

Cover Page

Order ID : Q1903

Project ID : Mitchell School

Client : Kleinfelder

Lab Sample Number

Q1903-01
Q1903-02
Q1903-03

Client Sample Number

COMP-4
COMP-5
COMP-6

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: 5/2/2025

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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1903

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: PRADIP PRAJAPATI

Date: 05/02/2025

LAB CHRONICLE

OrderID:	Q1903	OrderDate:	4/28/2025 11:30:00 AM
Client:	Kleinfelder	Project:	Mitchell School
Contact:	Mark Warchol	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1903-01	COMP-4	SOIL	VOCMS Group1	8260D	04/25/25		04/29/25	04/28/25
Q1903-02	COMP-5	SOIL	VOCMS Group1	8260D	04/25/25		04/29/25	04/28/25
Q1903-03	COMP-6	SOIL	VOCMS Group1	8260D	04/25/25		04/29/25	04/28/25



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

Hit Summary Sheet
SW-846

SDG No.: Q1903

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
-----------	-----------	--------	-----------	---------------	---	-----	-----	-------

Client ID:

0

Total Voc :

Total Concentration:



QC SUMMARY

Surrogate Summary

SDG No.: Q1903

Client: Kleinfelder

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1903-01	COMP-4	1,2-Dichloroethane-d4	50	55.6	111	63	155
		Dibromofluoromethane	50	51.7	103	70	134
		Toluene-d8	50	48.5	97	74	123
		4-Bromofluorobenzene	50	40.6	81	38	136
Q1903-02	COMP-5	1,2-Dichloroethane-d4	50	51.3	103	63	155
		Dibromofluoromethane	50	51.1	102	70	134
		Toluene-d8	50	49.1	98	74	123
		4-Bromofluorobenzene	50	40.1	80	38	136
Q1903-03	COMP-6	1,2-Dichloroethane-d4	50	56.8	114	63	155
		Dibromofluoromethane	50	51.7	103	70	134
		Toluene-d8	50	48.5	97	74	123
		4-Bromofluorobenzene	50	40.7	81	38	136
VY0429SBL01	VY0429SBL01	1,2-Dichloroethane-d4	50	50.3	101	63	155
		Dibromofluoromethane	50	49.9	100	70	134
		Toluene-d8	50	47.6	95	74	123
		4-Bromofluorobenzene	50	56.5	113	38	136
VY0429SBS01	VY0429SBS01	1,2-Dichloroethane-d4	50	48.4	97	63	155
		Dibromofluoromethane	50	50.2	100	70	134
		Toluene-d8	50	50.9	102	74	123
		4-Bromofluorobenzene	50	49.6	99	38	136
VY0429SBSD01	VY0429SBSD01	1,2-Dichloroethane-d4	50	49.3	99	63	155
		Dibromofluoromethane	50	51.1	102	70	134
		Toluene-d8	50	51.5	103	74	123
		4-Bromofluorobenzene	50	50.5	101	38	136

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1903

Client: Kleinfelder

Analytical Method: SW8260D

Datafile : VY022048.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0429SBS01	cis-1,2-Dichloroethene	20	19.6	ug/Kg	98			82	123	
	1,1,1-Trichloroethane	20	19.9	ug/Kg	100			80	126	
	Benzene	20	20.2	ug/Kg	101			84	121	
	Trichloroethene	20	20.3	ug/Kg	102			83	122	
	Toluene	20	20.1	ug/Kg	101			83	122	
	Ethyl Benzene	20	19.4	ug/Kg	97			82	124	
	m/p-Xylenes	40	40.2	ug/Kg	101			83	124	
	o-Xylene	20	19.2	ug/Kg	96			83	123	
	Isopropylbenzene	20	19.1	ug/Kg	96			82	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1903

Client: Kleinfelder

Analytical Method: SW8260D

Datafile : VY022049.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0429SBSD01	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102	4		82	123	20
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103	3		80	126	20
	Benzene	20	20.8	ug/Kg	104	3		84	121	20
	Trichloroethene	20	21.3	ug/Kg	106	4		83	122	20
	Toluene	20	21.2	ug/Kg	106	5		83	122	20
	Ethyl Benzene	20	20.1	ug/Kg	101	4		82	124	20
	m/p-Xylenes	40	41.4	ug/Kg	104	3		83	124	20
	o-Xylene	20	20.4	ug/Kg	102	6		83	123	20
	Isopropylbenzene	20	19.9	ug/Kg	100	4		82	124	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0429SBL01

Lab Name: CHEMTECH

Contract: POWE02

Lab Code: CHEM Case No.: Q1903

SAS No.: Q1903 SDG NO.: Q1903

Lab File ID: VY022047.D

Lab Sample ID: VY0429SBL01

Date Analyzed: 04/29/2025

Time Analyzed: 10:00

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0429SBS01	VY0429SBS01	VY022048.D	04/29/2025
VY0429SBSD01	VY0429SBSD01	VY022049.D	04/29/2025
COMP-4	Q1903-01	VY022061.D	04/29/2025
COMP-5	Q1903-02	VY022062.D	04/29/2025
COMP-6	Q1903-03	VY022063.D	04/29/2025

COMMENTS: _____



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: POWE02
Lab Code: CHEM Case No.: Q1903 SAS No.: Q1903 SDG NO.: Q1903
Lab File ID: VY021952.D BFB Injection Date: 04/22/2025
Instrument ID: MSVOA_Y BFB Injection Time: 11:33
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	49.7
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	1.5 (1.7) 1
174	50.0 - 100.0% of mass 95	88.4
175	5.0 - 9.0% of mass 174	7.1 (8) 1
176	95.0 - 101.0% of mass 174	84.9 (96.1) 1
177	5.0 - 9.0% of mass 176	5.5 (6.4) 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
VSTDIC005	VSTDIC005	VY021953.D	04/22/2025	13:39
VSTDIC010	VSTDIC010	VY021954.D	04/22/2025	14:44
VSTDIC020	VSTDIC020	VY021955.D	04/22/2025	15:07
VSTDIC050	VSTDIC050	VY021956.D	04/22/2025	15:29
VSTDIC100	VSTDIC100	VY021957.D	04/22/2025	15:52
VSTDIC150	VSTDIC150	VY021958.D	04/22/2025	16:15



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: POWE02
Lab Code: CHEM Case No.: Q1903 SAS No.: Q1903 SDG NO.: Q1903
Lab File ID: VY022045.D BFB Injection Date: 04/29/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:20
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.7
75	30.0 - 60.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.5 (1.6) 1
174	50.0 - 100.0% of mass 95	92.9
175	5.0 - 9.0% of mass 174	7 (7.5) 1
176	95.0 - 101.0% of mass 174	88.9 (95.7) 1
177	5.0 - 9.0% of mass 176	5.8 (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	VY022046.D	04/29/2025	09:28
VY0429SBL01	VY0429SBL01	VY022047.D	04/29/2025	10:00
VY0429SBS01	VY0429SBS01	VY022048.D	04/29/2025	10:31
VY0429SBSD01	VY0429SBSD01	VY022049.D	04/29/2025	10:53
COMP-4	Q1903-01	VY022061.D	04/29/2025	17:03
COMP-5	Q1903-02	VY022062.D	04/29/2025	17:27
COMP-6	Q1903-03	VY022063.D	04/29/2025	17:50

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
 Lab Code: CHEM Case No.: Q1903 SAS No.: Q1903 SDG NO.: Q1903
 Lab File ID: VY022046.D Date Analyzed: 04/29/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:28
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	330337	7.71	485397	8.62	453549	11.42
UPPER LIMIT	660674	8.207	970794	9.116	907098	11.92
LOWER LIMIT	165169	7.207	242699	8.116	226775	10.92
EPA SAMPLE NO.						
COMP-4	295057	7.71	563717	8.62	508046	11.41
COMP-5	293981	7.71	545754	8.62	490384	11.41
COMP-6	287202	7.71	548094	8.62	500953	11.41
VY0429SBL01	323132	7.71	602161	8.62	529726	11.42
VY0429SBS01	295160	7.71	455592	8.62	411306	11.41
VY0429SBSD01	291903	7.71	448136	8.62	409949	11.41

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
 Lab Code: CHEM Case No.: Q1903 SAS No.: Q1903 SDG NO.: Q1903
 Lab File ID: VY022046.D Date Analyzed: 04/29/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:28
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	245911	13.346				
UPPER LIMIT	491822	13.846				
LOWER LIMIT	122956	12.846				
EPA SAMPLE NO.						
COMP-4	196340	13.35				
COMP-5	184808	13.35				
COMP-6	192908	13.35				
VY0429SBL01	203699	13.35				
VY0429SBS01	220609	13.35				
VY0429SBSD01	218010	13.35				

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	04/25/25
Project:	Mitchell School	Date Received:	04/28/25
Client Sample ID:	COMP-4	SDG No.:	Q1903
Lab Sample ID:	Q1903-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83.3
Sample Wt/Vol:	5.95 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022061.D	1		04/29/25 17:03	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.76	U	0.76	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.94	U	0.94	5.00	ug/Kg
71-43-2	Benzene	0.80	U	0.80	5.00	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.00	ug/Kg
108-88-3	Toluene	0.79	U	0.79	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.00	ug/Kg
1330-20-7	Total Xylenes	2.13	U	2.13	15.1	ug/Kg
98-82-8	Isopropylbenzene	0.79	U	0.79	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.6		63 - 155	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	48.4		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.6		38 - 136	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	295000	7.707			
540-36-3	1,4-Difluorobenzene	564000	8.616			
3114-55-4	Chlorobenzene-d5	508000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	196000	13.346			

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_Y\Data\VY042925\
 Data File : VY022061.D
 Acq On : 29 Apr 2025 17:03
 Operator : SY/MD
 Sample : Q1903-01
 Misc : 5.95g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 COMP-4

Quant Time: Apr 30 01:35:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

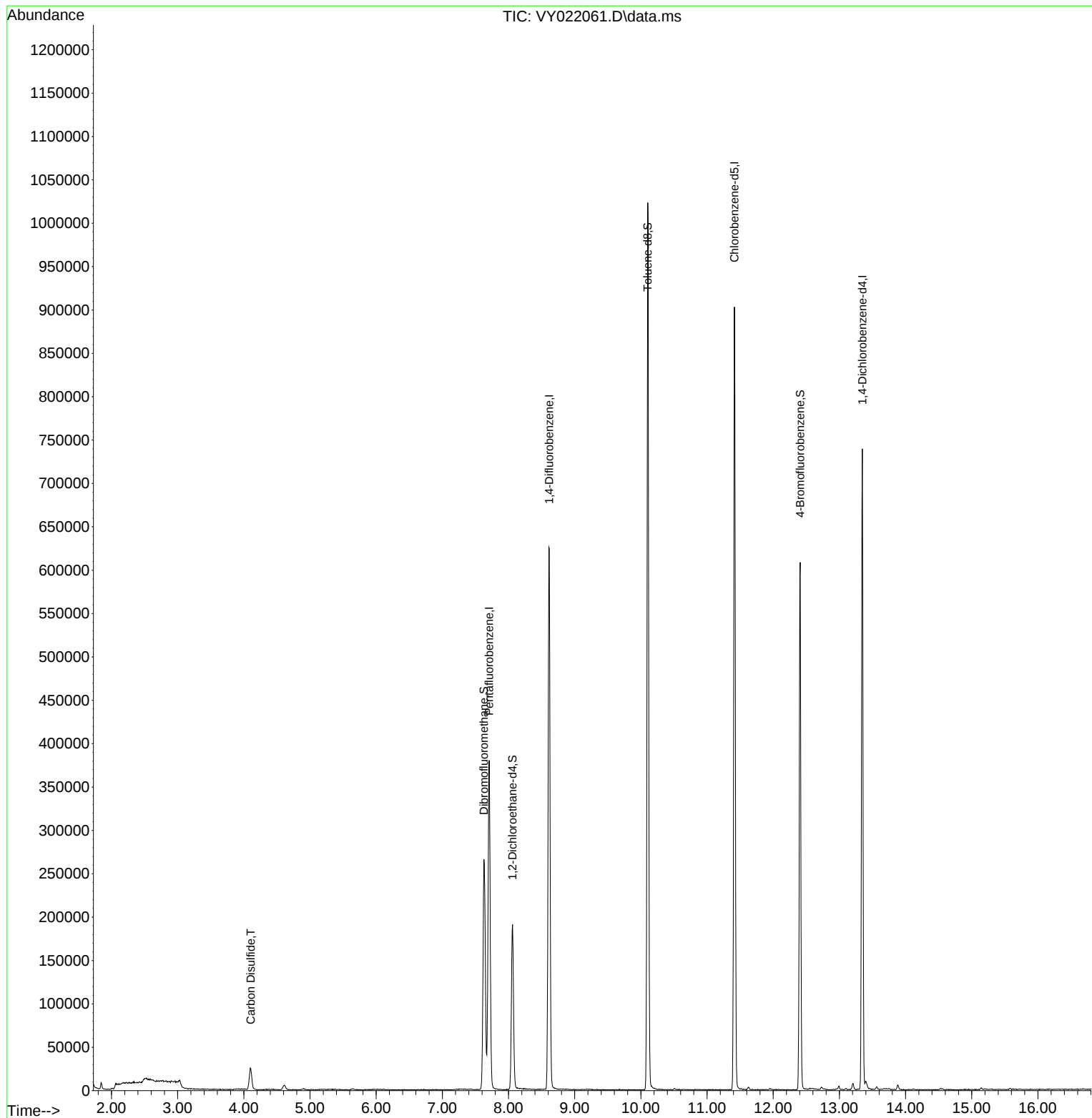
Internal Standards						
1) Pentafluorobenzene	7.707	168	295057	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	563717	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	508046	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	196340	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151548	55.606	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	111.220%
35) Dibromofluoromethane	7.628	113	192539	51.699	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.400%
50) Toluene-d8	10.103	98	680240	48.449	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.900%
62) 4-Bromofluorobenzene	12.408	95	191764	40.572	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	81.140%
Target Compounds						Qvalue
17) Carbon Disulfide	4.104	76	51995	5.560	ug/l	98

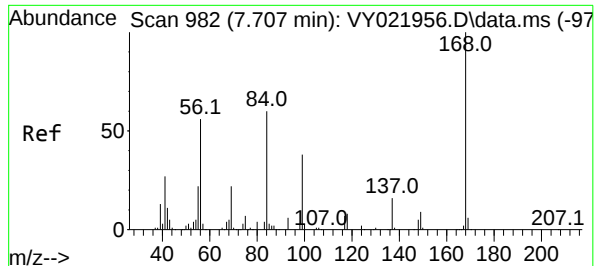
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022061.D
Acq On : 29 Apr 2025 17:03
Operator : SY/MD
Sample : Q1903-01
Misc : 5.95g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
COMP-4

Quant Time: Apr 30 01:35:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

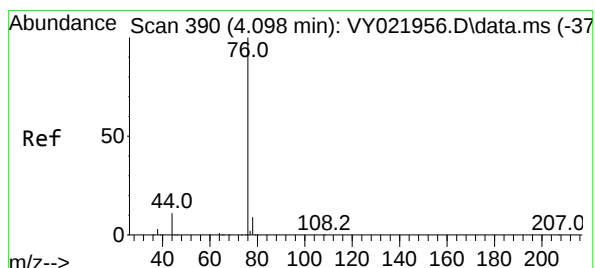
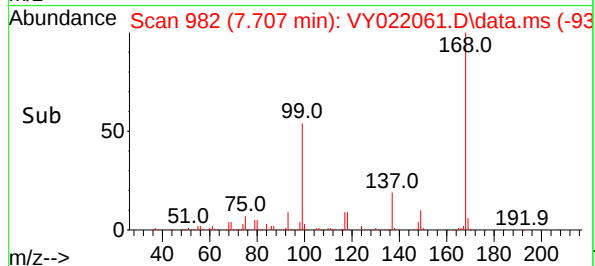
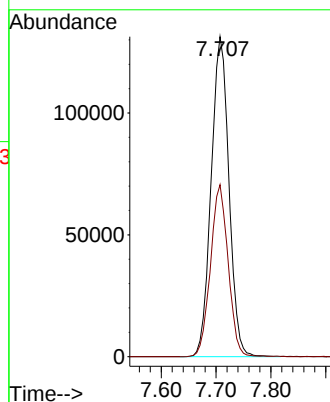
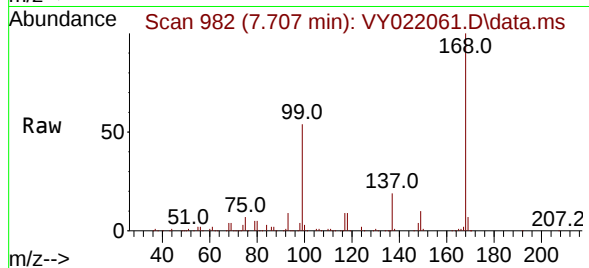




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022061.D
Acq: 29 Apr 2025 17:03

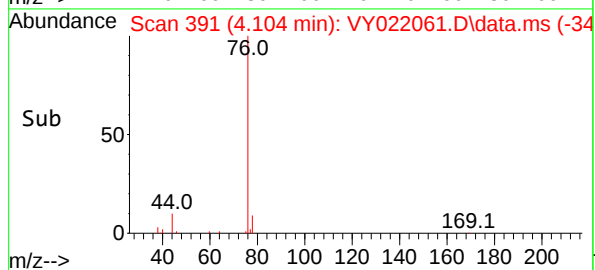
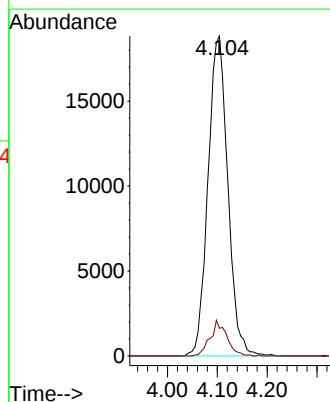
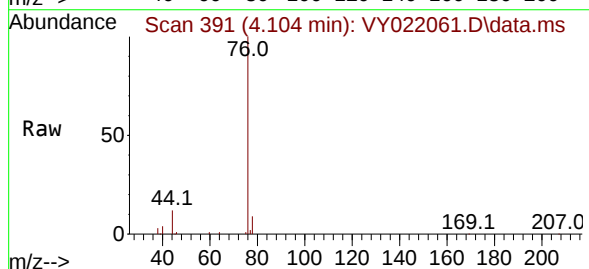
Instrument :
MSVOA_Y
ClientSampleId :
COMP-4

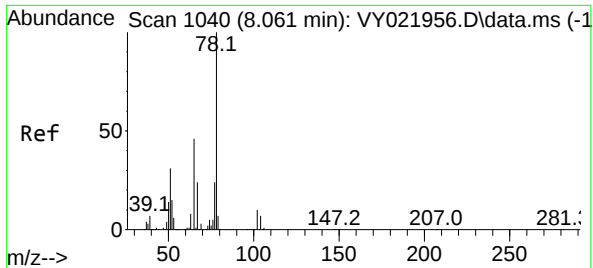
Tgt Ion:168 Resp: 295057
Ion Ratio Lower Upper
168 100
99 53.8 43.1 64.7



#17
Carbon Disulfide
Concen: 5.560 ug/l
RT: 4.104 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY022061.D
Acq: 29 Apr 2025 17:03

Tgt Ion: 76 Resp: 51995
Ion Ratio Lower Upper
76 100
78 8.7 7.6 11.4





#33

1,2-Dichloroethane-d4

Concen: 55.606 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. -0.000 min

Lab File: VY022061.D

Acq: 29 Apr 2025 17:03

Instrument :

MSVOA_Y

ClientSampleId :

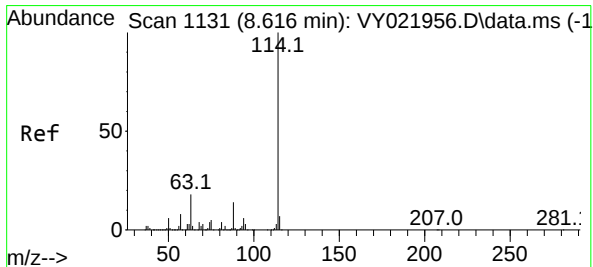
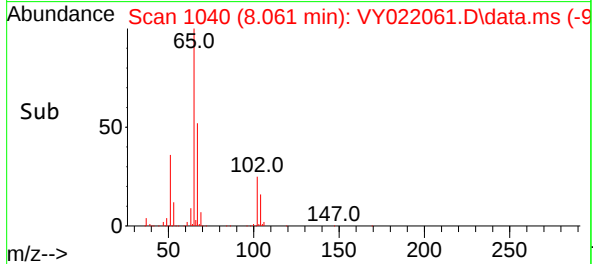
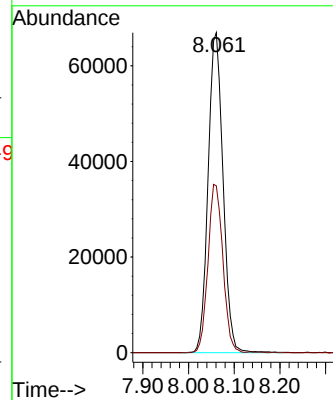
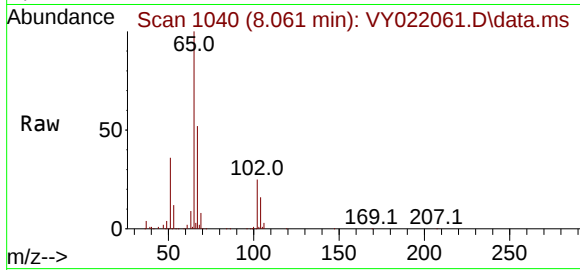
COMP-4

Tgt Ion: 65 Resp: 151548

Ion Ratio Lower Upper

65 100

67 52.5 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022061.D

Acq: 29 Apr 2025 17:03

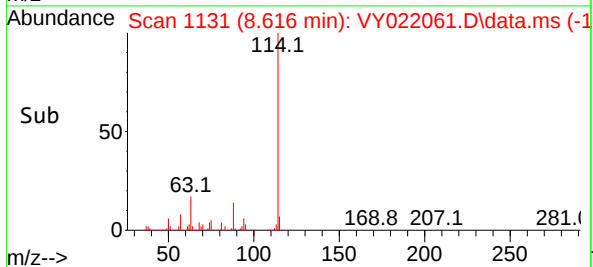
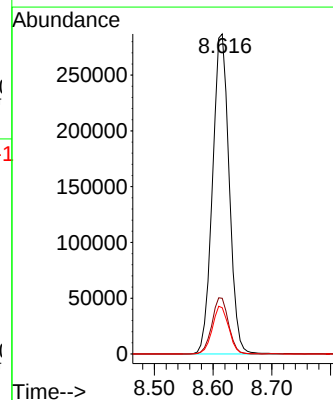
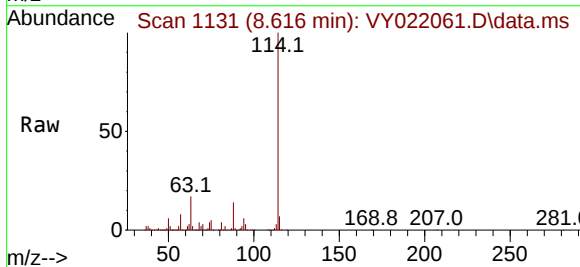
Tgt Ion: 114 Resp: 563717

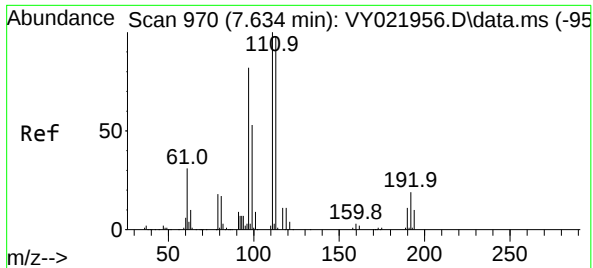
Ion Ratio Lower Upper

114 100

63 17.4 0.0 35.4

88 14.5 0.0 28.2





#35

Dibromofluoromethane

Concen: 51.699 ug/l

RT: 7.628 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022061.D

Acq: 29 Apr 2025 17:03

Instrument :

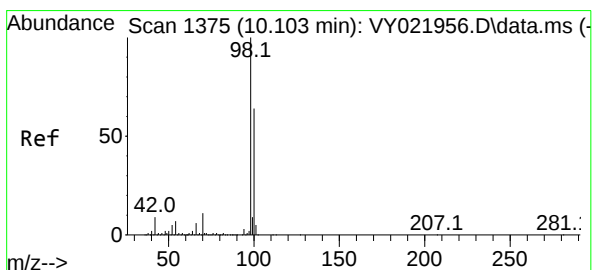
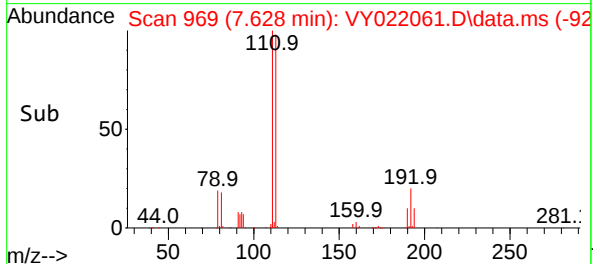
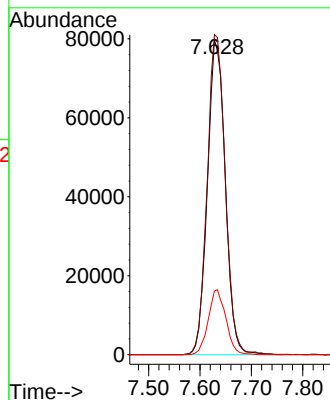
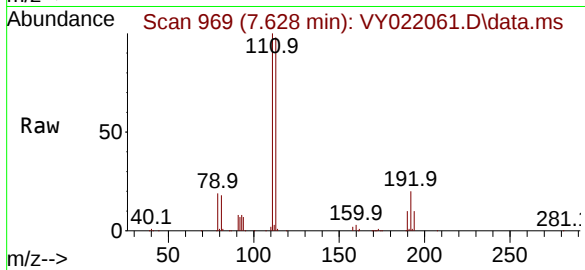
MSVOA_Y

ClientSampleId :

COMP-4

Tgt Ion:113 Resp: 192539

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.8	122.8
192	20.3	15.6	23.4



#50

Toluene-d8

Concen: 48.449 ug/l

RT: 10.103 min Scan# 1375

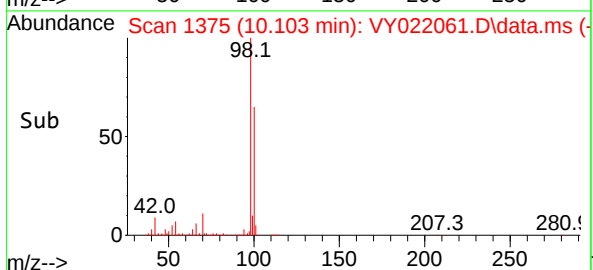
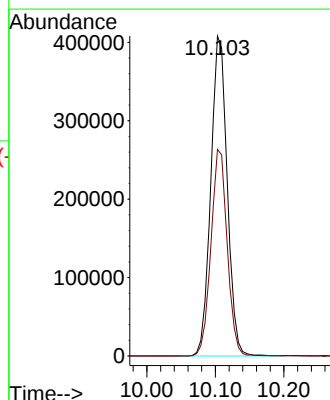
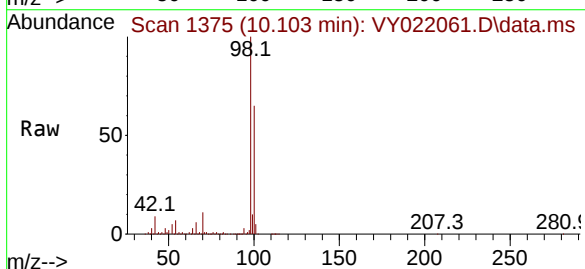
Delta R.T. -0.000 min

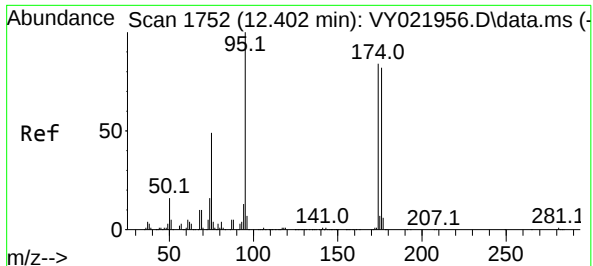
Lab File: VY022061.D

Acq: 29 Apr 2025 17:03

Tgt Ion: 98 Resp: 680240

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4

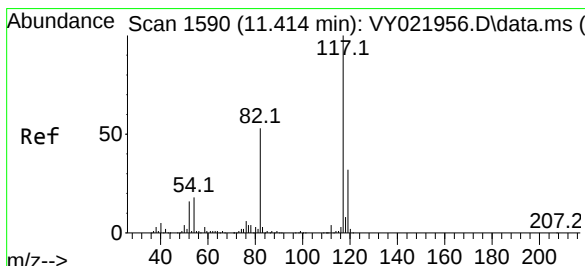
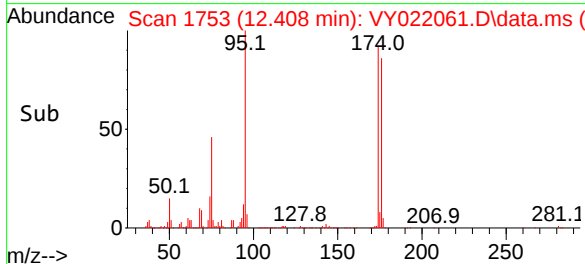
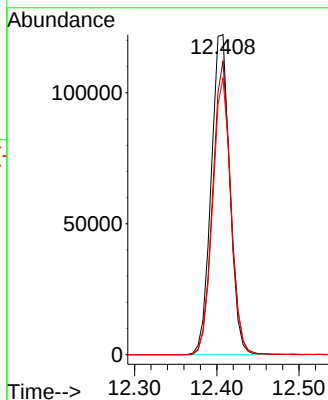
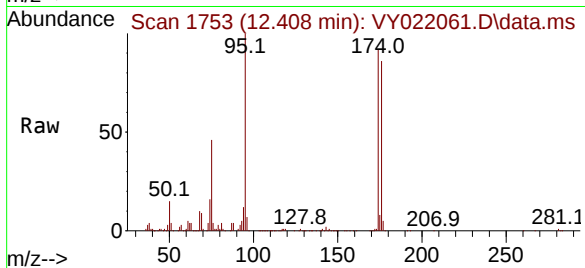




#62
4-Bromofluorobenzene
Concen: 40.572 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022061.D
Acq: 29 Apr 2025 17:03

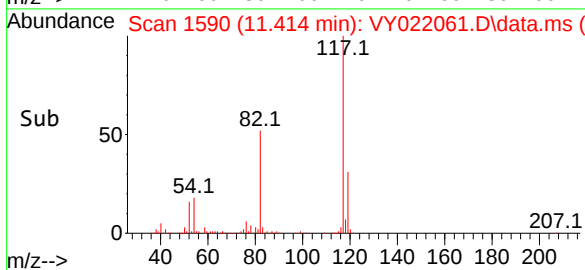
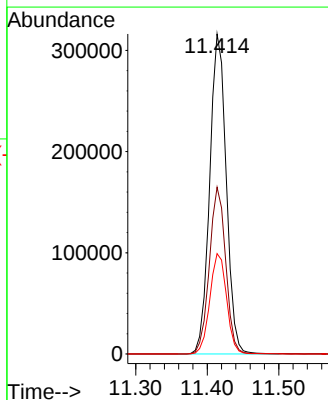
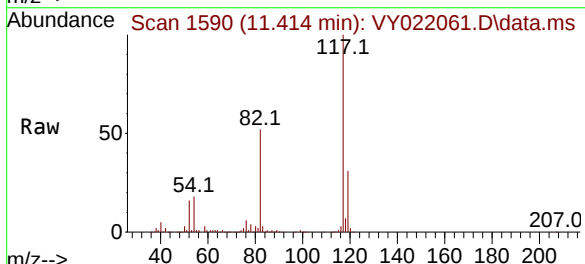
Instrument :
MSVOA_Y
ClientSampleId :
COMP-4

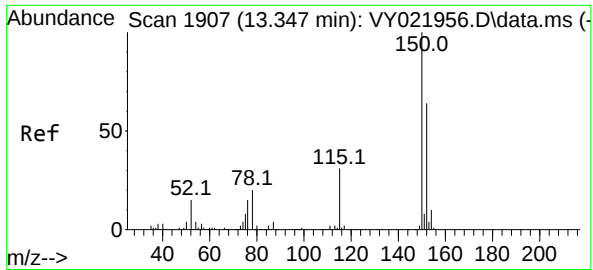
Tgt Ion: 95 Resp: 191764
Ion Ratio Lower Upper
95 100
174 89.2 0.0 179.0
176 85.1 0.0 171.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY022061.D
Acq: 29 Apr 2025 17:03

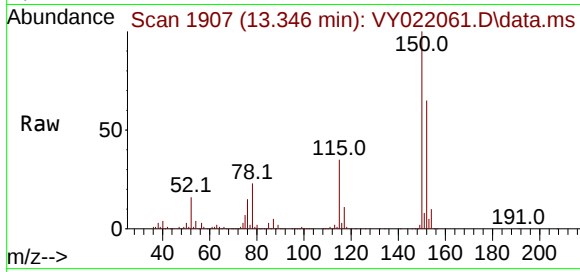
Tgt Ion: 117 Resp: 508046
Ion Ratio Lower Upper
117 100
82 52.1 42.1 63.1
119 31.3 25.7 38.5



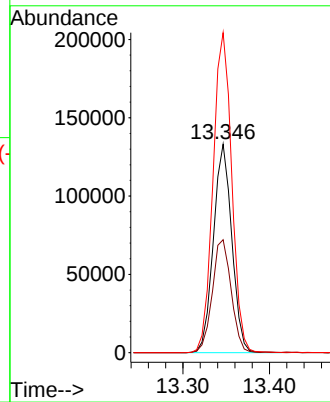
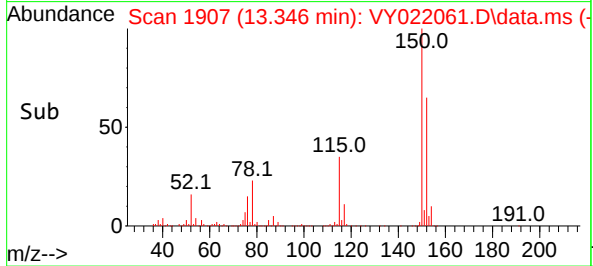


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022061.D
Acq: 29 Apr 2025 17:03

Instrument :
MSVOA_Y
ClientSampleId :
COMP-4



Tgt Ion:152 Resp: 196340
Ion Ratio Lower Upper
152 100
115 55.8 28.0 84.0
150 156.1 0.0 345.6



Report of Analysis

Client:	Kleinfelder	Date Collected:	04/25/25
Project:	Mitchell School	Date Received:	04/28/25
Client Sample ID:	COMP-5	SDG No.:	Q1903
Lab Sample ID:	Q1903-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.9
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOCMS Group1
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022062.D	1		04/29/25 17:27	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.95	U	0.95	6.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	6.30	ug/Kg
71-43-2	Benzene	1.00	U	1.00	6.30	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.30	ug/Kg
108-88-3	Toluene	0.99	U	0.99	6.30	ug/Kg
100-41-4	Ethyl Benzene	0.85	U	0.85	6.30	ug/Kg
1330-20-7	Total Xylenes	2.60	U	2.60	19.0	ug/Kg
98-82-8	Isopropylbenzene	0.99	U	0.99	6.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.1		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.1		38 - 136	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	294000	7.707			
540-36-3	1,4-Difluorobenzene	546000	8.616			
3114-55-4	Chlorobenzene-d5	490000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	185000	13.346			

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_Y\Data\VY042925\
 Data File : VY022062.D
 Acq On : 29 Apr 2025 17:27
 Operator : SY/MD
 Sample : Q1903-02
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 COMP-5

Quant Time: Apr 30 01:35:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

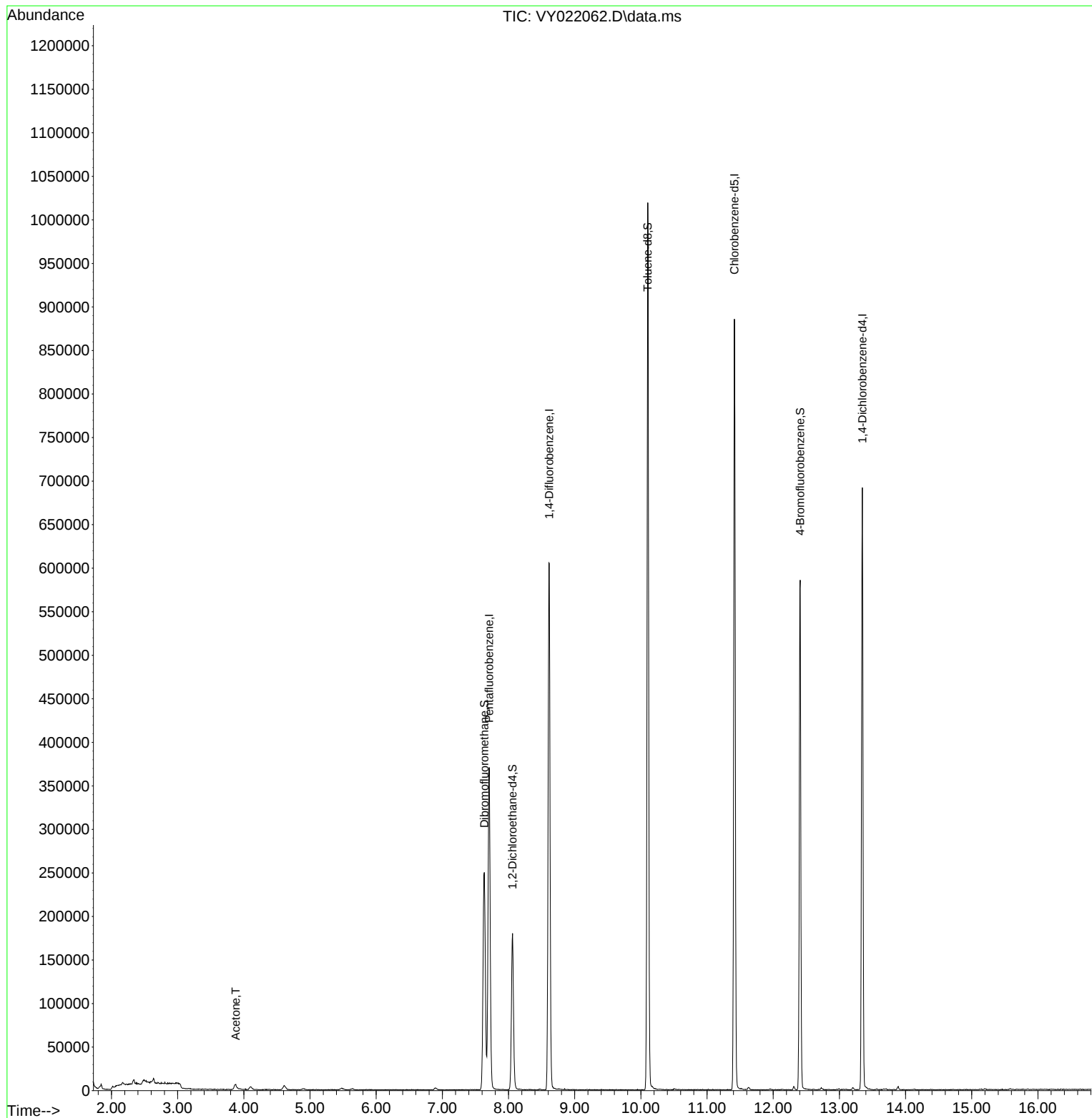
Internal Standards						
1) Pentafluorobenzene	7.707	168	293981	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	545754	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	490384	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	184808	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	139187	51.257	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.520%	
35) Dibromofluoromethane	7.634	113	184342	51.127	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.260%	
50) Toluene-d8	10.103	98	667552	49.110	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.220%	
62) 4-Bromofluorobenzene	12.408	95	183504	40.102	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 80.200%	
Target Compounds						Qvalue
16) Acetone	3.879	43	10855	10.038	ug/l	90

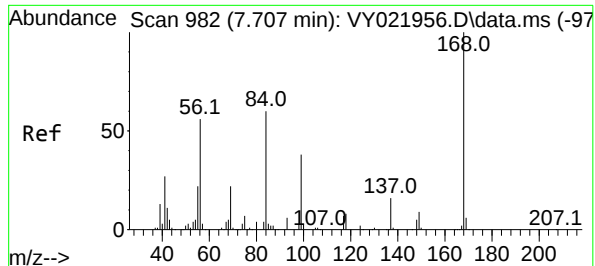
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022062.D
Acq On : 29 Apr 2025 17:27
Operator : SY/MD
Sample : Q1903-02
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
COMP-5

Quant Time: Apr 30 01:35:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

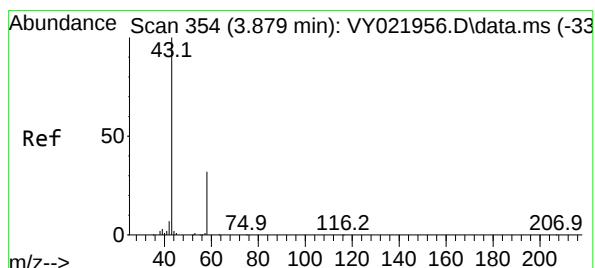
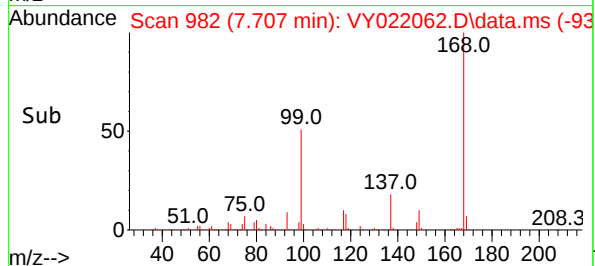
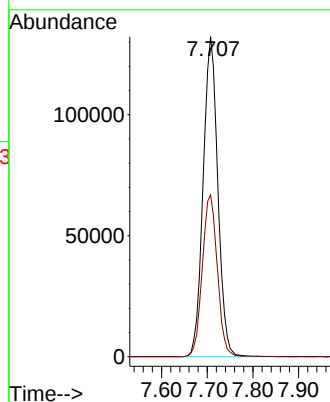
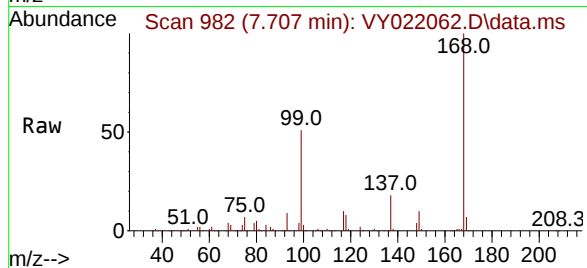




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022062.D
Acq: 29 Apr 2025 17:27

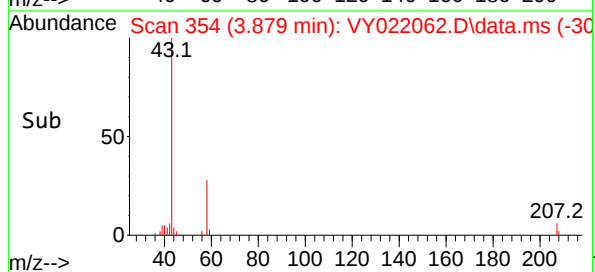
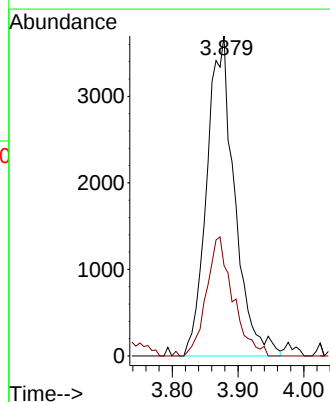
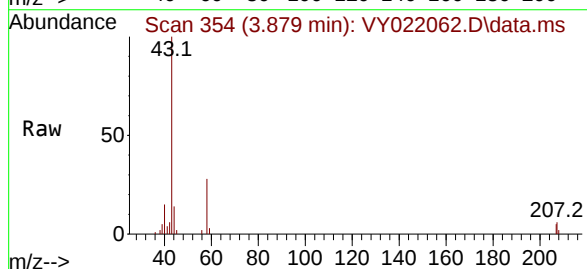
Instrument :
MSVOA_Y
ClientSampleId :
COMP-5

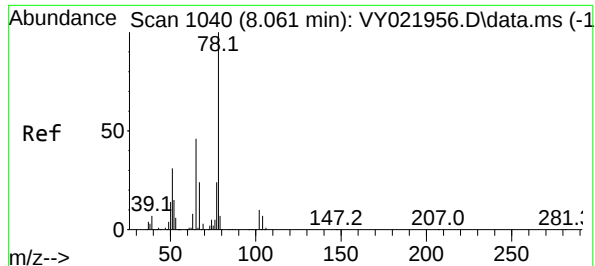
Tgt Ion:168 Resp: 293981
Ion Ratio Lower Upper
168 100
99 50.6 43.1 64.7



#16
Acetone
Concen: 10.038 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.000 min
Lab File: VY022062.D
Acq: 29 Apr 2025 17:27

Tgt Ion: 43 Resp: 10855
Ion Ratio Lower Upper
43 100
58 28.3 27.0 40.4





#33

1,2-Dichloroethane-d4

Concen: 51.257 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY022062.D

Acq: 29 Apr 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

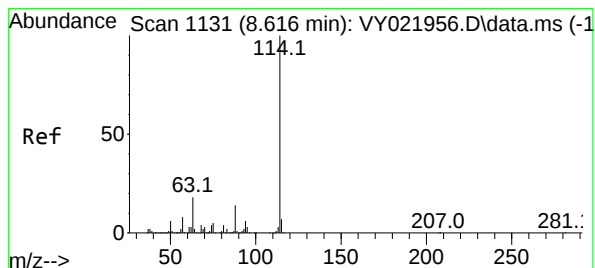
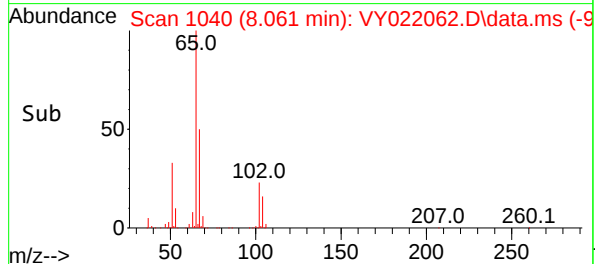
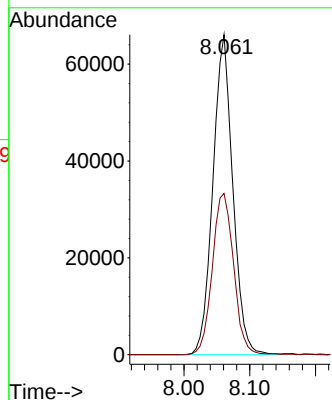
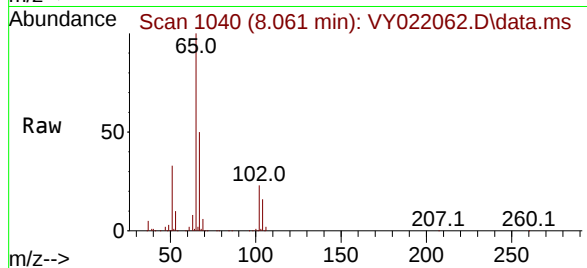
COMP-5

Tgt Ion: 65 Resp: 139187

Ion Ratio Lower Upper

65 100

67 53.9 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022062.D

Acq: 29 Apr 2025 17:27

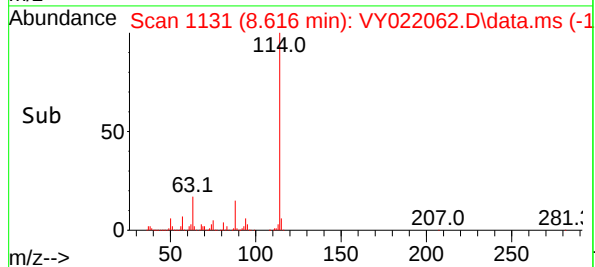
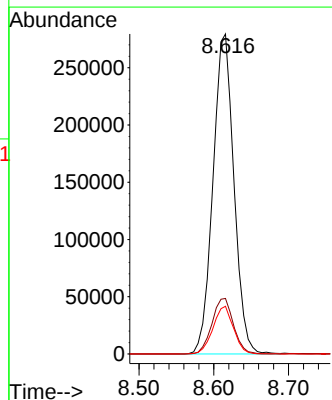
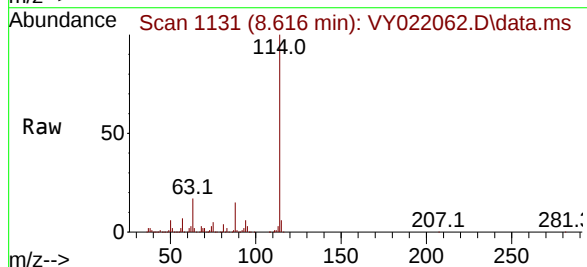
Tgt Ion:114 Resp: 545754

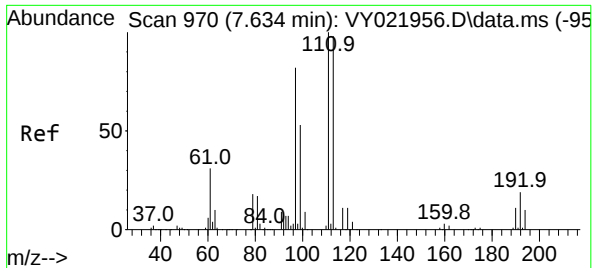
Ion Ratio Lower Upper

114 100

63 17.4 0.0 35.4

88 14.9 0.0 28.2





#35

Dibromofluoromethane

Concen: 51.127 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY022062.D

Acq: 29 Apr 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

COMP-5

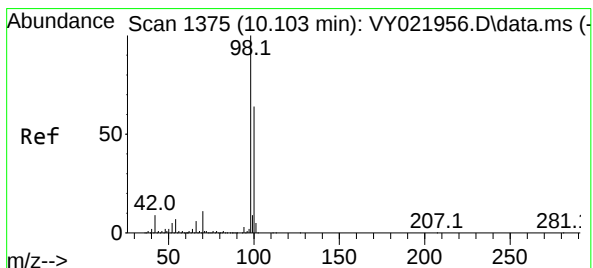
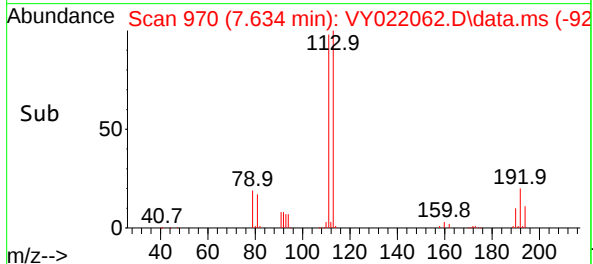
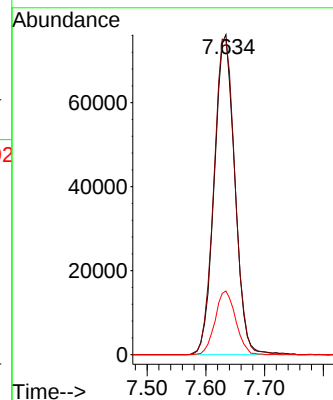
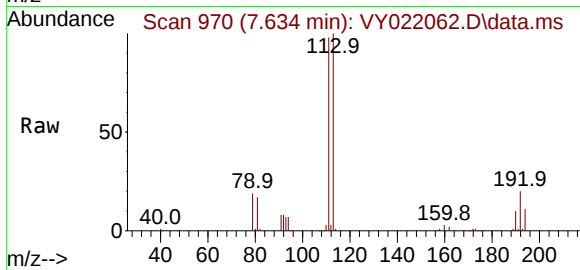
Tgt Ion:113 Resp: 184342

Ion Ratio Lower Upper

113 100

111 102.0 81.8 122.8

192 20.0 15.6 23.4



#50

Toluene-d8

Concen: 49.110 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY022062.D

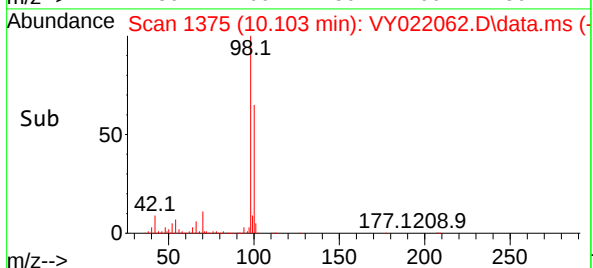
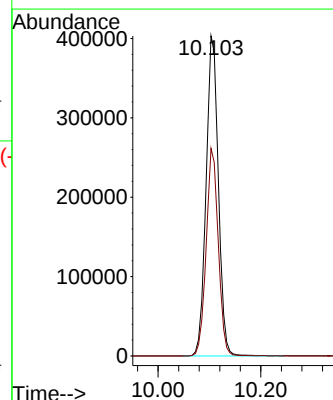
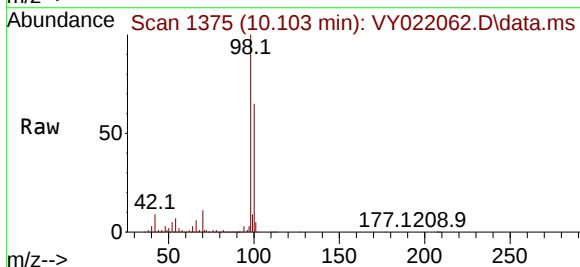
Acq: 29 Apr 2025 17:27

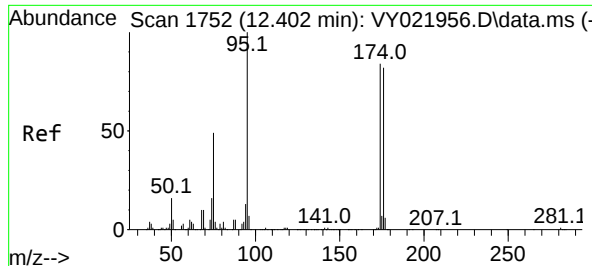
Tgt Ion: 98 Resp: 667552

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4





#62

4-Bromofluorobenzene

Concen: 40.102 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY022062.D

Acq: 29 Apr 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

COMP-5

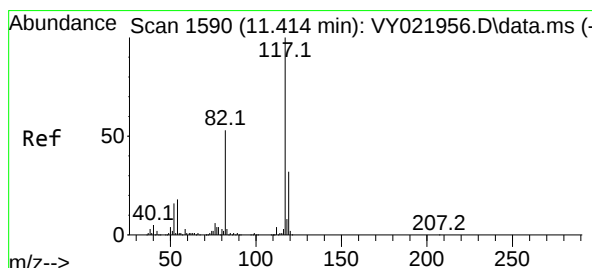
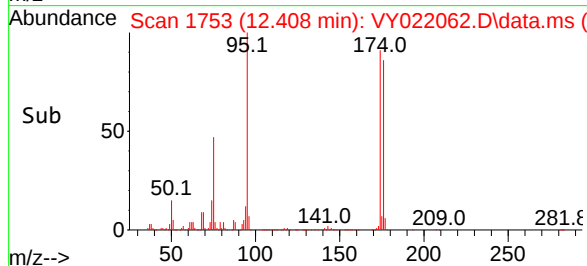
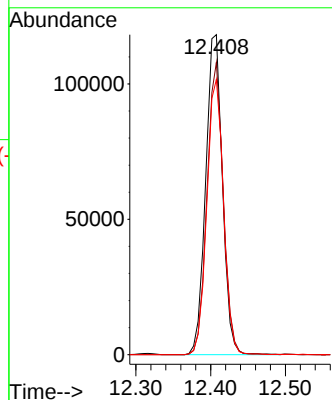
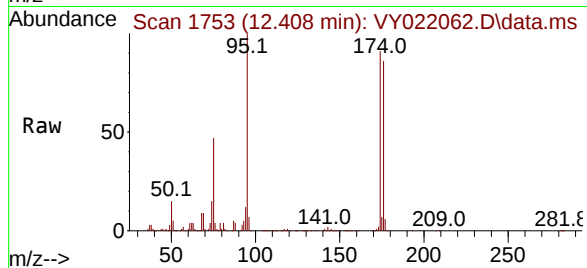
Tgt Ion: 95 Resp: 183504

Ion Ratio Lower Upper

95 100

174 89.1 0.0 179.0

176 85.7 0.0 171.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY022062.D

Acq: 29 Apr 2025 17:27

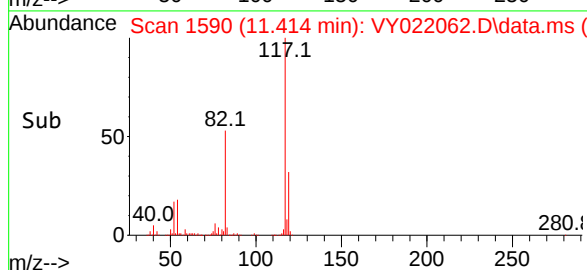
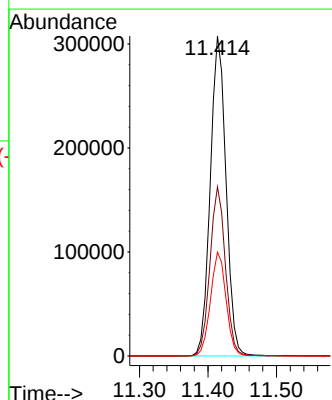
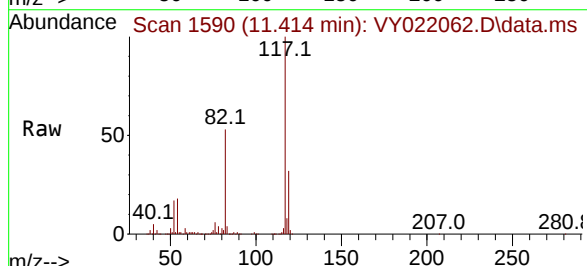
Tgt Ion: 117 Resp: 490384

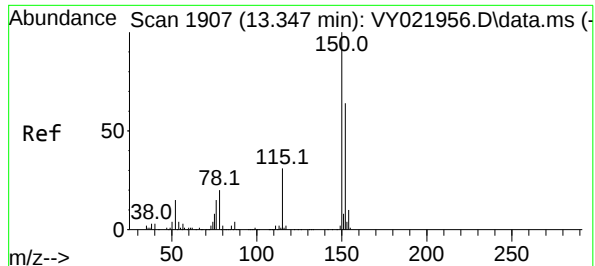
Ion Ratio Lower Upper

117 100

82 52.9 42.1 63.1

119 32.5 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022062.D

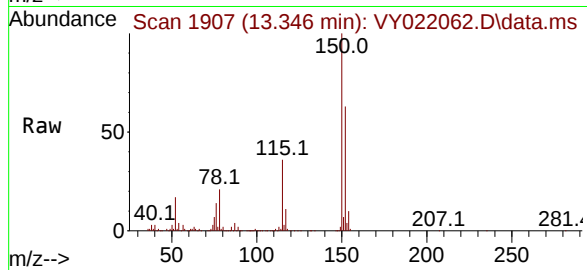
Acq: 29 Apr 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

COMP-5



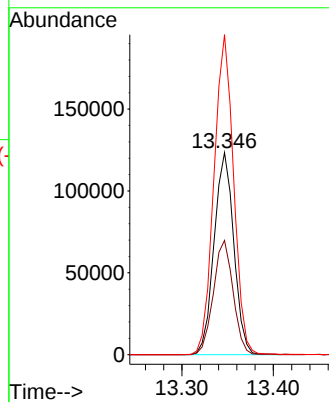
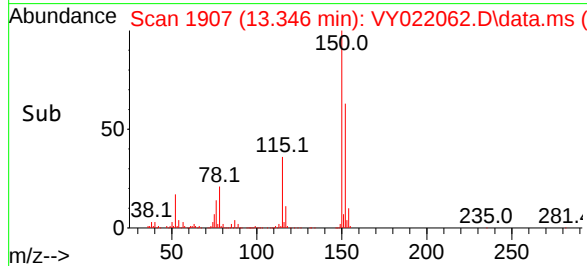
Tgt Ion:152 Resp: 184808

Ion Ratio Lower Upper

152 100

115 56.7 28.0 84.0

150 158.2 0.0 345.6



Report of Analysis

Client:	Kleinfelder	Date Collected:	04/25/25
Project:	Mitchell School	Date Received:	04/28/25
Client Sample ID:	COMP-6	SDG No.:	Q1903
Lab Sample ID:	Q1903-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83.9
Sample Wt/Vol:	5.36	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25
		Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022063.D	1		04/29/25 17:50	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.83	U	0.83	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
71-43-2	Benzene	0.88	U	0.88	5.60	ug/Kg
79-01-6	Trichloroethene	0.90	U	0.90	5.60	ug/Kg
108-88-3	Toluene	0.87	U	0.87	5.60	ug/Kg
100-41-4	Ethyl Benzene	0.74	U	0.74	5.60	ug/Kg
1330-20-7	Total Xylenes	2.31	U	2.31	16.7	ug/Kg
98-82-8	Isopropylbenzene	0.87	U	0.87	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	48.5		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.7		38 - 136	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	287000	7.707			
540-36-3	1,4-Difluorobenzene	548000	8.615			
3114-55-4	Chlorobenzene-d5	501000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	193000	13.346			

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_Y\Data\VY042925\
 Data File : VY022063.D
 Acq On : 29 Apr 2025 17:50
 Operator : SY/MD
 Sample : Q1903-03
 Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 COMP-6

Quant Time: Apr 30 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	287202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	548094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	500953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	192908	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150563	56.756	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	113.520%
35) Dibromofluoromethane	7.634	113	187366	51.744	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.480%
50) Toluene-d8	10.103	98	661999	48.494	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.980%
62) 4-Bromofluorobenzene	12.407	95	186953	40.681	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	81.360%

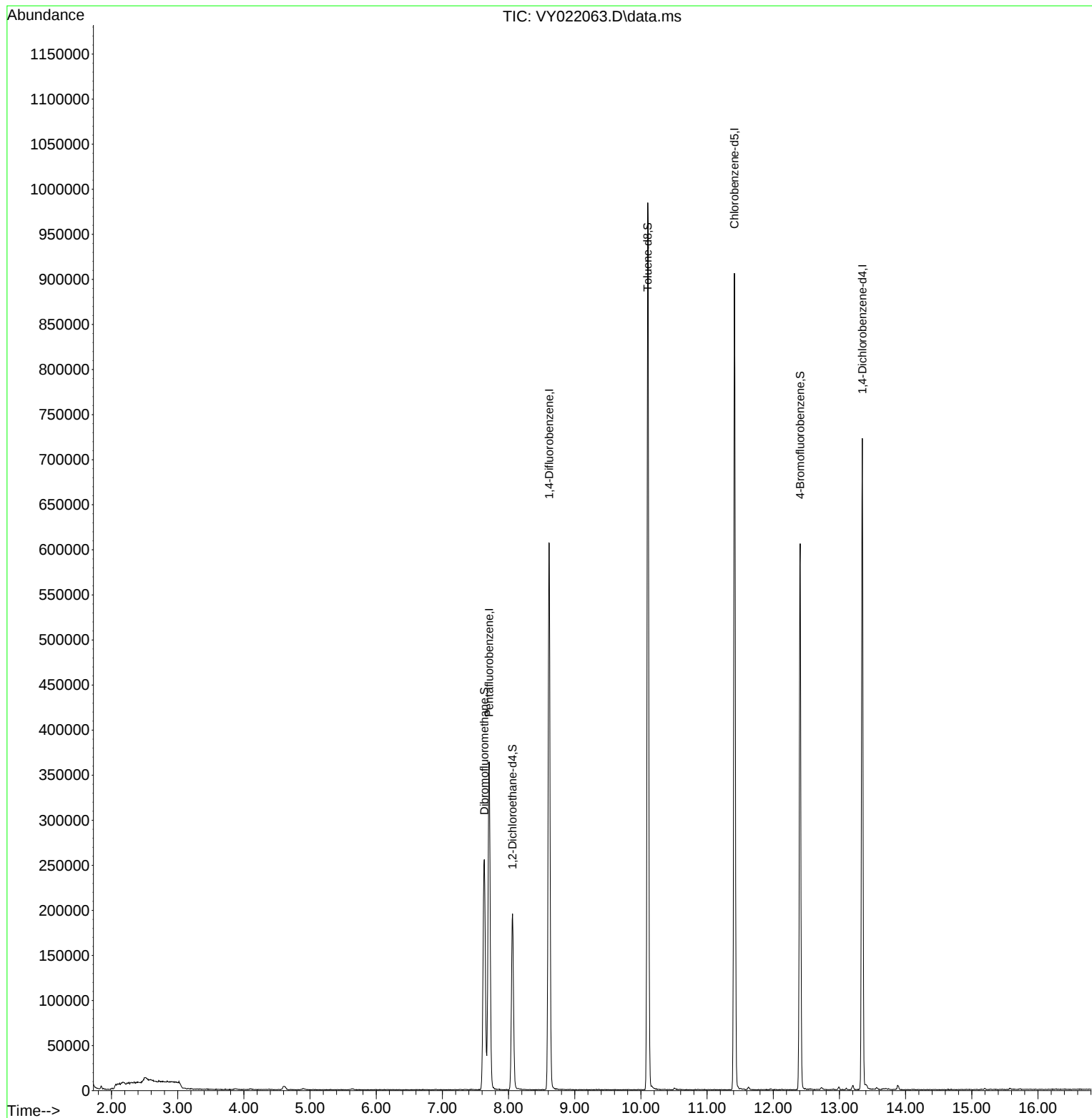
Target Compounds	Qvalue

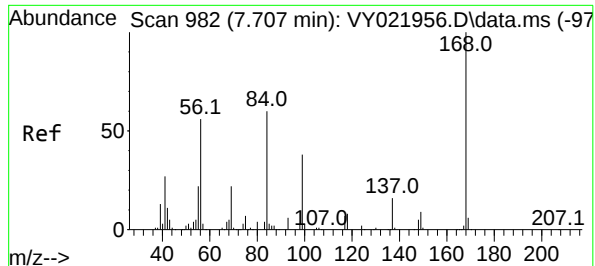
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022063.D
Acq On : 29 Apr 2025 17:50
Operator : SY/MD
Sample : Q1903-03
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
COMP-6

Quant Time: Apr 30 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

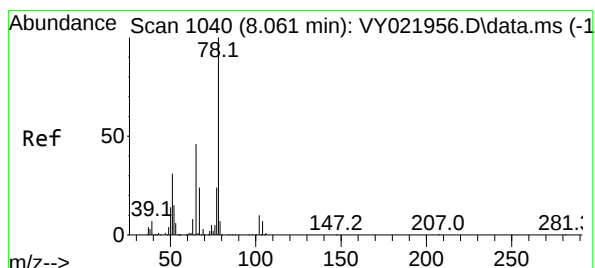
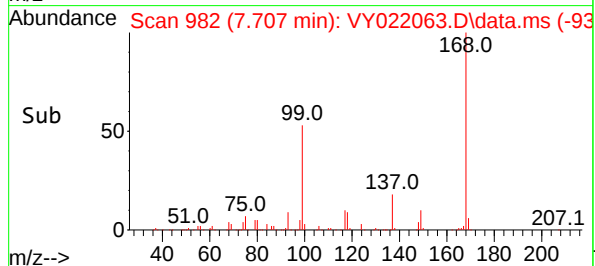
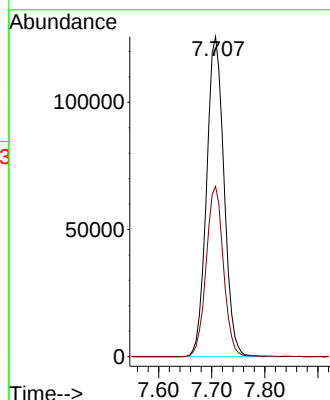
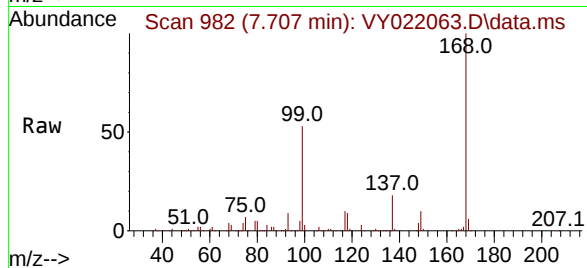




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.000 min
Lab File: VY022063.D
Acq: 29 Apr 2025 17:50

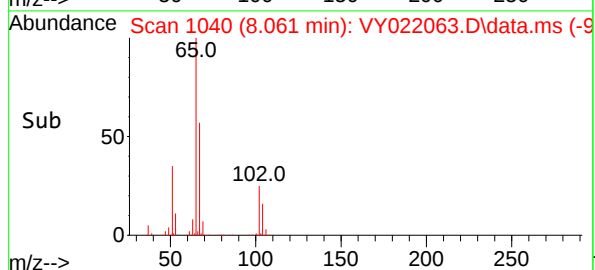
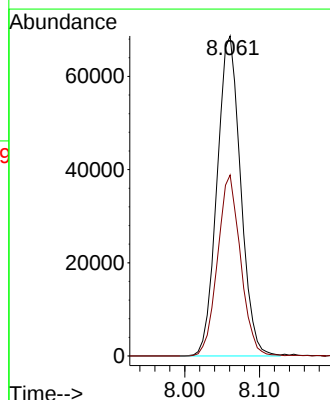
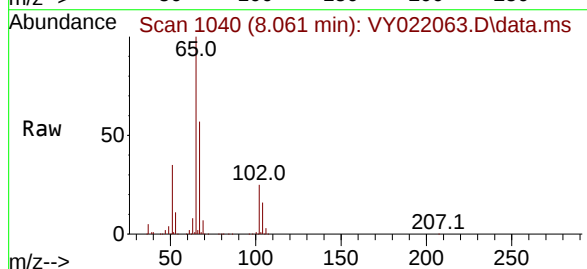
Instrument :
MSVOA_Y
ClientSampleId :
COMP-6

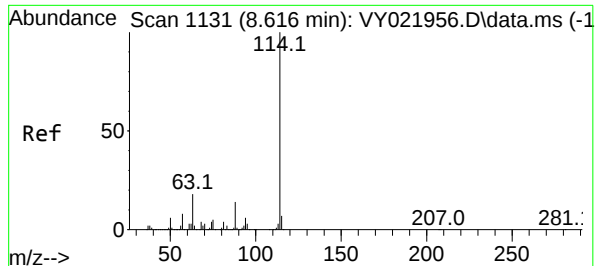
Tgt Ion:168 Resp: 287202
Ion Ratio Lower Upper
168 100
99 53.2 43.1 64.7



#33
1,2-Dichloroethane-d4
Concen: 56.756 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022063.D
Acq: 29 Apr 2025 17:50

Tgt Ion: 65 Resp: 150563
Ion Ratio Lower Upper
65 100
67 55.1 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022063.D

Acq: 29 Apr 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

COMP-6

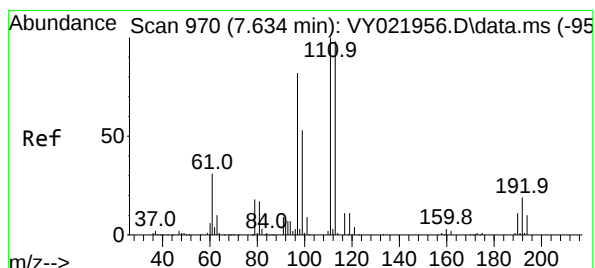
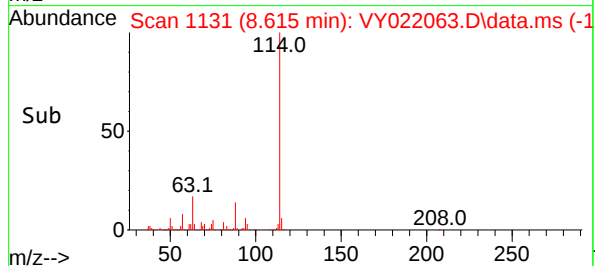
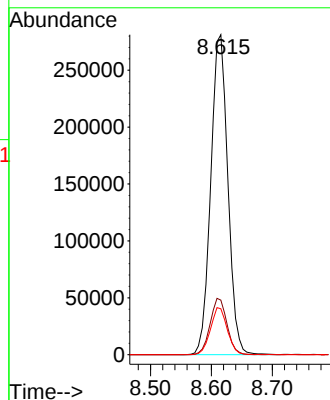
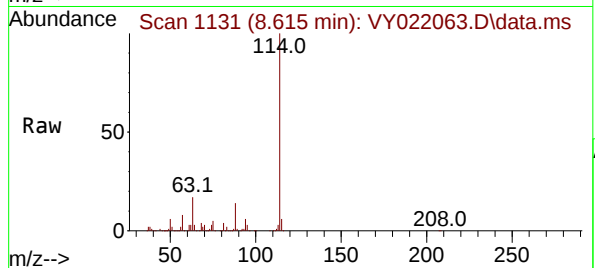
Tgt Ion:114 Resp: 548094

Ion Ratio Lower Upper

114 100

63 17.0 0.0 35.4

88 14.4 0.0 28.2



#35

Dibromofluoromethane

Concen: 51.744 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY022063.D

Acq: 29 Apr 2025 17:50

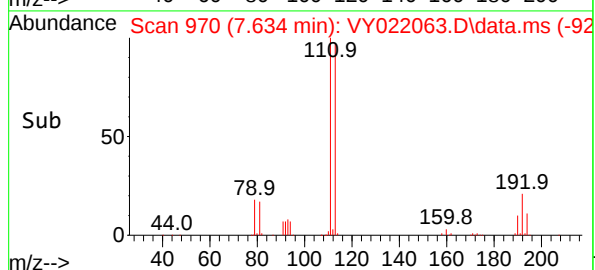
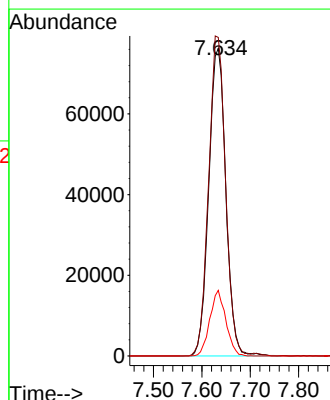
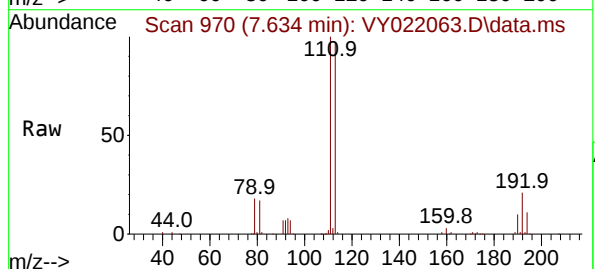
Tgt Ion:113 Resp: 187366

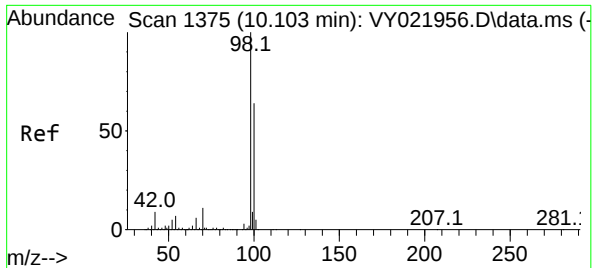
Ion Ratio Lower Upper

113 100

111 102.8 81.8 122.8

192 20.0 15.6 23.4

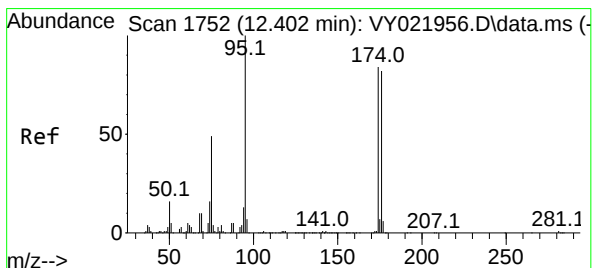
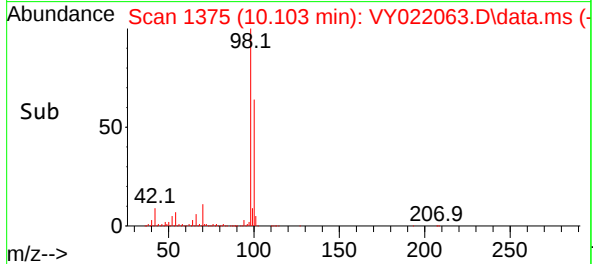
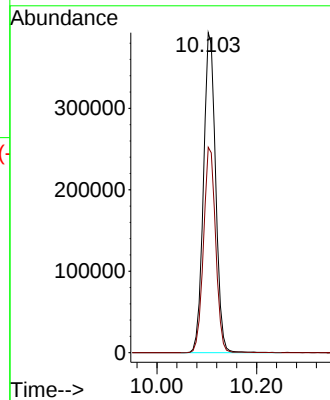
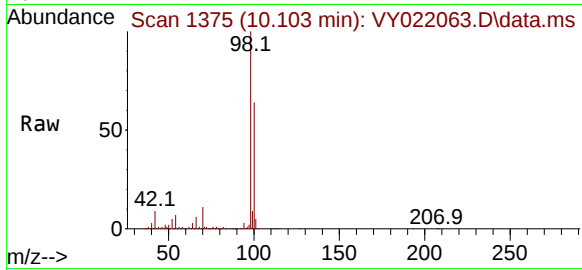




#50
Toluene-d8
Concen: 48.494 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022063.D
Acq: 29 Apr 2025 17:50

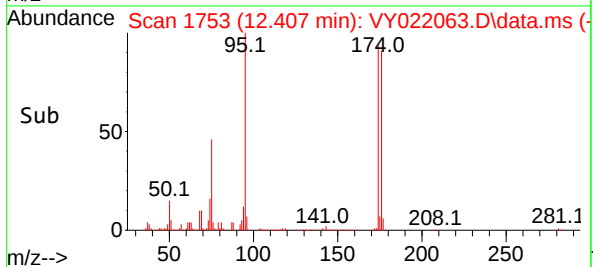
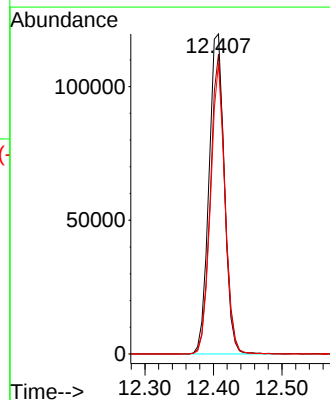
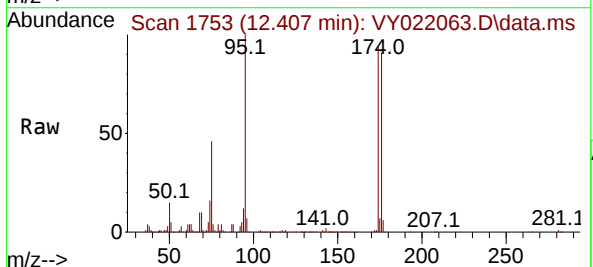
Instrument :
MSVOA_Y
ClientSampleId :
COMP-6

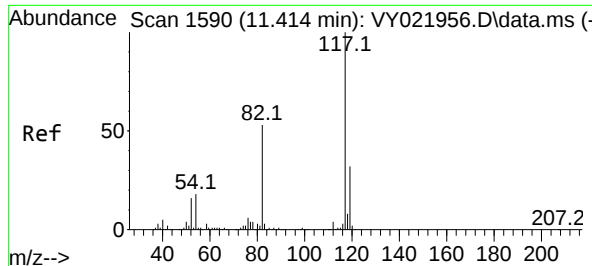
Tgt Ion: 98 Resp: 661999
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4



#62
4-Bromofluorobenzene
Concen: 40.681 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022063.D
Acq: 29 Apr 2025 17:50

Tgt Ion: 95 Resp: 186953
Ion Ratio Lower Upper
95 100
174 89.5 0.0 179.0
176 84.6 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 117

Delta R.T. -0.000 min

Lab File: VY022063.D

Acq: 29 Apr 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

COMP-6

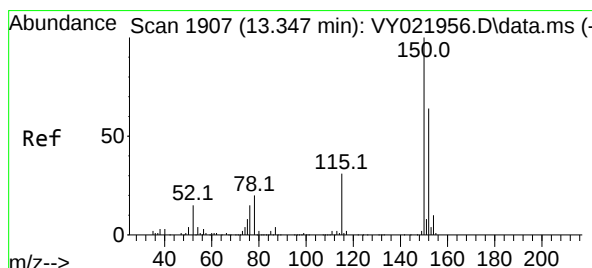
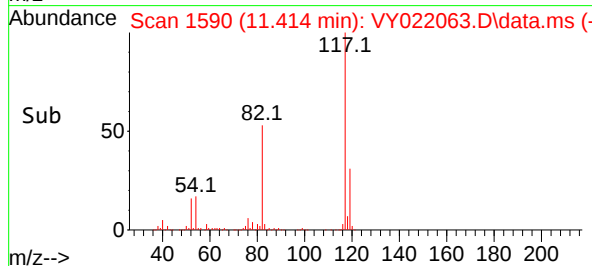
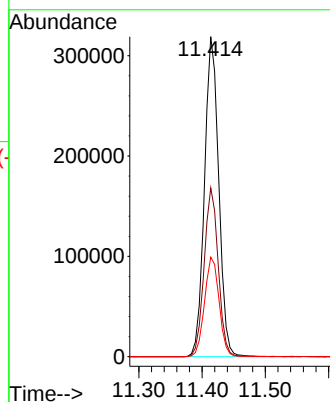
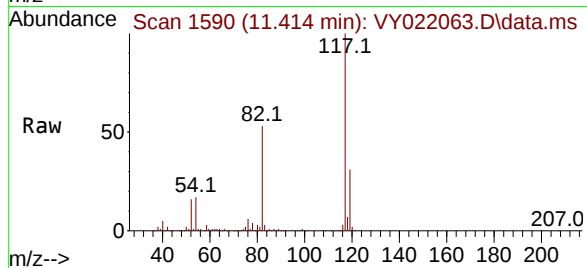
Tgt Ion:117 Resp: 500953

Ion Ratio Lower Upper

117 100

82 52.7 42.1 63.1

119 31.1 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022063.D

Acq: 29 Apr 2025 17:50

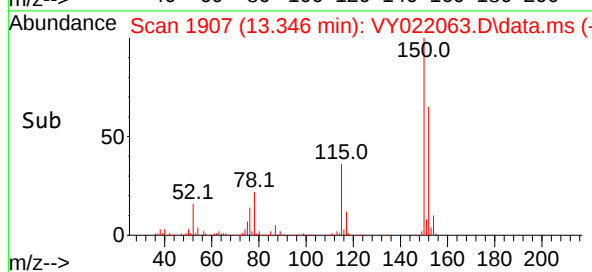
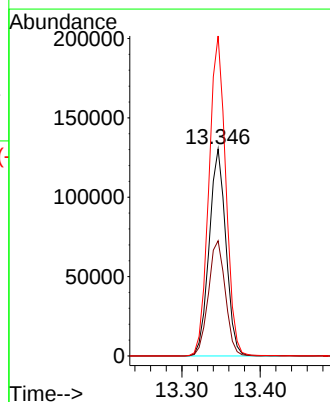
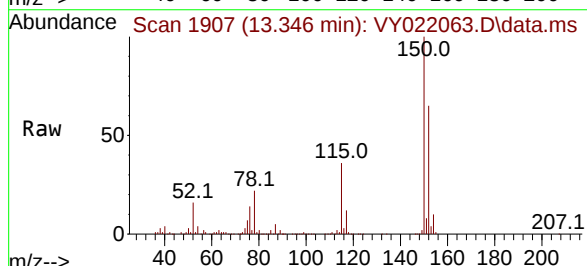
Tgt Ion:152 Resp: 192908

Ion Ratio Lower Upper

152 100

115 56.4 28.0 84.0

150 156.2 0.0 345.6





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: POWE02
 Lab Code: CHEM Case No.: Q1903 SAS No.: Q1903 SDG No.: Q1903
 Instrument ID: MSVOA_Y Calibration Date(s): 04/22/2025 04/22/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 13:39 16:15
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY021953.D		RRF010 = VY021954.D		RRF020 = VY021955.D		
		RRF050 = VY021956.D		RRF100 = VY021957.D		RRF150 = VY021958.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
cis-1,2-Dichloroethene	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.1
1,1,1-Trichloroethane	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.8
Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.1
Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.3
Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	4.4
Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.1
m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.3
o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.3
Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.2
1,2-Dichloroethane-d4	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.3
Dibromofluoromethane	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.3
Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2
4-Bromofluorobenzene	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.8

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y042225S.M
 Title : SW846 8260
 Last Update : Wed Apr 23 02:30:30 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY021953.D 10 =VY021954.D 20 =VY021955.D 50 =VY021956.D 100 =VY021957.D 150 =VY021958.D

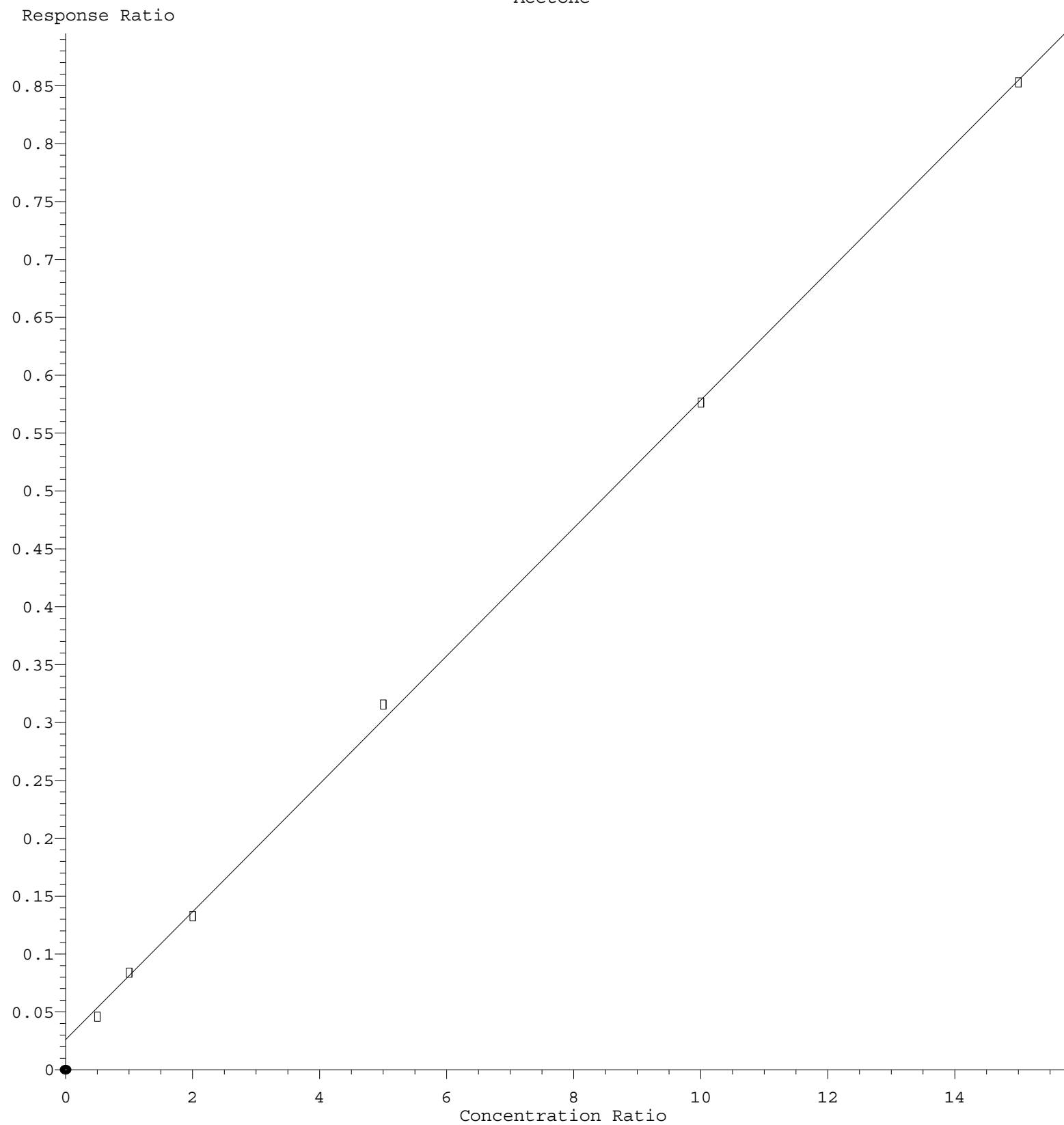
	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.469	0.477	0.405	0.393	0.408	0.405	0.426	8.66
3) P	Chloromethane	0.704	0.670	0.636	0.602	0.529	0.498	0.607	13.24
4) C	Vinyl Chloride	0.829	0.830	0.758	0.730	0.680	0.647	0.745	10.14#
5) T	Bromomethane	0.782	0.697	0.674	0.596	0.554	0.550	0.642	14.29
6) T	Chloroethane	0.589	0.550	0.524	0.494	0.460	0.429	0.508	11.60
7) T	Trichlorofluor...	1.048	1.075	0.987	0.960	0.921	0.907	0.983	6.87
8) T	Diethyl Ether	0.283	0.266	0.253	0.247	0.246	0.240	0.256	6.23
9) T	1,1,2-Trichlor...	0.604	0.591	0.530	0.489	0.497	0.488	0.533	9.83
10) T	Methyl Iodide	0.573	0.619	0.604	0.629	0.651	0.628	0.617	4.33
11) T	Tert butyl alc...	0.027	0.024	0.027	0.026	0.023	0.025	0.025	6.35
12) CM	1,1-Dichloroet...	0.525	0.532	0.483	0.471	0.487	0.484	0.497	5.05#
13) T	Acrolein	0.053	0.045	0.051	0.042	0.040	0.042	0.046	11.55
14) T	Allyl chloride	0.620	0.607	0.558	0.555	0.575	0.557	0.579	4.82
15) T	Acrylonitrile	0.103	0.090	0.099	0.093	0.088	0.088	0.094	6.56
16) T	Acetone	0.092	0.084	0.066	0.063	0.058	0.057	0.070	20.66
17) T	Carbon Disulfide	1.736	1.737	1.569	1.493	1.516	1.459	1.585	7.75
18) T	Methyl Acetate	0.214	0.200	0.231	0.223	0.208	0.219	0.216	5.16
19) T	Methyl tert-bu...	1.098	1.067	1.102	1.133	1.141	1.134	1.113	2.57
20) T	Methylene Chlo...	0.759	0.625	0.574	0.533	0.518	0.494	0.584	16.72
21) T	trans-1,2-Dich...	0.619	0.578	0.533	0.532	0.546	0.532	0.557	6.29
22) T	Diisopropyl ether	1.282	1.292	1.316	1.290	1.300	1.248	1.288	1.78
23) T	Vinyl Acetate	0.657	0.684	0.700	0.716	0.713	0.694	0.694	3.15
24) P	1,1-Dichloroet...	0.987	0.943	0.893	0.853	0.855	0.826	0.893	6.89
25) T	2-Butanone	0.111	0.107	0.108	0.106	0.099	0.100	0.105	4.53
26) T	2,2-Dichloropr...	0.841	0.830	0.763	0.743	0.770	0.748	0.782	5.42
27) T	cis-1,2-Dichlo...	0.626	0.638	0.604	0.612	0.633	0.621	0.622	2.08
28) T	Bromochloromet...	0.376	0.362	0.365	0.343	0.321	0.314	0.347	7.18
29) T	Tetrahydrofuran	0.067	0.065	0.072	0.073	0.066	0.067	0.068	4.92
30) C	Chloroform	1.084	1.046	0.974	0.956	0.958	0.925	0.990	6.17#
31) T	Cyclohexane	0.836	0.857	0.738	0.708	0.730	0.711	0.763	8.59
32) T	1,1,1-Trichlor...	0.972	0.944	0.896	0.853	0.865	0.846	0.896	5.78
33) S	1,2-Dichloroet...	0.525	0.477	0.459	0.466	0.418	0.427	0.462	8.29
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.335	0.341	0.330	0.330	0.319	0.327	0.330	2.34
36) T	1,1-Dichloropr...	0.455	0.470	0.424	0.425	0.450	0.437	0.444	4.10
37) T	Ethyl Acetate	0.166	0.161	0.163	0.161	0.153	0.151	0.159	3.67
38) T	Carbon Tetrach...	0.540	0.563	0.512	0.507	0.535	0.523	0.530	3.90
39) T	Methylcyclohexane	0.525	0.569	0.519	0.549	0.600	0.589	0.558	5.95
40) TM	Benzene	1.423	1.439	1.351	1.337	1.415	1.358	1.387	3.14
41) T	Methacrylonitrile	0.076	0.086	0.104	0.092	0.082	0.084	0.087	11.20
42) TM	1,2-Dichloroet...	0.347	0.367	0.350	0.335	0.336	0.325	0.343	4.27
43) T	Isopropyl Acetate	0.301	0.293	0.314	0.312	0.309	0.308	0.306	2.52
44) TM	Trichloroethene	0.402	0.405	0.369	0.367	0.387	0.375	0.384	4.28
45) C	1,2-Dichloropr...	0.320	0.317	0.302	0.300	0.308	0.294	0.307	3.36#
46) T	Dibromomethane	0.202	0.193	0.192	0.187	0.191	0.187	0.192	2.95
47) T	Bromodichlorom...	0.479	0.504	0.464	0.470	0.490	0.471	0.480	3.08
48) T	Methyl methacr...	0.120	0.130	0.147	0.150	0.150	0.151	0.141	9.21
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	5.90
50) S	Toluene-d8	1.220	1.260	1.211	1.276	1.244	1.261	1.245	2.04
51) T	4-Methyl-2-Pen...	0.144	0.149	0.167	0.172	0.166	0.165	0.160	6.94
52) CM	Toluene	0.838	0.915	0.875	0.894	0.952	0.913	0.898	4.35#
53) T	t-1,3-Dichloro...	0.383	0.408	0.399	0.417	0.437	0.425	0.411	4.70
54) T	cis-1,3-Dichlo...	0.466	0.488	0.483	0.484	0.514	0.500	0.489	3.32
55) T	1,1,2-Trichlor...	0.250	0.261	0.261	0.256	0.258	0.252	0.256	1.82
56) T	Ethyl methacry...	0.234	0.259	0.290	0.316	0.332	0.329	0.293	13.69

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y042225S.M

57)	T	1,3-Dichloropr...	0.413	0.420	0.405	0.409	0.417	0.404	0.411	1.58
58)	T	2-Chloroethyl ...	0.118	0.121	0.146	0.161	0.154	0.161	0.143	13.40
59)	T	2-Hexanone	0.093	0.096	0.109	0.115	0.111	0.111	0.106	8.46
60)	T	Dibromochlorom...	0.345	0.355	0.354	0.352	0.367	0.357	0.355	1.96
61)	T	1,2-Dibromoethane	0.238	0.243	0.243	0.241	0.247	0.240	0.242	1.27
62)	S	4-Bromofluorob...	0.408	0.429	0.401	0.426	0.423	0.428	0.419	2.77
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.500	0.516	0.462	0.455	0.466	0.430	0.472	6.64
65)	PM	Chlorobenzene	1.188	1.152	1.055	1.083	1.139	1.092	1.118	4.46
66)	T	1,1,1,2-Tetrac...	0.401	0.409	0.376	0.386	0.401	0.388	0.394	3.12
67)	C	Ethyl Benzene	1.693	1.840	1.718	1.835	1.990	1.898	1.829	6.06#
68)	T	m/p-Xylenes	0.664	0.720	0.699	0.734	0.797	0.754	0.728	6.28
69)	T	o-Xylene	0.599	0.639	0.635	0.689	0.747	0.716	0.671	8.32
70)	T	Styrene	0.950	1.080	1.078	1.169	1.272	1.209	1.126	10.16
71)	P	Bromoform	0.234	0.221	0.224	0.229	0.236	0.229	0.229	2.48
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.061	3.316	3.102	3.325	3.639	3.599	3.341	7.24
74)	T	N-amyl acetate	0.528	0.530	0.553	0.591	0.615	0.626	0.574	7.48
75)	P	1,1,2,2-Tetrac...	0.601	0.562	0.555	0.548	0.555	0.558	0.563	3.42
76)	T	1,2,3-Trichlor...	0.498	0.445	0.418	0.405	0.408	0.397	0.428	8.83
77)	T	Bromobenzene	0.855	0.831	0.780	0.828	0.890	0.881	0.844	4.76
78)	T	n-propylbenzene	3.708	3.996	3.778	3.977	4.258	4.152	3.978	5.30
79)	T	2-Chlorotoluene	2.253	2.343	2.179	2.280	2.435	2.391	2.314	4.07
80)	T	1,3,5-Trimethy...	2.467	2.757	2.614	2.800	2.978	2.898	2.752	6.80
81)	T	trans-1,4-Dich...	0.185	0.174	0.170	0.177	0.181	0.181	0.178	2.93
82)	T	4-Chlorotoluene	2.313	2.501	2.270	2.380	2.521	2.445	2.405	4.23
83)	T	tert-Butylbenzene	2.246	2.382	2.263	2.494	2.725	2.701	2.468	8.48
84)	T	1,2,4-Trimethy...	2.415	2.717	2.631	2.784	3.027	2.945	2.753	8.01
85)	T	sec-Butylbenzene	3.254	3.724	3.409	3.602	3.898	3.786	3.612	6.72
86)	T	p-Isopropyltol...	2.717	3.016	2.869	3.094	3.386	3.321	3.067	8.39
87)	T	1,3-Dichlorobe...	1.730	1.784	1.595	1.647	1.789	1.742	1.714	4.53
88)	T	1,4-Dichlorobe...	1.821	1.726	1.605	1.620	1.733	1.682	1.698	4.73
89)	T	n-Butylbenzene	2.477	2.790	2.545	2.742	2.976	2.919	2.742	7.24
90)	T	Hexachloroethane	0.715	0.710	0.614	0.638	0.689	0.677	0.674	6.01
91)	T	1,2-Dichlorobe...	1.523	1.522	1.434	1.452	1.537	1.505	1.495	2.84
92)	T	1,2-Dibromo-3-...	0.097	0.091	0.094	0.084	0.085	0.087	0.090	5.90
93)	T	1,2,4-Trichlor...	0.747	0.800	0.785	0.823	0.970	0.959	0.847	11.11
94)	T	Hexachlorobuta...	0.522	0.545	0.483	0.480	0.555	0.544	0.521	6.28
95)	T	Naphthalene	1.186	1.113	1.284	1.436	1.690	1.738	1.408	18.56
96)	T	1,2,3-Trichlor...	0.671	0.673	0.684	0.707	0.829	0.825	0.731	10.25

(#) = Out of Range

Acetone



Response = $5.529 \times 10^{-2} \times \text{Amt} + 2.582 \times 10^{-2}$
Coef of Det (r^2) = 0.999482 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y042225S.M
Calibration Table Last Updated: Wed Apr 23 02:30:30 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021953.D
 Acq On : 22 Apr 2025 13:39
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:07:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	280613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	462995	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	410723	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	205526	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	14719	5.679	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	11.360%#		
35) Dibromofluoromethane	7.634	113	15517	5.073	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	10.140%#		
50) Toluene-d8	10.109	98	56501	4.900	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.800%#		
62) 4-Bromofluorobenzene	12.407	95	18902	4.869	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	9.740%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	13157	5.503	ug/l	93
3) Chloromethane	2.068	50	19759	5.803	ug/l	92
4) Vinyl Chloride	2.202	62	23262	5.560	ug/l	98
5) Bromomethane	2.598	94	21956	6.091	ug/l	99
6) Chloroethane	2.732	64	16527	5.800	ug/l	90
7) Trichlorofluoromethane	3.055	101	29399	5.329	ug/l	93
8) Diethyl Ether	3.452	74	7949	5.536	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.818	101	16959	5.667	ug/l	97
10) Methyl Iodide	4.000	142	16072	4.638	ug/l	97
11) Tert butyl alcohol	4.866	59	3727m	26.192	ug/l	
12) 1,1-Dichloroethene	3.793	96	14742	5.285	ug/l	97
13) Acrolein	3.659	56	7419	29.049	ug/l	97
14) Allyl chloride	4.372	41	17385	5.352	ug/l	98
15) Acrylonitrile	5.055	53	14464	27.514	ug/l	97
16) Acetone	3.872	43	12844	18.039	ug/l #	83
17) Carbon Disulfide	4.104	76	48701	5.475	ug/l	98
18) Methyl Acetate	4.391	43	5994	4.951	ug/l	92
19) Methyl tert-butyl Ether	5.110	73	30819	4.936	ug/l	98
20) Methylene Chloride	4.610	84	21309	6.502	ug/l	98
21) trans-1,2-Dichloroethene	5.104	96	17357	5.556	ug/l	92
22) Diisopropyl ether	6.012	45	35963	4.975	ug/l	91
23) Vinyl Acetate	5.963	43	92152	23.655	ug/l	95
24) 1,1-Dichloroethane	5.915	63	27705	5.529	ug/l	98
25) 2-Butanone	6.896	43	15627	26.449	ug/l #	87
26) 2,2-Dichloropropane	6.890	77	23594	5.373	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	17569	5.029	ug/l	96
28) Bromochloromethane	7.244	49	10541	5.416	ug/l	98
29) Tetrahydrofuran	7.262	42	9424	24.559	ug/l	97
30) Chloroform	7.421	83	30418	5.473	ug/l	97
31) Cyclohexane	7.707	56	23446	5.472	ug/l #	77
32) 1,1,1-Trichloroethane	7.622	97	27271	5.424	ug/l	96
36) 1,1-Dichloropropene	7.829	75	21076	5.130	ug/l	96
37) Ethyl Acetate	6.982	43	7691m	5.283	ug/l	
38) Carbon Tetrachloride	7.811	117	25016	5.095	ug/l	97
39) Methylcyclohexane	9.109	83	24303	4.700	ug/l	97
40) Benzene	8.079	78	65878	5.129	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021953.D
 Acq On : 22 Apr 2025 13:39
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025

Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:07:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M

Quant Title : SW846 8260

QLast Update : Wed Apr 23 02:02:03 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	3506m	4.345	ug/l	
42) 1,2-Dichloroethane	8.158	62	16046	5.046	ug/l	96
43) Isopropyl Acetate	8.195	43	13940	4.919	ug/l #	86
44) Trichloroethene	8.865	130	18611	5.231	ug/l	96
45) 1,2-Dichloropropane	9.146	63	14827	5.220	ug/l	99
46) Dibromomethane	9.231	93	9367	5.268	ug/l	96
47) Bromodichloromethane	9.420	83	22170	4.991	ug/l #	96
48) Methyl methacrylate	9.225	41	5570	4.252	ug/l	94
49) 1,4-Dioxane	9.231	88	1703	89.863	ug/l #	90
51) 4-Methyl-2-Pentanone	9.999	43	33298	22.414	ug/l	98
52) Toluene	10.170	92	38784	4.665	ug/l	97
53) t-1,3-Dichloropropene	10.396	75	17712	4.649	ug/l #	87
54) cis-1,3-Dichloropropene	9.853	75	21582	4.765	ug/l	92
55) 1,1,2-Trichloroethane	10.572	97	11582	4.877	ug/l	94
56) Ethyl methacrylate	10.444	69	10816	3.982	ug/l	96
57) 1,3-Dichloropropane	10.719	76	19113	5.020	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	27363	20.606	ug/l	100
59) 2-Hexanone	10.761	43	21558	22.001	ug/l	92
60) Dibromochloromethane	10.914	129	15992	4.863	ug/l	97
61) 1,2-Dibromoethane	11.017	107	11020	4.915	ug/l	98
64) Tetrachloroethene	10.646	164	20545	5.302	ug/l	91
65) Chlorobenzene	11.444	112	48805	5.314	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.517	131	16483	5.097	ug/l	98
67) Ethyl Benzene	11.517	91	69548	4.629	ug/l	97
68) m/p-Xylenes	11.627	106	54518	9.119	ug/l	100
69) o-Xylene	11.956	106	24611	4.466	ug/l	98
70) Styrene	11.969	104	39016	4.217	ug/l	97
71) Bromoform	12.133	173	9608	5.111	ug/l #	98
73) Isopropylbenzene	12.255	105	62917	4.582	ug/l	97
74) N-amyl acetate	12.072	43	10843	4.596	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	12362	5.340	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	10228m	5.648	ug/l	
77) Bromobenzene	12.535	156	17570	5.064	ug/l	100
78) n-propylbenzene	12.596	91	76210	4.660	ug/l	100
79) 2-Chlorotoluene	12.682	91	46298	4.868	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	50699	4.481	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	3795	5.191	ug/l	98
82) 4-Chlorotoluene	12.779	91	47541	4.809	ug/l	98
83) tert-Butylbenzene	12.999	119	46171	4.550	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	49642	4.387	ug/l	99
85) sec-Butylbenzene	13.176	105	66872	4.504	ug/l	99
86) p-Isopropyltoluene	13.291	119	55850	4.430	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	35553	5.045	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	37426	5.362	ug/l	95
89) n-Butylbenzene	13.621	91	50918	4.518	ug/l	99
90) Hexachloroethane	13.883	117	14703	5.308	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	31298	5.092	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	2000	5.430	ug/l	86
93) 1,2,4-Trichlorobenzene	14.919	180	15346	4.406	ug/l	94
94) Hexachlorobutadiene	15.023	225	10723	5.004	ug/l	98
95) Naphthalene	15.145	128	24368	4.212	ug/l	97
96) 1,2,3-Trichlorobenzene	15.328	180	13785	4.585	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021953.D
Acq On : 22 Apr 2025 13:39
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:07:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

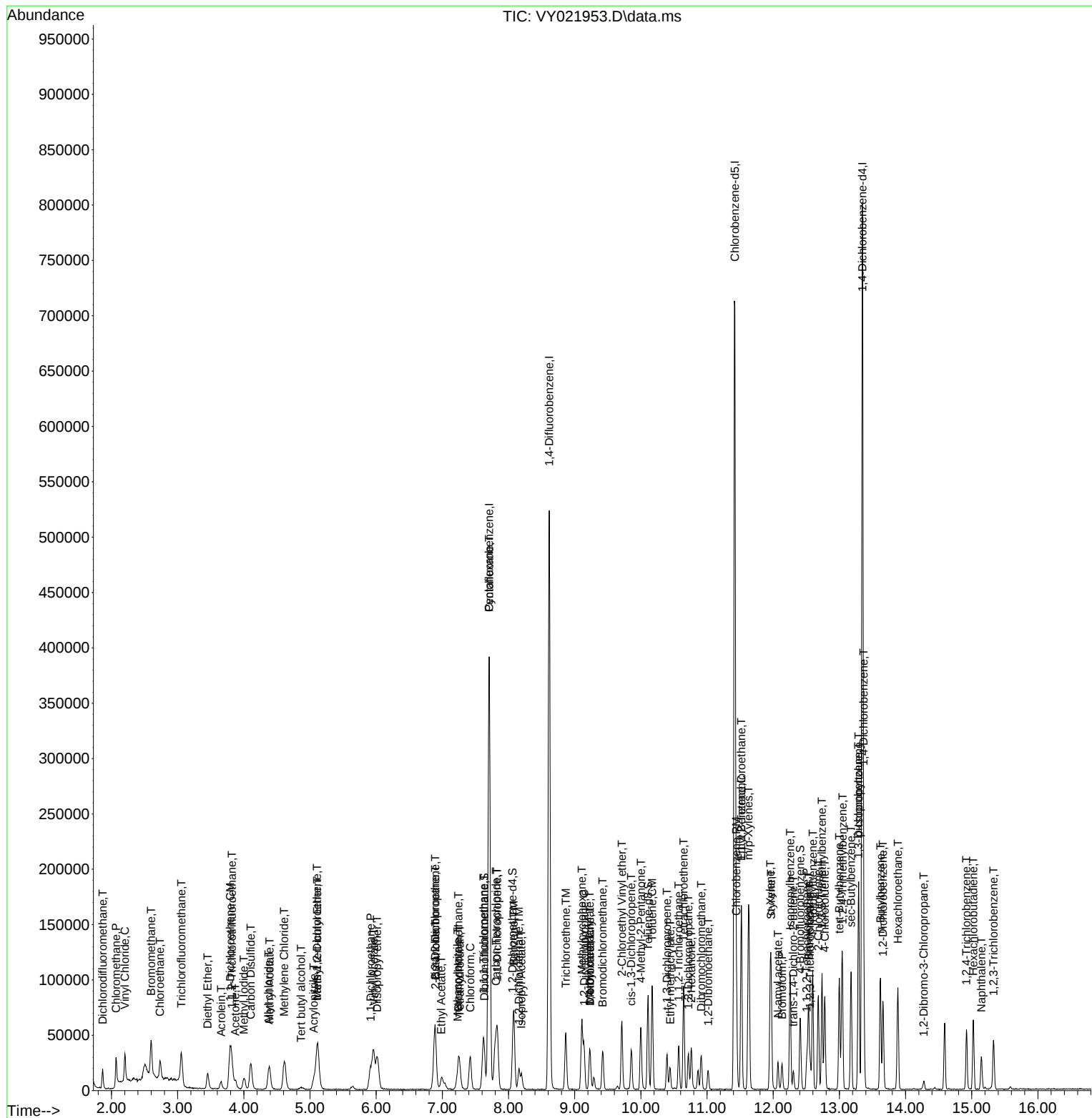
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021954.D
 Acq On : 22 Apr 2025 14:44
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:08:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	292096	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	462235	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	418471	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	217358	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	27856	10.325	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.640%#		
35) Dibromofluoromethane	7.634	113	31560	10.335	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.660%#		
50) Toluene-d8	10.103	98	116480	10.118	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	20.240%#		
62) 4-Bromofluorobenzene	12.407	95	39704	10.244	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	20.480%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	27882	11.202	ug/l	95
3) Chloromethane	2.068	50	39169	11.052	ug/l	91
4) Vinyl Chloride	2.202	62	48475	11.131	ug/l	98
5) Bromomethane	2.598	94	40742	10.859	ug/l	98
6) Chloroethane	2.732	64	32122	10.830	ug/l	95
7) Trichlorofluoromethane	3.055	101	62819	10.939	ug/l	94
8) Diethyl Ether	3.452	74	15517	10.381	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.811	101	34542	11.088	ug/l	99
10) Methyl Iodide	4.000	142	36146	10.021	ug/l	99
11) Tert butyl alcohol	4.866	59	7087	47.846	ug/l	95
12) 1,1-Dichloroethene	3.787	96	31073	10.701	ug/l	94
13) Acrolein	3.647	56	13091	49.243	ug/l	96
14) Allyl chloride	4.378	41	35457	10.487	ug/l	97
15) Acrylonitrile	5.055	53	26314	48.088	ug/l	96
16) Acetone	3.872	43	24497	52.492	ug/l	99
17) Carbon Disulfide	4.104	76	101496	10.962	ug/l	96
18) Methyl Acetate	4.378	43	11687	9.273	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	62306	9.587	ug/l	96
20) Methylene Chloride	4.610	84	36539	10.710	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	33752	10.379	ug/l	97
22) Diisopropyl ether	6.012	45	75451	10.028	ug/l	94
23) Vinyl Acetate	5.957	43	199753	49.260	ug/l	99
24) 1,1-Dichloroethane	5.915	63	55067	10.558	ug/l	97
25) 2-Butanone	6.890	43	31349	50.973	ug/l	100
26) 2,2-Dichloropropane	6.884	77	48501	10.610	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	37281	10.253	ug/l	99
28) Bromochloromethane	7.238	49	21122	10.426	ug/l	99
29) Tetrahydrofuran	7.262	42	18883	47.274	ug/l	100
30) Chloroform	7.414	83	61088	10.559	ug/l	99
31) Cyclohexane	7.701	56	50083	11.229	ug/l #	96
32) 1,1,1-Trichloroethane	7.616	97	55163	10.540	ug/l	97
36) 1,1-Dichloropropene	7.835	75	43496	10.604	ug/l	98
37) Ethyl Acetate	6.982	43	14895m	10.248	ug/l	
38) Carbon Tetrachloride	7.817	117	52079	10.625	ug/l	100
39) Methylcyclohexane	9.109	83	52625	10.194	ug/l	95
40) Benzene	8.079	78	133010	10.373	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021954.D
 Acq On : 22 Apr 2025 14:44
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:08:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	7906m	9.813	ug/l	
42) 1,2-Dichloroethane	8.152	62	33939	10.690	ug/l	99
43) Isopropyl Acetate	8.195	43	27087	9.574	ug/l	98
44) Trichloroethene	8.865	130	37414	10.534	ug/l	91
45) 1,2-Dichloropropane	9.140	63	29327	10.342	ug/l	98
46) Dibromomethane	9.231	93	17848	10.055	ug/l	98
47) Bromodichloromethane	9.420	83	46552	10.498	ug/l	97
48) Methyl methacrylate	9.219	41	12035	9.202	ug/l	97
49) 1,4-Dioxane	9.231	88	3781	199.843	ug/l #	96
51) 4-Methyl-2-Pentanone	9.999	43	68951	46.490	ug/l	98
52) Toluene	10.170	92	84571	10.189	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	37699	9.911	ug/l	94
54) cis-1,3-Dichloropropene	9.859	75	45133	9.982	ug/l	95
55) 1,1,2-Trichloroethane	10.572	97	24166	10.192	ug/l	98
56) Ethyl methacrylate	10.438	69	23924	8.823	ug/l	98
57) 1,3-Dichloropropane	10.719	76	38787	10.204	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.707	63	55900	42.164	ug/l	98
59) 2-Hexanone	10.761	43	44419	45.407	ug/l	97
60) Dibromochloromethane	10.914	129	32807	9.994	ug/l	99
61) 1,2-Dibromoethane	11.011	107	22427	10.019	ug/l	99
64) Tetrachloroethene	10.646	164	43205	10.944	ug/l	99
65) Chlorobenzene	11.444	112	96442	10.306	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	34237	10.392	ug/l	99
67) Ethyl Benzene	11.517	91	153977	10.058	ug/l	96
68) m/p-Xylenes	11.627	106	120544	19.789	ug/l	100
69) o-Xylene	11.956	106	53458	9.521	ug/l	98
70) Styrene	11.969	104	90382	9.588	ug/l	99
71) Bromoform	12.133	173	18480	9.648	ug/l #	99
73) Isopropylbenzene	12.255	105	144167	9.928	ug/l	100
74) N-amyl acetate	12.072	43	23058	9.242	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	24413	9.971	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	19328m	10.092	ug/l	
77) Bromobenzene	12.529	156	36127	9.845	ug/l	97
78) n-propylbenzene	12.596	91	173723	10.045	ug/l	98
79) 2-Chlorotoluene	12.682	91	101855	10.127	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	119871	10.018	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	7556	9.773	ug/l	98
82) 4-Chlorotoluene	12.779	91	108734	10.400	ug/l	100
83) tert-Butylbenzene	12.999	119	103541	9.649	ug/l	96
84) 1,2,4-Trimethylbenzene	13.042	105	118119	9.870	ug/l	100
85) sec-Butylbenzene	13.176	105	161907	10.311	ug/l	100
86) p-Isopropyltoluene	13.291	119	131120	9.834	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	77538	10.404	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	75043	10.167	ug/l	98
89) n-Butylbenzene	13.621	91	121297	10.177	ug/l	99
90) Hexachloroethane	13.877	117	30881	10.541	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	66159	10.178	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	3955	10.153	ug/l	83
93) 1,2,4-Trichlorobenzene	14.919	180	34793	9.446	ug/l	98
94) Hexachlorobutadiene	15.023	225	23698	10.457	ug/l	98
95) Naphthalene	15.145	128	48366	7.904	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	29276	9.207	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021954.D
Acq On : 22 Apr 2025 14:44
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:08:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

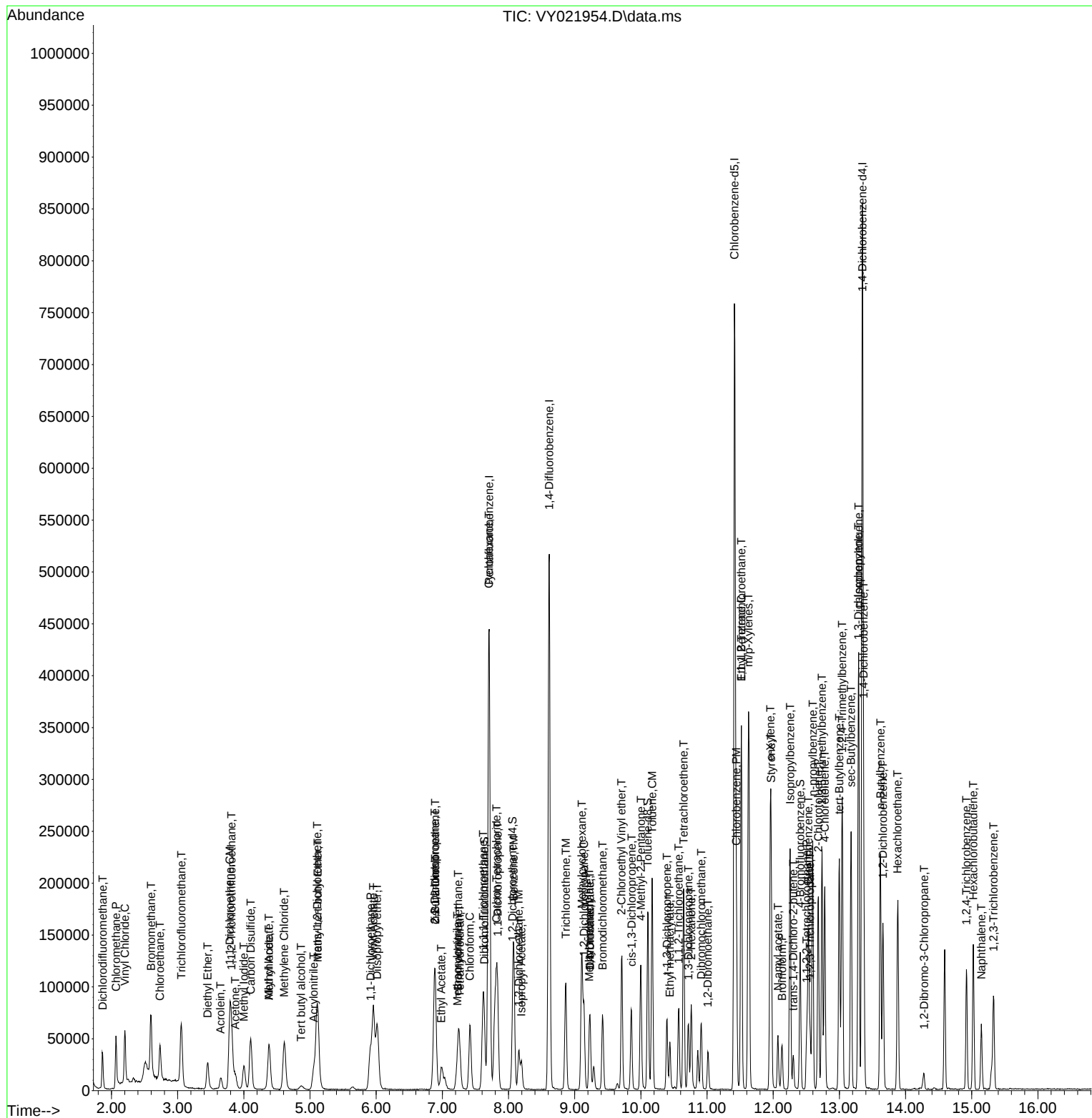
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021955.D
 Acq On : 22 Apr 2025 15:07
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:10:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	302781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	479908	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	443014	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	236548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	55629	19.891	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	39.780%#		
35) Dibromofluoromethane	7.634	113	63419	20.003	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	40.000%#		
50) Toluene-d8	10.103	98	232431	19.446	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	38.900%#		
62) 4-Bromofluorobenzene	12.408	95	77034	19.144	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	38.280%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	49065	19.018	ug/l	94
3) Chloromethane	2.062	50	76990	20.957	ug/l	99
4) Vinyl Chloride	2.202	62	91757	20.326	ug/l	100
5) Bromomethane	2.586	94	81602	20.981	ug/l	95
6) Chloroethane	2.726	64	63501	20.654	ug/l	99
7) Trichlorofluoromethane	3.050	101	119529	20.079	ug/l	97
8) Diethyl Ether	3.452	74	30609	19.755	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	64172	19.872	ug/l	99
10) Methyl Iodide	4.001	142	73189	19.575	ug/l	100
11) Tert butyl alcohol	4.866	59	16584	108.012	ug/l #	89
12) 1,1-Dichloroethene	3.787	96	58505	19.437	ug/l	97
13) Acrolein	3.653	56	30883	112.069	ug/l	98
14) Allyl chloride	4.379	41	67622	19.294	ug/l	99
15) Acrylonitrile	5.061	53	59926	105.648	ug/l	98
16) Acetone	3.873	43	40190	96.689	ug/l	94
17) Carbon Disulfide	4.098	76	189988	19.796	ug/l	95
18) Methyl Acetate	4.385	43	27988	21.423	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	133523	19.820	ug/l	98
20) Methylene Chloride	4.610	84	69571	19.673	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	64547	19.148	ug/l	92
22) Diisopropyl ether	6.012	45	159414	20.439	ug/l	96
23) Vinyl Acetate	5.958	43	424128	100.901	ug/l	100
24) 1,1-Dichloroethane	5.915	63	108156	20.006	ug/l	99
25) 2-Butanone	6.896	43	65464	102.688	ug/l	96
26) 2,2-Dichloropropane	6.878	77	92415	19.503	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	73114	19.398	ug/l	97
28) Bromochloromethane	7.244	49	44154	21.027	ug/l	99
29) Tetrahydrofuran	7.262	42	43665	105.459	ug/l	99
30) Chloroform	7.421	83	117934	19.666	ug/l	97
31) Cyclohexane	7.701	56	89380	19.333	ug/l	91
32) 1,1,1-Trichloroethane	7.610	97	108468	19.993	ug/l	98
36) 1,1-Dichloropropene	7.835	75	81459	19.127	ug/l	99
37) Ethyl Acetate	6.982	43	31319	20.755	ug/l	99
38) Carbon Tetrachloride	7.817	117	98308	19.318	ug/l	98
39) Methylcyclohexane	9.109	83	99570	18.578	ug/l	95
40) Benzene	8.079	78	259371	19.482	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021955.D
 Acq On : 22 Apr 2025 15:07
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:10:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.238	41	19946m	23.846	ug/l	
42) 1,2-Dichloroethane	8.158	62	67235	20.398	ug/l	100
43) Isopropyl Acetate	8.195	43	60204	20.495	ug/l #	87
44) Trichloroethene	8.866	130	70896	19.226	ug/l	96
45) 1,2-Dichloropropane	9.140	63	57934	19.678	ug/l	98
46) Dibromomethane	9.225	93	36893	20.018	ug/l	97
47) Bromodichloromethane	9.420	83	89049	19.341	ug/l	99
48) Methyl methacrylate	9.219	41	28211	20.775	ug/l	97
49) 1,4-Dioxane	9.237	88	8497	432.566	ug/l	96
51) 4-Methyl-2-Pentanone	9.999	43	159902	103.844	ug/l	99
52) Toluene	10.170	92	168035	19.499	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	76629	19.404	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	92726	19.753	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	50105	20.353	ug/l	99
56) Ethyl methacrylate	10.438	69	55703	19.786	ug/l	99
57) 1,3-Dichloropropane	10.713	76	77652	19.676	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	140435	102.027	ug/l	99
59) 2-Hexanone	10.762	43	104321	102.714	ug/l	98
60) Dibromochloromethane	10.908	129	67988	19.948	ug/l	99
61) 1,2-Dibromoethane	11.012	107	46699	20.093	ug/l	98
64) Tetrachloroethene	10.646	164	81915	19.600	ug/l	98
65) Chlorobenzene	11.438	112	186901	18.866	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	66586	19.091	ug/l	99
67) Ethyl Benzene	11.518	91	304501	18.789	ug/l	99
68) m/p-Xylenes	11.627	106	247677	38.407	ug/l	99
69) o-Xylene	11.956	106	112603	18.945	ug/l	100
70) Styrene	11.969	104	191106	19.149	ug/l	99
71) Bromoform	12.133	173	39690	19.573	ug/l #	98
73) Isopropylbenzene	12.255	105	293481	18.570	ug/l	100
74) N-amyl acetate	12.072	43	52325	19.271	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	52524	19.713	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	39530m	18.965	ug/l	
77) Bromobenzene	12.530	156	73838	18.490	ug/l	97
78) n-propylbenzene	12.597	91	357438	18.992	ug/l	99
79) 2-Chlorotoluene	12.676	91	206212	18.840	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	247372	18.997	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	16123	19.163	ug/l	96
82) 4-Chlorotoluene	12.773	91	214776	18.876	ug/l	100
83) tert-Butylbenzene	12.999	119	214149	18.337	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	248902	19.110	ug/l	99
85) sec-Butylbenzene	13.176	105	322522	18.873	ug/l	100
86) p-Isopropyltoluene	13.292	119	271440	18.706	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	150873	18.602	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	151864	18.905	ug/l	99
89) n-Butylbenzene	13.615	91	240816	18.566	ug/l	98
90) Hexachloroethane	13.877	117	58060	18.211	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	135650	19.175	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8864	20.910	ug/l	89
93) 1,2,4-Trichlorobenzene	14.919	180	74289	18.532	ug/l	99
94) Hexachlorobutadiene	15.023	225	45722	18.538	ug/l	98
95) Naphthalene	15.145	128	121454	18.238	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	64735	18.707	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021955.D
Acq On : 22 Apr 2025 15:07
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:10:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

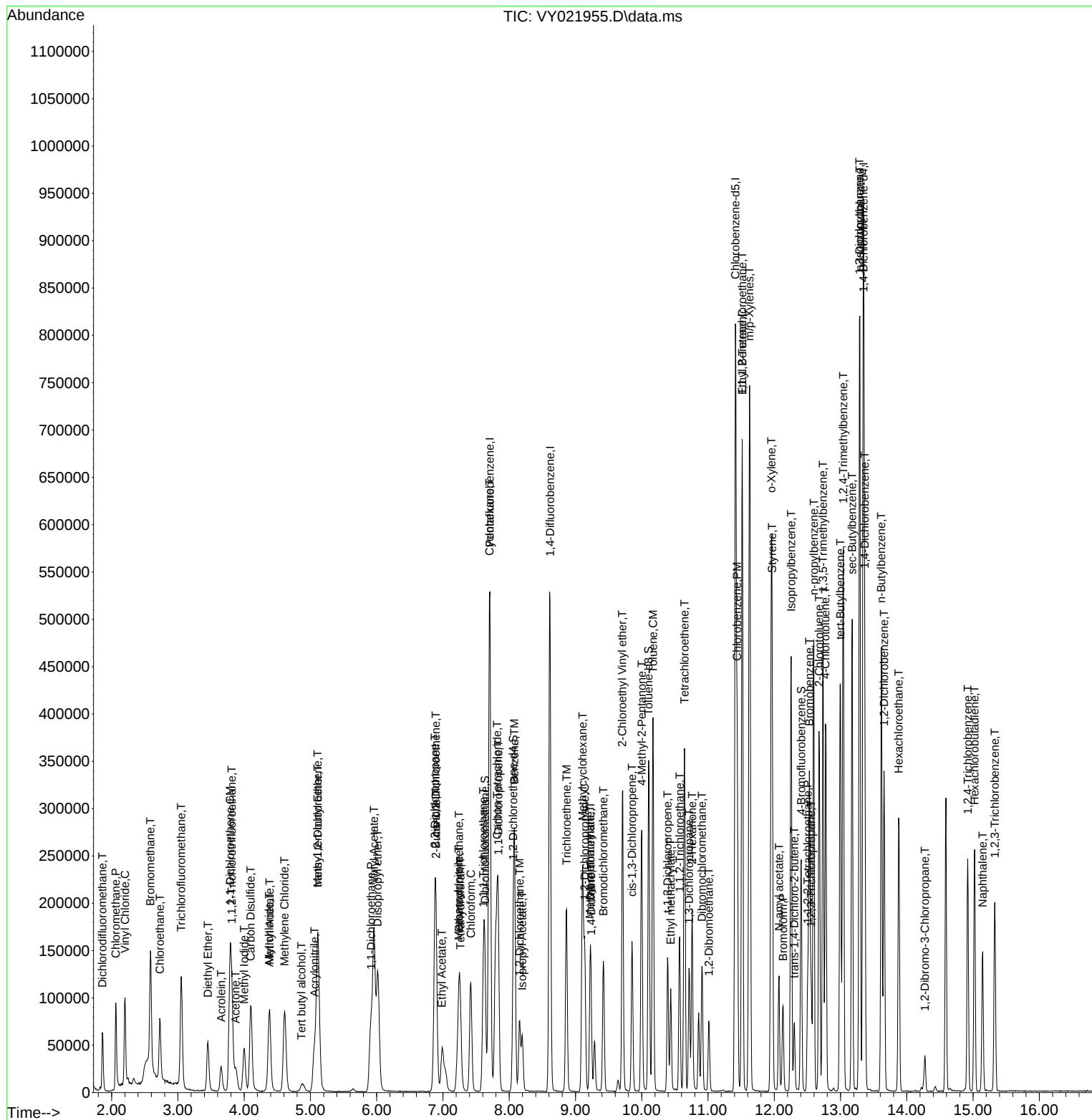
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021956.D
 Acq On : 22 Apr 2025 15:29
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	321453	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	499724	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	458508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	245926	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	149695	50.416	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.840%			
35) Dibromofluoromethane	7.634	113	164867	49.938	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.880%			
50) Toluene-d8	10.103	98	637767	51.241	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.480%			
62) 4-Bromofluorobenzene	12.402	95	212936	50.820	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.640%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	126242	46.089	ug/l	100
3) Chloromethane	2.062	50	193657	49.653	ug/l	100
4) Vinyl Chloride	2.196	62	234756	48.981	ug/l	100
5) Bromomethane	2.592	94	191530	46.385	ug/l	100
6) Chloroethane	2.733	64	158887	48.677	ug/l	100
7) Trichlorofluoromethane	3.050	101	308523	48.817	ug/l	100
8) Diethyl Ether	3.452	74	79512	48.337	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	157297	45.881	ug/l	100
10) Methyl Iodide	4.001	142	202276	50.959	ug/l	100
11) Tert butyl alcohol	4.879	59	41968	257.462	ug/l	100
12) 1,1-Dichloroethene	3.787	96	151531	47.419	ug/l	100
13) Acrolein	3.653	56	68275	233.366	ug/l	100
14) Allyl chloride	4.379	41	178559	47.988	ug/l	100
15) Acrylonitrile	5.055	53	150181	249.387	ug/l	100
16) Acetone	3.879	43	101417	261.973	ug/l	100
17) Carbon Disulfide	4.098	76	479842	47.094	ug/l	100
18) Methyl Acetate	4.385	43	71756	51.735	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	364107	50.907	ug/l	100
20) Methylene Chloride	4.610	84	171472	45.671	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	171054	47.796	ug/l	100
22) Diisopropyl ether	6.019	45	414816	50.096	ug/l	100
23) Vinyl Acetate	5.958	43	1151100	257.942	ug/l	100
24) 1,1-Dichloroethane	5.915	63	274136	47.762	ug/l	100
25) 2-Butanone	6.896	43	169727	250.772	ug/l	100
26) 2,2-Dichloropropane	6.884	77	238816	47.472	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	196712	49.157	ug/l	100
28) Bromochloromethane	7.244	49	110399	49.520	ug/l	100
29) Tetrahydrofuran	7.262	42	117311	266.870	ug/l	100
30) Chloroform	7.421	83	307243	48.259	ug/l	100
31) Cyclohexane	7.701	56	227735	46.398	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	274062	47.581	ug/l	100
36) 1,1-Dichloropropene	7.835	75	212523	47.923	ug/l	100
37) Ethyl Acetate	6.982	43	80627	51.312	ug/l	100
38) Carbon Tetrachloride	7.817	117	253502	47.838	ug/l	100
39) Methylcyclohexane	9.109	83	274408	49.170	ug/l	100
40) Benzene	8.079	78	667899	48.179	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021956.D
 Acq On : 22 Apr 2025 15:29
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
 Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	45898	52.696	ug/l	100
42) 1,2-Dichloroethane	8.158	62	167612	48.835	ug/l	100
43) Isopropyl Acetate	8.195	43	155835	50.948	ug/l	100
44) Trichloroethene	8.860	130	183327	47.744	ug/l	100
45) 1,2-Dichloropropane	9.140	63	149687	48.827	ug/l	100
46) Dibromomethane	9.231	93	93536	48.740	ug/l	100
47) Bromodichloromethane	9.420	83	234964	49.010	ug/l	100
48) Methyl methacrylate	9.219	41	75057	53.082	ug/l	100
49) 1,4-Dioxane	9.238	88	20303	992.601	ug/l	100
51) 4-Methyl-2-Pentanone	10.000	43	428635	267.326	ug/l	100
52) Toluene	10.170	92	446525	49.760	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	208479	50.698	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	241637	49.432	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	128082	49.965	ug/l	100
56) Ethyl methacrylate	10.439	69	157986	53.893	ug/l	100
57) 1,3-Dichloropropane	10.713	76	204196	49.688	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	401030	279.797	ug/l	100
59) 2-Hexanone	10.762	43	286755	271.141	ug/l	100
60) Dibromochloromethane	10.908	129	176120	49.624	ug/l	100
61) 1,2-Dibromoethane	11.012	107	120604	49.835	ug/l	100
64) Tetrachloroethene	10.646	164	208756	48.263	ug/l	100
65) Chlorobenzene	11.438	112	496647	48.437	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	177151	49.075	ug/l	100
67) Ethyl Benzene	11.518	91	841384	50.163	ug/l	100
68) m/p-Xylenes	11.627	106	673159	100.858	ug/l	100
69) o-Xylene	11.950	106	315731	51.325	ug/l	100
70) Styrene	11.969	104	535957	51.890	ug/l	100
71) Bromoform	12.133	173	105166	50.110	ug/l #	100
73) Isopropylbenzene	12.255	105	817740	49.770	ug/l	100
74) N-amyl acetate	12.066	43	145415	51.512	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	134856	48.682	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	99679m	45.999	ug/l	
77) Bromobenzene	12.530	156	203522	49.021	ug/l	100
78) n-propylbenzene	12.591	91	977958	49.981	ug/l	100
79) 2-Chlorotoluene	12.676	91	560805	49.283	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	688578	50.863	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	43472	49.698	ug/l	100
82) 4-Chlorotoluene	12.773	91	585277	49.478	ug/l	100
83) tert-Butylbenzene	12.993	119	613293	50.513	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	684634	50.560	ug/l	100
85) sec-Butylbenzene	13.176	105	885790	49.857	ug/l	100
86) p-Isopropyltoluene	13.292	119	760829	50.431	ug/l	100
87) 1,3-Dichlorobenzene	13.286	146	405153	48.048	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	398336	47.697	ug/l	100
89) n-Butylbenzene	13.615	91	674346	50.008	ug/l	100
90) Hexachloroethane	13.877	117	156957	47.353	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	357028	48.544	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	20698	46.964	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	202386	48.561	ug/l	100
94) Hexachlorobutadiene	15.023	225	117976	46.009	ug/l	100
95) Naphthalene	15.139	128	353130	51.007	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	173778	48.304	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021956.D
Acq On : 22 Apr 2025 15:29
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

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

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

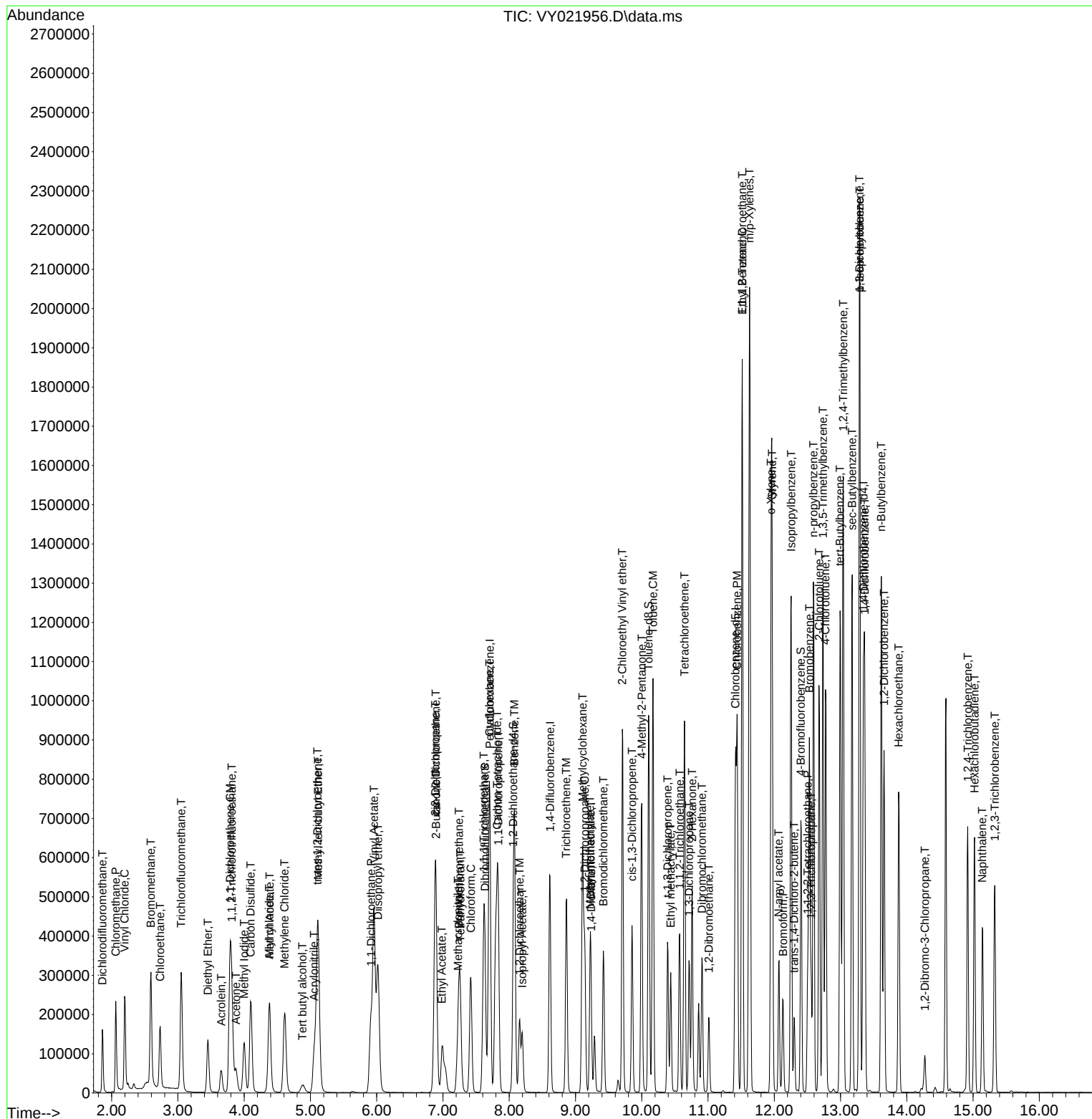
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021956.D
Acq On : 22 Apr 2025 15:29
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021957.D
 Acq On : 22 Apr 2025 15:52
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:12:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	344392	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	517970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	479774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	253936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	287743	90.454	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 180.900%#			
35) Dibromofluoromethane	7.634	113	329983	96.430	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 192.860%#			
50) Toluene-d8	10.103	98	1288287	99.860	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 199.720%#			
62) 4-Bromofluorobenzene	12.402	95	437911	100.832	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 201.660%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	280742	95.668	ug/l	99
3) Chloromethane	2.068	50	364659	87.270	ug/l	99
4) Vinyl Chloride	2.202	62	468044	91.152	ug/l	100
5) Bromomethane	2.586	94	381632	86.267	ug/l	98
6) Chloroethane	2.733	64	317008	90.651	ug/l	98
7) Trichlorofluoromethane	3.050	101	634632	93.728	ug/l	97
8) Diethyl Ether	3.452	74	169496	96.177	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	342220	93.171	ug/l	99
10) Methyl Iodide	4.001	142	448644	105.498	ug/l	100
11) Tert butyl alcohol	4.872	59	79446	454.915	ug/l	97
12) 1,1-Dichloroethene	3.787	96	335292	97.935	ug/l	98
13) Acrolein	3.647	56	137299	438.034	ug/l	97
14) Allyl chloride	4.379	41	395924	99.318	ug/l	99
15) Acrylonitrile	5.055	53	303243	470.017	ug/l	100
16) Acetone	3.873	43	198486	497.873	ug/l	92
17) Carbon Disulfide	4.104	76	1044296	95.665	ug/l	99
18) Methyl Acetate	4.385	43	142939	96.193	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	785760	102.542	ug/l	97
20) Methylene Chloride	4.610	84	356477	88.623	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	376278	98.137	ug/l	97
22) Diisopropyl ether	6.019	45	895700	100.965	ug/l	98
23) Vinyl Acetate	5.958	43	2455946	513.679	ug/l	99
24) 1,1-Dichloroethane	5.909	63	589137	95.806	ug/l	98
25) 2-Butanone	6.890	43	342128	471.826	ug/l	99
26) 2,2-Dichloropropane	6.884	77	530549	98.439	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	436196	101.743	ug/l	100
28) Bromochloromethane	7.244	49	221300	92.652	ug/l	97
29) Tetrahydrofuran	7.262	42	228438	485.059	ug/l	96
30) Chloroform	7.421	83	659805	96.733	ug/l	100
31) Cyclohexane	7.701	56	502812	95.618	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	595919	96.568	ug/l	99
36) 1,1-Dichloropropene	7.835	75	466424	101.471	ug/l	99
37) Ethyl Acetate	6.982	43	158846	97.530	ug/l	98
38) Carbon Tetrachloride	7.817	117	554665	100.983	ug/l	97
39) Methylcyclohexane	9.109	83	621199	107.388	ug/l	98
40) Benzene	8.079	78	1466182	102.038	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021957.D
 Acq On : 22 Apr 2025 15:52
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:12:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	84524	93.624	ug/l #	89
42) 1,2-Dichloroethane	8.158	62	348314	97.908	ug/l	100
43) Isopropyl Acetate	8.195	43	319666	100.828	ug/l	98
44) Trichloroethene	8.866	130	401139	100.789	ug/l	99
45) 1,2-Dichloropropane	9.140	63	318648	100.279	ug/l	99
46) Dibromomethane	9.231	93	197509	99.293	ug/l	99
47) Bromodichloromethane	9.420	83	507797	102.188	ug/l	99
48) Methyl methacrylate	9.219	41	155528	106.117	ug/l	97
49) 1,4-Dioxane	9.231	88	43176	2036.490	ug/l	99
51) 4-Methyl-2-Pentanone	9.999	43	859904	517.403	ug/l	99
52) Toluene	10.170	92	986553	106.068	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	452714	106.213	ug/l	97
54) cis-1,3-Dichloropropene	9.853	75	532092	105.017	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	267477	100.667	ug/l	99
56) Ethyl methacrylate	10.438	69	343556	113.068	ug/l	100
57) 1,3-Dichloropropane	10.713	76	432340	101.498	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	796991	536.469	ug/l	99
59) 2-Hexanone	10.762	43	573925	523.558	ug/l	99
60) Dibromochloromethane	10.908	129	380014	103.302	ug/l	99
61) 1,2-Dibromoethane	11.012	107	256079	102.087	ug/l	98
64) Tetrachloroethene	10.646	164	446995	98.761	ug/l	99
65) Chlorobenzene	11.438	112	1092542	101.831	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	384924	101.907	ug/l	99
67) Ethyl Benzene	11.518	91	1909638	108.806	ug/l	100
68) m/p-Xylenes	11.627	106	1528954	218.926	ug/l	98
69) o-Xylene	11.956	106	716652	111.334	ug/l	99
70) Styrene	11.969	104	1220634	112.940	ug/l	99
71) Bromoform	12.133	173	226072	102.945	ug/l #	98
73) Isopropylbenzene	12.255	105	1848306	108.944	ug/l	99
74) N-amyl acetate	12.066	43	312577	107.236	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	281769	98.509	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	207056m	92.537	ug/l	
77) Bromobenzene	12.530	156	451913	105.415	ug/l	98
78) n-propylbenzene	12.597	91	2162620	107.039	ug/l	99
79) 2-Chlorotoluene	12.676	91	1236457	105.231	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	1512269	108.183	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	91833	101.673	ug/l	97
82) 4-Chlorotoluene	12.773	91	1280377	104.825	ug/l	99
83) tert-Butylbenzene	12.993	119	1383923	110.389	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	1537175	109.940	ug/l	99
85) sec-Butylbenzene	13.176	105	1979821	107.920	ug/l	100
86) p-Isopropyltoluene	13.292	119	1719877	110.405	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	908577	104.350	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	880300	102.083	ug/l	99
89) n-Butylbenzene	13.615	91	1511238	108.535	ug/l	99
90) Hexachloroethane	13.877	117	349860	102.221	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	780600	102.789	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	43006	94.503	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	492590	114.465	ug/l	100
94) Hexachlorobutadiene	15.023	225	281711	106.397	ug/l	99
95) Naphthalene	15.145	128	858079	120.033	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	420859	113.294	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021957.D
Acq On : 22 Apr 2025 15:52
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:12:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

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

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

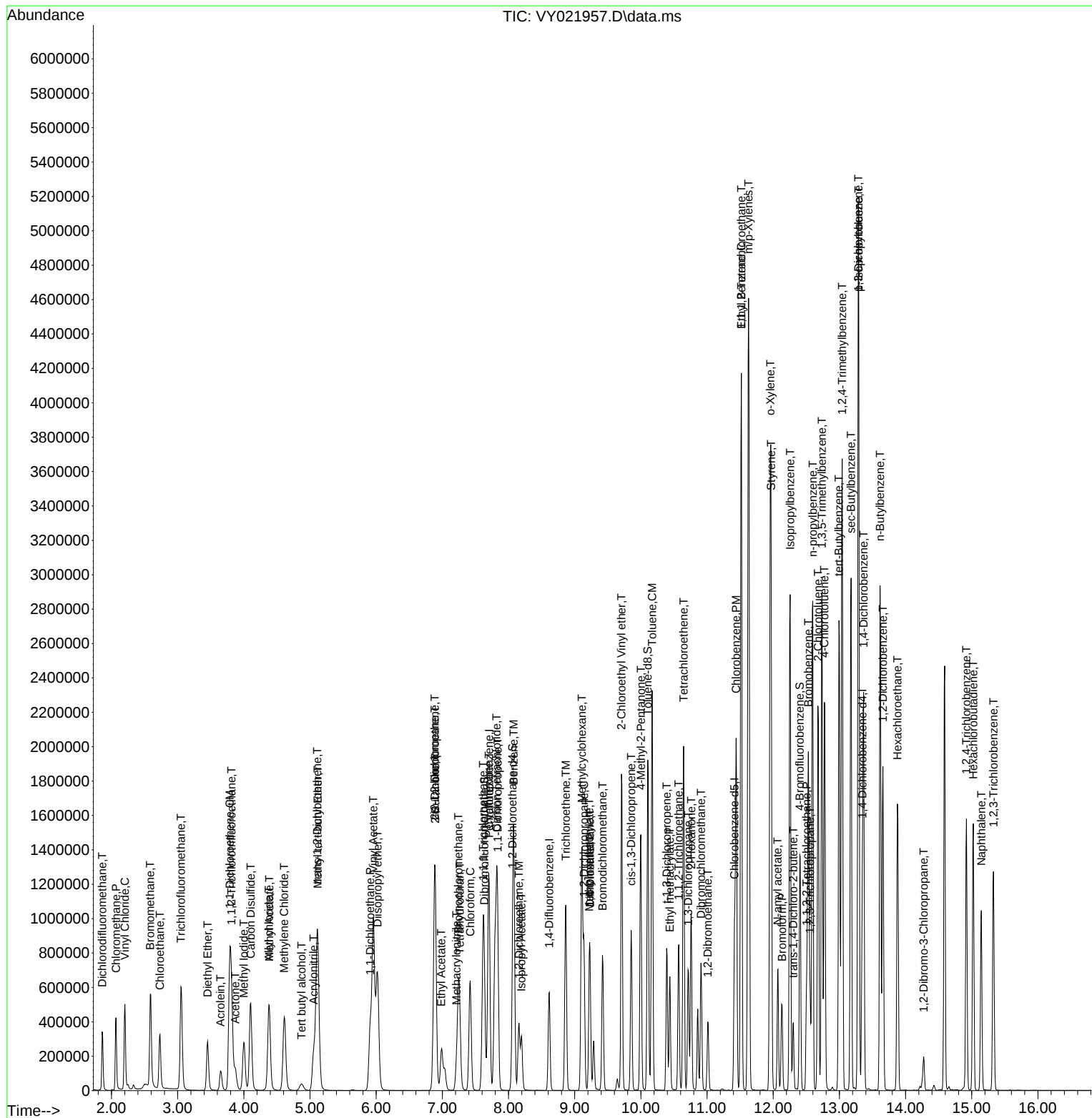
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021957.D
 Acq On : 22 Apr 2025 15:52
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 23 02:12:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021958.D
 Acq On : 22 Apr 2025 16:15
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:13:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	355777	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	536479	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	502246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	256233	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	455676	138.662	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 277.320%#	
35) Dibromofluoromethane	7.634	113	525659	148.312	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 296.620%#	
50) Toluene-d8	10.103	98	2029557	151.892	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 303.780%#	
62) 4-Bromofluorobenzene	12.402	95	688061	152.965	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 305.940%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	431961	142.488	ug/l	99
3) Chloromethane	2.068	50	531232	123.066	ug/l	98
4) Vinyl Chloride	2.202	62	690264	130.127	ug/l	99
5) Bromomethane	2.580	94	587136	128.474	ug/l	100
6) Chloroethane	2.727	64	457467	126.630	ug/l	100
7) Trichlorofluoromethane	3.050	101	968200	138.417	ug/l	98
8) Diethyl Ether	3.452	74	256284	140.770	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	520779	137.247	ug/l	99
10) Methyl Iodide	4.001	142	670370	152.592	ug/l	99
11) Tert butyl alcohol	4.866	59	132009	731.707	ug/l	98
12) 1,1-Dichloroethene	3.781	96	516411	146.010	ug/l	99
13) Acrolein	3.647	56	224148	692.230	ug/l	97
14) Allyl chloride	4.379	41	595004	144.481	ug/l	99
15) Acrylonitrile	5.055	53	471687	707.705	ug/l	99
16) Acetone	3.873	43	303420	747.934	ug/l	93
17) Carbon Disulfide	4.098	76	1556842	138.054	ug/l	99
18) Methyl Acetate	4.379	43	233664	152.216	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	1210655	152.936	ug/l	98
20) Methylene Chloride	4.610	84	526924	126.805	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	568174	143.443	ug/l	96
22) Diisopropyl ether	6.019	45	1331652	145.303	ug/l	99
23) Vinyl Acetate	5.958	43	3706076	750.348	ug/l	99
24) 1,1-Dichloroethane	5.909	63	881143	138.707	ug/l	98
25) 2-Butanone	6.890	43	533125	711.701	ug/l	98
26) 2,2-Dichloropropane	6.884	77	797978	143.320	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	663284	149.760	ug/l	99
28) Bromochloromethane	7.244	49	335269	135.876	ug/l	93
29) Tetrahydrofuran	7.262	42	357581	734.980	ug/l	95
30) Chloroform	7.421	83	986793	140.042	ug/l	98
31) Cyclohexane	7.701	56	759349	139.782	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	903077	141.659	ug/l	99
36) 1,1-Dichloropropene	7.835	75	702870	147.634	ug/l	99
37) Ethyl Acetate	6.982	43	243196	144.169	ug/l	98
38) Carbon Tetrachloride	7.817	117	841409	147.902	ug/l	99
39) Methylcyclohexane	9.103	83	947546	158.153	ug/l	97
40) Benzene	8.079	78	2184995	146.818	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
 Data File : VY021958.D
 Acq On : 22 Apr 2025 16:15
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/23/2025
 Supervised By : Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:13:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:02:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.214	41	135364	144.765	ug/l #	90
42) 1,2-Dichloroethane	8.152	62	522909	141.914	ug/l	100
43) Isopropyl Acetate	8.195	43	495904	151.020	ug/l #	85
44) Trichloroethene	8.866	130	603635	146.435	ug/l	99
45) 1,2-Dichloropropane	9.140	63	473210	143.782	ug/l	100
46) Dibromomethane	9.225	93	300473	145.844	ug/l	99
47) Bromodichloromethane	9.420	83	758771	147.426	ug/l	100
48) Methyl methacrylate	9.219	41	243168	160.190	ug/l	97
49) 1,4-Dioxane	9.225	88	66528	3029.677	ug/l	99
51) 4-Methyl-2-Pentanone	9.994	43	1331129	773.306	ug/l	99
52) Toluene	10.170	92	1470005	152.593	ug/l	98
53) t-1,3-Dichloropropene	10.390	75	683926	154.922	ug/l	96
54) cis-1,3-Dichloropropene	9.853	75	804716	153.345	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	405335	147.287	ug/l	99
56) Ethyl methacrylate	10.439	69	530305	168.507	ug/l	99
57) 1,3-Dichloropropane	10.713	76	650614	147.471	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	1292633	840.076	ug/l	98
59) 2-Hexanone	10.756	43	896663	789.752	ug/l	99
60) Dibromochloromethane	10.908	129	574423	150.763	ug/l	100
61) 1,2-Dibromoethane	11.012	107	386950	148.938	ug/l	100
64) Tetrachloroethene	10.646	164	648295	136.828	ug/l	99
65) Chlorobenzene	11.438	112	1644879	146.452	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	584913	147.925	ug/l	100
67) Ethyl Benzene	11.518	91	2859582	155.641	ug/l	99
68) m/p-Xylenes	11.627	106	2270756	310.594	ug/l	99
69) o-Xylene	11.950	106	1079036	160.131	ug/l	99
70) Styrene	11.969	104	1821333	160.979	ug/l	100
71) Bromoform	12.127	173	345783	150.413	ug/l #	99
73) Isopropylbenzene	12.255	105	2766822	161.622	ug/l	99
74) N-amyl acetate	12.066	43	481095	163.570	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	428838	148.581	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	304860m	135.026	ug/l	
77) Bromobenzene	12.530	156	677176	156.545	ug/l	98
78) n-propylbenzene	12.591	91	3191904	156.567	ug/l	99
79) 2-Chlorotoluene	12.676	91	1838218	155.043	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	2227887	157.948	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	138838	152.337	ug/l	98
82) 4-Chlorotoluene	12.774	91	1879346	152.484	ug/l	99
83) tert-Butylbenzene	12.993	119	2076003	164.108	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	2263509	160.437	ug/l	100
85) sec-Butylbenzene	13.176	105	2910397	157.224	ug/l	99
86) p-Isopropyltoluene	13.292	119	2552924	162.413	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	1339029	152.409	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	1293200	148.621	ug/l	98
89) n-Butylbenzene	13.615	91	2244063	159.720	ug/l	99
90) Hexachloroethane	13.877	117	520392	150.683	ug/l	98
91) 1,2-Dichlorobenzene	13.658	146	1156637	150.940	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	66731	145.323	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	737198	169.770	ug/l	99
94) Hexachlorobutadiene	15.023	225	417808	156.384	ug/l	99
95) Naphthalene	15.145	128	1336140	185.231	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	634152	169.182	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021958.D
Acq On : 22 Apr 2025 16:15
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025

Quant Time: Apr 23 02:13:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:02:03 2025
Response via : Initial Calibration

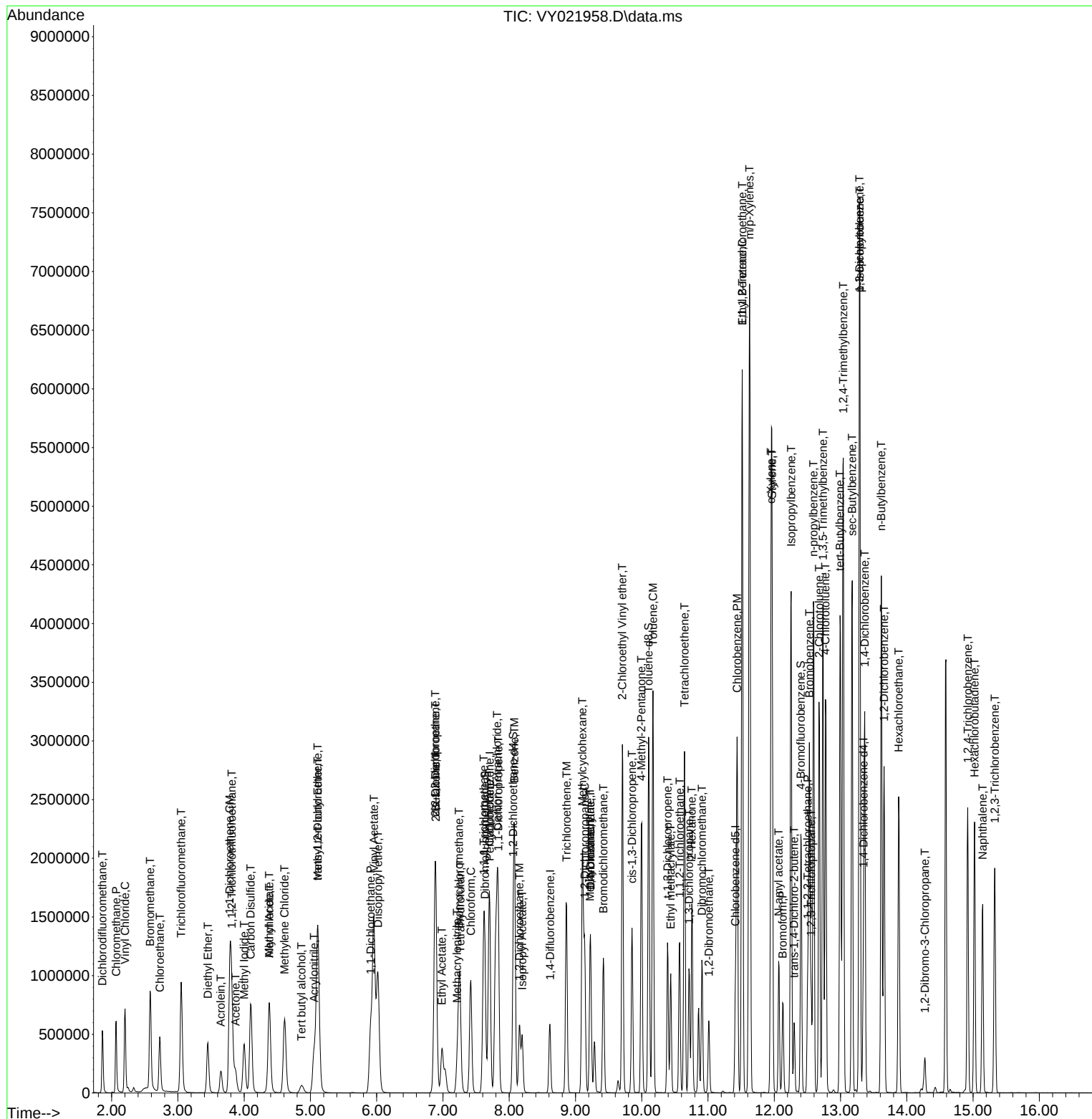
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/23/2025
Supervised By :Mahesh Dadoda 04/23/2025





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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: Q1903 SAS No.: Q1903 SDG No.: Q1903

Instrument ID: MSVOA_Y Calibration Date/Time: 04/29/2025 09:28

Lab File ID: VY022046.D Init. Calib. Date(s): 04/22/2025 04/22/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 13:39 16:15

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.622	0.558		-10.29	20
1,1,1-Trichloroethane	0.896	0.789		-11.94	20
Benzene	1.387	1.301		-6.2	20
Trichloroethene	0.384	0.360		-6.25	20
Toluene	0.898	0.870		-3.12	20
Ethyl Benzene	1.829	1.744		-4.65	20
m/p-Xylenes	0.728	0.712		-2.2	20
o-Xylene	0.671	0.649		-3.28	20
Isopropylbenzene	3.341	3.152		-5.66	20
1,2-Dichloroethane-d4	0.462	0.402		-12.99	20
Dibromofluoromethane	0.330	0.314		-4.85	20
Toluene-d8	1.245	1.202		-3.45	20
4-Bromofluorobenzene	0.419	0.404		-3.58	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_Y\Data\VY042925\
 Data File : VY022046.D
 Acq On : 29 Apr 2025 09:28
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/30/2025
 Supervised By : Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	330337	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	485397	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	453549	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	245911	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	132828	43.532	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	87.060%		
35) Dibromofluoromethane	7.634	113	152279	47.486	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.980%		
50) Toluene-d8	10.109	98	583606	48.273	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.540%		
62) 4-Bromofluorobenzene	12.408	95	195893	48.133	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	96.260%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	122464	43.507	ug/l	99
3) Chloromethane	2.068	50	175705	43.839	ug/l	99
4) Vinyl Chloride	2.202	62	219850	44.638	ug/l	99
5) Bromomethane	2.598	94	169641	39.979	ug/l	95
6) Chloroethane	2.732	64	141865	42.293	ug/l	98
7) Trichlorofluoromethane	3.056	101	282628	43.517	ug/l	97
8) Diethyl Ether	3.452	74	71445	42.265	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	153834	43.664	ug/l	99
10) Methyl Iodide	4.001	142	189693	46.504	ug/l	100
11) Tert butyl alcohol	4.872	59	37456	223.602	ug/l	99
12) 1,1-Dichloroethene	3.787	96	145943	44.442	ug/l	98
13) Acrolein	3.653	56	70343	233.968	ug/l	98
14) Allyl chloride	4.385	41	165590	43.306	ug/l	99
15) Acrylonitrile	5.061	53	138019	223.027	ug/l	99
16) Acetone	3.873	43	107650	271.364	ug/l	93
17) Carbon Disulfide	4.104	76	451363	43.107	ug/l	99
18) Methyl Acetate	4.391	43	68974	48.392	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	333065	45.315	ug/l	97
20) Methylene Chloride	4.616	84	154498	40.043	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	161542	43.924	ug/l	98
22) Diisopropyl ether	6.019	45	382029	44.895	ug/l	99
23) Vinyl Acetate	5.958	43	1039804	226.736	ug/l	99
24) 1,1-Dichloroethane	5.915	63	256272	43.448	ug/l	99
25) 2-Butanone	6.896	43	161708	232.499	ug/l	99
26) 2,2-Dichloropropane	6.884	77	234207	45.304	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	184250	44.805	ug/l	99
28) Bromochloromethane	7.244	49	106431	46.456	ug/l	97
29) Tetrahydrofuran	7.262	42	104861	232.133	ug/l	97
30) Chloroform	7.421	83	289823	44.298	ug/l	99
31) Cyclohexane	7.701	56	218435	43.306	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	260780	44.057	ug/l	99
36) 1,1-Dichloropropene	7.835	75	200053	46.442	ug/l	99
37) Ethyl Acetate	6.988	43	73636	47.597	ug/l	99
38) Carbon Tetrachloride	7.817	117	247130	48.012	ug/l	97
39) Methylcyclohexane	9.109	83	256540	47.325	ug/l	97
40) Benzene	8.079	78	631609	46.906	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
 Data File : VY022046.D
 Acq On : 29 Apr 2025 09:28
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	35008	41.395	ug/l #	84
42) 1,2-Dichloroethane	8.158	62	154947	46.477	ug/l	99
43) Isopropyl Acetate	8.195	43	137822	46.389	ug/l #	85
44) Trichloroethene	8.866	130	174874	46.887	ug/l	98
45) 1,2-Dichloropropane	9.140	63	139252	46.764	ug/l	99
46) Dibromomethane	9.231	93	87764	47.082	ug/l	99
47) Bromodichloromethane	9.426	83	221624	47.592	ug/l	99
48) Methyl methacrylate	9.219	41	67675	49.274	ug/l	98
49) 1,4-Dioxane	9.231	88	19815	997.336	ug/l	91
51) 4-Methyl-2-Pentanone	9.999	43	390782	250.912	ug/l	100
52) Toluene	10.170	92	422459	48.468	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	190842	47.779	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	224035	47.184	ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	119964	48.179	ug/l	97
56) Ethyl methacrylate	10.438	69	142098	49.904	ug/l	99
57) 1,3-Dichloropropane	10.719	76	191688	48.021	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	367778	264.171	ug/l	99
59) 2-Hexanone	10.762	43	264521	257.500	ug/l	100
60) Dibromochloromethane	10.914	129	169164	49.071	ug/l	100
61) 1,2-Dibromoethane	11.018	107	114653	48.774	ug/l	99
64) Tetrachloroethene	10.646	164	203863	47.647	ug/l	97
65) Chlorobenzene	11.444	112	468931	46.234	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	166562	46.647	ug/l	99
67) Ethyl Benzene	11.524	91	791052	47.678	ug/l	100
68) m/p-Xylenes	11.627	106	645425	97.760	ug/l	99
69) o-Xylene	11.956	106	294487	48.395	ug/l	98
70) Styrene	11.969	104	503254	49.256	ug/l	99
71) Bromoform	12.133	173	101395	48.842	ug/l #	99
73) Isopropylbenzene	12.255	105	775025	47.173	ug/l	99
74) N-amyl acetate	12.072	43	128926	45.674	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	127155	45.905	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	99193m	47.092	ug/l	
77) Bromobenzene	12.536	156	195202	47.020	ug/l	98
78) n-propylbenzene	12.597	91	925377	47.296	ug/l	100
79) 2-Chlorotoluene	12.682	91	525989	46.226	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	647472	47.830	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	40197	45.956	ug/l	99
82) 4-Chlorotoluene	12.779	91	555774	46.986	ug/l	100
83) tert-Butylbenzene	12.999	119	573871	47.269	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	648390	47.887	ug/l	99
85) sec-Butylbenzene	13.176	105	843779	47.496	ug/l	100
86) p-Isopropyltoluene	13.292	119	728842	48.314	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	390607	46.325	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	386869	46.327	ug/l	98
89) n-Butylbenzene	13.621	91	630349	46.748	ug/l	99
90) Hexachloroethane	13.883	117	150746	45.482	ug/l	98
91) 1,2-Dichlorobenzene	13.663	146	338387	46.013	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	19628	44.539	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	197372	47.361	ug/l	99
94) Hexachlorobutadiene	15.023	225	118961	46.396	ug/l	99
95) Naphthalene	15.145	128	337462	48.746	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	172242	47.880	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

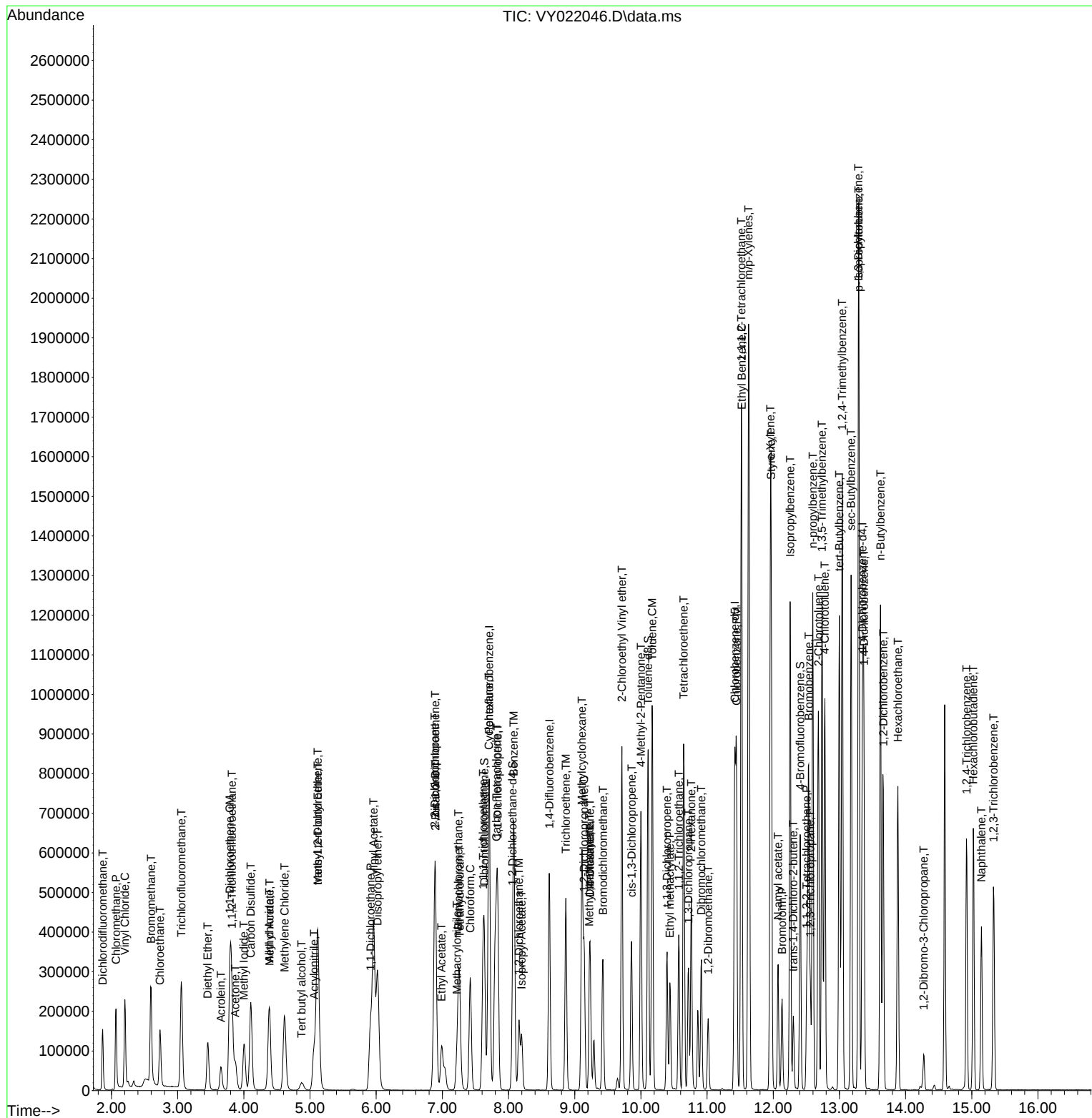
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
 Data File : VY022046.D
 Acq On : 29 Apr 2025 09:28
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 30 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 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	103	0.00
2 T	Dichlorodifluoromethane	0.426	0.371	12.9	97	0.00
3 P	Chloromethane	0.607	0.532	12.4	91	0.00
4 C	Vinyl Chloride	0.745	0.666	10.6#	94	0.00
5 T	Bromomethane	0.642	0.514	19.9	89	0.00
6 T	Chloroethane	0.508	0.429	15.6	89	0.00
7 T	Trichlorofluoromethane	0.983	0.856	12.9	92	0.00
8 T	Diethyl Ether	0.256	0.216	15.6	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.533	0.466	12.6	98	0.00
10 T	Methyl Iodide	0.617	0.574	7.0	94	0.00
11 T	Tert butyl alcohol	0.025	0.023	8.0	89	0.00
12 CM	1,1-Dichloroethene	0.497	0.442	11.1#	96	0.00
13 T	Acrolein	0.046	0.043	6.5	103	0.00
14 T	Allyl chloride	0.579	0.501	13.5	93	0.00
15 T	Acrylonitrile	0.094	0.084	10.6	92	0.00
16 T	Acetone	0.070	0.065	7.1	106	0.00
17 T	Carbon Disulfide	1.585	1.366	13.8	94	0.00
18 T	Methyl Acetate	0.216	0.209	3.2	96	0.00
19 T	Methyl tert-butyl Ether	1.113	1.008	9.4	91	0.00
20 T	Methylene Chloride	0.584	0.468	19.9	90	0.00
21 T	trans-1,2-Dichloroethene	0.557	0.489	12.2	94	0.01
22 T	Diisopropyl ether	1.288	1.156	10.2	92	0.00
23 T	Vinyl Acetate	0.694	0.630	9.2	90	0.00
24 P	1,1-Dichloroethane	0.893	0.776	13.1	93	0.00
25 T	2-Butanone	0.105	0.098	6.7	95	0.00
26 T	2,2-Dichloropropane	0.782	0.709	9.3	98	0.00
27 T	cis-1,2-Dichloroethene	0.622	0.558	10.3	94	0.00
28 T	Bromochloromethane	0.347	0.322	7.2	96	0.00
29 T	Tetrahydrofuran	0.068	0.063	7.4	89	0.00
30 C	Chloroform	0.990	0.877	11.4#	94	0.00
31 T	Cyclohexane	0.763	0.661	13.4	96	0.00
32 T	1,1,1-Trichloroethane	0.896	0.789	11.9	95	0.00
33 S	1,2-Dichloroethane-d4	0.462	0.402	13.0	89	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35 S	Dibromofluoromethane	0.330	0.314	4.8	92	0.00
36 T	1,1-Dichloropropene	0.444	0.412	7.2	94	0.00
37 T	Ethyl Acetate	0.159	0.152	4.4	91	0.00
38 T	Carbon Tetrachloride	0.530	0.509	4.0	97	0.00
39 T	Methylcyclohexane	0.558	0.529	5.2	93	0.00
40 TM	Benzene	1.387	1.301	6.2	95	0.00
41 T	Methacrylonitrile	0.087	0.072	17.2	76	0.00
42 TM	1,2-Dichloroethane	0.343	0.319	7.0	92	0.00
43 T	Isopropyl Acetate	0.306	0.284	7.2	88	0.00
44 TM	Trichloroethene	0.384	0.360	6.3	95	0.00
45 C	1,2-Dichloropropane	0.307	0.287	6.5#	93	0.00
46 T	Dibromomethane	0.192	0.181	5.7	94	0.00
47 T	Bromodichloromethane	0.480	0.457	4.8	94	0.00
48 T	Methyl methacrylate	0.141	0.139	1.4	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
 Data File : VY022046.D
 Acq On : 29 Apr 2025 09:28
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 30 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 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	0.002	0.002	0.0	98	0.00
50 S	Toluene-d8	1.245	1.202	3.5	92	0.00
51 T	4-Methyl-2-Pentanone	0.160	0.161	-0.6	91	0.00
52 CM	Toluene	0.898	0.870	3.1#	95	0.00
53 T	t-1,3-Dichloropropene	0.411	0.393	4.4	92	0.00
54 T	cis-1,3-Dichloropropene	0.489	0.462	5.5	93	0.00
55 T	1,1,2-Trichloroethane	0.256	0.247	3.5	94	0.00
56 T	Ethyl methacrylate	0.293	0.293	0.0	90	0.00
57 T	1,3-Dichloropropane	0.411	0.395	3.9	94	0.00
58 T	2-Chloroethyl Vinyl ether	0.143	0.152	-6.3	92	0.00
59 T	2-Hexanone	0.106	0.109	-2.8	92	0.00
60 T	Dibromochloromethane	0.355	0.349	1.7	96	0.00
61 T	1,2-Dibromoethane	0.242	0.236	2.5	95	0.00
62 S	4-Bromofluorobenzene	0.419	0.404	3.6	92	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.472	0.449	4.9	98	0.00
65 PM	Chlorobenzene	1.118	1.034	7.5	94	0.00
66 T	1,1,1,2-Tetrachloroethane	0.394	0.367	6.9	94	0.00
67 C	Ethyl Benzene	1.829	1.744	4.6#	94	0.00
68 T	m/p-Xylenes	0.728	0.712	2.2	96	0.00
69 T	o-Xylene	0.671	0.649	3.3	93	0.00
70 T	Styrene	1.126	1.110	1.4	94	0.00
71 P	Bromoform	0.229	0.224	2.2	96	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.341	3.152	5.7	95	0.00
74 T	N-amyl acetate	0.574	0.524	8.7	89	0.00
75 P	1,1,2,2-Tetrachloroethane	0.563	0.517	8.2	94	0.00
76 T	1,2,3-Trichloropropane	0.428	0.403	5.8	100	0.00
77 T	Bromobenzene	0.844	0.794	5.9	96	0.00
78 T	n-propylbenzene	3.978	3.763	5.4	95	0.00
79 T	2-Chlorotoluene	2.314	2.139	7.6	94	0.00
80 T	1,3,5-Trimethylbenzene	2.752	2.633	4.3	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.178	0.163	8.4	92	0.00
82 T	4-Chlorotoluene	2.405	2.260	6.0	95	0.00
83 T	tert-Butylbenzene	2.468	2.334	5.4	94	0.00
84 T	1,2,4-Trimethylbenzene	2.753	2.637	4.2	95	0.00
85 T	sec-Butylbenzene	3.612	3.431	5.0	95	0.00
86 T	p-Isopropyltoluene	3.067	2.964	3.4	96	0.00
87 T	1,3-Dichlorobenzene	1.714	1.588	7.4	96	0.00
88 T	1,4-Dichlorobenzene	1.698	1.573	7.4	97	0.00
89 T	n-Butylbenzene	2.742	2.563	6.5	93	0.00
90 T	Hexachloroethane	0.674	0.613	9.1	96	0.00
91 T	1,2-Dichlorobenzene	1.495	1.376	8.0	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.090	0.080	11.1	95	0.00
93 T	1,2,4-Trichlorobenzene	0.847	0.803	5.2	98	0.00
94 T	Hexachlorobutadiene	0.521	0.484	7.1	101	0.00
95 T	Naphthalene	1.408	1.372	2.6	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Apr 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.731	0.700	4.2	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
 Data File : VY022046.D
 Acq On : 29 Apr 2025 09:28
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 30 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 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	103	0.00
2 T	Dichlorodifluoromethane	50.000	43.507	13.0	97	0.00
3 P	Chloromethane	50.000	43.839	12.3	91	0.00
4 C	Vinyl Chloride	50.000	44.638	10.7#	94	0.00
5 T	Bromomethane	50.000	39.979	20.0	89	0.00
6 T	Chloroethane	50.000	42.293	15.4	89	0.00
7 T	Trichlorofluoromethane	50.000	43.517	13.0	92	0.00
8 T	Diethyl Ether	50.000	42.265	15.5	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	43.664	12.7	98	0.00
10 T	Methyl Iodide	50.000	46.504	7.0	94	0.00
11 T	Tert butyl alcohol	250.000	223.602	10.6	89	0.00
12 CM	1,1-Dichloroethene	50.000	44.442	11.1#	96	0.00
13 T	Acrolein	250.000	233.968	6.4	103	0.00
14 T	Allyl chloride	50.000	43.306	13.4	93	0.00
15 T	Acrylonitrile	250.000	223.027	10.8	92	0.00
16 T	Acetone	250.000	271.364	-8.5	106	0.00
17 T	Carbon Disulfide	50.000	43.107	13.8	94	0.00
18 T	Methyl Acetate	50.000	48.392	3.2	96	0.00
19 T	Methyl tert-butyl Ether	50.000	45.315	9.4	91	0.00
20 T	Methylene Chloride	50.000	40.043	19.9	90	0.00
21 T	trans-1,2-Dichloroethene	50.000	43.924	12.2	94	0.01
22 T	Diisopropyl ether	50.000	44.895	10.2	92	0.00
23 T	Vinyl Acetate	250.000	226.736	9.3	90	0.00
24 P	1,1-Dichloroethane	50.000	43.448	13.1	93	0.00
25 T	2-Butanone	250.000	232.499	7.0	95	0.00
26 T	2,2-Dichloropropane	50.000	45.304	9.4	98	0.00
27 T	cis-1,2-Dichloroethene	50.000	44.805	10.4	94	0.00
28 T	Bromochloromethane	50.000	46.456	7.1	96	0.00
29 T	Tetrahydrofuran	250.000	232.133	7.1	89	0.00
30 C	Chloroform	50.000	44.298	11.4#	94	0.00
31 T	Cyclohexane	50.000	43.306	13.4	96	0.00
32 T	1,1,1-Trichloroethane	50.000	44.057	11.9	95	0.00
33 S	1,2-Dichloroethane-d4	50.000	43.532	12.9	89	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35 S	Dibromofluoromethane	50.000	47.486	5.0	92	0.00
36 T	1,1-Dichloropropene	50.000	46.442	7.1	94	0.00
37 T	Ethyl Acetate	50.000	47.597	4.8	91	0.00
38 T	Carbon Tetrachloride	50.000	48.012	4.0	97	0.00
39 T	Methylcyclohexane	50.000	47.325	5.3	93	0.00
40 TM	Benzene	50.000	46.906	6.2	95	0.00
41 T	Methacrylonitrile	50.000	41.395	17.2	76	0.00
42 TM	1,2-Dichloroethane	50.000	46.477	7.0	92	0.00
43 T	Isopropyl Acetate	50.000	46.389	7.2	88	0.00
44 TM	Trichloroethene	50.000	46.887	6.2	95	0.00
45 C	1,2-Dichloropropane	50.000	46.764	6.5#	93	0.00
46 T	Dibromomethane	50.000	47.082	5.8	94	0.00
47 T	Bromodichloromethane	50.000	47.592	4.8	94	0.00
48 T	Methyl methacrylate	50.000	49.274	1.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
 Data File : VY022046.D
 Acq On : 29 Apr 2025 09:28
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Apr 30 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 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	997.336	0.3	98	0.00
50 S	Toluene-d8	50.000	48.273	3.5	92	0.00
51 T	4-Methyl-2-Pentanone	250.000	250.912	-0.4	91	0.00
52 CM	Toluene	50.000	48.468	3.1#	95	0.00
53 T	t-1,3-Dichloropropene	50.000	47.779	4.4	92	0.00
54 T	cis-1,3-Dichloropropene	50.000	47.184	5.6	93	0.00
55 T	1,1,2-Trichloroethane	50.000	48.179	3.6	94	0.00
56 T	Ethyl methacrylate	50.000	49.904	0.2	90	0.00
57 T	1,3-Dichloropropane	50.000	48.021	4.0	94	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	264.171	-5.7	92	0.00
59 T	2-Hexanone	250.000	257.500	-3.0	92	0.00
60 T	Dibromochloromethane	50.000	49.071	1.9	96	0.00
61 T	1,2-Dibromoethane	50.000	48.774	2.5	95	0.00
62 S	4-Bromofluorobenzene	50.000	48.133	3.7	92	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	47.647	4.7	98	0.00
65 PM	Chlorobenzene	50.000	46.234	7.5	94	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	46.647	6.7	94	0.00
67 C	Ethyl Benzene	50.000	47.678	4.6#	94	0.00
68 T	m/p-Xylenes	100.000	97.760	2.2	96	0.00
69 T	o-Xylene	50.000	48.395	3.2	93	0.00
70 T	Styrene	50.000	49.256	1.5	94	0.00
71 P	Bromoform	50.000	48.842	2.3	96	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	47.173	5.7	95	0.00
74 T	N-amyl acetate	50.000	45.674	8.7	89	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.905	8.2	94	0.00
76 T	1,2,3-Trichloropropane	50.000	47.092	5.8	100	0.00
77 T	Bromobenzene	50.000	47.020	6.0	96	0.00
78 T	n-propylbenzene	50.000	47.296	5.4	95	0.00
79 T	2-Chlorotoluene	50.000	46.226	7.5	94	0.00
80 T	1,3,5-Trimethylbenzene	50.000	47.830	4.3	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	45.956	8.1	92	0.00
82 T	4-Chlorotoluene	50.000	46.986	6.0	95	0.00
83 T	tert-Butylbenzene	50.000	47.269	5.5	94	0.00
84 T	1,2,4-Trimethylbenzene	50.000	47.887	4.2	95	0.00
85 T	sec-Butylbenzene	50.000	47.496	5.0	95	0.00
86 T	p-Isopropyltoluene	50.000	48.314	3.4	96	0.00
87 T	1,3-Dichlorobenzene	50.000	46.325	7.3	96	0.00
88 T	1,4-Dichlorobenzene	50.000	46.327	7.3	97	0.00
89 T	n-Butylbenzene	50.000	46.748	6.5	93	0.00
90 T	Hexachloroethane	50.000	45.482	9.0	96	0.00
91 T	1,2-Dichlorobenzene	50.000	46.013	8.0	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.539	10.9	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.361	5.3	98	0.00
94 T	Hexachlorobutadiene	50.000	46.396	7.2	101	0.00
95 T	Naphthalene	50.000	48.746	2.5	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022046.D
Acq On : 29 Apr 2025 09:28
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Apr 30 01:32:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 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	47.880	4.2	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



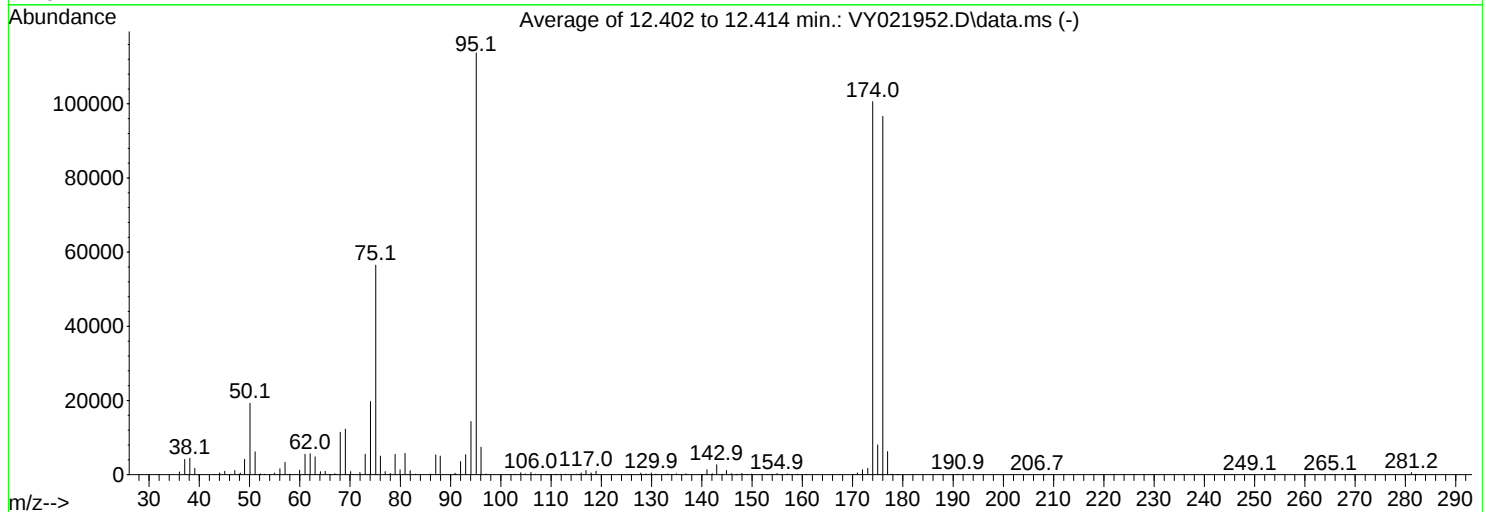
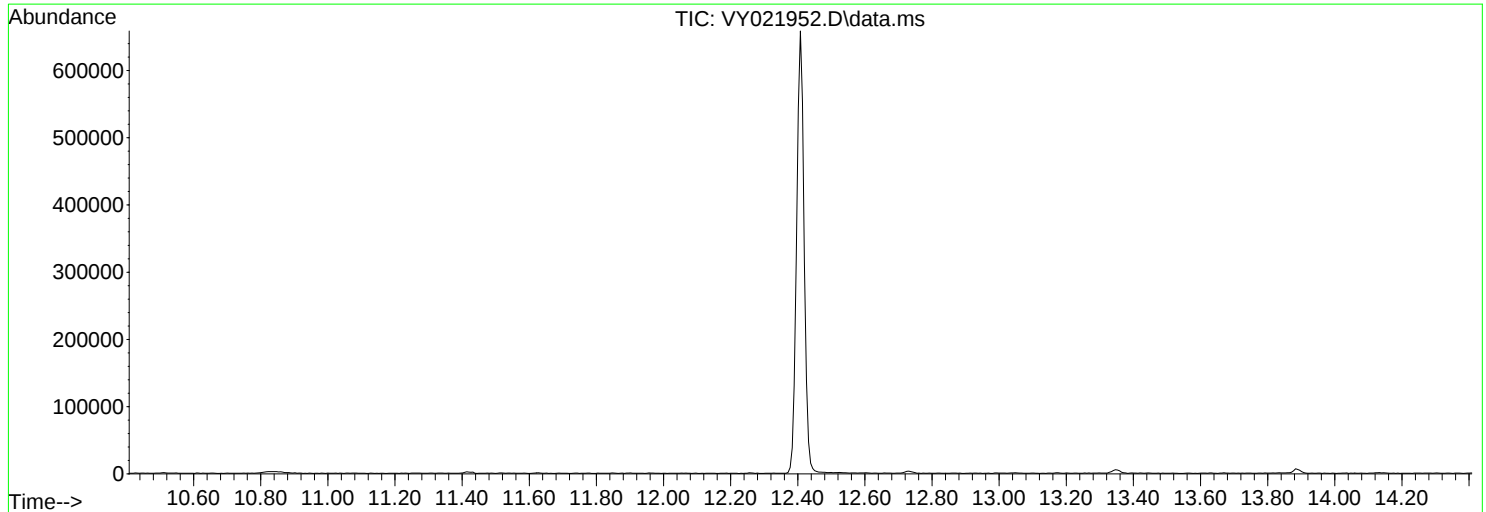
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042225\
Data File : VY021952.D
Acq On : 22 Apr 2025 11:33
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260
Last Update : Wed Apr 23 02:30:30 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

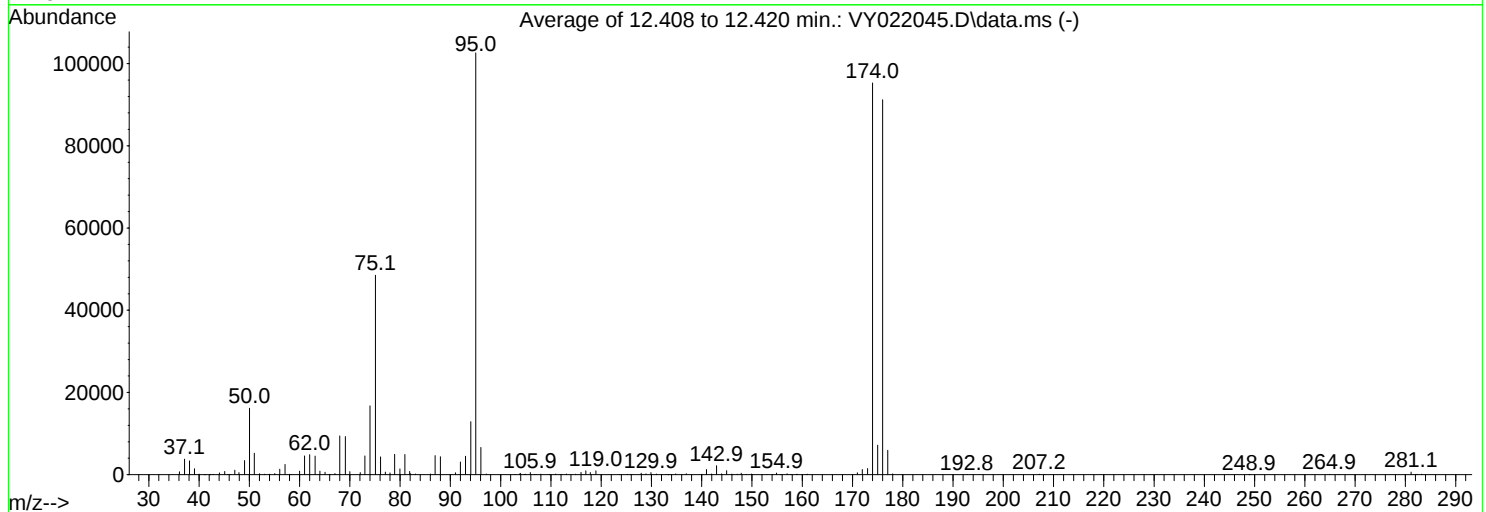
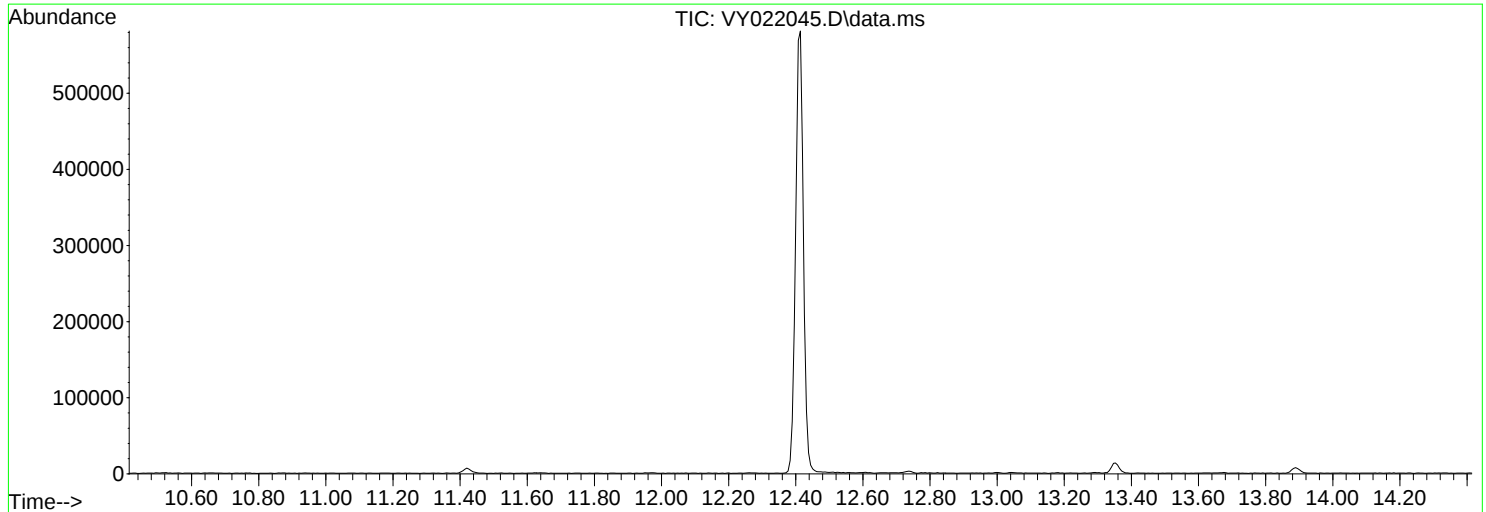
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	16.9	19237	PASS
75	95	30	60	49.7	56504	PASS
95	95	100	100	100.0	113749	PASS
96	95	5	9	6.5	7410	PASS
173	174	0.00	2	1.7	1741	PASS
174	95	50	100	88.4	100587	PASS
175	174	5	9	8.0	8046	PASS
176	174	95	101	96.1	96621	PASS
177	176	5	9	6.4	6205	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022045.D
Acq On : 29 Apr 2025 08:20
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Title : SW846 8260
Last Update : Wed Apr 23 02:30:30 2025



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1744

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.7	16154	PASS
75	95	30	60	47.3	48515	PASS
95	95	100	100	100.0	102613	PASS
96	95	5	9	6.4	6618	PASS
173	174	0.00	2	1.6	1496	PASS
174	95	50	100	92.9	95285	PASS
175	174	5	9	7.5	7170	PASS
176	174	95	101	95.7	91200	PASS
177	176	5	9	6.5	5928	PASS



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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Mitchell School	Date Received:	
Client Sample ID:	VY0429SBL01	SDG No.:	Q1903
Lab Sample ID:	VY0429SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022047.D	1		04/29/25 10:00	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	2.02	U	2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	47.6		74 - 123	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.6		38 - 136	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	323000	7.707			
540-36-3	1,4-Difluorobenzene	602000	8.616			
3114-55-4	Chlorobenzene-d5	530000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	204000	13.347			

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_Y\Data\VY042925\
 Data File : VY022047.D
 Acq On : 29 Apr 2025 10:00
 Operator : SY/MD
 Sample : VY0429SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0429SBL01

Quant Time: Apr 30 01:32:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	323132	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	602161	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	529726	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	203699	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150135	50.301	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	100.600%
35) Dibromofluoromethane	7.634	113	198621	49.927	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.860%
50) Toluene-d8	10.109	98	714245	47.623	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	95.240%
62) 4-Bromofluorobenzene	12.408	95	285524	56.552	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	113.100%

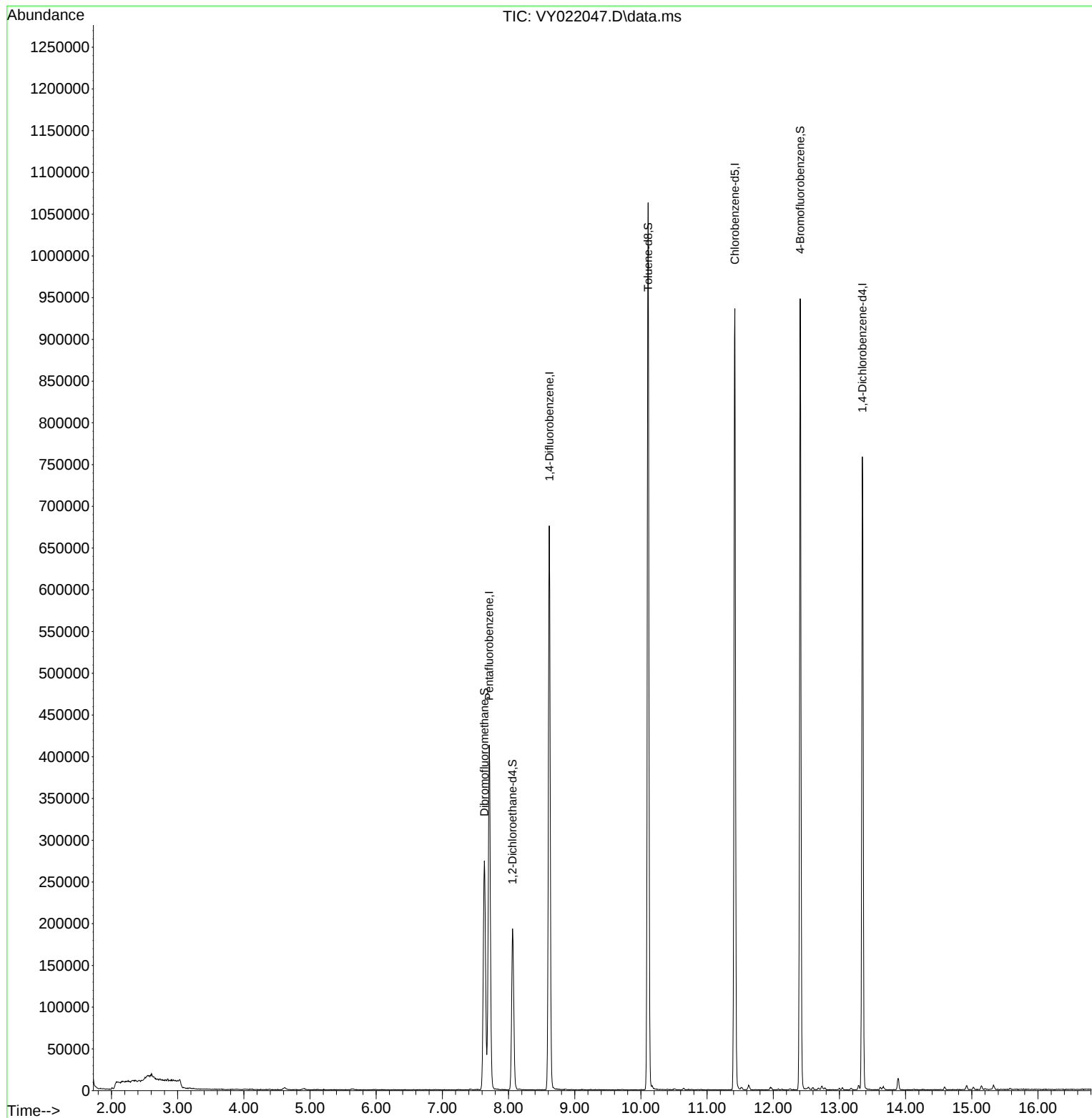
Target Compounds	Qvalue

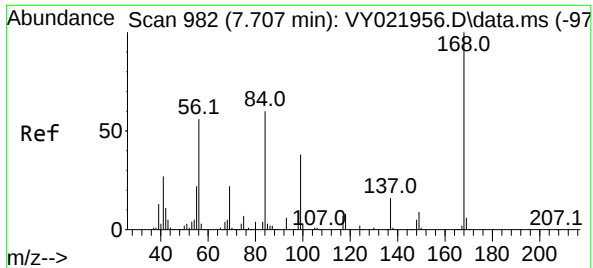
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022047.D
Acq On : 29 Apr 2025 10:00
Operator : SY/MD
Sample : VY0429SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

Quant Time: Apr 30 01:32:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

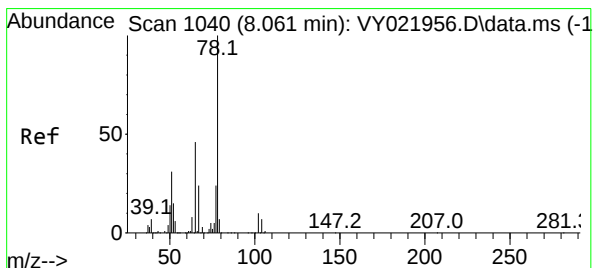
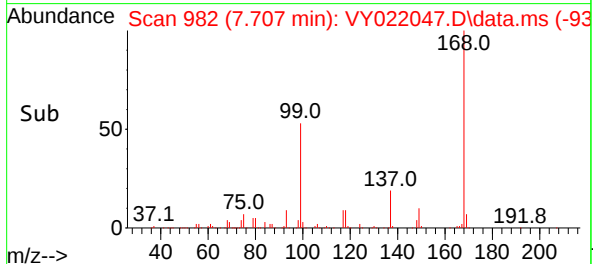
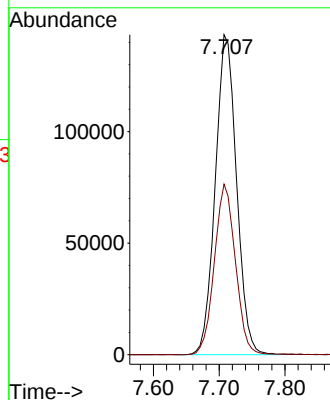
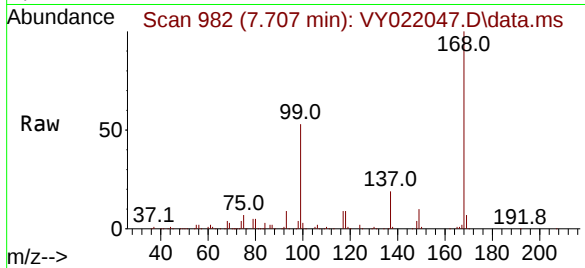




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

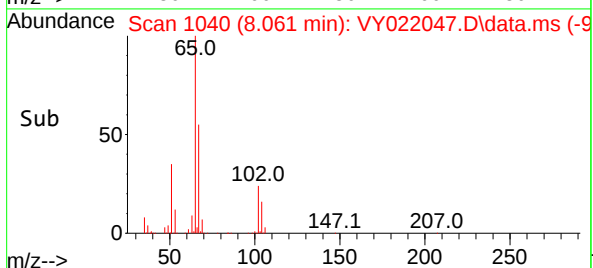
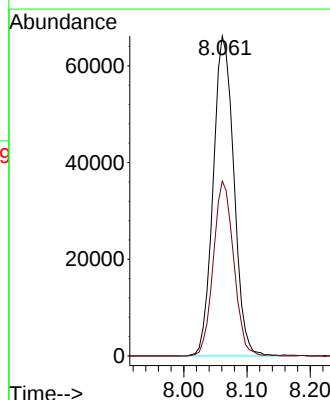
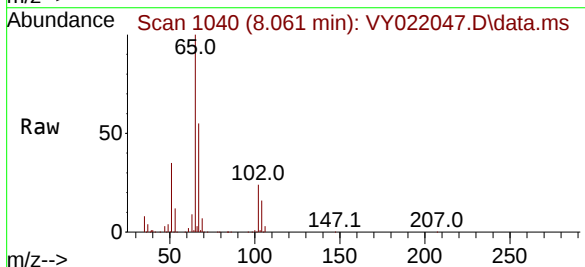
Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

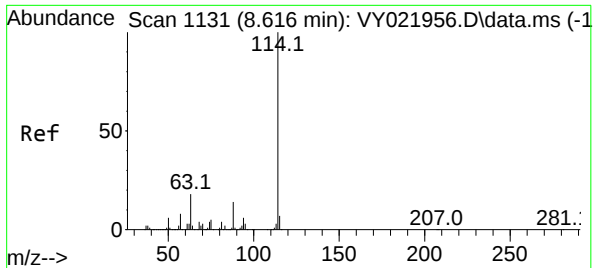
Tgt Ion:168 Resp: 323132
Ion Ratio Lower Upper
168 100
99 53.3 43.1 64.7



#33
1,2-Dichloroethane-d4
Concen: 50.301 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Tgt Ion: 65 Resp: 150135
Ion Ratio Lower Upper
65 100
67 53.9 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022047.D

Acq: 29 Apr 2025 10:00

Instrument :

MSVOA_Y

ClientSampleId :

VY0429SBL01

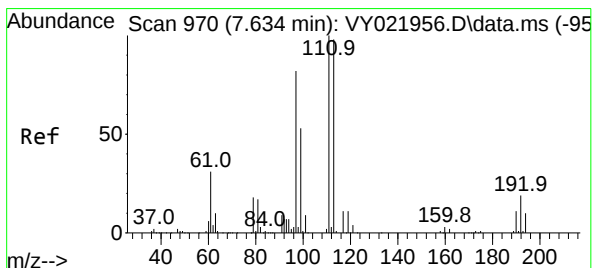
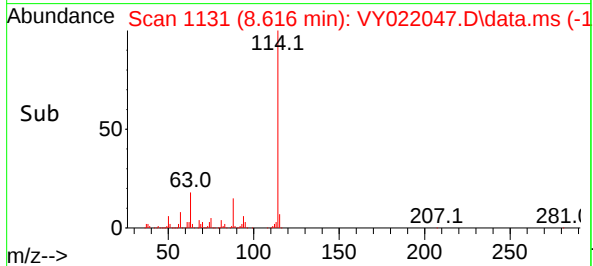
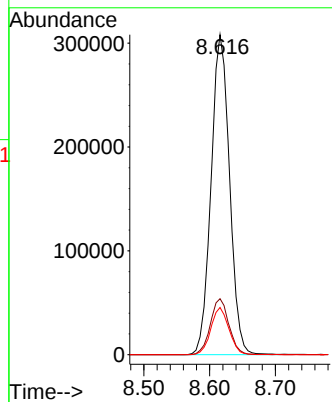
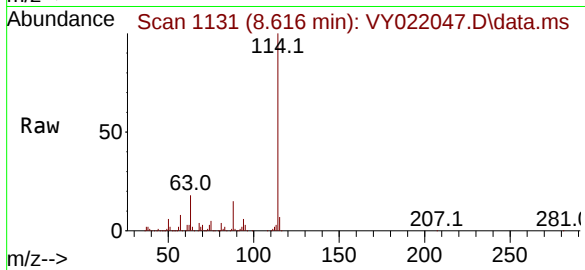
Tgt Ion:114 Resp: 602161

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.4

88 14.8 0.0 28.2



#35

Dibromofluoromethane

Concen: 49.927 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY022047.D

Acq: 29 Apr 2025 10:00

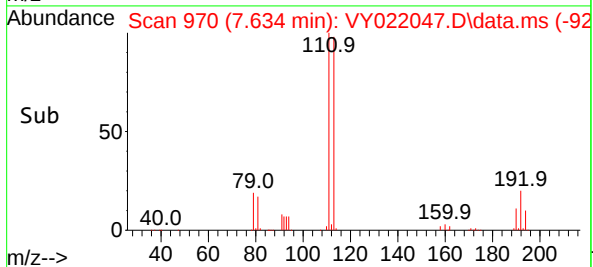
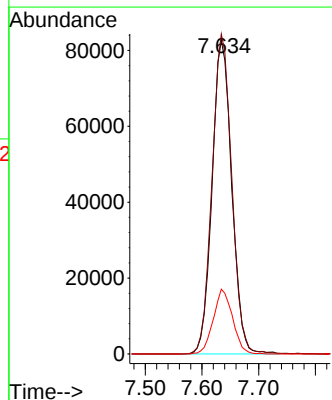
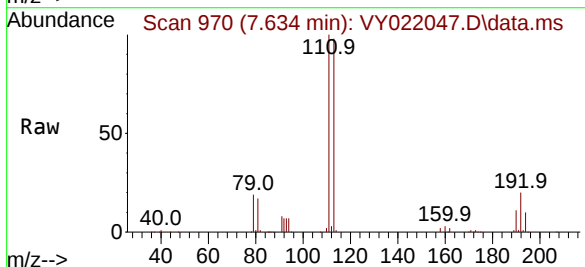
Tgt Ion:113 Resp: 198621

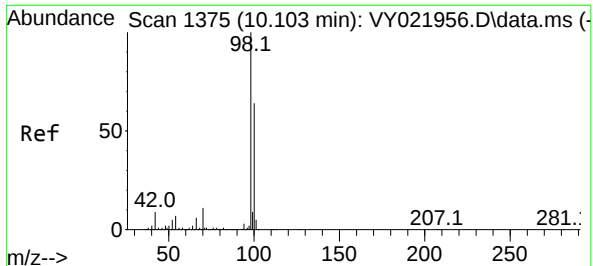
Ion Ratio Lower Upper

113 100

111 102.6 81.8 122.8

192 20.3 15.6 23.4

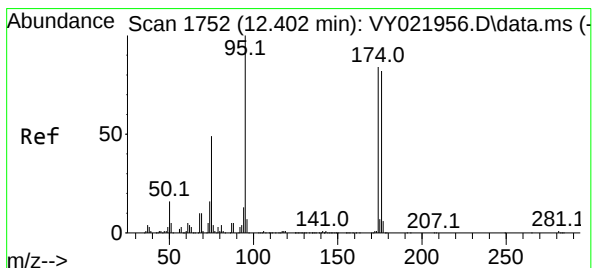
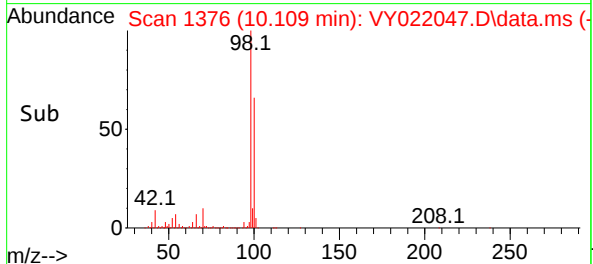
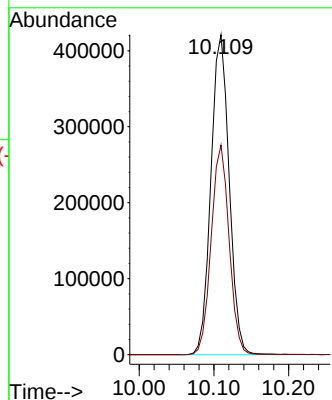
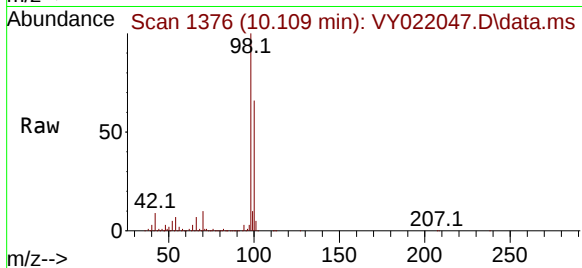




#50
Toluene-d8
Concen: 47.623 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

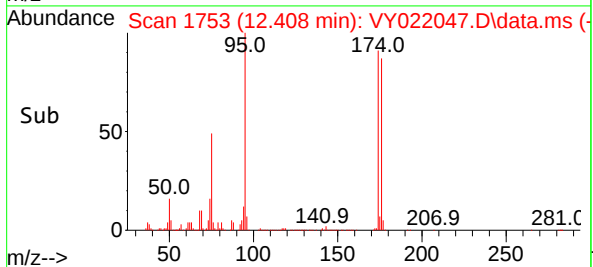
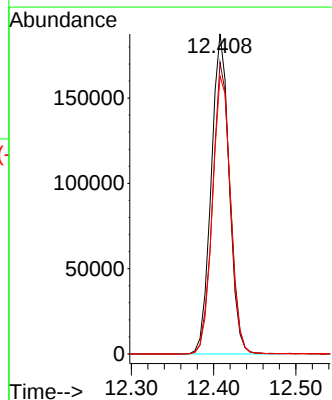
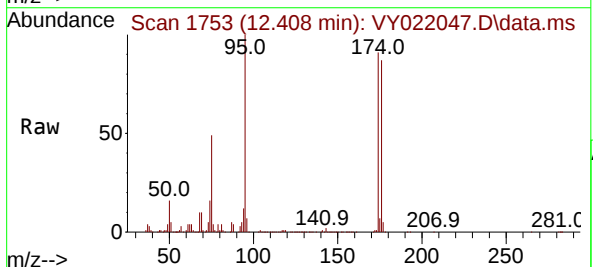
Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBL01

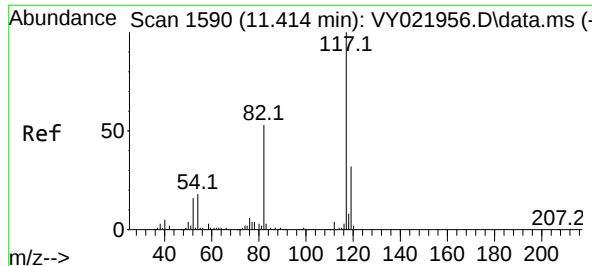
Tgt Ion: 98 Resp: 714245
Ion Ratio Lower Upper
98 100
100 64.3 51.6 77.4



#62
4-Bromofluorobenzene
Concen: 56.552 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY022047.D
Acq: 29 Apr 2025 10:00

Tgt Ion: 95 Resp: 285524
Ion Ratio Lower Upper
95 100
174 89.5 0.0 179.0
176 87.0 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.006 min

Lab File: VY022047.D

Acq: 29 Apr 2025 10:00

Instrument :

MSVOA_Y

ClientSampleId :

VY0429SBL01

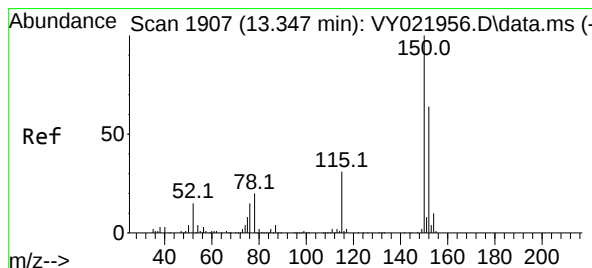
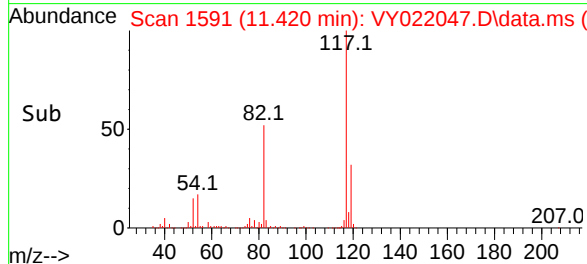
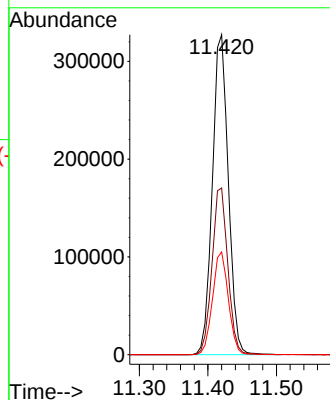
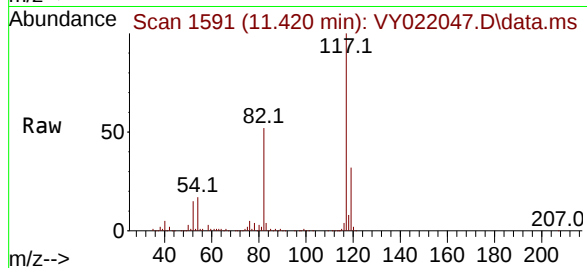
Tgt Ion:117 Resp: 529726

Ion Ratio Lower Upper

117 100

82 52.1 42.1 63.1

119 32.1 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022047.D

Acq: 29 Apr 2025 10:00

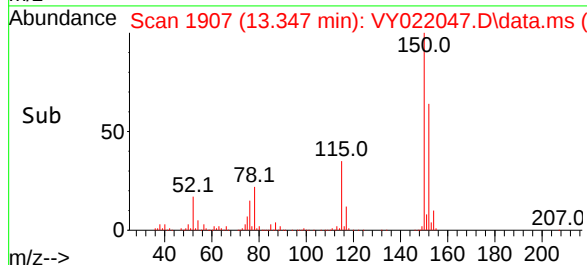
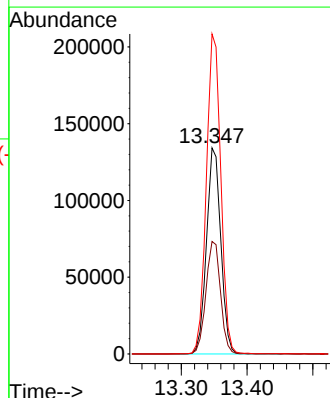
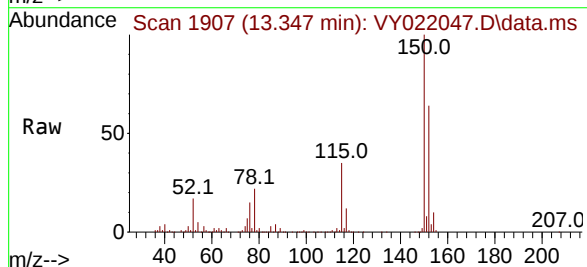
Tgt Ion:152 Resp: 203699

Ion Ratio Lower Upper

152 100

115 55.5 28.0 84.0

150 156.0 0.0 345.6



Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Mitchell School	Date Received:	
Client Sample ID:	VY0429SBS01	SDG No.:	Q1903
Lab Sample ID:	VY0429SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022048.D	1		04/29/25 10:31	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	19.6		0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.9		0.93	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.81	5.00	ug/Kg
108-88-3	Toluene	20.1		0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.4		0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	59.4		2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	50.9		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		38 - 136	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	295000	7.707			
540-36-3	1,4-Difluorobenzene	456000	8.616			
3114-55-4	Chlorobenzene-d5	411000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	221000	13.347			

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_Y\Data\VY042925\
 Data File : VY022048.D
 Acq On : 29 Apr 2025 10:31
 Operator : SY/MD
 Sample : VY0429SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0429SBS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/30/2025
 Supervised By : Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	295160	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	455592	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	411306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	220609	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	131819	48.350	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.700%
35) Dibromofluoromethane	7.634	113	150994	50.166	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.340%
50) Toluene-d8	10.103	98	577886	50.927	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.860%
62) 4-Bromofluorobenzene	12.408	95	189577	49.628	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	99.260%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	48376	19.235	ug/l	98
3) Chloromethane	2.068	50	72643	20.285	ug/l	99
4) Vinyl Chloride	2.202	62	83728	19.026	ug/l	98
5) Bromomethane	2.592	94	73982	19.513	ug/l	93
6) Chloroethane	2.733	64	56577	18.877	ug/l	94
7) Trichlorofluoromethane	3.056	101	112658	19.414	ug/l	99
8) Diethyl Ether	3.452	74	28383	18.792	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	61809	19.635	ug/l	98
10) Methyl Iodide	4.001	142	67410	18.495	ug/l	99
11) Tert butyl alcohol	4.879	59	13239	88.452	ug/l #	70
12) 1,1-Dichloroethene	3.787	96	58076	19.793	ug/l	97
13) Acrolein	3.659	56	23798	88.588	ug/l	98
14) Allyl chloride	4.385	41	64847	18.980	ug/l	99
15) Acrylonitrile	5.061	53	51099	92.413	ug/l	98
16) Acetone	3.873	43	36017	87.002	ug/l	92
17) Carbon Disulfide	4.104	76	183149	19.576	ug/l	100
18) Methyl Acetate	4.385	43	26368	20.705	ug/l	98
19) Methyl tert-butyl Ether	5.110	73	120380	18.330	ug/l	95
20) Methylene Chloride	4.610	84	64582	18.734	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	64140	19.519	ug/l	97
22) Diisopropyl ether	6.019	45	149424	19.653	ug/l	97
23) Vinyl Acetate	5.958	43	373500	91.151	ug/l	99
24) 1,1-Dichloroethane	5.915	63	101522	19.263	ug/l	98
25) 2-Butanone	6.897	43	54911	88.358	ug/l	97
26) 2,2-Dichloropropane	6.884	77	91600	19.830	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	72039	19.606	ug/l	98
28) Bromochloromethane	7.244	49	39029	19.066	ug/l	98
29) Tetrahydrofuran	7.262	42	35848	88.815	ug/l	99
30) Chloroform	7.421	83	117036	20.020	ug/l	97
31) Cyclohexane	7.701	56	84220	18.687	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	105143	19.880	ug/l	99
36) 1,1-Dichloropropene	7.835	75	79075	19.558	ug/l	99
37) Ethyl Acetate	6.982	43	26628	18.338	ug/l	98
38) Carbon Tetrachloride	7.817	117	98218	20.330	ug/l	99
39) Methylcyclohexane	9.110	83	92537	18.187	ug/l	94
40) Benzene	8.079	78	254772	20.158	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
 Data File : VY022048.D
 Acq On : 29 Apr 2025 10:31
 Operator : SY/MD
 Sample : VY0429SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0429SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	14741m	18.571	ug/l	
42) 1,2-Dichloroethane	8.158	62	62360	19.929	ug/l	99
43) Isopropyl Acetate	8.195	43	50732	18.193	ug/l	98
44) Trichloroethene	8.866	130	71028	20.290	ug/l	95
45) 1,2-Dichloropropane	9.140	63	56441	20.194	ug/l	98
46) Dibromomethane	9.231	93	34280	19.593	ug/l	98
47) Bromodichloromethane	9.420	83	87710	20.067	ug/l	100
48) Methyl methacrylate	9.219	41	22602	17.533	ug/l	93
49) 1,4-Dioxane	9.225	88	6627	355.374	ug/l	92
51) 4-Methyl-2-Pentanone	10.000	43	133241	91.148	ug/l	100
52) Toluene	10.170	92	164777	20.141	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	71271	19.011	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	85968	19.290	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	47069	20.140	ug/l	98
56) Ethyl methacrylate	10.439	69	47072	17.613	ug/l	97
57) 1,3-Dichloropropane	10.719	76	74505	19.886	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	119153	91.185	ug/l	98
59) 2-Hexanone	10.762	43	83877	86.992	ug/l	98
60) Dibromochloromethane	10.908	129	64371	19.894	ug/l	98
61) 1,2-Dibromoethane	11.018	107	43629	19.774	ug/l	100
64) Tetrachloroethene	10.646	164	81253	20.941	ug/l	98
65) Chlorobenzene	11.444	112	182043	19.792	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	64950	20.058	ug/l	98
67) Ethyl Benzene	11.518	91	292538	19.443	ug/l	99
68) m/p-Xylenes	11.627	106	240556	40.178	ug/l	100
69) o-Xylene	11.957	106	105800	19.172	ug/l	99
70) Styrene	11.969	104	183180	19.770	ug/l	100
71) Bromoform	12.133	173	36552	19.415	ug/l #	100
73) Isopropylbenzene	12.255	105	281901	19.126	ug/l	99
74) N-amyl acetate	12.072	43	42199	16.664	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	47578	19.146	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	35659m	18.871	ug/l	
77) Bromobenzene	12.530	156	73239	19.665	ug/l	99
78) n-propylbenzene	12.597	91	344311	19.616	ug/l	100
79) 2-Chlorotoluene	12.682	91	200069	19.600	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	237244	19.536	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	14562	18.558	ug/l	97
82) 4-Chlorotoluene	12.780	91	210828	19.868	ug/l	98
83) tert-Butylbenzene	12.999	119	206168	18.929	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	238254	19.614	ug/l	99
85) sec-Butylbenzene	13.176	105	311925	19.572	ug/l	100
86) p-Isopropyltoluene	13.292	119	262713	19.412	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	148080	19.576	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	145893	19.474	ug/l	99
89) n-Butylbenzene	13.621	91	220728	18.247	ug/l	99
90) Hexachloroethane	13.877	117	58056	19.525	ug/l	99
91) 1,2-Dichlorobenzene	13.658	146	128956	19.546	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6879	17.400	ug/l	93
93) 1,2,4-Trichlorobenzene	14.919	180	68247	18.255	ug/l	99
94) Hexachlorobutadiene	15.023	225	43083	18.730	ug/l	99
95) Naphthalene	15.145	128	99146	15.964	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	59189	18.341	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022048.D
Acq On : 29 Apr 2025 10:31
Operator : SY/MD
Sample : VY0429SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

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

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

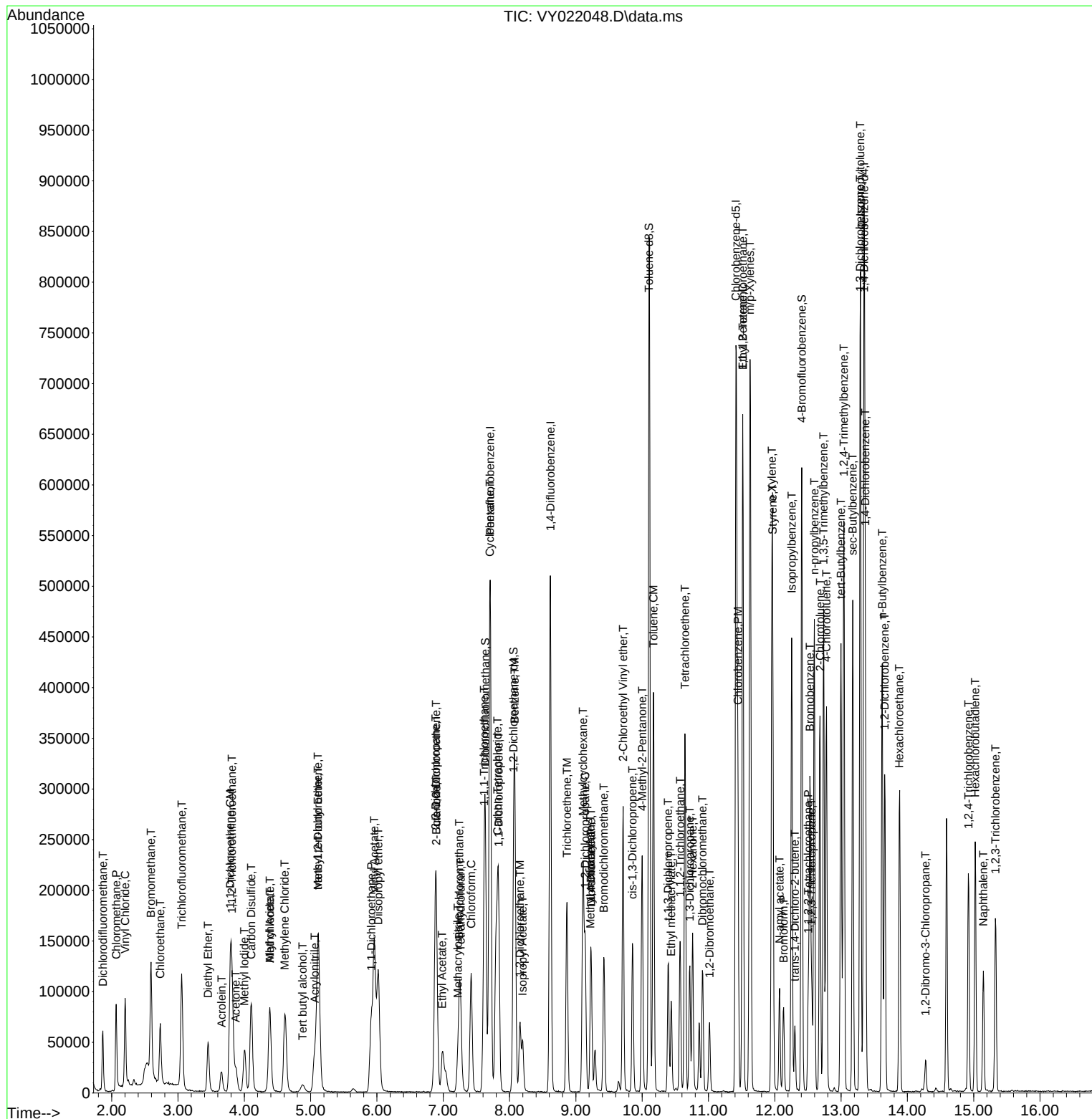
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022048.D
Acq On : 29 Apr 2025 10:31
Operator : SY/MD
Sample : VY0429SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Mitchell School	Date Received:	
Client Sample ID:	VY0429SBSD01	SDG No.:	Q1903
Lab Sample ID:	VY0429SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022049.D	1		04/29/25 10:53	VY042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	20.3		0.75	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.93	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.3		0.81	5.00	ug/Kg
108-88-3	Toluene	21.2		0.78	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	5.00	ug/Kg
1330-20-7	Total Xylenes	61.8		2.02	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		38 - 136	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	292000	7.707			
540-36-3	1,4-Difluorobenzene	448000	8.616			
3114-55-4	Chlorobenzene-d5	410000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	218000	13.346			

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_Y\Data\VY042925\
 Data File : VY022049.D
 Acq On : 29 Apr 2025 10:53
 Operator : SY/MD
 Sample : VY0429SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0429SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	291903	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	448136	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	409949	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	218010	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	132942	49.306	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.620%
35) Dibromofluoromethane	7.634	113	151267	51.093	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.180%
50) Toluene-d8	10.109	98	574864	51.504	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	103.000%
62) 4-Bromofluorobenzene	12.408	95	189774	50.506	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	101.020%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	50434	20.277	ug/l	100
3) Chloromethane	2.068	50	74819	21.125	ug/l	100
4) Vinyl Chloride	2.202	62	86763	19.936	ug/l	98
5) Bromomethane	2.592	94	81132	21.638	ug/l	98
6) Chloroethane	2.732	64	60515	20.416	ug/l	97
7) Trichlorofluoromethane	3.050	101	117953	20.553	ug/l	95
8) Diethyl Ether	3.458	74	29207	19.553	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	62852	20.189	ug/l	100
10) Methyl Iodide	4.001	142	72159	20.019	ug/l	99
11) Tert butyl alcohol	4.891	59	14560	98.364	ug/l #	70
12) 1,1-Dichloroethene	3.787	96	58514	20.164	ug/l	94
13) Acrolein	3.653	56	25330	95.343	ug/l	98
14) Allyl chloride	4.379	41	65987	19.529	ug/l	99
15) Acrylonitrile	5.067	53	54870	100.340	ug/l	97
16) Acetone	3.879	43	38055	94.548	ug/l	90
17) Carbon Disulfide	4.104	76	183685	19.853	ug/l	98
18) Methyl Acetate	4.385	43	27586	21.903	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	128332	19.759	ug/l	98
20) Methylene Chloride	4.610	84	67632	19.837	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	65695	20.215	ug/l	95
22) Diisopropyl ether	6.018	45	152428	20.272	ug/l	96
23) Vinyl Acetate	5.964	43	394142	97.261	ug/l	99
24) 1,1-Dichloroethane	5.921	63	105238	20.191	ug/l	99
25) 2-Butanone	6.896	43	59219	96.354	ug/l	96
26) 2,2-Dichloropropane	6.884	77	93930	20.562	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	73804	20.310	ug/l	99
28) Bromochloromethane	7.244	49	42480	20.983	ug/l	99
29) Tetrahydrofuran	7.262	42	38986	97.667	ug/l	98
30) Chloroform	7.421	83	119936	20.745	ug/l	99
31) Cyclohexane	7.701	56	86354	19.375	ug/l #	91
32) 1,1,1-Trichloroethane	7.616	97	107276	20.510	ug/l	99
36) 1,1-Dichloropropene	7.835	75	81364	20.459	ug/l	99
37) Ethyl Acetate	6.982	43	28671	20.073	ug/l	97
38) Carbon Tetrachloride	7.817	117	100223	21.090	ug/l	94
39) Methylcyclohexane	9.109	83	97715	19.525	ug/l	94
40) Benzene	8.079	78	259113	20.843	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
 Data File : VY022049.D
 Acq On : 29 Apr 2025 10:53
 Operator : SY/MD
 Sample : VY0429SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0429SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	14935	19.128	ug/l	94
42) 1,2-Dichloroethane	8.158	62	63977	20.786	ug/l	99
43) Isopropyl Acetate	8.195	43	54414	19.838	ug/l	97
44) Trichloroethene	8.866	130	73238	21.269	ug/l	99
45) 1,2-Dichloropropane	9.140	63	58177	21.161	ug/l	96
46) Dibromomethane	9.231	93	36339	21.115	ug/l	100
47) Bromodichloromethane	9.426	83	90012	20.937	ug/l	99
48) Methyl methacrylate	9.219	41	24153	19.048	ug/l	91
49) 1,4-Dioxane	9.237	88	7262	395.905	ug/l	93
51) 4-Methyl-2-Pentanone	9.999	43	145133	100.935	ug/l	99
52) Toluene	10.170	92	170433	21.179	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	74659	20.246	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	91589	20.894	ug/l	94
55) 1,1,2-Trichloroethane	10.573	97	48989	21.310	ug/l	96
56) Ethyl methacrylate	10.438	69	50609	19.251	ug/l	97
57) 1,3-Dichloropropane	10.719	76	76028	20.630	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	130145	101.254	ug/l	99
59) 2-Hexanone	10.762	43	92347	97.370	ug/l	97
60) Dibromochloromethane	10.908	129	66559	20.913	ug/l	100
61) 1,2-Dibromoethane	11.018	107	45004	20.737	ug/l	100
64) Tetrachloroethene	10.646	164	82533	21.341	ug/l	99
65) Chlorobenzene	11.438	112	189085	20.626	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	67699	20.976	ug/l	99
67) Ethyl Benzene	11.518	91	300699	20.051	ug/l	98
68) m/p-Xylenes	11.627	106	246885	41.372	ug/l	100
69) o-Xylene	11.956	106	112115	20.384	ug/l	100
70) Styrene	11.969	104	191054	20.688	ug/l	99
71) Bromoform	12.133	173	38927	20.745	ug/l #	99
73) Isopropylbenzene	12.255	105	290274	19.929	ug/l	100
74) N-amyl acetate	12.066	43	45873	18.331	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	51744	21.071	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	36486m	19.539	ug/l	
77) Bromobenzene	12.530	156	75612	20.544	ug/l	99
78) n-propylbenzene	12.597	91	351661	20.274	ug/l	99
79) 2-Chlorotoluene	12.682	91	204997	20.322	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	244799	20.398	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	15043	19.399	ug/l	97
82) 4-Chlorotoluene	12.773	91	216790	20.674	ug/l	99
83) tert-Butylbenzene	12.999	119	216972	20.159	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	247217	20.595	ug/l	100
85) sec-Butylbenzene	13.176	105	318982	20.253	ug/l	99
86) p-Isopropyltoluene	13.292	119	269435	20.146	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	155202	20.762	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	153508	20.735	ug/l	99
89) n-Butylbenzene	13.615	91	231371	19.355	ug/l	99
90) Hexachloroethane	13.877	117	59236	20.159	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	133628	20.496	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7437	19.035	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	72581	19.645	ug/l	98
94) Hexachlorobutadiene	15.023	225	47255	20.788	ug/l	96
95) Naphthalene	15.145	128	112172	18.277	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	64078	20.092	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022049.D
Acq On : 29 Apr 2025 10:53
Operator : SY/MD
Sample : VY0429SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBSD01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration

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

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

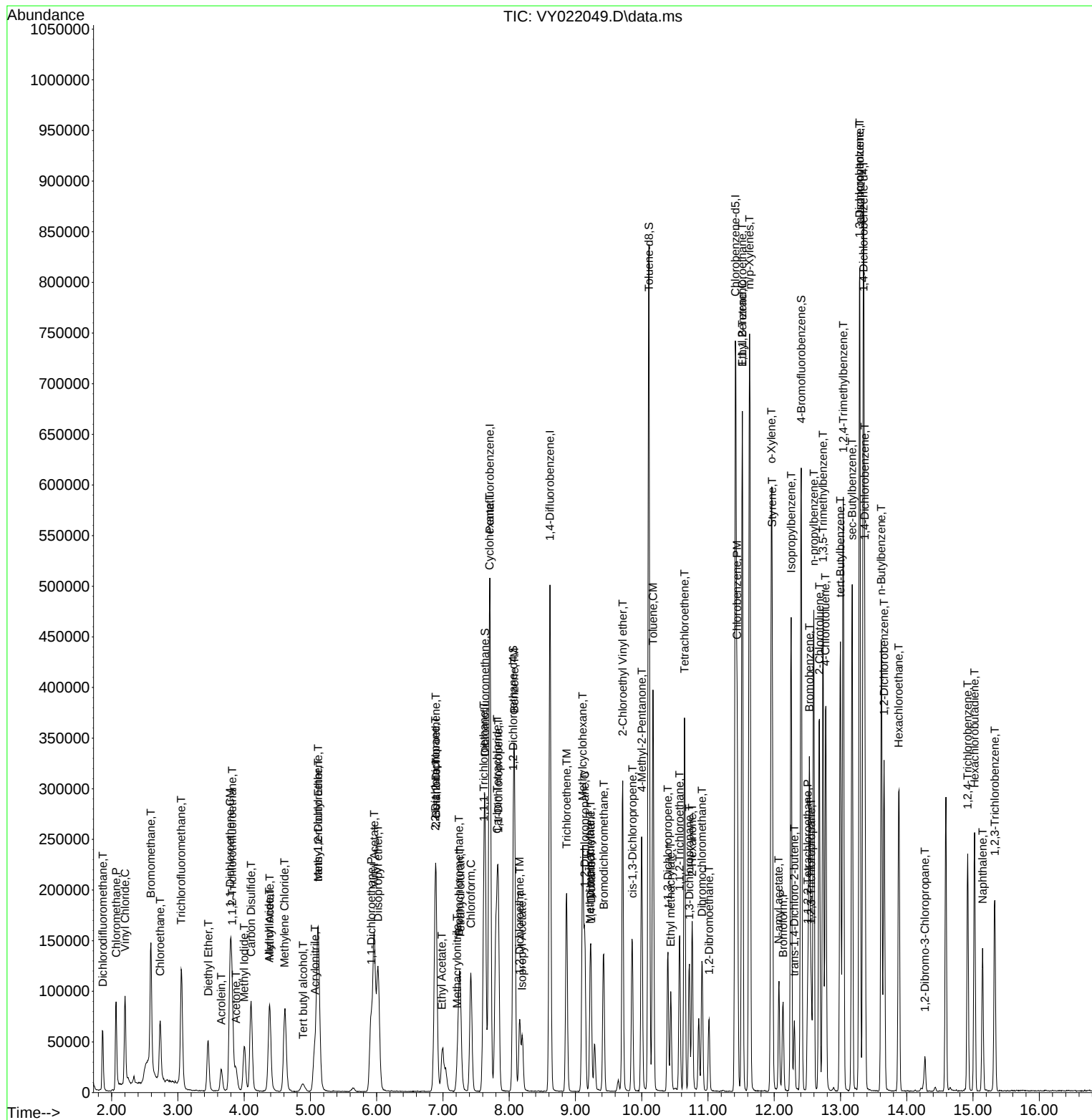
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042925\
Data File : VY022049.D
Acq On : 29 Apr 2025 10:53
Operator : SY/MD
Sample : VY0429SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0429SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:32:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VY042225	Instrument	MSVOA_y
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021953.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Ethyl Acetate	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Methacrylonitrile	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC005	VY021953.D	Tert butyl alcohol	SAM	4/23/2025 7:34:48 AM	MMDadoda	4/23/2025 1:28:59 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	Ethyl Acetate	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC010	VY021954.D	Methacrylonitrile	SAM	4/23/2025 7:34:50 AM	MMDadoda	4/23/2025 1:29:03 PM	Peak Integrated by Software
VSTDICC020	VY021955.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDICC020	VY021955.D	Methacrylonitrile	SAM	4/23/2025 7:34:51 AM	MMDadoda	4/23/2025 1:29:07 PM	Peak Integrated by Software
VSTDICCC050	VY021956.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:53 AM	MMDadoda	4/23/2025 1:29:11 PM	Peak Integrated by Software
VSTDICC100	VY021957.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:56 AM	MMDadoda	4/23/2025 1:29:15 PM	Peak Integrated by Software
VSTDICC150	VY021958.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:57 AM	MMDadoda	4/23/2025 1:29:19 PM	Peak Integrated by Software
VSTDICV050	VY021960.D	1,2,3-Trichloropropane	SAM	4/23/2025 7:34:59 AM	MMDadoda	4/23/2025 1:29:23 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VY042225

Instrument

MSVOA_y

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VY042925	Instrument	MSVOA_y
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022046.D	1,2,3-Trichloropropane	Sam	4/30/2025 2:22:31 PM	MMDadoda	4/30/2025 2:25:41 PM	Peak Integrated by Software
VY0429SBS01	VY022048.D	1,2,3-Trichloropropane	Sam	4/30/2025 2:22:33 PM	MMDadoda	4/30/2025 2:25:44 PM	Peak Integrated by Software
VY0429SBS01	VY022048.D	Methacrylonitrile	Sam	4/30/2025 2:22:33 PM	MMDadoda	4/30/2025 2:25:44 PM	Peak Integrated by Software
VY0429SBSD0 1	VY022049.D	1,2,3-Trichloropropane	Sam	4/30/2025 2:22:35 PM	MMDadoda	4/30/2025 2:25:47 PM	Peak Integrated by Software
VSTDCCC050	VY022068.D	1,2,3-Trichloropropane	Sam	4/30/2025 2:22:42 PM	MMDadoda	4/30/2025 2:25:57 PM	Peak Integrated by Software

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM		
Supervise By	Maresh Dadoda	Supervise On	4/23/2025 1:28:52 PM		
SubDirectory	VY042225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133718			
Initial Calibration Stds		VP133719,VP133720,VP133721,VP133722,VP133723,VP133724			
CCC					
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133725			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021952.D	22 Apr 2025 11:33	SY/MD	Ok
2	VSTDIC005	VY021953.D	22 Apr 2025 13:39	SY/MD	Ok,M
3	VSTDIC010	VY021954.D	22 Apr 2025 14:44	SY/MD	Ok,M
4	VSTDIC020	VY021955.D	22 Apr 2025 15:07	SY/MD	Ok,M
5	VSTDIC050	VY021956.D	22 Apr 2025 15:29	SY/MD	Ok,M
6	VSTDIC100	VY021957.D	22 Apr 2025 15:52	SY/MD	Ok,M
7	VSTDIC150	VY021958.D	22 Apr 2025 16:15	SY/MD	Ok,M
8	IBLK	VY021959.D	22 Apr 2025 16:38	SY/MD	Ok
9	VSTDICV050	VY021960.D	22 Apr 2025 17:01	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QC Batch ID # VY042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:51 PM
Supervise By	Maresh Dadoda	Supervise On	4/30/2025 2:26:05 PM
SubDirectory	VY042925	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y042225s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133781		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133782,VP133783 VP131783		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022045.D	29 Apr 2025 08:20	SY/MD	Ok
2	VSTDCCC050	VY022046.D	29 Apr 2025 09:28	SY/MD	Ok,M
3	VY0429SBL01	VY022047.D	29 Apr 2025 10:00	SY/MD	Ok
4	VY0429SBS01	VY022048.D	29 Apr 2025 10:31	SY/MD	Ok,M
5	VY0429SBS01	VY022049.D	29 Apr 2025 10:53	SY/MD	Ok,M
6	IBLK	VY022050.D	29 Apr 2025 11:56	SY/MD	Ok
7	Q1872-23DL	VY022051.D	29 Apr 2025 12:22	SY/MD	Ok
8	Q1902-01RE	VY022052.D	29 Apr 2025 13:09	SY/MD	Confirms
9	Q1892-03	VY022053.D	29 Apr 2025 13:55	SY/MD	Ok
10	Q1892-07	VY022054.D	29 Apr 2025 14:19	SY/MD	Ok
11	Q1892-11	VY022055.D	29 Apr 2025 14:43	SY/MD	Ok
12	Q1906-03	VY022056.D	29 Apr 2025 15:06	SY/MD	Ok
13	Q1906-07	VY022057.D	29 Apr 2025 15:30	SY/MD	Ok
14	Q1906-11	VY022058.D	29 Apr 2025 15:53	SY/MD	Ok
15	Q1906-15	VY022059.D	29 Apr 2025 16:16	SY/MD	Ok
16	Q1905-03	VY022060.D	29 Apr 2025 16:40	SY/MD	Ok
17	Q1903-01	VY022061.D	29 Apr 2025 17:03	SY/MD	Ok
18	Q1903-02	VY022062.D	29 Apr 2025 17:27	SY/MD	Ok
19	Q1903-03	VY022063.D	29 Apr 2025 17:50	SY/MD	Ok
20	Q1883-01	VY022064.D	29 Apr 2025 18:14	SY/MD	Ok
21	Q1883-03	VY022065.D	29 Apr 2025 18:37	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:51 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/30/2025 2:26:05 PM		
SubDirectory	VY042925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP133781				
CCC	VP133782,VP133783				
Internal Standard/PEM	VP131783				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	IBLK	VY022066.D	29 Apr 2025 19:00	SY/MD	Ok,M
23	IBLK	VY022067.D	29 Apr 2025 19:23	SY/MD	Ok,M
24	VSTDCCC050	VY022068.D	29 Apr 2025 19:45	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY042225

Review By	Semsettin Yesilyurt	Review On	4/23/2025 7:35:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/23/2025 1:28:52 PM		
SubDirectory	VY042225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133718
Initial Calibration Stds	VP133719,VP133720,VP133721,VP133722,VP133723,VP133724
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133725
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021952.D	22 Apr 2025 11:33		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021953.D	22 Apr 2025 13:39		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021954.D	22 Apr 2025 14:44	Com.#16 is on Linear Regression	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021955.D	22 Apr 2025 15:07		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021956.D	22 Apr 2025 15:29		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021957.D	22 Apr 2025 15:52		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021958.D	22 Apr 2025 16:15		SY/MD	Ok,M
8	IBLK	IBLK	VY021959.D	22 Apr 2025 16:38		SY/MD	Ok
9	VSTDICV050	ICVVY042225	VY021960.D	22 Apr 2025 17:01		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:51 PM
Supervise By	Maresh Dadoda	Supervise On	4/30/2025 2:26:05 PM
SubDirectory	VY042925	HP Acquire Method	MSVOA_Y HP Processing Method 82y042225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133781
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133782,VP133783 VP131783

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022045.D	29 Apr 2025 08:20		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022046.D	29 Apr 2025 09:28		SY/MD	Ok,M
3	VY0429SBL01	VY0429SBL01	VY022047.D	29 Apr 2025 10:00		SY/MD	Ok
4	VY0429SBS01	VY0429SBS01	VY022048.D	29 Apr 2025 10:31		SY/MD	Ok,M
5	VY0429SBSD01	VY0429SBSD01	VY022049.D	29 Apr 2025 10:53		SY/MD	Ok,M
6	IBLK	IBLK	VY022050.D	29 Apr 2025 11:56		SY/MD	Ok
7	Q1872-23DL	HW0425-PT-VOA-SOIL	VY022051.D	29 Apr 2025 12:22		SY/MD	Ok
8	Q1902-01RE	343RE	VY022052.D	29 Apr 2025 13:09	vial-B Internal Standard Fail	SY/MD	Confirms
9	Q1892-03	MH-G-VOC	VY022053.D	29 Apr 2025 13:55	vial-A	SY/MD	Ok
10	Q1892-07	MH-H-VOC	VY022054.D	29 Apr 2025 14:19	vial-A	SY/MD	Ok
11	Q1892-11	MH-U2-VOC	VY022055.D	29 Apr 2025 14:43	vial-A	SY/MD	Ok
12	Q1906-03	WC-4-VOC	VY022056.D	29 Apr 2025 15:06	vial-A	SY/MD	Ok
13	Q1906-07	WC-5-VOC	VY022057.D	29 Apr 2025 15:30	vial-A	SY/MD	Ok
14	Q1906-11	WC-6-VOC	VY022058.D	29 Apr 2025 15:53	vial-A	SY/MD	Ok
15	Q1906-15	WC-7-VOC	VY022059.D	29 Apr 2025 16:16	vial-A	SY/MD	Ok
16	Q1905-03	MH-G-VOC	VY022060.D	29 Apr 2025 16:40	vial-A	SY/MD	Ok
17	Q1903-01	COMP-4	VY022061.D	29 Apr 2025 17:03	vial-A	SY/MD	Ok
18	Q1903-02	COMP-5	VY022062.D	29 Apr 2025 17:27	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY042925

Review By	Semsettin Yesilyurt	Review On	4/30/2025 2:23:51 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/30/2025 2:26:05 PM		
SubDirectory	VY042925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y042225s.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP133781				
CCC	VP133782,VP133783				
Internal Standard/PEM	VP131783				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1903-03	COMP-6	VY022063.D	29 Apr 2025 17:50	vial-A	SY/MD	Ok
20	Q1883-01	OU4-PCS-TC-27-0423	VY022064.D	29 Apr 2025 18:14	vial-B	SY/MD	Ok
21	Q1883-03	OU4-PCS-TC-28-0423	VY022065.D	29 Apr 2025 18:37	vial-B	SY/MD	Ok
22	IBLK	IBLK	VY022066.D	29 Apr 2025 19:00		SY/MD	Ok,M
23	IBLK	IBLK	VY022067.D	29 Apr 2025 19:23		SY/MD	Ok,M
24	VSTDCCC050	VSTDCCC050EC	VY022068.D	29 Apr 2025 19:45		SY/MD	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 04/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:37
Out Date: 04/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135575

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1872-24	HW0425-PT-SOL-SOIL	8	0.92	10.30	11.22	8.82	76.7	
Q1901-01	B-170-SB00	1	1.14	5.55	6.69	6.28	92.6	
Q1901-02	B-167-SB01	2	1.14	10.22	11.36	9.58	82.6	
Q1901-03	B-170-SB01	3	1.19	10.31	11.5	9.75	83.0	
Q1901-04	B-167-SB02	4	1.15	9.78	10.93	6.35	53.2	
Q1901-05	B-170-SB02	5	1.14	10.16	11.3	8.77	75.1	
Q1902-01	343	6	1.19	10.23	11.42	10.7	93.0	
Q1902-02	343	7	1.13	10.19	11.32	10.33	90.3	
Q1903-01	COMP-4	9	1.18	11.14	12.32	10.46	83.3	
Q1903-02	COMP-5	10	1.16	10.50	11.66	9.44	78.9	
Q1903-03	COMP-6	11	1.17	10.60	11.77	10.06	83.9	
Q1904-01	VNJ-210	12	1.19	10.39	11.58	10.6	90.6	
Q1905-01	MH-G	13	1.15	10.35	11.5	10.38	89.2	
Q1905-02	MH-G-EPH	14	1.16	9.65	10.81	9.71	88.6	
Q1905-03	MH-G-VOC	15	1.16	10.33	11.49	10.36	89.1	
Q1905-05	MH-H	16	1.12	10.03	11.15	10.5	93.5	
Q1905-06	MH-H-EPH	17	1.13	10.30	11.43	10.5	91.0	
Q1905-07	MH-H-VOC	18	1.12	10.03	11.15	10.01	88.6	
Q1906-01	WC-4	19	1.15	9.85	11.00	10.14	91.3	
Q1906-02	WC-4-EPH	20	1.16	9.97	11.13	10.17	90.4	
Q1906-03	WC-4-VOC	21	1.18	9.99	11.17	9.91	87.4	
Q1906-05	WC-5	22	1.16	10.82	11.98	10.19	83.5	
Q1906-06	WC-5-EPH	23	1.13	10.41	11.54	9.94	84.6	
Q1906-07	WC-5-VOC	24	1.18	10.47	11.65	11.63	99.8	
Q1906-09	WC-6	25	1.14	10.04	11.18	10.4	92.2	
Q1906-10	WC-6-EPH	26	1.15	10.77	11.92	10.23	84.3	
Q1906-11	WC-6-VOC	27	1.14	10.47	11.61	10.86	92.8	
Q1906-13	WC-7	28	1.14	10.85	11.99	10.31	84.5	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 04/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:37
Out Date: 04/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135575

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1906-14	WC-7-EPH	29	1.12	9.86	10.98	9.7	87.0	
Q1906-15	WC-7-VOC	30	1.13	10.27	11.4	10.23	88.6	
Q1907-01	CO-8R-WC	31	1.13	10.26	11.39	9.81	84.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

135545

WorkList Name : %1-042825

WorkList ID : 189159

Department : Wet-Chemistry

Date : 04-28-2025 07:59:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-24	HW0425-PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1903-01	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1903-02	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1903-03	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1901-01	B-170-SB00	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-02	B-167-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-03	B-170-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-04	B-167-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-05	B-170-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1902-01	343	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1902-02	343	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1904-01	VNJ-210	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1905-01	MH-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-02	MH-G-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-03	MH-G-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1906-13	WC-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-14	WC-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-15	WC-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-05	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-06	WC-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-07	WC-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO

Date/Time 04/28/25 16:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 04/28/25 17:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

Handwritten signature

WorkList Name : %1-042825 WorkList ID : 189159 Department : Wet-Chemistry Date : 04-28-2025 07:59:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1906-09	WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-10	WC-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-11	WC-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1905-05	MH-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-06	MH-H-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-07	MH-H-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1906-01	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-02	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-03	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1907-01	CO-8R-WC	Solid	Percent Solids	Cool 4 deg C	WALS01	L51	04/28/2025	Chemtech -SO

Date/Time 04/28/25 16:15
 Raw Sample Received by: *Handwritten signature*
 Raw Sample Relinquished by: *Handwritten signature*

Date/Time 04/28/25 17:30
 Raw Sample Received by: *Handwritten signature*
 Raw Sample Relinquished by: *Handwritten signature*

Preservation Log

BalanceID: VOA-SC-2

Review By: Amit

Supervise By: MMDadoda

Seq	LabID	Vial A Weight (g)	Vial A Time	Vial B Weight (g)	Vial B Time	Vial C Weight(g) with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q1903-01	5.95	10:00	5.98	10:01	6.02	10:02	V14143	04/29/2025	8260 ENCORE SAMPLES
2	Q1903-02	5.00	10:03	5.04	10:04	5.08	10:05	V14143	04/29/2025	8260 ENCORE SAMPLES
3	Q1903-03	5.36	10:06	5.54	10:07	5.55	10:08	V14143	04/29/2025	8260 ENCORE SAMPLES

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1903

COC Number:

CLIENT INFORMATION

COMPANY: Kleinfelder
ADDRESS: 180 Sheree Blvd Suite 3800
CITY: Exton STATE: PA ZIP: 19341
ATTENTION: Mark Warchol
PHONE: 484-883-3892 FAX:

PROJECT INFORMATION

PROJECT NAME: Mitchell School
PROJECT #: 27005164.001A LOCATION: Philadelphia
PROJECT MANAGER: Mark Warchol
E-MAIL: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

BILLING INFORMATION

BILL TO: PO#
ADDRESS: Same
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 5 DAYS*
HARD COPY: 5 DAYS*
EDD: 5 DAYS*

* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☒ Other Level 2 (Results + QC)
☐ EDD Format

ANALYSIS

BADEP Historic Clean Fall	Hold								
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E	E								
1.	COMP-4	Soil	✓		4/25/25	9:25	4	✓									
2.	COMP-5		↓			10:05	↓	↓									
3.	COMP-6		↓			10:30	↓	↓									
4.	SB-13			✓		9:00	↓	✓									
5.	SB-14			↓		9:05	↓	↓									
6.	SB-15			↓		9:15	↓	↓									
7.	SB-16			↓		9:20	↓	↓									
8.	SB-17			↓		9:35	↓	↓									
9.	SB-18			↓		9:45	↓	↓									
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY.

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 13.7 MeOH extraction requires an additional 4oz. Jar for percent solid Comments: Hold grab samples SB-13 through SB-18 "Adjust Factor + 1" It's done!
1. [Signature]	4/25/25 12:45	1. [Signature]	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2. [Signature]	4-28-25 10:50	2. [Signature]	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3. [Signature]		3. [Signature]	

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1903	POWE02	Order Date : 4/28/2025 11:30:00 AM	Project Mgr :
Client Name : Kleinfelder		Project Name : Mitchell School	Report Type : Results+QC
Client Contact : Mark Warchol		Receive DateTime : 4/28/2025 10:56:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Kleinfelder		Purchase Order :	Hard Copy Date :
Invoice Contact : Mark Warchol			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1903-01	COMP-4	Solid	04/25/2025	09:25					
					VOCMS Group1		8260D	5 Bus. Days	
Q1903-02	COMP-5	Solid	04/25/2025	10:05					
					VOCMS Group1		8260D	5 Bus. Days	
Q1903-03	COMP-6	Solid	04/25/2025	10:30					
					VOCMS Group1		8260D	5 Bus. Days	

Relinquished By :

Date / Time : 4/28/25 11:47

Received By :

Date / Time : 4/28/25 11:47

Storage Area : VOA Refridgerator Room