



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

Hit Summary Sheet
SFAM_VOCSIM

SDG No.: Q2377
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID: 0

Total Voc :
Total Concentration:



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/19/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/19/25
Client Sample ID:	PW-B6-L66-061925-SIM	SDG No.:	Q2377
Lab Sample ID:	Q2377-02	Matrix:	Water
Analytical Method:	SFAM_VOCSIM	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOC-SIM
GC Column:	DB-624UI ID : 0.18	Level :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VV038820.D	1		06/23/25 10:00	VV062325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl chloride	0.021	U	0.021	0.050	ug/L
SURROGATES						
6745-35-3	Vinyl Chloride-d3	0.42		40 - 130	84.6%	SPK: 0.5
17060-07-0	1,2-Dichloroethane-d4	0.43		70 - 130	85.2%	SPK: 0.5
93952-08-0	1,2-Dichloropropane-d6	0.47		60 - 140	93.8%	SPK: 0.5
2037-26-5	Toluene-d8	0.46		70 - 130	92%	SPK: 0.5
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.42		65 - 120	84.4%	SPK: 0.5
INTERNAL STANDARDS						
3114-55-4	Chlorobenzene-d5	6820	8.785			
540-36-3	1,4-Difluorobenzene	7440	5.566			
3855-82-1	1,4-Dichlorobenzene-d4	2940	11.191			

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



QC SUMMARY

Surrogate Summary

SDG No.: Q2377

Client: JACOBS Engineering Group, Inc.

Analytical Method: SWSFAM_VOCSIM

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2377-02	PW-B6-L66-061925-SIM	Vinyl chloride-d3	0.5	0.42	85	40	130
		1,2-Dichloroethane-d4	0.5	0.43	85	70	130
		1,2-Dichloropropane-d6	0.5	0.47	94	60	140
		Toluene-d8	0.5	0.46	92	70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.42	84	65	120
VV0623WBL01	VBLK229	Vinyl chloride-d3	0.5	0.48	95	40	130
		1,2-Dichloroethane-d4	0.5	0.49	98	70	130
		1,2-Dichloropropane-d6	0.5	0.53	107	60	140
		Toluene-d8	0.5	0.51	102	70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.51	102	65	120

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK229

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: Q2377

SAS No.: Q2377 SDG NO.: Q2377

Lab File ID: VV038819.D

Lab Sample ID: VV0623WBL01

Date Analyzed: 06/23/2025

Time Analyzed: 09:23

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PW-B6-L66-061925-SIM	Q2377-02	VV038820.D	06/23/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2275 SAS No.: Q2275 SDG NO.: Q2275
Lab File ID: VV038795.D BFB Injection Date: 06/16/2025
Instrument ID: MSVOA_V BFB Injection Time: 08:45
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	52
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	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	77
175	5.0 - 9.0% of mass 174	6 (7.9) 1
176	95.0 - 101.0% of mass 174	73.5 (95.6) 1
177	5.0 - 9.0% of mass 176	4.7 (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
VSTD0.05242	VSTD0.0542	VV038796.D	06/16/2025	09:28
VSTD0.1243	VSTD0.143	VV038797.D	06/16/2025	10:15
VSTD0.5244	VSTD0.544	VV038798.D	06/16/2025	10:43
VSTD001245	VSTD00145	VV038799.D	06/16/2025	11:14
VSTD002246	VSTD00246	VV038800.D	06/16/2025	11:36

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2377 SAS No.: Q2377 SDG NO.: Q2377
Lab File ID: VV038817.D BFB Injection Date: 06/23/2025
Instrument ID: MSVOA_V BFB Injection Time: 08:07
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	1.4 (1.7) 1
174	50.0 - 100.0% of mass 95	78.2
175	5.0 - 9.0% of mass 174	5.3 (6.7) 1
176	95.0 - 101.0% of mass 174	77.1 (98.6) 1
177	5.0 - 9.0% of mass 176	4.7 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD0.5324	VSTDCCC0.5	VV038818.D	06/23/2025	08:44
VBLK229	VV0623WBL01	VV038819.D	06/23/2025	09:23
PW-B6-L66-061925-SIM	Q2377-02	VV038820.D	06/23/2025	10:00
VSTD0.5325	VSTDCCC0.5EC	VV038821.D	06/23/2025	13:37

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q2377 SAS No.: Q2377 SDG NO.: Q2377
 Lab File ID: VV038818.D Date Analyzed: 06/23/2025
 Instrument ID: MSVOA_V Time Analyzed: 08:44
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 (DFB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	6318	5.57	5798	8.79	2580	11.19
UPPER LIMIT	12636	5.736	11596	8.955	5160	11.361
LOWER LIMIT	3159	5.396	2899	8.615	1290	11.021
EPA SAMPLE NO.						
PW-B6-L66-061925-SIM	7436	5.57	6823	8.79	2936	11.19
VBLK229	6610	5.57	6099	8.79	2691	11.19

IS1 (DFB) = 1,4-Difluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 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.



QC SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VBLK229	SDG No.:	Q2377
Lab Sample ID:	VV0623WBL01	Matrix:	Water
Analytical Method:	SFAM_VOCSIM	% Solid:	0
Sample Wt/Vol:	25 Units: mL	Final Vol:	25000 uL
Soil Aliquot Vol:	uL	Test:	VOC-SIM
GC Column:	DB-624UI ID : 0.18	Level :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VV038819.D	1		06/23/25 09:23	VV062325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl chloride	0.021	U	0.021	0.050	ug/L
SURROGATES						
6745-35-3	Vinyl Chloride-d3	0.48		40 - 130	95.4%	SPK: 0.5
17060-07-0	1,2-Dichloroethane-d4	0.49		70 - 130	98.4%	SPK: 0.5
93952-08-0	1,2-Dichloropropane-d6	0.53		60 - 140	106.6%	SPK: 0.5
2037-26-5	Toluene-d8	0.51		70 - 130	102.4%	SPK: 0.5
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.51		65 - 120	102%	SPK: 0.5
INTERNAL STANDARDS						
3114-55-4	Chlorobenzene-d5	6100	8.785			
540-36-3	1,4-Difluorobenzene	6610	5.566			
3855-82-1	1,4-Dichlorobenzene-d4	2690	11.191			

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



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q2377 SAS No.: Q2377 SDG No.: Q2377
 Instrument ID: MSVOA_V Calibration Date(s): 06/16/2025 06/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:28 11:36
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRFAL1 = VV038796.D		RRFAL2 = VV038797.D		RRFAL3 = VV038798.D		
		RRFAL4 = VV038799.D		RRFAL5 = VV038800.D		RRF =		
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRF	RRF	% RSD
Vinyl chloride	0.990	0.868	0.877	0.905	0.861		0.900	5.9
Vinyl Chloride-d3	0.474	0.471	0.468	0.495	0.467		0.475	2.4
1,2-Dichloroethane-d4	0.211	0.222	0.227	0.255	0.250		0.233	8.1
1,2-Dichloropropane-d6	0.243	0.269	0.298	0.314	0.292		0.283	9.8
Toluene-d8	0.525	0.519	0.583	0.631	0.601		0.572	8.5
1,1,2,2-Tetrachloroethane-d2	0.190	0.181	0.203	0.218	0.202		0.199	7.1

* 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.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: Q2377 SAS No.: Q2377 SDG No.: Q2377

Instrument ID: MSVOA_V Calibration Date/Time: 06/23/2025 08:44

Lab File ID: VV038818.D Init. Calib. Date(s): 06/16/2025 06/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:28 11:36

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Vinyl chloride	0.900	0.916	0.01	1.7	30
Vinyl Chloride-d3	0.475	0.483	0.01	1.7	30
1,2-Dichloroethane-d4	0.233	0.238	0.01	2.2	25
1,2-Dichloropropane-d6	0.283	0.311	0.1	9.9	20
Toluene-d8	0.572	0.624	0.2	9.2	20
1,1,2,2-Tetrachloroethane-d2	0.199	0.217	0.01	9.1	25

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: Q2377 SAS No.: Q2377 SDG No.: Q2377

Instrument ID: MSVOA_V Calibration Date/Time: 06/23/2025 13:37

Lab File ID: VV038821.D Init. Calib. Date(s): 06/16/2025 06/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:28 11:36

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Vinyl chloride	0.900	0.907	0.01	0.8	50
Vinyl Chloride-d3	0.475	0.494	0.01	4	50
1,2-Dichloroethane-d4	0.233	0.248	0.01	6.4	50
1,2-Dichloropropane-d6	0.283	0.332	0.1	17.3	50
Toluene-d8	0.572	0.623	0.2	9	50
1,1,2,2-Tetrachloroethane-d2	0.199	0.224	0.01	12.5	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV062325\
 Data File : VV038820.D
 Acq On : 23 Jun 2025 10:00
 Operator : SY/MD
 Sample : Q2377-02
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 PW-B6-L66-061925-SIM

Quant Time: Jun 24 01:40:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM061625.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jun 21 03:37:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	7436	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.785	117	6823	0.500	ug/L	0.00
11) 1,4-Dichlorobenzene-d4	11.191	152	2936	0.500	ug/L	0.00

System Monitoring Compounds						
2) Vinyl Chloride-d3	1.294	65	2985	0.423	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	84.000%
4) 1,2-Dichloroethane-d4	4.969	65	1476	0.426	ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	86.000%
7) 1,2-Dichloropropane-d6	5.995	67	1812	0.469	ug/L	0.00
Spiked Amount	0.500	Range	60 - 140	Recovery	=	94.000%
8) Toluene-d8	7.253	98	3588	0.460	ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	92.000%
10) 1,1,2,2-Tetrachloroeth...	10.146	84	1147	0.422	ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	=	84.000%

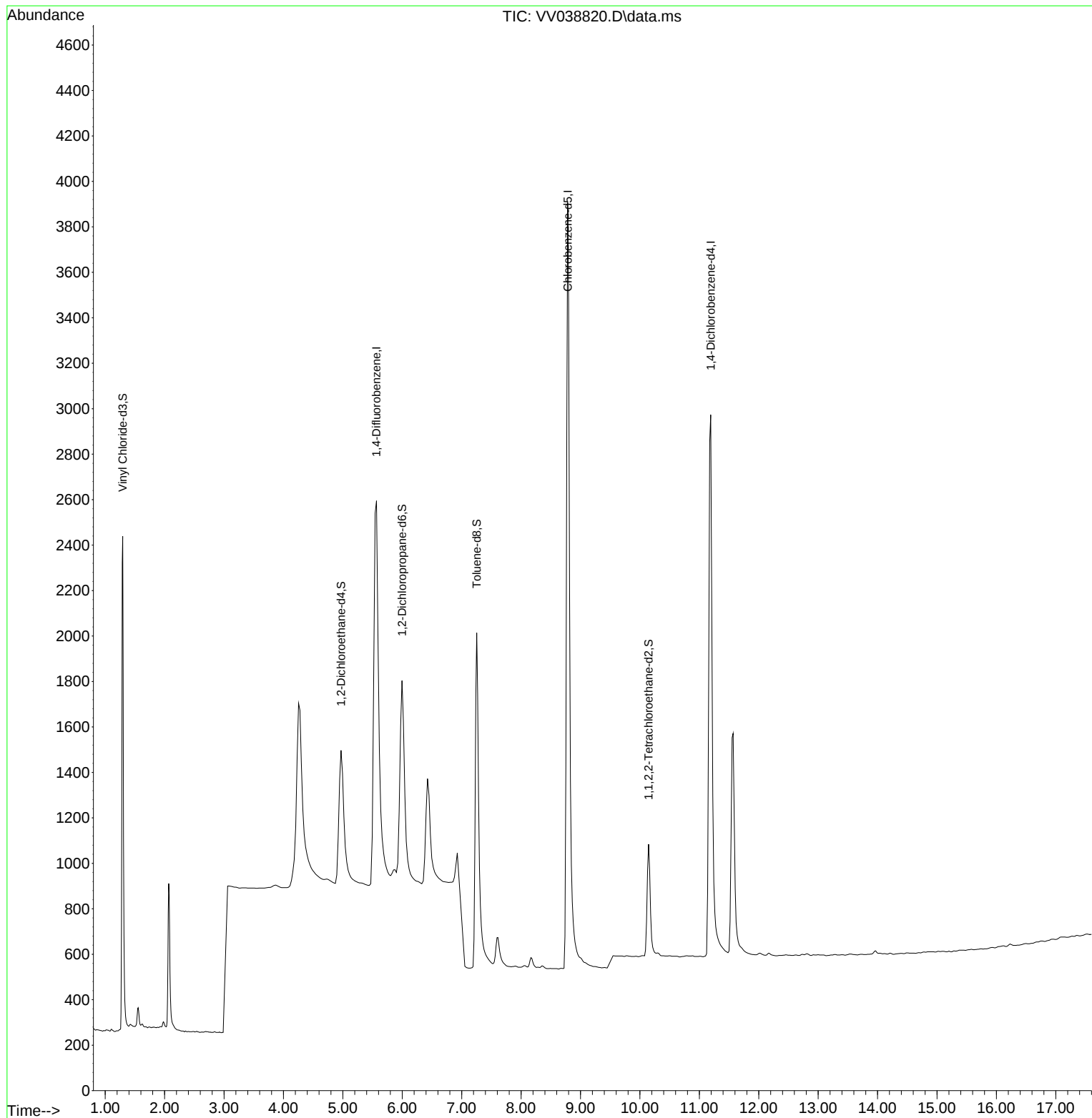
Target Compounds	Qvalue

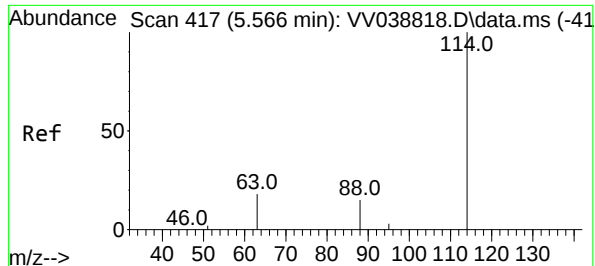
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV062325\
Data File : VV038820.D
Acq On : 23 Jun 2025 10:00
Operator : SY/MD
Sample : Q2377-02
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
PW-B6-L66-061925-SIM

Quant Time: Jun 24 01:40:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM061625.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 21 03:37:28 2025
Response via : Initial Calibration

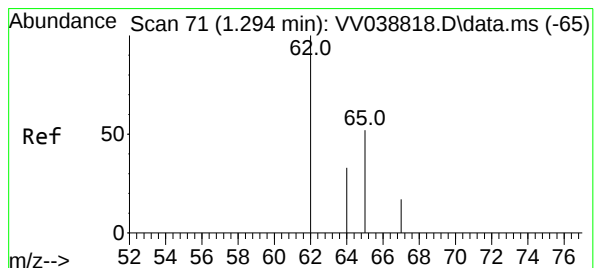
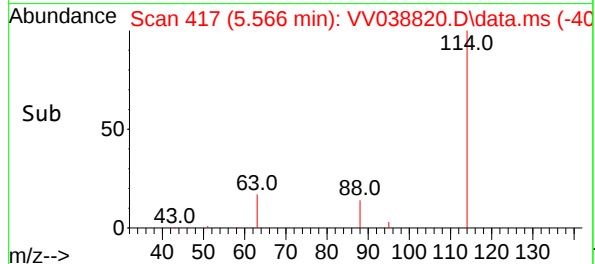
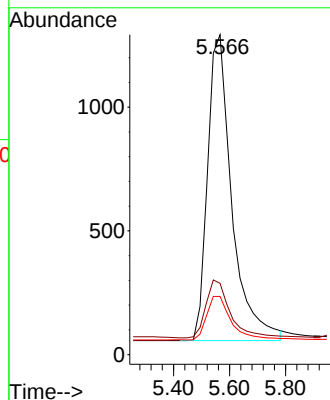
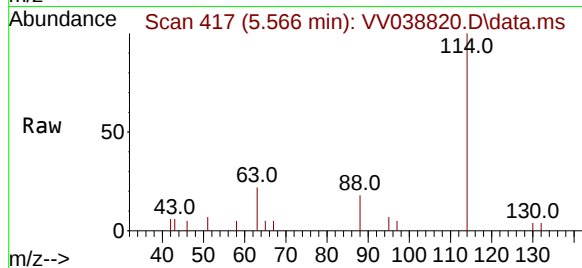




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. -0.000 min
Lab File: VV038820.D
Acq: 23 Jun 2025 10:00

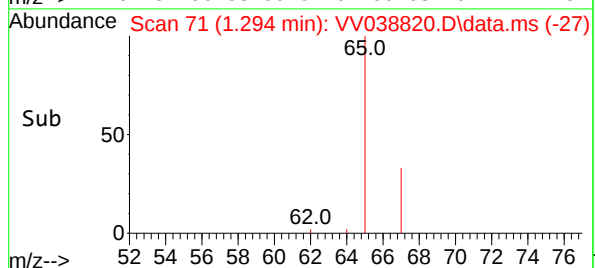
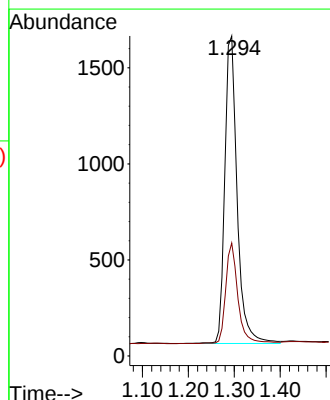
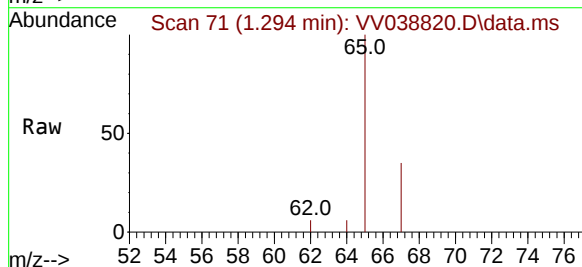
Instrument :
MSVOA_V
ClientSampleId :
PW-B6-L66-061925-SIM

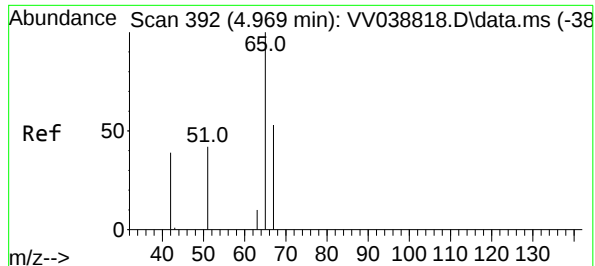
Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.9	14.6	21.8
88	14.6	12.1	18.1



#2
Vinyl Chloride-d3
Concen: 0.423 ug/L
RT: 1.294 min Scan# 71
Delta R.T. 0.007 min
Lab File: VV038820.D
Acq: 23 Jun 2025 10:00

Tgt Ion	Ratio	Lower	Upper
65	100		
67	32.2	24.4	45.4

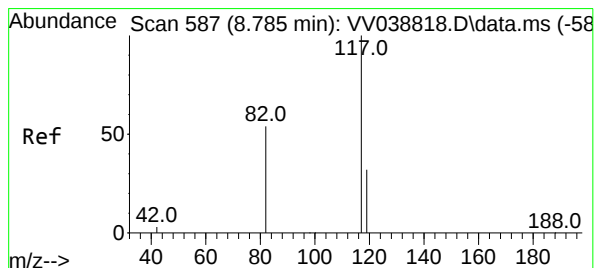
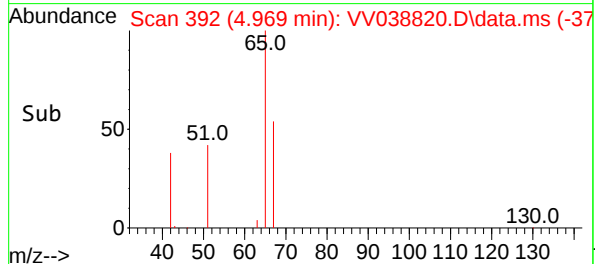
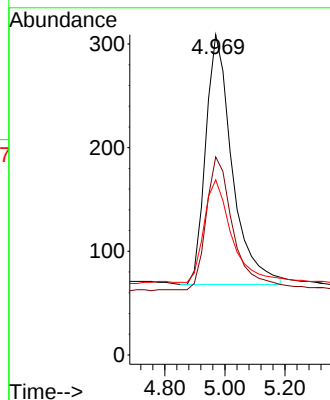
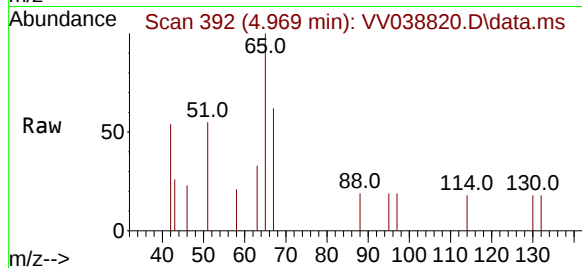




#4
1,2-Dichloroethane-d4
Concen: 0.426 ug/L
RT: 4.969 min Scan# 392
Delta R.T. -0.000 min
Lab File: VV038820.D
Acq: 23 Jun 2025 10:00

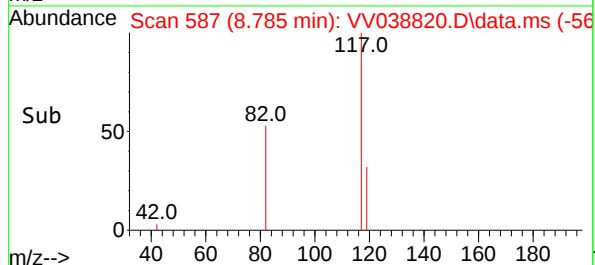
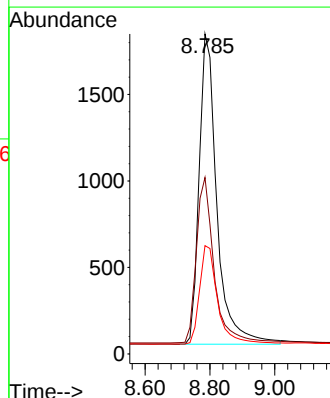
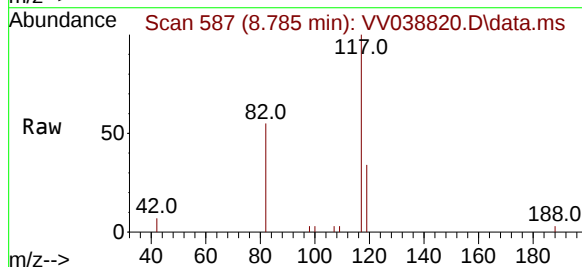
Instrument :
MSVOA_V
ClientSampleId :
PW-B6-L66-061925-SIM

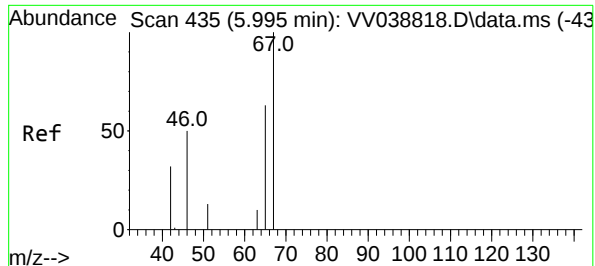
Tgt Ion:	65	Resp:	1476
Ion	Ratio	Lower	Upper
65	100		
67	53.9	38.9	72.2
51	42.8	25.8	47.8



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.785 min Scan# 587
Delta R.T. -0.000 min
Lab File: VV038820.D
Acq: 23 Jun 2025 10:00

Tgt Ion:	117	Resp:	6823
Ion	Ratio	Lower	Upper
117	100		
82	53.3	40.6	60.8
119	32.2	25.7	38.5

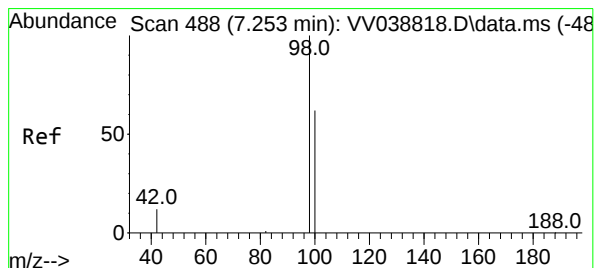
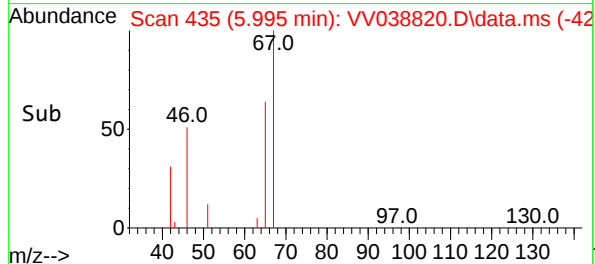
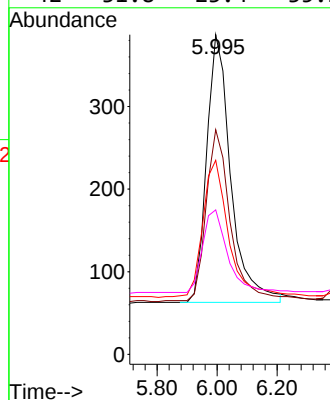
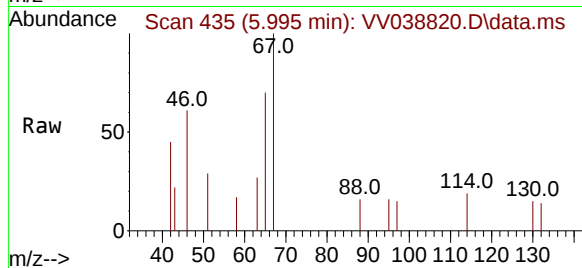




#7
1,2-Dichloropropane-d6
Concen: 0.469 ug/L
RT: 5.995 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV038820.D
Acq: 23 Jun 2025 10:00

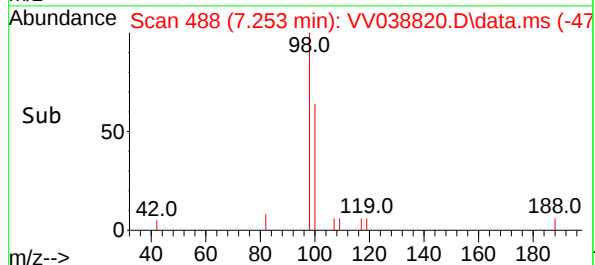
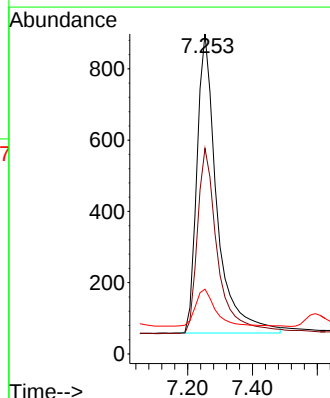
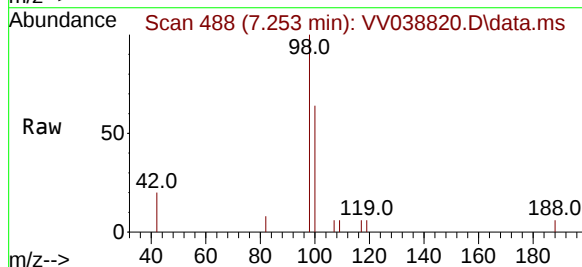
Instrument :
MSVOA_V
ClientSampleId :
PW-B6-L66-061925-SIM

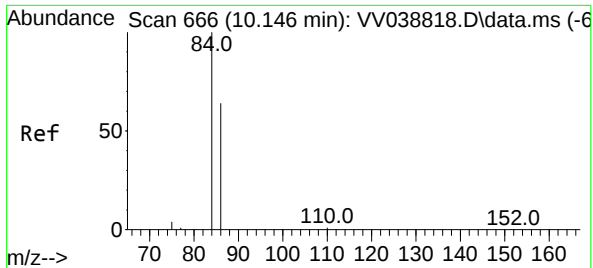
Tgt Ion:	67	Resp:	1812
Ion	Ratio	Lower	Upper
67	100		
65	64.7	48.6	73.0
46	54.9	37.9	56.9
42	31.8	23.4	35.2



#8
Toluene-d8
Concen: 0.460 ug/L
RT: 7.253 min Scan# 488
Delta R.T. -0.000 min
Lab File: VV038820.D
Acq: 23 Jun 2025 10:00

Tgt Ion:	98	Resp:	3588
Ion	Ratio	Lower	Upper
98	100		
100	62.5	44.9	83.5
42	12.3	6.3	11.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.422 ug/L

RT: 10.146 min Scan# 666

Delta R.T. -0.000 min

Lab File: VV038820.D

Acq: 23 Jun 2025 10:00

Instrument :

MSVOA_V

ClientSampleId :

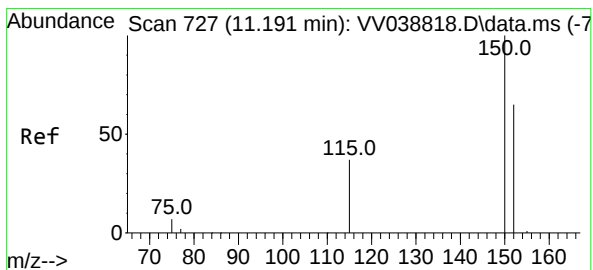
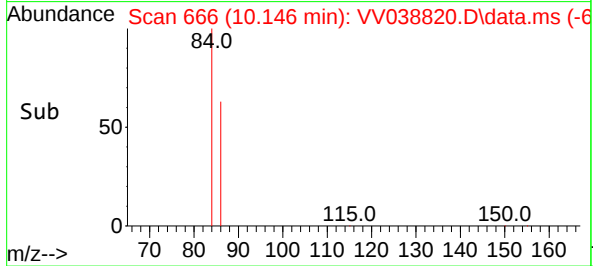
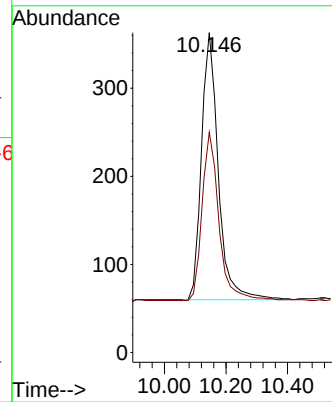
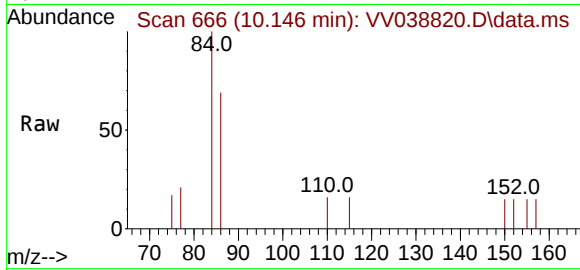
PW-B6-L66-061925-SIM

Tgt Ion: 84 Resp: 1147

Ion Ratio Lower Upper

84 100

86 63.3 44.7 82.9



#11

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.191 min Scan# 727

Delta R.T. -0.000 min

Lab File: VV038820.D

Acq: 23 Jun 2025 10:00

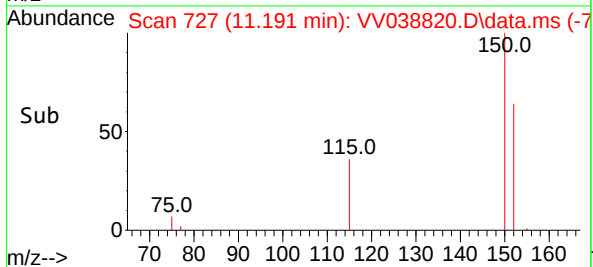
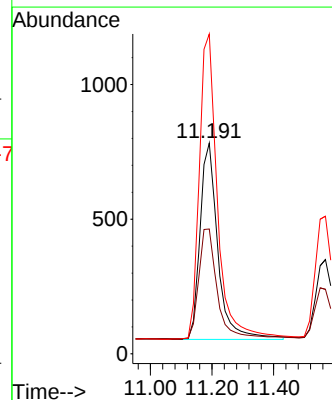
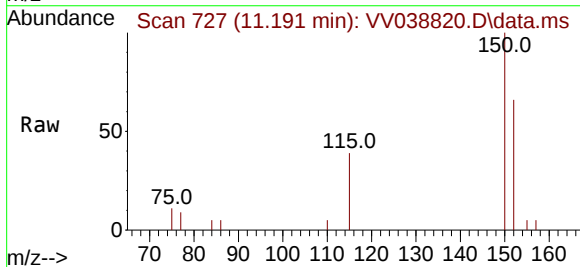
Tgt Ion: 152 Resp: 2936

Ion Ratio Lower Upper

152 100

115 57.4 0.0 114.4

150 158.2 0.0 315.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV062325\
Data File : VV038819.D
Acq On : 23 Jun 2025 09:23
Operator : SY/MD
Sample : VV0623WBL01
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK229

Quant Time: Jun 24 01:40:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM061625.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 21 03:37:28 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	6610	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.785	117	6099	0.500	ug/L	0.00
11) 1,4-Dichlorobenzene-d4	11.191	152	2691	0.500	ug/L	0.00

System Monitoring Compounds						
2) Vinyl Chloride-d3	1.294	65	2995	0.477	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	96.000%
4) 1,2-Dichloroethane-d4	4.969	65	1515	0.492	ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	98.000%
7) 1,2-Dichloropropane-d6	5.995	67	1841	0.533	ug/L	0.00
Spiked Amount	0.500	Range	60 - 140	Recovery	=	106.000%
8) Toluene-d8	7.253	98	3573	0.512	ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	102.000%
10) 1,1,2,2-Tetrachloroeth...	10.146	84	1237	0.510	ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	=	102.000%

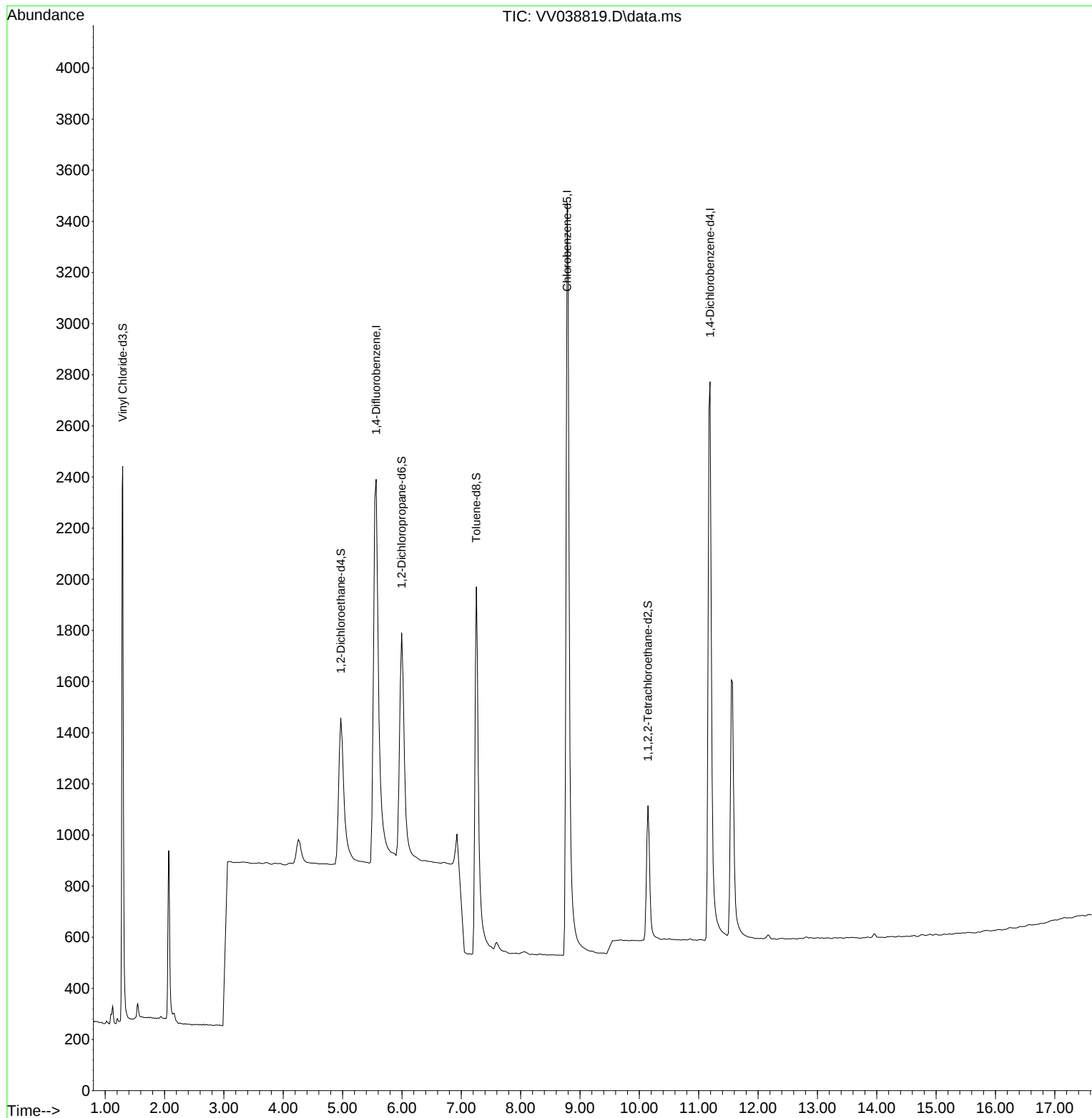
Target Compounds	Qvalue

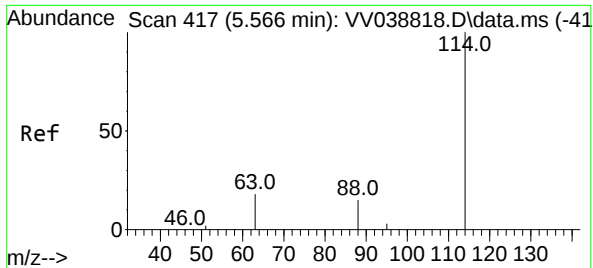
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV062325\
Data File : VV038819.D
Acq On : 23 Jun 2025 09:23
Operator : SY/MD
Sample : VV0623WBL01
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK229

Quant Time: Jun 24 01:40:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM061625.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 21 03:37:28 2025
Response via : Initial Calibration

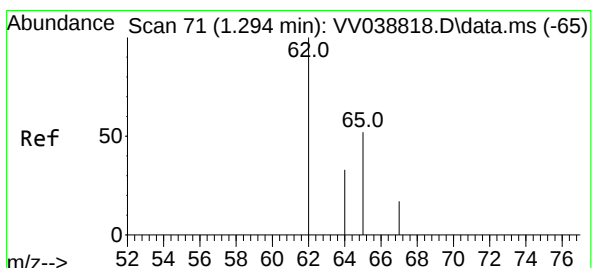
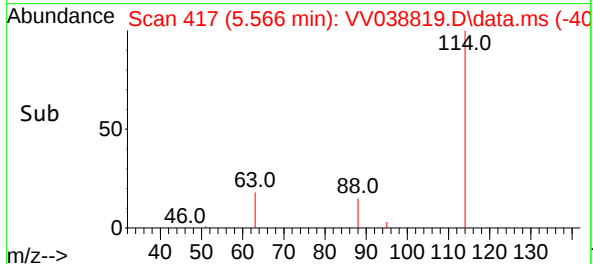
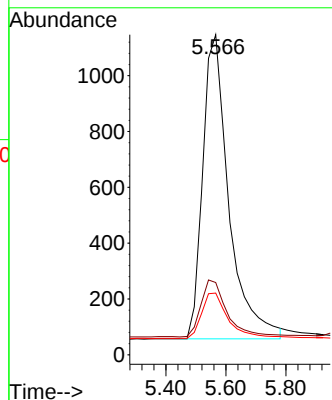
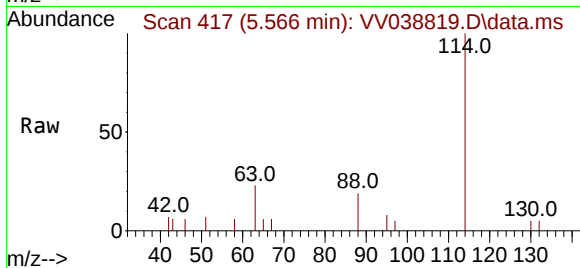




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. -0.000 min
Lab File: VV038819.D
Acq: 23 Jun 2025 09:23

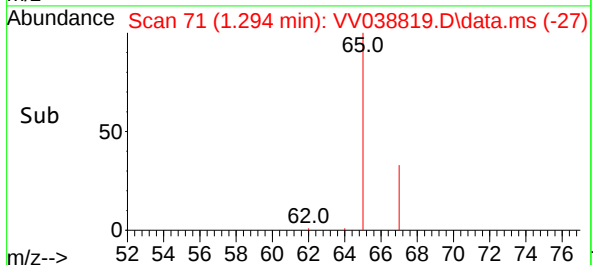
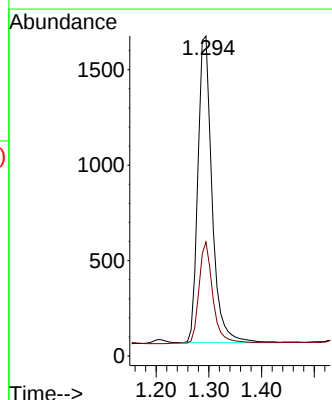
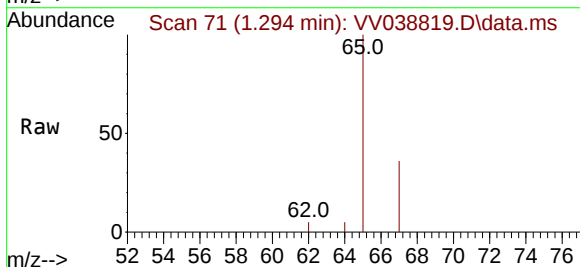
Instrument :
MSVOA_V
ClientSampleId :
VBLK229

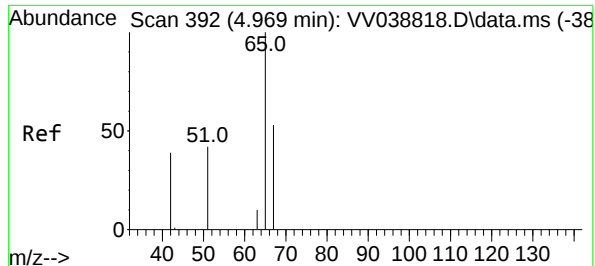
Tgt Ion:114 Resp: 6610
Ion Ratio Lower Upper
114 100
63 18.7 14.6 21.8
88 15.1 12.1 18.1



#2
Vinyl Chloride-d3
Concen: 0.477 ug/L
RT: 1.294 min Scan# 71
Delta R.T. 0.007 min
Lab File: VV038819.D
Acq: 23 Jun 2025 09:23

Tgt Ion: 65 Resp: 2995
Ion Ratio Lower Upper
65 100
67 32.7 24.4 45.4

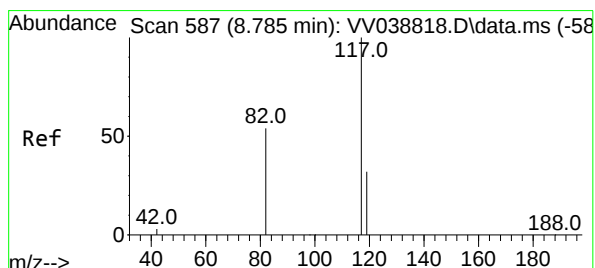
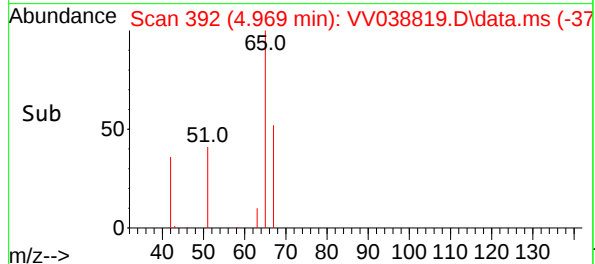
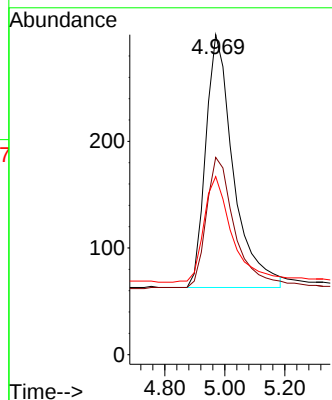
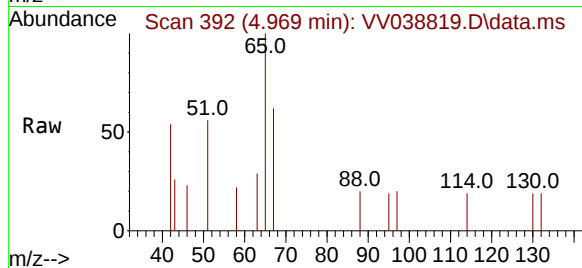




#4
1,2-Dichloroethane-d4
Concen: 0.492 ug/L
RT: 4.969 min Scan# 392
Delta R.T. 0.000 min
Lab File: VV038819.D
Acq: 23 Jun 2025 09:23

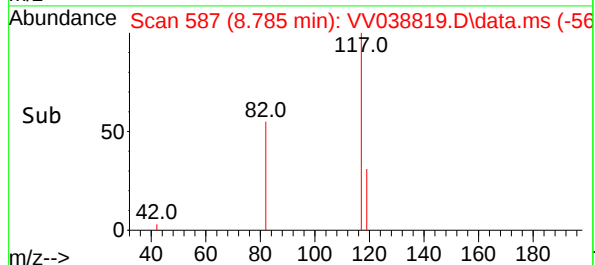
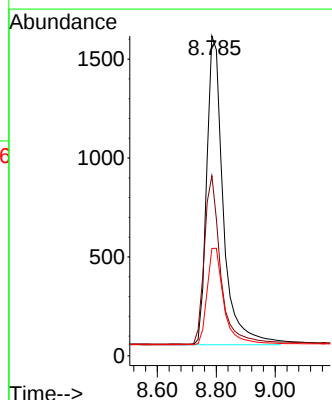
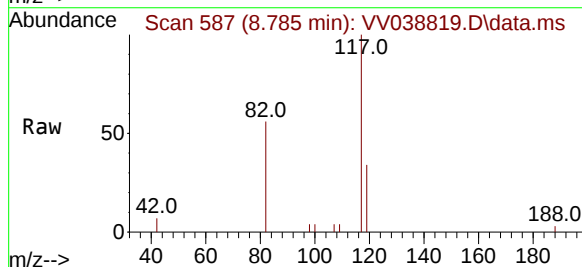
Instrument :
MSVOA_V
ClientSampleId :
VBLK229

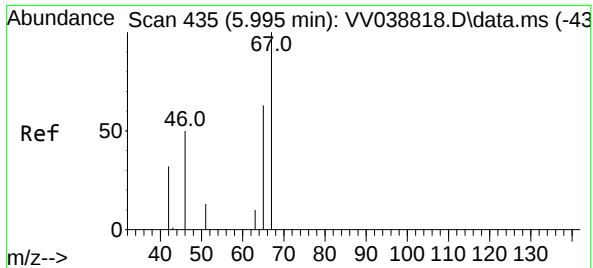
Tgt Ion:	65	Resp:	1515
Ion	Ratio	Lower	Upper
65	100		
67	52.5	38.9	72.2
51	42.7	25.8	47.8



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.785 min Scan# 587
Delta R.T. -0.000 min
Lab File: VV038819.D
Acq: 23 Jun 2025 09:23

Tgt Ion:	117	Resp:	6099
Ion	Ratio	Lower	Upper
117	100		
82	53.4	40.6	60.8
119	31.7	25.7	38.5



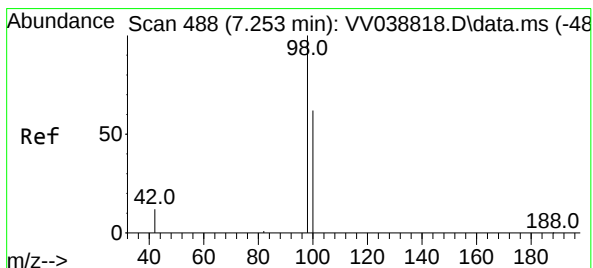
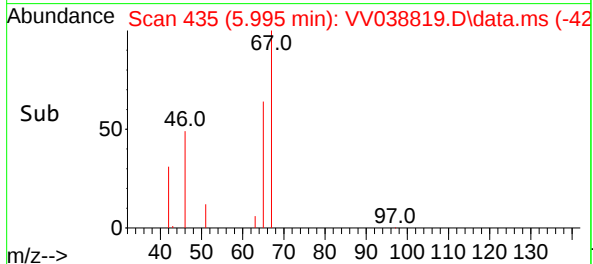
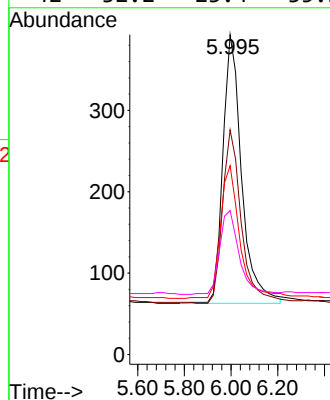
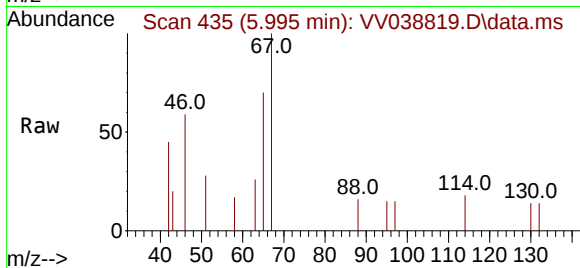


#7
1,2-Dichloropropane-d6
Concen: 0.533 ug/L
RT: 5.995 min Scan# 435
Delta R.T. -0.000 min
Lab File: VV038819.D
Acq: 23 Jun 2025 09:23

Instrument :
MSVOA_V
ClientSampleId :
VBLK229

Tgt Ion: 67 Resp: 1841

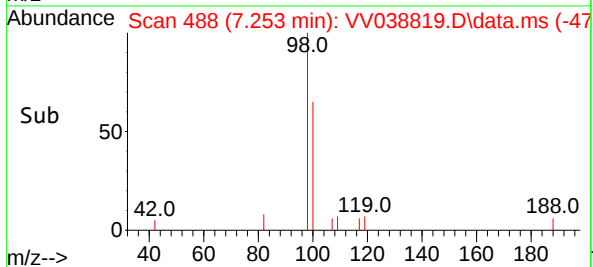
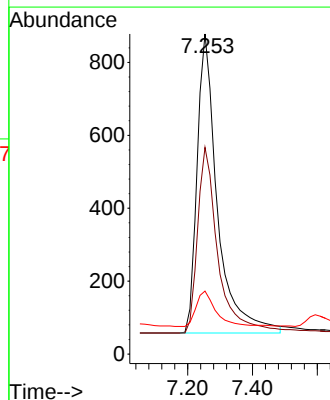
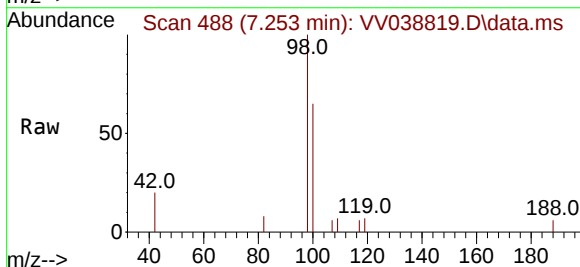
Ion	Ratio	Lower	Upper
67	100		
65	64.7	48.6	73.0
46	50.1	37.9	56.9
42	32.2	23.4	35.2

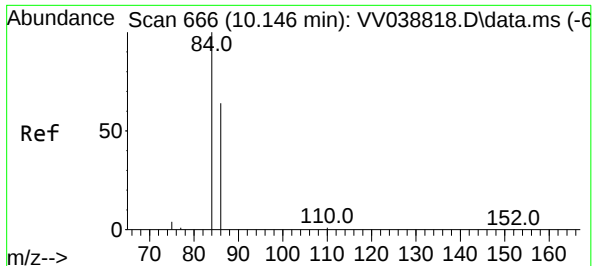


#8
Toluene-d8
Concen: 0.512 ug/L
RT: 7.253 min Scan# 488
Delta R.T. -0.000 min
Lab File: VV038819.D
Acq: 23 Jun 2025 09:23

Tgt Ion: 98 Resp: 3573

Ion	Ratio	Lower	Upper
98	100		
100	61.9	44.9	83.5
42	11.5	6.3	11.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.510 ug/L

RT: 10.146 min Scan# 666

Delta R.T. -0.000 min

Lab File: VV038819.D

Acq: 23 Jun 2025 09:23

Instrument :

MSVOA_V

ClientSampleId :

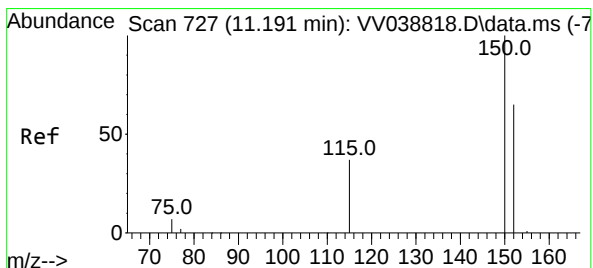
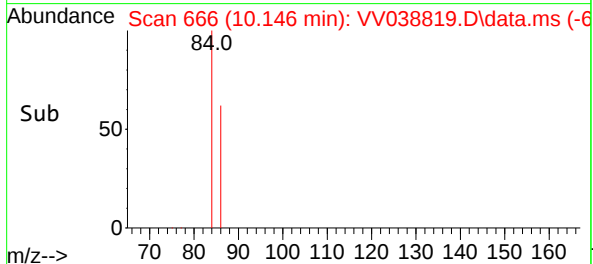
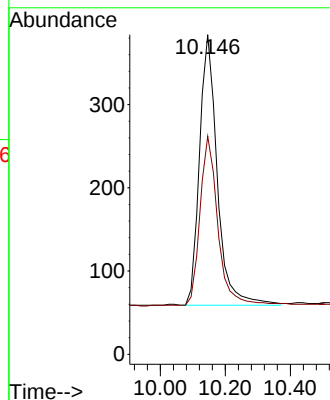
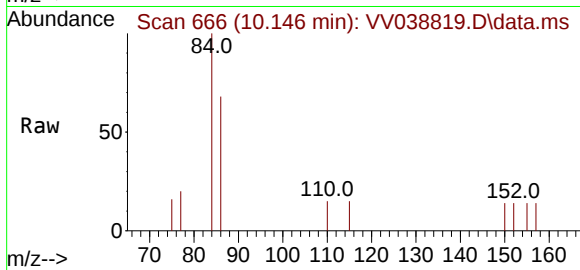
VBLK229

Tgt Ion: 84 Resp: 1237

Ion Ratio Lower Upper

84 100

86 62.4 44.7 82.9



#11

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.191 min Scan# 727

Delta R.T. -0.000 min

Lab File: VV038819.D

Acq: 23 Jun 2025 09:23

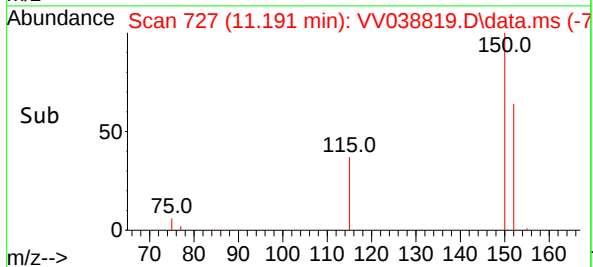
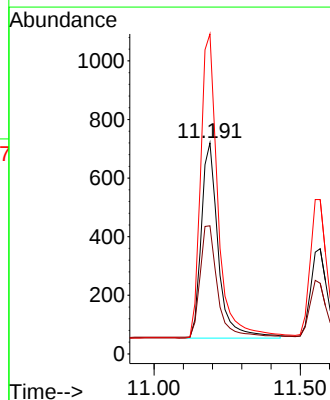
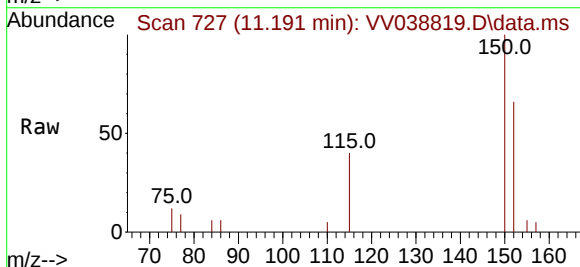
Tgt Ion: 152 Resp: 2691

Ion Ratio Lower Upper

152 100

115 58.1 0.0 114.4

150 158.2 0.0 315.4





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

Manual Integration Report

Sequence:

VV061625

Instrument

MSVOA_v

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



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

Manual Integration Report

Sequence:

VV062325

Instrument

MSVOA_v

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_V**

Daily Analysis Runlog For Sequence/QC Batch ID # VV061625

Review By	John Carlone	Review On	6/17/2025 8:36:26 AM		
Supervise By	Maresh Dadoda	Supervise On	6/17/2025 8:46:56 AM		
SubDirectory	VV061625	HP Acquire Method	EPASIM_V	HP Processing Method	sfamvsim061625w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP134339			
Initial Calibration Stds		VP134341,VP134343,VP134345,VP135347,VP135349			
CCC		VP135359,MDL-VP135357			
Internal Standard/PEM		VP133385			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB235	VV038795.D	16 Jun 2025 08:45	SY/MD	Ok
2	VSTD0.0542	VV038796.D	16 Jun 2025 09:28	SY/MD	Ok
3	VSTD0.143	VV038797.D	16 Jun 2025 10:15	SY/MD	Ok
4	VSTD0.544	VV038798.D	16 Jun 2025 10:43	SY/MD	Ok
5	VSTD00145	VV038799.D	16 Jun 2025 11:14	SY/MD	Ok
6	VSTD00246	VV038800.D	16 Jun 2025 11:36	SY/MD	Ok
7	VSTDICV0.5	VV038801.D	16 Jun 2025 12:07	SY/MD	Ok
8	VV0616WBL01	VV038802.D	16 Jun 2025 13:06	SY/MD	Ok
9	Q2117-01	VV038803.D	16 Jun 2025 14:31	SY/MD	Ok
10	VSTDCCC0.5EC	VV038804.D	16 Jun 2025 15:07	SY/MD	Ok

M : Manual Integration

Instrument ID: **MSVOA_V**

Daily Analysis Runlog For Sequence/QC Batch ID # VV062325

Review By	Semsettin Yesilyurt	Review On	6/24/2025 8:29:46 AM		
Supervise By	Maresh Dadoda	Supervise On	6/24/2025 8:30:34 AM		
SubDirectory	VV062325	HP Acquire Method	epamsim_v	HP Processing Method	sfamusim061625w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP134454			
CCC		VP134455,VP134456			
Internal Standard/PEM		VP133385			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB238	VV038817.D	23 Jun 2025 08:07	SY/MD	Ok
2	VSTDCCC0.5	VV038818.D	23 Jun 2025 08:44	SY/MD	Ok
3	VV0623WBL01	VV038819.D	23 Jun 2025 09:23	SY/MD	Ok
4	Q2377-02	VV038820.D	23 Jun 2025 10:00	SY/MD	Ok
5	VSTDCCC0.5EC	VV038821.D	23 Jun 2025 13:37	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QC Batch ID # VV061625

Review By	John Carlone	Review On	6/17/2025 8:36:26 AM
Supervise By	Maresh Dadoda	Supervise On	6/17/2025 8:46:56 AM
SubDirectory	VV061625	HP Acquire Method	EPASIM_V HP Processing Method sfamvsim061625w.m

STD. NAME	STD REF.#
Tune/Reschk	VP134339
Initial Calibration Stds	VP134341,VP134343,VP134345,VP135347,VP135349
CCC	VP135359,MDL-VP135357
Internal Standard/PEM	VP133385
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB235	BFB235	VV038795.D	16 Jun 2025 08:45		SY/MD	Ok
2	VSTD0.0542	VSTD0.05242	VV038796.D	16 Jun 2025 09:28		SY/MD	Ok
3	VSTD0.143	VSTD0.1243	VV038797.D	16 Jun 2025 10:15		SY/MD	Ok
4	VSTD0.544	VSTD0.5244	VV038798.D	16 Jun 2025 10:43		SY/MD	Ok
5	VSTD00145	VSTD001245	VV038799.D	16 Jun 2025 11:14		SY/MD	Ok
6	VSTD00246	VSTD002246	VV038800.D	16 Jun 2025 11:36		SY/MD	Ok
7	VSTDICV0.5	VICV247	VV038801.D	16 Jun 2025 12:07		SY/MD	Ok
8	VV0616WBL01	VBLK226	VV038802.D	16 Jun 2025 13:06		SY/MD	Ok
9	Q2117-01	MDL-WATER-QT2-202	VV038803.D	16 Jun 2025 14:31	trace-sim	SY/MD	Ok
10	VSTDCCC0.5EC	VSTD0.5319	VV038804.D	16 Jun 2025 15:07		SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QC Batch ID # VV062325

Review By	Semsettin Yesilyurt	Review On	6/24/2025 8:29:46 AM
Supervise By	Mahesh Dadoda	Supervise On	6/24/2025 8:30:34 AM
SubDirectory	VV062325	HP Acquire Method	epamsim_v HP Processing Method sfamusim061625w.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134454
CCC	VP134455, VP134456
Internal Standard/PEM	VP133385
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB238	BFB238	VV038817.D	23 Jun 2025 08:07		SY/MD	Ok
2	VSTDCCC0.5	VSTD0.5324	VV038818.D	23 Jun 2025 08:44		SY/MD	Ok
3	VV0623WBL01	VBLK229	VV038819.D	23 Jun 2025 09:23		SY/MD	Ok
4	Q2377-02	PW-B6-L66-061925-SI	VV038820.D	23 Jun 2025 10:00		SY/MD	Ok
5	VSTDCCC0.5EC	VSTD0.5325	VV038821.D	23 Jun 2025 13:37		SY/MD	Ok

M : Manual Integration

LAB CHRONICLE

OrderID:	Q2377	OrderDate:	6/20/2025 11:23:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	D51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2377-01	PW-B6-L66-061925	Water	VOCMS Group3	524.2	06/19/25		06/24/25	06/19/25
Q2377-02	PW-B6-L66-061925-S IM	Water	VOC-SIM	SFAM_VOCSI M	06/19/25		06/23/25	06/19/25
Q2377-03	TB01-061925	Water	VOCMS Group3	524.2	06/19/25		06/24/25	06/19/25