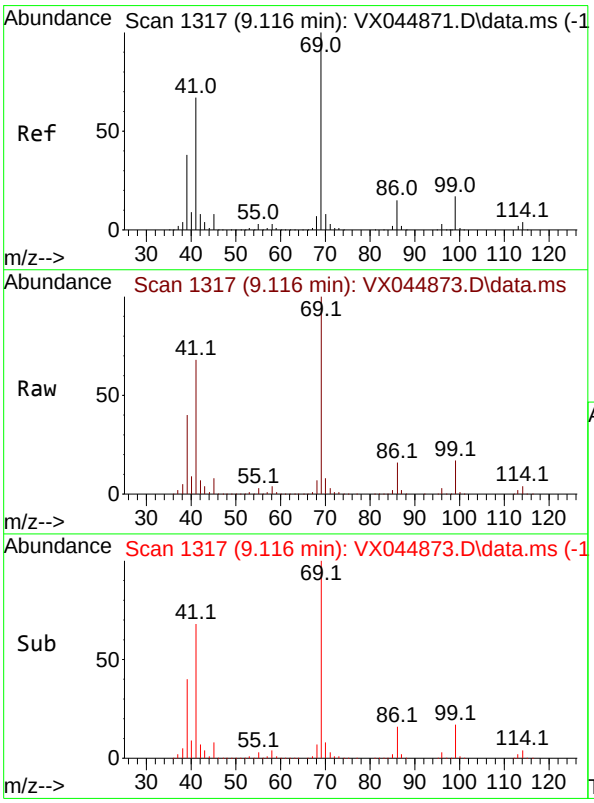
#55
1,1,2-Trichloroethane
Concen: 147.172 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 229548

Ion	Ratio	Lower	Upper
97	100		
83	89.8	69.8	104.6
85	58.7	44.8	67.2
99	62.9	50.6	76.0

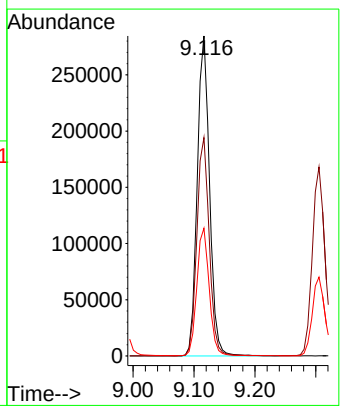


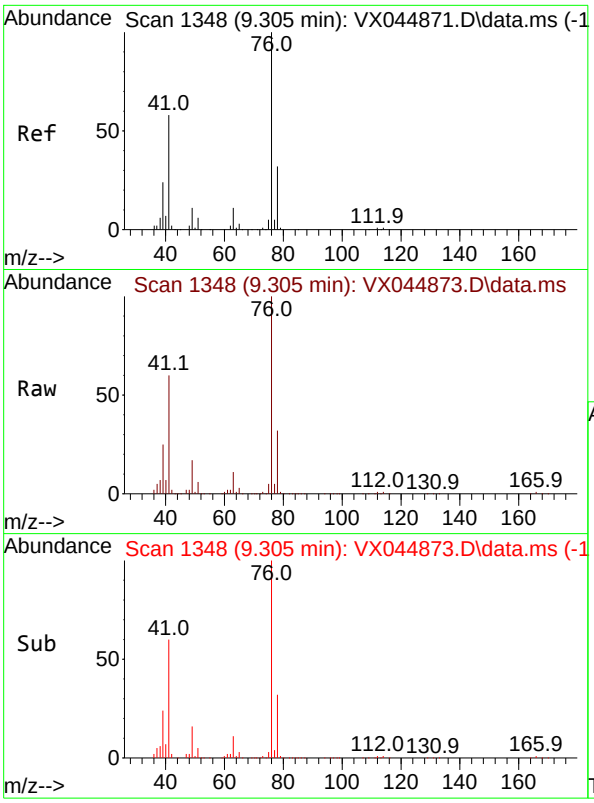


#56
Ethyl methacrylate
Concen: 158.205 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 69 Resp: 398535

Ion	Ratio	Lower	Upper
69	100		
41	68.7	55.2	82.8
39	40.0	30.8	46.2



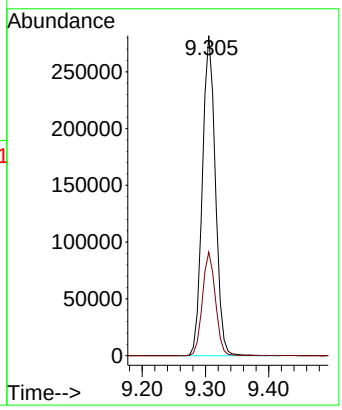


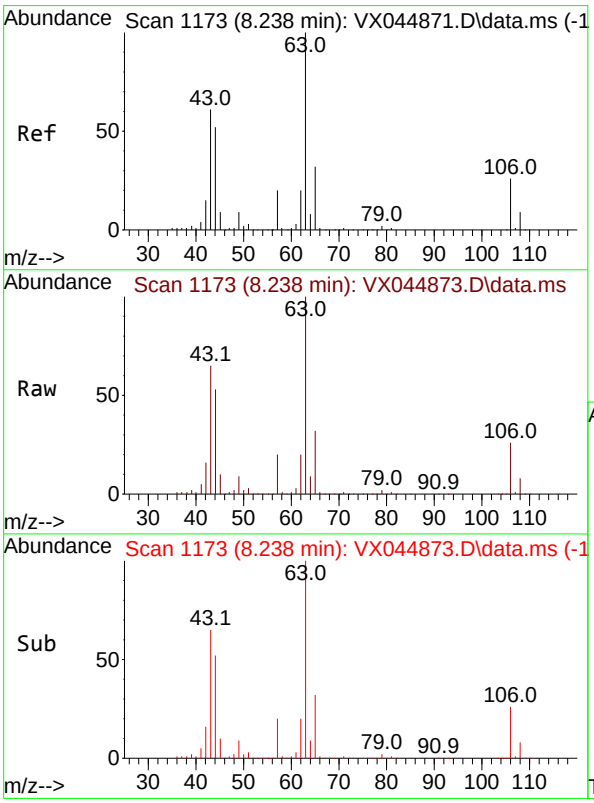
#57
1,3-Dichloropropane
Concen: 147.915 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 403665

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

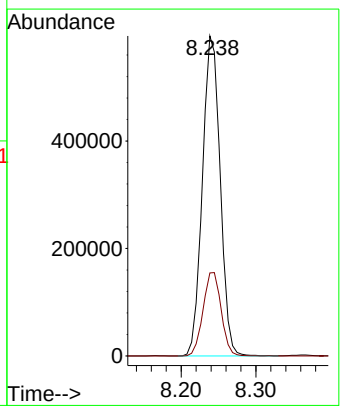


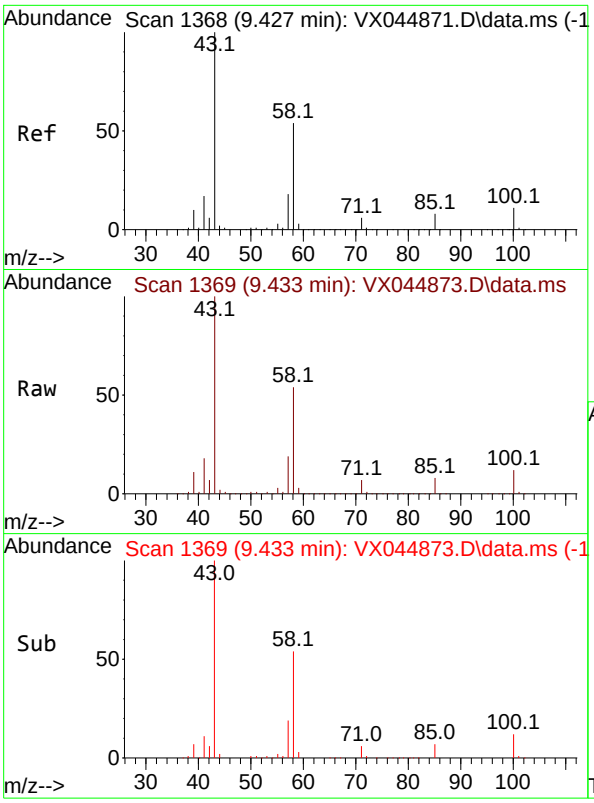


#58
2-Chloroethyl Vinyl ether
Concen: 794.010 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 63 Resp: 982120

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.3	31.9



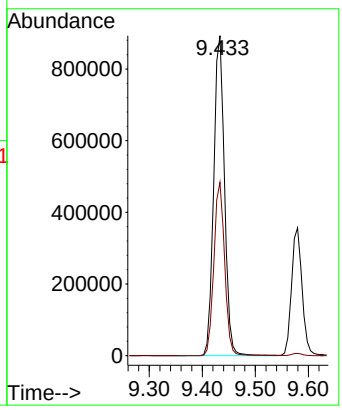


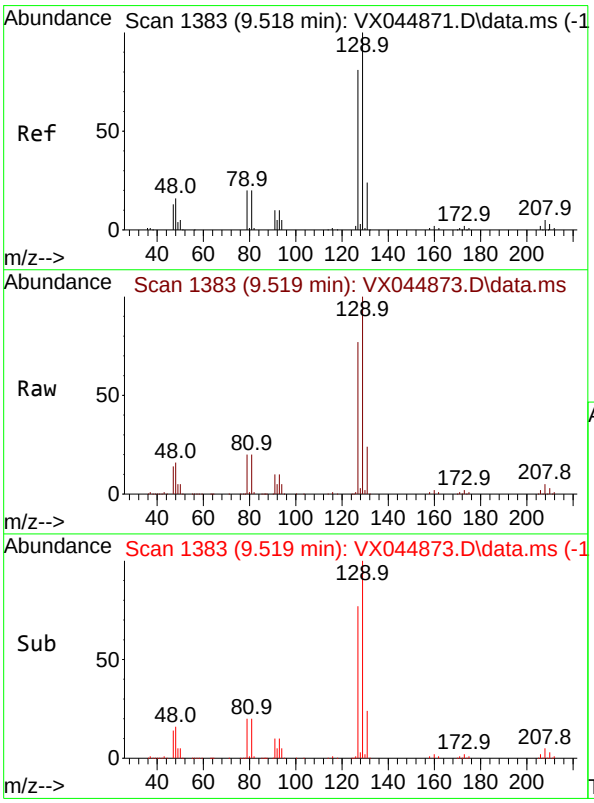
#59
2-Hexanone
Concen: 736.622 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1264470

Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.5	82.4

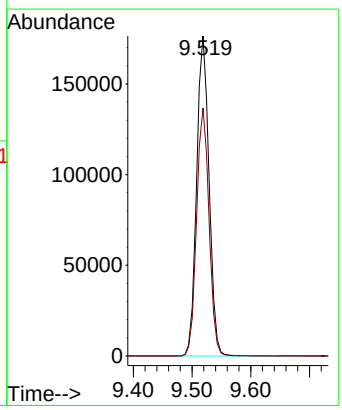


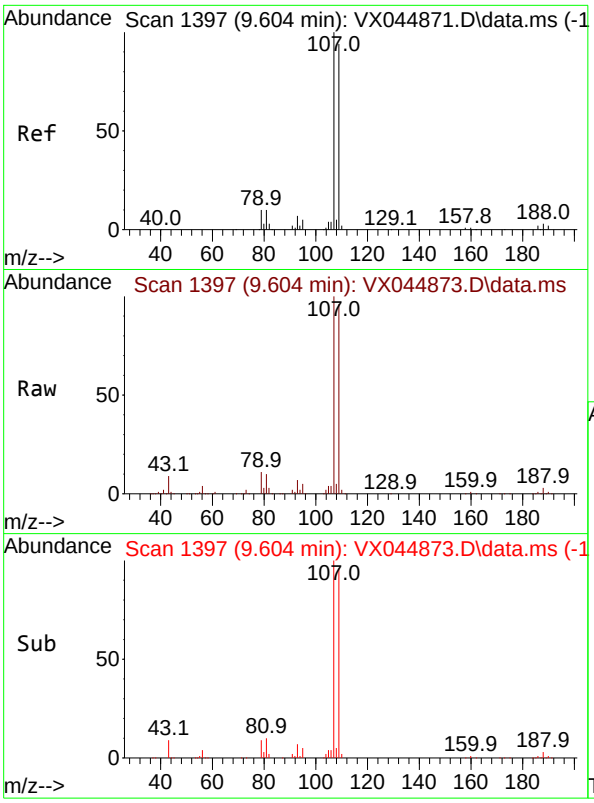


#60
Dibromochloromethane
Concen: 154.862 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:129 Resp: 258320

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.1	117.3



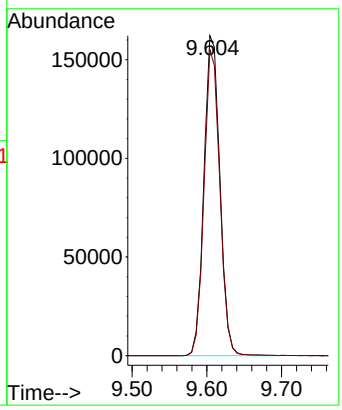


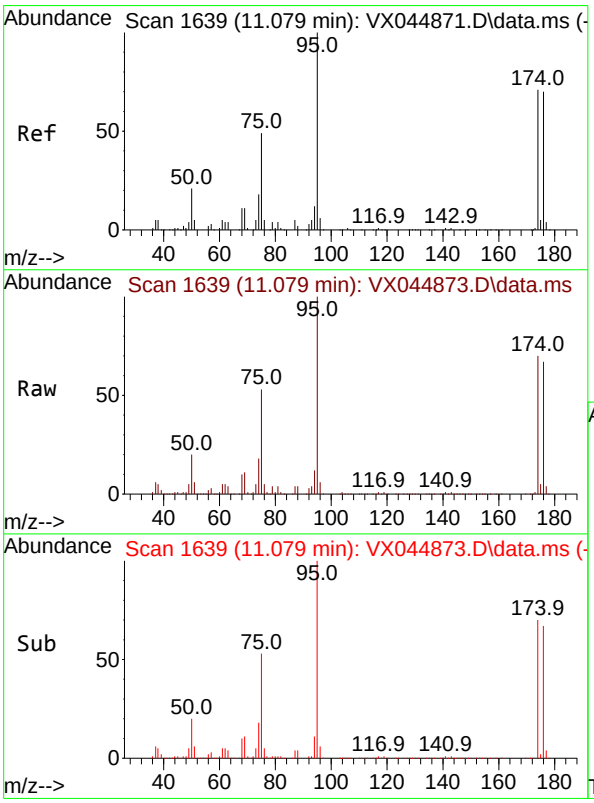
#61
1,2-Dibromoethane
Concen: 152.157 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 240539

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.9	113.9

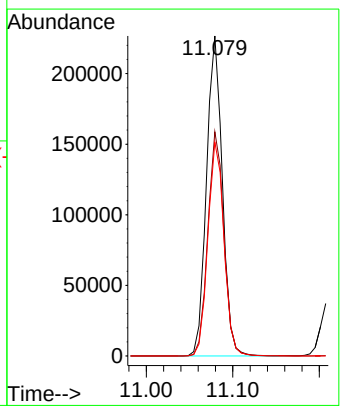


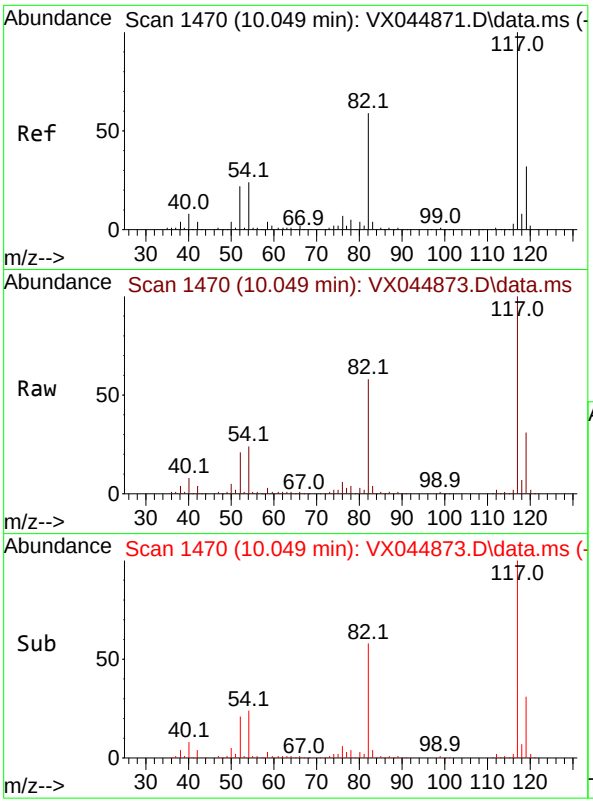


#62
4-Bromofluorobenzene
Concen: 149.124 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 95 Resp: 287486

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	142.6
176	68.0	0.0	141.6



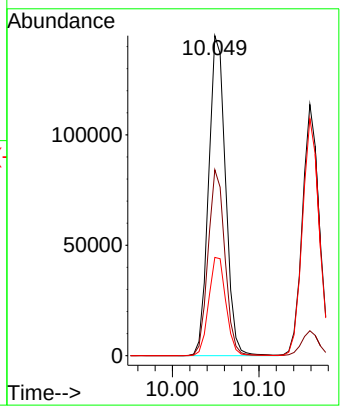


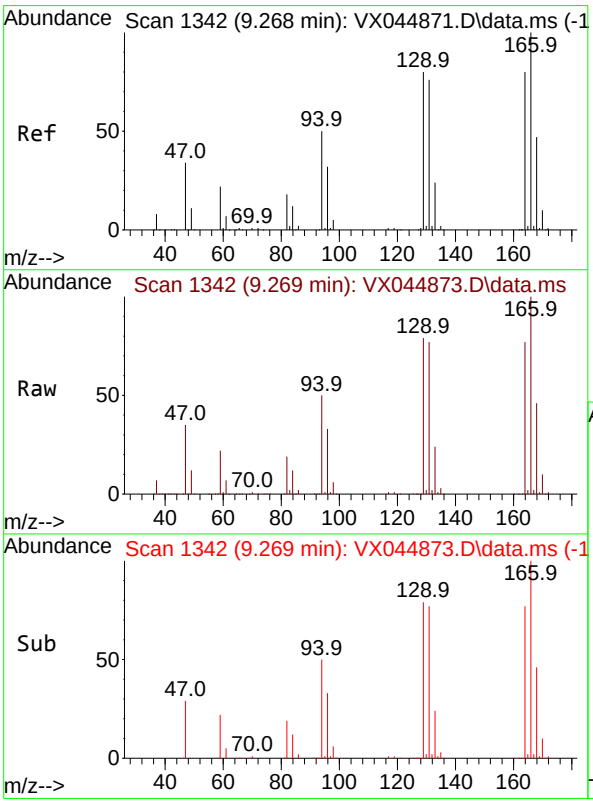
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 196663

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.5	71.3
119	30.7	25.4	38.0

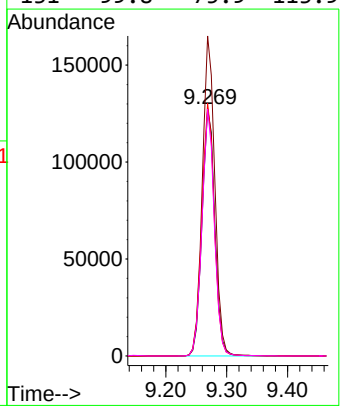


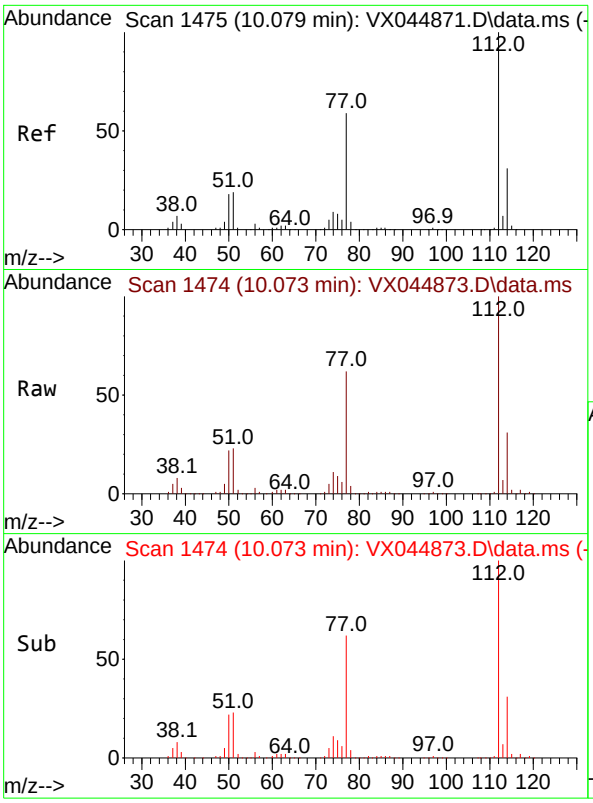


#64
Tetrachloroethene
Concen: 149.155 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:164 Resp: 184990

Ion	Ratio	Lower	Upper
164	100		
166	129.5	100.4	150.6
129	102.3	79.9	119.9
131	99.8	75.9	113.9



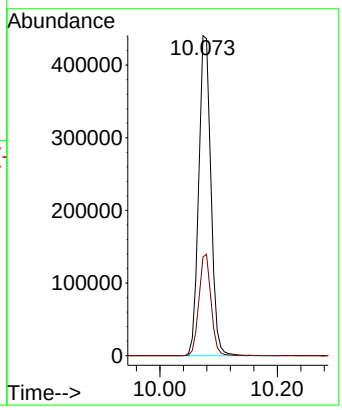


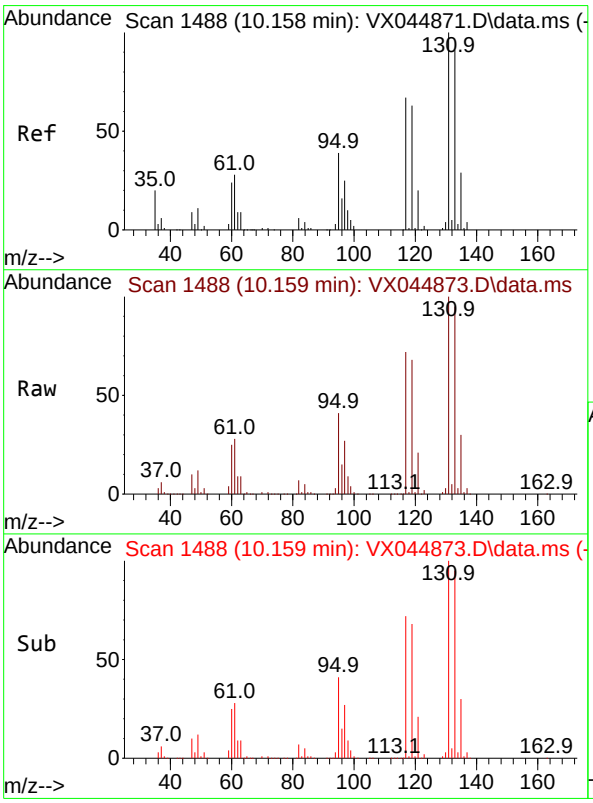
#65
Chlorobenzene
Concen: 150.224 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 634550

Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.0	37.6

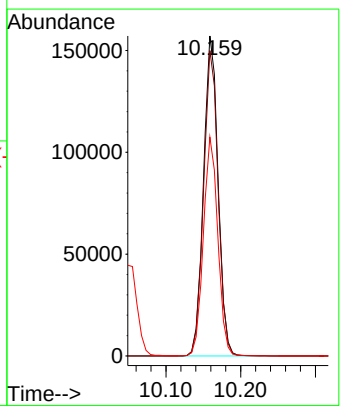


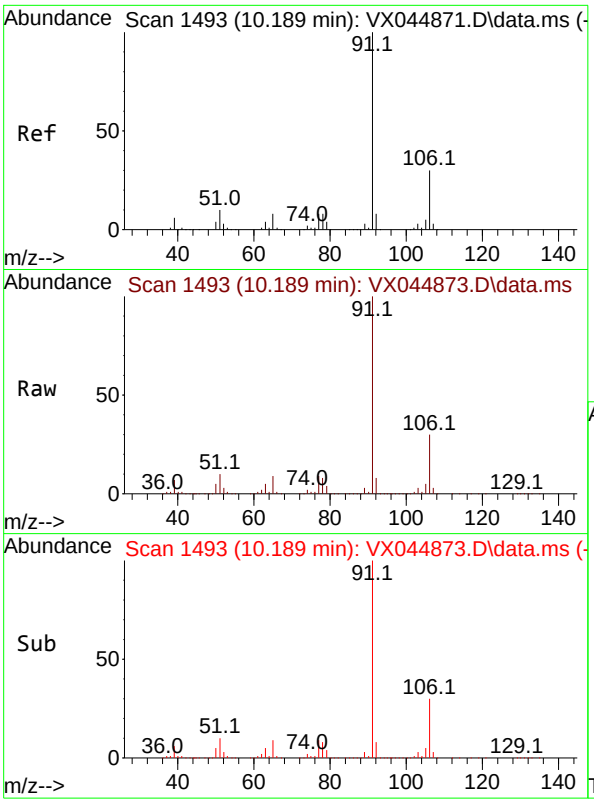


#66
1,1,1,2-Tetrachloroethane
Concen: 156.255 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:131 Resp: 212441

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.1	141.3
119	67.9	33.6	100.6



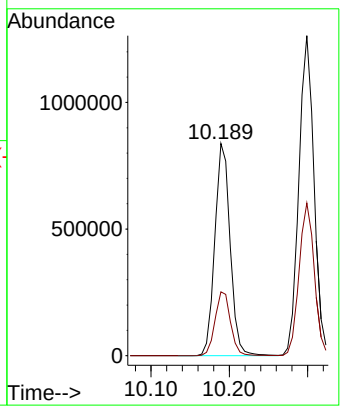


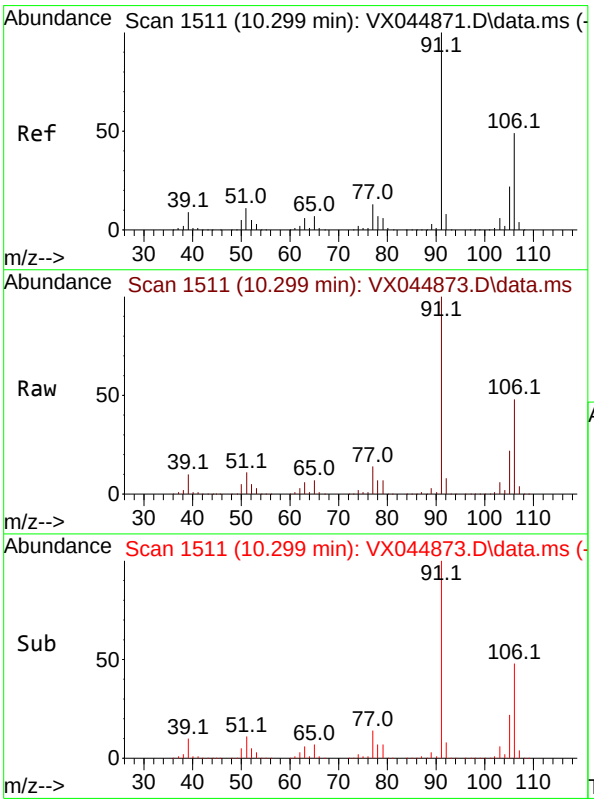
#67
Ethyl Benzene
Concen: 152.647 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1137842

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.9	35.9

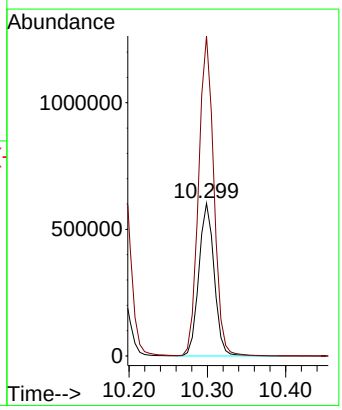


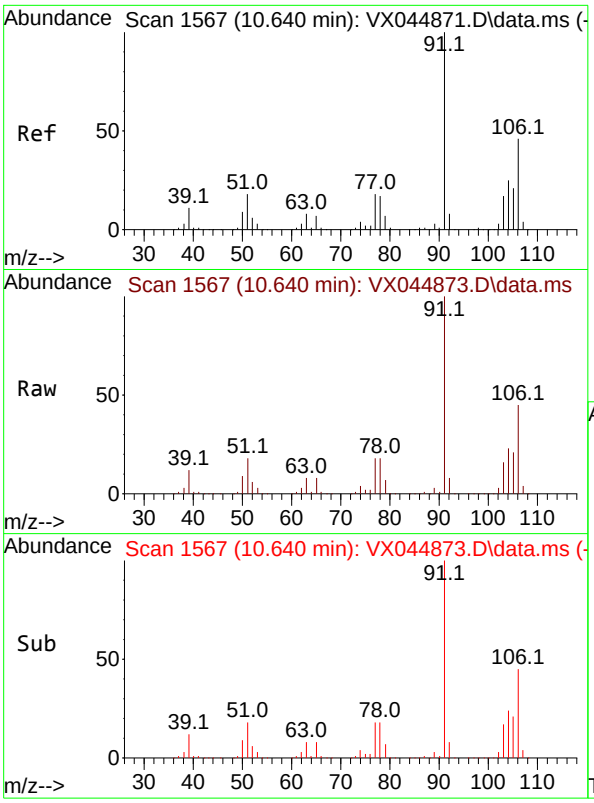


#68
m/p-Xylenes
Concen: 297.841 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:106 Resp: 818971

Ion	Ratio	Lower	Upper
106	100		
91	208.6	164.3	246.5



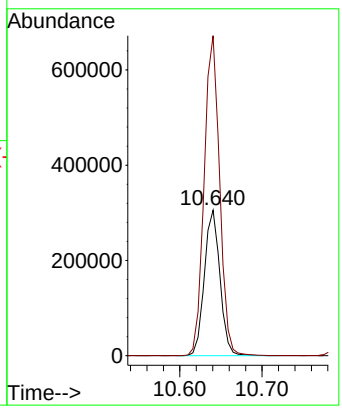


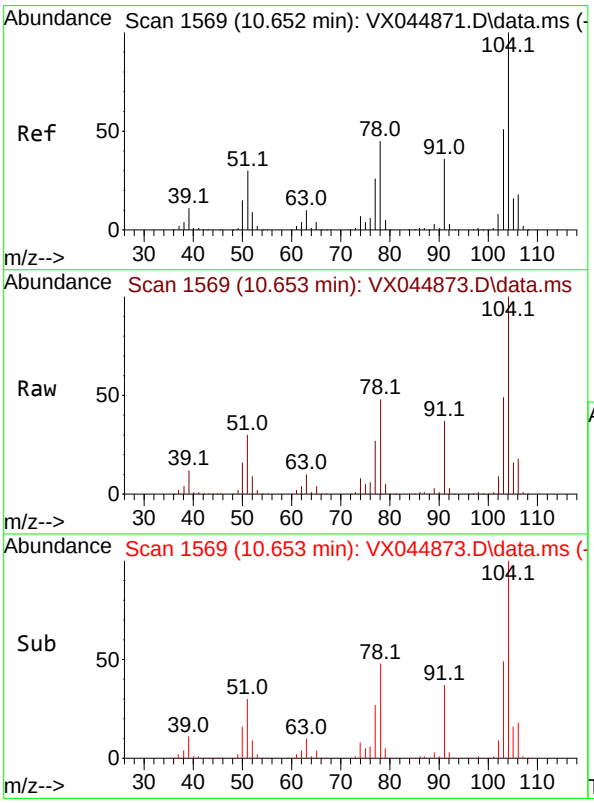
#69
o-Xylene
Concen: 145.674 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 401928

Ion	Ratio	Lower	Upper
106	100		
91	218.9	108.5	325.5

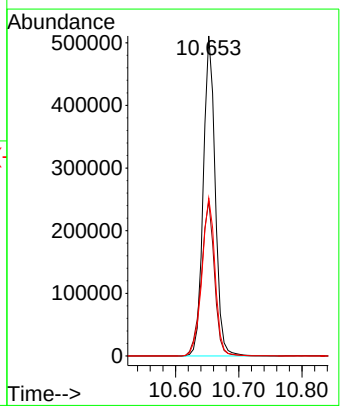


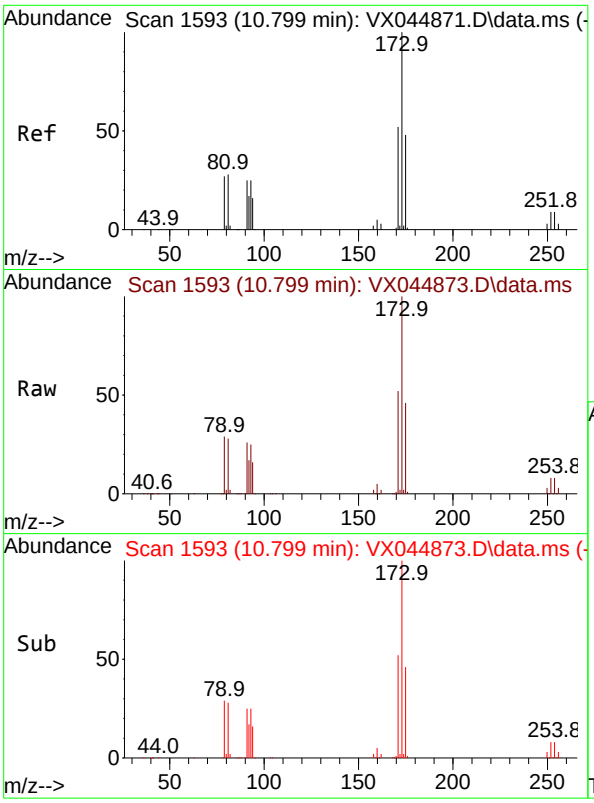


#70
Styrene
Concen: 151.140 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:104 Resp: 671843

Ion	Ratio	Lower	Upper
104	100		
78	53.0	40.5	60.7
103	54.5	43.6	65.4



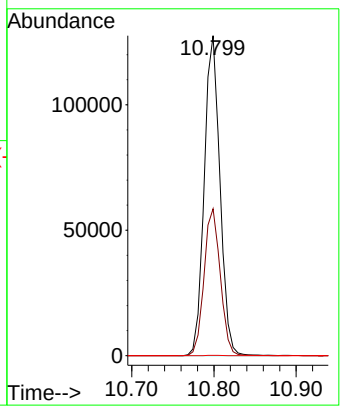


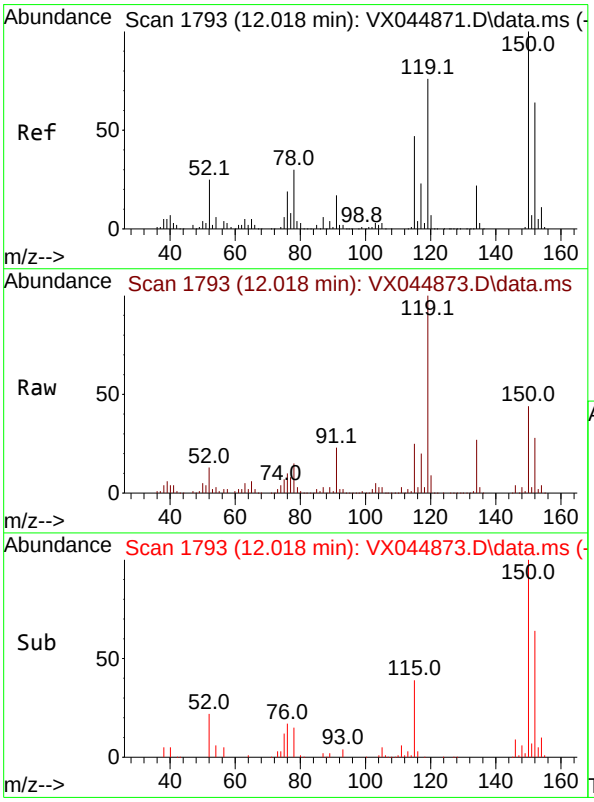
#71
Bromoform
Concen: 167.033 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 169481

Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	72.8
254	0.1	0.0	0.0#

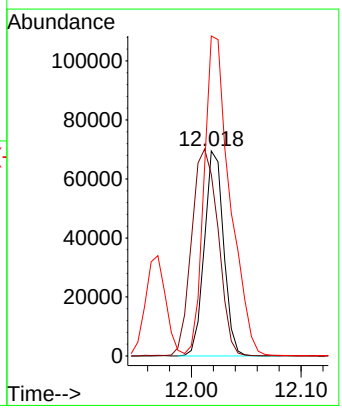


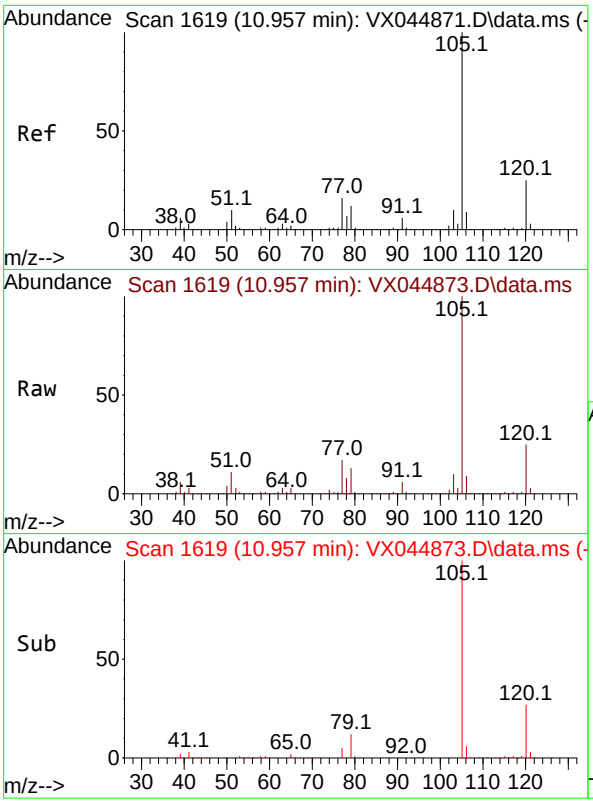


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:152 Resp: 84836

Ion	Ratio	Lower	Upper
152	100		
115	139.2	43.4	130.1#
150	209.6	0.0	350.4



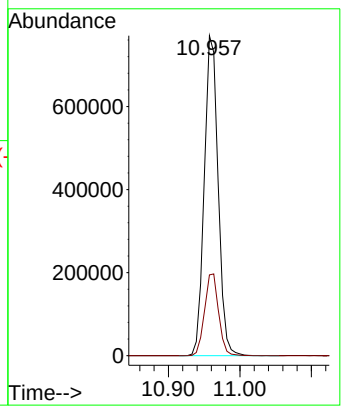


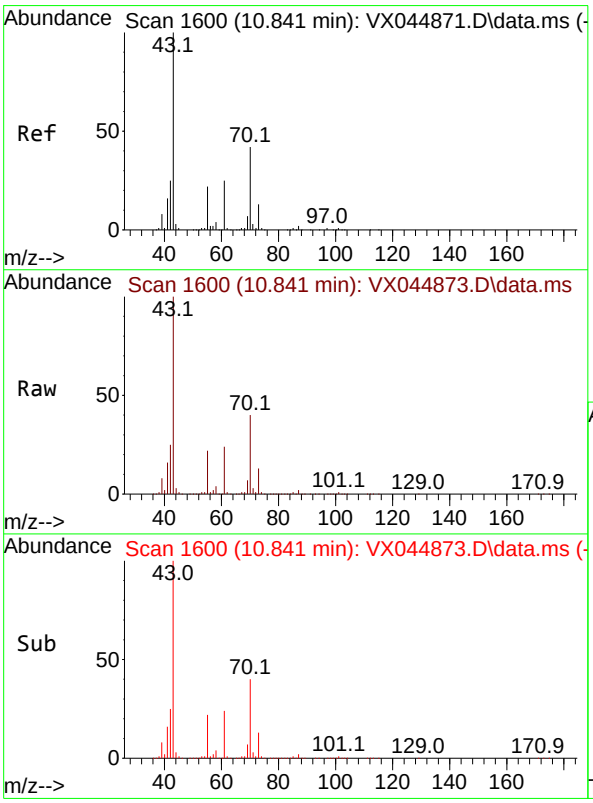
#73
Isopropylbenzene
Concen: 151.869 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1037402

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.5

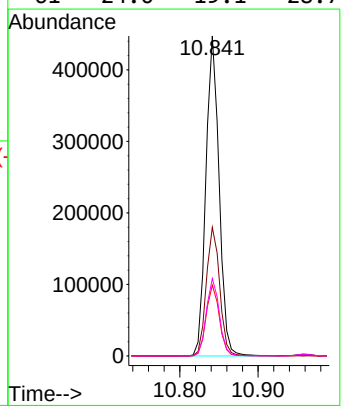


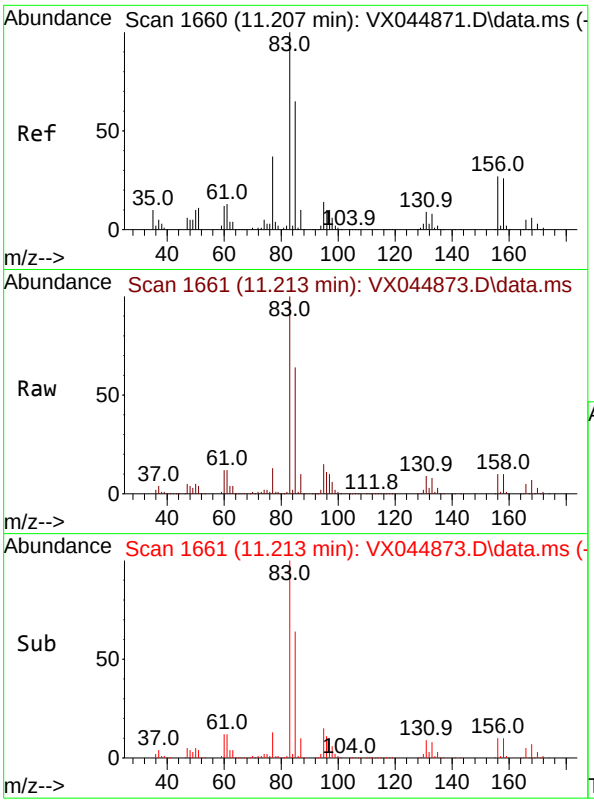


#74
N-amyl acetate
Concen: 168.861 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 43 Resp: 521962

Ion	Ratio	Lower	Upper
43	100		
70	41.0	33.7	50.5
55	22.3	18.6	27.8
61	24.0	19.1	28.7



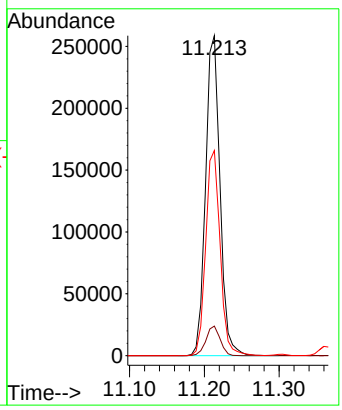


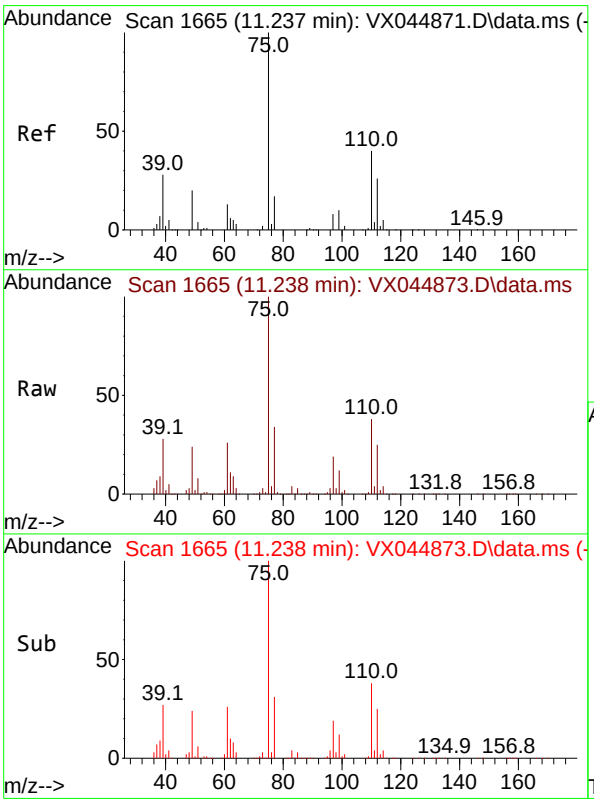
#75
1,1,2,2-Tetrachloroethane
Concen: 147.409 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 346013

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.5
85	64.3	32.3	96.8

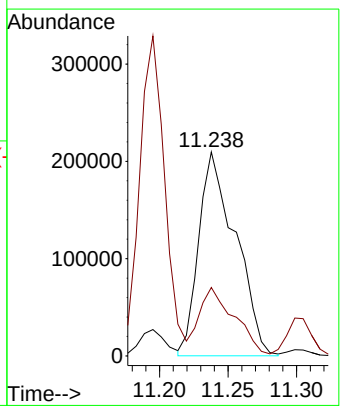


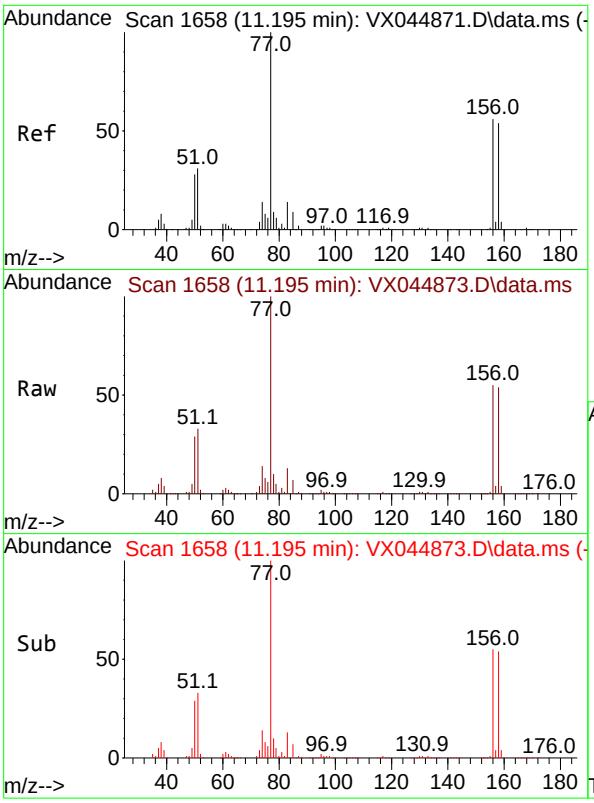


#76
1,2,3-Trichloropropane
Concen: 208.411 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 392008

Ion	Ratio	Lower	Upper
75	100		
77	32.2	21.9	65.7



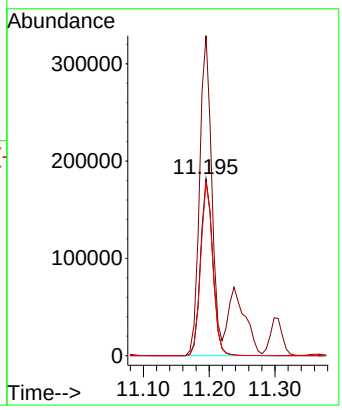


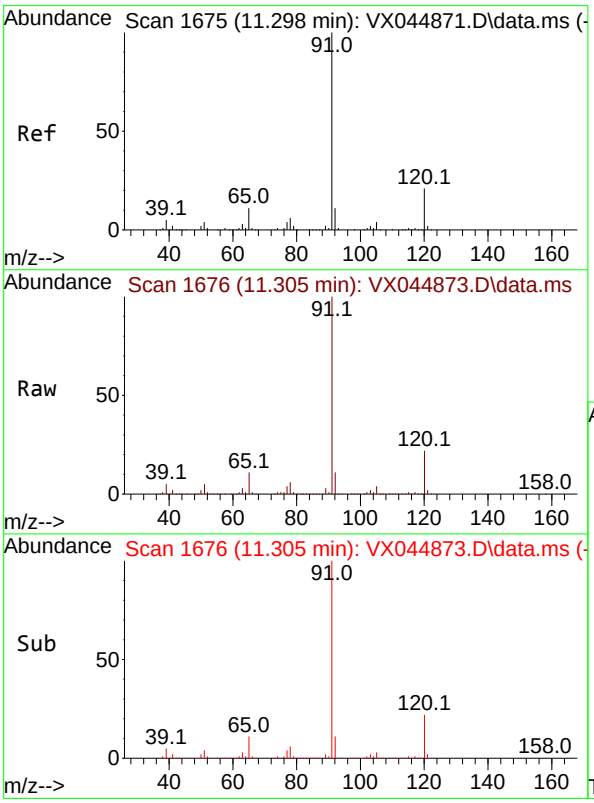
#77
Bromobenzene
Concen: 151.715 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 234957

Ion	Ratio	Lower	Upper
156	100		
77	179.2	88.4	265.3
158	97.1	48.4	145.2

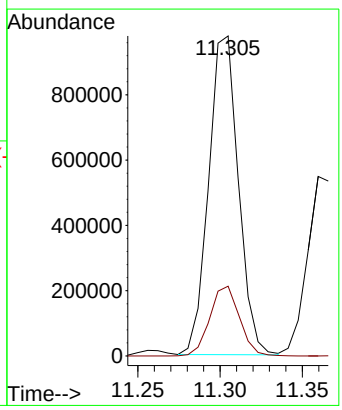


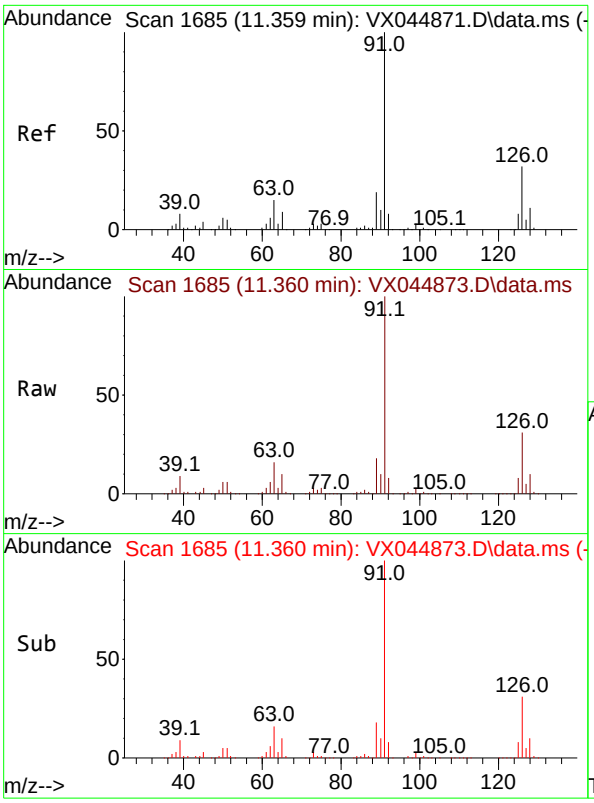


#78
n-propylbenzene
Concen: 156.140 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 1231079

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.1	33.3



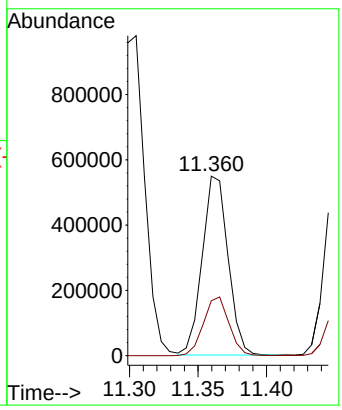


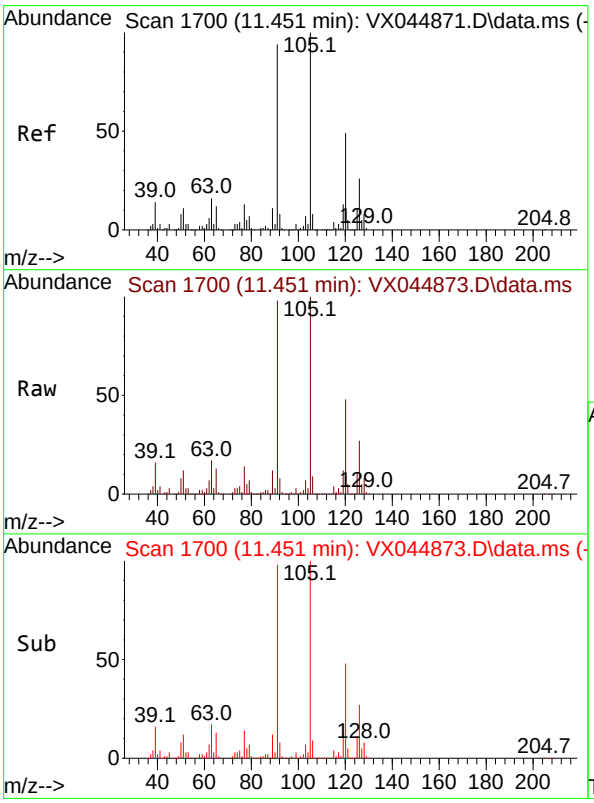
#79
2-Chlorotoluene
Concen: 148.123 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 717766

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.2	48.6

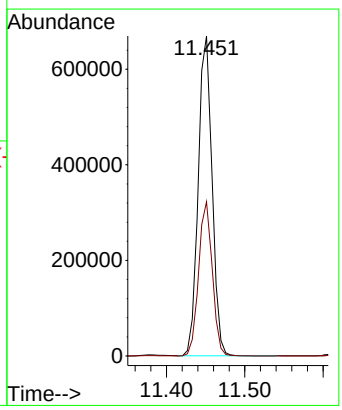


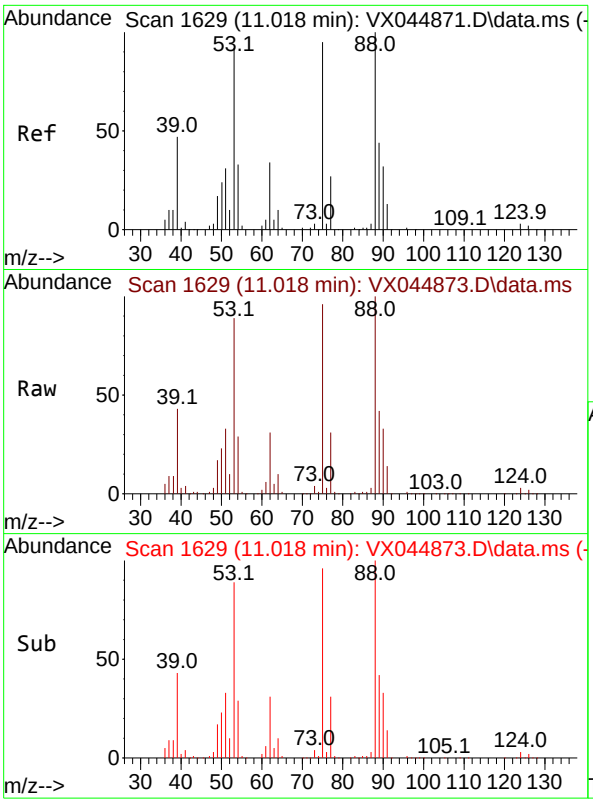


#80
1,3,5-Trimethylbenzene
Concen: 148.415 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 822707

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.0	72.0



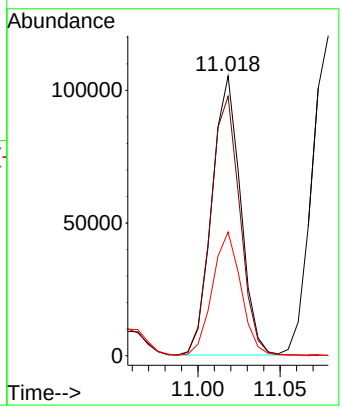


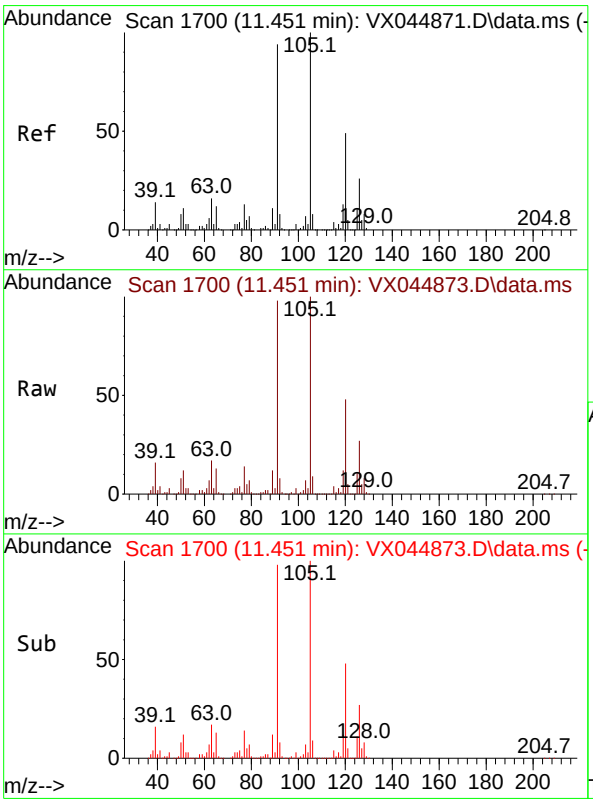
#81
trans-1,4-Dichloro-2-butene
Concen: 173.221 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 126660

Ion	Ratio	Lower	Upper
75	100		
53	95.2	78.0	117.0
89	44.7	36.6	54.8

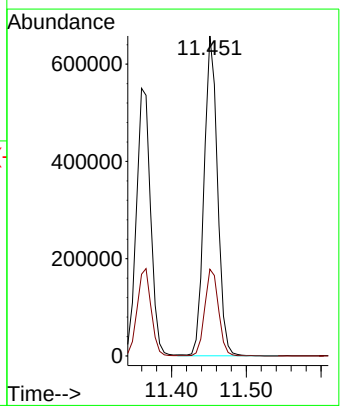


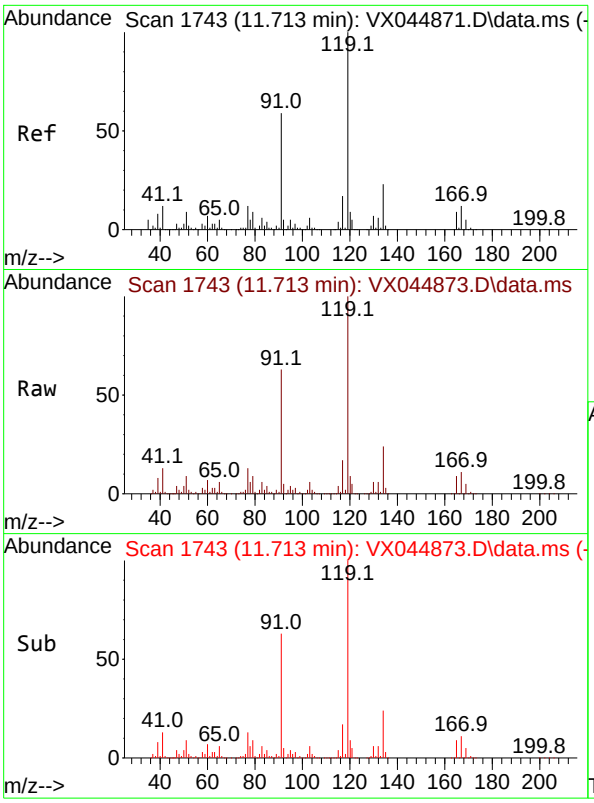


#82
4-Chlorotoluene
Concen: 152.602 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 91 Resp: 818099

Ion	Ratio	Lower	Upper
91	100		
126	27.9	14.2	42.6



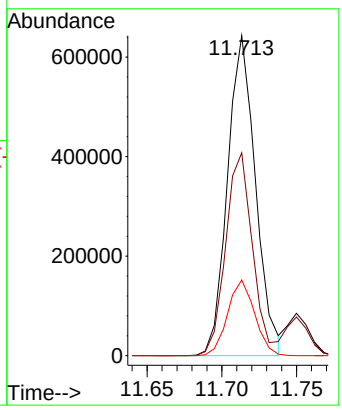


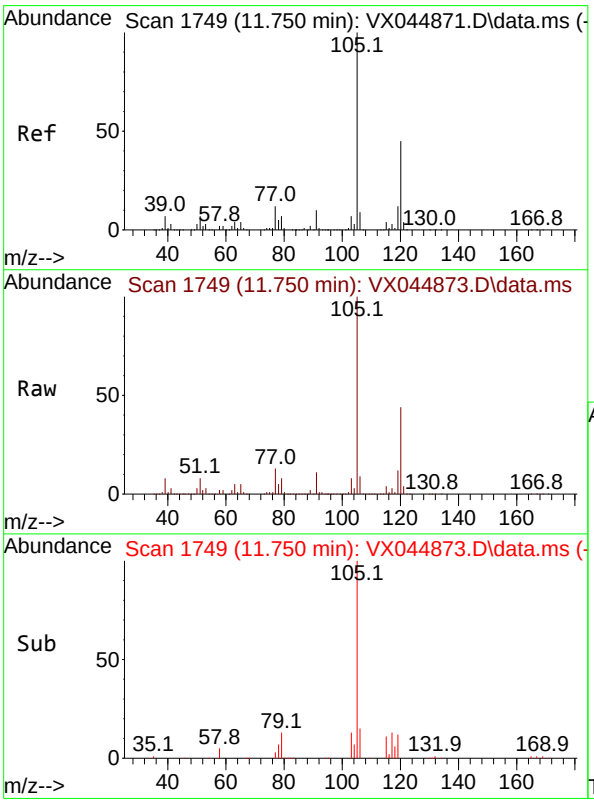
#83
tert-Butylbenzene
Concen: 149.610 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 838979

Ion	Ratio	Lower	Upper
119	100		
91	61.1	29.1	87.4
134	22.9	11.5	34.5

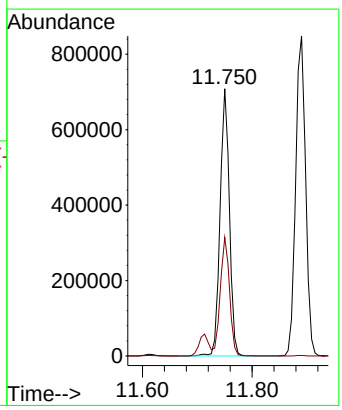


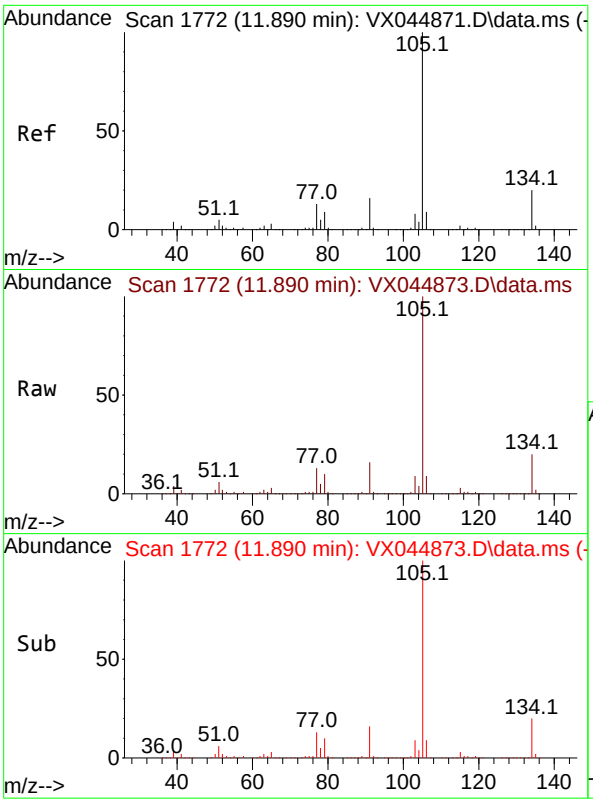


#84
1,2,4-Trimethylbenzene
Concen: 153.274 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:105 Resp: 838584

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.0



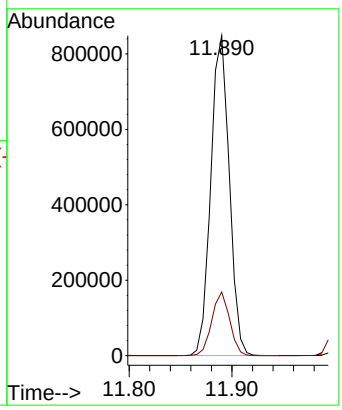


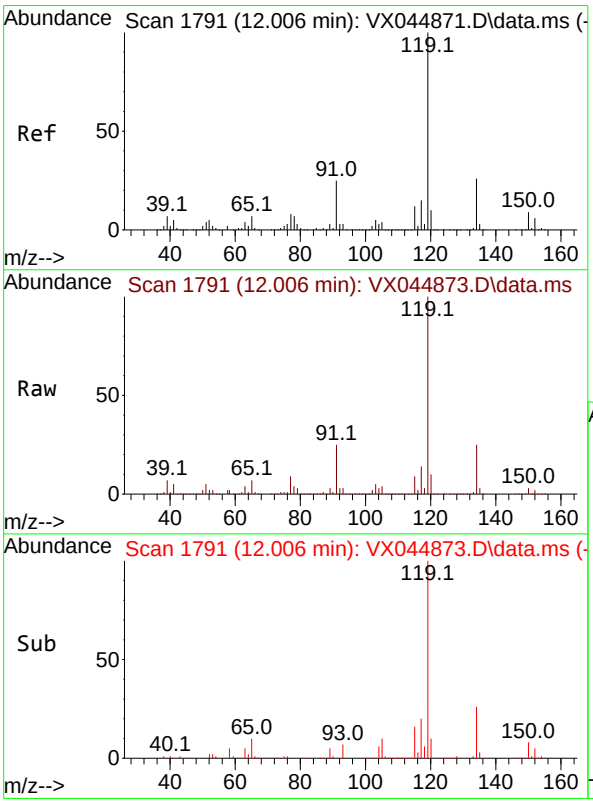
#85
sec-Butylbenzene
Concen: 152.806 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1061101

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.3

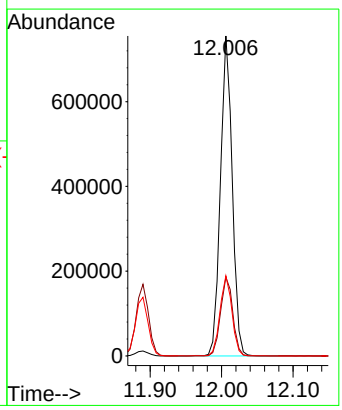


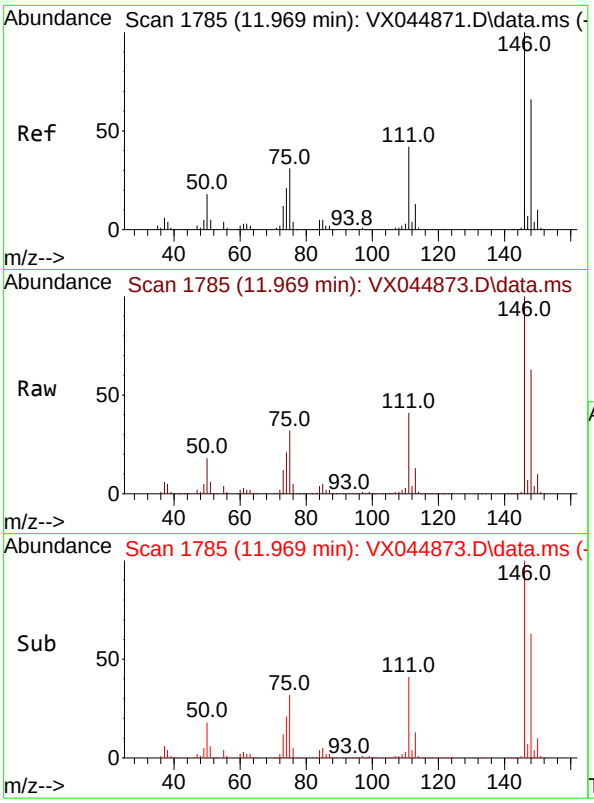


#86
p-Isopropyltoluene
Concen: 154.987 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:119 Resp: 865491

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	38.9
91	25.3	12.1	36.3



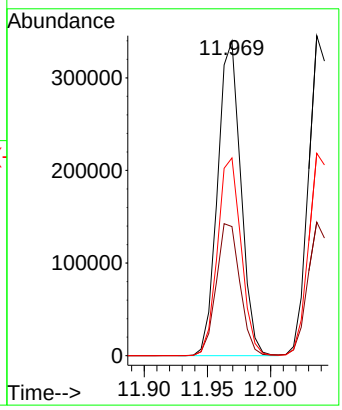


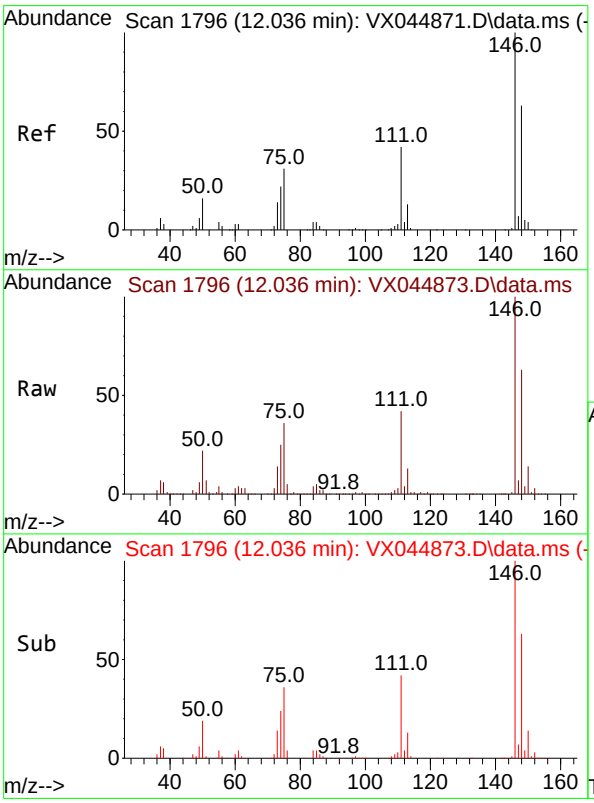
#87
1,3-Dichlorobenzene
Concen: 152.175 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 433384

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.2	63.6
148	63.9	32.5	97.5

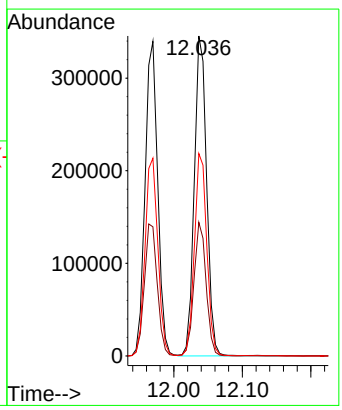


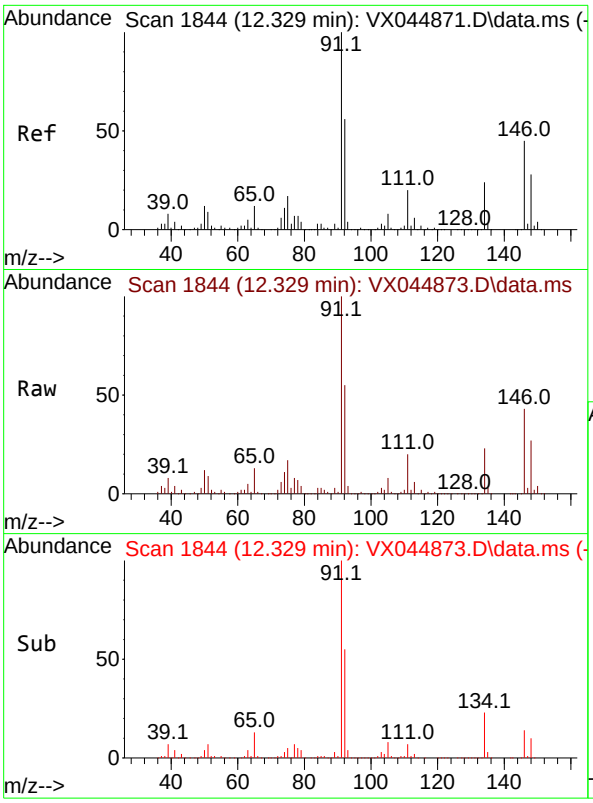


#88
1,4-Dichlorobenzene
Concen: 150.362 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:146 Resp: 432987

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.3
148	63.7	32.0	96.0



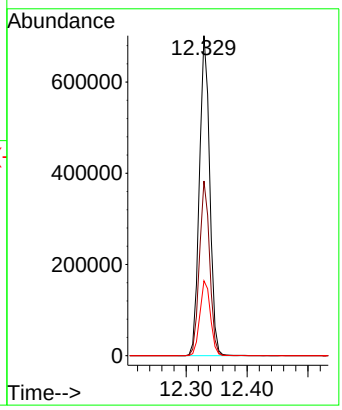


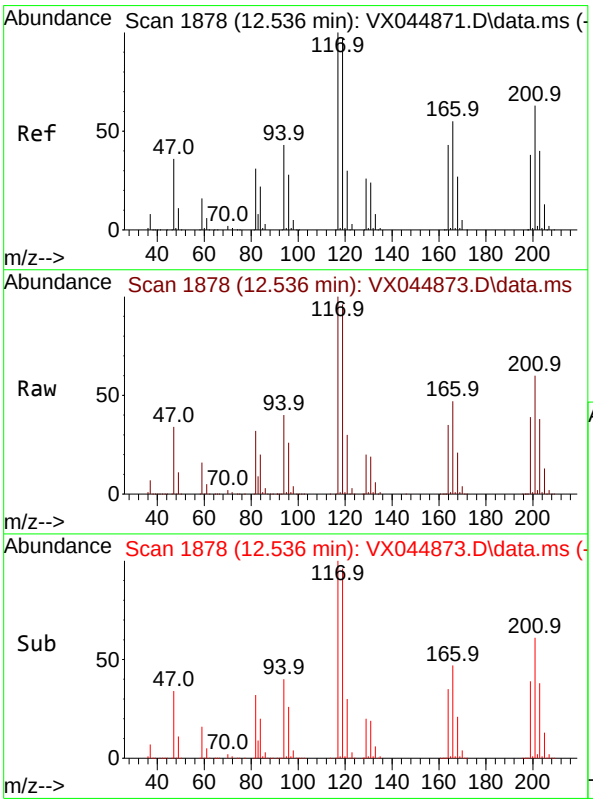
#89
n-Butylbenzene
Concen: 167.469 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 827359

Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.6
134	24.0	12.1	36.3

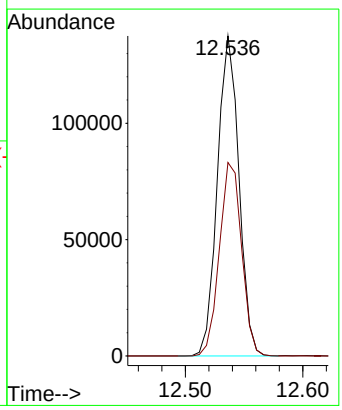


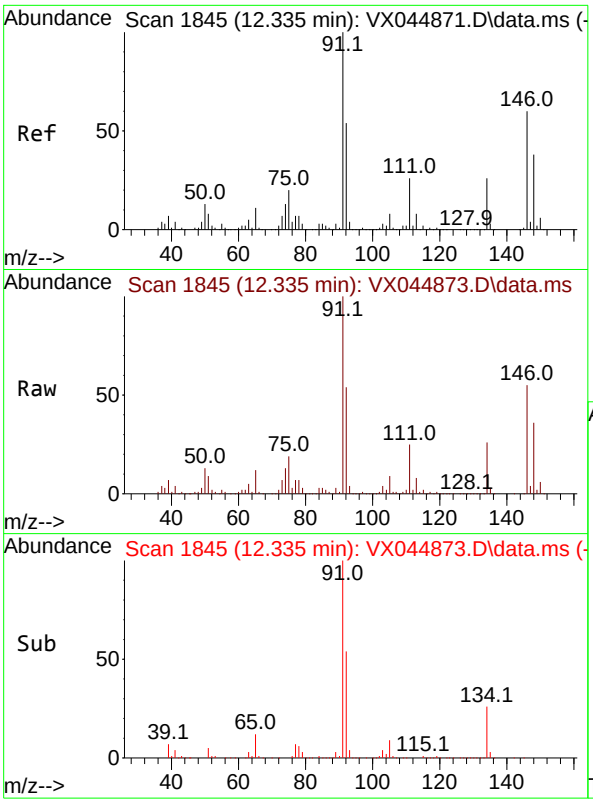


#90
Hexachloroethane
Concen: 167.760 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:117 Resp: 175414

Ion	Ratio	Lower	Upper
117	100		
201	62.4	32.5	97.5



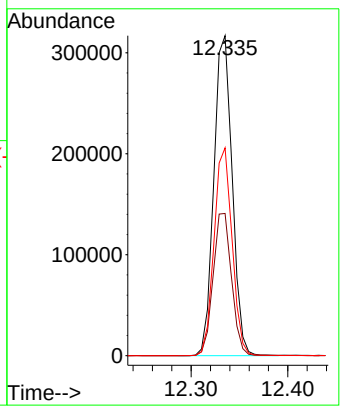


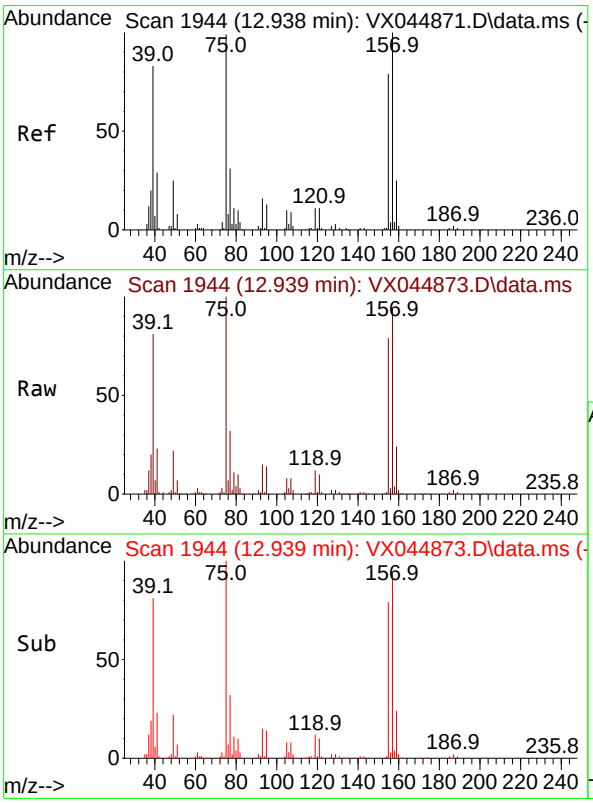
#91
1,2-Dichlorobenzene
Concen: 149.042 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 417167

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.8	65.4
148	64.1	31.9	95.9

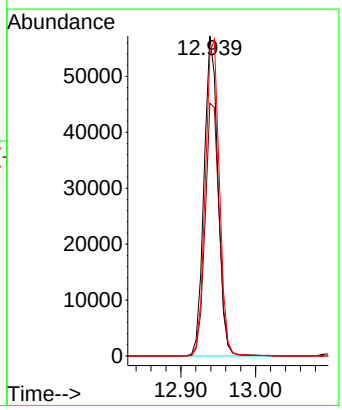


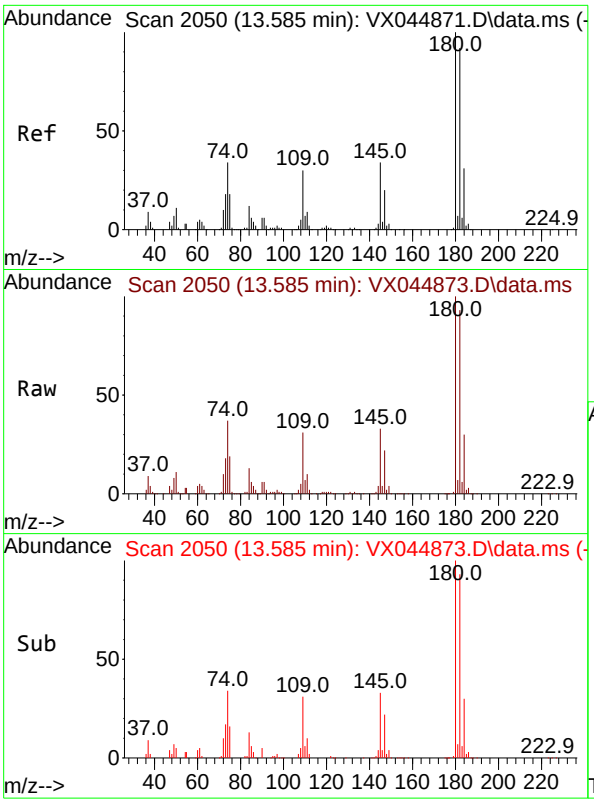


#92
1,2-Dibromo-3-Chloropropane
Concen: 171.783 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion: 75 Resp: 73593

Ion	Ratio	Lower	Upper
75	100		
155	80.1	40.5	121.4
157	100.5	51.4	154.3



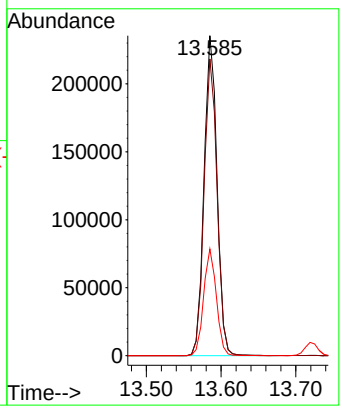


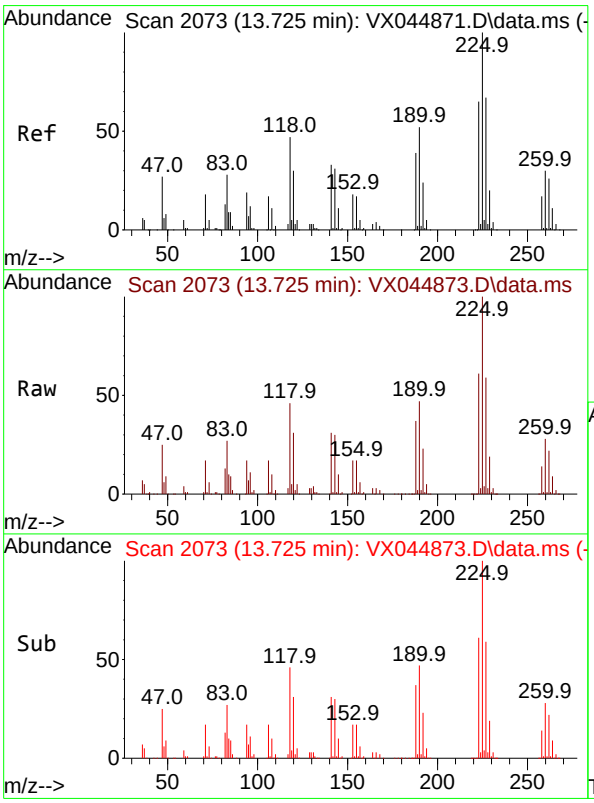
#93
1,2,4-Trichlorobenzene
Concen: 167.095 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 283004

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.6	142.8
145	32.8	16.4	49.1

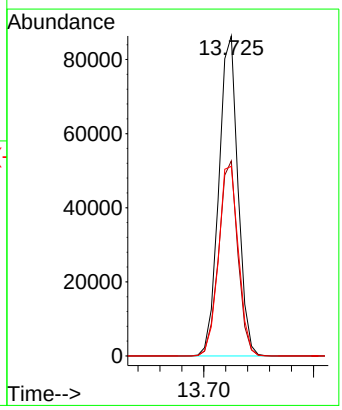


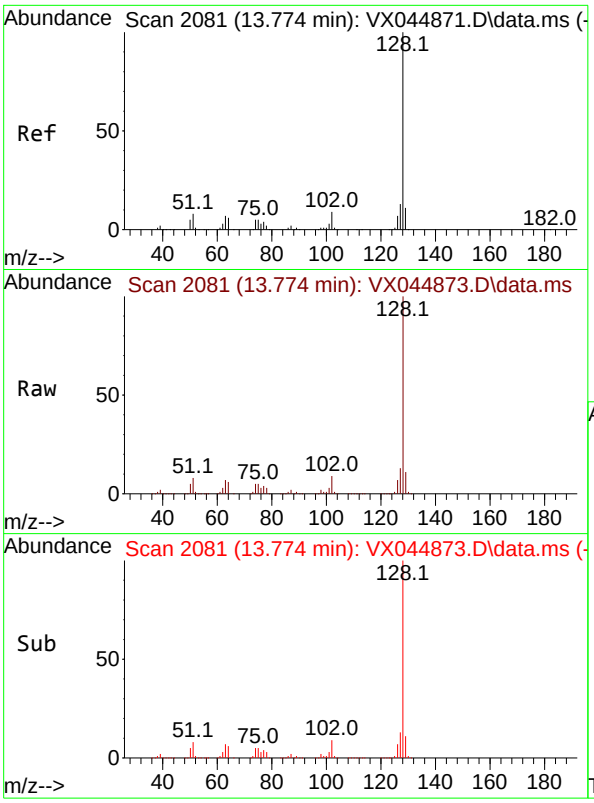


#94
Hexachlorobutadiene
Concen: 155.682 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:225 Resp: 104674

Ion	Ratio	Lower	Upper
225	100		
223	60.9	31.4	94.2
227	61.9	32.3	96.8



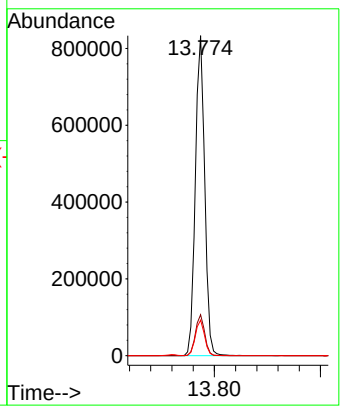


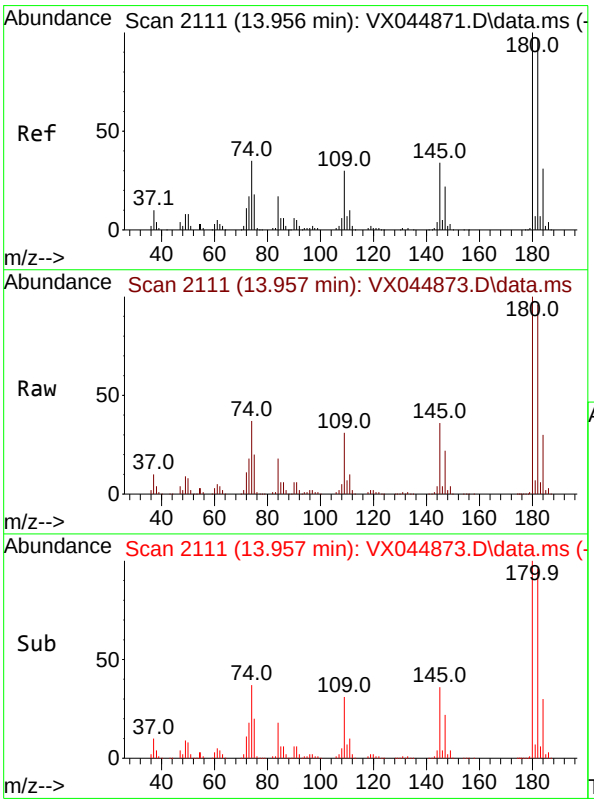
#95
Naphthalene
Concen: 165.916 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1015801

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	11.0	8.9	13.3

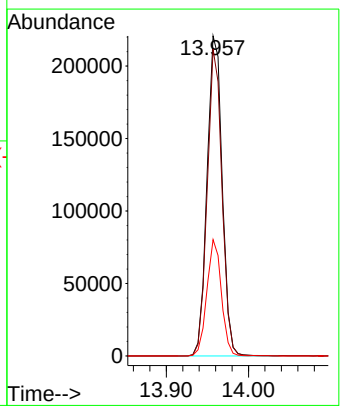




#96
1,2,3-Trichlorobenzene
Concen: 165.408 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044873.D
Acq: 10 Feb 2025 12:28

Tgt Ion:180 Resp: 282289

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.9	143.6
145	34.9	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	135936	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	245098	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	213248	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	97087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95635	48.061	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.120%			
35) Dibromofluoromethane	5.379	113	78360	49.173	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.340%			
50) Toluene-d8	8.647	98	299178	49.649	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.300%			
62) 4-Bromofluorobenzene	11.079	95	105201	51.786	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	93752	49.173	ug/l	99
3) Chloromethane	1.300	50	110431	47.590	ug/l	98
4) Vinyl Chloride	1.374	62	105730	47.033	ug/l	100
5) Bromomethane	1.593	94	31428	46.719	ug/l	97
6) Chloroethane	1.660	64	37913	42.198	ug/l	99
7) Trichlorofluoromethane	1.867	101	138044	48.558	ug/l	97
8) Diethyl Ether	2.130	74	49018	47.544	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	86892	50.588	ug/l	98
10) Methyl Iodide	2.447	142	111488	50.082	ug/l	100
11) Tert butyl alcohol	2.983	59	92949	251.791	ug/l	100
12) 1,1-Dichloroethene	2.306	96	83987	47.935	ug/l	95
13) Acrolein	2.233	56	91744	240.879	ug/l	98
14) Allyl chloride	2.654	41	155084	48.976	ug/l	99
15) Acrylonitrile	3.062	53	247921	251.537	ug/l	99
16) Acetone	2.379	43	205743	257.198	ug/l	98
17) Carbon Disulfide	2.501	76	237694	49.472	ug/l	100
18) Methyl Acetate	2.703	43	126015	49.920	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	275685	49.453	ug/l	99
20) Methylene Chloride	2.782	84	94006	47.978	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	84720	49.129	ug/l	98
22) Diisopropyl ether	3.757	45	300357	50.138	ug/l	98
23) Vinyl Acetate	3.715	43	1257431	257.465	ug/l	100
24) 1,1-Dichloroethane	3.599	63	165351	49.329	ug/l	99
25) 2-Butanone	4.556	43	335358	258.175	ug/l	97
26) 2,2-Dichloropropane	4.464	77	133670	50.285	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	102518	49.493	ug/l	99
28) Bromochloromethane	4.891	49	72893	45.250	ug/l	99
29) Tetrahydrofuran	5.001	42	218496	253.318	ug/l	100
30) Chloroform	5.086	83	157312	48.393	ug/l	98
31) Cyclohexane	5.458	56	152073	49.211	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	134626	48.825	ug/l	100
36) 1,1-Dichloropropene	5.684	75	111968	48.702	ug/l	99
37) Ethyl Acetate	4.708	43	126071	49.300	ug/l	99
38) Carbon Tetrachloride	5.672	117	110581	49.083	ug/l	97
39) Methylcyclohexane	7.372	83	158289	53.254	ug/l	98
40) Benzene	6.031	78	358365	49.919	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	73559	53.741	ug/l		99
42) 1,2-Dichloroethane	6.080	62	115339	50.410	ug/l		100
43) Isopropyl Acetate	6.336	43	213901	51.798	ug/l		100
44) Trichloroethene	7.116	130	81911	49.917	ug/l		99
45) 1,2-Dichloropropane	7.427	63	89992	50.387	ug/l		98
46) Dibromomethane	7.580	93	61360	49.540	ug/l		99
47) Bromodichloromethane	7.818	83	122265	50.980	ug/l		99
48) Methyl methacrylate	7.690	41	102900	52.848	ug/l		99
49) 1,4-Dioxane	7.659	88	42658	1021.138	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	665564	265.112	ug/l		100
52) Toluene	8.714	92	216682	50.680	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	130405	53.731	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	143379	52.986	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	83510	50.811	ug/l		100
56) Ethyl methacrylate	9.116	69	143524	54.068	ug/l		99
57) 1,3-Dichloropropane	9.305	76	146236	50.852	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	370622	284.352	ug/l		99
59) 2-Hexanone	9.427	43	488298	269.951	ug/l		99
60) Dibromochloromethane	9.518	129	90826	51.673	ug/l		99
61) 1,2-Dibromoethane	9.604	107	85683	51.436	ug/l		100
64) Tetrachloroethene	9.268	164	66468	49.424	ug/l		98
65) Chlorobenzene	10.079	112	233373	50.952	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	75488	51.205	ug/l		98
67) Ethyl Benzene	10.189	91	415575	51.415	ug/l		99
68) m/p-Xylenes	10.299	106	310925	104.282	ug/l		100
69) o-Xylene	10.640	106	151995	50.804	ug/l		100
70) Styrene	10.652	104	257972	53.521	ug/l		100
71) Bromoform	10.799	173	59409	53.997	ug/l	#	100
73) Isopropylbenzene	10.957	105	390246	49.921	ug/l		100
74) N-amyl acetate	10.841	43	186145	52.621	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	129829	48.331	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	143167	66.510	ug/l		83
77) Bromobenzene	11.195	156	88129	49.725	ug/l		100
78) n-propylbenzene	11.299	91	463655	51.386	ug/l		99
79) 2-Chlorotoluene	11.360	91	272091	49.065	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	323251	50.956	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	44070	52.665	ug/l		99
82) 4-Chlorotoluene	11.451	91	312112	50.872	ug/l		100
83) tert-Butylbenzene	11.713	119	321772	50.139	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	323035	51.593	ug/l		100
85) sec-Butylbenzene	11.890	105	410197	51.617	ug/l		100
86) p-Isopropyltoluene	12.006	119	336027	52.581	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	164508	50.475	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	163203	49.526	ug/l		100
89) n-Butylbenzene	12.329	91	311764	55.142	ug/l		100
90) Hexachloroethane	12.536	117	61016	50.990	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	161590	50.447	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	25339	51.684	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	102197	52.726	ug/l		99
94) Hexachlorobutadiene	13.719	225	38998	50.683	ug/l		98
95) Naphthalene	13.774	128	371576	53.033	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	100730	51.575	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

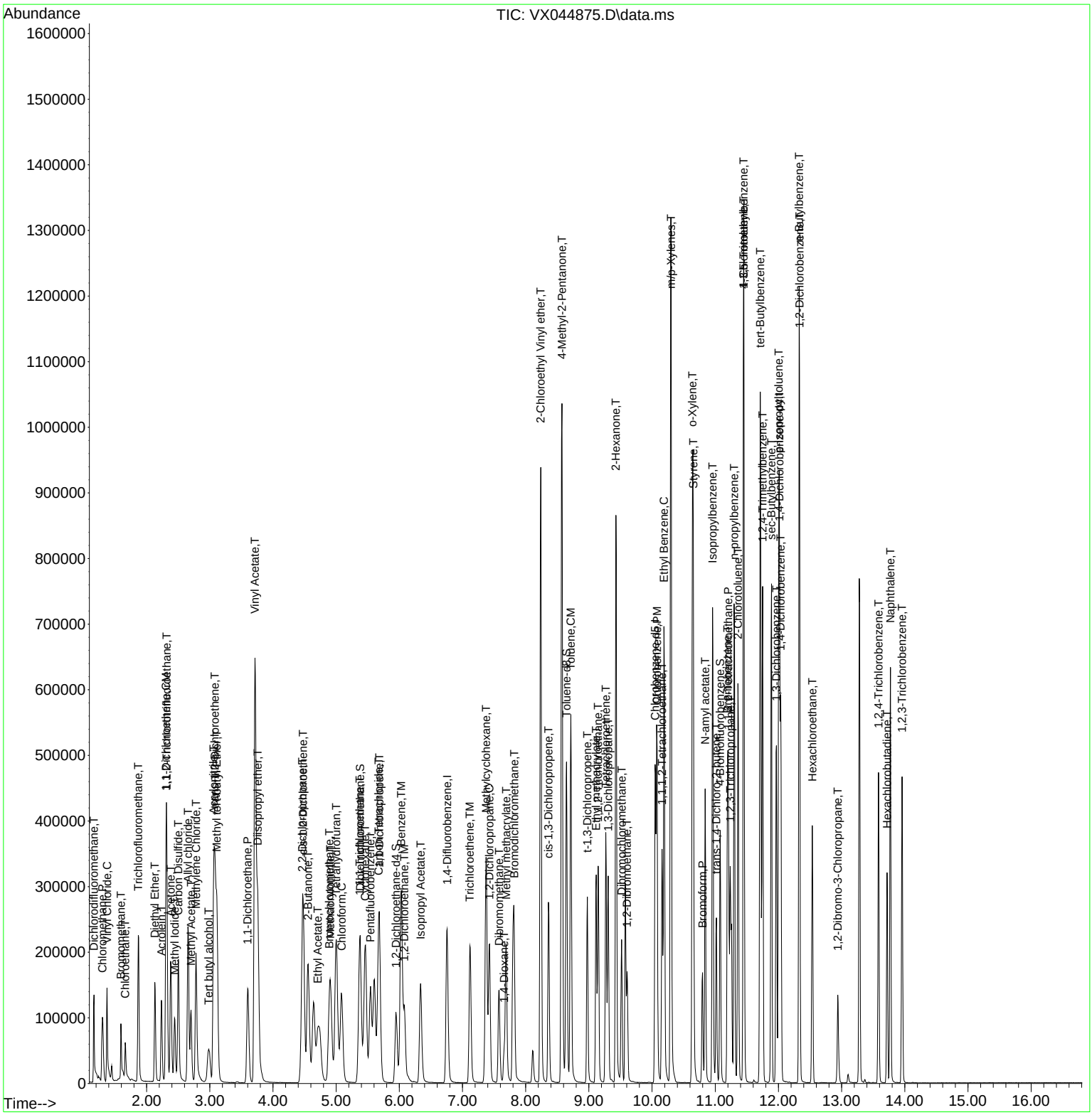
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

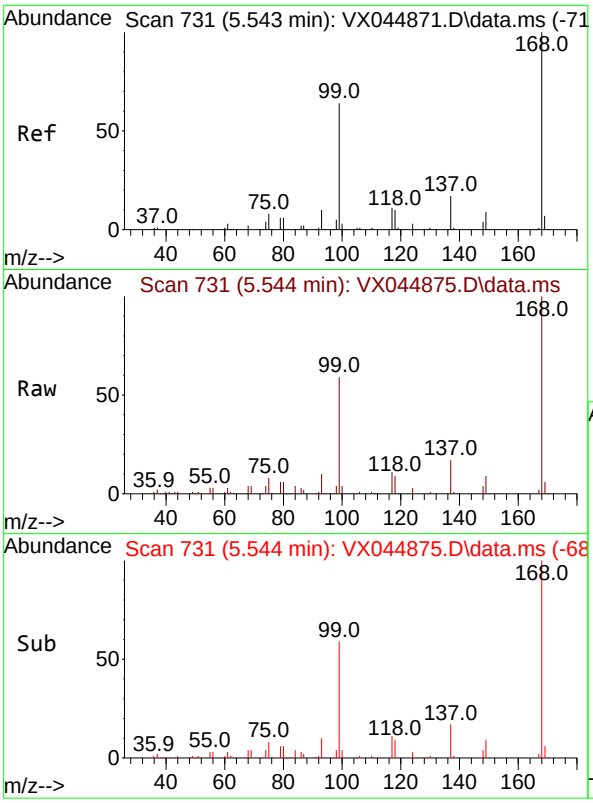
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021025\
Data File : VX044875.D
Acq On : 10 Feb 2025 13:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Quant Time: Feb 11 06:02:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



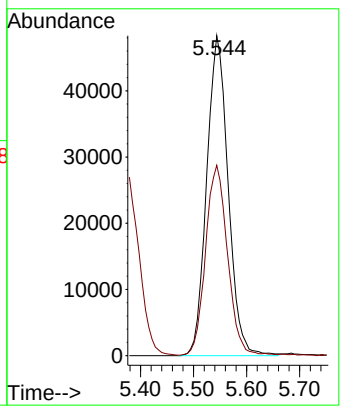


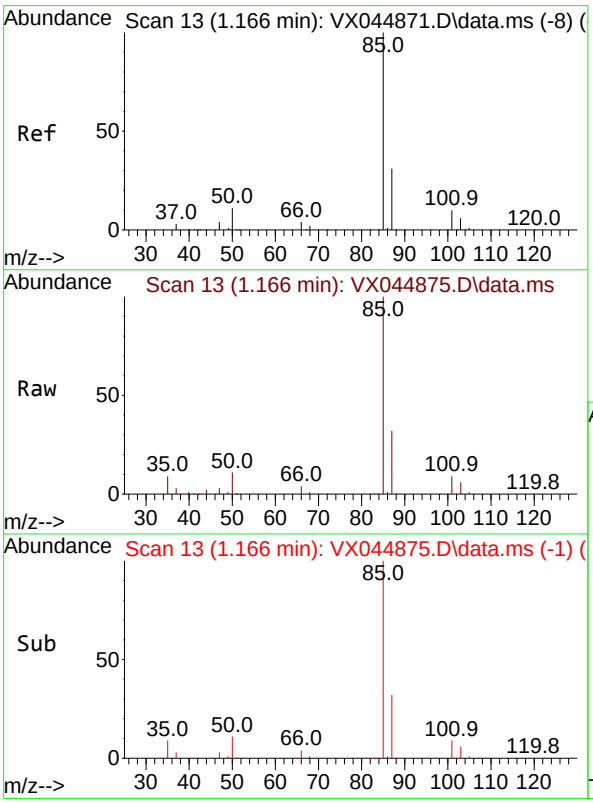
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:168 Resp: 135936

Ion	Ratio	Lower	Upper
168	100		
99	59.3	51.2	76.8

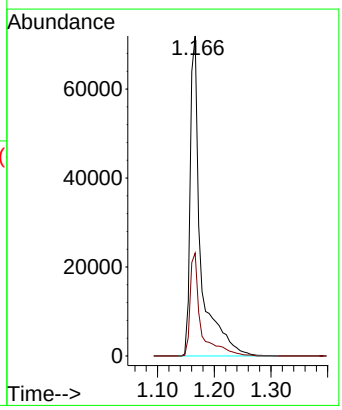


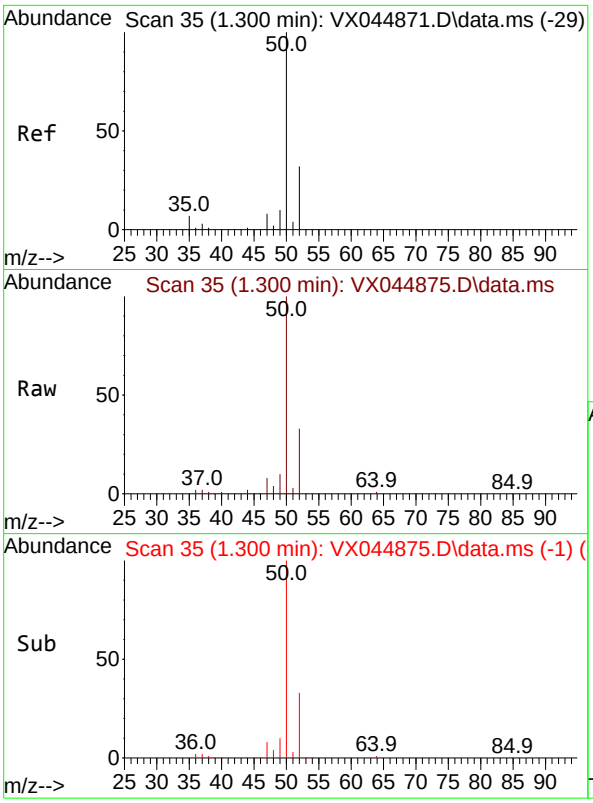


#2
Dichlorodifluoromethane
Concen: 49.173 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 85 Resp: 93752

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.8	47.3



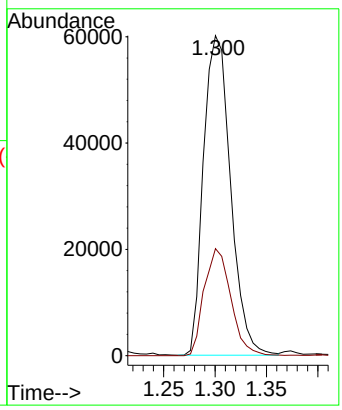


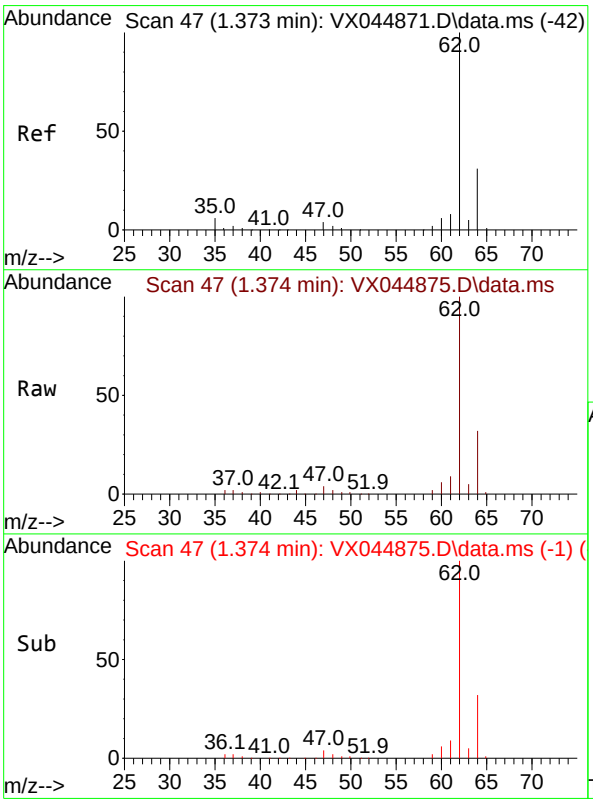
#3
Chloromethane
Concen: 47.590 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 50 Resp: 110431

Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.9	38.9

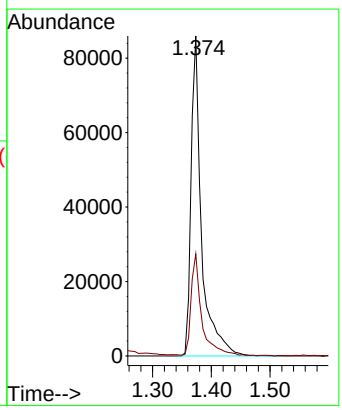


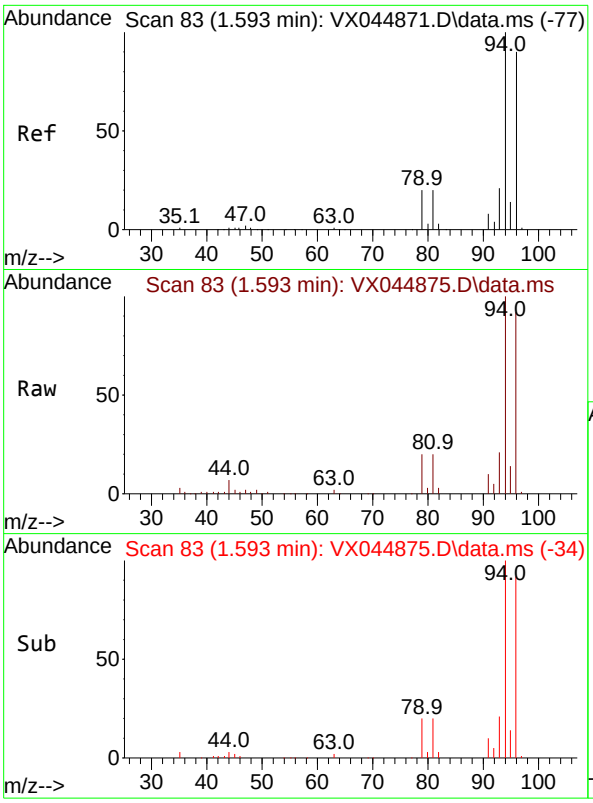


#4
Vinyl Chloride
Concen: 47.033 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 105730

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0



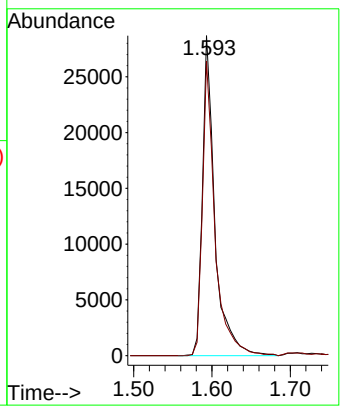


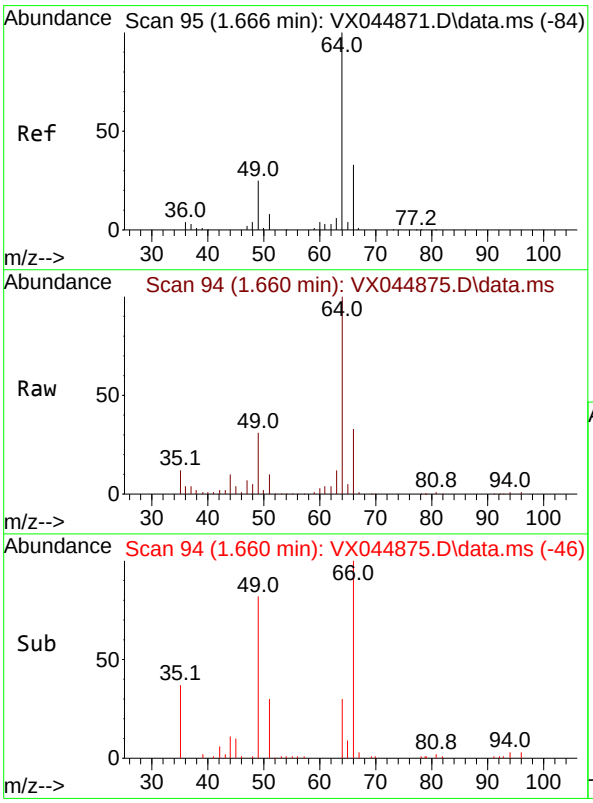
#5
Bromomethane
Concen: 46.719 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 94 Resp: 31428

Ion	Ratio	Lower	Upper
94	100		
96	92.0	71.6	107.4

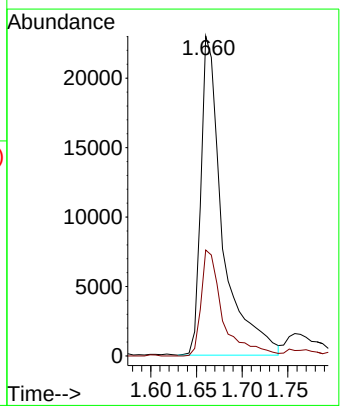


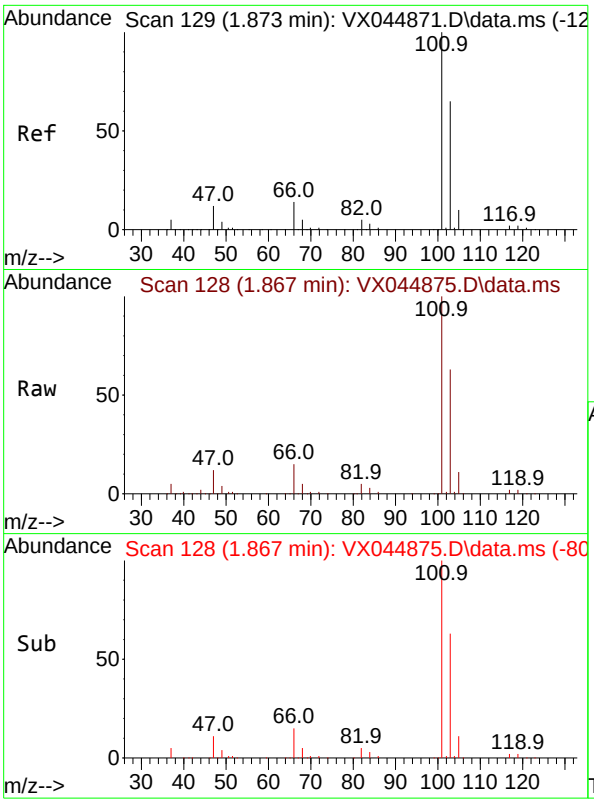


#6
Chloroethane
Concen: 42.198 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 64 Resp: 37913

Ion	Ratio	Lower	Upper
64	100		
66	33.2	25.9	38.9



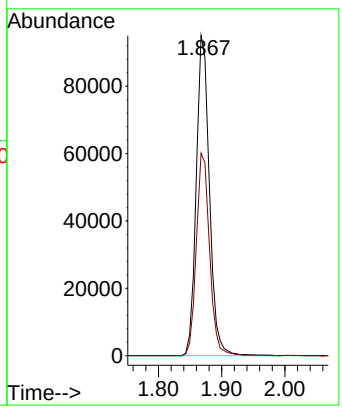


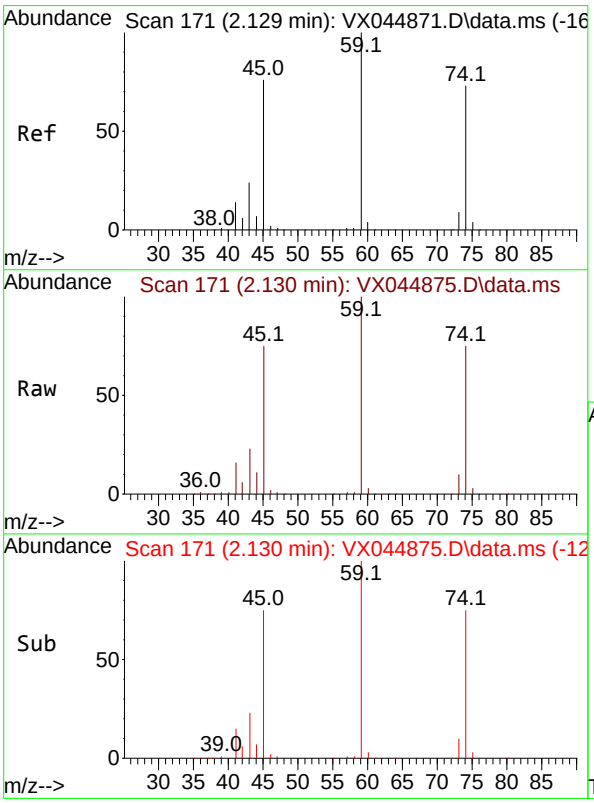
#7
Trichlorofluoromethane
Concen: 48.558 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:101 Resp: 138044

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.4	78.6

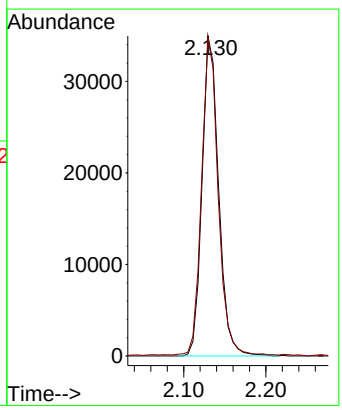


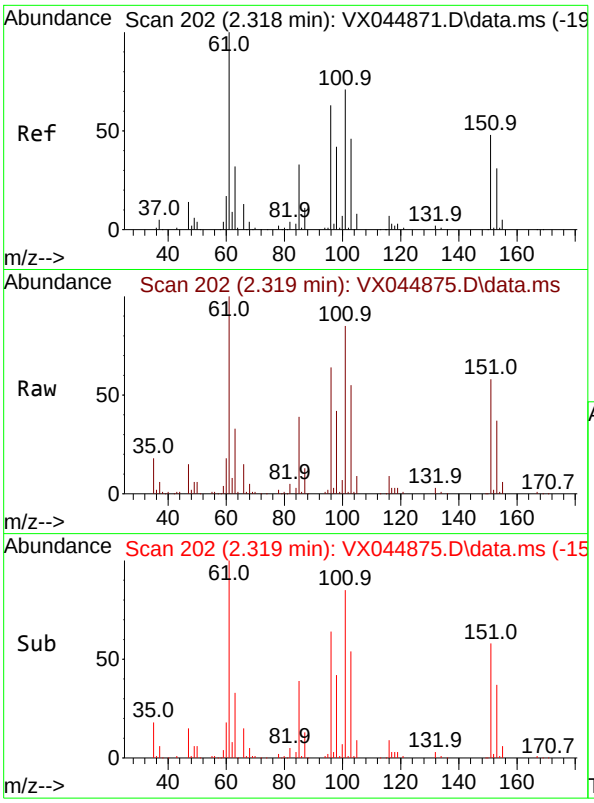


#8
Diethyl Ether
Concen: 47.544 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 74 Resp: 49018

Ion	Ratio	Lower	Upper
74	100		
45	98.9	51.1	153.4



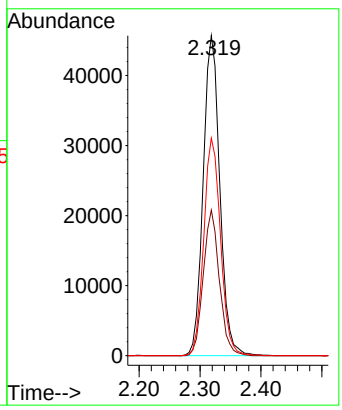


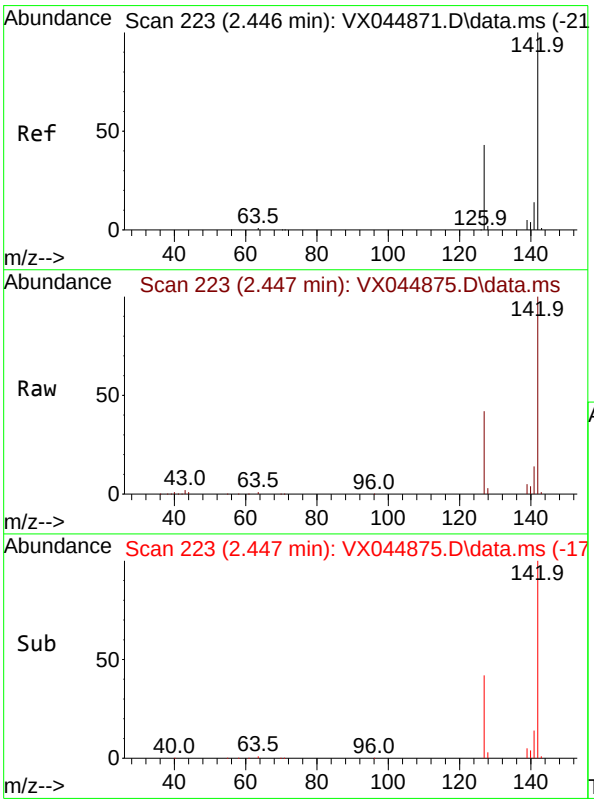
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.588 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:101 Resp: 86892

Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.7	53.5
151	68.4	56.0	84.0

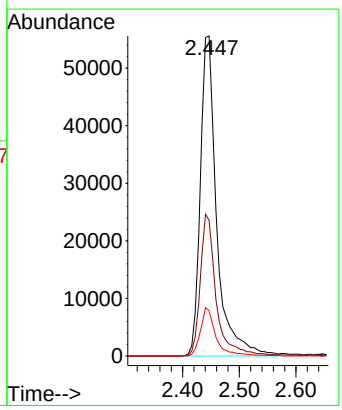


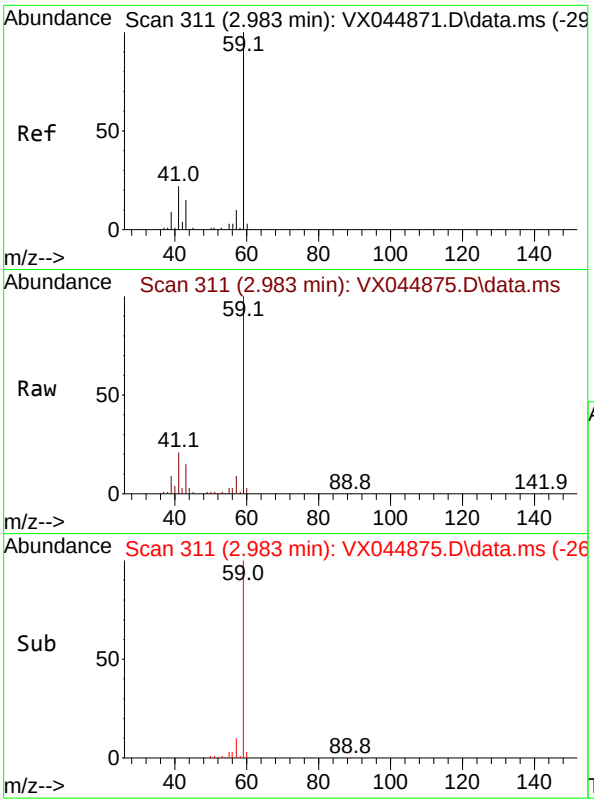


#10
Methyl Iodide
Concen: 50.082 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:142 Resp: 111488

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.3	51.5
141	14.3	11.4	17.2



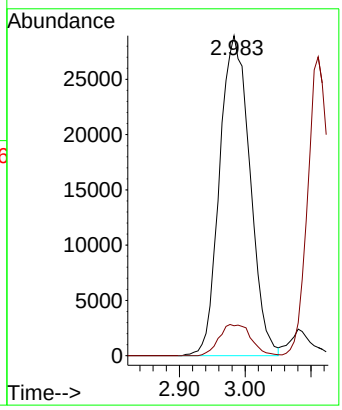


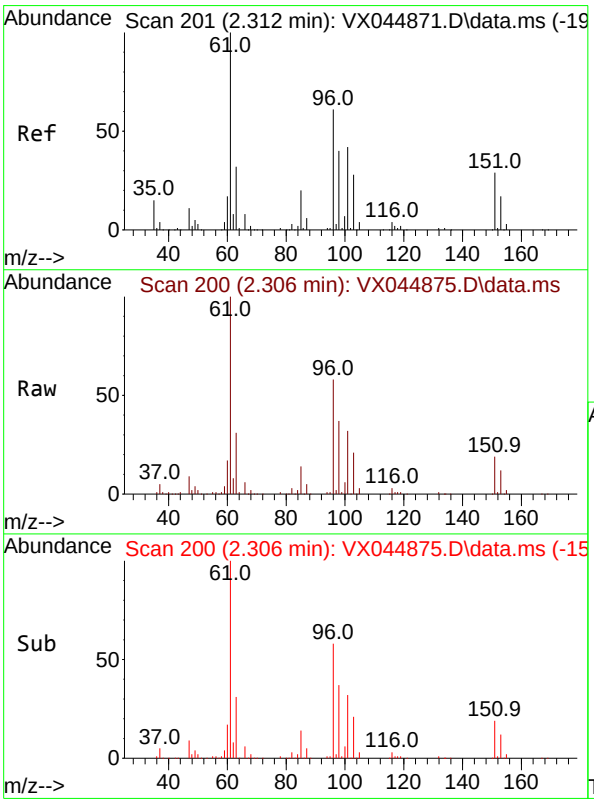
#11
Tert butyl alcohol
Concen: 251.791 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 59 Resp: 92949

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.1	12.1

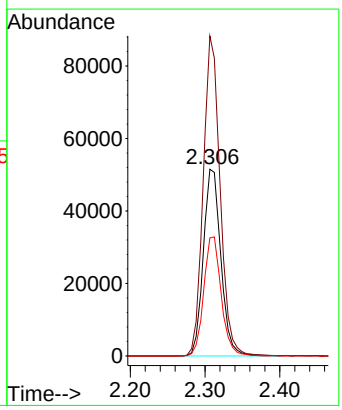


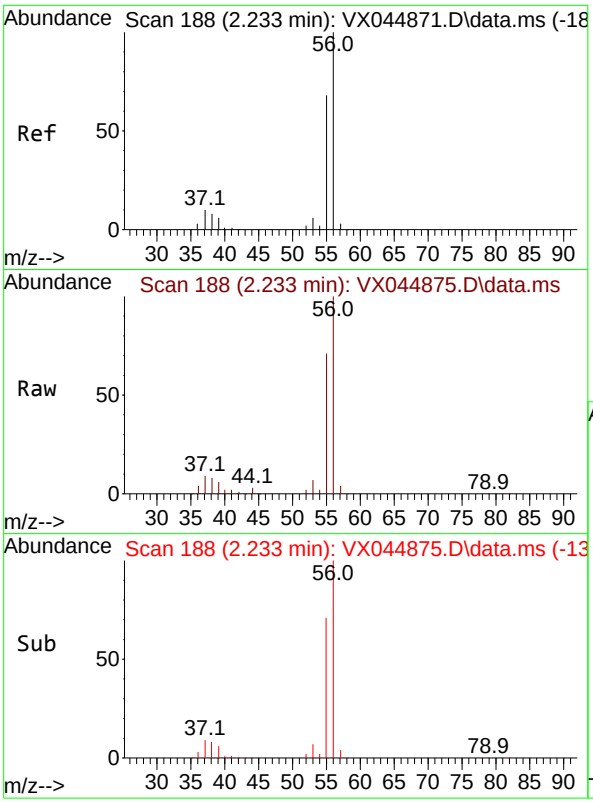


#12
1,1-Dichloroethene
Concen: 47.935 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 96 Resp: 83987

Ion	Ratio	Lower	Upper
96	100		
61	171.4	130.2	195.4
98	63.3	52.2	78.4



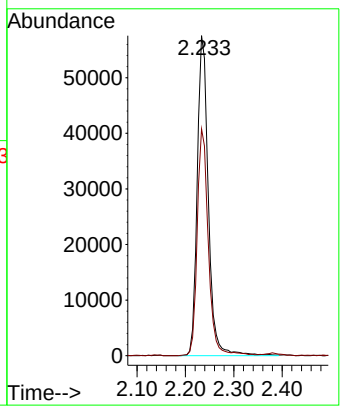


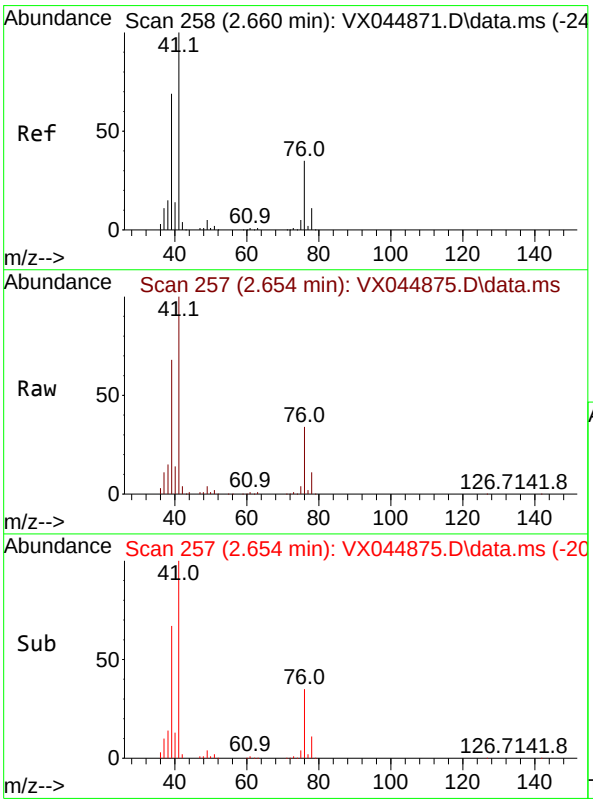
#13
Acrolein
Concen: 240.879 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 56 Resp: 91744

Ion	Ratio	Lower	Upper
56	100		
55	71.0	55.7	83.5

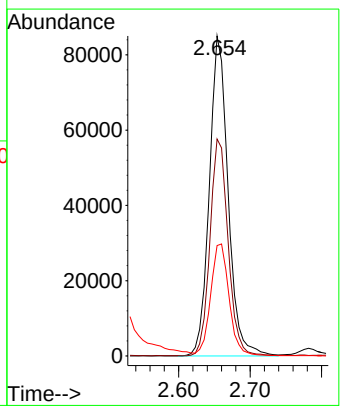


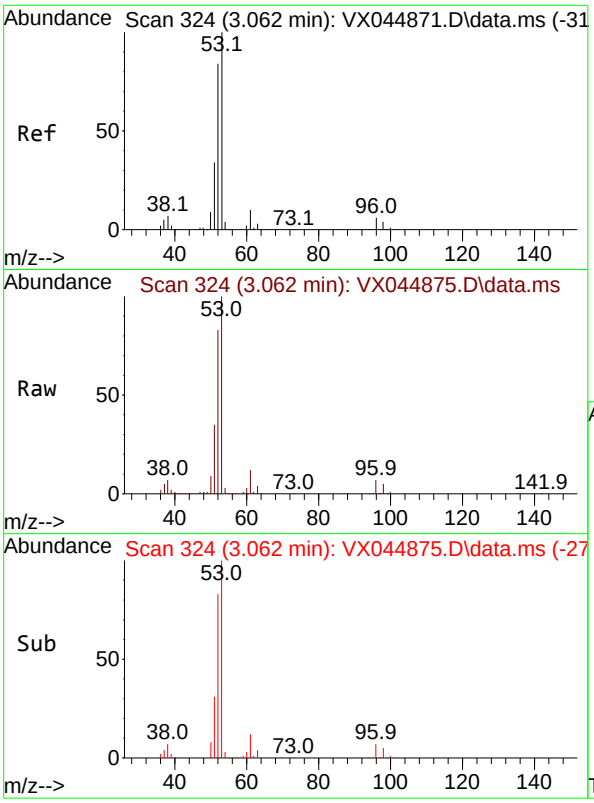


#14
Allyl chloride
Concen: 48.976 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 155084

Ion	Ratio	Lower	Upper
41	100		
39	65.4	51.4	77.2
76	34.2	27.0	40.4



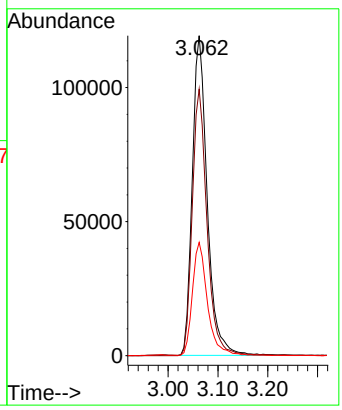


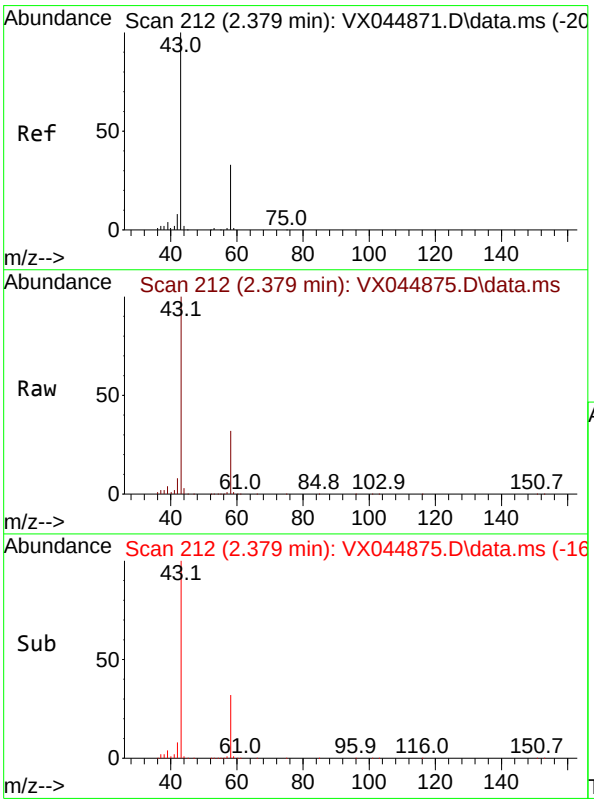
#15
Acrylonitrile
Concen: 251.537 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 53 Resp: 247921

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.0	97.6
51	35.7	28.0	42.0

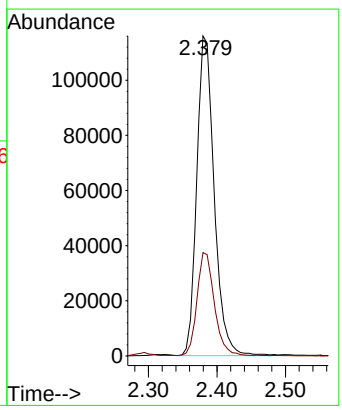


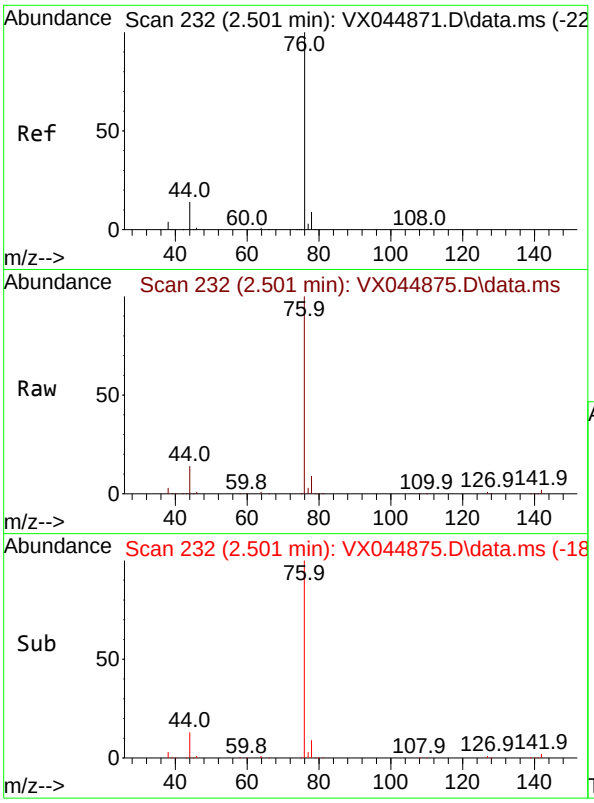


#16
Acetone
Concen: 257.198 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 205743

Ion	Ratio	Lower	Upper
43	100		
58	32.2	26.5	39.7



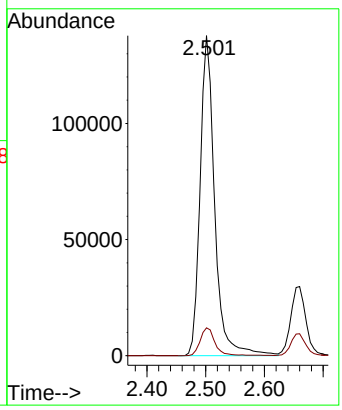


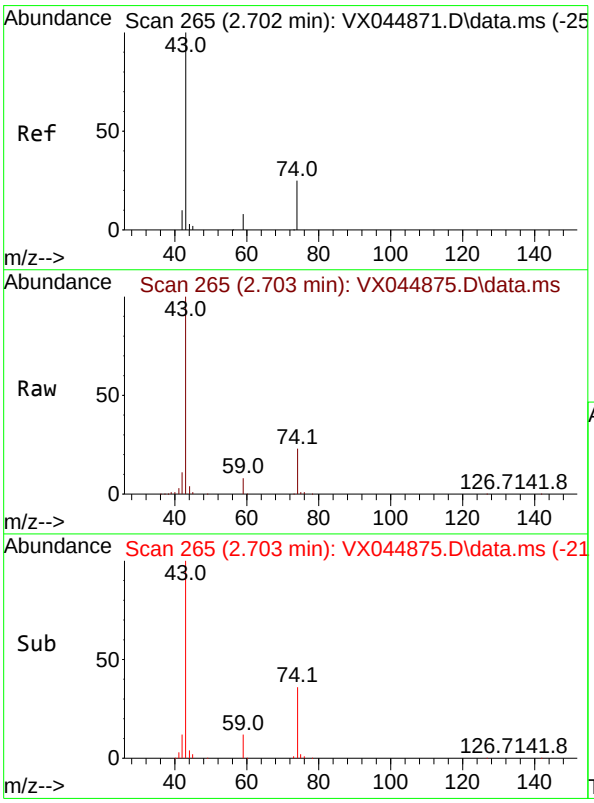
#17
Carbon Disulfide
Concen: 49.472 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 76 Resp: 237694

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

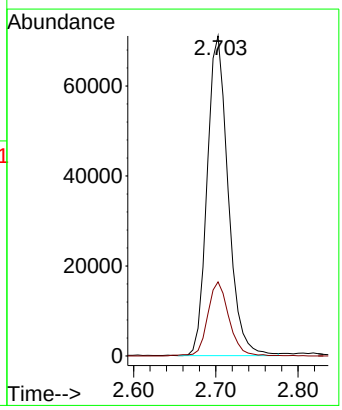


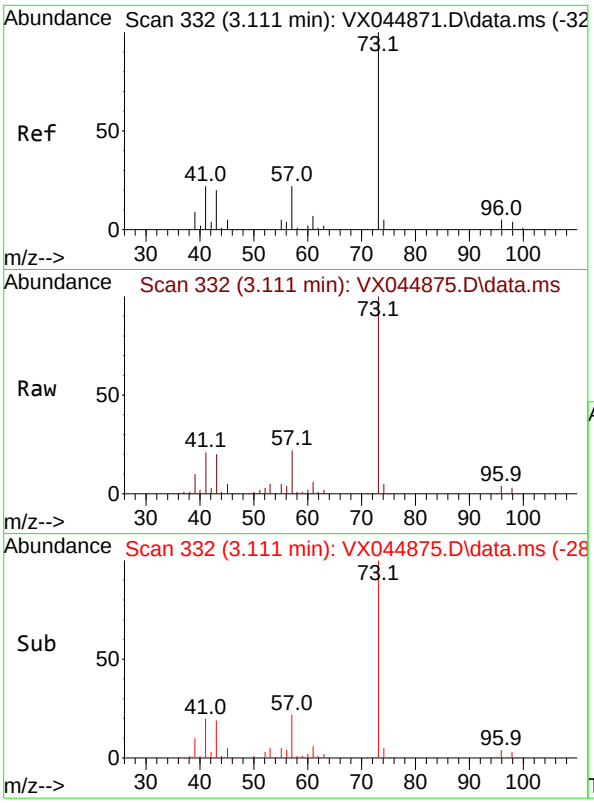


#18
Methyl Acetate
Concen: 49.920 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 126015

Ion	Ratio	Lower	Upper
43	100		
74	23.7	18.9	28.3



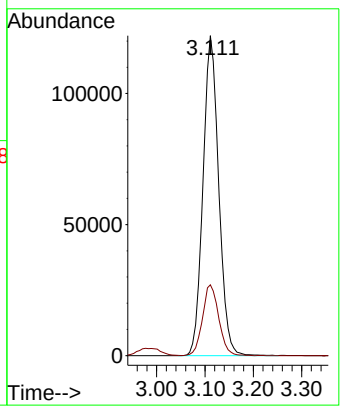


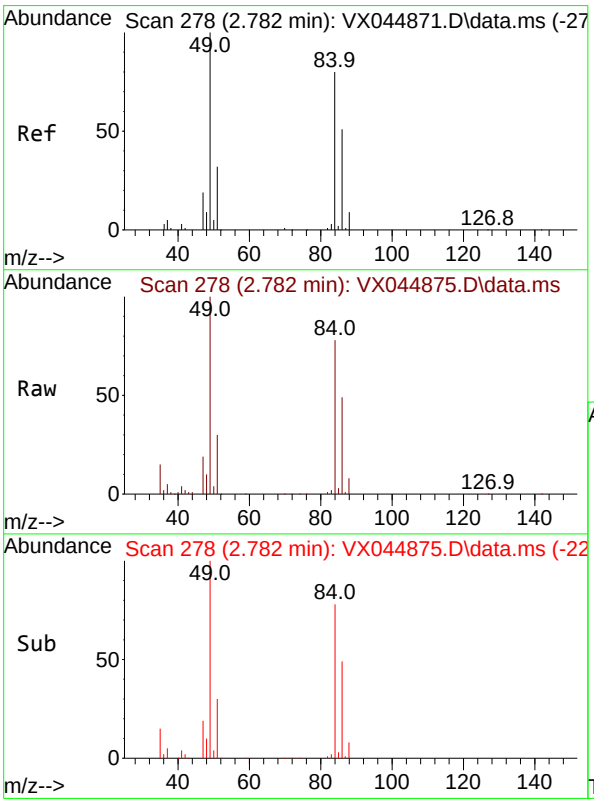
#19
Methyl tert-butyl Ether
Concen: 49.453 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 73 Resp: 275685

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.9	26.9

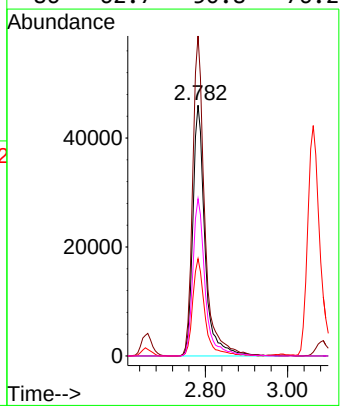


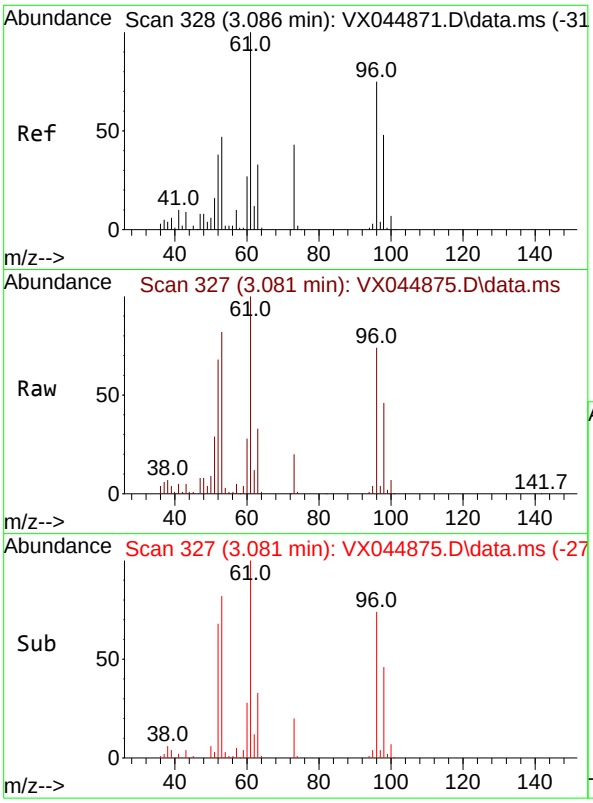


#20
Methylene Chloride
Concen: 47.978 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 84 Resp: 94006

Ion	Ratio	Lower	Upper
84	100		
49	127.6	100.1	150.1
51	38.8	31.7	47.5
86	62.7	50.8	76.2



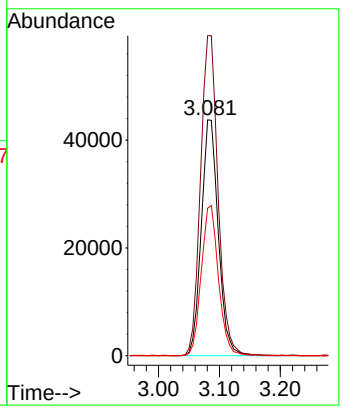


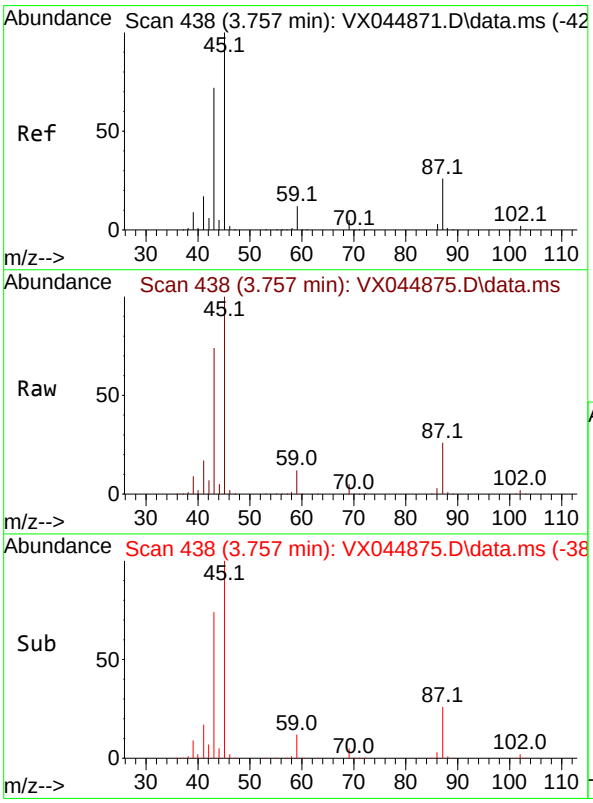
#21
trans-1,2-Dichloroethene
Concen: 49.129 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 96 Resp: 84720

Ion	Ratio	Lower	Upper
96	100		
61	135.7	106.0	159.0
98	62.5	50.6	76.0

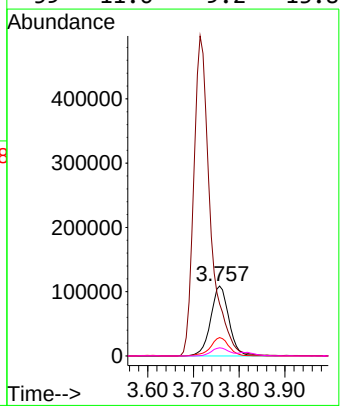


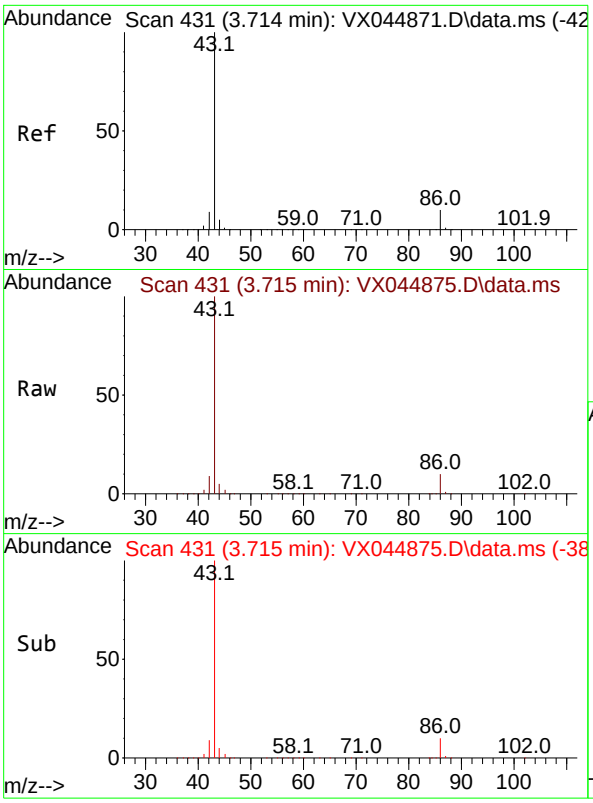


#22
Diisopropyl ether
Concen: 50.138 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 45 Resp: 300357

Ion	Ratio	Lower	Upper
45	100		
43	74.3	58.0	87.0
87	26.4	20.7	31.1
59	11.6	9.2	13.8



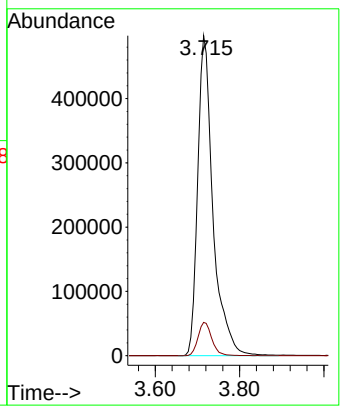


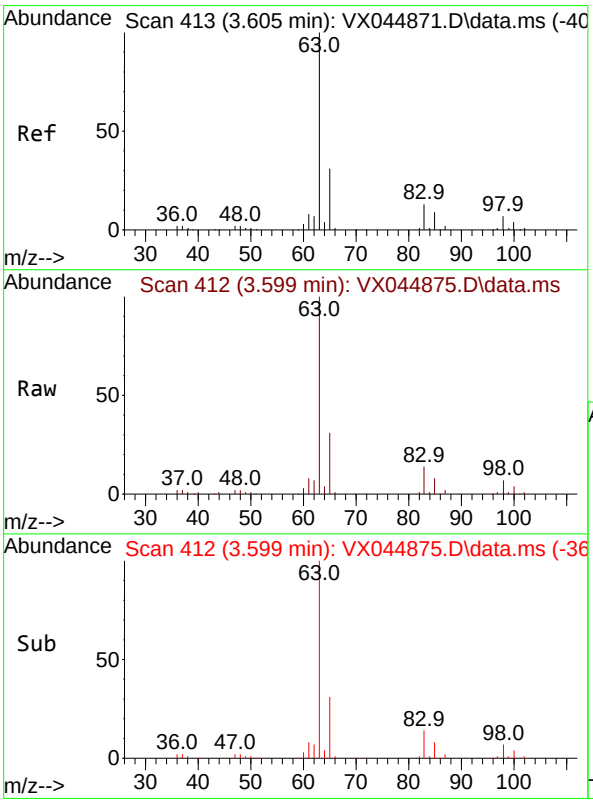
#23
Vinyl Acetate
Concen: 257.465 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 1257431

Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5

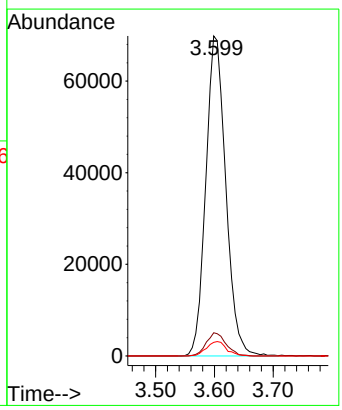


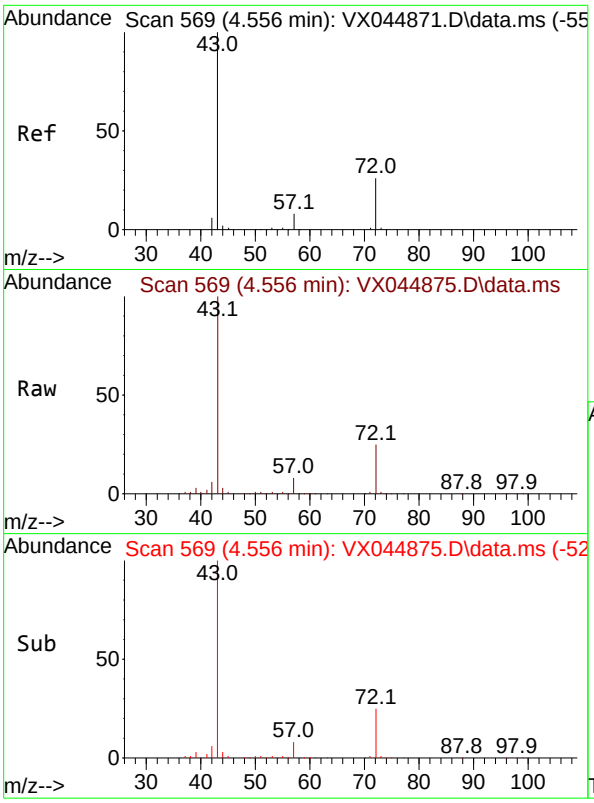


#24
1,1-Dichloroethane
Concen: 49.329 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 165351

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.3	9.9
100	4.2	2.1	6.5



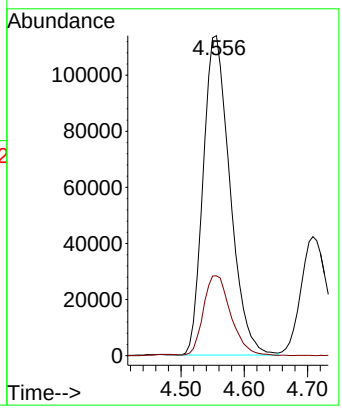


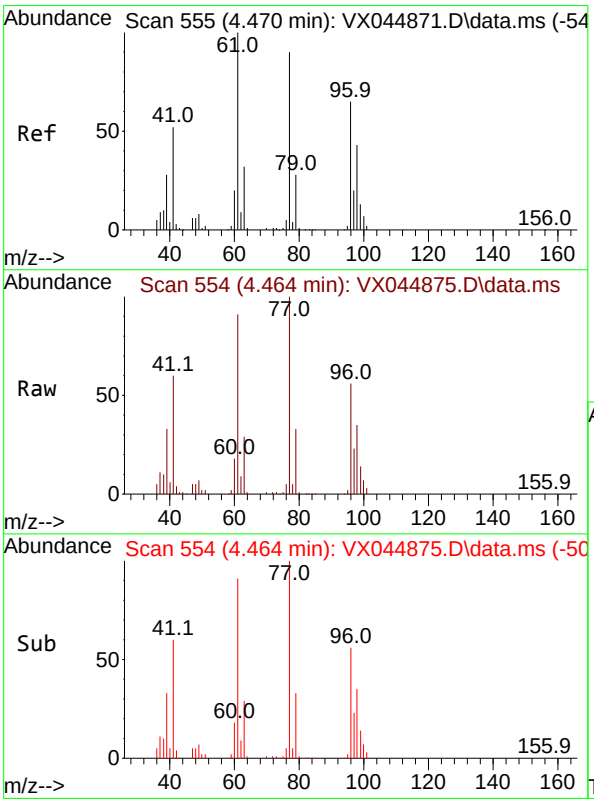
#25
2-Butanone
Concen: 258.175 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 335358

Ion	Ratio	Lower	Upper
43	100		
72	24.9	21.2	31.8

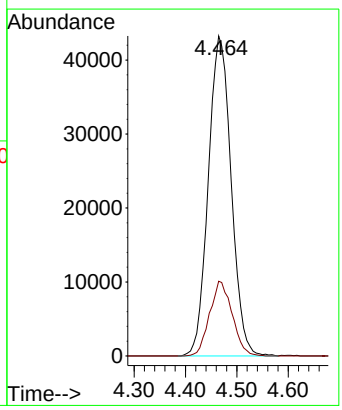


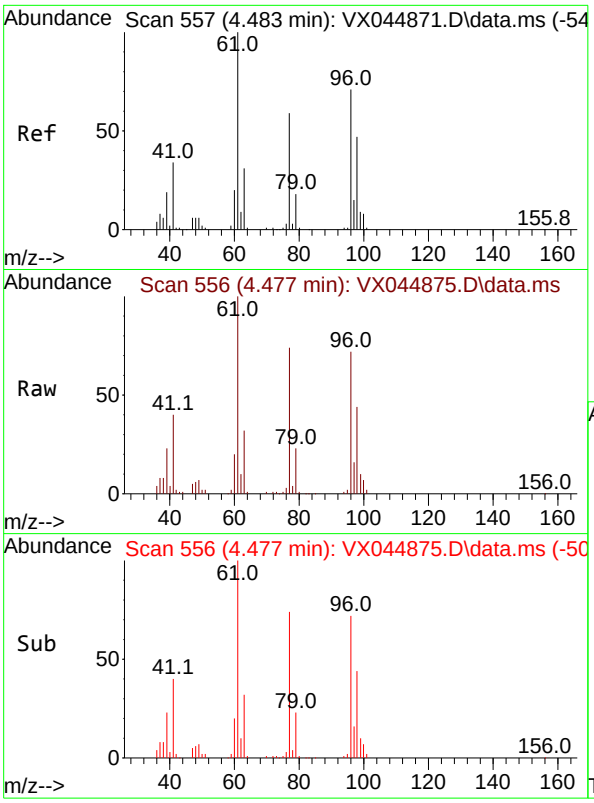


#26
2,2-Dichloropropane
Concen: 50.285 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 77 Resp: 133670

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.8	35.3



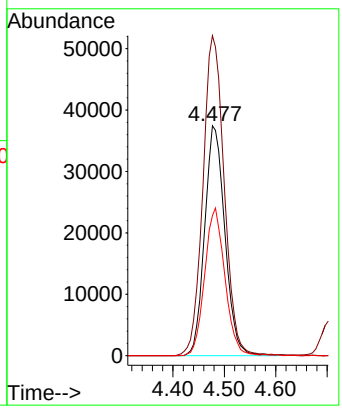


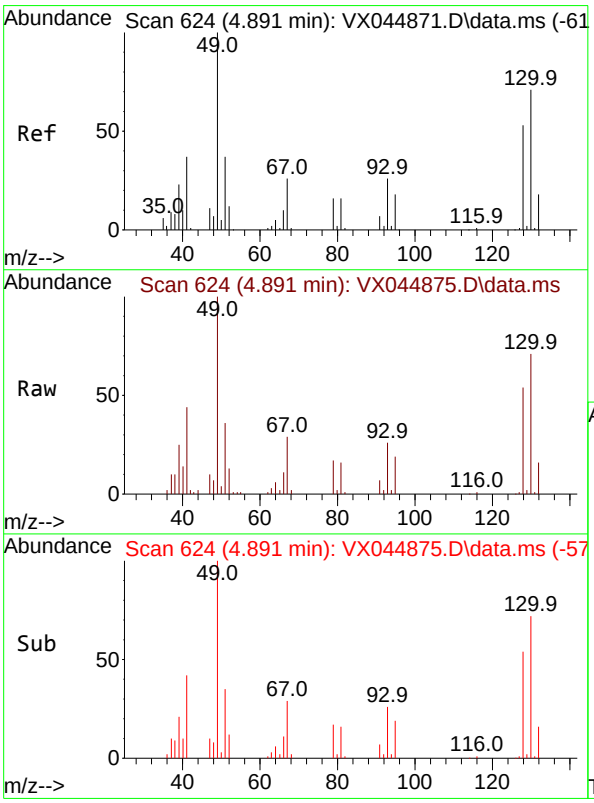
#27
cis-1,2-Dichloroethene
Concen: 49.493 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 96 Resp: 102518

Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	294.0
98	63.9	0.0	131.2

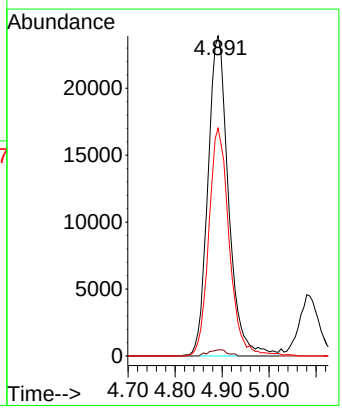


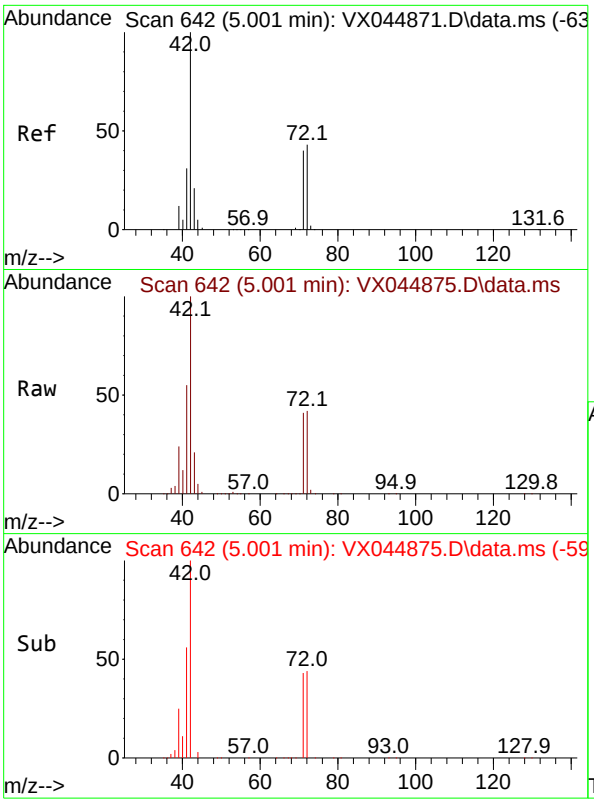


#28
Bromochloromethane
Concen: 45.250 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 49 Resp: 72893

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	70.3	56.7	85.1



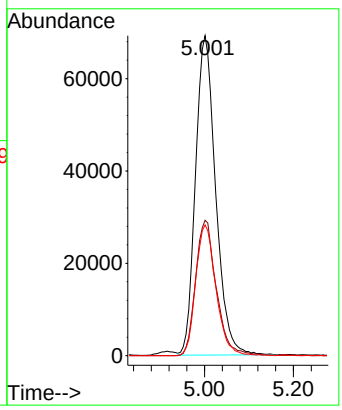


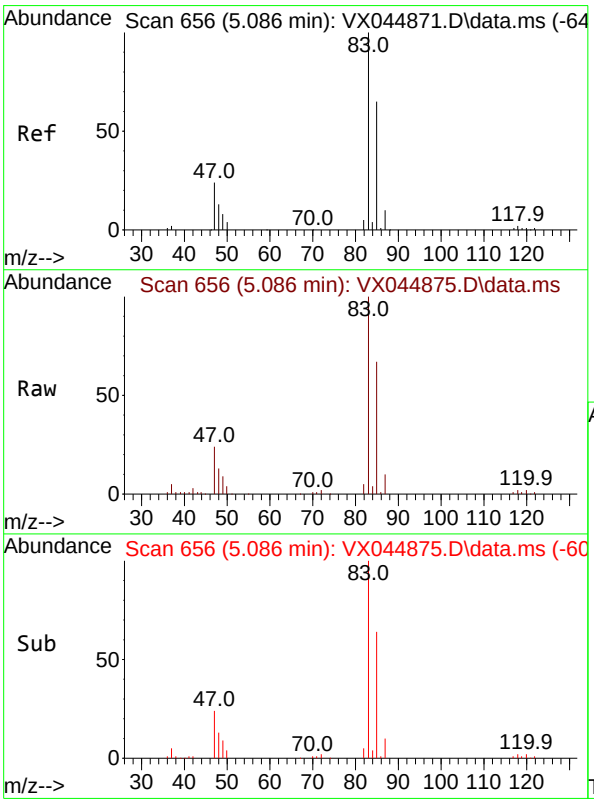
#29
Tetrahydrofuran
Concen: 253.318 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 42 Resp: 218496

Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.0	52.4
71	41.1	32.6	48.8

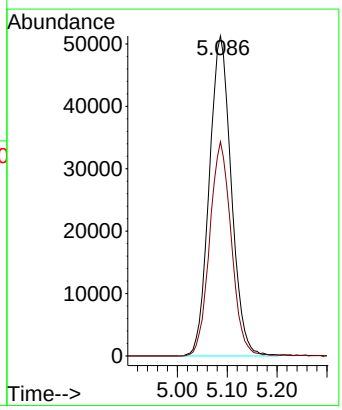


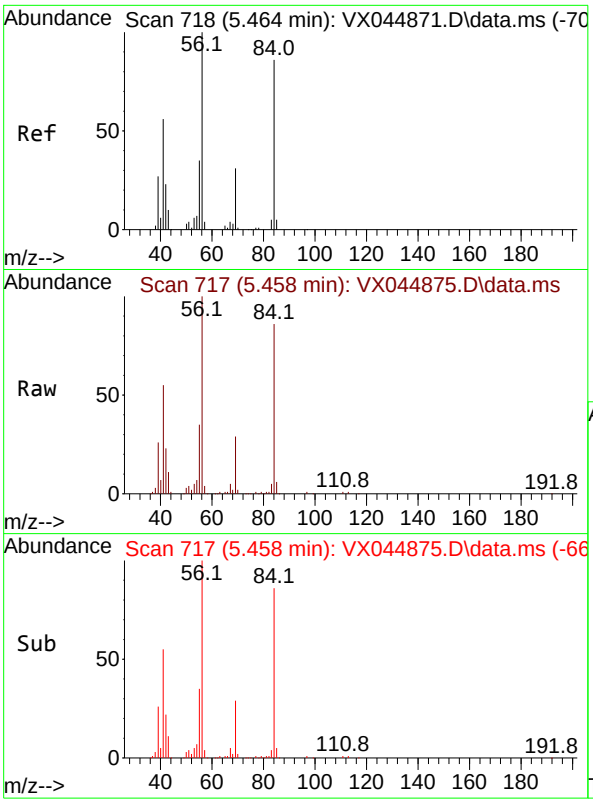


#30
Chloroform
Concen: 48.393 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 83 Resp: 157312

Ion	Ratio	Lower	Upper
83	100		
85	66.9	52.1	78.1



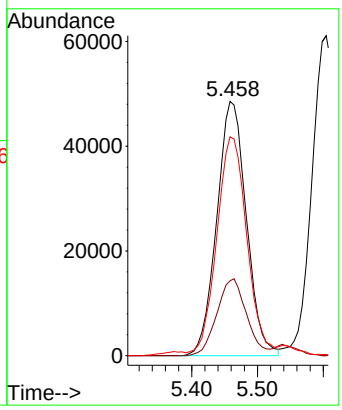


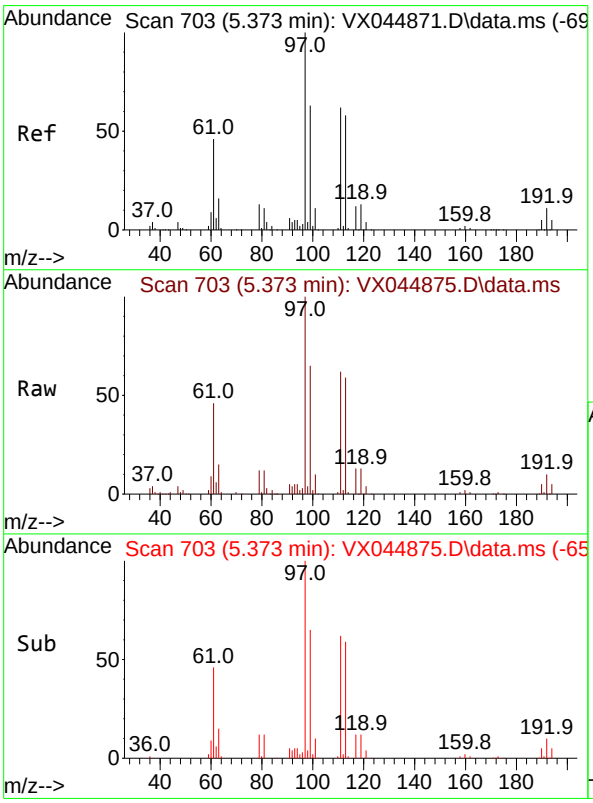
#31
Cyclohexane
Concen: 49.211 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 56 Resp: 152073

Ion	Ratio	Lower	Upper
56	100		
69	29.4	24.4	36.6
84	84.6	69.0	103.6

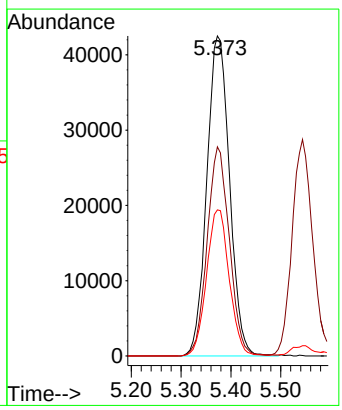


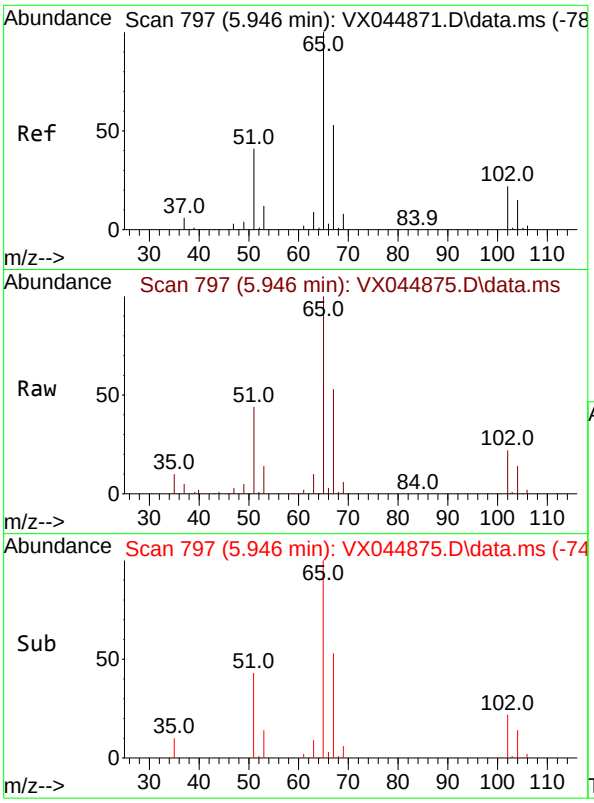


#32
1,1,1-Trichloroethane
Concen: 48.825 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 97 Resp: 134626

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	45.7	36.6	55.0



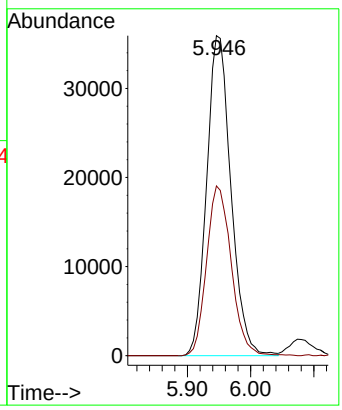


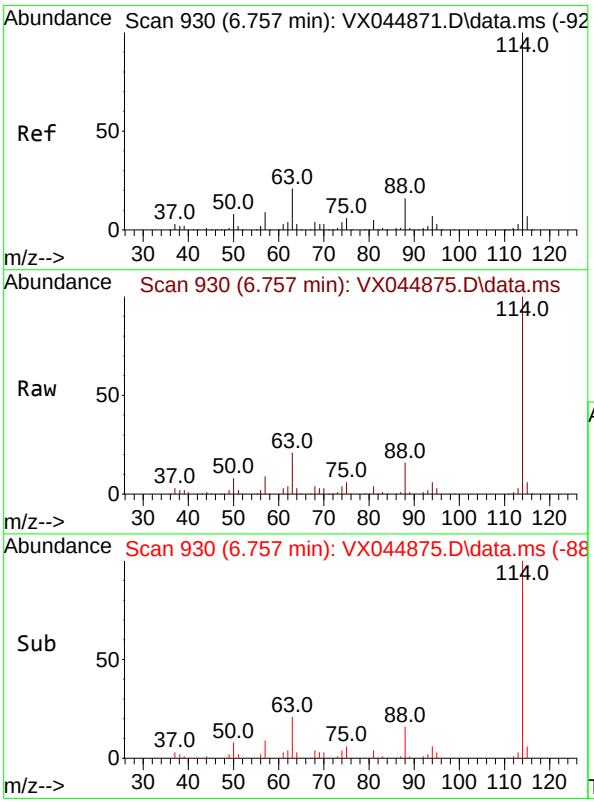
#33
1,2-Dichloroethane-d4
Concen: 48.061 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 65 Resp: 95635

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	108.2

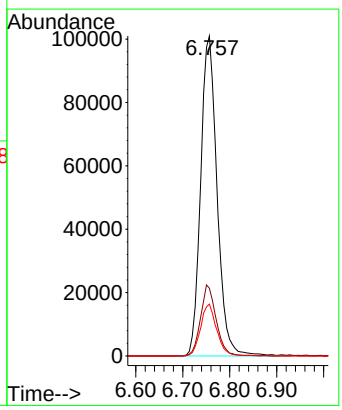


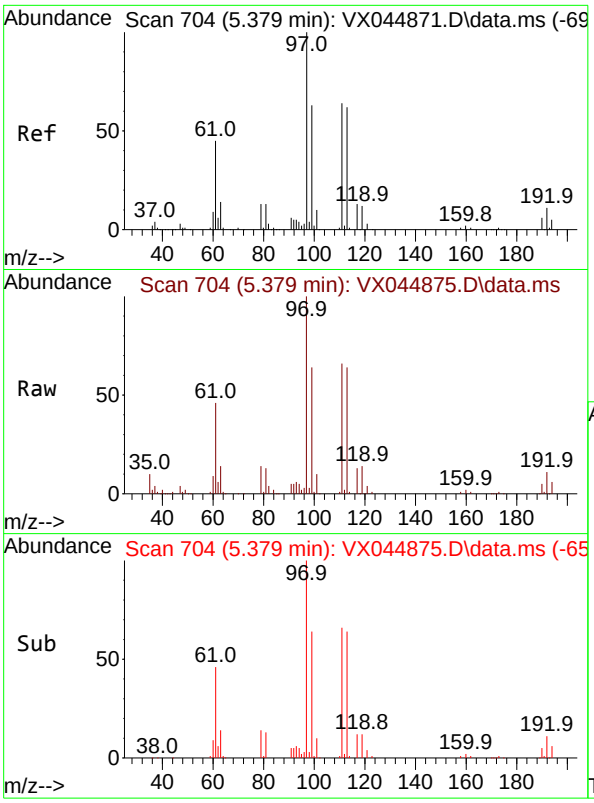


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:114 Resp: 245098

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.4
88	16.2	0.0	31.4



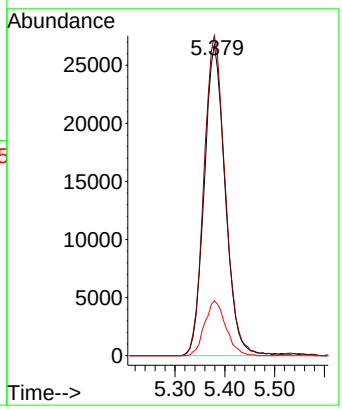


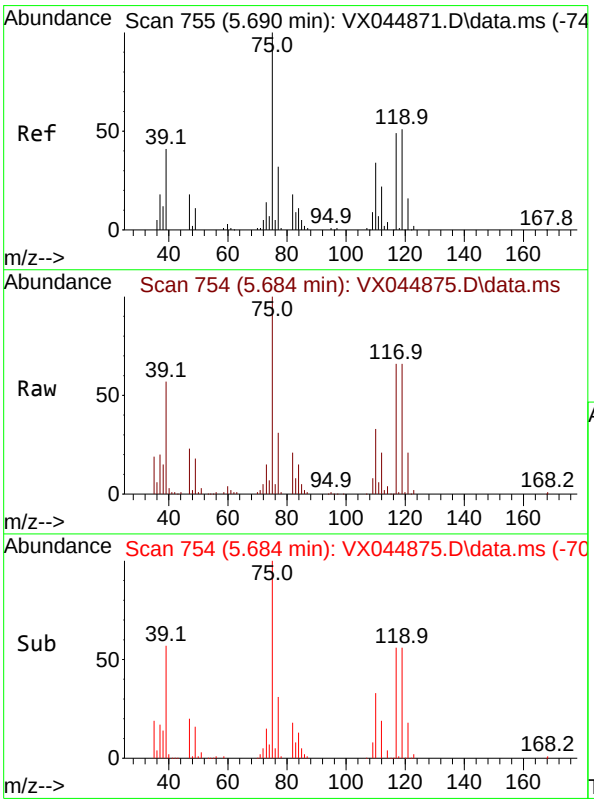
#35
Dibromofluoromethane
Concen: 49.173 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:113 Resp: 78360

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.5	125.3
192	17.9	14.4	21.6

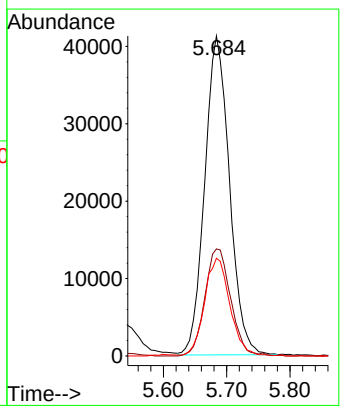


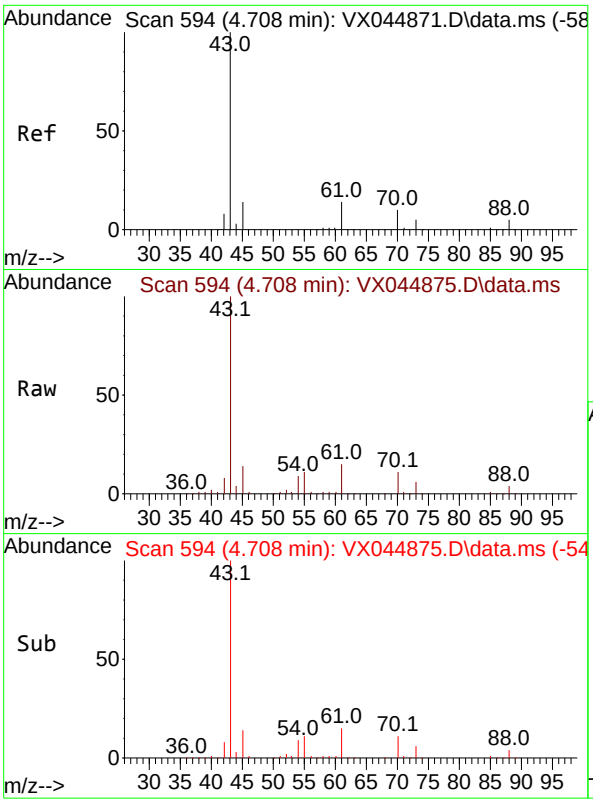


#36
1,1-Dichloropropene
Concen: 48.702 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 111968

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.2	51.6
77	31.6	24.6	37.0



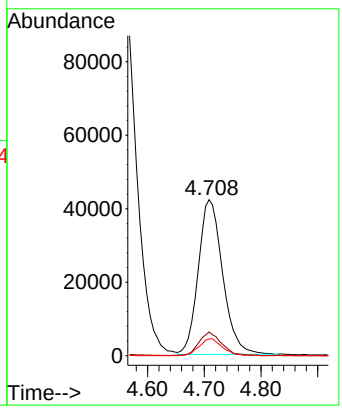


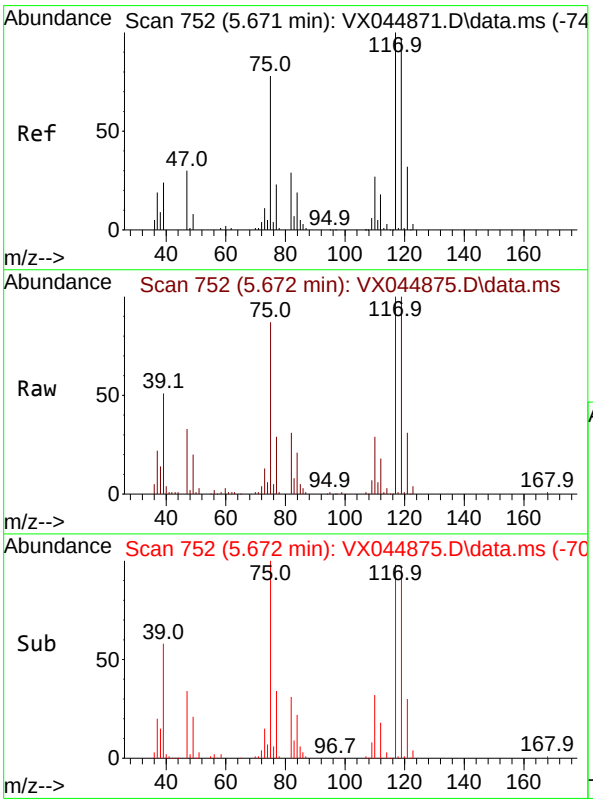
#37
Ethyl Acetate
Concen: 49.300 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 126071

Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.0	16.4
70	10.4	8.2	12.2

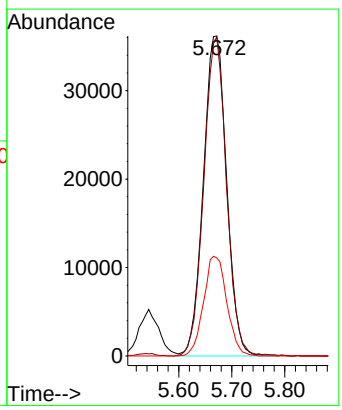


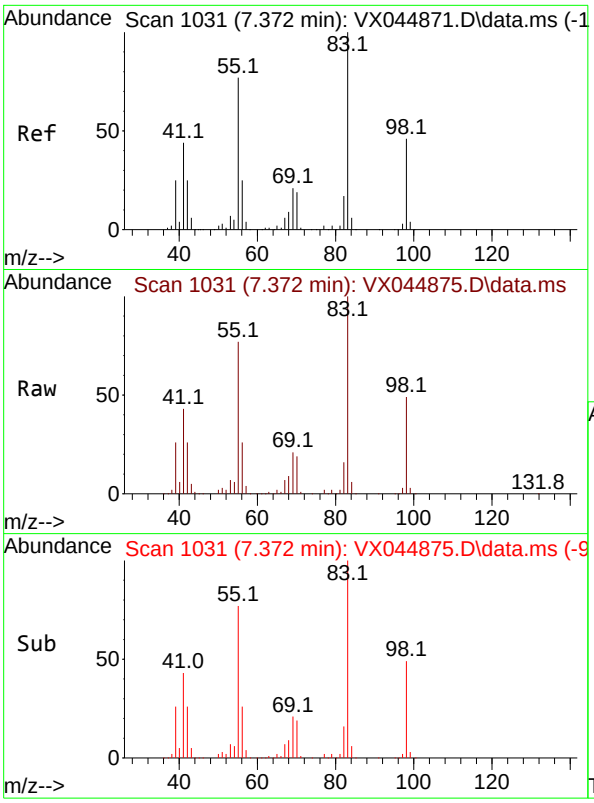


#38
Carbon Tetrachloride
Concen: 49.083 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 110581

Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.5	116.3
121	30.6	25.6	38.4



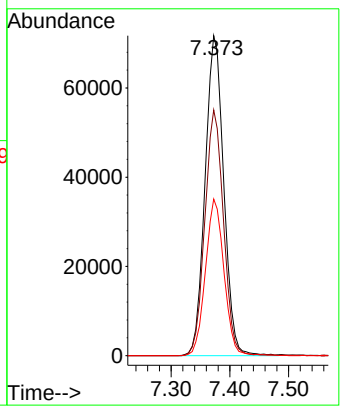


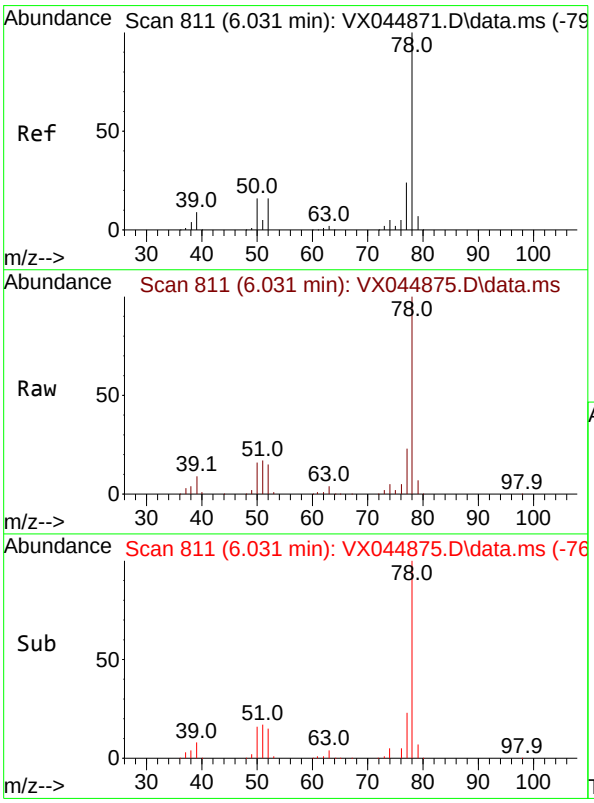
#39
Methylcyclohexane
Concen: 53.254 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 83 Resp: 158289

Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.3	91.9
98	49.0	37.0	55.6

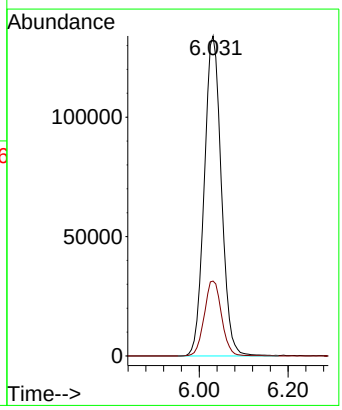


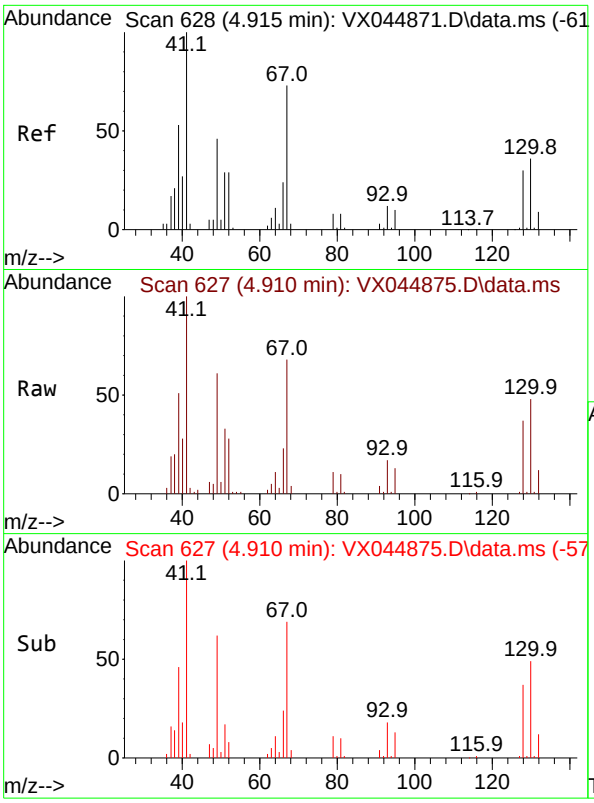


#40
Benzene
Concen: 49.919 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 78 Resp: 358365

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6



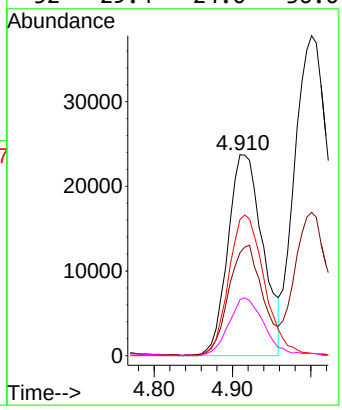


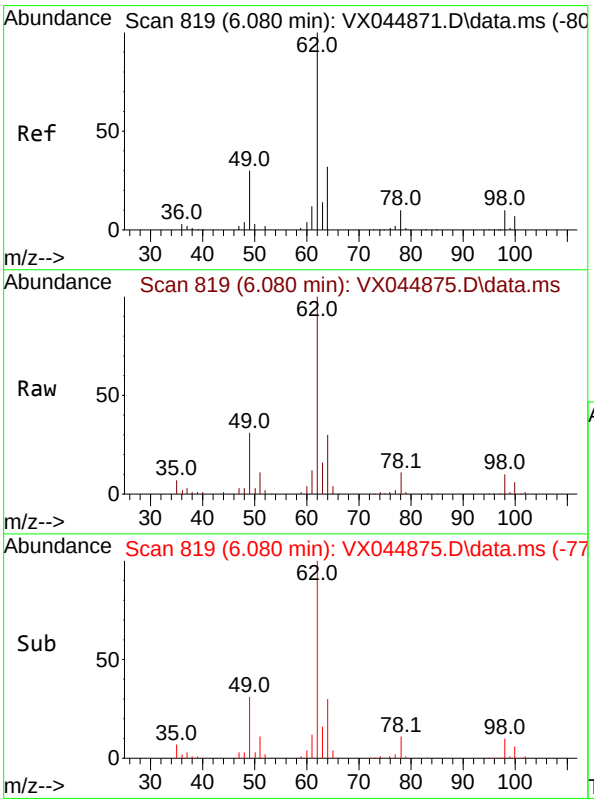
#41
Methacrylonitrile
Concen: 53.741 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 41 Resp: 73559

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.1	64.7
67	71.9	57.0	85.6
52	29.4	24.0	36.0

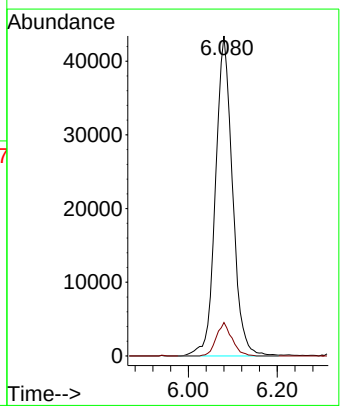


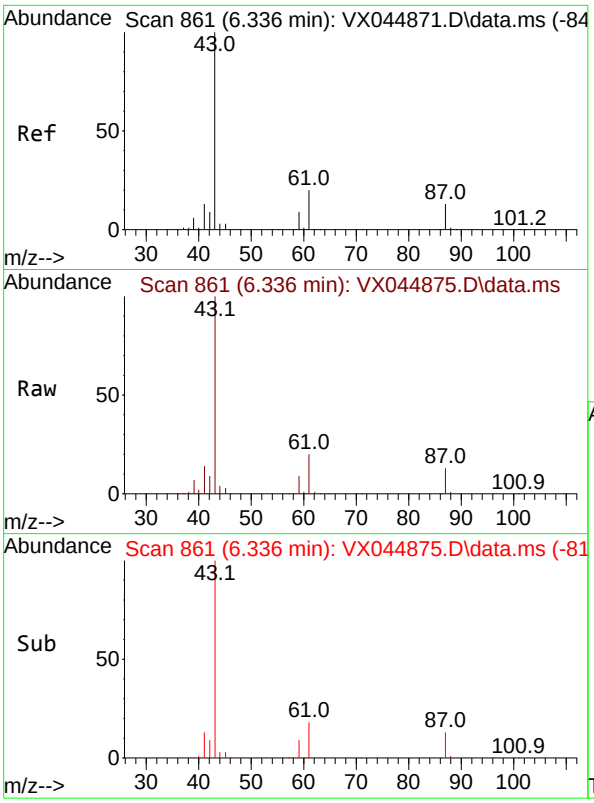


#42
1,2-Dichloroethane
Concen: 50.410 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 62 Resp: 115339

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4



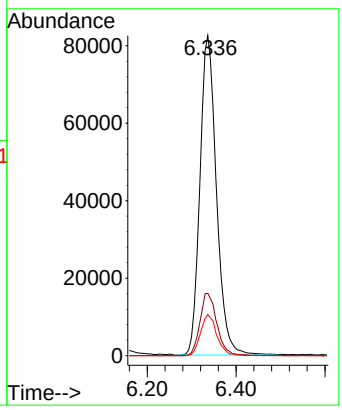


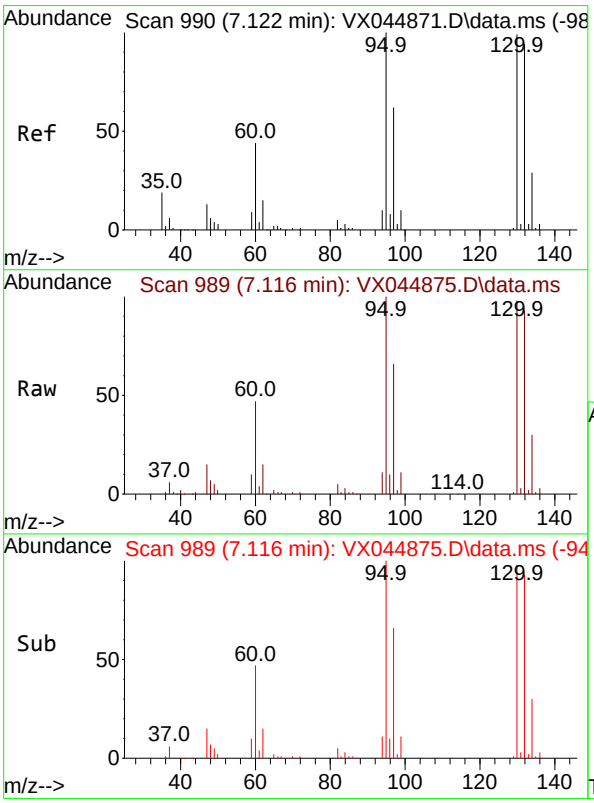
#43
Isopropyl Acetate
Concen: 51.798 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 213901

Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.8	23.8
87	12.6	10.0	15.0

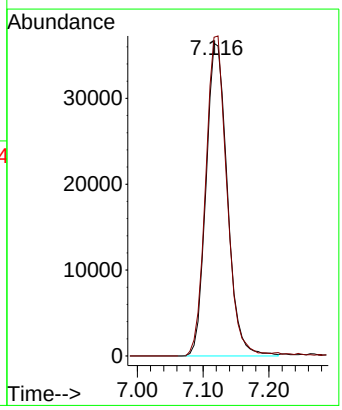


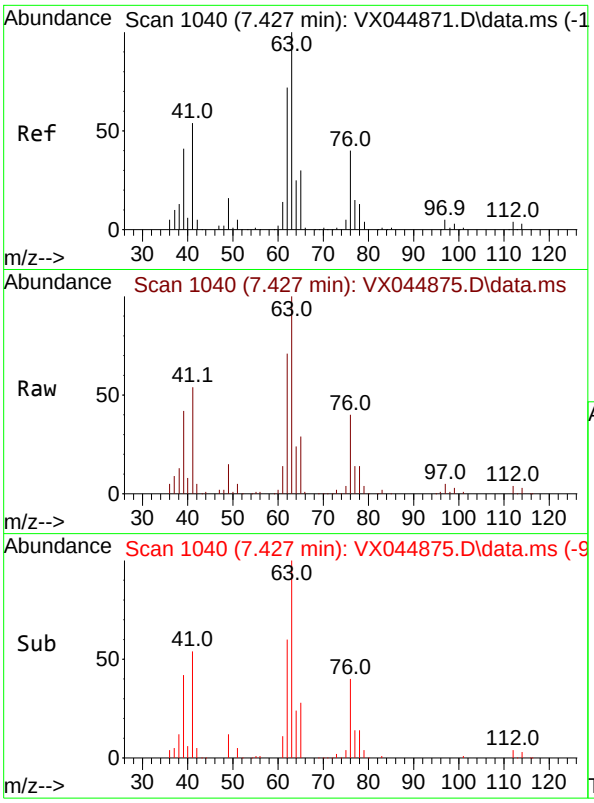


#44
Trichloroethene
Concen: 49.917 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:130 Resp: 81911

Ion	Ratio	Lower	Upper
130	100		
95	102.0	0.0	202.4



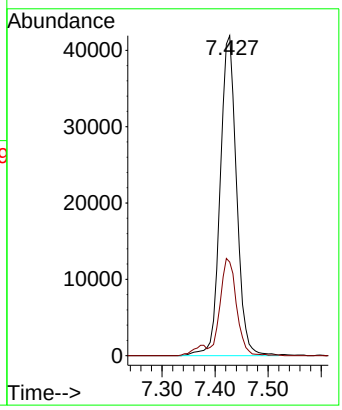


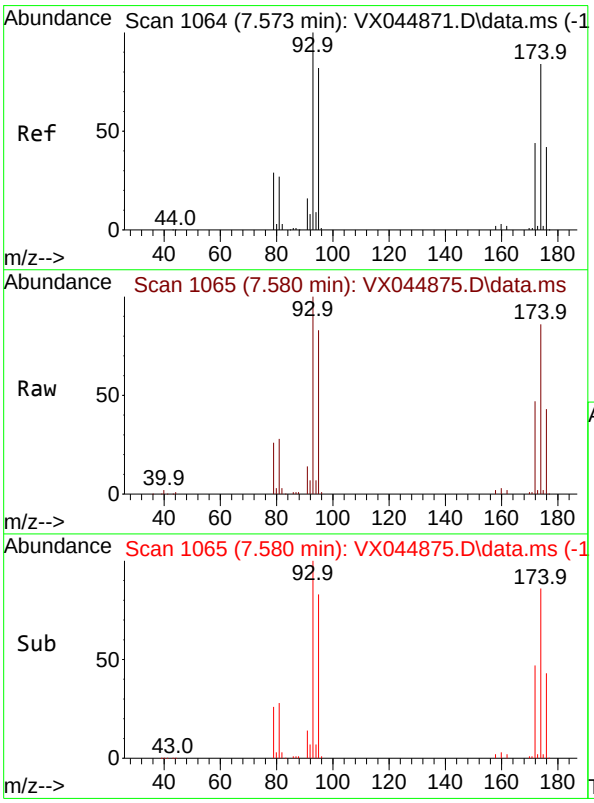
#45
1,2-Dichloropropane
Concen: 50.387 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 63 Resp: 89992

Ion	Ratio	Lower	Upper
63	100		
65	29.3	24.2	36.4

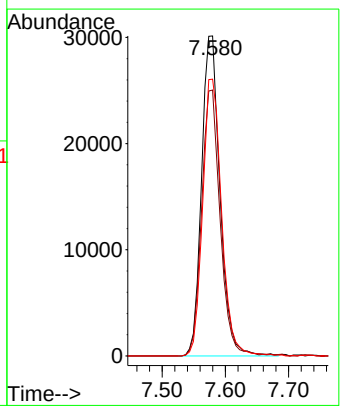


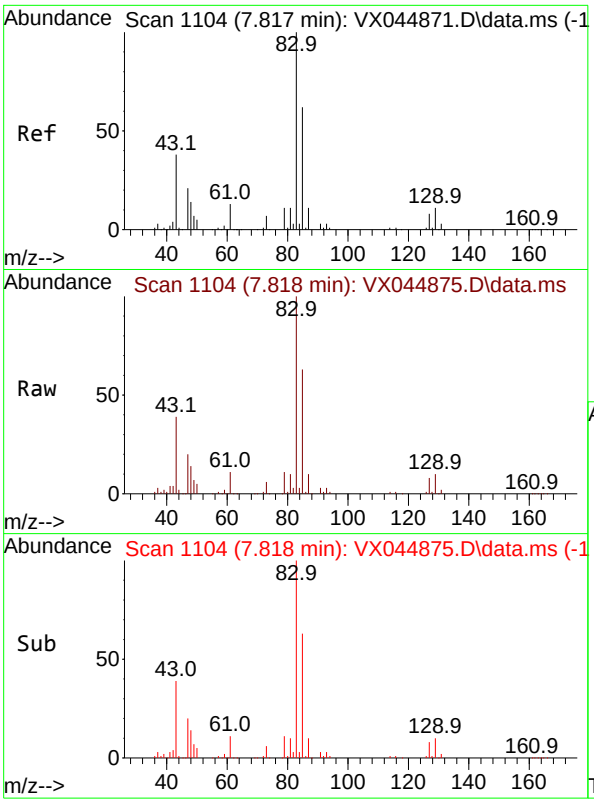


#46
Dibromomethane
Concen: 49.540 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 93 Resp: 61360

Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.2	99.4
174	88.6	69.9	104.9



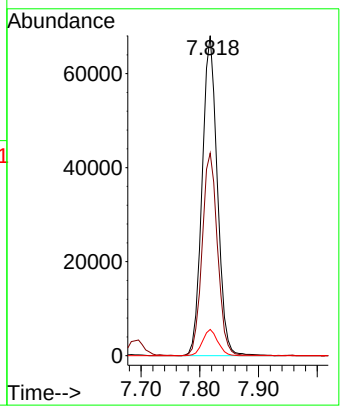


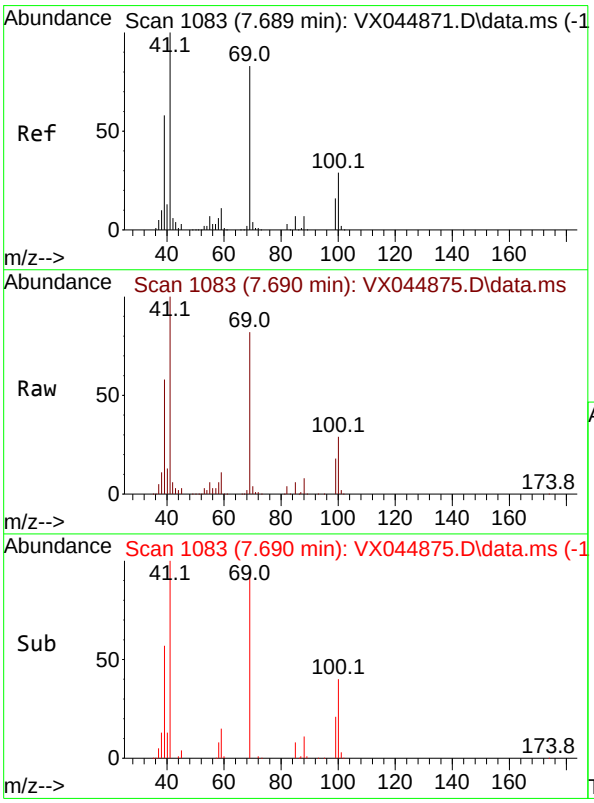
#47
Bromodichloromethane
Concen: 50.980 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 83 Resp: 122265

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.0	75.0
127	8.2	6.4	9.6

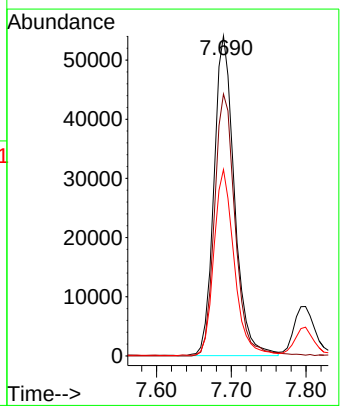


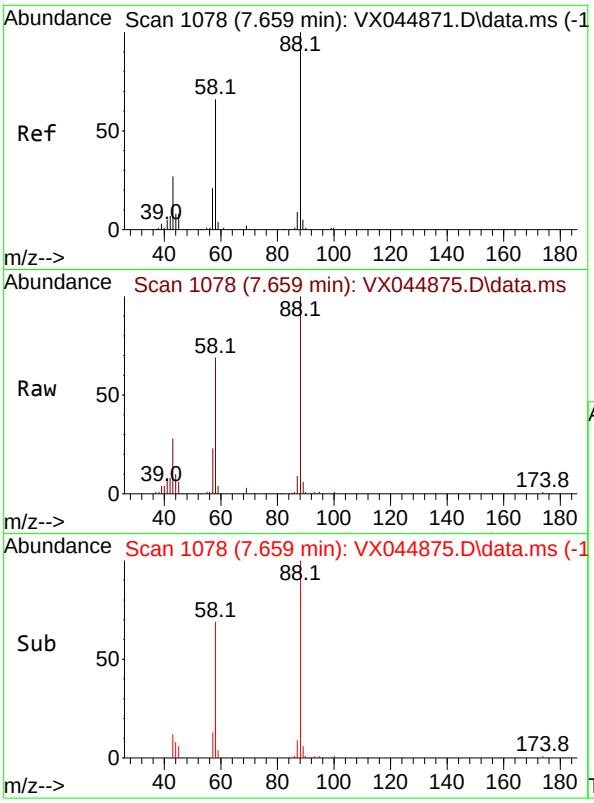


#48
Methyl methacrylate
Concen: 52.848 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 41 Resp: 102900

Ion	Ratio	Lower	Upper
41	100		
69	83.2	65.8	98.8
39	57.8	46.4	69.6



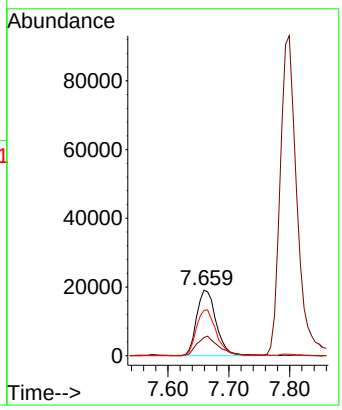


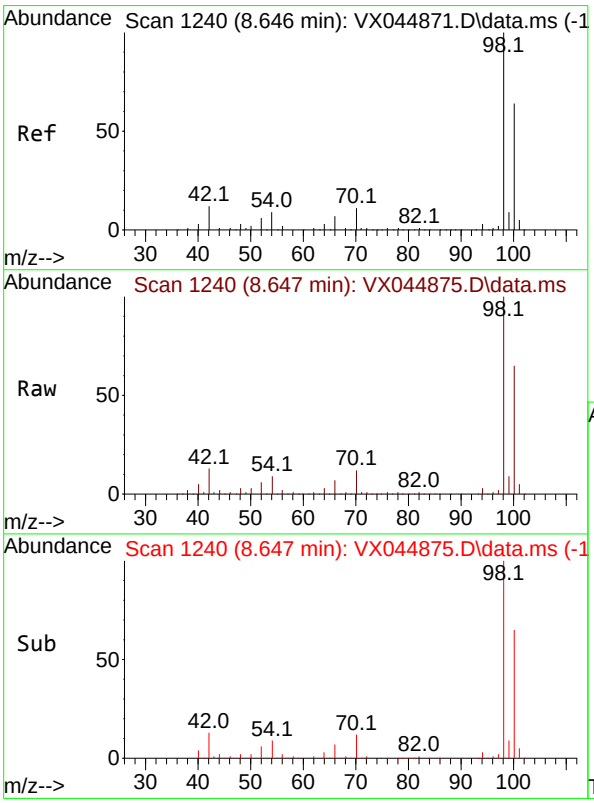
#49
1,4-Dioxane
Concen: 1021.138 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 88 Resp: 42658

Ion	Ratio	Lower	Upper
88	100		
43	32.2	26.6	39.8
58	71.2	55.9	83.9

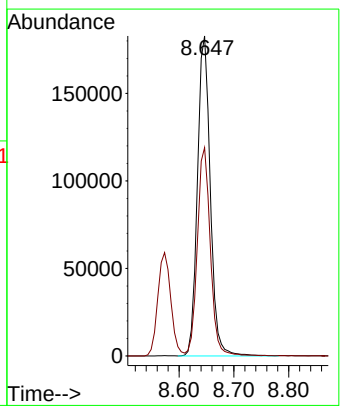


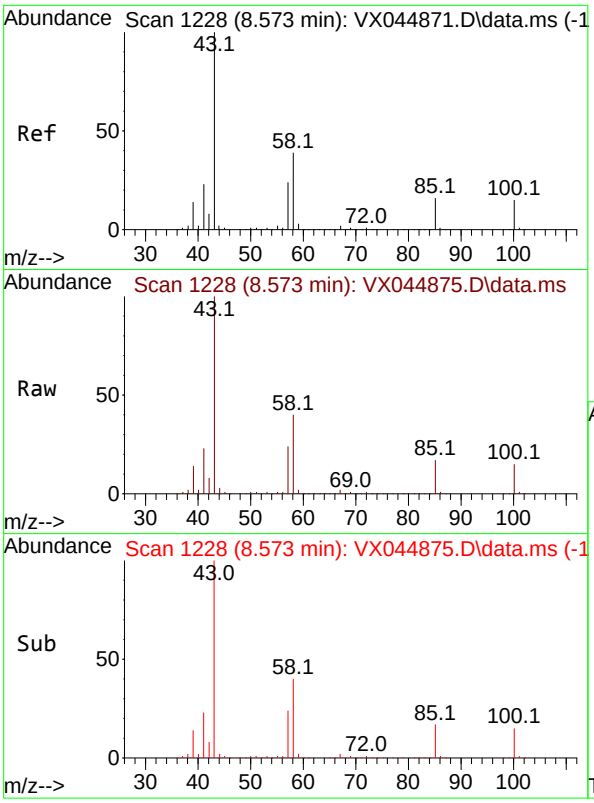


#50
Toluene-d8
Concen: 49.649 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 98 Resp: 299178

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.7	79.1



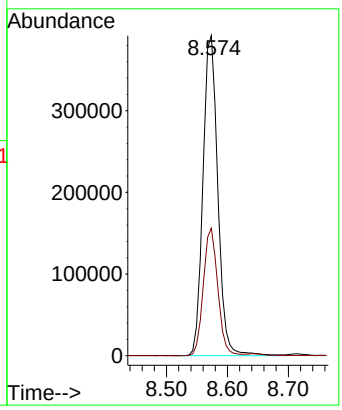


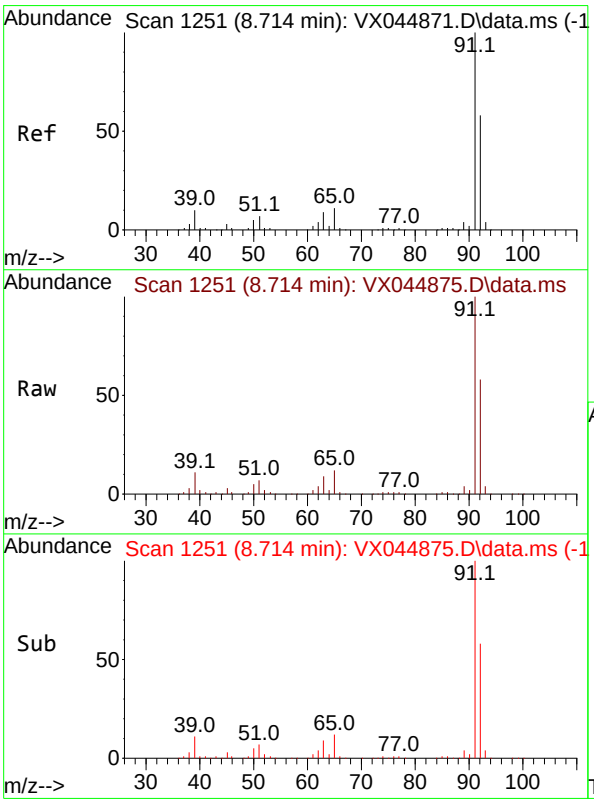
#51
4-Methyl-2-Pentanone
Concen: 265.112 ug/l
RT: 8.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 665564

Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.8	46.2

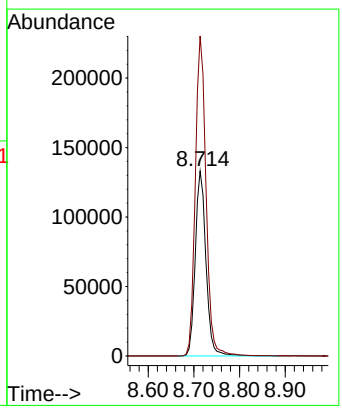


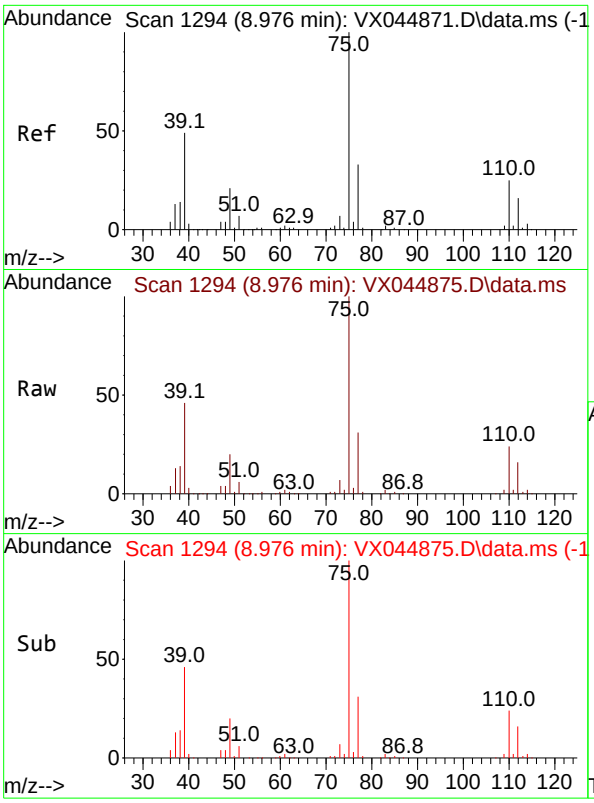


#52
Toluene
Concen: 50.680 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 92 Resp: 216682

Ion	Ratio	Lower	Upper
92	100		
91	173.4	137.4	206.2



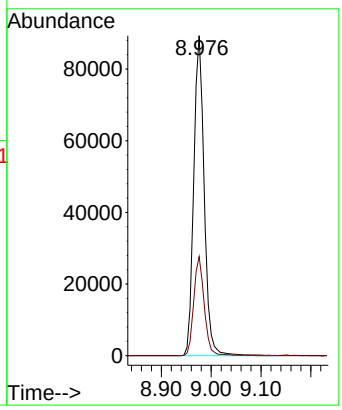


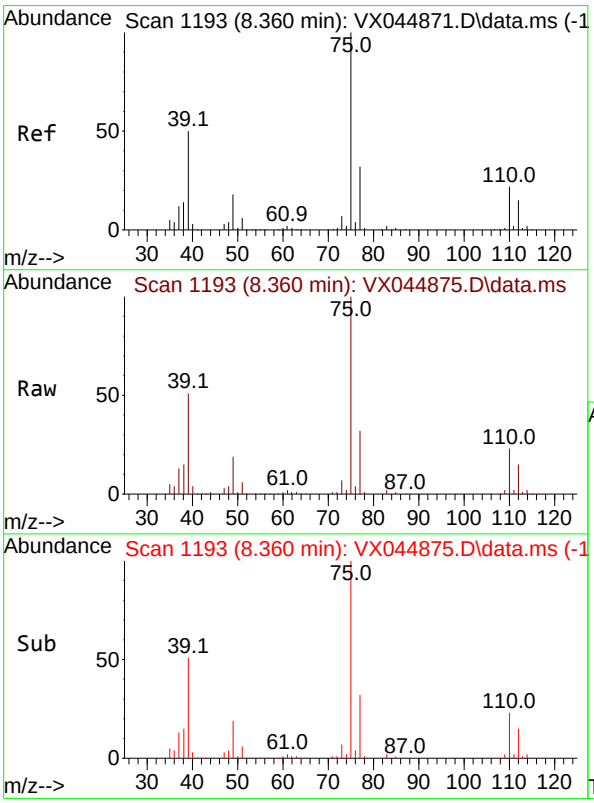
#53
t-1,3-Dichloropropene
Concen: 53.731 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 75 Resp: 130405

Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.0	39.0

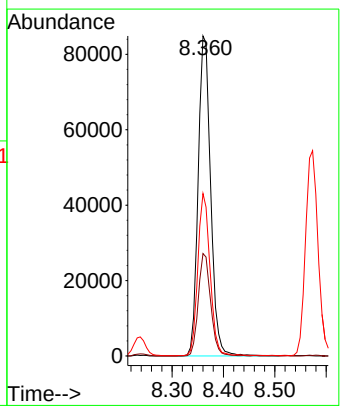


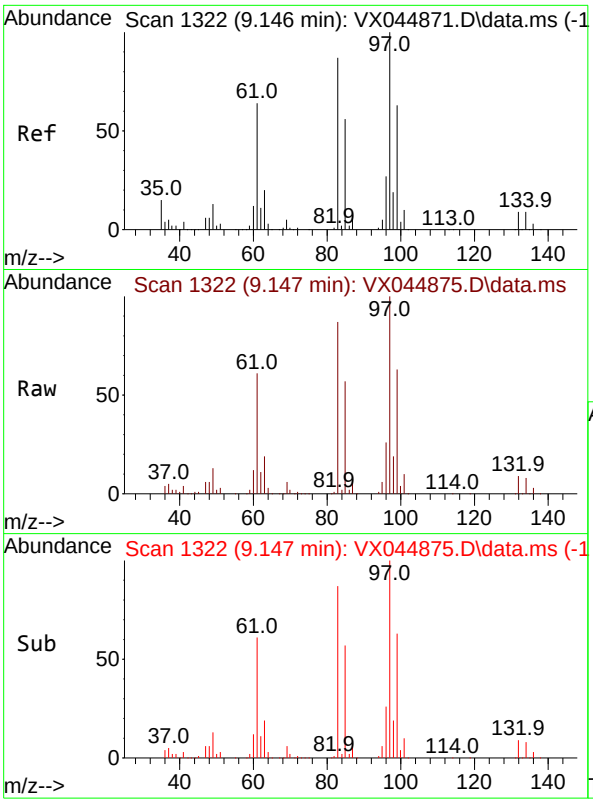


#54
cis-1,3-Dichloropropene
Concen: 52.986 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 143379

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.3	37.9
39	50.6	40.0	60.0



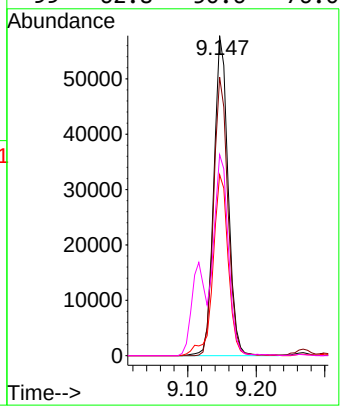


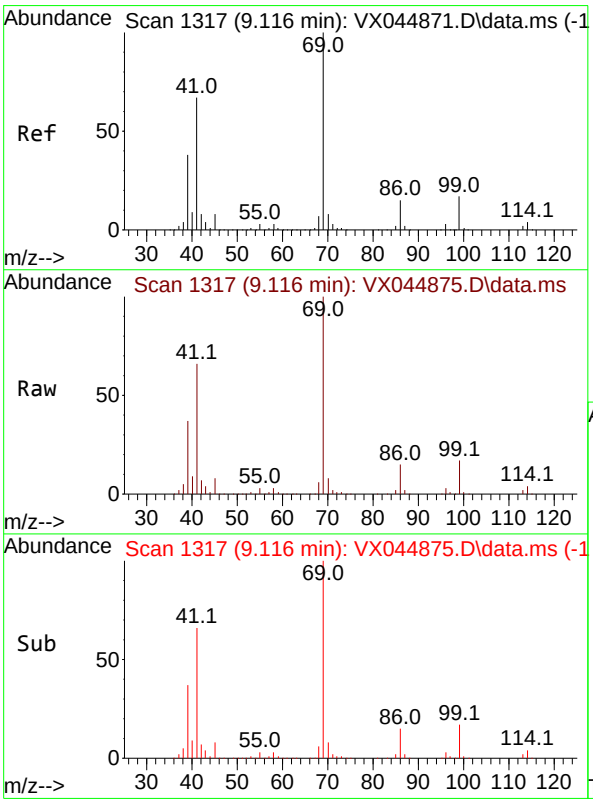
#55
1,1,2-Trichloroethane
Concen: 50.811 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 97 Resp: 83510

Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.8	104.6
85	56.6	44.8	67.2
99	62.8	50.6	76.0

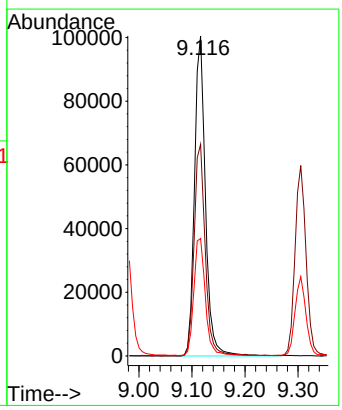


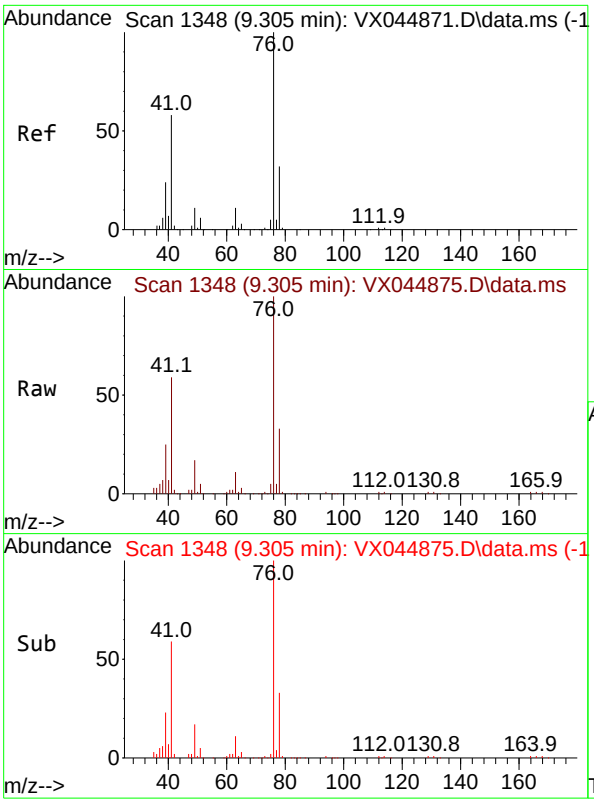


#56
Ethyl methacrylate
Concen: 54.068 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 69 Resp: 143524

Ion	Ratio	Lower	Upper
69	100		
41	67.8	55.2	82.8
39	38.4	30.8	46.2



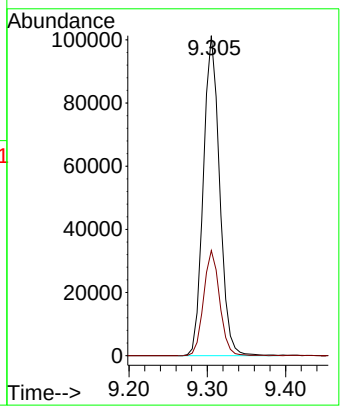


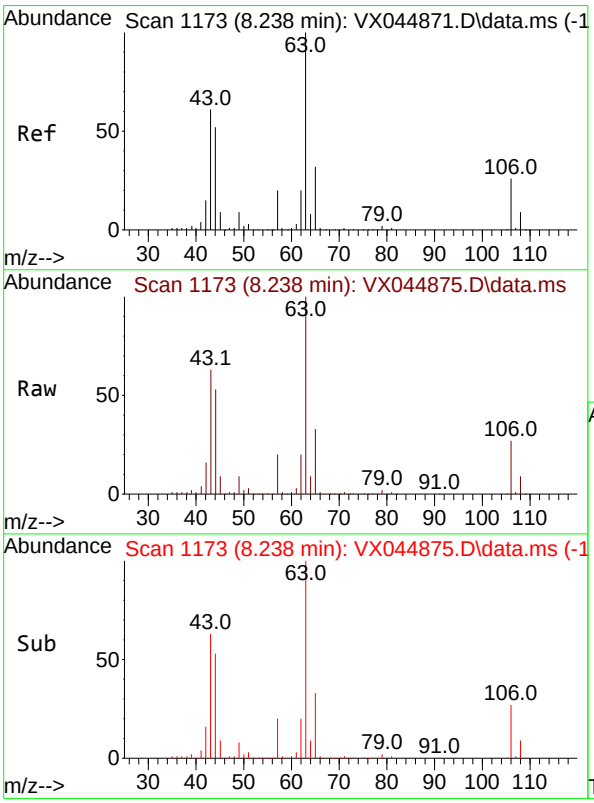
#57
1,3-Dichloropropane
Concen: 50.852 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 76 Resp: 146236

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

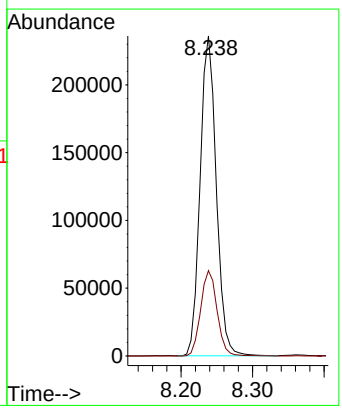


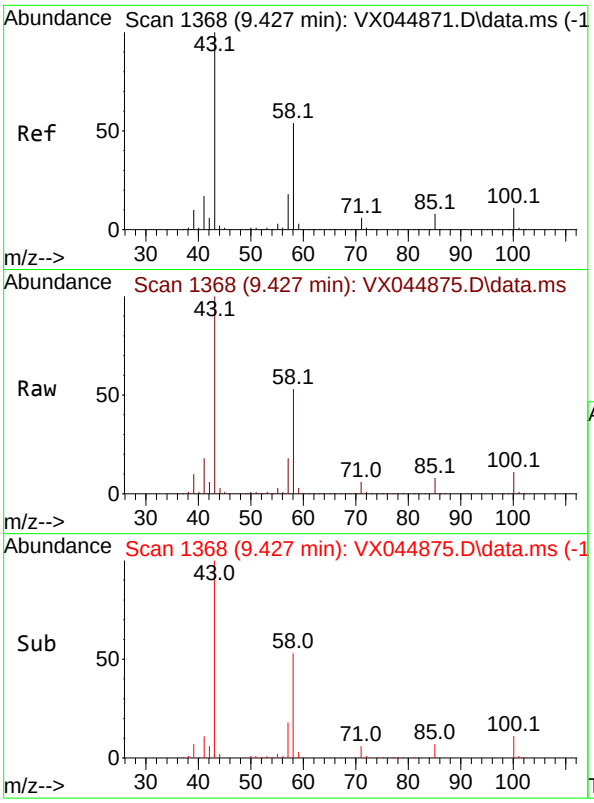


#58
2-Chloroethyl Vinyl ether
Concen: 284.352 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 63 Resp: 370622

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.3	31.9



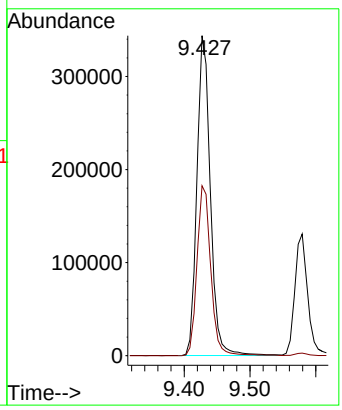


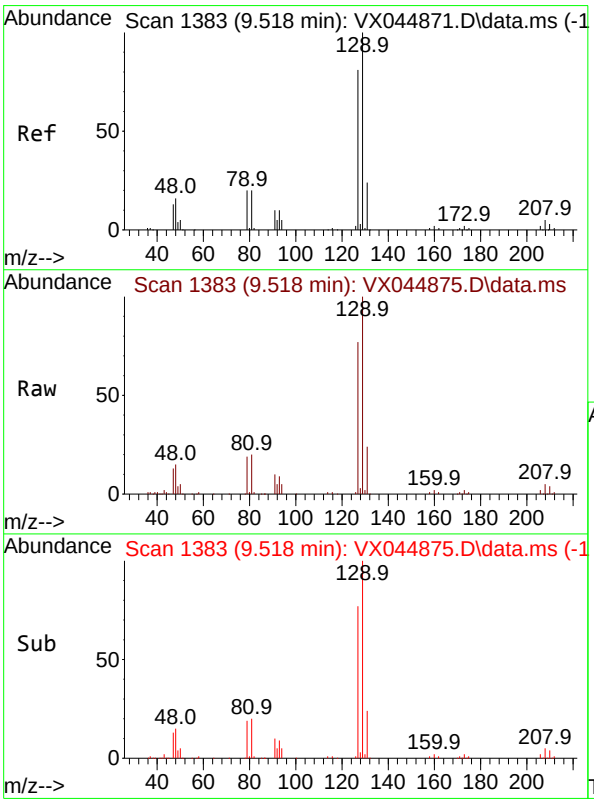
#59
2-Hexanone
Concen: 269.951 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 43 Resp: 488298

Ion	Ratio	Lower	Upper
43	100		
58	54.5	27.5	82.4

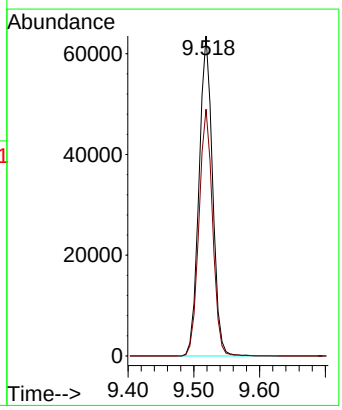


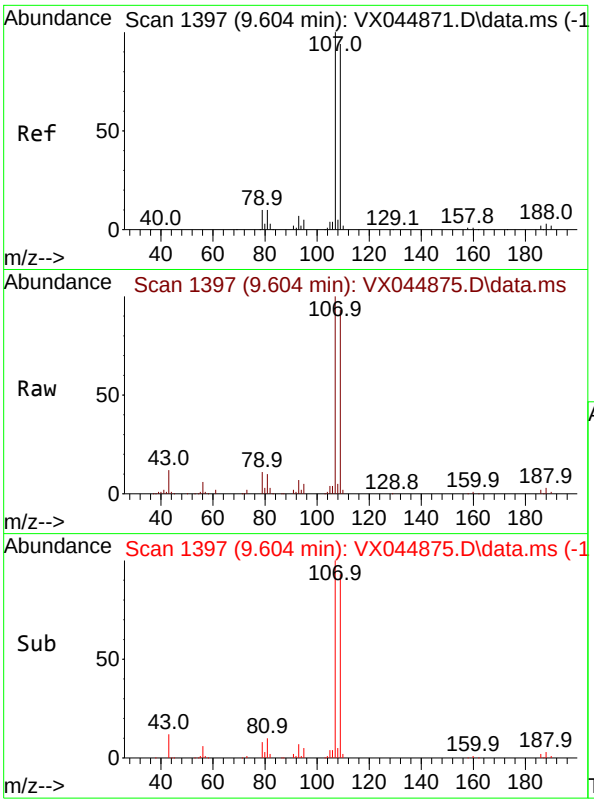


#60
Dibromochloromethane
Concen: 51.673 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:129 Resp: 90826

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.3



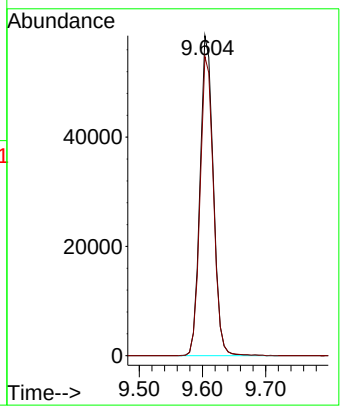


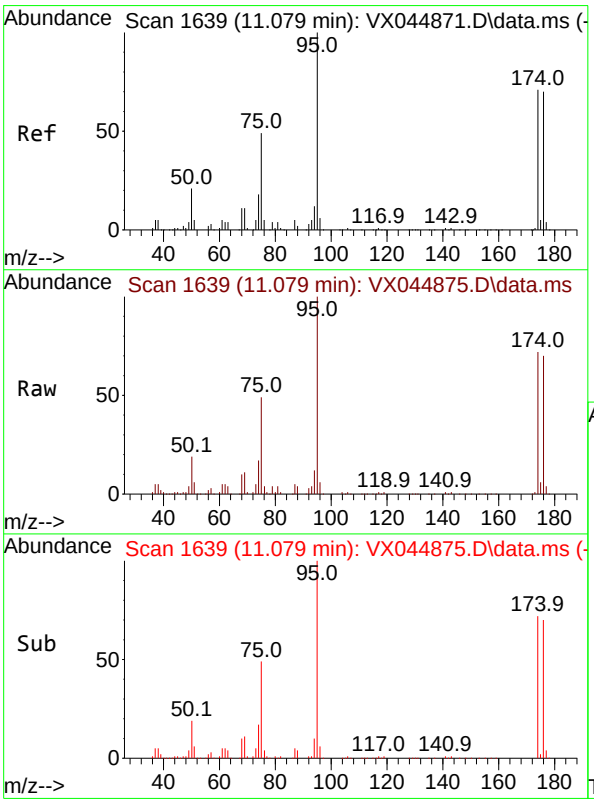
#61
1,2-Dibromoethane
Concen: 51.436 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:107 Resp: 85683

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9

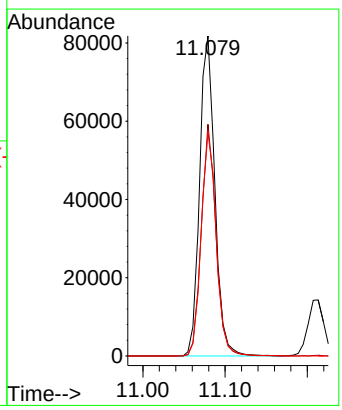


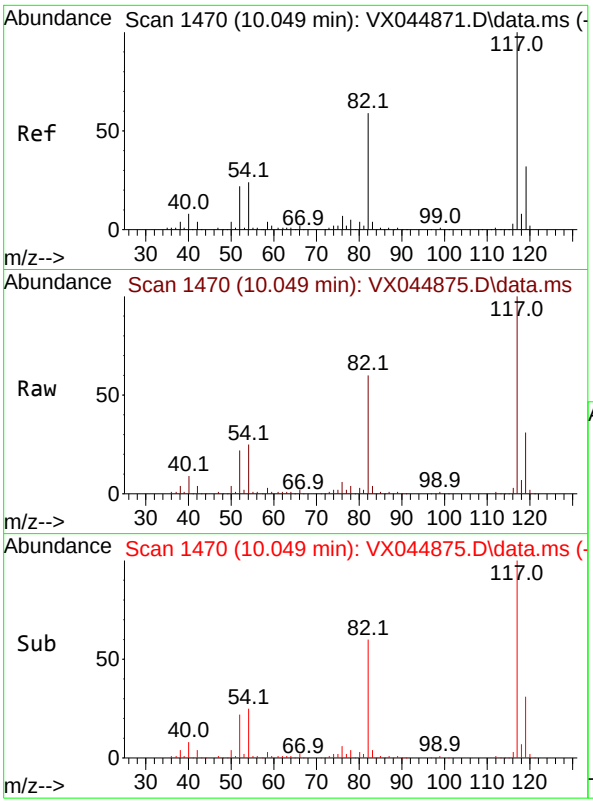


#62
4-Bromofluorobenzene
Concen: 51.786 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 95 Resp: 105201

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	142.6
176	68.9	0.0	141.6



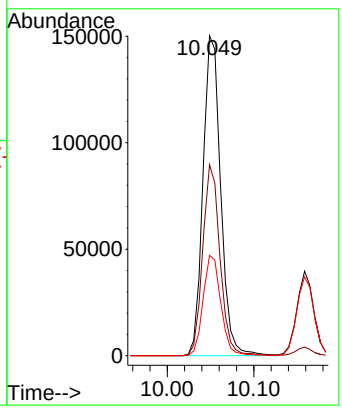


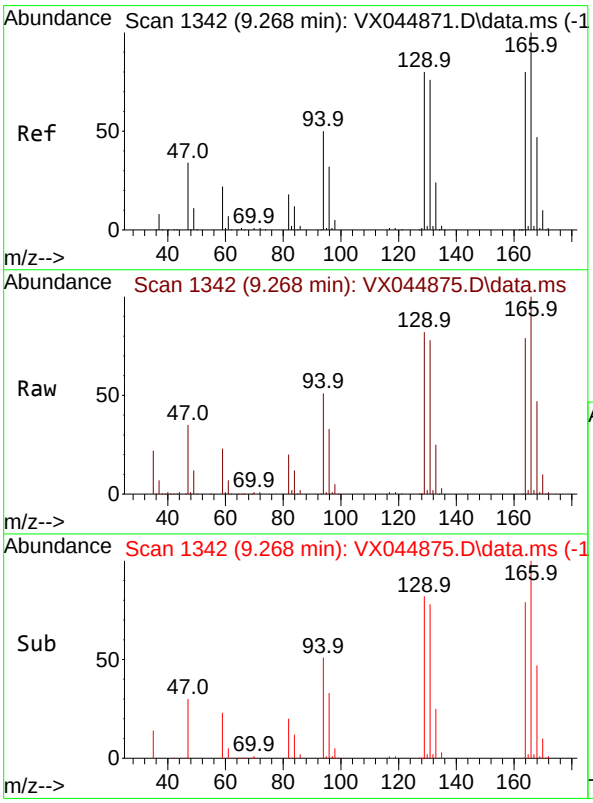
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:117 Resp: 213248

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.5	71.3
119	31.3	25.4	38.0

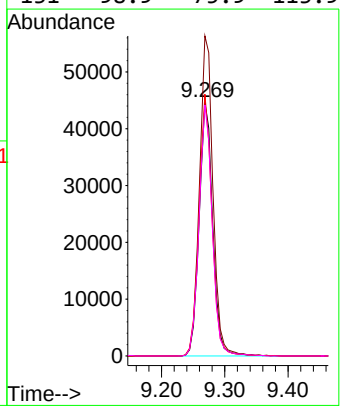


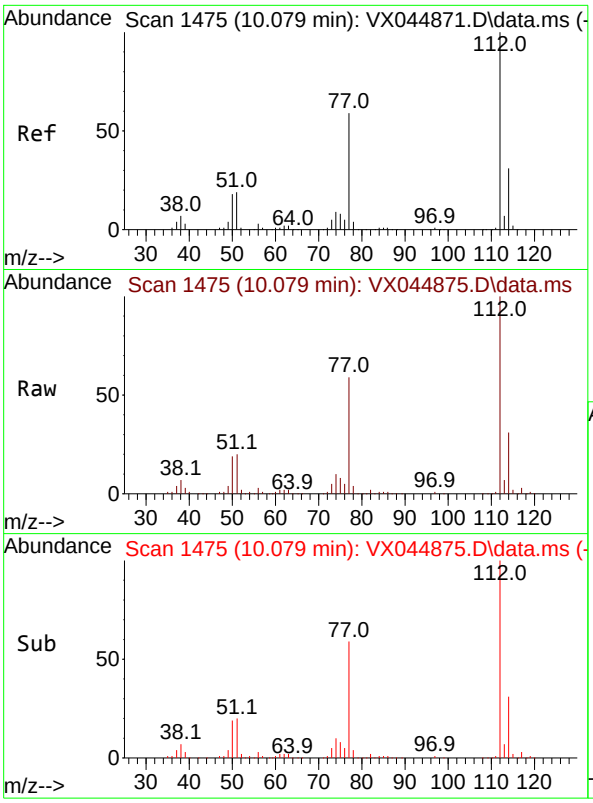


#64
Tetrachloroethene
Concen: 49.424 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:164 Resp: 66468

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.4	150.6
129	103.1	79.9	119.9
131	98.9	75.9	113.9



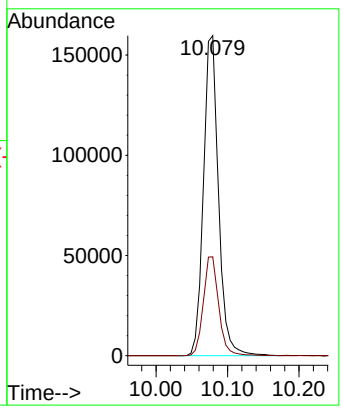


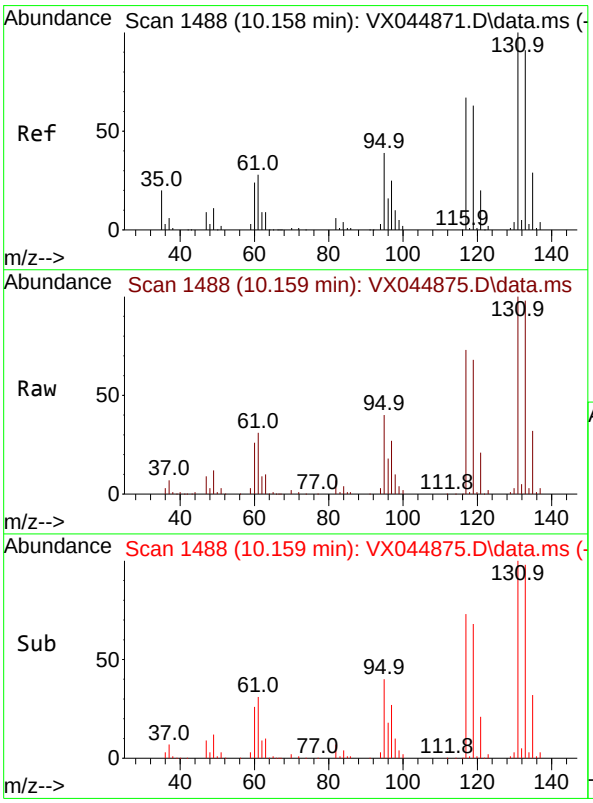
#65
Chlorobenzene
Concen: 50.952 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:112 Resp: 233373

Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.0	37.6

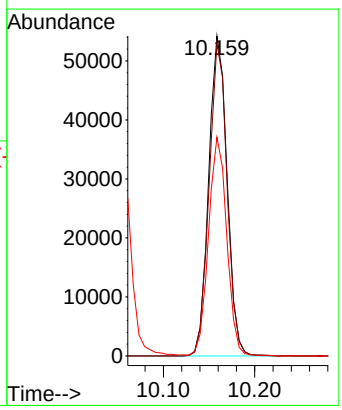


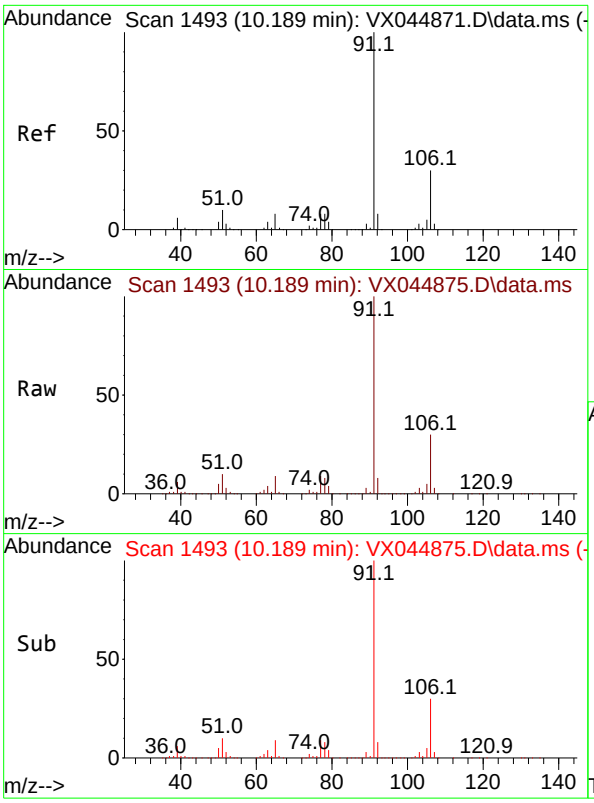


#66
1,1,1,2-Tetrachloroethane
Concen: 51.205 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:131 Resp: 75488

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.1	141.3
119	68.2	33.6	100.6



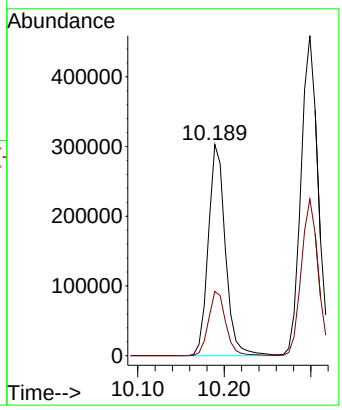


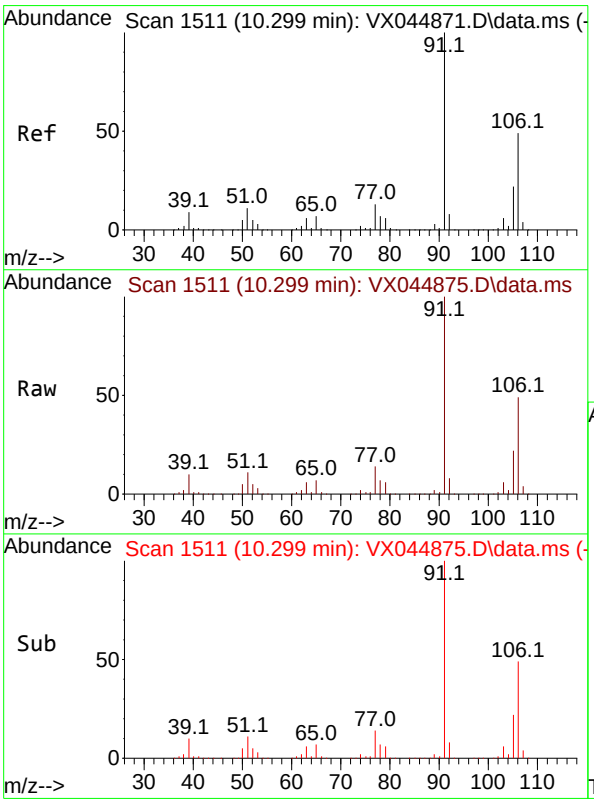
#67
Ethyl Benzene
Concen: 51.415 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 91 Resp: 415575

Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.9	35.9

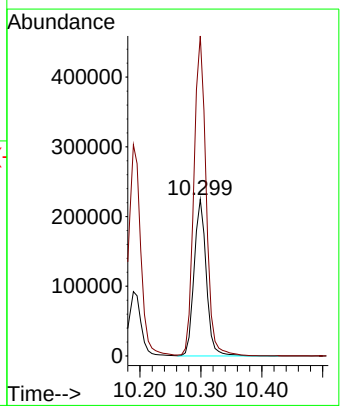


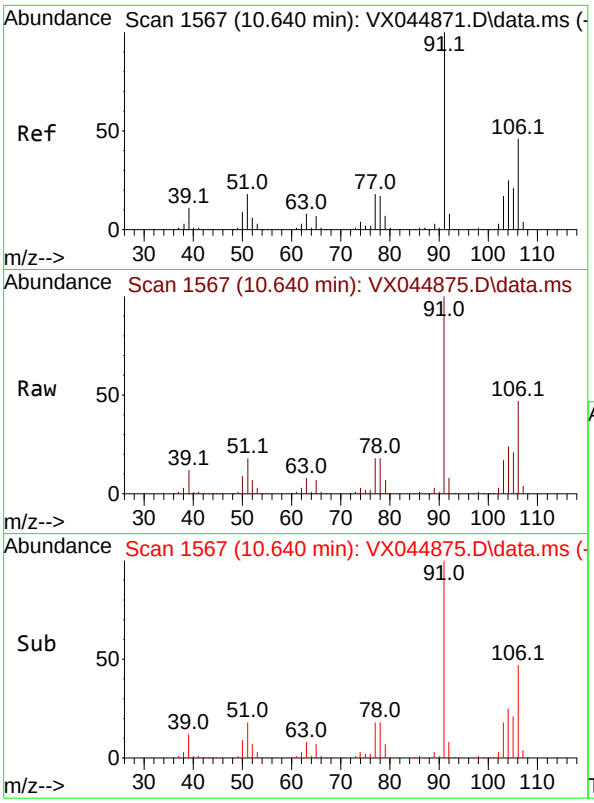


#68
m/p-Xylenes
Concen: 104.282 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:106 Resp: 310925

Ion	Ratio	Lower	Upper
106	100		
91	205.2	164.3	246.5



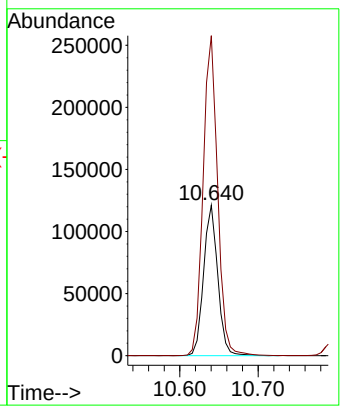


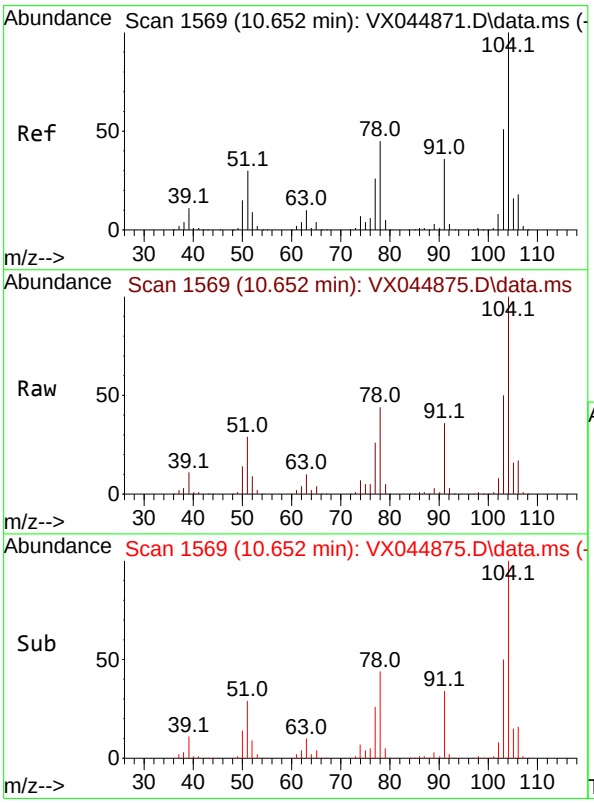
#69
o-Xylene
Concen: 50.804 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:106 Resp: 151995

Ion	Ratio	Lower	Upper
106	100		
91	217.1	108.5	325.5

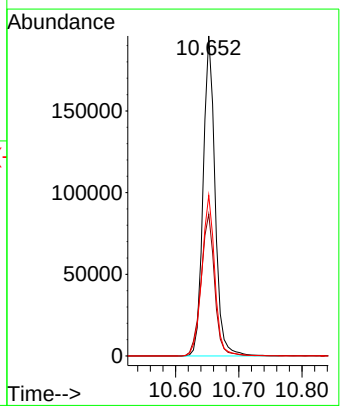


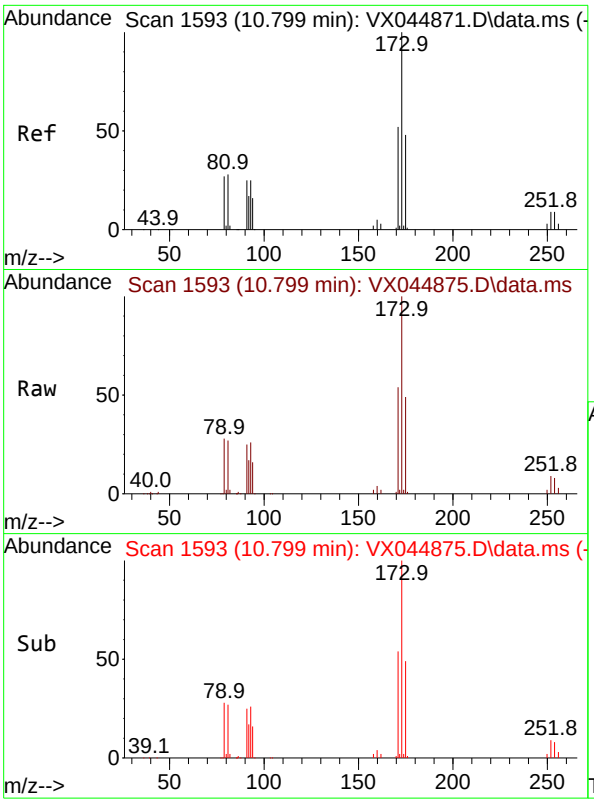


#70
Styrene
Concen: 53.521 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:104 Resp: 257972

Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.5	60.7
103	54.5	43.6	65.4



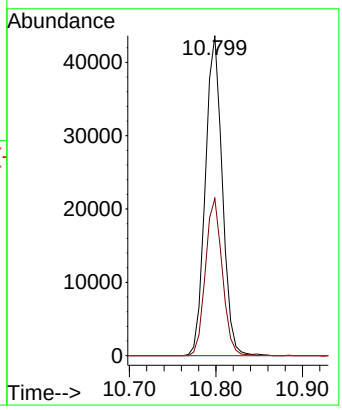


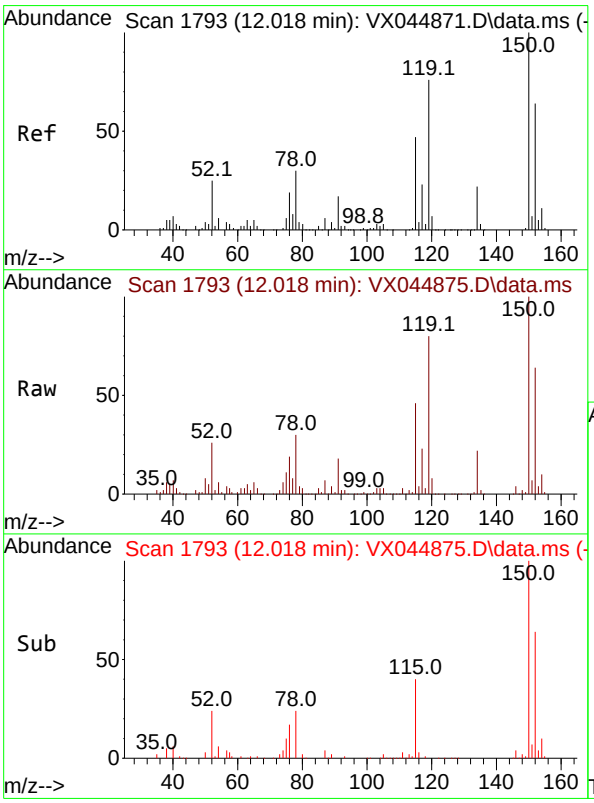
#71
Bromoform
Concen: 53.997 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:173 Resp: 59409

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	72.8
254	0.0	0.0	0.0

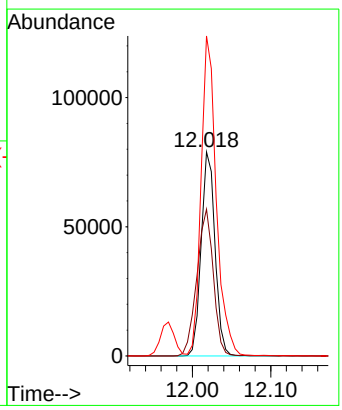


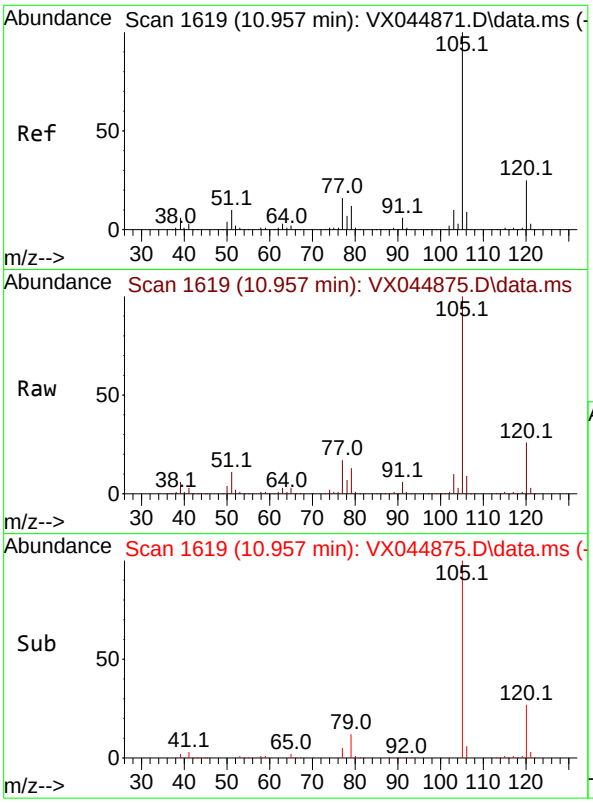


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:152 Resp: 97087

Ion	Ratio	Lower	Upper
152	100		
115	85.5	43.4	130.1
150	171.8	0.0	350.4



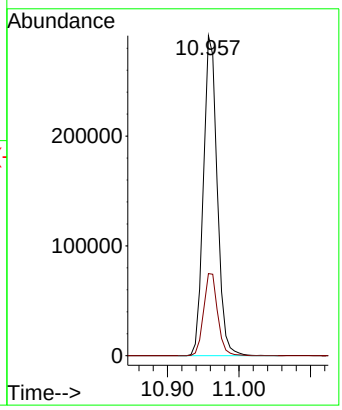


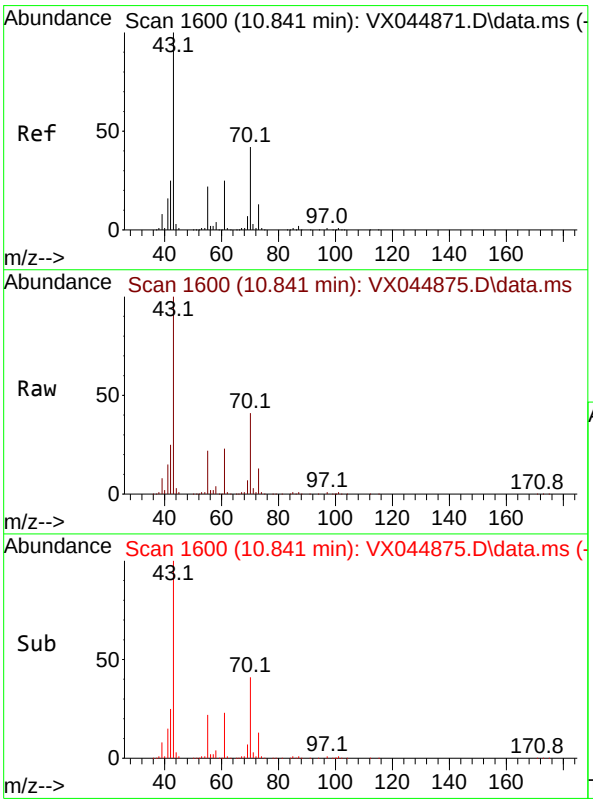
#73
Isopropylbenzene
Concen: 49.921 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:105 Resp: 390246

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.5

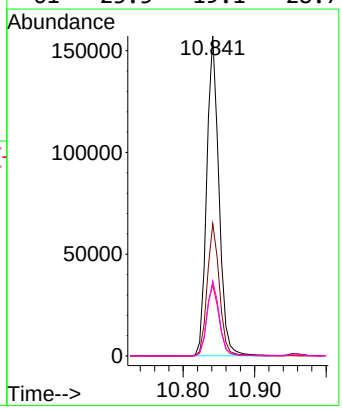


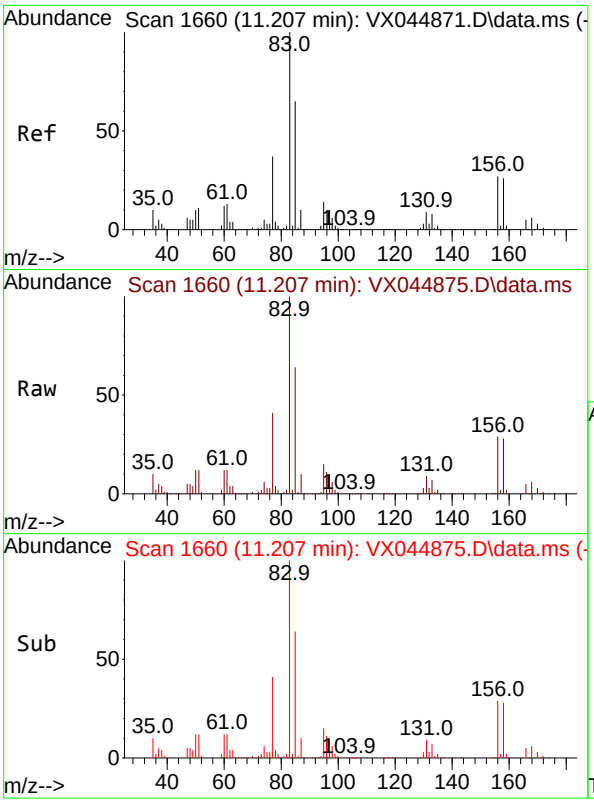


#74
N-amyl acetate
Concen: 52.621 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 43 Resp: 186145

Ion	Ratio	Lower	Upper
43	100		
70	41.4	33.7	50.5
55	22.8	18.6	27.8
61	23.5	19.1	28.7



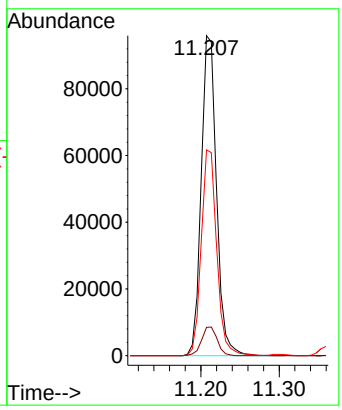


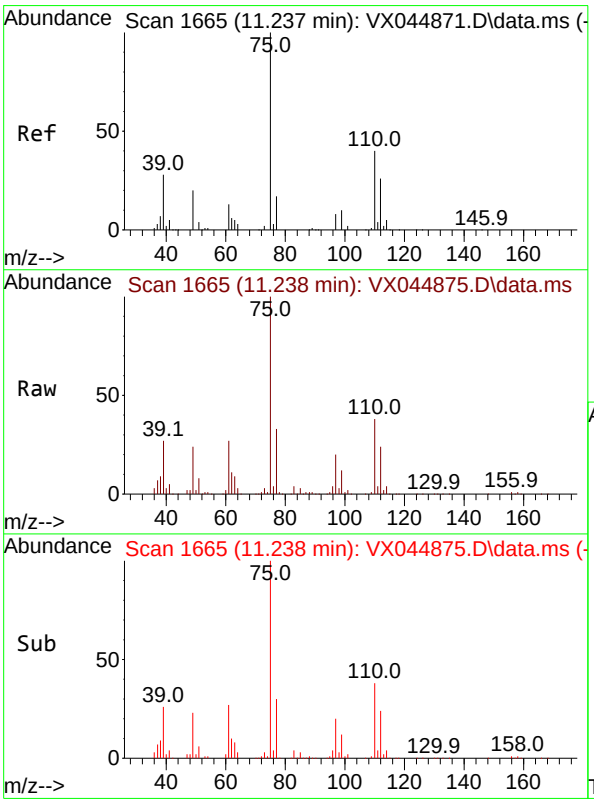
#75
1,1,2,2-Tetrachloroethane
Concen: 48.331 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 83 Resp: 129829

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.5
85	65.1	32.3	96.8

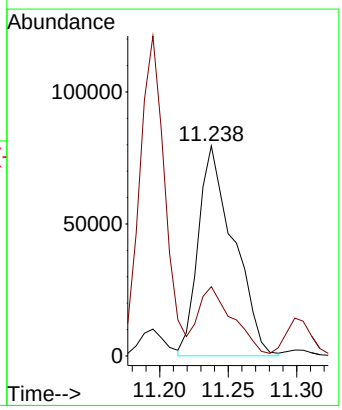


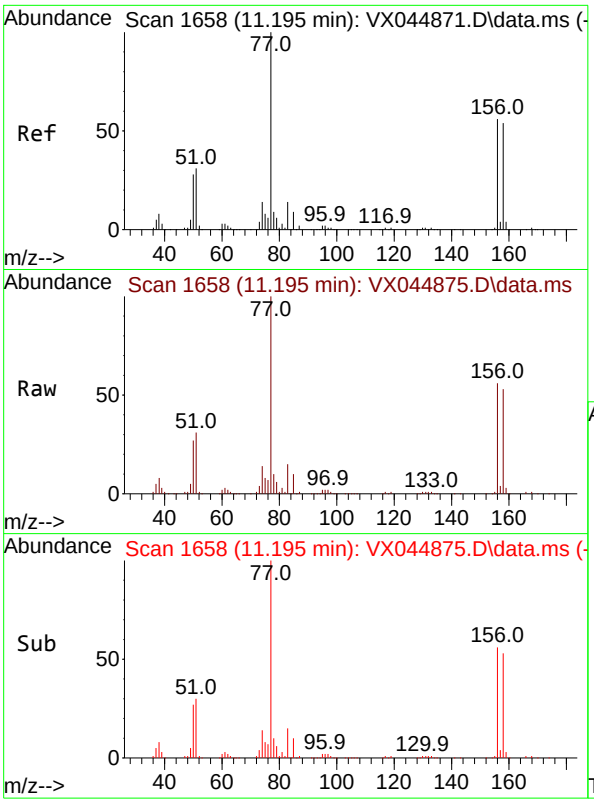


#76
1,2,3-Trichloropropane
Concen: 66.510 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 143167

Ion	Ratio	Lower	Upper
75	100		
77	32.6	21.9	65.7



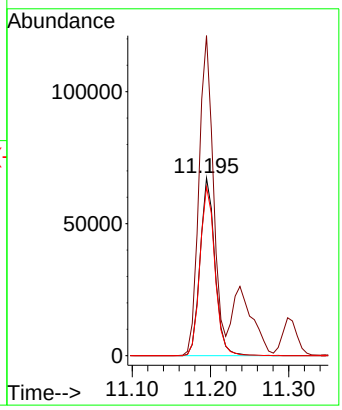


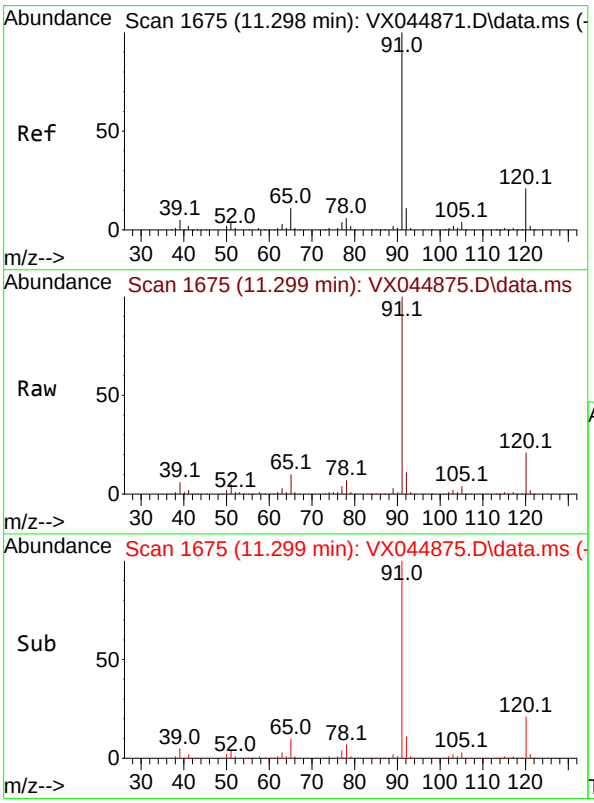
#77
Bromobenzene
Concen: 49.725 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:156 Resp: 88129

Ion	Ratio	Lower	Upper
156	100		
77	176.3	88.4	265.3
158	96.7	48.4	145.2

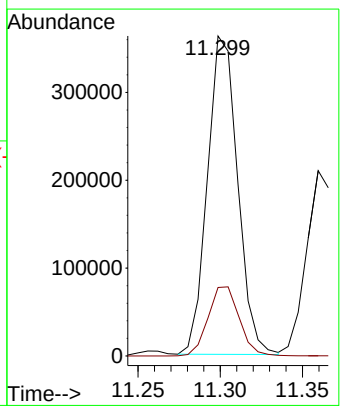


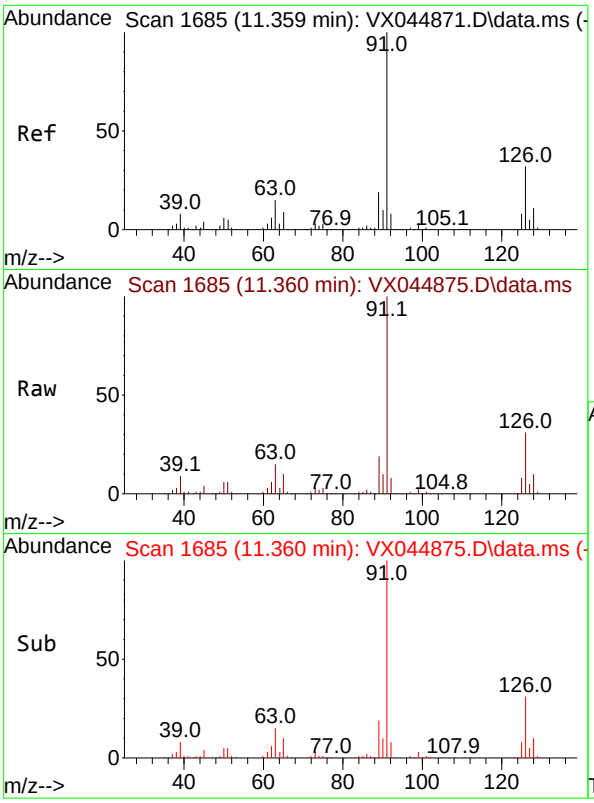


#78
n-propylbenzene
Concen: 51.386 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 463655

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3



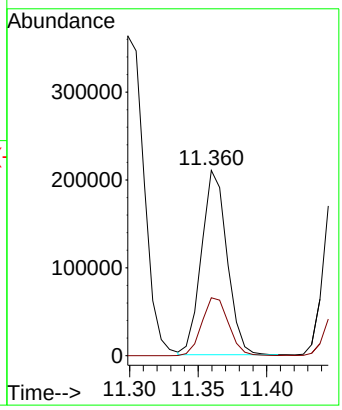


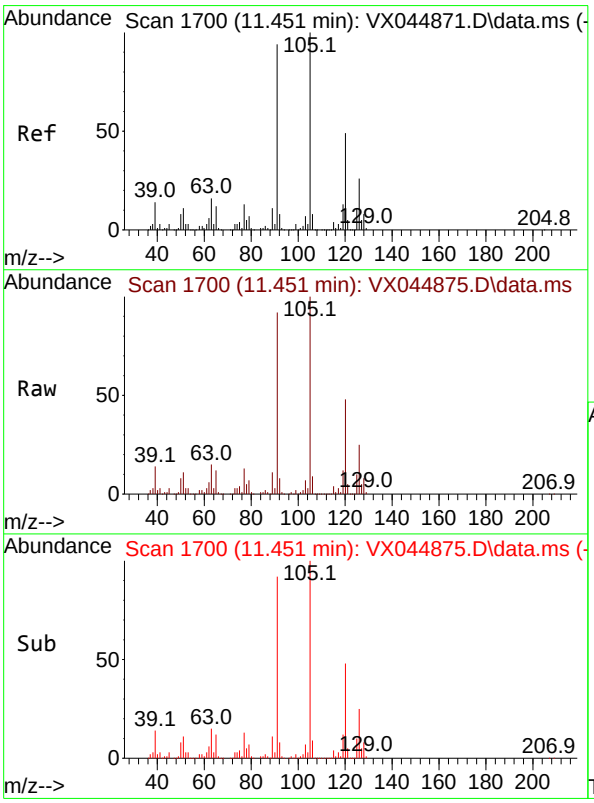
#79
2-Chlorotoluene
Concen: 49.065 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 91 Resp: 272091

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.2	48.6

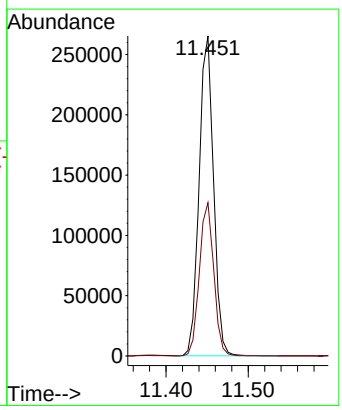


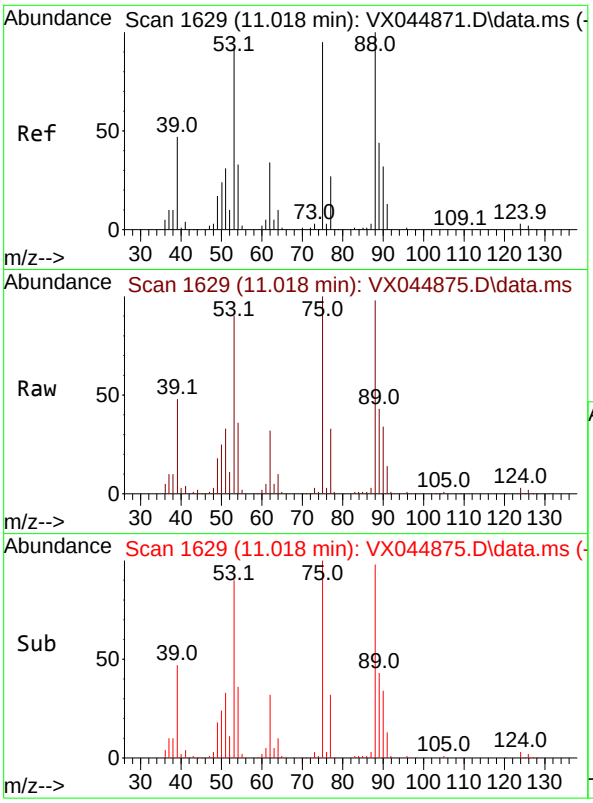


#80
1,3,5-Trimethylbenzene
Concen: 50.956 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 323251

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0



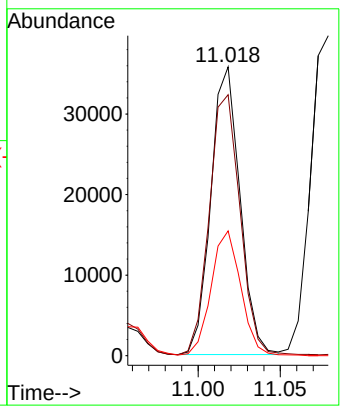


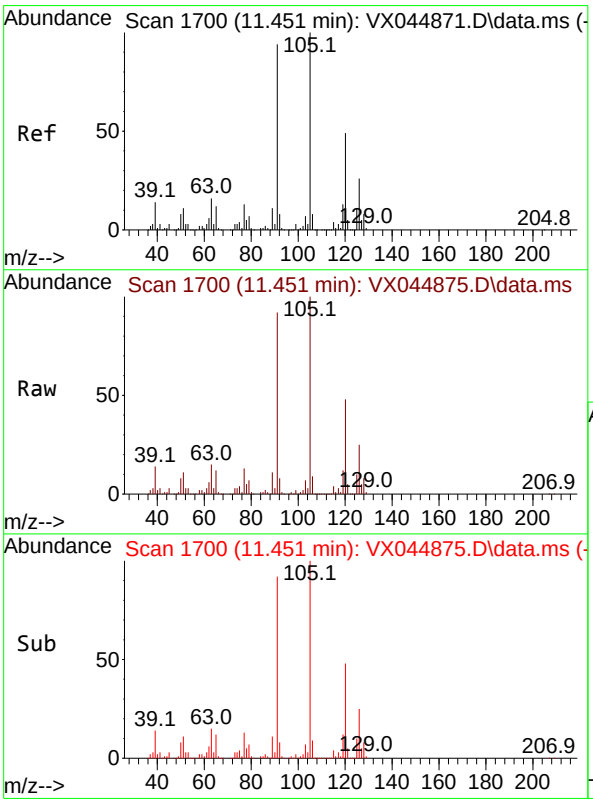
#81
trans-1,4-Dichloro-2-butene
Concen: 52.665 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 75 Resp: 44070

Ion	Ratio	Lower	Upper
75	100		
53	96.9	78.0	117.0
89	44.3	36.6	54.8

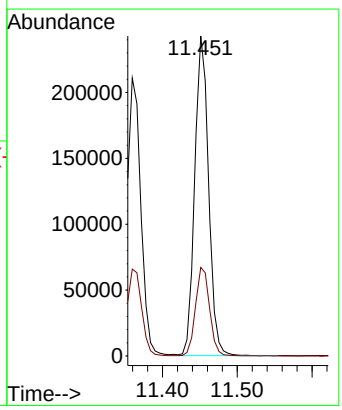


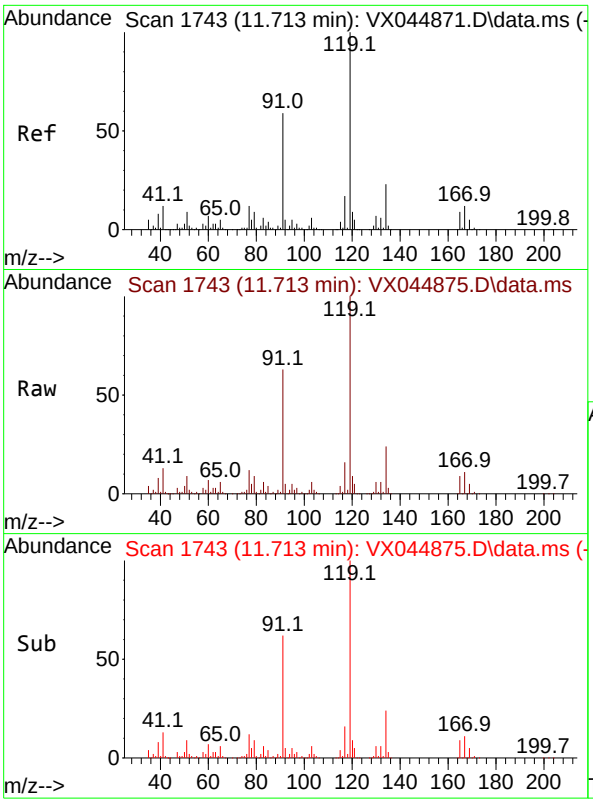


#82
4-Chlorotoluene
Concen: 50.872 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 91 Resp: 312112

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.2	42.6



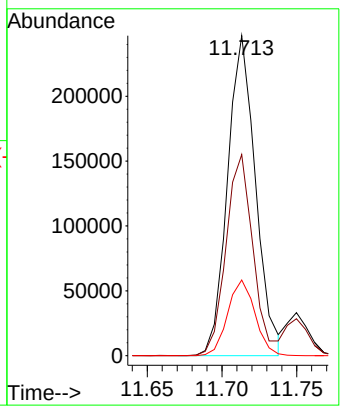


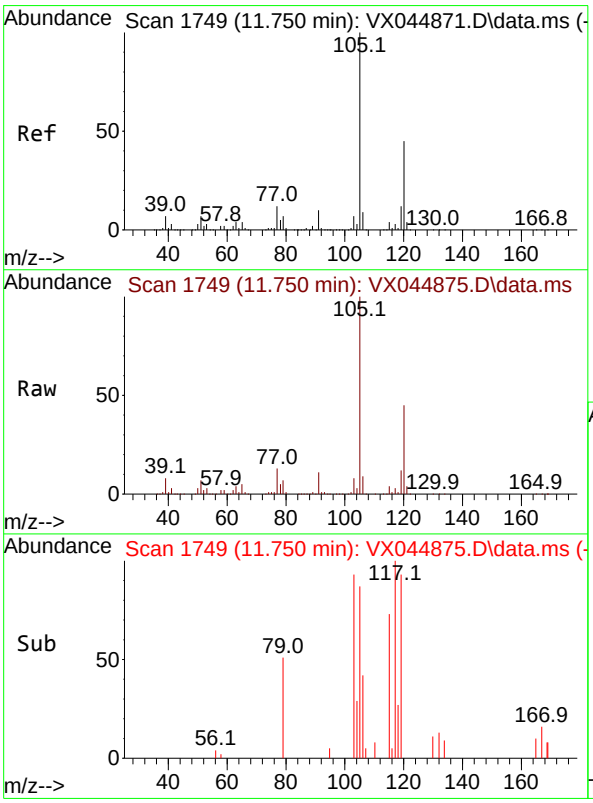
#83
tert-Butylbenzene
Concen: 50.139 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:119 Resp: 321772

Ion	Ratio	Lower	Upper
119	100		
91	60.7	29.1	87.4
134	23.0	11.5	34.5

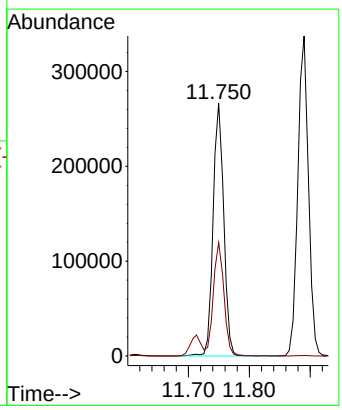


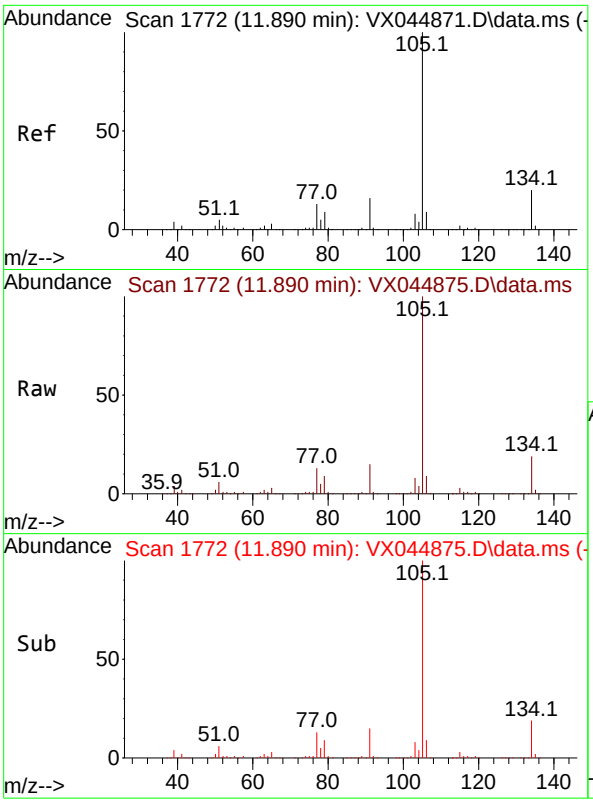


#84
1,2,4-Trimethylbenzene
Concen: 51.593 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:105 Resp: 323035

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.4	67.0



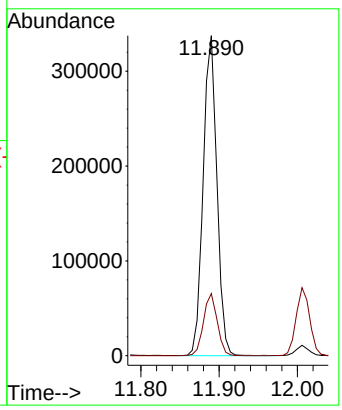


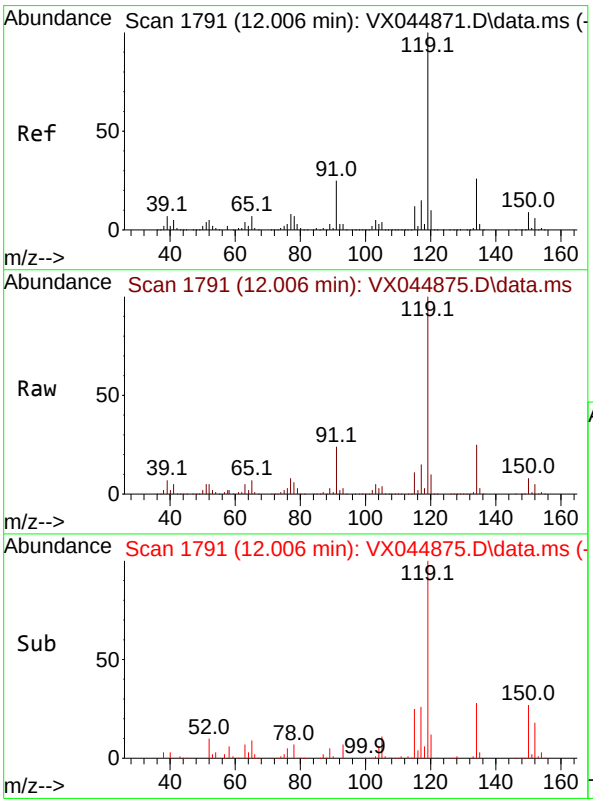
#85
sec-Butylbenzene
Concen: 51.617 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:105 Resp: 410197

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.3

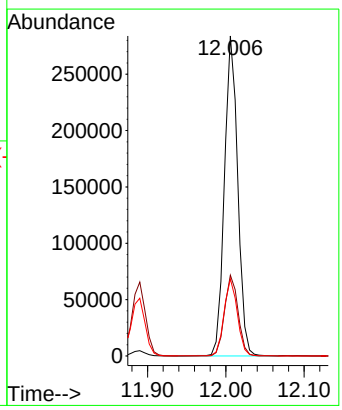


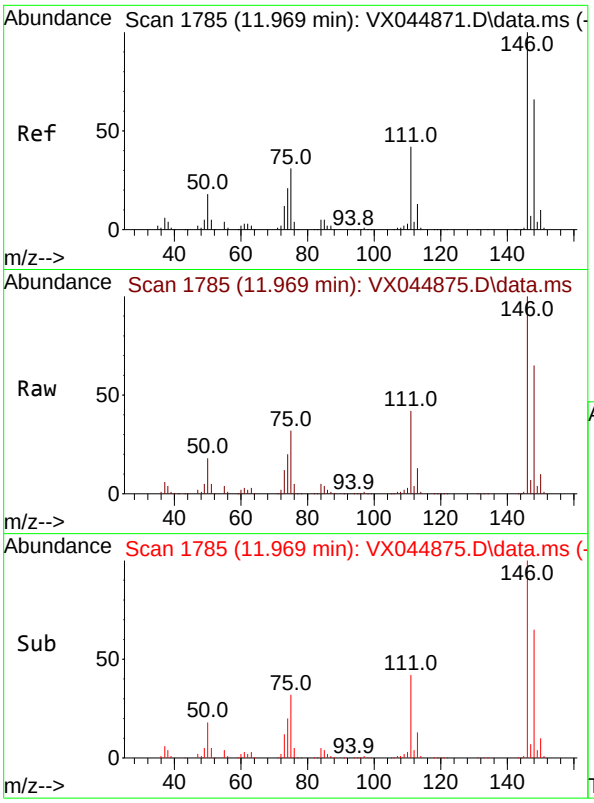


#86
p-Isopropyltoluene
Concen: 52.581 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:119 Resp: 336027

Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.0	38.9
91	24.0	12.1	36.3



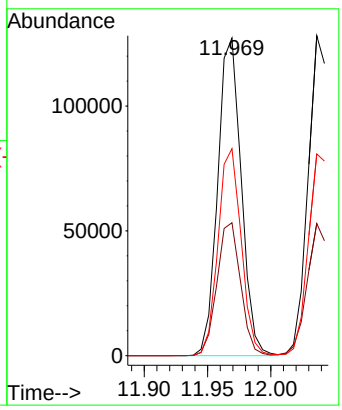


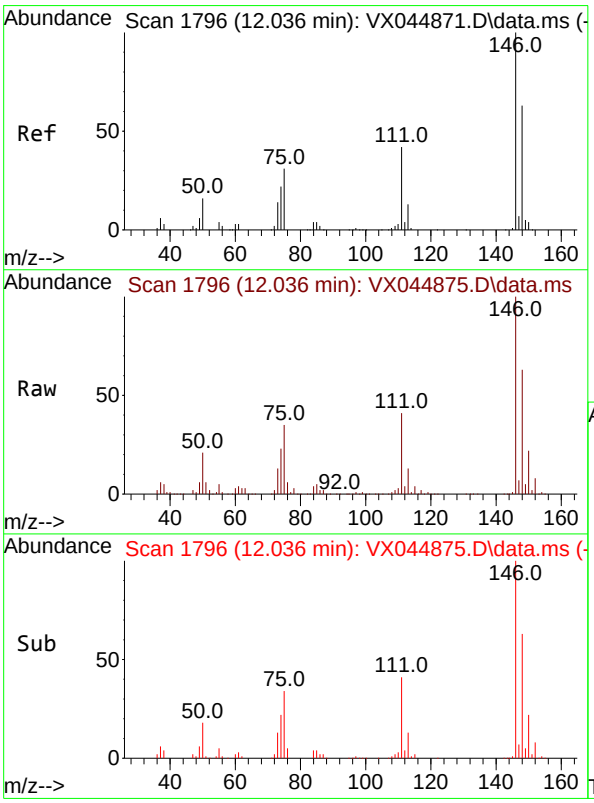
#87
1,3-Dichlorobenzene
Concen: 50.475 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:146 Resp: 164508

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.2	63.6
148	64.3	32.5	97.5

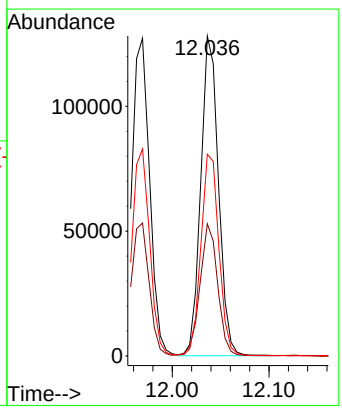


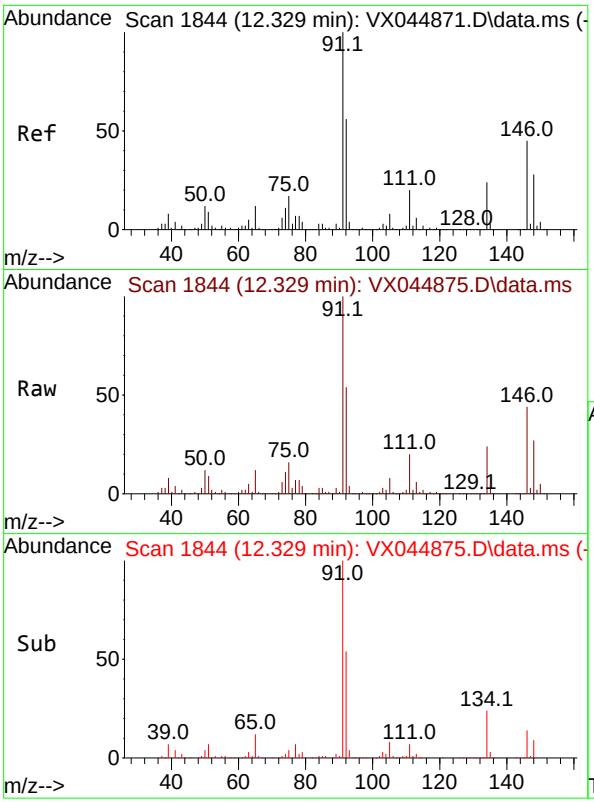


#88
1,4-Dichlorobenzene
Concen: 49.526 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:146 Resp: 163203

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.4	61.3
148	64.2	32.0	96.0



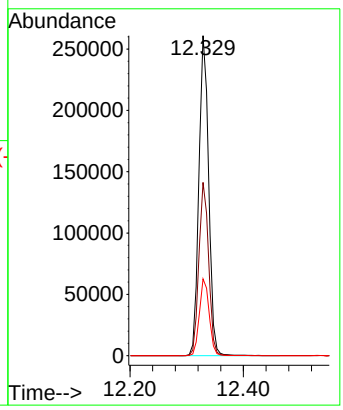


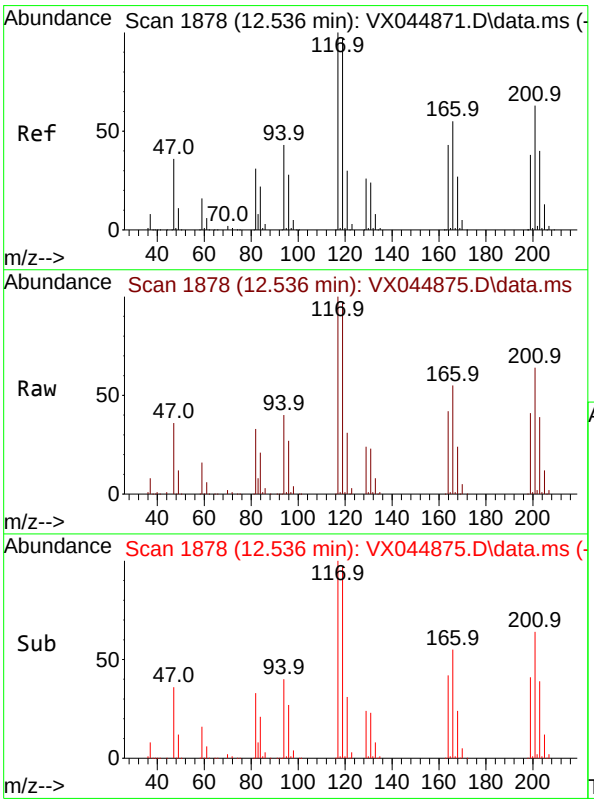
#89
n-Butylbenzene
Concen: 55.142 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion: 91 Resp: 311764

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.2	81.6
134	24.1	12.1	36.3

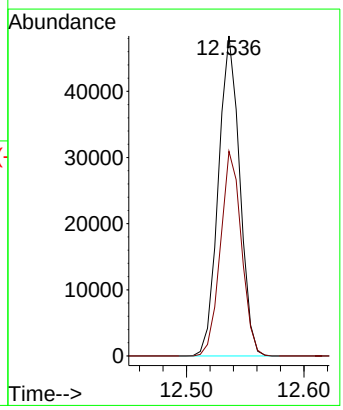


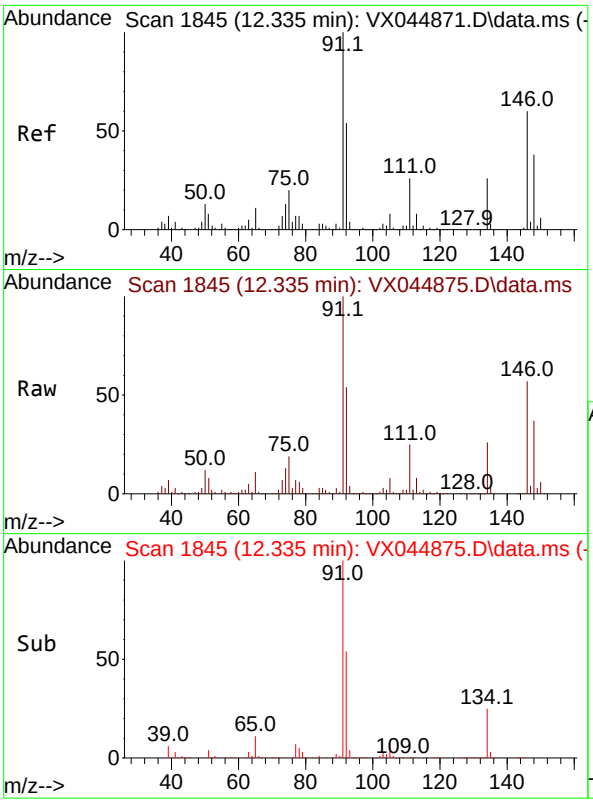


#90
Hexachloroethane
Concen: 50.990 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:117 Resp: 61016

Ion	Ratio	Lower	Upper
117	100		
201	63.1	32.5	97.5



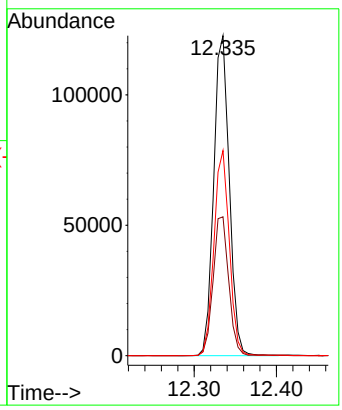


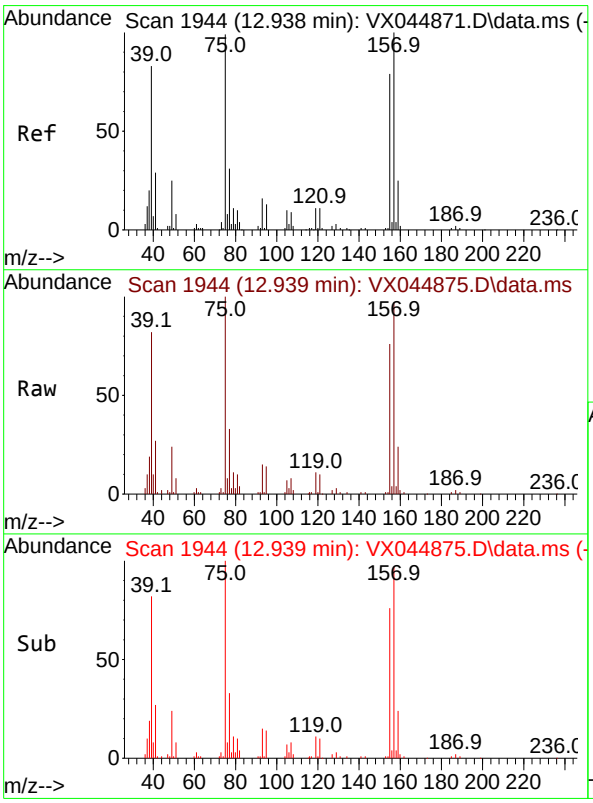
#91
1,2-Dichlorobenzene
Concen: 50.447 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:146 Resp: 161590

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.8	65.4
148	63.3	31.9	95.9

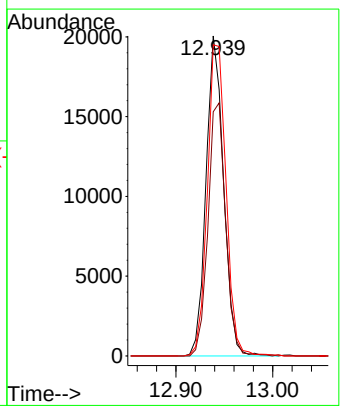


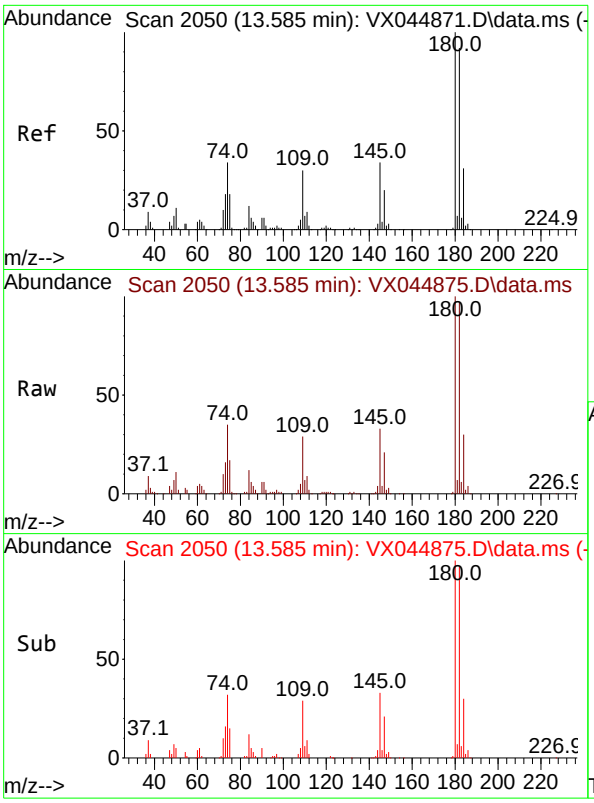


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.684 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion: 75 Resp: 25339

Ion	Ratio	Lower	Upper
75	100		
155	79.5	40.5	121.4
157	103.5	51.4	154.3



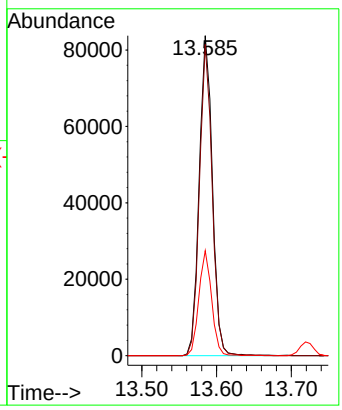


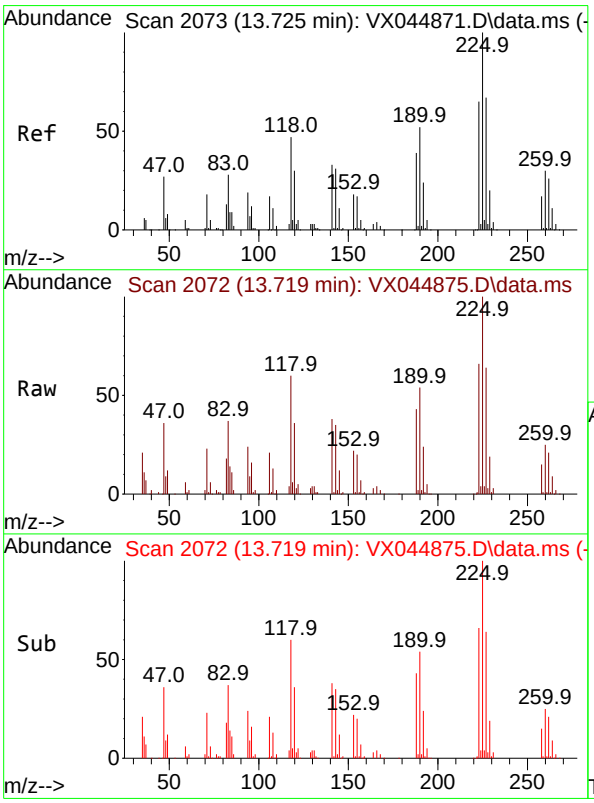
#93
1,2,4-Trichlorobenzene
Concen: 52.726 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:180 Resp: 102197

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.6	142.8
145	31.9	16.4	49.1

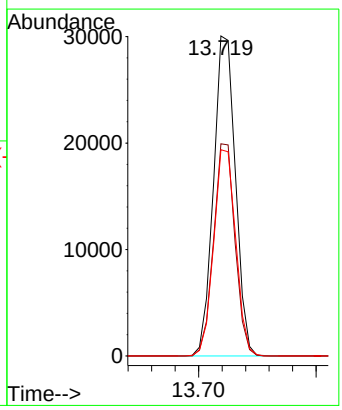


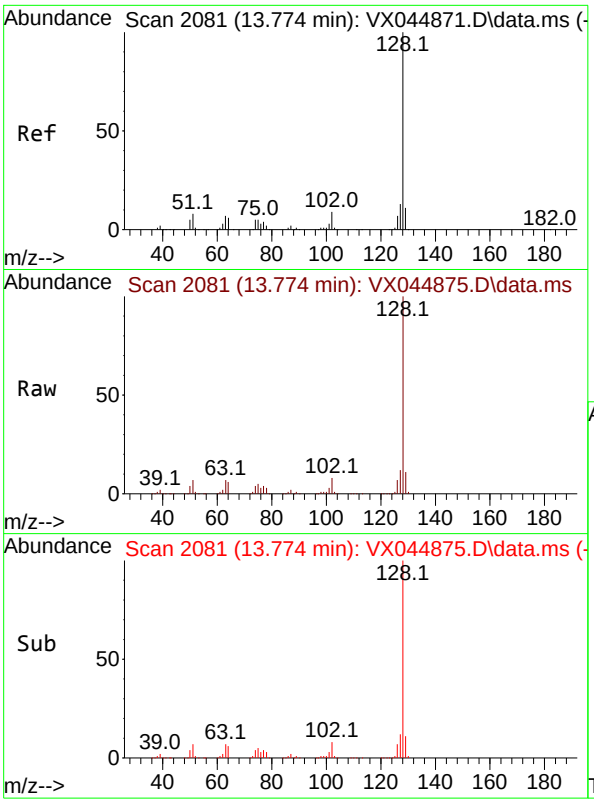


#94
Hexachlorobutadiene
Concen: 50.683 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:225 Resp: 38998

Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.4	94.2
227	64.8	32.3	96.8



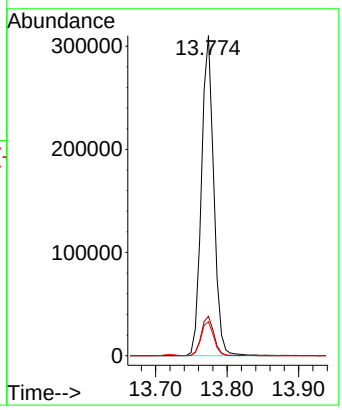


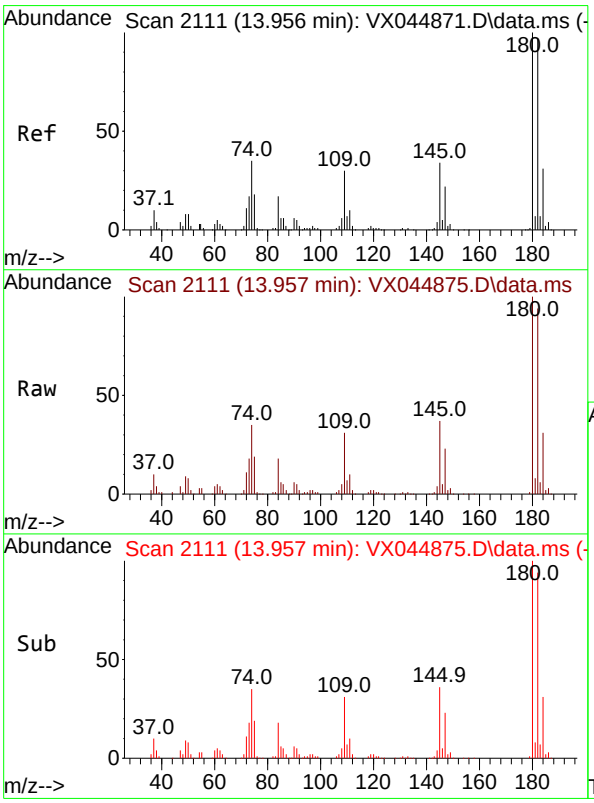
#95
Naphthalene
Concen: 53.033 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX021025

Tgt Ion:128 Resp: 371576

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.9	8.9	13.3

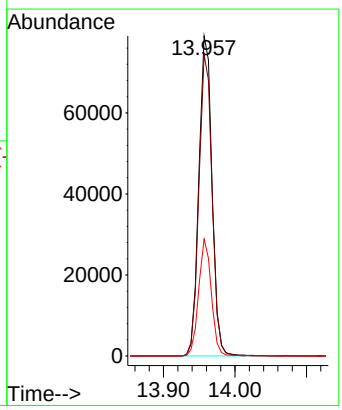




#96
1,2,3-Trichlorobenzene
Concen: 51.575 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044875.D
Acq: 10 Feb 2025 13:15

Tgt Ion:180 Resp: 100730

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.9	143.6
145	35.2	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	111649	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	194847	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	171164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	79140	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81025	49.577	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.160%			
35) Dibromofluoromethane	5.373	113	65208	51.473	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.940%			
50) Toluene-d8	8.640	98	239910	50.081	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.160%			
62) 4-Bromofluorobenzene	11.079	95	85808	53.134	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	83333	53.216	ug/l	100
3) Chloromethane	1.300	50	95413	50.063	ug/l	98
4) Vinyl Chloride	1.373	62	89675	48.568	ug/l	100
5) Bromomethane	1.593	94	31780	57.519	ug/l	98
6) Chloroethane	1.666	64	48225	75.147	ug/l	99
7) Trichlorofluoromethane	1.873	101	122436	52.436	ug/l	99
8) Diethyl Ether	2.129	74	44034	52.000	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.318	101	73285	51.947	ug/l	99
10) Methyl Iodide	2.446	142	96895	52.995	ug/l	98
11) Tert butyl alcohol	2.971	59	74583	245.988	ug/l	99
12) 1,1-Dichloroethene	2.312	96	71069	49.386	ug/l	98
13) Acrolein	2.233	56	85239	272.483	ug/l	99
14) Allyl chloride	2.654	41	130324	50.110	ug/l	98
15) Acrylonitrile	3.056	53	210836	260.443	ug/l	98
16) Acetone	2.379	43	173217	263.641	ug/l	97
17) Carbon Disulfide	2.501	76	182069	46.138	ug/l	100
18) Methyl Acetate	2.696	43	109619	52.872	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	230346	50.309	ug/l	99
20) Methylene Chloride	2.782	84	79188	49.206	ug/l	98
21) trans-1,2-Dichloroethene	3.080	96	70029	49.443	ug/l	92
22) Diisopropyl ether	3.751	45	255981	52.025	ug/l	93
23) Vinyl Acetate	3.715	43	1041556	259.654	ug/l	99
24) 1,1-Dichloroethane	3.599	63	139363	50.620	ug/l	99
25) 2-Butanone	4.550	43	282901	265.167	ug/l	97
26) 2,2-Dichloropropane	4.458	77	108637	49.758	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	85121	50.033	ug/l	99
28) Bromochloromethane	4.885	49	66328	50.132	ug/l	100
29) Tetrahydrofuran	4.989	42	183098	258.456	ug/l	99
30) Chloroform	5.080	83	135270	50.664	ug/l	97
31) Cyclohexane	5.458	56	123125	48.511	ug/l	98
32) 1,1,1-Trichloroethane	5.367	97	114641	50.622	ug/l	99
36) 1,1-Dichloropropene	5.684	75	92569	50.648	ug/l	100
37) Ethyl Acetate	4.702	43	107447	52.854	ug/l	98
38) Carbon Tetrachloride	5.665	117	96084	53.647	ug/l	97
39) Methylcyclohexane	7.372	83	126678	53.611	ug/l	98
40) Benzene	6.025	78	295171	51.720	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.909	41	62502	57.439	ug/l		99
42) 1,2-Dichloroethane	6.080	62	99367	54.630	ug/l		99
43) Isopropyl Acetate	6.330	43	178056	54.238	ug/l		99
44) Trichloroethene	7.116	130	68729	52.686	ug/l		99
45) 1,2-Dichloropropane	7.421	63	73954	52.086	ug/l		98
46) Dibromomethane	7.574	93	52099	52.910	ug/l		99
47) Bromodichloromethane	7.817	83	104667	54.897	ug/l		94
48) Methyl methacrylate	7.683	41	84452	54.559	ug/l		98
49) 1,4-Dioxane	7.659	88	35851	1079.521	ug/l		98
51) 4-Methyl-2-Pentanone	8.567	43	573871	287.542	ug/l		99
52) Toluene	8.714	92	177622	52.259	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	102427	53.088	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	115454	53.670	ug/l		97
55) 1,1,2-Trichloroethane	9.146	97	69992	53.569	ug/l		99
56) Ethyl methacrylate	9.110	69	113350	53.714	ug/l		96
57) 1,3-Dichloropropane	9.305	76	122833	53.730	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	281369	271.549	ug/l		100
59) 2-Hexanone	9.427	43	419224	291.536	ug/l		97
60) Dibromochloromethane	9.518	129	76923	55.049	ug/l		100
61) 1,2-Dibromoethane	9.604	107	70254	53.050	ug/l		99
64) Tetrachloroethene	9.268	164	56785	52.606	ug/l		96
65) Chlorobenzene	10.073	112	191305	52.037	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.158	131	63533	53.691	ug/l		99
67) Ethyl Benzene	10.189	91	341272	52.604	ug/l		98
68) m/p-Xylenes	10.299	106	253071	105.747	ug/l		99
69) o-Xylene	10.640	106	125488	52.257	ug/l		100
70) Styrene	10.652	104	212892	55.028	ug/l		99
71) Bromoform	10.799	173	50298	56.956	ug/l	#	98
73) Isopropylbenzene	10.957	105	323452	50.759	ug/l		100
74) N-amyl acetate	10.841	43	151995	52.711	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	108280	49.450	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	116411	66.344	ug/l		83
77) Bromobenzene	11.195	156	74813	51.785	ug/l		97
78) n-propylbenzene	11.299	91	383227	52.104	ug/l		100
79) 2-Chlorotoluene	11.359	91	227346	50.293	ug/l		99
80) 1,3,5-Trimethylbenzene	11.445	105	269593	52.135	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	34484	50.555	ug/l		95
82) 4-Chlorotoluene	11.451	91	260241	52.037	ug/l		100
83) tert-Butylbenzene	11.713	119	271023	51.808	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	273444	53.576	ug/l		98
85) sec-Butylbenzene	11.890	105	345172	53.285	ug/l		99
86) p-Isopropyltoluene	12.006	119	281168	53.974	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	138952	52.302	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	137282	51.107	ug/l		98
89) n-Butylbenzene	12.329	91	259957	56.406	ug/l		100
90) Hexachloroethane	12.536	117	50444	51.715	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	134948	51.683	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	21467	53.715	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	83444	52.814	ug/l		100
94) Hexachlorobutadiene	13.725	225	33686	53.707	ug/l		100
95) Naphthalene	13.774	128	298494	52.263	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	84247	52.918	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

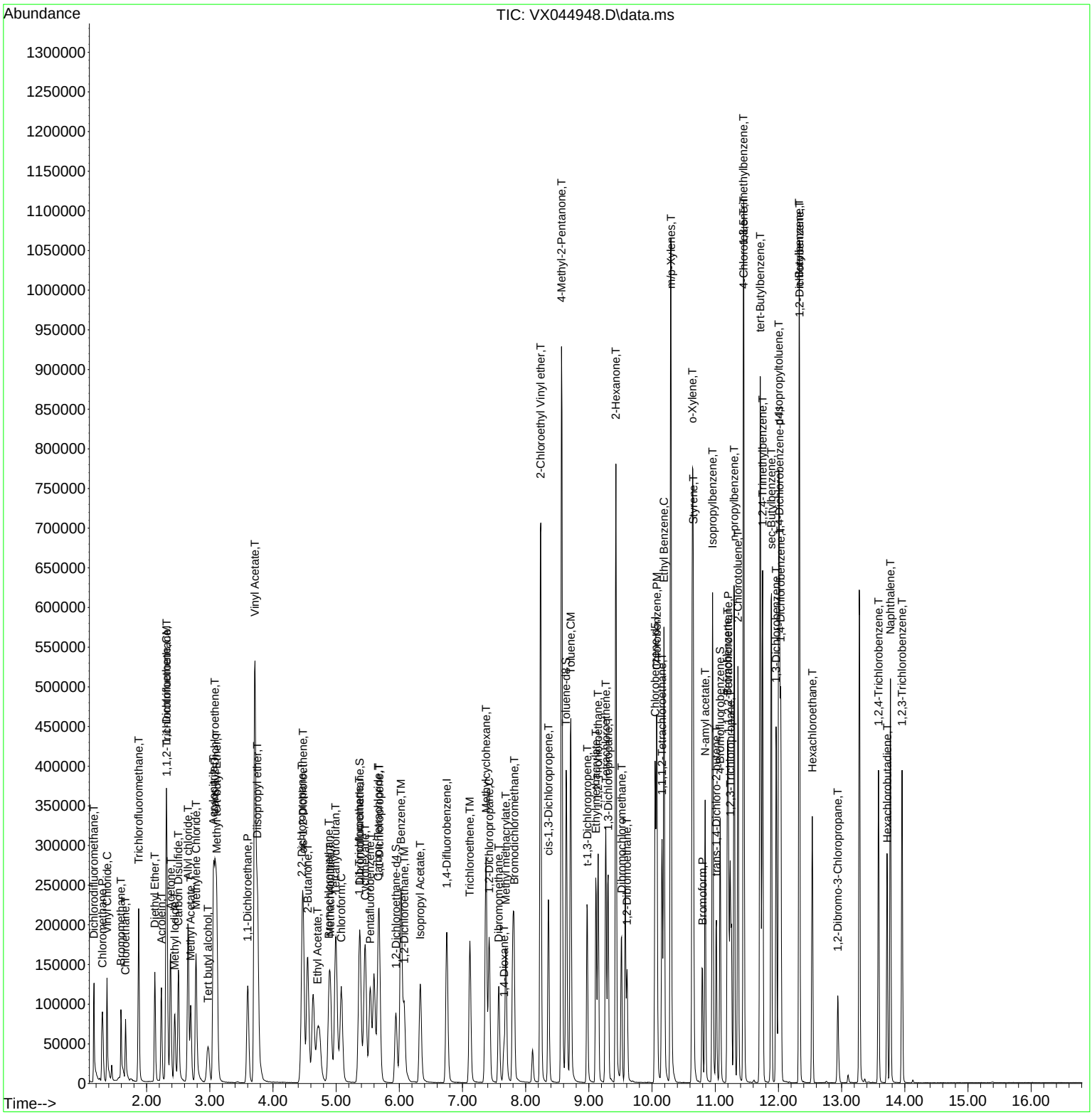
(#) = qualifier out of range (m) = manual integration (+) = signals summed

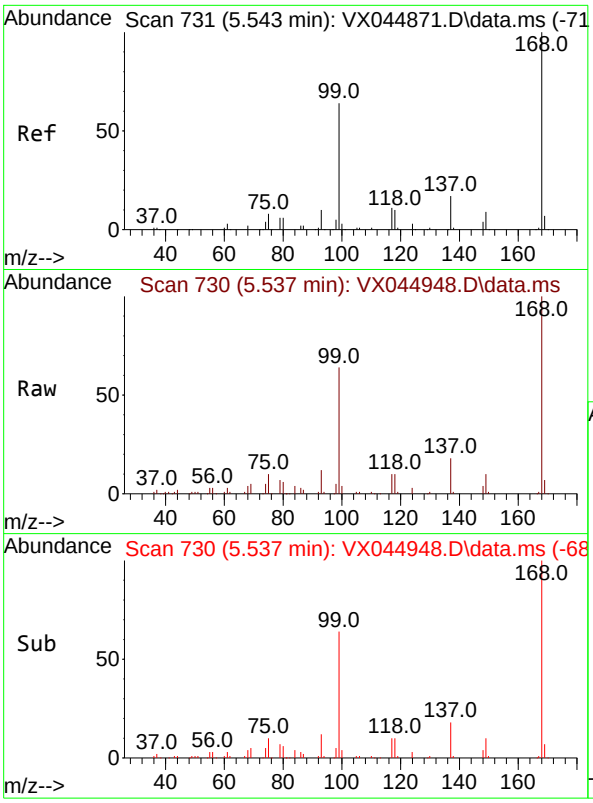
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044948.D
Acq On : 14 Feb 2025 10:04
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Feb 14 22:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



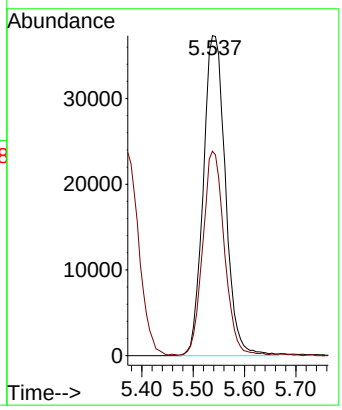


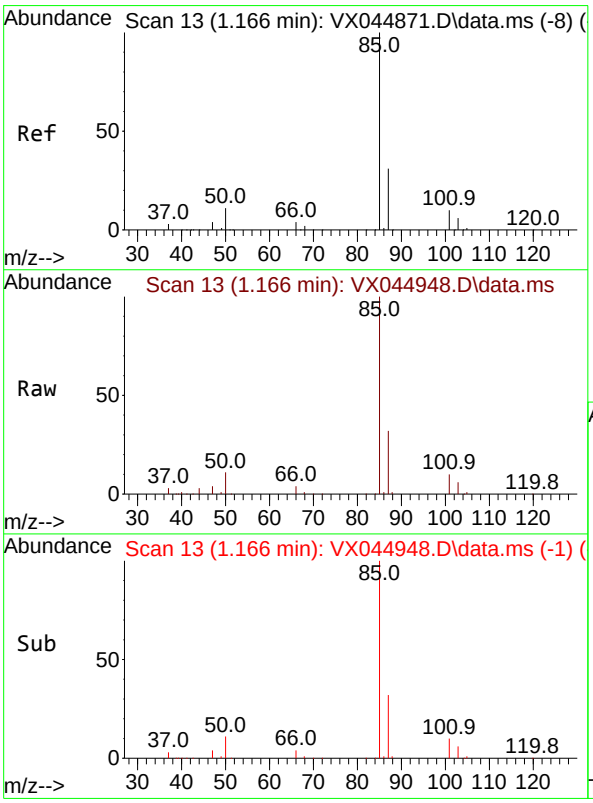
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 111649

Ion	Ratio	Lower	Upper
168	100		
99	63.7	51.2	76.8

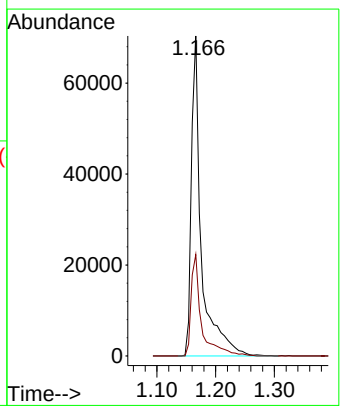


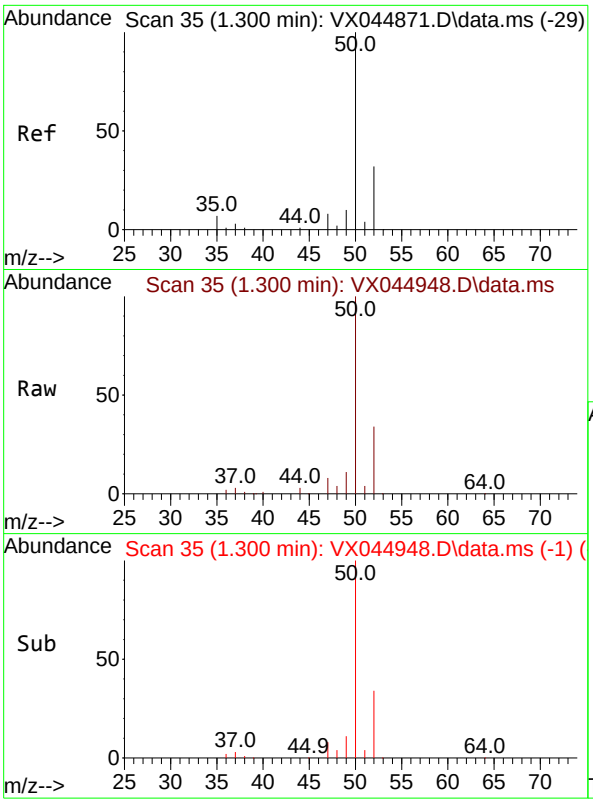


#2
Dichlorodifluoromethane
Concen: 53.216 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 85 Resp: 83333

Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.8	47.3



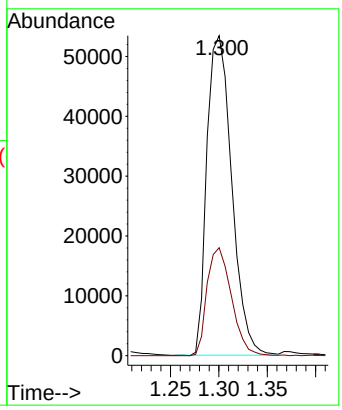


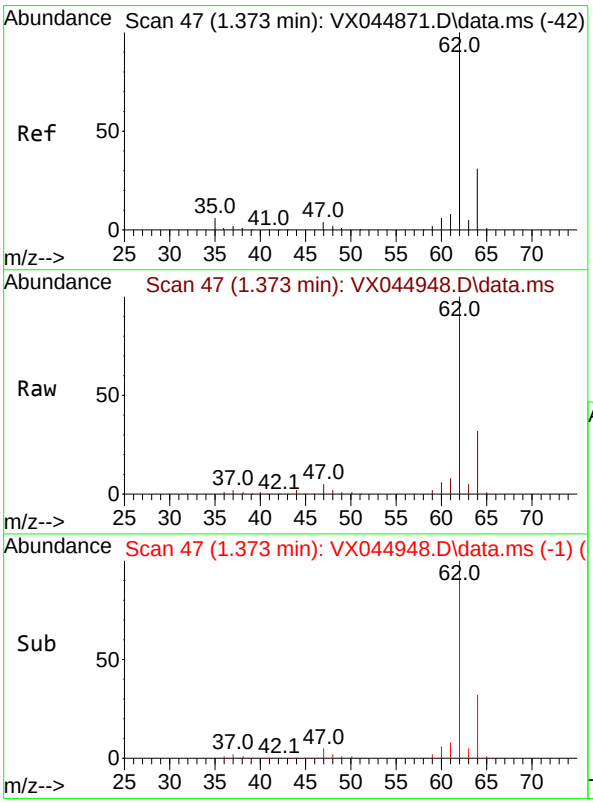
#3
Chloromethane
Concen: 50.063 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 95413

Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.9	38.9

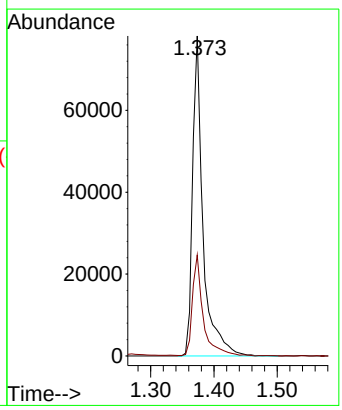


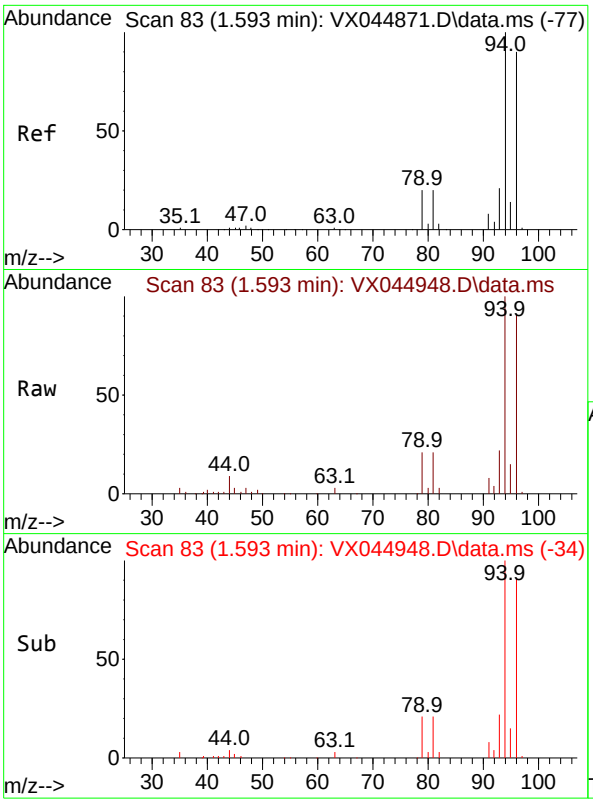


#4
Vinyl Chloride
Concen: 48.568 ug/l
RT: 1.373 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 62 Resp: 89675

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.4	38.0



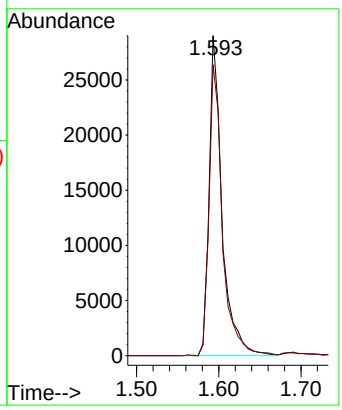


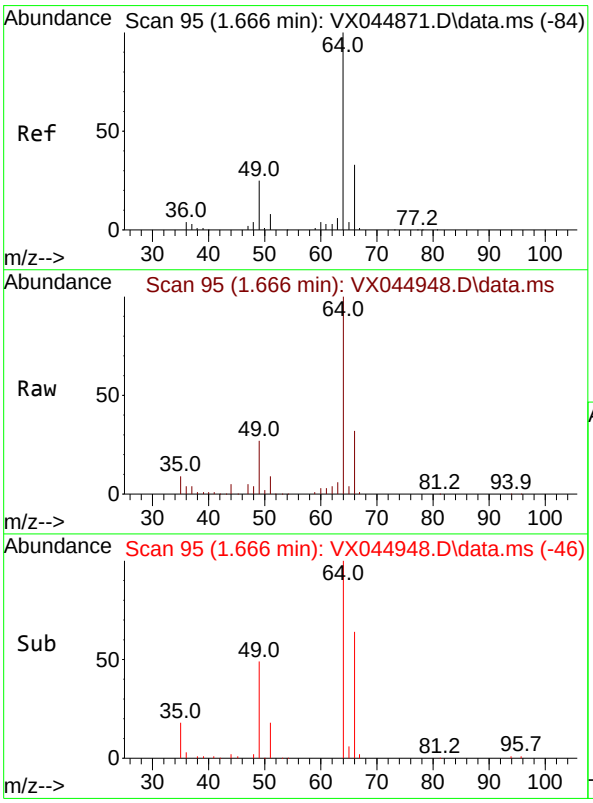
#5
Bromomethane
Concen: 57.519 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 31780

Ion	Ratio	Lower	Upper
94	100		
96	91.0	71.6	107.4

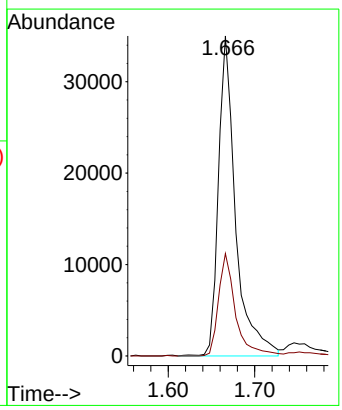


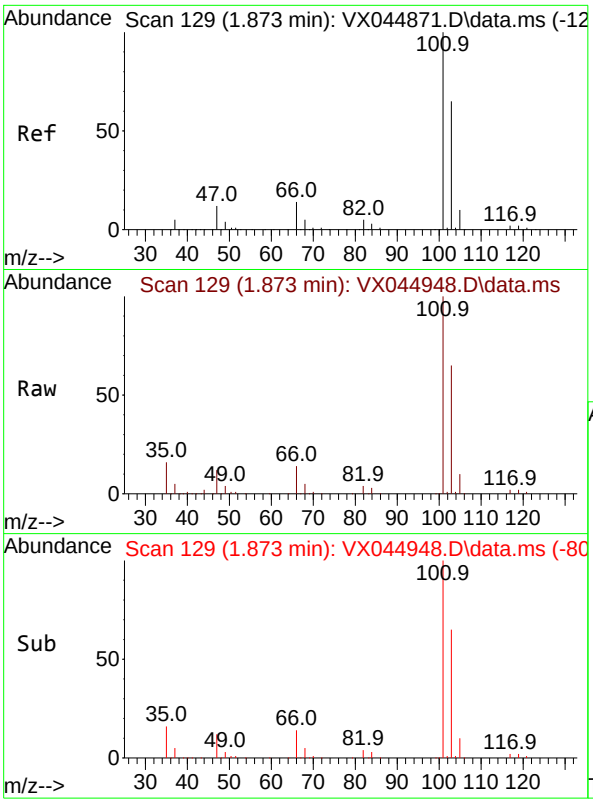


#6
Chloroethane
Concen: 75.147 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 64 Resp: 48225

Ion	Ratio	Lower	Upper
64	100		
66	32.0	25.9	38.9



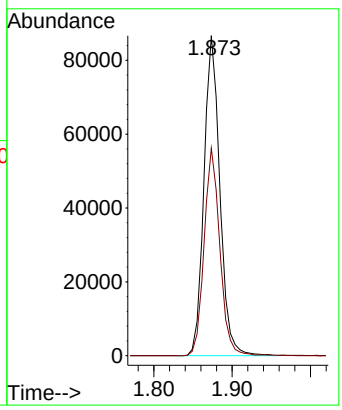


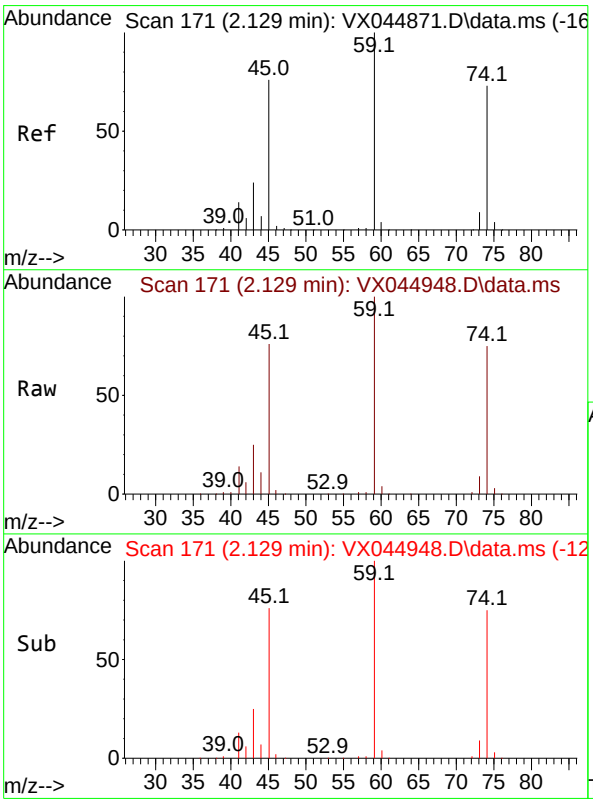
#7
Trichlorofluoromethane
Concen: 52.436 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 122436

Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.4	78.6

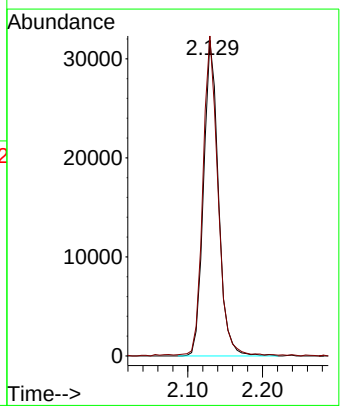


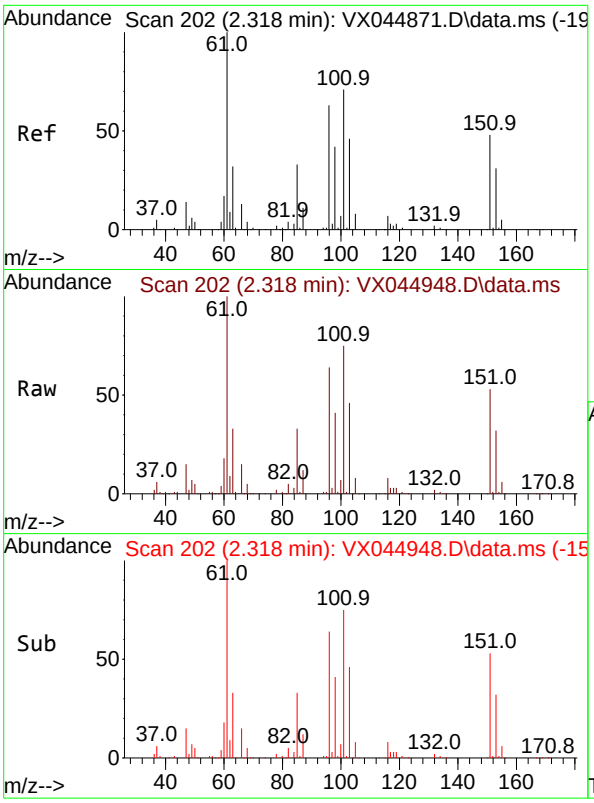


#8
Diethyl Ether
Concen: 52.000 ug/l
RT: 2.129 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 74 Resp: 44034

Ion	Ratio	Lower	Upper
74	100		
45	103.4	51.1	153.4



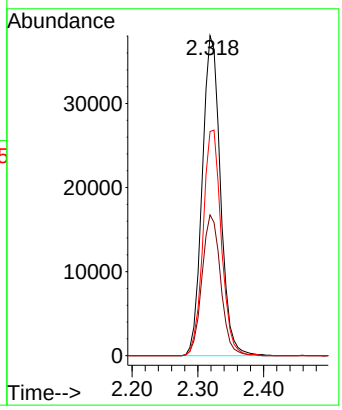


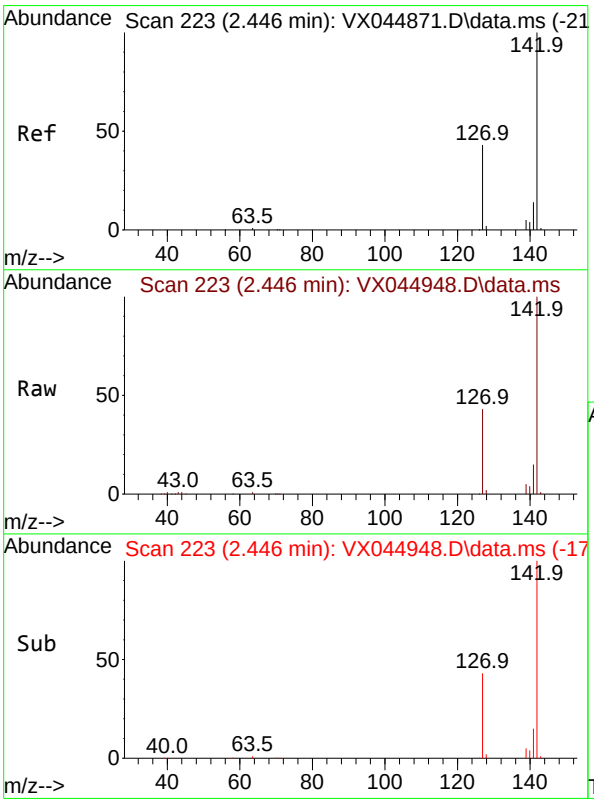
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.947 ug/l
RT: 2.318 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 73285

Ion	Ratio	Lower	Upper
101	100		
85	45.1	35.7	53.5
151	70.7	56.0	84.0

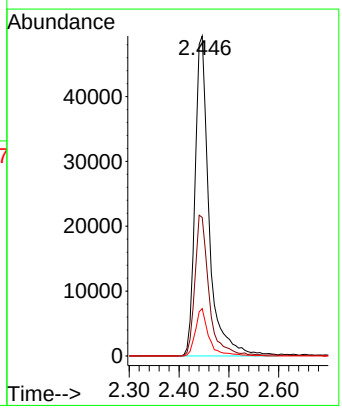


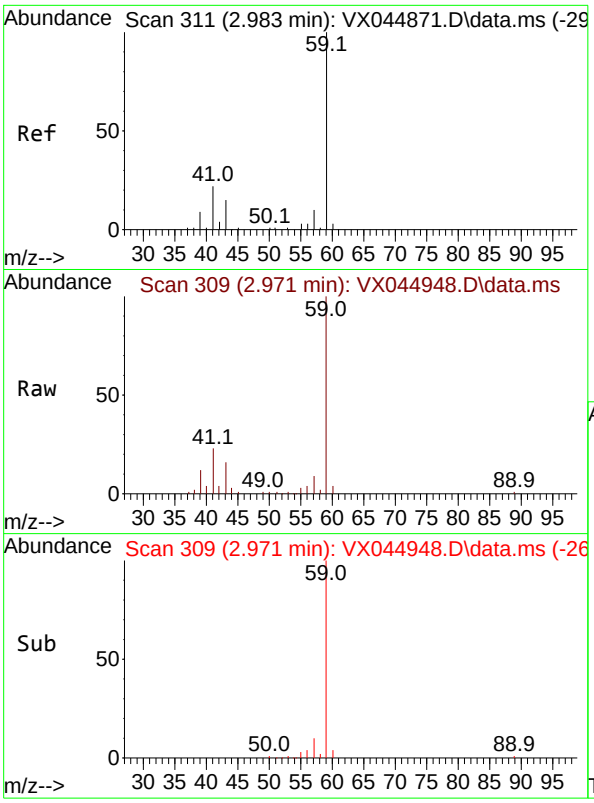


#10
Methyl Iodide
Concen: 52.995 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:142 Resp: 96895

Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.3	51.5
141	14.1	11.4	17.2



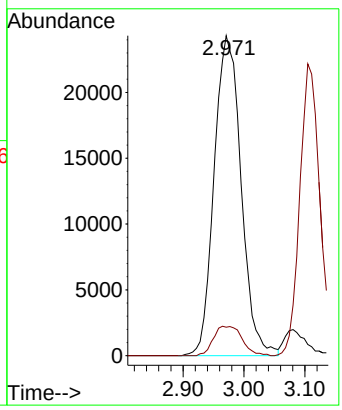


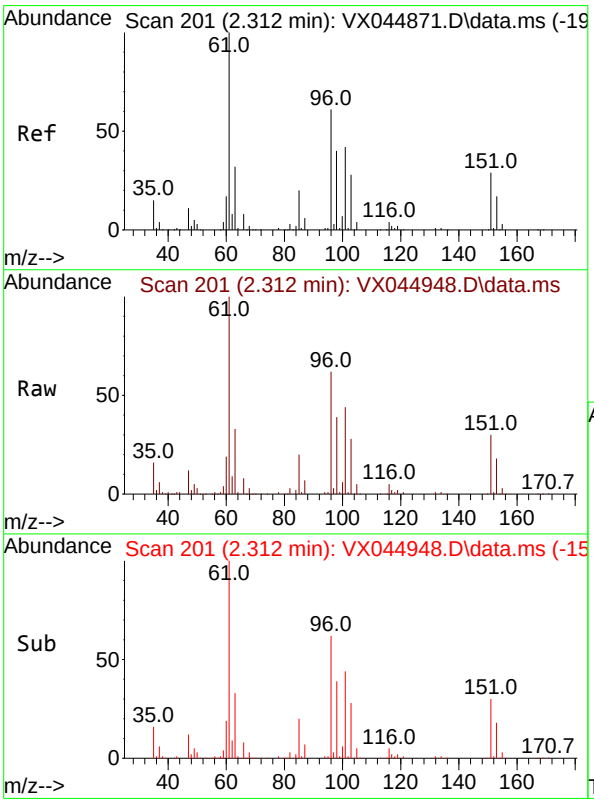
#11
Tert butyl alcohol
Concen: 245.988 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 74583

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1

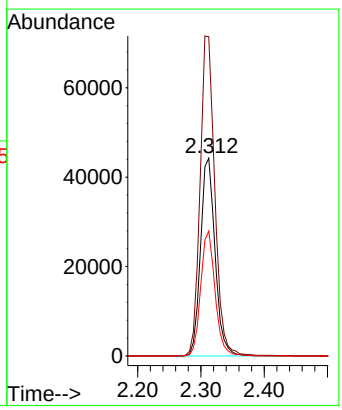


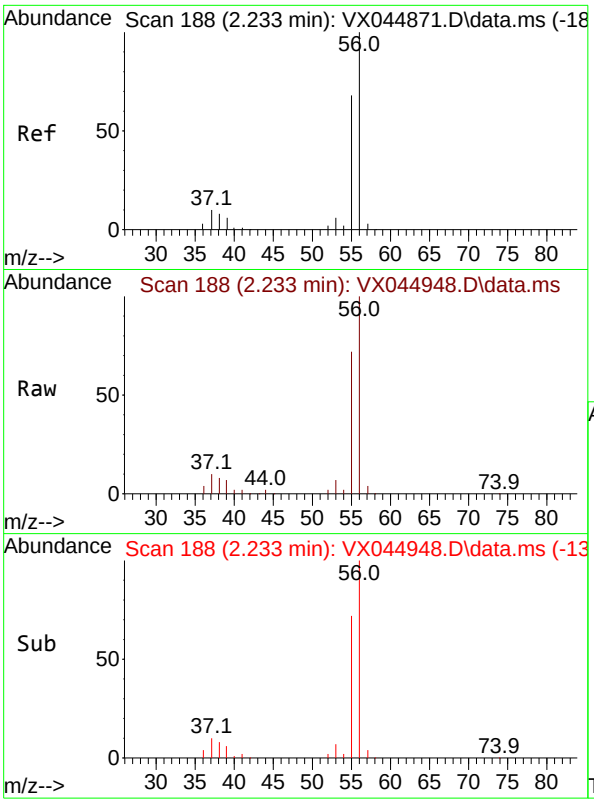


#12
1,1-Dichloroethene
Concen: 49.386 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 96 Resp: 71069

Ion	Ratio	Lower	Upper
96	100		
61	161.4	130.2	195.4
98	63.1	52.2	78.4



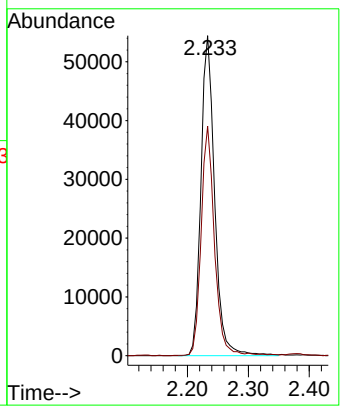


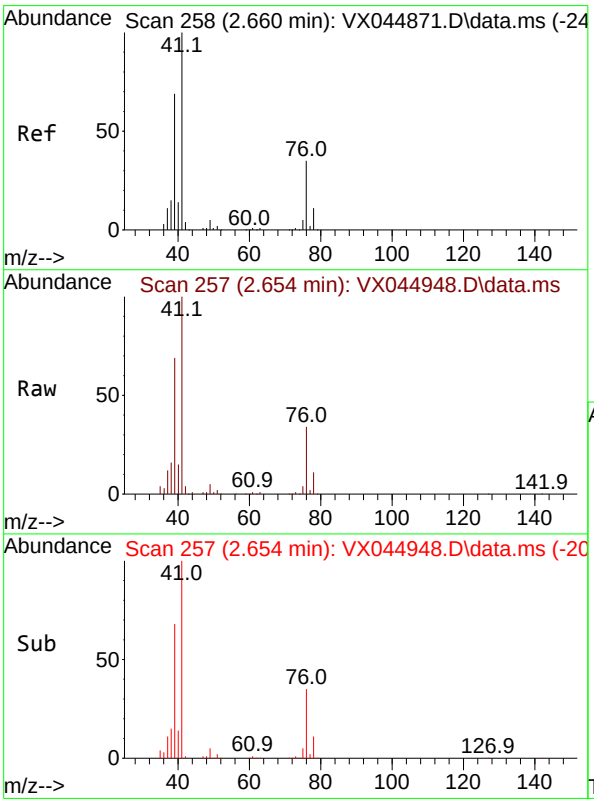
#13
Acrolein
Concen: 272.483 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 85239

Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.7	83.5

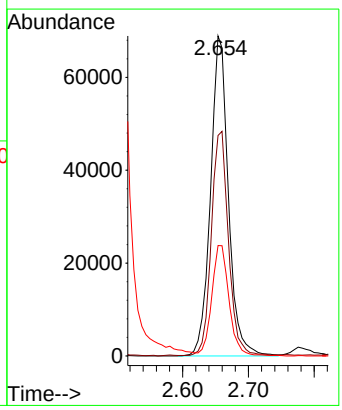


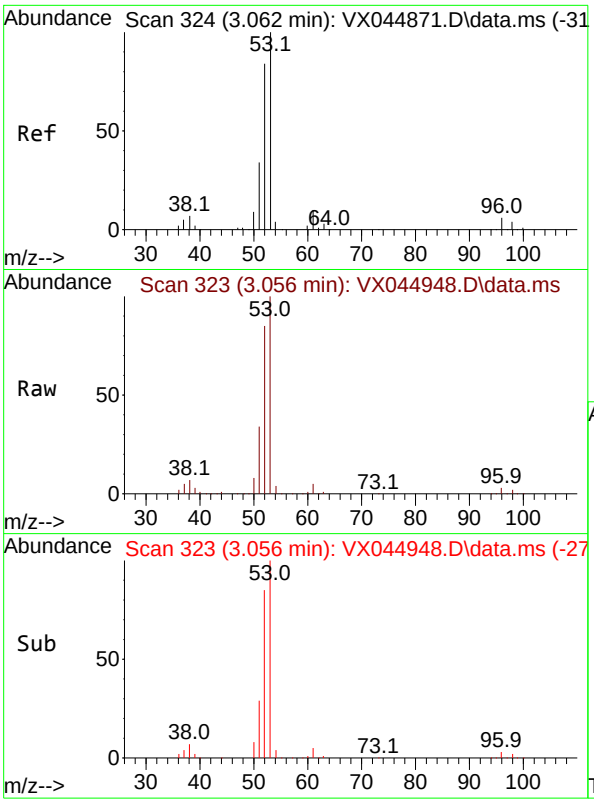


#14
Allyl chloride
Concen: 50.110 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 41 Resp: 130324

Ion	Ratio	Lower	Upper
41	100		
39	67.0	51.4	77.2
76	33.4	27.0	40.4



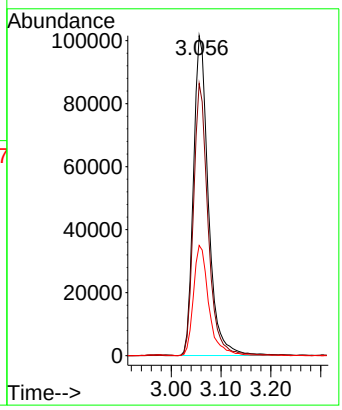


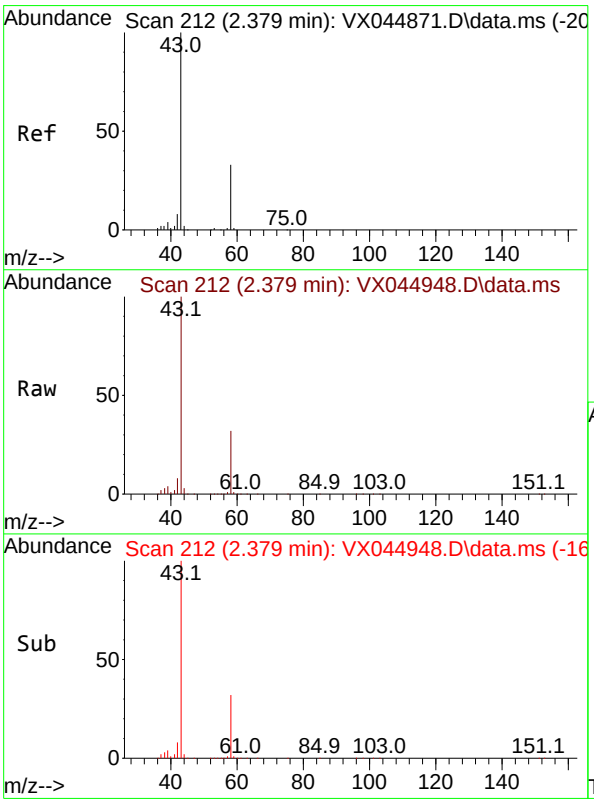
#15
Acrylonitrile
Concen: 260.443 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 210836

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.0	97.6
51	35.8	28.0	42.0

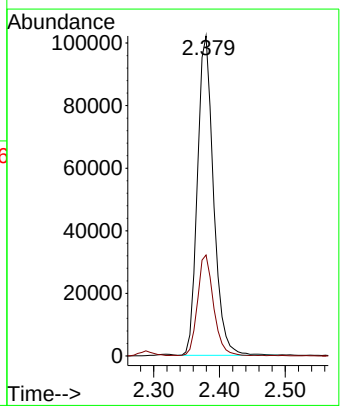


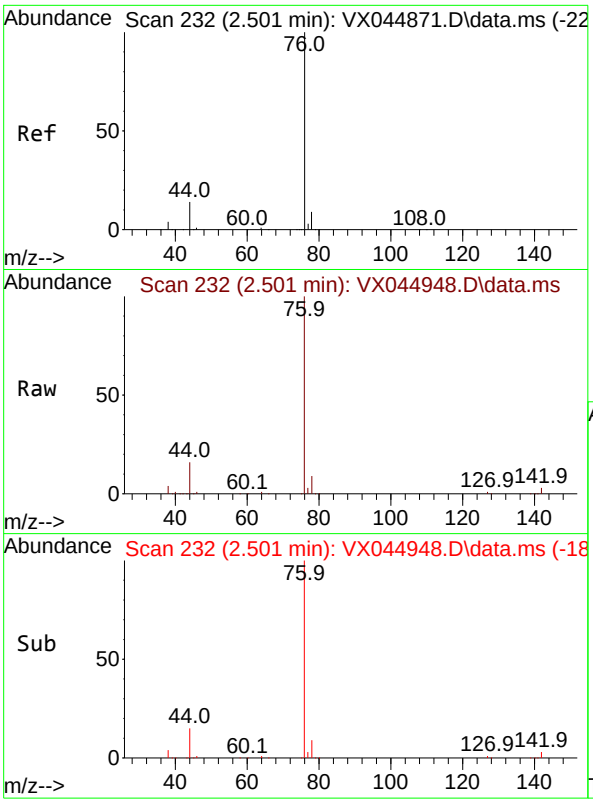


#16
Acetone
Concen: 263.641 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 173217

Ion	Ratio	Lower	Upper
43	100		
58	31.5	26.5	39.7



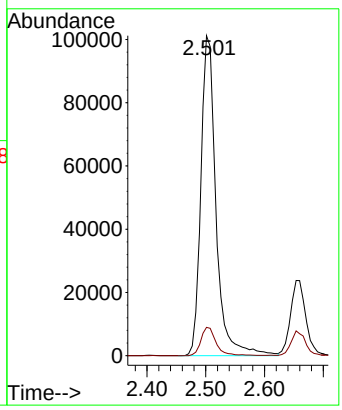


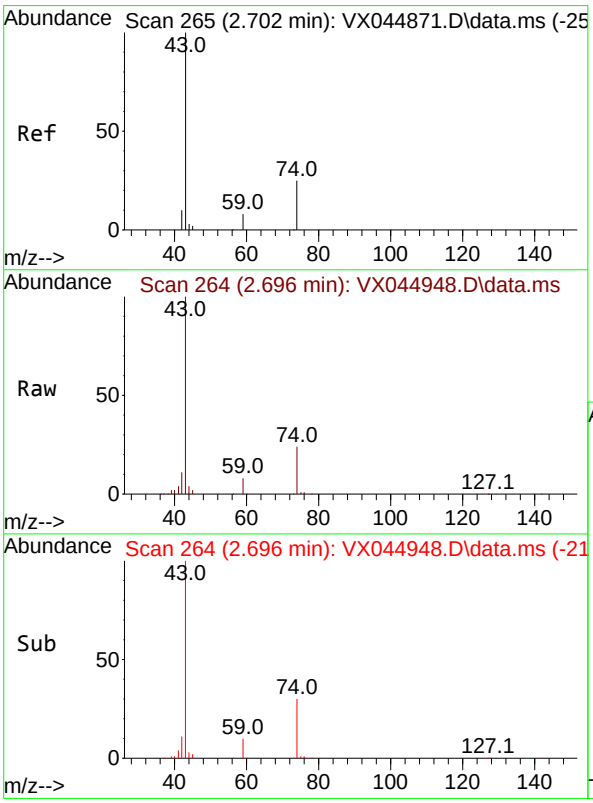
#17
Carbon Disulfide
Concen: 46.138 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 182069

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4

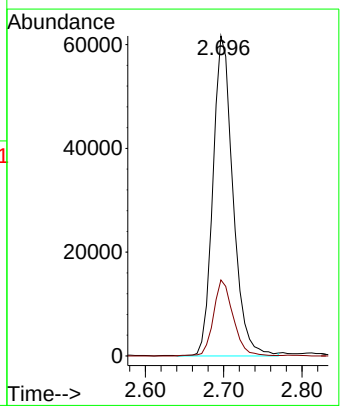


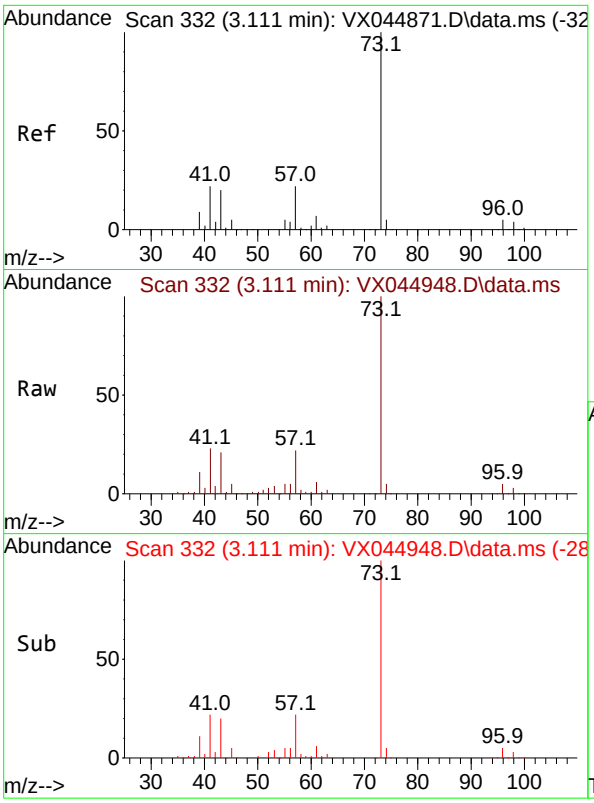


#18
Methyl Acetate
Concen: 52.872 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 109619

Ion	Ratio	Lower	Upper
43	100		
74	23.5	18.9	28.3



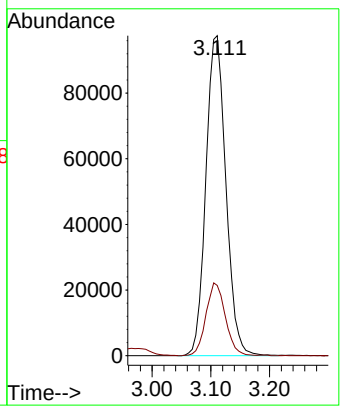


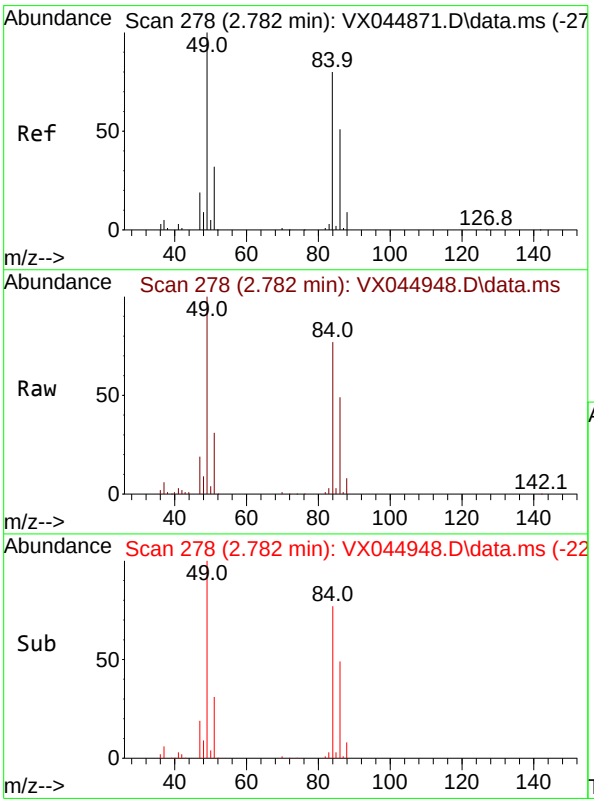
#19
Methyl tert-butyl Ether
Concen: 50.309 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 230346

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.9	26.9

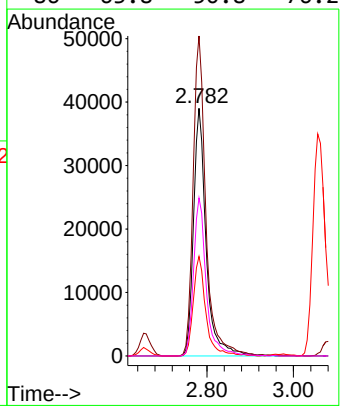


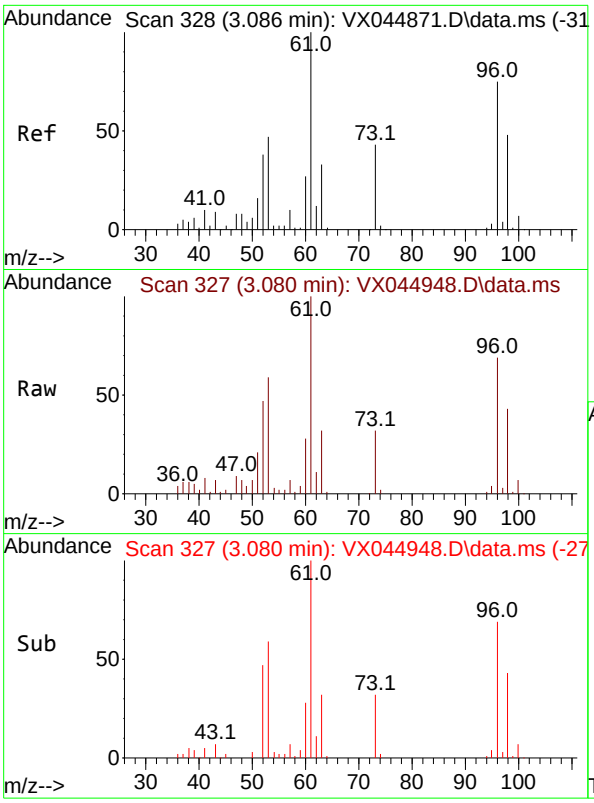


#20
Methylene Chloride
Concen: 49.206 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 84 Resp: 79188

Ion	Ratio	Lower	Upper
84	100		
49	129.2	100.1	150.1
51	40.2	31.7	47.5
86	63.8	50.8	76.2



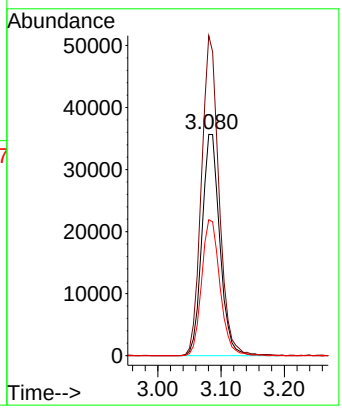


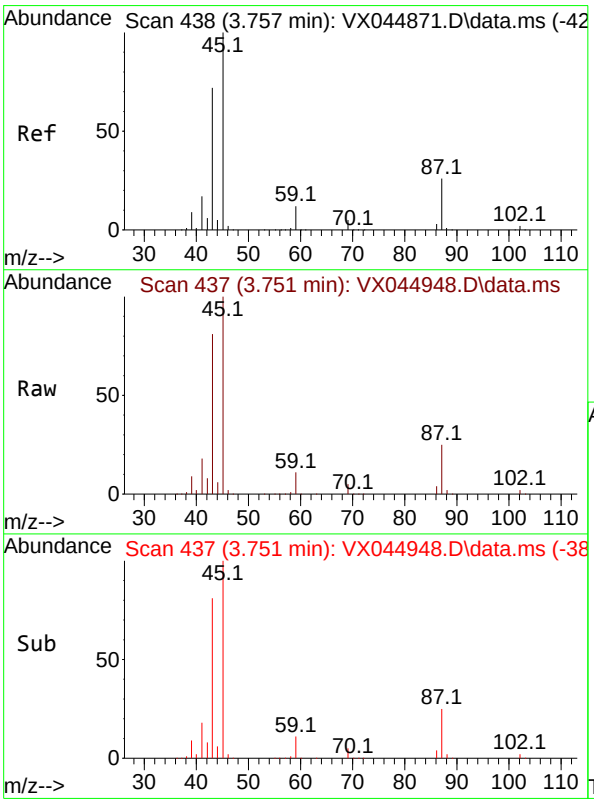
#21
trans-1,2-Dichloroethene
Concen: 49.443 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 70029

Ion	Ratio	Lower	Upper
96	100		
61	144.6	106.0	159.0
98	61.5	50.6	76.0

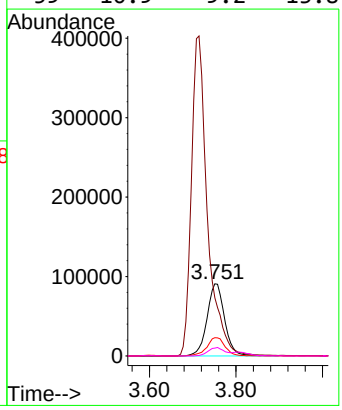


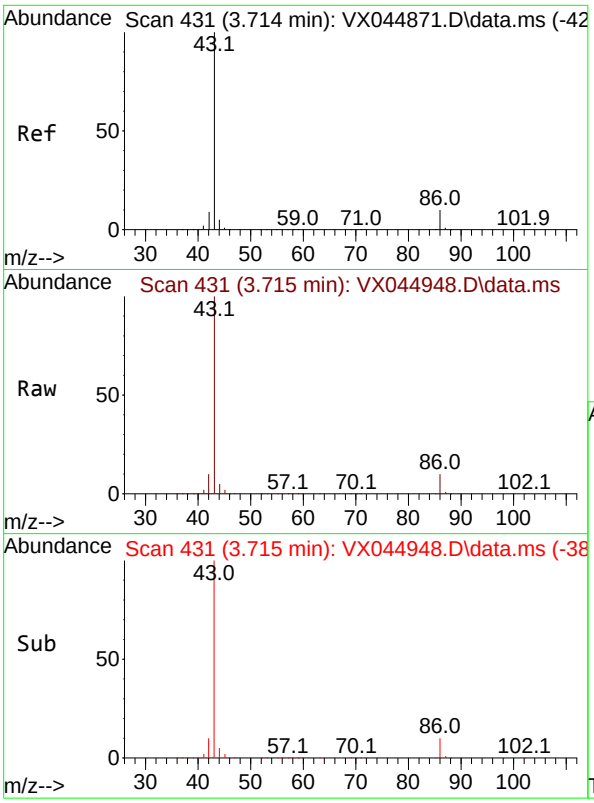


#22
Diisopropyl ether
Concen: 52.025 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 45 Resp: 255981

Ion	Ratio	Lower	Upper
45	100		
43	80.5	58.0	87.0
87	25.2	20.7	31.1
59	10.9	9.2	13.8



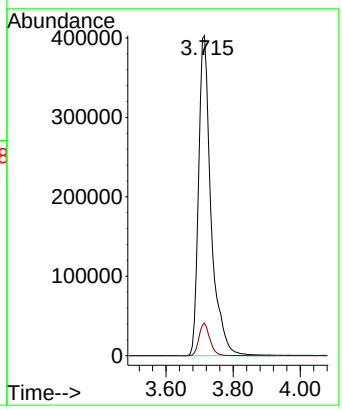


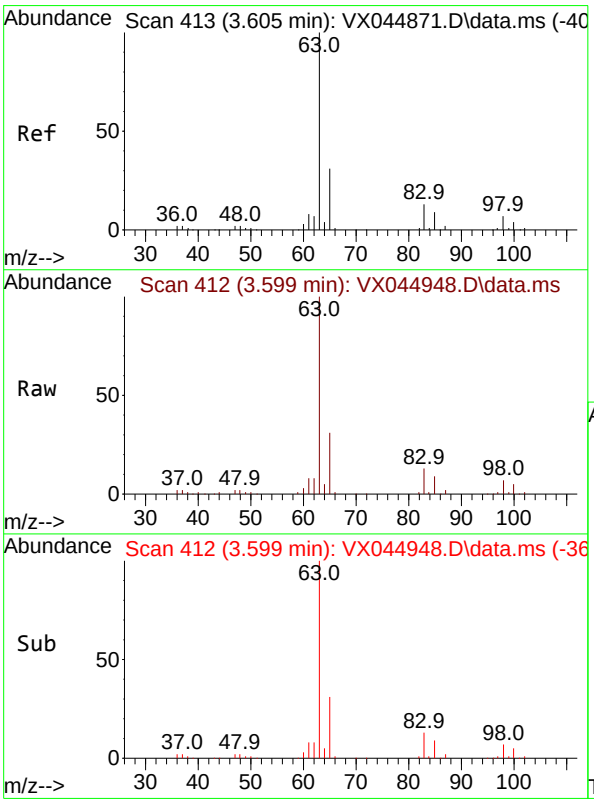
#23
Vinyl Acetate
Concen: 259.654 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1041556

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.3	12.5

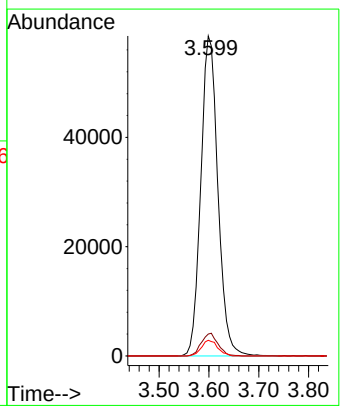


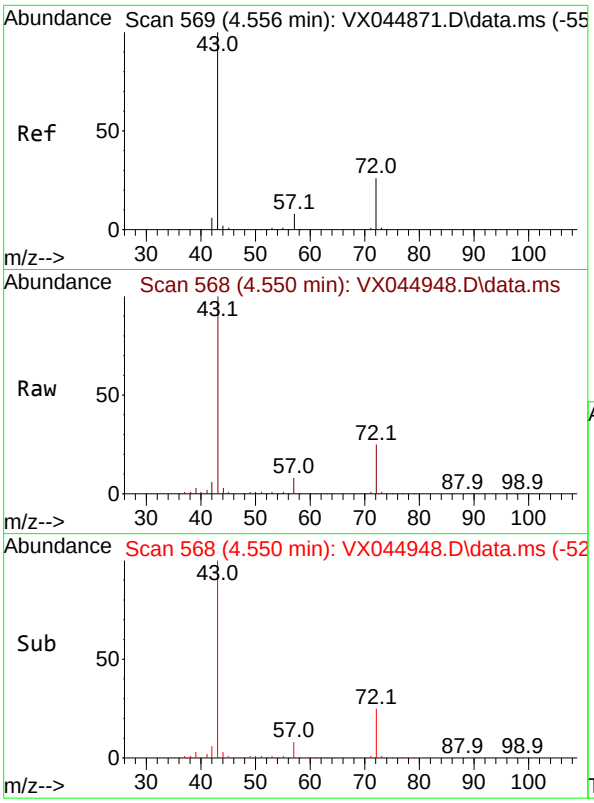


#24
1,1-Dichloroethane
Concen: 50.620 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 63 Resp: 139363

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.9
100	4.9	2.1	6.5



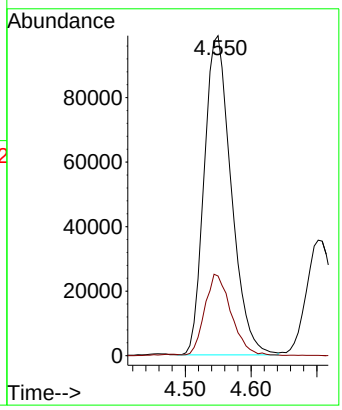


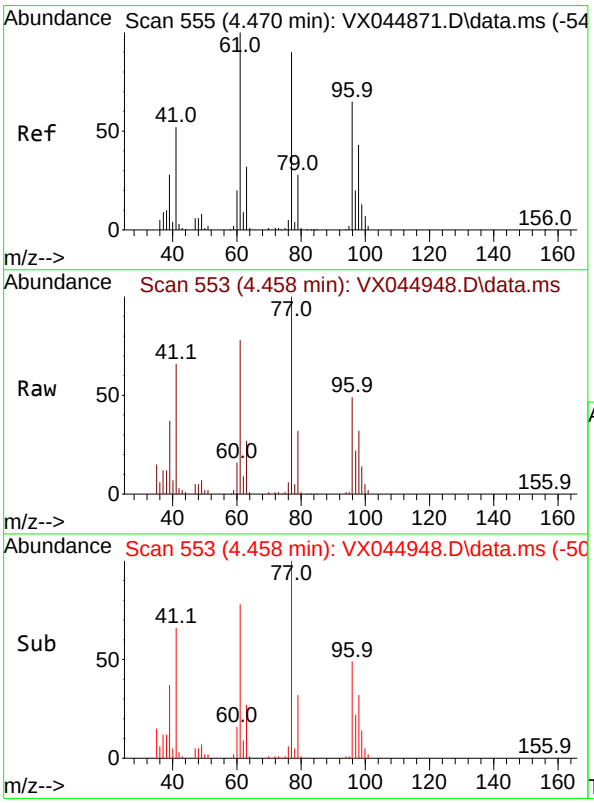
#25
2-Butanone
Concen: 265.167 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 282901

Ion	Ratio	Lower	Upper
43	100		
72	24.8	21.2	31.8

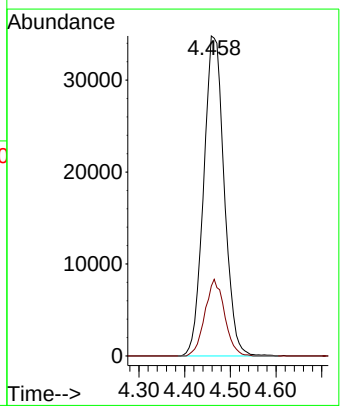


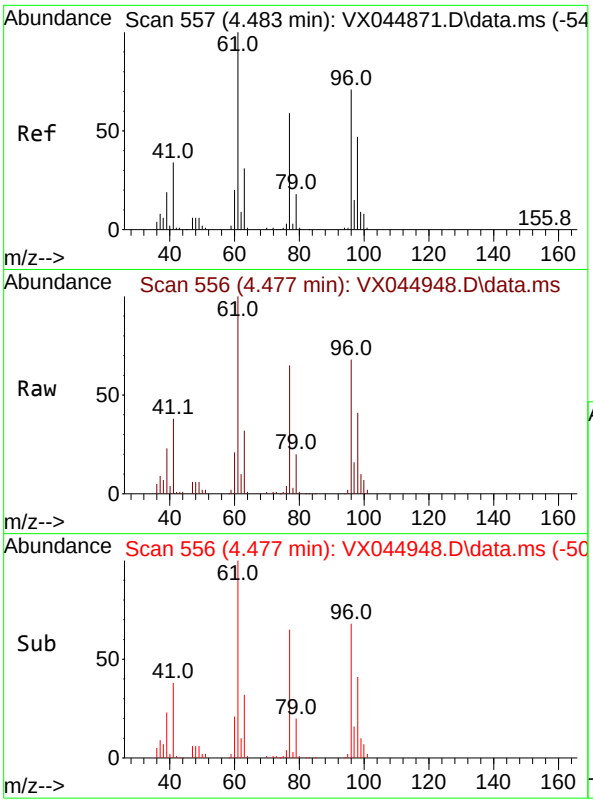


#26
2,2-Dichloropropane
Concen: 49.758 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.012 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 77 Resp: 108637

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.8	35.3



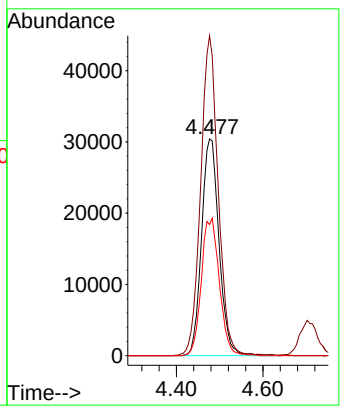


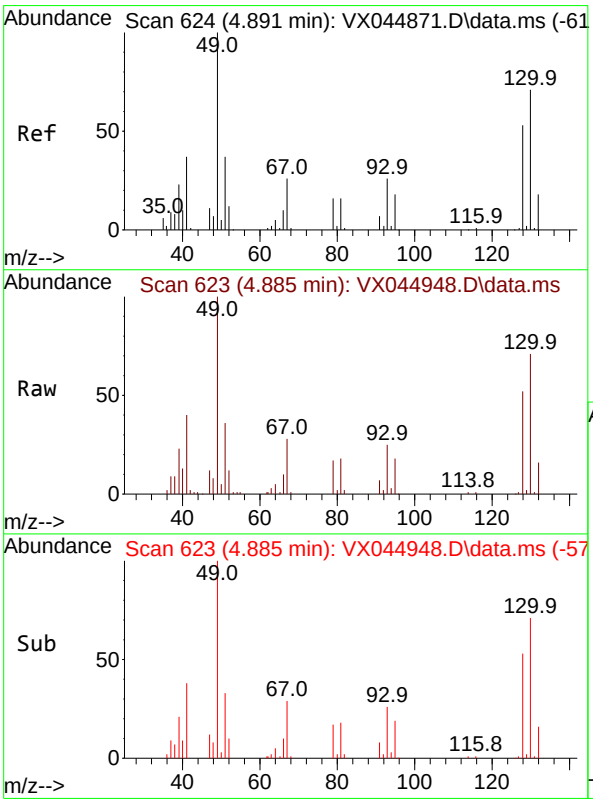
#27
cis-1,2-Dichloroethene
Concen: 50.033 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 85121

Ion	Ratio	Lower	Upper
96	100		
61	148.2	0.0	294.0
98	65.4	0.0	131.2

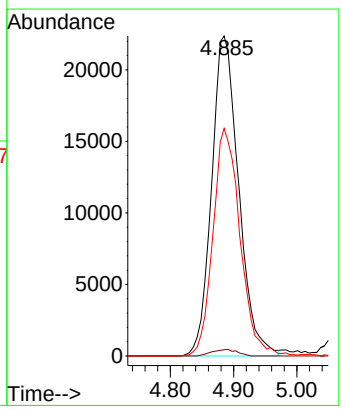


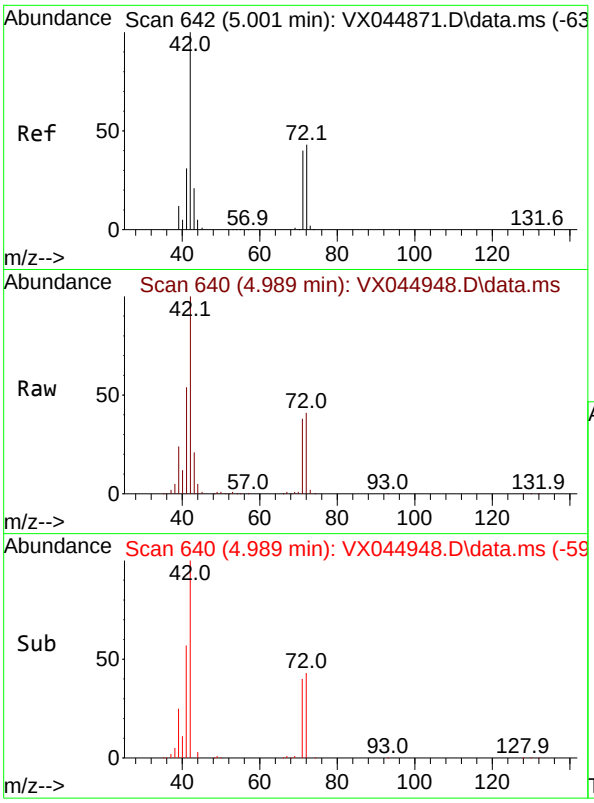


#28
Bromochloromethane
Concen: 50.132 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 49 Resp: 66328

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.6
130	71.2	56.7	85.1



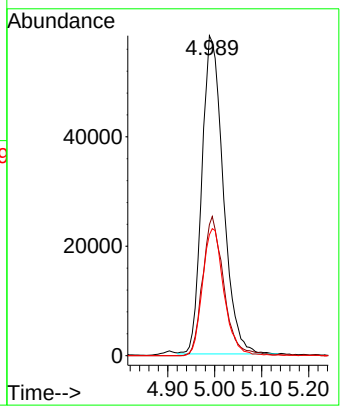


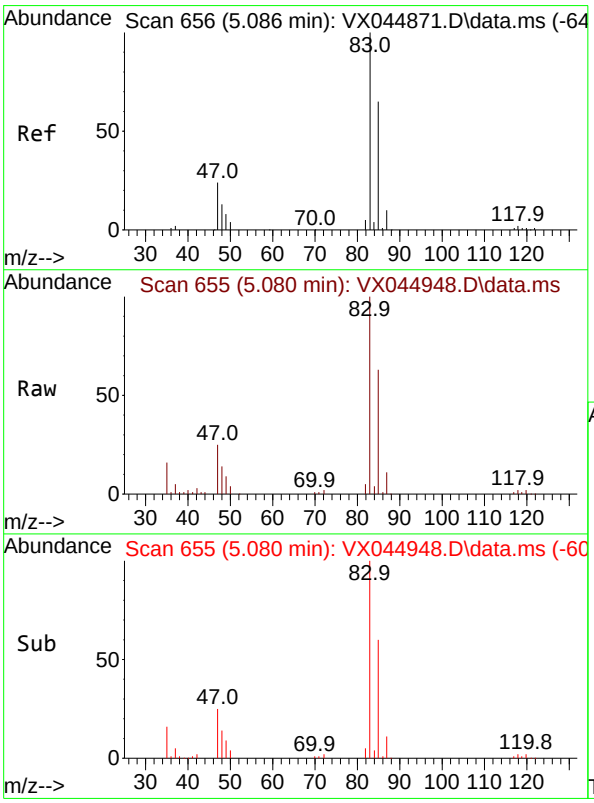
#29
Tetrahydrofuran
Concen: 258.456 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.012 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 183098

Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.0	52.4
71	40.1	32.6	48.8

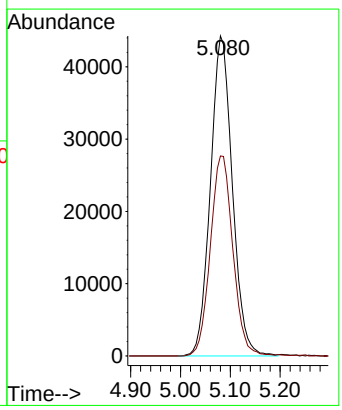


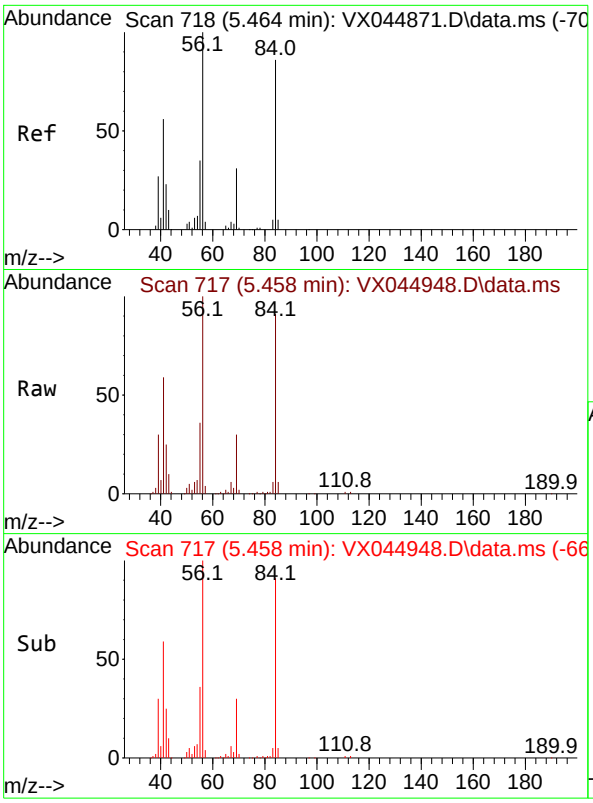


#30
Chloroform
Concen: 50.664 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 83 Resp: 135270

Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.1	78.1



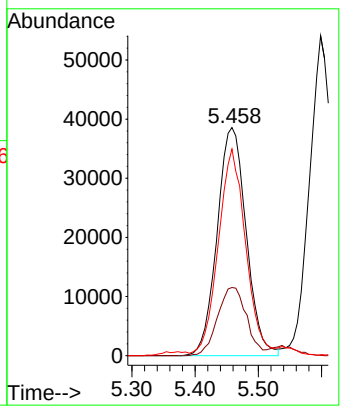


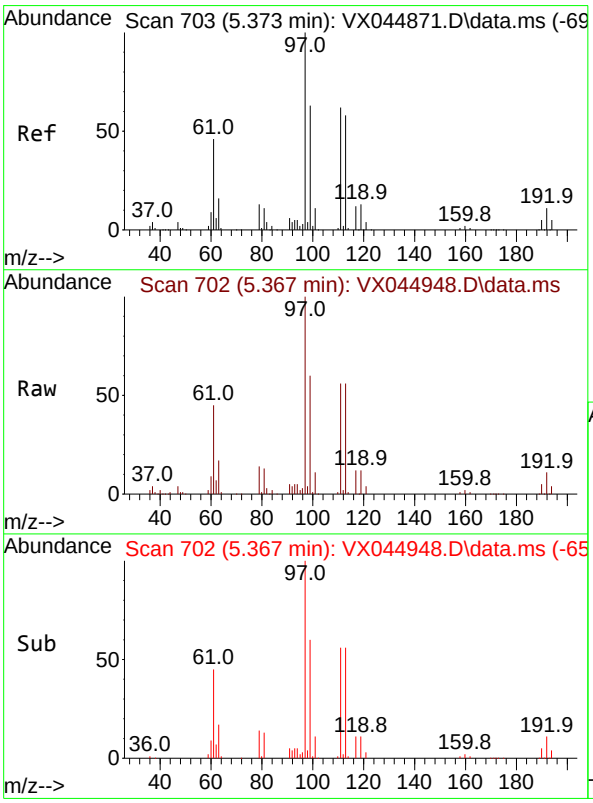
#31
Cyclohexane
Concen: 48.511 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 123125

Ion	Ratio	Lower	Upper
56	100		
69	29.9	24.4	36.6
84	88.8	69.0	103.6

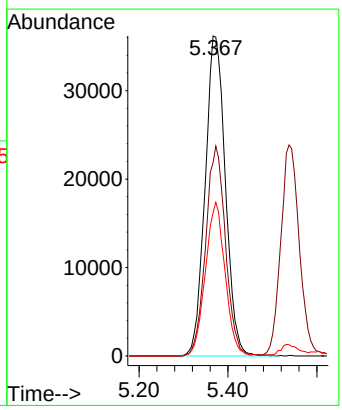


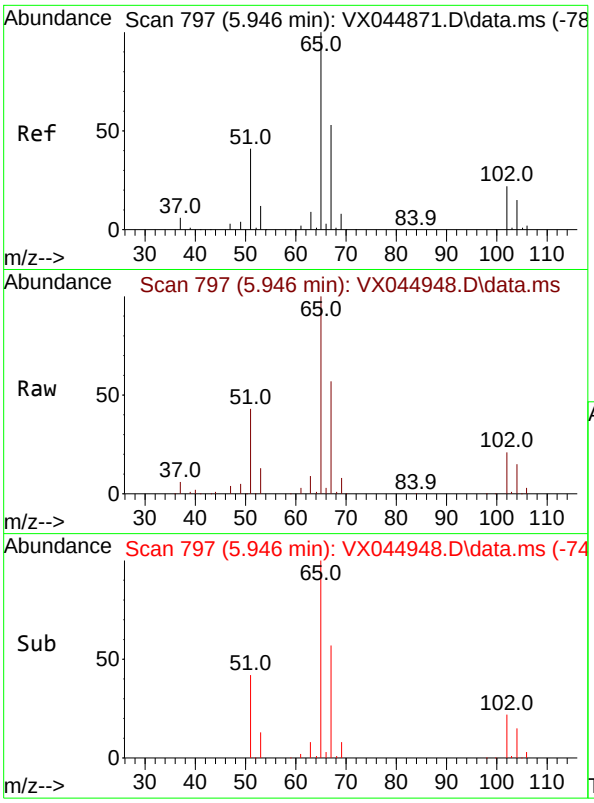


#32
1,1,1-Trichloroethane
Concen: 50.622 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 97 Resp: 114641

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.0	76.6
61	46.8	36.6	55.0



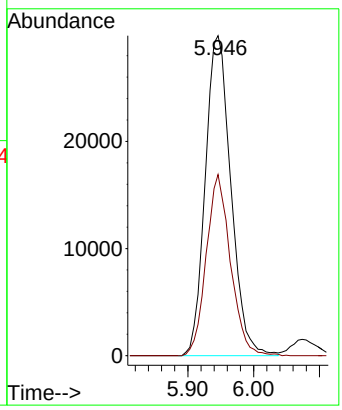


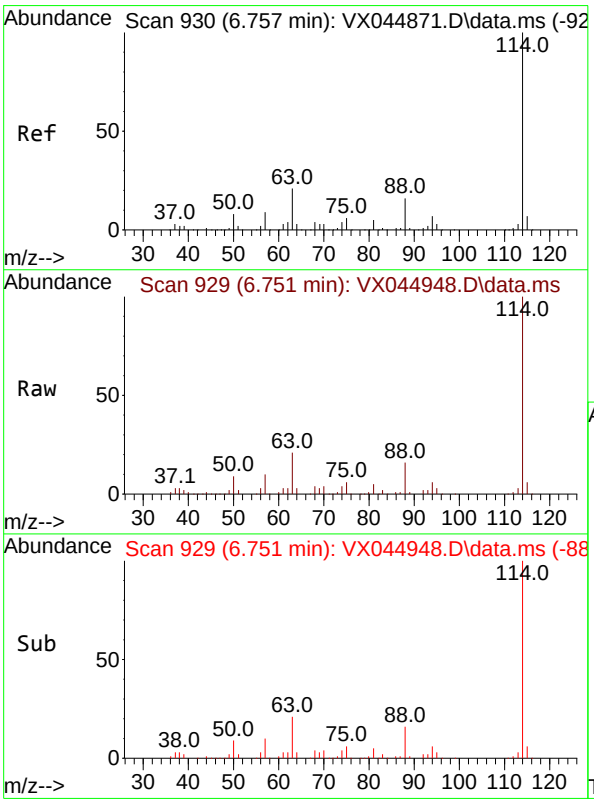
#33
1,2-Dichloroethane-d4
Concen: 49.577 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 81025

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	108.2

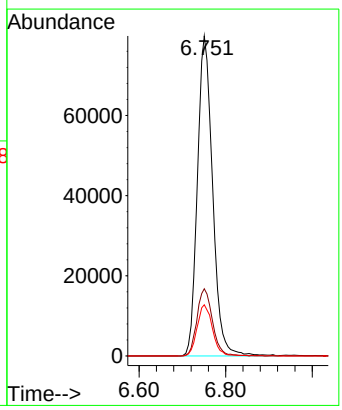


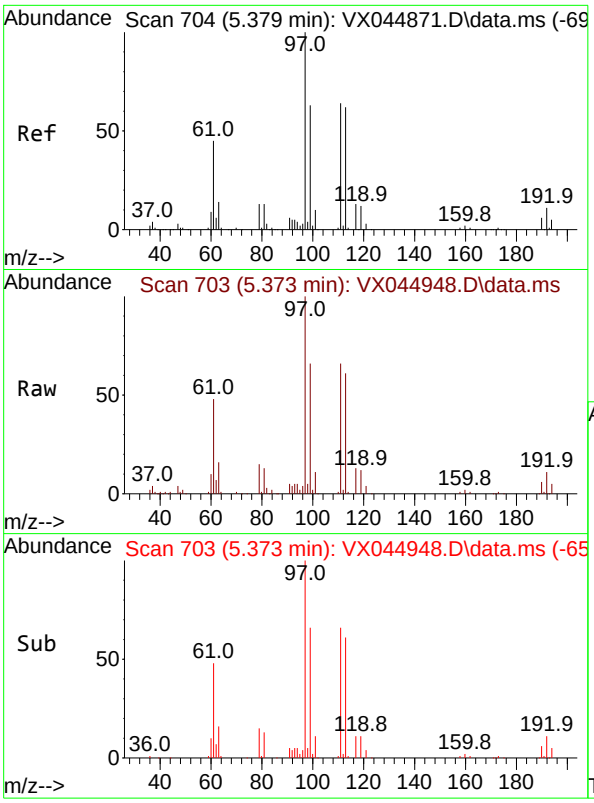


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:114 Resp: 194847

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.4
88	16.0	0.0	31.4



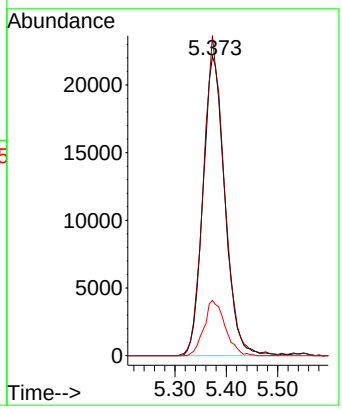


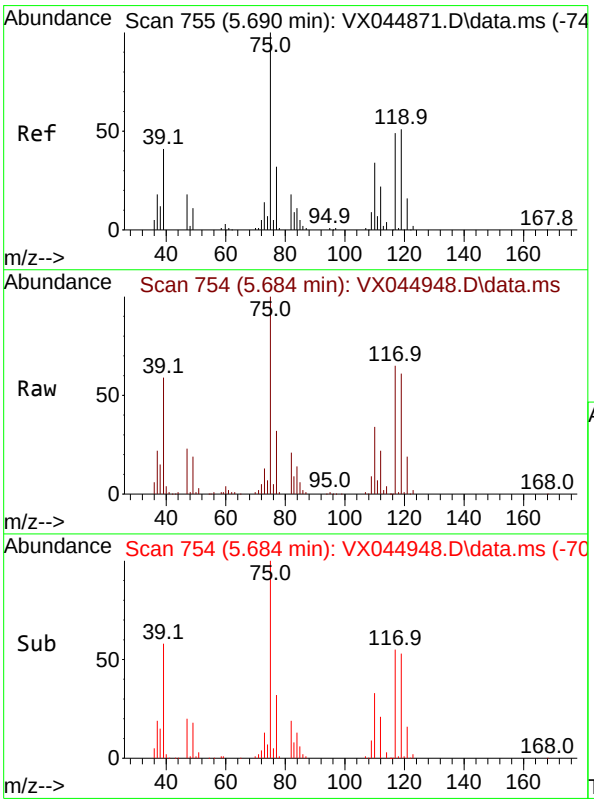
#35
Dibromofluoromethane
Concen: 51.473 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 65208

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.5	125.3
192	17.9	14.4	21.6

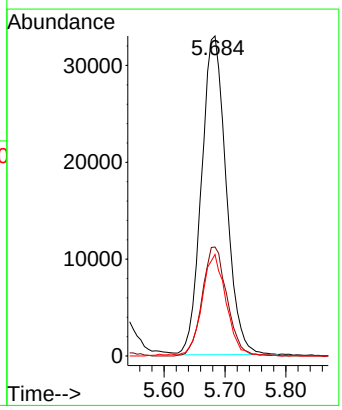


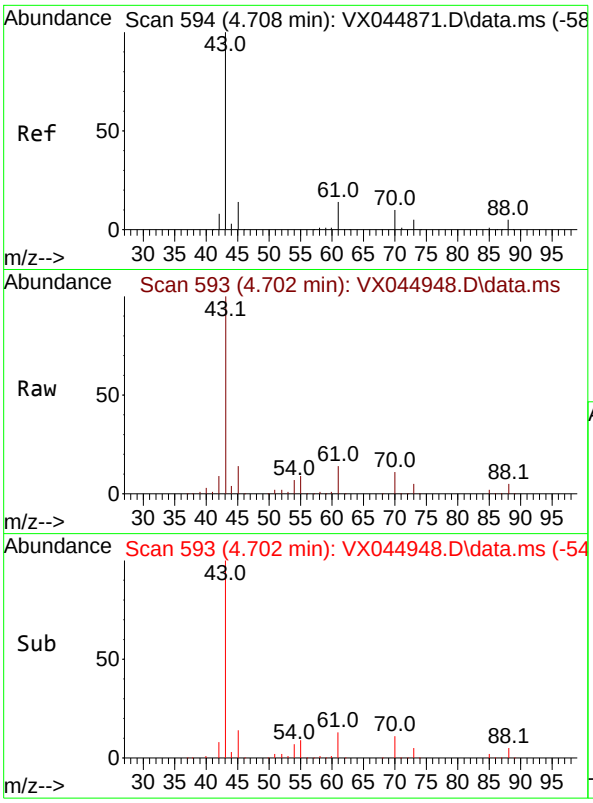


#36
1,1-Dichloropropene
Concen: 50.648 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 92569

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	31.2	24.6	37.0



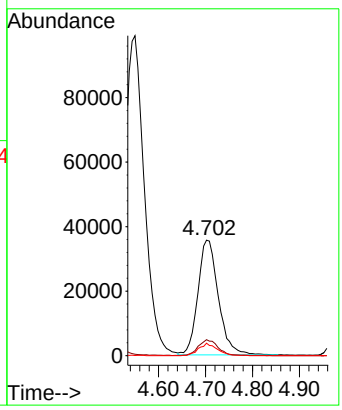


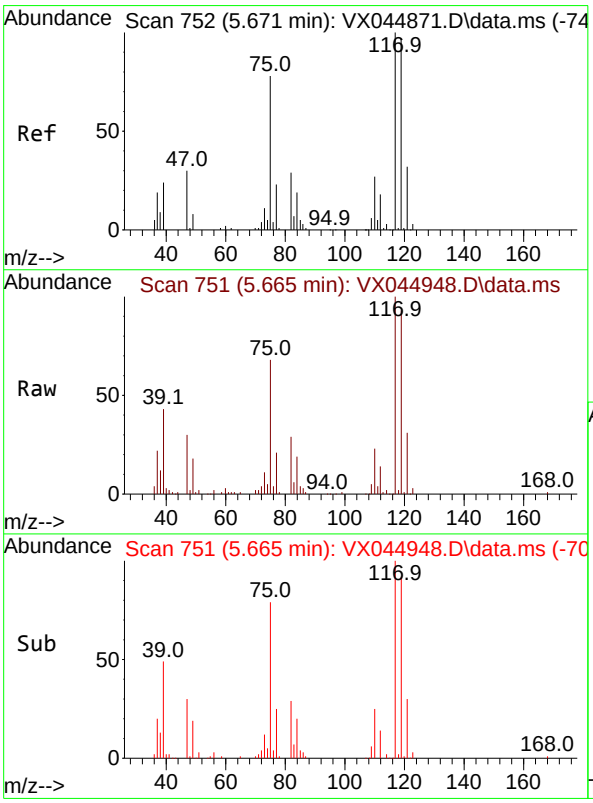
#37
Ethyl Acetate
Concen: 52.854 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 107447

Ion	Ratio	Lower	Upper
43	100		
61	12.8	11.0	16.4
70	9.8	8.2	12.2

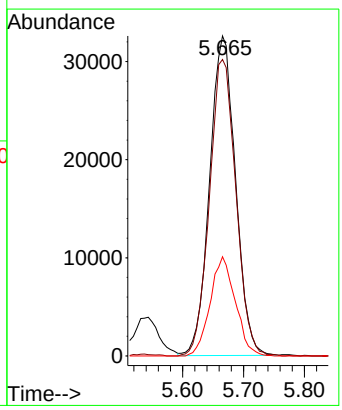


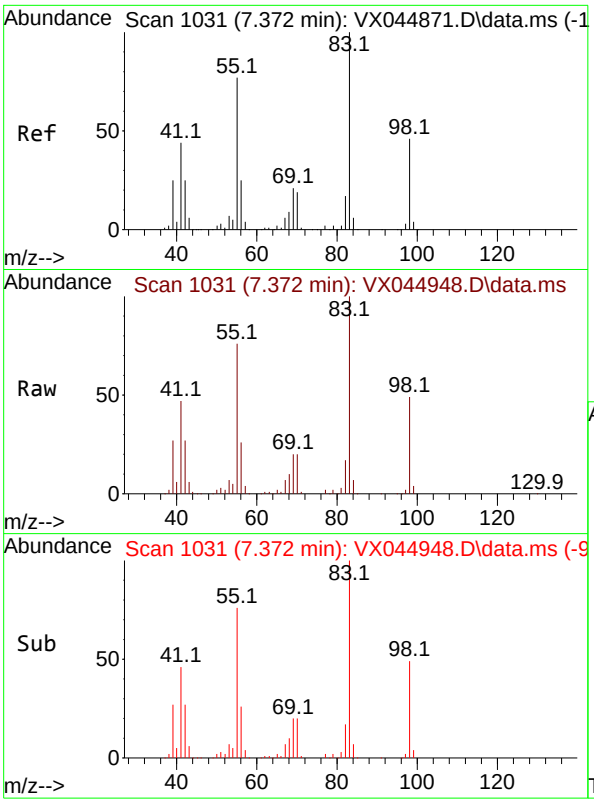


#38
Carbon Tetrachloride
Concen: 53.647 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:117 Resp: 96084

Ion	Ratio	Lower	Upper
117	100		
119	92.9	77.5	116.3
121	31.1	25.6	38.4



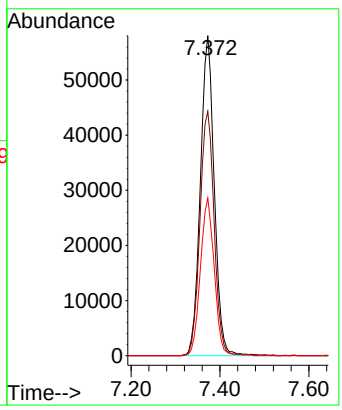


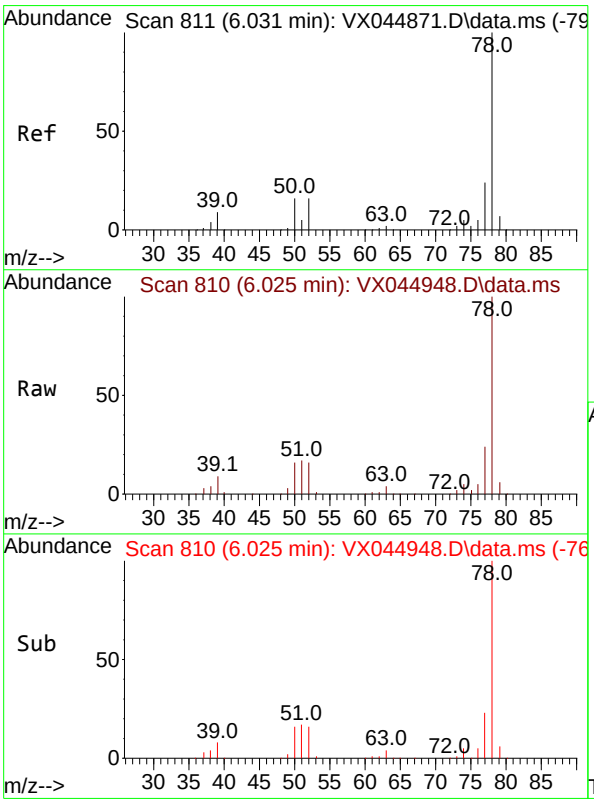
#39
Methylcyclohexane
Concen: 53.611 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 126678

Ion	Ratio	Lower	Upper
83	100		
55	76.3	61.3	91.9
98	49.3	37.0	55.6

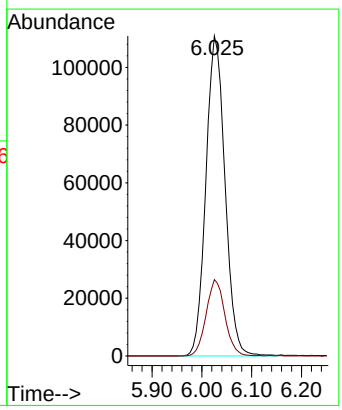


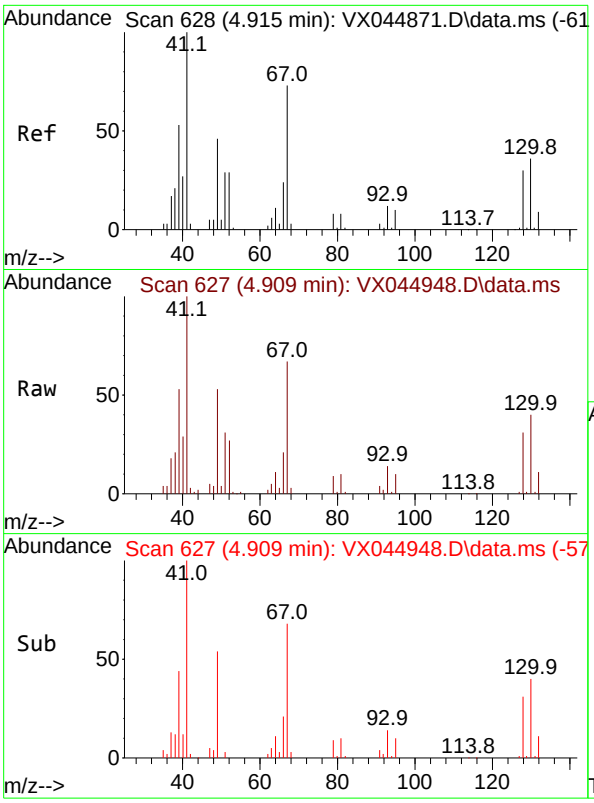


#40
Benzene
Concen: 51.720 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 78 Resp: 295171

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6



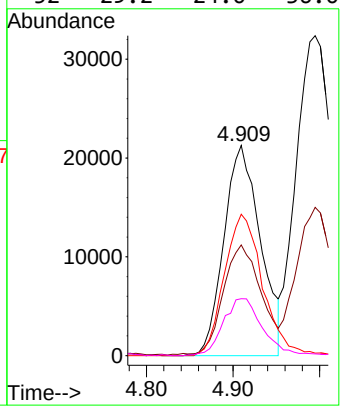


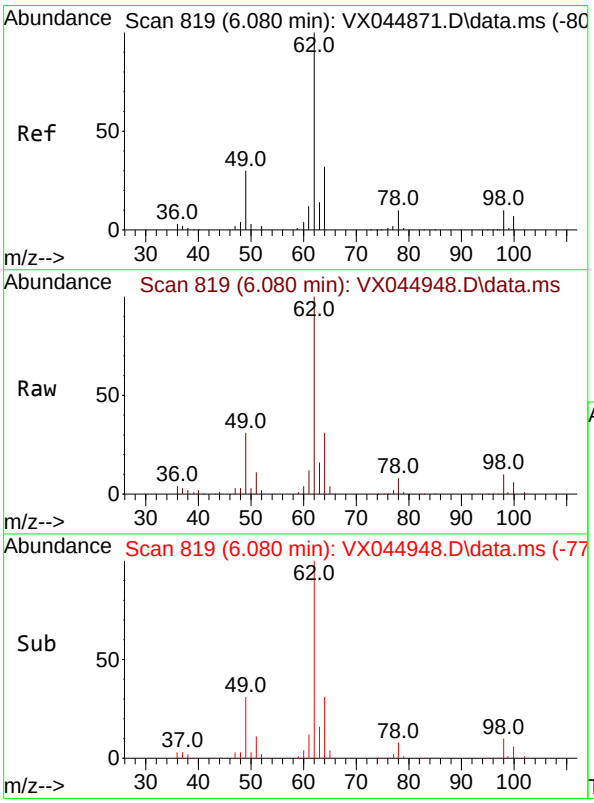
#41
Methacrylonitrile
Concen: 57.439 ug/l
RT: 4.909 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 62502

Ion	Ratio	Lower	Upper
41	100		
39	54.3	43.1	64.7
67	70.9	57.0	85.6
52	29.2	24.0	36.0

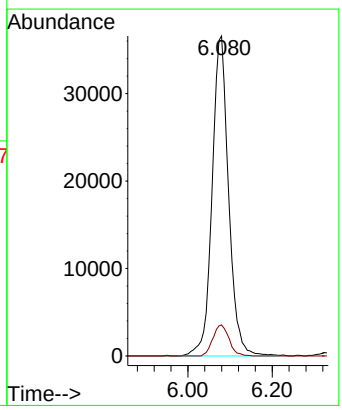


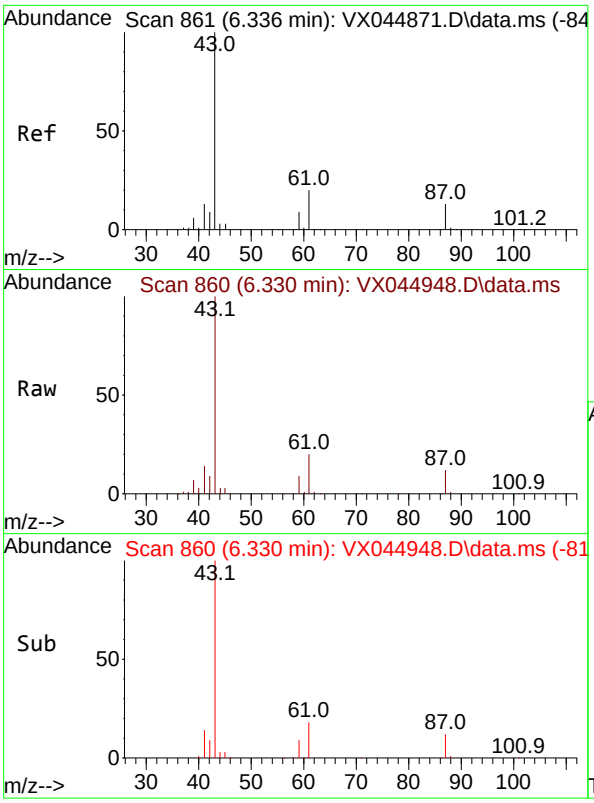


#42
1,2-Dichloroethane
Concen: 54.630 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 62 Resp: 99367

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.4



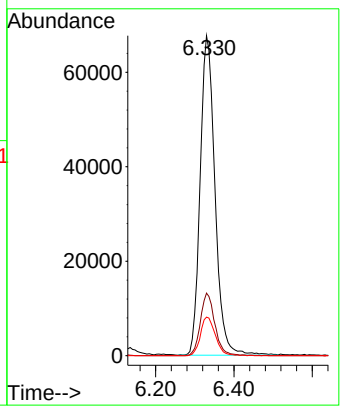


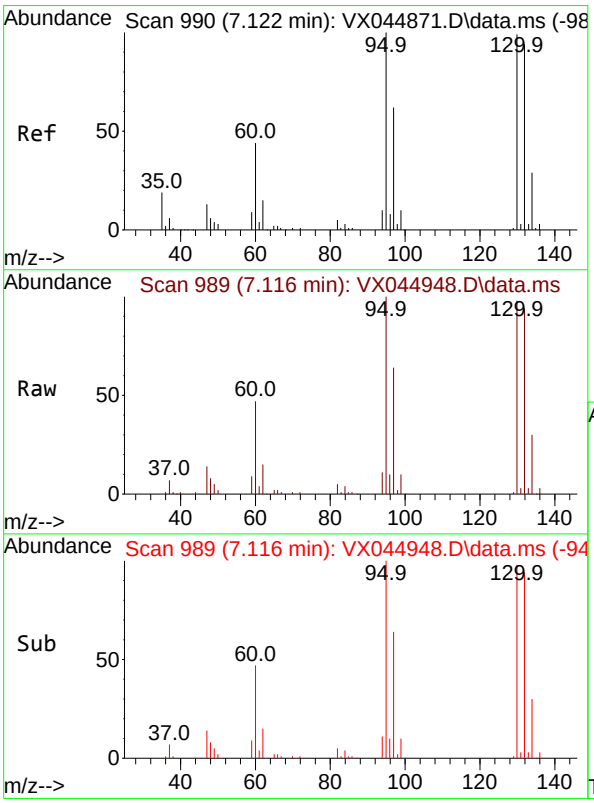
#43
Isopropyl Acetate
Concen: 54.238 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 178056

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.8	23.8
87	12.2	10.0	15.0

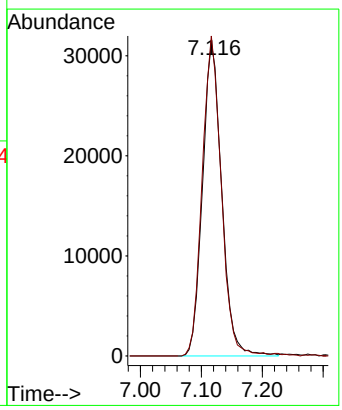


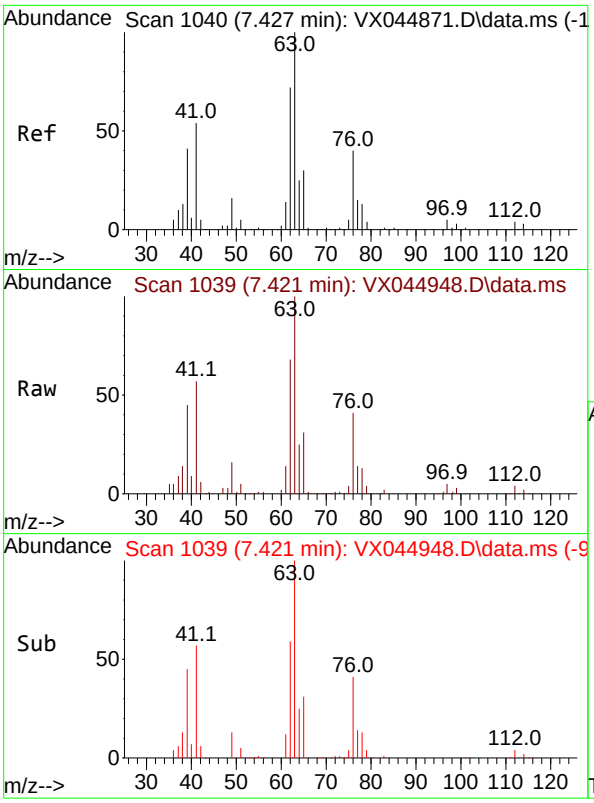


#44
Trichloroethene
Concen: 52.686 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:130 Resp: 68729

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	202.4



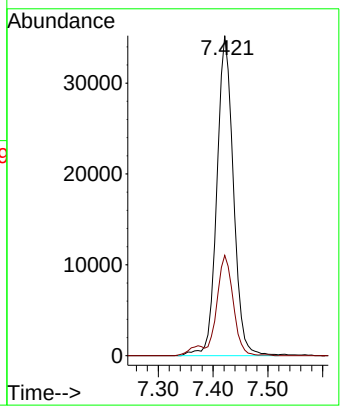


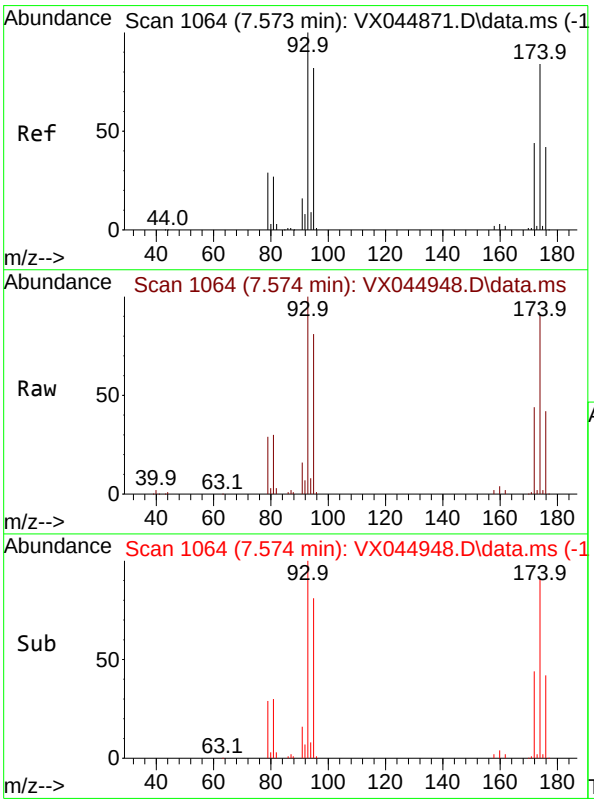
#45
1,2-Dichloropropane
Concen: 52.086 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 73954

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.2	36.4

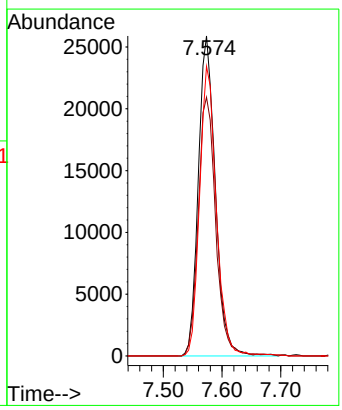


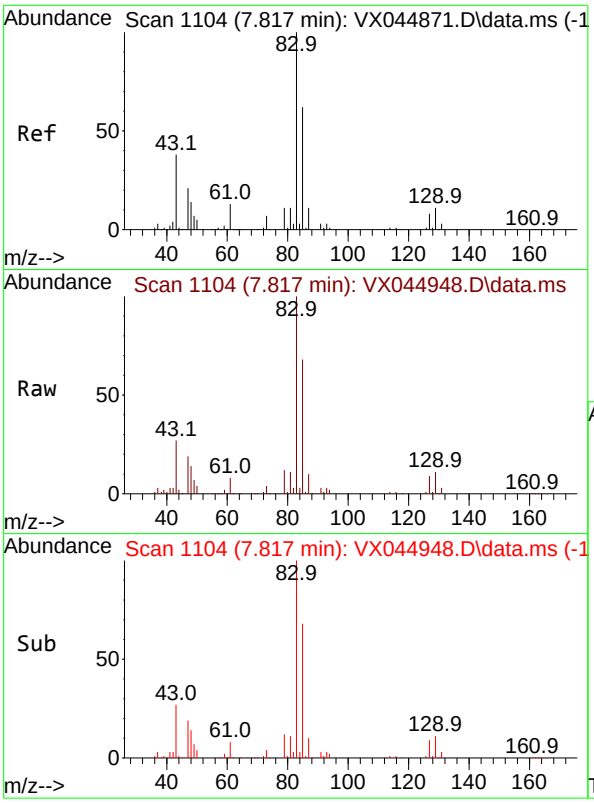


#46
Dibromomethane
Concen: 52.910 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 93 Resp: 52099

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.2	99.4
174	88.5	69.9	104.9



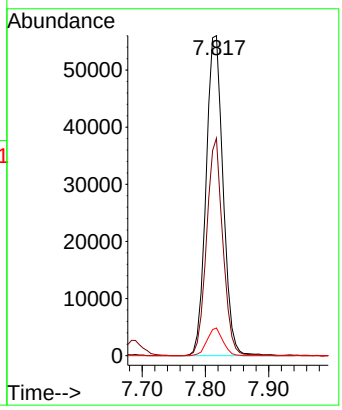


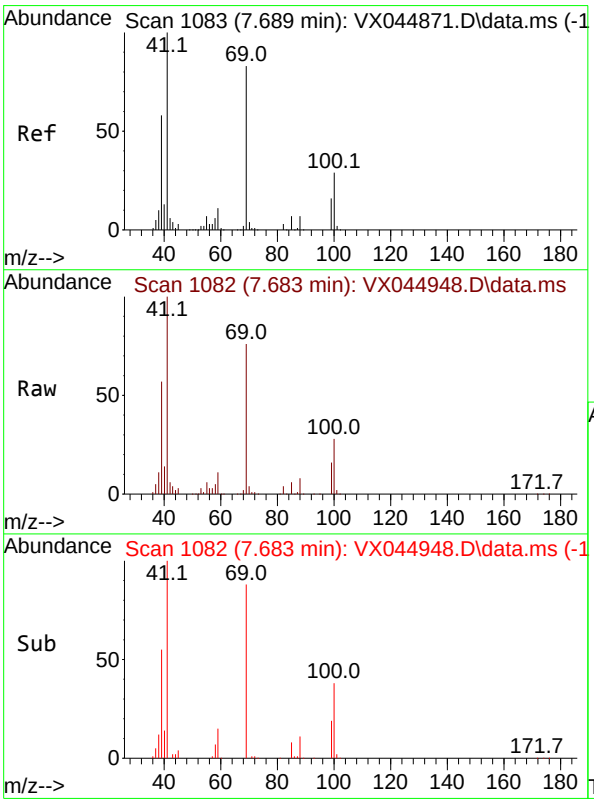
#47
Bromodichloromethane
Concen: 54.897 ug/l
RT: 7.817 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 104667

Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.0	75.0
127	8.7	6.4	9.6

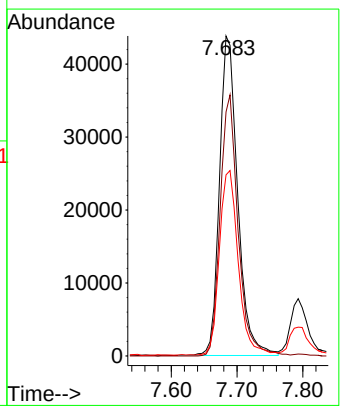


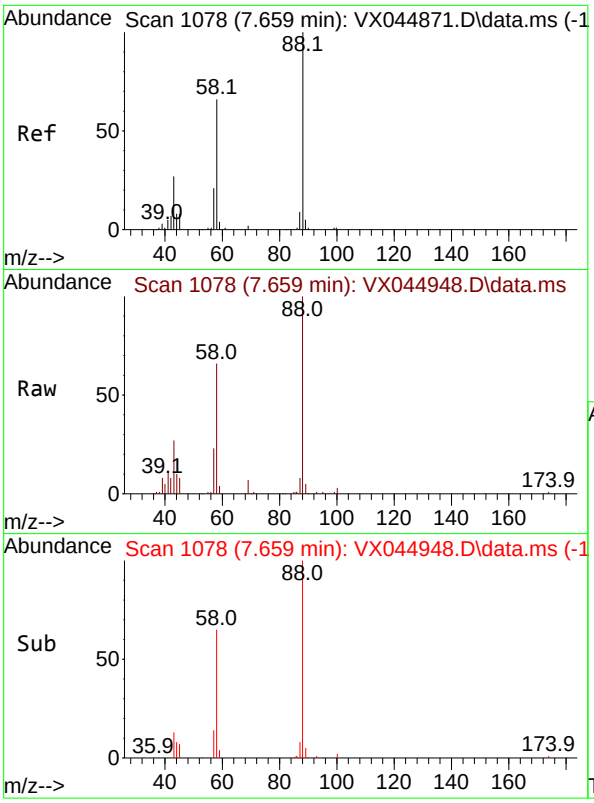


#48
Methyl methacrylate
Concen: 54.559 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 41 Resp: 84452

Ion	Ratio	Lower	Upper
41	100		
69	80.4	65.8	98.8
39	59.9	46.4	69.6



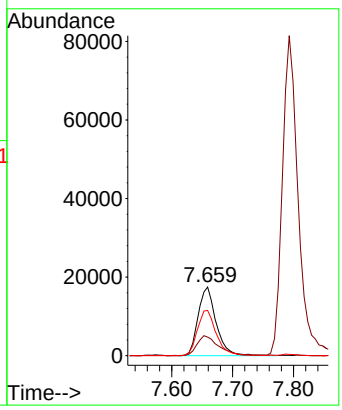


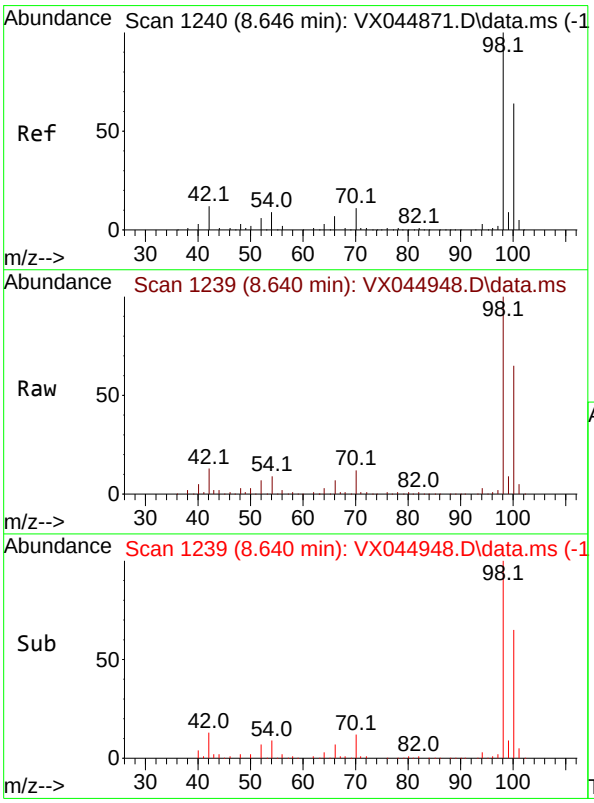
#49
1,4-Dioxane
Concen: 1079.521 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 35851

Ion	Ratio	Lower	Upper
88	100		
43	35.2	26.6	39.8
58	69.2	55.9	83.9

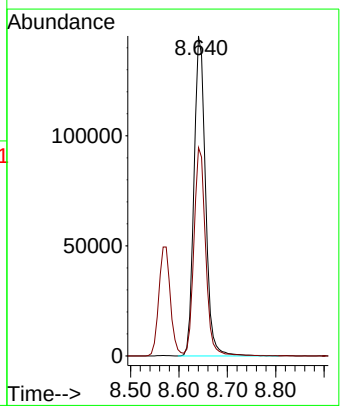


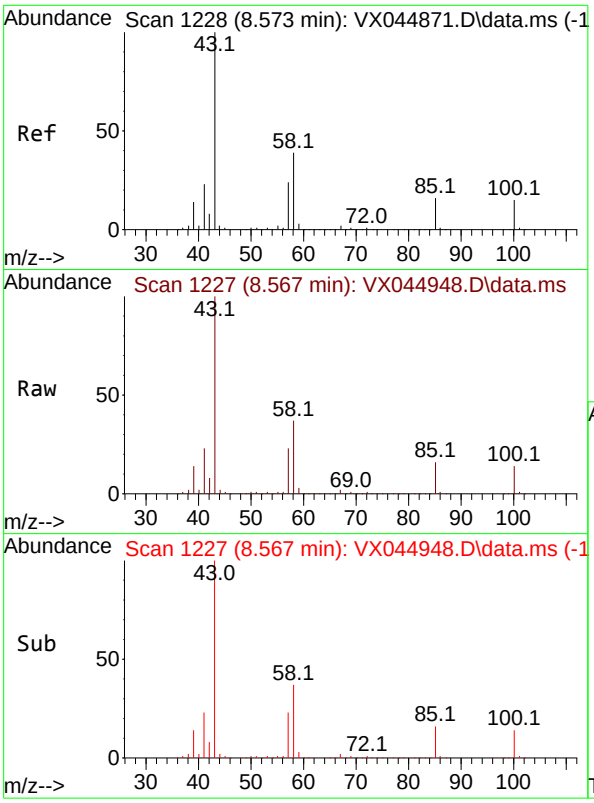


#50
Toluene-d8
Concen: 50.081 ug/l
RT: 8.640 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 98 Resp: 239910

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.7	79.1



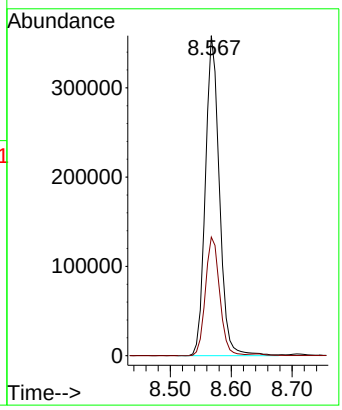


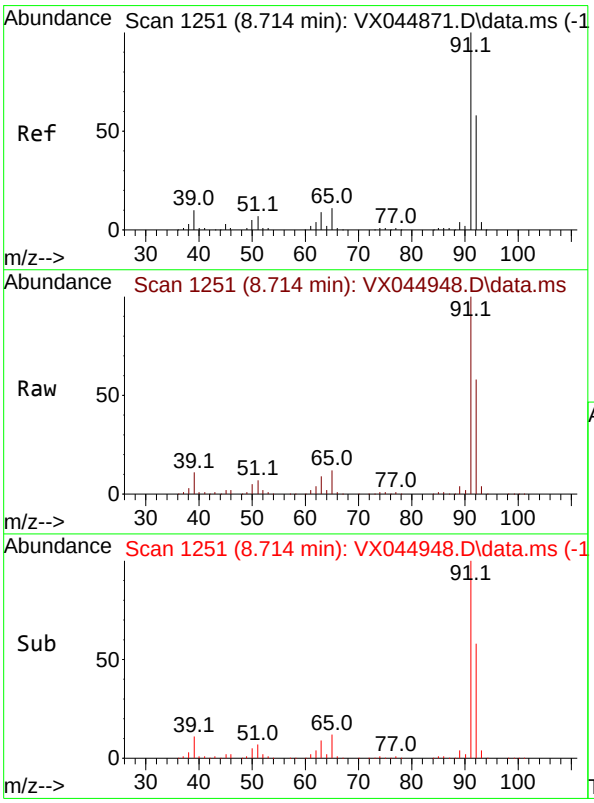
#51
4-Methyl-2-Pentanone
Concen: 287.542 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 573871

Ion	Ratio	Lower	Upper
43	100		
58	37.6	30.8	46.2

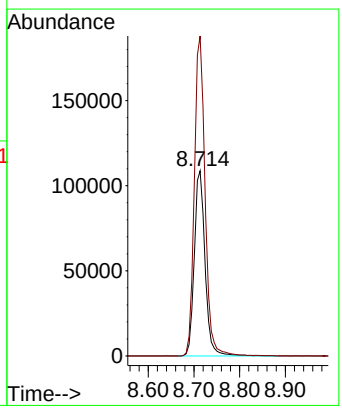


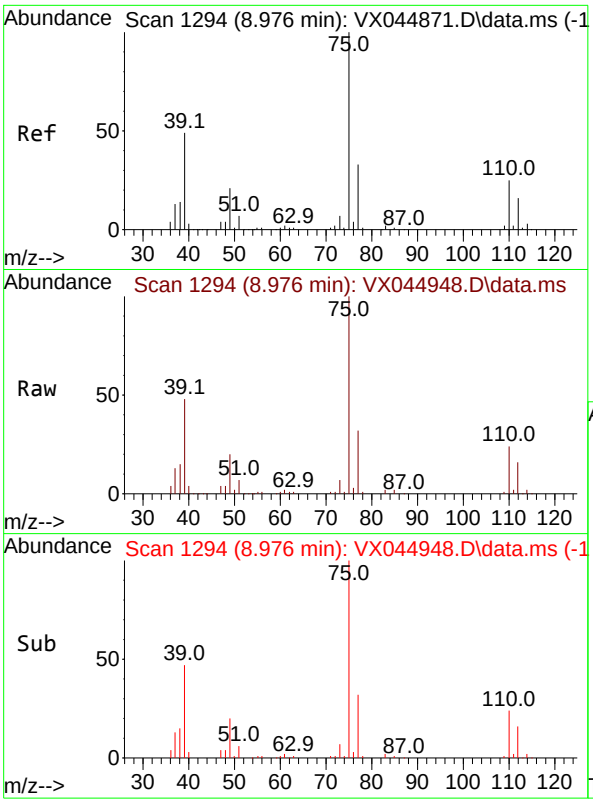


#52
Toluene
Concen: 52.259 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 92 Resp: 177622

Ion	Ratio	Lower	Upper
92	100		
91	172.6	137.4	206.2



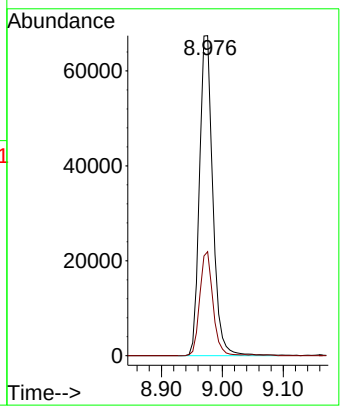


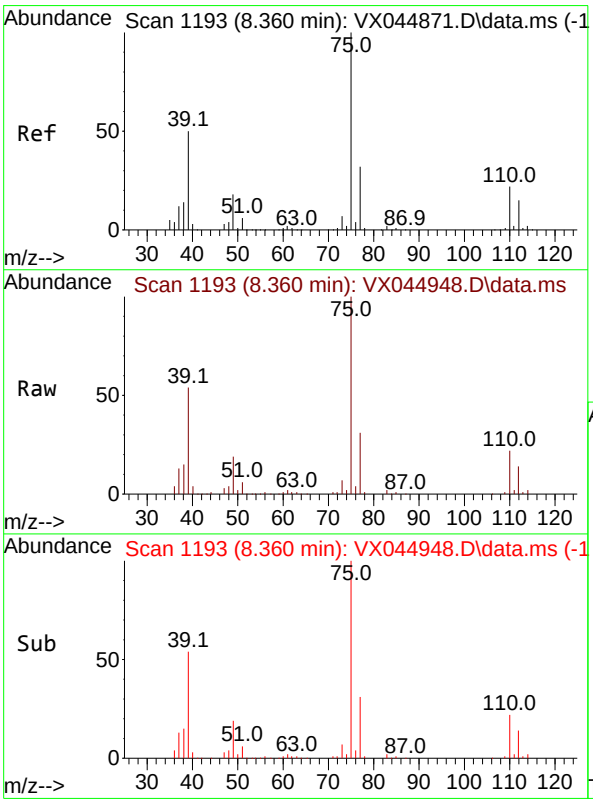
#53
t-1,3-Dichloropropene
Concen: 53.088 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 102427

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.0	39.0

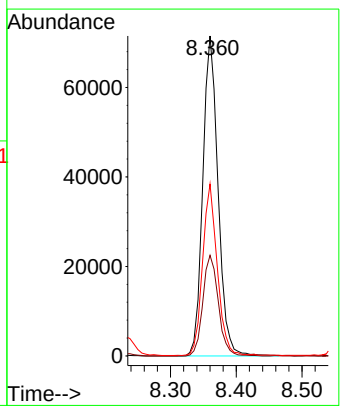


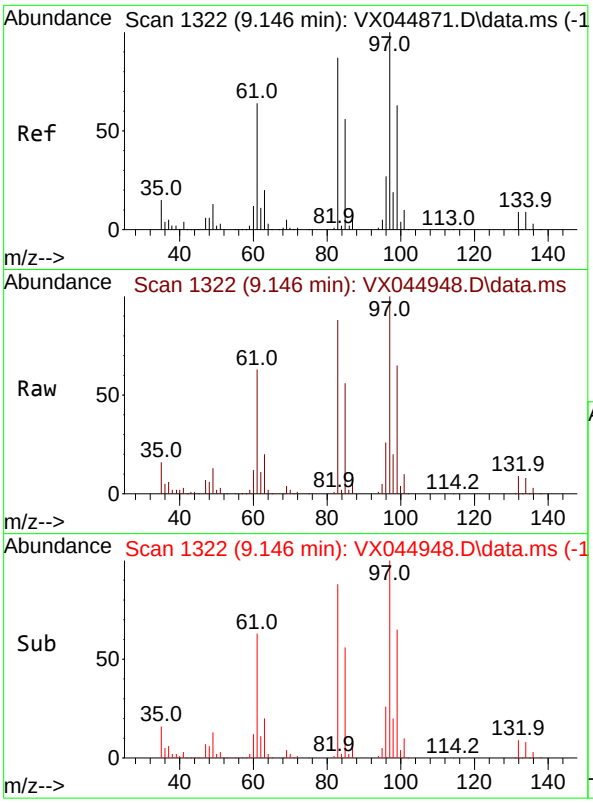


#54
cis-1,3-Dichloropropene
Concen: 53.670 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 115454

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.3	37.9
39	53.6	40.0	60.0



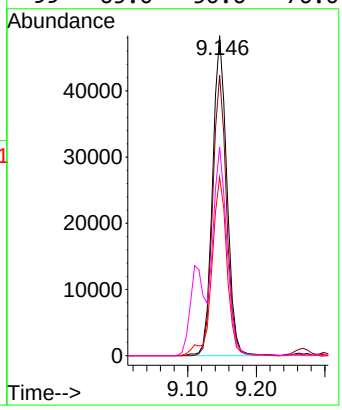


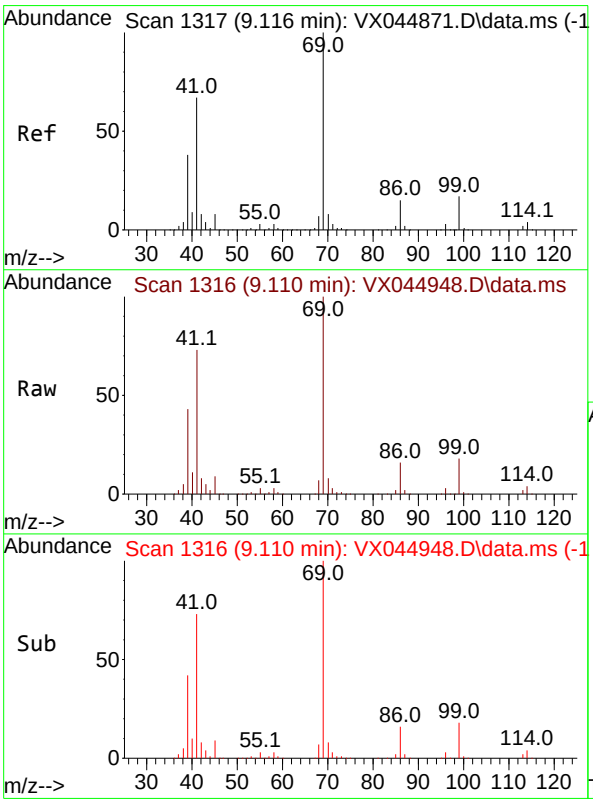
#55
1,1,2-Trichloroethane
Concen: 53.569 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 69992

Ion	Ratio	Lower	Upper
97	100		
83	87.7	69.8	104.6
85	55.8	44.8	67.2
99	65.0	50.6	76.0

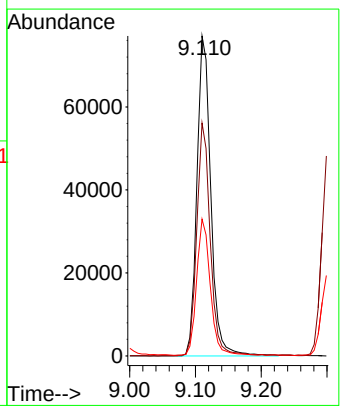


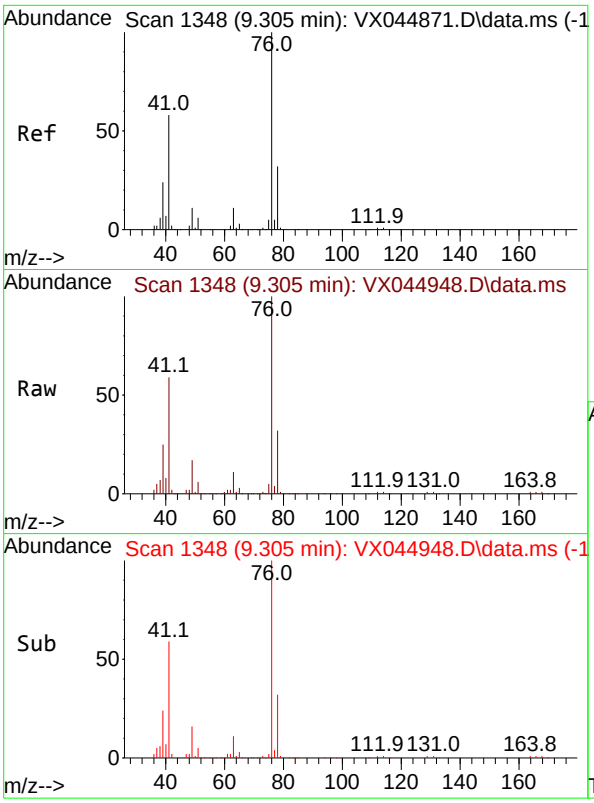


#56
Ethyl methacrylate
Concen: 53.714 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 69 Resp: 113350

Ion	Ratio	Lower	Upper
69	100		
41	71.0	55.2	82.8
39	41.9	30.8	46.2



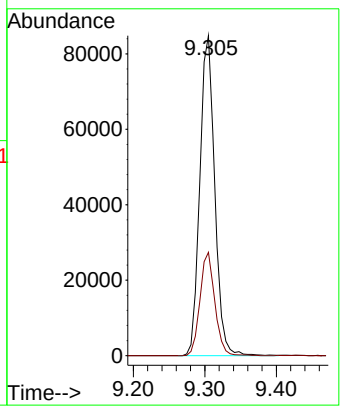


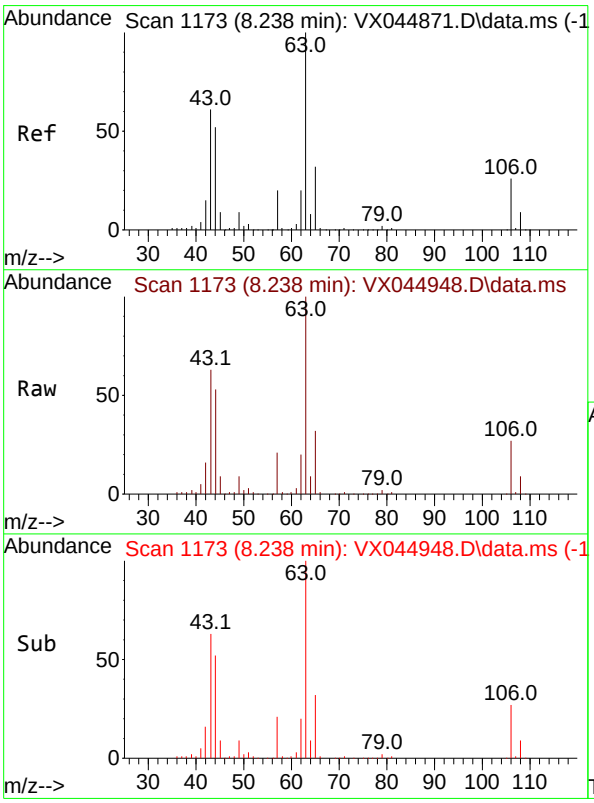
#57
1,3-Dichloropropane
Concen: 53.730 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 122833

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8

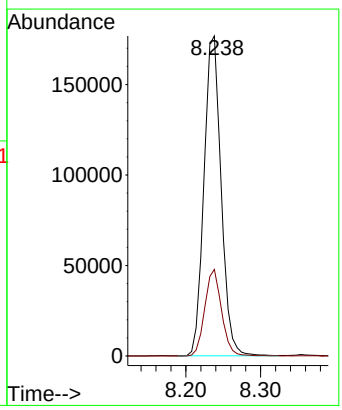


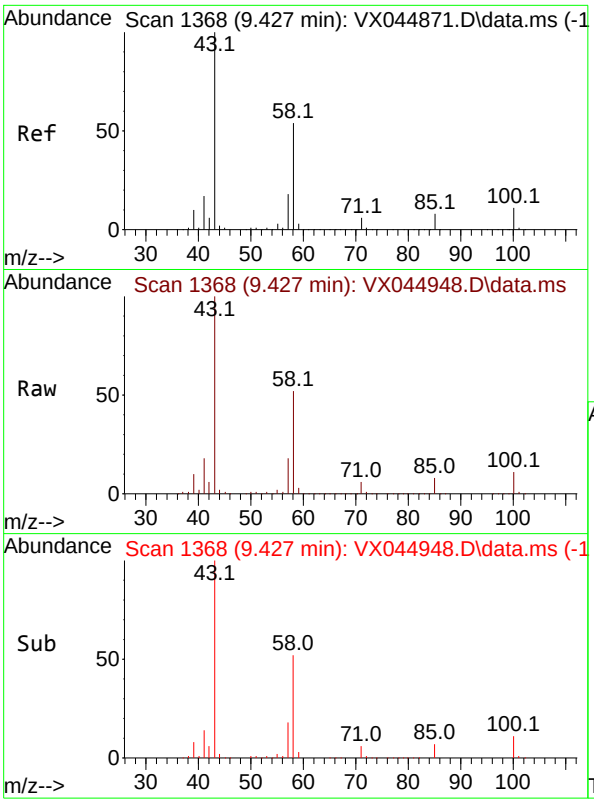


#58
2-Chloroethyl Vinyl ether
Concen: 271.549 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 63 Resp: 281369

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.3	31.9



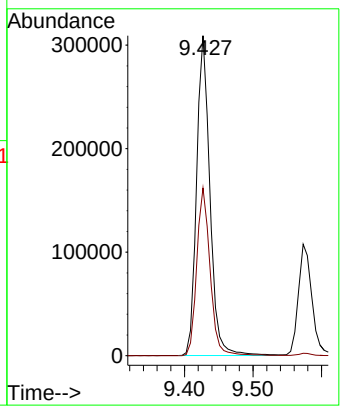


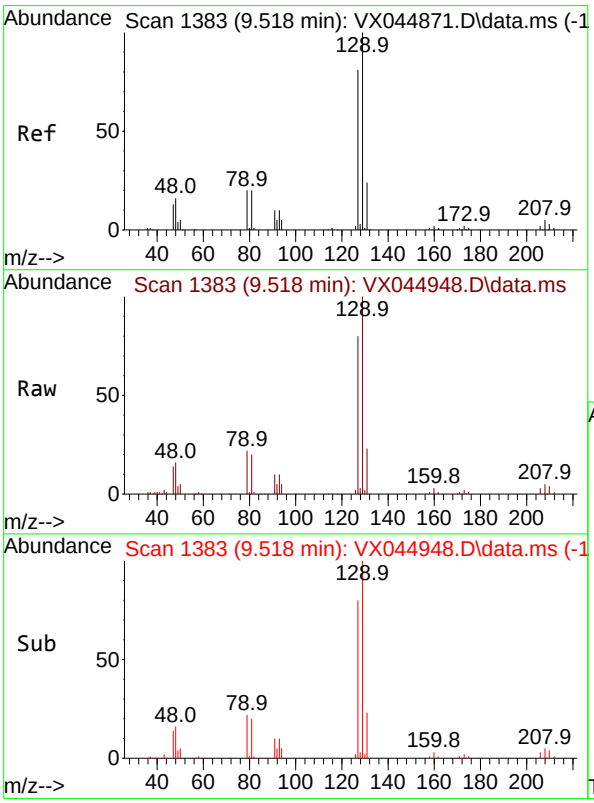
#59
2-Hexanone
Concen: 291.536 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 419224

Ion	Ratio	Lower	Upper
43	100		
58	52.6	27.5	82.4

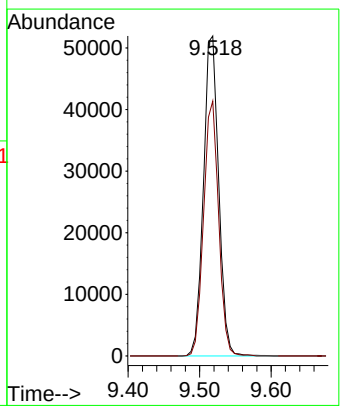


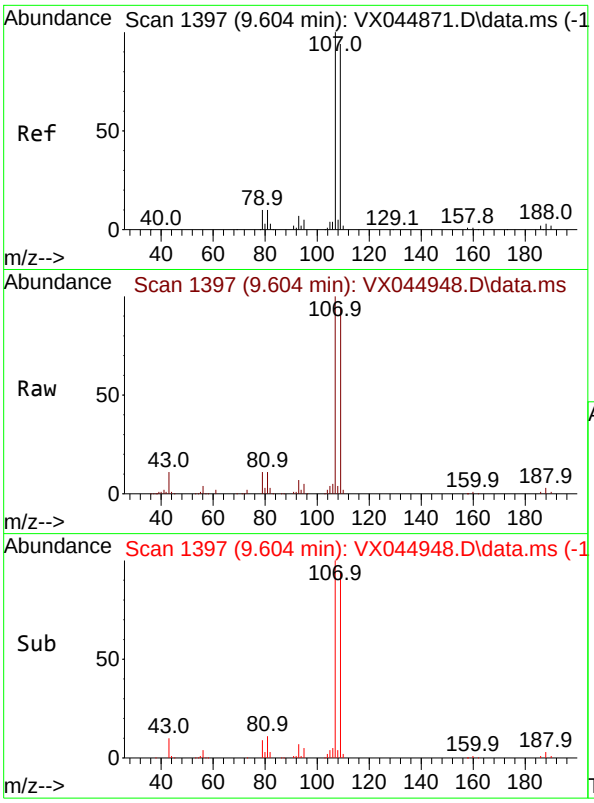


#60
Dibromochloromethane
Concen: 55.049 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:129 Resp: 76923

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3



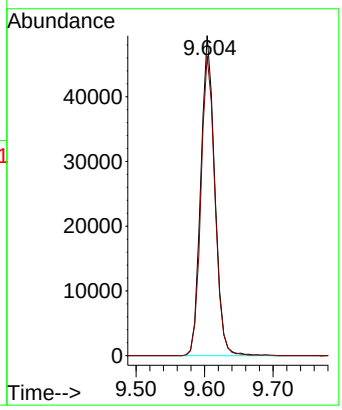


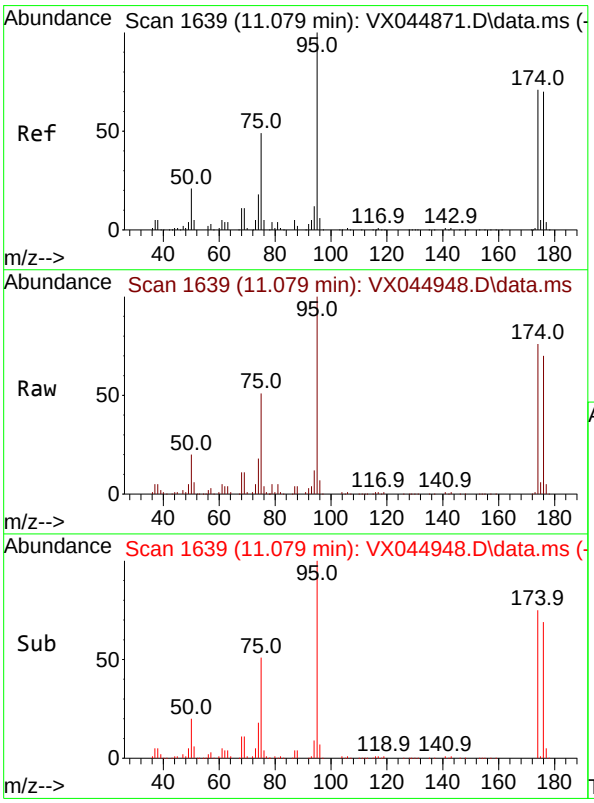
#61
1,2-Dibromoethane
Concen: 53.050 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 70254

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.9	113.9

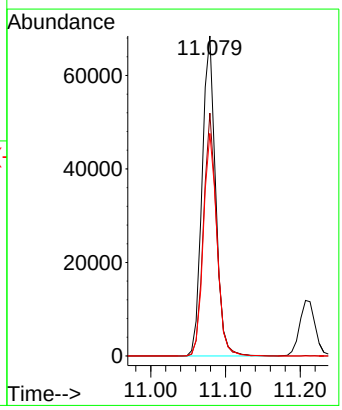


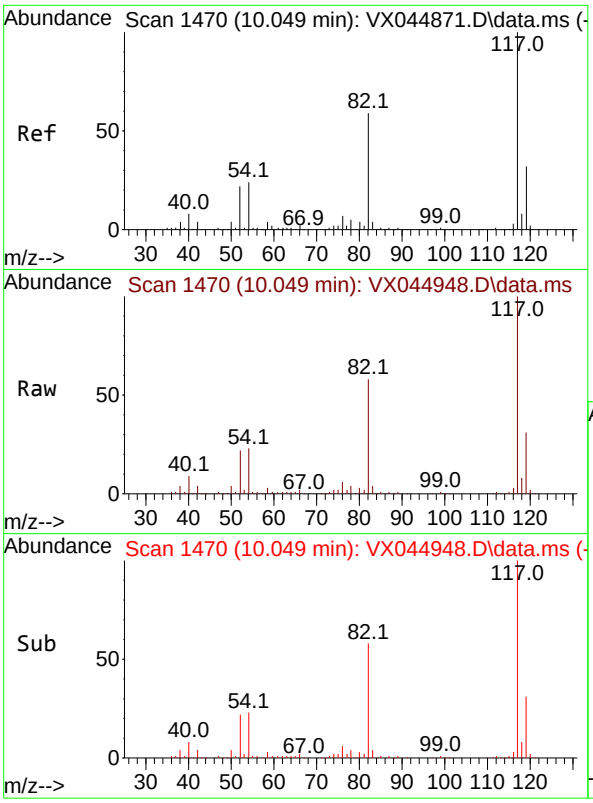


#62
4-Bromofluorobenzene
Concen: 53.134 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 95 Resp: 85808

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	142.6
176	70.0	0.0	141.6



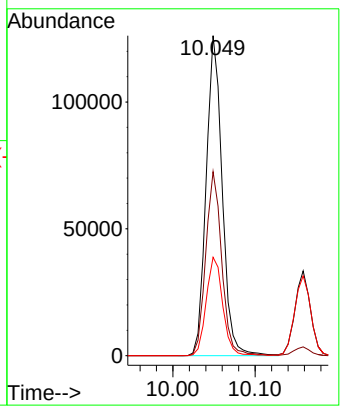


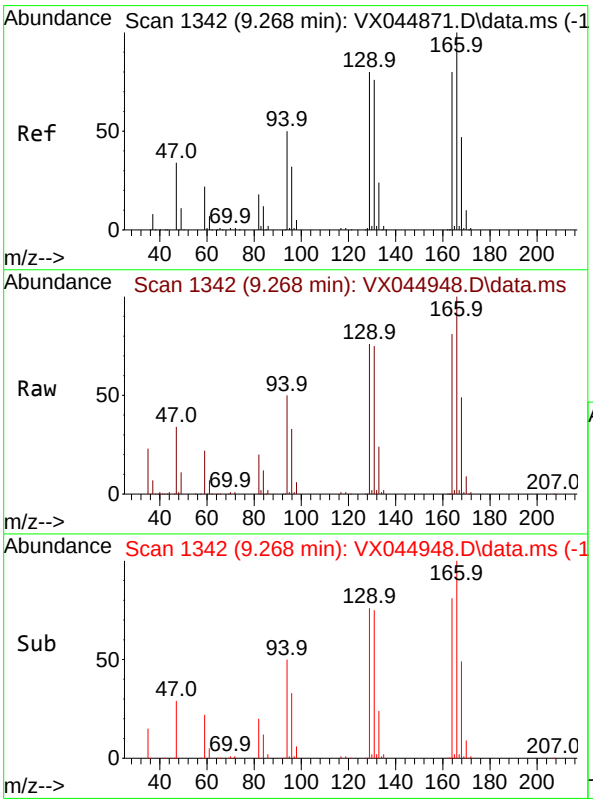
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 171164

Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.5	71.3
119	30.7	25.4	38.0

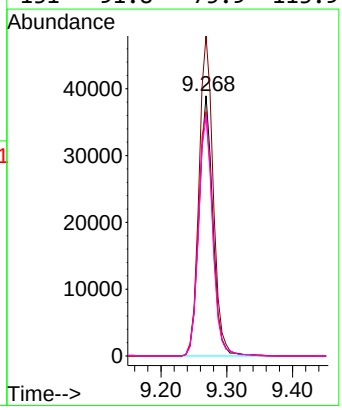


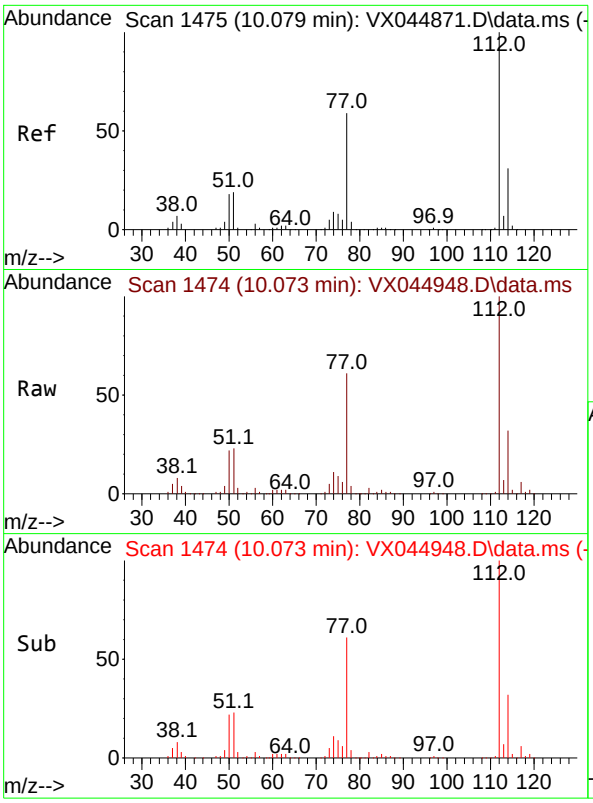


#64
Tetrachloroethene
Concen: 52.606 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:164 Resp: 56785

Ion	Ratio	Lower	Upper
164	100		
166	123.0	100.4	150.6
129	93.9	79.9	119.9
131	91.8	75.9	113.9



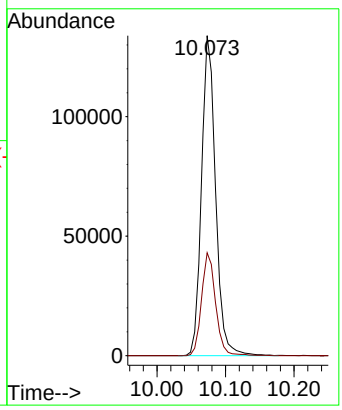


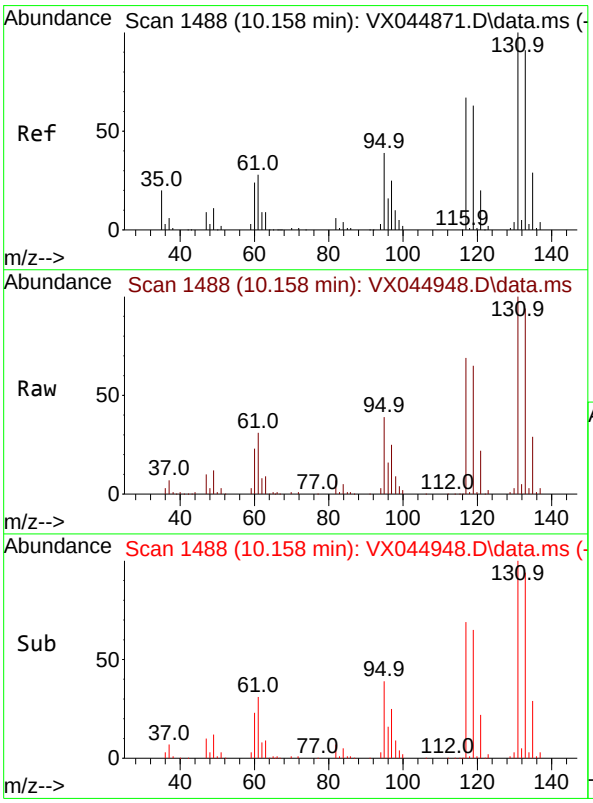
#65
Chlorobenzene
Concen: 52.037 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 191305

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.0	37.6

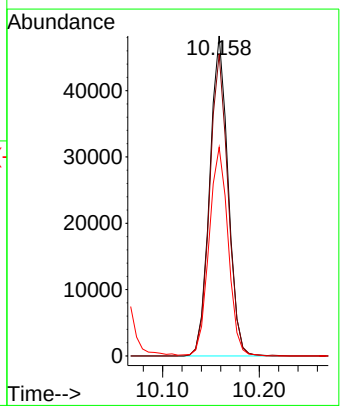


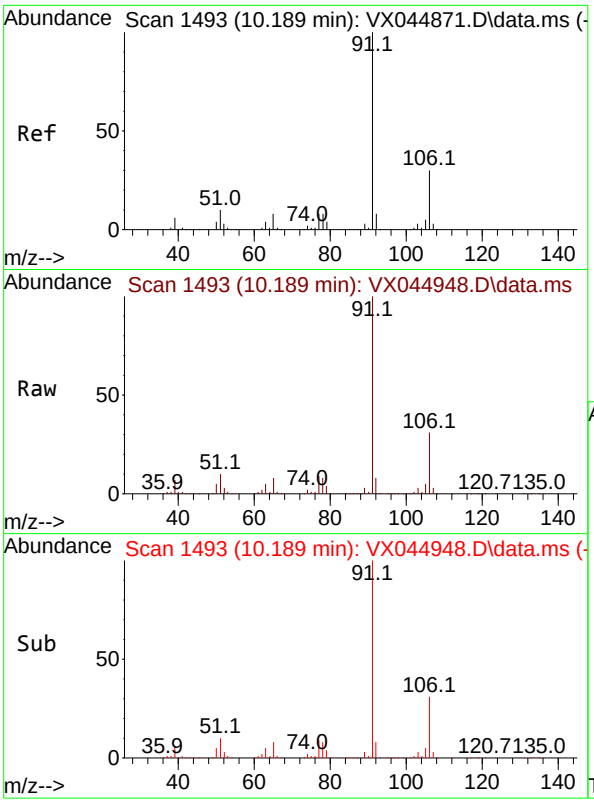


#66
1,1,1,2-Tetrachloroethane
Concen: 53.691 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:131 Resp: 63533

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.1	141.3
119	68.0	33.6	100.6



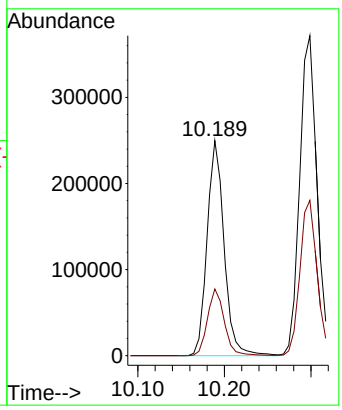


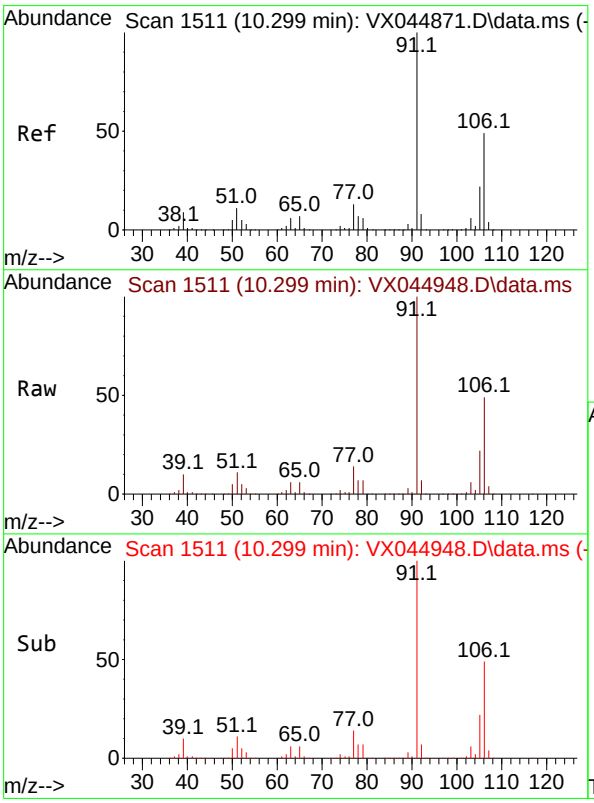
#67
Ethyl Benzene
Concen: 52.604 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 341272

Ion	Ratio	Lower	Upper
91	100		
106	31.1	23.9	35.9

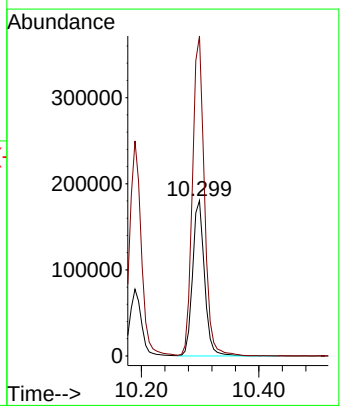


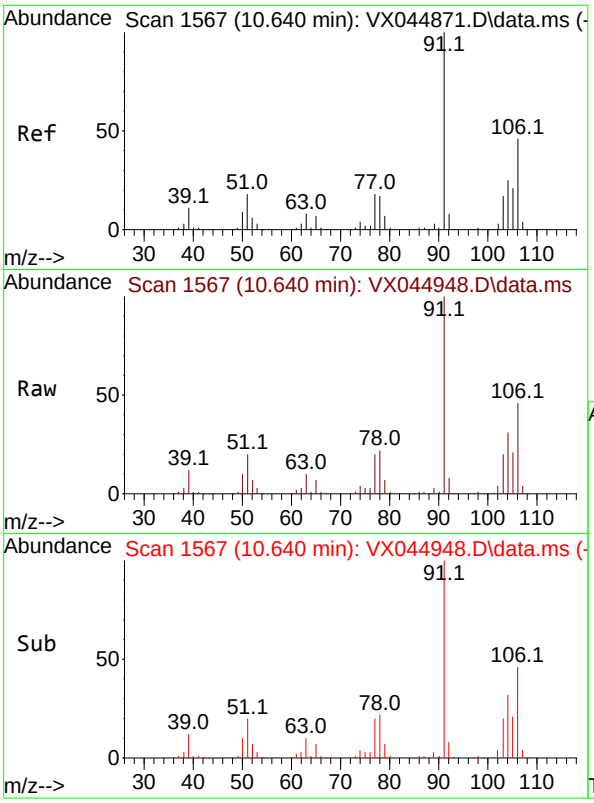


#68
m/p-Xylenes
Concen: 105.747 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:106 Resp: 253071

Ion	Ratio	Lower	Upper
106	100		
91	207.1	164.3	246.5



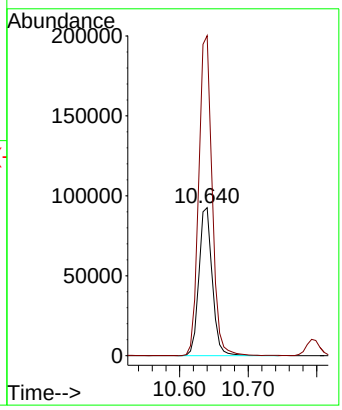


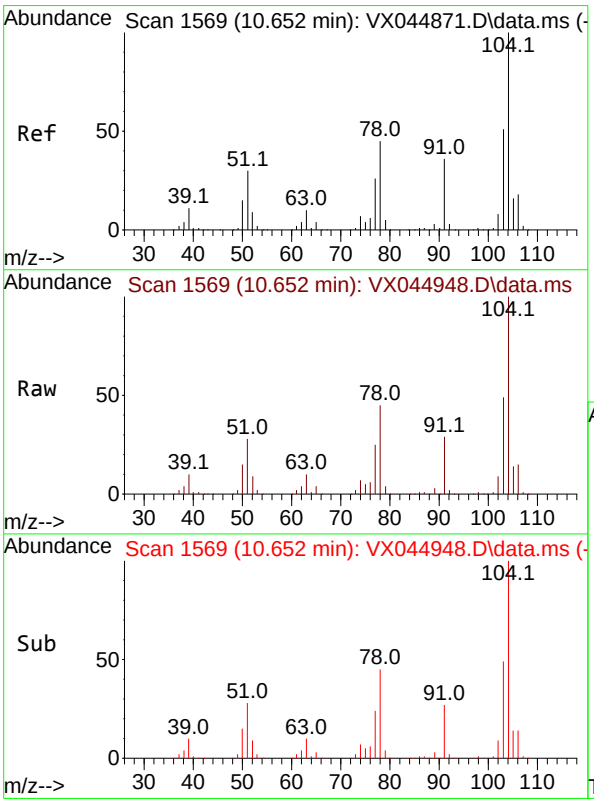
#69
o-Xylene
Concen: 52.257 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 125488

Ion	Ratio	Lower	Upper
106	100		
91	217.0	108.5	325.5

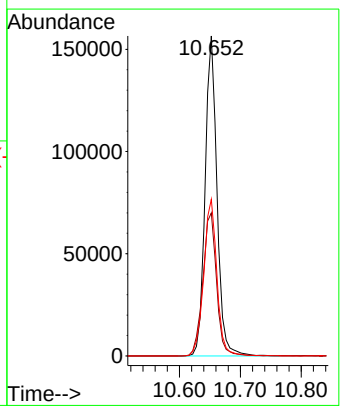


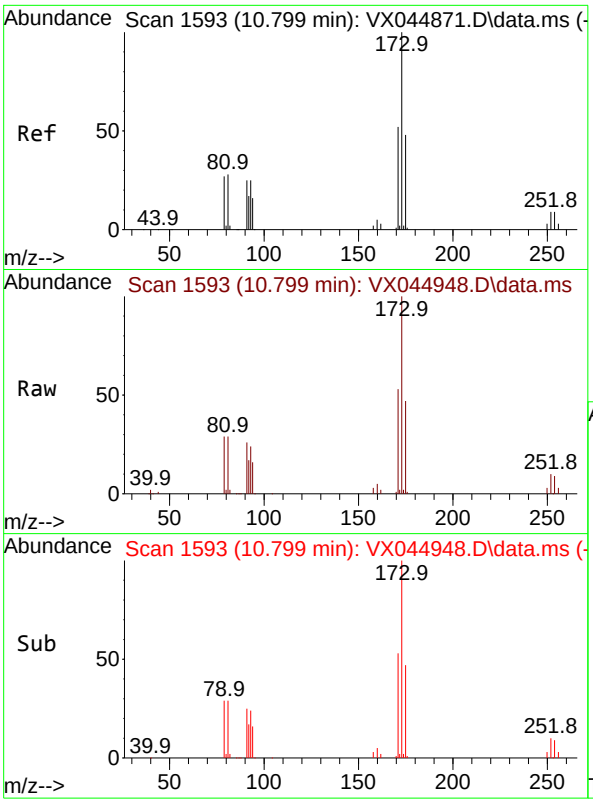


#70
Styrene
Concen: 55.028 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:104 Resp: 212892

Ion	Ratio	Lower	Upper
104	100		
78	51.6	40.5	60.7
103	54.2	43.6	65.4



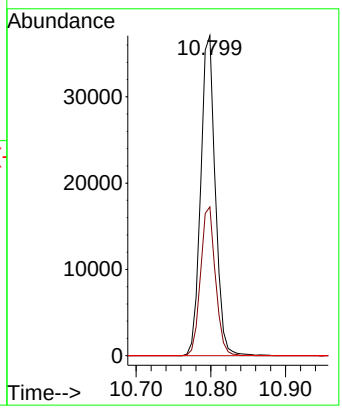


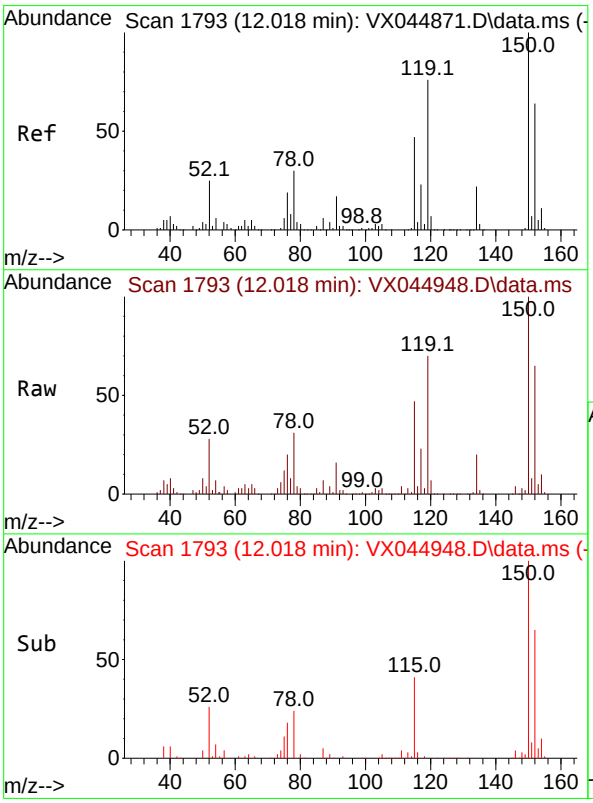
#71
Bromoform
Concen: 56.956 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 50298

Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	72.8
254	0.0	0.0	0.0

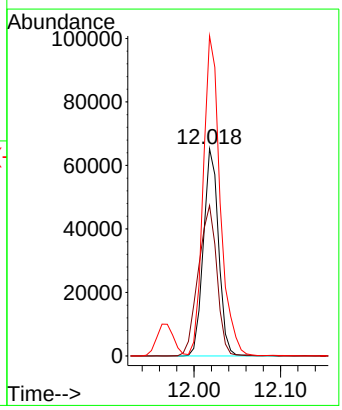


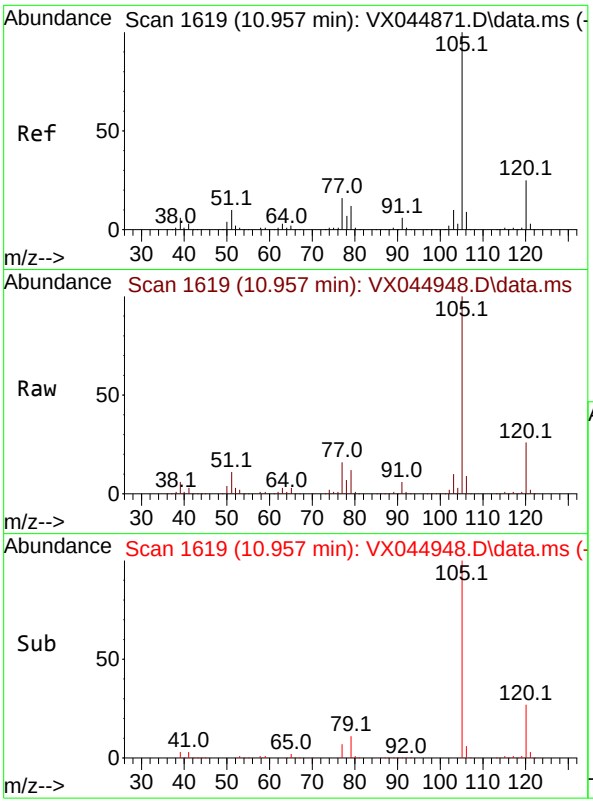


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:152 Resp: 79140

Ion	Ratio	Lower	Upper
152	100		
115	89.1	43.4	130.1
150	172.5	0.0	350.4



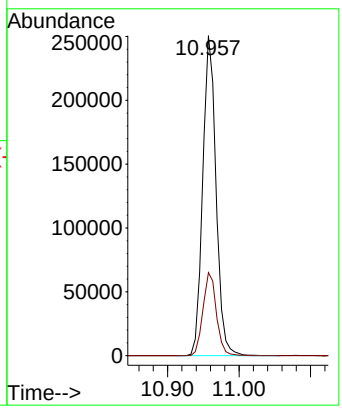


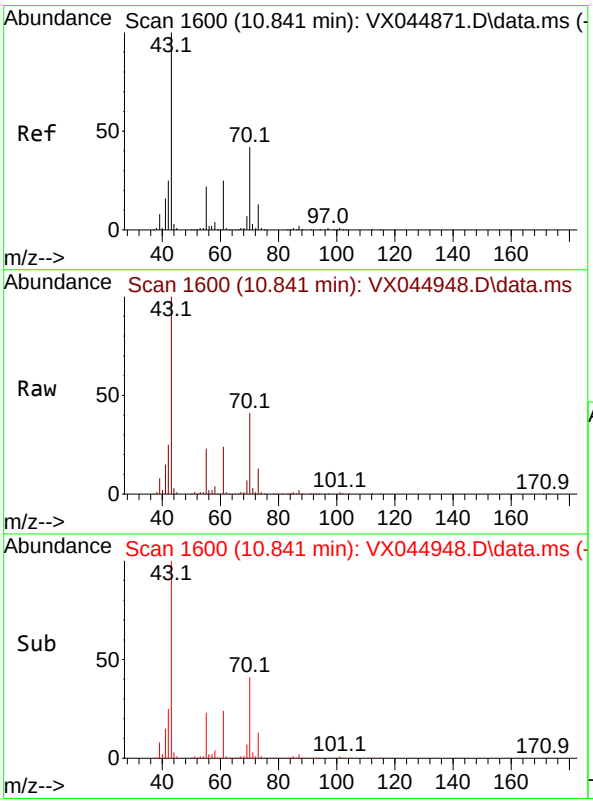
#73
Isopropylbenzene
Concen: 50.759 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 323452

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.5

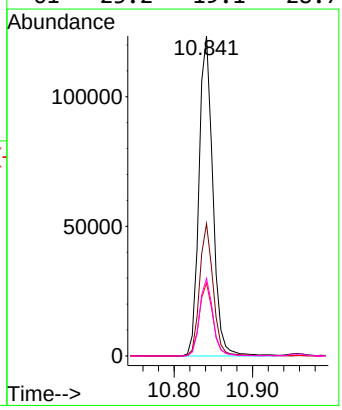


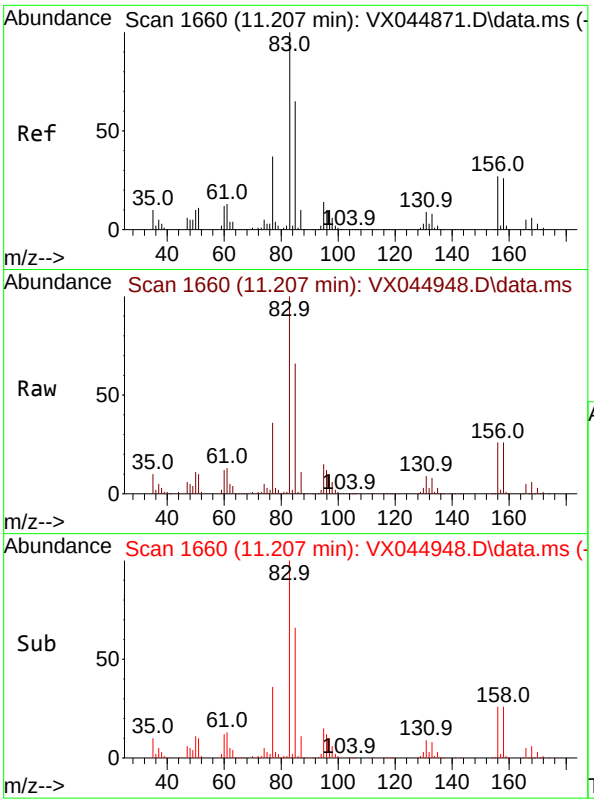


#74
N-amyl acetate
Concen: 52.711 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 43 Resp: 151995

Ion	Ratio	Lower	Upper
43	100		
70	40.1	33.7	50.5
55	22.8	18.6	27.8
61	23.2	19.1	28.7



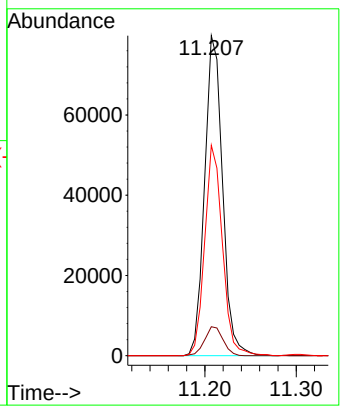


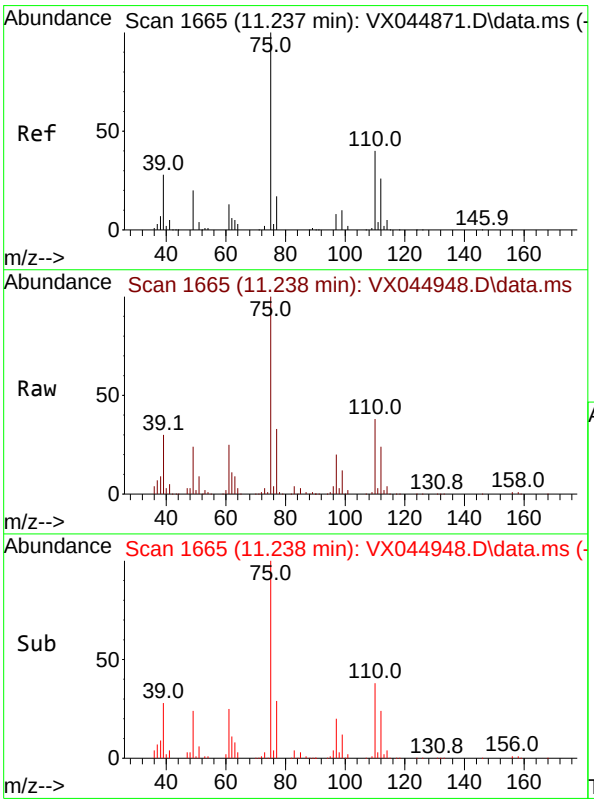
#75
1,1,2,2-Tetrachloroethane
Concen: 49.450 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 108280

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.5
85	65.1	32.3	96.8

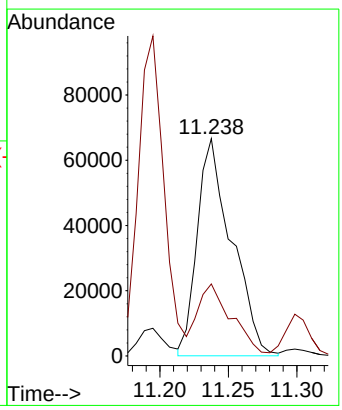


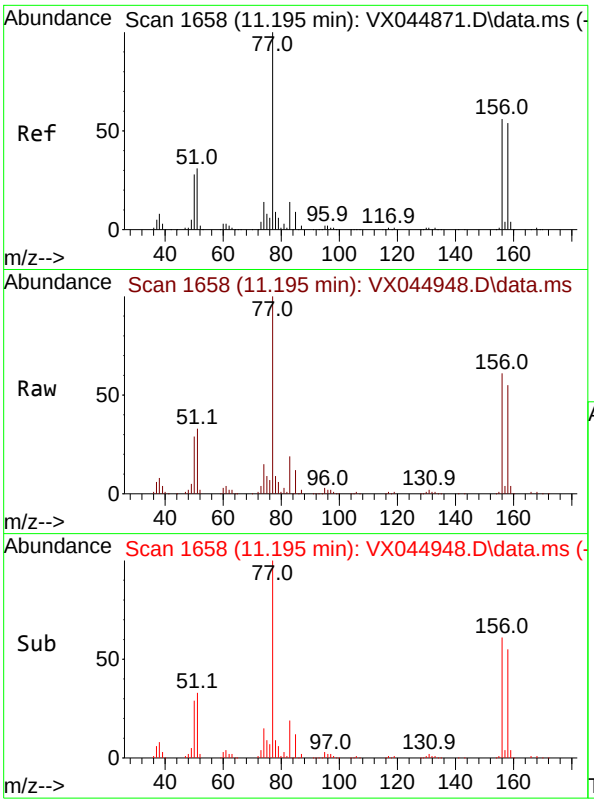


#76
1,2,3-Trichloropropane
Concen: 66.344 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 116411

Ion	Ratio	Lower	Upper
75	100		
77	32.8	21.9	65.7



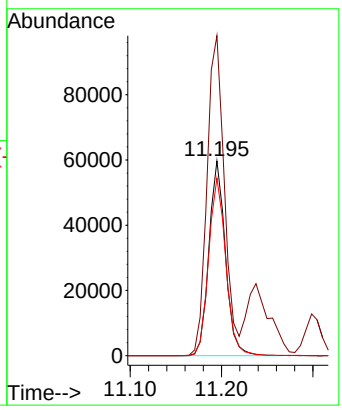


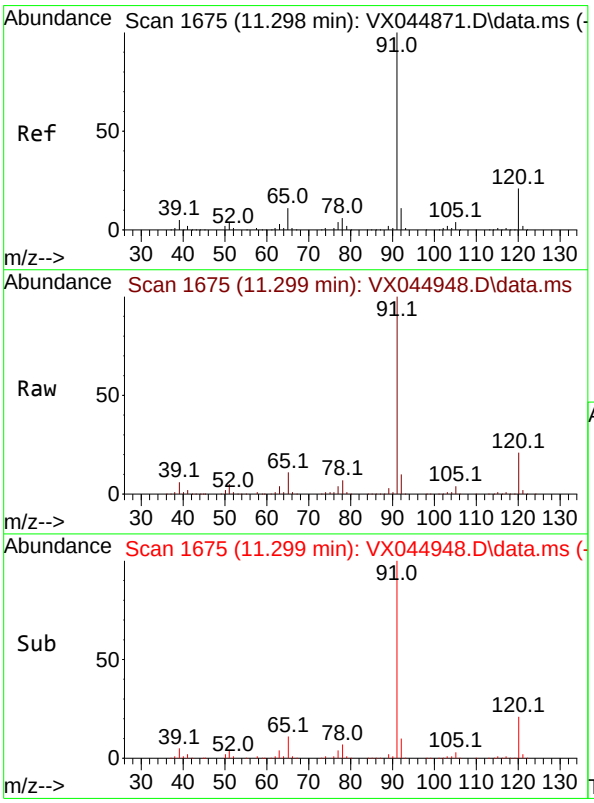
#77
Bromobenzene
Concen: 51.785 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 74813

Ion	Ratio	Lower	Upper
156	100		
77	172.6	88.4	265.3
158	95.3	48.4	145.2

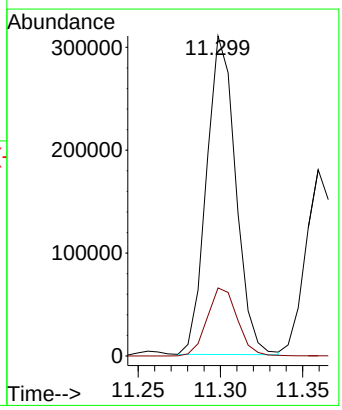


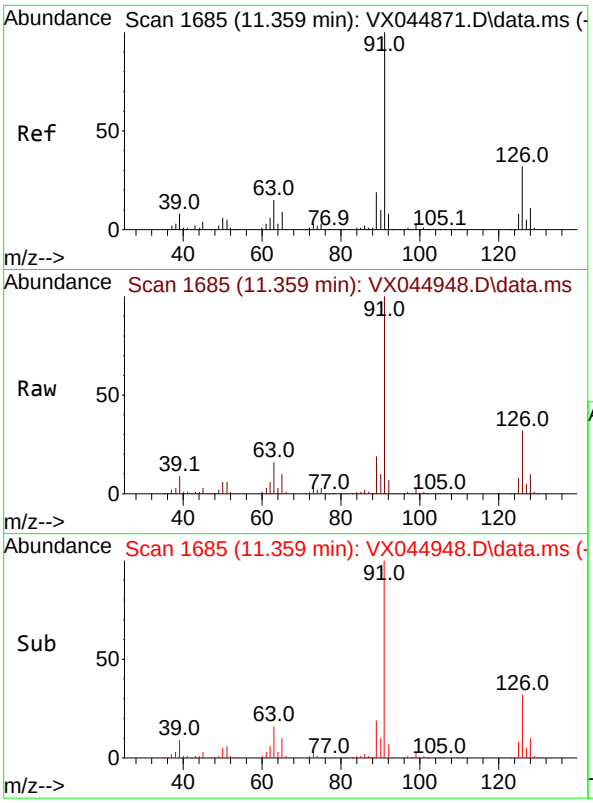


#78
n-propylbenzene
Concen: 52.104 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 91 Resp: 383227

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3



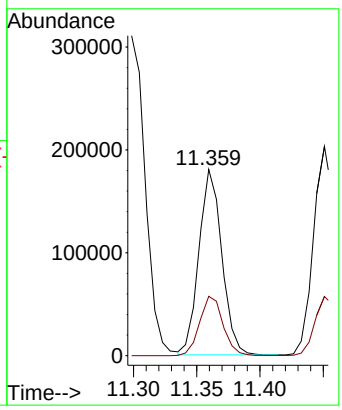


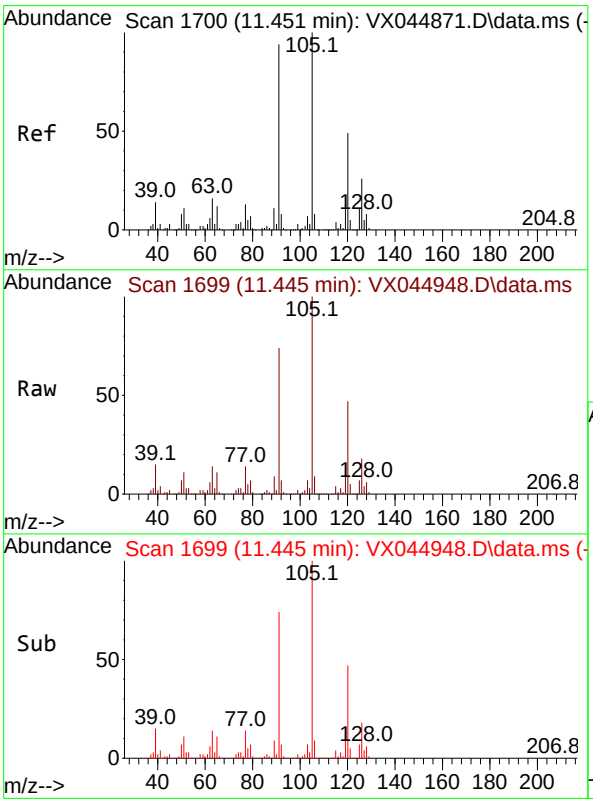
#79
2-Chlorotoluene
Concen: 50.293 ug/l
RT: 11.359 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 227346

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.2	48.6

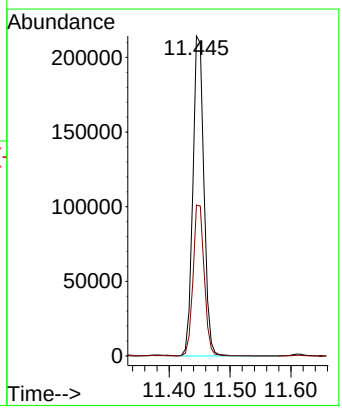


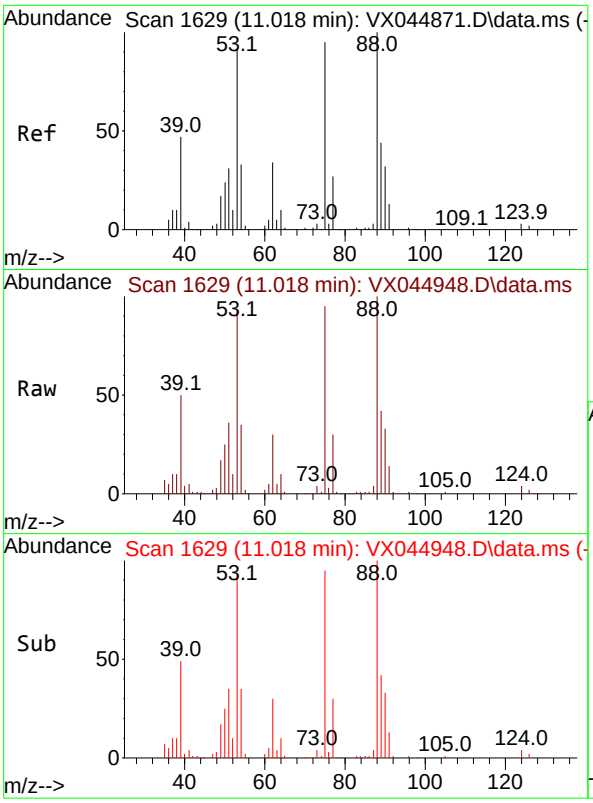


#80
1,3,5-Trimethylbenzene
Concen: 52.135 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:105 Resp: 269593

Ion	Ratio	Lower	Upper
105	100		
120	47.7	24.0	72.0



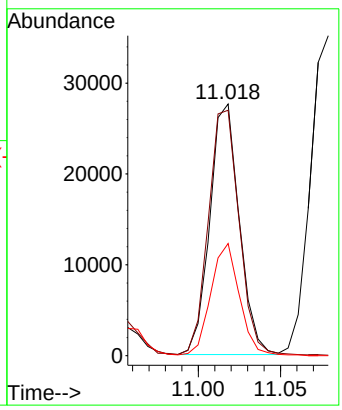


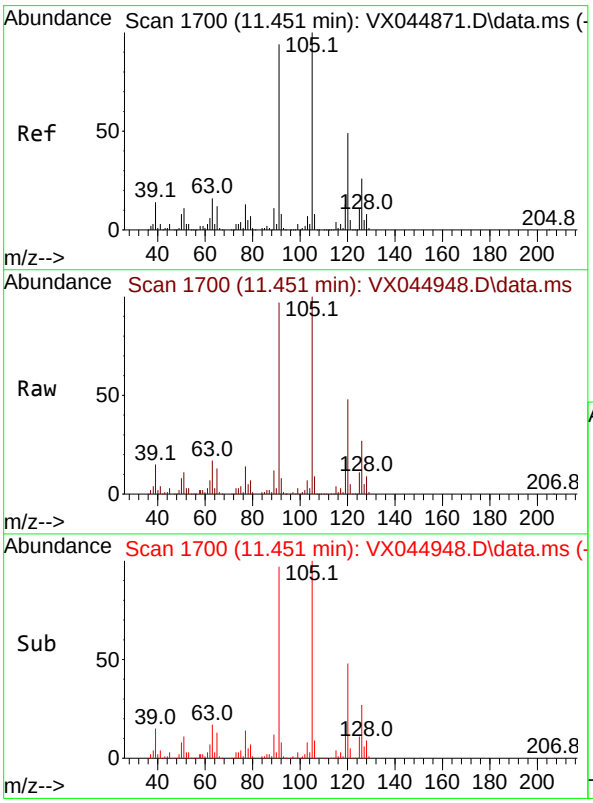
#81
trans-1,4-Dichloro-2-butene
Concen: 50.555 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 34484

Ion	Ratio	Lower	Upper
75	100		
53	103.0	78.0	117.0
89	43.6	36.6	54.8

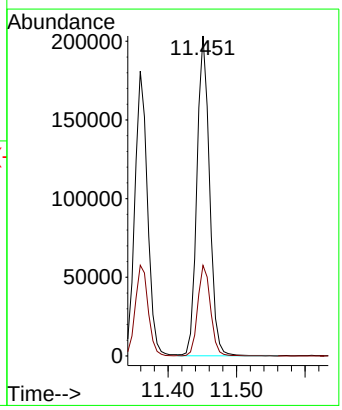


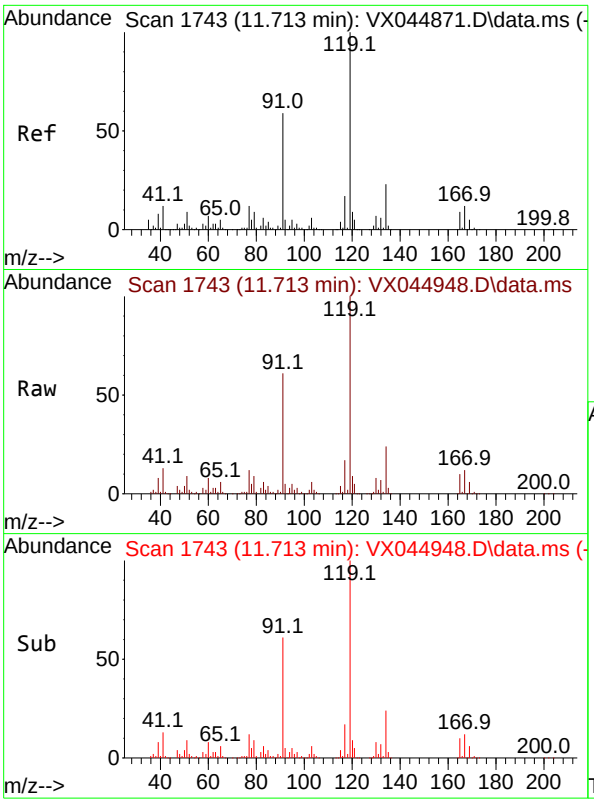


#82
4-Chlorotoluene
Concen: 52.037 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 91 Resp: 260241

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6



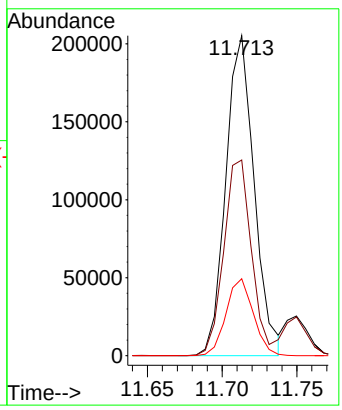


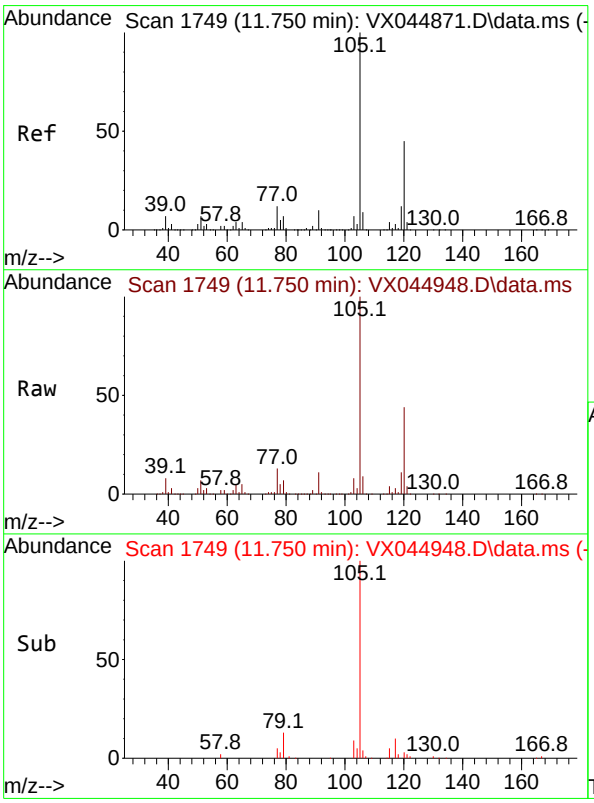
#83
tert-Butylbenzene
Concen: 51.808 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 271023

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.1	87.4
134	23.1	11.5	34.5

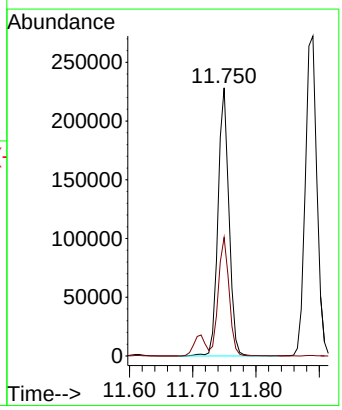


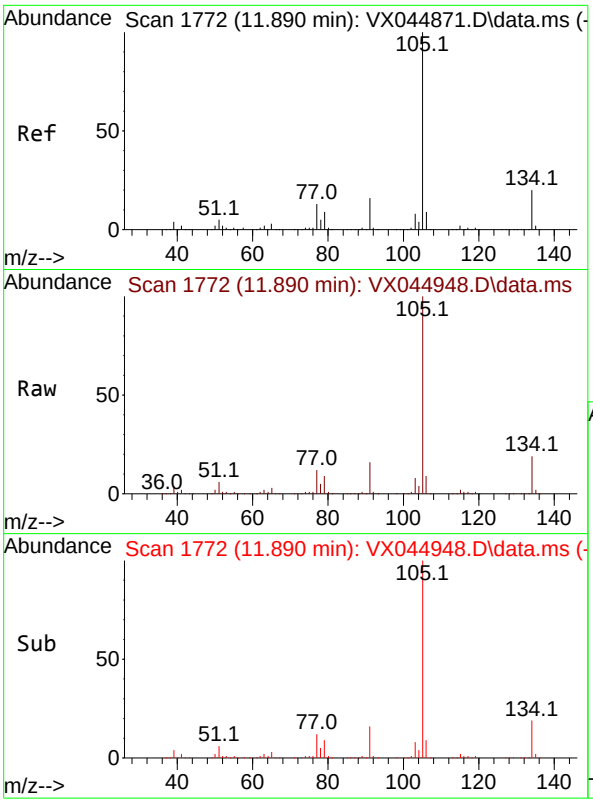


#84
1,2,4-Trimethylbenzene
Concen: 53.576 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:105 Resp: 273444

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.4	67.0



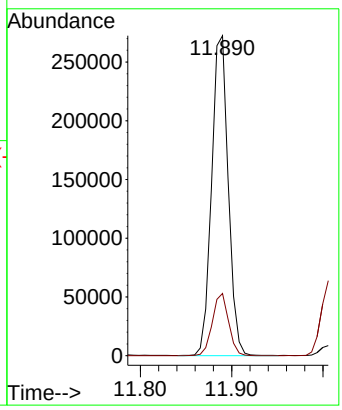


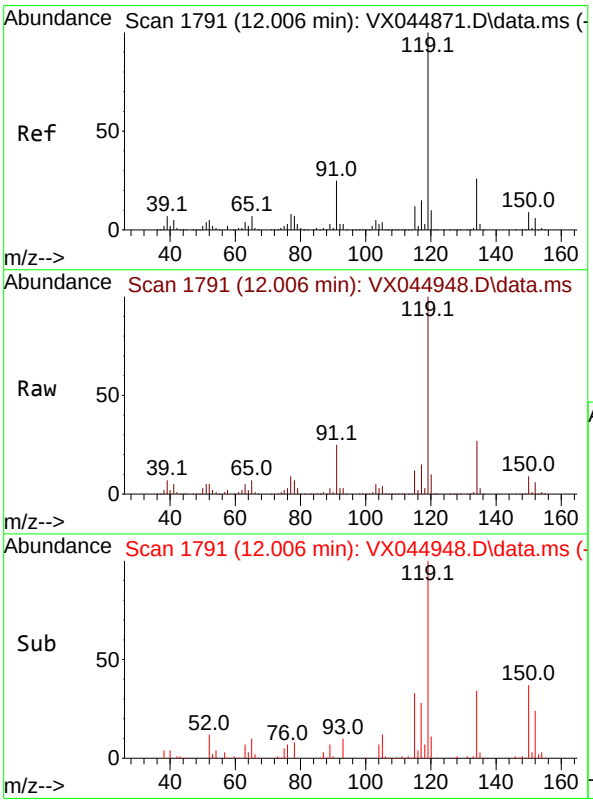
#85
sec-Butylbenzene
Concen: 53.285 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 345172

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3

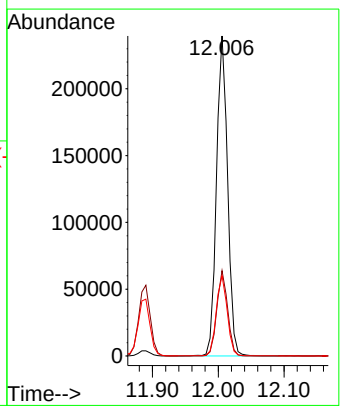


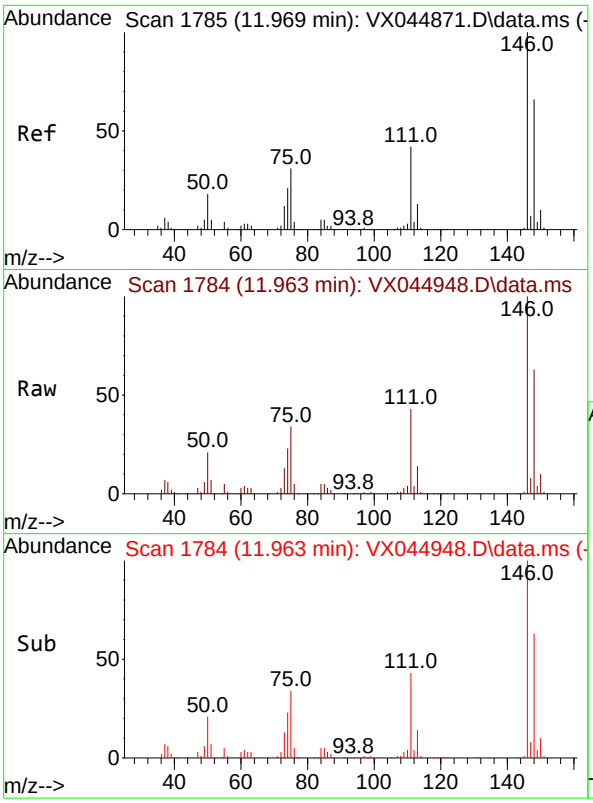


#86
p-Isopropyltoluene
Concen: 53.974 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:119 Resp: 281168

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	24.8	12.1	36.3



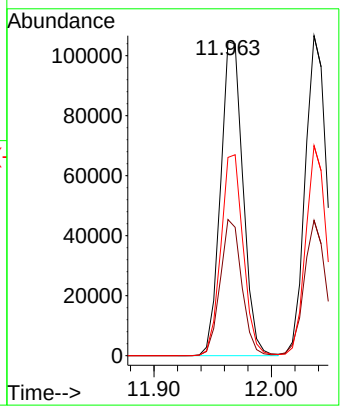


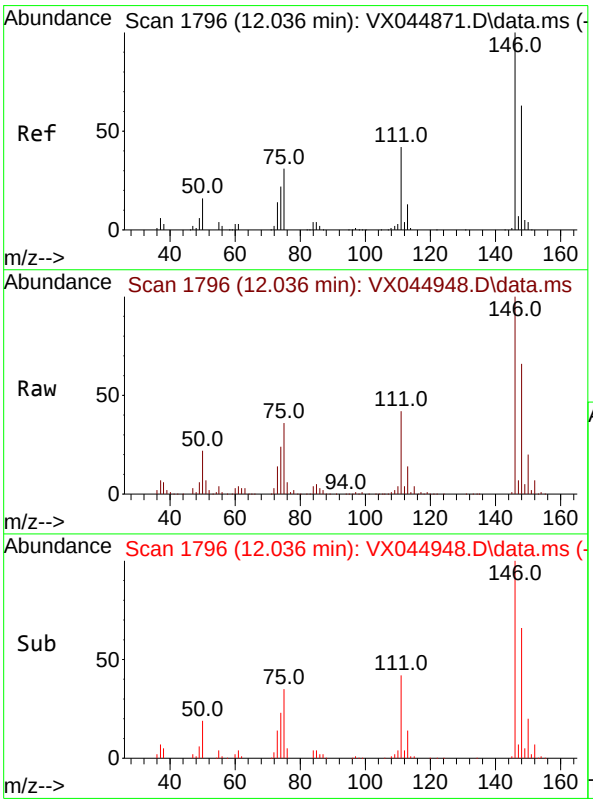
#87
1,3-Dichlorobenzene
Concen: 52.302 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 138952

Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.2	63.6
148	63.8	32.5	97.5

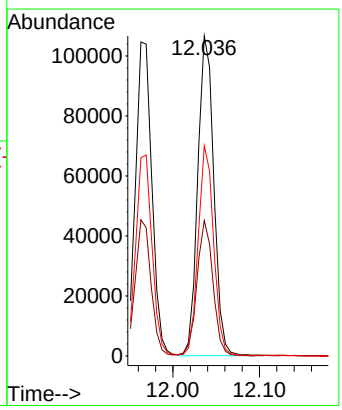


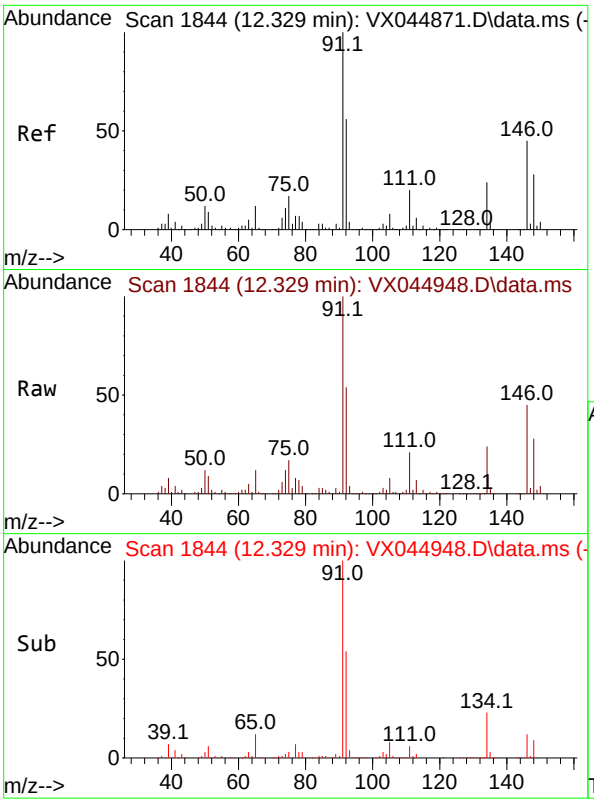


#88
1,4-Dichlorobenzene
Concen: 51.107 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:146 Resp: 137282

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.4	61.3
148	63.2	32.0	96.0



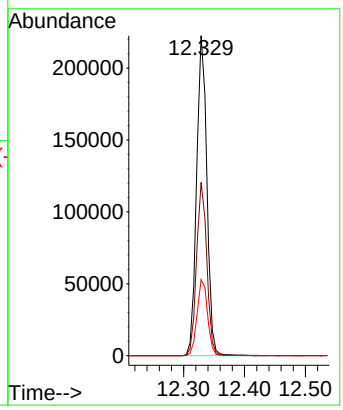


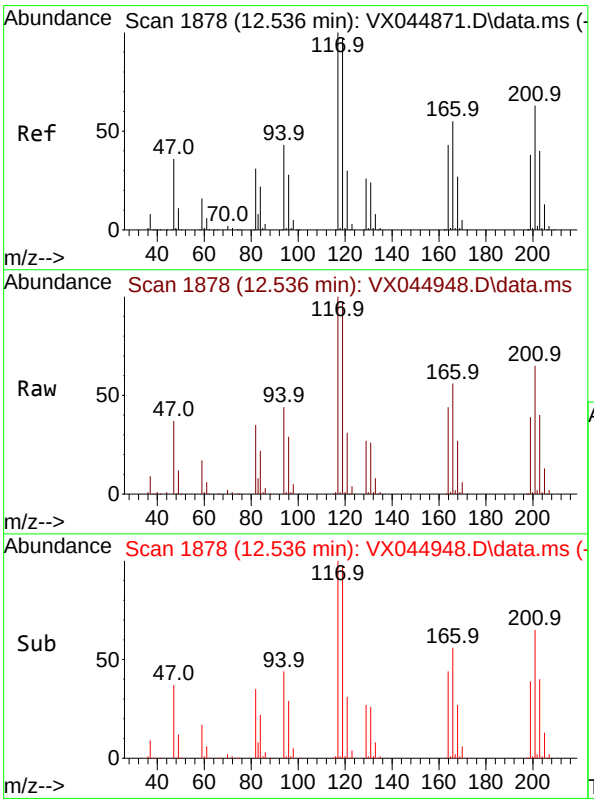
#89
n-Butylbenzene
Concen: 56.406 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 259957

Ion	Ratio	Lower	Upper
91	100		
92	54.0	27.2	81.6
134	24.3	12.1	36.3

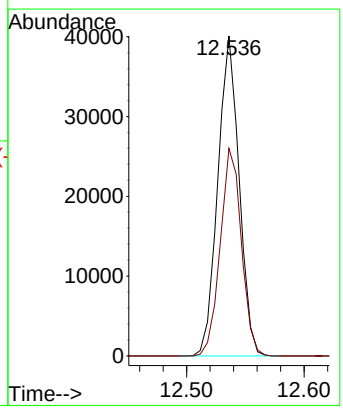


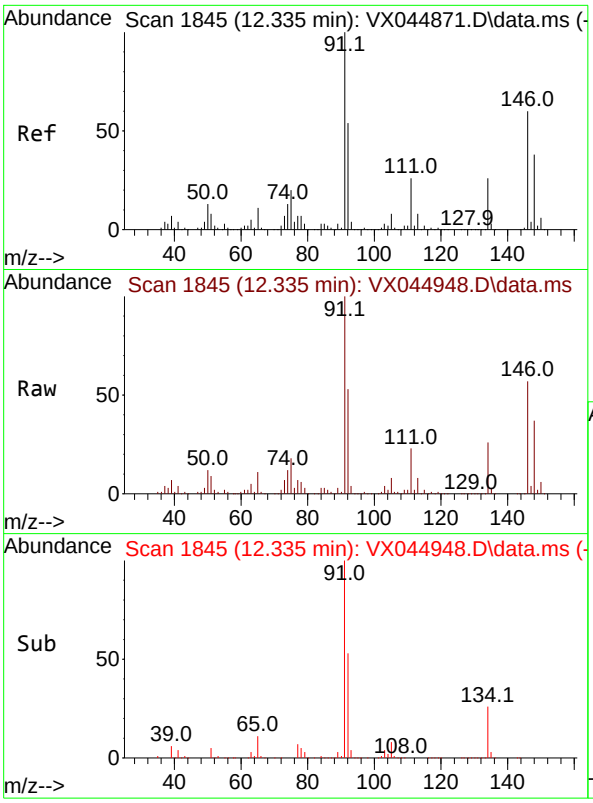


#90
Hexachloroethane
Concen: 51.715 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:117 Resp: 50444

Ion	Ratio	Lower	Upper
117	100		
201	64.6	32.5	97.5



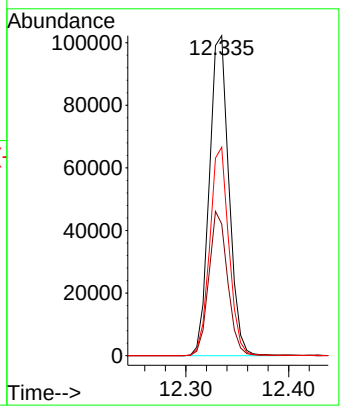


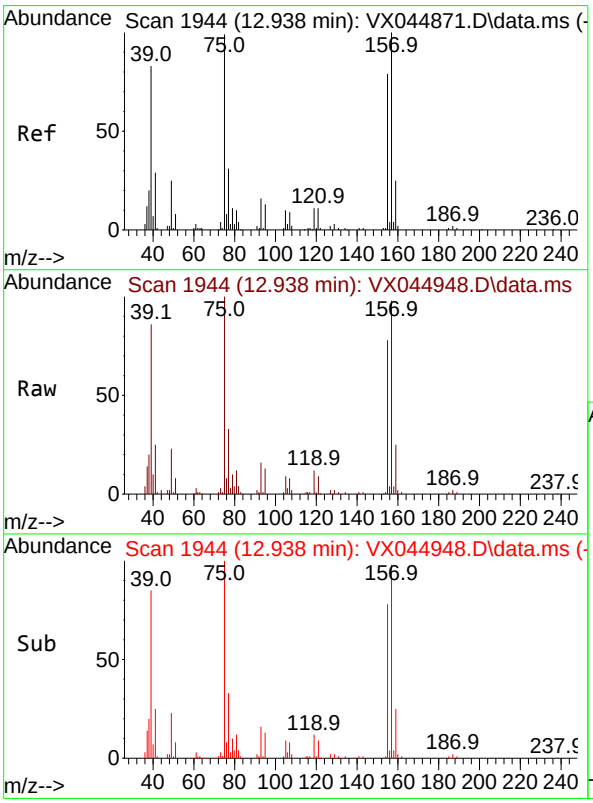
#91
1,2-Dichlorobenzene
Concen: 51.683 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 134948

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.8	65.4
148	63.8	31.9	95.9

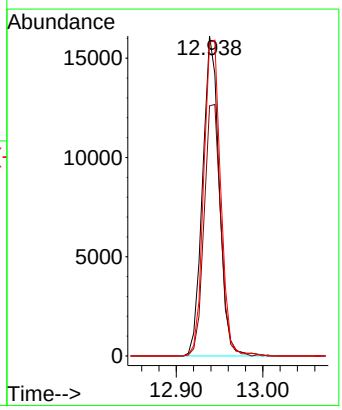


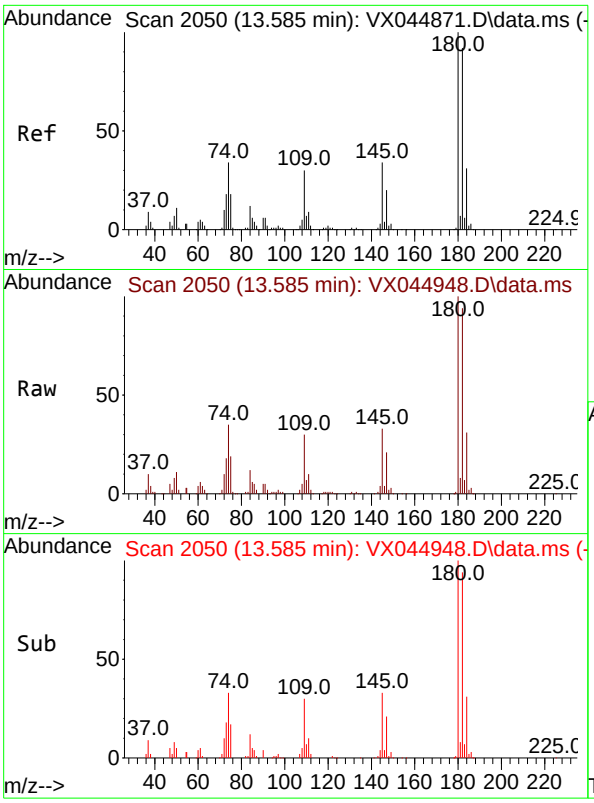


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.715 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion: 75 Resp: 21467

Ion	Ratio	Lower	Upper
75	100		
155	78.7	40.5	121.4
157	100.5	51.4	154.3



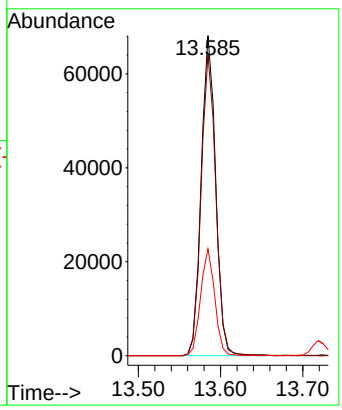


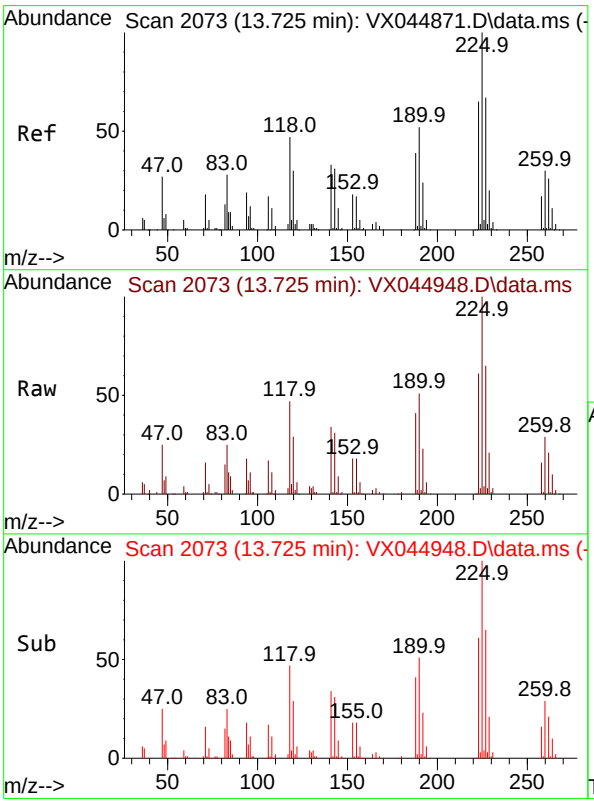
#93
1,2,4-Trichlorobenzene
Concen: 52.814 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 83444

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.6	142.8
145	32.5	16.4	49.1

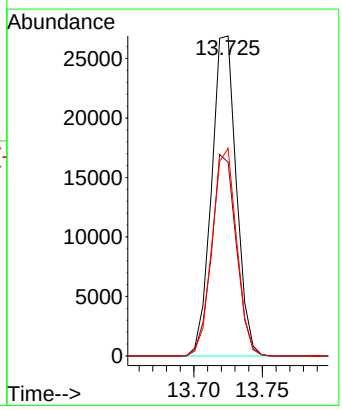


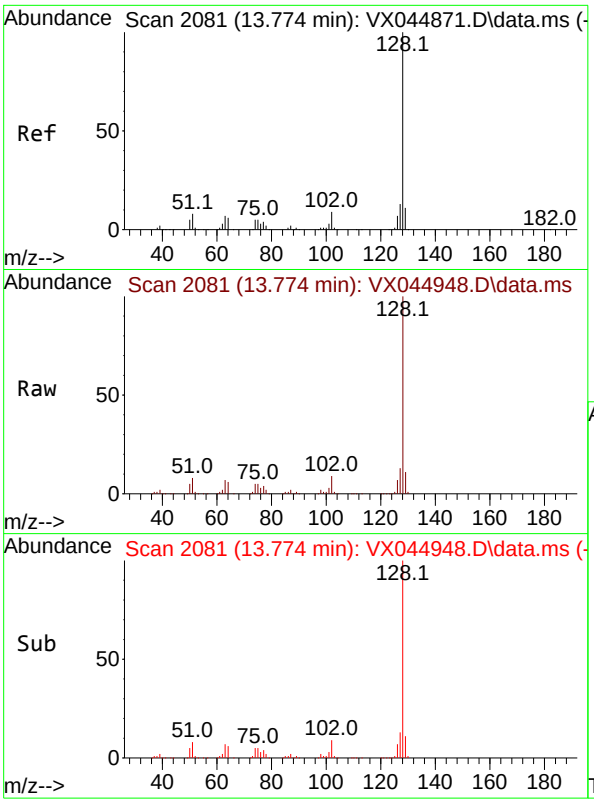


#94
Hexachlorobutadiene
Concen: 53.707 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:225 Resp: 33686

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.2
227	64.5	32.3	96.8



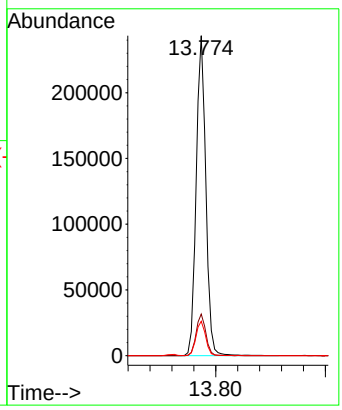


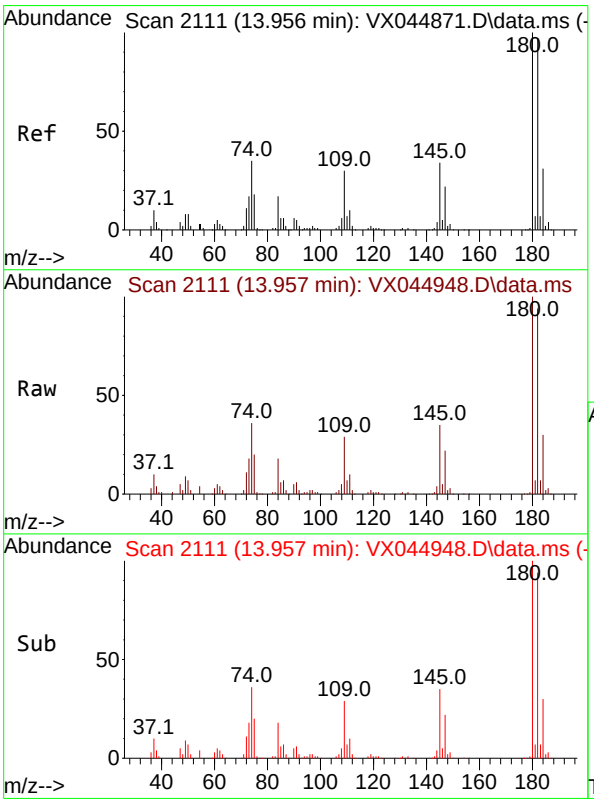
#95
Naphthalene
Concen: 52.263 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 298494

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.1	15.1
129	10.9	8.9	13.3

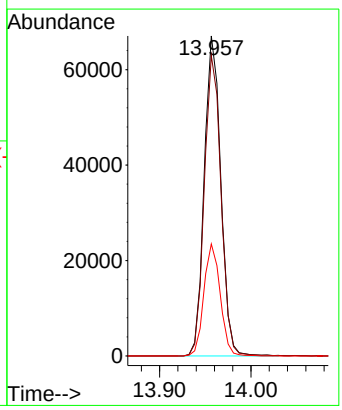




#96
1,2,3-Trichlorobenzene
Concen: 52.918 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044948.D
Acq: 14 Feb 2025 10:04

Tgt Ion:180 Resp: 84247

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.9	143.6
145	34.4	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044951.D
Acq On : 14 Feb 2025 11:14
Operator : JC/MD
Sample : VX0214WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Quant Time: Feb 14 22:11:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	109167	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	195743	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	172020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	79806	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81048	50.718	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.440%			
35) Dibromofluoromethane	5.379	113	65054	51.117	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.240%			
50) Toluene-d8	8.647	98	239351	49.736	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.480%			
62) 4-Bromofluorobenzene	11.079	95	83506	51.472	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	30493	19.916	ug/l	96
3) Chloromethane	1.300	50	35876	19.252	ug/l	98
4) Vinyl Chloride	1.374	62	32947	18.250	ug/l	99
5) Bromomethane	1.593	94	12665	23.444	ug/l	95
6) Chloroethane	1.672	64	18270	24.073	ug/l	98
7) Trichlorofluoromethane	1.880	101	46110	20.197	ug/l	96
8) Diethyl Ether	2.130	74	16287	19.671	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	27143	19.677	ug/l	98
10) Methyl Iodide	2.447	142	35949	20.109	ug/l	98
11) Tert butyl alcohol	2.971	59	29984	101.141	ug/l	98
12) 1,1-Dichloroethene	2.312	96	26636	18.930	ug/l	97
13) Acrolein	2.233	56	32589	106.546	ug/l	98
14) Allyl chloride	2.660	41	48808	19.193	ug/l	97
15) Acrylonitrile	3.062	53	83287	105.222	ug/l	100
16) Acetone	2.380	43	69215	107.742	ug/l	99
17) Carbon Disulfide	2.508	76	65690	17.025	ug/l	97
18) Methyl Acetate	2.703	43	43622	21.518	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	88083	19.675	ug/l	99
20) Methylene Chloride	2.782	84	30381	19.308	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	25933	18.726	ug/l	92
22) Diisopropyl ether	3.757	45	97720	20.312	ug/l	92
23) Vinyl Acetate	3.715	43	389140	99.216	ug/l	98
24) 1,1-Dichloroethane	3.605	63	53879	20.015	ug/l	99
25) 2-Butanone	4.550	43	111260	106.657	ug/l	96
26) 2,2-Dichloropropane	4.464	77	40129	18.798	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	32961	19.815	ug/l	98
28) Bromochloromethane	4.897	49	23212	17.943	ug/l	99
29) Tetrahydrofuran	5.001	42	72346	104.443	ug/l	99
30) Chloroform	5.086	83	53725	20.580	ug/l	98
31) Cyclohexane	5.464	56	46821	18.867	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	43492	19.641	ug/l	98
36) 1,1-Dichloropropene	5.690	75	35991	19.602	ug/l	100
37) Ethyl Acetate	4.714	43	41720	20.428	ug/l	100
38) Carbon Tetrachloride	5.672	117	36299	20.174	ug/l	96
39) Methylcyclohexane	7.372	83	46927	19.769	ug/l	98
40) Benzene	6.031	78	114429	19.958	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044951.D
Acq On : 14 Feb 2025 11:14
Operator : JC/MD
Sample : VX0214WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Quant Time: Feb 14 22:11:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	23705	21.685	ug/l		100
42) 1,2-Dichloroethane	6.080	62	39785	21.773	ug/l		99
43) Isopropyl Acetate	6.336	43	67687	20.524	ug/l		98
44) Trichloroethene	7.123	130	25978	19.823	ug/l		99
45) 1,2-Dichloropropane	7.427	63	28734	20.145	ug/l		96
46) Dibromomethane	7.580	93	20163	20.383	ug/l		98
47) Bromodichloromethane	7.818	83	40024	20.896	ug/l		97
48) Methyl methacrylate	7.690	41	32249	20.739	ug/l		98
49) 1,4-Dioxane	7.659	88	14784	443.128	ug/l		97
51) 4-Methyl-2-Pentanone	8.567	43	225966	112.703	ug/l		97
52) Toluene	8.714	92	69748	20.427	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	37169	19.176	ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	43416	20.090	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	27886	21.245	ug/l		98
56) Ethyl methacrylate	9.116	69	42444	20.021	ug/l		98
57) 1,3-Dichloropropane	9.305	76	47815	20.820	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	107373	103.151	ug/l		100
59) 2-Hexanone	9.427	43	166655	115.365	ug/l		97
60) Dibromochloromethane	9.518	129	29087	20.721	ug/l		98
61) 1,2-Dibromoethane	9.604	107	28155	21.163	ug/l		97
64) Tetrachloroethene	9.268	164	22728	20.951	ug/l		96
65) Chlorobenzene	10.079	112	74635	20.200	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	23206	19.514	ug/l		95
67) Ethyl Benzene	10.189	91	131698	20.199	ug/l		99
68) m/p-Xylenes	10.299	106	98883	41.113	ug/l		100
69) o-Xylene	10.640	106	48694	20.177	ug/l		100
70) Styrene	10.652	104	81730	21.020	ug/l		100
71) Bromoform	10.799	173	18416	20.750	ug/l	#	100
73) Isopropylbenzene	10.957	105	124187	19.326	ug/l		99
74) N-amyl acetate	10.841	43	57217	19.677	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	44116	19.979	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	46051	26.026	ug/l		85
77) Bromobenzene	11.195	156	29893	20.519	ug/l		93
78) n-propylbenzene	11.299	91	144703	19.510	ug/l		100
79) 2-Chlorotoluene	11.360	91	88678	19.454	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	104223	19.987	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	11634	16.914	ug/l		91
82) 4-Chlorotoluene	11.451	91	99533	19.736	ug/l		99
83) tert-Butylbenzene	11.713	119	104653	19.838	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	104819	20.366	ug/l		99
85) sec-Butylbenzene	11.890	105	131498	20.130	ug/l		98
86) p-Isopropyltoluene	12.006	119	106908	20.351	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	52788	19.704	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	53421	19.722	ug/l		98
89) n-Butylbenzene	12.329	91	94562	20.347	ug/l		99
90) Hexachloroethane	12.536	117	18131	18.433	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	54507	20.701	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8250	20.471	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	31211	19.589	ug/l		98
94) Hexachlorobutadiene	13.719	225	12661	20.018	ug/l		99
95) Naphthalene	13.774	128	114238	19.835	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	32268	20.099	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044951.D
Acq On : 14 Feb 2025 11:14
Operator : JC/MD
Sample : VX0214WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Quant Time: Feb 14 22:11:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

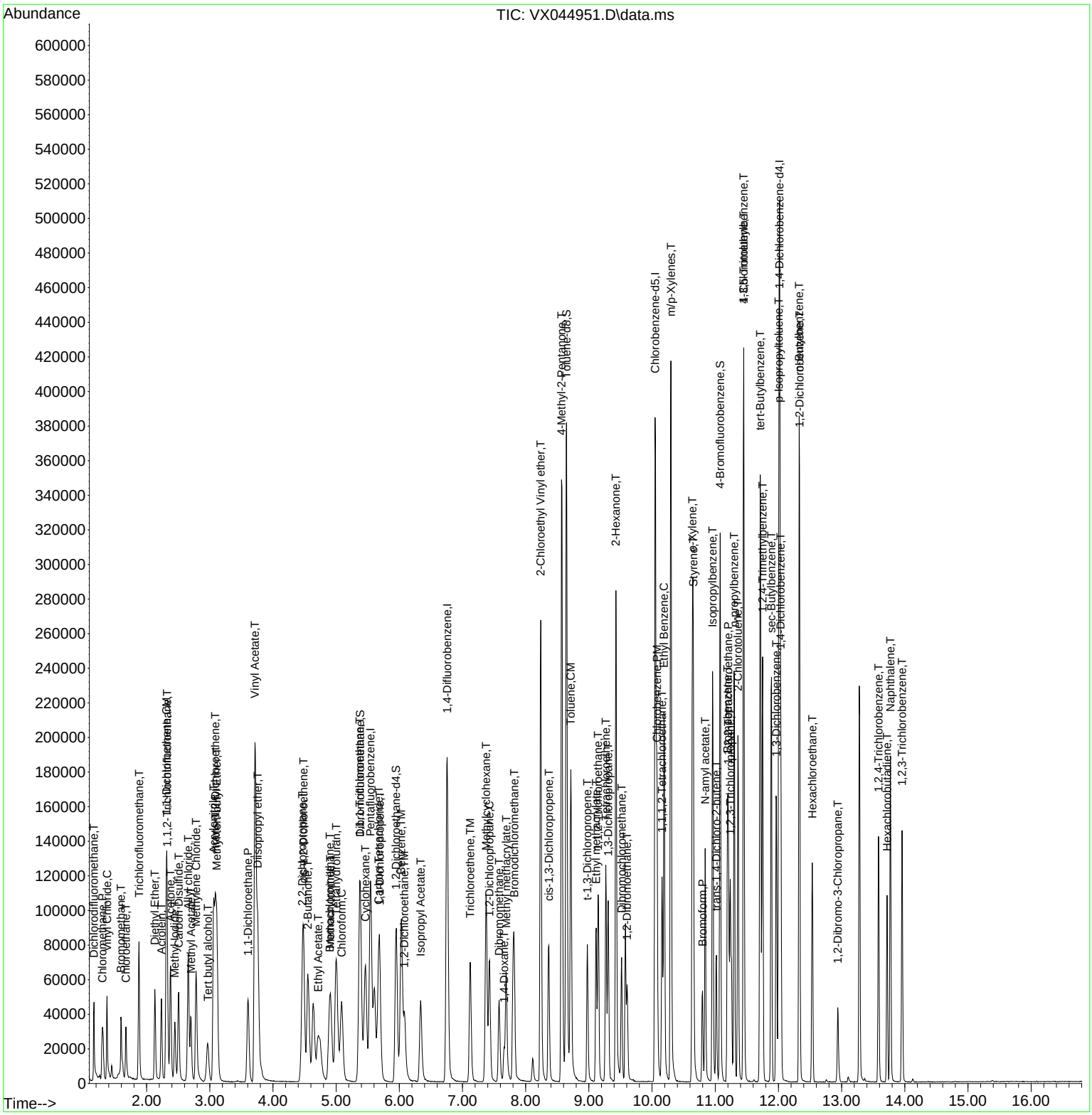
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

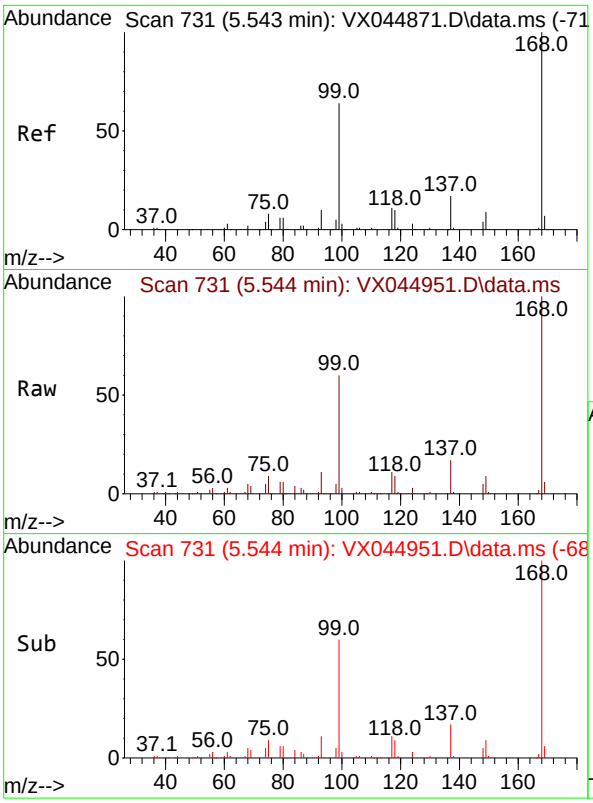
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044951.D
Acq On : 14 Feb 2025 11:14
Operator : JC/MD
Sample : VX0214WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Quant Time: Feb 14 22:11:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



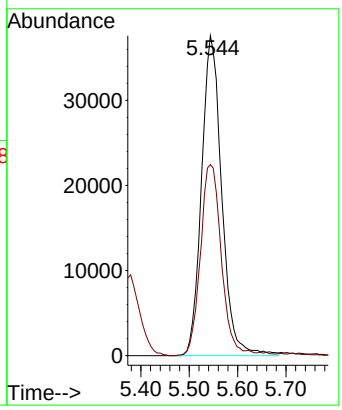


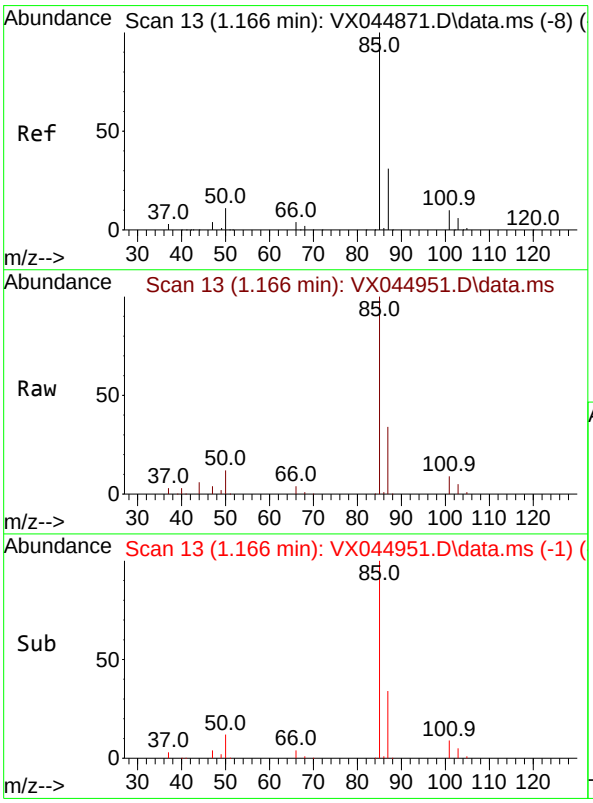
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:168 Resp: 109167

Ion	Ratio	Lower	Upper
168	100		
99	59.5	51.2	76.8

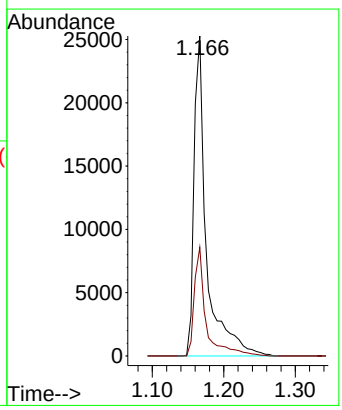


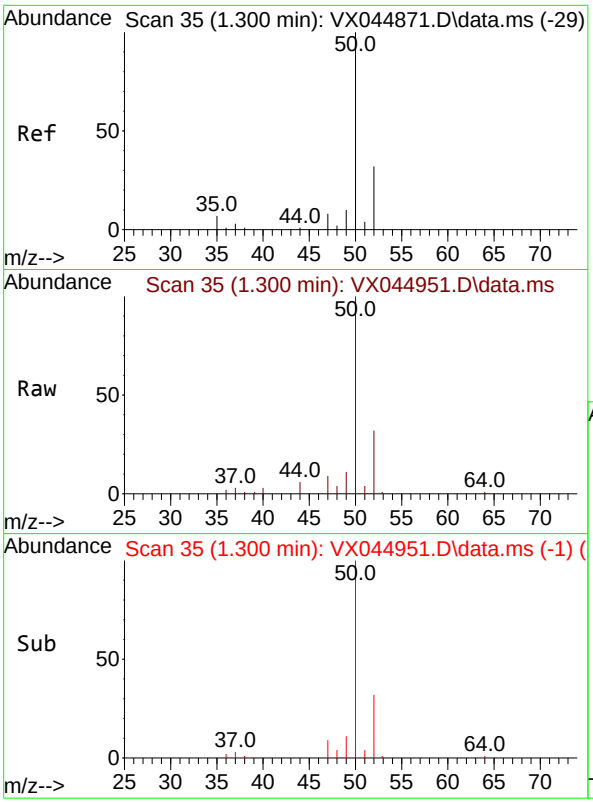


#2
Dichlorodifluoromethane
Concen: 19.916 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 85 Resp: 30493

Ion	Ratio	Lower	Upper
85	100		
87	33.9	15.8	47.3



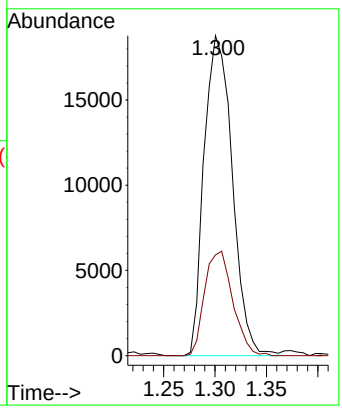


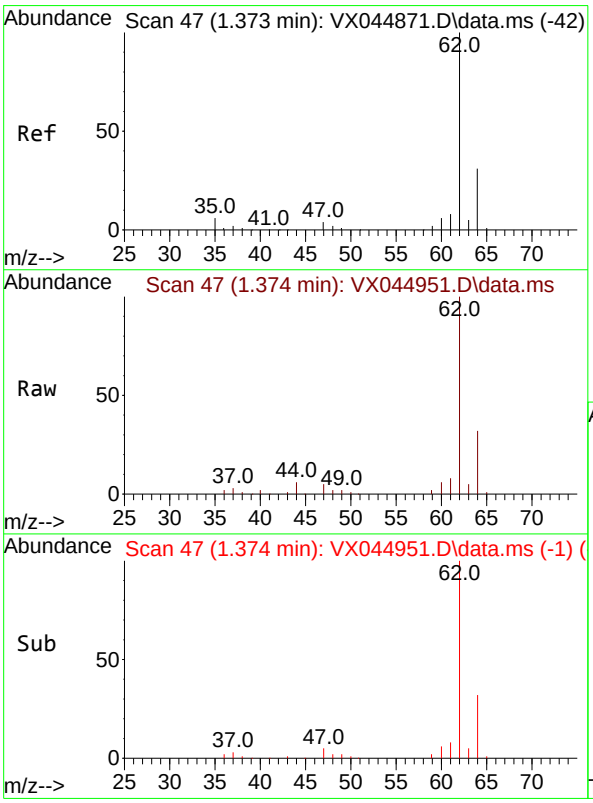
#3
Chloromethane
Concen: 19.252 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 50 Resp: 35876

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.9	38.9

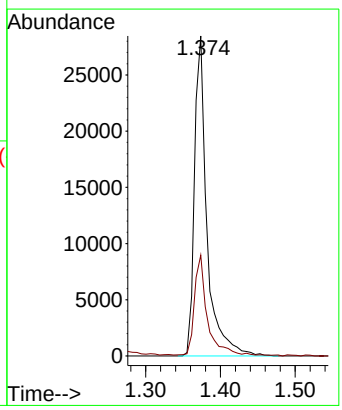


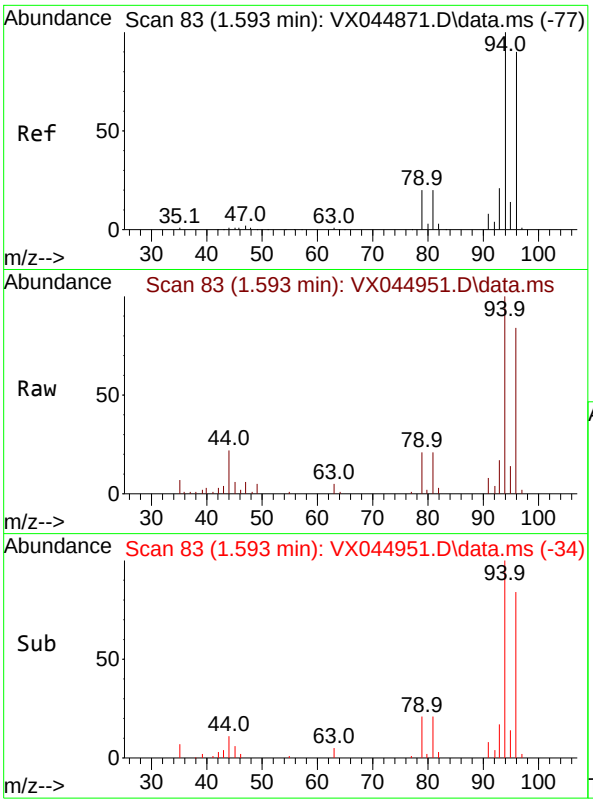


#4
Vinyl Chloride
Concen: 18.250 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 62 Resp: 32947

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.4	38.0



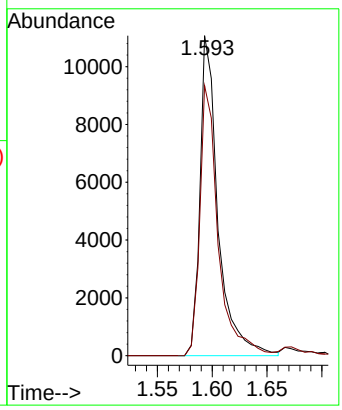


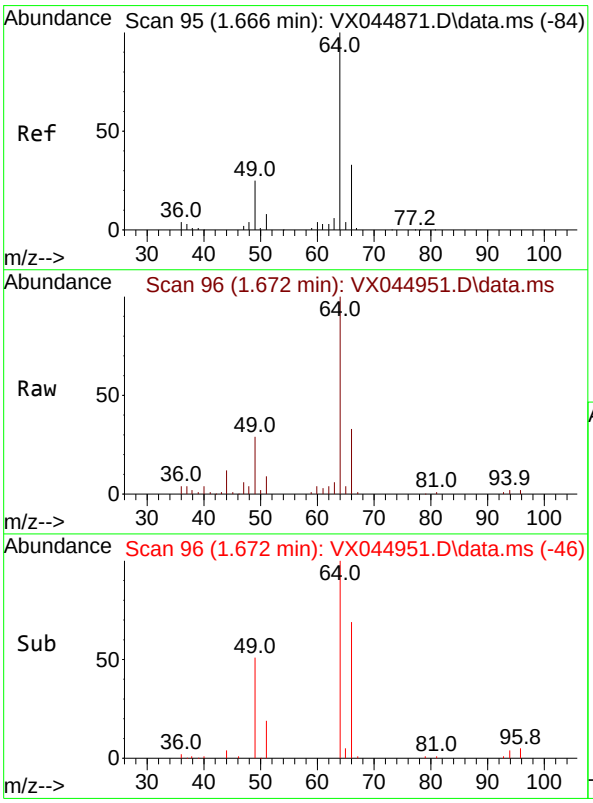
#5
Bromomethane
Concen: 23.444 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 94 Resp: 12665

Ion	Ratio	Lower	Upper
94	100		
96	84.3	71.6	107.4

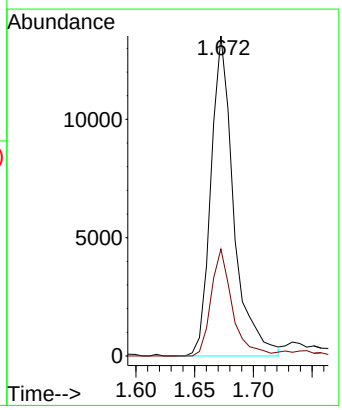


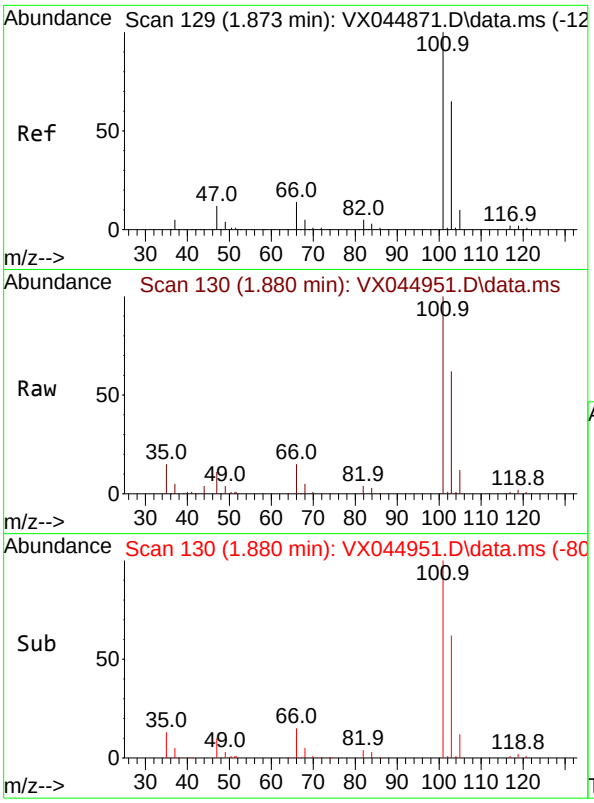


#6
Chloroethane
Concen: 24.073 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 64 Resp: 18270

Ion	Ratio	Lower	Upper
64	100		
66	33.4	25.9	38.9



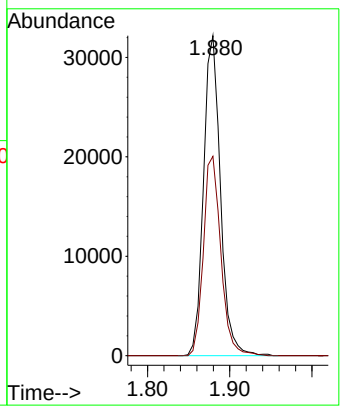


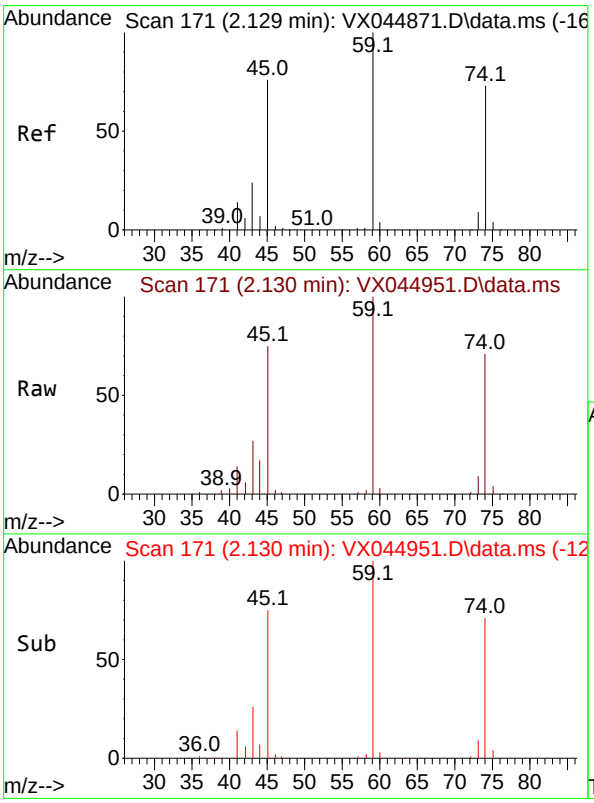
#7
Trichlorofluoromethane
Concen: 20.197 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:101 Resp: 46110

Ion	Ratio	Lower	Upper
101	100		
103	62.3	52.4	78.6

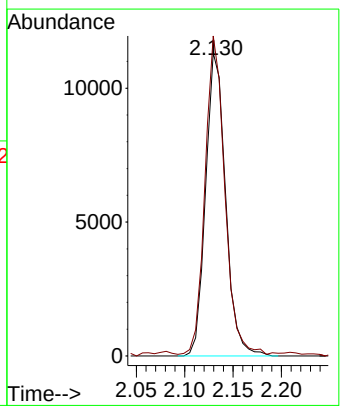


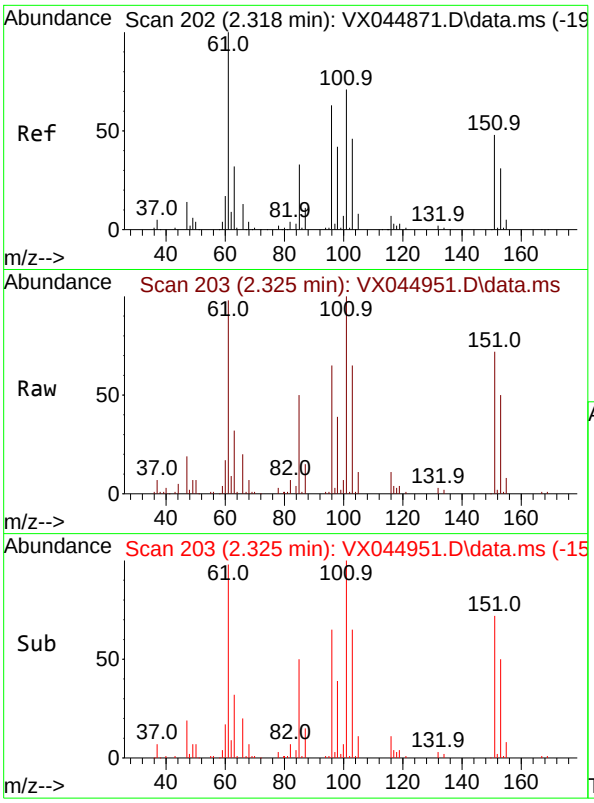


#8
Diethyl Ether
Concen: 19.671 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 74 Resp: 16287

Ion	Ratio	Lower	Upper
74	100		
45	103.4	51.1	153.4



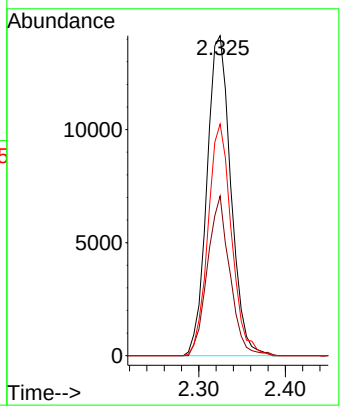


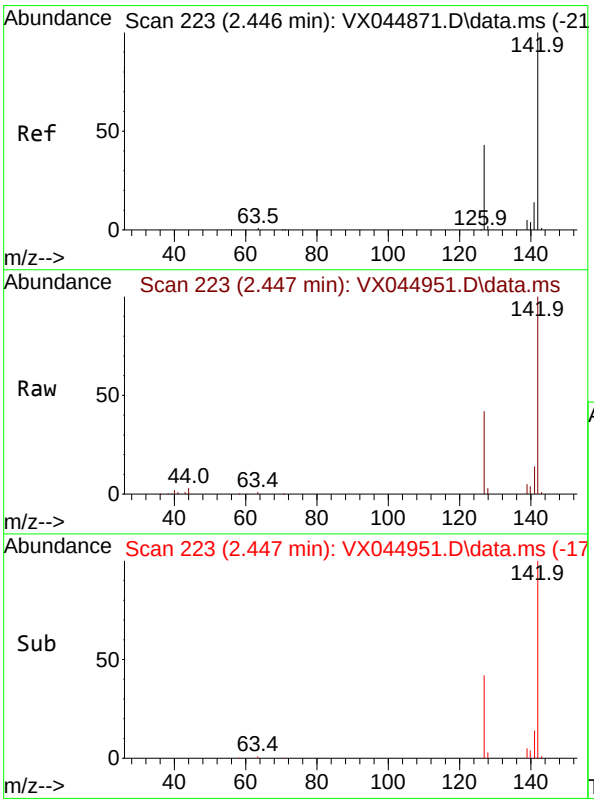
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.677 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:101 Resp: 27143

Ion	Ratio	Lower	Upper
101	100		
85	46.9	35.7	53.5
151	71.4	56.0	84.0

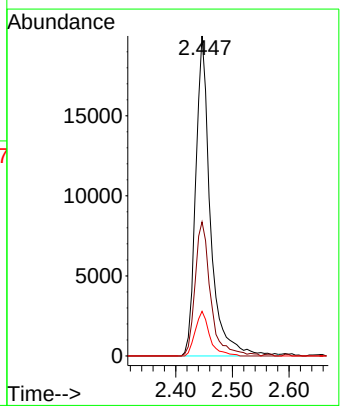


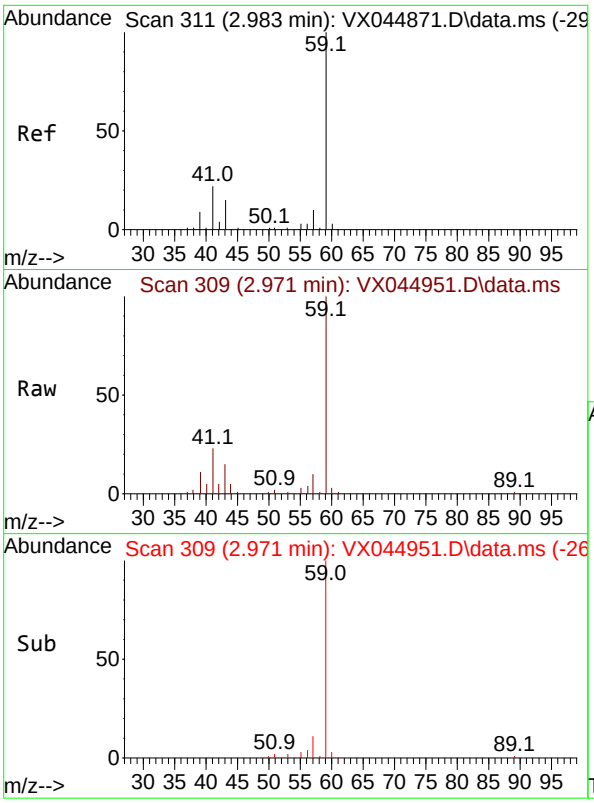


#10
Methyl Iodide
Concen: 20.109 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:142 Resp: 35949

Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.3	51.5
141	13.8	11.4	17.2



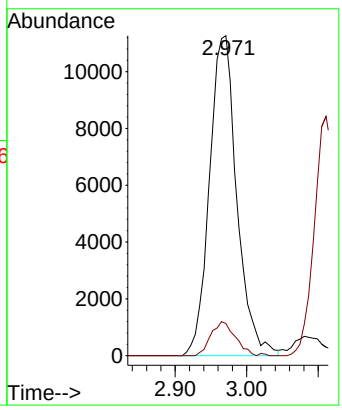


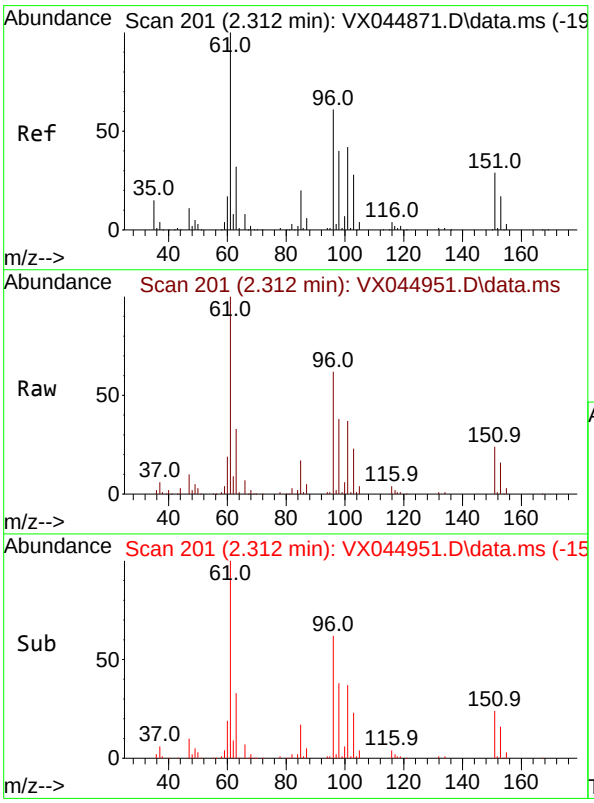
#11
Tert butyl alcohol
Concen: 101.141 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 59 Resp: 29984

Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.1	12.1

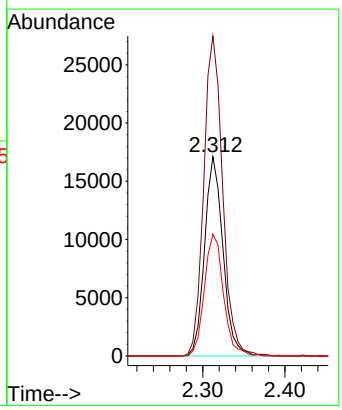


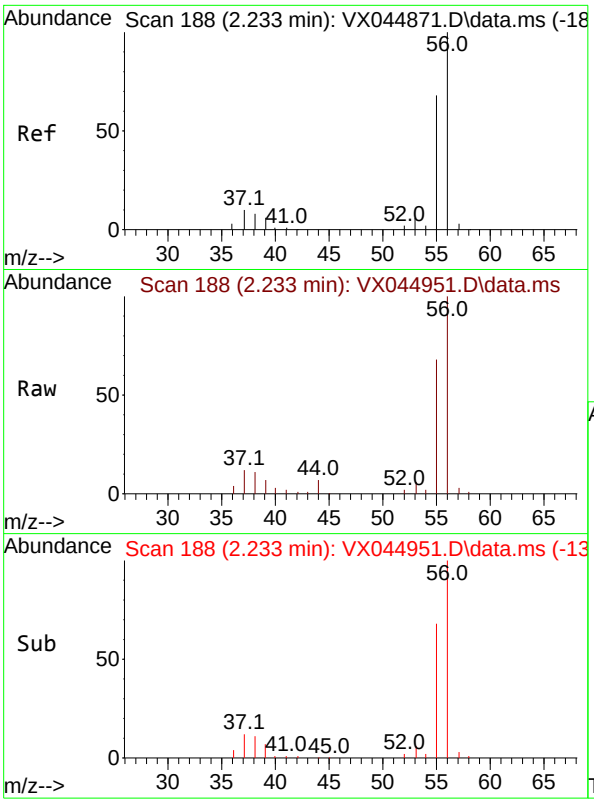


#12
1,1-Dichloroethene
Concen: 18.930 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 96 Resp: 26636

Ion	Ratio	Lower	Upper
96	100		
61	160.5	130.2	195.4
98	61.0	52.2	78.4



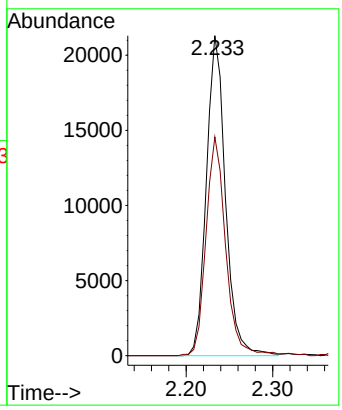


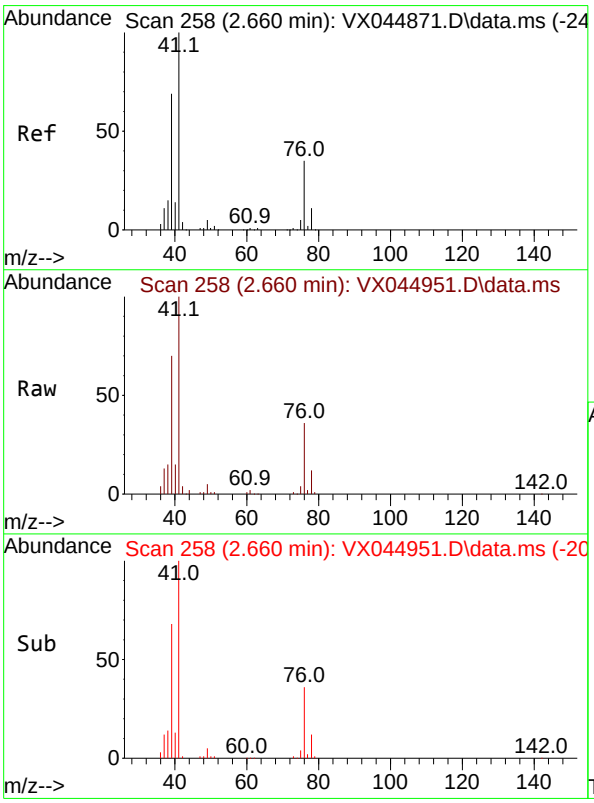
#13
Acrolein
Concen: 106.546 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 56 Resp: 32589

Ion	Ratio	Lower	Upper
56	100		
55	70.9	55.7	83.5

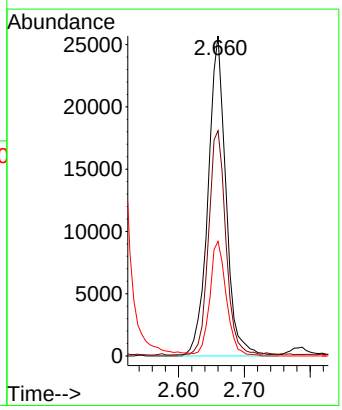


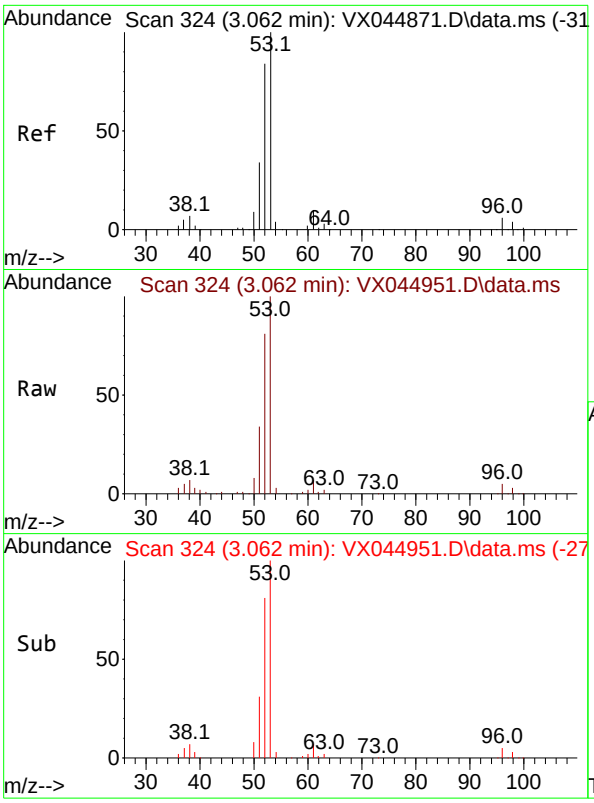


#14
Allyl chloride
Concen: 19.193 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 41 Resp: 48808

Ion	Ratio	Lower	Upper
41	100		
39	67.1	51.4	77.2
76	32.9	27.0	40.4



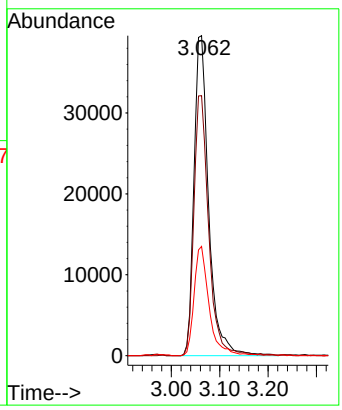


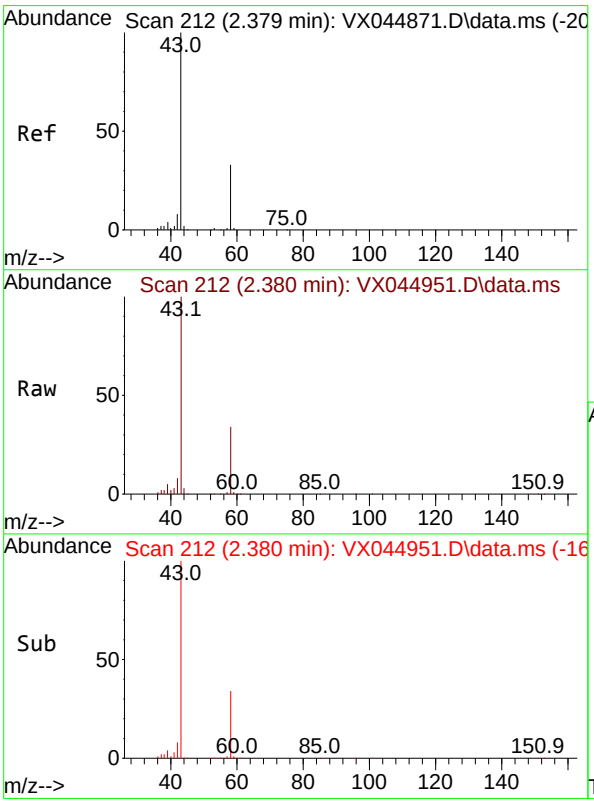
#15
Acrylonitrile
Concen: 105.222 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 53 Resp: 83287

Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.0	97.6
51	35.1	28.0	42.0

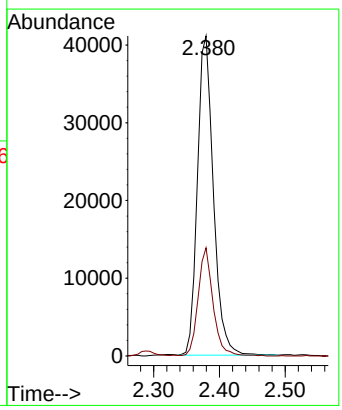


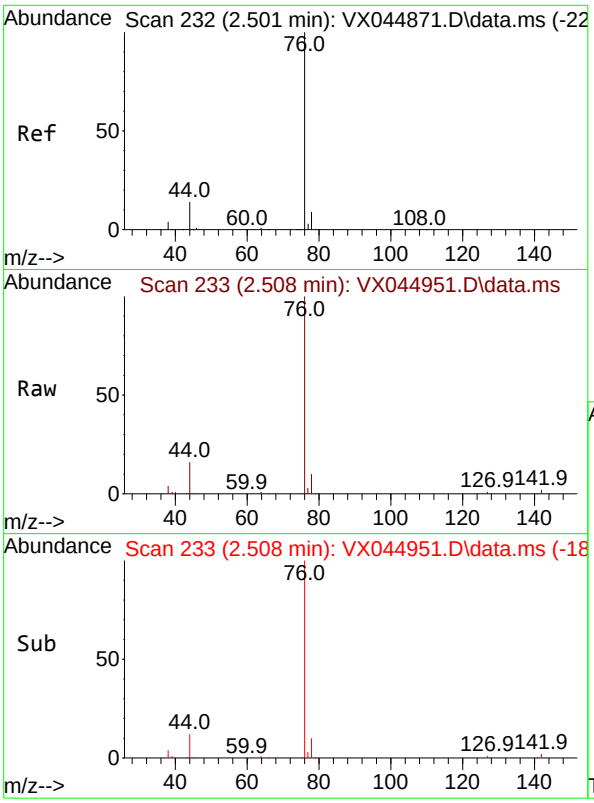


#16
Acetone
Concen: 107.742 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 69215

Ion	Ratio	Lower	Upper
43	100		
58	33.9	26.5	39.7



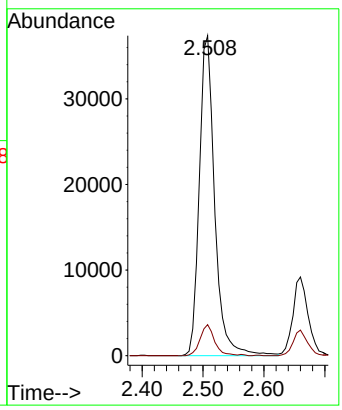


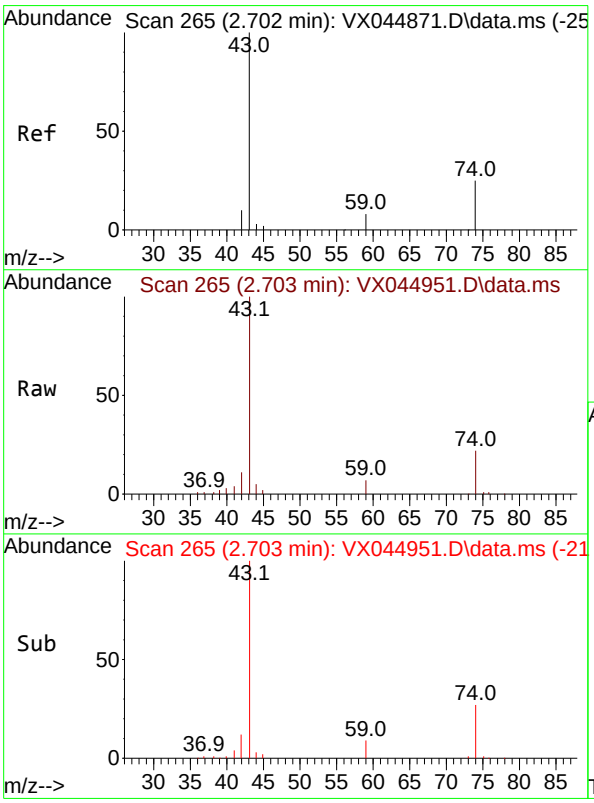
#17
Carbon Disulfide
Concen: 17.025 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 76 Resp: 65690

Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.0	10.4

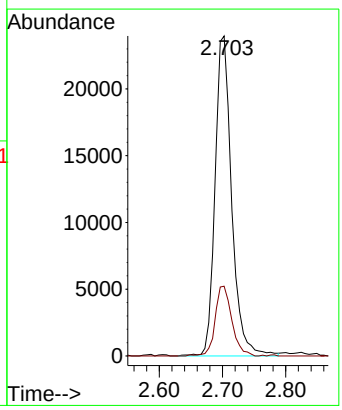


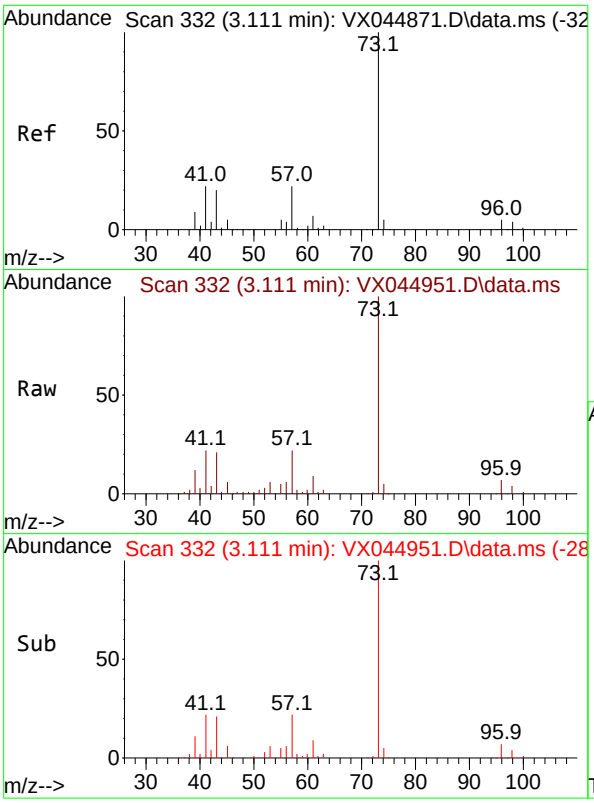


#18
Methyl Acetate
Concen: 21.518 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 43622

Ion	Ratio	Lower	Upper
43	100		
74	21.9	18.9	28.3



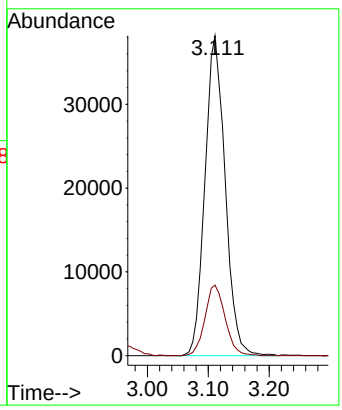


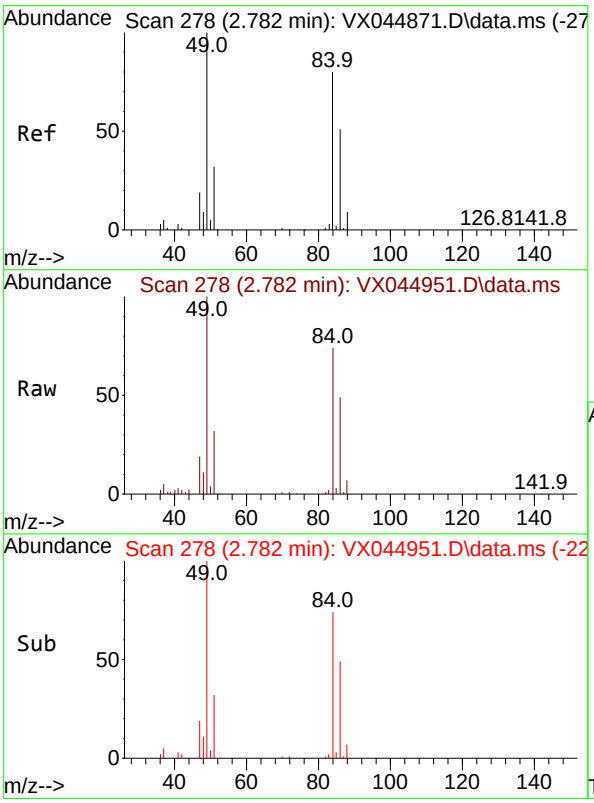
#19
Methyl tert-butyl Ether
Concen: 19.675 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 73 Resp: 88083

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.9	26.9

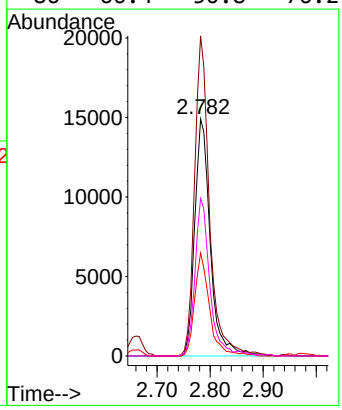


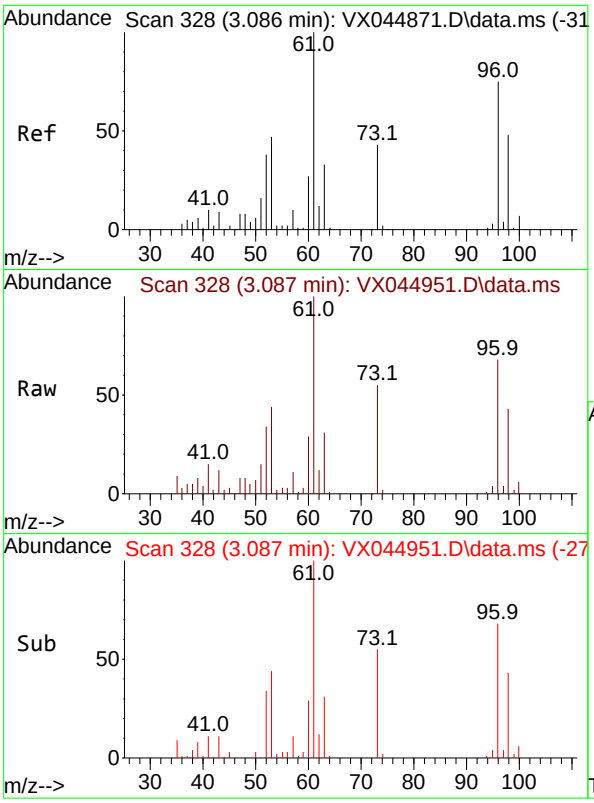


#20
Methylene Chloride
Concen: 19.308 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 84 Resp: 30381

Ion	Ratio	Lower	Upper
84	100		
49	135.1	100.1	150.1
51	43.5	31.7	47.5
86	66.4	50.8	76.2



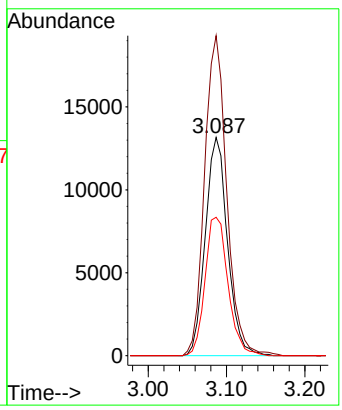


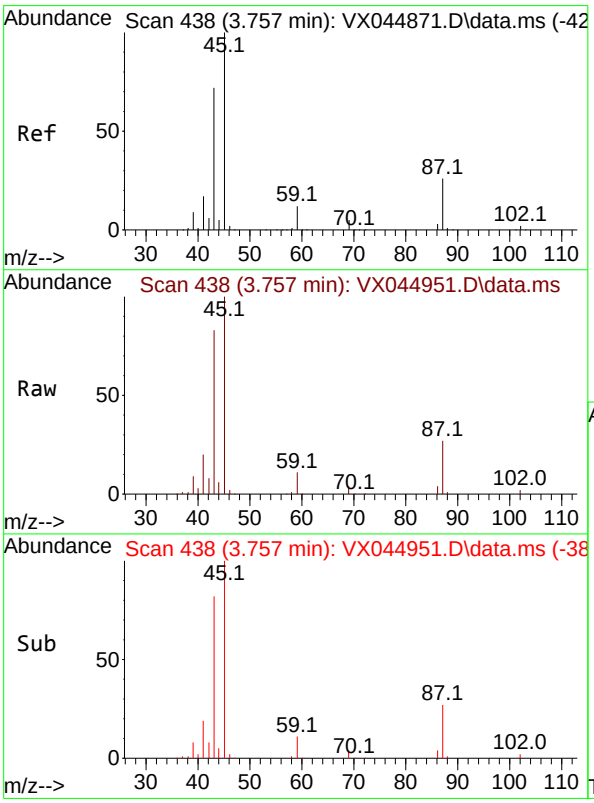
#21
trans-1,2-Dichloroethene
Concen: 18.726 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 96 Resp: 25933

Ion	Ratio	Lower	Upper
96	100		
61	146.6	106.0	159.0
98	63.4	50.6	76.0

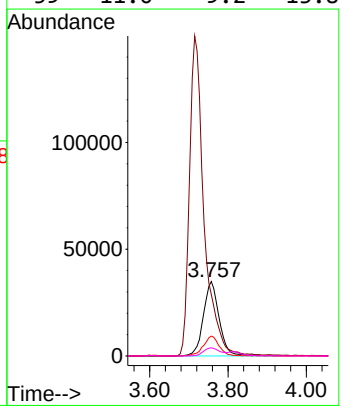


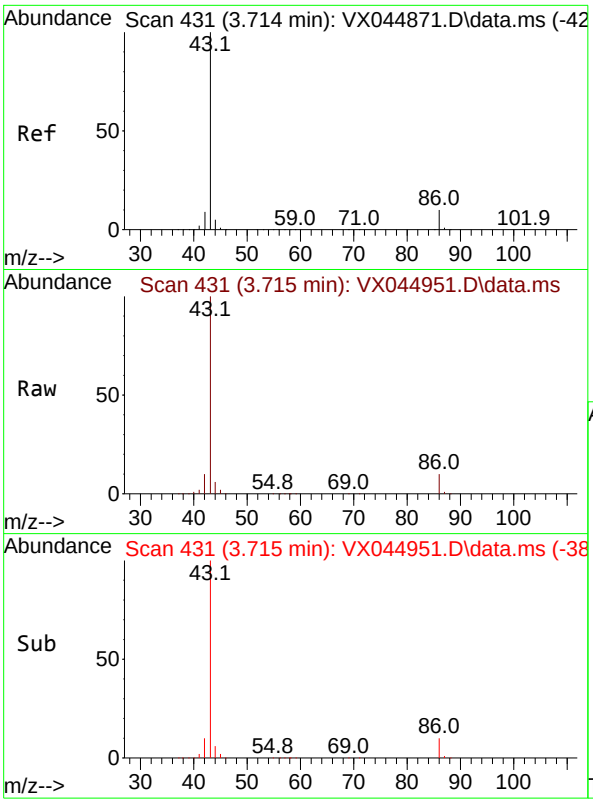


#22
Diisopropyl ether
Concen: 20.312 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 45 Resp: 97720

Ion	Ratio	Lower	Upper
45	100		
43	82.0	58.0	87.0
87	26.6	20.7	31.1
59	11.0	9.2	13.8



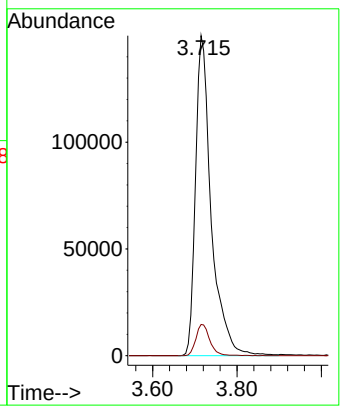


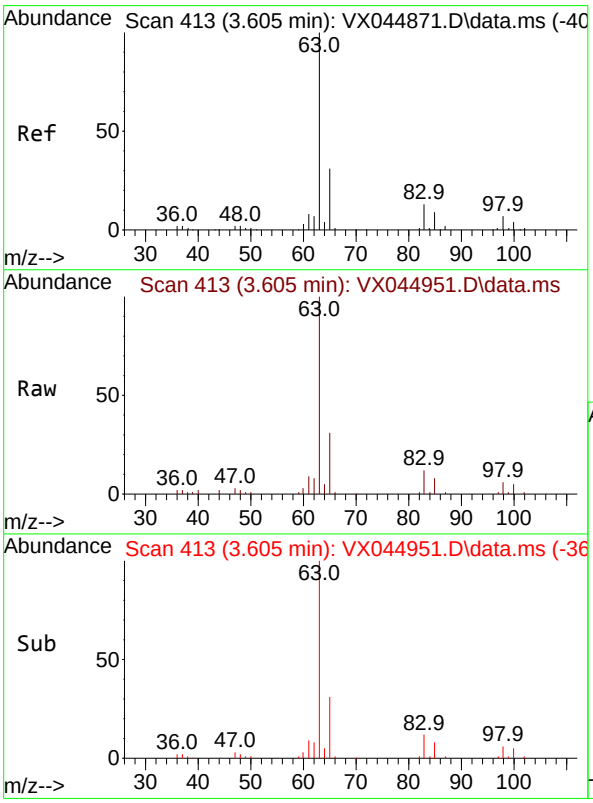
#23
Vinyl Acetate
Concen: 99.216 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 43 Resp: 389140

Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.3	12.5

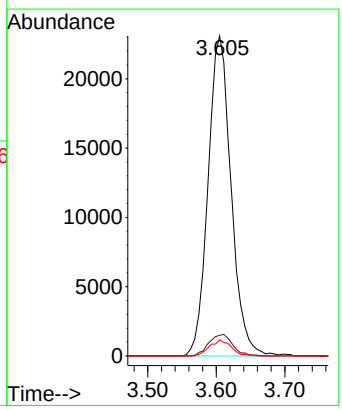


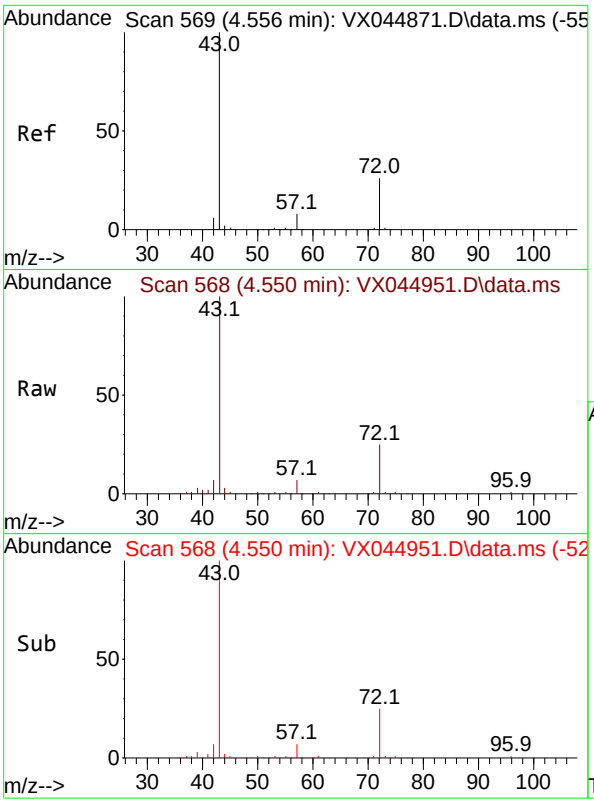


#24
1,1-Dichloroethane
Concen: 20.015 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 63 Resp: 53879

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.9
100	5.1	2.1	6.5



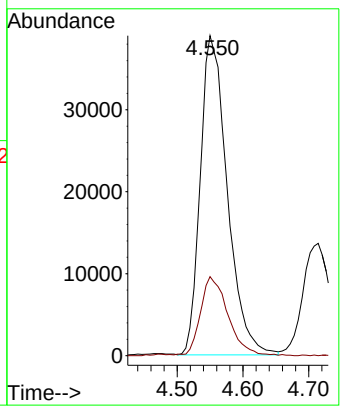


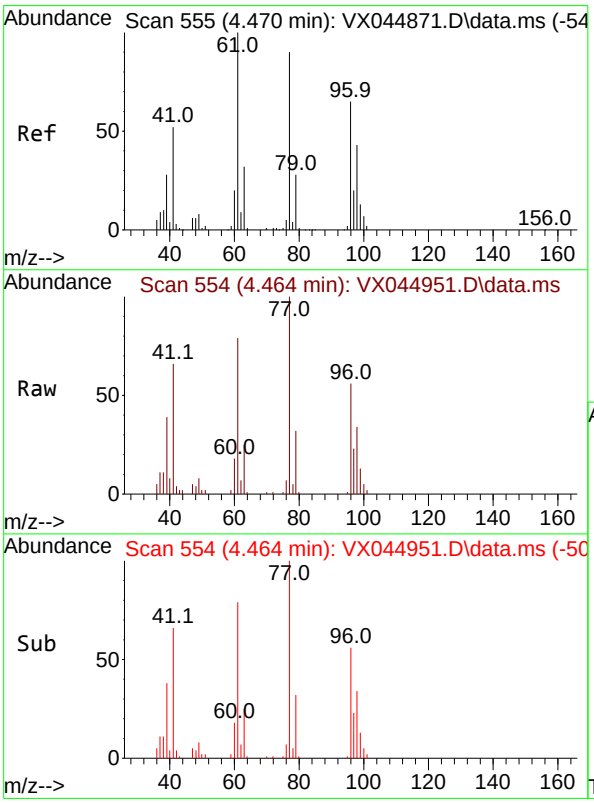
#25
2-Butanone
Concen: 106.657 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 43 Resp: 111260

Ion	Ratio	Lower	Upper
43	100		
72	24.6	21.2	31.8

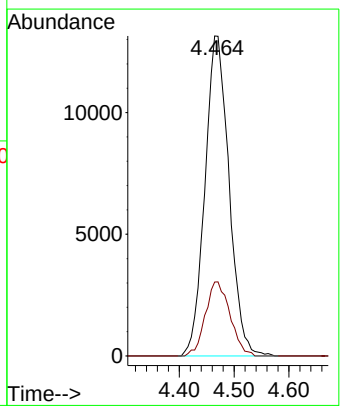


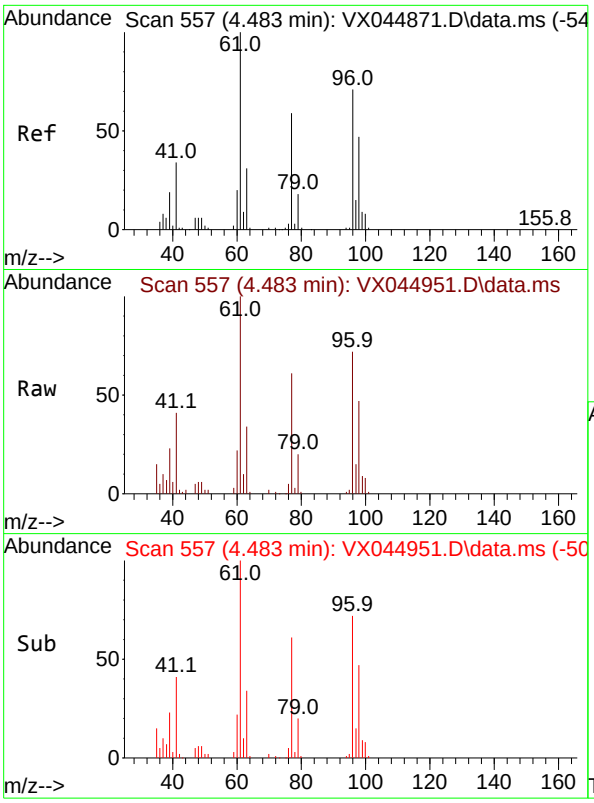


#26
2,2-Dichloropropane
Concen: 18.798 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 77 Resp: 40129

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.8	35.3



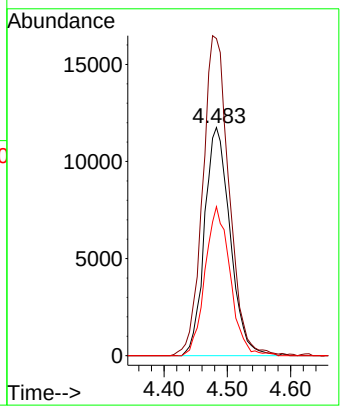


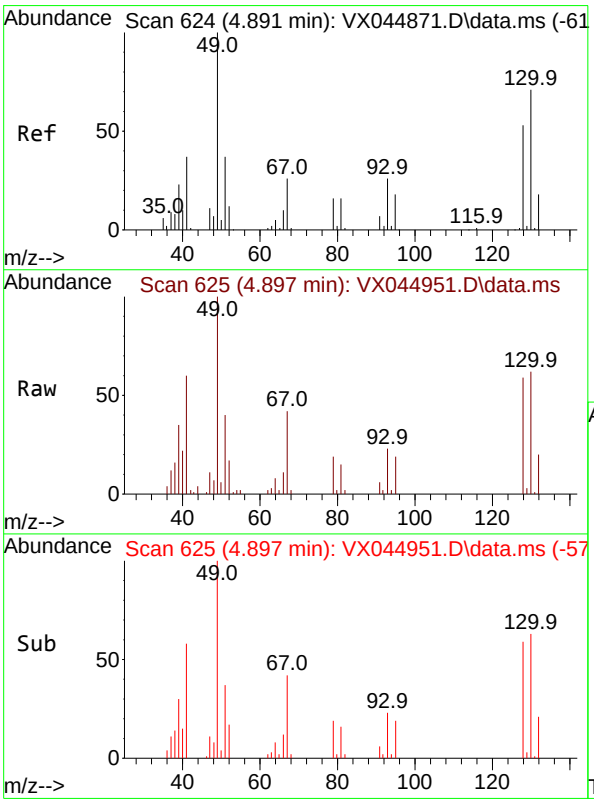
#27
cis-1,2-Dichloroethene
Concen: 19.815 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 96 Resp: 32961

Ion	Ratio	Lower	Upper
96	100		
61	144.9	0.0	294.0
98	64.2	0.0	131.2

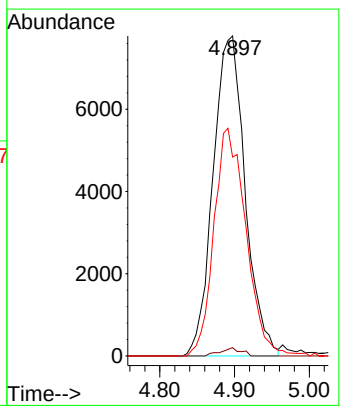


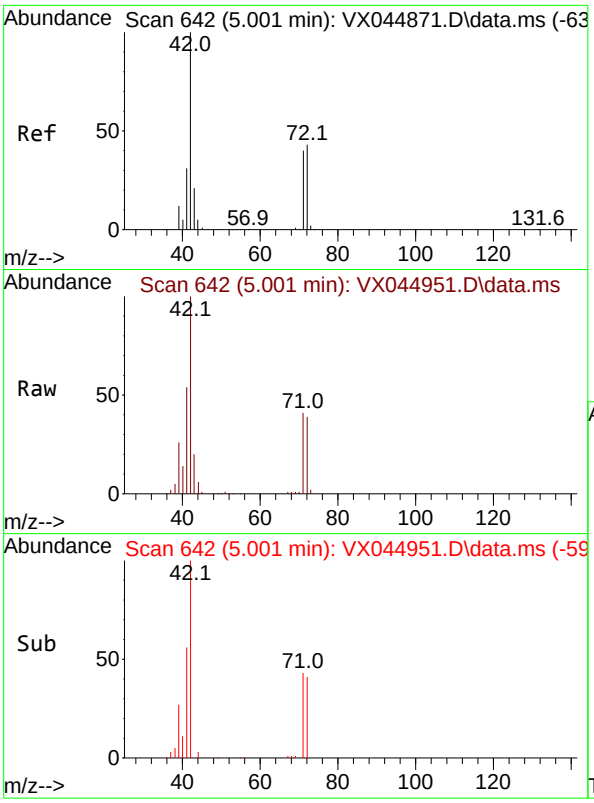


#28
Bromochloromethane
Concen: 17.943 ug/l
RT: 4.897 min Scan# 625
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 49 Resp: 23212

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.6
130	71.4	56.7	85.1



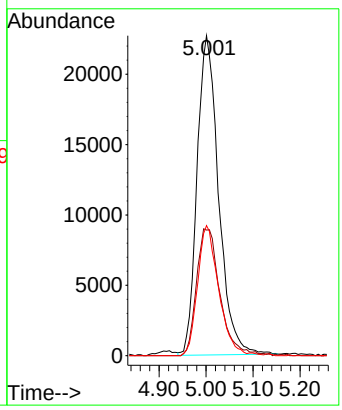


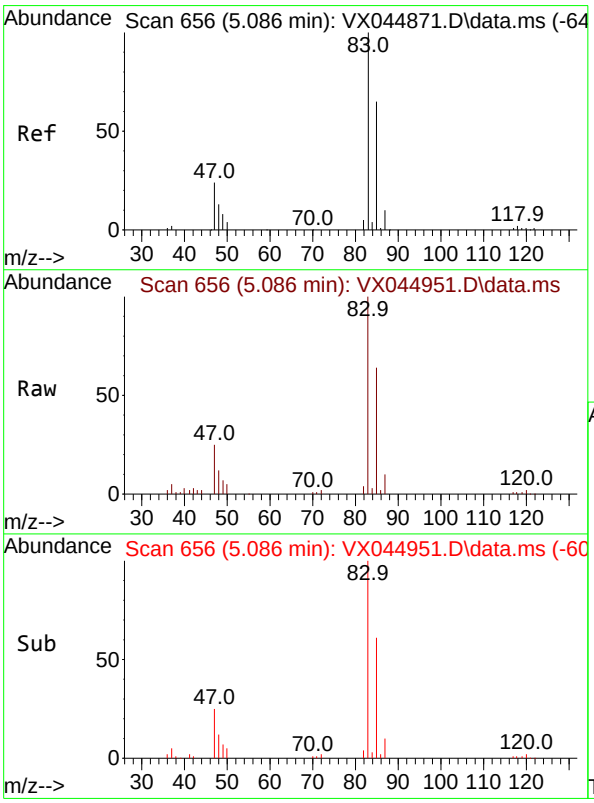
#29
Tetrahydrofuran
Concen: 104.443 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 42 Resp: 72346

Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.0	52.4
71	40.0	32.6	48.8

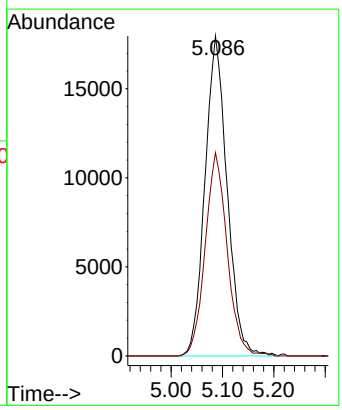


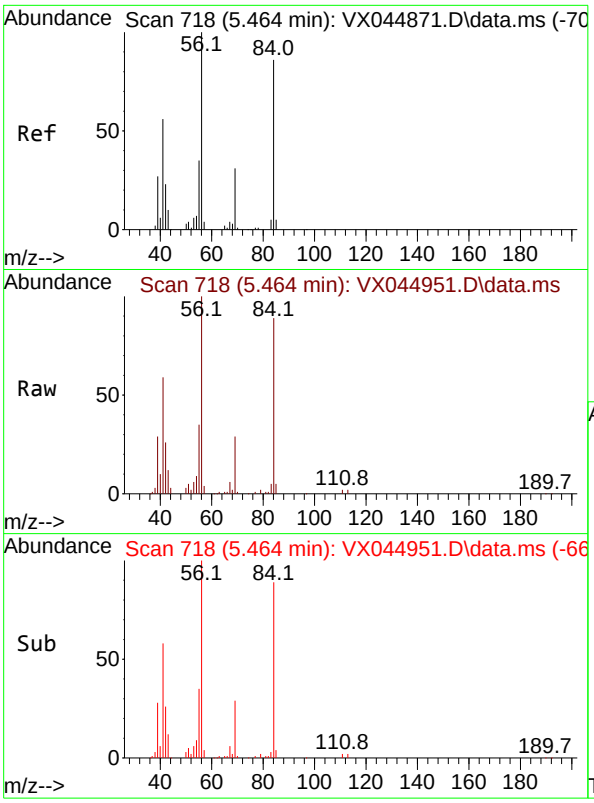


#30
Chloroform
Concen: 20.580 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 83 Resp: 53725

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.1	78.1



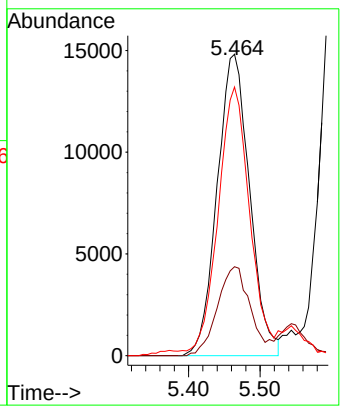


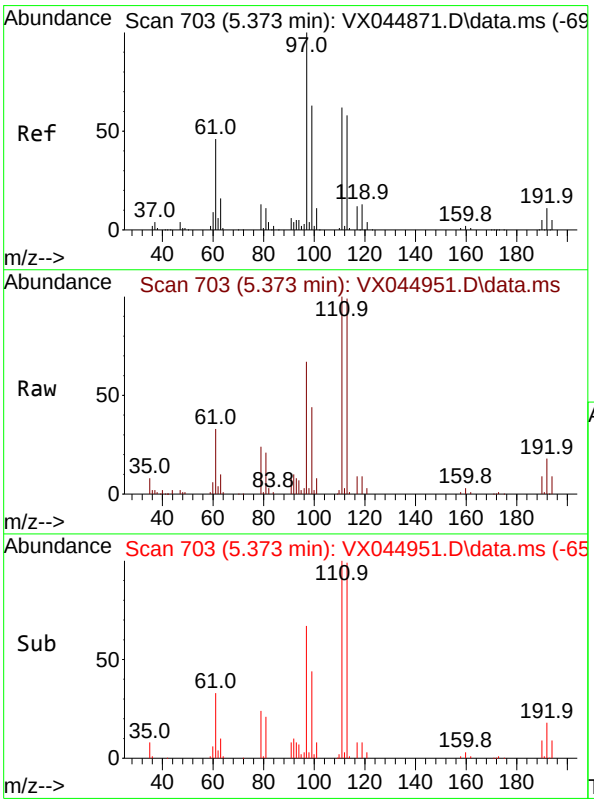
#31
Cyclohexane
Concen: 18.867 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 56 Resp: 46821

Ion	Ratio	Lower	Upper
56	100		
69	29.5	24.4	36.6
84	87.6	69.0	103.6

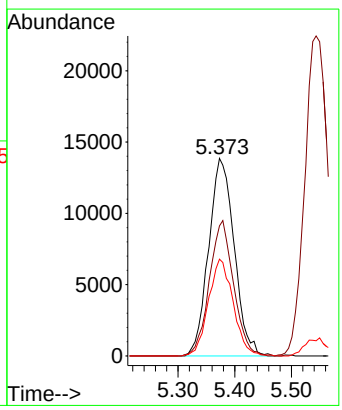


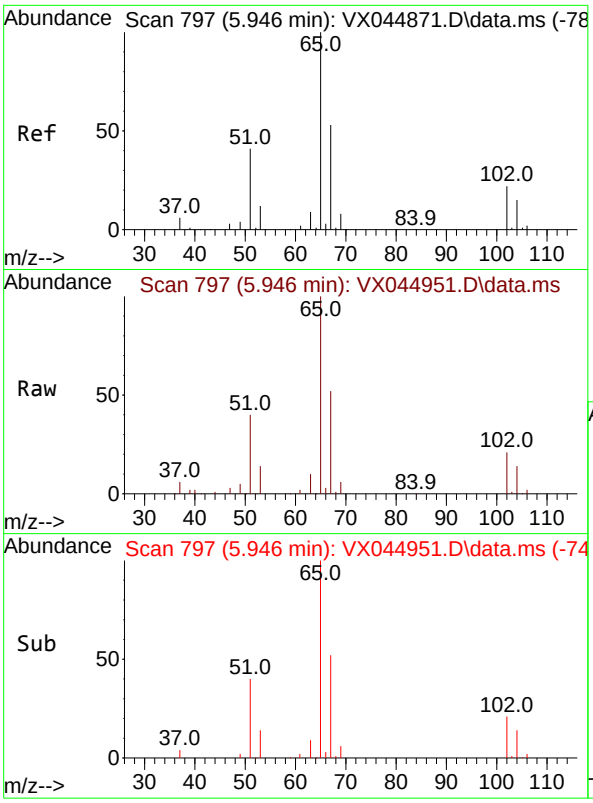


#32
1,1,1-Trichloroethane
Concen: 19.641 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 97 Resp: 43492

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.0	76.6
61	47.3	36.6	55.0



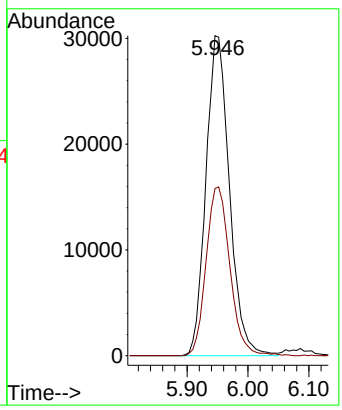


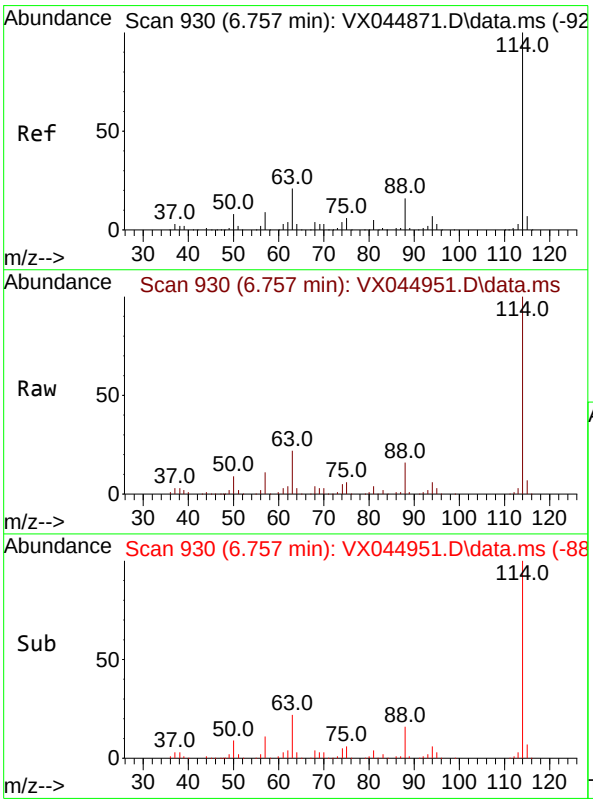
#33
1,2-Dichloroethane-d4
Concen: 50.718 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 65 Resp: 81048

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	108.2

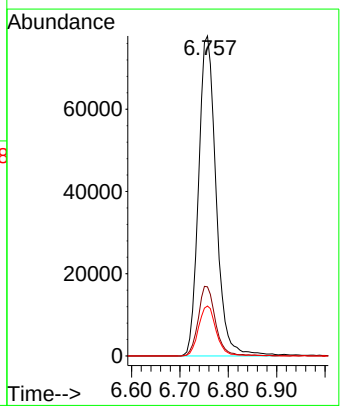


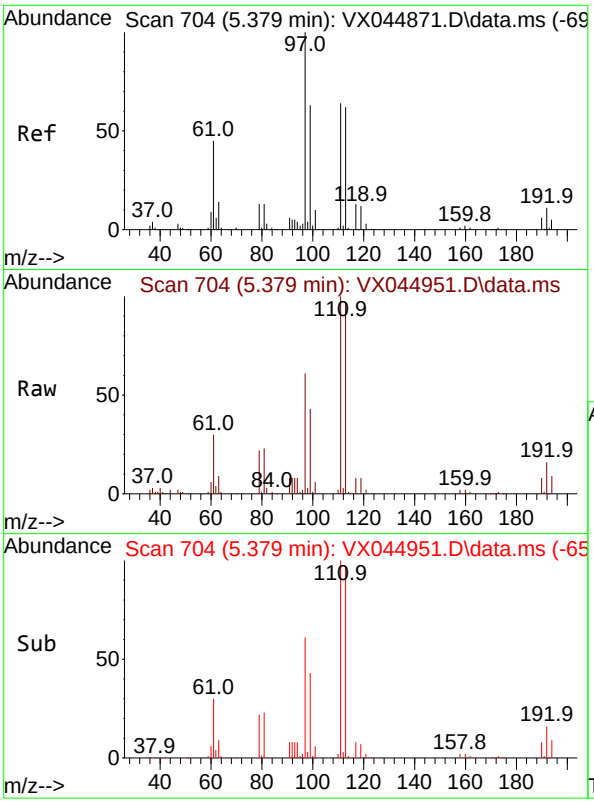


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:114 Resp: 195743

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.4
88	15.6	0.0	31.4



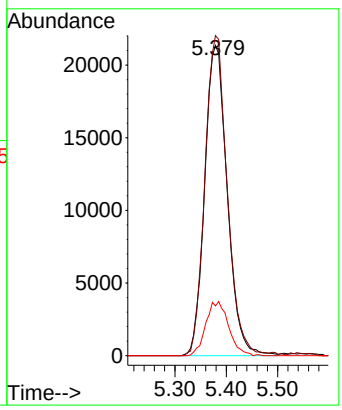


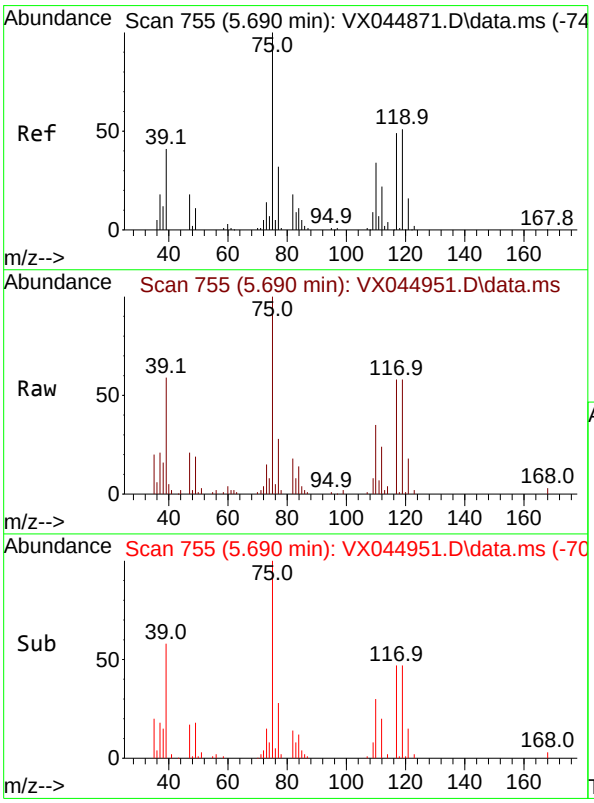
#35
Dibromofluoromethane
Concen: 51.117 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:113 Resp: 65054

Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.5	125.3
192	17.7	14.4	21.6

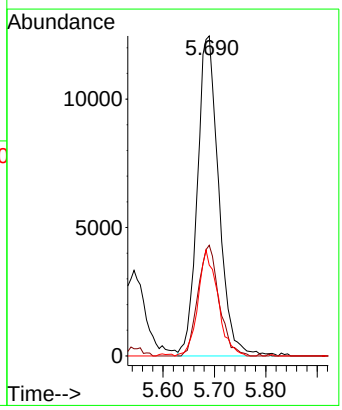


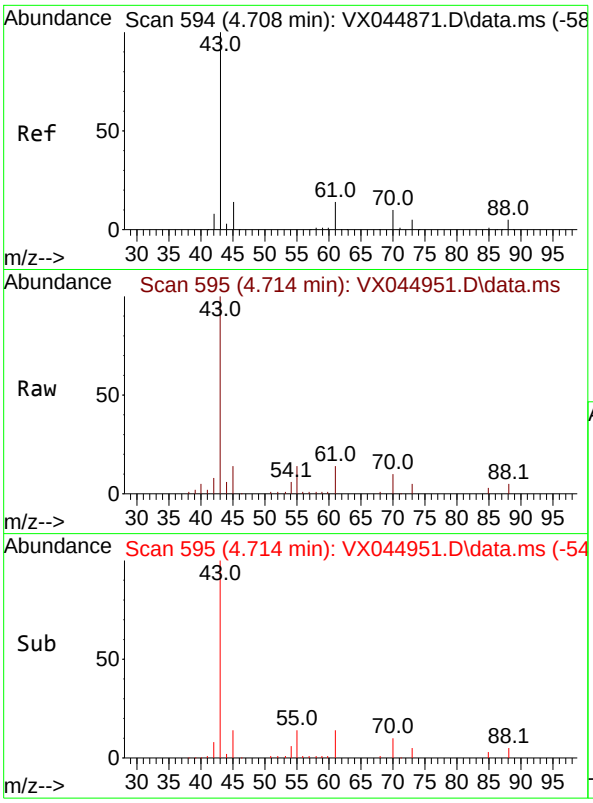


#36
1,1-Dichloropropene
Concen: 19.602 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 35991

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.2	51.6
77	30.8	24.6	37.0



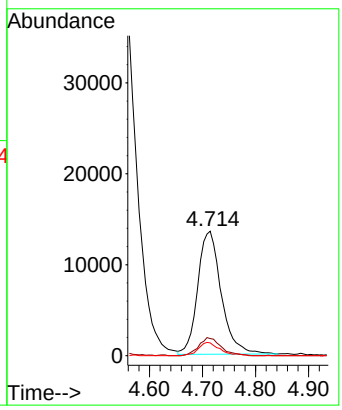


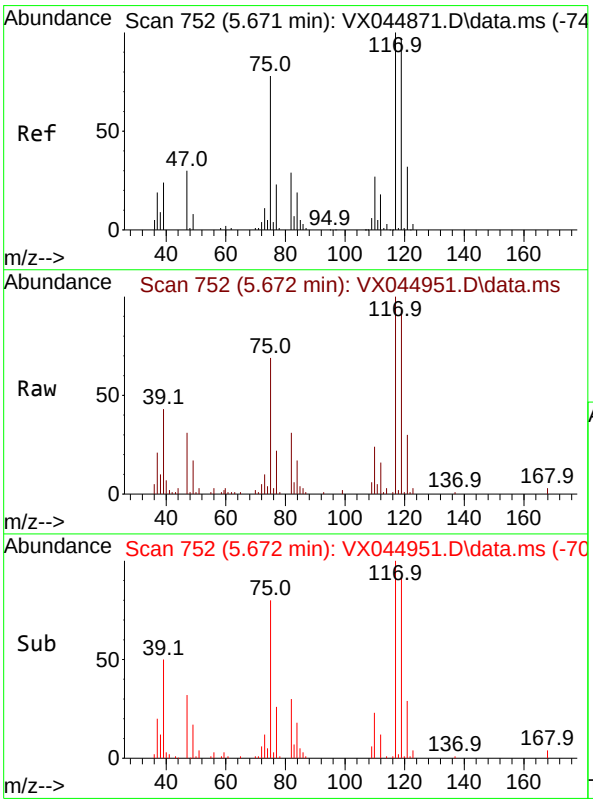
#37
Ethyl Acetate
Concen: 20.428 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 43 Resp: 41720

Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.0	16.4
70	9.9	8.2	12.2

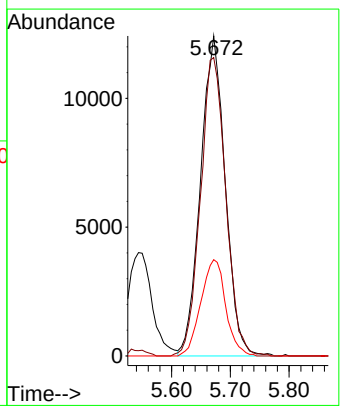


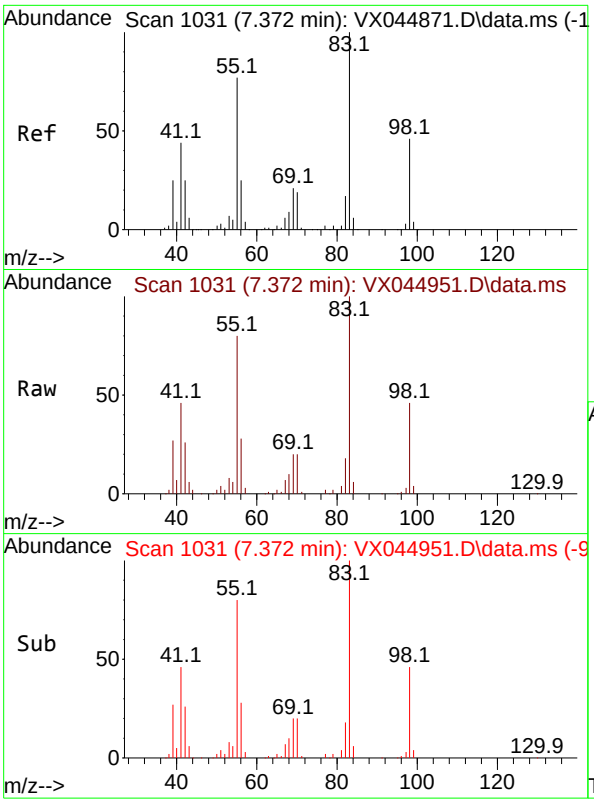


#38
Carbon Tetrachloride
Concen: 20.174 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:117 Resp: 36299

Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.5	116.3
121	30.1	25.6	38.4



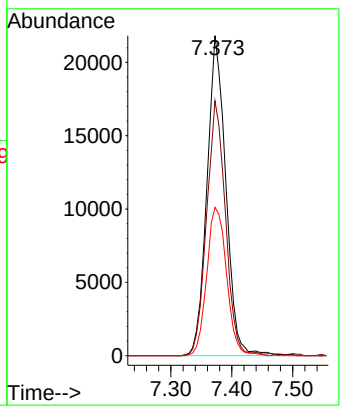


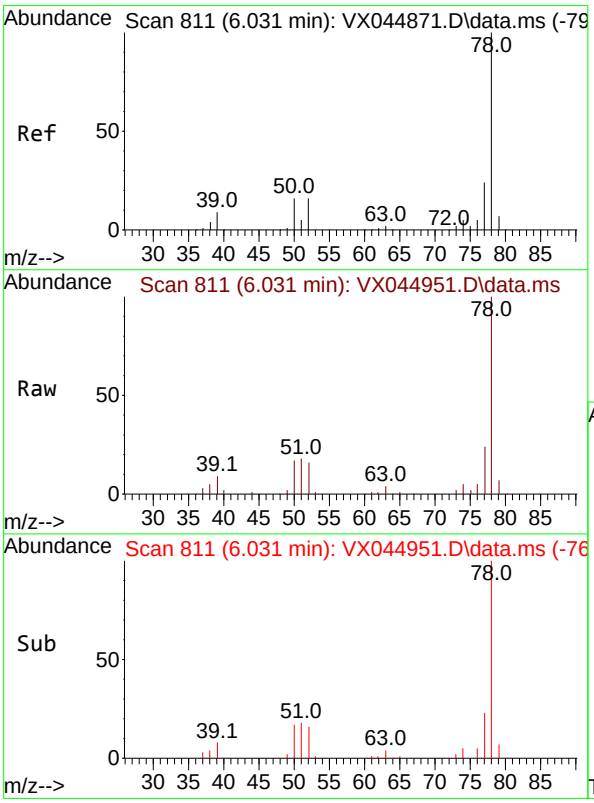
#39
Methylcyclohexane
Concen: 19.769 ug/l
RT: 7.372 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 83 Resp: 46927

Ion	Ratio	Lower	Upper
83	100		
55	79.6	61.3	91.9
98	46.4	37.0	55.6

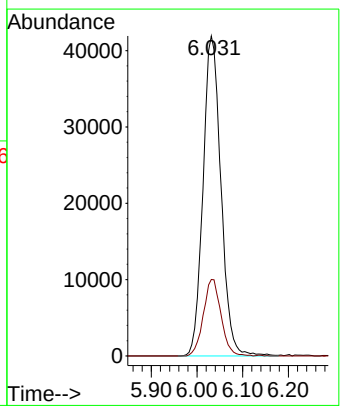


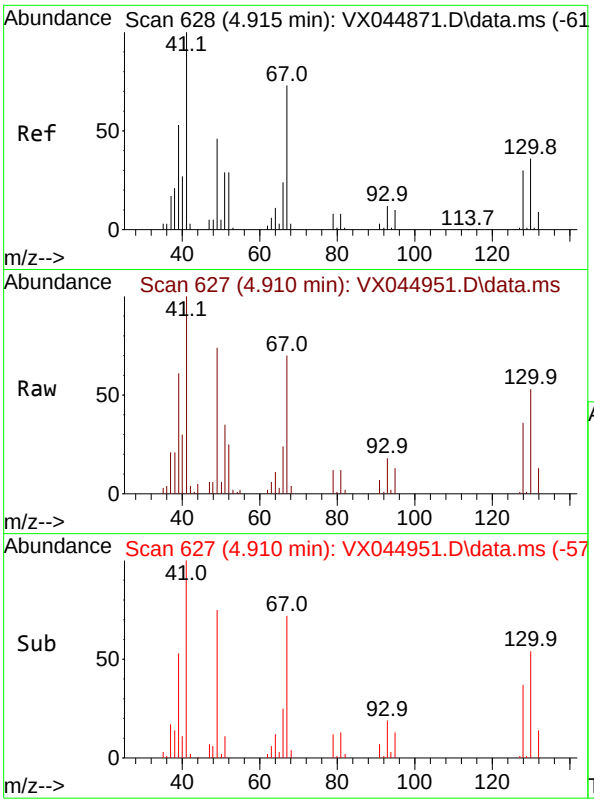


#40
Benzene
Concen: 19.958 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 78 Resp: 114429

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6



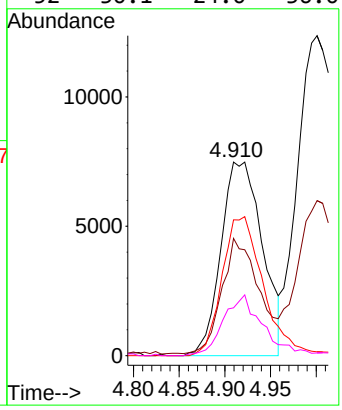


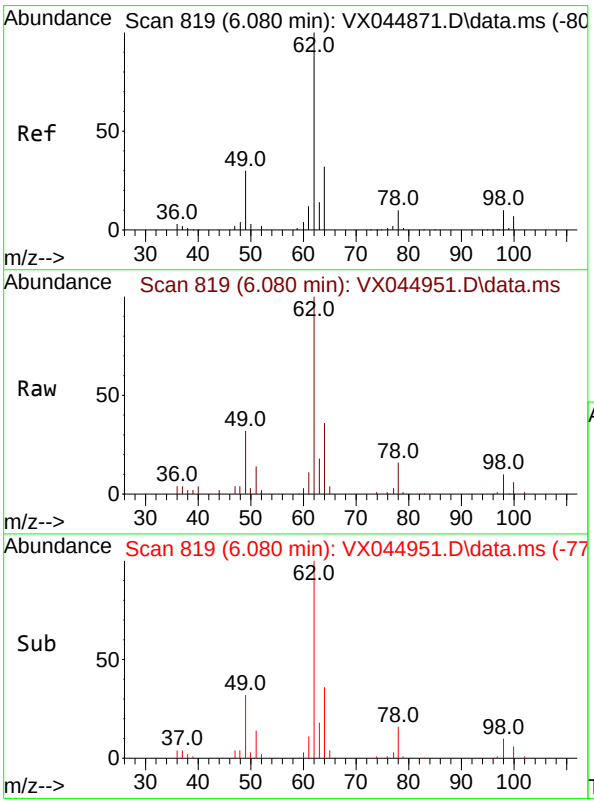
#41
Methacrylonitrile
Concen: 21.685 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 41 Resp: 23705

Ion	Ratio	Lower	Upper
41	100		
39	53.5	43.1	64.7
67	71.4	57.0	85.6
52	30.1	24.0	36.0

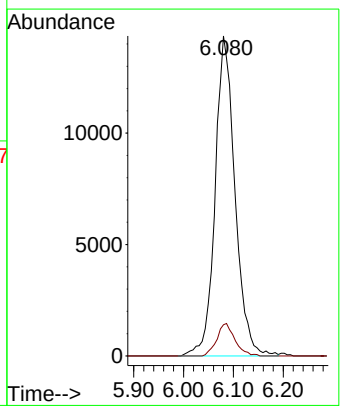


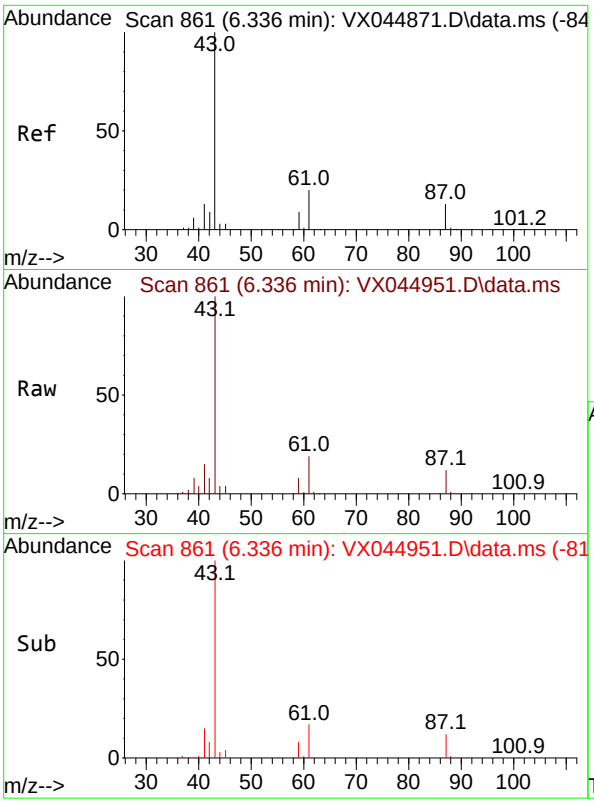


#42
1,2-Dichloroethane
Concen: 21.773 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 62 Resp: 39785

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.4



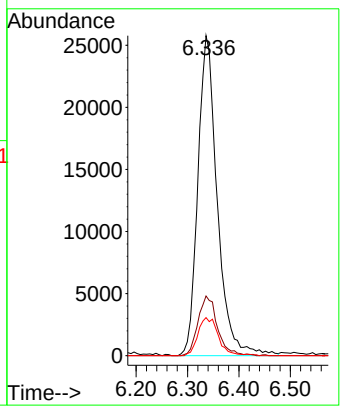


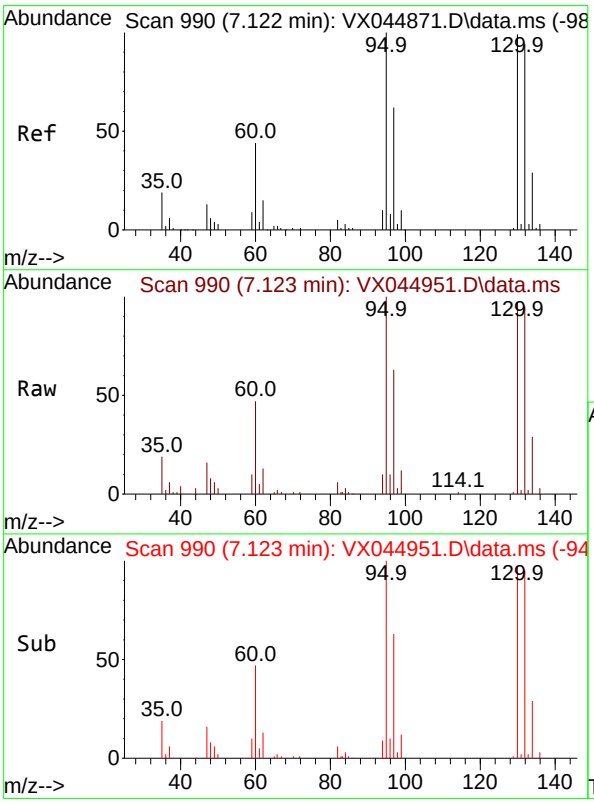
#43
Isopropyl Acetate
Concen: 20.524 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 43 Resp: 67687

Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.8	23.8
87	12.4	10.0	15.0

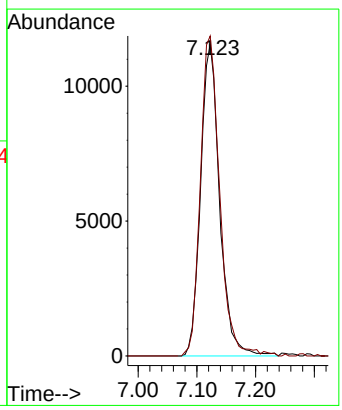


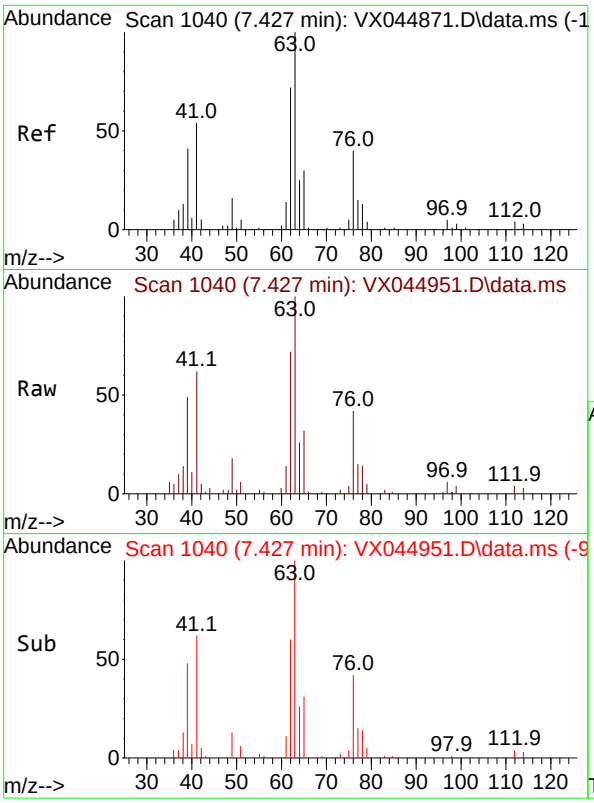


#44
Trichloroethene
Concen: 19.823 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:130 Resp: 25978

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	202.4



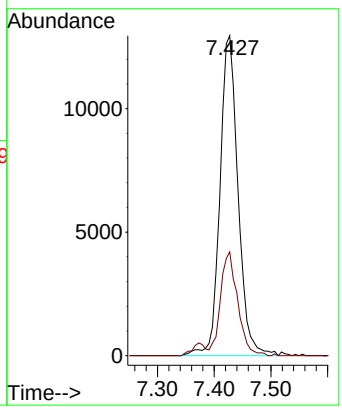


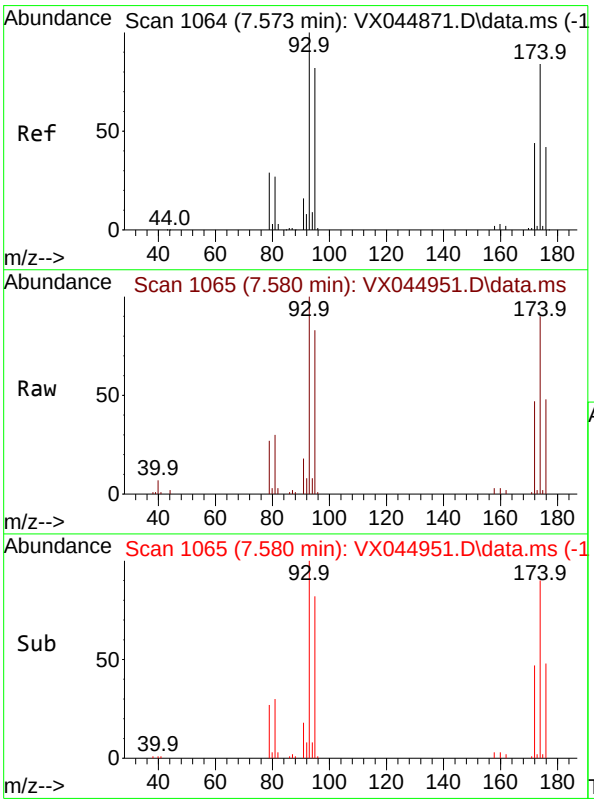
#45
1,2-Dichloropropane
Concen: 20.145 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 63 Resp: 28734

Ion	Ratio	Lower	Upper
63	100		
65	32.5	24.2	36.4

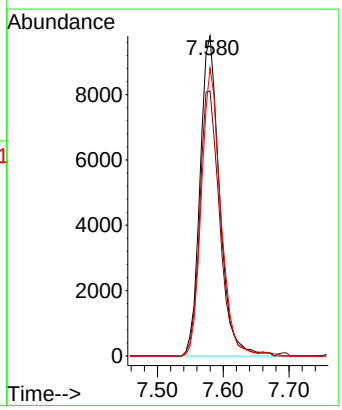


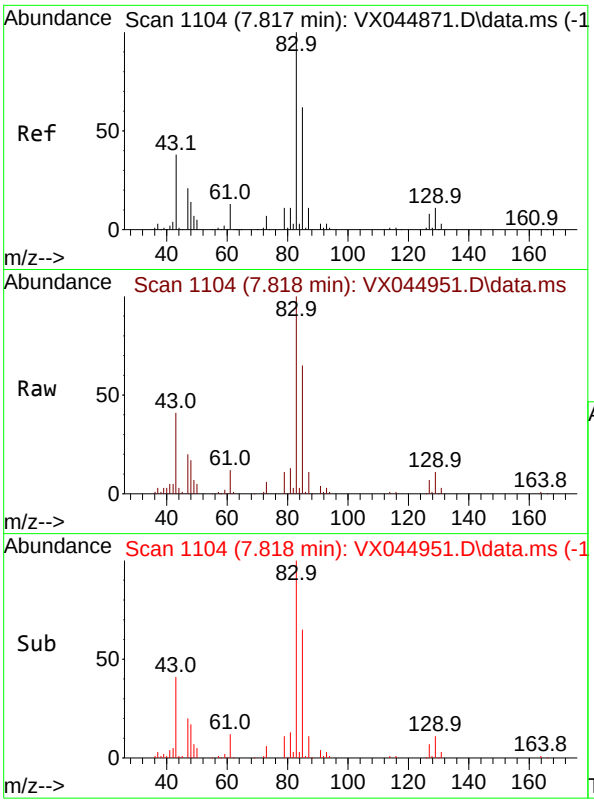


#46
Dibromomethane
Concen: 20.383 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 93 Resp: 20163

Ion	Ratio	Lower	Upper
93	100		
95	84.6	66.2	99.4
174	89.5	69.9	104.9



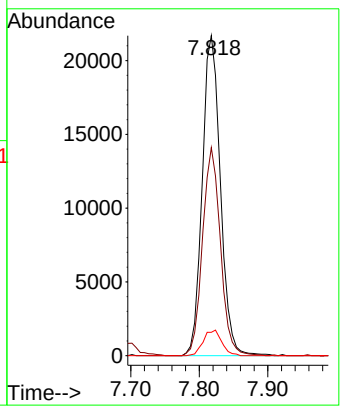


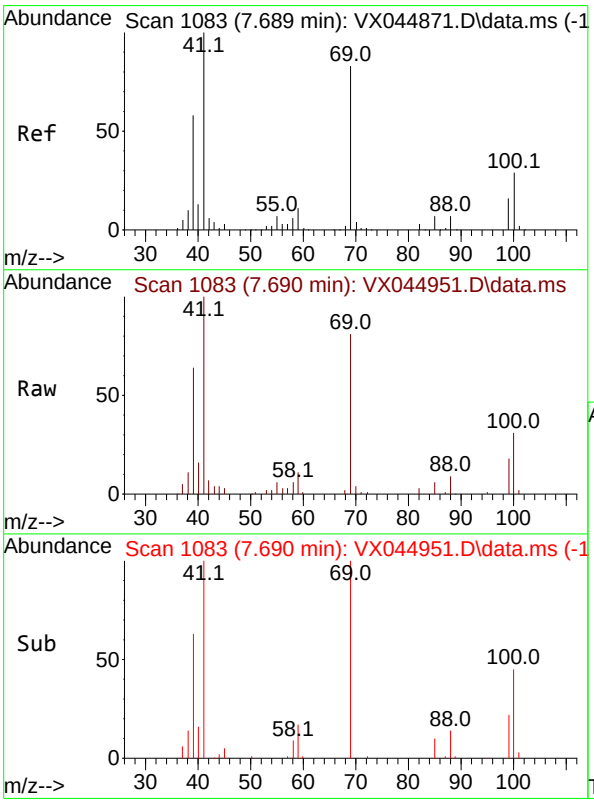
#47
Bromodichloromethane
Concen: 20.896 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 83 Resp: 40024

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.0	75.0
127	7.3	6.4	9.6

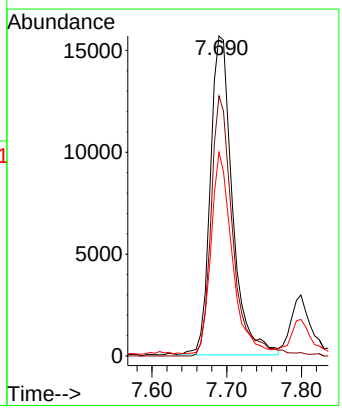


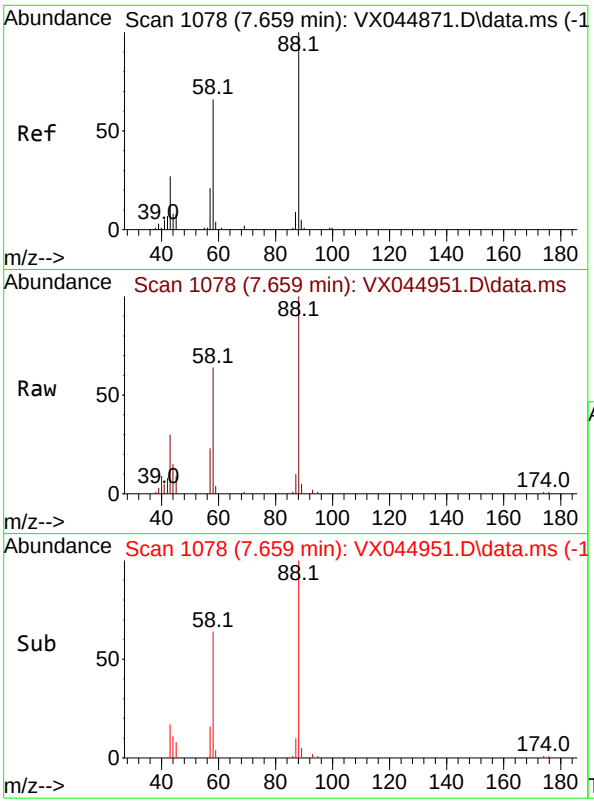


#48
Methyl methacrylate
Concen: 20.739 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 41 Resp: 32249

Ion	Ratio	Lower	Upper
41	100		
69	80.7	65.8	98.8
39	60.1	46.4	69.6



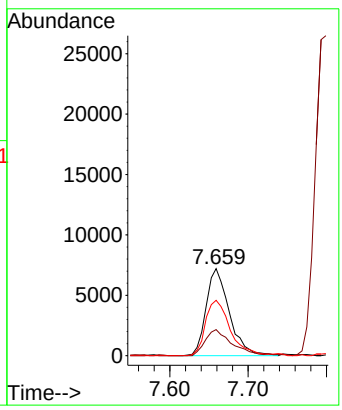


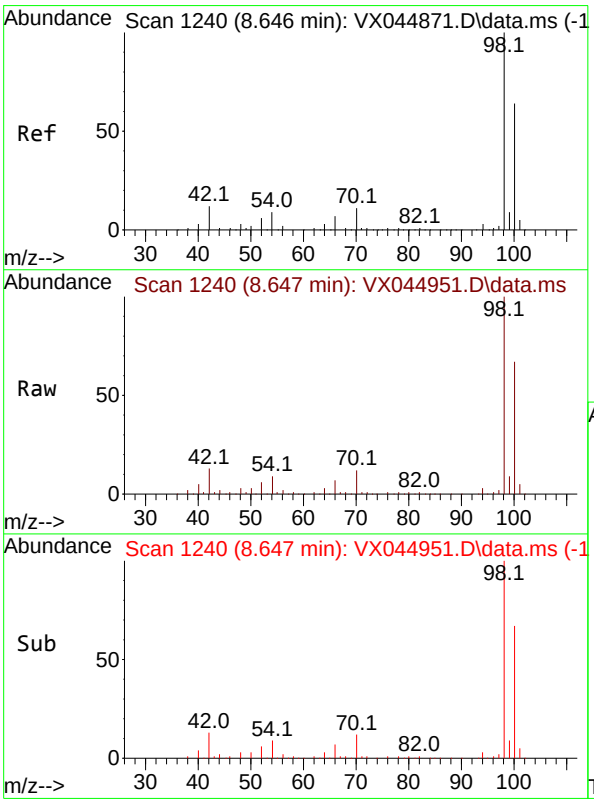
#49
1,4-Dioxane
Concen: 443.128 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 88 Resp: 14784

Ion	Ratio	Lower	Upper
88	100		
43	35.4	26.6	39.8
58	68.1	55.9	83.9

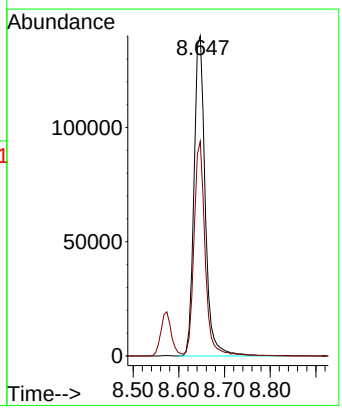


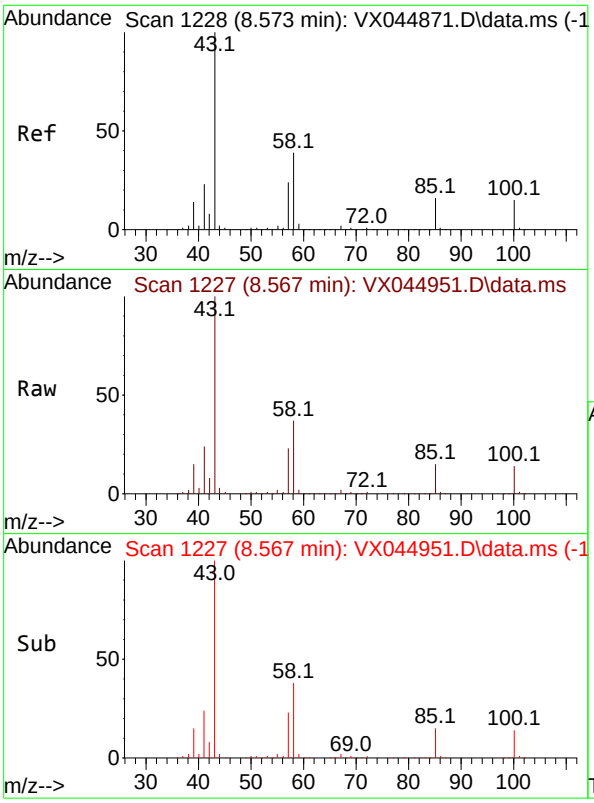


#50
Toluene-d8
Concen: 49.736 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 98 Resp: 239351

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.7	79.1



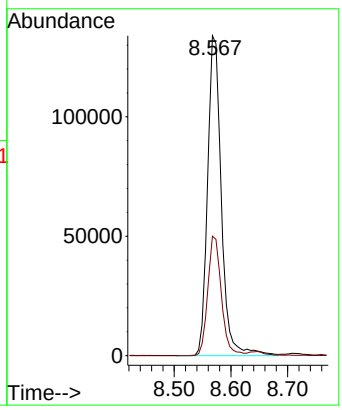


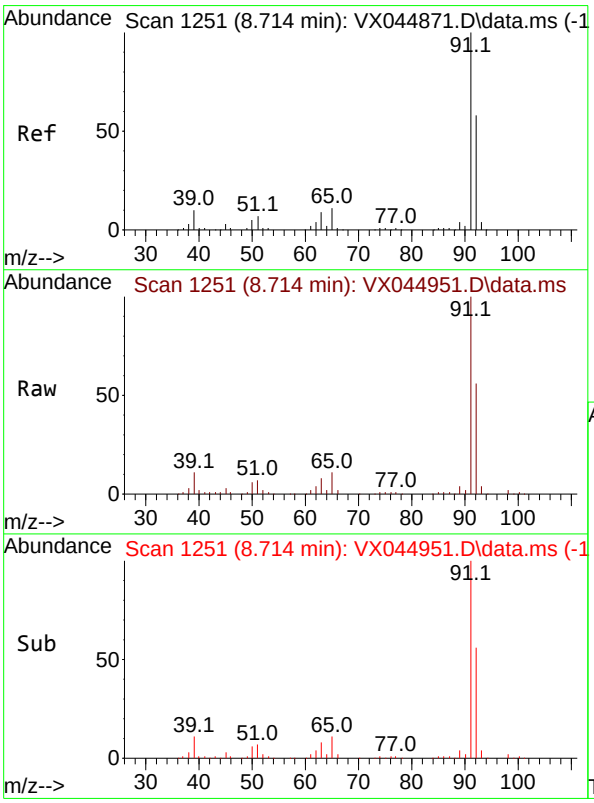
#51
4-Methyl-2-Pentanone
Concen: 112.703 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 43 Resp: 225966

Ion	Ratio	Lower	Upper
43	100		
58	36.8	30.8	46.2

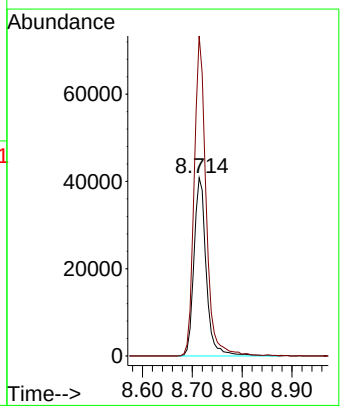


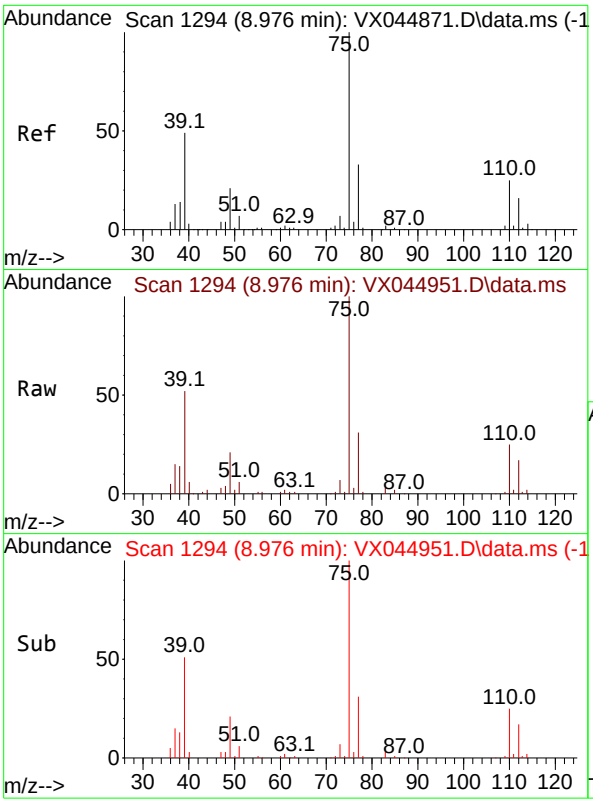


#52
Toluene
Concen: 20.427 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 92 Resp: 69748

Ion	Ratio	Lower	Upper
92	100		
91	174.6	137.4	206.2



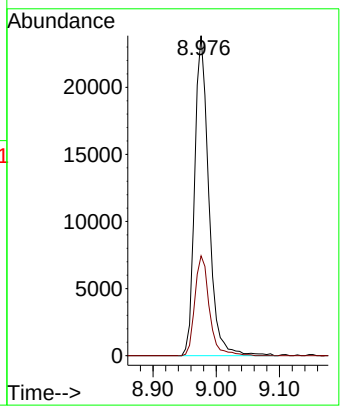


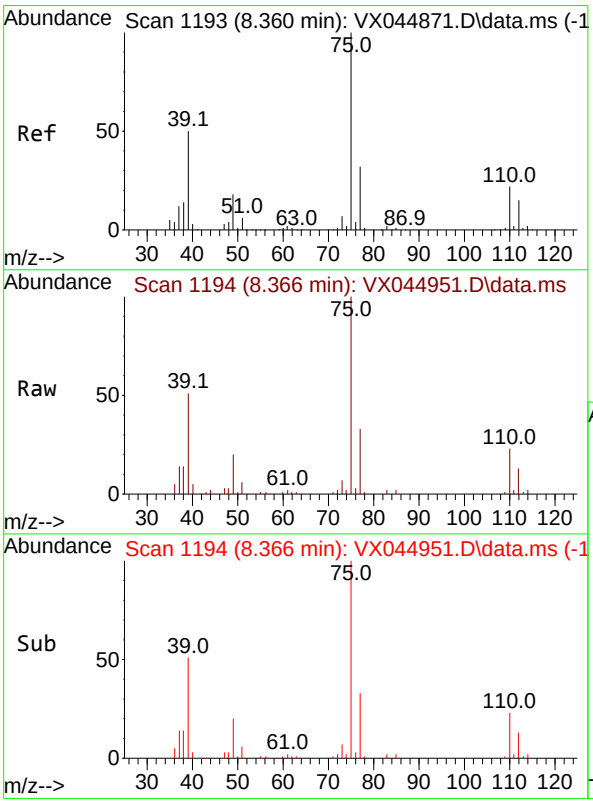
#53
t-1,3-Dichloropropene
Concen: 19.176 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 75 Resp: 37169

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.0	39.0

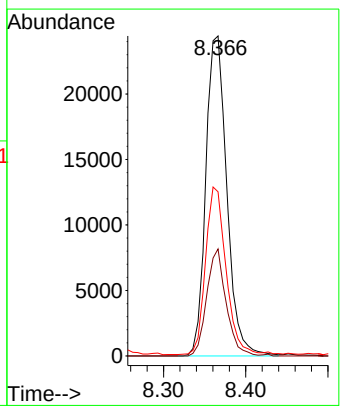


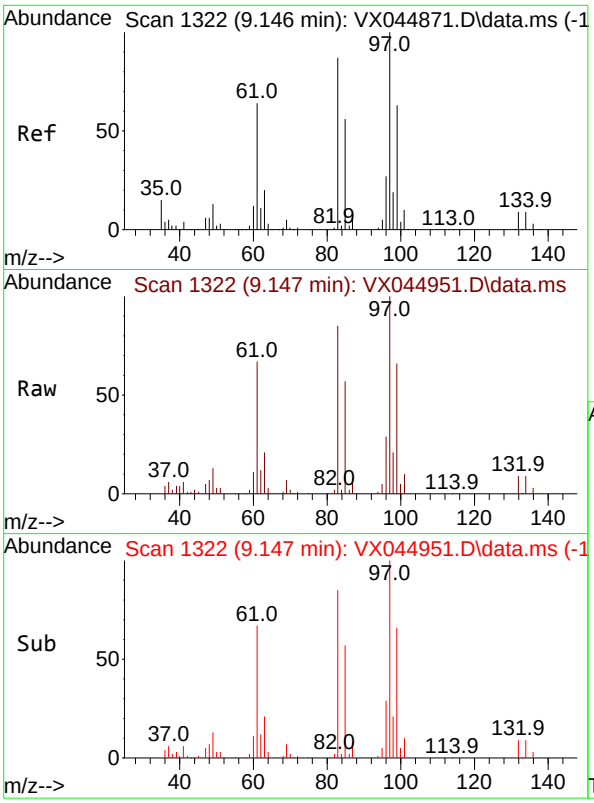


#54
cis-1,3-Dichloropropene
Concen: 20.090 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 43416

Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.3	37.9
39	50.9	40.0	60.0



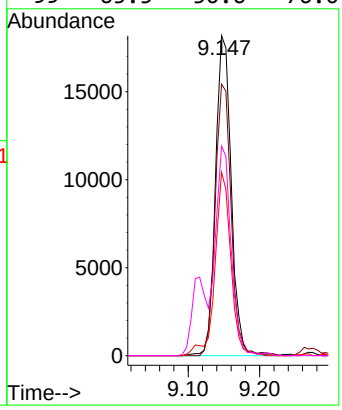


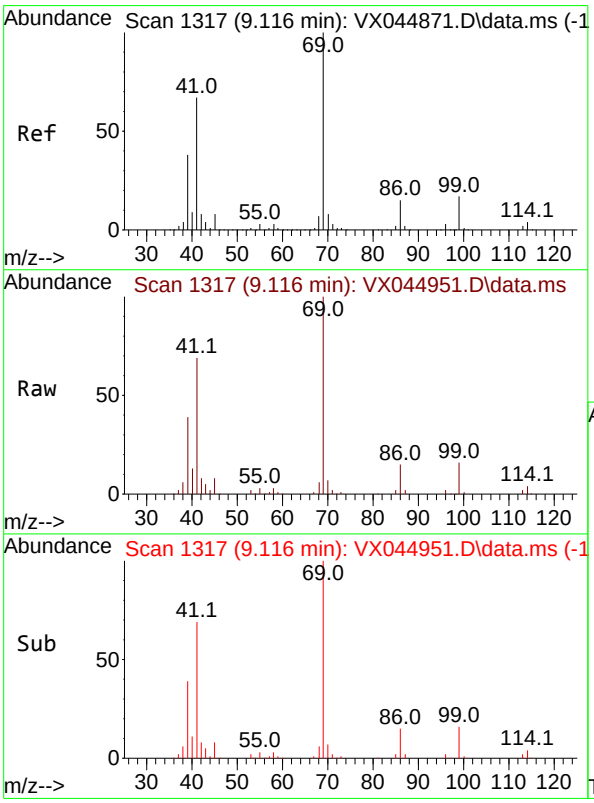
#55
1,1,2-Trichloroethane
Concen: 21.245 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 97 Resp: 27886

Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.8	104.6
85	57.3	44.8	67.2
99	65.5	50.6	76.0

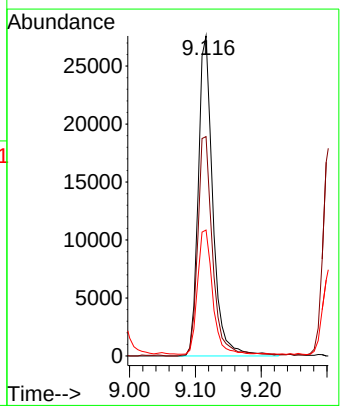


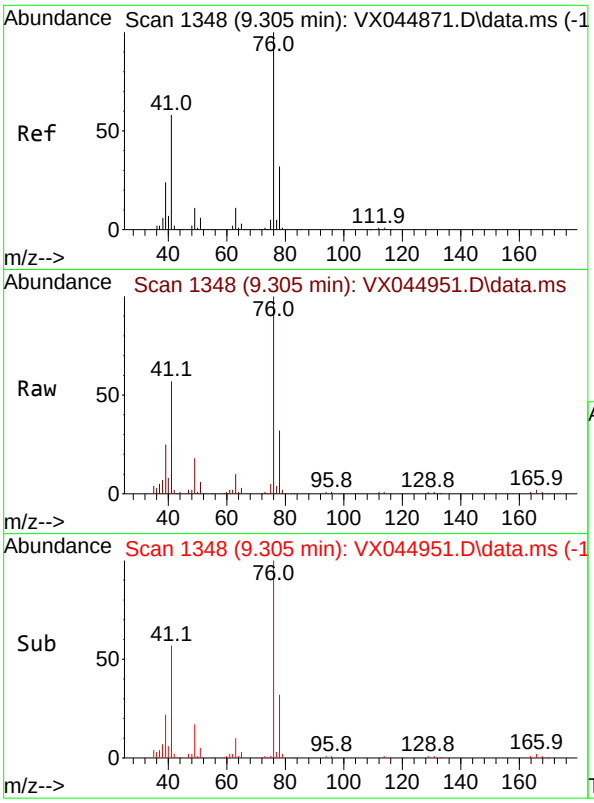


#56
Ethyl methacrylate
Concen: 20.021 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 69 Resp: 42444

Ion	Ratio	Lower	Upper
69	100		
41	70.6	55.2	82.8
39	39.9	30.8	46.2



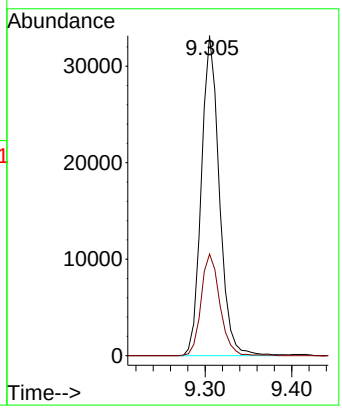


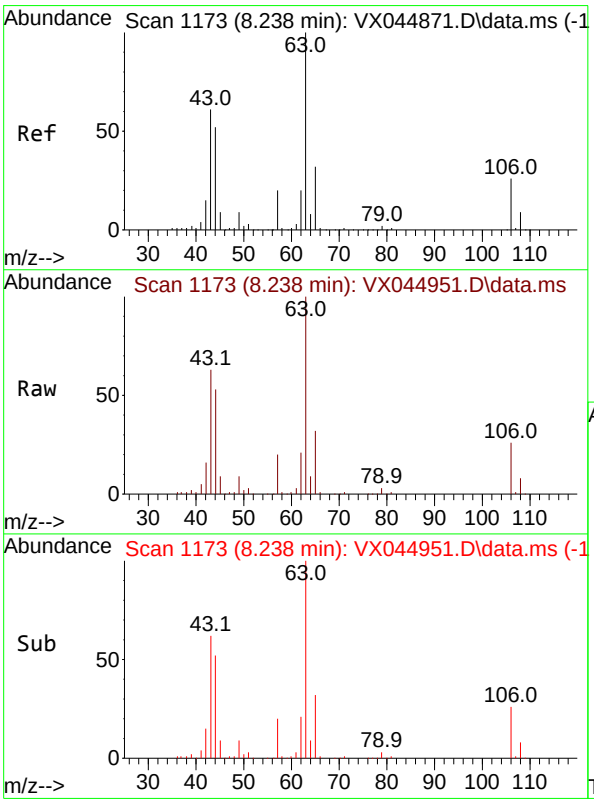
#57
1,3-Dichloropropane
Concen: 20.820 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 76 Resp: 47815

Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.8	38.8

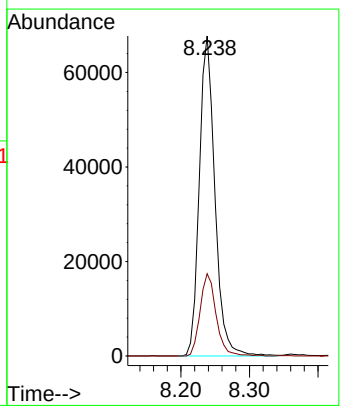


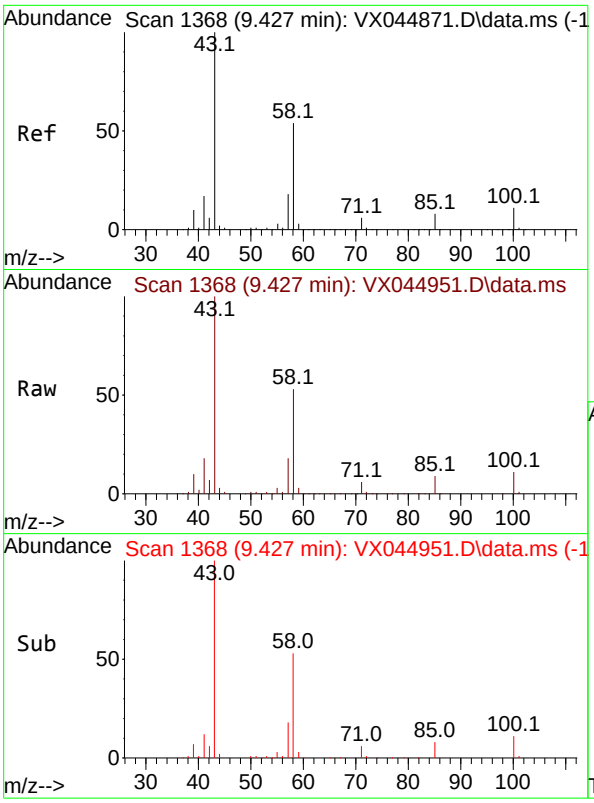


#58
2-Chloroethyl Vinyl ether
Concen: 103.151 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 63 Resp: 107373

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.3	31.9



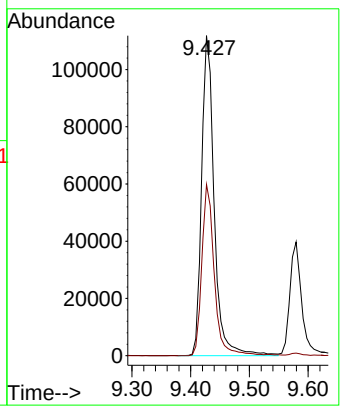


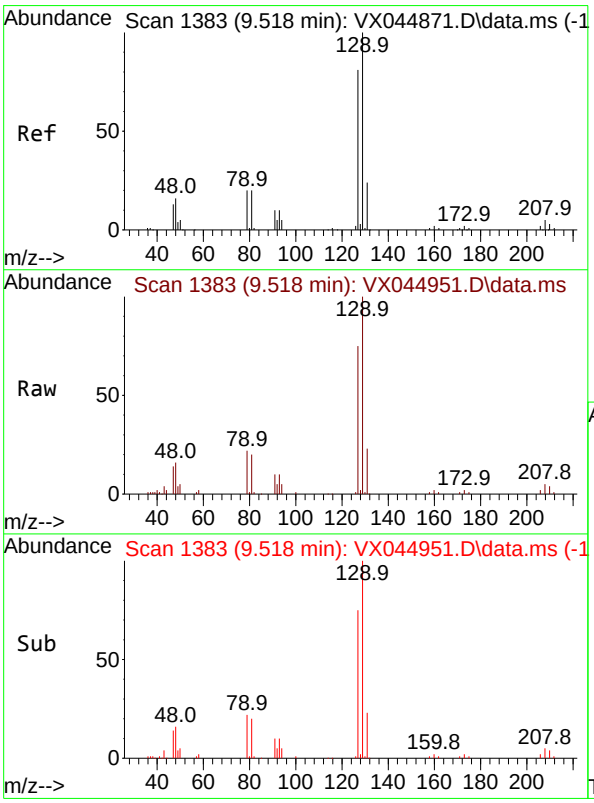
#59
2-Hexanone
Concen: 115.365 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 43 Resp: 166655

Ion	Ratio	Lower	Upper
43	100		
58	52.8	27.5	82.4

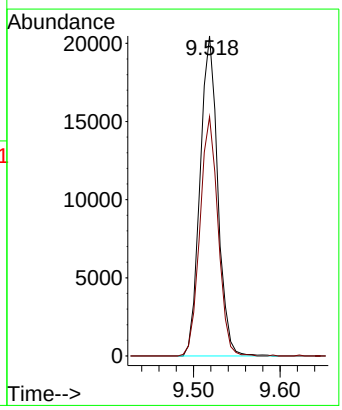


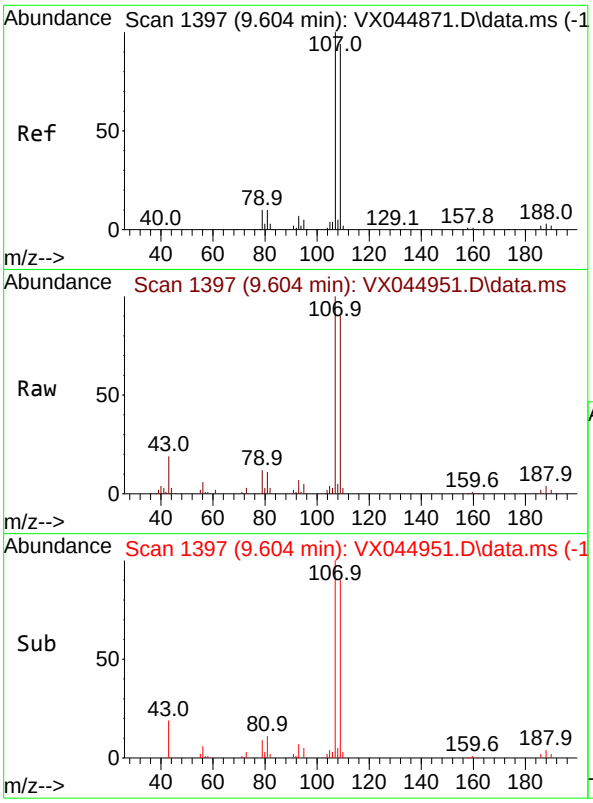


#60
Dibromochloromethane
Concen: 20.721 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:129 Resp: 29087

Ion	Ratio	Lower	Upper
129	100		
127	76.2	39.1	117.3



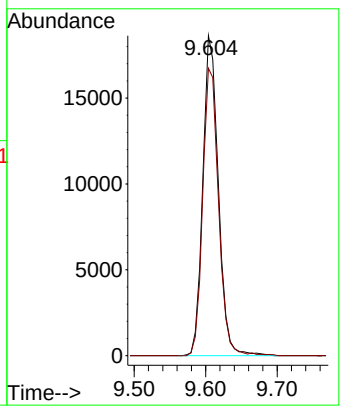


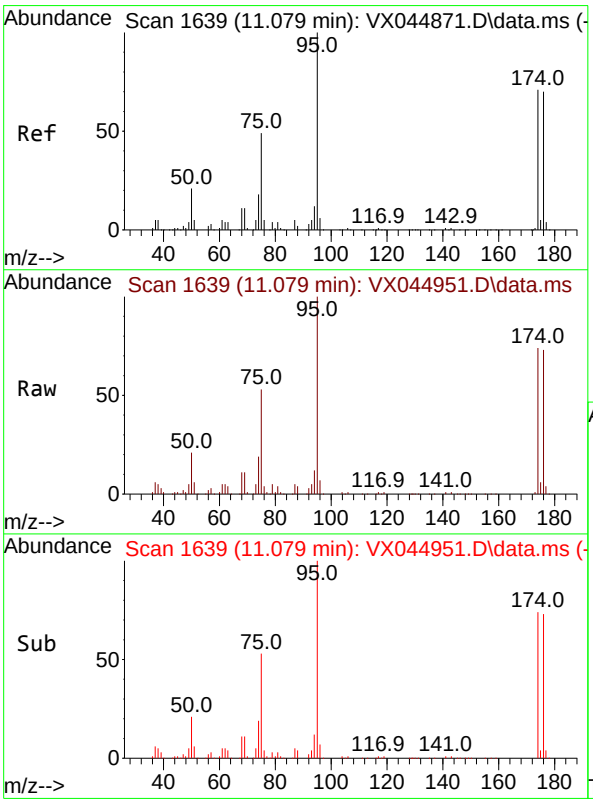
#61
1,2-Dibromoethane
Concen: 21.163 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:107 Resp: 28155

Ion	Ratio	Lower	Upper
107	100		
109	91.6	75.9	113.9

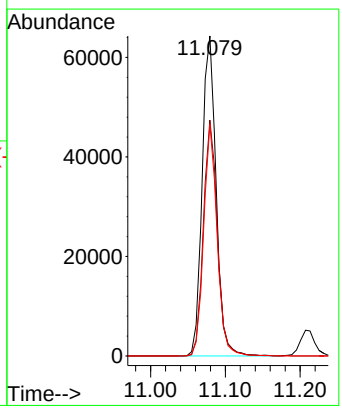


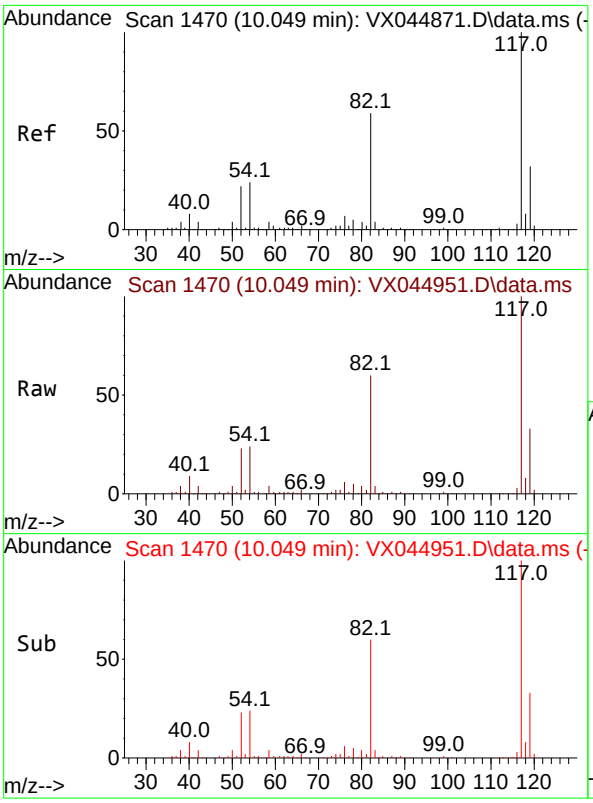


#62
4-Bromofluorobenzene
Concen: 51.472 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 95 Resp: 83506

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	142.6
176	69.6	0.0	141.6



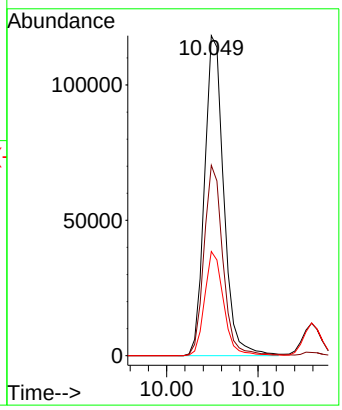


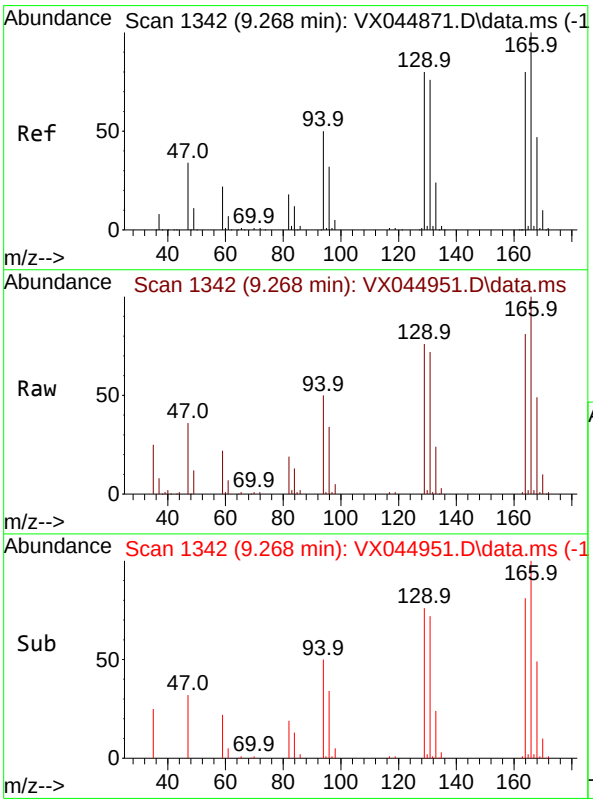
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:117 Resp: 172020

Ion	Ratio	Lower	Upper
117	100		
82	59.5	47.5	71.3
119	32.5	25.4	38.0

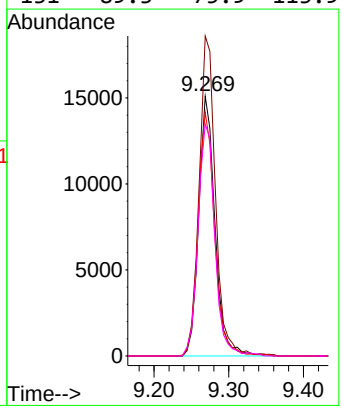


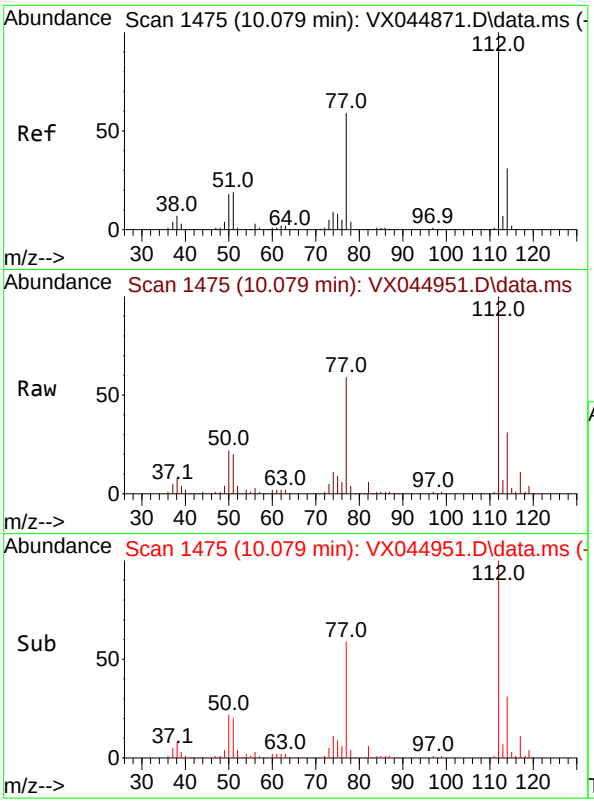


#64
Tetrachloroethene
Concen: 20.951 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:164 Resp: 22728

Ion	Ratio	Lower	Upper
164	100		
166	123.3	100.4	150.6
129	93.7	79.9	119.9
131	89.3	75.9	113.9



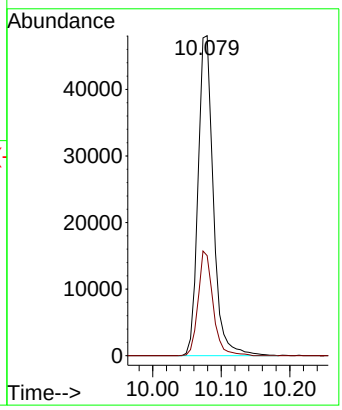


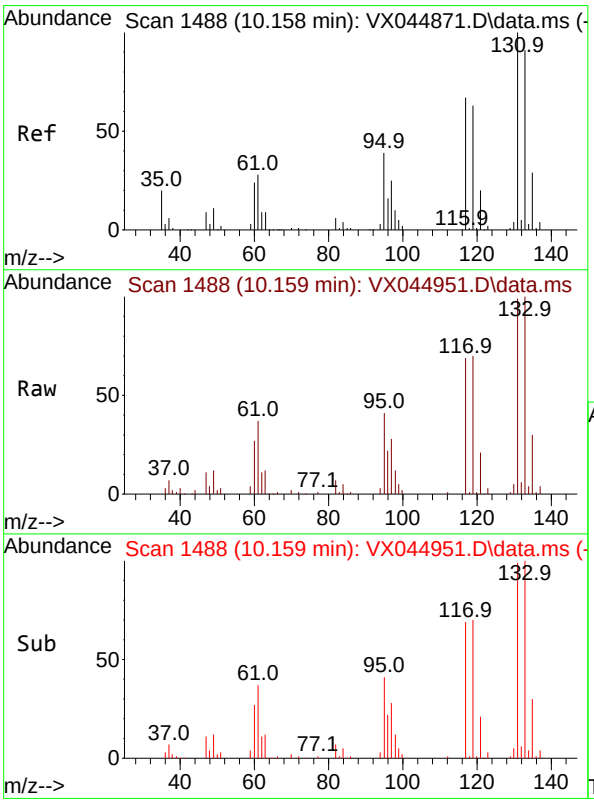
#65
Chlorobenzene
Concen: 20.200 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:112 Resp: 74635

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.6

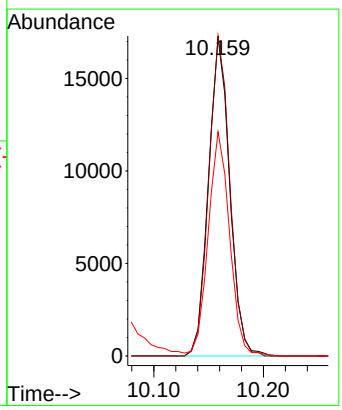


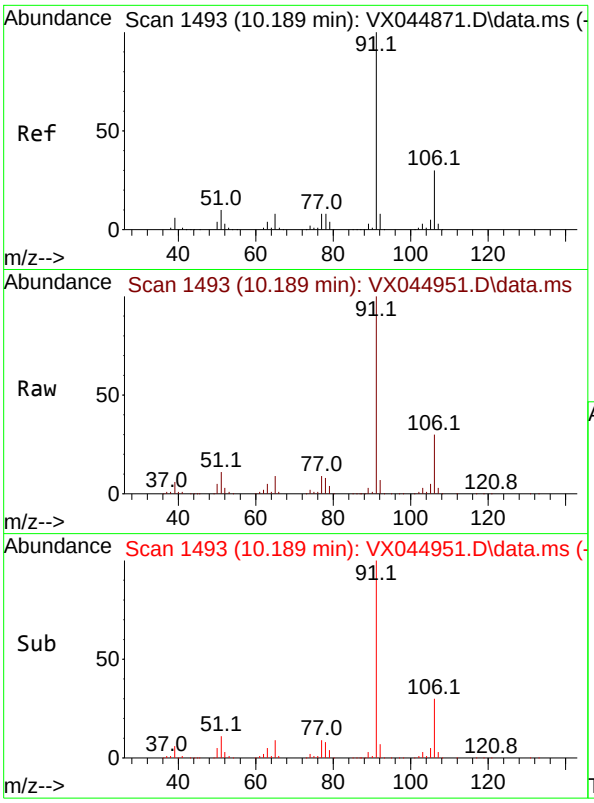


#66
1,1,1,2-Tetrachloroethane
Concen: 19.514 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:131 Resp: 23206

Ion	Ratio	Lower	Upper
131	100		
133	99.9	47.1	141.3
119	70.7	33.6	100.6



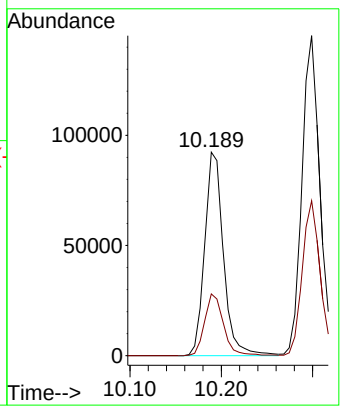


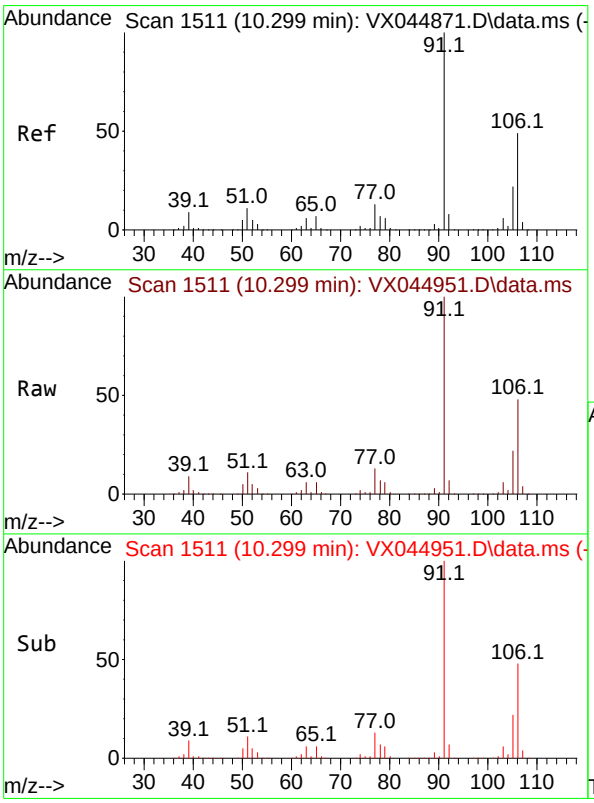
#67
Ethyl Benzene
Concen: 20.199 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 91 Resp: 131698

Ion	Ratio	Lower	Upper
91	100		
106	30.3	23.9	35.9

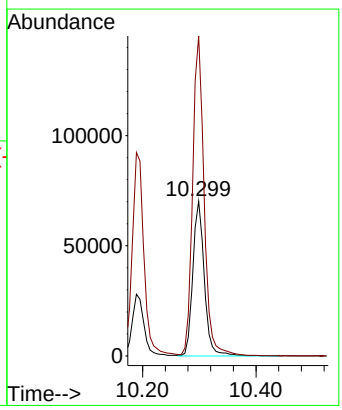


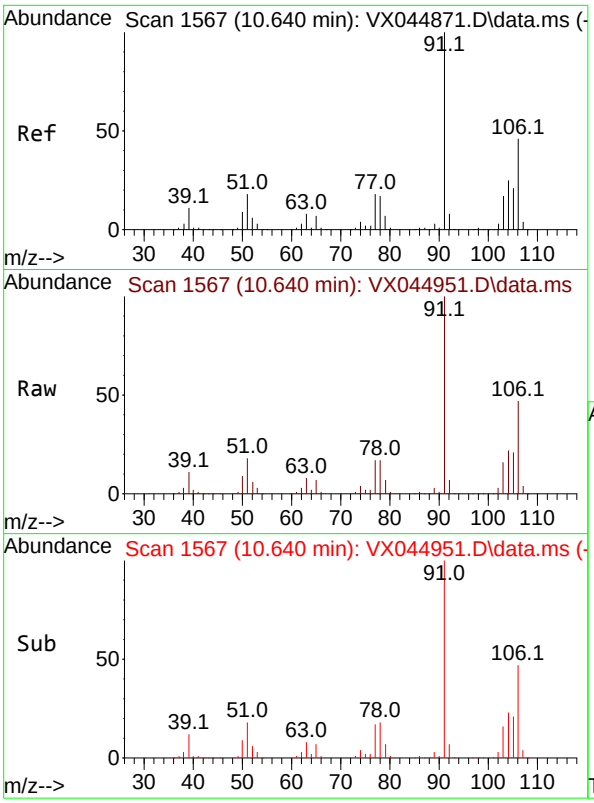


#68
m/p-Xylenes
Concen: 41.113 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:106 Resp: 98883

Ion	Ratio	Lower	Upper
106	100		
91	205.8	164.3	246.5



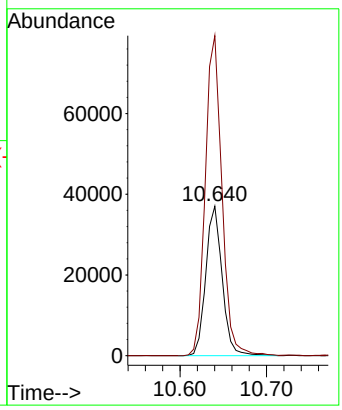


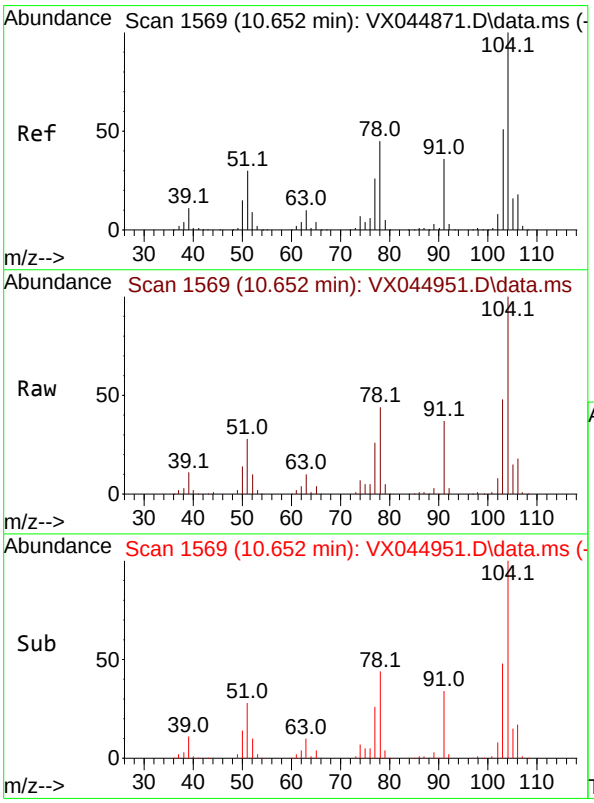
#69
o-Xylene
Concen: 20.177 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:106 Resp: 48694

Ion	Ratio	Lower	Upper
106	100		
91	217.1	108.5	325.5

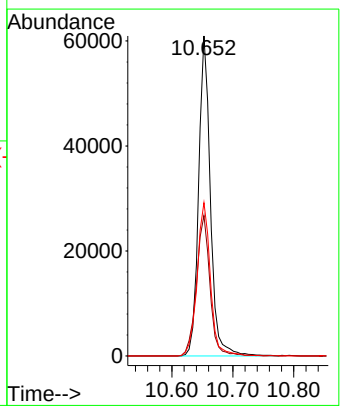


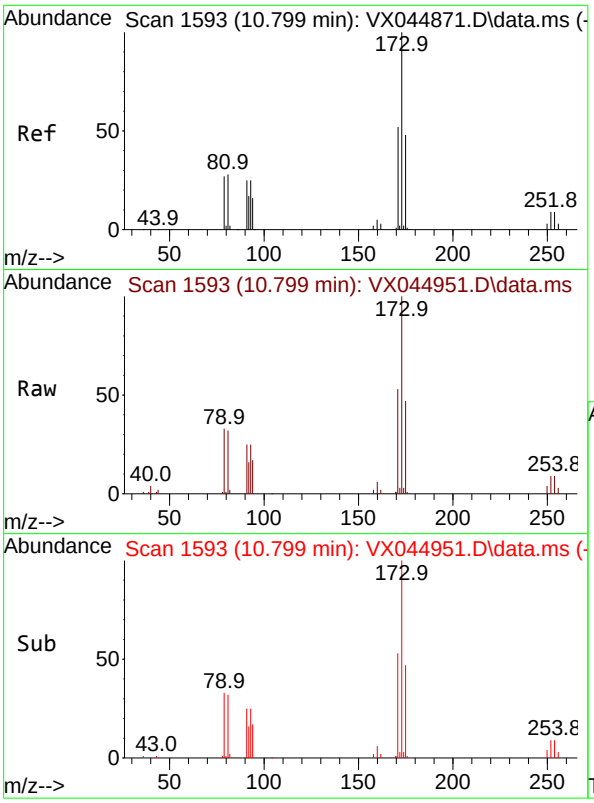


#70
Styrene
Concen: 21.020 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:104 Resp: 81730

Ion	Ratio	Lower	Upper
104	100		
78	50.5	40.5	60.7
103	54.2	43.6	65.4



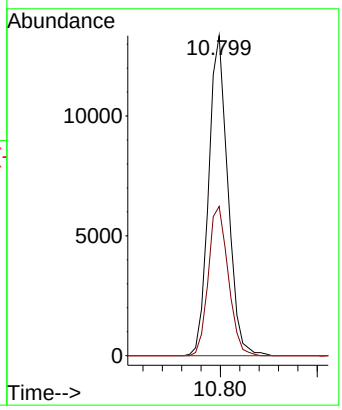


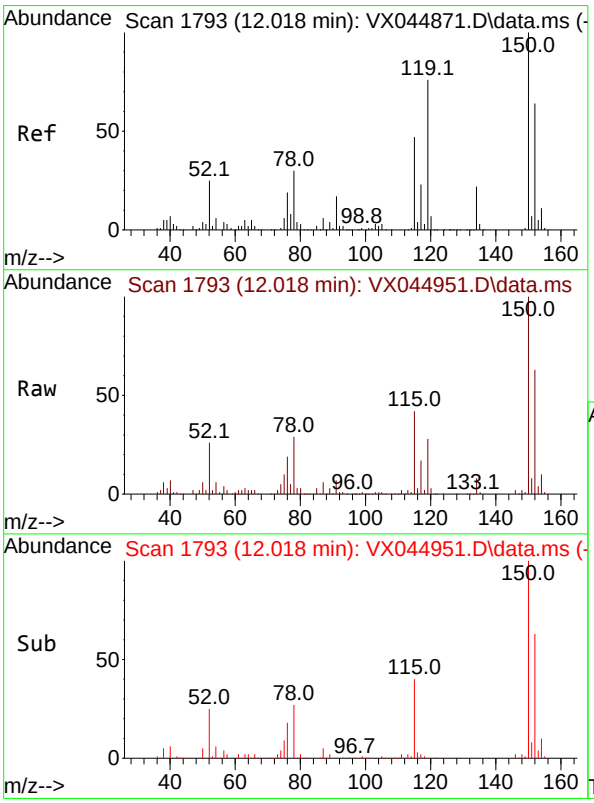
#71
Bromoform
Concen: 20.750 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:173 Resp: 18416

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.8
254	0.0	0.0	0.0

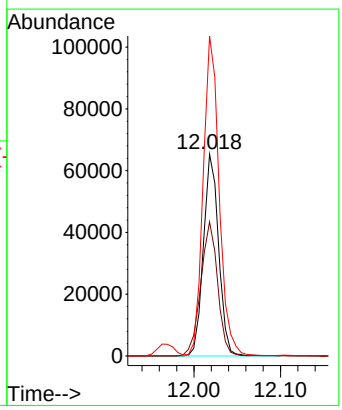


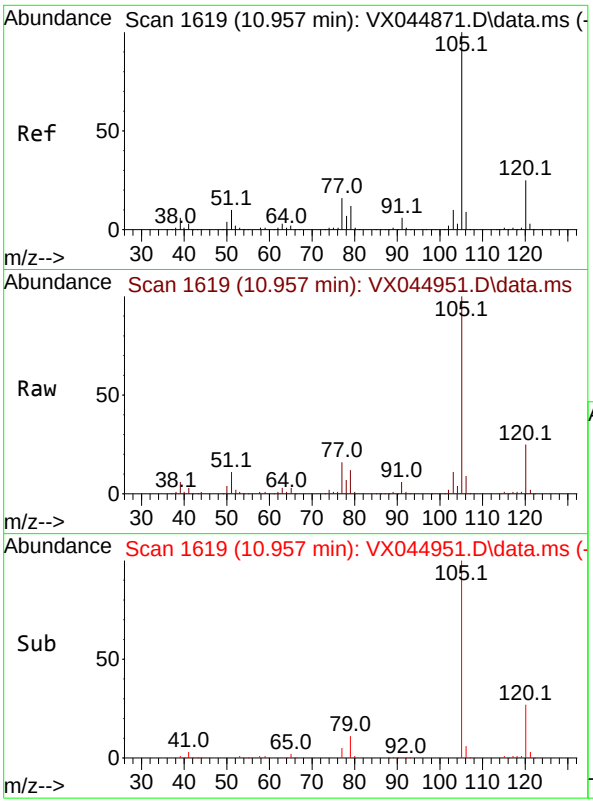


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:152 Resp: 79806

Ion	Ratio	Lower	Upper
152	100		
115	73.4	43.4	130.1
150	165.9	0.0	350.4



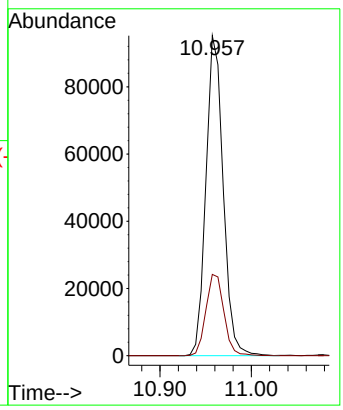


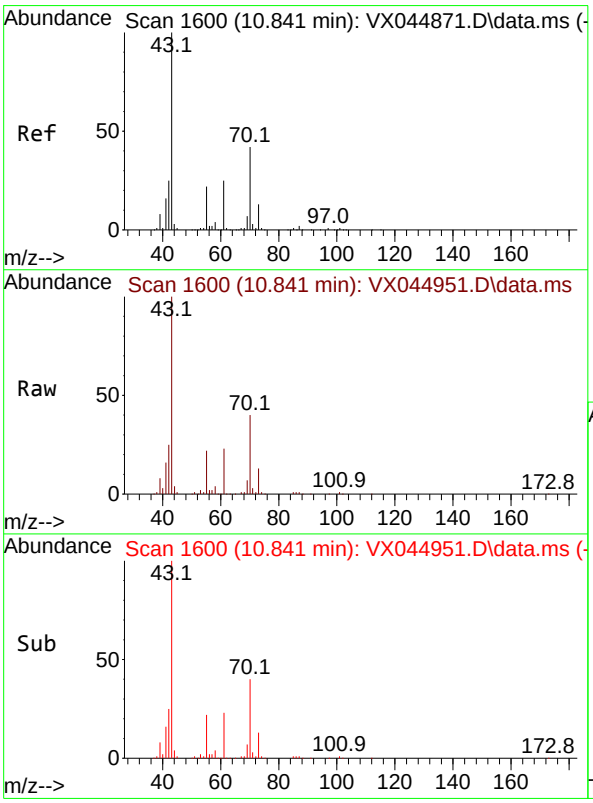
#73
Isopropylbenzene
Concen: 19.326 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:105 Resp: 124187

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.2	39.5

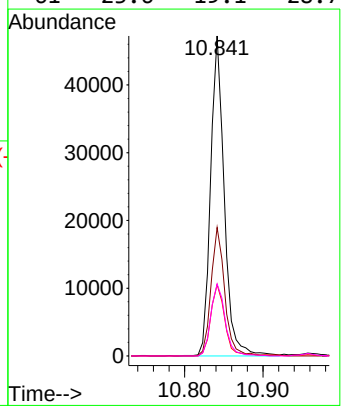


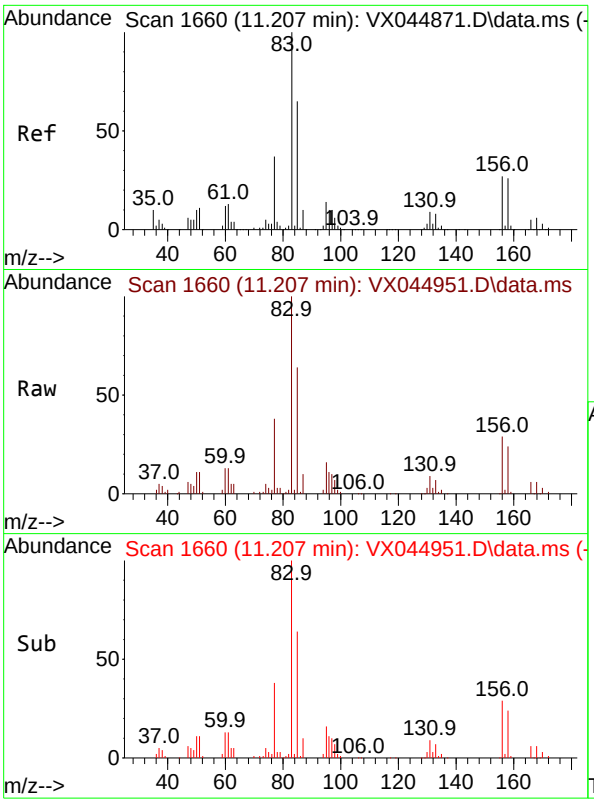


#74
N-amyl acetate
Concen: 19.677 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 43 Resp: 57217

Ion	Ratio	Lower	Upper
43	100		
70	40.2	33.7	50.5
55	23.2	18.6	27.8
61	23.6	19.1	28.7



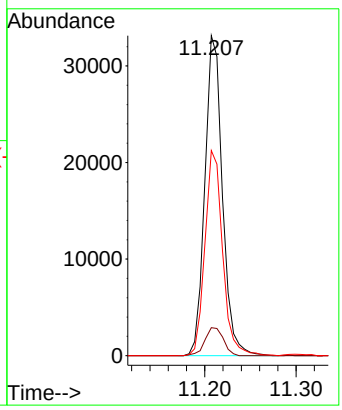


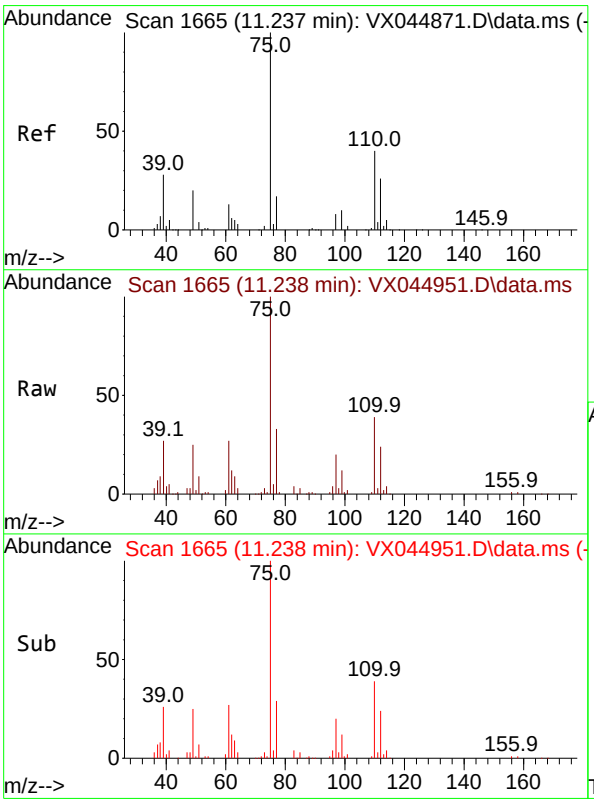
#75
1,1,2,2-Tetrachloroethane
Concen: 19.979 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 83 Resp: 44116

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.5
85	64.5	32.3	96.8

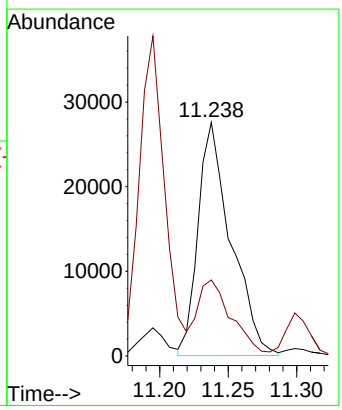


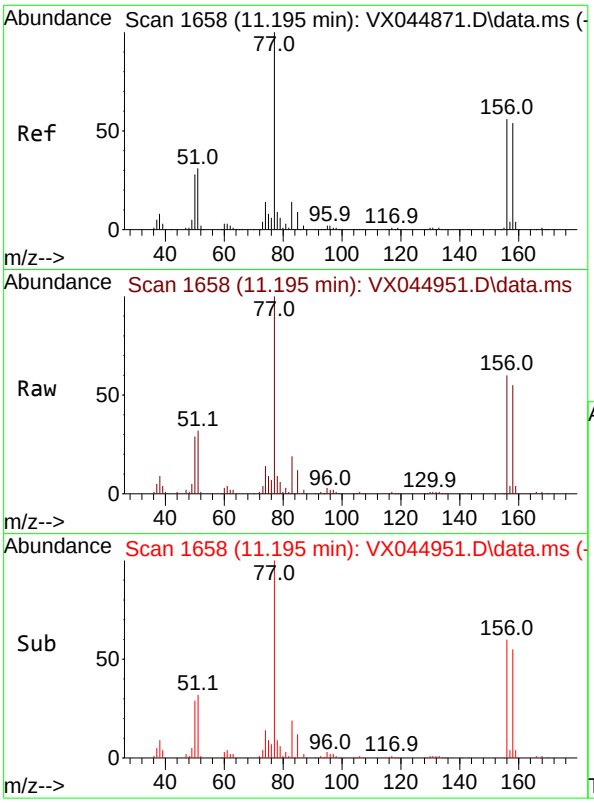


#76
1,2,3-Trichloropropane
Concen: 26.026 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 46051

Ion	Ratio	Lower	Upper
75	100		
77	33.8	21.9	65.7



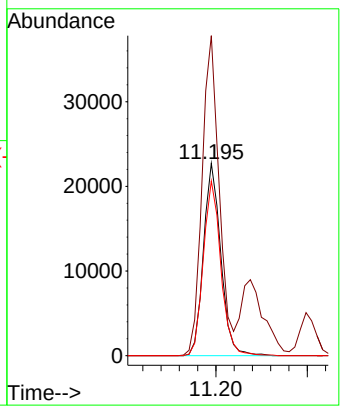


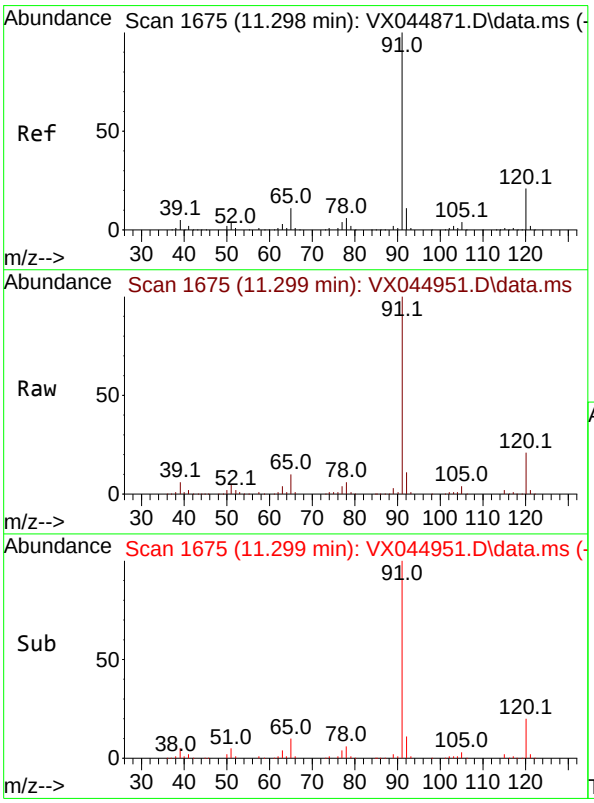
#77
Bromobenzene
Concen: 20.519 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:156 Resp: 29893

Ion	Ratio	Lower	Upper
156	100		
77	164.5	88.4	265.3
158	92.2	48.4	145.2

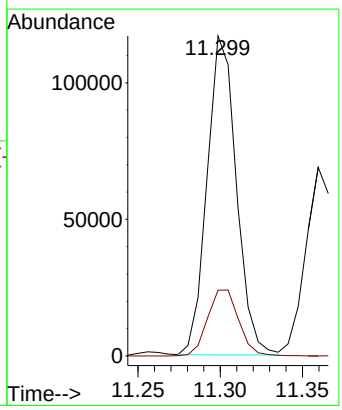


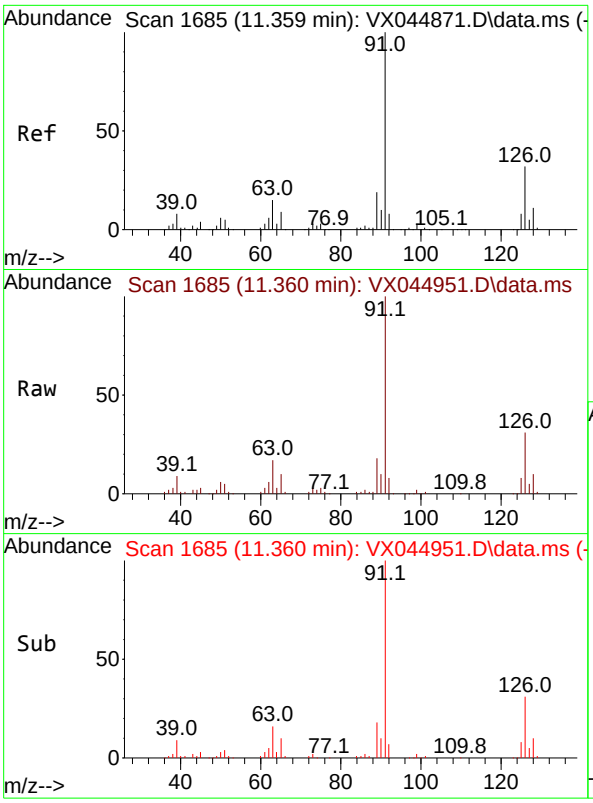


#78
n-propylbenzene
Concen: 19.510 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 91 Resp: 144703

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3



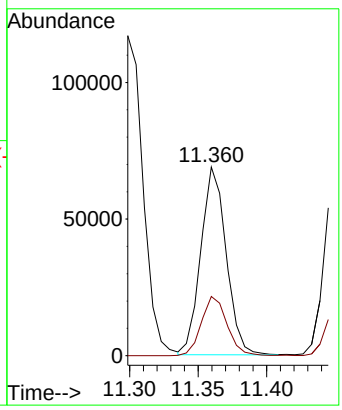


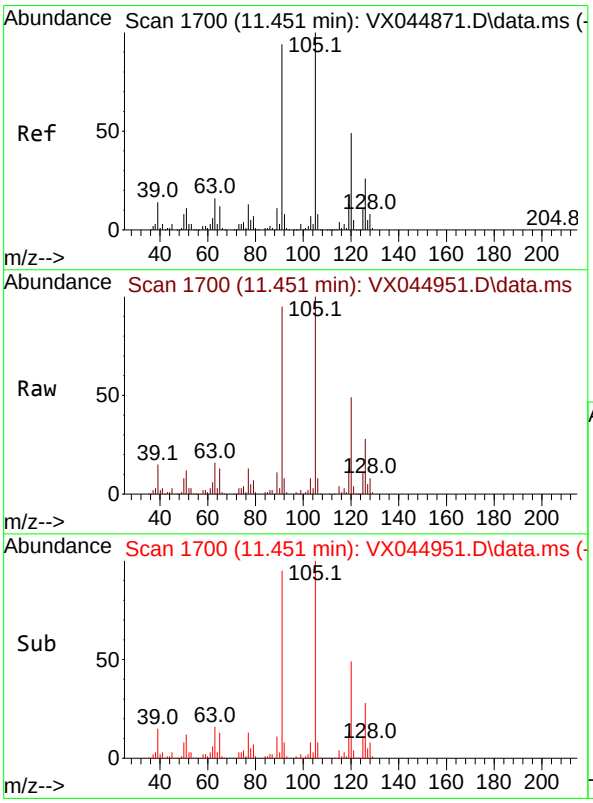
#79
2-Chlorotoluene
Concen: 19.454 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 91 Resp: 88678

Ion	Ratio	Lower	Upper
91	100		
126	31.9	16.2	48.6

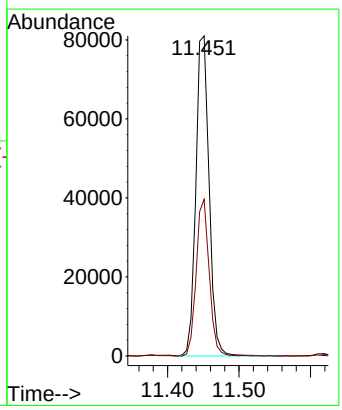


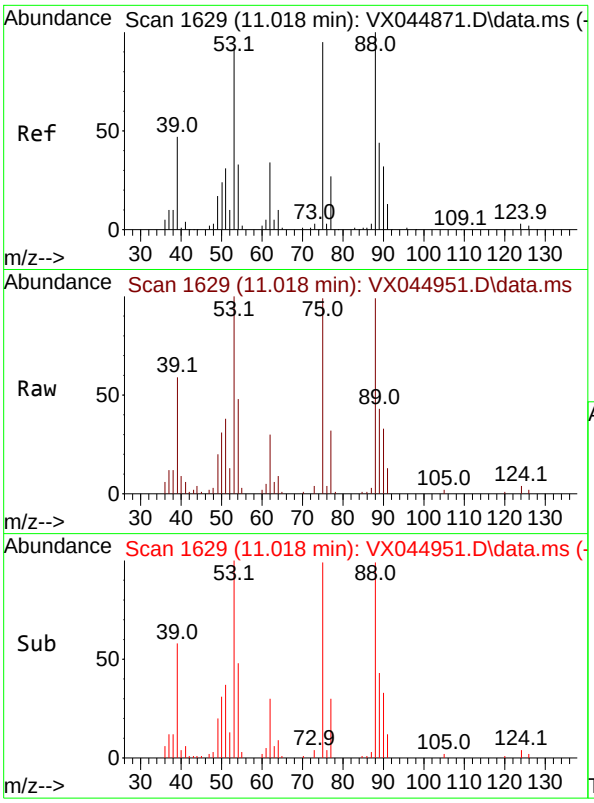


#80
1,3,5-Trimethylbenzene
Concen: 19.987 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:105 Resp: 104223

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.0	72.0



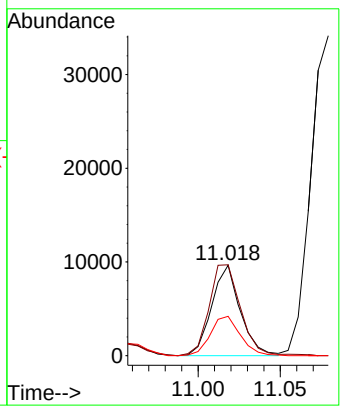


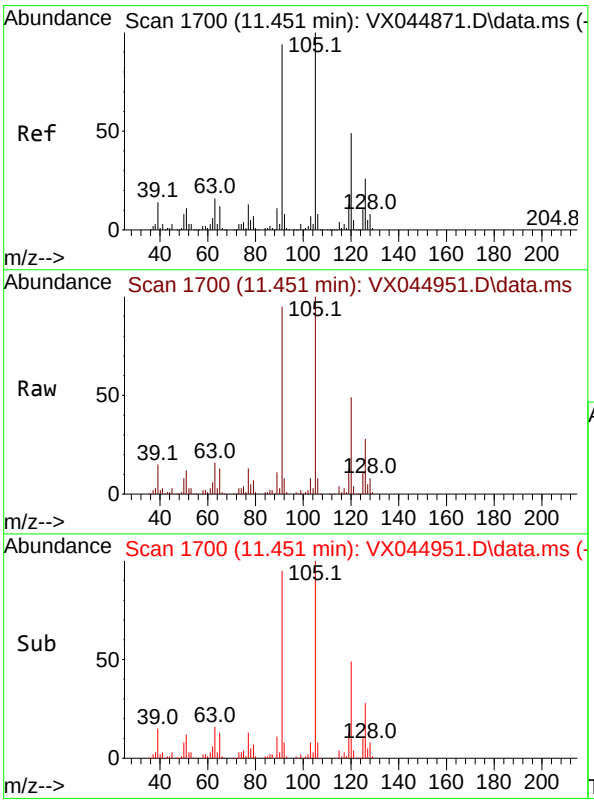
#81
trans-1,4-Dichloro-2-butene
Concen: 16.914 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 75 Resp: 11634

Ion	Ratio	Lower	Upper
75	100		
53	111.0	78.0	117.0
89	45.9	36.6	54.8

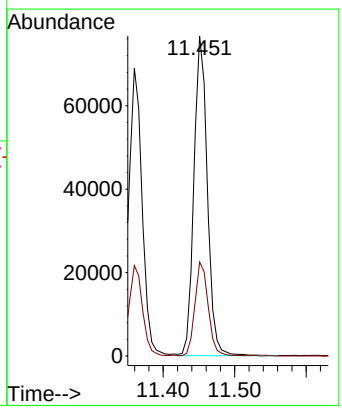


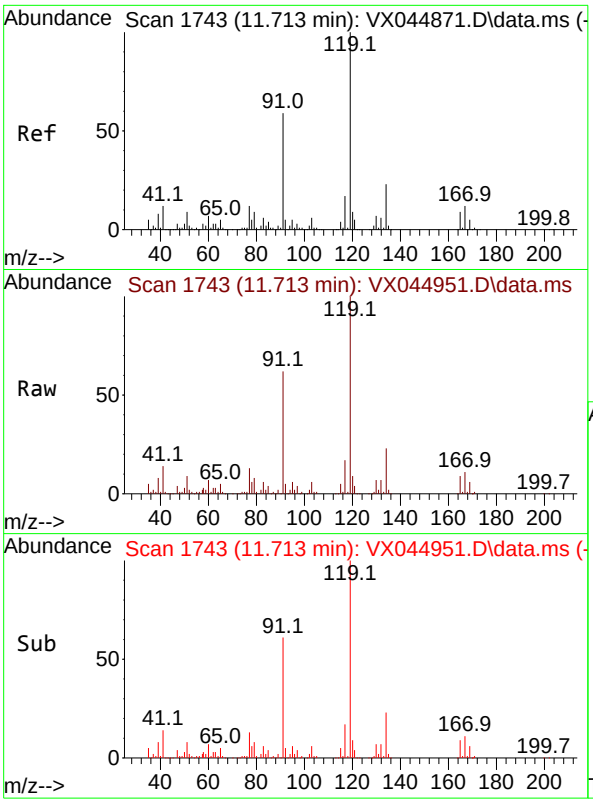


#82
4-Chlorotoluene
Concen: 19.736 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 91 Resp: 99533

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.2	42.6



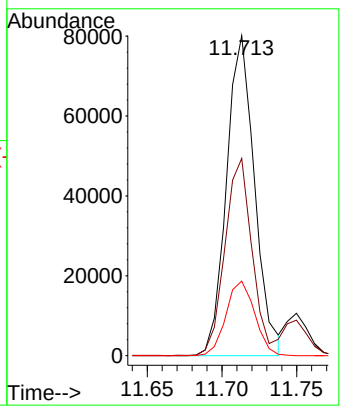


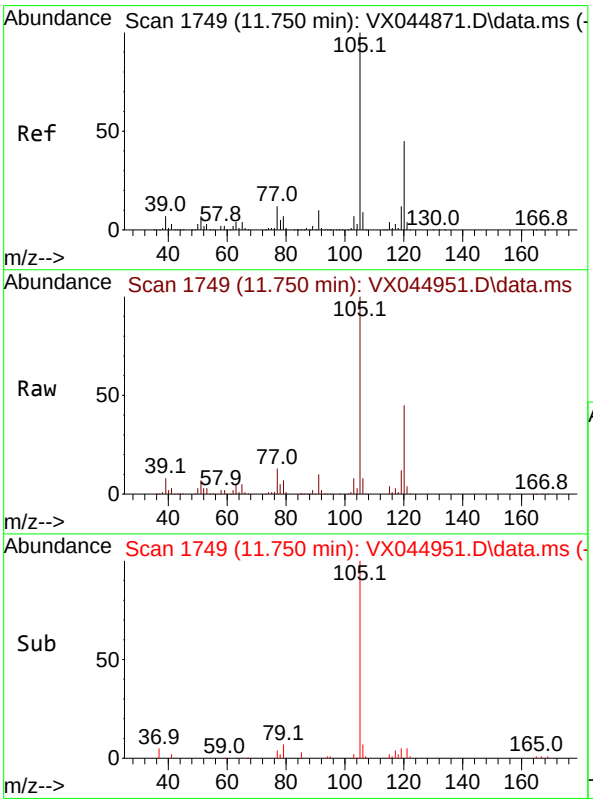
#83
tert-Butylbenzene
Concen: 19.838 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:119 Resp: 104653

Ion	Ratio	Lower	Upper
119	100		
91	59.1	29.1	87.4
134	23.8	11.5	34.5

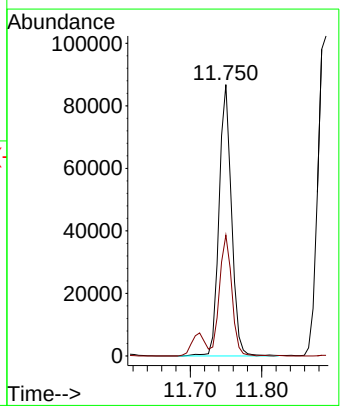


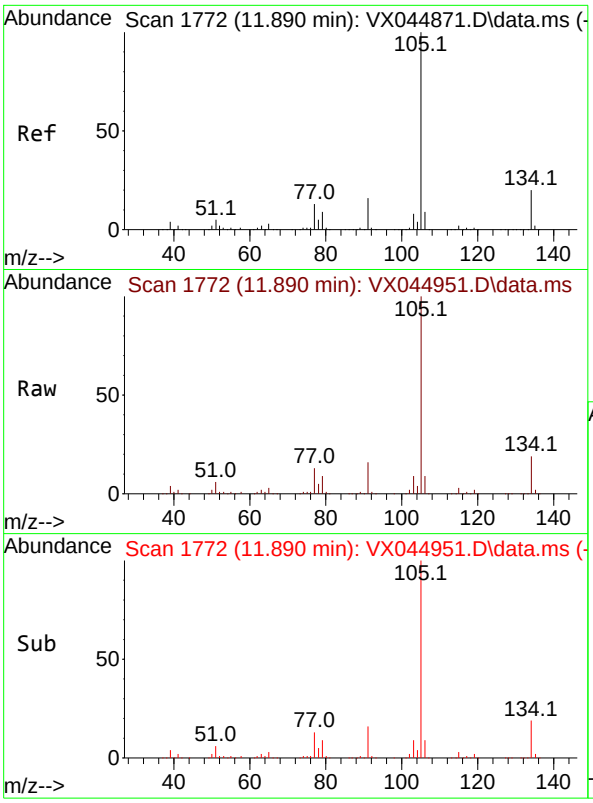


#84
1,2,4-Trimethylbenzene
Concen: 20.366 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:105 Resp: 104819

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.4	67.0



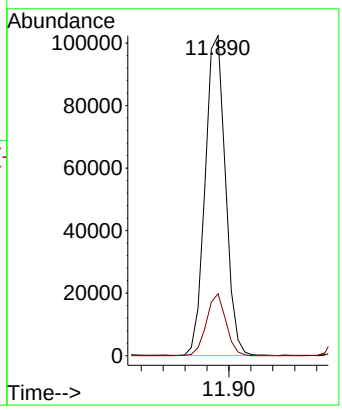


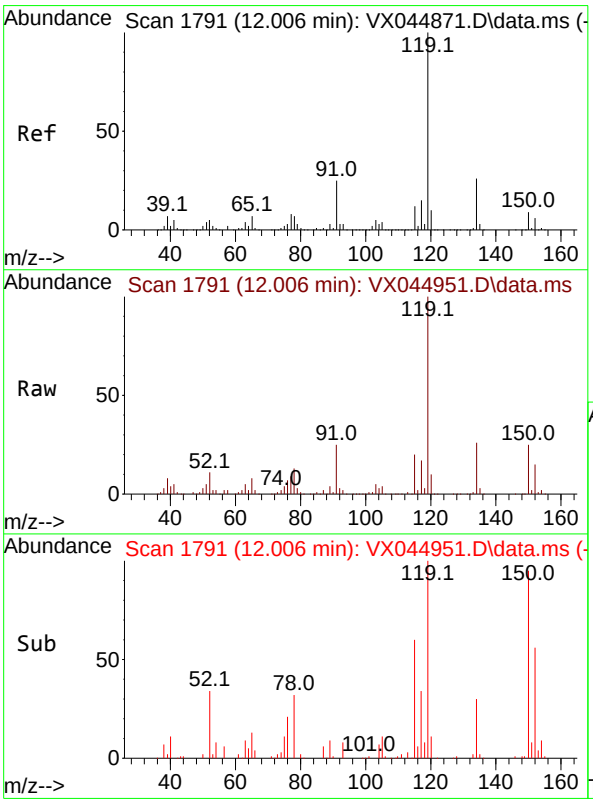
#85
sec-Butylbenzene
Concen: 20.130 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:105 Resp: 131498

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.8	29.3

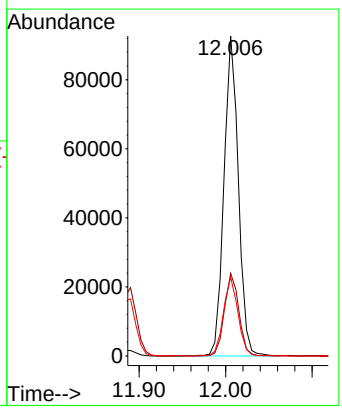


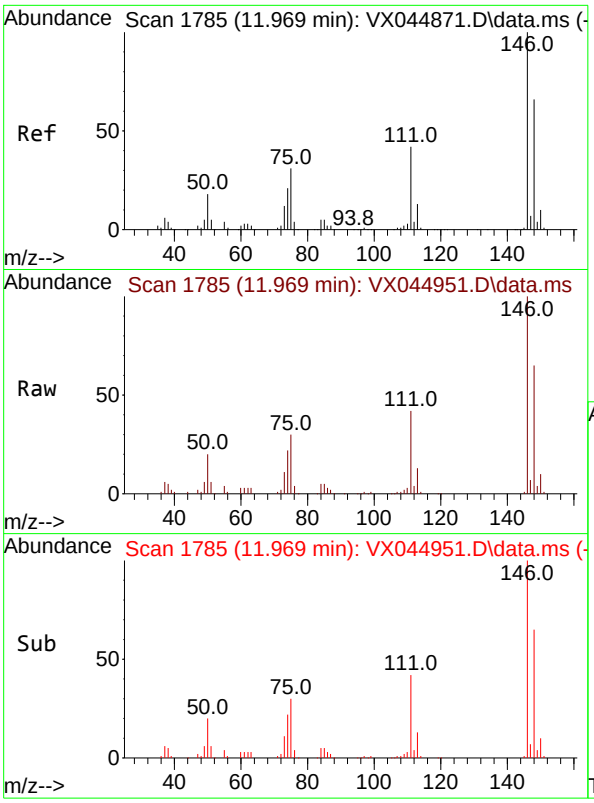


#86
p-Isopropyltoluene
Concen: 20.351 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:119 Resp: 106908

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	38.9
91	25.0	12.1	36.3



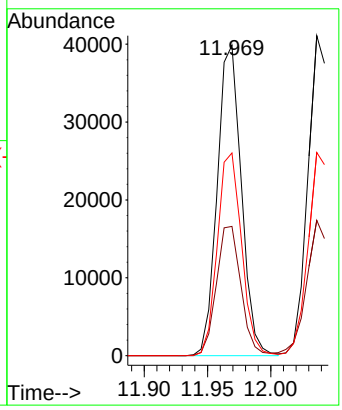


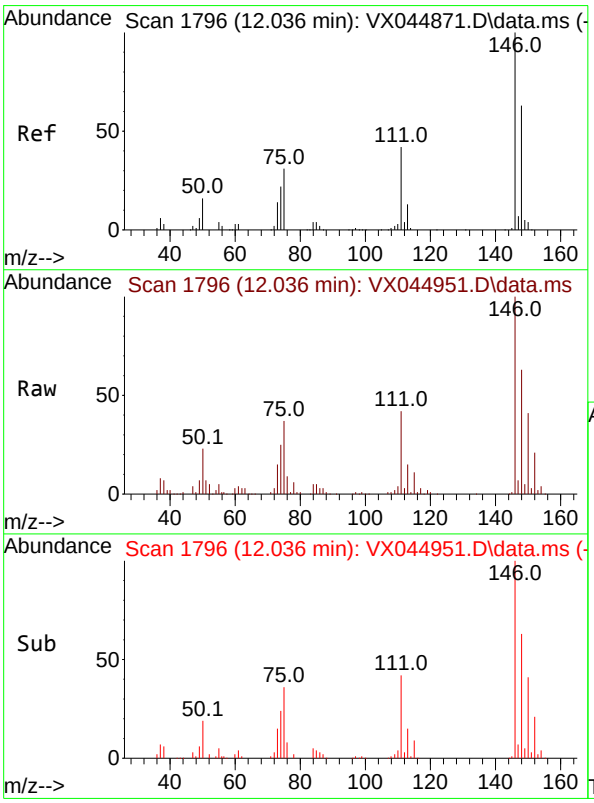
#87
1,3-Dichlorobenzene
Concen: 19.704 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:146 Resp: 52788

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	65.7	32.5	97.5

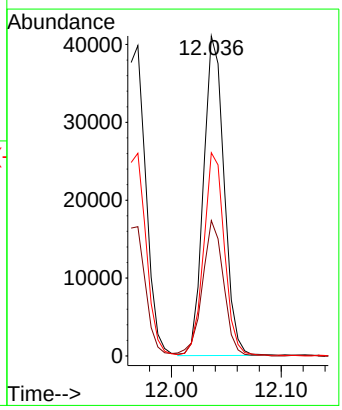


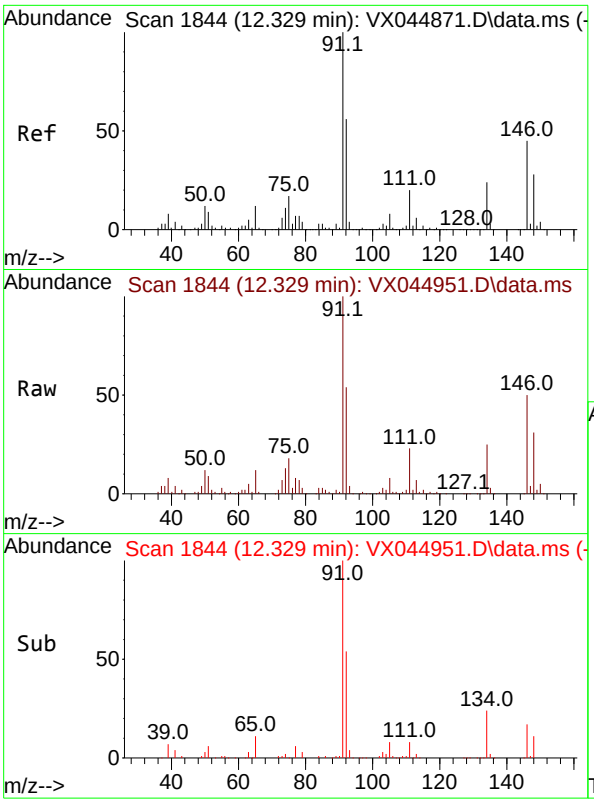


#88
1,4-Dichlorobenzene
Concen: 19.722 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:146 Resp: 53421

Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.4	61.3
148	64.7	32.0	96.0



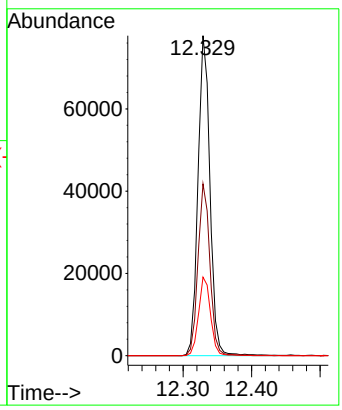


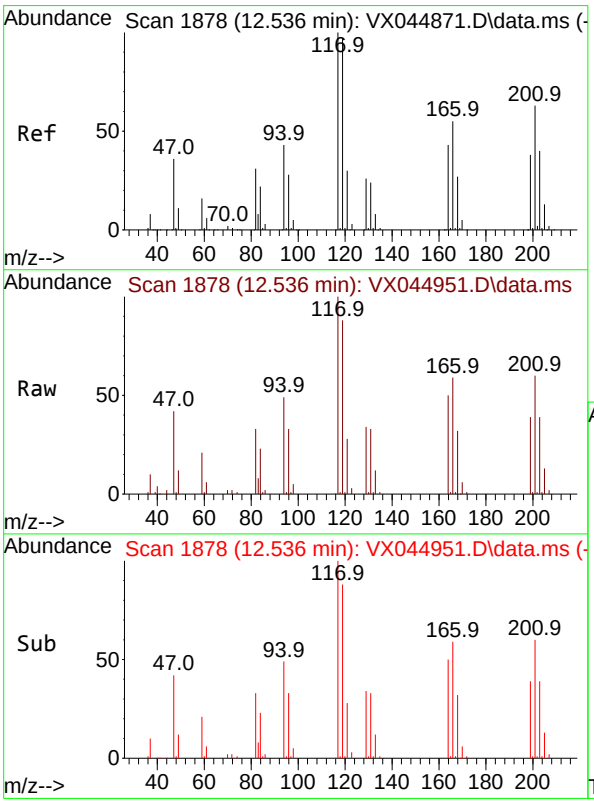
#89
n-Butylbenzene
Concen: 20.347 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion: 91 Resp: 94562

Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.2	81.6
134	24.6	12.1	36.3

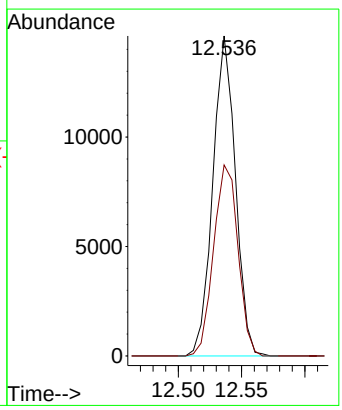


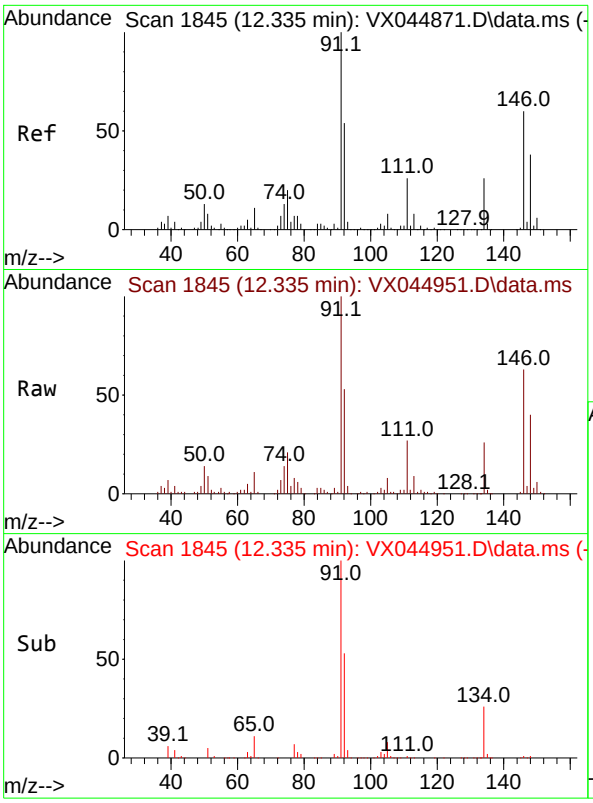


#90
Hexachloroethane
Concen: 18.433 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:117 Resp: 18131

Ion	Ratio	Lower	Upper
117	100		
201	64.5	32.5	97.5



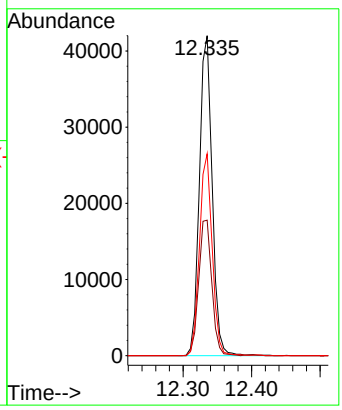


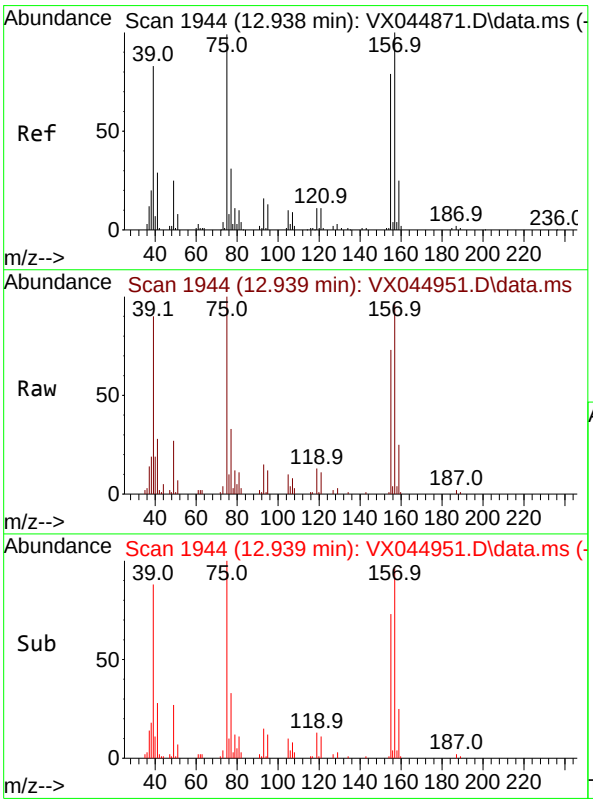
#91
1,2-Dichlorobenzene
Concen: 20.701 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:146 Resp: 54507

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.8	65.4
148	62.8	31.9	95.9

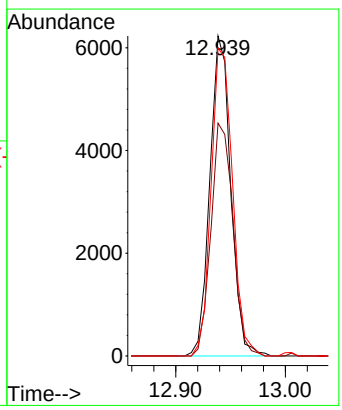


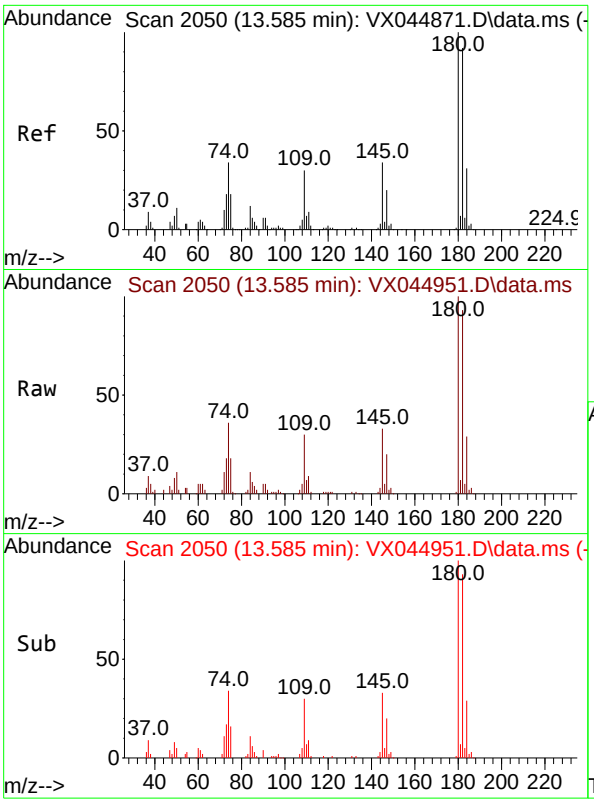


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.471 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion: 75 Resp: 8250

Ion	Ratio	Lower	Upper
75	100		
155	76.7	40.5	121.4
157	98.5	51.4	154.3



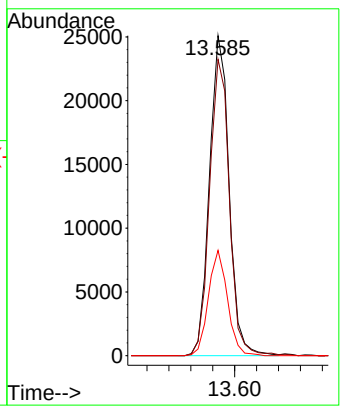


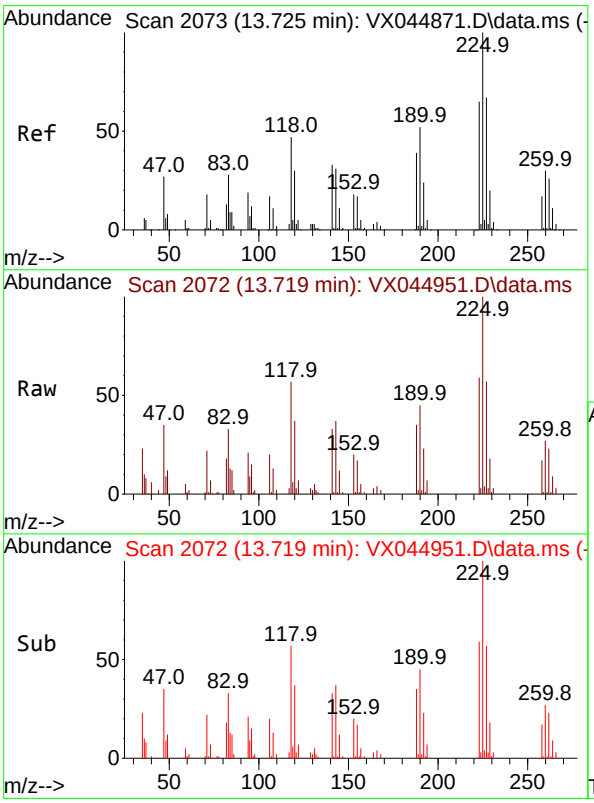
#93
1,2,4-Trichlorobenzene
Concen: 19.589 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:180 Resp: 31211

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	32.0	16.4	49.1

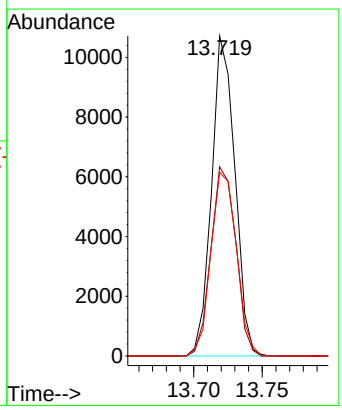


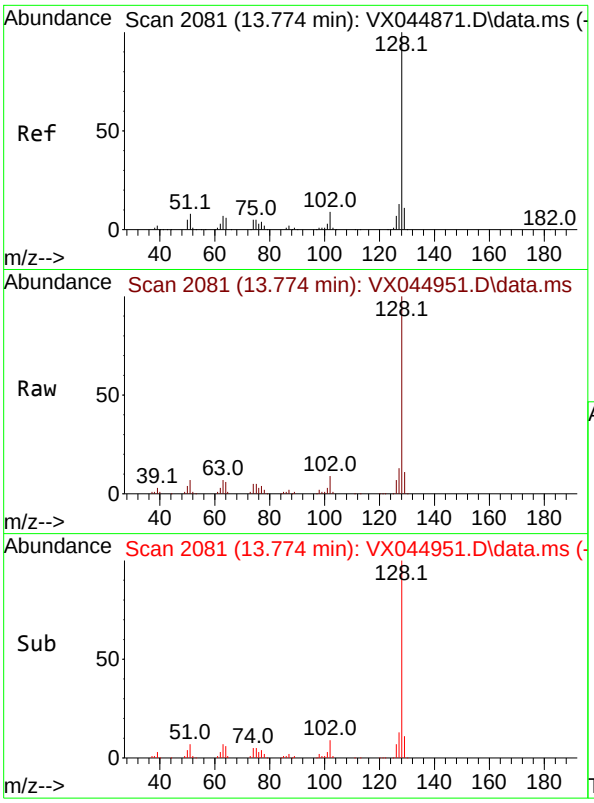


#94
Hexachlorobutadiene
Concen: 20.018 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:225 Resp: 12661

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.4	94.2
227	63.0	32.3	96.8



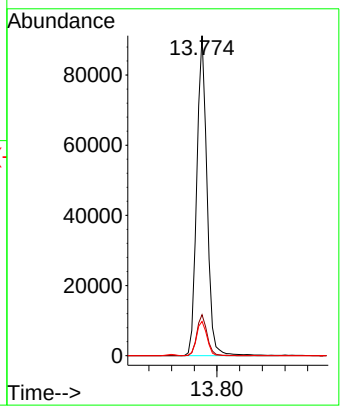


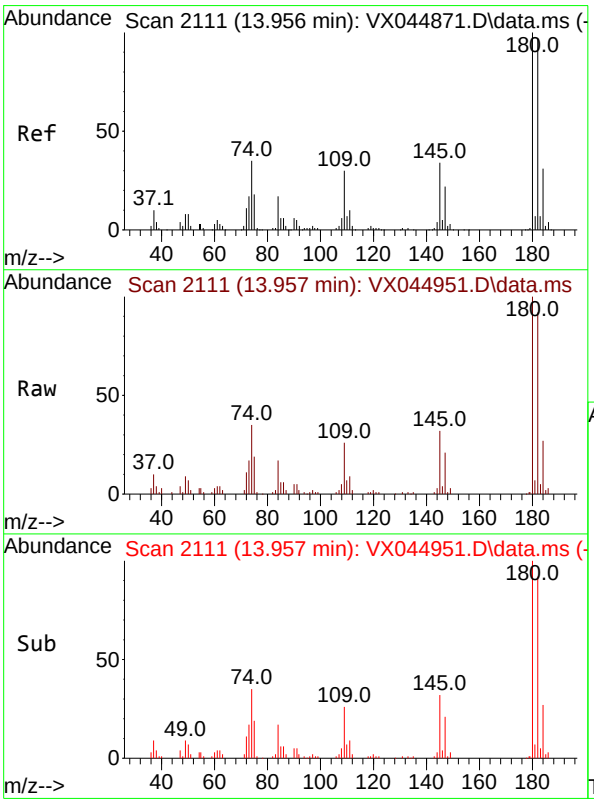
#95
Naphthalene
Concen: 19.835 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBS01

Tgt Ion:128 Resp: 114238

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.9	8.9	13.3

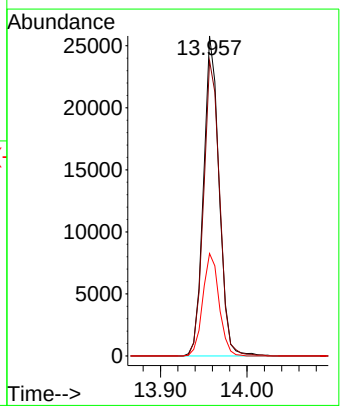




#96
1,2,3-Trichlorobenzene
Concen: 20.099 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044951.D
Acq: 14 Feb 2025 11:14

Tgt Ion:180 Resp: 32268

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.9	143.6
145	33.4	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044952.D
Acq On : 14 Feb 2025 11:40
Operator : JC/MD
Sample : VX0214WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Quant Time: Feb 14 22:12:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	103875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	184991	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	164889	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	77784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	77707	51.105	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.200%			
35) Dibromofluoromethane	5.379	113	60838	50.582	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.160%			
50) Toluene-d8	8.647	98	226624	49.828	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.660%			
62) 4-Bromofluorobenzene	11.079	95	81007	52.833	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27927	19.169	ug/l	99
3) Chloromethane	1.301	50	32990	18.605	ug/l	96
4) Vinyl Chloride	1.374	62	30252	17.611	ug/l	100
5) Bromomethane	1.593	94	11122	21.636	ug/l	97
6) Chloroethane	1.666	64	16528	22.848	ug/l	100
7) Trichlorofluoromethane	1.874	101	42055	19.359	ug/l	98
8) Diethyl Ether	2.130	74	15615	19.820	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	26009	19.816	ug/l	99
10) Methyl Iodide	2.447	142	32276	18.974	ug/l	97
11) Tert butyl alcohol	2.971	59	29076	103.075	ug/l	99
12) 1,1-Dichloroethene	2.313	96	24273	18.130	ug/l	97
13) Acrolein	2.233	56	31135	106.978	ug/l	98
14) Allyl chloride	2.660	41	45037	18.613	ug/l	98
15) Acrylonitrile	3.062	53	78868	104.716	ug/l	99
16) Acetone	2.380	43	64564	105.623	ug/l	96
17) Carbon Disulfide	2.508	76	60307	16.426	ug/l	100
18) Methyl Acetate	2.697	43	41481	21.504	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	84252	19.778	ug/l	99
20) Methylene Chloride	2.782	84	28525	19.052	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	24497	18.590	ug/l	100
22) Diisopropyl ether	3.757	45	91929	20.082	ug/l	94
23) Vinyl Acetate	3.715	43	372164	99.722	ug/l	99
24) 1,1-Dichloroethane	3.605	63	50075	19.550	ug/l	99
25) 2-Butanone	4.556	43	105945	106.736	ug/l	97
26) 2,2-Dichloropropane	4.465	77	37106	18.267	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	30448	19.237	ug/l	99
28) Bromochloromethane	4.891	49	22191	18.027	ug/l	100
29) Tetrahydrofuran	5.001	42	68840	104.445	ug/l	99
30) Chloroform	5.093	83	49641	19.984	ug/l	96
31) Cyclohexane	5.458	56	44062	18.660	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	40495	19.219	ug/l	98
36) 1,1-Dichloropropene	5.684	75	32376	18.658	ug/l	99
37) Ethyl Acetate	4.715	43	40204	20.830	ug/l	99
38) Carbon Tetrachloride	5.666	117	33498	19.700	ug/l	93
39) Methylcyclohexane	7.373	83	44129	19.671	ug/l	98
40) Benzene	6.031	78	106024	19.567	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044952.D
Acq On : 14 Feb 2025 11:40
Operator : JC/MD
Sample : VX0214WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Quant Time: Feb 14 22:12:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	23036	22.298	ug/l		98
42) 1,2-Dichloroethane	6.080	62	37652	21.803	ug/l		100
43) Isopropyl Acetate	6.336	43	64357	20.648	ug/l		98
44) Trichloroethene	7.123	130	24052	19.420	ug/l		96
45) 1,2-Dichloropropane	7.427	63	26311	19.518	ug/l		99
46) Dibromomethane	7.580	93	19515	20.875	ug/l		98
47) Bromodichloromethane	7.818	83	37748	20.853	ug/l		97
48) Methyl methacrylate	7.690	41	31848	21.671	ug/l		97
49) 1,4-Dioxane	7.659	88	13982	443.448	ug/l		98
51) 4-Methyl-2-Pentanone	8.567	43	219588	115.888	ug/l		97
52) Toluene	8.714	92	63830	19.780	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	35347	19.296	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	40620	19.889	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	26556	21.408	ug/l		98
56) Ethyl methacrylate	9.116	69	41272	20.600	ug/l		99
57) 1,3-Dichloropropane	9.305	76	45713	21.061	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	99532	101.176	ug/l		99
59) 2-Hexanone	9.427	43	159284	116.671	ug/l		99
60) Dibromochloromethane	9.519	129	28129	21.203	ug/l		97
61) 1,2-Dibromoethane	9.604	107	27025	21.494	ug/l		97
64) Tetrachloroethene	9.269	164	21103	20.294	ug/l		96
65) Chlorobenzene	10.073	112	70853	20.006	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	22743	19.951	ug/l		98
67) Ethyl Benzene	10.189	91	122687	19.631	ug/l		100
68) m/p-Xylenes	10.299	106	92530	40.136	ug/l		99
69) o-Xylene	10.640	106	45891	19.838	ug/l		97
70) Styrene	10.652	104	77302	20.741	ug/l		99
71) Bromoform	10.799	173	18090	21.264	ug/l	#	100
73) Isopropylbenzene	10.957	105	117063	18.691	ug/l		99
74) N-amyl acetate	10.841	43	55559	19.604	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	42130	19.576	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	42262	24.506	ug/l		85
77) Bromobenzene	11.195	156	27335	19.251	ug/l		99
78) n-propylbenzene	11.299	91	138085	19.101	ug/l		100
79) 2-Chlorotoluene	11.360	91	84337	18.982	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	98051	19.292	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	11059	16.496	ug/l		89
82) 4-Chlorotoluene	11.451	91	94538	19.233	ug/l		99
83) tert-Butylbenzene	11.713	119	99538	19.359	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	100112	19.957	ug/l		100
85) sec-Butylbenzene	11.890	105	126113	19.808	ug/l		99
86) p-Isopropyltoluene	12.006	119	103751	20.263	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	50550	19.359	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	51205	19.395	ug/l		99
89) n-Butylbenzene	12.329	91	90481	19.975	ug/l		99
90) Hexachloroethane	12.536	117	17246	17.989	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	52530	20.469	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7941	20.217	ug/l		94
93) 1,2,4-Trichlorobenzene	13.585	180	29608	19.066	ug/l		98
94) Hexachlorobutadiene	13.725	225	12223	19.827	ug/l		98
95) Naphthalene	13.774	128	110366	19.661	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	30613	19.564	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044952.D
Acq On : 14 Feb 2025 11:40
Operator : JC/MD
Sample : VX0214WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Quant Time: Feb 14 22:12:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

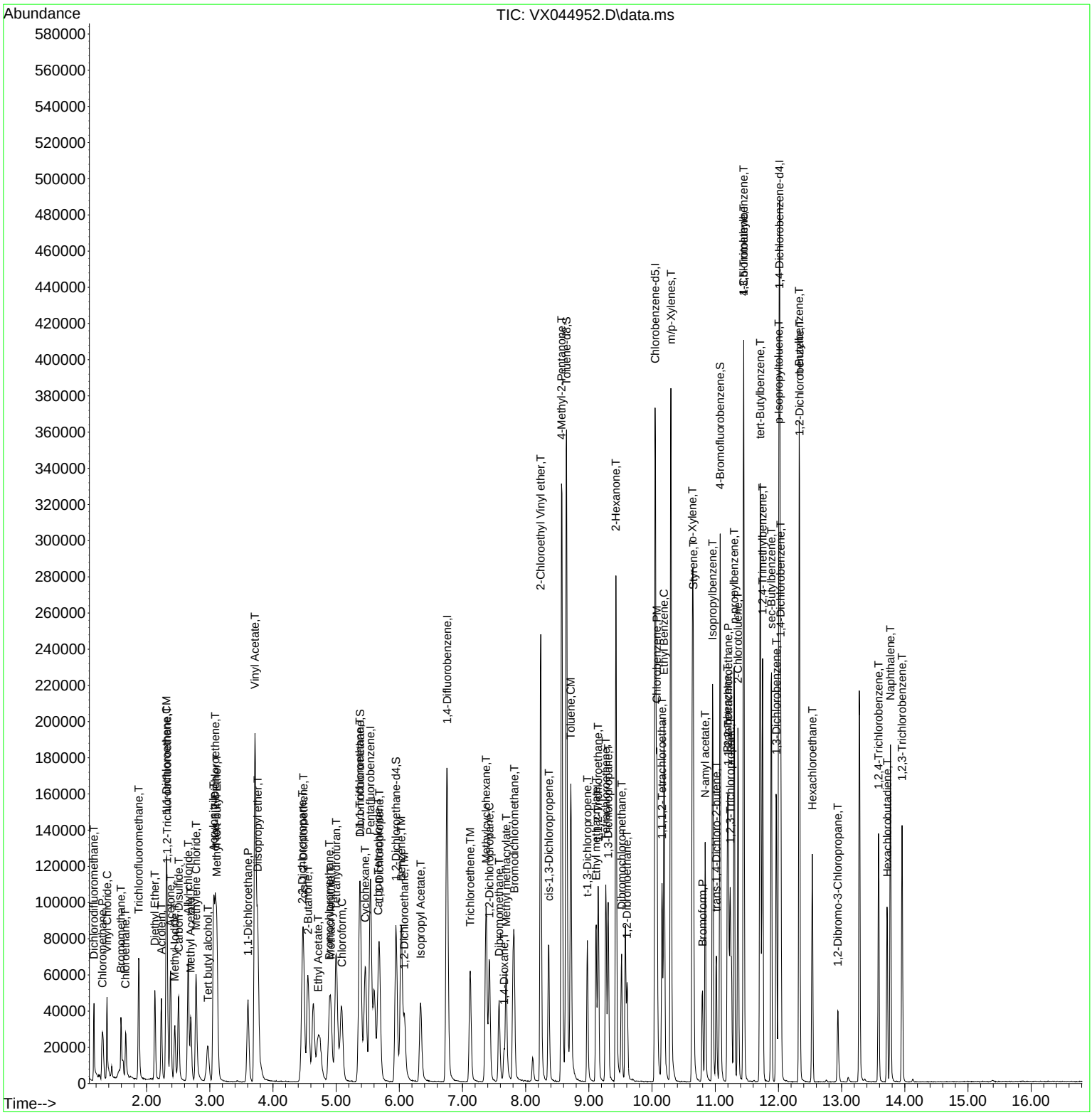
(#) = qualifier out of range (m) = manual integration (+) = signals summed

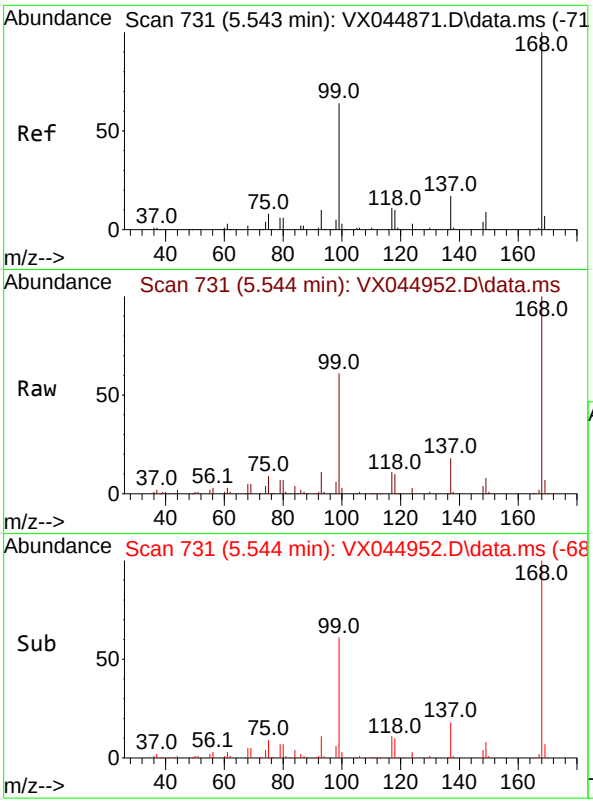
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044952.D
Acq On : 14 Feb 2025 11:40
Operator : JC/MD
Sample : VX0214WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Quant Time: Feb 14 22:12:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



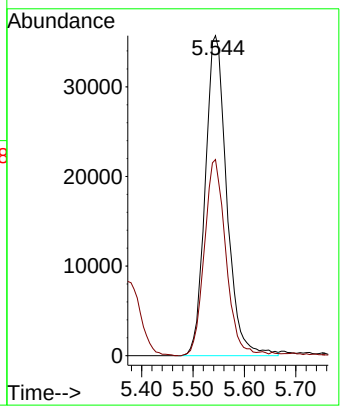


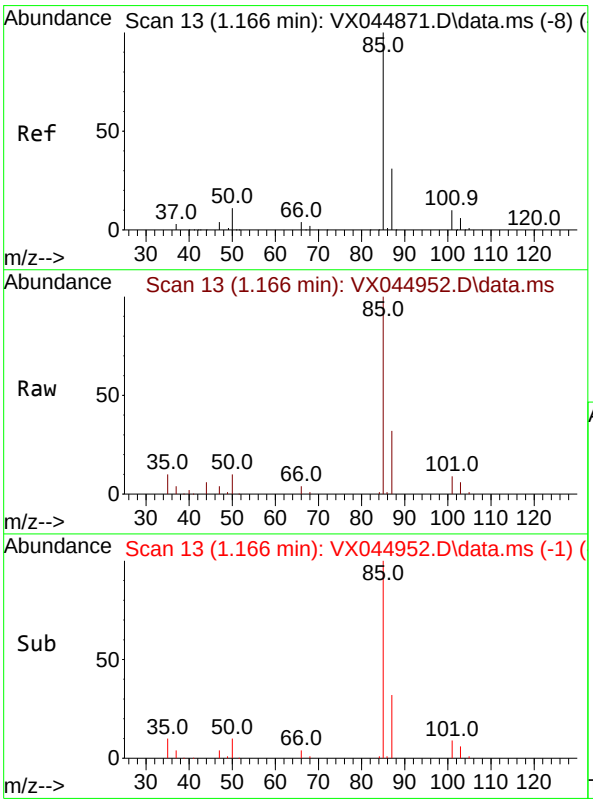
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:168 Resp: 103875

Ion	Ratio	Lower	Upper
168	100		
99	61.3	51.2	76.8

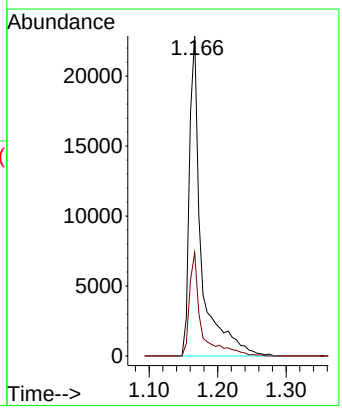


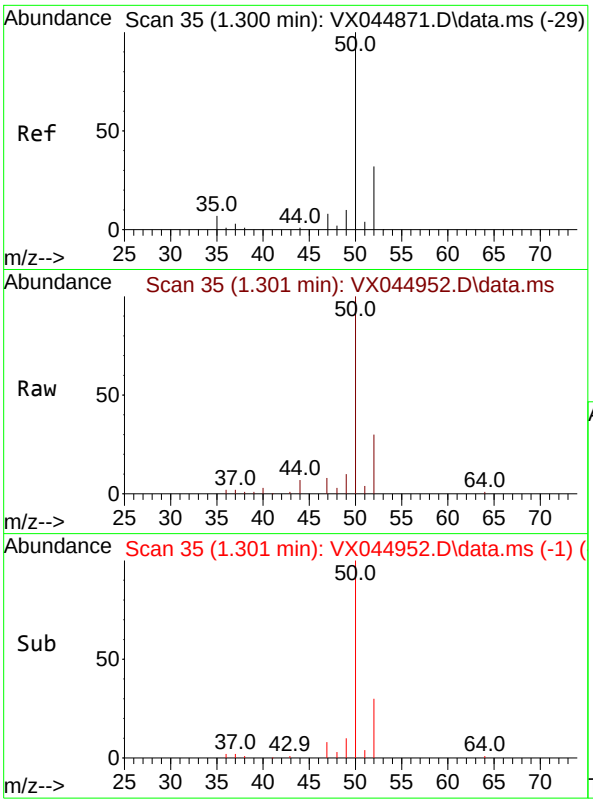


#2
Dichlorodifluoromethane
Concen: 19.169 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 85 Resp: 27927

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.3



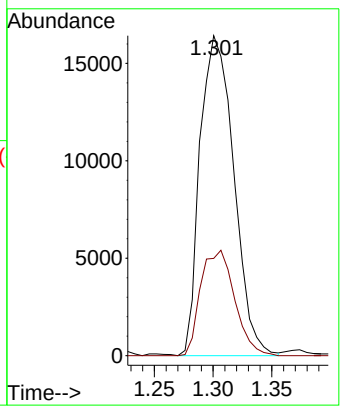


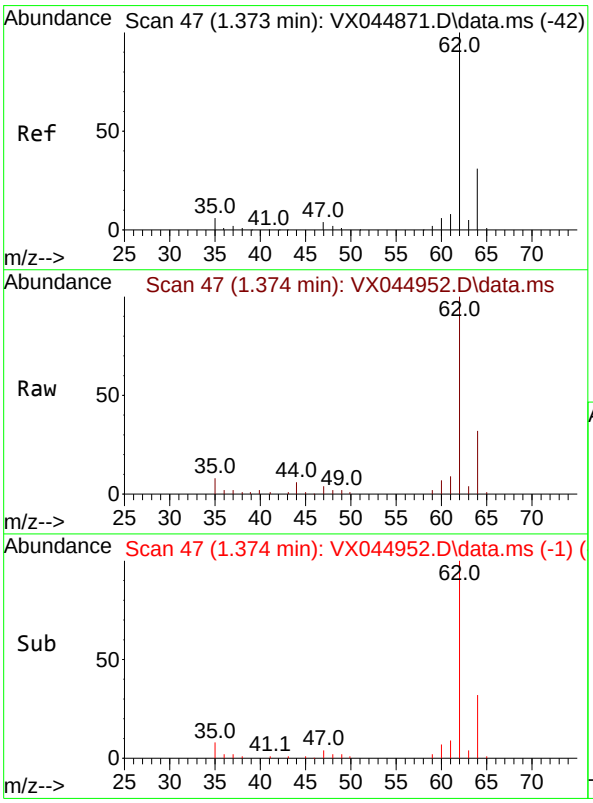
#3
Chloromethane
Concen: 18.605 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 50 Resp: 32990

Ion	Ratio	Lower	Upper
50	100		
52	30.4	25.9	38.9

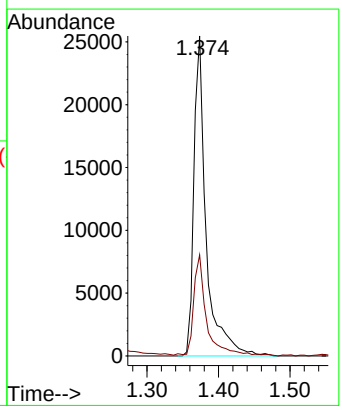


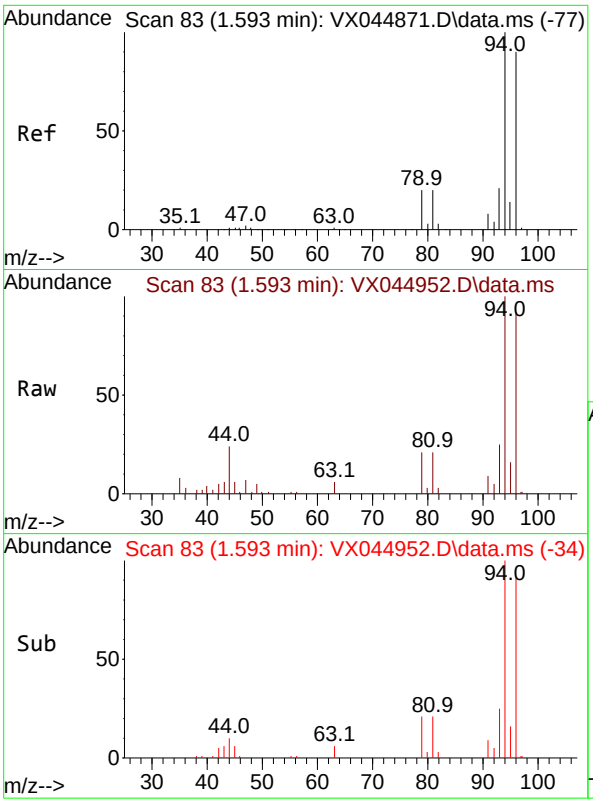


#4
Vinyl Chloride
Concen: 17.611 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 62 Resp: 30252

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.4	38.0



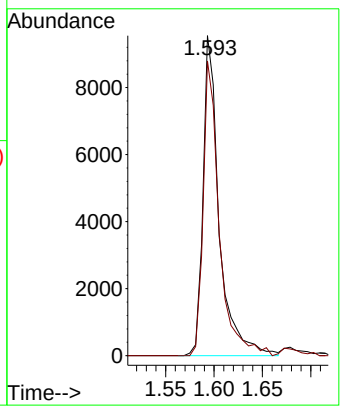


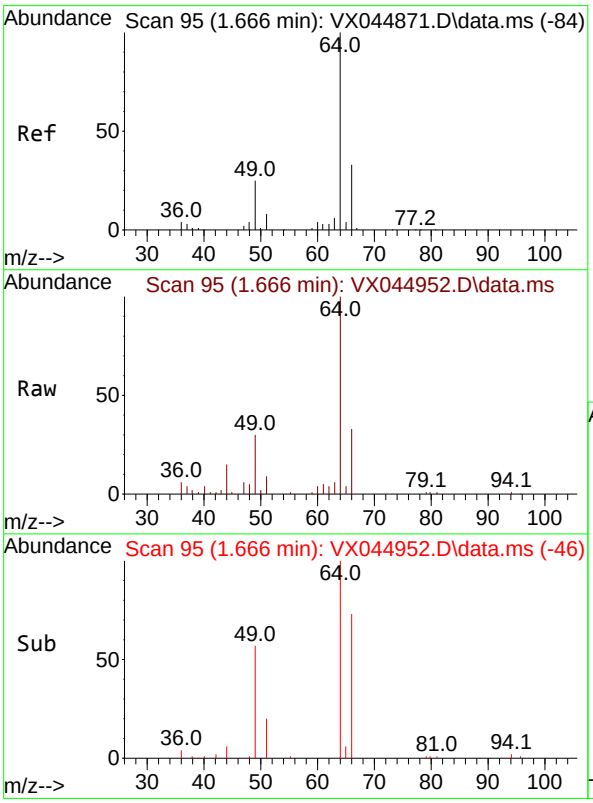
#5
Bromomethane
Concen: 21.636 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 94 Resp: 11122

Ion	Ratio	Lower	Upper
94	100		
96	92.1	71.6	107.4

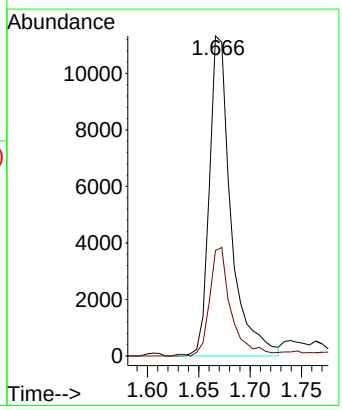


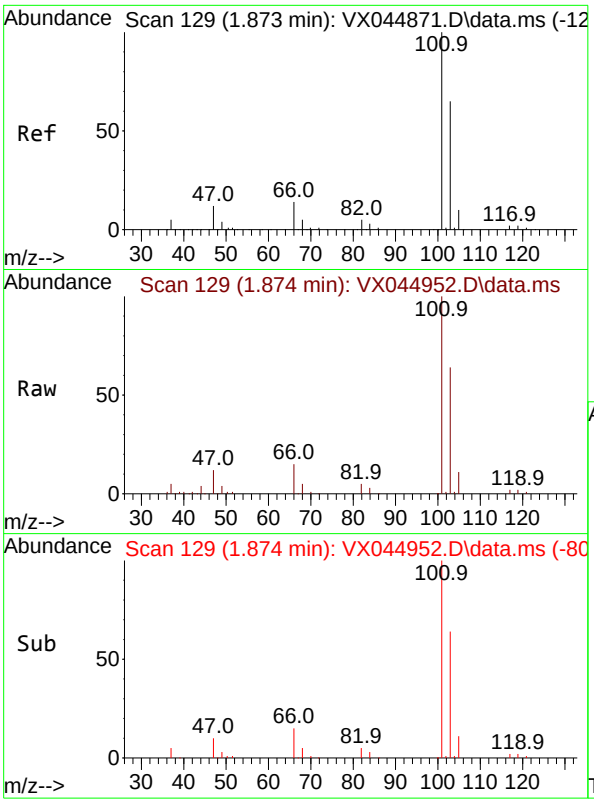


#6
Chloroethane
Concen: 22.848 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 64 Resp: 16528

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.9	38.9



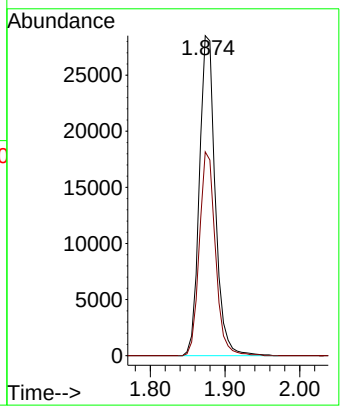


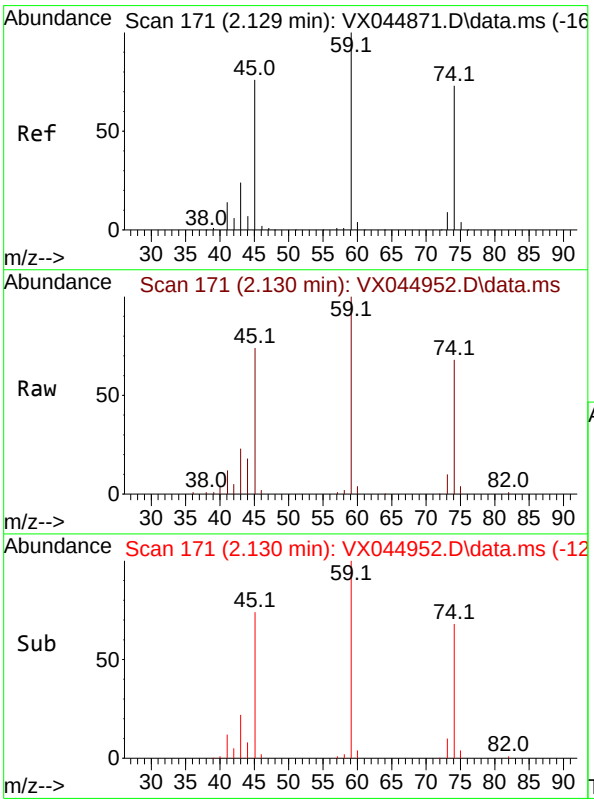
#7
Trichlorofluoromethane
Concen: 19.359 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.001 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:101 Resp: 42055

Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.4	78.6

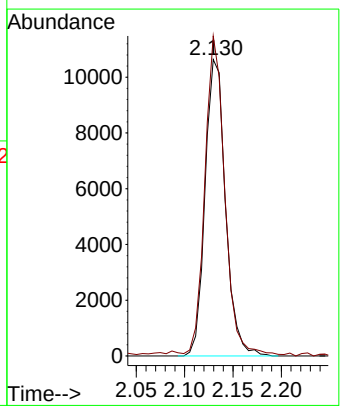


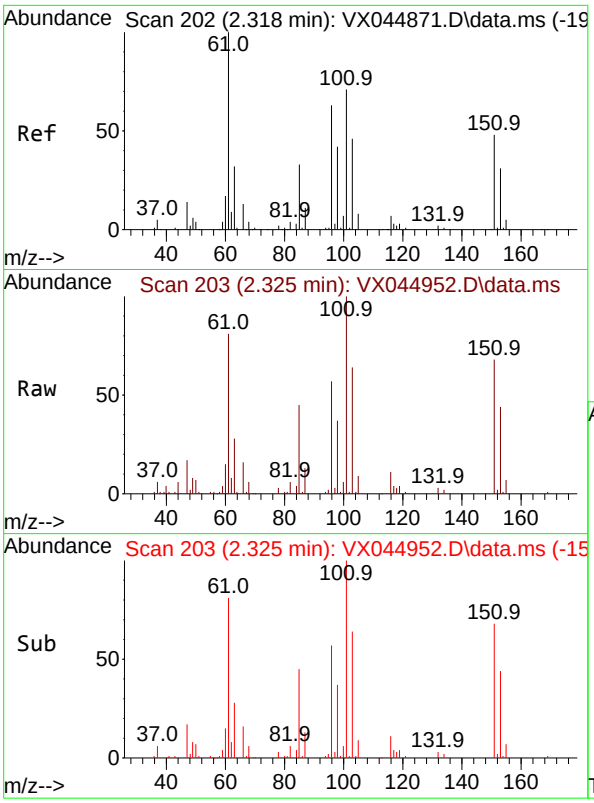


#8
Diethyl Ether
Concen: 19.820 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 74 Resp: 15615

Ion	Ratio	Lower	Upper
74	100		
45	103.6	51.1	153.4



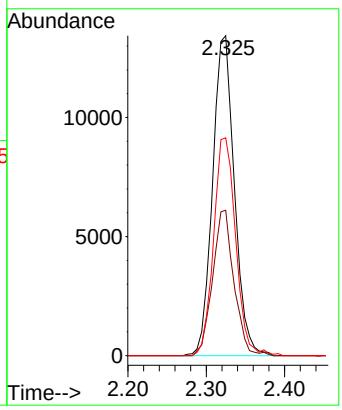


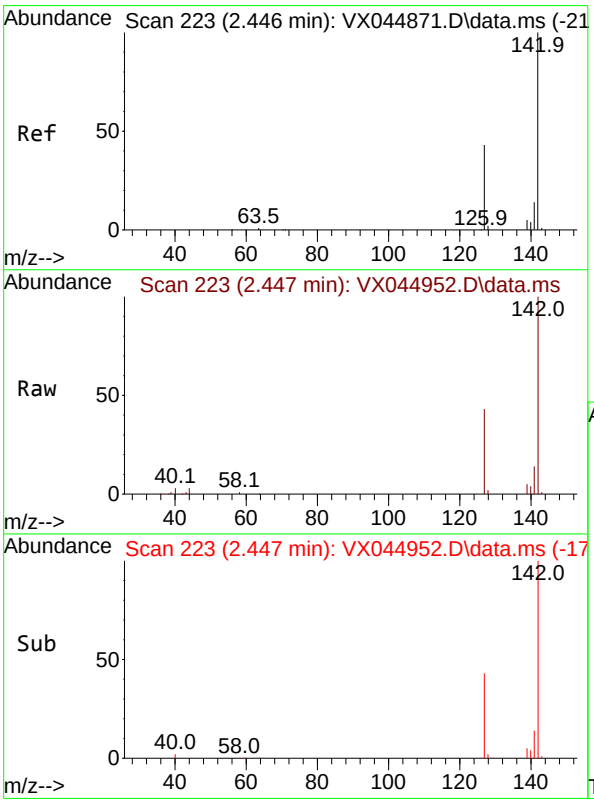
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.816 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:101 Resp: 26009

Ion	Ratio	Lower	Upper
101	100		
85	44.5	35.7	53.5
151	68.9	56.0	84.0

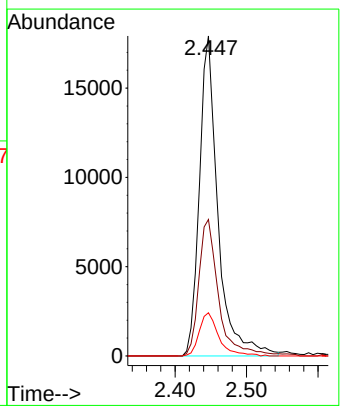


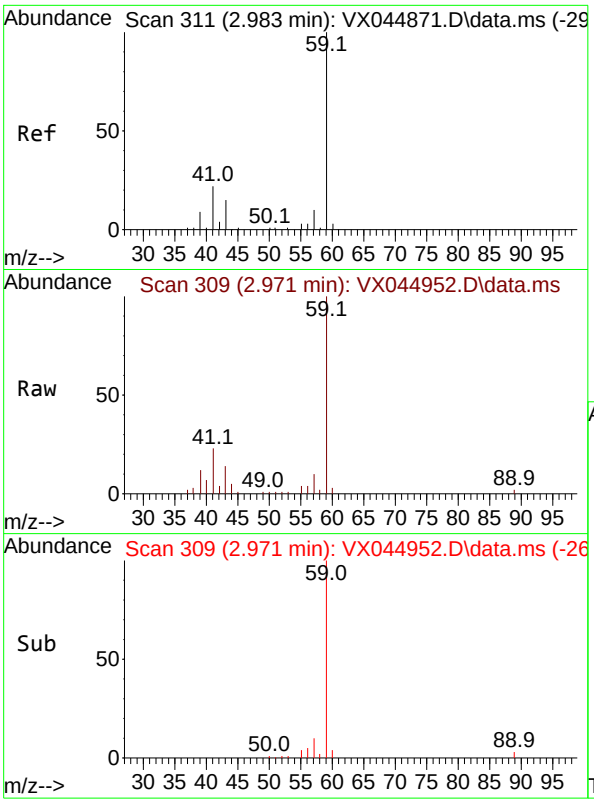


#10
Methyl Iodide
Concen: 18.974 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:142 Resp: 32276

Ion	Ratio	Lower	Upper
142	100		
127	45.7	34.3	51.5
141	14.3	11.4	17.2



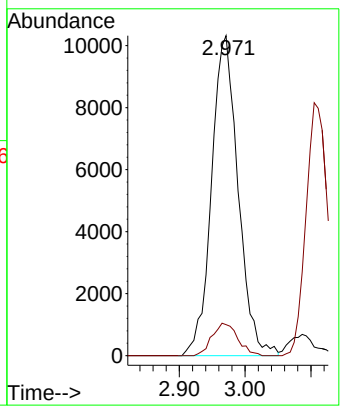


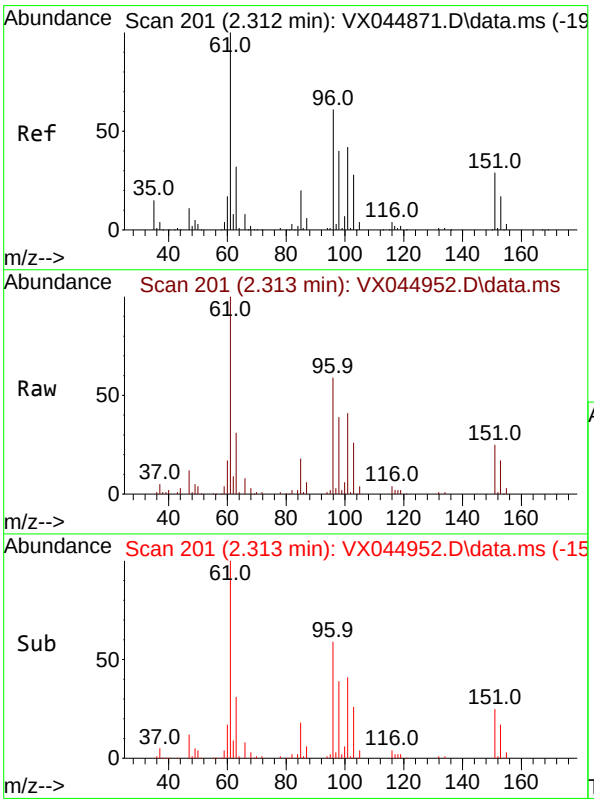
#11
Tert butyl alcohol
Concen: 103.075 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 59 Resp: 29076

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1

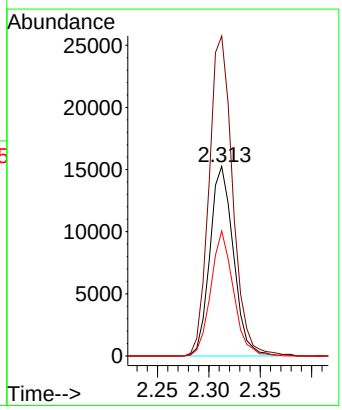


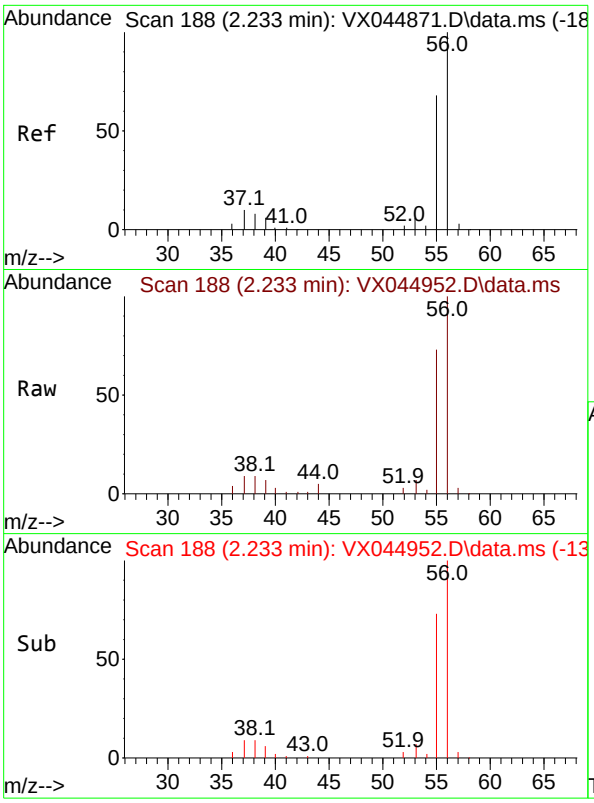


#12
1,1-Dichloroethene
Concen: 18.130 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 96 Resp: 24273

Ion	Ratio	Lower	Upper
96	100		
61	168.8	130.2	195.4
98	65.9	52.2	78.4



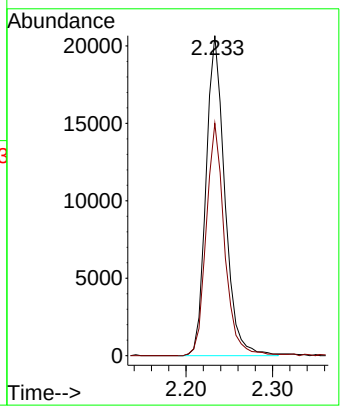


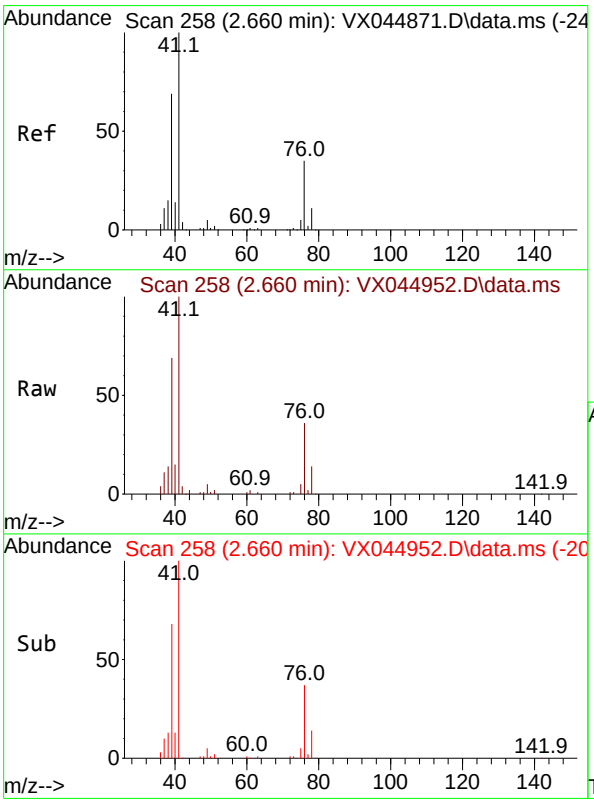
#13
Acrolein
Concen: 106.978 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 56 Resp: 31135

Ion	Ratio	Lower	Upper
56	100		
55	71.0	55.7	83.5

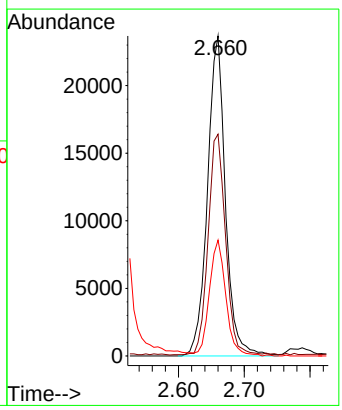


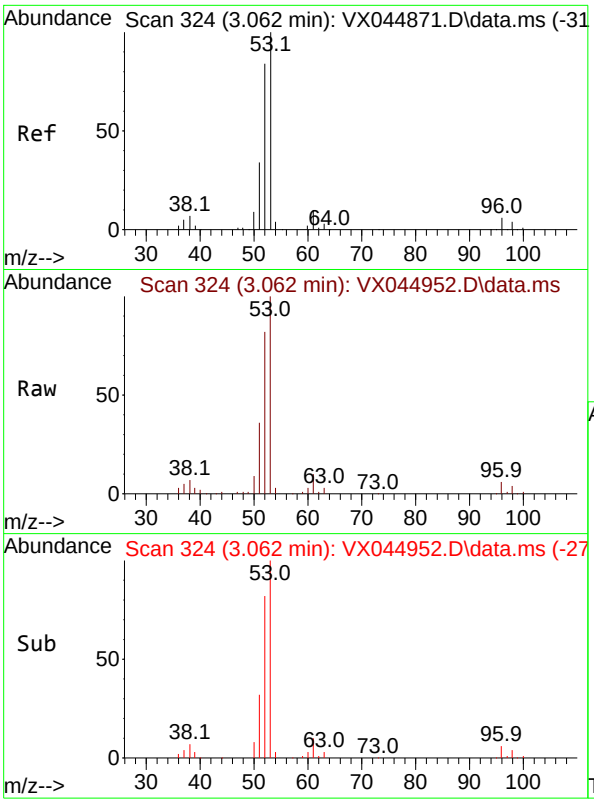


#14
Allyl chloride
Concen: 18.613 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 41 Resp: 45037

Ion	Ratio	Lower	Upper
41	100		
39	66.8	51.4	77.2
76	33.2	27.0	40.4



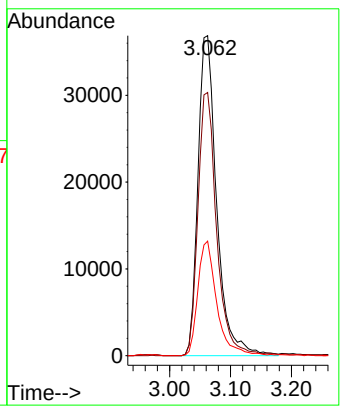


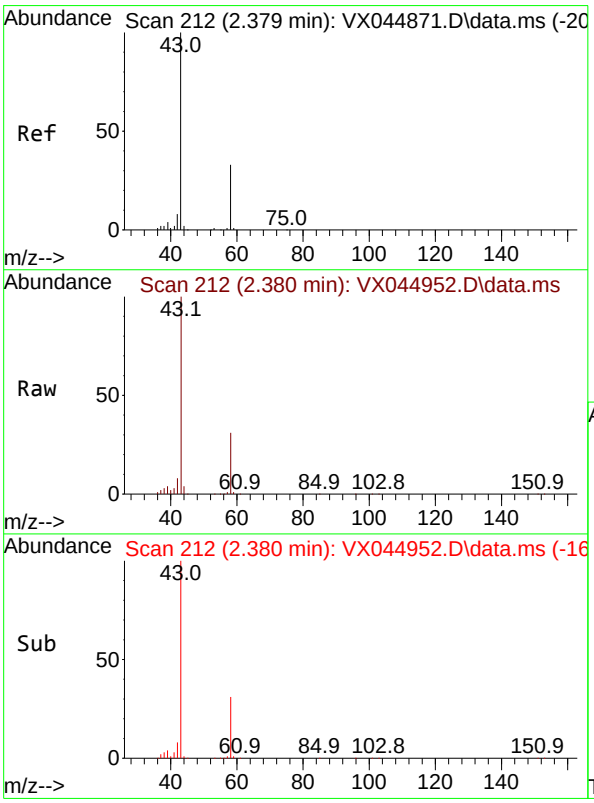
#15
Acrylonitrile
Concen: 104.716 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 53 Resp: 78868

Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.0	97.6
51	36.2	28.0	42.0

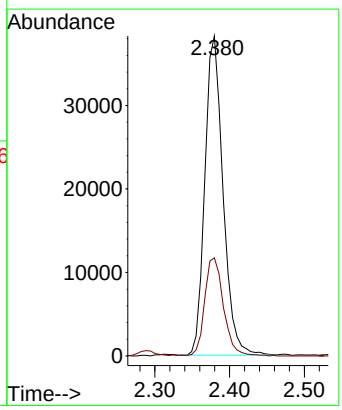


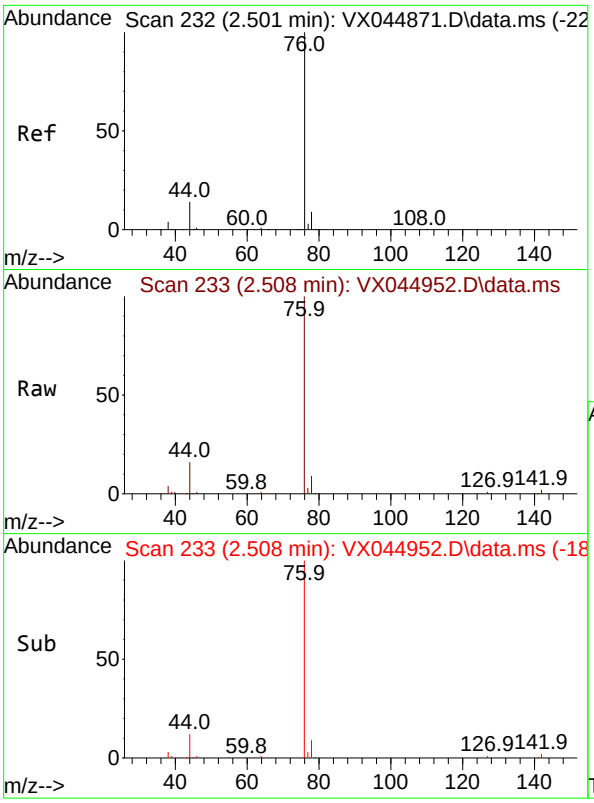


#16
Acetone
Concen: 105.623 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 64564

Ion	Ratio	Lower	Upper
43	100		
58	30.7	26.5	39.7



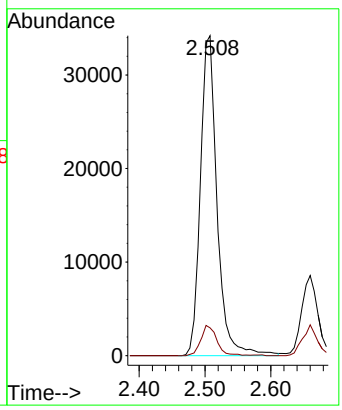


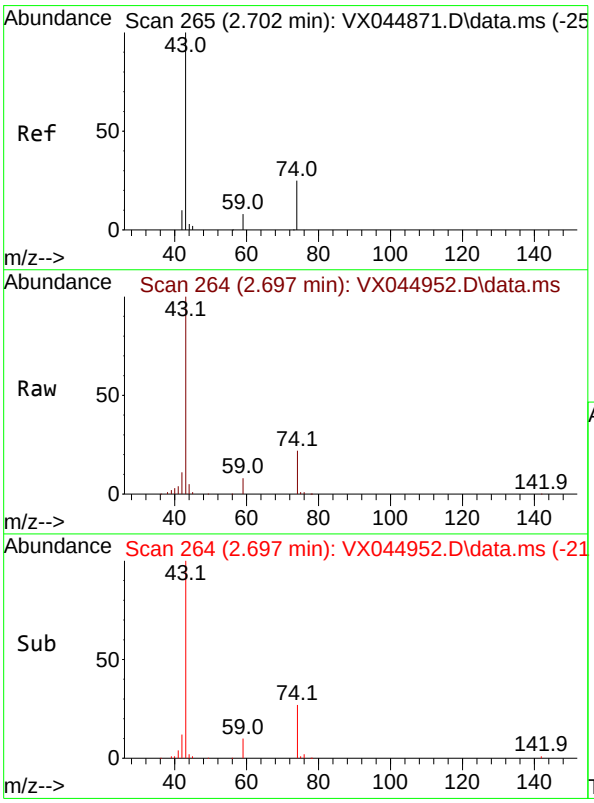
#17
Carbon Disulfide
Concen: 16.426 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 76 Resp: 60307

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

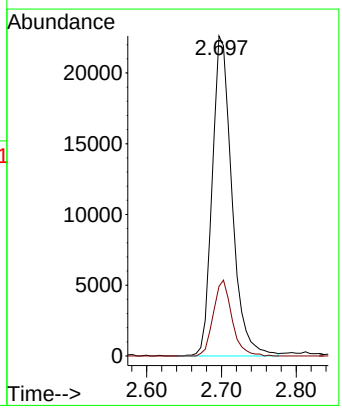


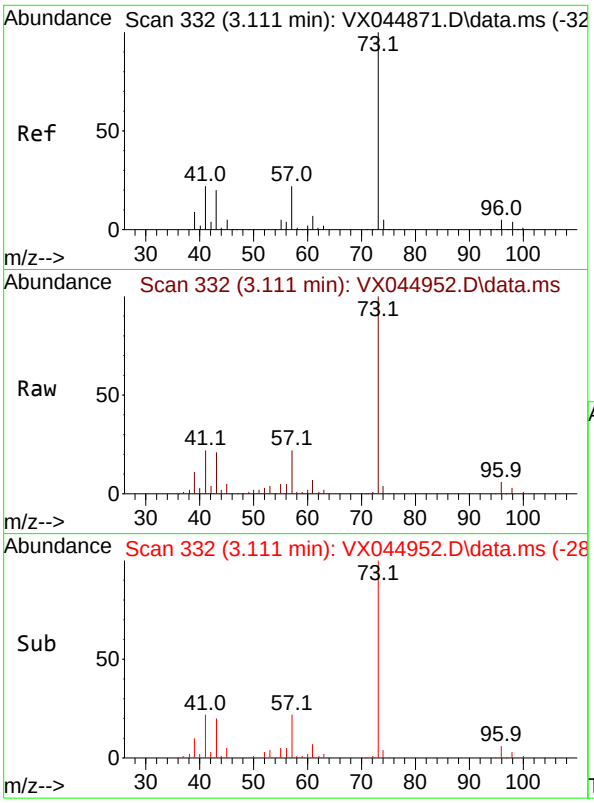


#18
Methyl Acetate
Concen: 21.504 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 41481

Ion	Ratio	Lower	Upper
43	100		
74	22.4	18.9	28.3



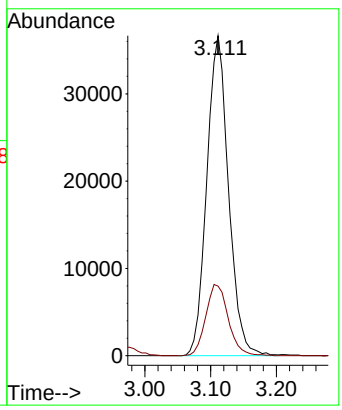


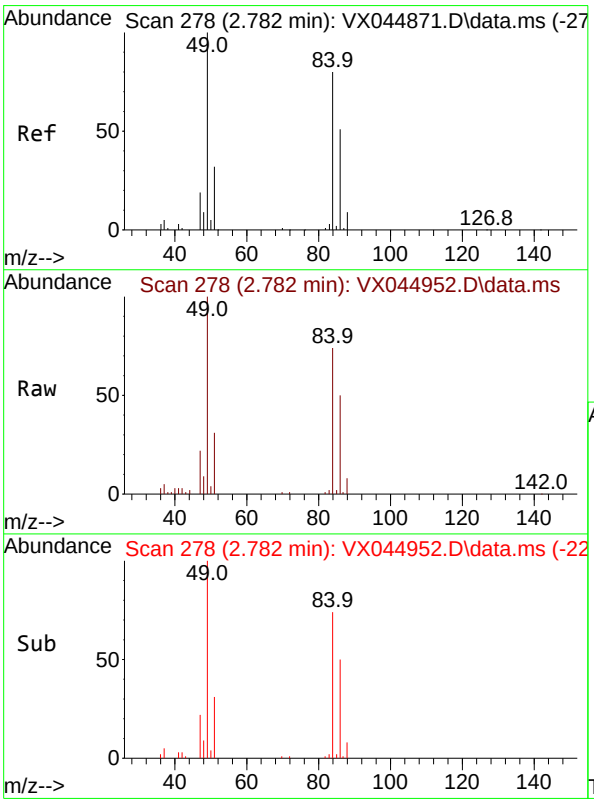
#19
Methyl tert-butyl Ether
Concen: 19.778 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 73 Resp: 84252

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.9	26.9

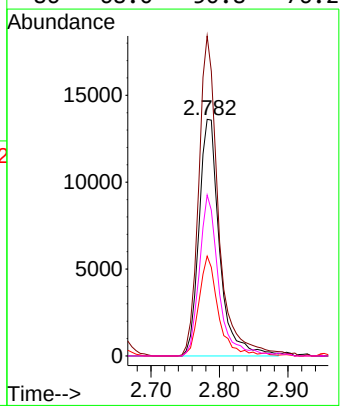


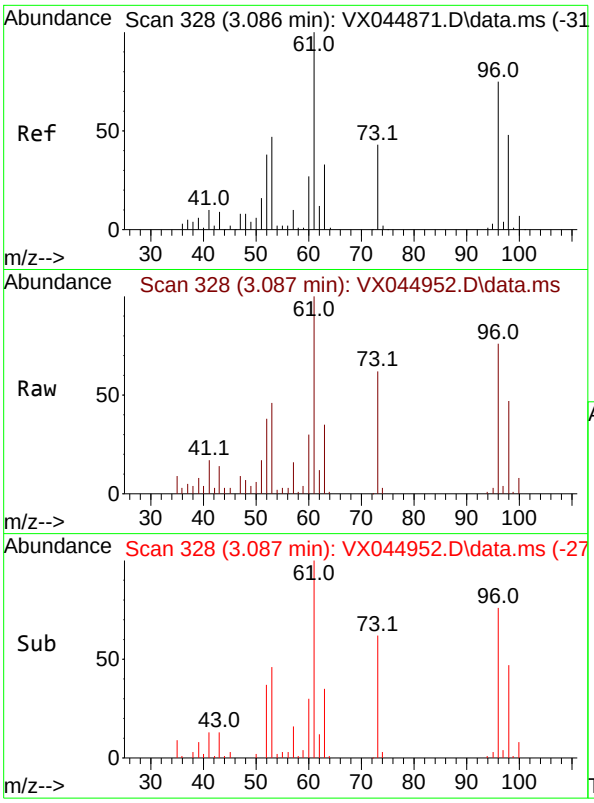


#20
Methylene Chloride
Concen: 19.052 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 84 Resp: 28525

Ion	Ratio	Lower	Upper
84	100		
49	135.3	100.1	150.1
51	42.2	31.7	47.5
86	68.0	50.8	76.2



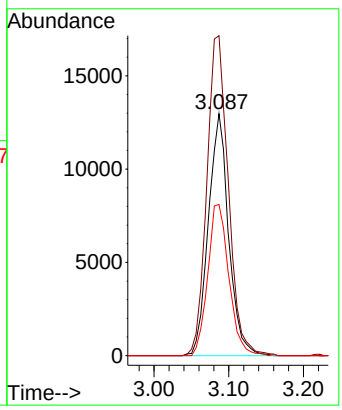


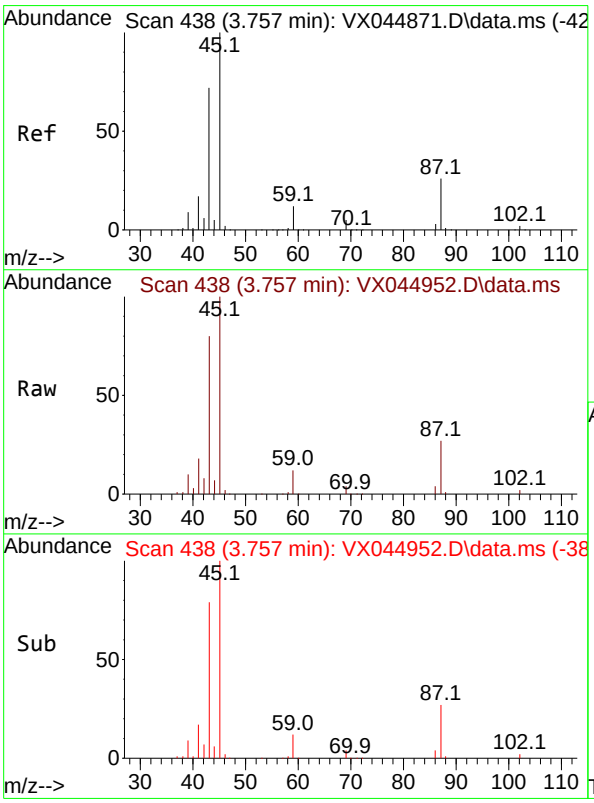
#21
trans-1,2-Dichloroethene
Concen: 18.590 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 96 Resp: 24497

Ion	Ratio	Lower	Upper
96	100		
61	132.3	106.0	159.0
98	62.5	50.6	76.0

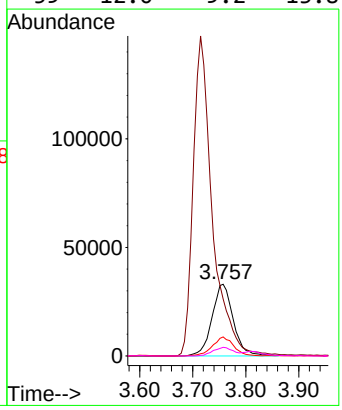


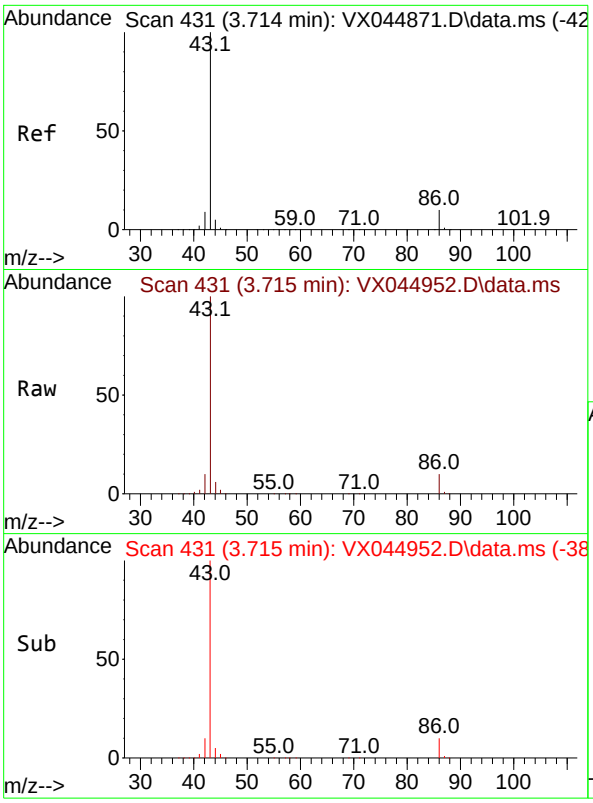


#22
Diisopropyl ether
Concen: 20.082 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 45 Resp: 91929

Ion	Ratio	Lower	Upper
45	100		
43	78.9	58.0	87.0
87	26.6	20.7	31.1
59	12.0	9.2	13.8



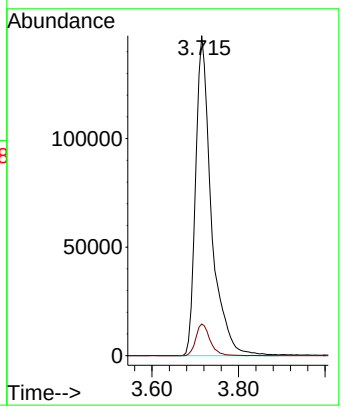


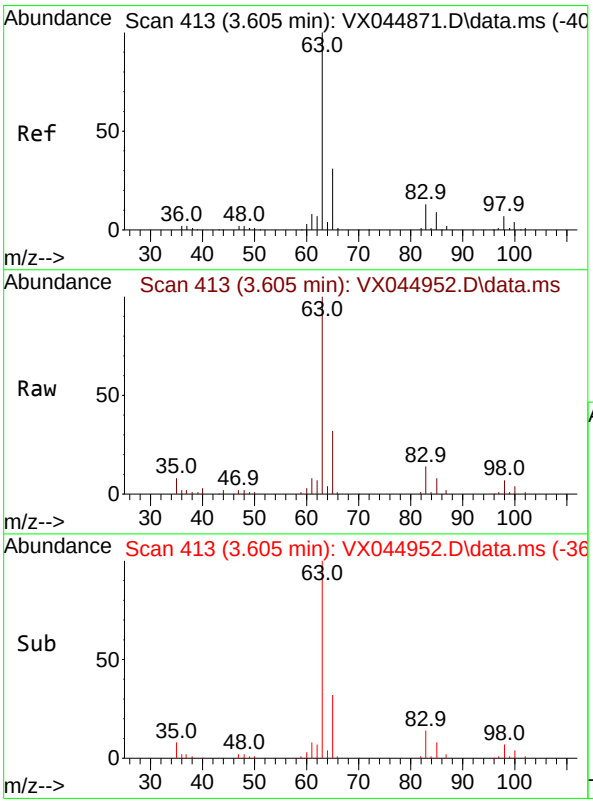
#23
Vinyl Acetate
Concen: 99.722 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 43 Resp: 372164

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.3	12.5

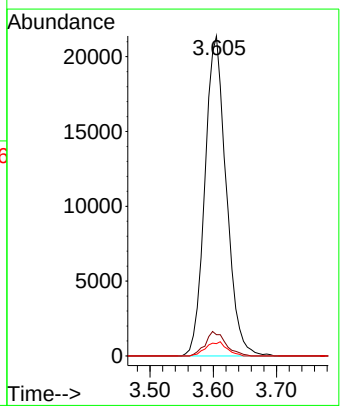


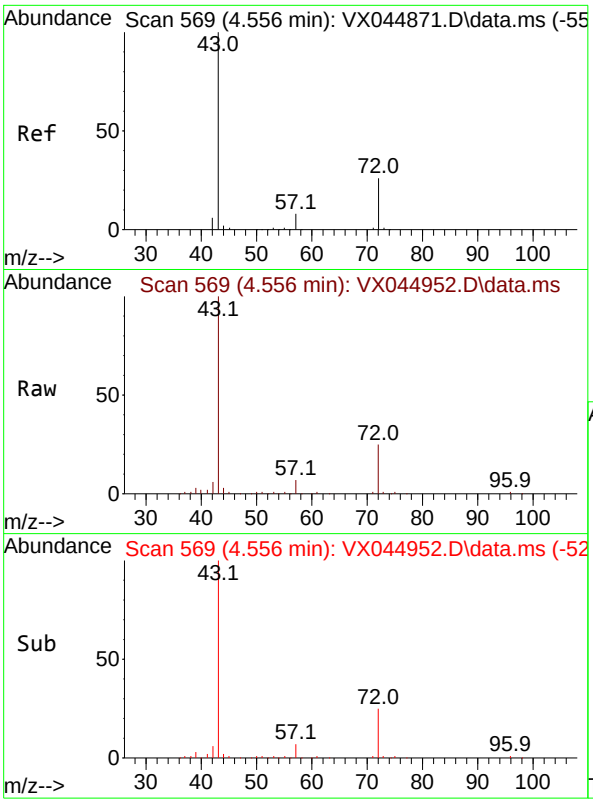


#24
1,1-Dichloroethane
Concen: 19.550 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 63 Resp: 50075

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.3	9.9
100	3.8	2.1	6.5



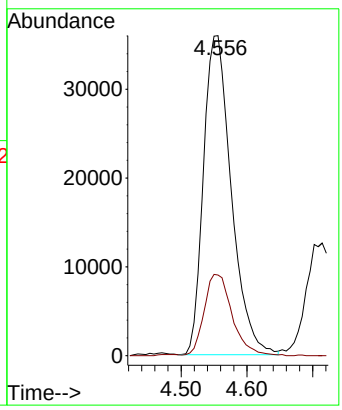


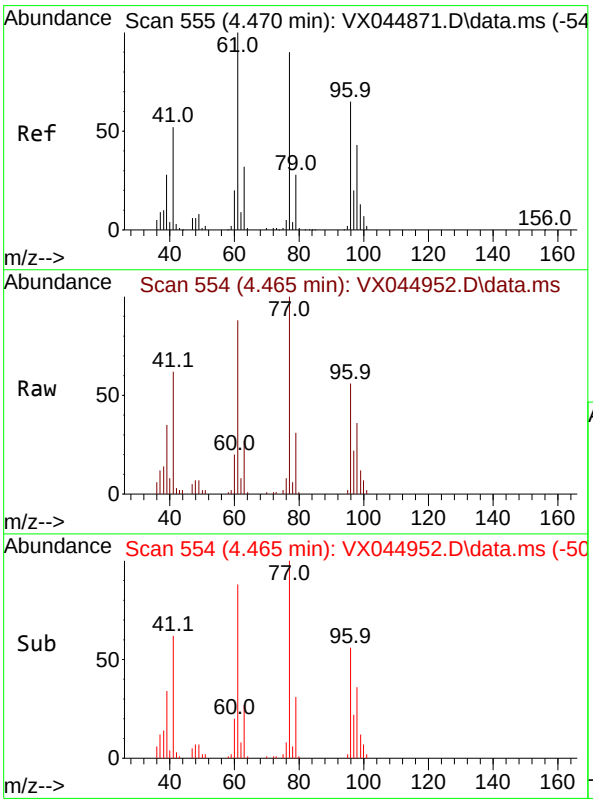
#25
2-Butanone
Concen: 106.736 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 43 Resp: 105945

Ion	Ratio	Lower	Upper
43	100		
72	25.0	21.2	31.8

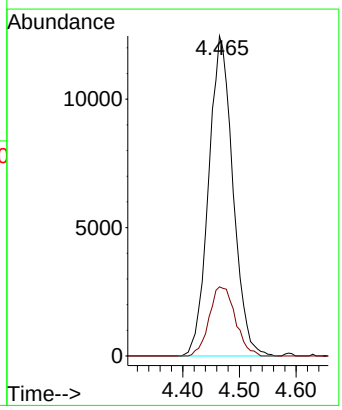


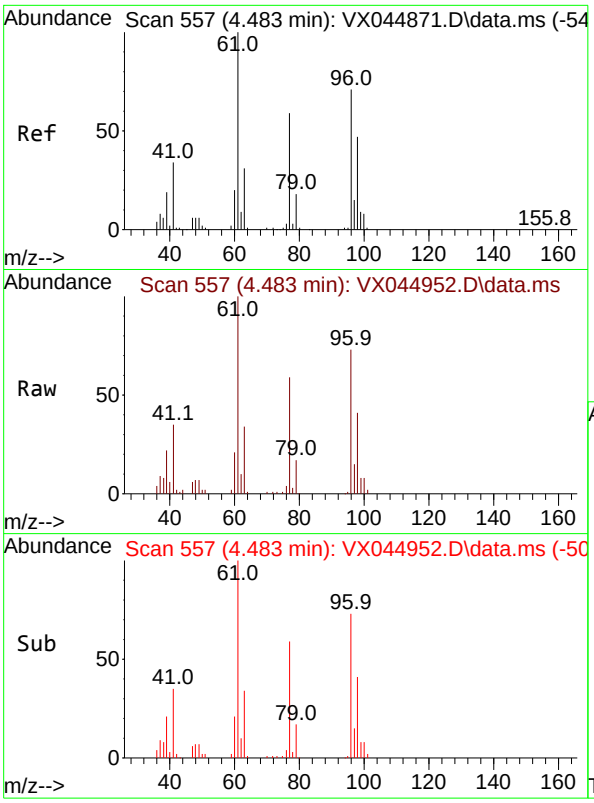


#26
2,2-Dichloropropane
Concen: 18.267 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 77 Resp: 37106

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.8	35.3



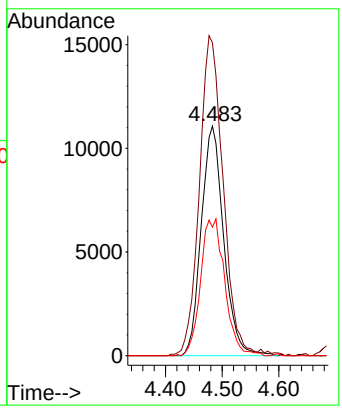


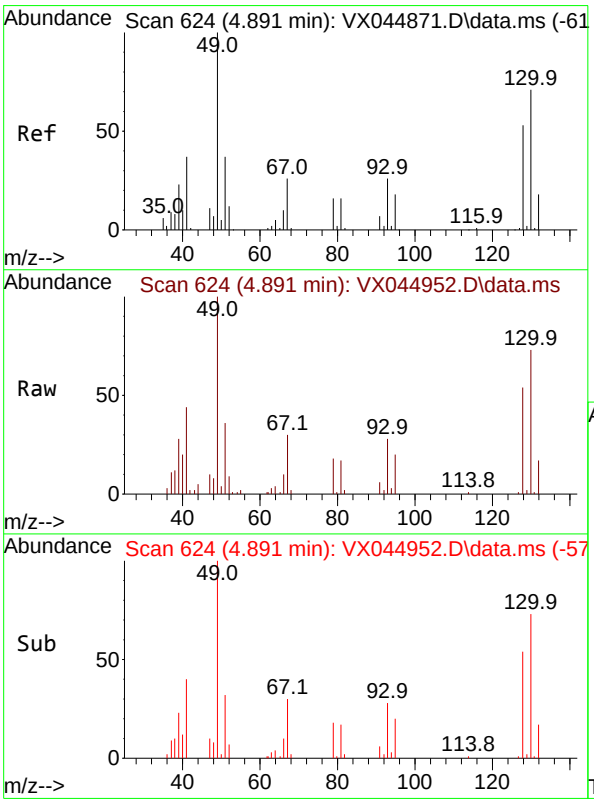
#27
cis-1,2-Dichloroethene
Concen: 19.237 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 96 Resp: 30448

Ion	Ratio	Lower	Upper
96	100		
61	146.8	0.0	294.0
98	64.0	0.0	131.2

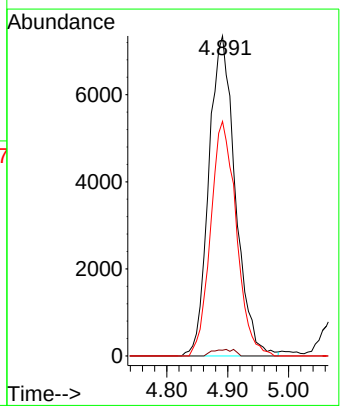


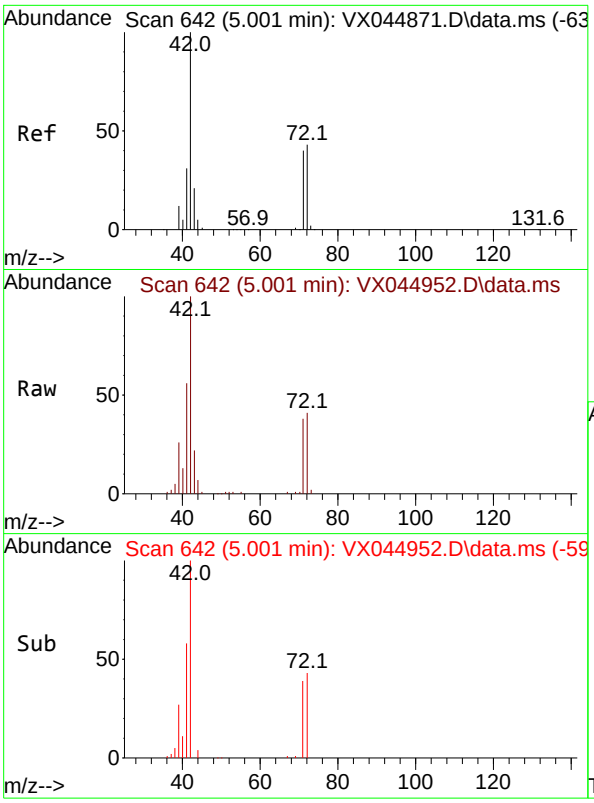


#28
Bromochloromethane
Concen: 18.027 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 49 Resp: 22191

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.6
130	71.1	56.7	85.1



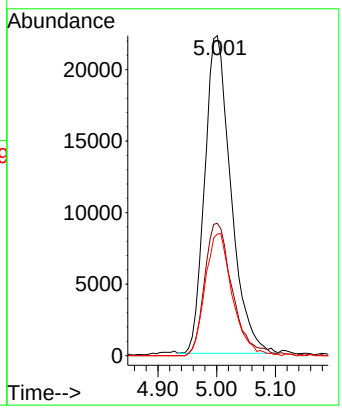


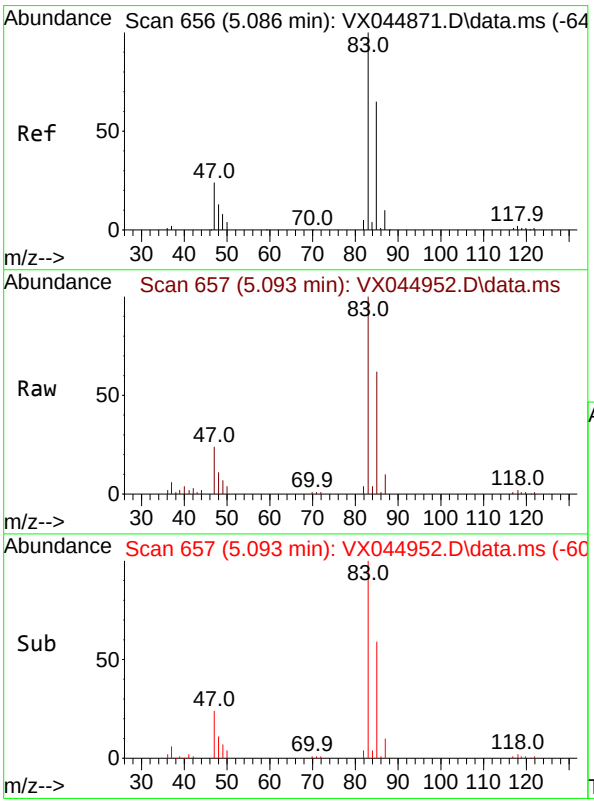
#29
Tetrahydrofuran
Concen: 104.445 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 42 Resp: 68840

Ion	Ratio	Lower	Upper
42	100		
72	44.4	35.0	52.4
71	40.0	32.6	48.8

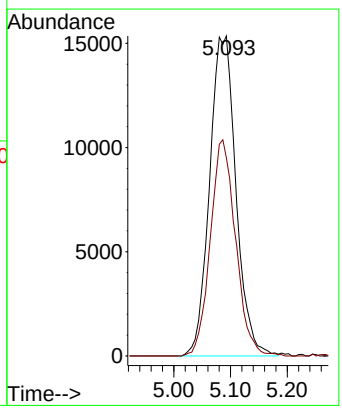


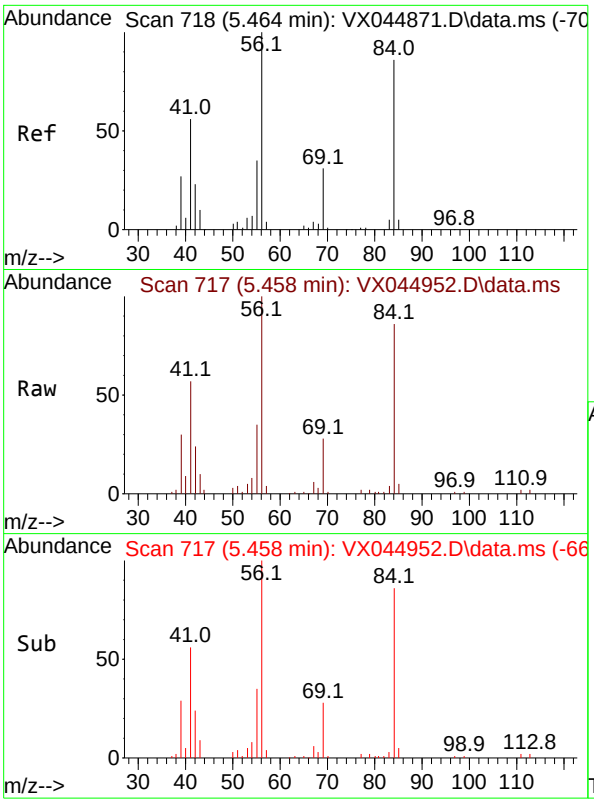


#30
Chloroform
Concen: 19.984 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 83 Resp: 49641

Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.1	78.1



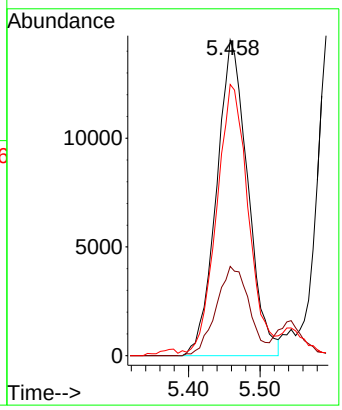


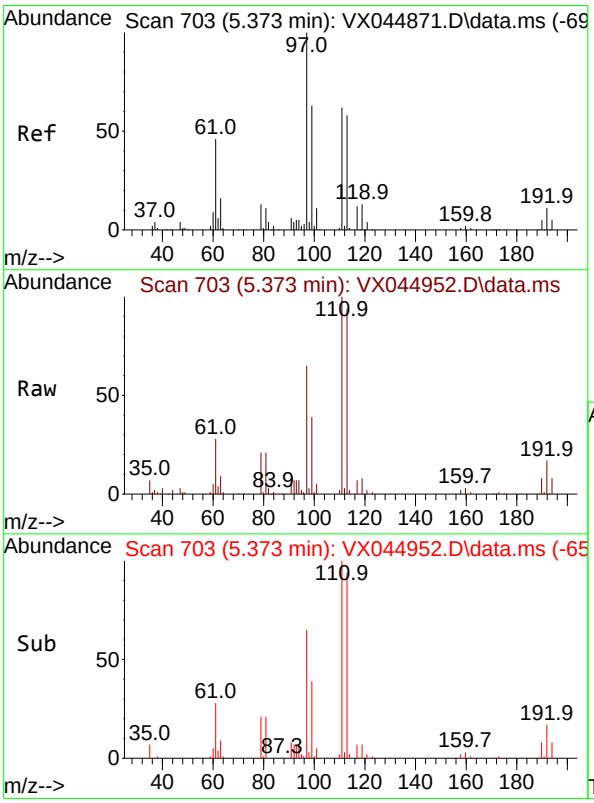
#31
Cyclohexane
Concen: 18.660 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 56 Resp: 44062

Ion	Ratio	Lower	Upper
56	100		
69	28.3	24.4	36.6
84	85.1	69.0	103.6

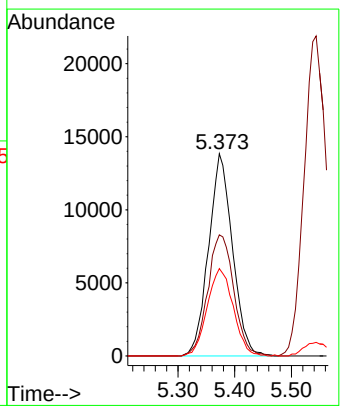


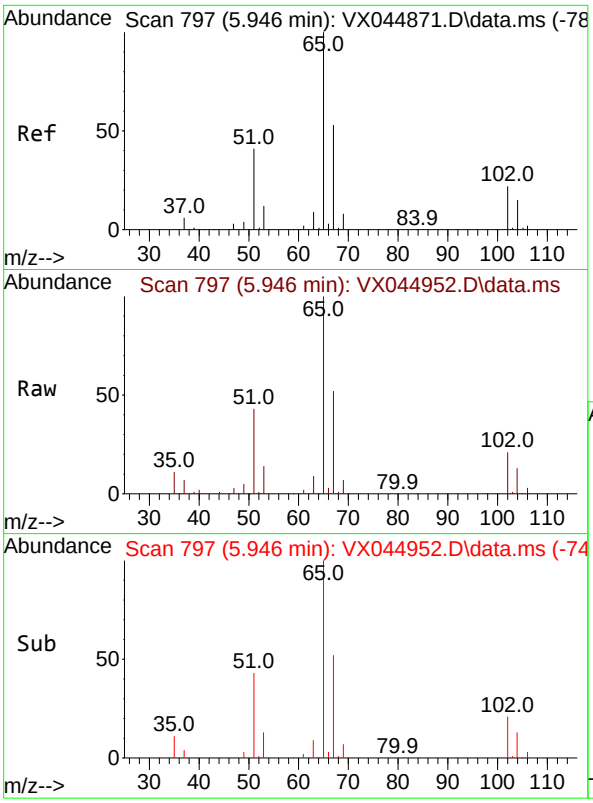


#32
1,1,1-Trichloroethane
Concen: 19.219 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 97 Resp: 40495

Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.0	76.6
61	46.9	36.6	55.0



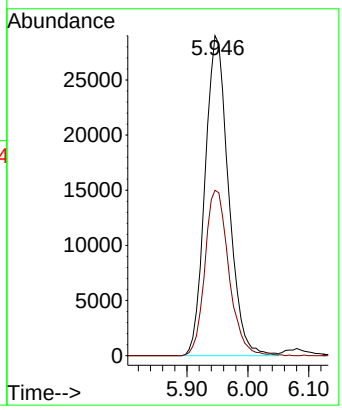


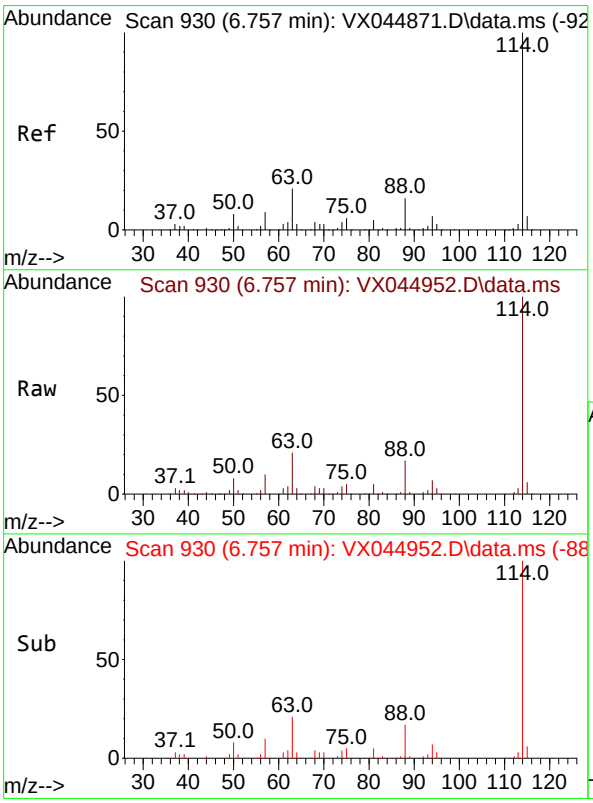
#33
1,2-Dichloroethane-d4
Concen: 51.105 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 65 Resp: 77707

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	108.2

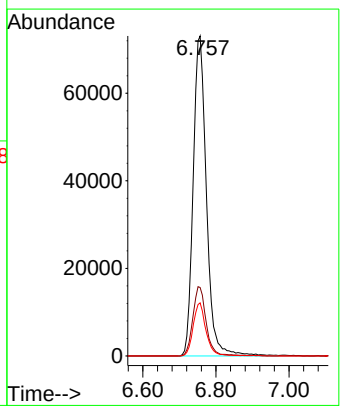


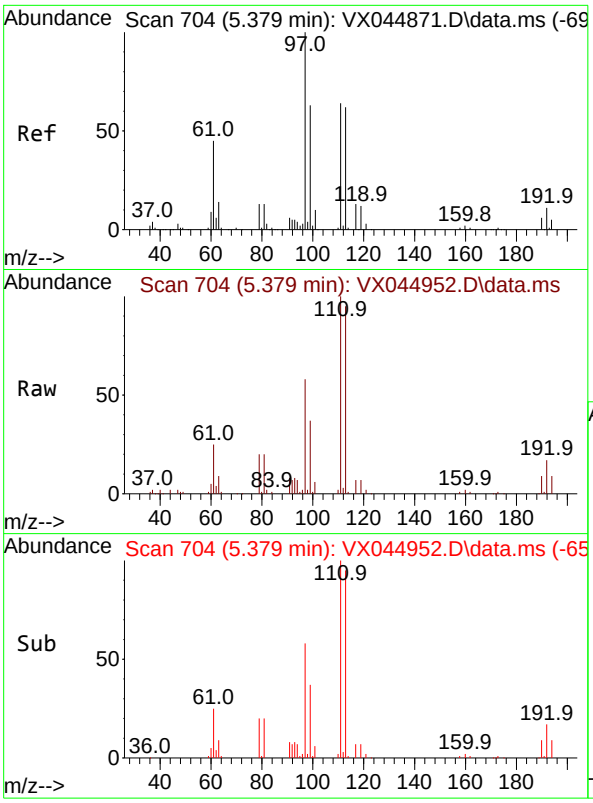


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:114 Resp: 184991

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.4
88	16.6	0.0	31.4



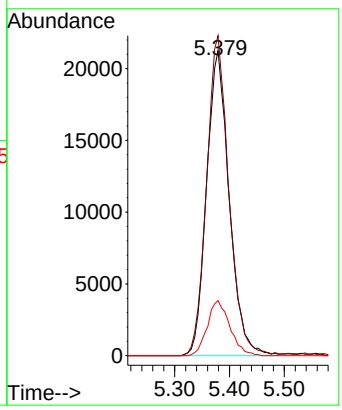


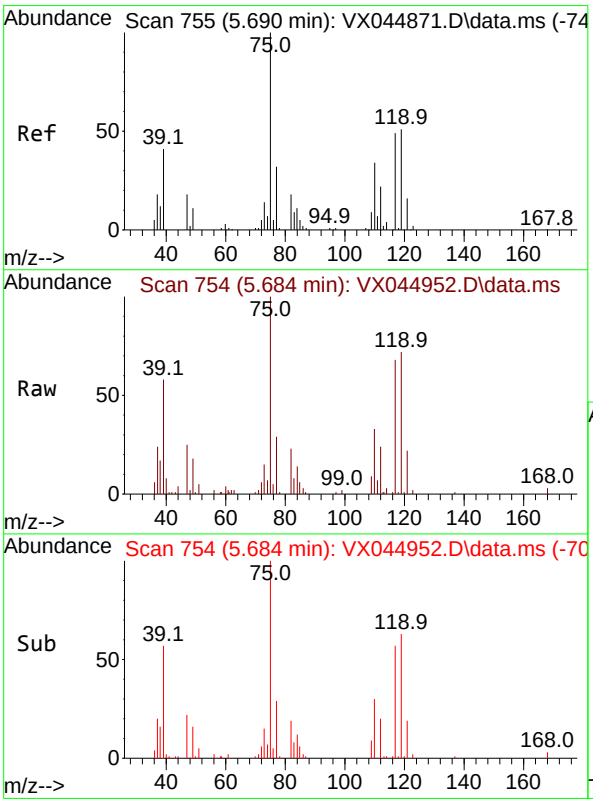
#35
Dibromofluoromethane
Concen: 50.582 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:113 Resp: 60838

Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.5	125.3
192	18.1	14.4	21.6

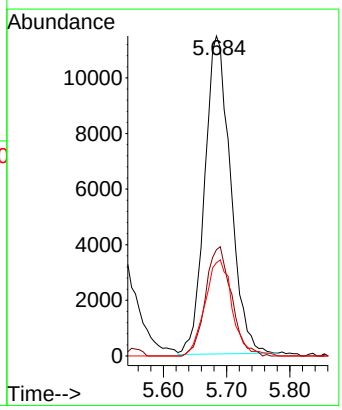


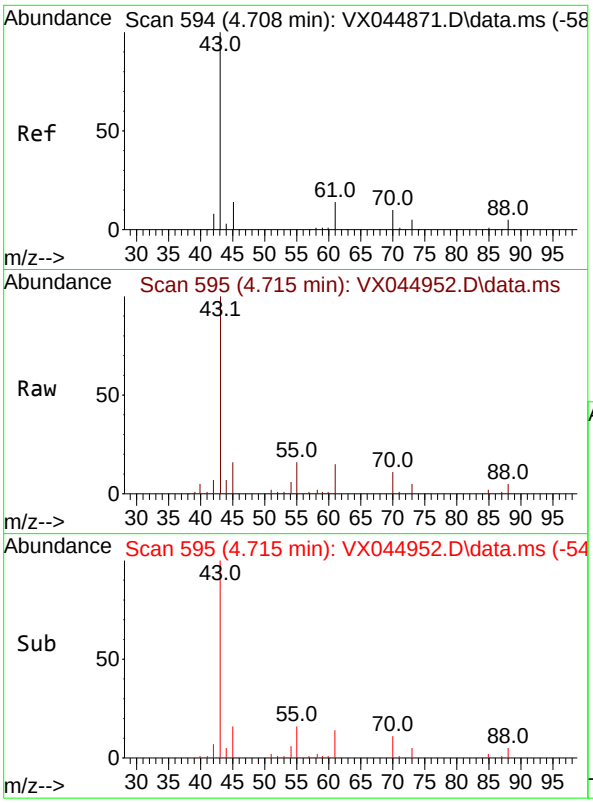


#36
1,1-Dichloropropene
Concen: 18.658 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 32376

Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.2	51.6
77	31.9	24.6	37.0



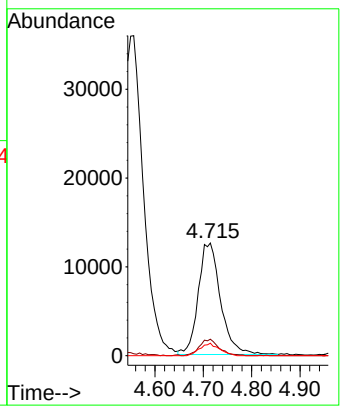


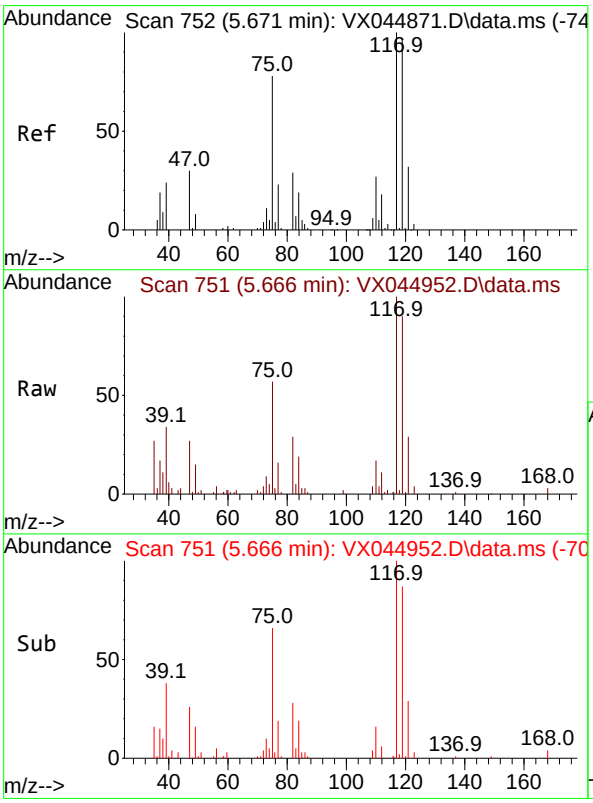
#37
Ethyl Acetate
Concen: 20.830 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 43 Resp: 40204

Ion	Ratio	Lower	Upper
43	100		
61	13.1	11.0	16.4
70	9.7	8.2	12.2

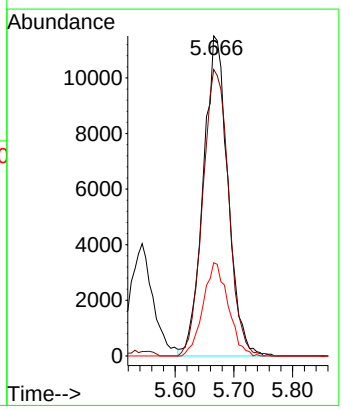


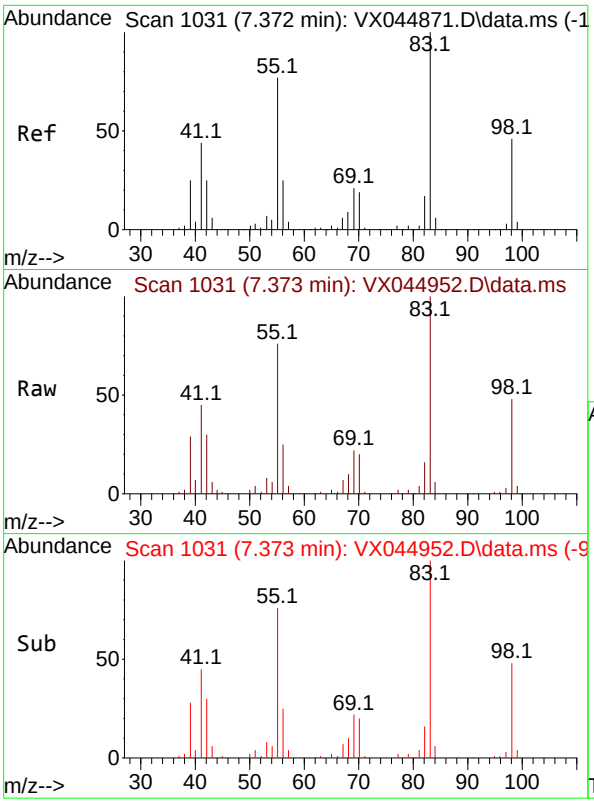


#38
Carbon Tetrachloride
Concen: 19.700 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:117 Resp: 33498

Ion	Ratio	Lower	Upper
117	100		
119	89.5	77.5	116.3
121	29.2	25.6	38.4



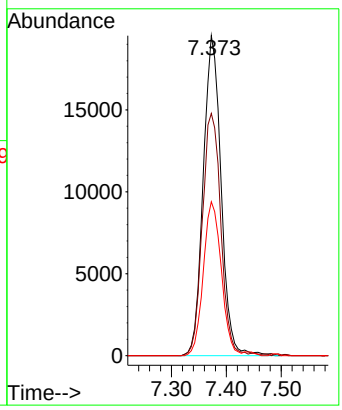


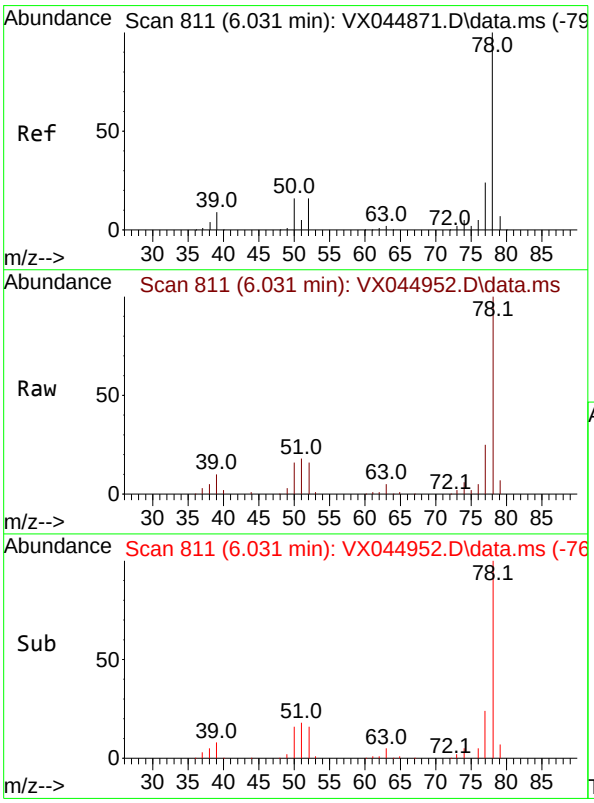
#39
Methylcyclohexane
Concen: 19.671 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 83 Resp: 44129

Ion	Ratio	Lower	Upper
83	100		
55	75.7	61.3	91.9
98	48.1	37.0	55.6

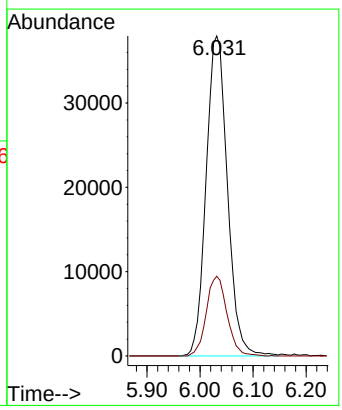


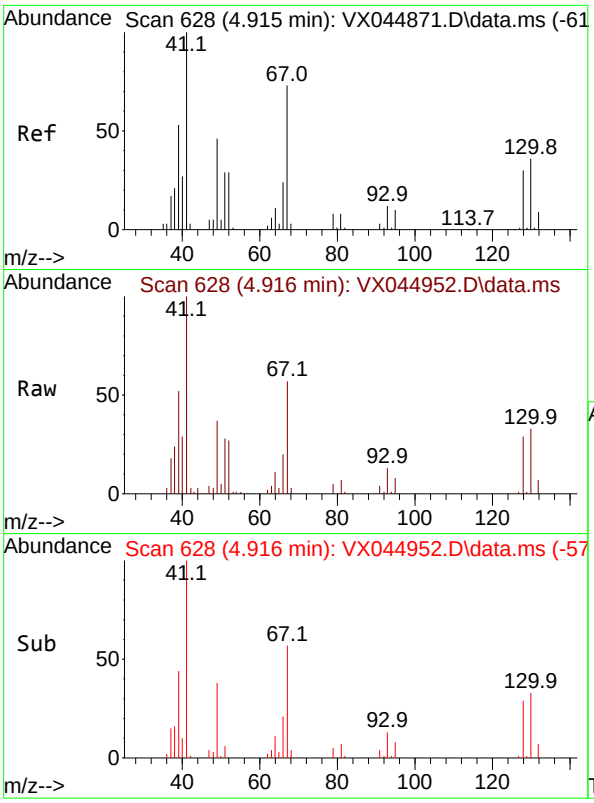


#40
Benzene
Concen: 19.567 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 78 Resp: 106024

Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.0	28.6



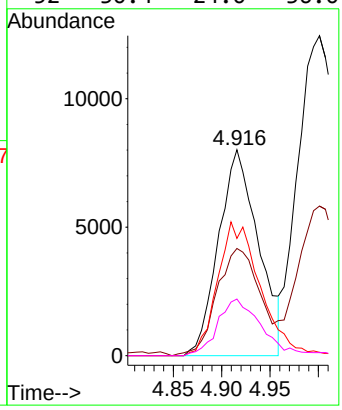


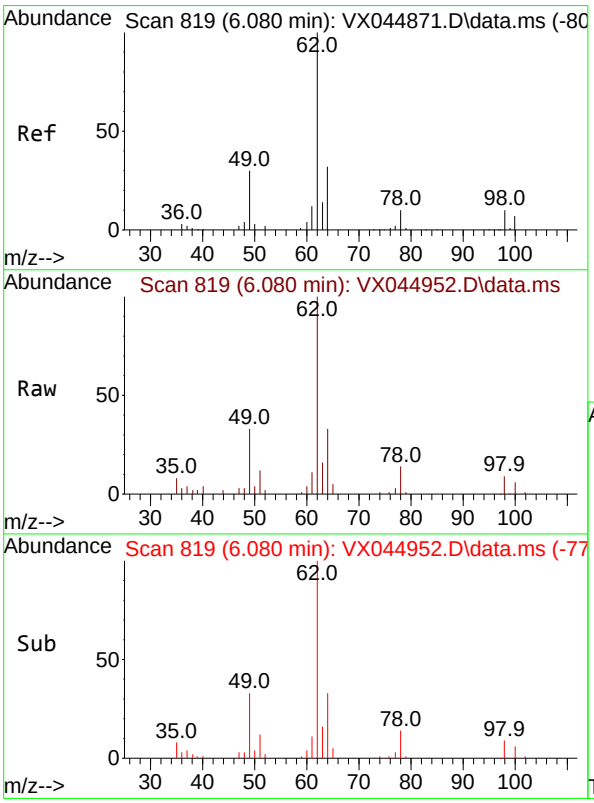
#41
Methacrylonitrile
Concen: 22.298 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 41 Resp: 23036

Ion	Ratio	Lower	Upper
41	100		
39	55.0	43.1	64.7
67	69.6	57.0	85.6
52	30.4	24.0	36.0

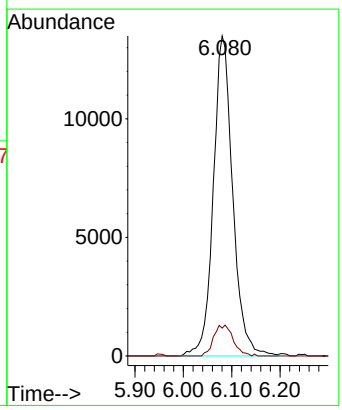


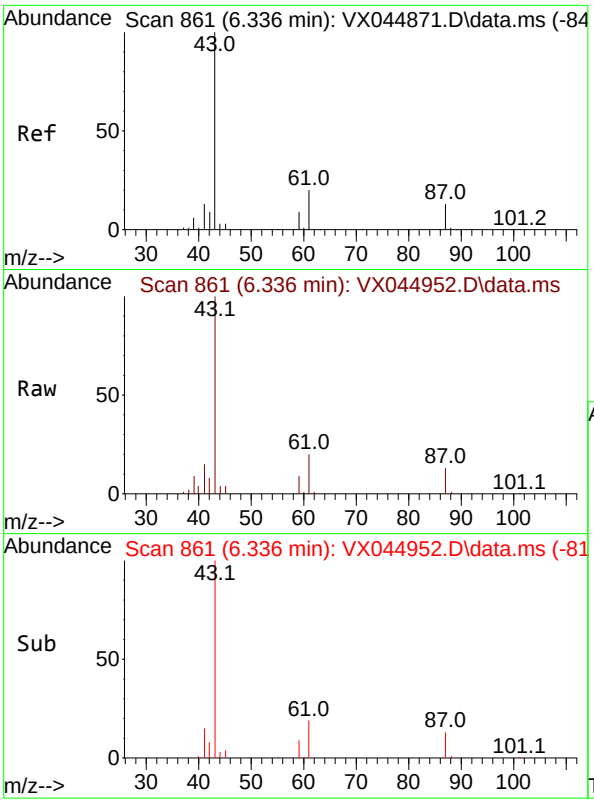


#42
1,2-Dichloroethane
Concen: 21.803 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 62 Resp: 37652

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4



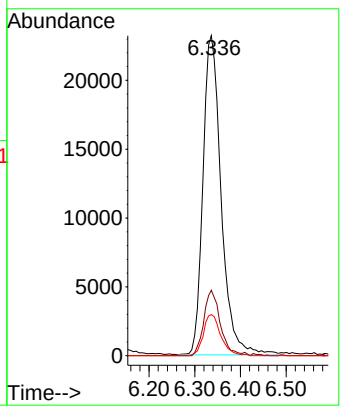


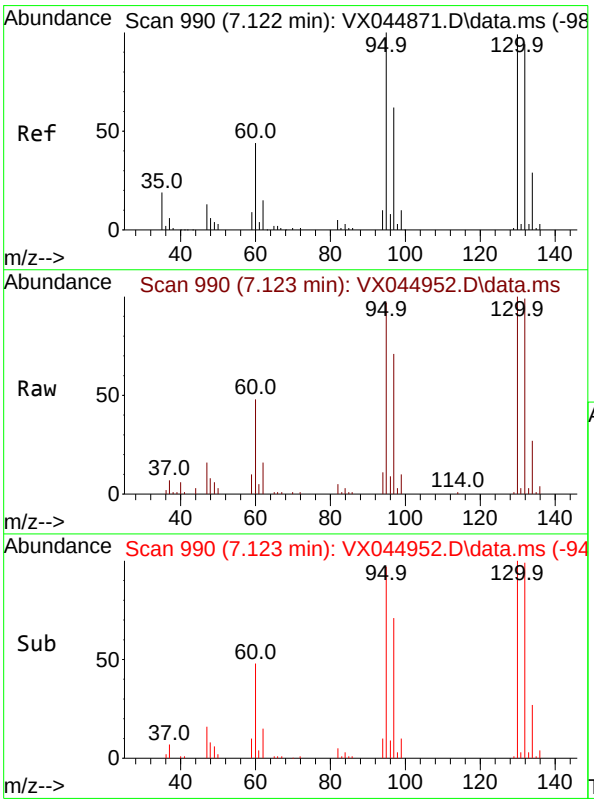
#43
Isopropyl Acetate
Concen: 20.648 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 43 Resp: 64357

Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.8	23.8
87	12.3	10.0	15.0

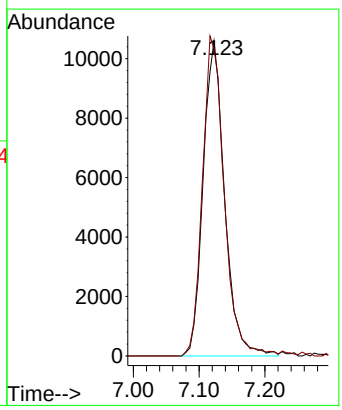


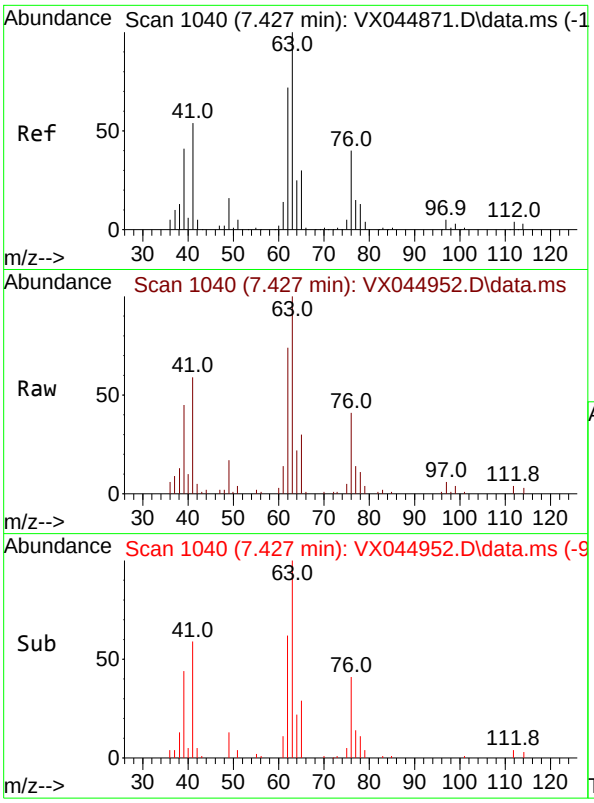


#44
Trichloroethene
Concen: 19.420 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:130 Resp: 24052

Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	202.4



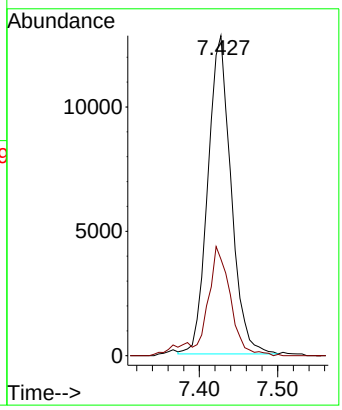


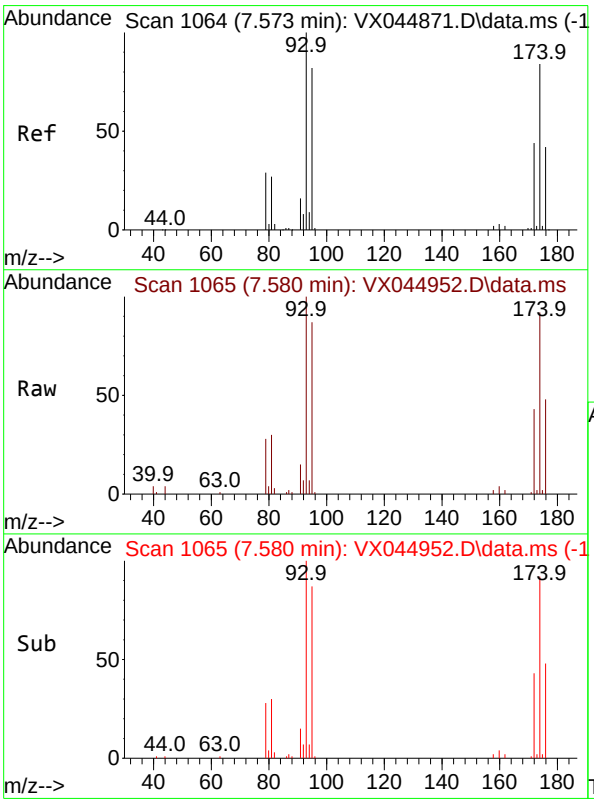
#45
1,2-Dichloropropane
Concen: 19.518 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 63 Resp: 26311

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.2	36.4

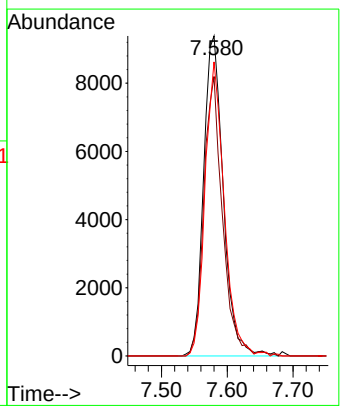


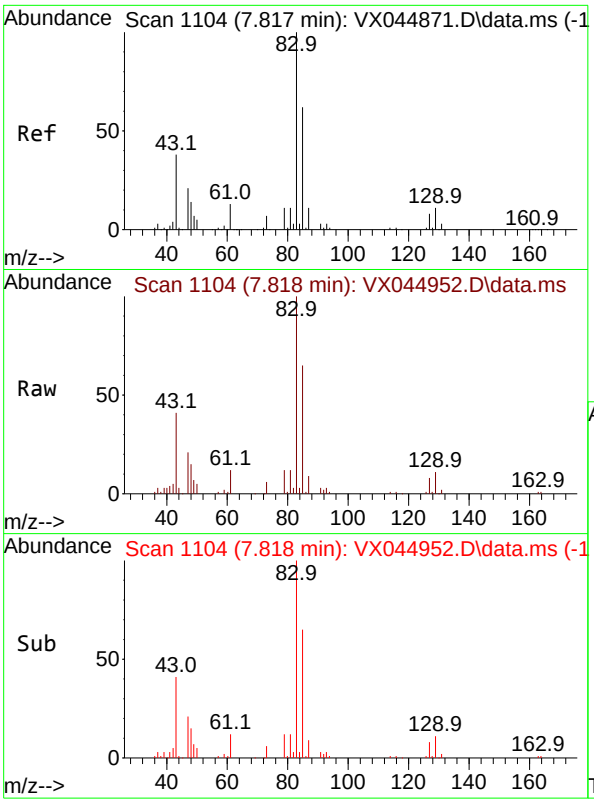


#46
Dibromomethane
Concen: 20.875 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 93 Resp: 19515

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.2	99.4
174	90.0	69.9	104.9



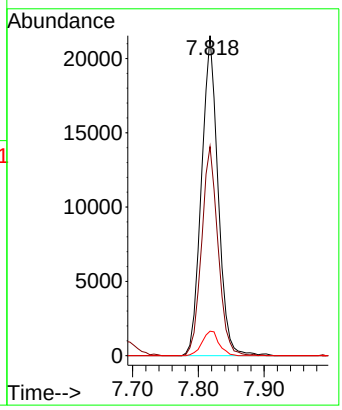


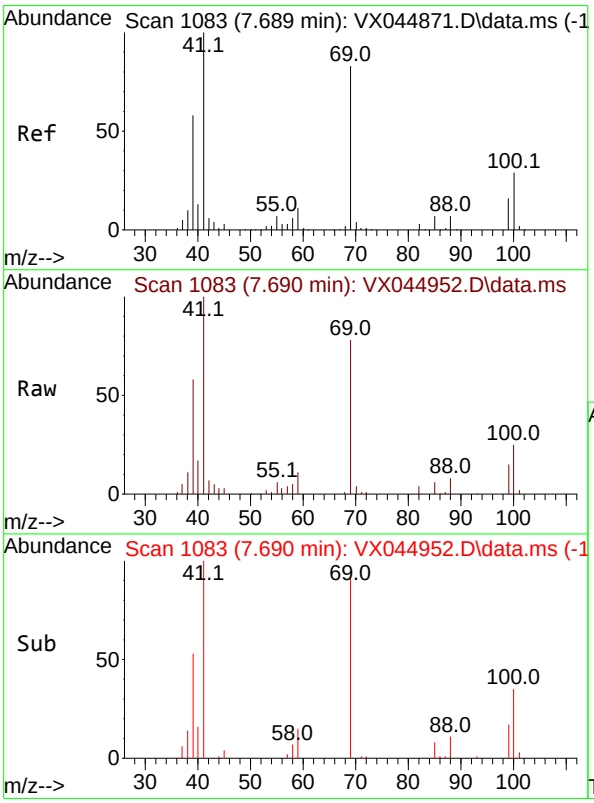
#47
Bromodichloromethane
Concen: 20.853 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 83 Resp: 37748

Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.0	75.0
127	7.7	6.4	9.6

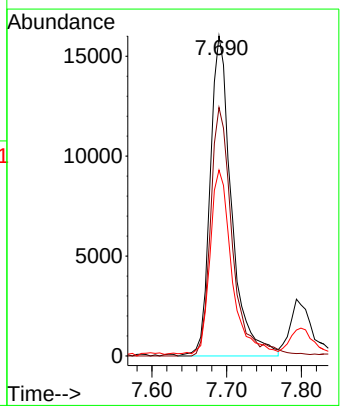


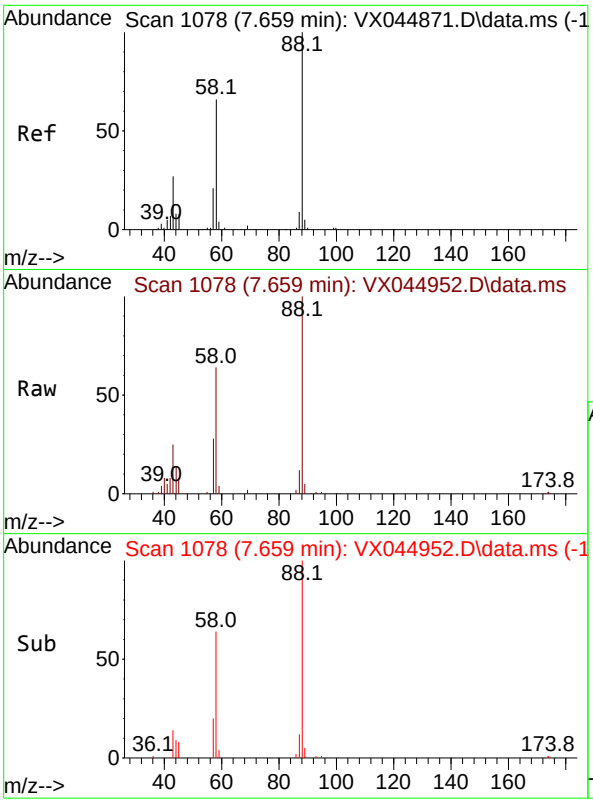


#48
Methyl methacrylate
Concen: 21.671 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 41 Resp: 31848

Ion	Ratio	Lower	Upper
41	100		
69	79.7	65.8	98.8
39	60.1	46.4	69.6



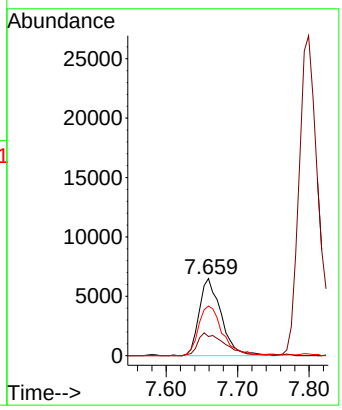


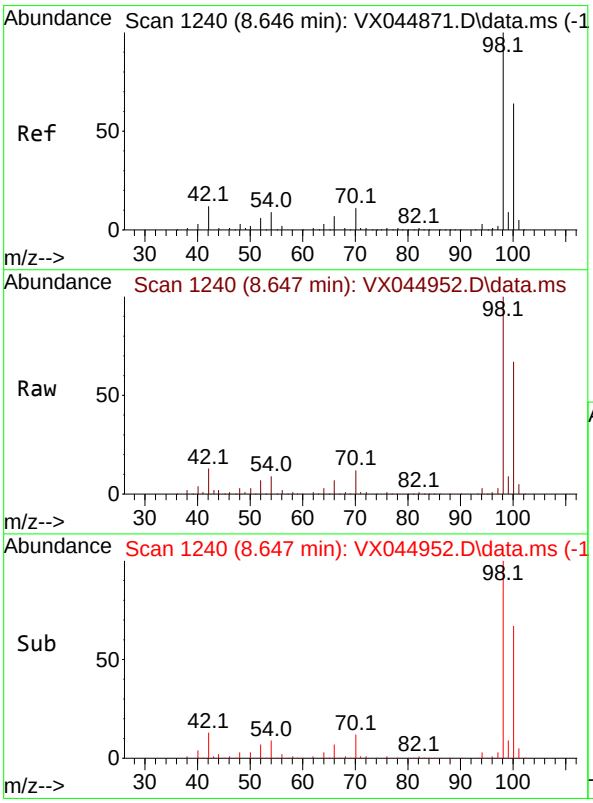
#49
1,4-Dioxane
Concen: 443.448 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 88 Resp: 13982

Ion	Ratio	Lower	Upper
88	100		
43	35.9	26.6	39.8
58	69.9	55.9	83.9

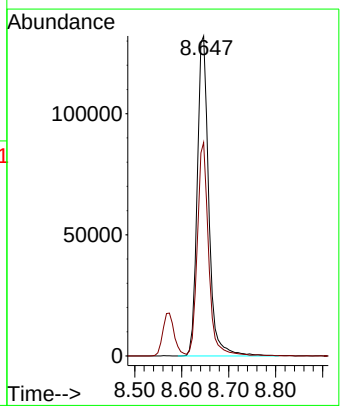


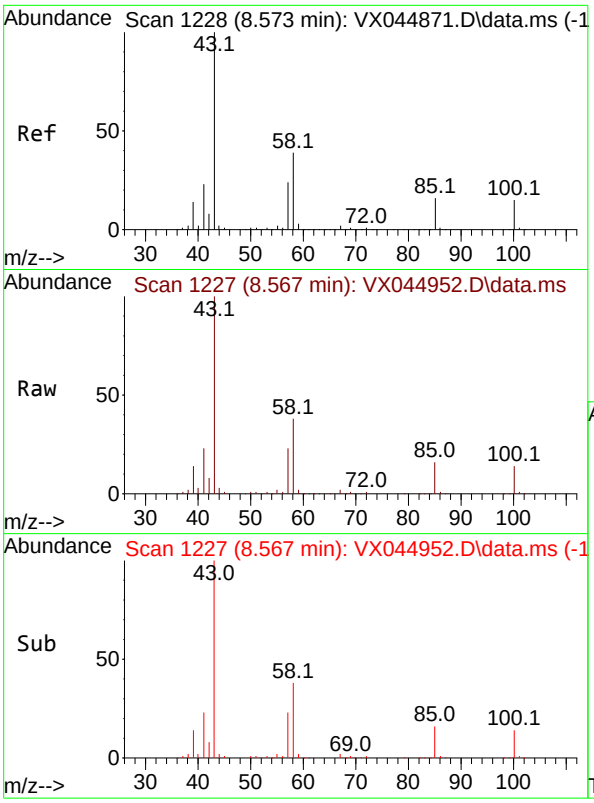


#50
Toluene-d8
Concen: 49.828 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 98 Resp: 226624

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.7	79.1



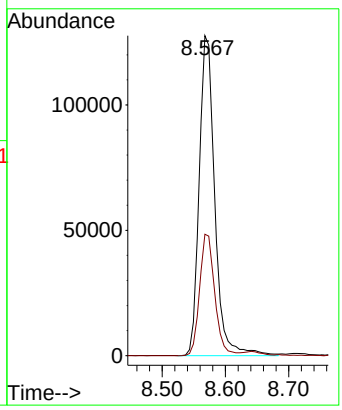


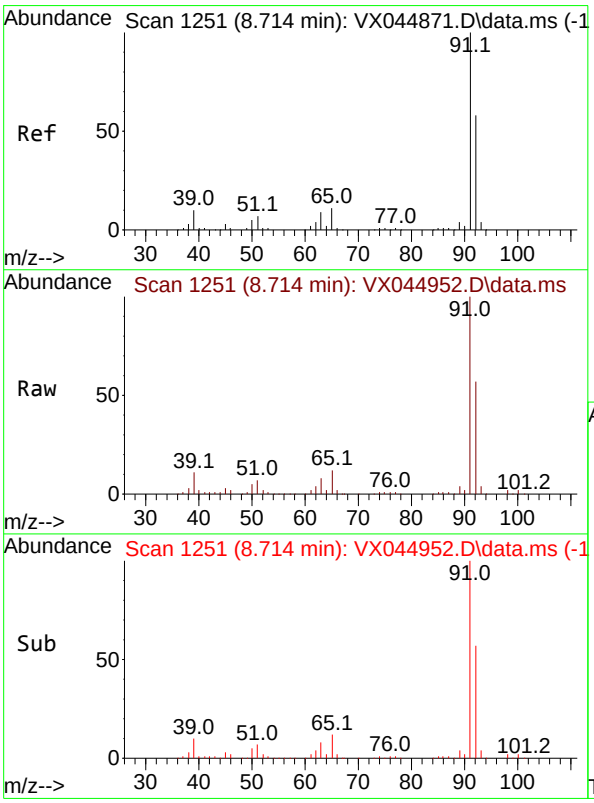
#51
4-Methyl-2-Pentanone
Concen: 115.888 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 43 Resp: 219588

Ion	Ratio	Lower	Upper
43	100		
58	36.9	30.8	46.2

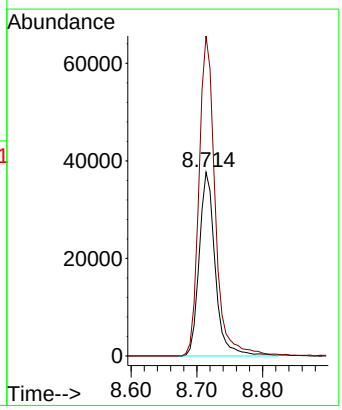


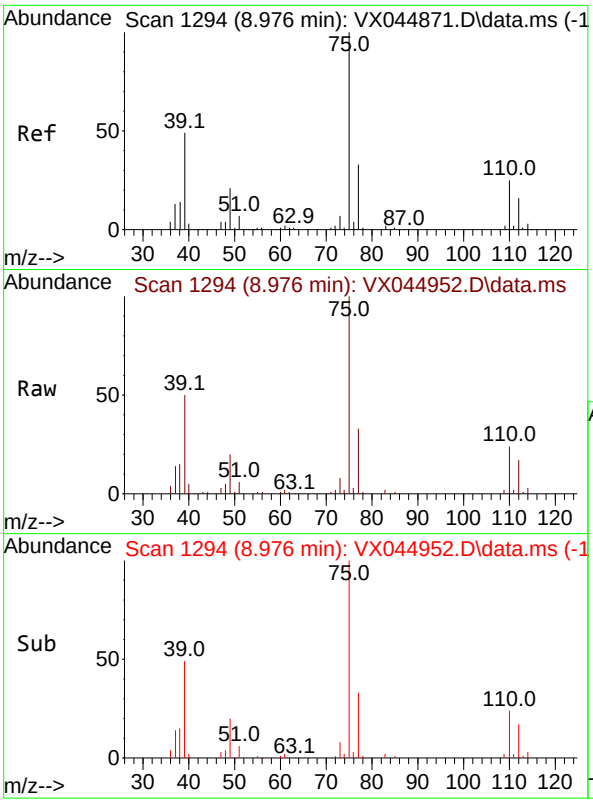


#52
Toluene
Concen: 19.780 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 92 Resp: 63830

Ion	Ratio	Lower	Upper
92	100		
91	176.5	137.4	206.2



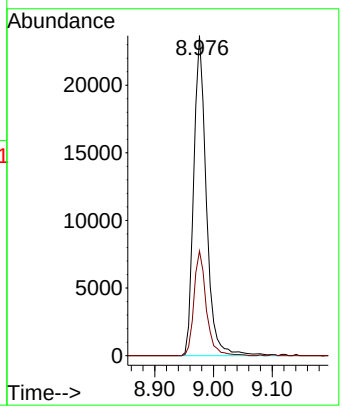


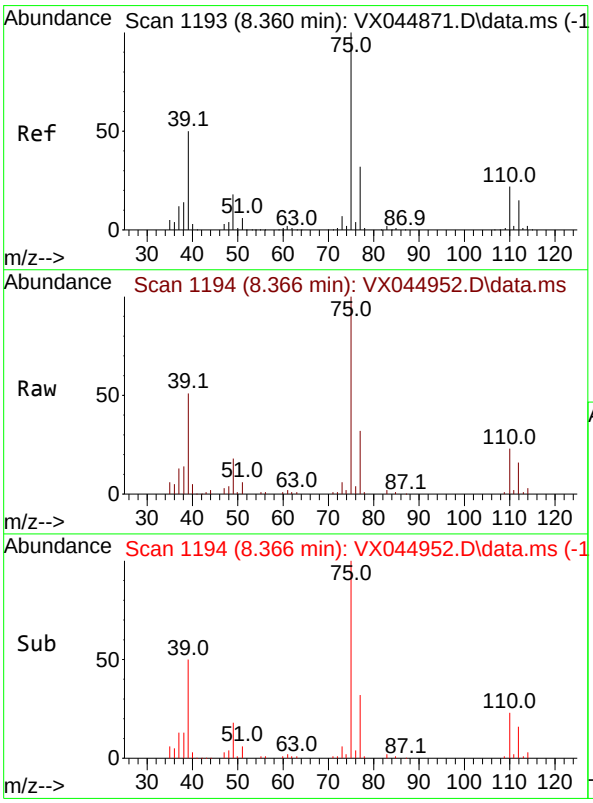
#53
t-1,3-Dichloropropene
Concen: 19.296 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 75 Resp: 35347

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.0	39.0

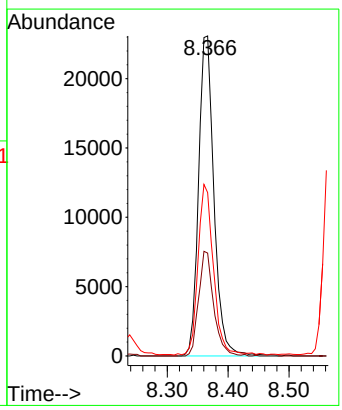


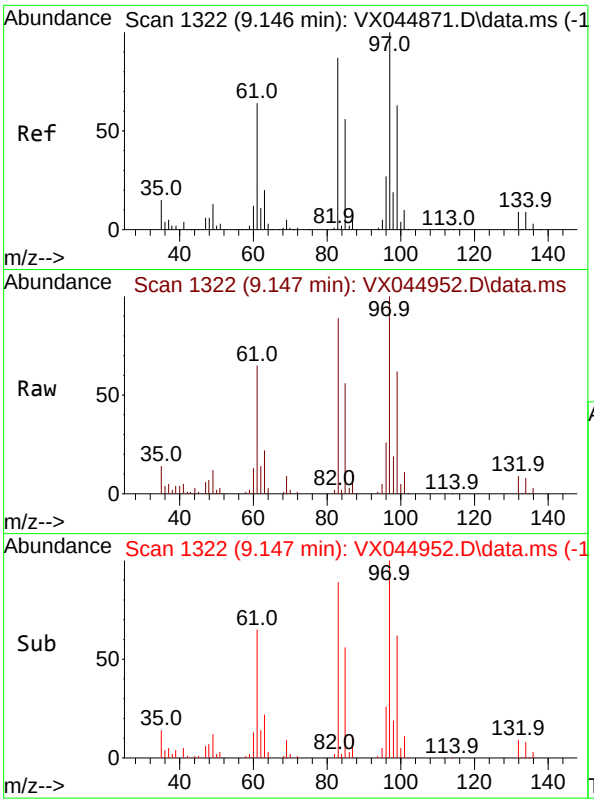


#54
cis-1,3-Dichloropropene
Concen: 19.889 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 40620

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.3	37.9
39	50.6	40.0	60.0



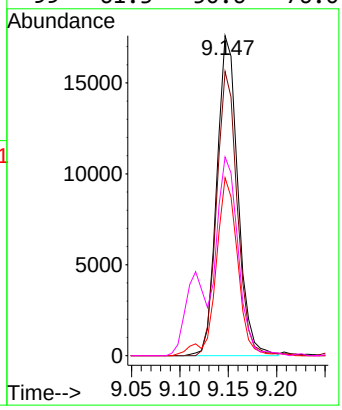


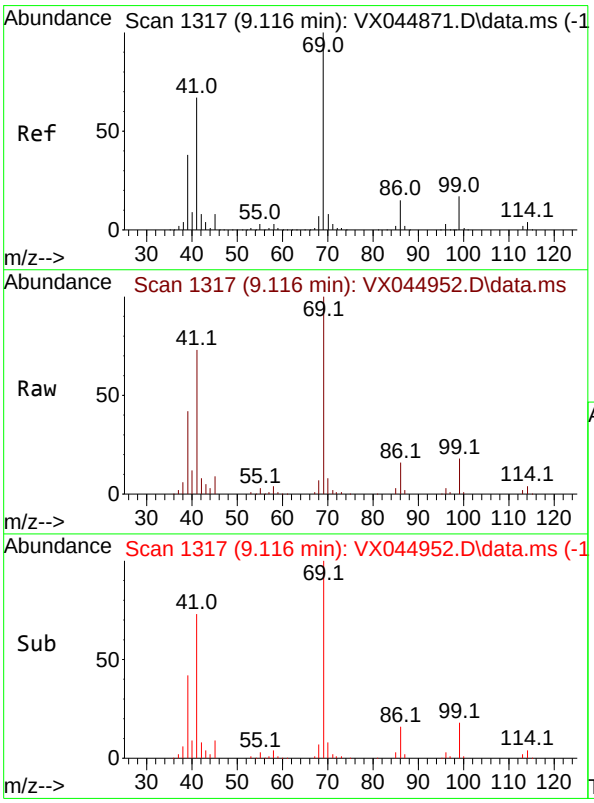
#55
1,1,2-Trichloroethane
Concen: 21.408 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 97 Resp: 26556

Ion	Ratio	Lower	Upper
97	100		
83	88.8	69.8	104.6
85	55.0	44.8	67.2
99	61.3	50.6	76.0

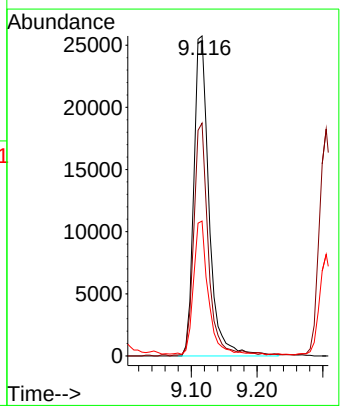


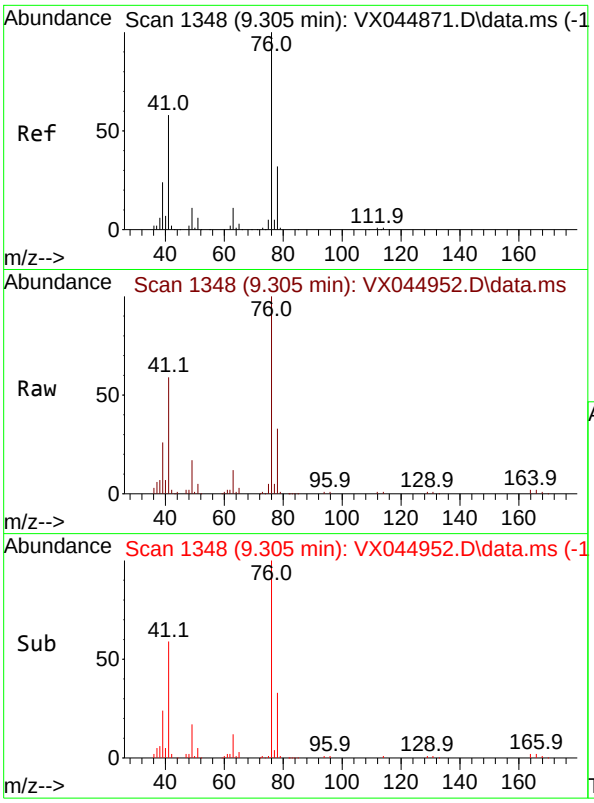


#56
Ethyl methacrylate
Concen: 20.600 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 69 Resp: 41272

Ion	Ratio	Lower	Upper
69	100		
41	69.9	55.2	82.8
39	38.8	30.8	46.2



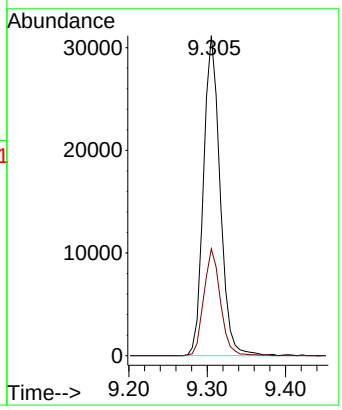


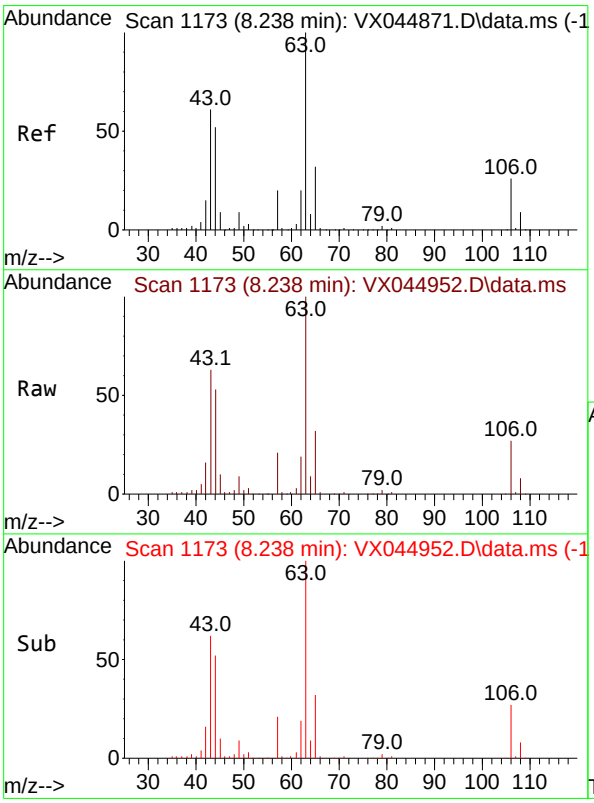
#57
1,3-Dichloropropane
Concen: 21.061 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 76 Resp: 45713

Ion	Ratio	Lower	Upper
76	100		
78	33.5	25.8	38.8

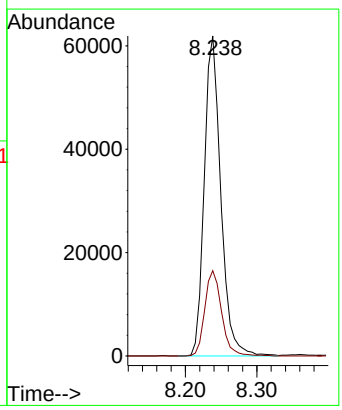


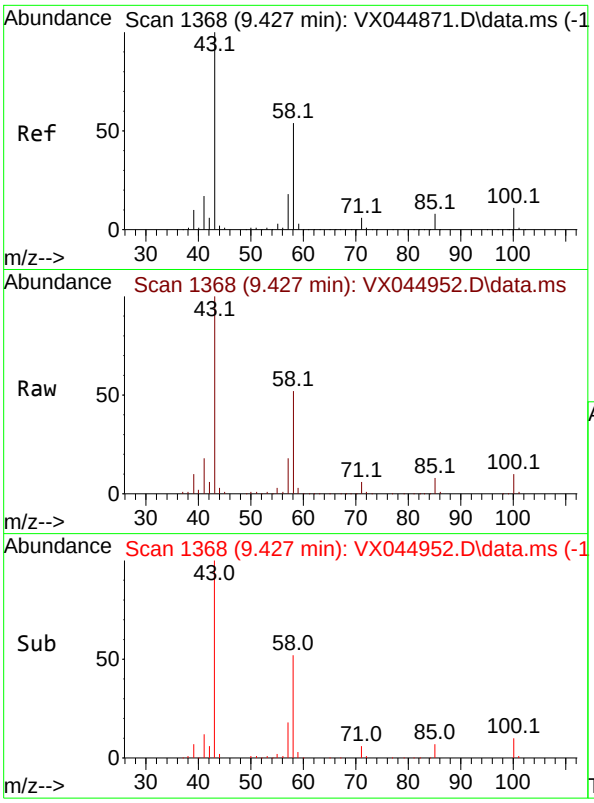


#58
2-Chloroethyl Vinyl ether
Concen: 101.176 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 63 Resp: 99532

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.3	31.9



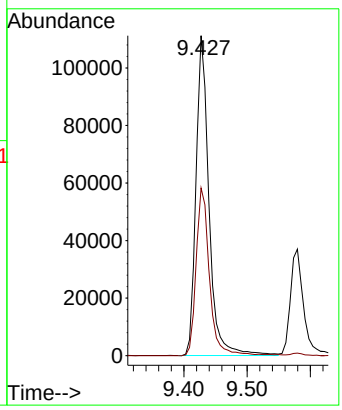


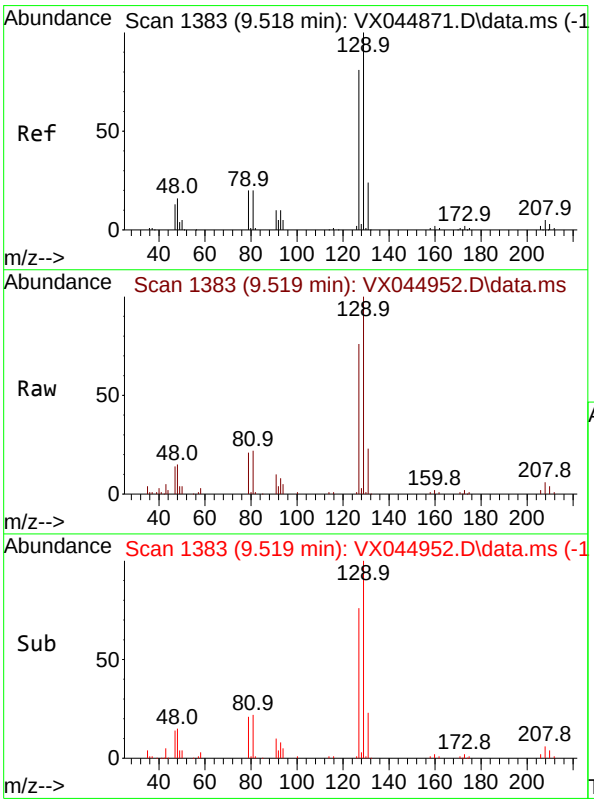
#59
2-Hexanone
Concen: 116.671 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 43 Resp: 159284

Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.5	82.4

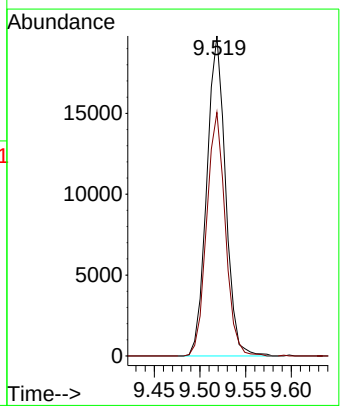


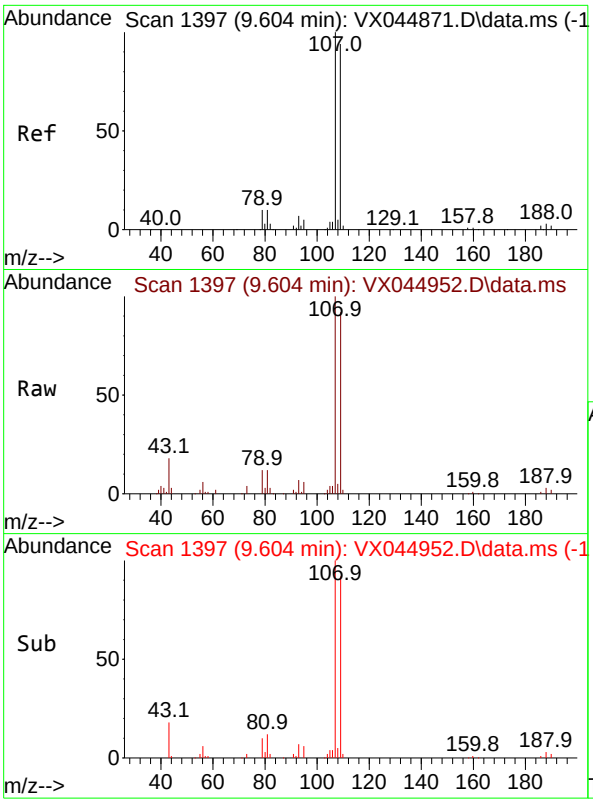


#60
Dibromochloromethane
Concen: 21.203 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:129 Resp: 28129

Ion	Ratio	Lower	Upper
129	100		
127	75.6	39.1	117.3



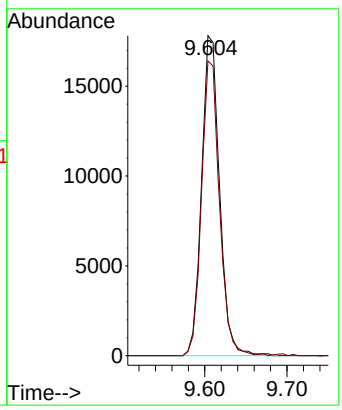


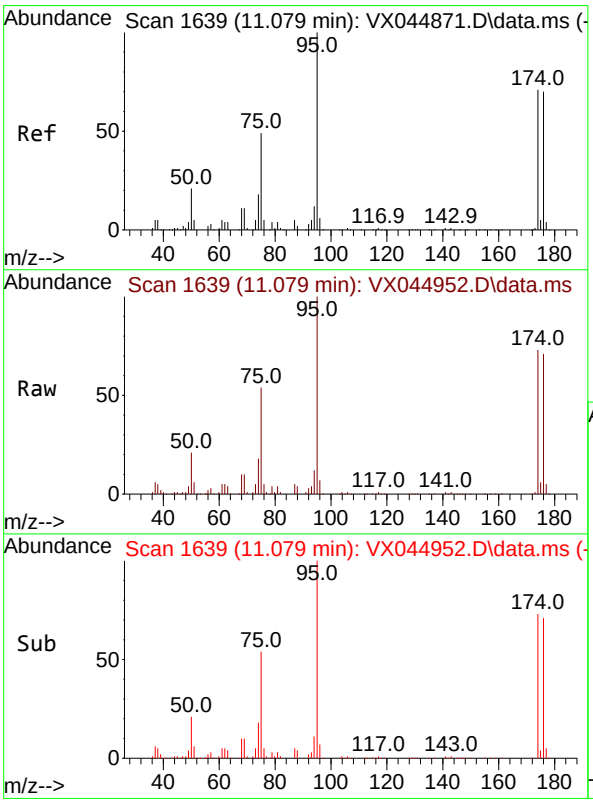
#61
1,2-Dibromoethane
Concen: 21.494 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:107 Resp: 27025

Ion	Ratio	Lower	Upper
107	100		
109	92.2	75.9	113.9

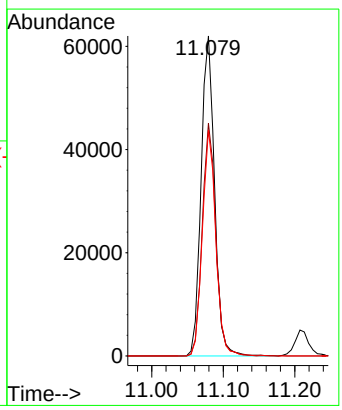


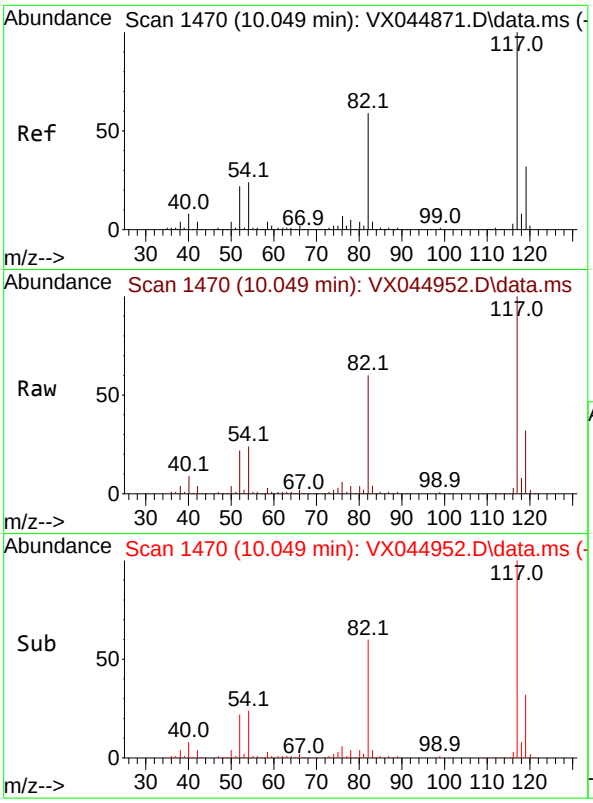


#62
4-Bromofluorobenzene
Concen: 52.833 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 95 Resp: 81007

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	142.6
176	70.3	0.0	141.6



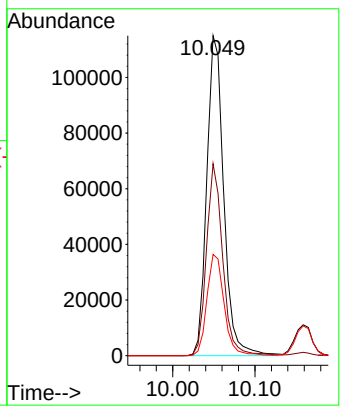


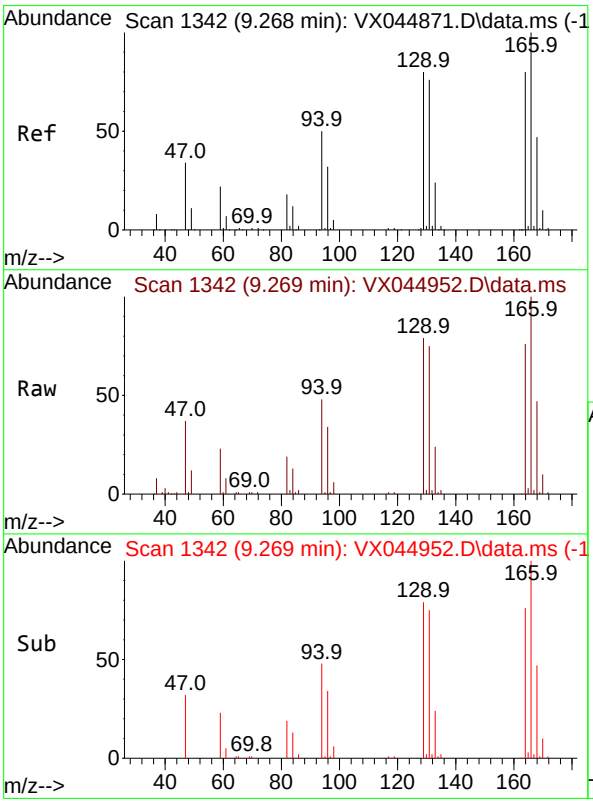
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:117 Resp: 164889

Ion	Ratio	Lower	Upper
117	100		
82	60.0	47.5	71.3
119	31.6	25.4	38.0

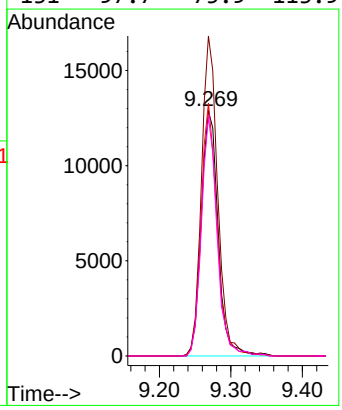


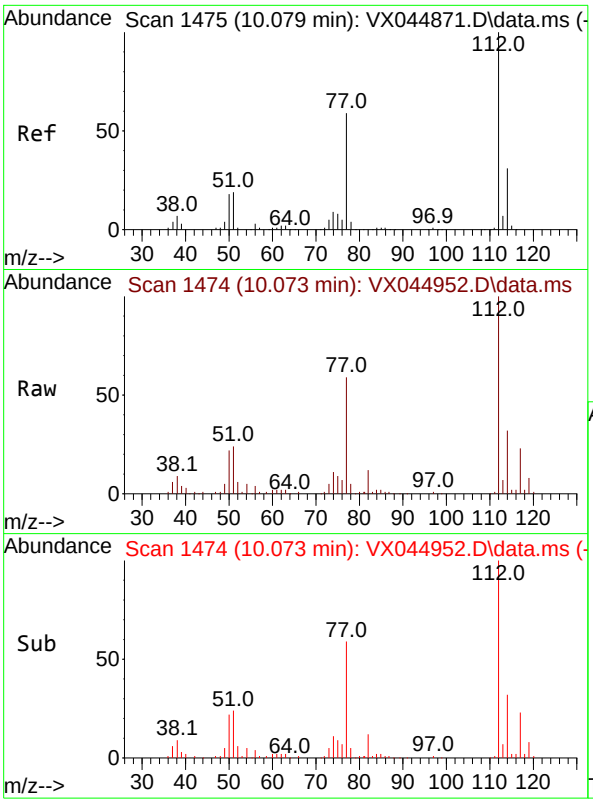


#64
Tetrachloroethene
Concen: 20.294 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:164 Resp: 21103

Ion	Ratio	Lower	Upper
164	100		
166	130.8	100.4	150.6
129	103.4	79.9	119.9
131	97.7	75.9	113.9



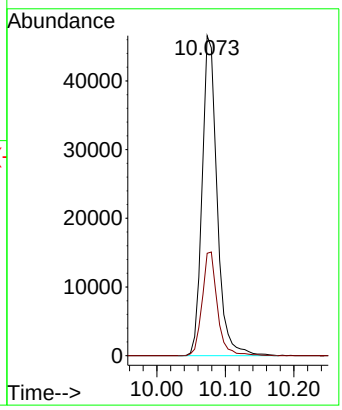


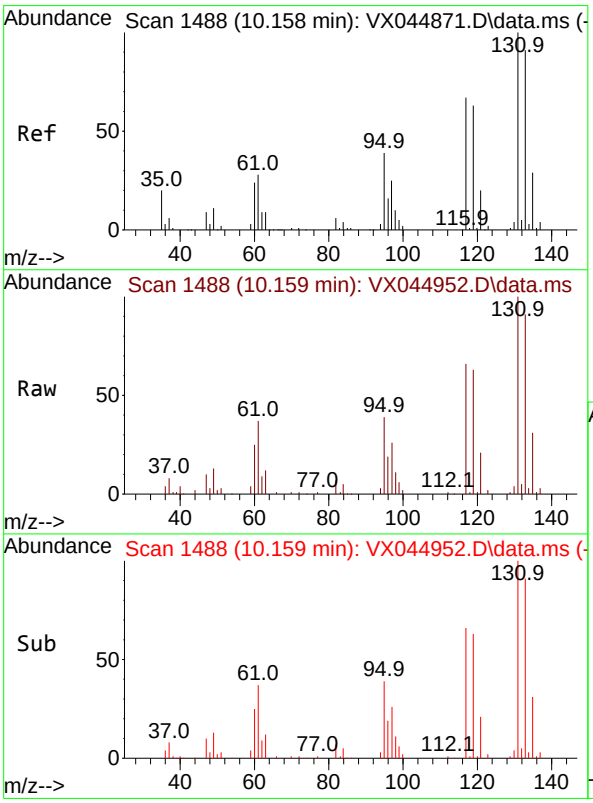
#65
Chlorobenzene
Concen: 20.006 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:112 Resp: 70853

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.0	37.6

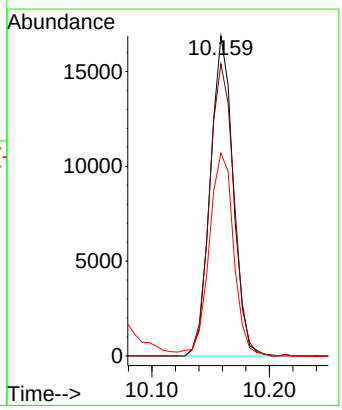


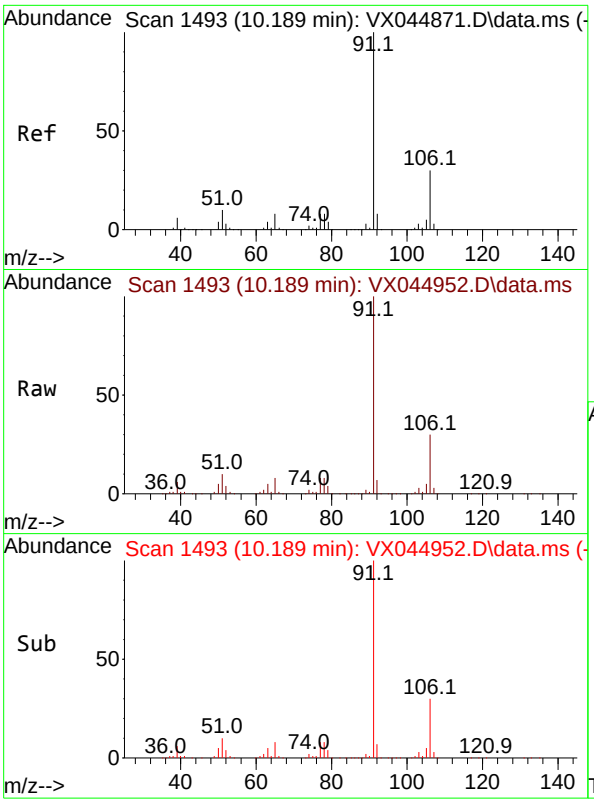


#66
1,1,1,2-Tetrachloroethane
Concen: 19.951 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:131 Resp: 22743

Ion	Ratio	Lower	Upper
131	100		
133	97.0	47.1	141.3
119	67.9	33.6	100.6



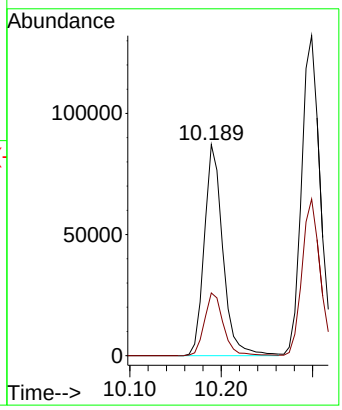


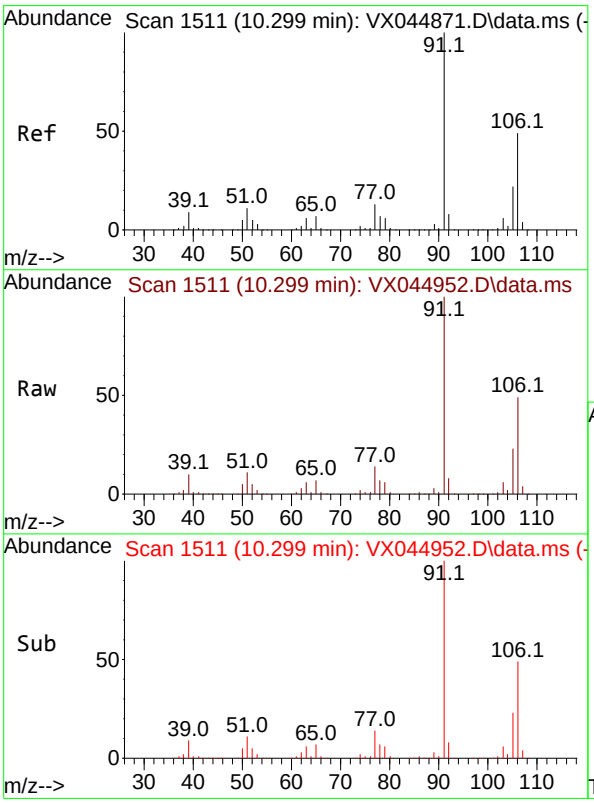
#67
Ethyl Benzene
Concen: 19.631 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 91 Resp: 122687

Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.9	35.9

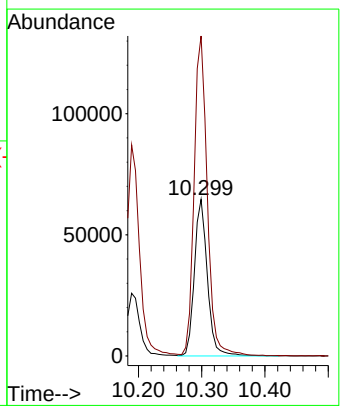


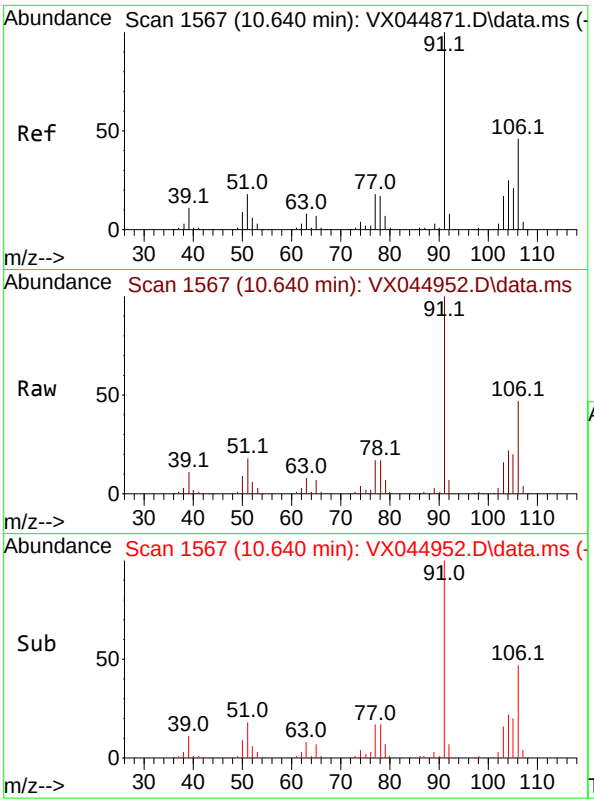


#68
m/p-Xylenes
Concen: 40.136 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:106 Resp: 92530

Ion	Ratio	Lower	Upper
106	100		
91	207.2	164.3	246.5



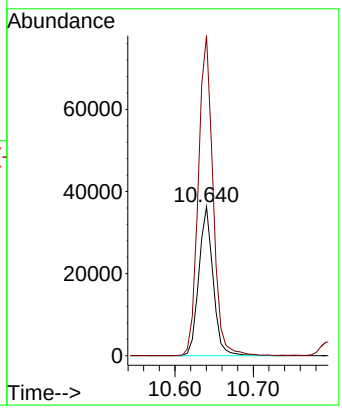


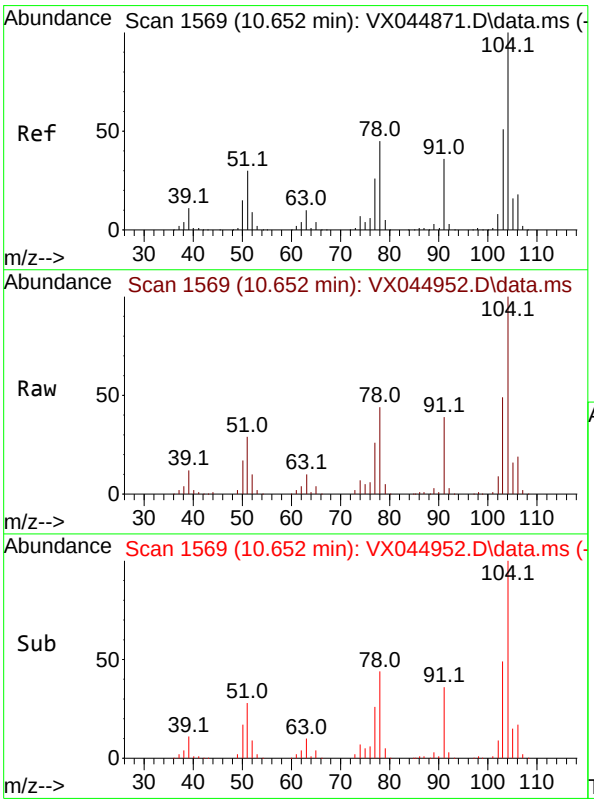
#69
o-Xylene
Concen: 19.838 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:106 Resp: 45891

Ion	Ratio	Lower	Upper
106	100		
91	221.9	108.5	325.5

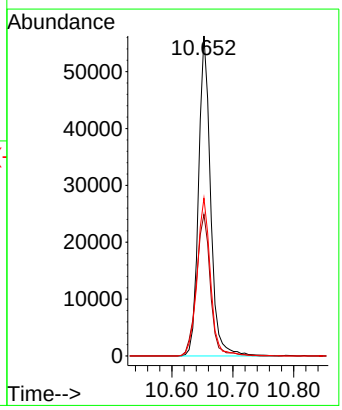


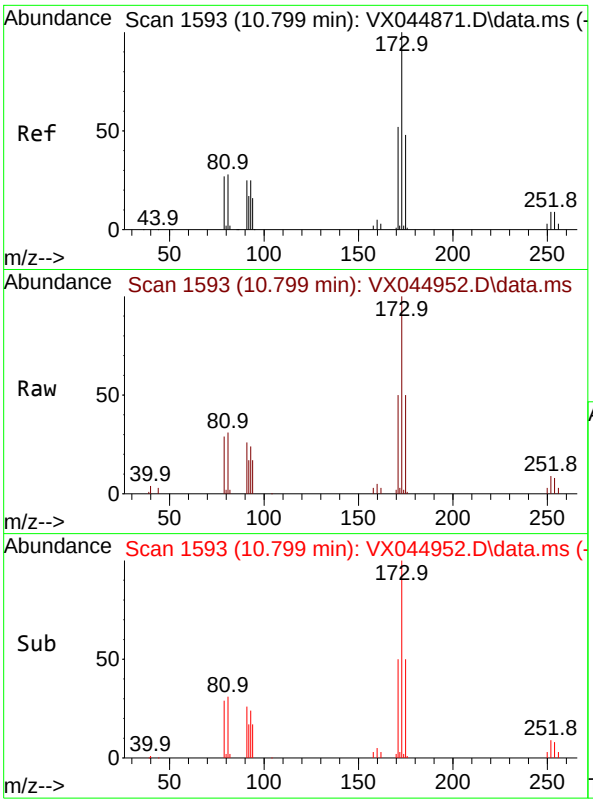


#70
Styrene
Concen: 20.741 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:104 Resp: 77302

Ion	Ratio	Lower	Upper
104	100		
78	51.2	40.5	60.7
103	54.7	43.6	65.4



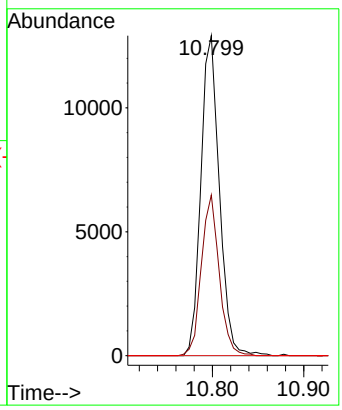


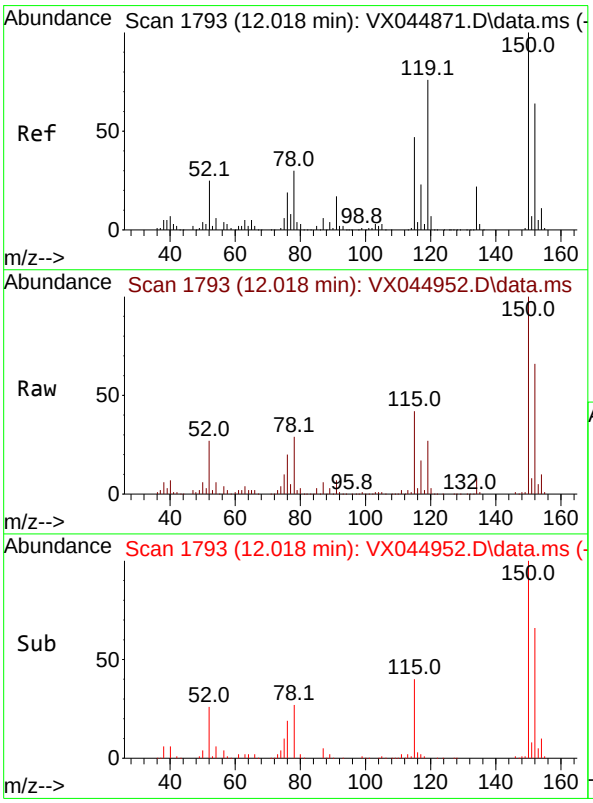
#71
Bromoform
Concen: 21.264 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:173 Resp: 18090

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.3	72.8
254	0.0	0.0	0.0

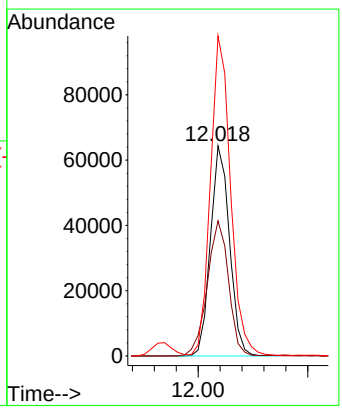


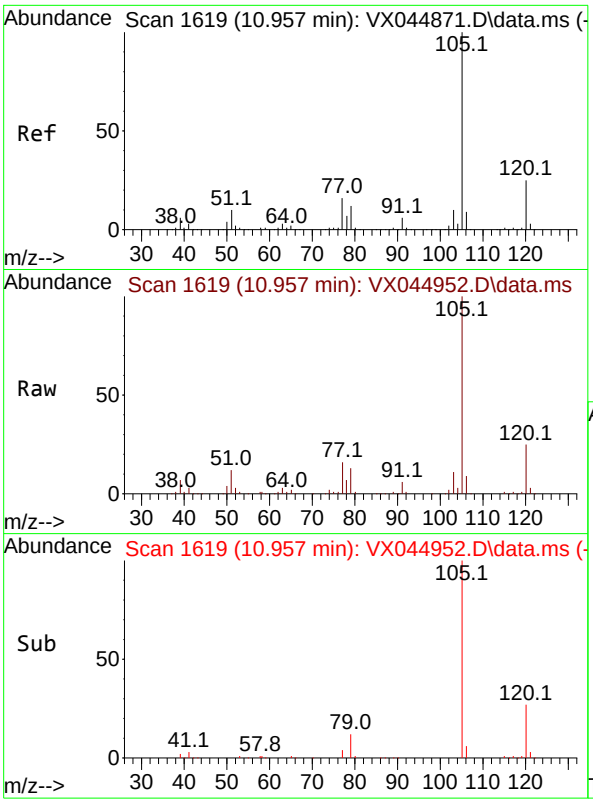


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:152 Resp: 77784

Ion	Ratio	Lower	Upper
152	100		
115	71.7	43.4	130.1
150	160.7	0.0	350.4



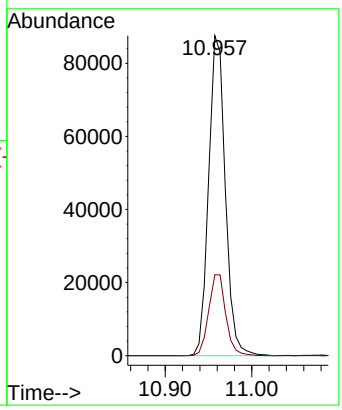


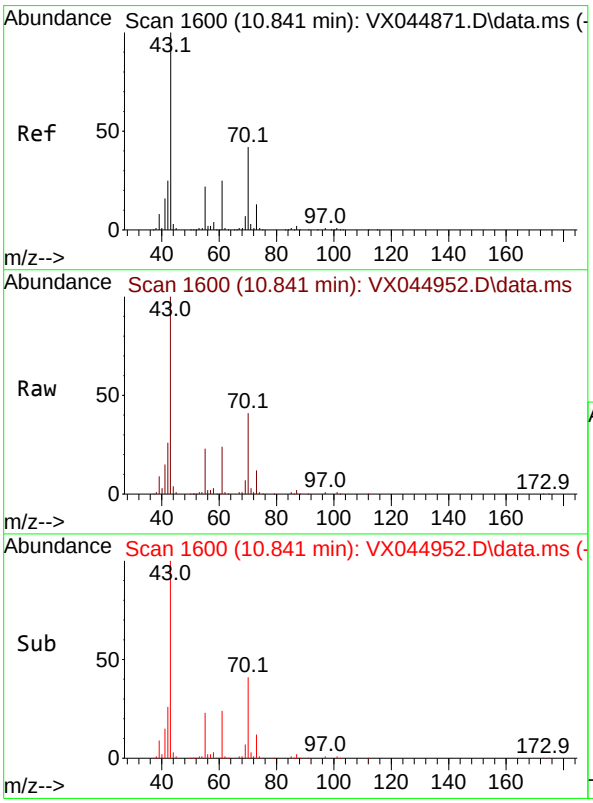
#73
Isopropylbenzene
Concen: 18.691 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:105 Resp: 117063

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

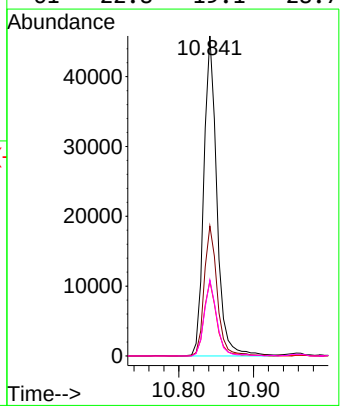


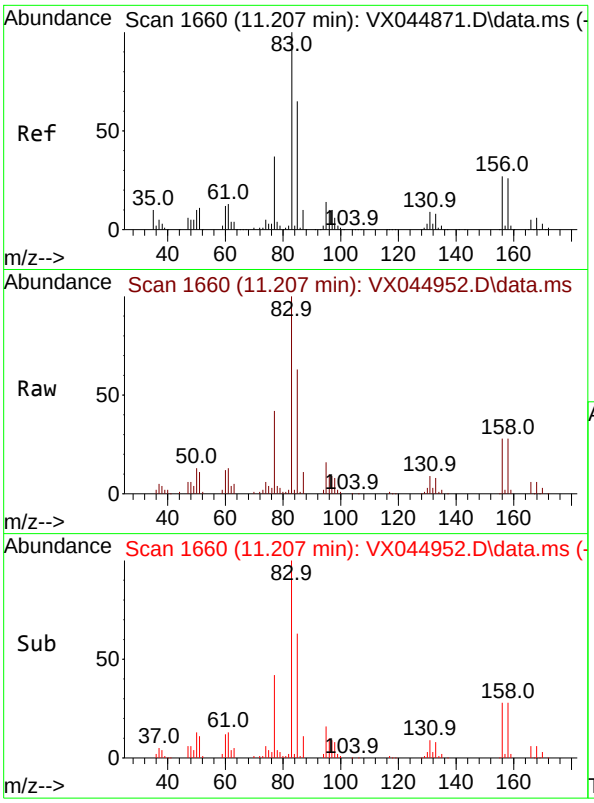


#74
N-amyl acetate
Concen: 19.604 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 43 Resp: 55559

Ion	Ratio	Lower	Upper
43	100		
70	40.6	33.7	50.5
55	22.9	18.6	27.8
61	22.8	19.1	28.7



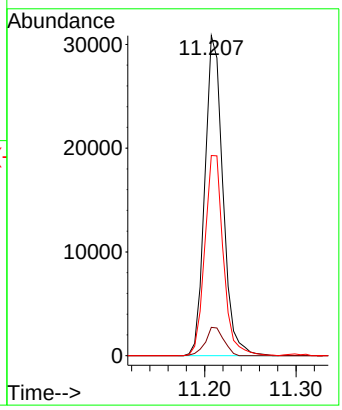


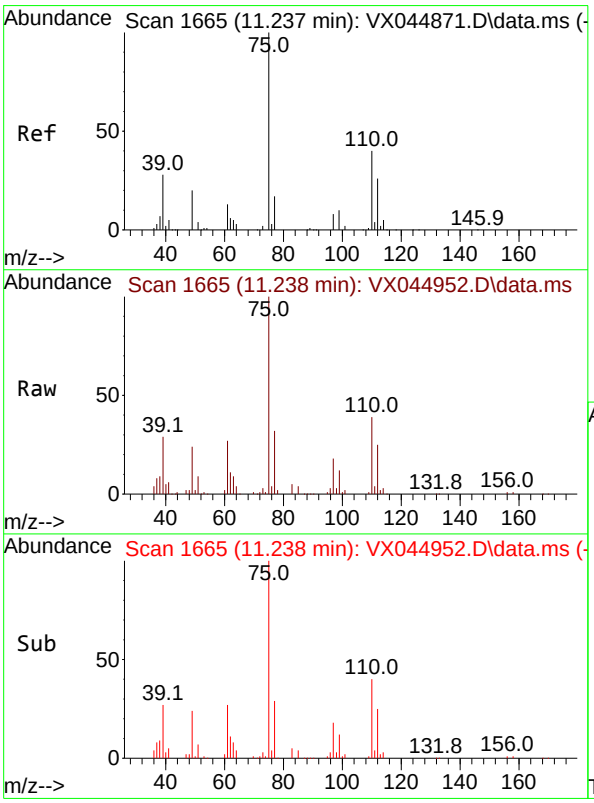
#75
1,1,2,2-Tetrachloroethane
Concen: 19.576 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 83 Resp: 42130

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.5
85	64.4	32.3	96.8

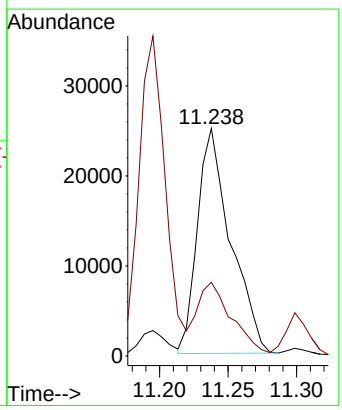


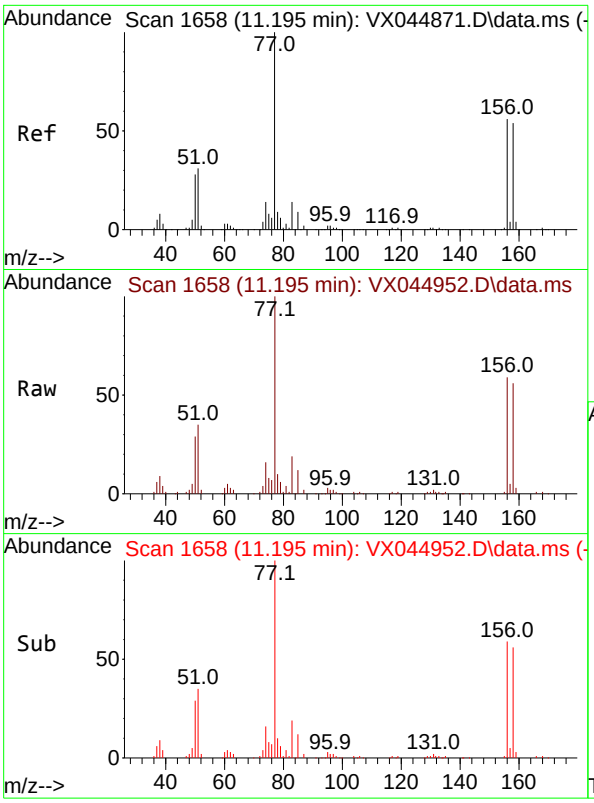


#76
1,2,3-Trichloropropane
Concen: 24.506 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 42262

Ion	Ratio	Lower	Upper
75	100		
77	34.1	21.9	65.7



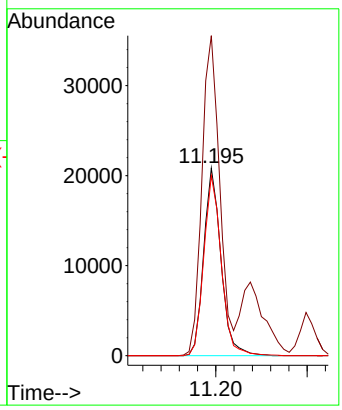


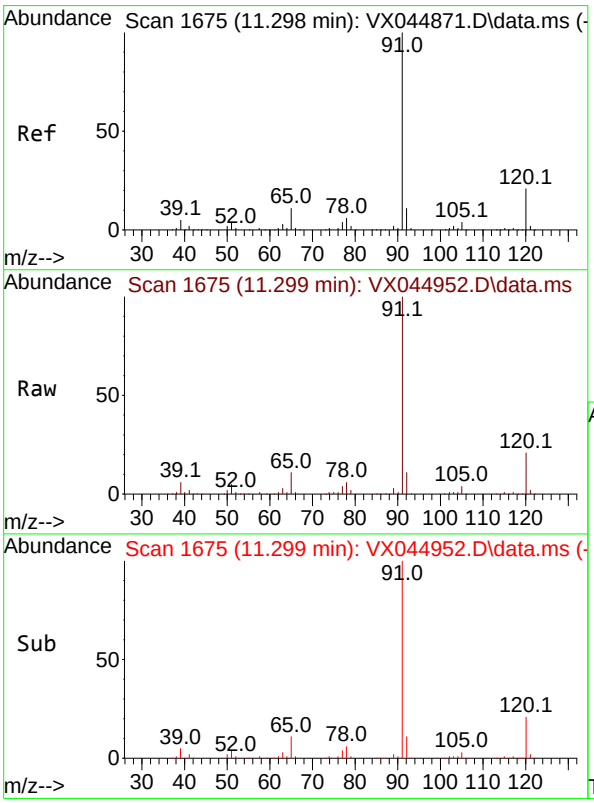
#77
Bromobenzene
Concen: 19.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:156 Resp: 27335

Ion	Ratio	Lower	Upper
156	100		
77	175.6	88.4	265.3
158	97.2	48.4	145.2

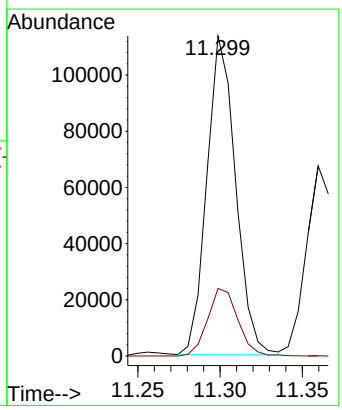


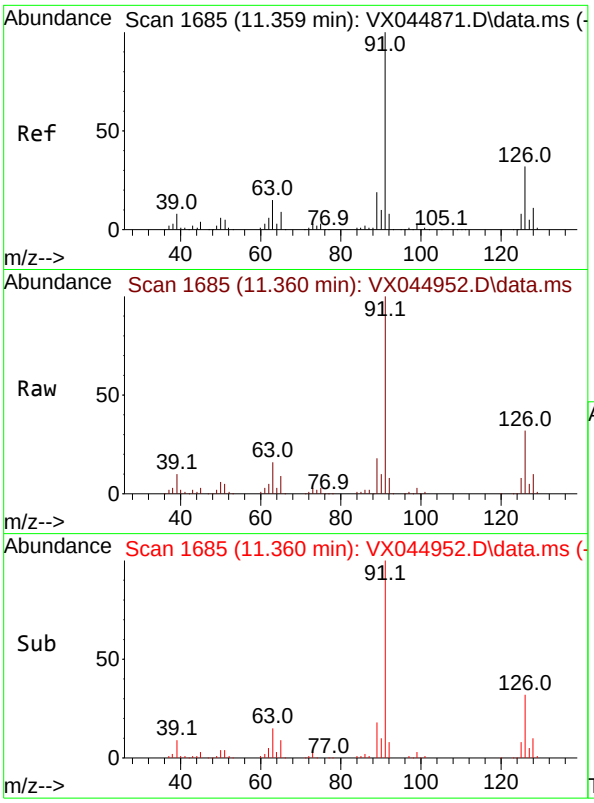


#78
n-propylbenzene
Concen: 19.101 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 91 Resp: 138085

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3



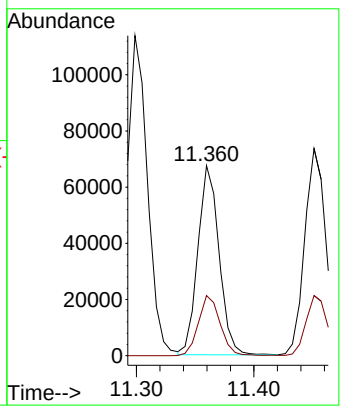


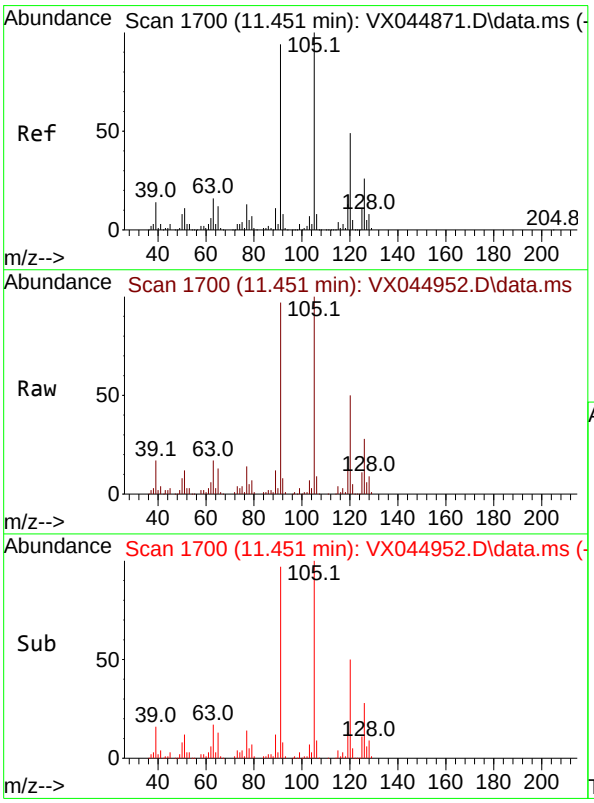
#79
2-Chlorotoluene
Concen: 18.982 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 91 Resp: 84337

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.6

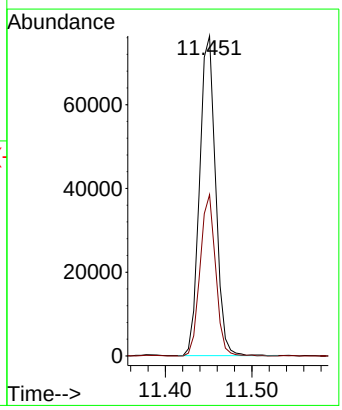


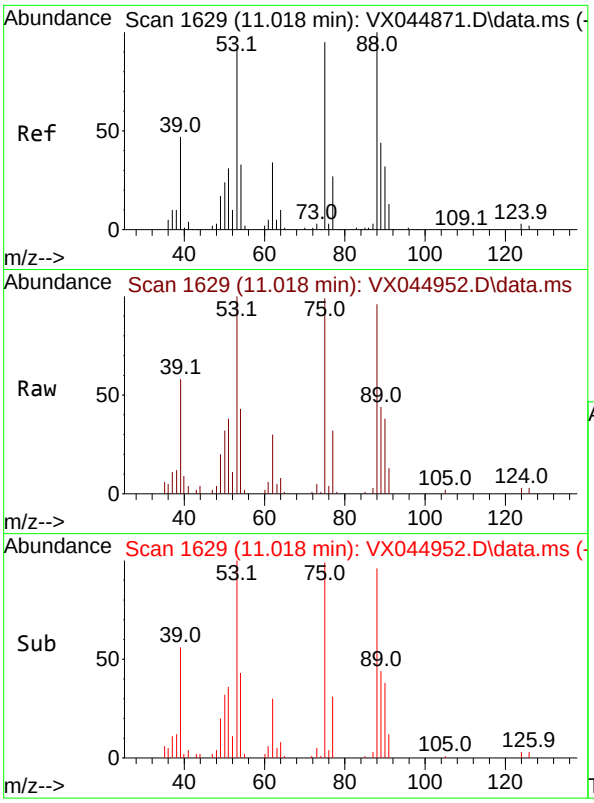


#80
1,3,5-Trimethylbenzene
Concen: 19.292 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:105 Resp: 98051

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.0	72.0



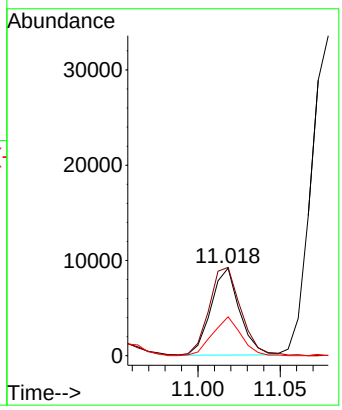


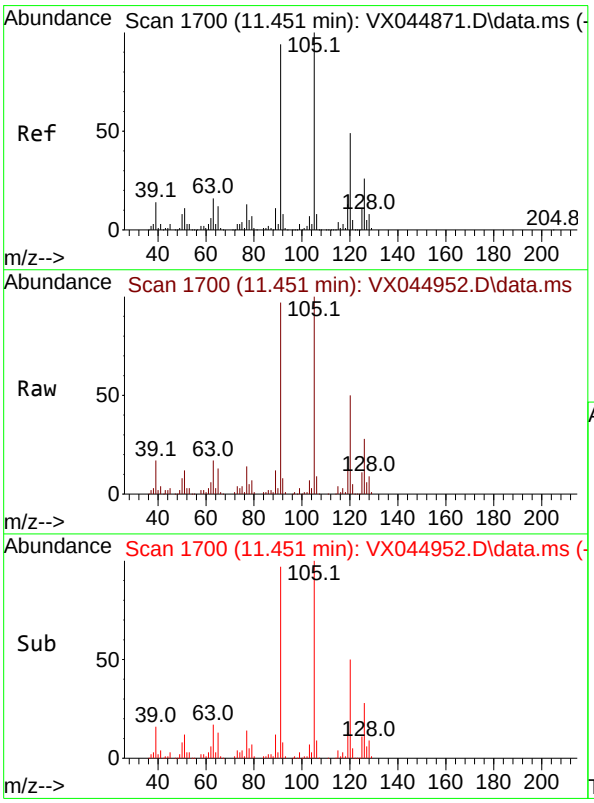
#81
trans-1,4-Dichloro-2-butene
Concen: 16.496 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 75 Resp: 11059

Ion	Ratio	Lower	Upper
75	100		
53	113.0	78.0	117.0
89	44.6	36.6	54.8

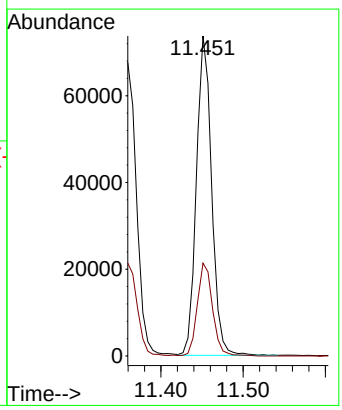


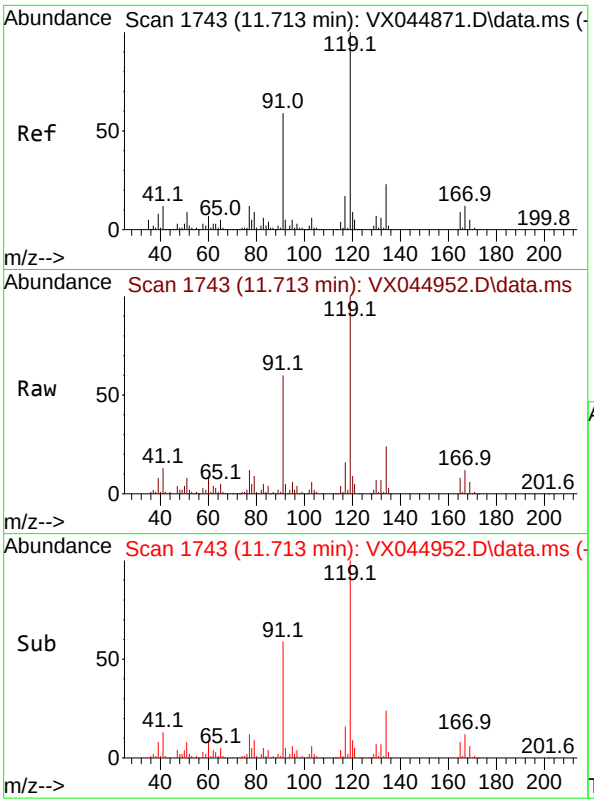


#82
4-Chlorotoluene
Concen: 19.233 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 91 Resp: 94538

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.2	42.6



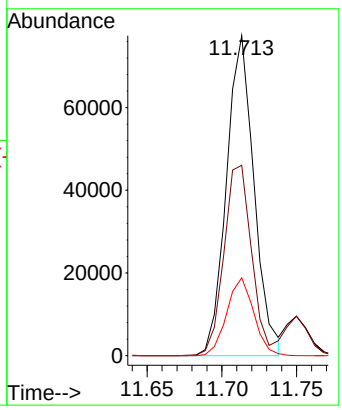


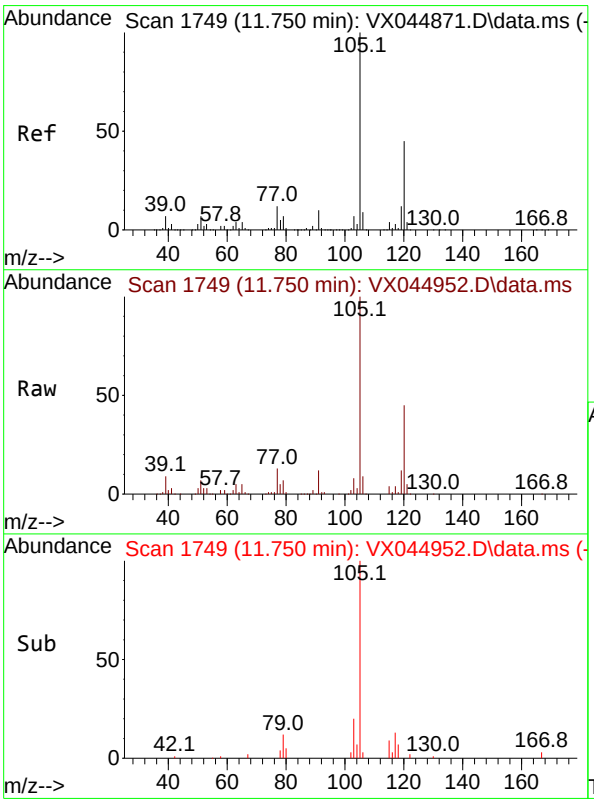
#83
tert-Butylbenzene
Concen: 19.359 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:119 Resp: 99538

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.1	87.4
134	23.7	11.5	34.5

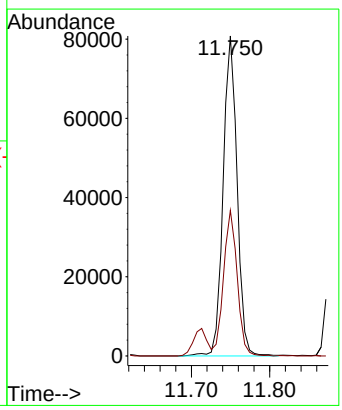


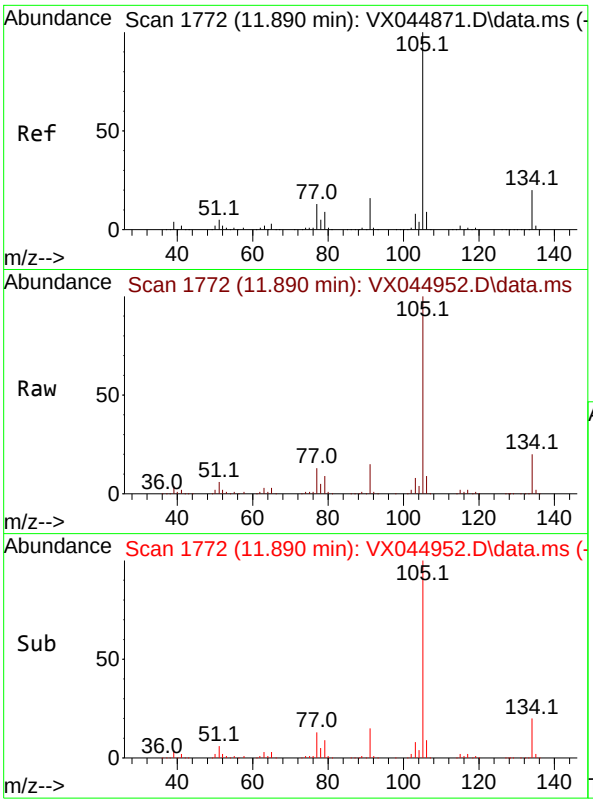


#84
1,2,4-Trimethylbenzene
Concen: 19.957 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:105 Resp: 100112

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.4	67.0



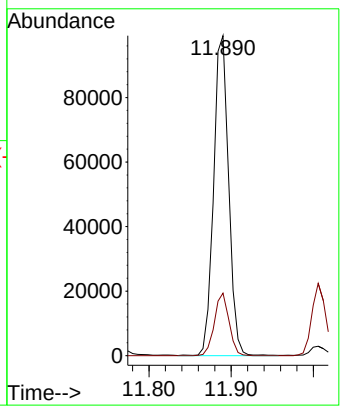


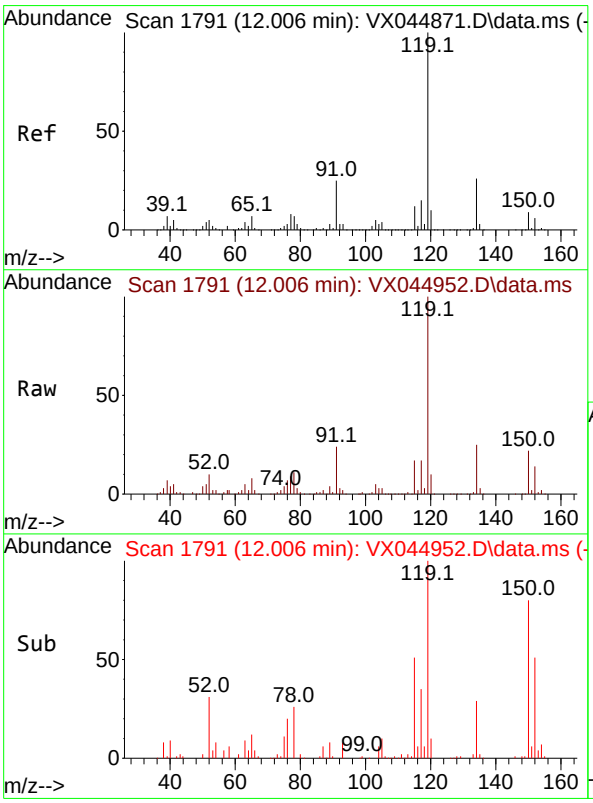
#85
sec-Butylbenzene
Concen: 19.808 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:105 Resp: 126113

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3

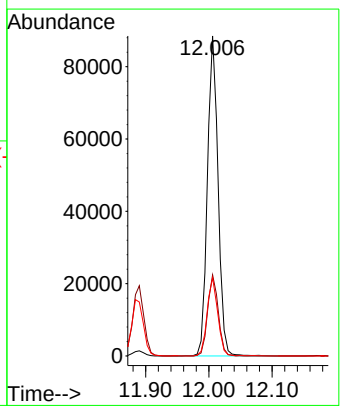


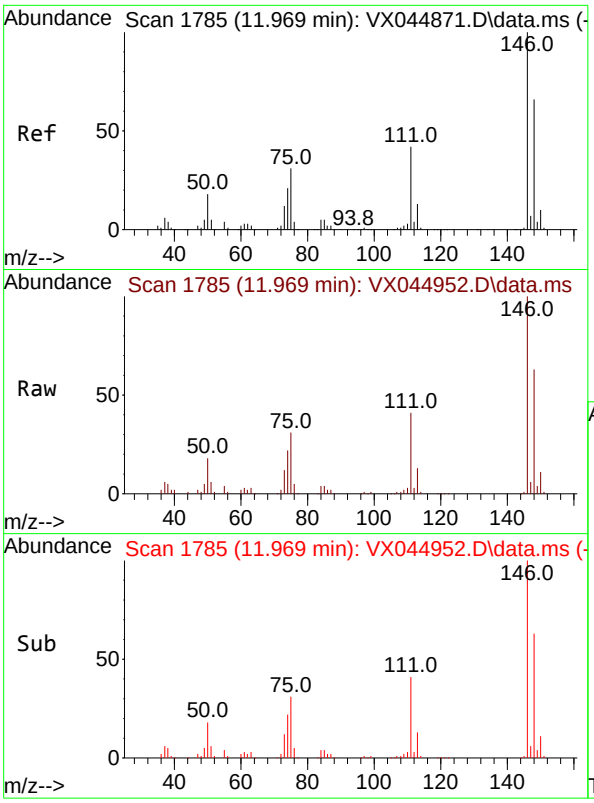


#86
p-Isopropyltoluene
Concen: 20.263 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:119 Resp: 103751

Ion	Ratio	Lower	Upper
119	100		
134	25.3	13.0	38.9
91	24.3	12.1	36.3



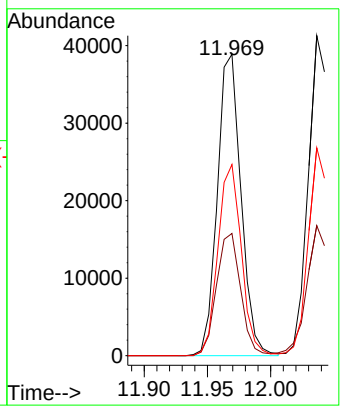


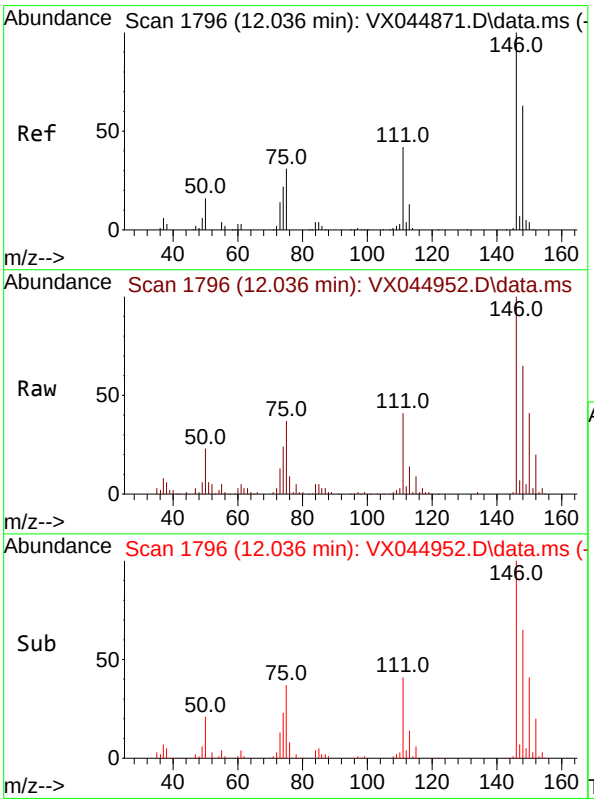
#87
1,3-Dichlorobenzene
Concen: 19.359 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:146 Resp: 50550

Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.2	63.6
148	62.9	32.5	97.5

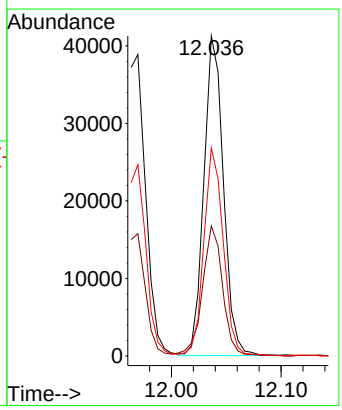


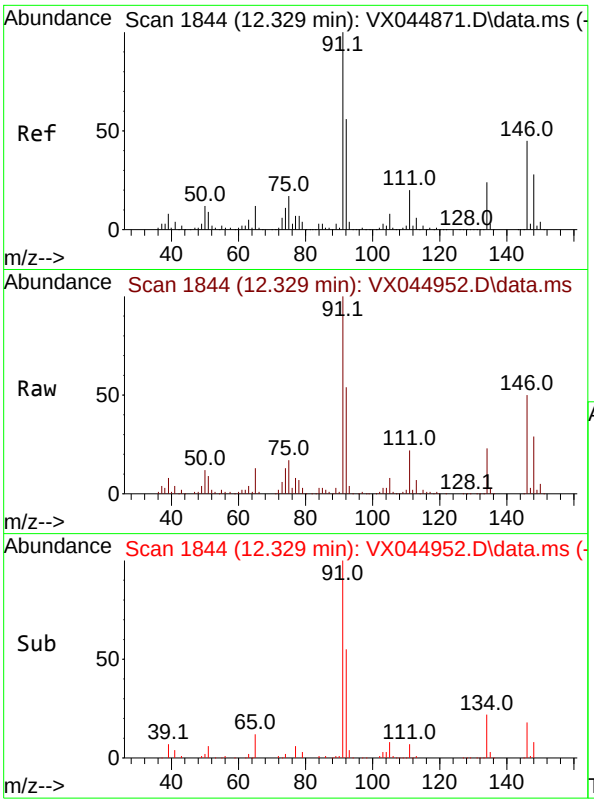


#88
1,4-Dichlorobenzene
Concen: 19.395 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:146 Resp: 51205

Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.4	61.3
148	64.7	32.0	96.0



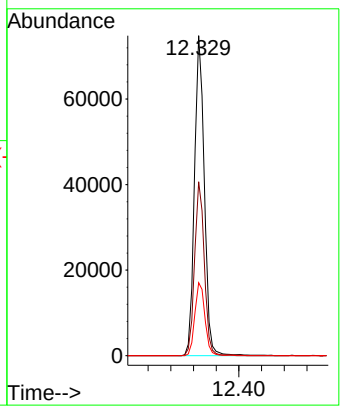


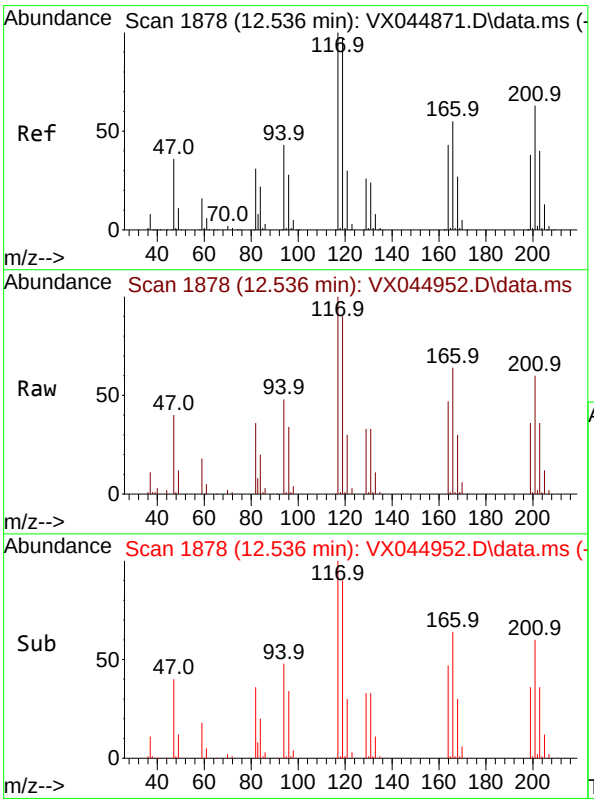
#89
n-Butylbenzene
Concen: 19.975 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion: 91 Resp: 90481

Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.2	81.6
134	23.3	12.1	36.3

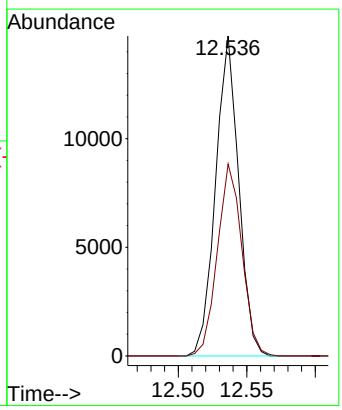


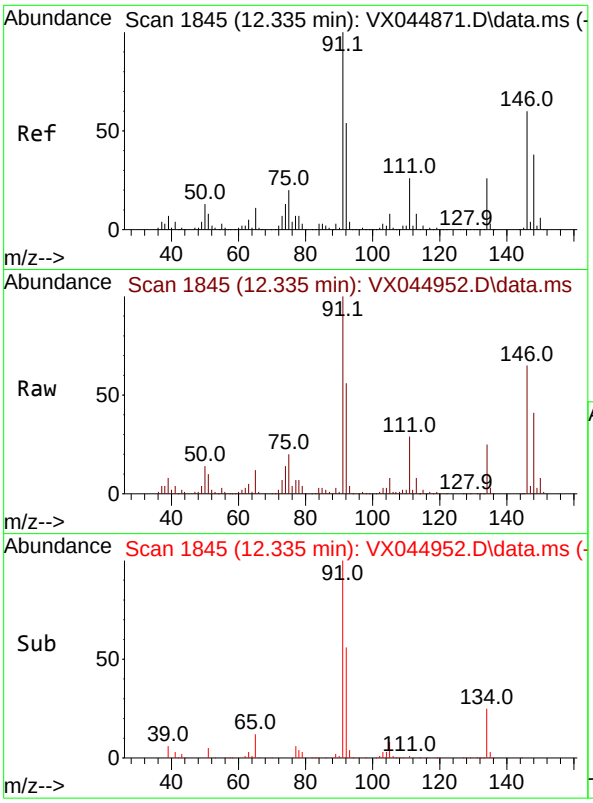


#90
Hexachloroethane
Concen: 17.989 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:117 Resp: 17246

Ion	Ratio	Lower	Upper
117	100		
201	63.8	32.5	97.5



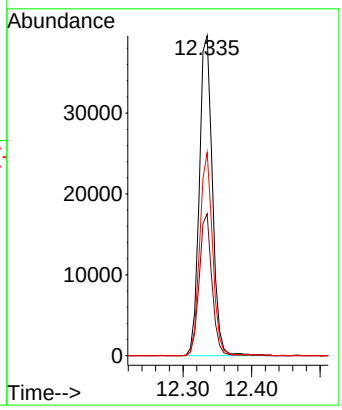


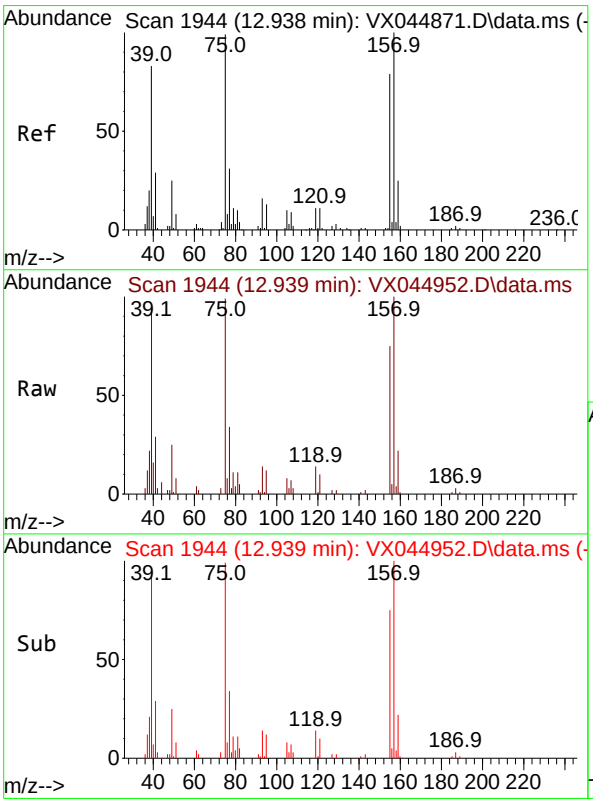
#91
1,2-Dichlorobenzene
Concen: 20.469 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:146 Resp: 52530

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.8	65.4
148	62.6	31.9	95.9

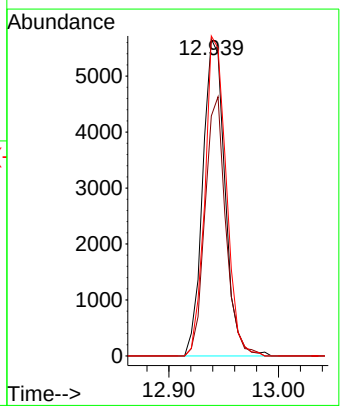


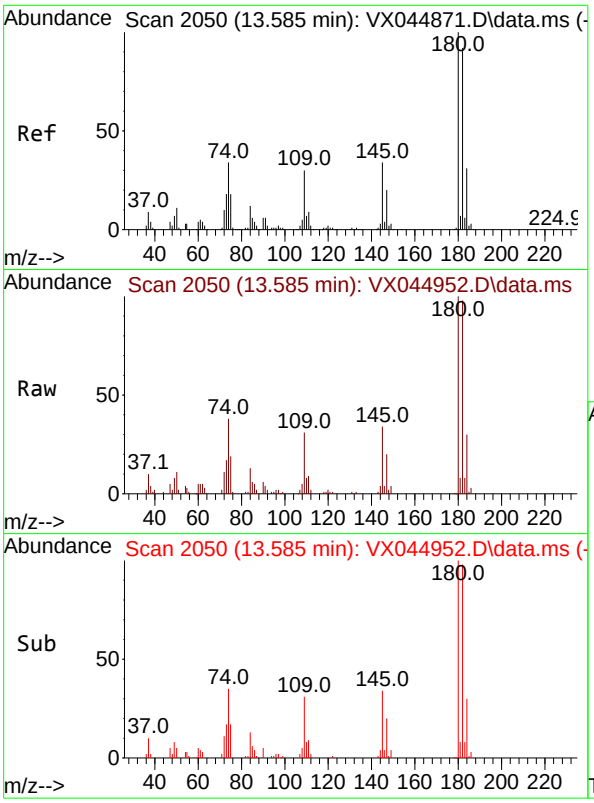


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.217 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion: 75 Resp: 7941

Ion	Ratio	Lower	Upper
75	100		
155	76.6	40.5	121.4
157	96.7	51.4	154.3



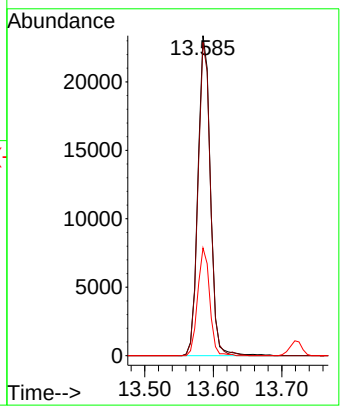


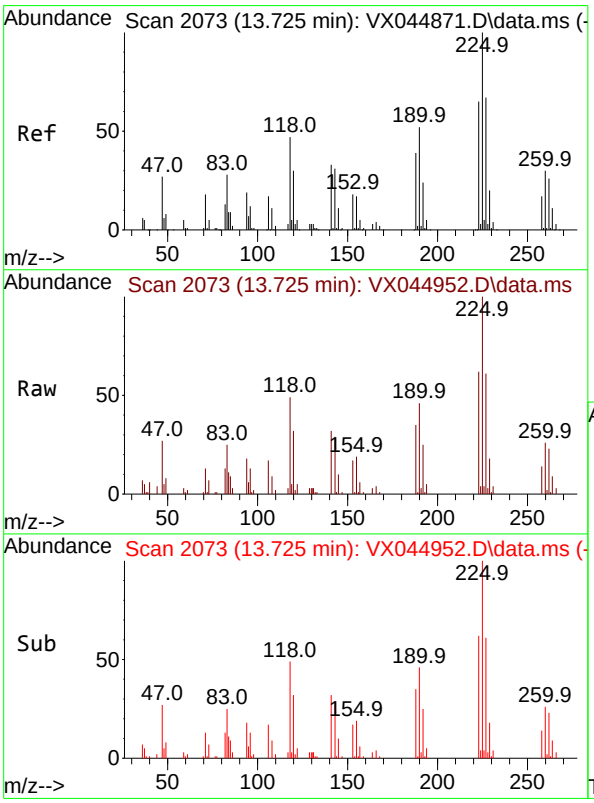
#93
1,2,4-Trichlorobenzene
Concen: 19.066 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:180 Resp: 29608

Ion	Ratio	Lower	Upper
180	100		
182	97.1	47.6	142.8
145	32.3	16.4	49.1

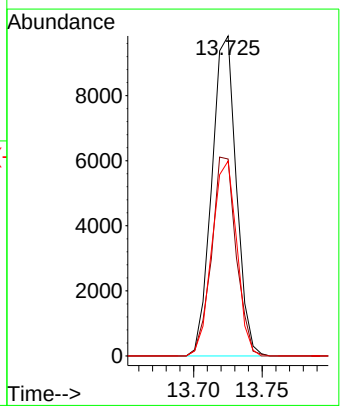


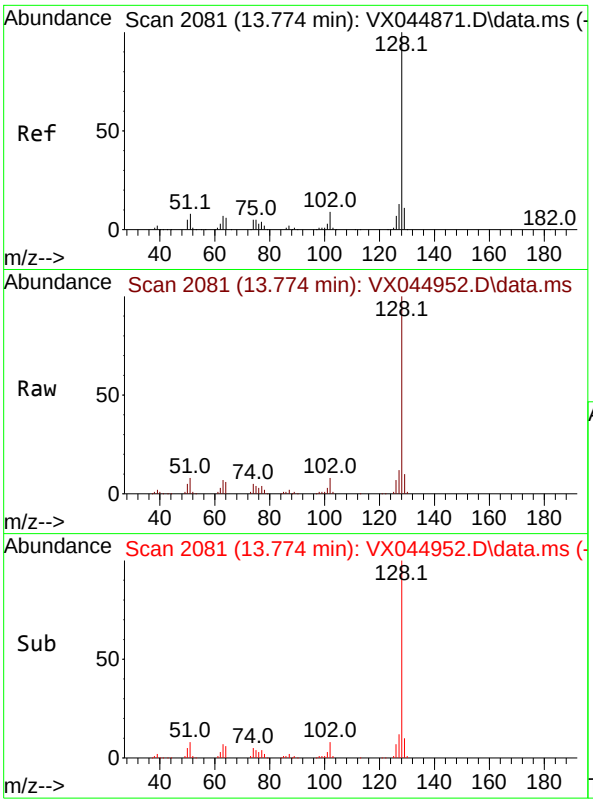


#94
Hexachlorobutadiene
Concen: 19.827 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:225 Resp: 12223

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.4	94.2
227	61.6	32.3	96.8



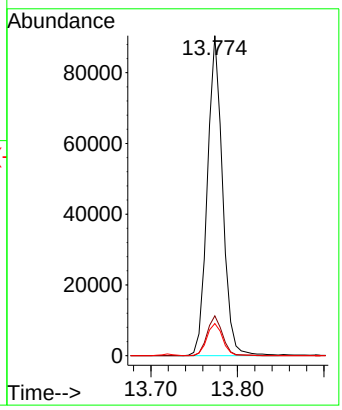


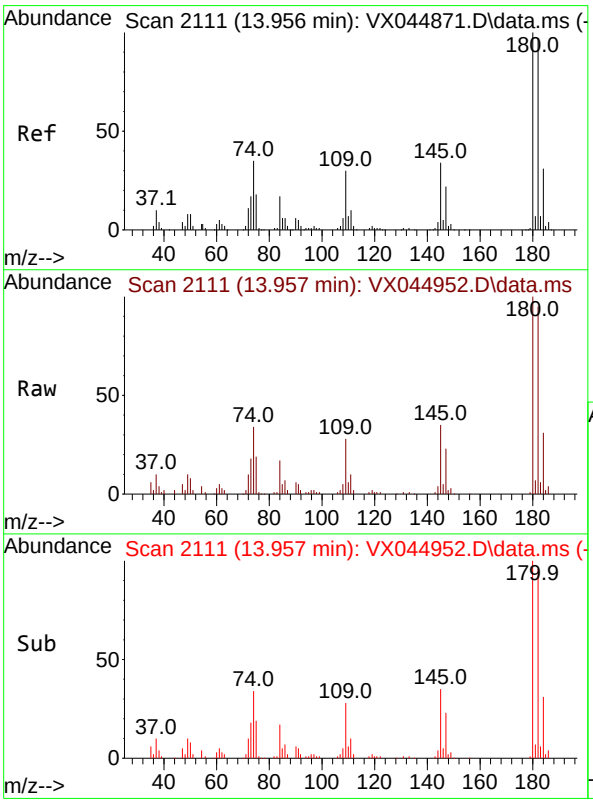
#95
Naphthalene
Concen: 19.661 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VX0214WBSD01

Tgt Ion:128 Resp: 110366

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.5	8.9	13.3

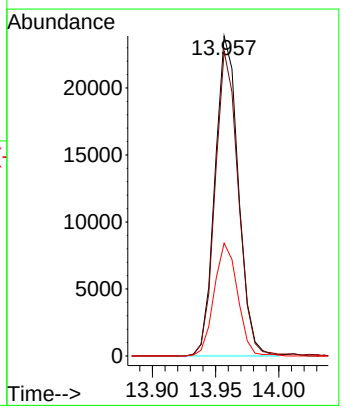




#96
1,2,3-Trichlorobenzene
Concen: 19.564 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044952.D
Acq: 14 Feb 2025 11:40

Tgt Ion:180 Resp: 30613

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.9	143.6
145	35.5	17.1	51.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044960.D
Acq On : 14 Feb 2025 14:43
Operator : JC/MD
Sample : Q1352-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Quant Time: Feb 14 22:15:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

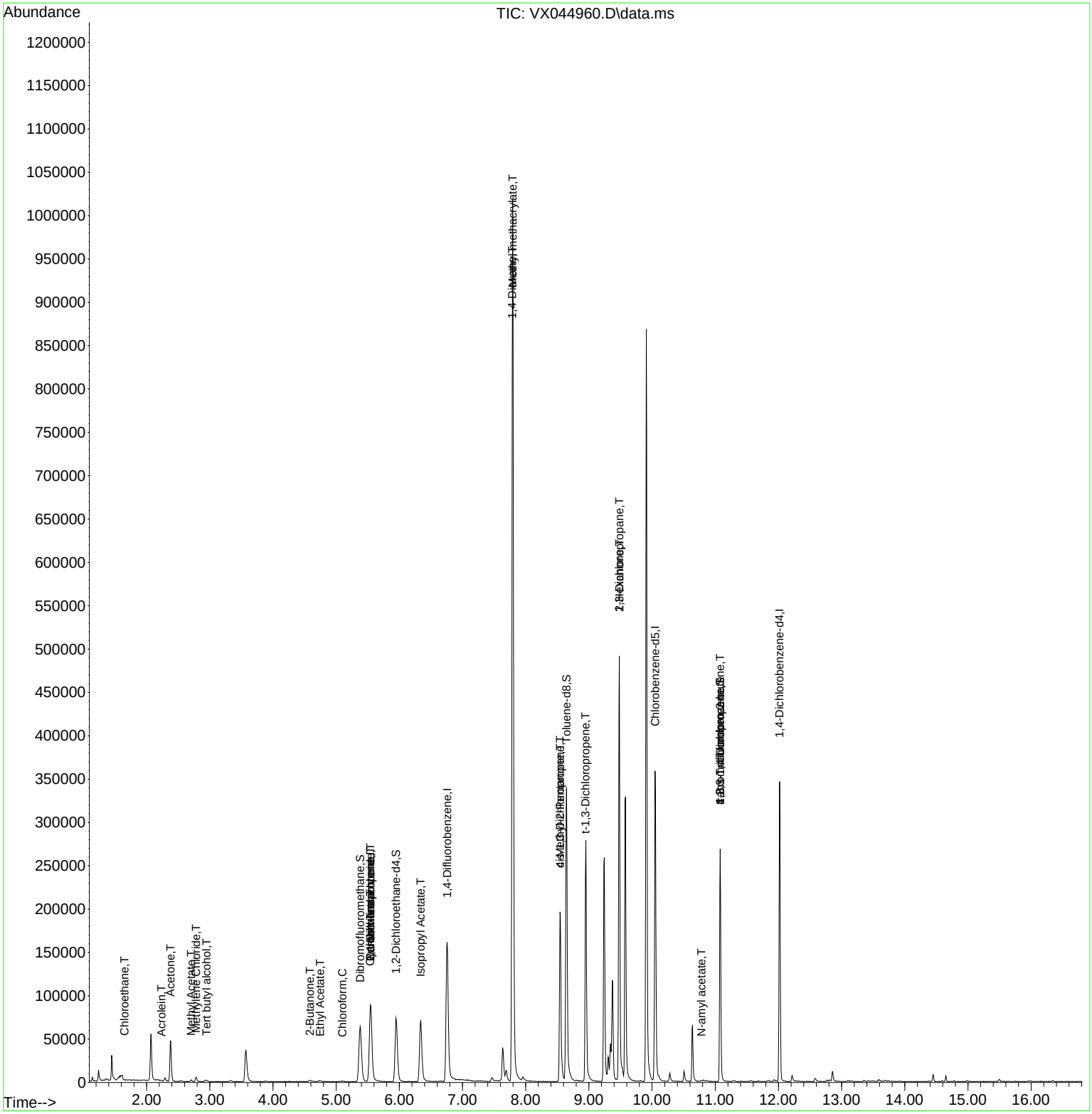
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	83348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	169946	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	154821	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66540	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	67561	55.375	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.740%			
35) Dibromofluoromethane	5.379	113	56676	51.294	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.580%			
50) Toluene-d8	8.647	98	211950	50.728	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.460%			
62) 4-Bromofluorobenzene	11.079	95	72775	51.666	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.340%			
Target Compounds						Qvalue
6) Chloroethane	1.648	64	87	1.472	ug/l #	42
11) Tert butyl alcohol	2.947	59	1739	7.683	ug/l #	73
13) Acrolein	2.233	56	500	2.141	ug/l	95
16) Acetone	2.380	43	49394	100.706	ug/l	96
18) Methyl Acetate	2.703	43	2336	1.509	ug/l #	89
20) Methylene Chloride	2.782	84	2256	1.878	ug/l	91
25) 2-Butanone	4.587	43	3440	4.319	ug/l #	89
30) Chloroform	5.099	83	879	0.441	ug/l	91
31) Cyclohexane	5.538	56	2126	1.122	ug/l #	24
36) 1,1-Dichloropropene	5.544	75	7316	4.589	ug/l #	50
37) Ethyl Acetate	4.745	43	2719	1.533	ug/l #	73
38) Carbon Tetrachloride	5.544	117	9006	5.765	ug/l #	14
43) Isopropyl Acetate	6.336	43	100784	35.198	ug/l	99
48) Methyl methacrylate	7.793	41	87680	64.944	ug/l #	44
49) 1,4-Dioxane	7.787	88	70	2.417	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	77024	44.248	ug/l #	50
53) t-1,3-Dichloropropene	8.945	75	634	0.377	ug/l #	42
54) cis-1,3-Dichloropropene	8.543	75	32781	17.471	ug/l #	64
57) 1,3-Dichloropropane	9.482	76	4585	2.299	ug/l #	42
59) 2-Hexanone	9.482	43	61975	49.414	ug/l #	51
74) N-amyl acetate	10.781	43	591	0.244	ug/l #	43
76) 1,2,3-Trichloropropane	11.079	75	38480	26.083	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	38480	67.095	ug/l #	11

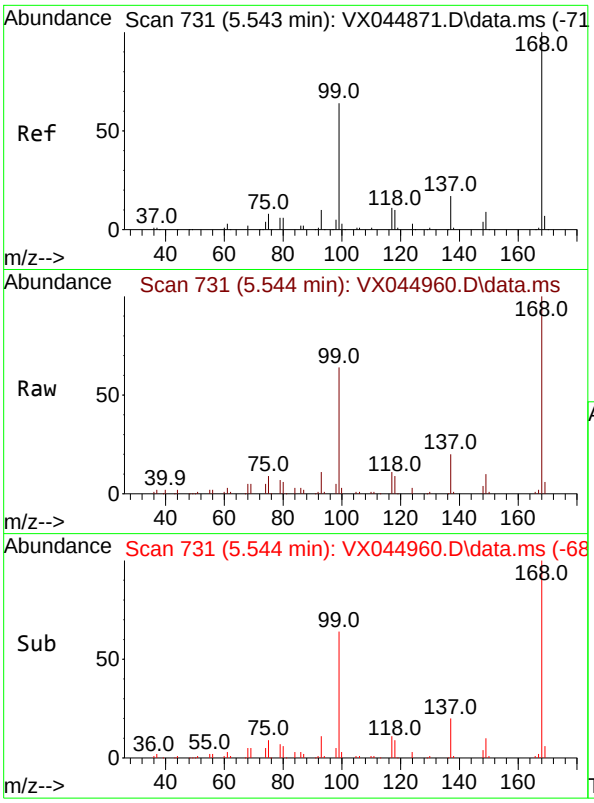
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044960.D
Acq On : 14 Feb 2025 14:43
Operator : JC/MD
Sample : Q1352-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Quant Time: Feb 14 22:15:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



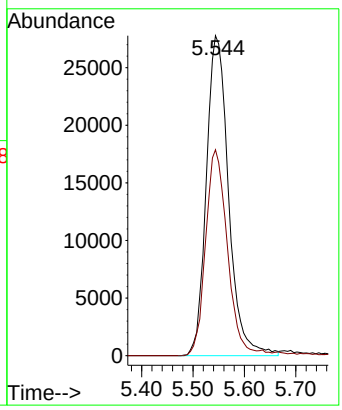


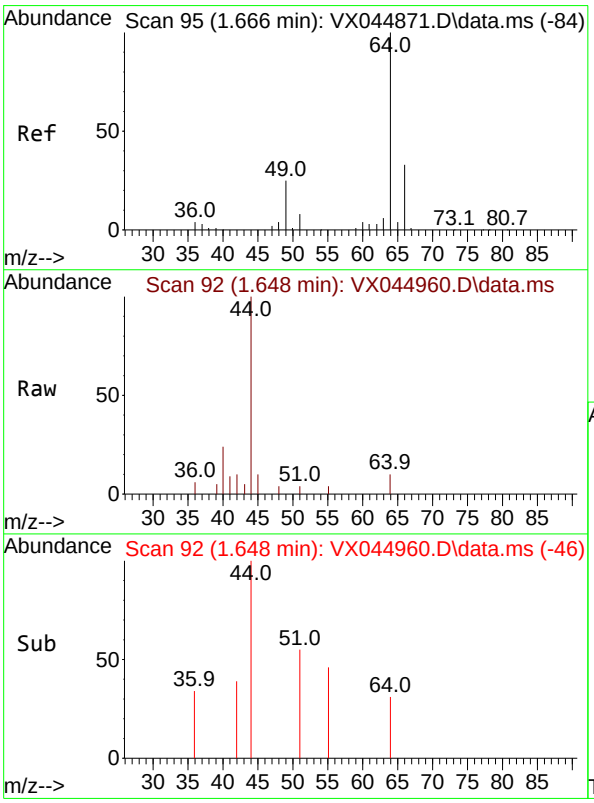
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion:168 Resp: 83348

Ion	Ratio	Lower	Upper
168	100		
99	64.3	51.2	76.8

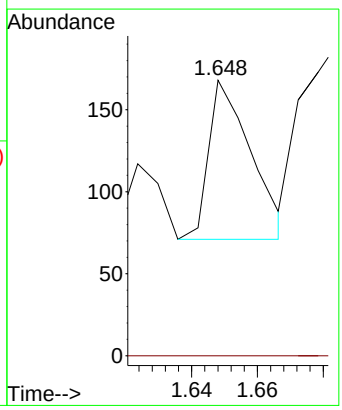


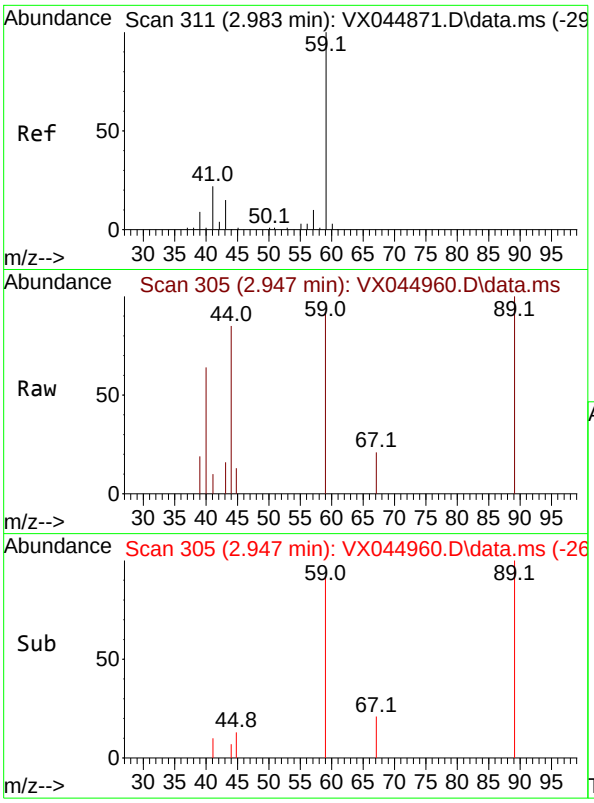


#6
Chloroethane
Concen: 1.472 ug/l
RT: 1.648 min Scan# 92
Delta R.T. -0.018 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 64 Resp: 87

Ion	Ratio	Lower	Upper
64	100		
66	0.0	25.9	38.9#



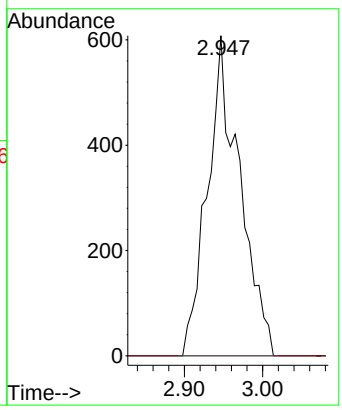


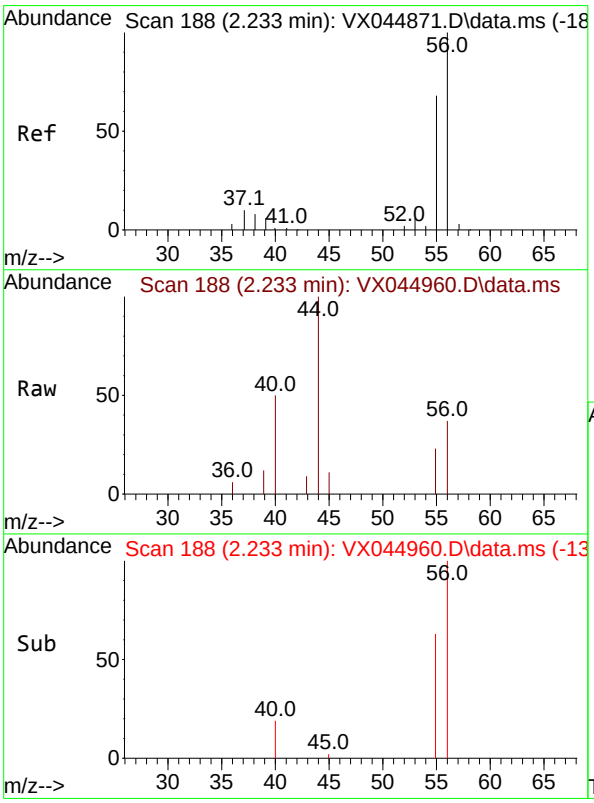
#11
Tert butyl alcohol
Concen: 7.683 ug/l
RT: 2.947 min Scan# 3
Delta R.T. -0.036 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 59 Resp: 1739

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#

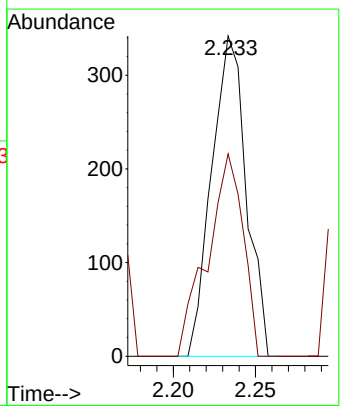


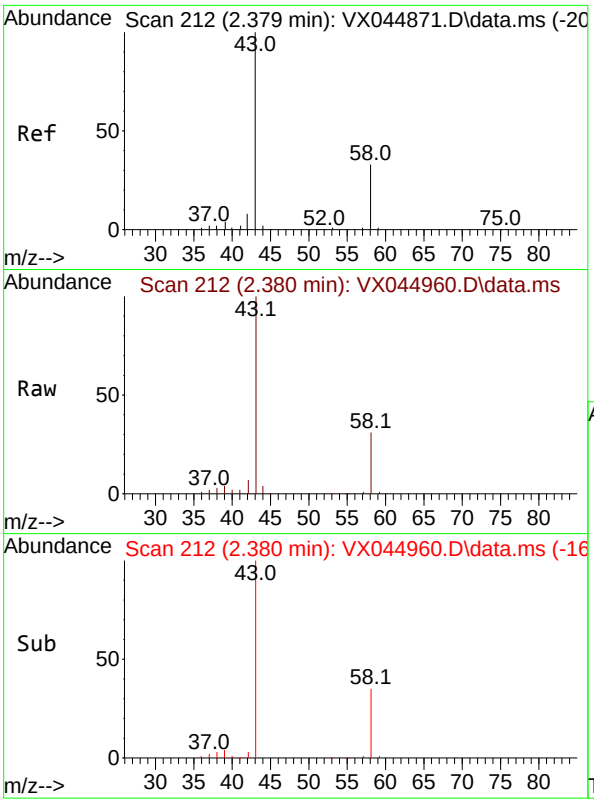


#13
Acrolein
Concen: 2.141 ug/l
RT: 2.233 min Scan# 188
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 56 Resp: 500

Ion	Ratio	Lower	Upper
56	100		
55	65.2	55.7	83.5



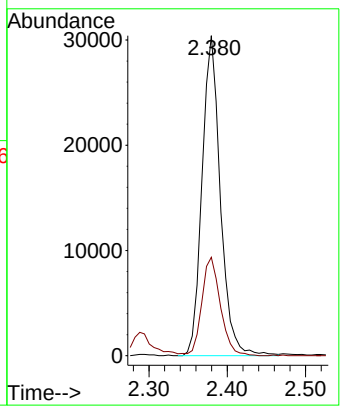


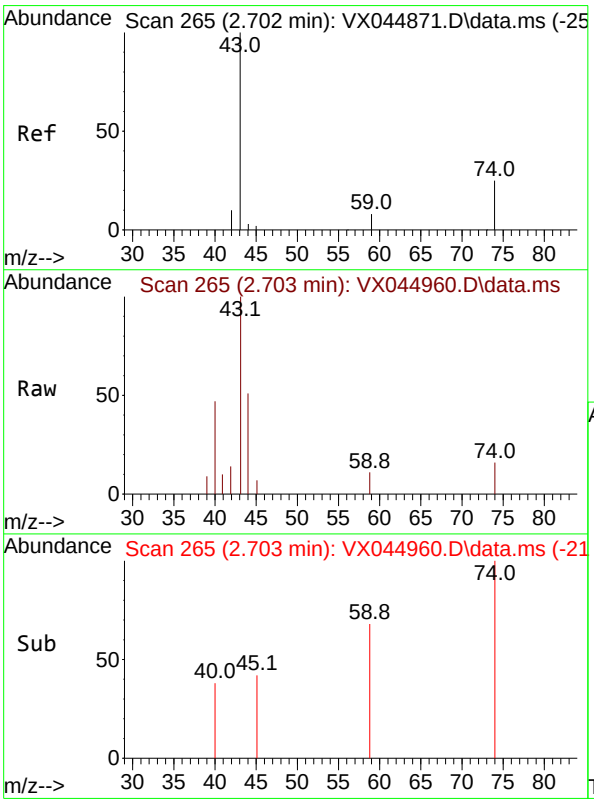
#16
Acetone
Concen: 100.706 ug/l
RT: 2.380 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 43 Resp: 49394

Ion	Ratio	Lower	Upper
43	100		
58	30.8	26.5	39.7

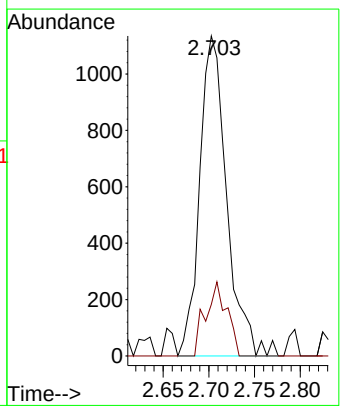


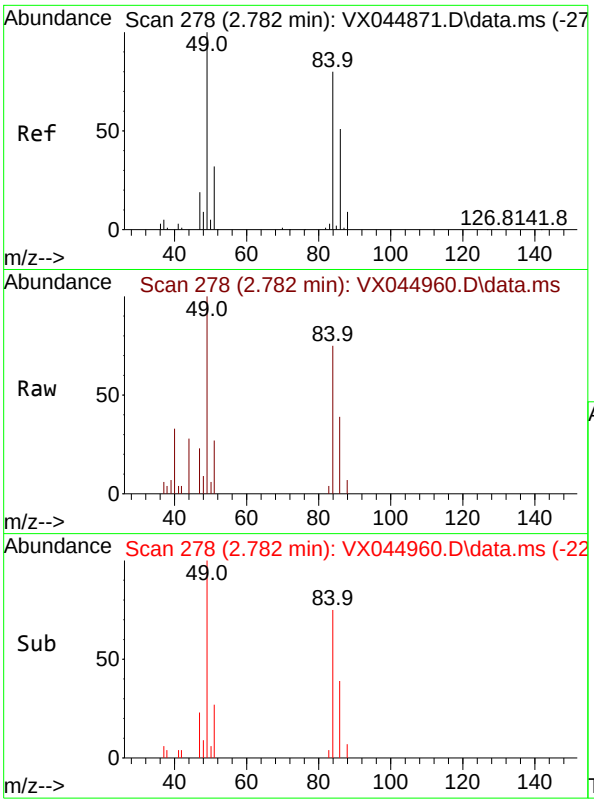


#18
Methyl Acetate
Concen: 1.509 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 43 Resp: 2336

Ion	Ratio	Lower	Upper
43	100		
74	18.2	18.9	28.3#



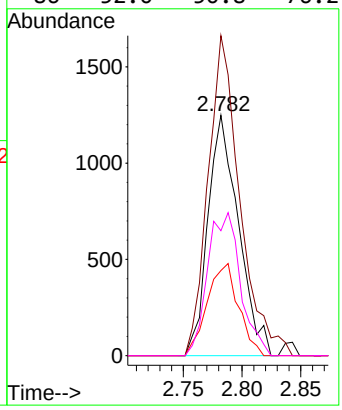


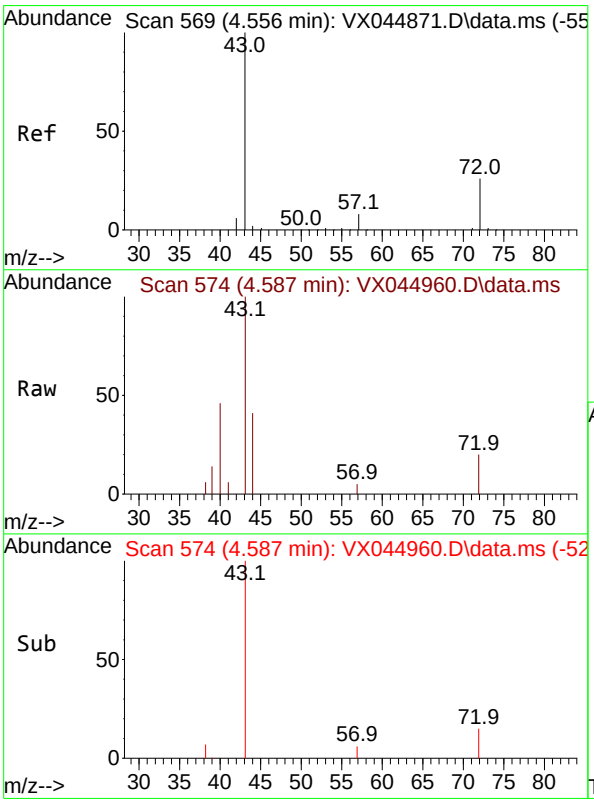
#20
Methylene Chloride
Concen: 1.878 ug/l
RT: 2.782 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 84 Resp: 2256

Ion	Ratio	Lower	Upper
84	100		
49	133.2	100.1	150.1
51	35.4	31.7	47.5
86	52.0	50.8	76.2

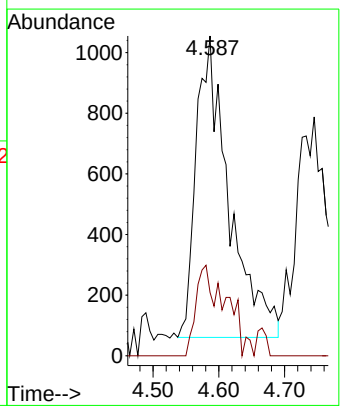


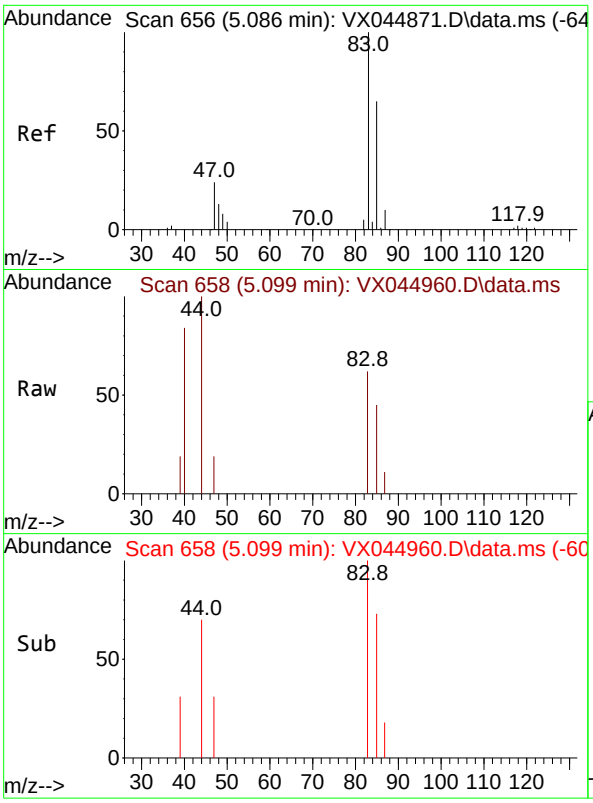


#25
2-Butanone
Concen: 4.319 ug/l
RT: 4.587 min Scan# 574
Delta R.T. 0.031 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 43 Resp: 3440

Ion	Ratio	Lower	Upper
43	100		
72	21.0	21.2	31.8#



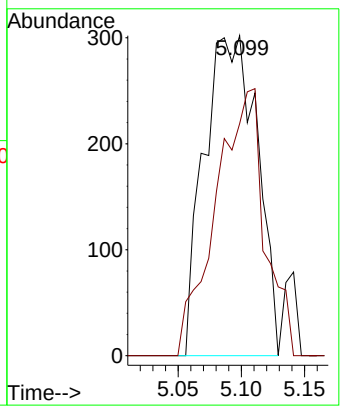


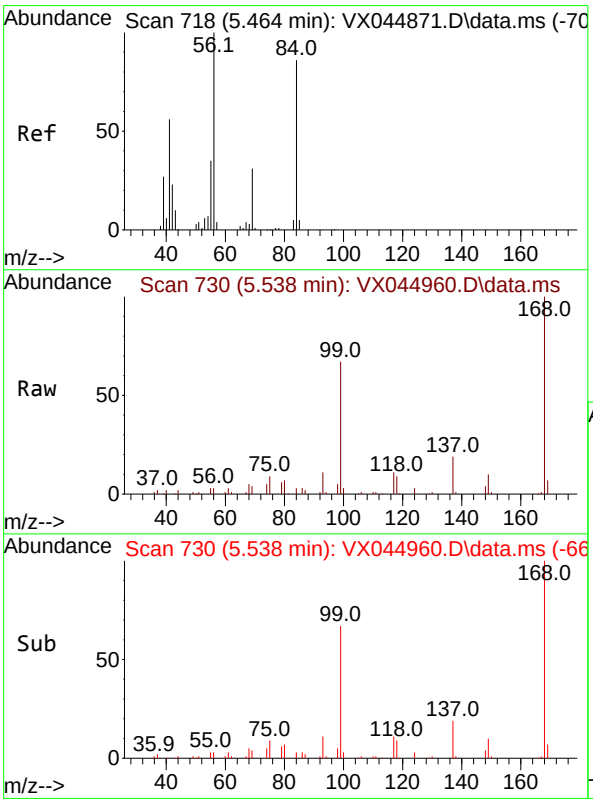
#30
Chloroform
Concen: 0.441 ug/l
RT: 5.099 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 83 Resp: 879

Ion	Ratio	Lower	Upper
83	100		
85	72.5	52.1	78.1

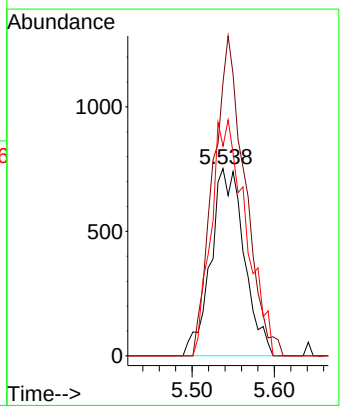


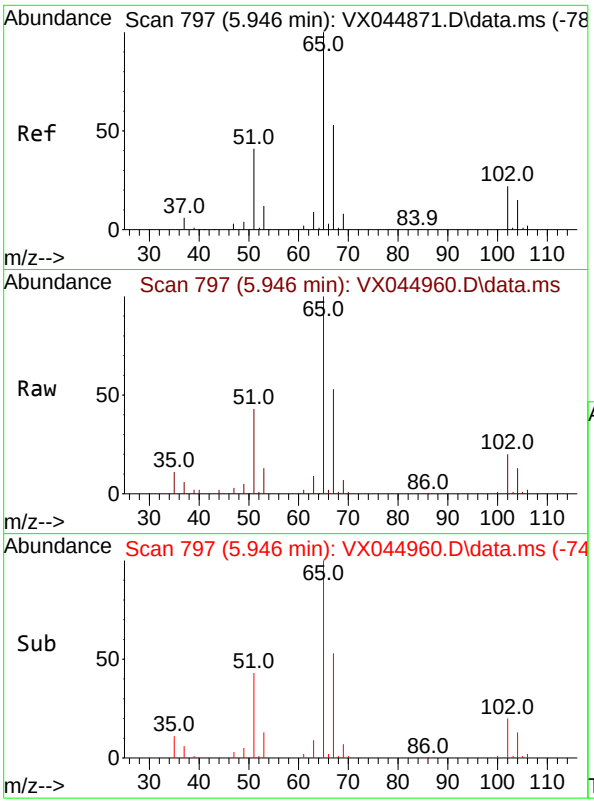


#31
Cyclohexane
Concen: 1.122 ug/l
RT: 5.538 min Scan# 730
Delta R.T. 0.073 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 56 Resp: 2126

Ion	Ratio	Lower	Upper
56	100		
69	146.0	24.4	36.6#
84	112.0	69.0	103.6#



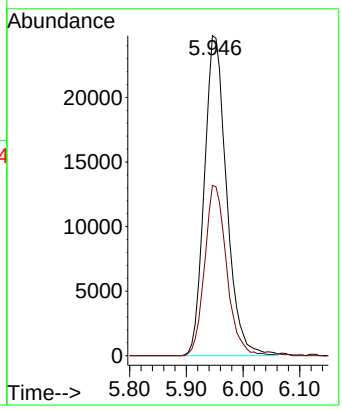


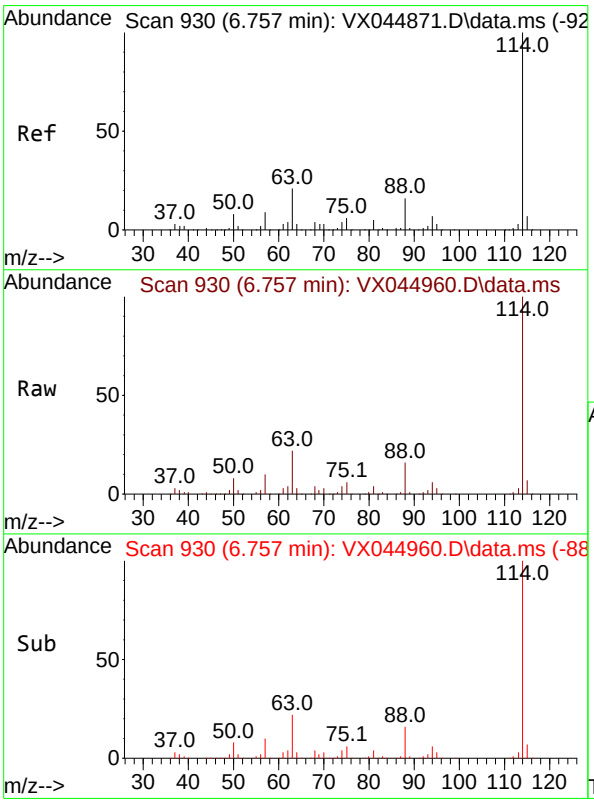
#33
1,2-Dichloroethane-d4
Concen: 55.375 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 65 Resp: 67561

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	108.2

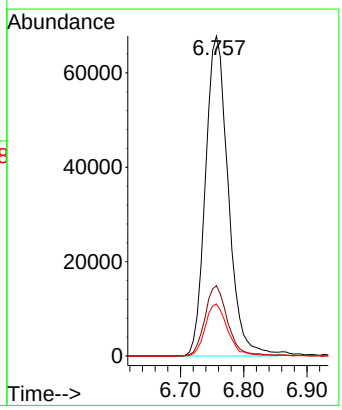


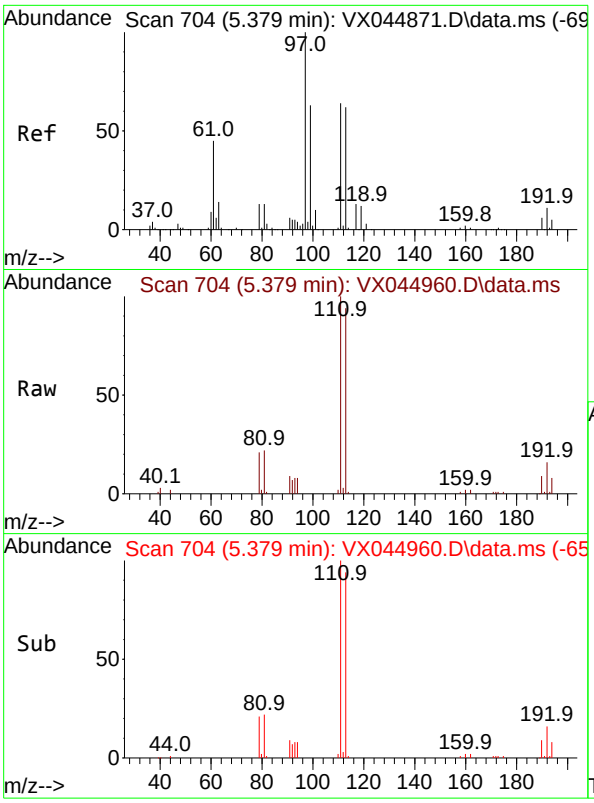


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion:114 Resp: 169946

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	42.4
88	16.3	0.0	31.4



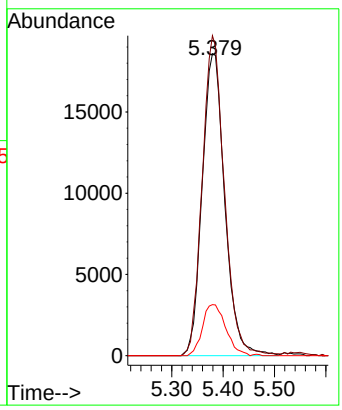


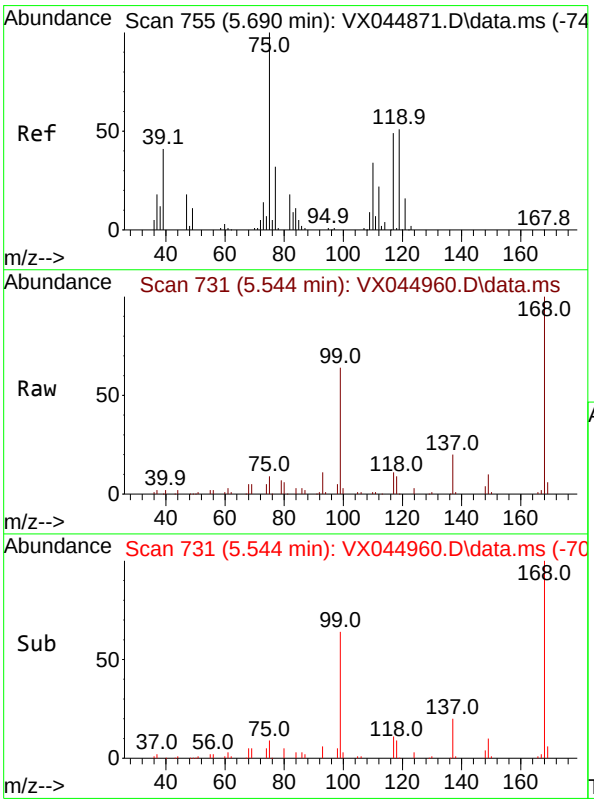
#35
Dibromofluoromethane
Concen: 51.294 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion:113 Resp: 56676

Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.5	125.3
192	17.5	14.4	21.6

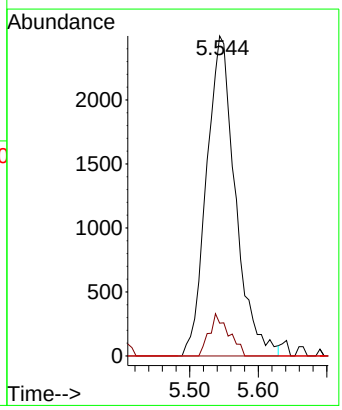


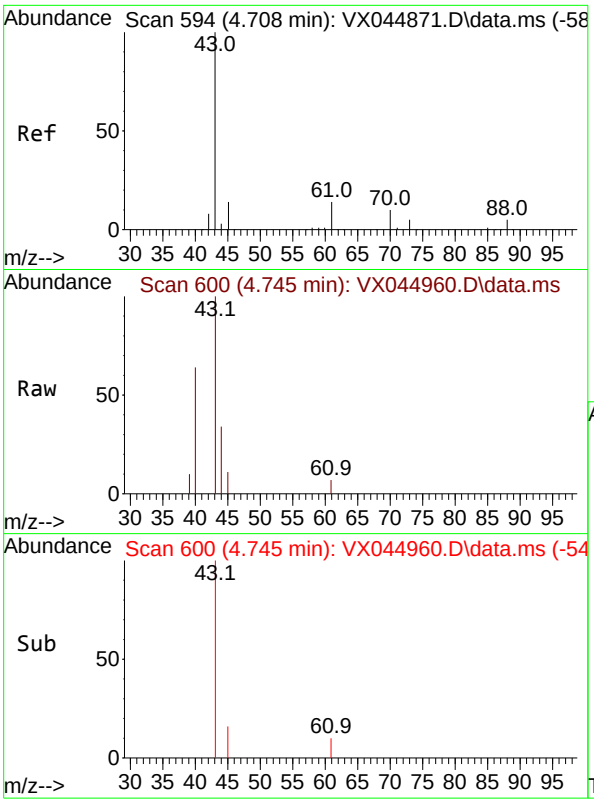


#36
1,1-Dichloropropene
Concen: 4.589 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.146 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 75 Resp: 7316

Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.2	51.6#
77	0.0	24.6	37.0#



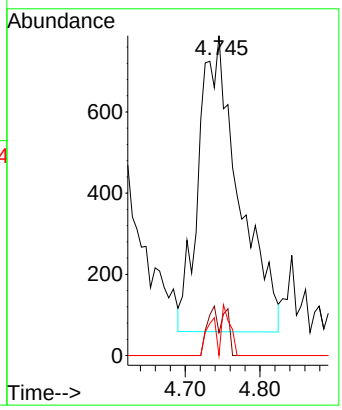


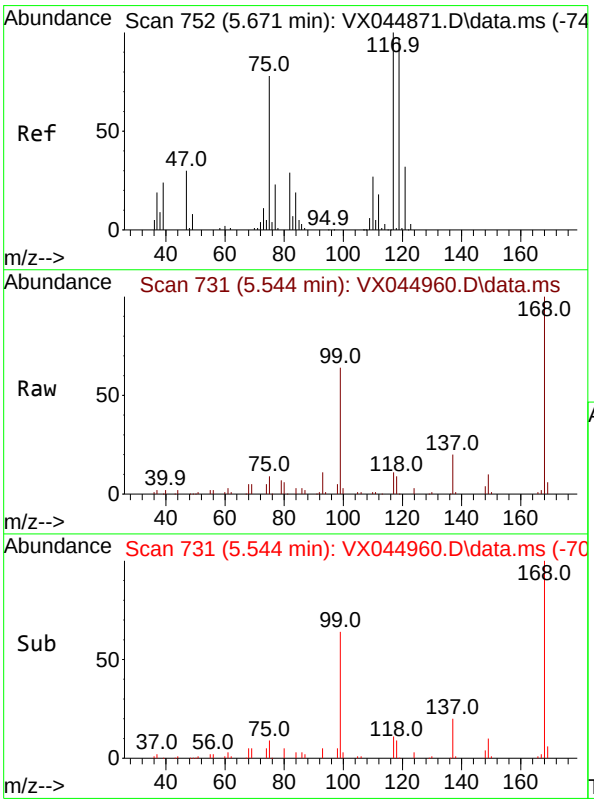
#37
Ethyl Acetate
Concen: 1.533 ug/l
RT: 4.745 min Scan# 6
Delta R.T. 0.037 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 43 Resp: 2719

Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	3.7	8.2	12.2#

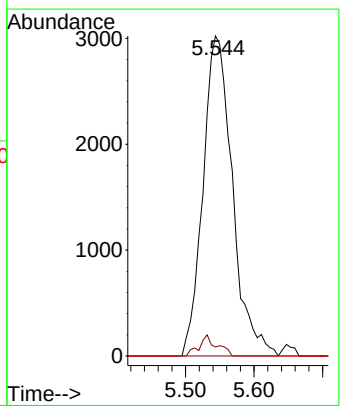


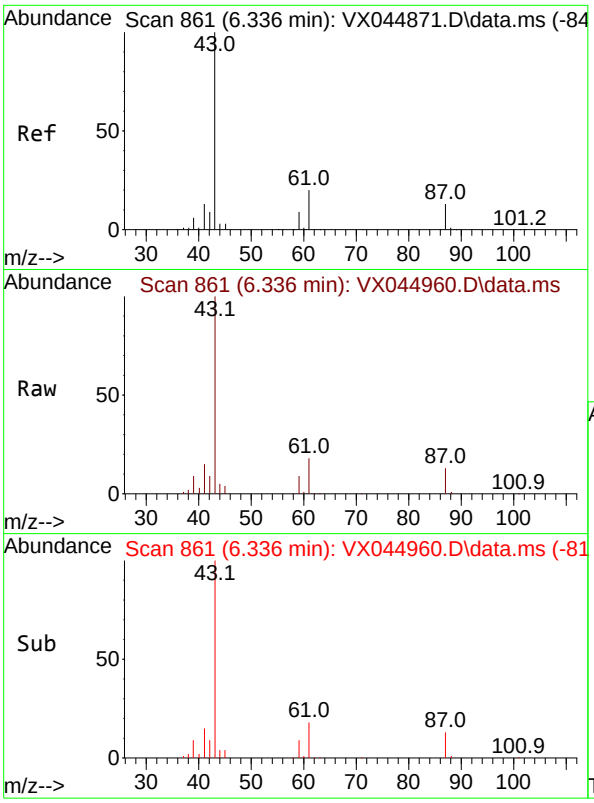


#38
Carbon Tetrachloride
Concen: 5.765 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.128 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion:117 Resp: 9006

Ion	Ratio	Lower	Upper
117	100		
119	2.8	77.5	116.3#
121	0.0	25.6	38.4#



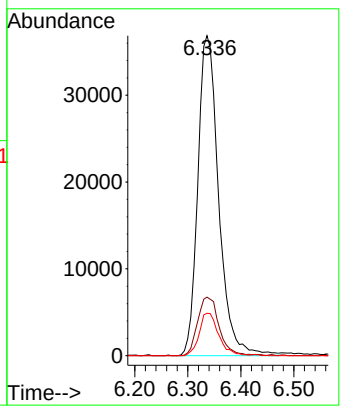


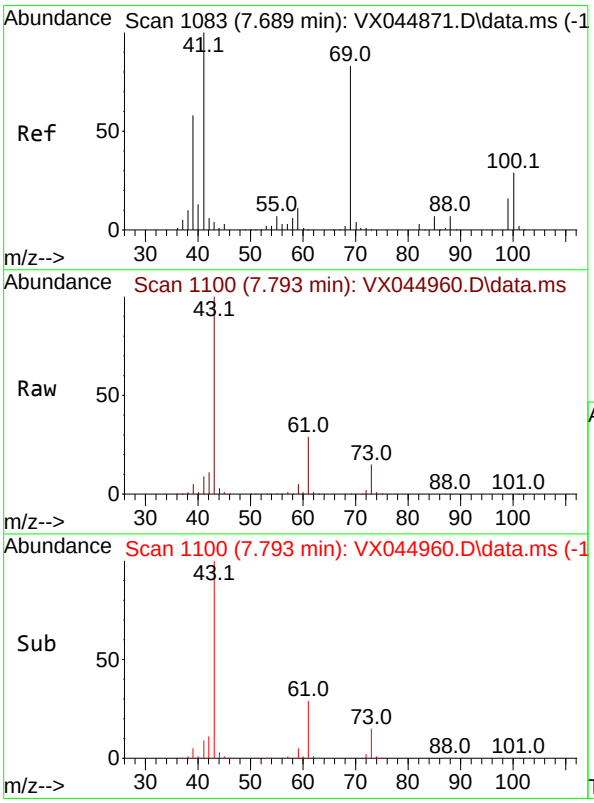
#43
Isopropyl Acetate
Concen: 35.198 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 43 Resp: 100784

Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.8	23.8
87	12.4	10.0	15.0

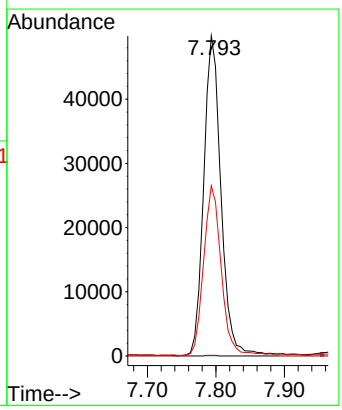


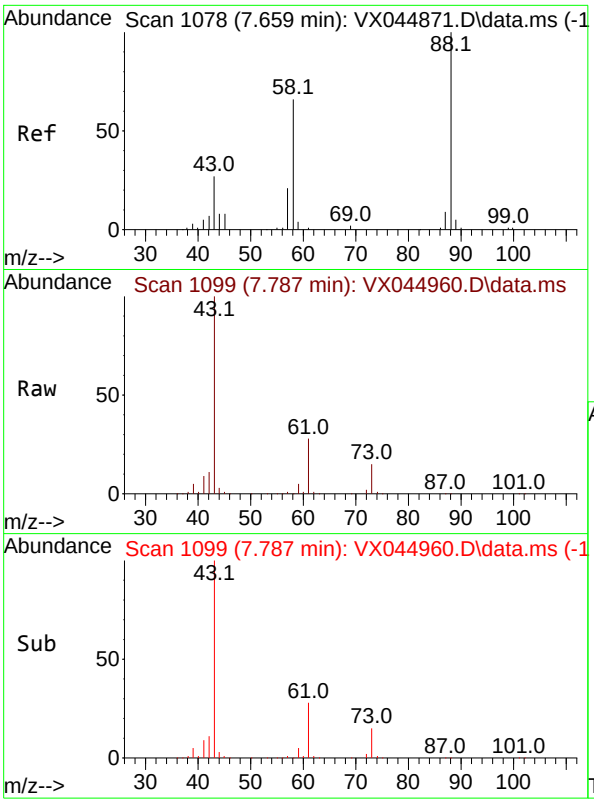


#48
Methyl methacrylate
Concen: 64.944 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 41 Resp: 87680

Ion	Ratio	Lower	Upper
41	100		
69	0.1	65.8	98.8#
39	53.8	46.4	69.6



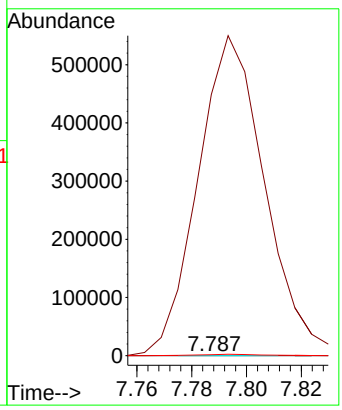


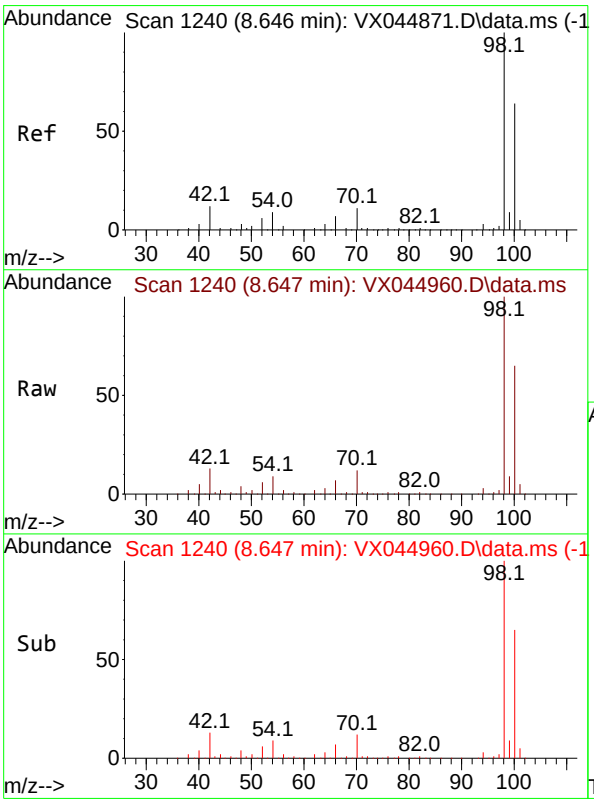
#49
1,4-Dioxane
Concen: 2.417 ug/l
RT: 7.787 min Scan# 1
Delta R.T. 0.128 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 88 Resp: 70

Ion	Ratio	Lower	Upper
88	100		
43	1364122.9	26.6	39.8#
58	5911.4	55.9	83.9#

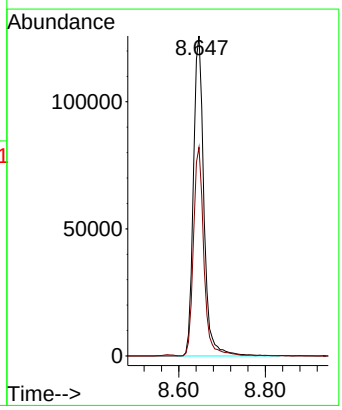


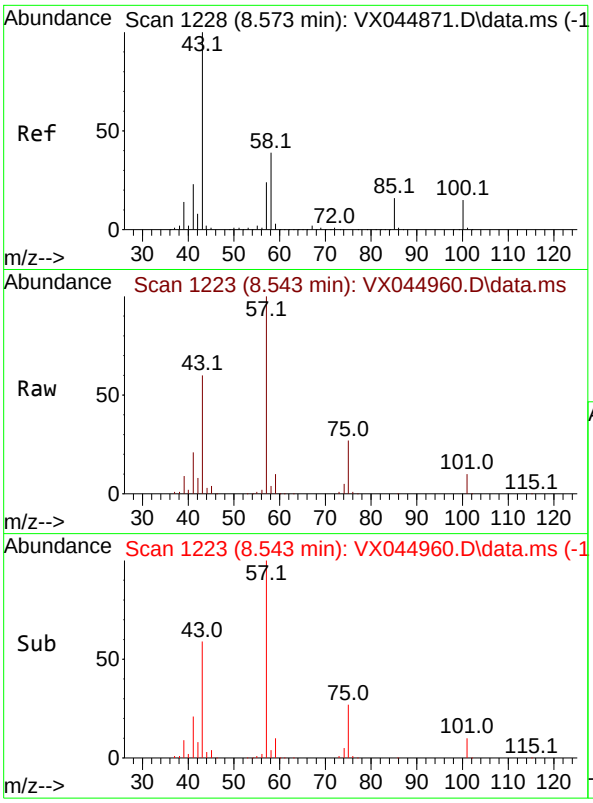


#50
Toluene-d8
Concen: 50.728 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 98 Resp: 211950

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.7	79.1



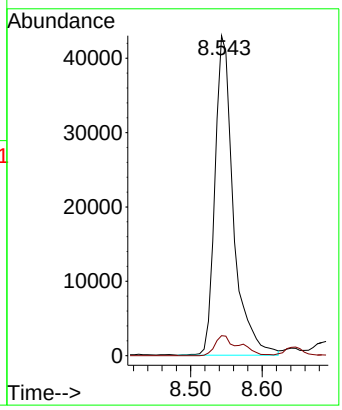


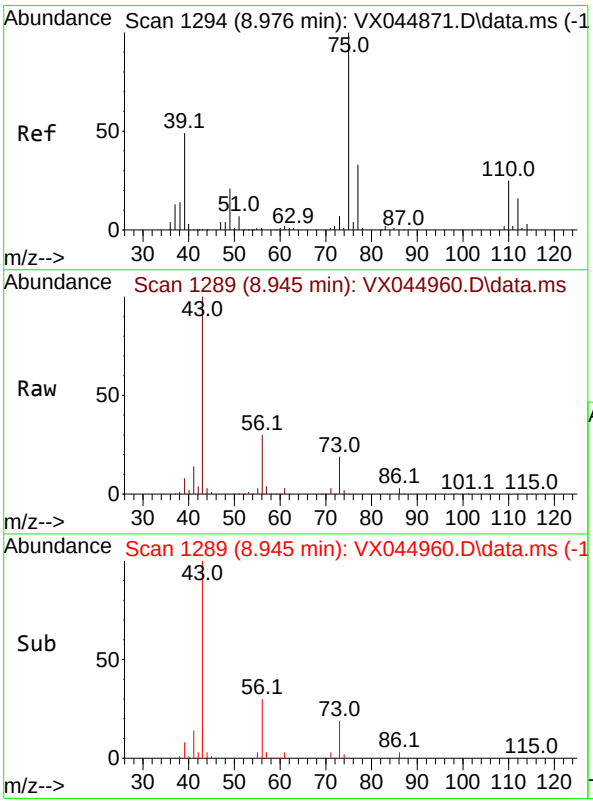
#51
4-Methyl-2-Pentanone
Concen: 44.248 ug/l
RT: 8.543 min Scan# 1
Delta R.T. -0.030 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 43 Resp: 77024

Ion	Ratio	Lower	Upper
43	100		
58	8.2	30.8	46.2#

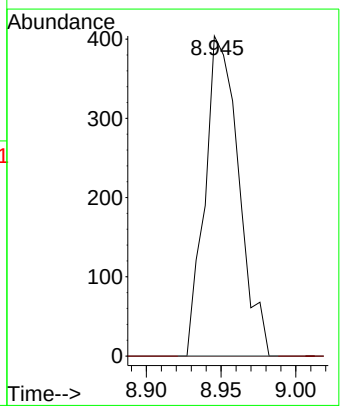


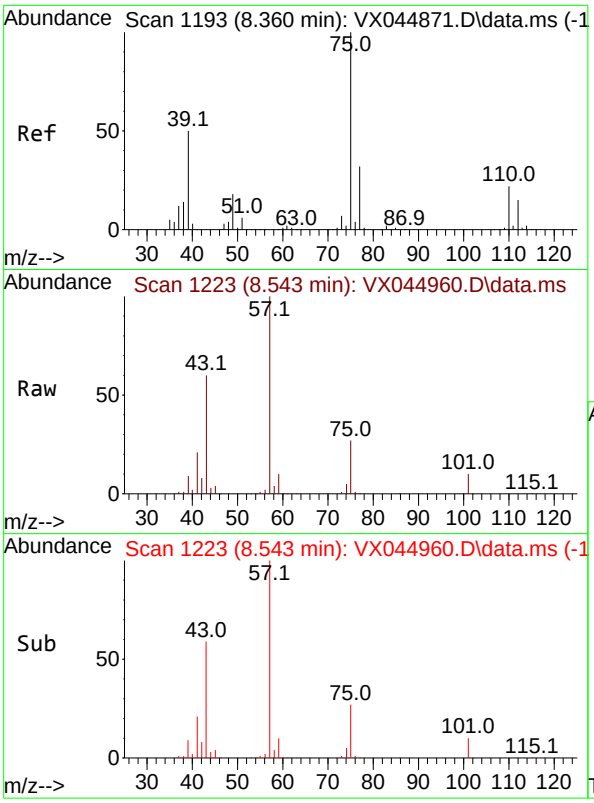


#53
t-1,3-Dichloropropene
Concen: 0.377 ug/l
RT: 8.945 min Scan# 1289
Delta R.T. -0.030 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 75 Resp: 634

Ion	Ratio	Lower	Upper
75	100		
77	0.0	26.0	39.0#



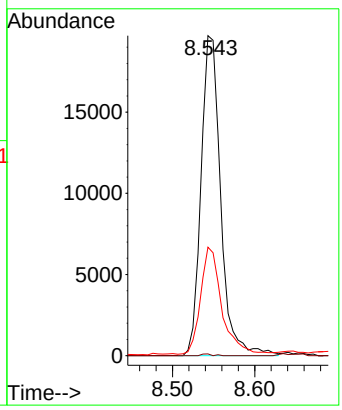


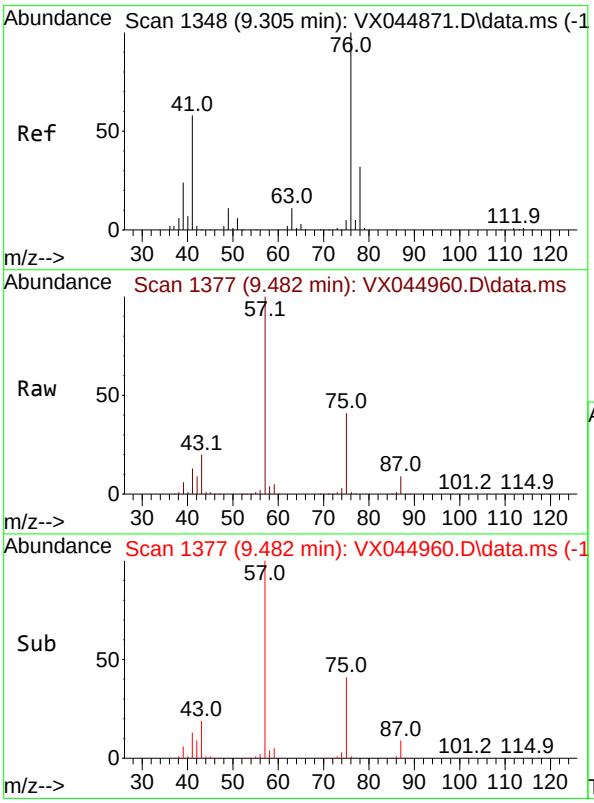
#54
cis-1,3-Dichloropropene
Concen: 17.471 ug/l
RT: 8.543 min Scan# 1
Delta R.T. 0.183 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 75 Resp: 32781

Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.3	37.9#
39	33.5	40.0	60.0#

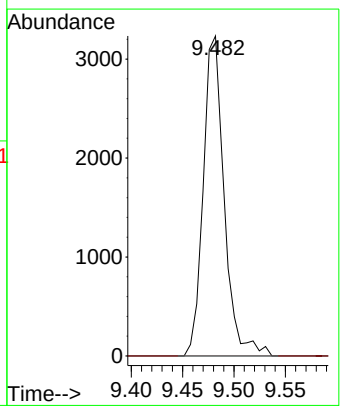


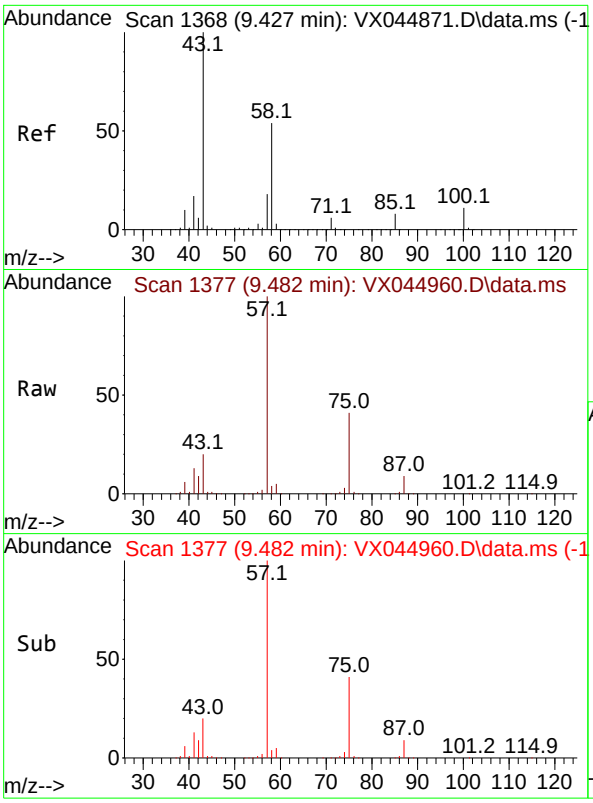


#57
1,3-Dichloropropane
Concen: 2.299 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 76 Resp: 4585

Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.8#



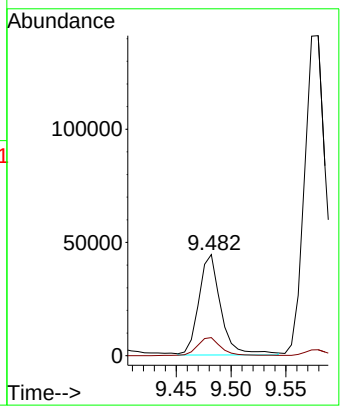


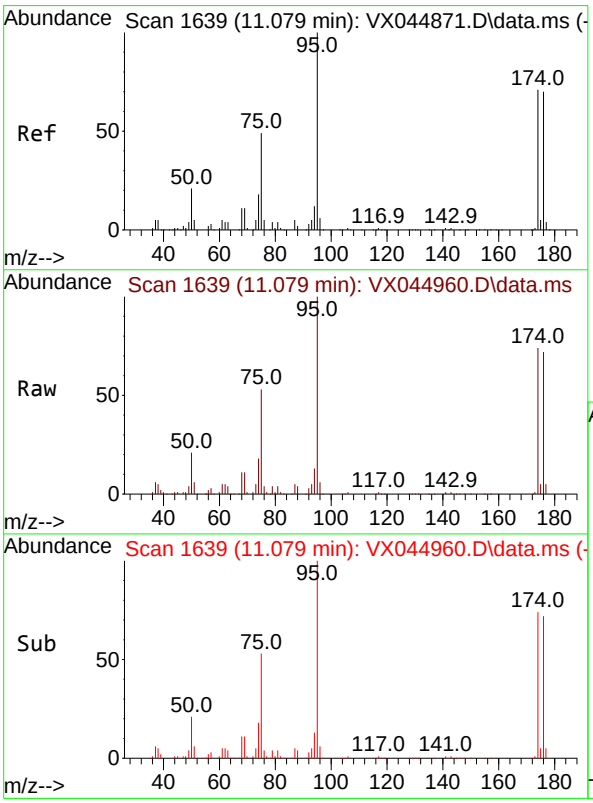
#59
2-Hexanone
Concen: 49.414 ug/l
RT: 9.482 min Scan# 1
Delta R.T. 0.055 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 43 Resp: 61975

Ion	Ratio	Lower	Upper
43	100		
58	19.7	27.5	82.4#

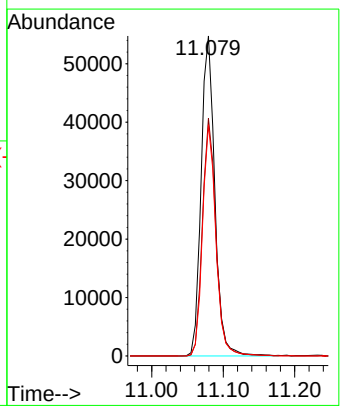


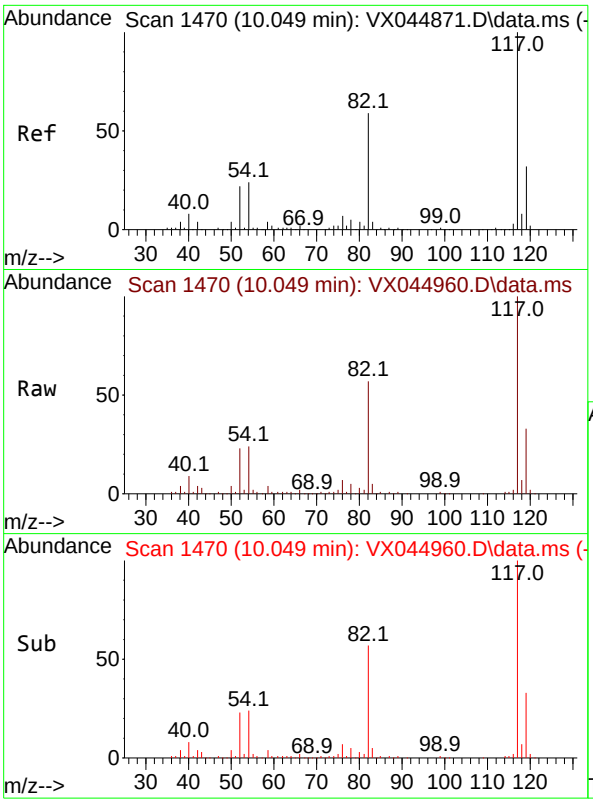


#62
4-Bromofluorobenzene
Concen: 51.666 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 95 Resp: 72775

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	142.6
176	70.6	0.0	141.6



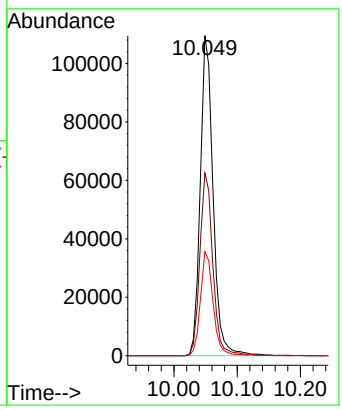


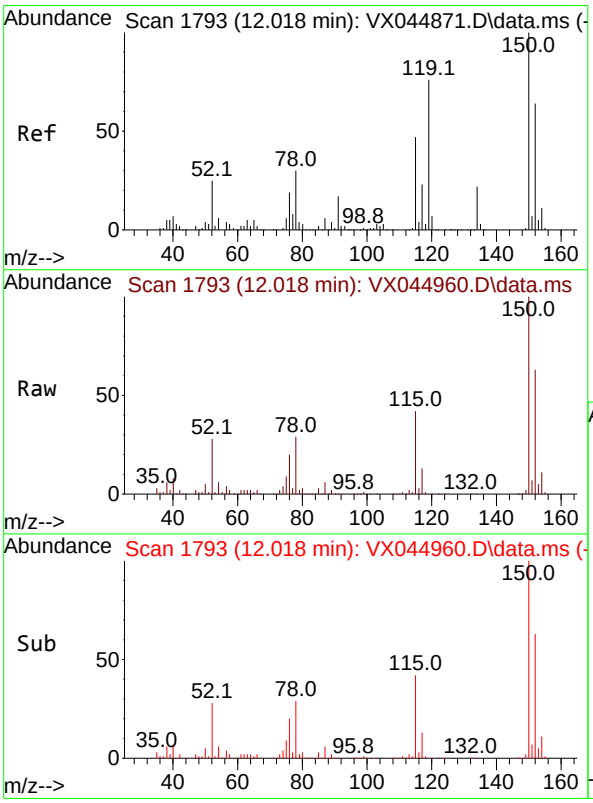
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion:117 Resp: 154821

Ion	Ratio	Lower	Upper
117	100		
82	57.1	47.5	71.3
119	32.5	25.4	38.0

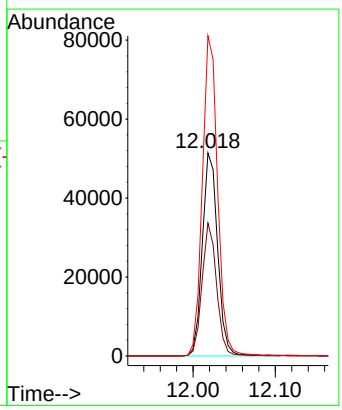


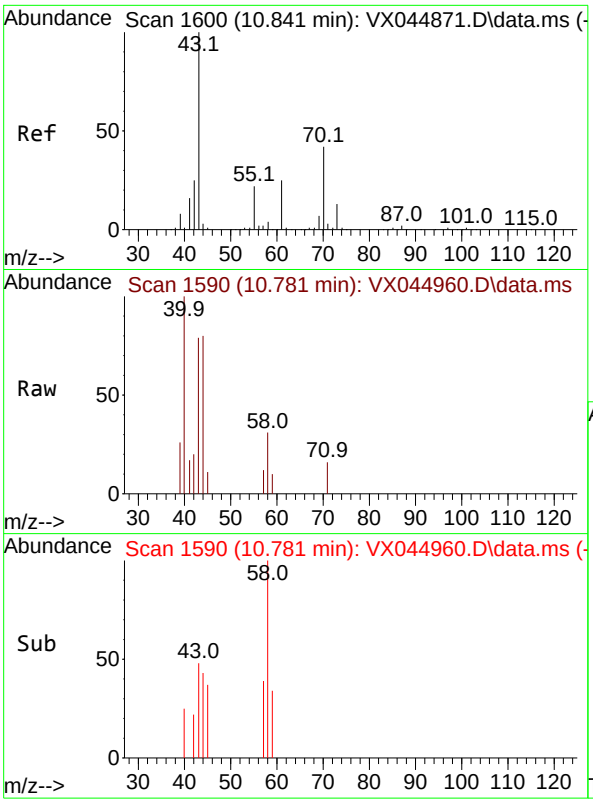


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion:152 Resp: 66540

Ion	Ratio	Lower	Upper
152	100		
115	62.3	43.4	130.1
150	157.5	0.0	350.4



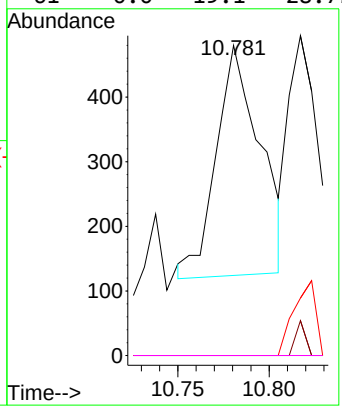


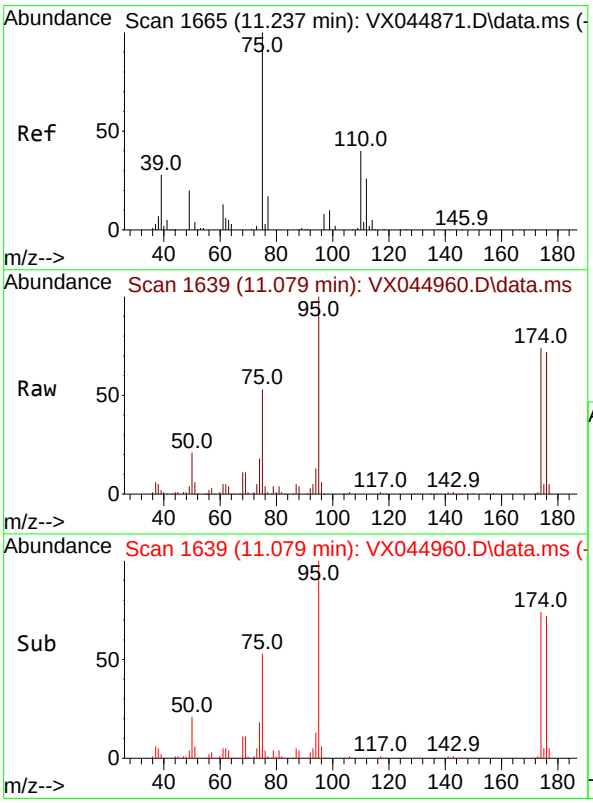
#74
N-amyl acetate
Concen: 0.244 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.061 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 43 Resp: 591

Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.7	50.5#
55	0.0	18.6	27.8#
61	0.0	19.1	28.7#

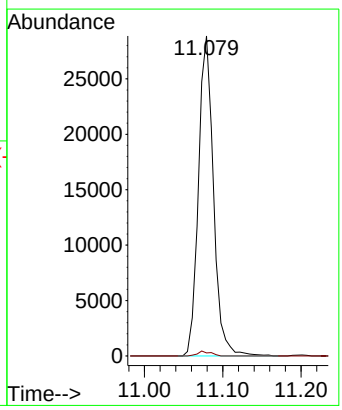


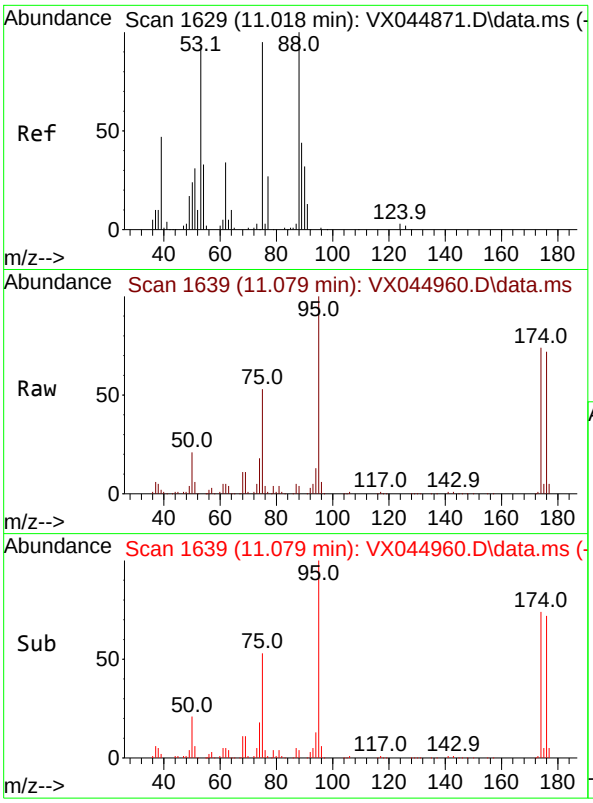


#76
1,2,3-Trichloropropane
Concen: 26.083 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Tgt Ion: 75 Resp: 38480

Ion	Ratio	Lower	Upper
75	100		
77	1.3	21.9	65.7#



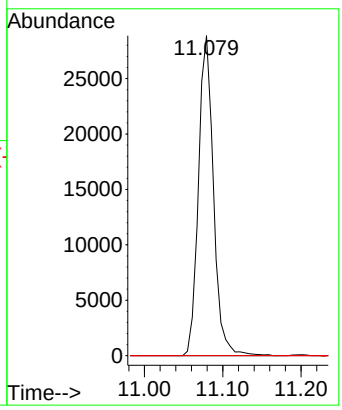


#81
trans-1,4-Dichloro-2-butene
Concen: 67.095 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX044960.D
Acq: 14 Feb 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 75 Resp: 38480

Ion	Ratio	Lower	Upper
75	100		
53	0.0	78.0	117.0#
89	0.0	36.6	54.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	94445	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	171556	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153467	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	76183	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65892	47.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.320%			
35) Dibromofluoromethane	5.379	113	51627	46.286	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.580%			
50) Toluene-d8	8.647	98	188654	44.728	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 89.460%			
62) 4-Bromofluorobenzene	11.079	95	69901	49.160	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	66679	50.338	ug/l	98
3) Chloromethane	1.307	50	79606	49.377	ug/l	100
4) Vinyl Chloride	1.374	62	74720	47.840	ug/l	98
5) Bromomethane	1.599	94	32471	69.475	ug/l	94
6) Chloroethane	1.678	64	44668	87.566	ug/l	99
7) Trichlorofluoromethane	1.880	101	104484	52.899	ug/l	97
8) Diethyl Ether	2.130	74	38138	53.242	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	58245	48.807	ug/l	98
10) Methyl Iodide	2.447	142	81938	52.978	ug/l	97
11) Tert butyl alcohol	2.959	59	81773	318.831	ug/l	98
12) 1,1-Dichloroethene	2.313	96	61347	50.395	ug/l	99
13) Acrolein	2.233	56	73377	277.291	ug/l	99
14) Allyl chloride	2.660	41	115796	52.634	ug/l	97
15) Acrylonitrile	3.056	53	198676	290.127	ug/l	98
16) Acetone	2.373	43	169746	305.420	ug/l	97
17) Carbon Disulfide	2.508	76	158094	47.360	ug/l	100
18) Methyl Acetate	2.697	43	102495	58.441	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	210056	54.234	ug/l	99
20) Methylene Chloride	2.782	84	70630	51.883	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	61493	51.325	ug/l	90
22) Diisopropyl ether	3.757	45	229760	55.202	ug/l	96
23) Vinyl Acetate	3.715	43	961165	283.261	ug/l	99
24) 1,1-Dichloroethane	3.605	63	124800	53.588	ug/l	97
25) 2-Butanone	4.550	43	272772	302.246	ug/l	97
26) 2,2-Dichloropropane	4.471	77	85229	46.148	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	75807	52.676	ug/l	99
28) Bromochloromethane	4.897	49	52159	46.604	ug/l	97
29) Tetrahydrofuran	4.995	42	178501	297.864	ug/l	97
30) Chloroform	5.086	83	122388	54.189	ug/l	99
31) Cyclohexane	5.464	56	104172	48.520	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	101932	53.209	ug/l	99
36) 1,1-Dichloropropene	5.690	75	82797	51.452	ug/l	100
37) Ethyl Acetate	4.708	43	101851	56.903	ug/l	100
38) Carbon Tetrachloride	5.672	117	83568	52.993	ug/l	97
39) Methylcyclohexane	7.379	83	102598	49.315	ug/l	99
40) Benzene	6.031	78	264712	52.680	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	59791	62.407	ug/l		97
42) 1,2-Dichloroethane	6.080	62	91650	57.228	ug/l		98
43) Isopropyl Acetate	6.336	43	166844	57.723	ug/l		98
44) Trichloroethene	7.123	130	61670	53.693	ug/l		98
45) 1,2-Dichloropropane	7.427	63	68342	54.668	ug/l		98
46) Dibromomethane	7.580	93	48498	55.940	ug/l		100
47) Bromodichloromethane	7.818	83	96049	57.216	ug/l		98
48) Methyl methacrylate	7.690	41	82197	60.311	ug/l		97
49) 1,4-Dioxane	7.653	88	37326	1276.524	ug/l		98
51) 4-Methyl-2-Pentanone	8.567	43	543106	309.071	ug/l		100
52) Toluene	8.714	92	159226	53.206	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	94505	55.632	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	103618	54.707	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	64087	55.708	ug/l		98
56) Ethyl methacrylate	9.116	69	106133	57.122	ug/l		96
57) 1,3-Dichloropropane	9.305	76	110929	55.110	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	246733	270.450	ug/l		100
59) 2-Hexanone	9.427	43	410543	324.260	ug/l		97
60) Dibromochloromethane	9.519	129	70306	57.145	ug/l		99
61) 1,2-Dibromoethane	9.604	107	65513	56.187	ug/l		100
64) Tetrachloroethene	9.269	164	49133	50.766	ug/l		98
65) Chlorobenzene	10.073	112	175110	53.124	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	57633	54.322	ug/l		100
67) Ethyl Benzene	10.189	91	308662	53.064	ug/l		99
68) m/p-Xylenes	10.299	106	227422	105.988	ug/l		98
69) o-Xylene	10.640	106	112850	52.414	ug/l		98
70) Styrene	10.652	104	191380	55.172	ug/l		98
71) Bromoform	10.799	173	46331	58.514	ug/l	#	98
73) Isopropylbenzene	10.957	105	289482	47.192	ug/l		100
74) N-amyl acetate	10.841	43	147969	53.307	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	103911	49.296	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	111926	66.264	ug/l		84
77) Bromobenzene	11.195	156	69109	49.693	ug/l		97
78) n-propylbenzene	11.299	91	347506	49.081	ug/l		100
79) 2-Chlorotoluene	11.360	91	207868	47.769	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	241259	48.466	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	29650	45.155	ug/l		90
82) 4-Chlorotoluene	11.451	91	236705	49.168	ug/l		100
83) tert-Butylbenzene	11.713	119	245140	48.679	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	245839	50.037	ug/l		99
85) sec-Butylbenzene	11.890	105	308918	49.539	ug/l		99
86) p-Isopropyltoluene	12.006	119	254468	50.744	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	128049	50.069	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	128451	49.676	ug/l		99
89) n-Butylbenzene	12.329	91	245173	55.263	ug/l		99
90) Hexachloroethane	12.536	117	44714	47.620	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	127878	50.877	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21727	56.476	ug/l		95
93) 1,2,4-Trichlorobenzene	13.585	180	81980	53.901	ug/l		100
94) Hexachlorobutadiene	13.719	225	31681	52.471	ug/l		98
95) Naphthalene	13.774	128	293624	53.406	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	80402	52.463	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

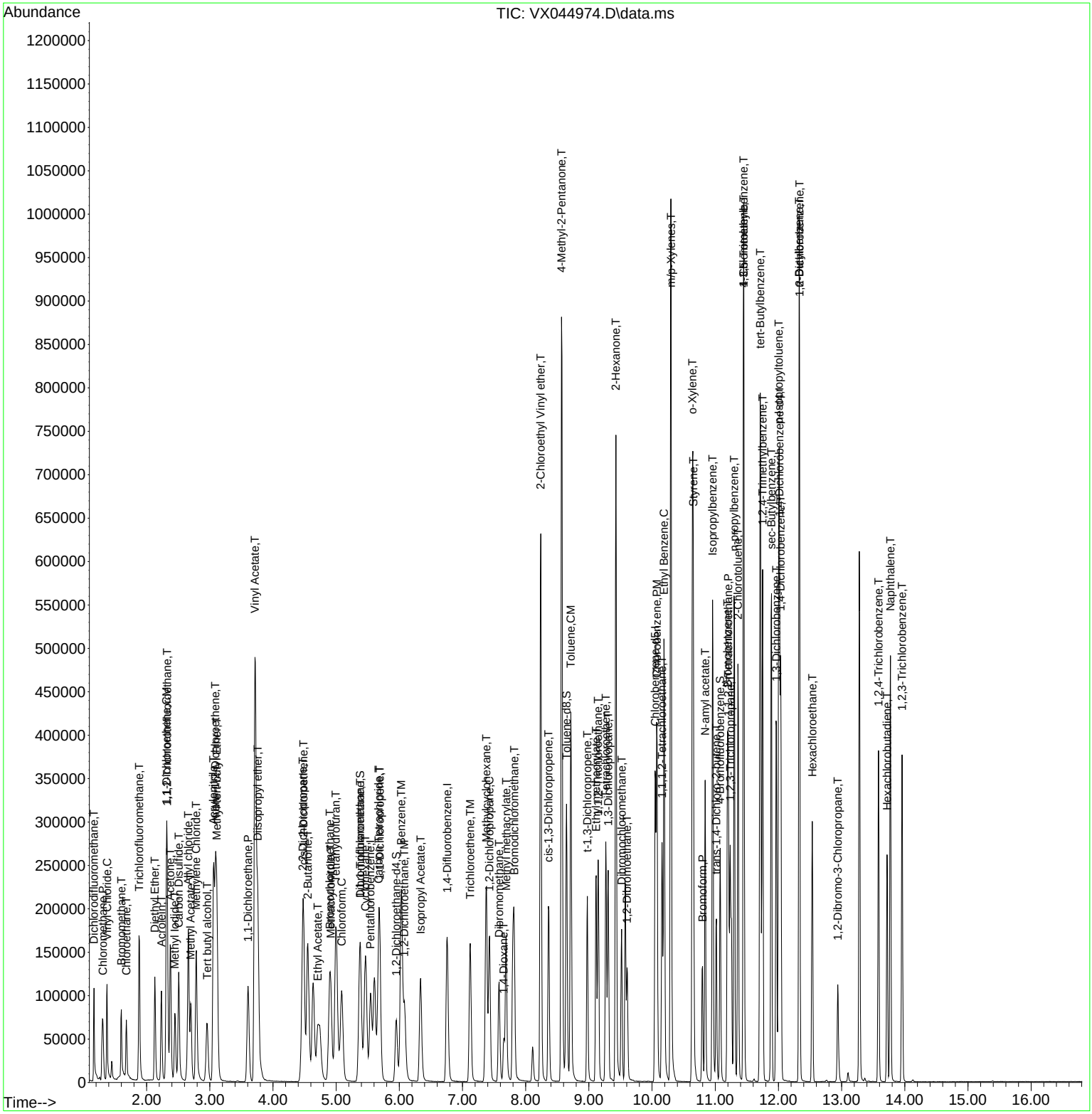
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

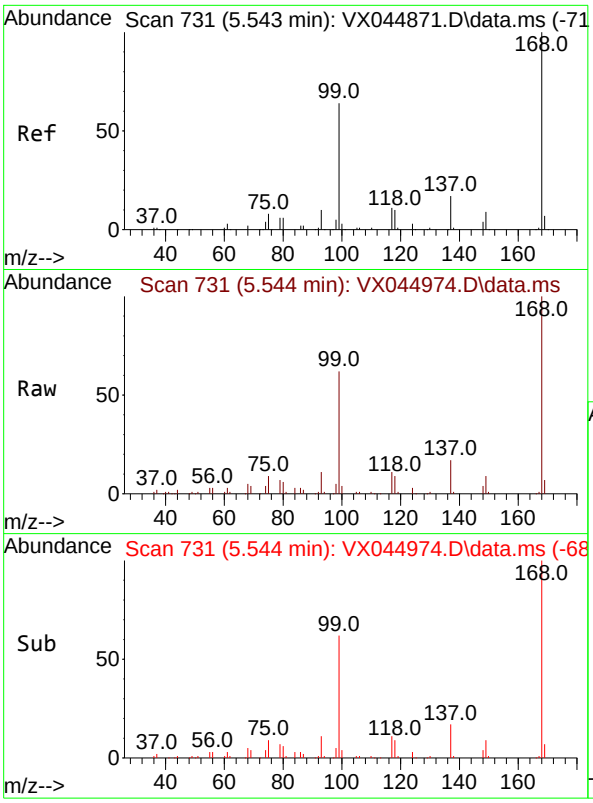
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
Data File : VX044974.D
Acq On : 14 Feb 2025 20:06
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 14 22:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration



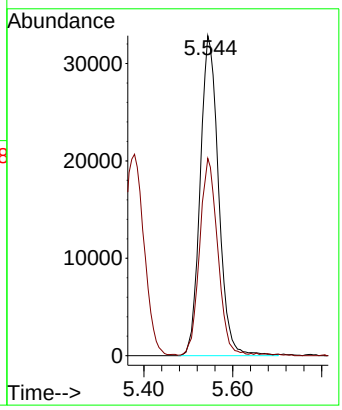


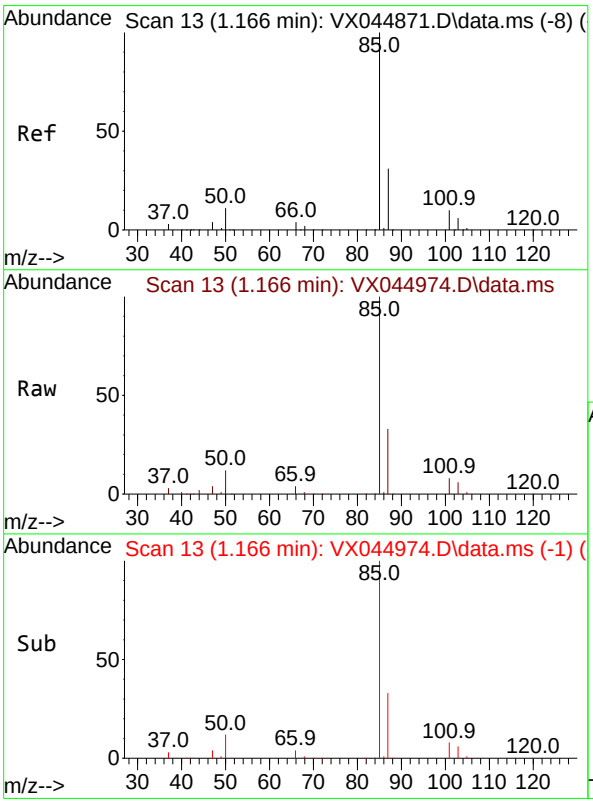
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. 0.001 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 94445

Ion	Ratio	Lower	Upper
168	100		
99	61.5	51.2	76.8

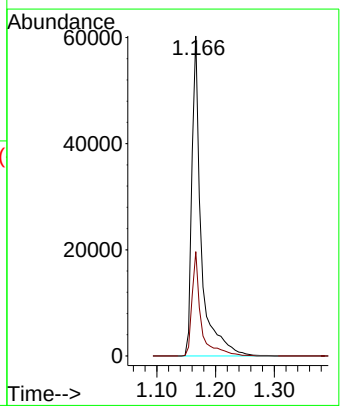


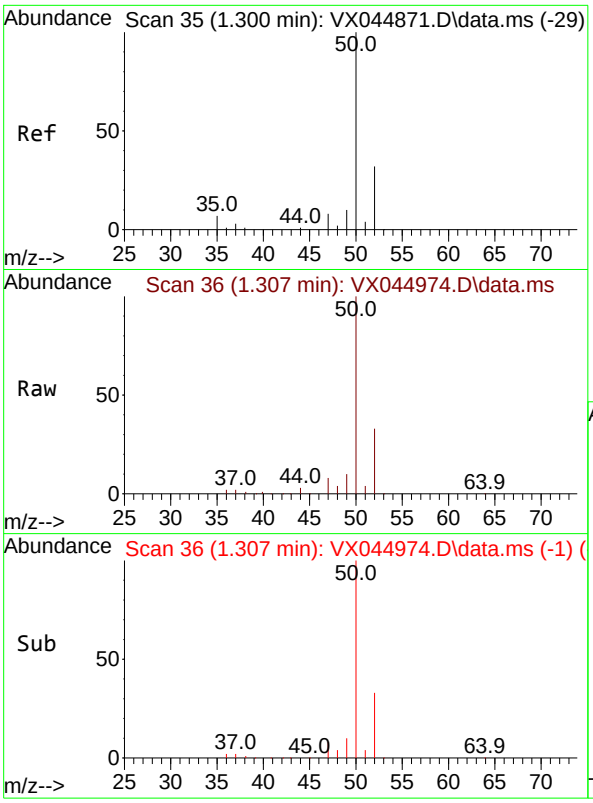


#2
Dichlorodifluoromethane
Concen: 50.338 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 85 Resp: 66679

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.8	47.3



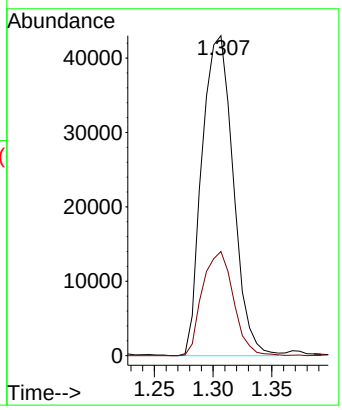


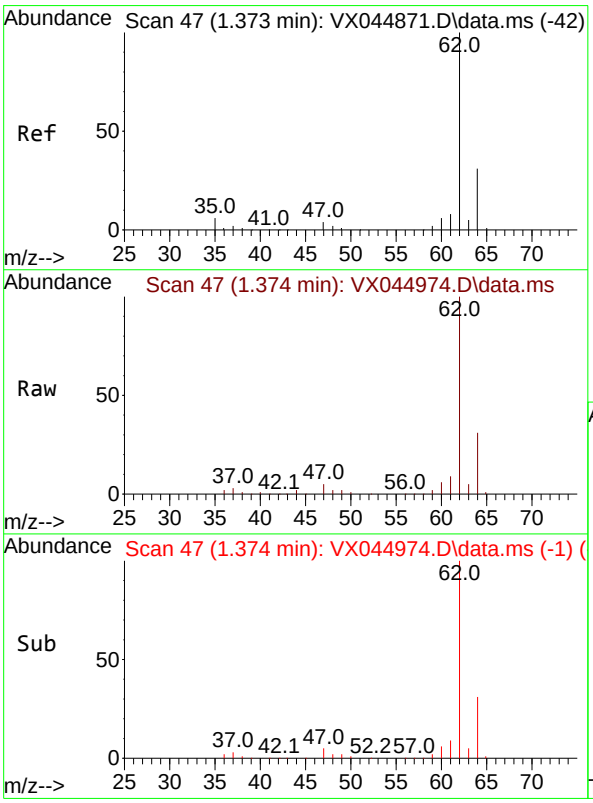
#3
Chloromethane
Concen: 49.377 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 79606

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.9	38.9

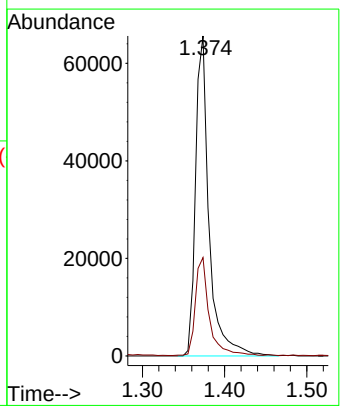


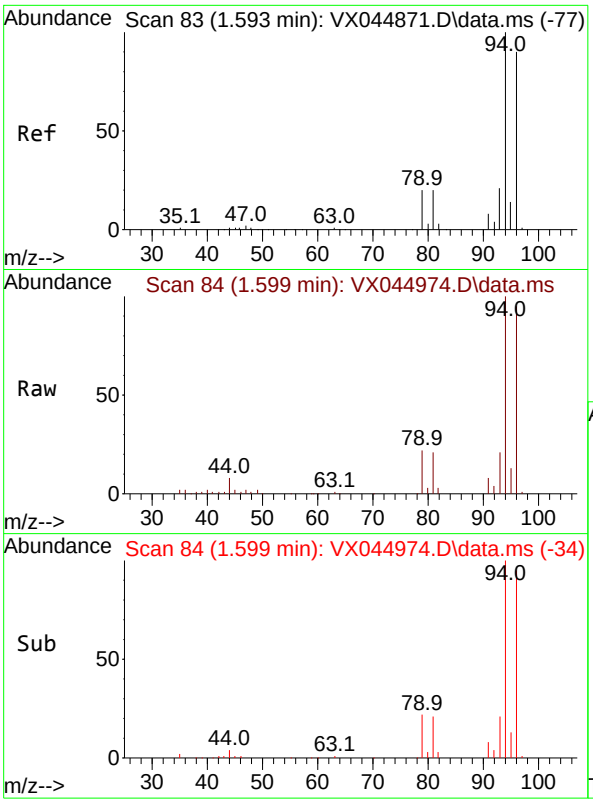


#4
Vinyl Chloride
Concen: 47.840 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 62 Resp: 74720

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.4	38.0



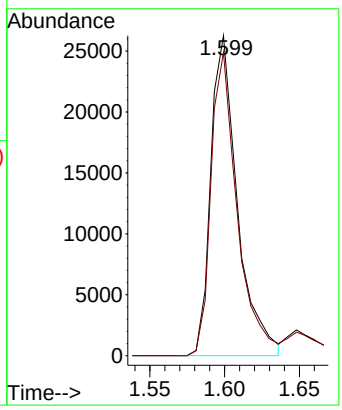


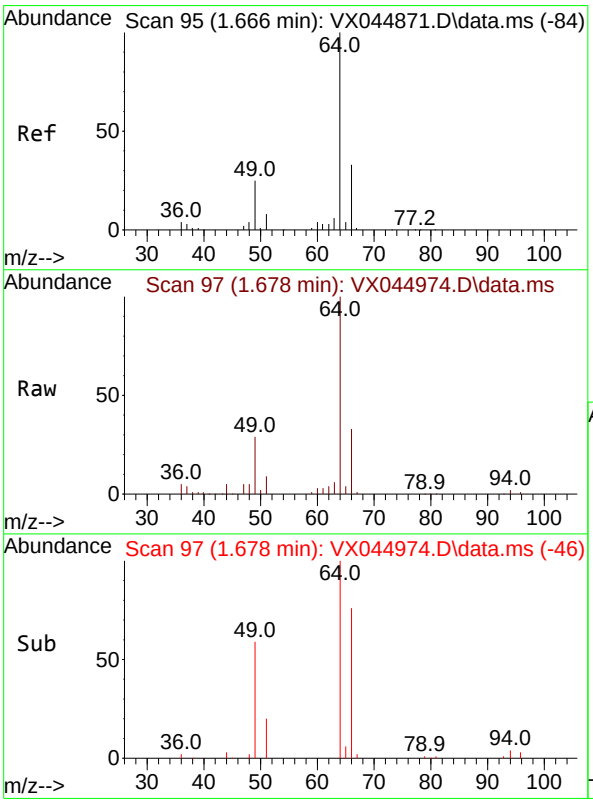
#5
Bromomethane
Concen: 69.475 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 32471

Ion	Ratio	Lower	Upper
94	100		
96	94.8	71.6	107.4

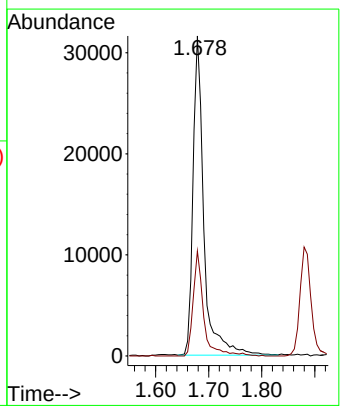


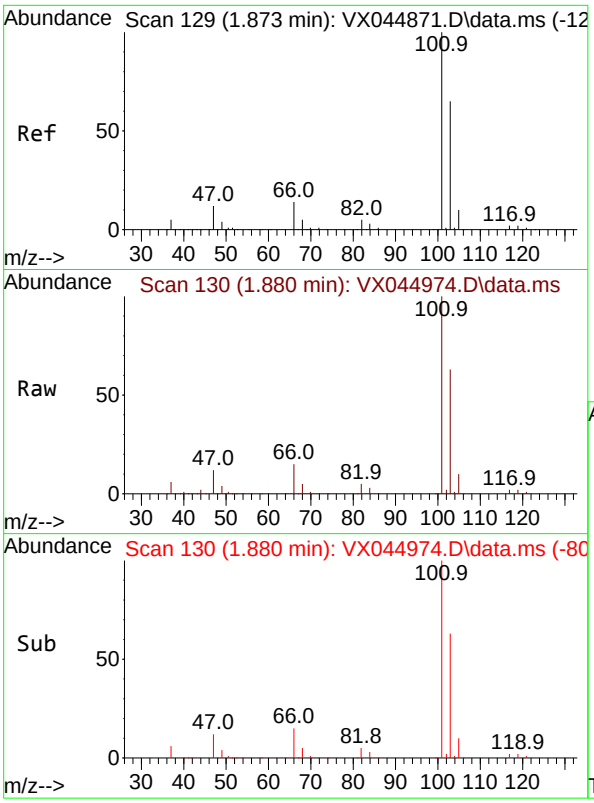


#6
Chloroethane
Concen: 87.566 ug/l
RT: 1.678 min Scan# 97
Delta R.T. 0.012 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 64 Resp: 44668

Ion	Ratio	Lower	Upper
64	100		
66	32.9	25.9	38.9



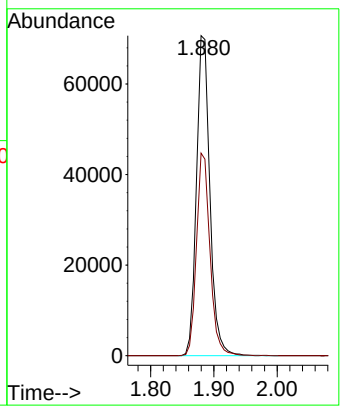


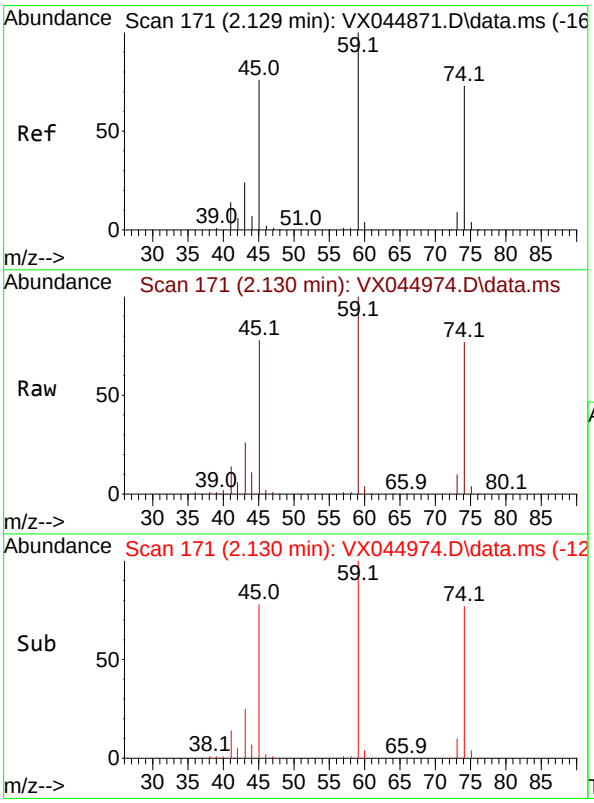
#7
Trichlorofluoromethane
Concen: 52.899 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.007 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 104484

Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.4	78.6

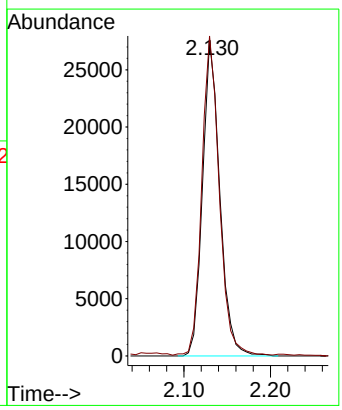


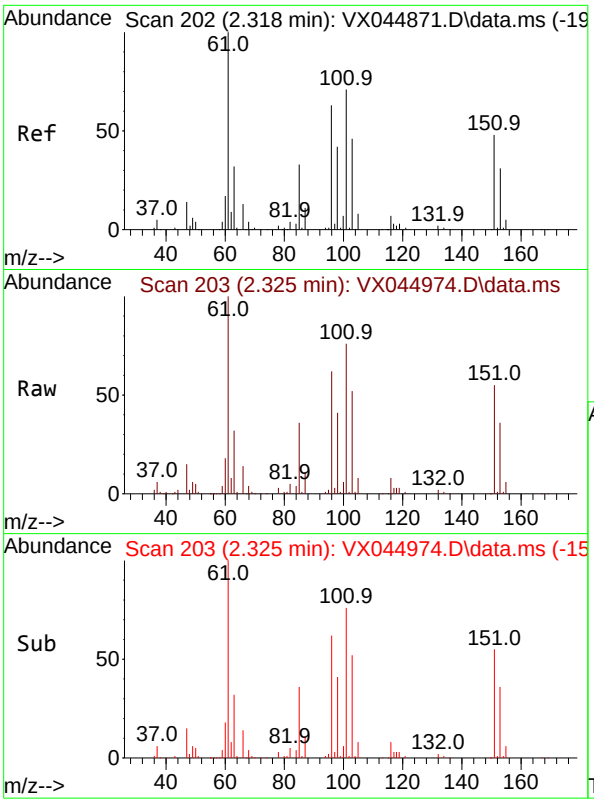


#8
Diethyl Ether
Concen: 53.242 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.001 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 74 Resp: 38138

Ion	Ratio	Lower	Upper
74	100		
45	102.0	51.1	153.4



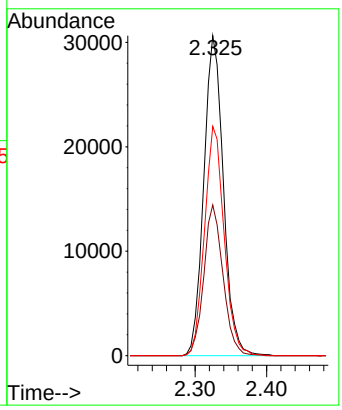


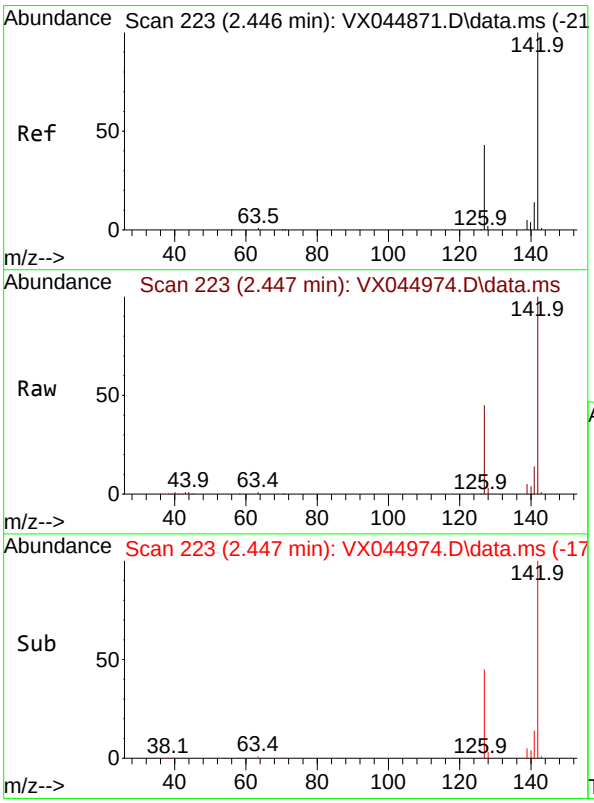
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.807 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 58245

Ion	Ratio	Lower	Upper
101	100		
85	46.3	35.7	53.5
151	71.9	56.0	84.0

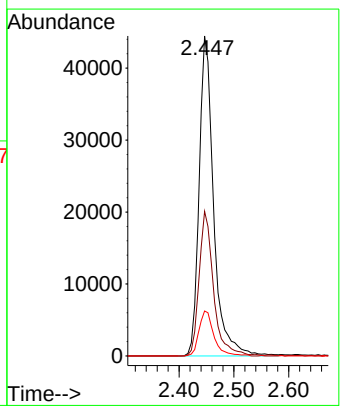


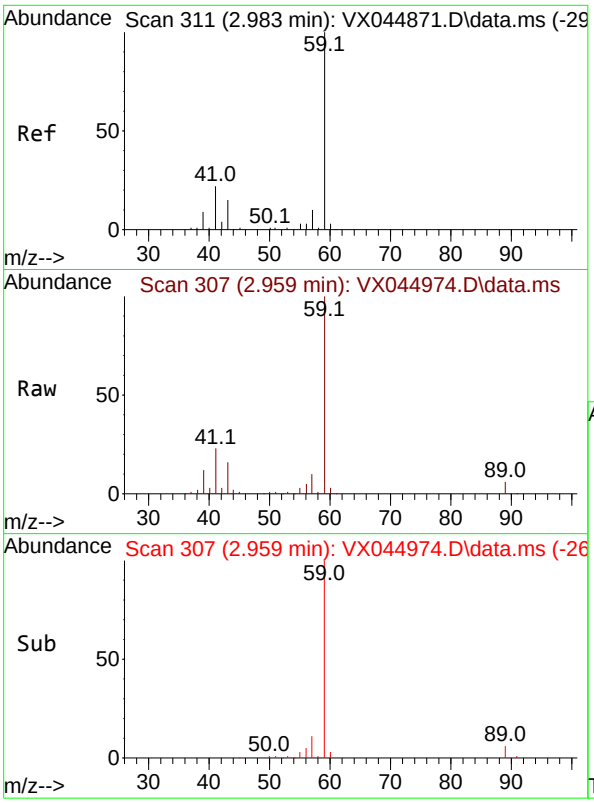


#10
Methyl Iodide
Concen: 52.978 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:142 Resp: 81938

Ion	Ratio	Lower	Upper
142	100		
127	45.0	34.3	51.5
141	14.5	11.4	17.2



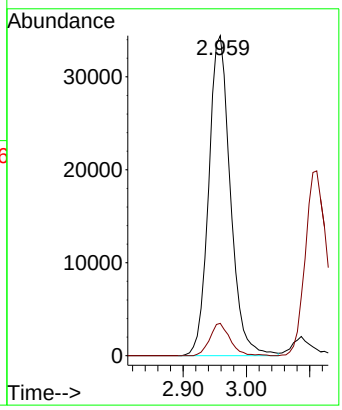


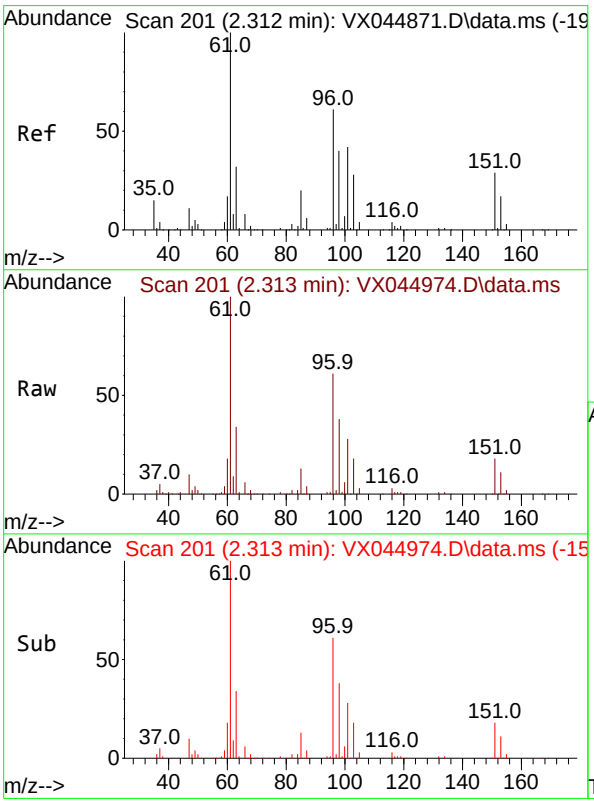
#11
Tert butyl alcohol
Concen: 318.831 ug/l
RT: 2.959 min Scan# 3
Delta R.T. -0.024 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 81773

Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.1	12.1

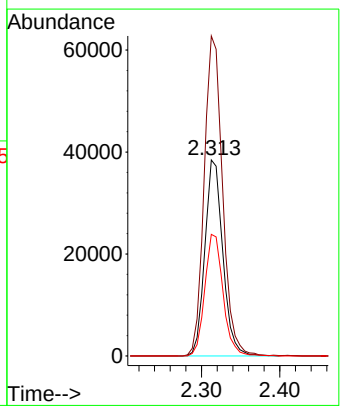


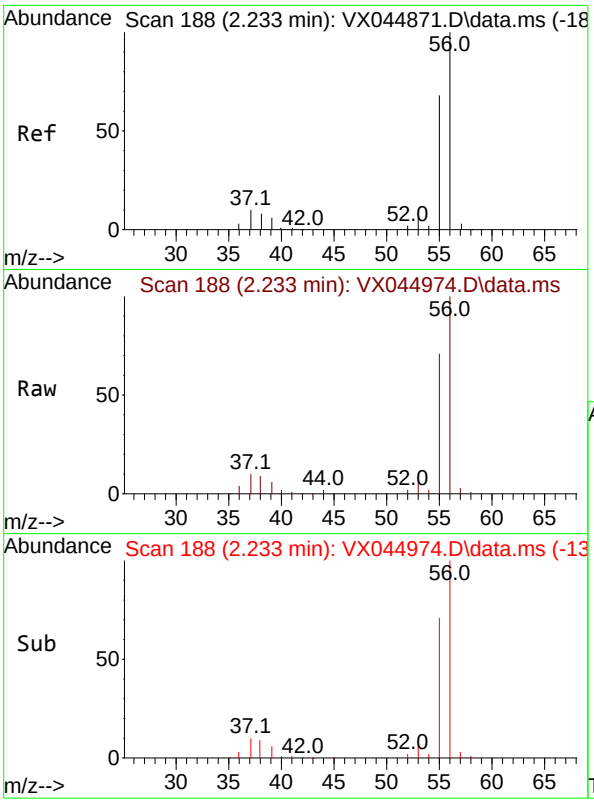


#12
1,1-Dichloroethene
Concen: 50.395 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 96 Resp: 61347

Ion	Ratio	Lower	Upper
96	100		
61	163.3	130.2	195.4
98	62.1	52.2	78.4



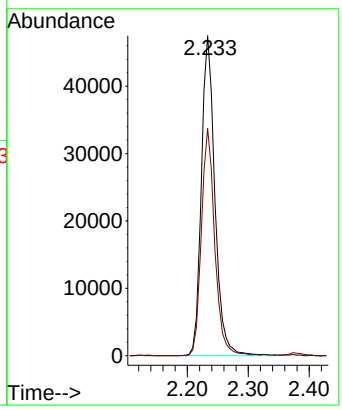


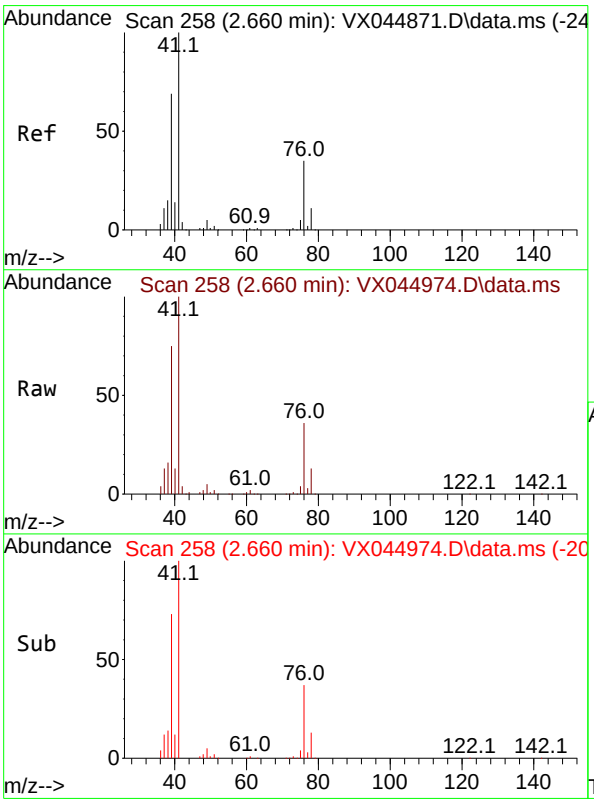
#13
Acrolein
Concen: 277.291 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 73377

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.7	83.5

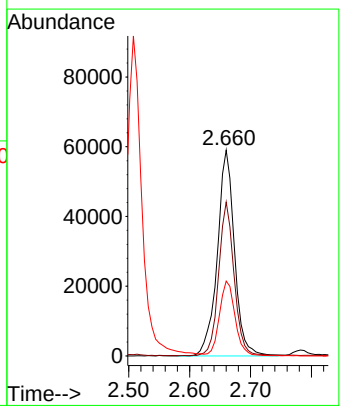


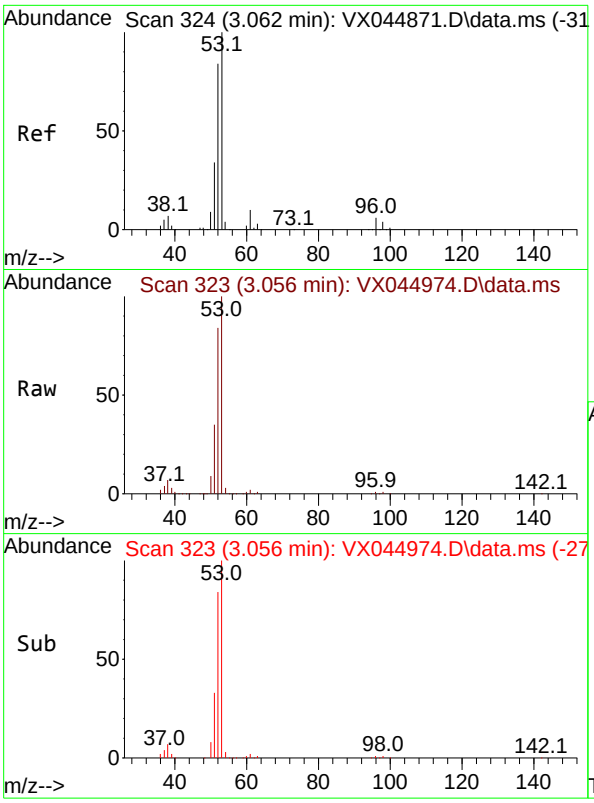


#14
Allyl chloride
Concen: 52.634 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 41 Resp: 115796

Ion	Ratio	Lower	Upper
41	100		
39	66.7	51.4	77.2
76	32.8	27.0	40.4



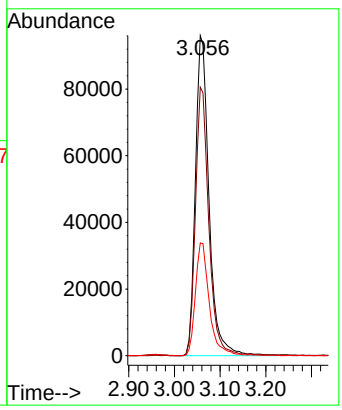


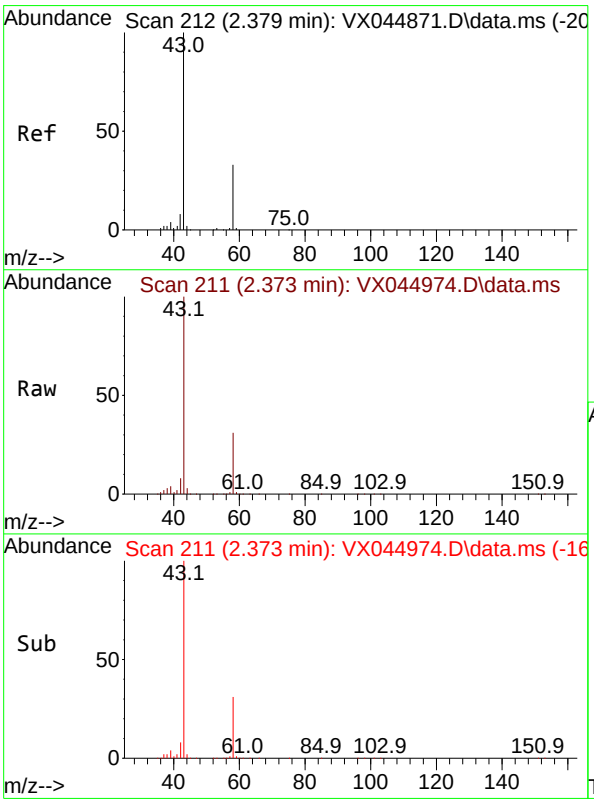
#15
Acrylonitrile
Concen: 290.127 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 198676

Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.0	97.6
51	36.2	28.0	42.0

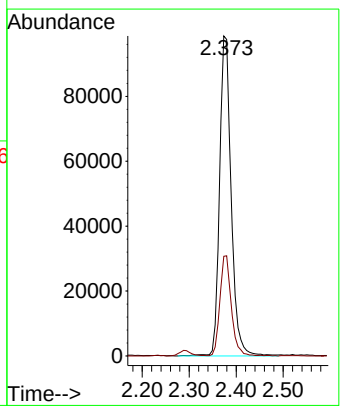


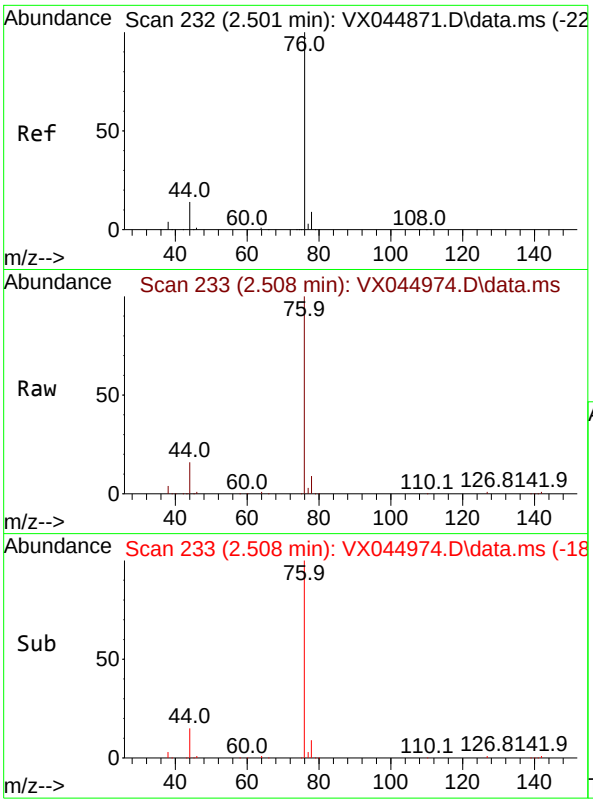


#16
Acetone
Concen: 305.420 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 169746

Ion	Ratio	Lower	Upper
43	100		
58	31.2	26.5	39.7



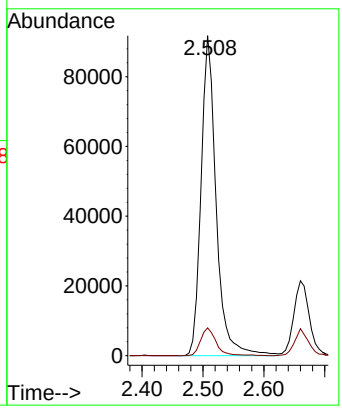


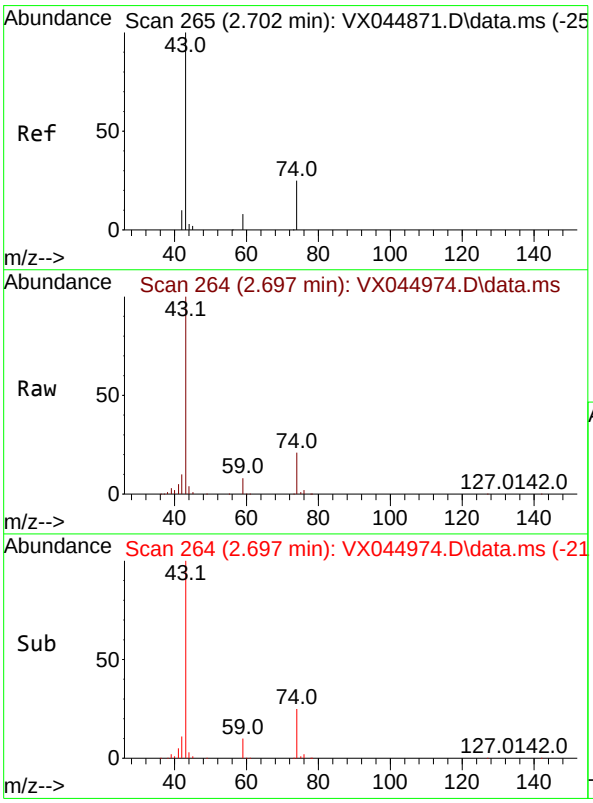
#17
Carbon Disulfide
Concen: 47.360 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 158094

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

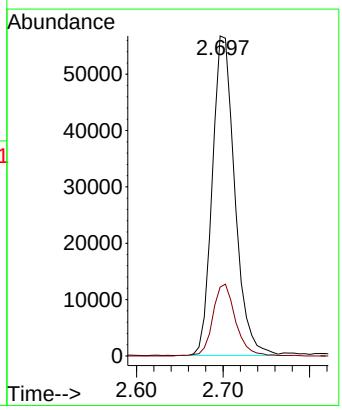


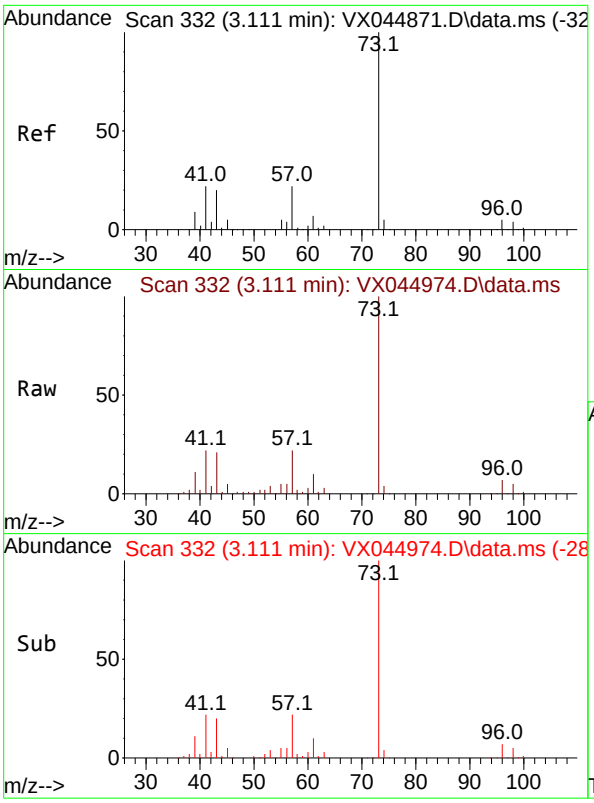


#18
Methyl Acetate
Concen: 58.441 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 102495

Ion	Ratio	Lower	Upper
43	100		
74	22.7	18.9	28.3



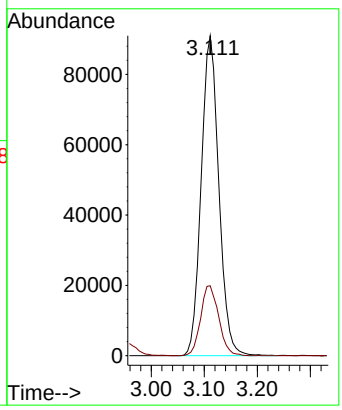


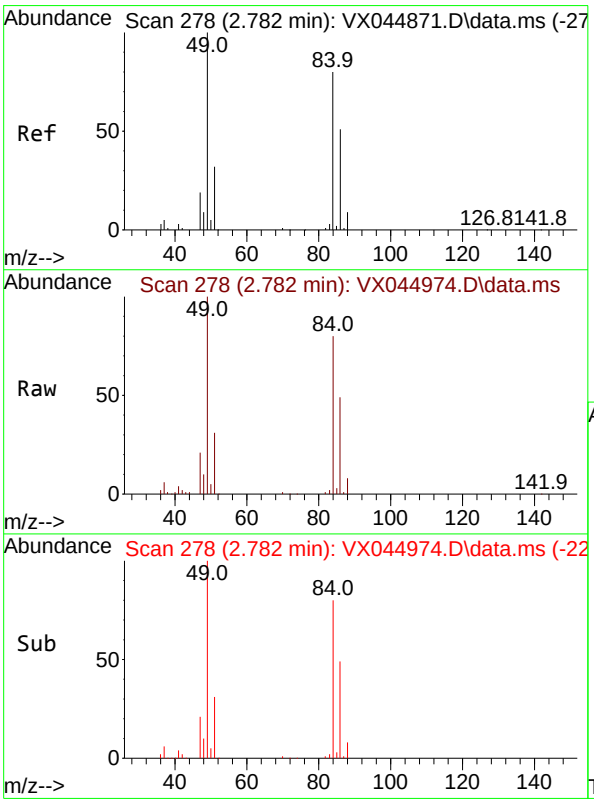
#19
Methyl tert-butyl Ether
Concen: 54.234 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 210056

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.9	26.9

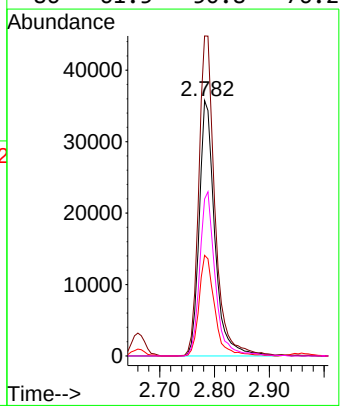


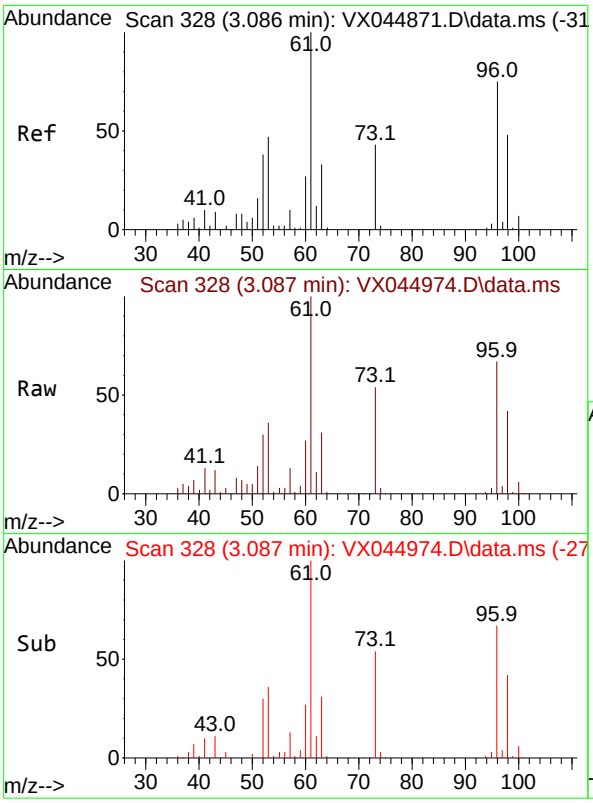


#20
Methylene Chloride
Concen: 51.883 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 84 Resp: 70630

Ion	Ratio	Lower	Upper
84	100		
49	125.3	100.1	150.1
51	39.4	31.7	47.5
86	61.5	50.8	76.2



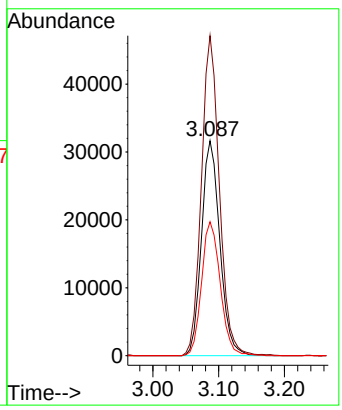


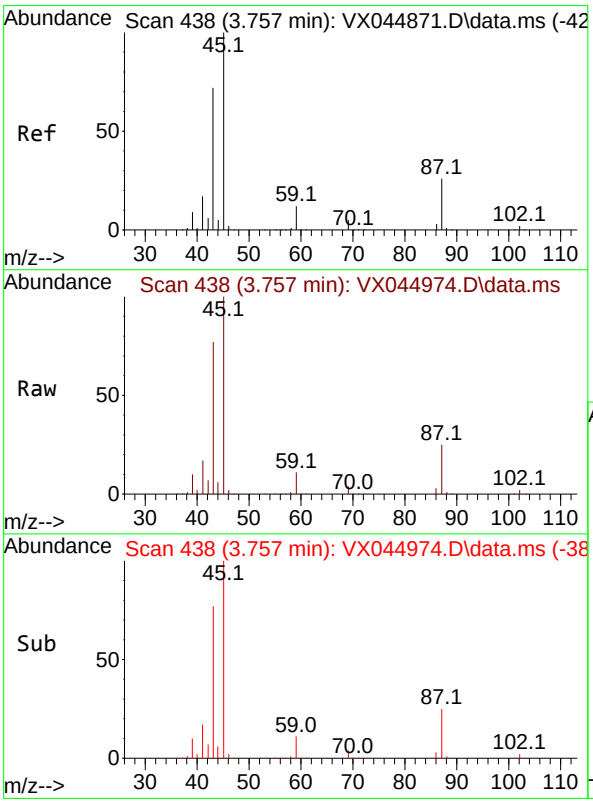
#21
trans-1,2-Dichloroethene
Concen: 51.325 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 61493

Ion	Ratio	Lower	Upper
96	100		
61	149.0	106.0	159.0
98	62.3	50.6	76.0

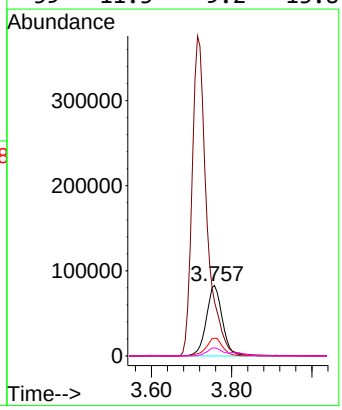


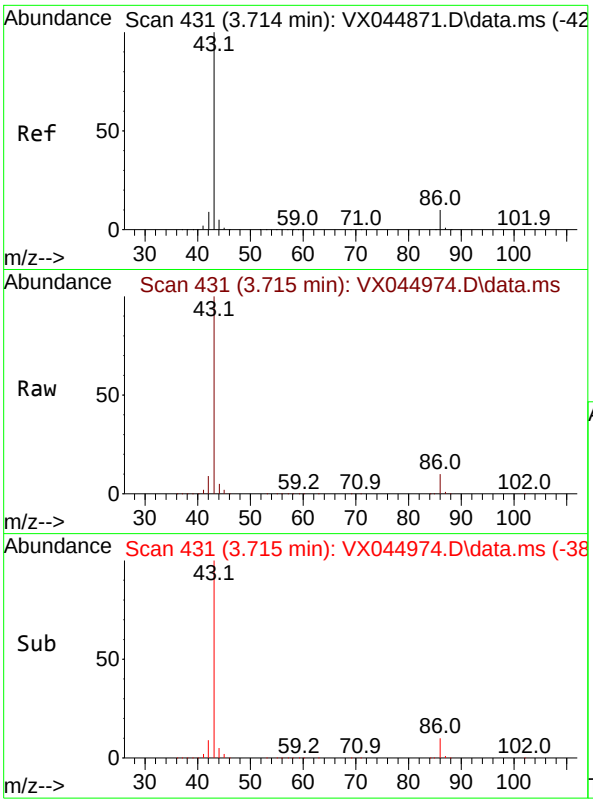


#22
Diisopropyl ether
Concen: 55.202 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 45 Resp: 229760

Ion	Ratio	Lower	Upper
45	100		
43	76.6	58.0	87.0
87	25.1	20.7	31.1
59	11.3	9.2	13.8



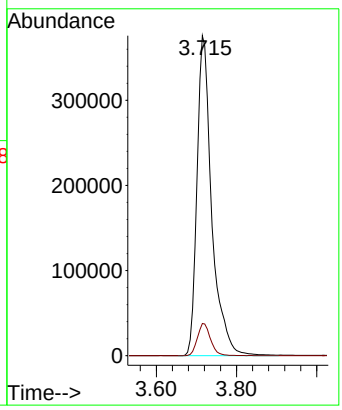


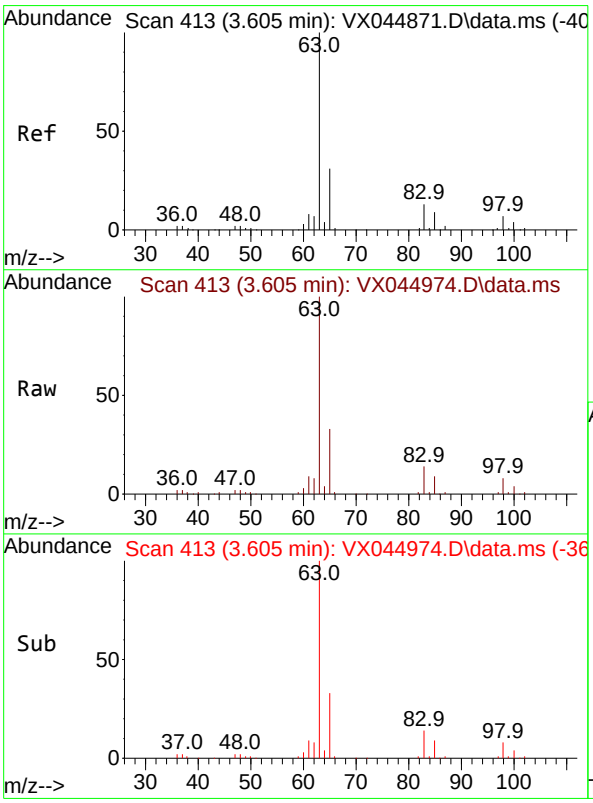
#23
Vinyl Acetate
Concen: 283.261 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 961165

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.3	12.5

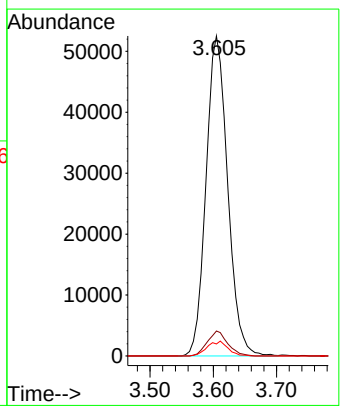


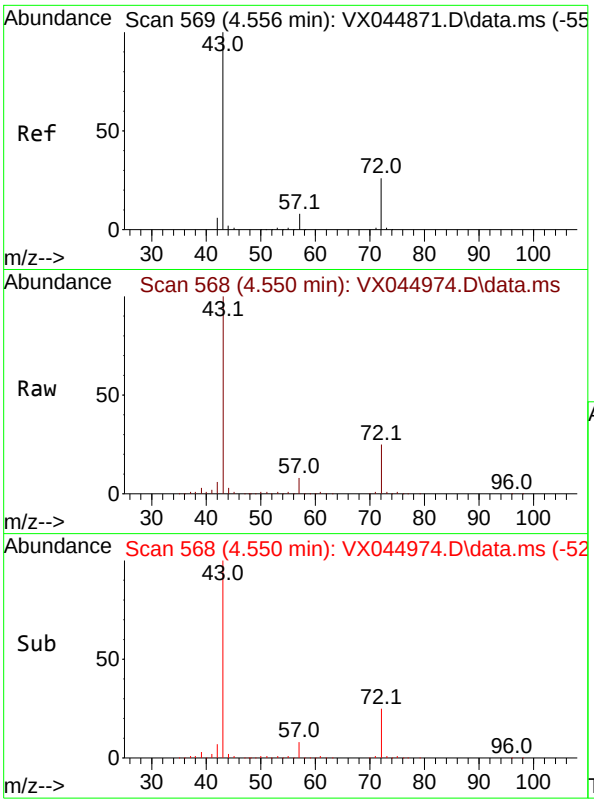


#24
1,1-Dichloroethane
Concen: 53.588 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 63 Resp: 124800

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.3	9.9
100	3.7	2.1	6.5



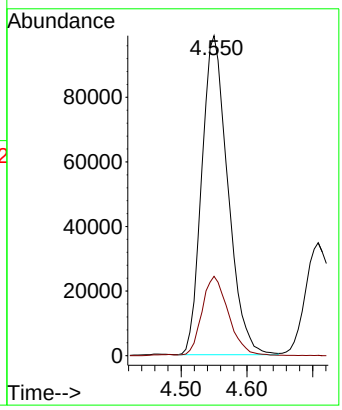


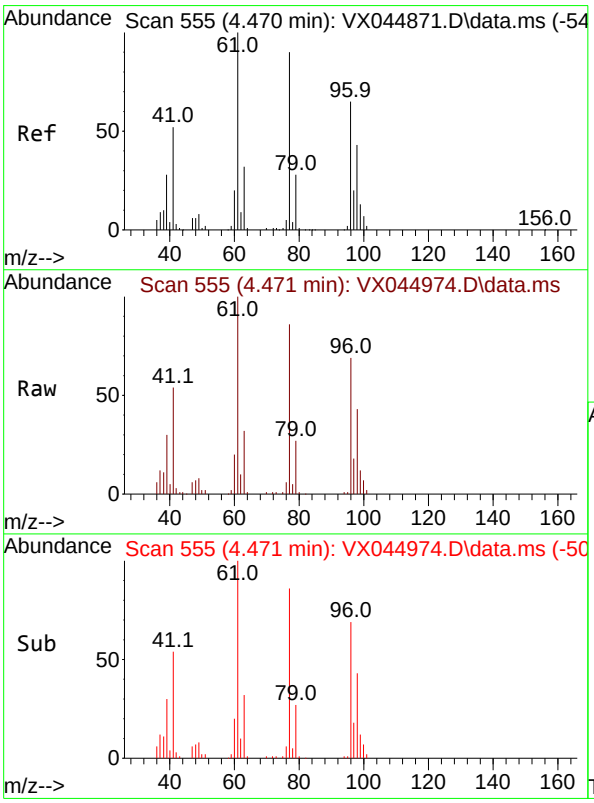
#25
2-Butanone
Concen: 302.246 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 272772

Ion	Ratio	Lower	Upper
43	100		
72	24.7	21.2	31.8

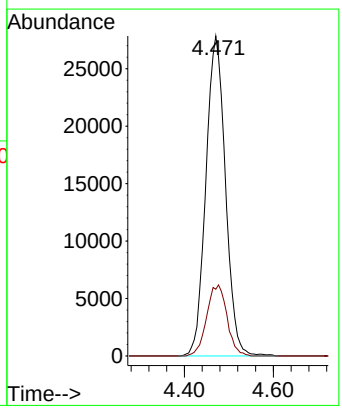


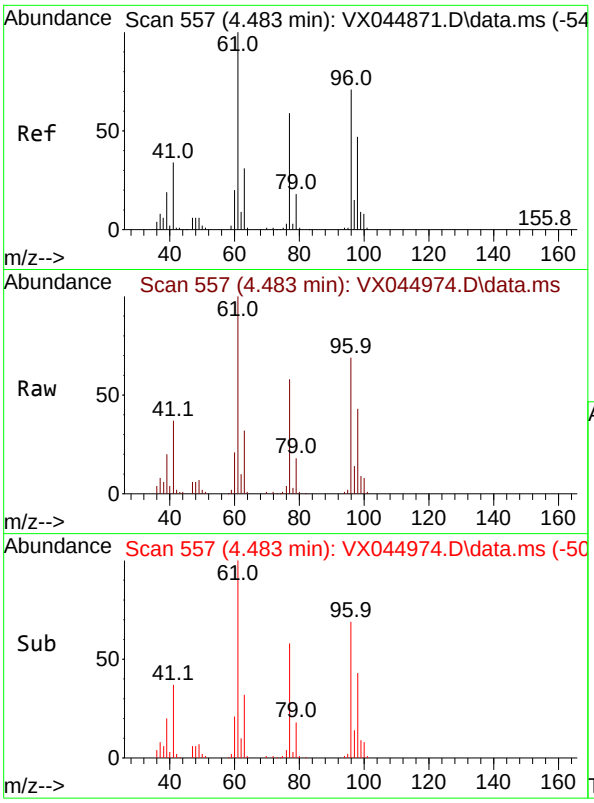


#26
2,2-Dichloropropane
Concen: 46.148 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 77 Resp: 85229

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.8	35.3



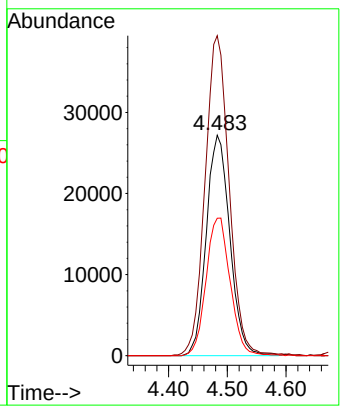


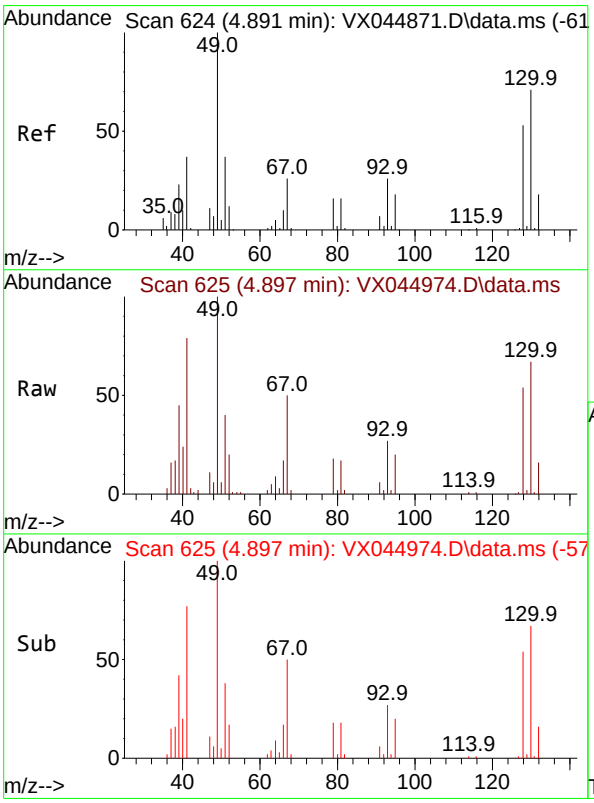
#27
cis-1,2-Dichloroethene
Concen: 52.676 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 75807

Ion	Ratio	Lower	Upper
96	100		
61	148.6	0.0	294.0
98	64.0	0.0	131.2

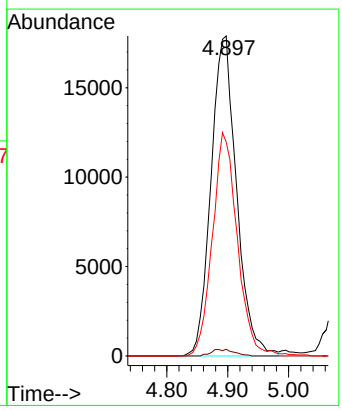


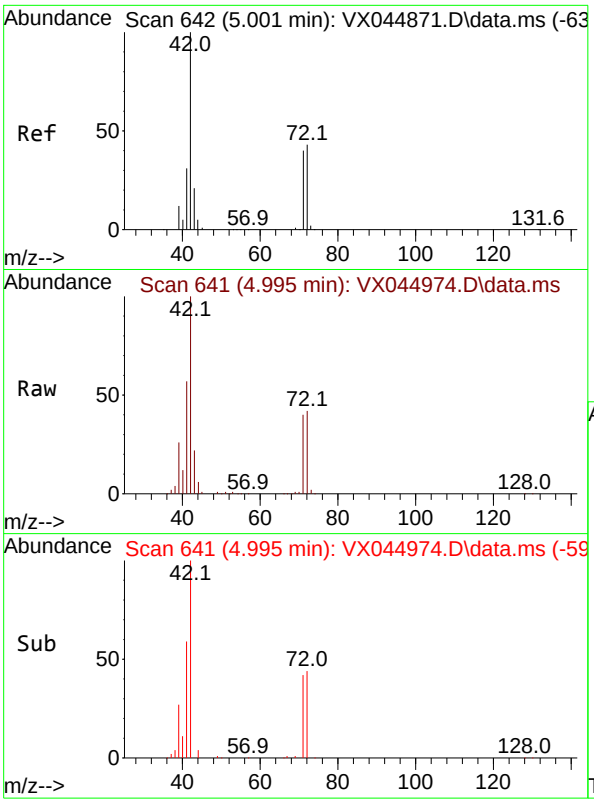


#28
Bromochloromethane
Concen: 46.604 ug/l
RT: 4.897 min Scan# 625
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 49 Resp: 52159

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	68.4	56.7	85.1



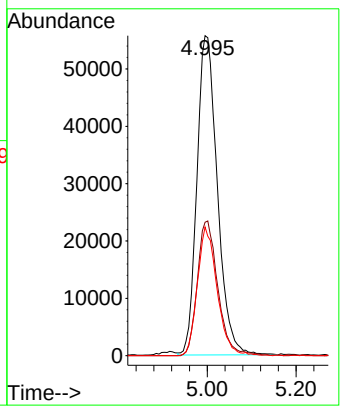


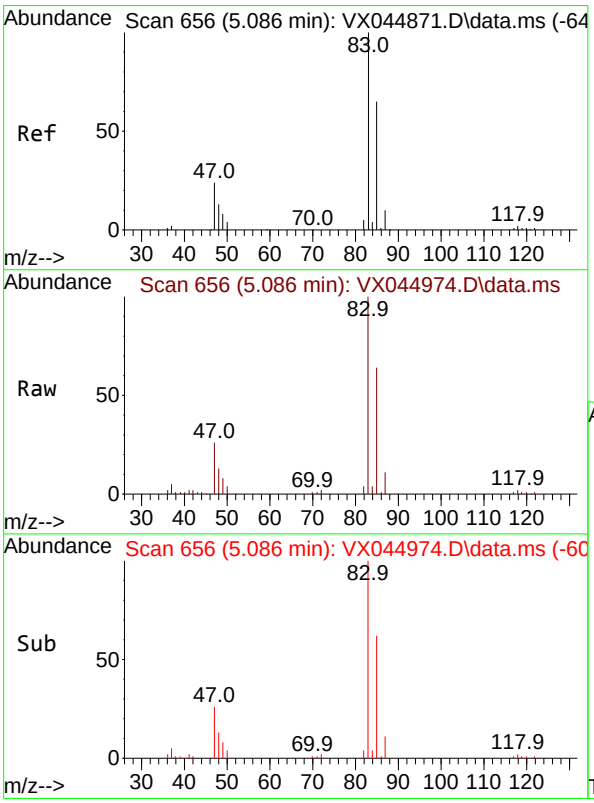
#29
Tetrahydrofuran
Concen: 297.864 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 178501

Ion	Ratio	Lower	Upper
42	100		
72	42.4	35.0	52.4
71	38.8	32.6	48.8

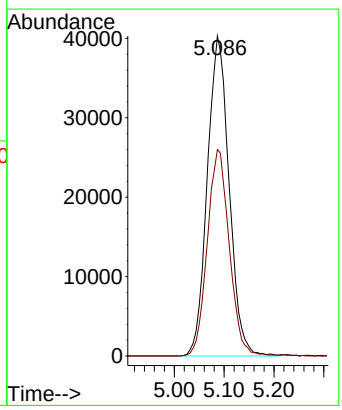


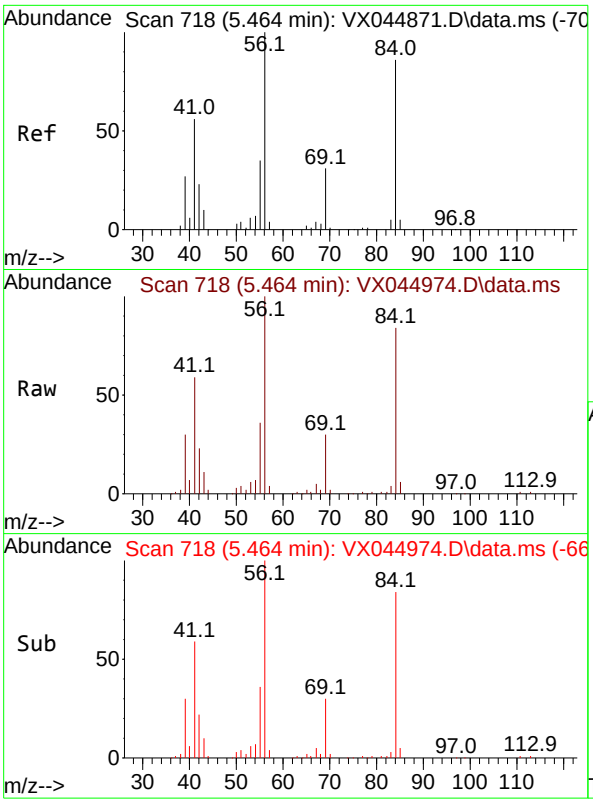


#30
Chloroform
Concen: 54.189 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 83 Resp: 122388

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.1	78.1



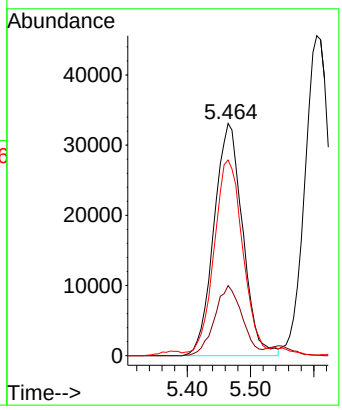


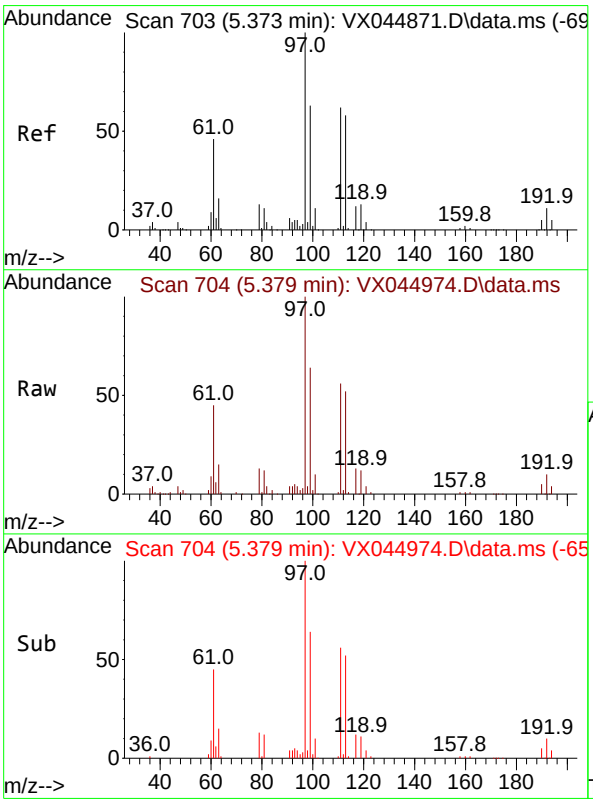
#31
Cyclohexane
Concen: 48.520 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 104172

Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.4	36.6
84	82.5	69.0	103.6

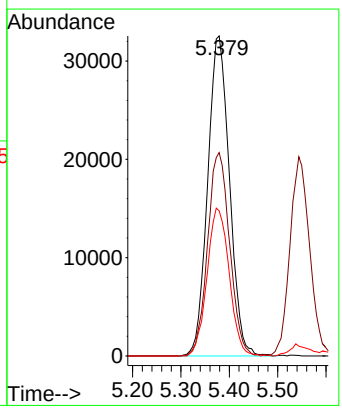


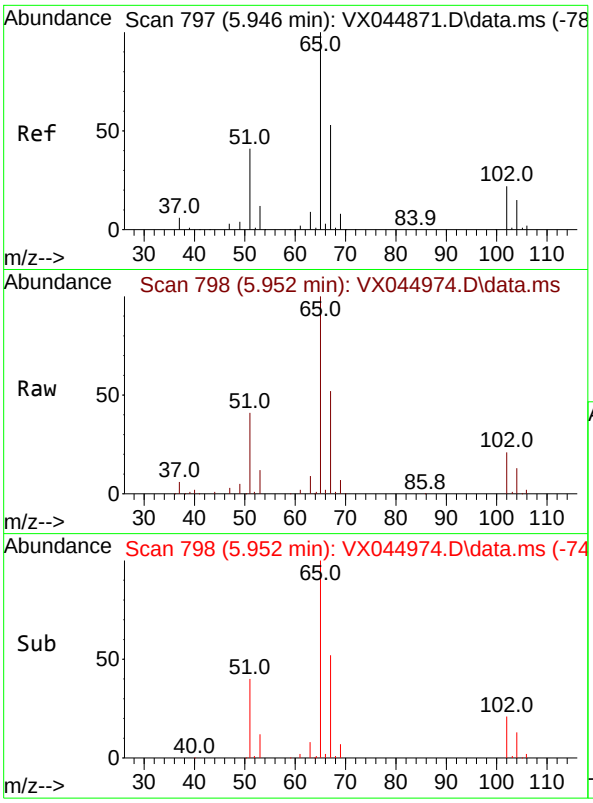


#32
1,1,1-Trichloroethane
Concen: 53.209 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 97 Resp: 101932

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.6
61	46.9	36.6	55.0



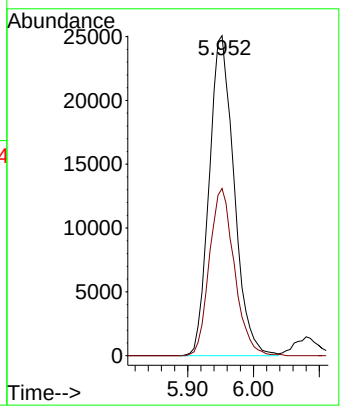


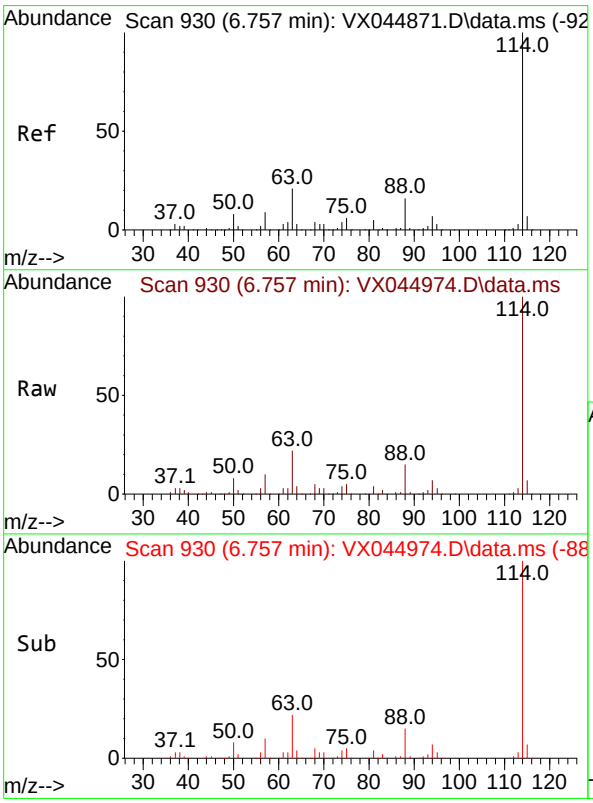
#33
1,2-Dichloroethane-d4
Concen: 47.661 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 65892

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	108.2

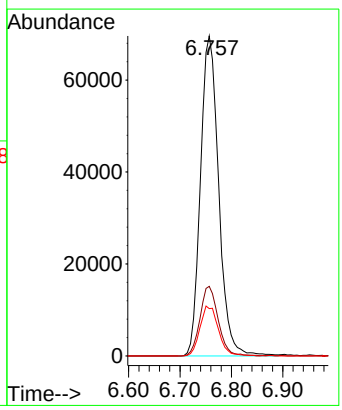


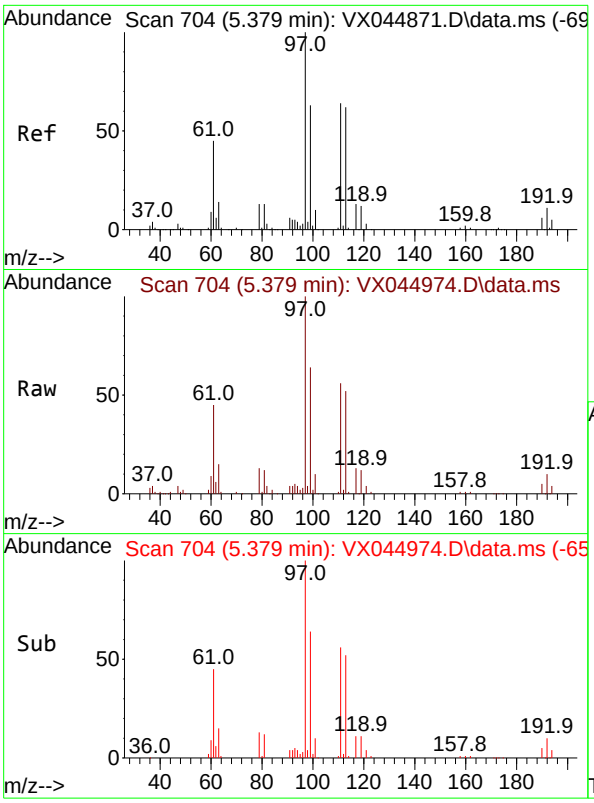


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:114 Resp: 171556

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	42.4
88	14.8	0.0	31.4



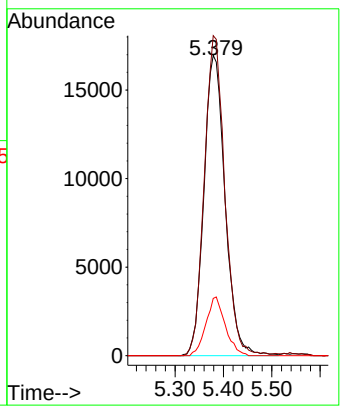


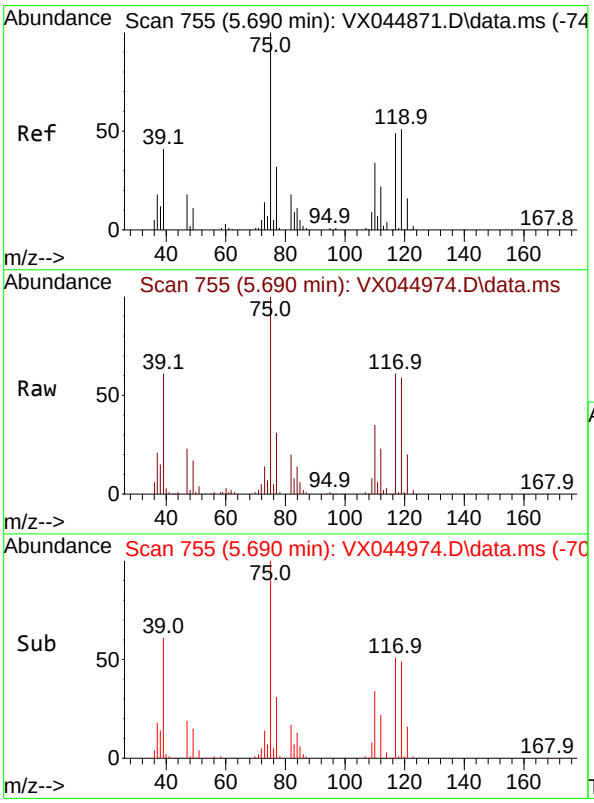
#35
Dibromofluoromethane
Concen: 46.286 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 51627

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.5	125.3
192	17.8	14.4	21.6

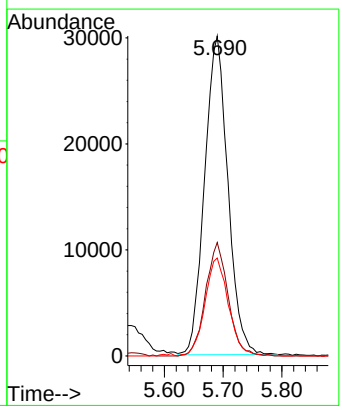


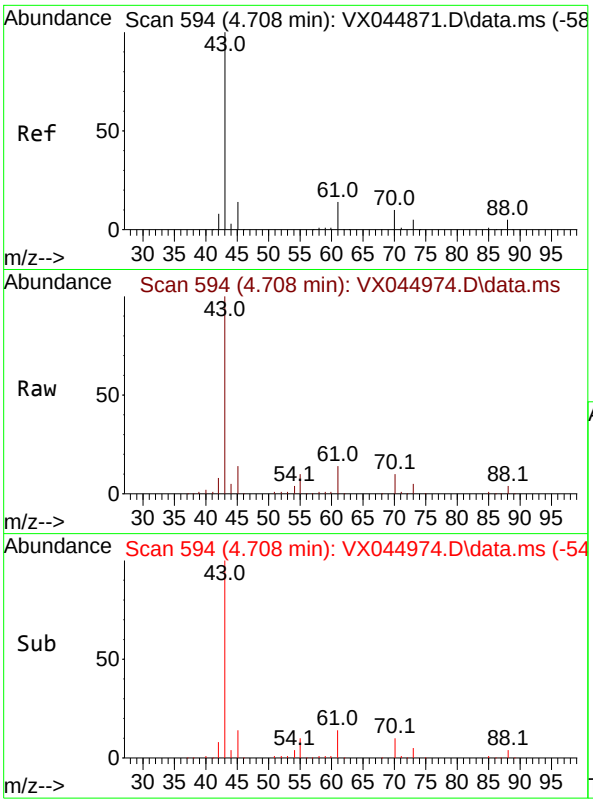


#36
1,1-Dichloropropene
Concen: 51.452 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 82797

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.2	51.6
77	31.0	24.6	37.0



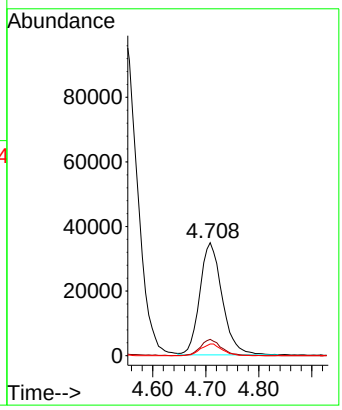


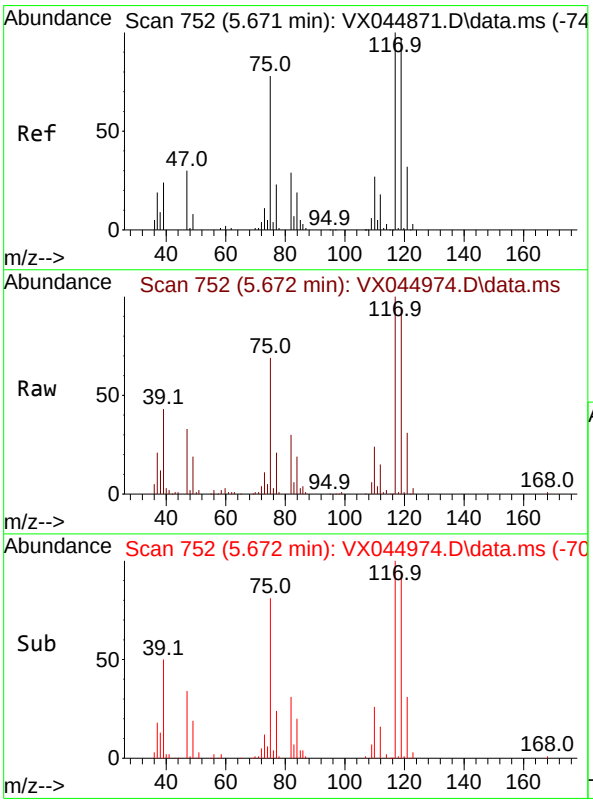
#37
Ethyl Acetate
Concen: 56.903 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 101851

Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.4
70	10.0	8.2	12.2

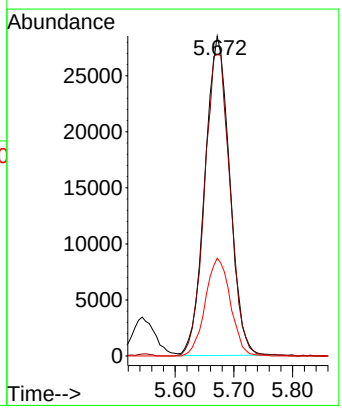


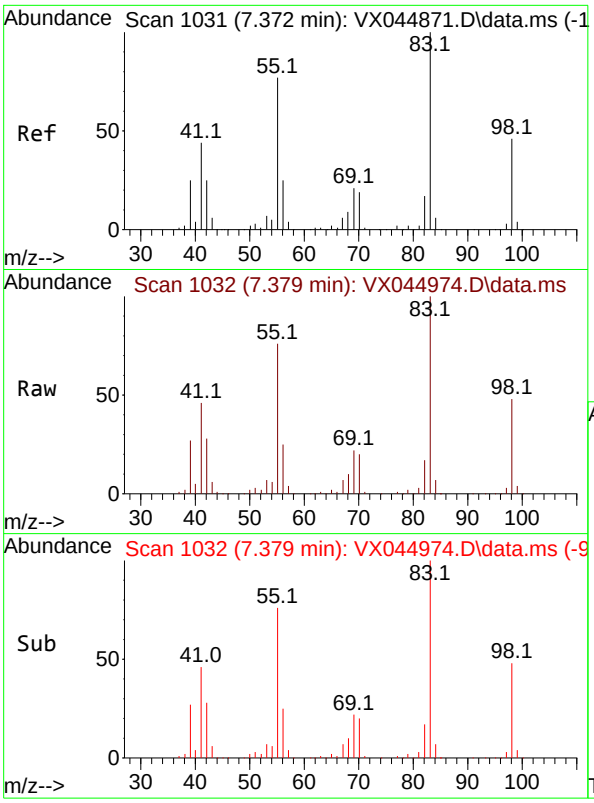


#38
Carbon Tetrachloride
Concen: 52.993 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:117 Resp: 83568

Ion	Ratio	Lower	Upper
117	100		
119	94.3	77.5	116.3
121	30.6	25.6	38.4



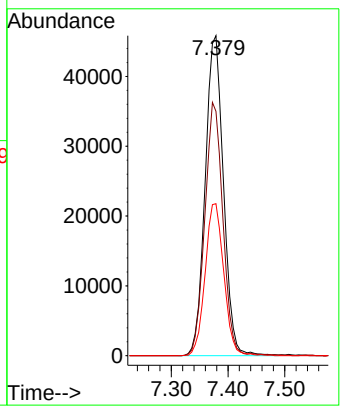


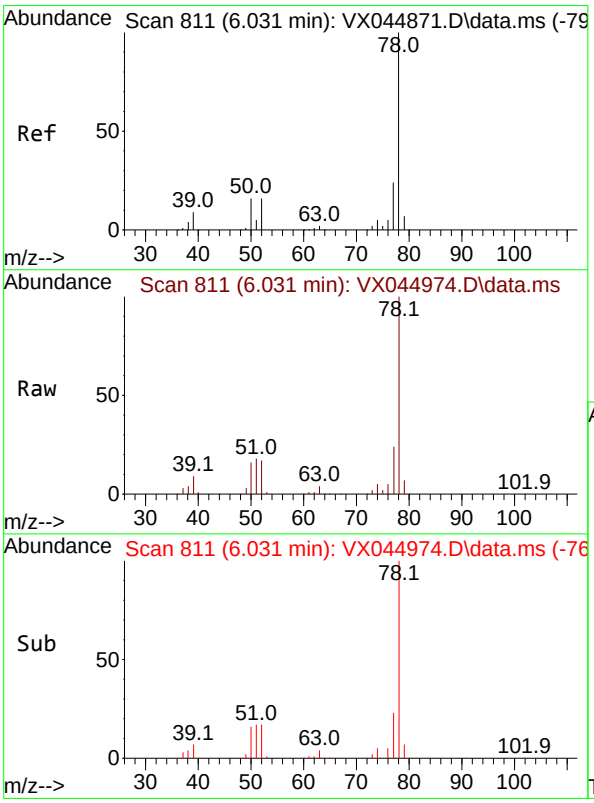
#39
Methylcyclohexane
Concen: 49.315 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 102598

Ion	Ratio	Lower	Upper
83	100		
55	76.4	61.3	91.9
98	47.5	37.0	55.6

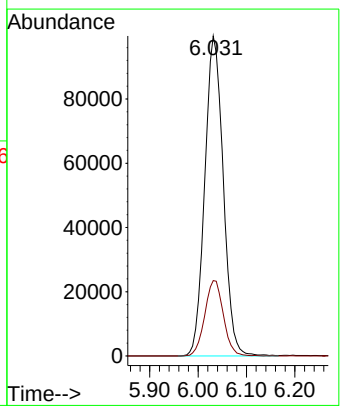


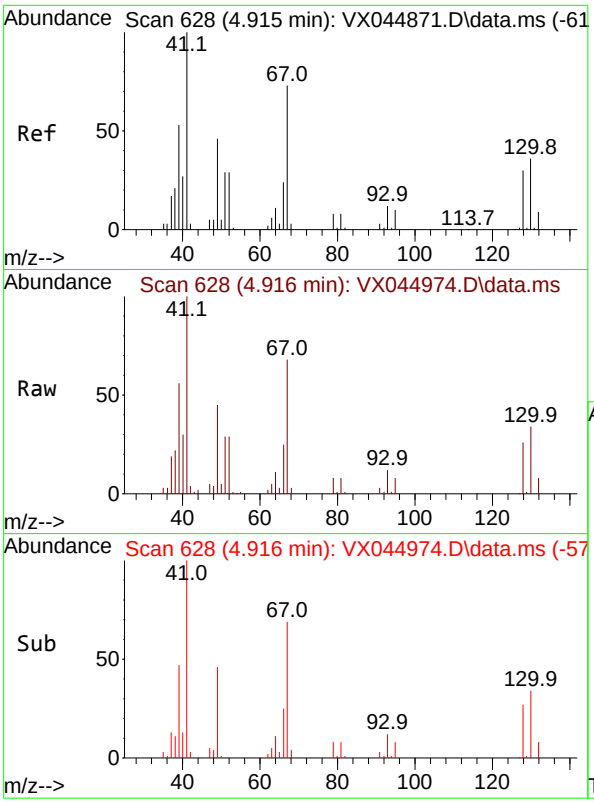


#40
Benzene
Concen: 52.680 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 78 Resp: 264712

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6



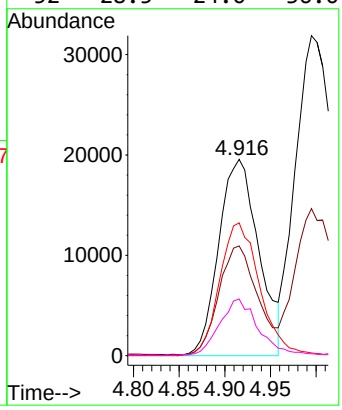


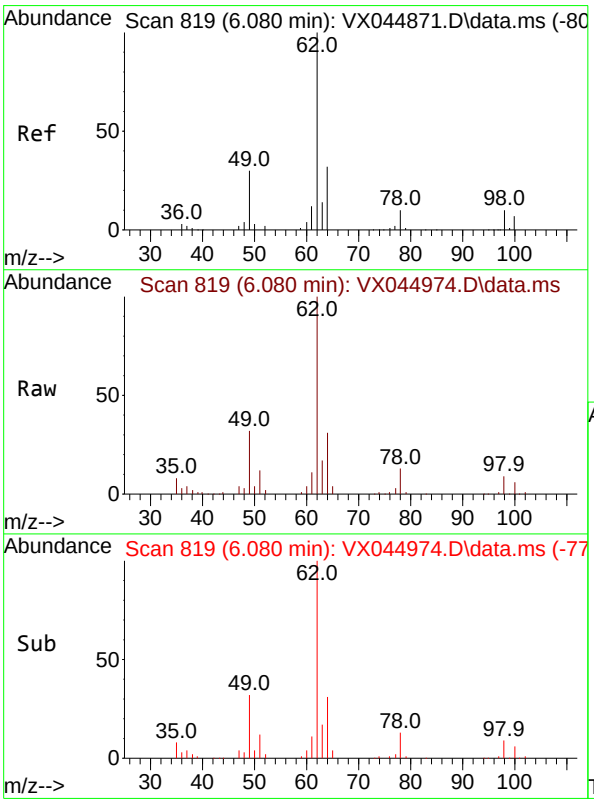
#41
Methacrylonitrile
Concen: 62.407 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 59791

Ion	Ratio	Lower	Upper
41	100		
39	54.2	43.1	64.7
67	67.6	57.0	85.6
52	28.5	24.0	36.0

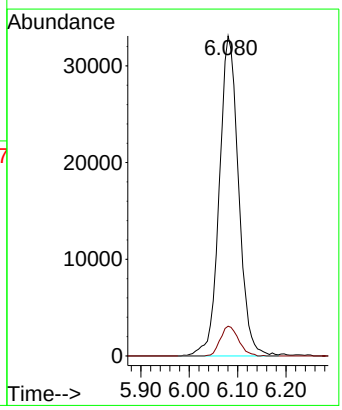


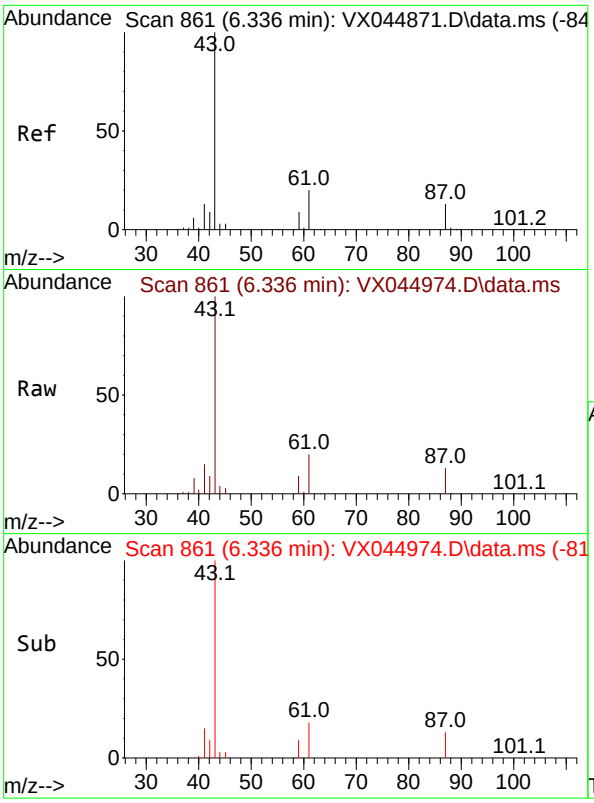


#42
1,2-Dichloroethane
Concen: 57.228 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 62 Resp: 91650

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	19.4



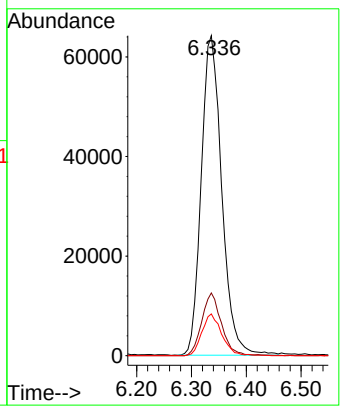


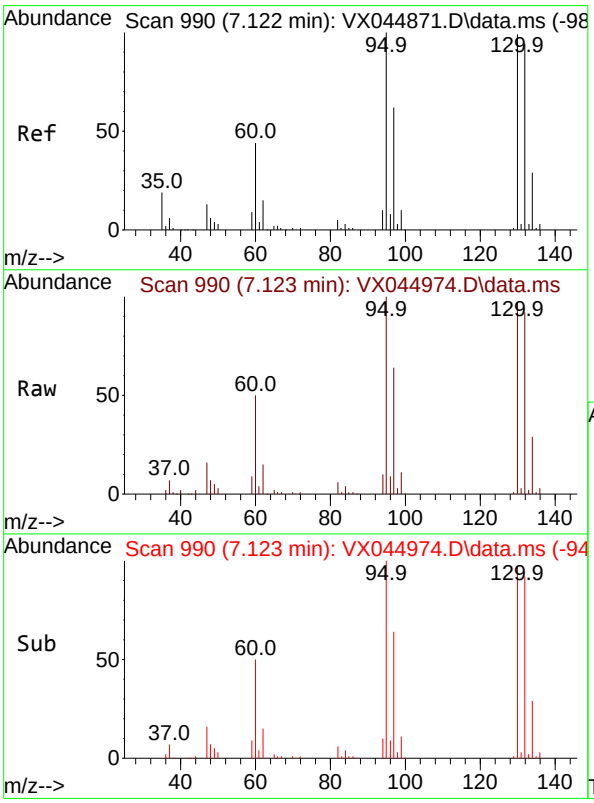
#43
Isopropyl Acetate
Concen: 57.723 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 166844

Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.8	23.8
87	12.7	10.0	15.0

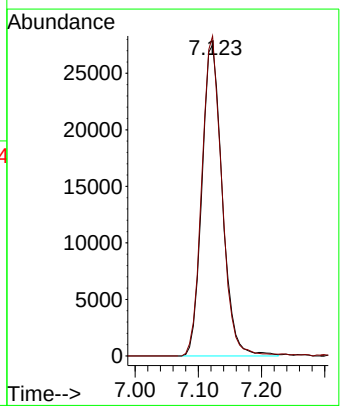


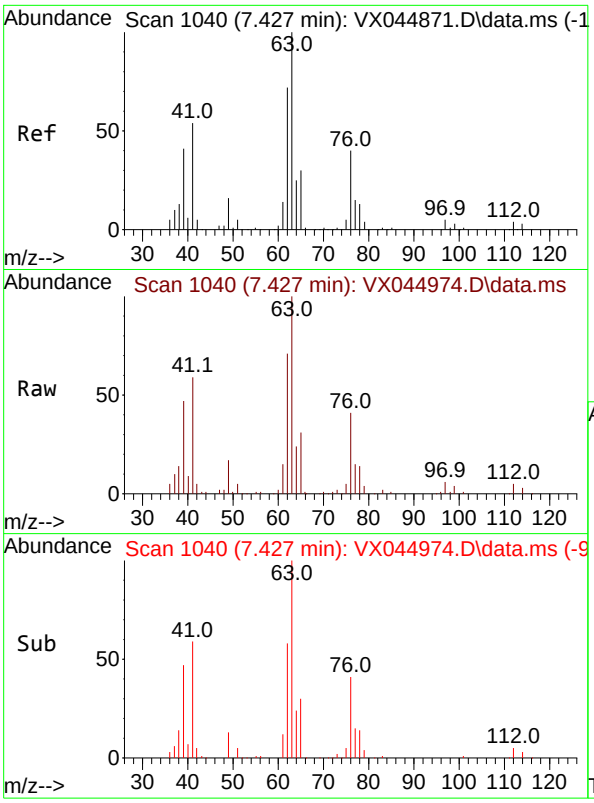


#44
Trichloroethene
Concen: 53.693 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:130 Resp: 61670

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	202.4



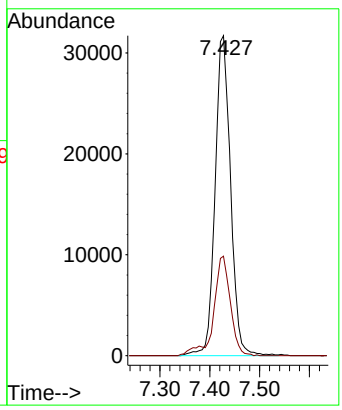


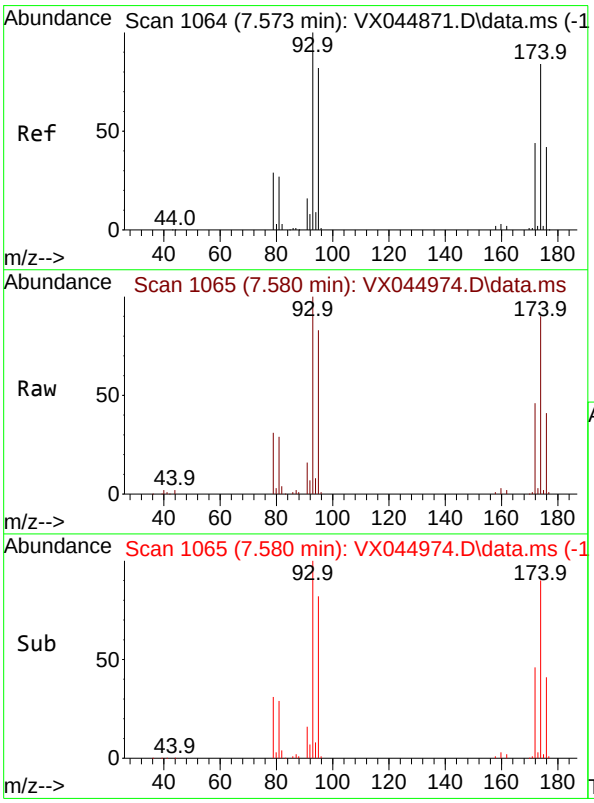
#45
1,2-Dichloropropane
Concen: 54.668 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 68342

Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.2	36.4

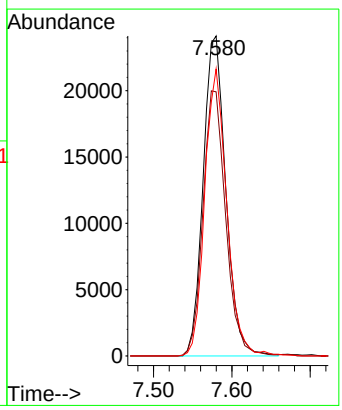


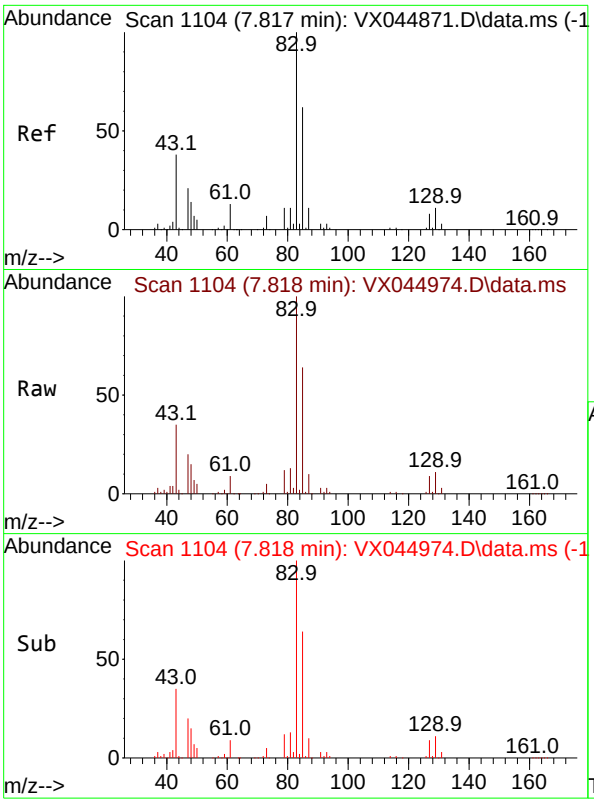


#46
Dibromomethane
Concen: 55.940 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 93 Resp: 48498

Ion	Ratio	Lower	Upper
93	100		
95	83.4	66.2	99.4
174	87.2	69.9	104.9



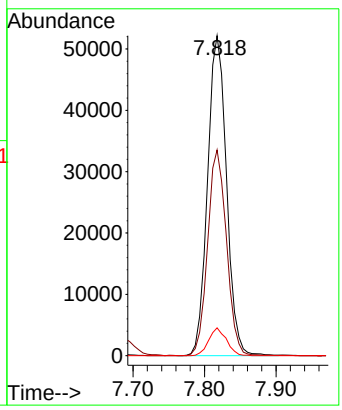


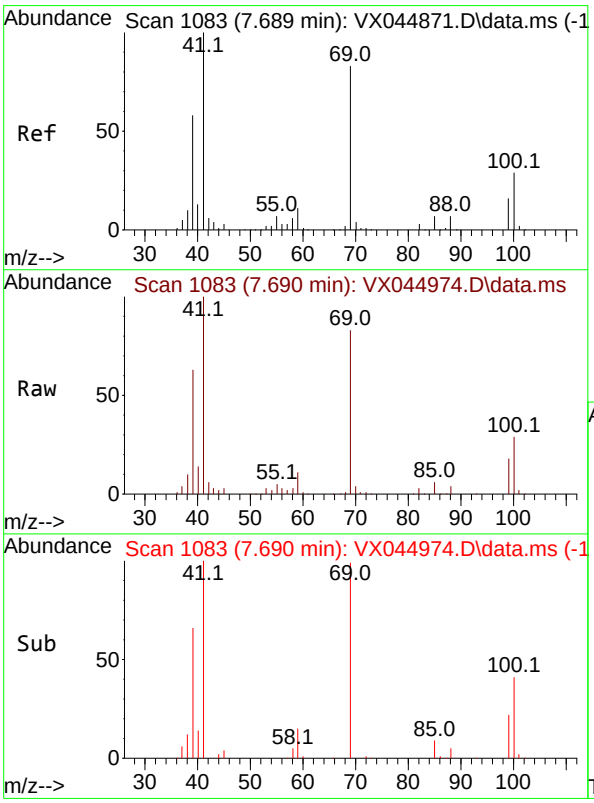
#47
Bromodichloromethane
Concen: 57.216 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 96049

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.0	75.0
127	8.7	6.4	9.6

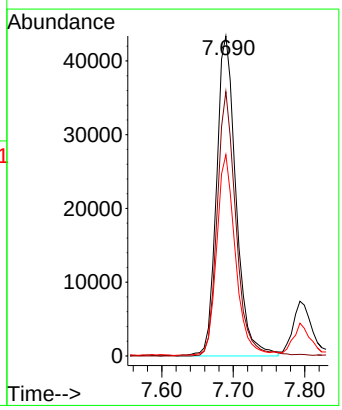


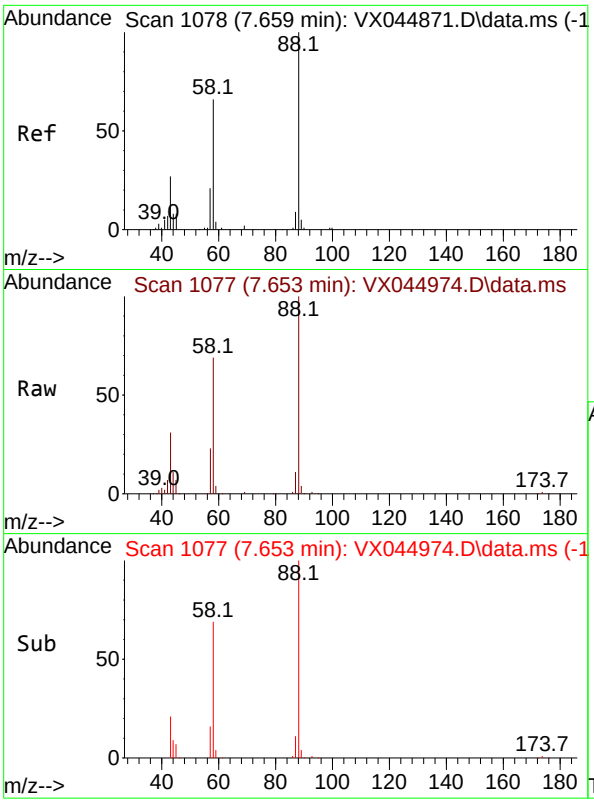


#48
Methyl methacrylate
Concen: 60.311 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 41 Resp: 82197

Ion	Ratio	Lower	Upper
41	100		
69	79.7	65.8	98.8
39	60.1	46.4	69.6



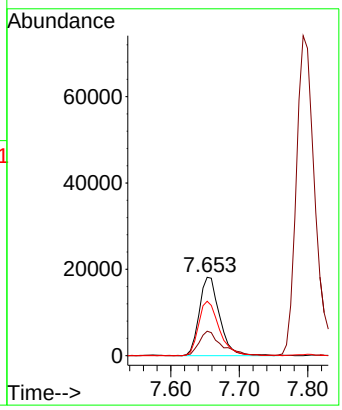


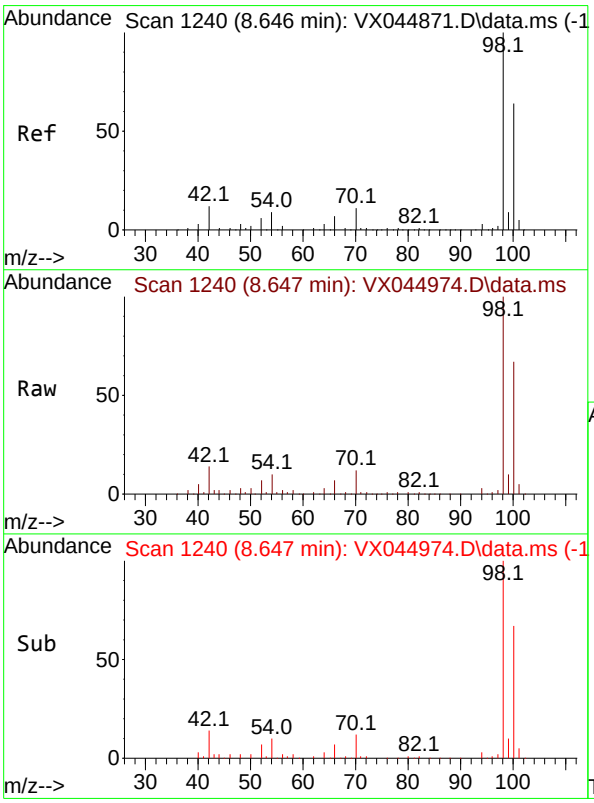
#49
1,4-Dioxane
Concen: 1276.524 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 37326

Ion	Ratio	Lower	Upper
88	100		
43	35.1	26.6	39.8
58	70.8	55.9	83.9

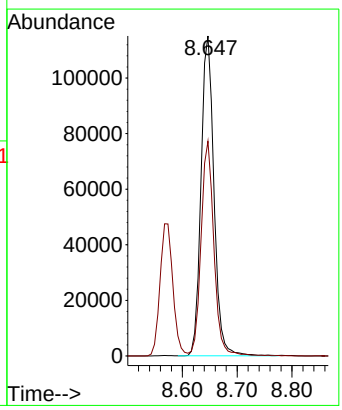


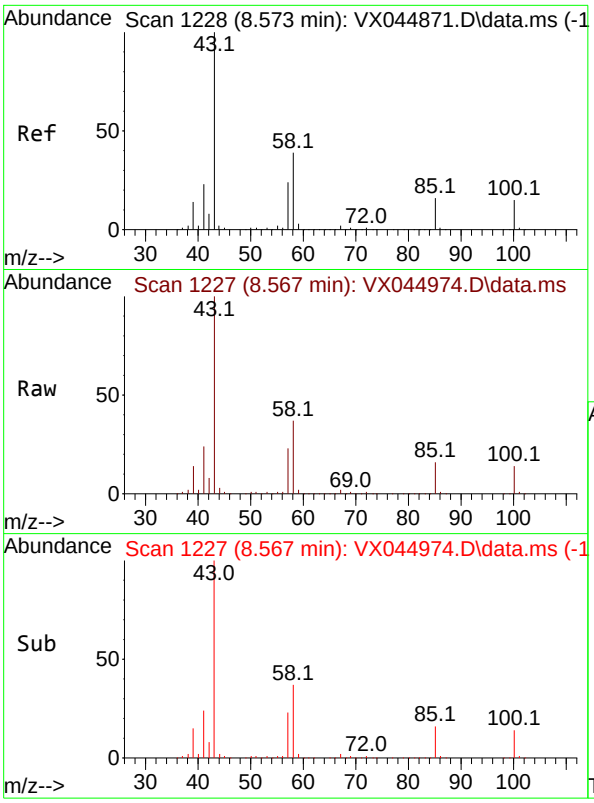


#50
Toluene-d8
Concen: 44.728 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 98 Resp: 188654

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.7	79.1



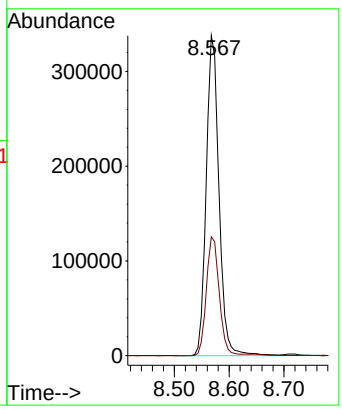


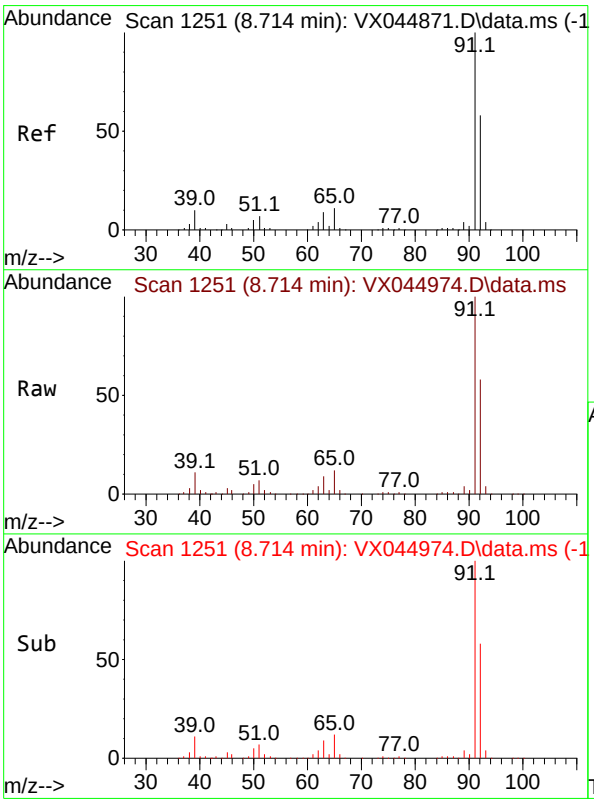
#51
4-Methyl-2-Pentanone
Concen: 309.071 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 543106

Ion	Ratio	Lower	Upper
43	100		
58	38.3	30.8	46.2

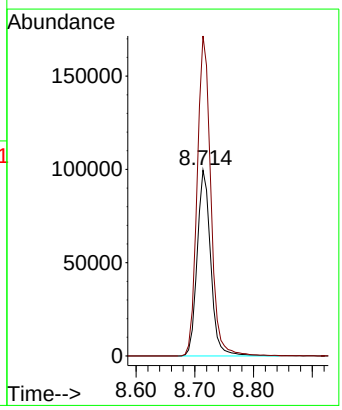


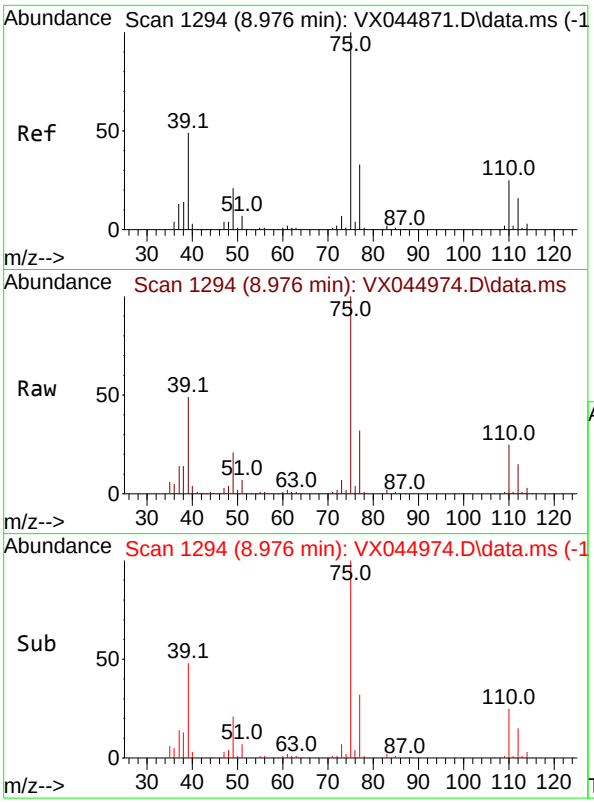


#52
Toluene
Concen: 53.206 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 92 Resp: 159226

Ion	Ratio	Lower	Upper
92	100		
91	173.9	137.4	206.2



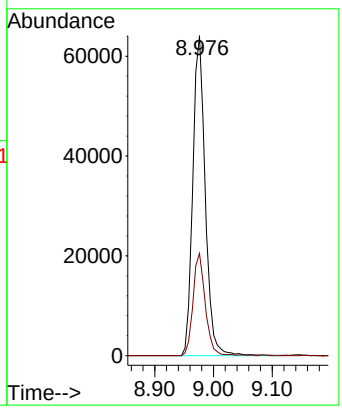


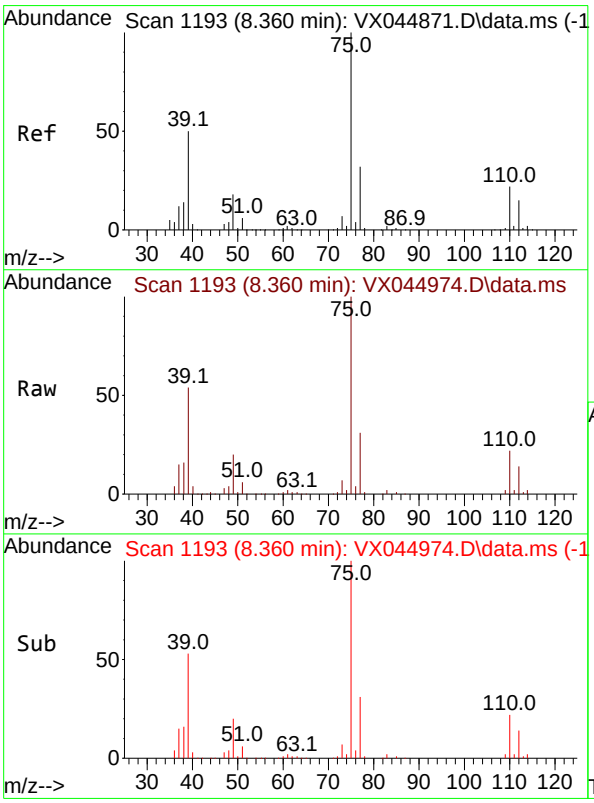
#53
t-1,3-Dichloropropene
Concen: 55.632 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 94505

Ion	Ratio	Lower	Upper
75	100		
77	32.0	26.0	39.0

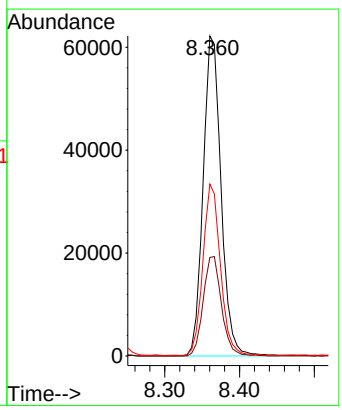


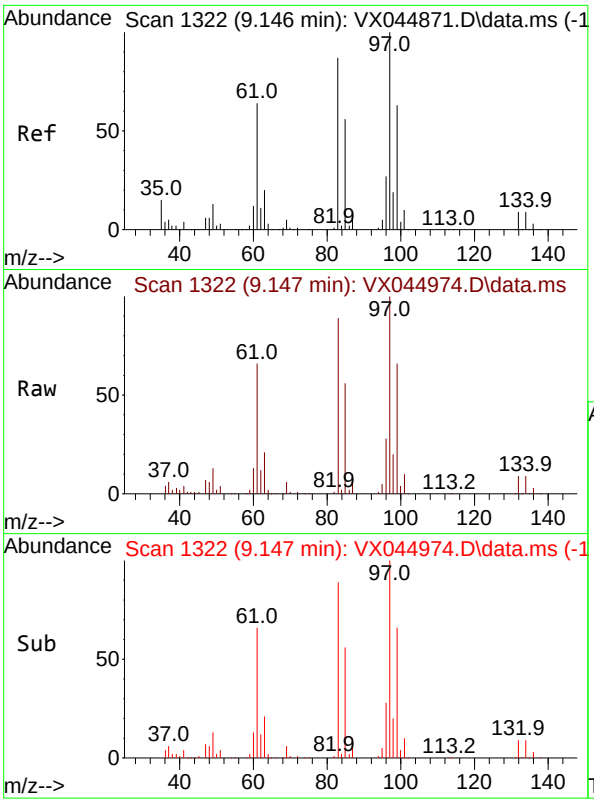


#54
cis-1,3-Dichloropropene
Concen: 54.707 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 103618

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.3	37.9
39	53.5	40.0	60.0



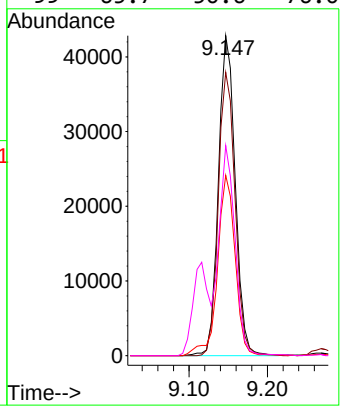


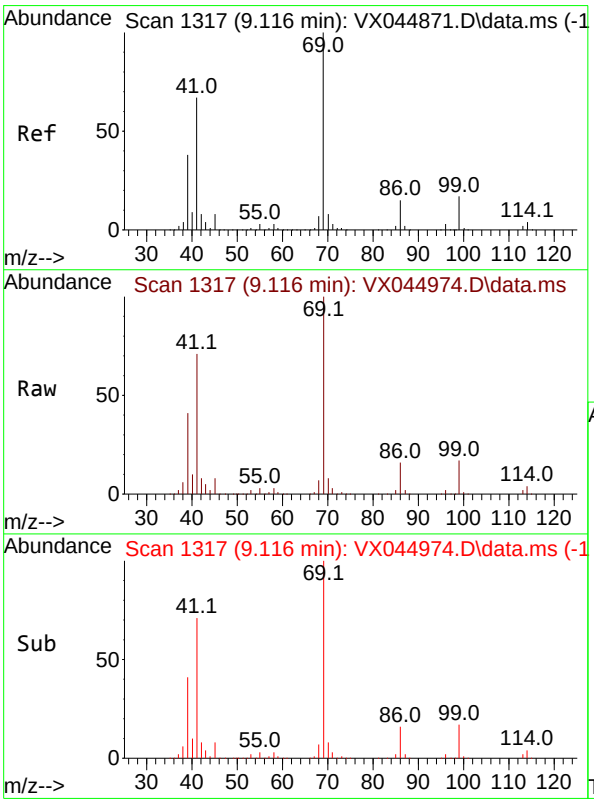
#55
1,1,2-Trichloroethane
Concen: 55.708 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 64087

Ion	Ratio	Lower	Upper
97	100		
83	88.6	69.8	104.6
85	56.4	44.8	67.2
99	65.7	50.6	76.0

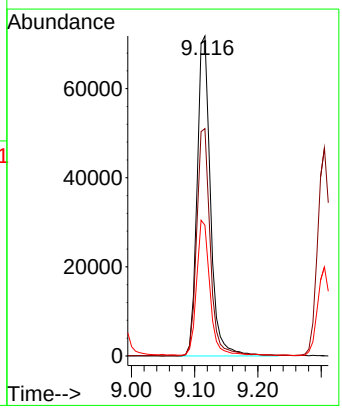


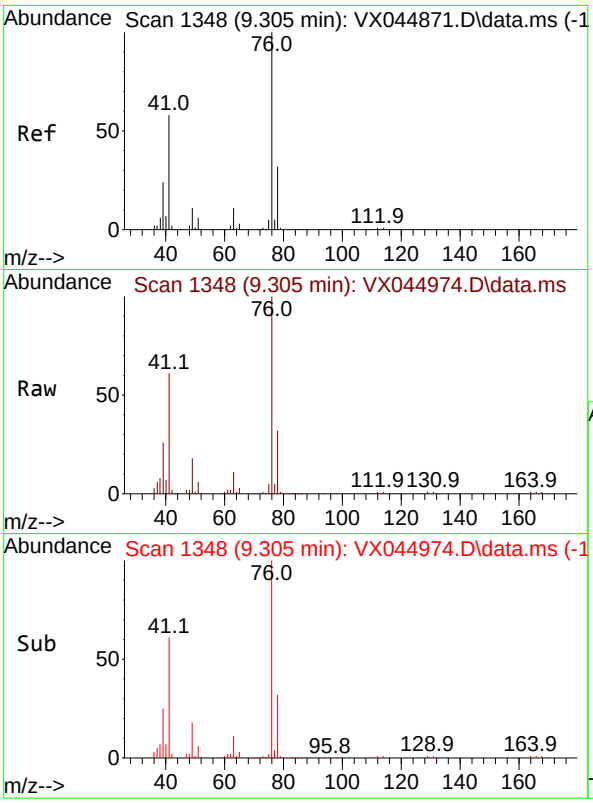


#56
Ethyl methacrylate
Concen: 57.122 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 69 Resp: 106133

Ion	Ratio	Lower	Upper
69	100		
41	72.2	55.2	82.8
39	41.2	30.8	46.2



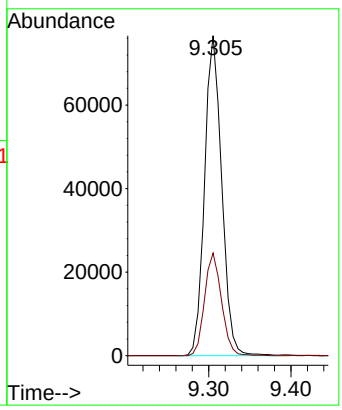


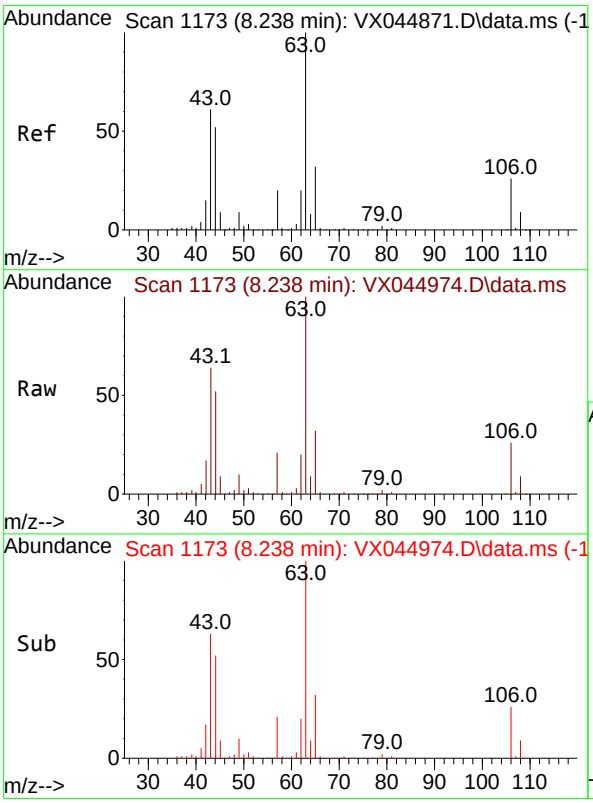
#57
1,3-Dichloropropane
Concen: 55.110 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 110929

Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.8	38.8

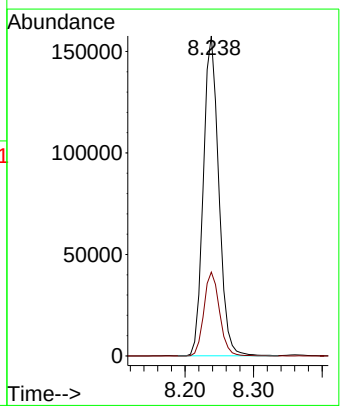


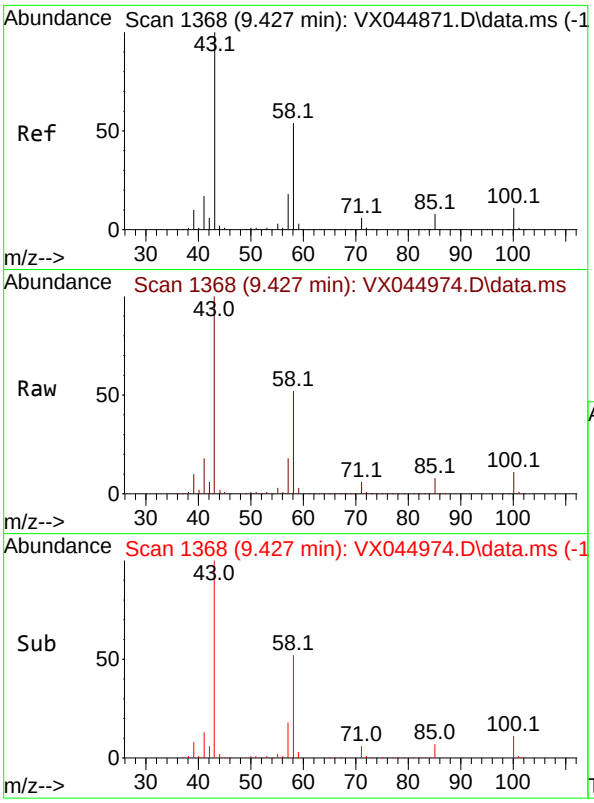


#58
2-Chloroethyl Vinyl ether
Concen: 270.450 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 63 Resp: 246733

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.3	31.9



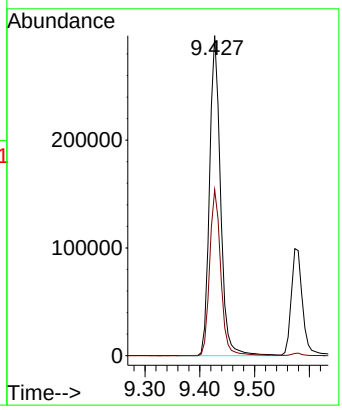


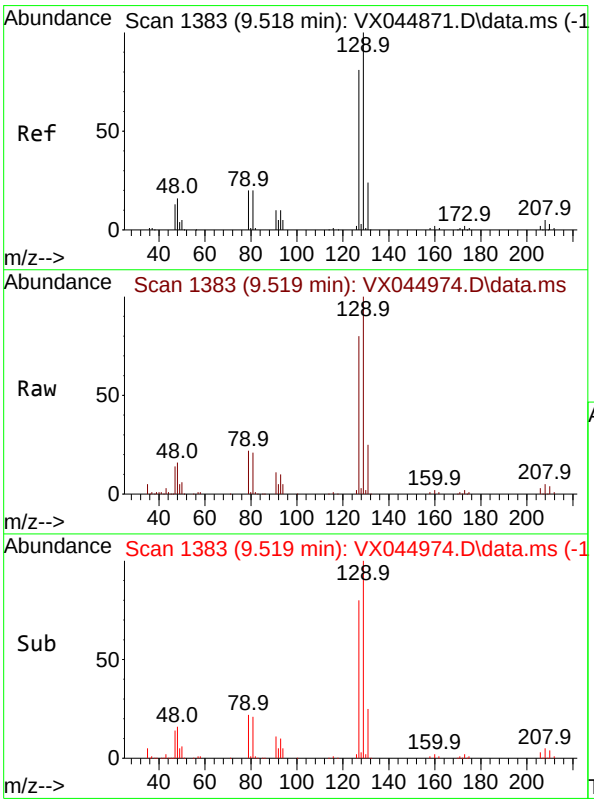
#59
2-Hexanone
Concen: 324.260 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 410543

Ion	Ratio	Lower	Upper
43	100		
58	52.7	27.5	82.4

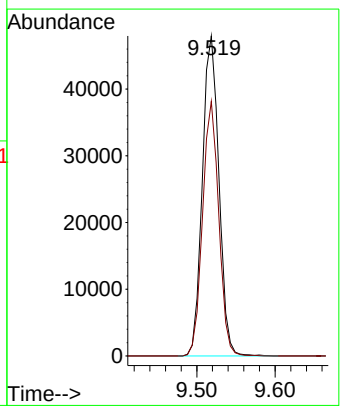


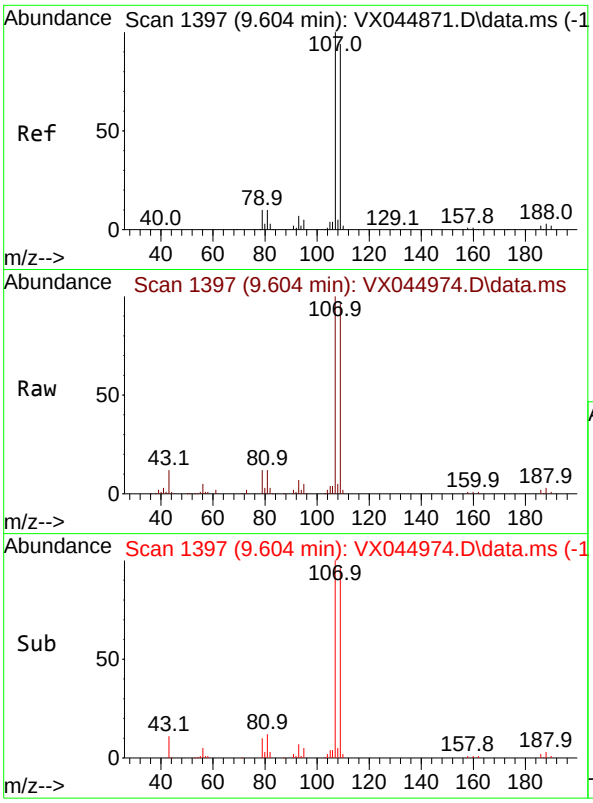


#60
Dibromochloromethane
Concen: 57.145 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:129 Resp: 70306

Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.1	117.3



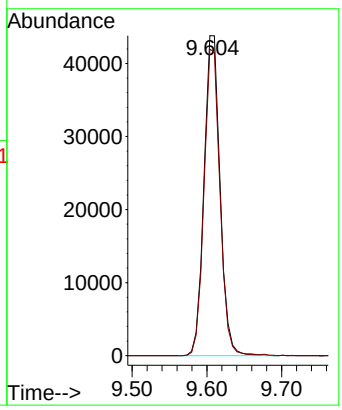


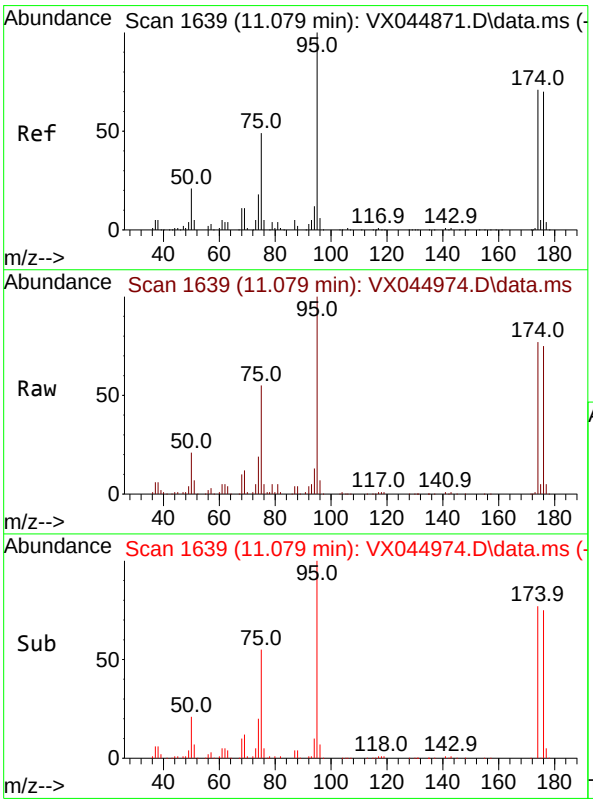
#61
1,2-Dibromoethane
Concen: 56.187 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 65513

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.9	113.9

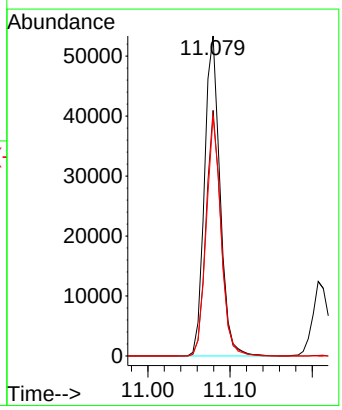


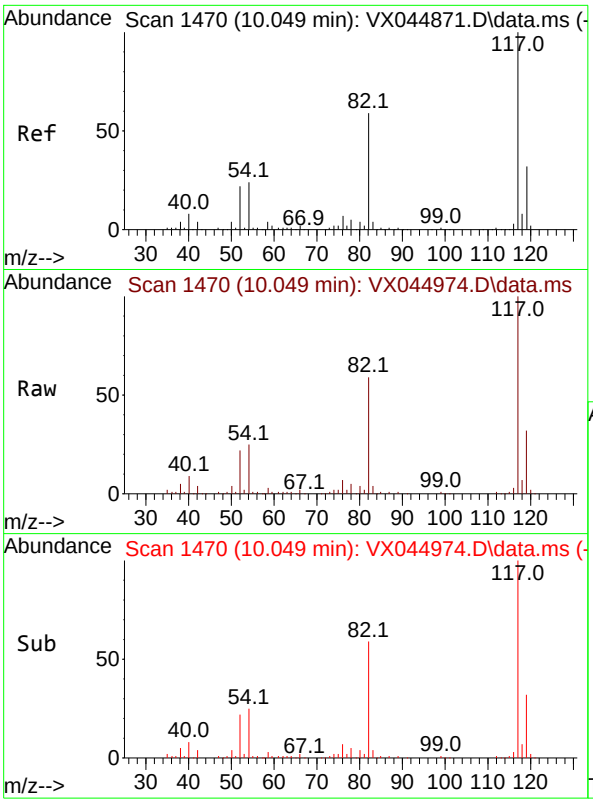


#62
4-Bromofluorobenzene
Concen: 49.160 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 95 Resp: 69901

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	142.6
176	71.0	0.0	141.6



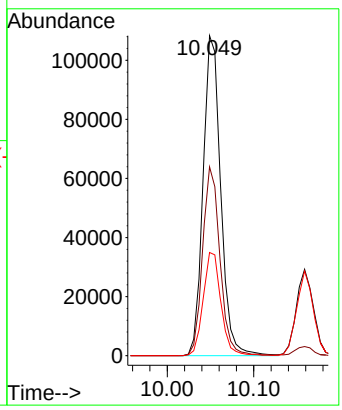


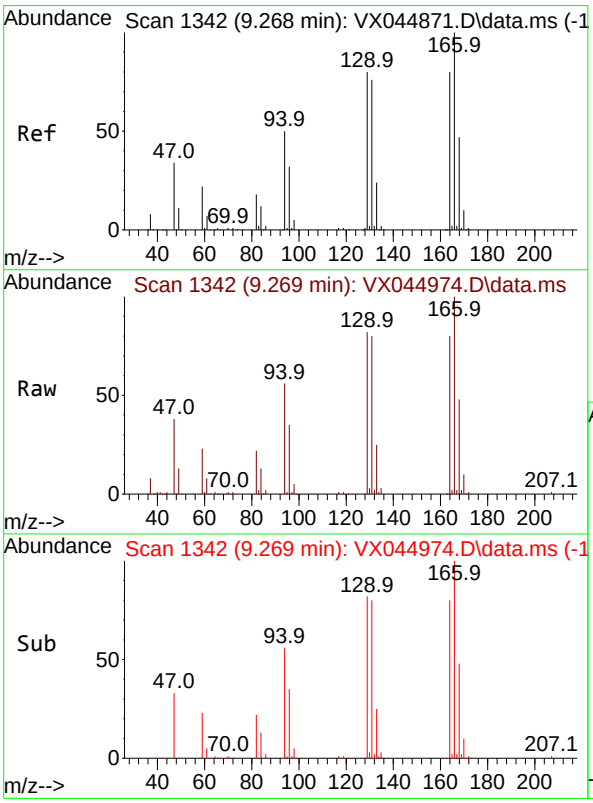
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 153467

Ion	Ratio	Lower	Upper
117	100		
82	59.0	47.5	71.3
119	32.3	25.4	38.0

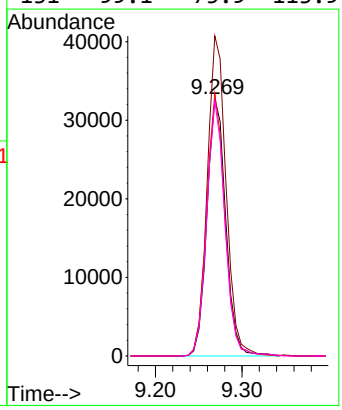


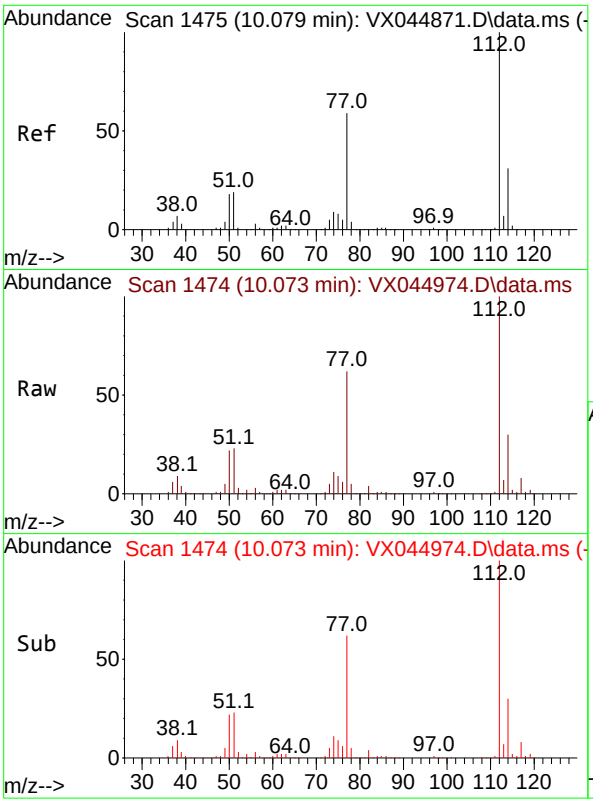


#64
Tetrachloroethene
Concen: 50.766 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:164 Resp: 49133

Ion	Ratio	Lower	Upper
164	100		
166	124.5	100.4	150.6
129	102.0	79.9	119.9
131	99.1	75.9	113.9



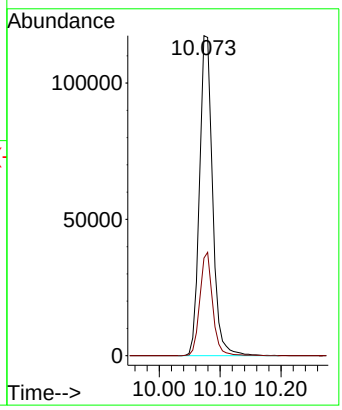


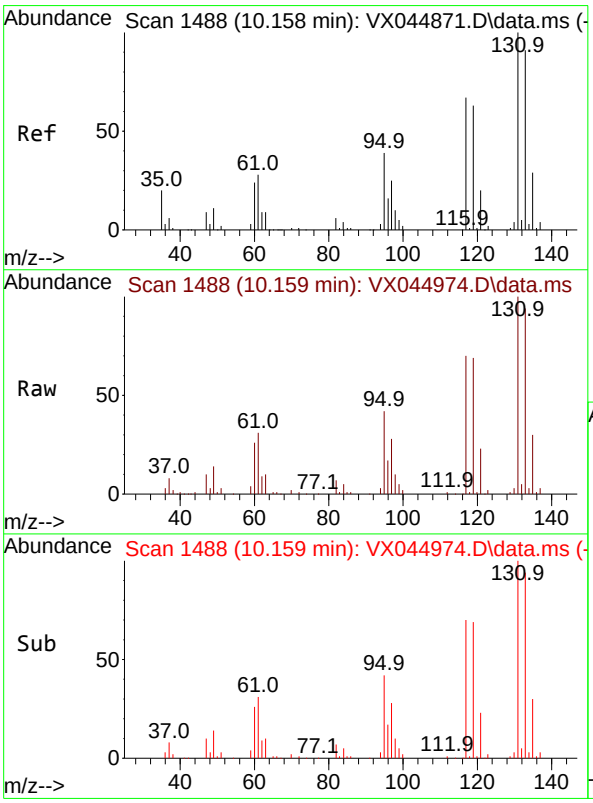
#65
Chlorobenzene
Concen: 53.124 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 175110

Ion	Ratio	Lower	Upper
112	100		
114	30.5	25.0	37.6

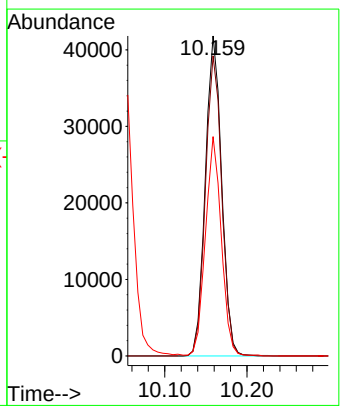


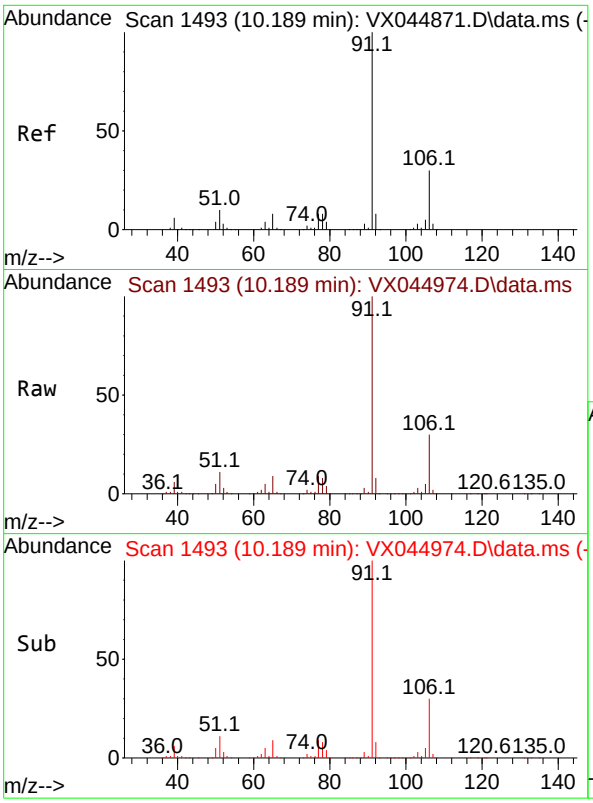


#66
1,1,1,2-Tetrachloroethane
Concen: 54.322 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:131 Resp: 57633

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.1	141.3
119	66.9	33.6	100.6



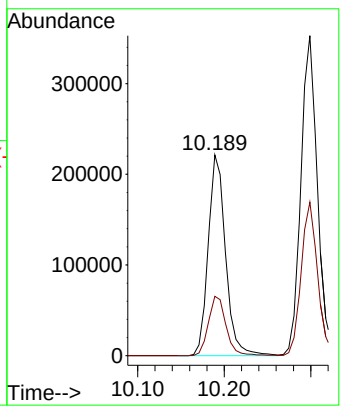


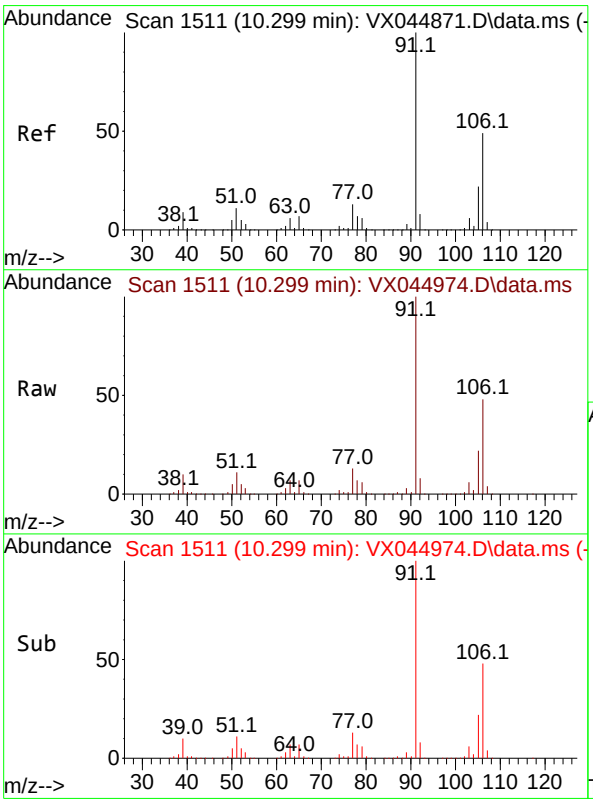
#67
Ethyl Benzene
Concen: 53.064 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 308662

Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.9	35.9

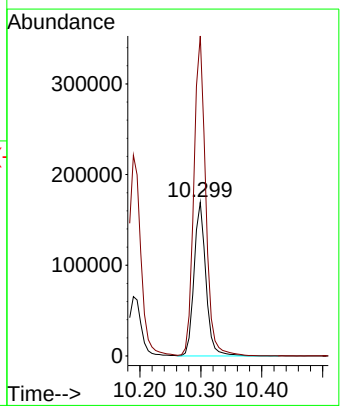


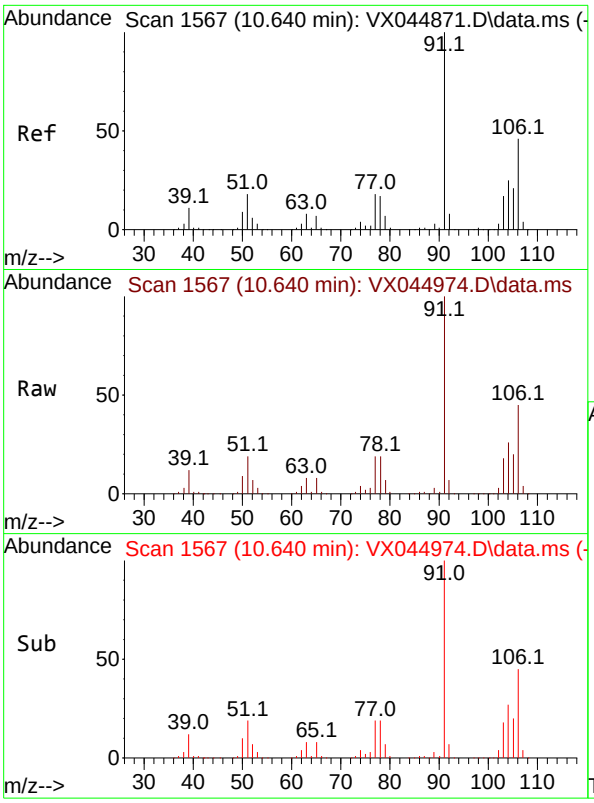


#68
m/p-Xylenes
Concen: 105.988 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:106 Resp: 227422

Ion	Ratio	Lower	Upper
106	100		
91	209.1	164.3	246.5



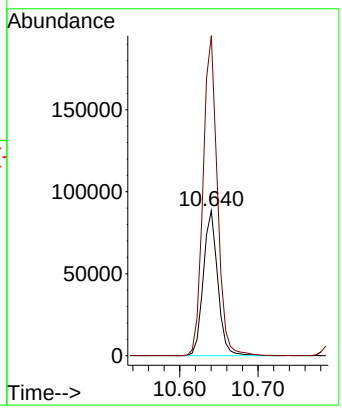


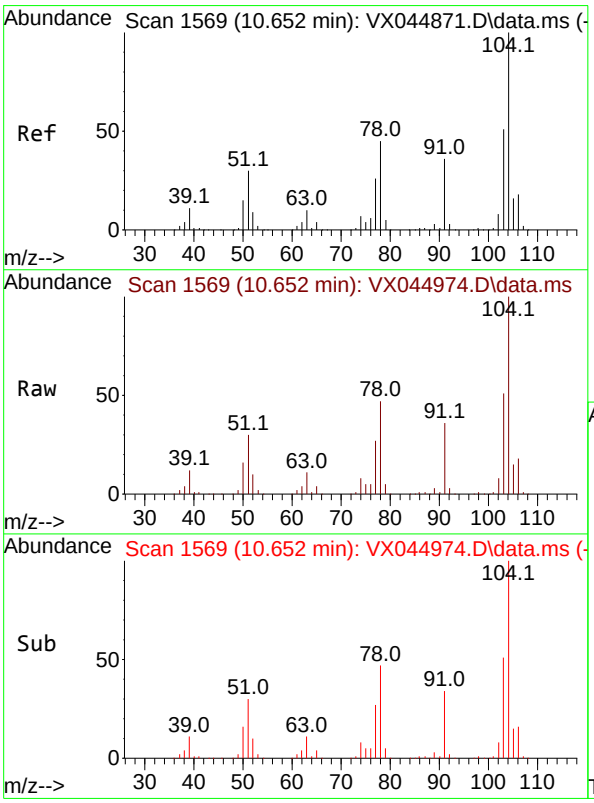
#69
o-Xylene
Concen: 52.414 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 112850

Ion	Ratio	Lower	Upper
106	100		
91	219.6	108.5	325.5

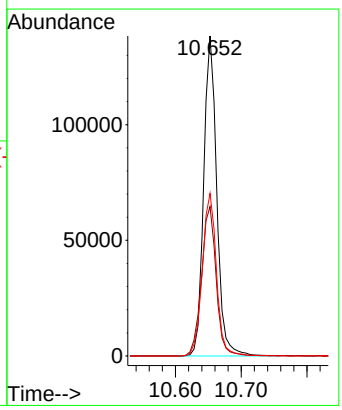


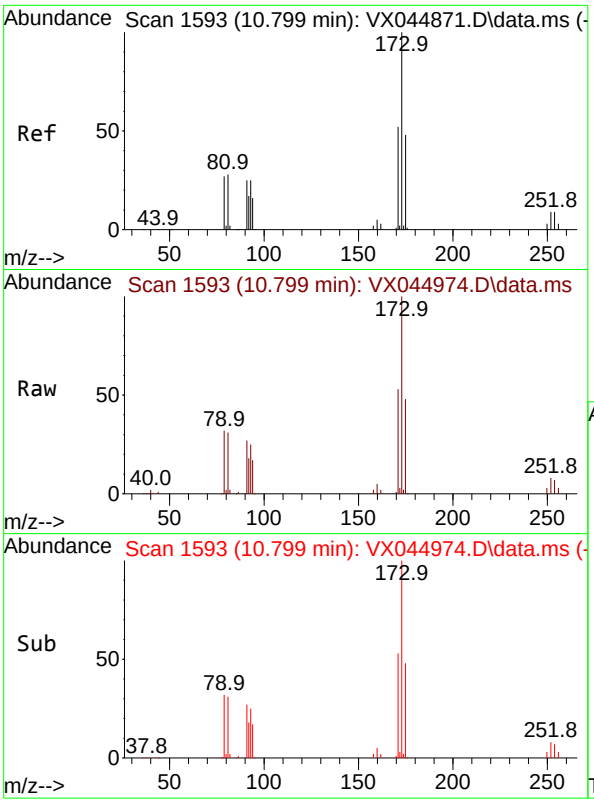


#70
Styrene
Concen: 55.172 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:104 Resp: 191380

Ion	Ratio	Lower	Upper
104	100		
78	52.3	40.5	60.7
103	55.0	43.6	65.4



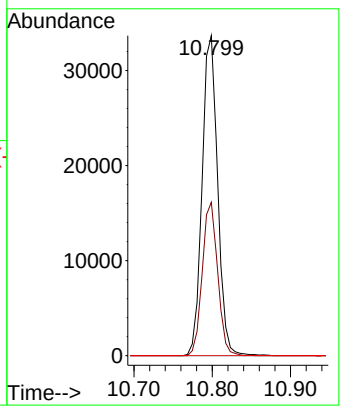


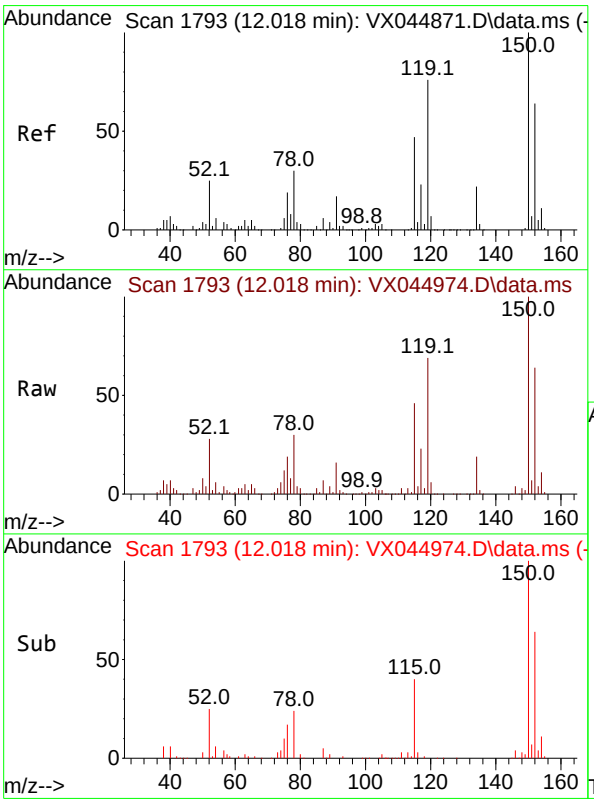
#71
Bromoform
Concen: 58.514 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 46331

Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	72.8
254	0.0	0.0	0.0

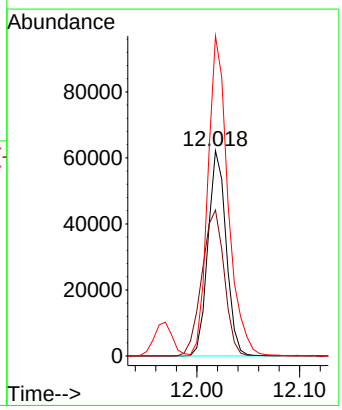


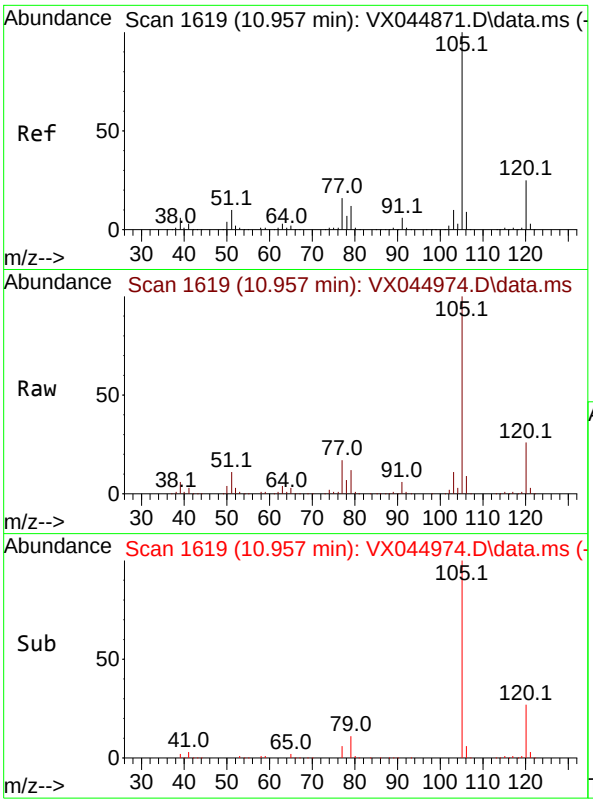


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:152 Resp: 76183

Ion	Ratio	Lower	Upper
152	100		
115	87.8	43.4	130.1
150	172.1	0.0	350.4



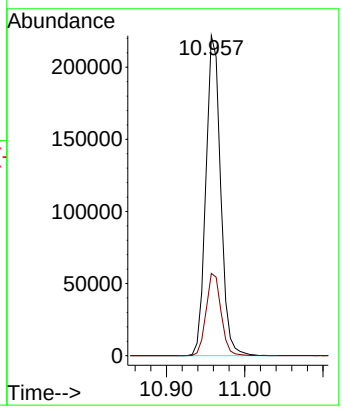


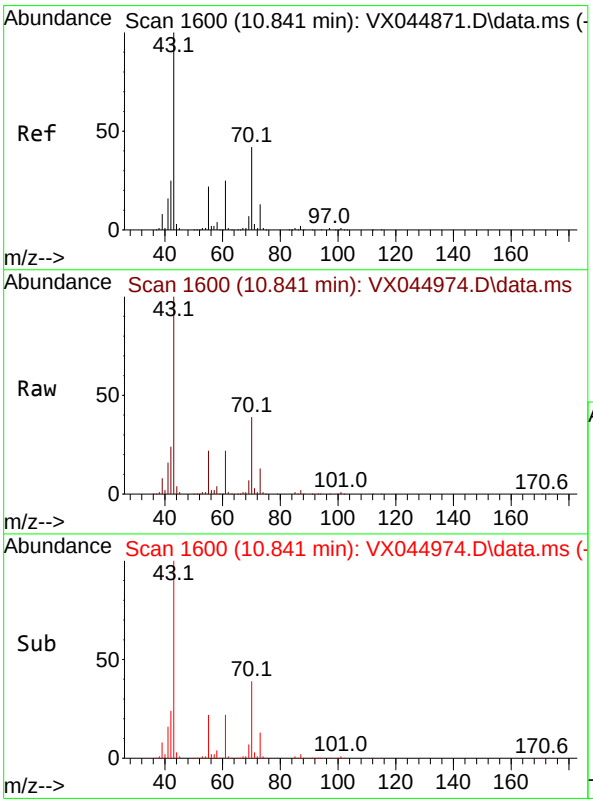
#73
Isopropylbenzene
Concen: 47.192 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 289482

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.5

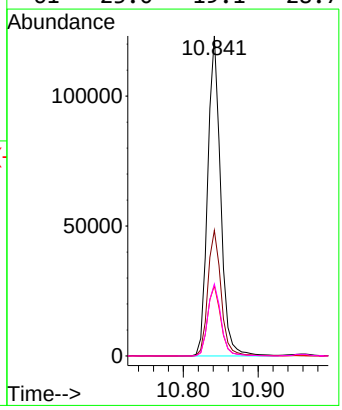


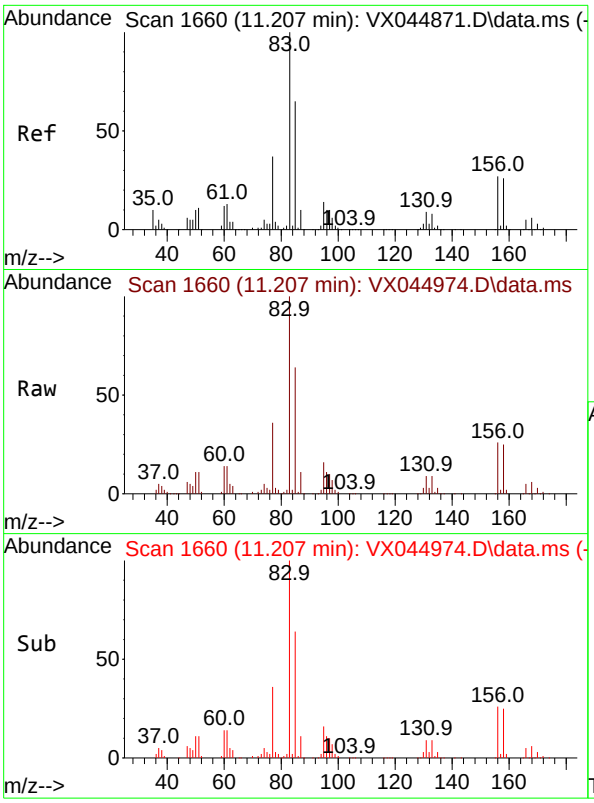


#74
N-amyl acetate
Concen: 53.307 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 43 Resp: 147969

Ion	Ratio	Lower	Upper
43	100		
70	40.1	33.7	50.5
55	22.6	18.6	27.8
61	23.0	19.1	28.7



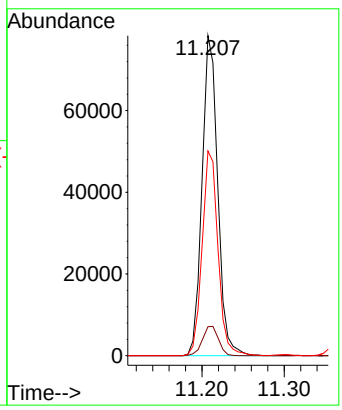


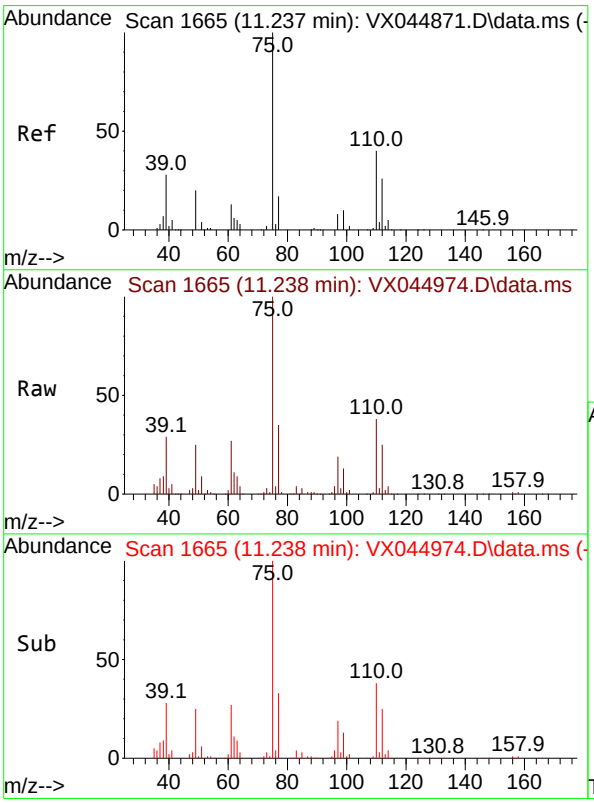
#75
1,1,2,2-Tetrachloroethane
Concen: 49.296 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 103911

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.5
85	64.8	32.3	96.8

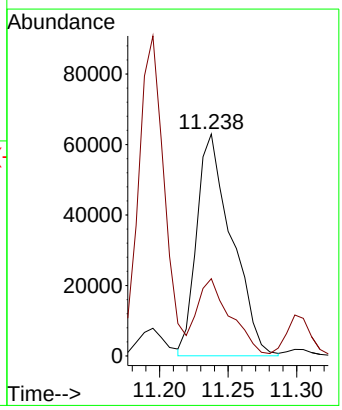


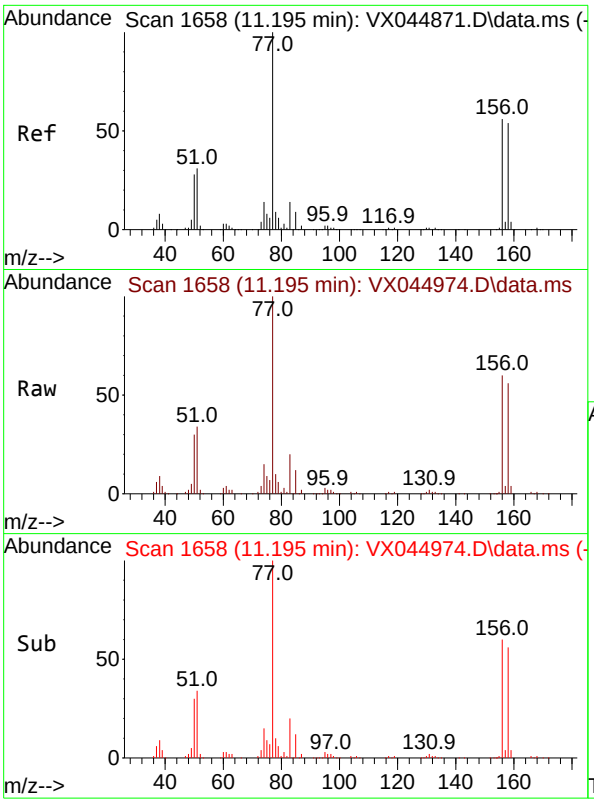


#76
1,2,3-Trichloropropane
Concen: 66.264 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 111926

Ion	Ratio	Lower	Upper
75	100		
77	33.2	21.9	65.7



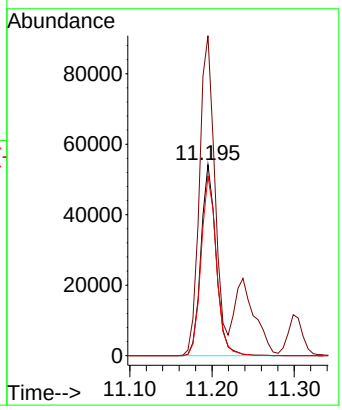


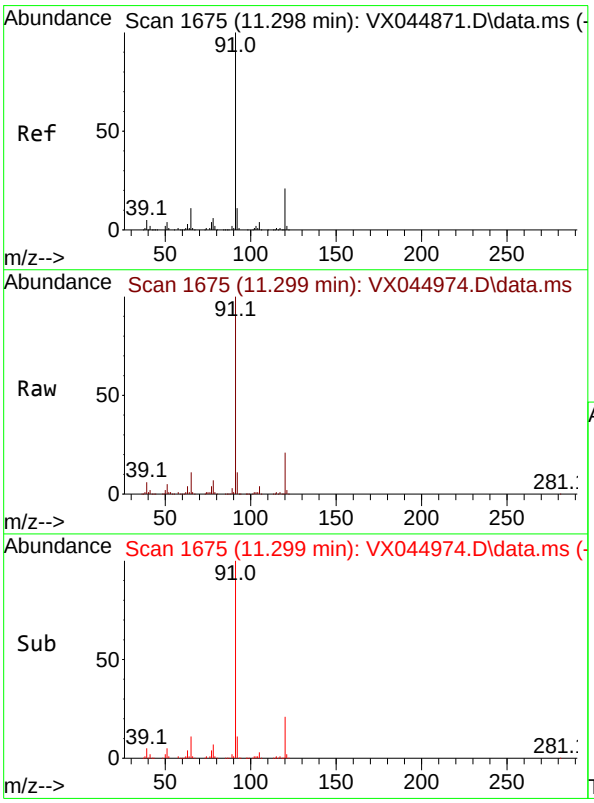
#77
Bromobenzene
Concen: 49.693 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 69109

Ion	Ratio	Lower	Upper
156	100		
77	171.6	88.4	265.3
158	95.5	48.4	145.2

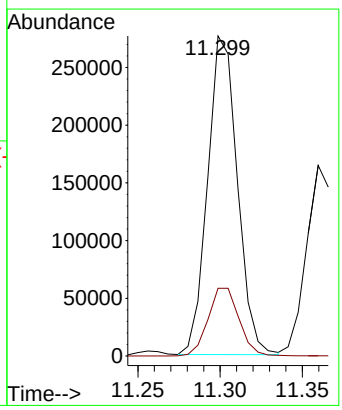


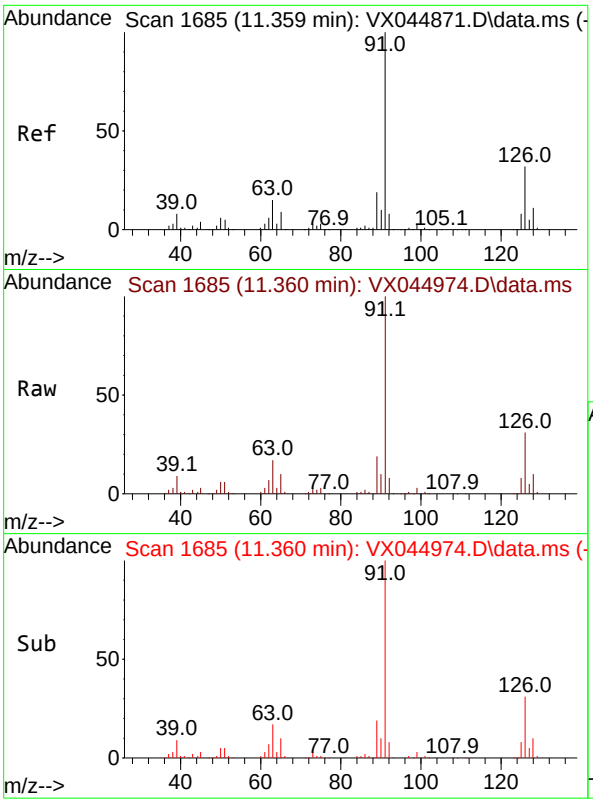


#78
n-propylbenzene
Concen: 49.081 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 91 Resp: 347506

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



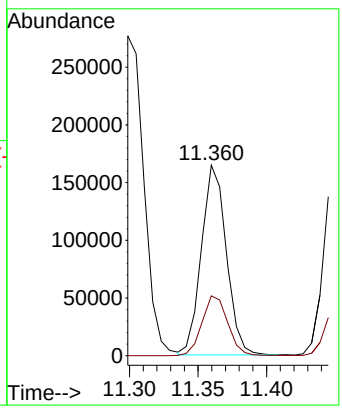


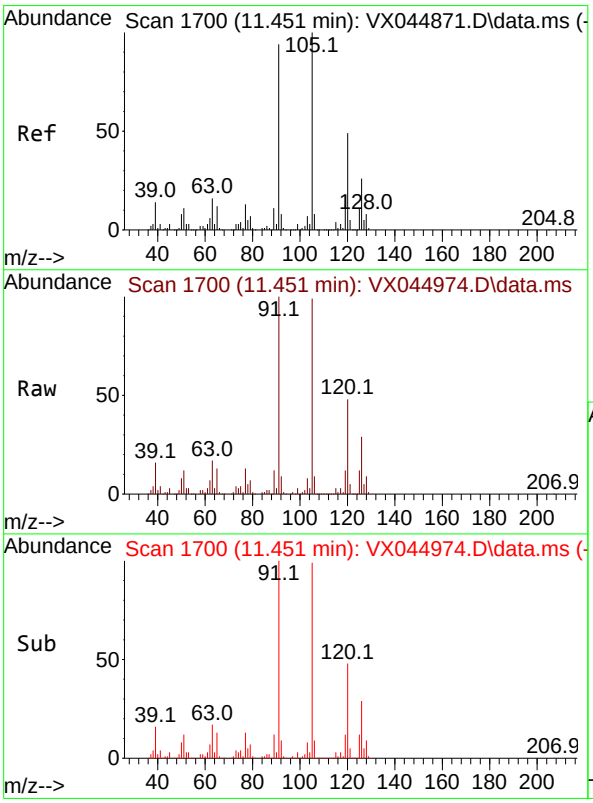
#79
2-Chlorotoluene
Concen: 47.769 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 207868

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.6

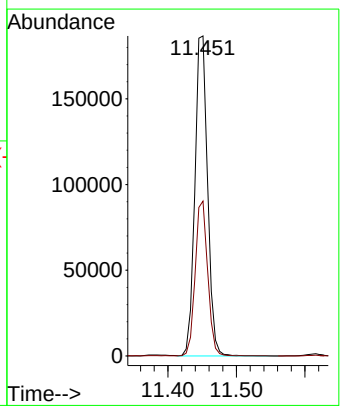


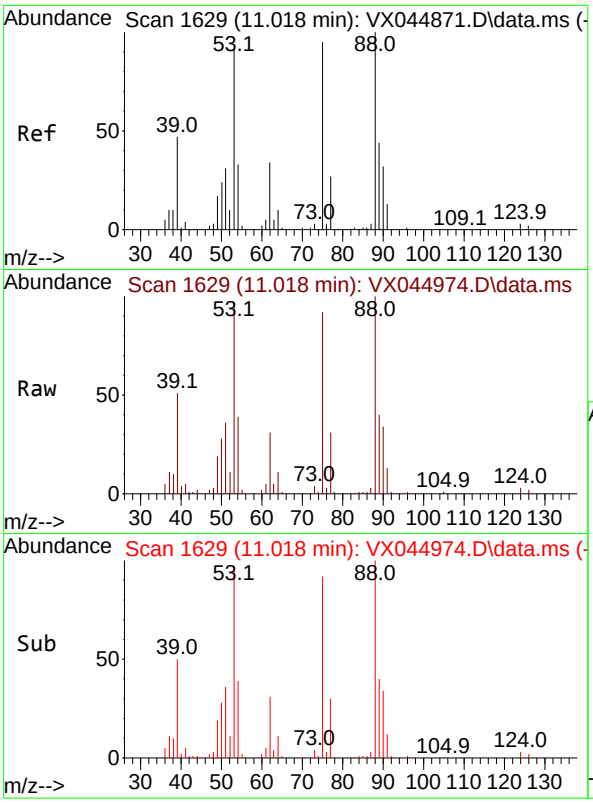


#80
1,3,5-Trimethylbenzene
Concen: 48.466 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:105 Resp: 241259

Ion	Ratio	Lower	Upper
105	100		
120	47.5	24.0	72.0



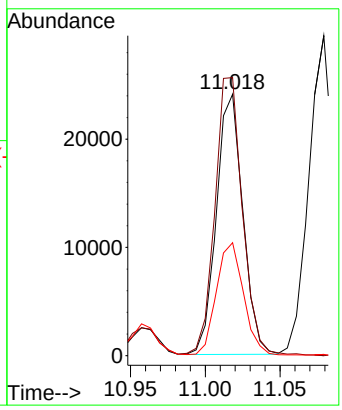


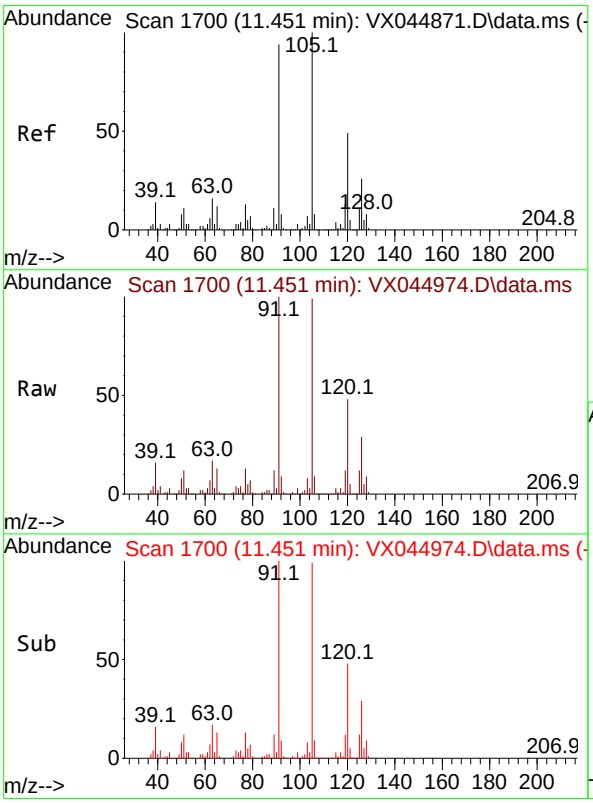
#81
trans-1,4-Dichloro-2-butene
Concen: 45.155 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 29650

Ion	Ratio	Lower	Upper
75	100		
53	111.7	78.0	117.0
89	44.3	36.6	54.8

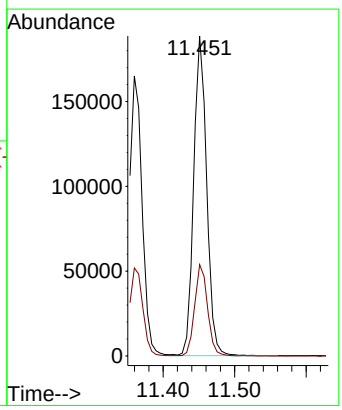


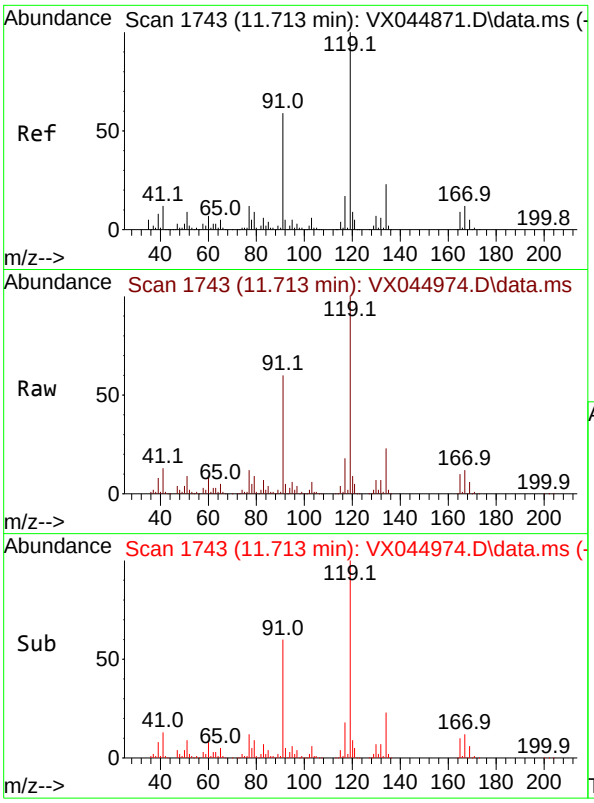


#82
4-Chlorotoluene
Concen: 49.168 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 91 Resp: 236705

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6



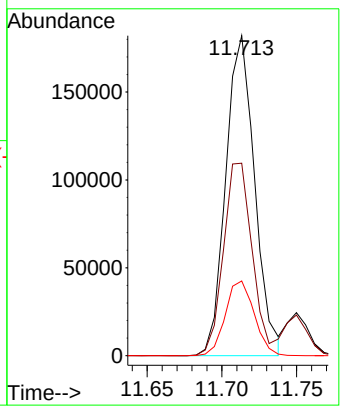


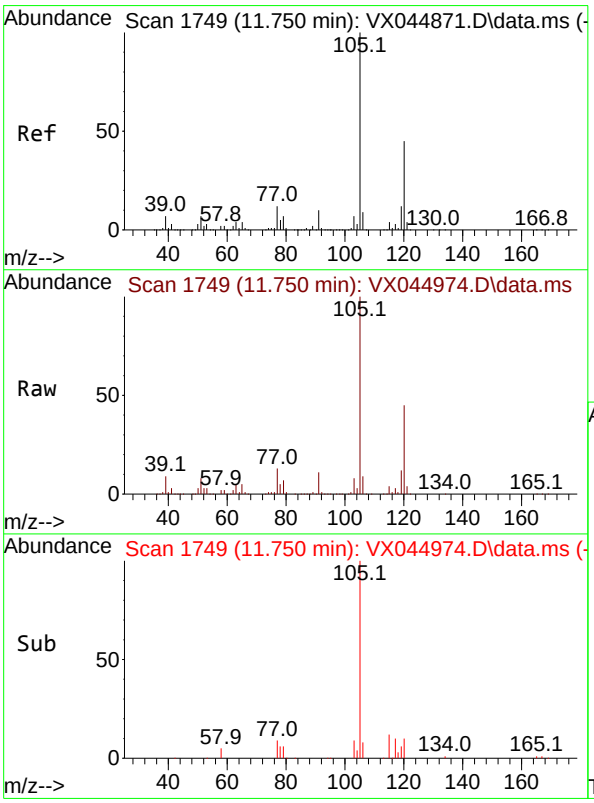
#83
tert-Butylbenzene
Concen: 48.679 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 245140

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.1	87.4
134	23.3	11.5	34.5

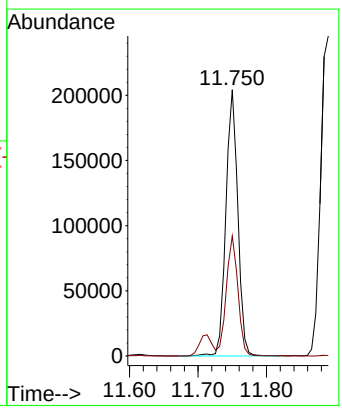


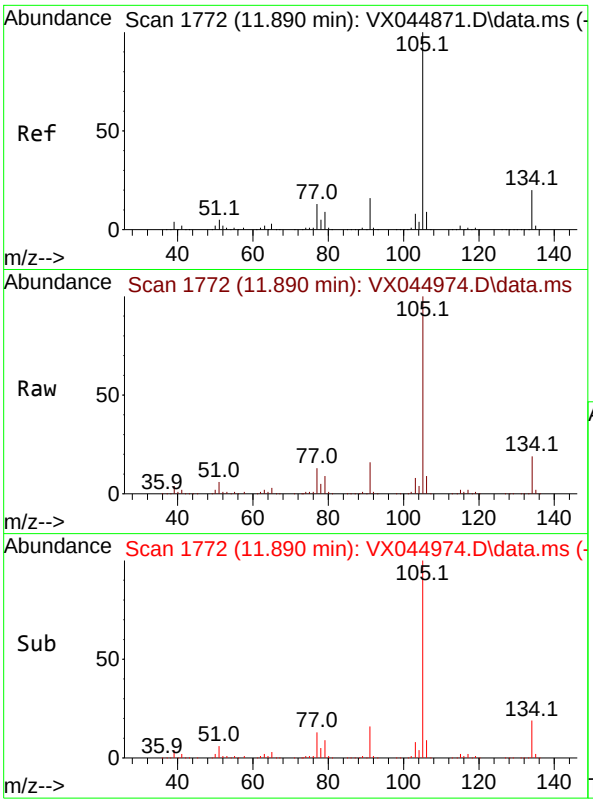


#84
1,2,4-Trimethylbenzene
Concen: 50.037 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:105 Resp: 245839

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.4	67.0



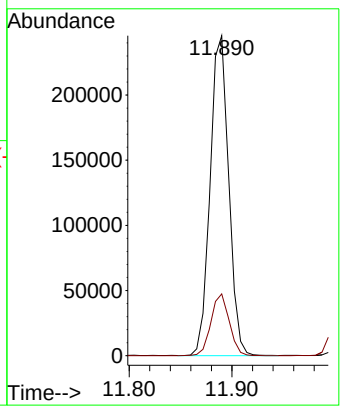


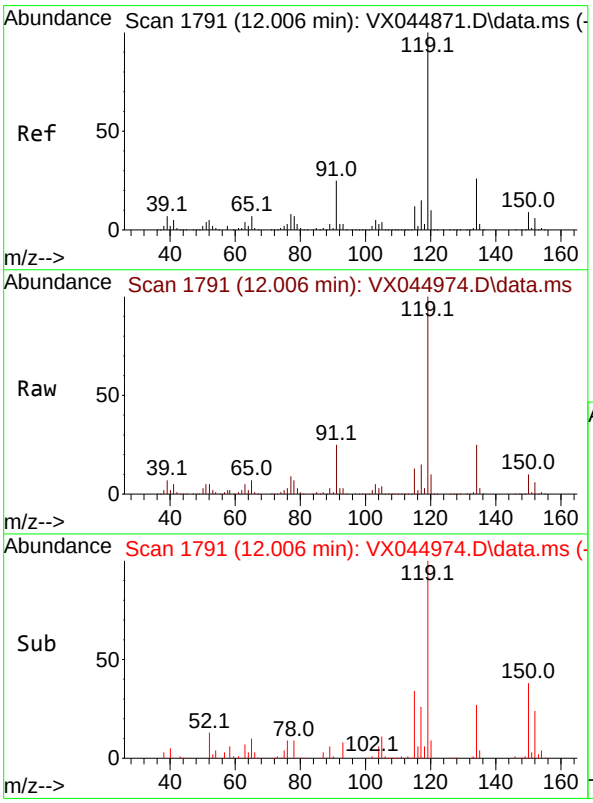
#85
sec-Butylbenzene
Concen: 49.539 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 308918

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.8	29.3

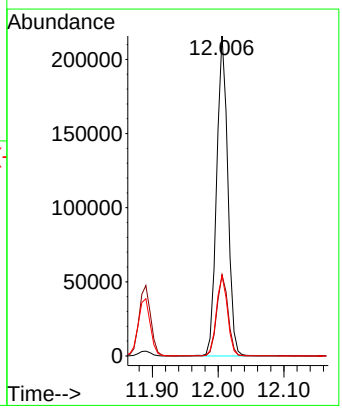


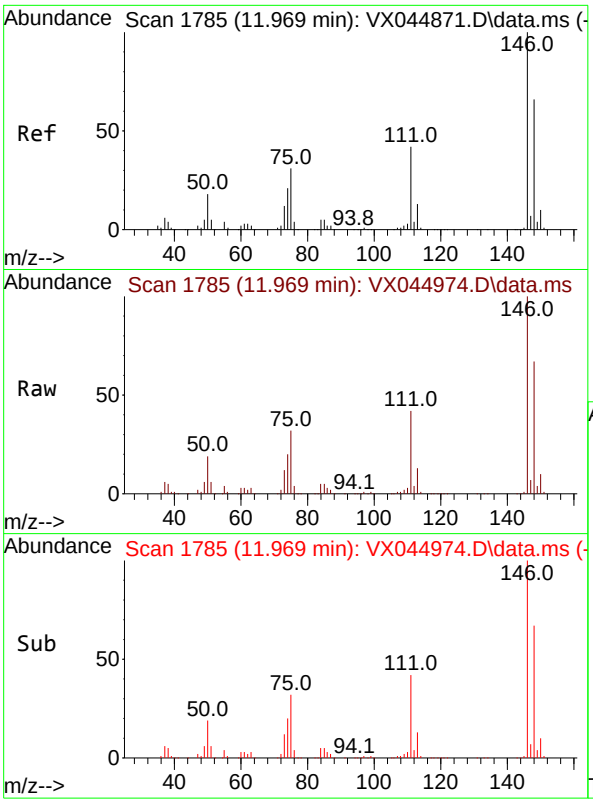


#86
p-Isopropyltoluene
Concen: 50.744 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:119 Resp: 254468

Ion	Ratio	Lower	Upper
119	100		
134	25.6	13.0	38.9
91	25.0	12.1	36.3



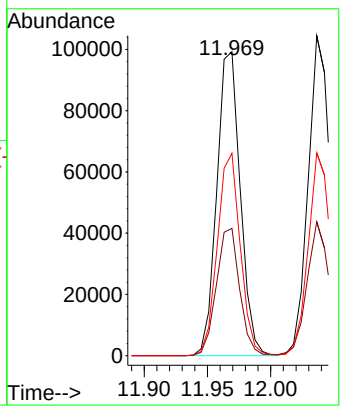


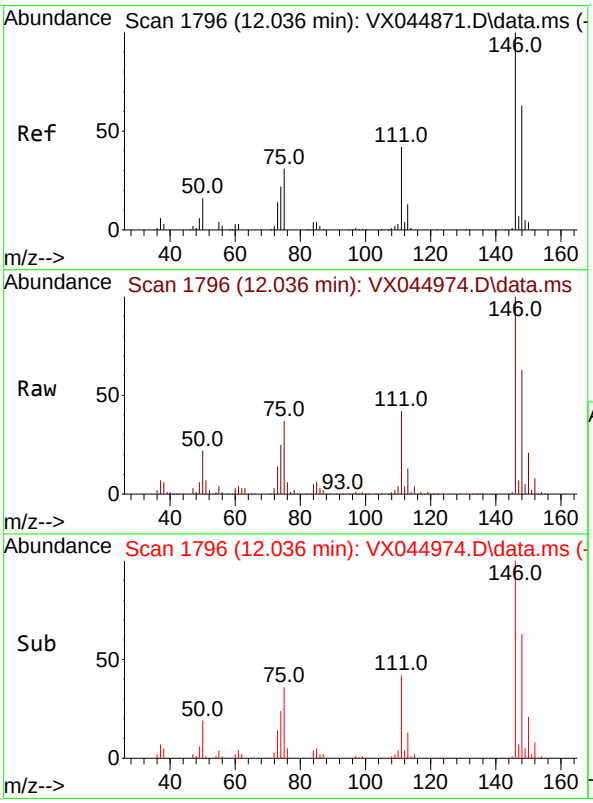
#87
1,3-Dichlorobenzene
Concen: 50.069 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 128049

Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.2	63.6
148	64.9	32.5	97.5

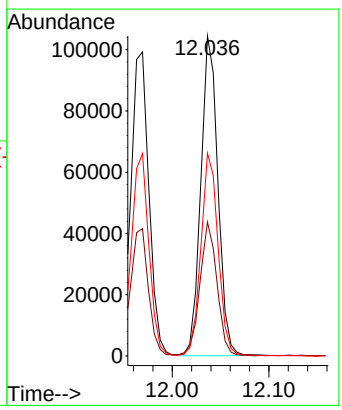


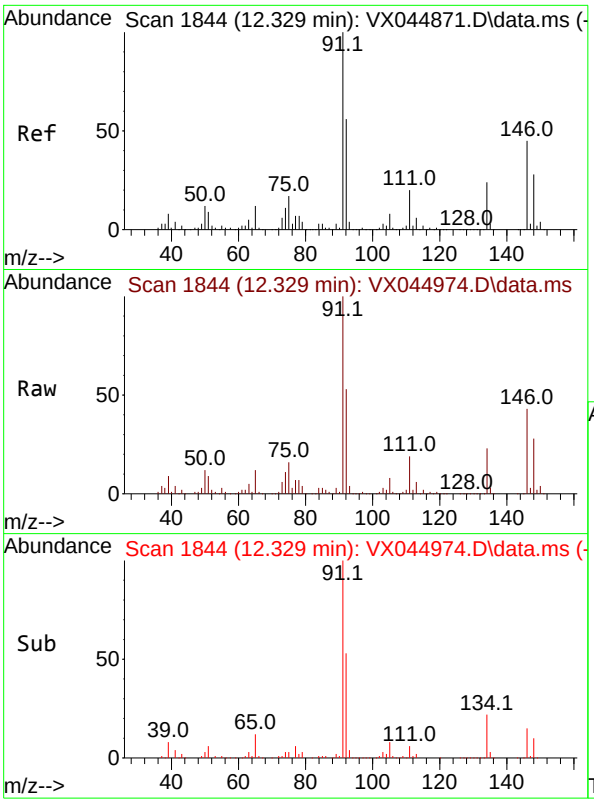


#88
1,4-Dichlorobenzene
Concen: 49.676 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:146 Resp: 128451

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.4	61.3
148	63.8	32.0	96.0



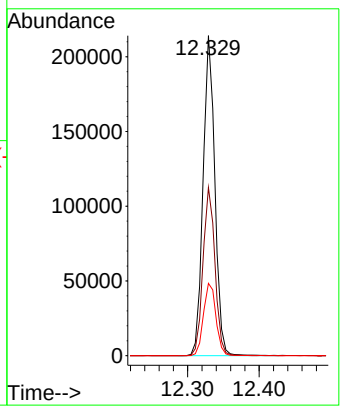


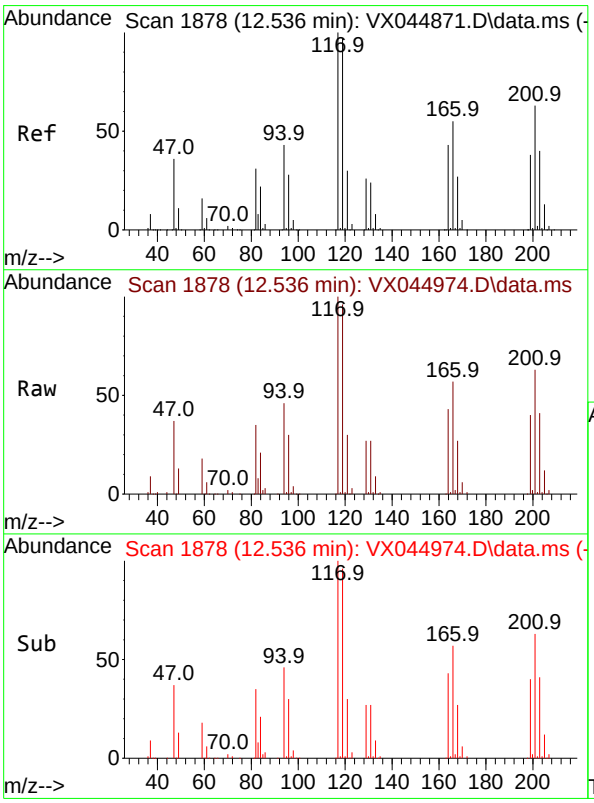
#89
n-Butylbenzene
Concen: 55.263 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 245173

Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.2	81.6
134	24.0	12.1	36.3

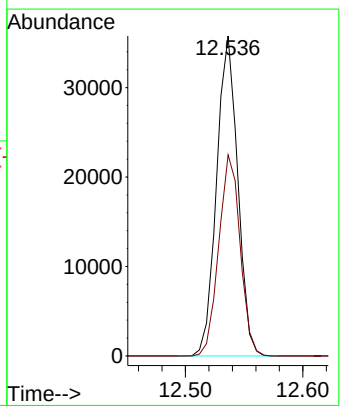


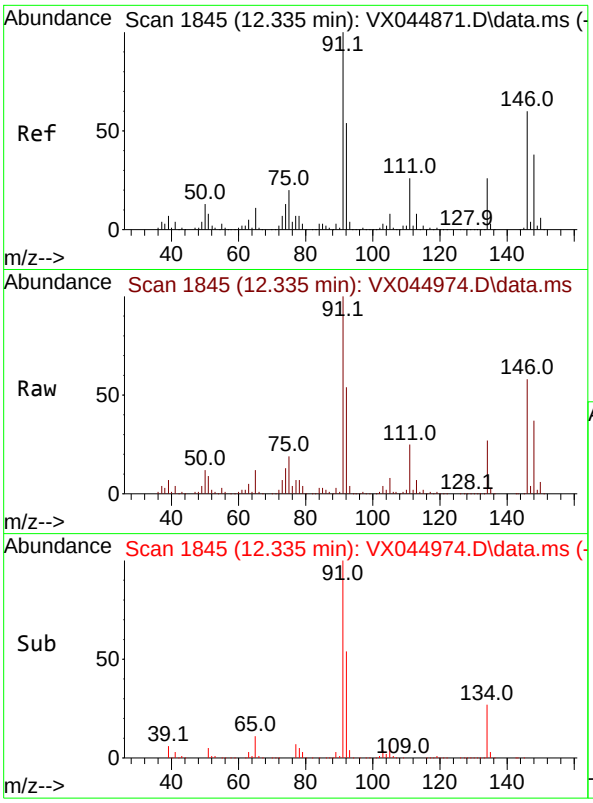


#90
Hexachloroethane
Concen: 47.620 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:117 Resp: 44714

Ion	Ratio	Lower	Upper
117	100		
201	63.7	32.5	97.5



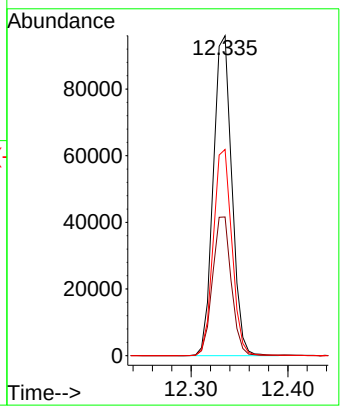


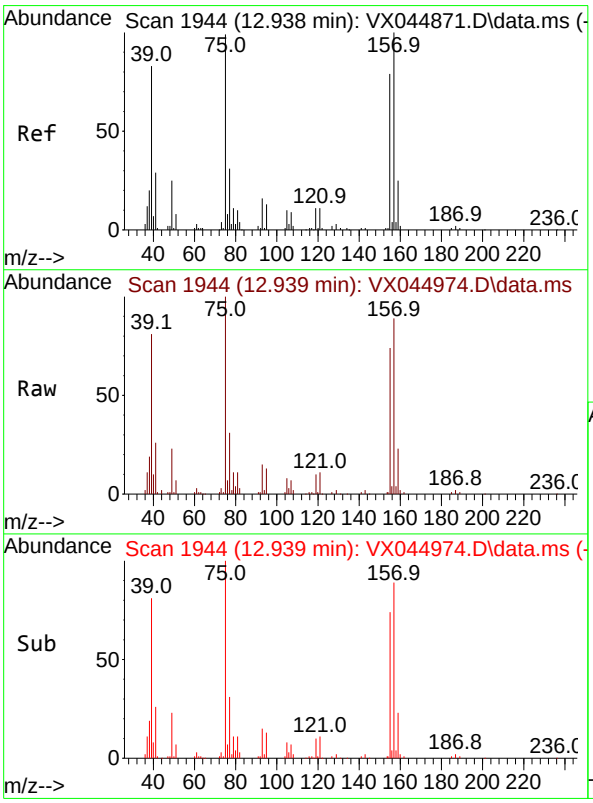
#91
1,2-Dichlorobenzene
Concen: 50.877 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 127878

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.8	65.4
148	64.8	31.9	95.9

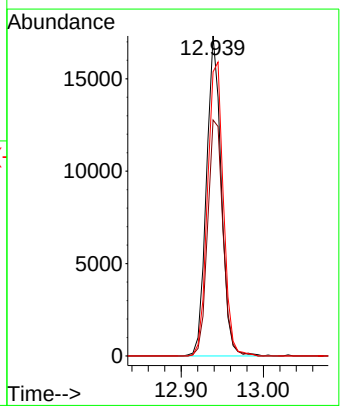


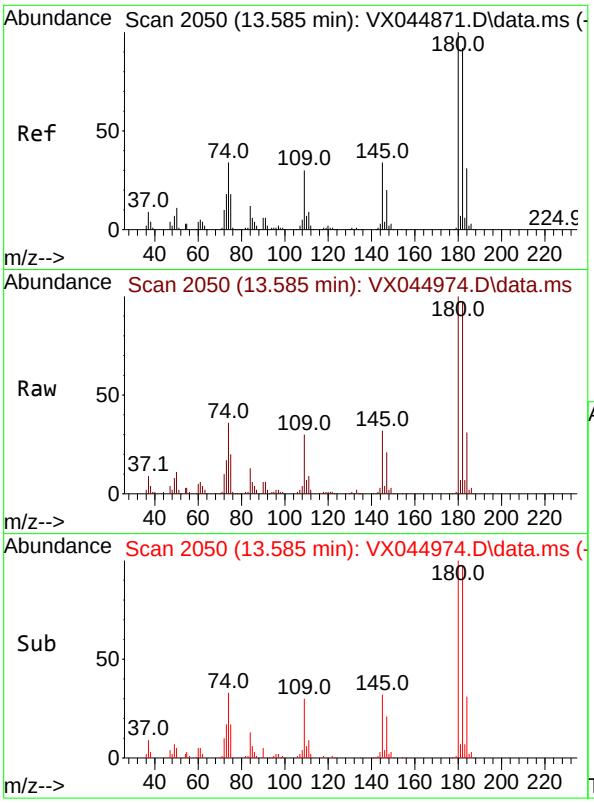


#92
1,2-Dibromo-3-Chloropropane
Concen: 56.476 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion: 75 Resp: 21727

Ion	Ratio	Lower	Upper
75	100		
155	76.7	40.5	121.4
157	97.9	51.4	154.3



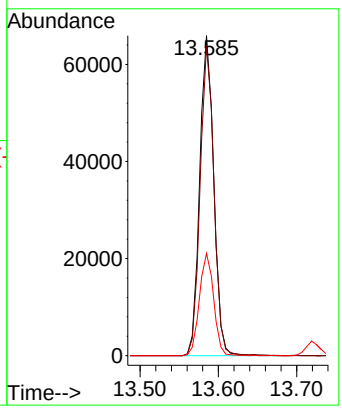


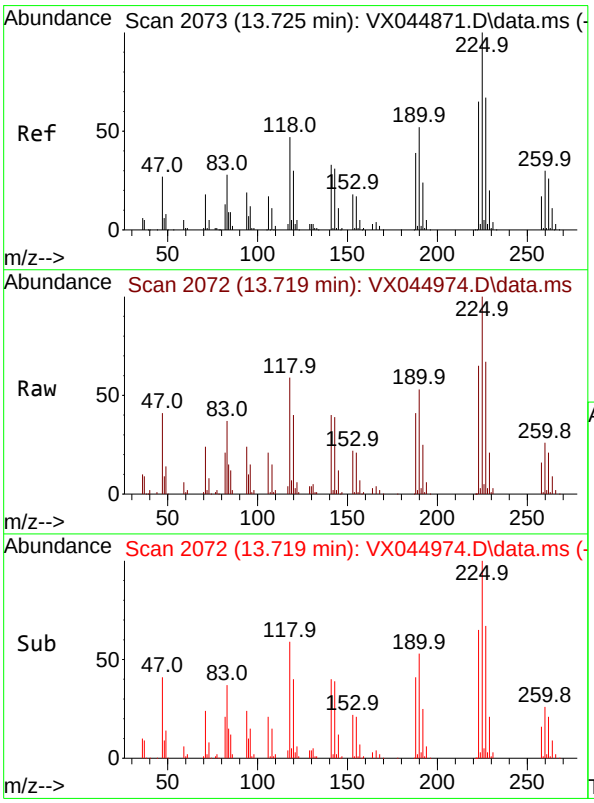
#93
1,2,4-Trichlorobenzene
Concen: 53.901 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 81980

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.6	142.8
145	32.5	16.4	49.1

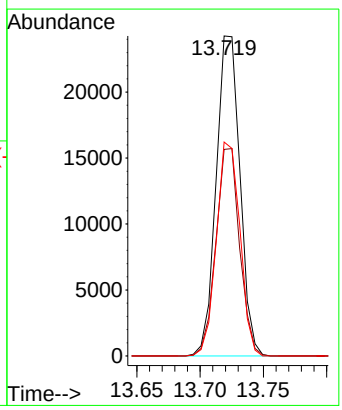


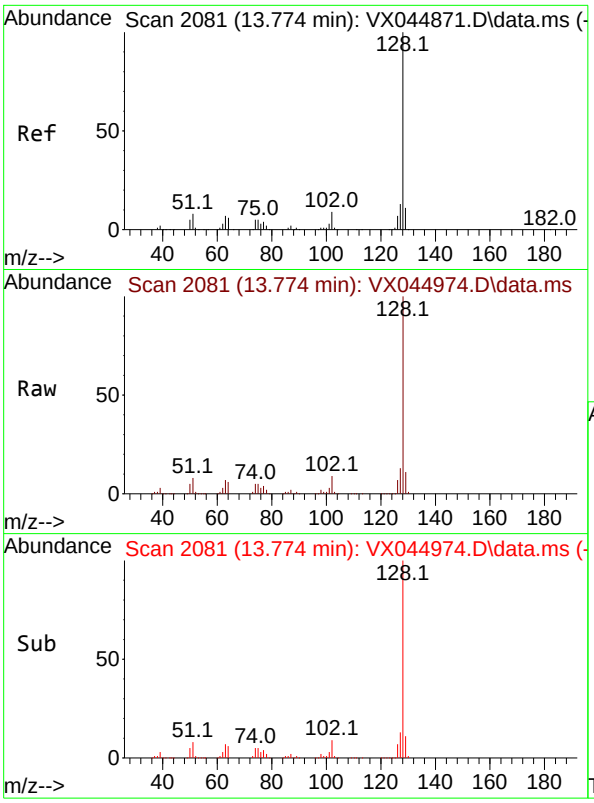


#94
Hexachlorobutadiene
Concen: 52.471 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:225 Resp: 31681

Ion	Ratio	Lower	Upper
225	100		
223	64.7	31.4	94.2
227	66.0	32.3	96.8



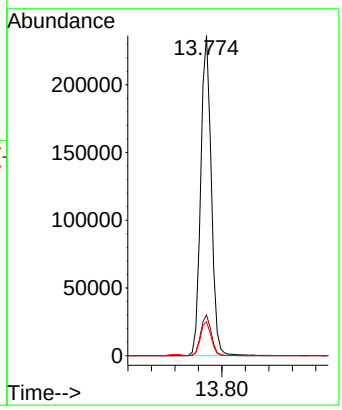


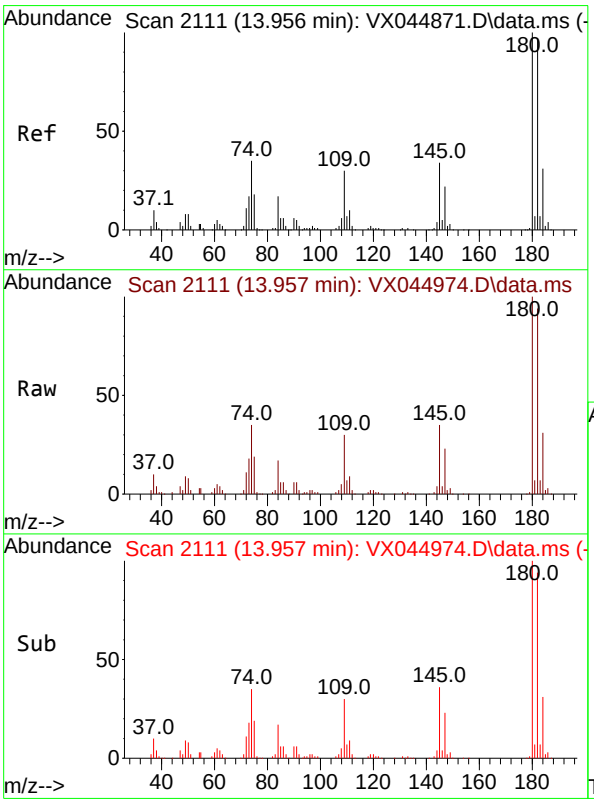
#95
Naphthalene
Concen: 53.406 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 293624

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.7	8.9	13.3





#96
1,2,3-Trichlorobenzene
Concen: 52.463 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044974.D
Acq: 14 Feb 2025 20:06

Tgt Ion:180 Resp: 80402

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.9	143.6
145	34.6	17.1	51.3