

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047110.D
 Acq On : 24 Jul 2025 11:42
 Operator : JC/MD
 Sample : Q2682-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 25 01:20:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

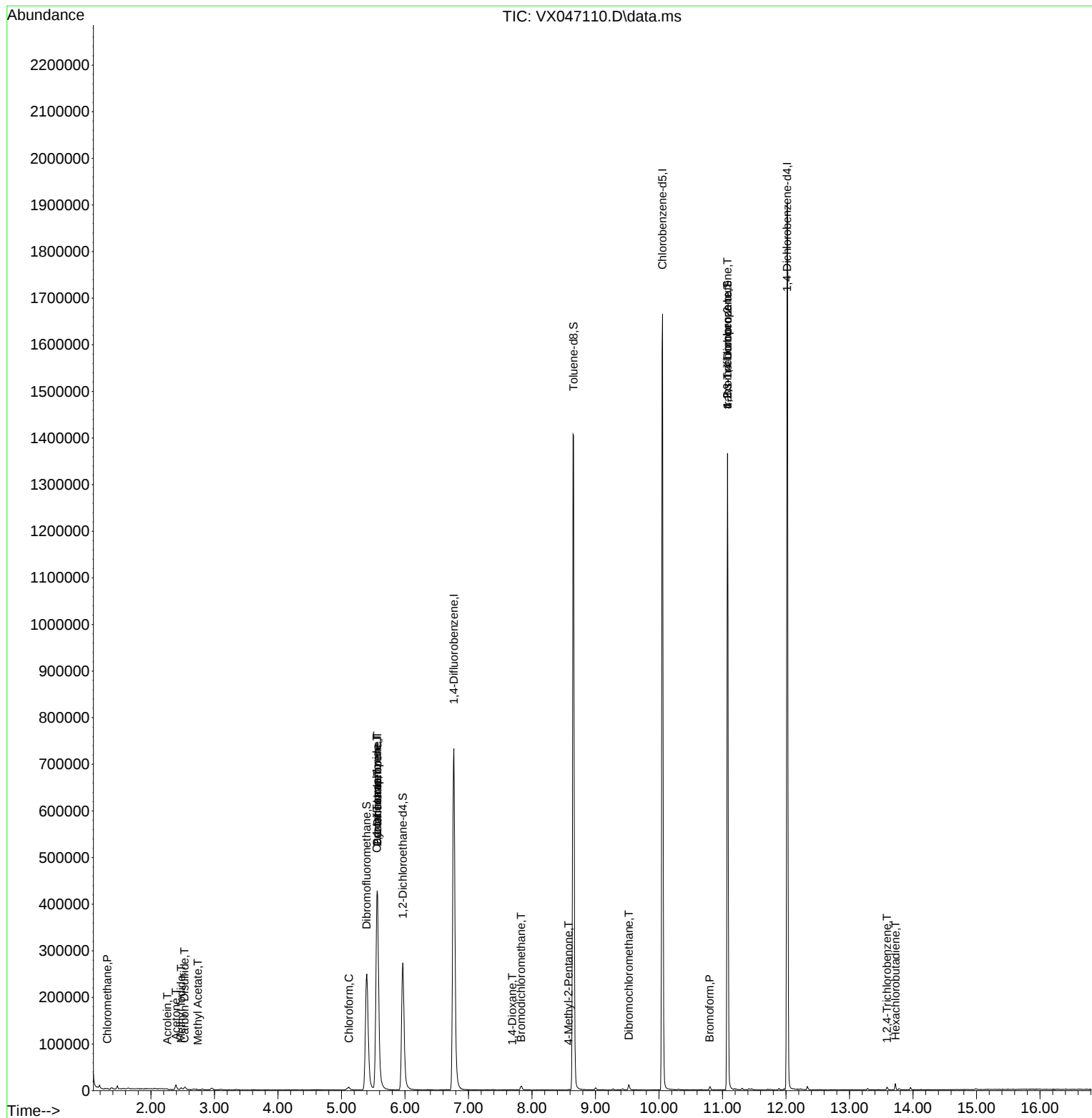
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	421125	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	776912	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	738162	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	372346	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	287239	54.755	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	109.520%
35) Dibromofluoromethane	5.398	113	237042	49.416	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.840%
50) Toluene-d8	8.653	98	870627	56.044	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	112.080%#
62) 4-Bromofluorobenzene	11.079	95	365051	54.529	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.060%
Target Compounds						
3) Chloromethane	1.313	50	1444	0.261	ug/l	100
10) Methyl Iodide	2.477	142	6093	1.119	ug/l	93
11) Tert butyl alcohol	2.953	59	1937	Below Cal	#	79
13) Acrolein	2.258	56	559	0.495	ug/l	98
16) Acetone	2.392	43	11940	5.682	ug/l	99
17) Carbon Disulfide	2.526	76	5088	0.332	ug/l	97
18) Methyl Acetate	2.739	43	1130	0.202	ug/l	# 72
30) Chloroform	5.117	83	7301	0.701	ug/l	90
31) Cyclohexane	5.562	56	10728	1.094	ug/l	# 19
36) 1,1-Dichloropropene	5.562	75	36227	4.430	ug/l	# 51
38) Carbon Tetrachloride	5.556	117	45793	5.247	ug/l	# 15
47) Bromodichloromethane	7.830	83	6231	0.704	ug/l	90
49) 1,4-Dioxane	7.690	88	237	3.256	ug/l	# 70
51) 4-Methyl-2-Pentanone	8.574	43	1569	0.225	ug/l	# 37
60) Dibromochloromethane	9.525	129	5056	0.790	ug/l	99
71) Bromoform	10.799	173	2944	0.666	ug/l	# 97
76) 1,2,3-Trichloropropane	11.079	75	191062	27.723	ug/l	# 34
81) trans-1,4-Dichloro-2-b...	11.079	75	191062	71.424	ug/l	# 8
93) 1,2,4-Trichlorobenzene	13.591	180	1860	0.220	ug/l	83
94) Hexachlorobutadiene	13.725	225	1733	0.603	ug/l	93

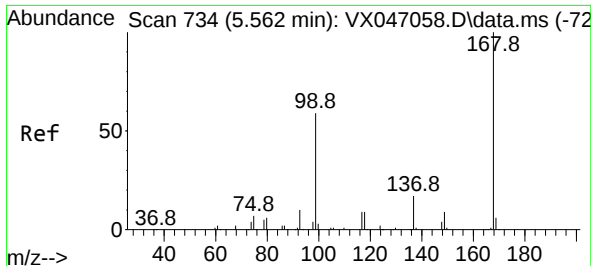
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jul 25 01:20:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

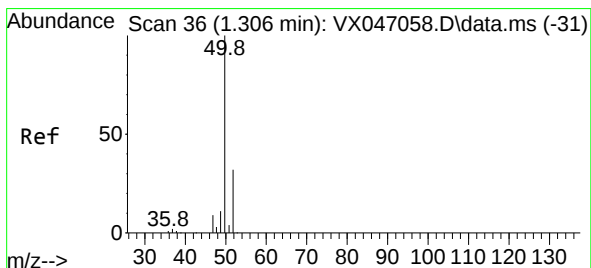
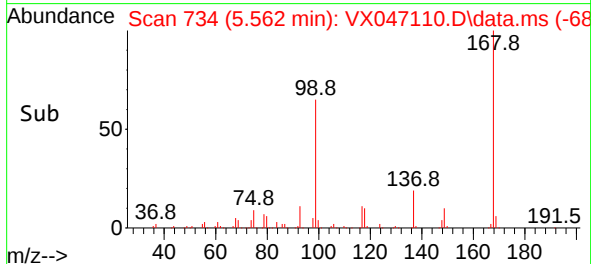
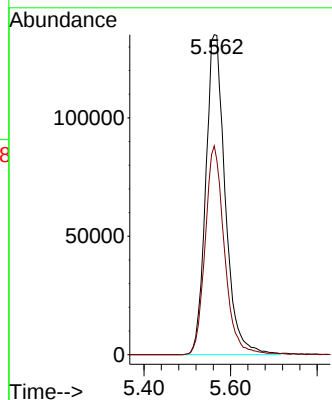
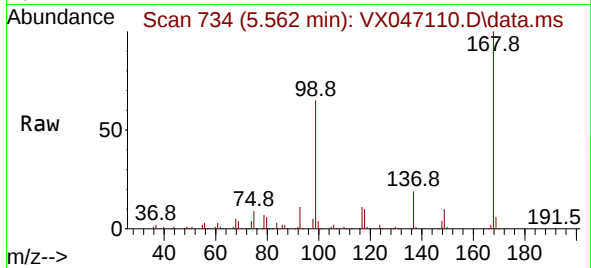




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

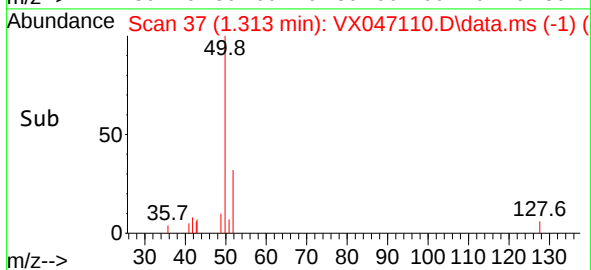
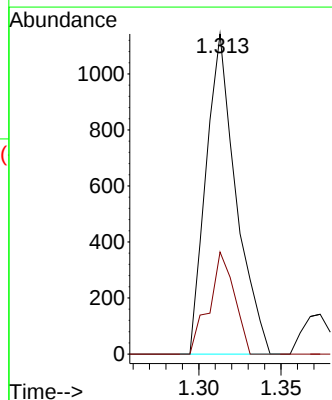
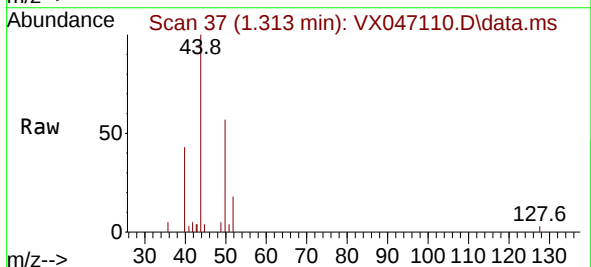
Instrument :
MSVOA_X
ClientSampleId :

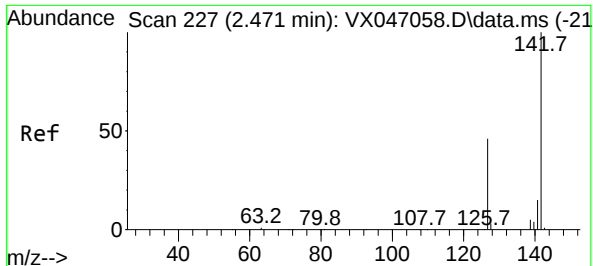
Tgt Ion:168 Resp: 421125
Ion Ratio Lower Upper
168 100
99 65.2 48.0 72.0



#3
Chloromethane
Concen: 0.261 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.007 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

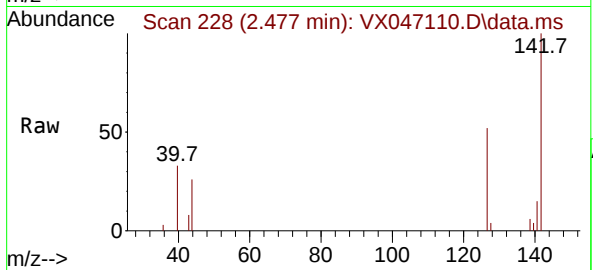
Tgt Ion: 50 Resp: 1444
Ion Ratio Lower Upper
50 100
52 31.8 25.4 38.2



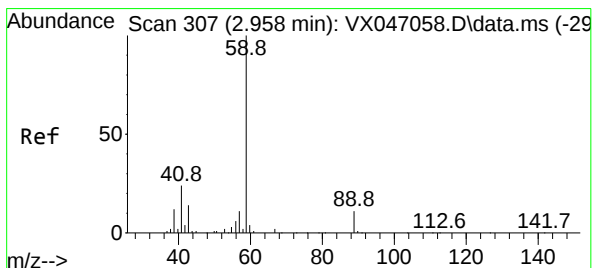
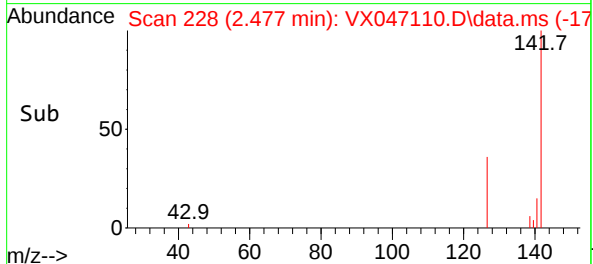
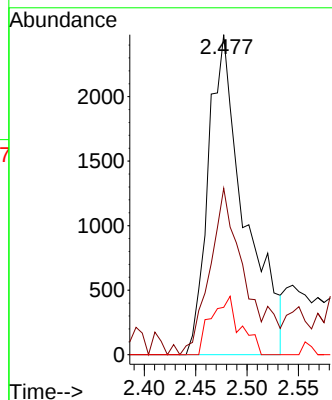


#10
Methyl Iodide
Concen: 1.119 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.007 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Instrument :
MSVOA_X
ClientSampleId :

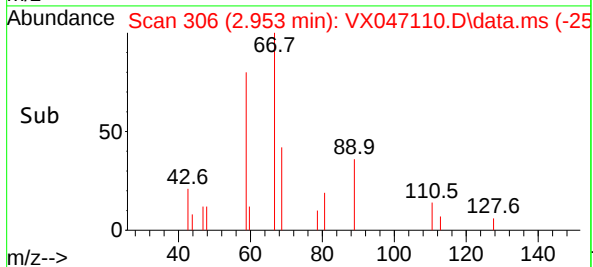
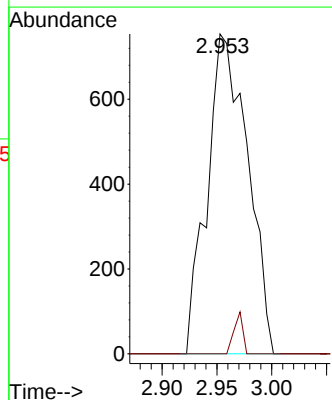
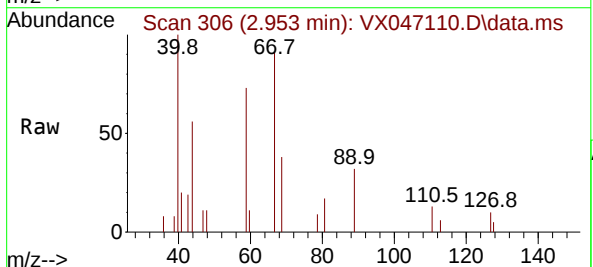


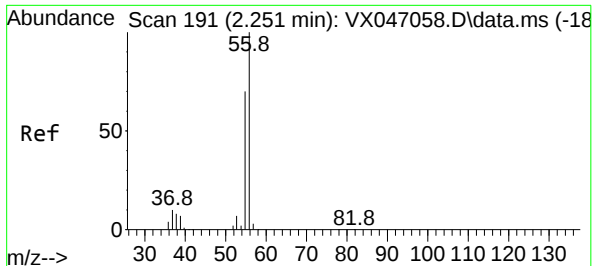
Tgt Ion:142 Resp: 6093
Ion Ratio Lower Upper
142 100
127 51.2 36.6 54.8
141 14.6 10.9 16.3



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.953 min Scan# 306
Delta R.T. -0.005 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Tgt Ion: 59 Resp: 1937
Ion Ratio Lower Upper
59 100
57 2.8 8.5 12.7#

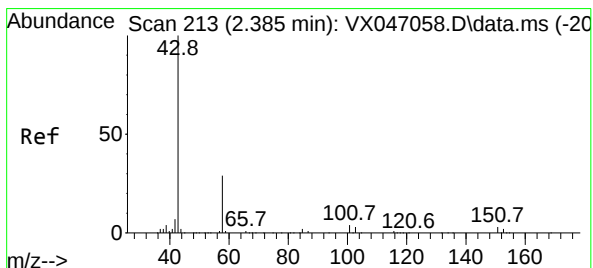
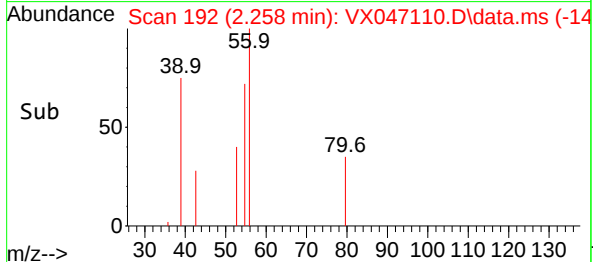
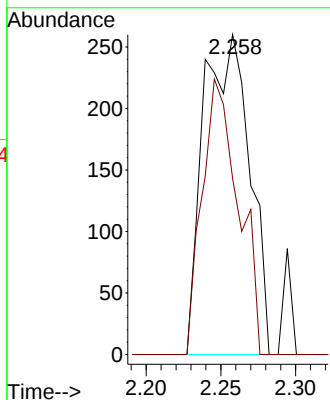
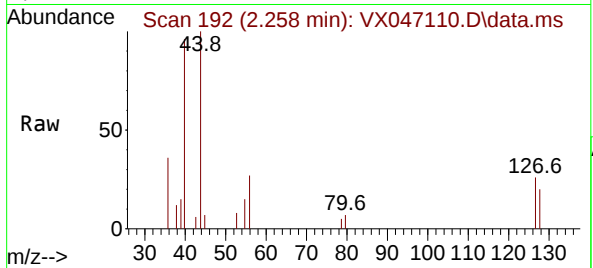




#13
Acrolein
Concen: 0.495 ug/l
RT: 2.258 min Scan# 191
Delta R.T. 0.007 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

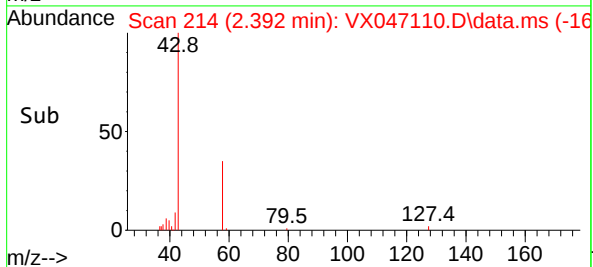
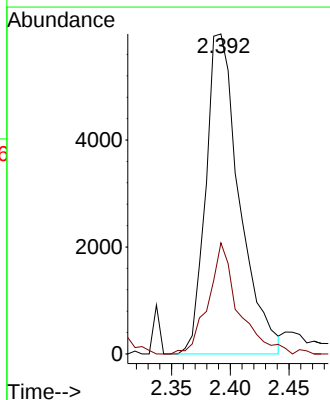
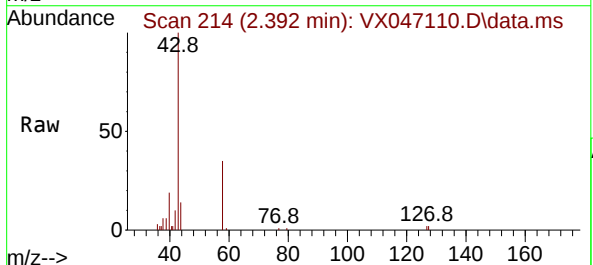
Instrument :
MSVOA_X
ClientSampleId :

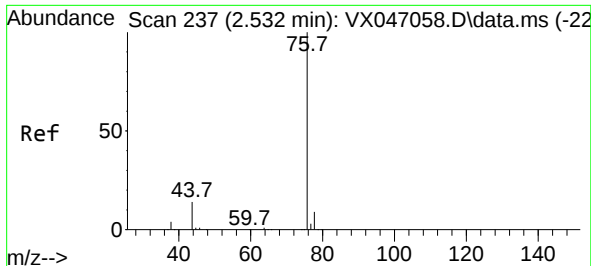
Tgt Ion: 56 Resp: 559
Ion Ratio Lower Upper
56 100
55 67.6 55.7 83.5



#16
Acetone
Concen: 5.682 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.007 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Tgt Ion: 43 Resp: 11940
Ion Ratio Lower Upper
43 100
58 29.4 24.0 36.0

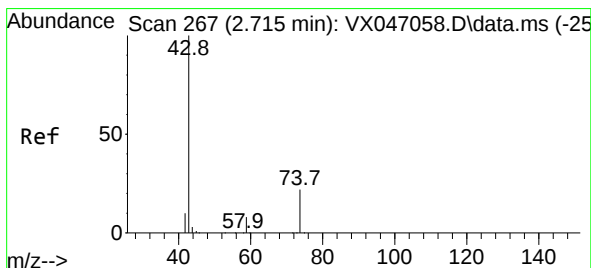
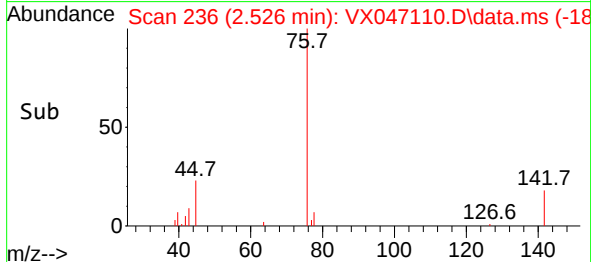
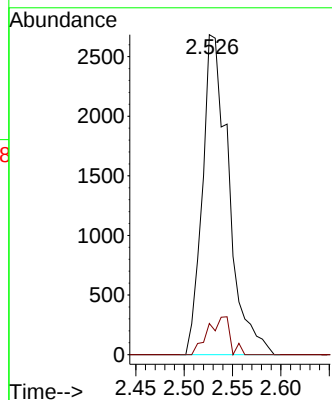
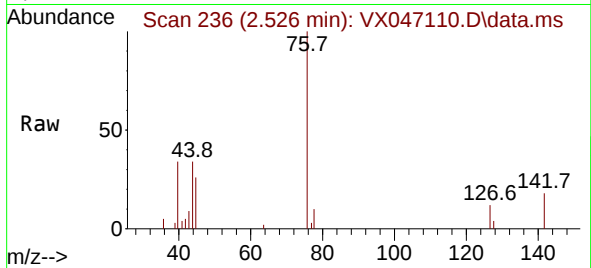




#17
Carbon Disulfide
Concen: 0.332 ug/l
RT: 2.526 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

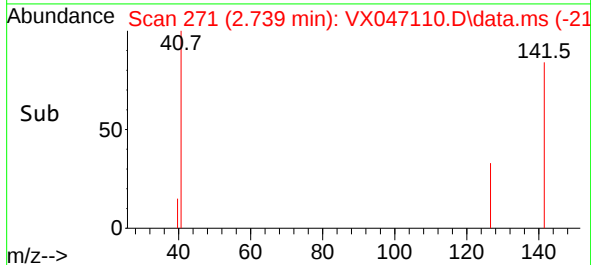
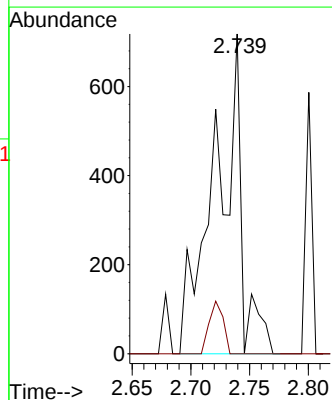
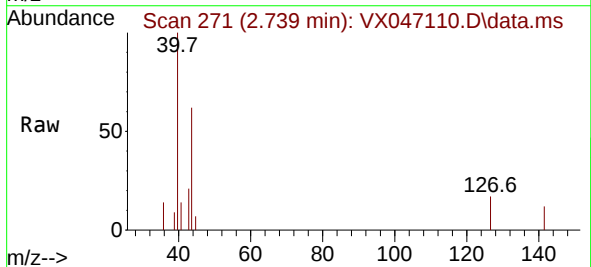
Instrument :
MSVOA_X
ClientSampleId :

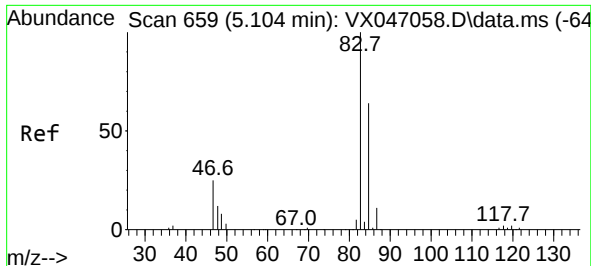
Tgt Ion: 76 Resp: 5088
Ion Ratio Lower Upper
76 100
78 9.7 7.0 10.4



#18
Methyl Acetate
Concen: 0.202 ug/l
RT: 2.739 min Scan# 271
Delta R.T. 0.025 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Tgt Ion: 43 Resp: 1130
Ion Ratio Lower Upper
43 100
74 8.7 17.7 26.5#





#30

Chloroform

Concen: 0.701 ug/l

RT: 5.117 min Scan# 61

Delta R.T. 0.013 min

Lab File: VX047110.D

Acq: 24 Jul 2025 11:42

Instrument :

MSVOA_X

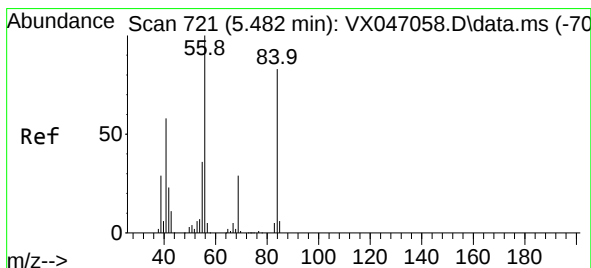
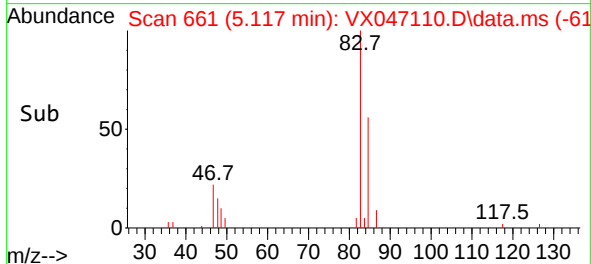
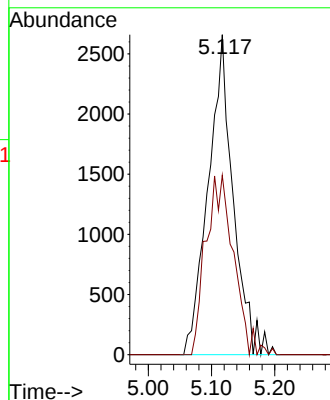
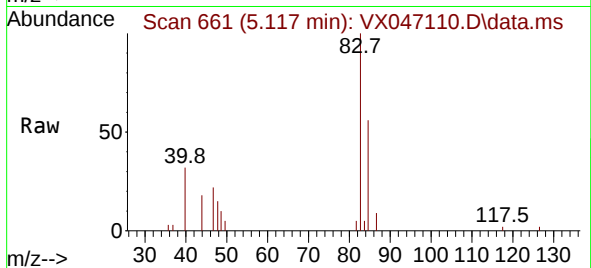
ClientSampleId :

Tgt Ion: 83 Resp: 7301

Ion Ratio Lower Upper

83 100

85 56.1 50.9 76.3



#31

Cyclohexane

Concen: 1.094 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.080 min

Lab File: VX047110.D

Acq: 24 Jul 2025 11:42

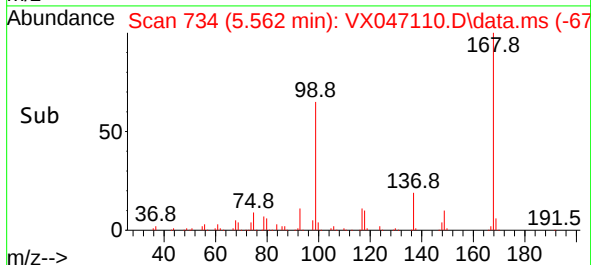
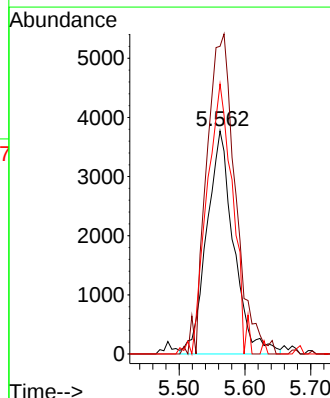
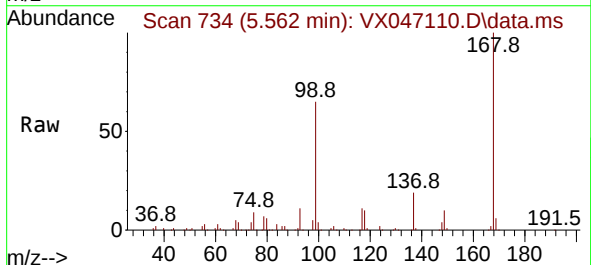
Tgt Ion: 56 Resp: 10728

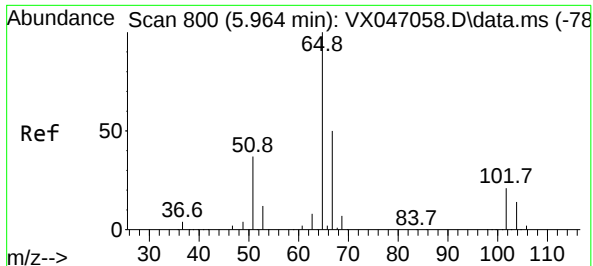
Ion Ratio Lower Upper

56 100

69 135.2 23.3 34.9#

84 118.7 66.5 99.7#





#33

1,2-Dichloroethane-d4

Concen: 54.755 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.001 min

Lab File: VX047110.D

Acq: 24 Jul 2025 11:42

Instrument :

MSVOA_X

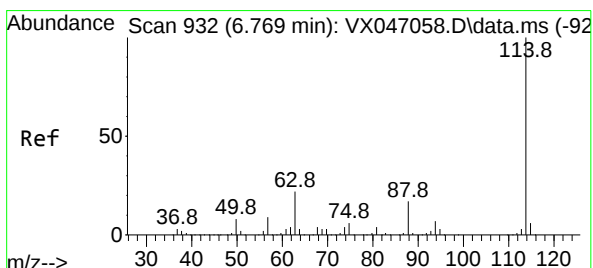
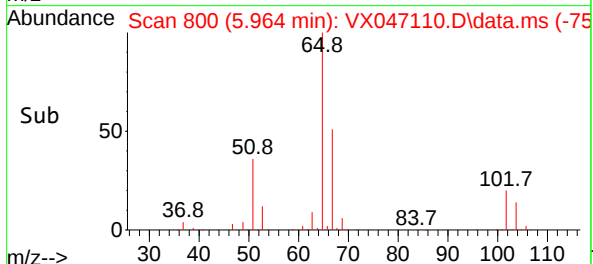
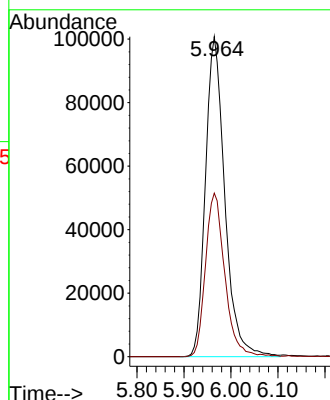
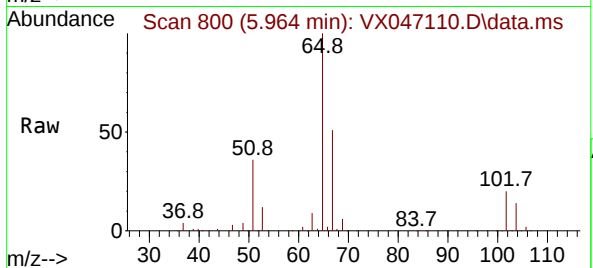
ClientSampleId :

Tgt Ion: 65 Resp: 287239

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.001 min

Lab File: VX047110.D

Acq: 24 Jul 2025 11:42

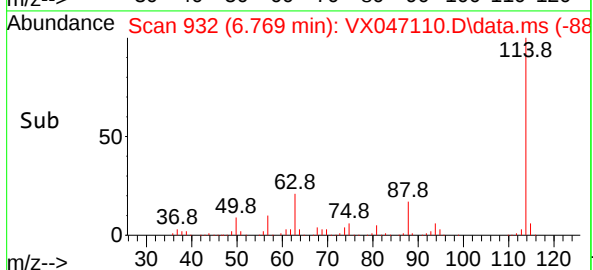
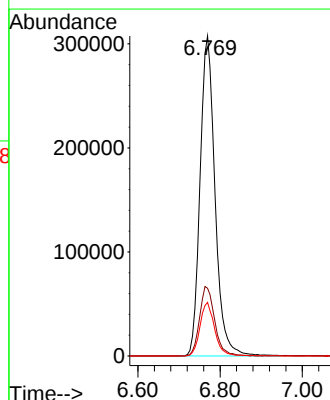
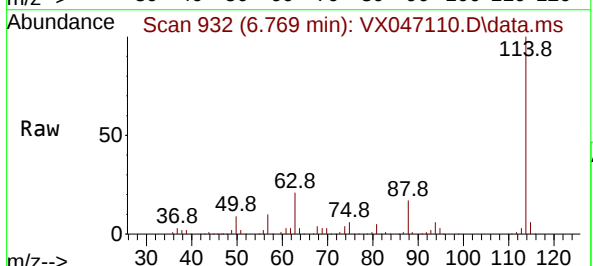
Tgt Ion: 114 Resp: 776912

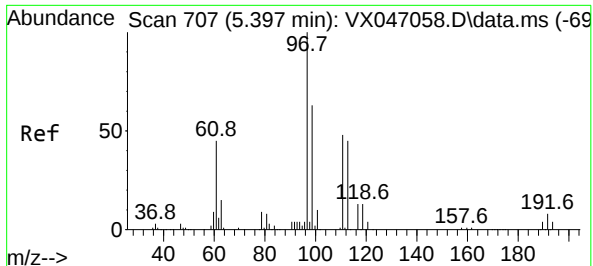
Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

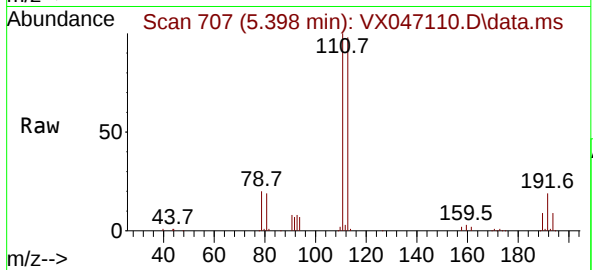
88 16.7 0.0 33.8



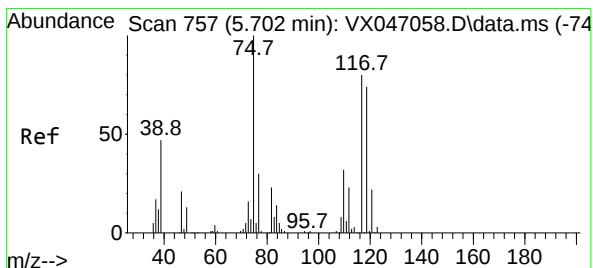
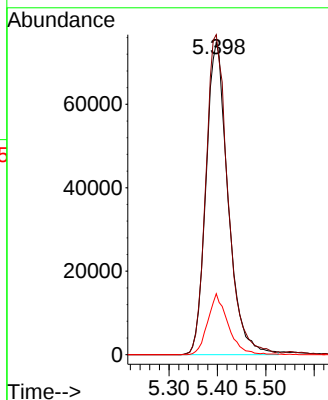
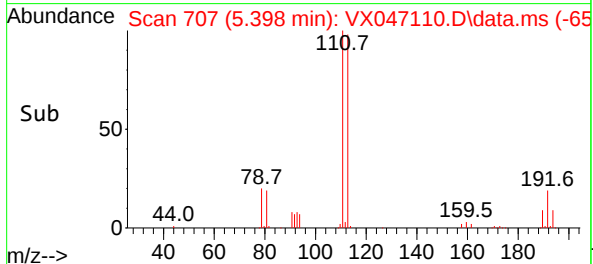


#35
Dibromofluoromethane
Concen: 49.416 ug/l
RT: 5.398 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Instrument :
MSVOA_X
ClientSampleId :

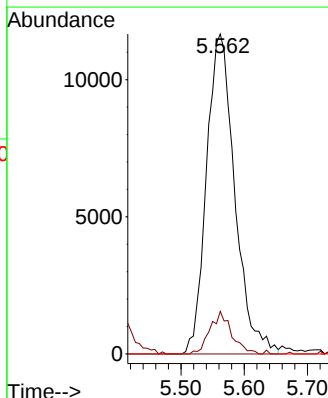
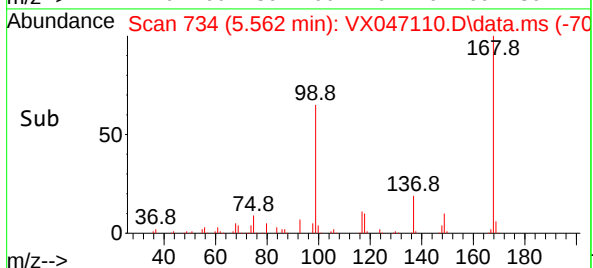
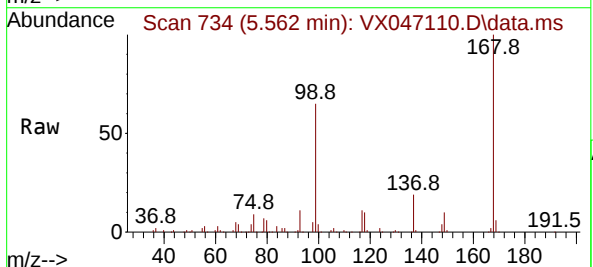


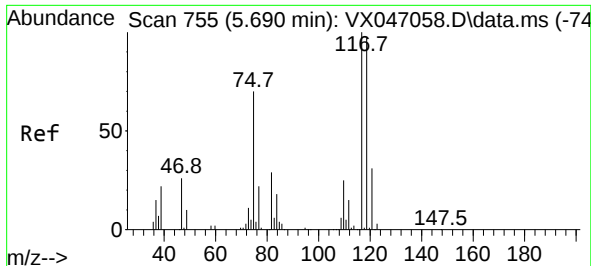
Tgt Ion:113 Resp: 237042
Ion Ratio Lower Upper
113 100
111 102.8 82.6 124.0
192 18.1 14.9 22.3



#36
1,1-Dichloropropene
Concen: 4.430 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.140 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

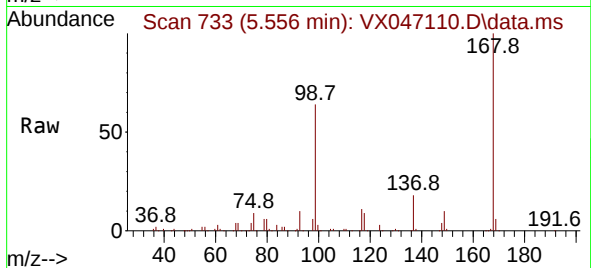
Tgt Ion: 75 Resp: 36227
Ion Ratio Lower Upper
75 100
110 10.2 17.2 51.5#
77 0.0 25.1 37.7#



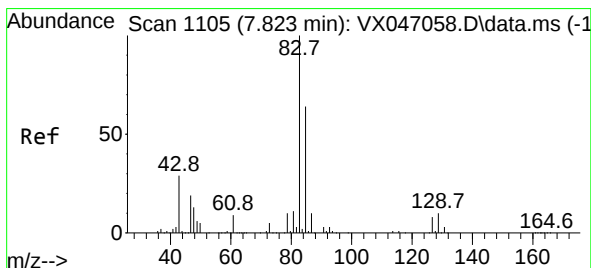
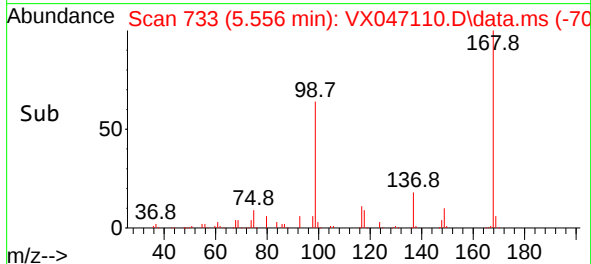
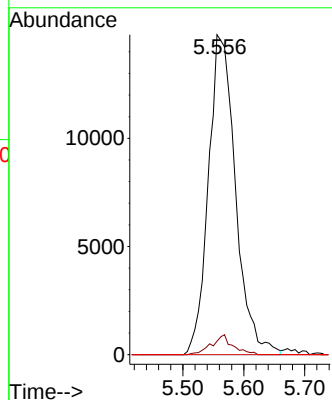


#38
Carbon Tetrachloride
Concen: 5.247 ug/l
RT: 5.556 min Scan# 711
Delta R.T. -0.134 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Instrument :
MSVOA_X
ClientSampleId :

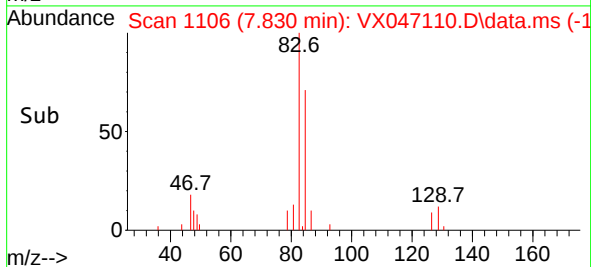
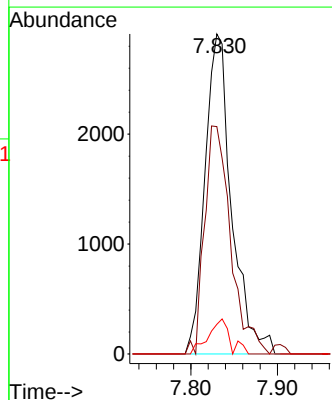
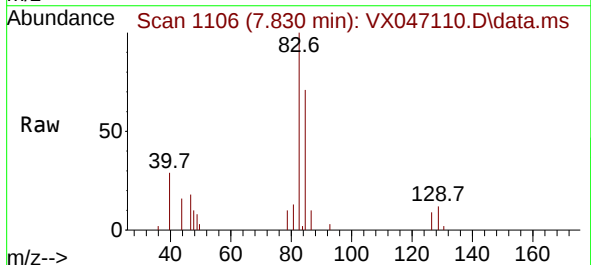


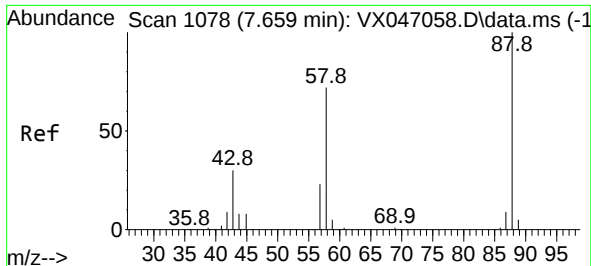
Tgt Ion:117 Resp: 45793
Ion Ratio Lower Upper
117 100
119 4.2 76.6 115.0#
121 0.0 24.4 36.6#



#47
Bromodichloromethane
Concen: 0.704 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.007 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

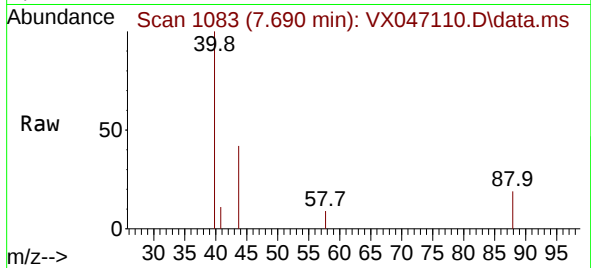
Tgt Ion: 83 Resp: 6231
Ion Ratio Lower Upper
83 100
85 71.1 49.9 74.9
127 9.3 6.6 10.0



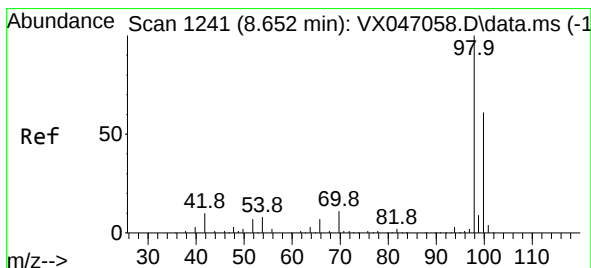
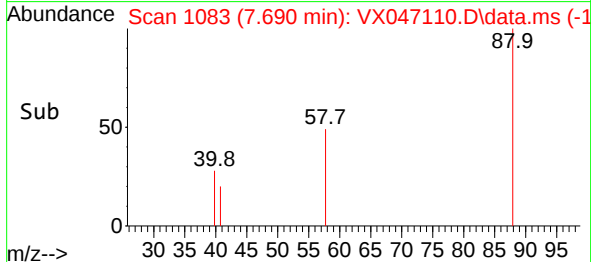
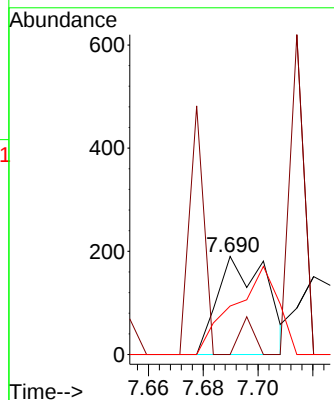


#49
1,4-Dioxane
Concen: 3.256 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.031 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Instrument :
MSVOA_X
ClientSampleId :

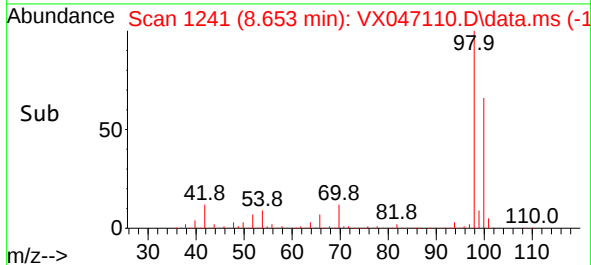
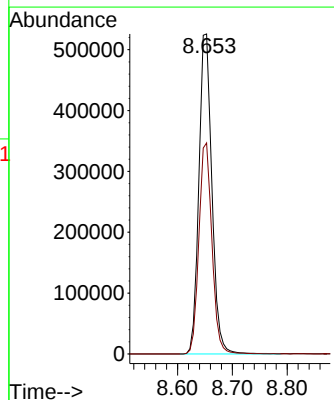
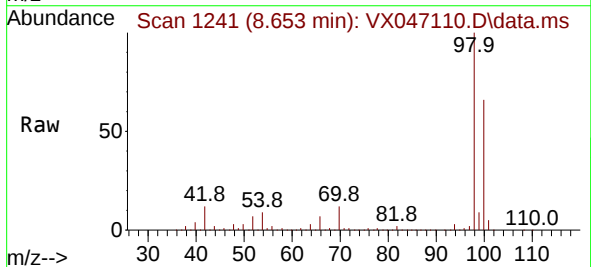


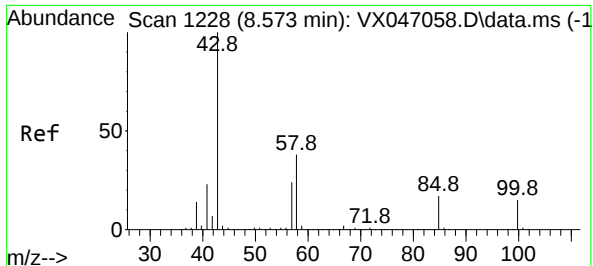
Tgt Ion: 88	Resp: 237
Ion Ratio	Lower Upper
88 100	
43 0.0	33.6 50.4#
58 81.9	58.8 88.2



#50
Toluene-d8
Concen: 56.044 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.001 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Tgt Ion: 98	Resp: 870627
Ion Ratio	Lower Upper
98 100	
100 66.1	53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 0.225 ug/l

RT: 8.574 min Scan# 11

Delta R.T. 0.001 min

Lab File: VX047110.D

Acq: 24 Jul 2025 11:42

Instrument :

MSVOA_X

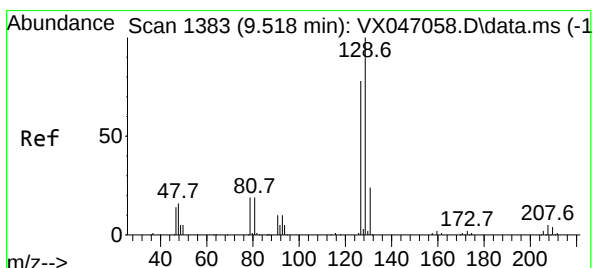
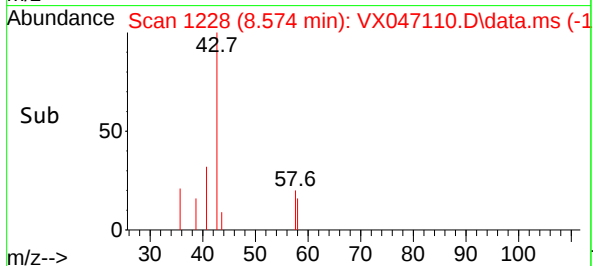
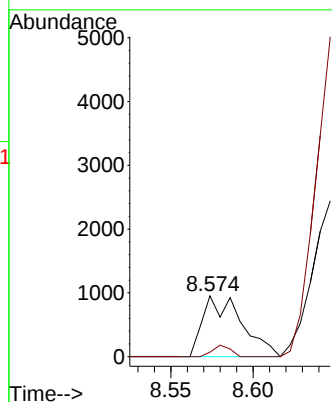
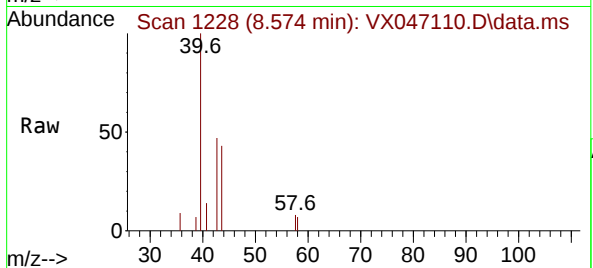
ClientSampleId :

Tgt Ion: 43 Resp: 1569

Ion Ratio Lower Upper

43 100

58 0.0 30.6 45.8#



#60

Dibromochloromethane

Concen: 0.790 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.007 min

Lab File: VX047110.D

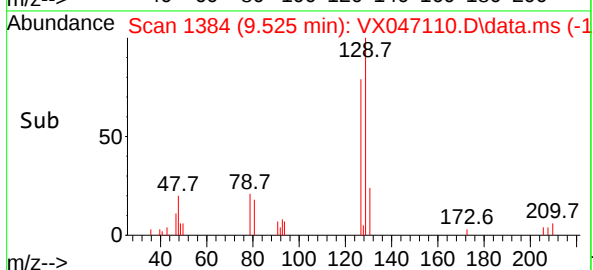
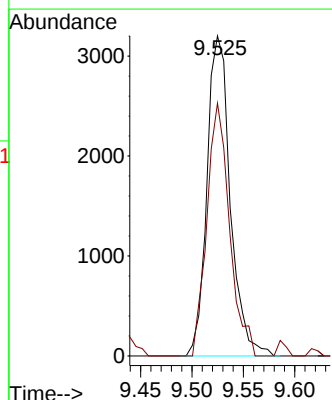
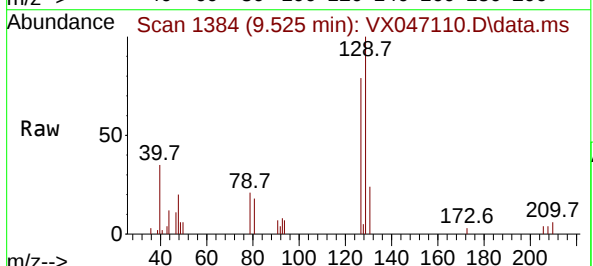
Acq: 24 Jul 2025 11:42

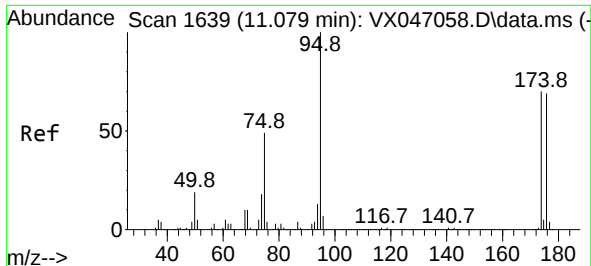
Tgt Ion: 129 Resp: 5056

Ion Ratio Lower Upper

129 100

127 76.6 38.6 115.8





#62

4-Bromofluorobenzene

Concen: 54.529 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.001 min

Lab File: VX047110.D

Acq: 24 Jul 2025 11:42

Instrument :

MSVOA_X

ClientSampleId :

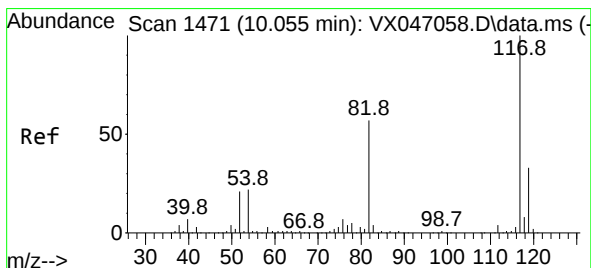
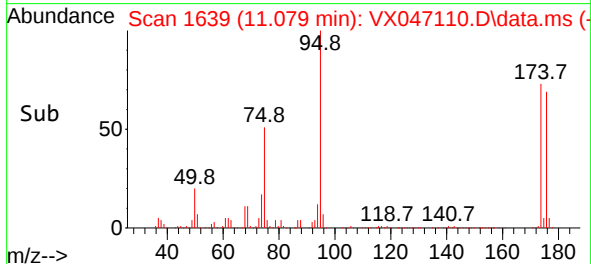
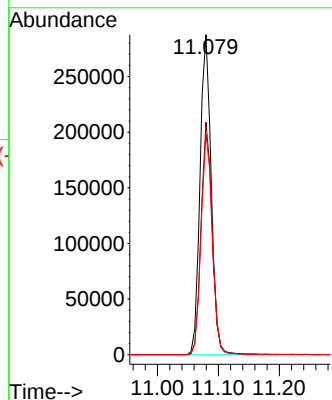
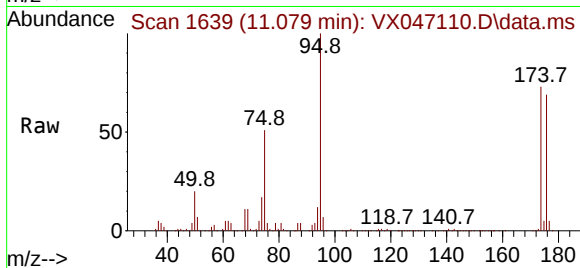
Tgt Ion: 95 Resp: 365051

Ion Ratio Lower Upper

95 100

174 72.2 0.0 144.6

176 69.3 0.0 139.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047110.D

Acq: 24 Jul 2025 11:42

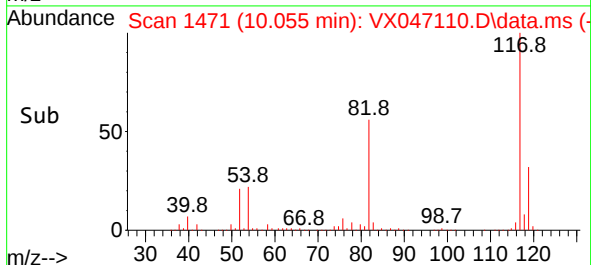
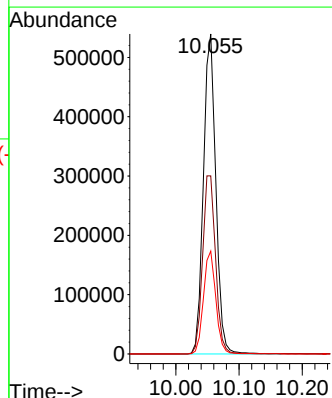
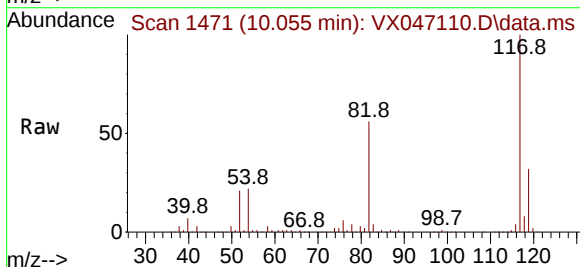
Tgt Ion: 117 Resp: 738162

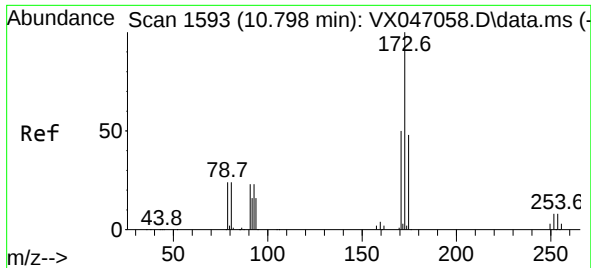
Ion Ratio Lower Upper

117 100

82 55.7 45.4 68.2

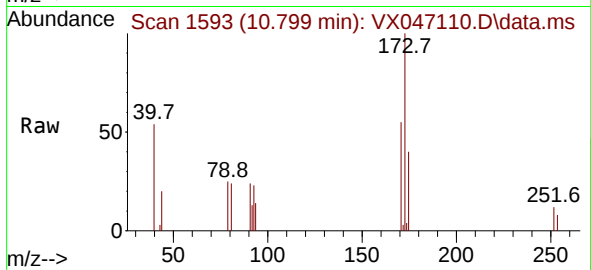
119 32.2 26.1 39.1



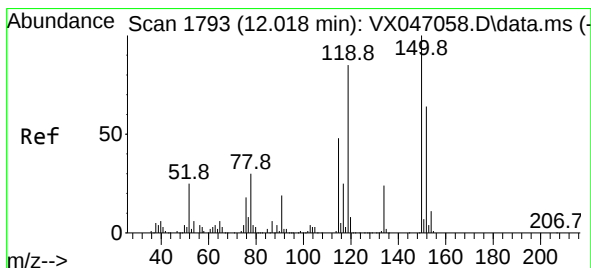
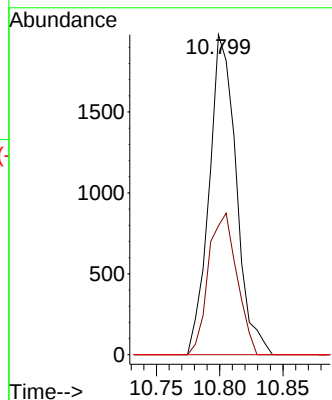
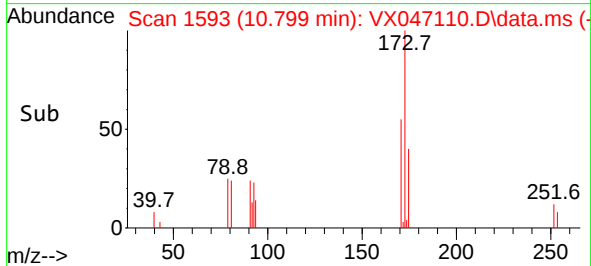


#71
Bromoform
Concen: 0.666 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.001 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Instrument :
MSVOA_X
ClientSampleId :

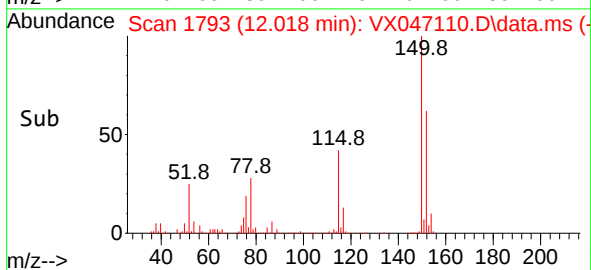
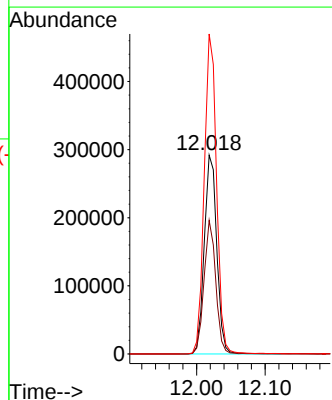
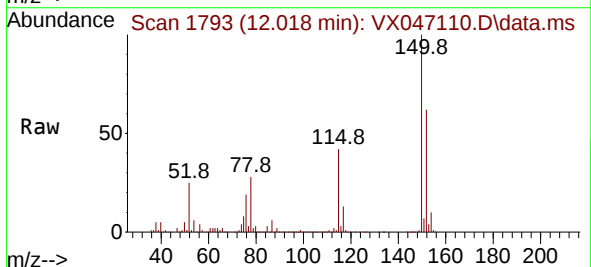


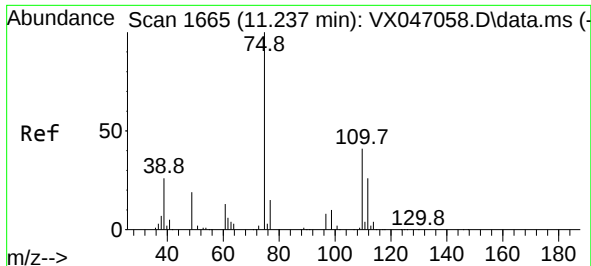
Tgt Ion:173 Resp: 2944
Ion Ratio Lower Upper
173 100
175 46.4 24.2 72.6
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.001 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Tgt Ion:152 Resp: 372346
Ion Ratio Lower Upper
152 100
115 63.1 45.6 136.7
150 158.3 0.0 354.6

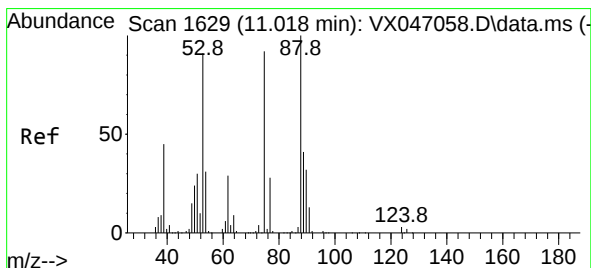
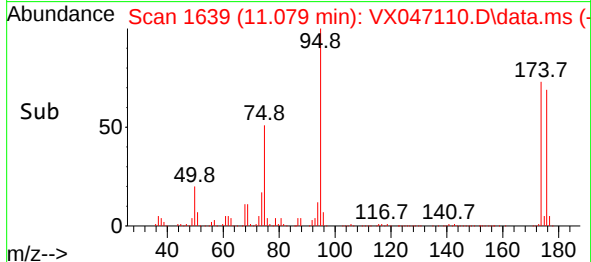
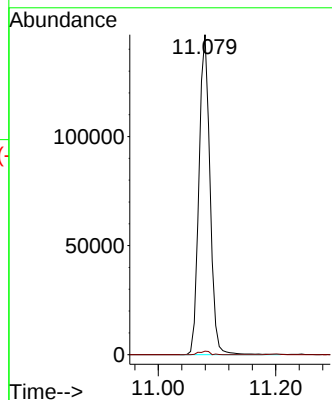
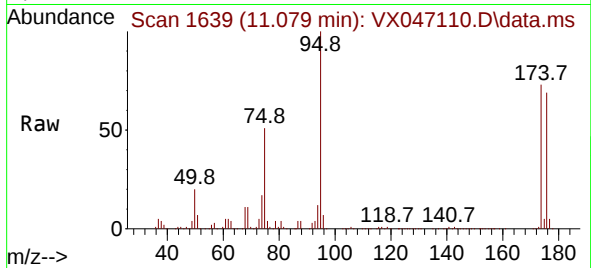




#76
1,2,3-Trichloropropane
Concen: 27.723 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

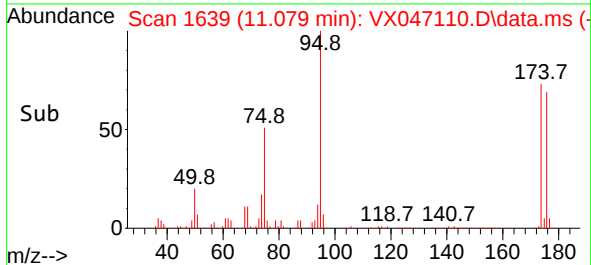
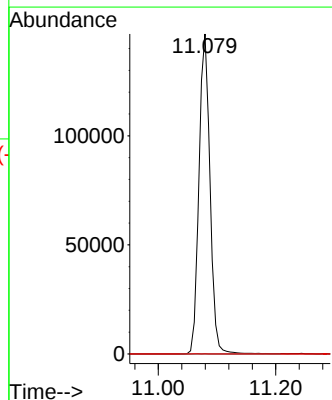
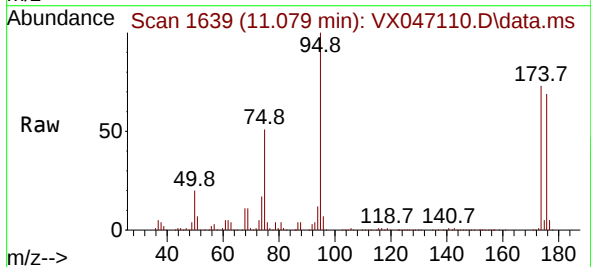
Instrument :
MSVOA_X
ClientSampleId :

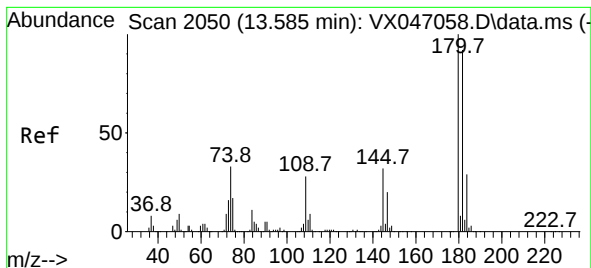
Tgt Ion: 75 Resp: 191062
Ion Ratio Lower Upper
75 100
77 1.1 21.6 65.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.424 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047110.D
Acq: 24 Jul 2025 11:42

Tgt Ion: 75 Resp: 191062
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#





#93

1,2,4-Trichlorobenzene

Concen: 0.220 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.007 min

Lab File: VX047110.D

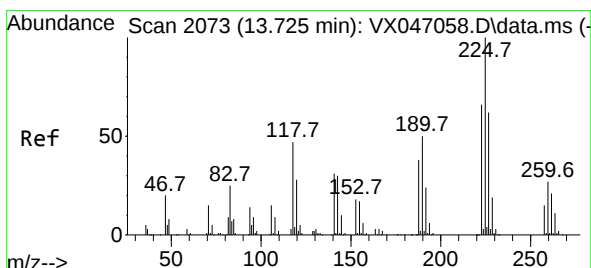
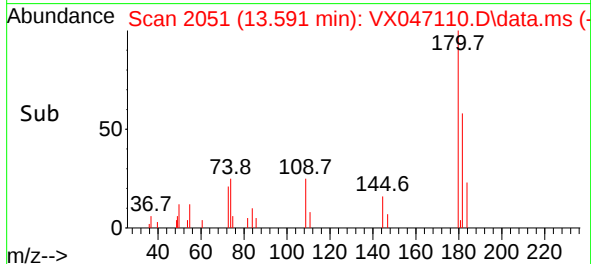
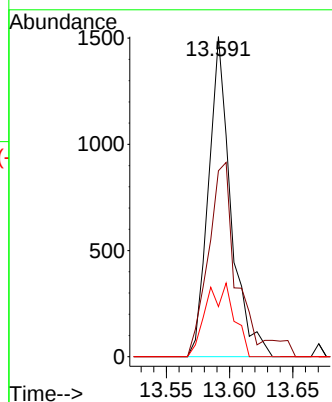
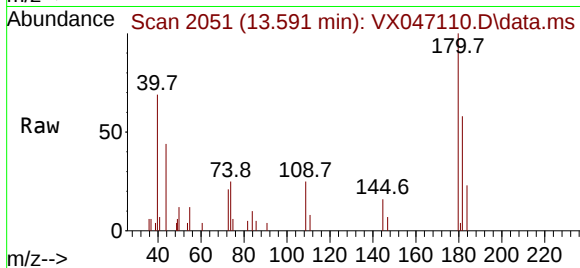
Acq: 24 Jul 2025 11:42

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:180	Resp:	1860
Ion Ratio	Lower	Upper
180	100	
182	74.5	47.3 141.8
145	28.8	16.4 49.1



#94

Hexachlorobutadiene

Concen: 0.603 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.001 min

Lab File: VX047110.D

Acq: 24 Jul 2025 11:42

Tgt Ion:225	Resp:	1733
Ion Ratio	Lower	Upper
225	100	
223	63.9	31.6 95.0
227	76.1	32.9 98.6

