

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
 Data File : VX047679.D
 Acq On : 19 Sep 2025 16:17
 Operator : JC/MD
 Sample : Q3097-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D2-20250911

Quant Time: Sep 20 00:34:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

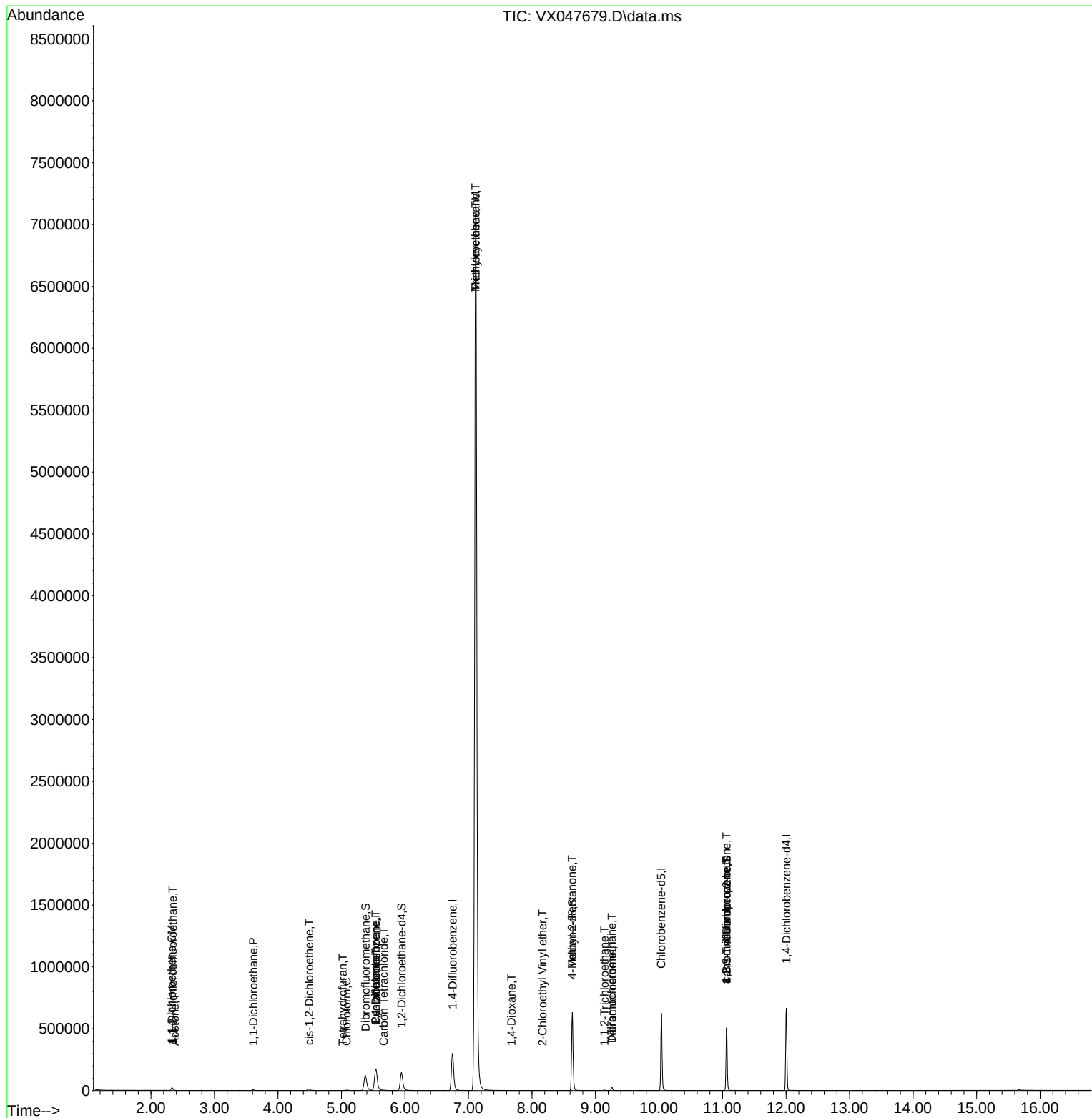
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	180253	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	329994	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	279542	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	137704	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	157402	54.860	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 109.720%	
35) Dibromofluoromethane	5.379	113	118552	53.568	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.140%	
50) Toluene-d8	8.635	98	382375	49.933	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 99.860%	
62) 4-Bromofluorobenzene	11.061	95	149571	51.465	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.920%	
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.343	101	4559	2.187	ug/l	98
12) 1,1-Dichloroethene	2.331	96	5262	2.457	ug/l	96
16) Acetone	2.374	43	1225	0.982	ug/l #	45
24) 1,1-Dichloroethane	3.611	63	7030	1.544	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	7496	2.655	ug/l	89
29) Tetrahydrofuran	5.019	42	326	0.348	ug/l #	34
30) Chloroform	5.080	83	4859	1.056	ug/l #	77
31) Cyclohexane	5.538	56	3677	0.970	ug/l #	9
36) 1,1-Dichloropropene	5.538	75	14885	4.603	ug/l #	51
38) Carbon Tetrachloride	5.666	117	2098	0.597	ug/l #	84
39) Methylcyclohexane	7.111	83	35207	9.591	ug/l #	1
44) Trichloroethene	7.111	130	3014300	1269.373	ug/l	96
49) 1,4-Dioxane	7.677	88	124	4.338	ug/l #	21
51) 4-Methyl-2-Pentanone	8.629	43	1860	0.591	ug/l #	1
55) 1,1,2-Trichloroethane	9.141	97	1286	0.551	ug/l	93
58) 2-Chloroethyl Vinyl ether	8.165	63	48	7.920	ug/l #	47
60) Dibromochloromethane	9.256	129	5053	1.879	ug/l #	11
64) Tetrachloroethene	9.263	164	4744	2.603	ug/l	91
76) 1,2,3-Trichloropropane	11.061	75	77700	27.869	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	77700	71.069	ug/l #	8

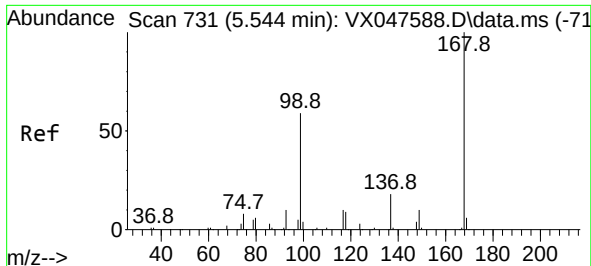
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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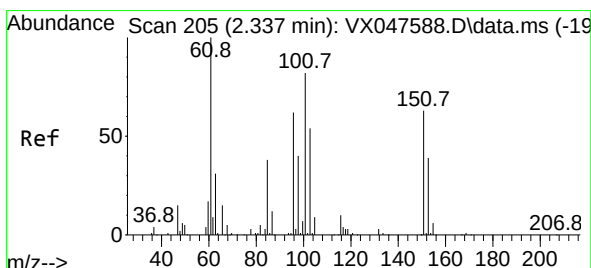
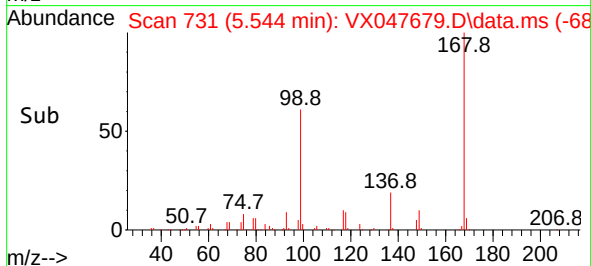
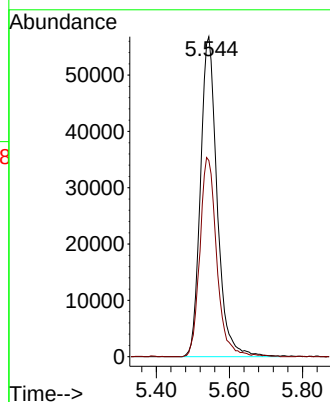
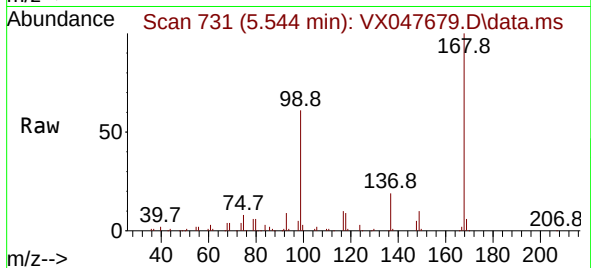




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

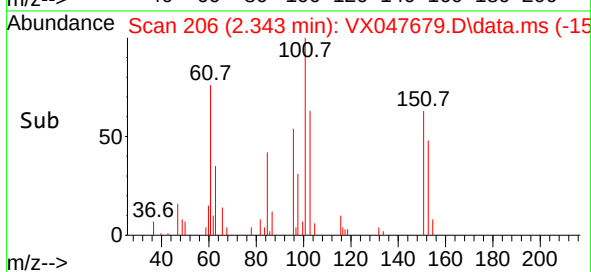
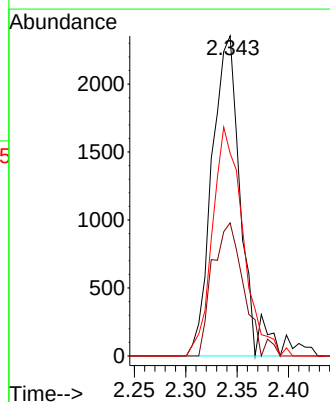
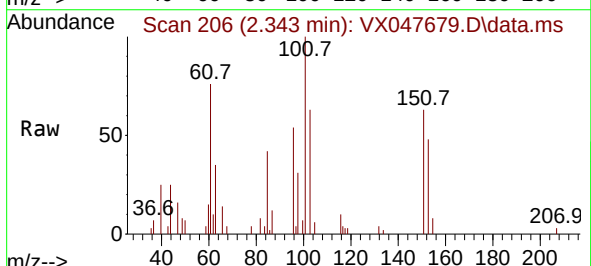
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

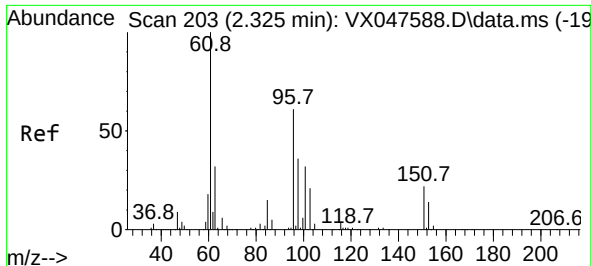
Tgt Ion:168 Resp: 180253
Ion Ratio Lower Upper
168 100
99 61.3 48.8 73.2



#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.187 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion:101 Resp: 4559
Ion Ratio Lower Upper
101 100
85 45.5 35.5 53.3
151 76.6 59.4 89.0

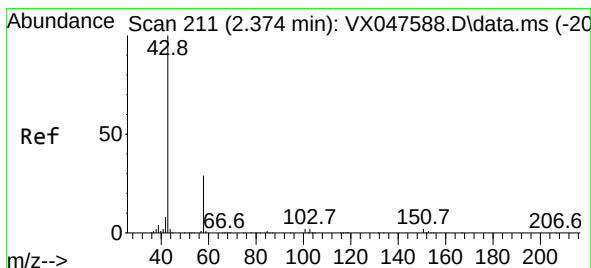
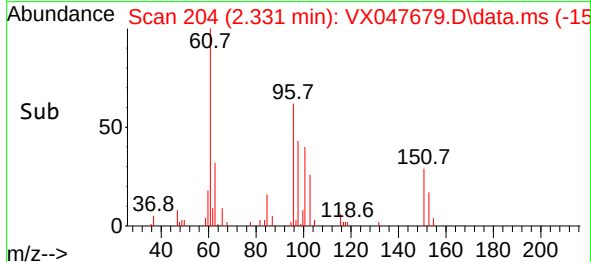
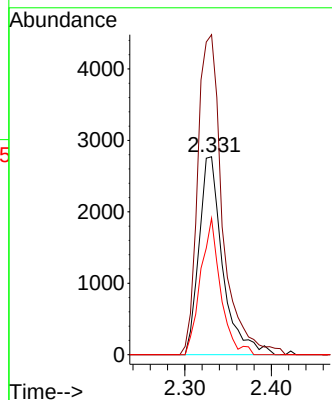
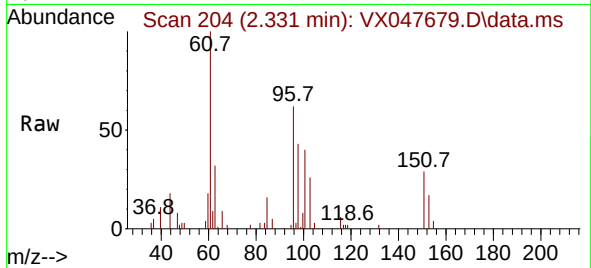




#12
1,1-Dichloroethene
Concen: 2.457 ug/l
RT: 2.331 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

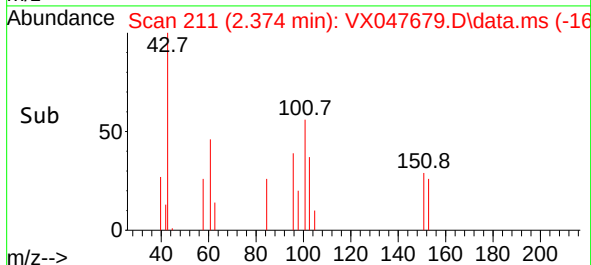
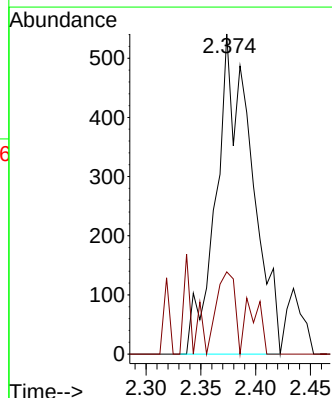
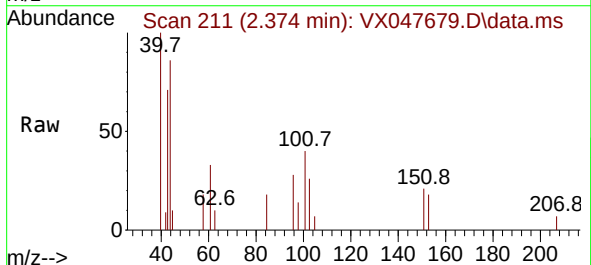
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

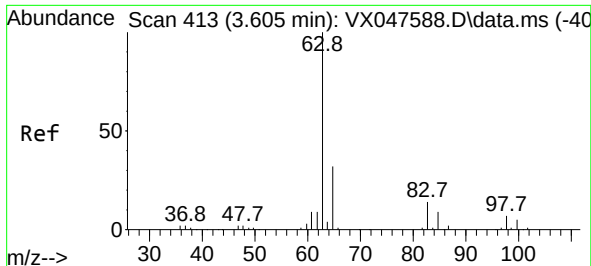
Tgt Ion: 96 Resp: 5262
Ion Ratio Lower Upper
96 100
61 161.7 131.0 196.6
98 68.9 47.7 71.5



#16
Acetone
Concen: 0.982 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 43 Resp: 1225
Ion Ratio Lower Upper
43 100
58 0.0 23.4 35.0#

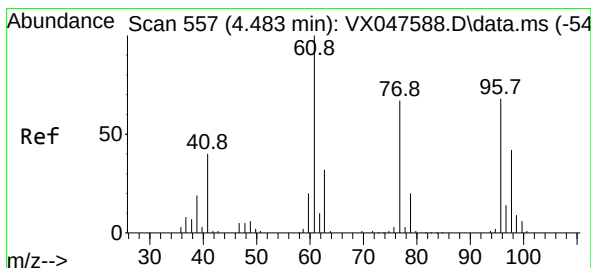
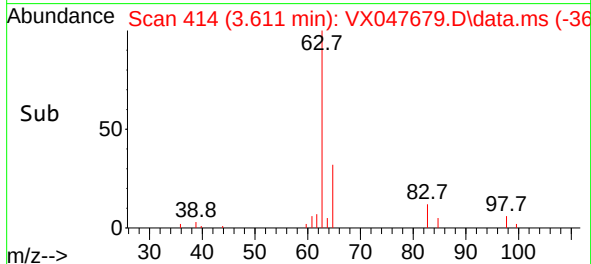
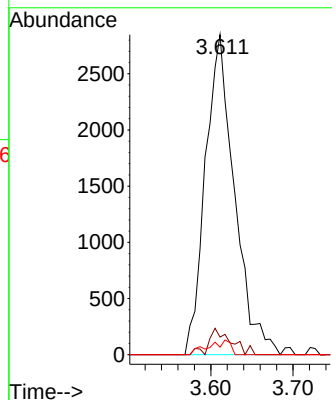
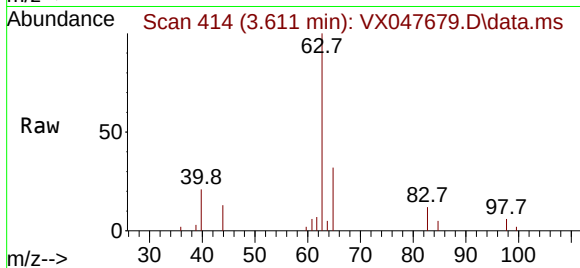




#24
1,1-Dichloroethane
Concen: 1.544 ug/l
RT: 3.611 min Scan# 41
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

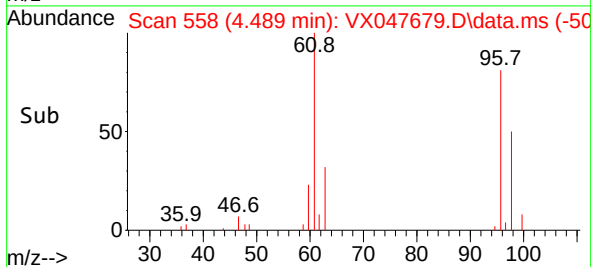
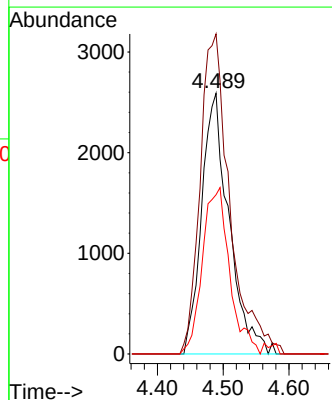
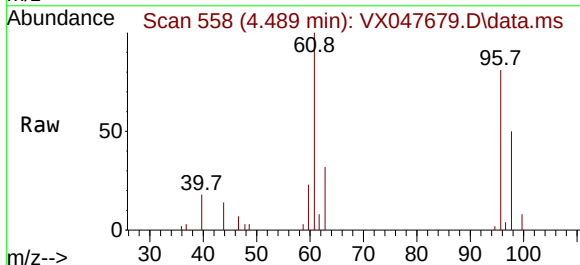
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

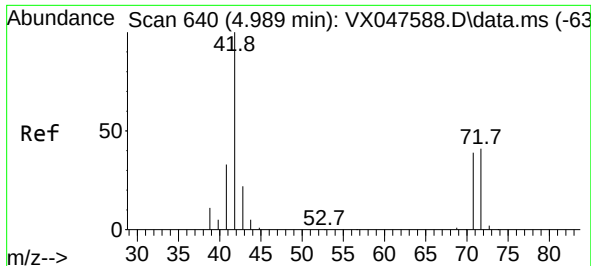
Tgt Ion: 63 Resp: 7030
Ion Ratio Lower Upper
63 100
98 5.5 3.8 11.2
100 2.4 2.3 6.9



#27
cis-1,2-Dichloroethene
Concen: 2.655 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 96 Resp: 7496
Ion Ratio Lower Upper
96 100
61 133.0 0.0 303.2
98 63.3 0.0 127.8

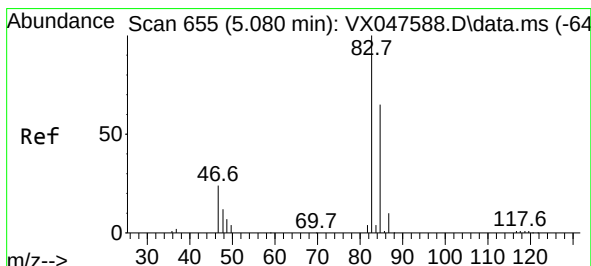
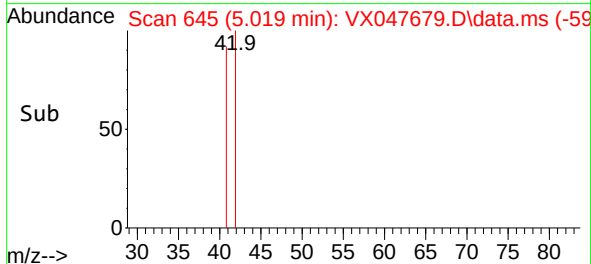
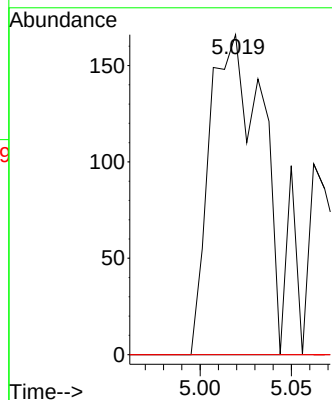
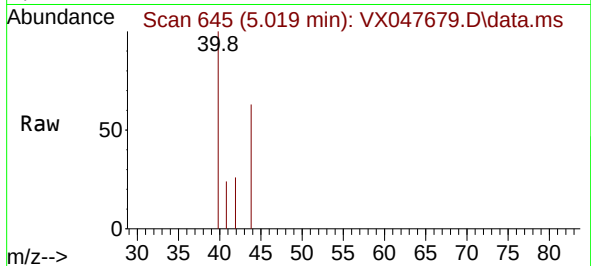




#29
Tetrahydrofuran
Concen: 0.348 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.030 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

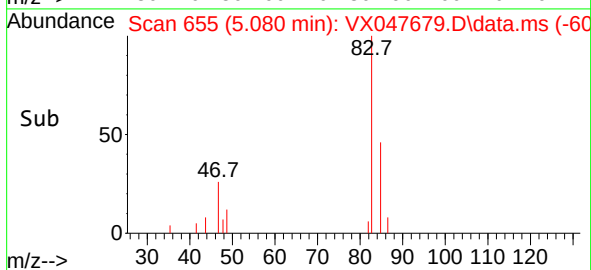
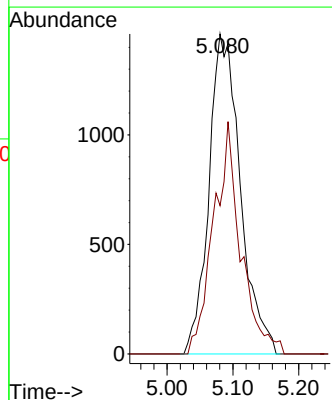
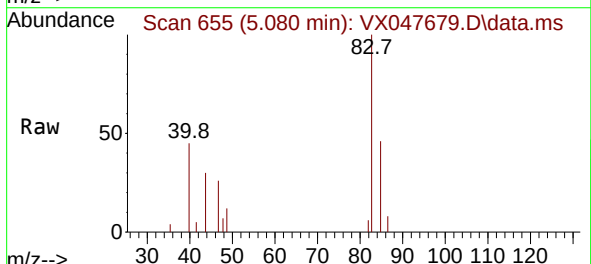
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

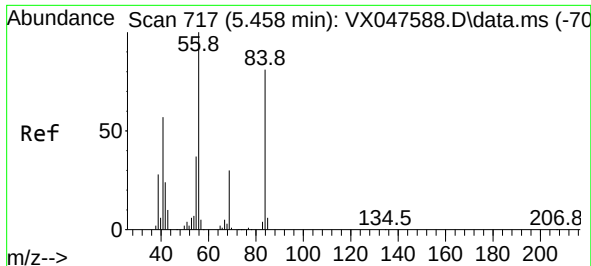
Tgt Ion: 42 Resp: 326
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 31.9 47.9#



#30
Chloroform
Concen: 1.056 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 83 Resp: 4859
Ion Ratio Lower Upper
83 100
85 46.3 51.8 77.6#

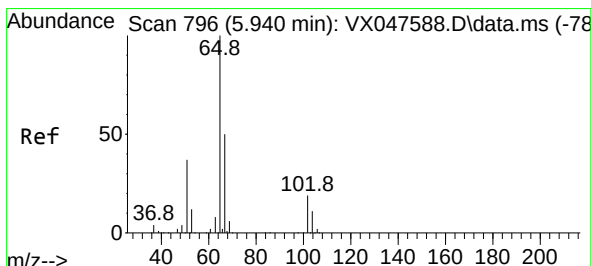
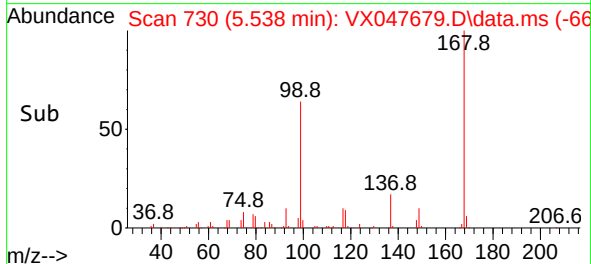
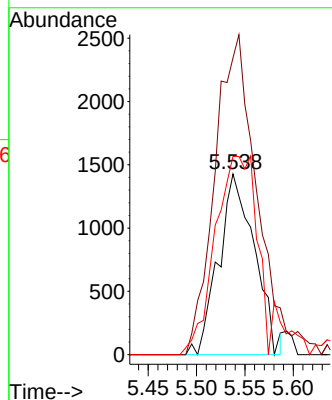
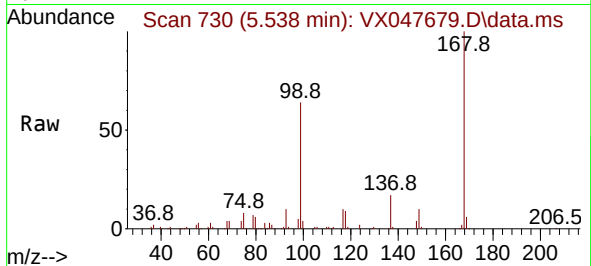




#31
Cyclohexane
Concen: 0.970 ug/l
RT: 5.538 min Scan# 717
Delta R.T. 0.079 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

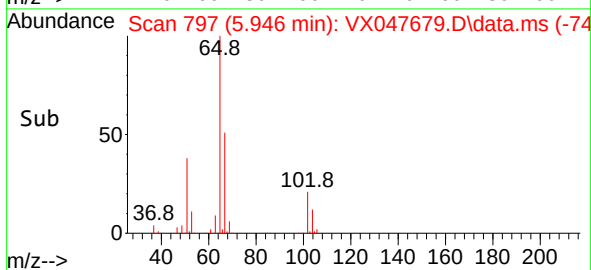
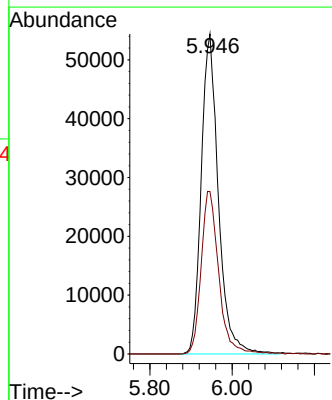
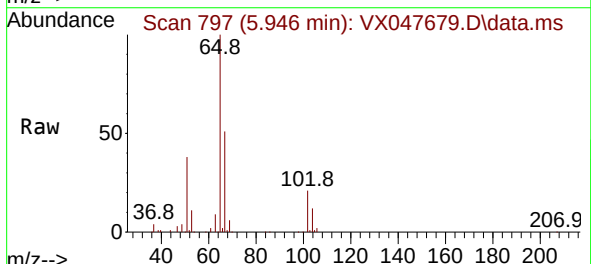
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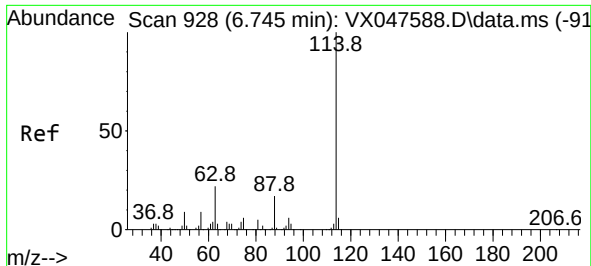
Tgt Ion: 56 Resp: 3677
Ion Ratio Lower Upper
56 100
69 164.3 23.8 35.8#
84 109.7 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 54.860 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 65 Resp: 157402
Ion Ratio Lower Upper
65 100
67 52.1 0.0 103.0

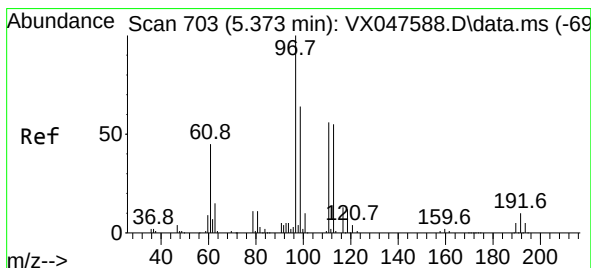
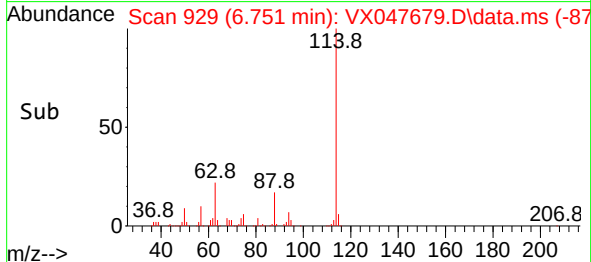
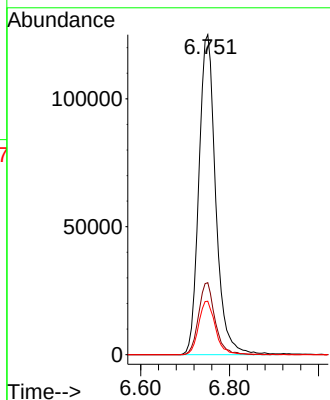
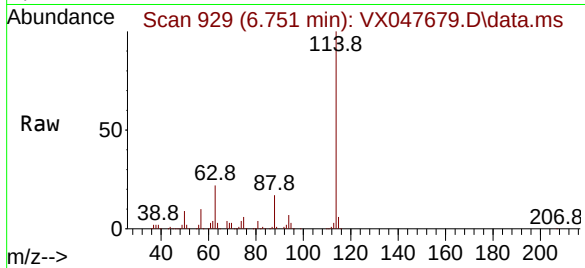




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

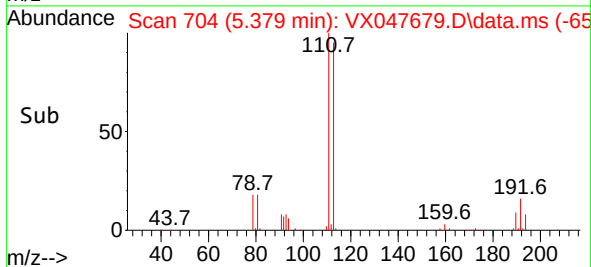
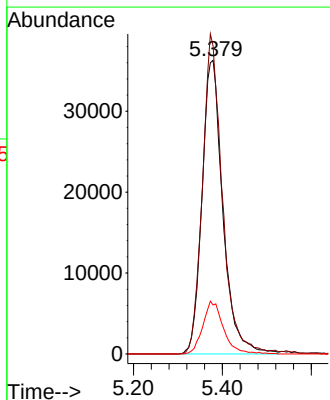
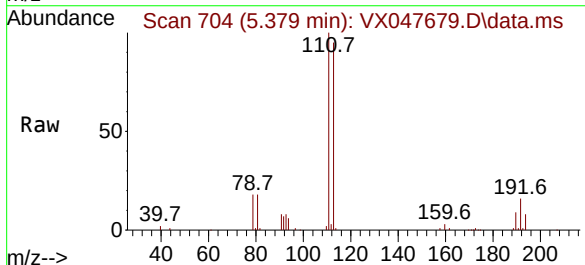
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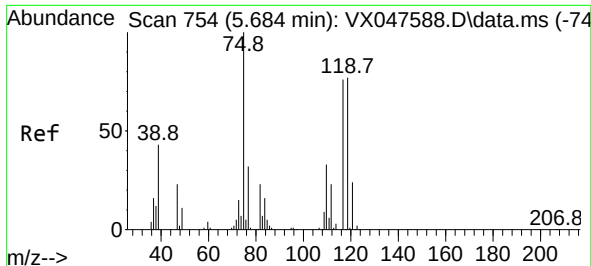
Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.7	0.0	34.2



#35
Dibromofluoromethane
Concen: 53.568 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	80.9	121.3
192	17.9	14.2	21.4





#36

1,1-Dichloropropene

Concen: 4.603 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX047679.D

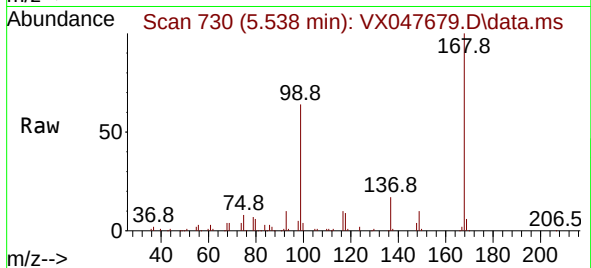
Acq: 19 Sep 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20250911



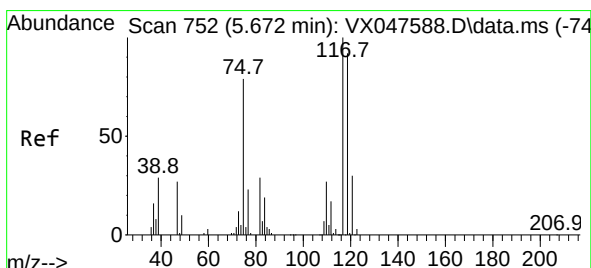
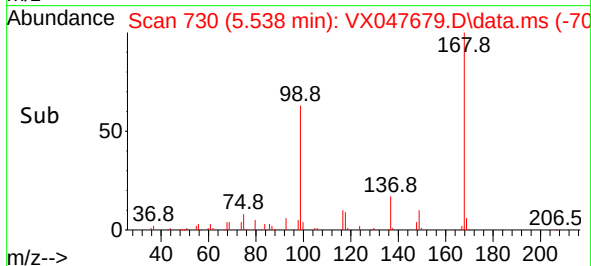
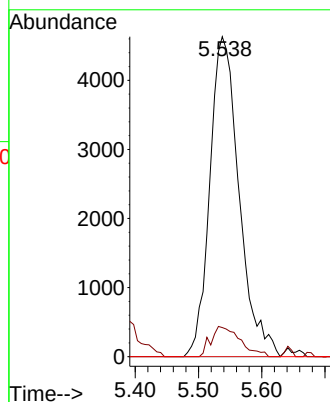
Tgt Ion: 75 Resp: 14885

Ion Ratio Lower Upper

75 100

110 9.5 16.7 50.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 0.597 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX047679.D

Acq: 19 Sep 2025 16:17

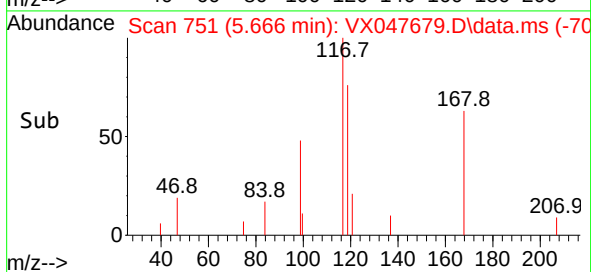
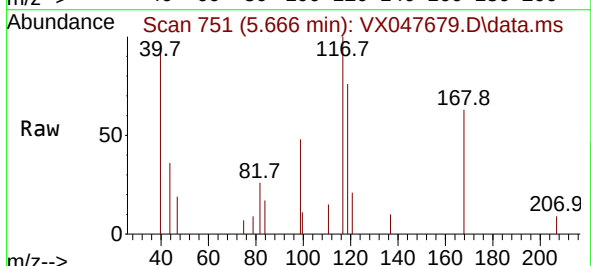
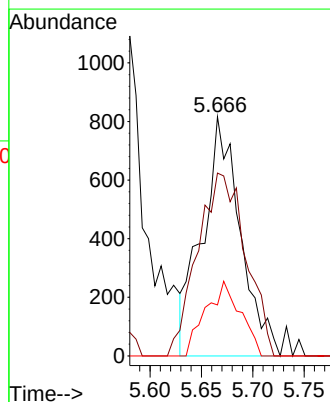
Tgt Ion: 117 Resp: 2098

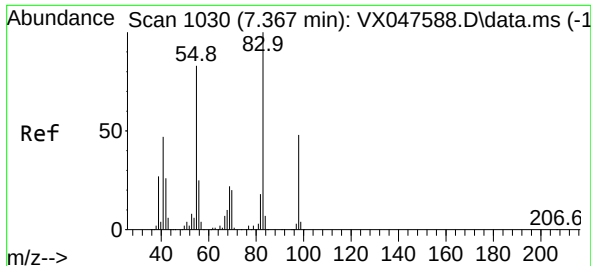
Ion Ratio Lower Upper

117 100

119 76.5 73.4 110.2

121 21.3 23.8 35.6#





#39

Methylcyclohexane

Concen: 9.591 ug/l

RT: 7.111 min Scan# 988

Delta R.T. -0.256 min

Lab File: VX047679.D

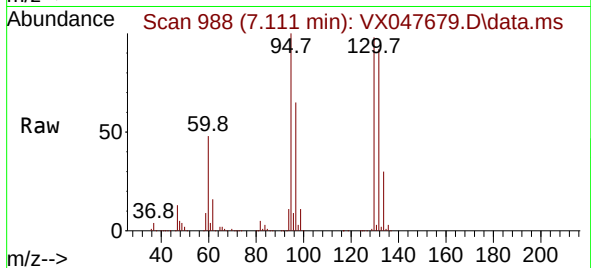
Acq: 19 Sep 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20250911



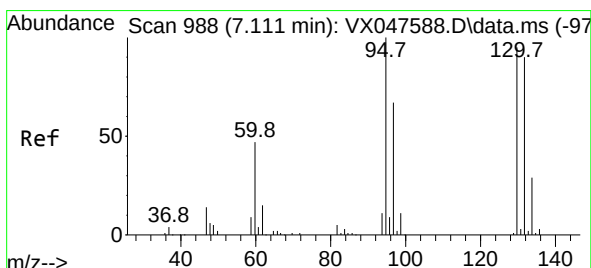
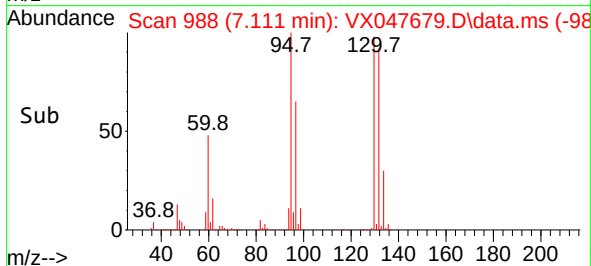
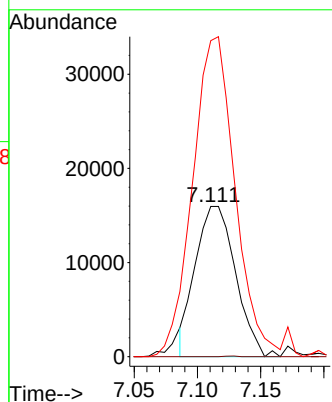
Tgt Ion: 83 Resp: 35207

Ion Ratio Lower Upper

83 100

55 0.0 66.4 99.6#

98 295.8 38.1 57.1#



#44

Trichloroethene

Concen: 1269.373 ug/l

RT: 7.111 min Scan# 988

Delta R.T. -0.000 min

Lab File: VX047679.D

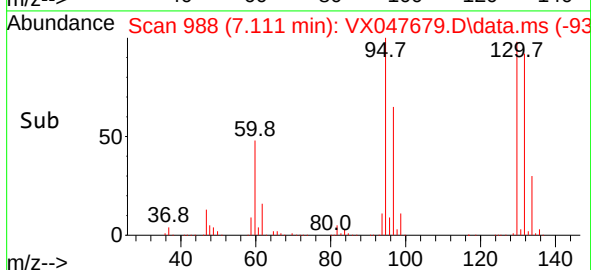
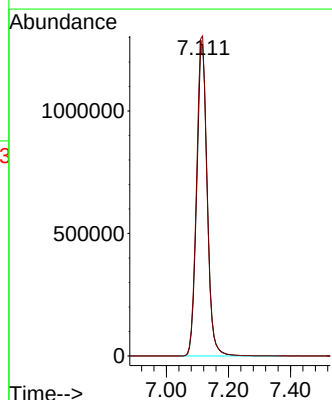
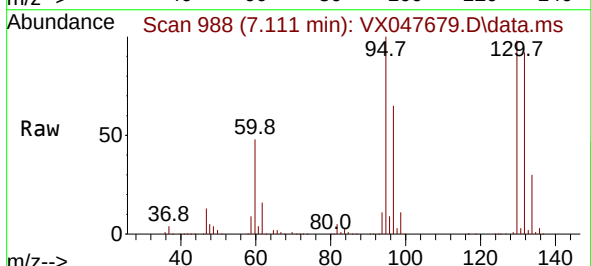
Acq: 19 Sep 2025 16:17

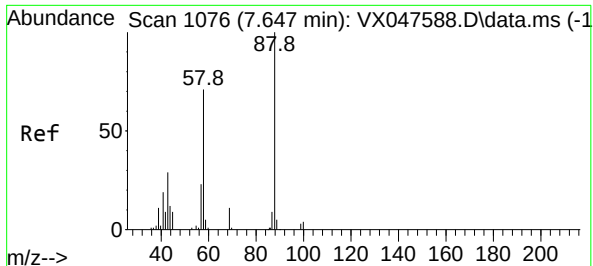
Tgt Ion:130 Resp: 3014300

Ion Ratio Lower Upper

130 100

95 101.6 0.0 210.8





#49

1,4-Dioxane

Concen: 4.338 ug/l

RT: 7.677 min Scan# 1081

Delta R.T. 0.030 min

Lab File: VX047679.D

Acq: 19 Sep 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20250911

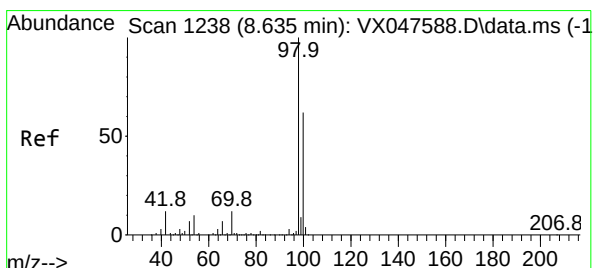
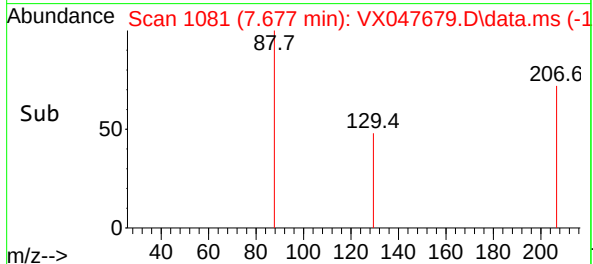
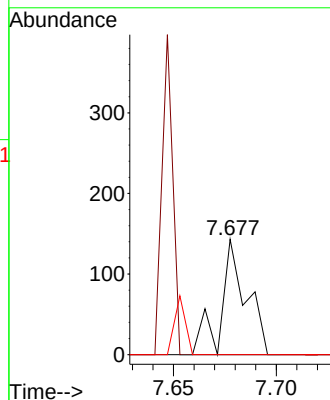
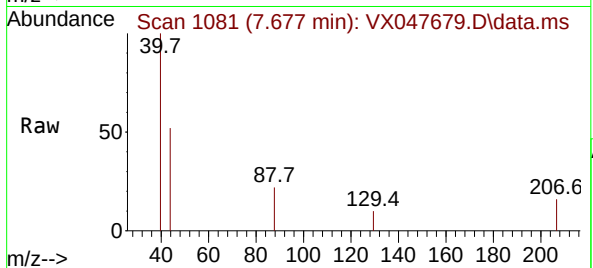
Tgt Ion: 88 Resp: 124

Ion Ratio Lower Upper

88 100

43 0.0 30.2 45.2#

58 0.0 59.5 89.3#



#50

Toluene-d8

Concen: 49.933 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX047679.D

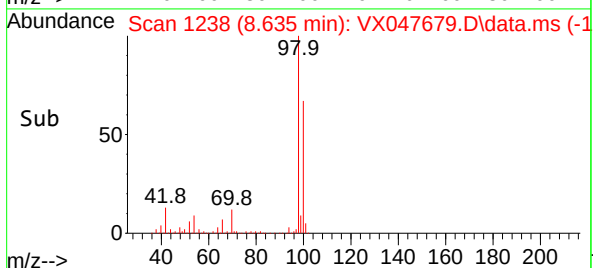
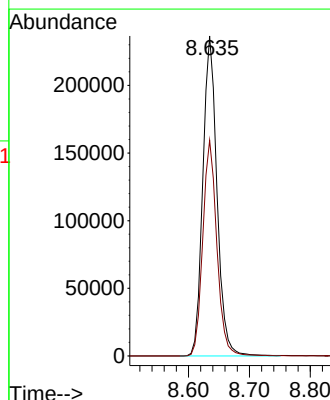
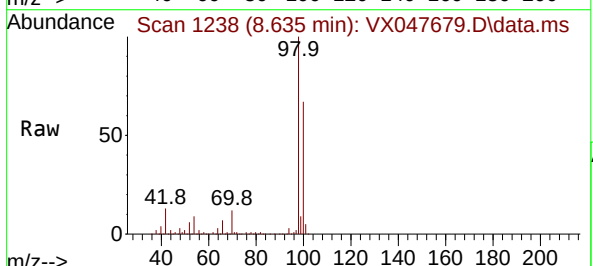
Acq: 19 Sep 2025 16:17

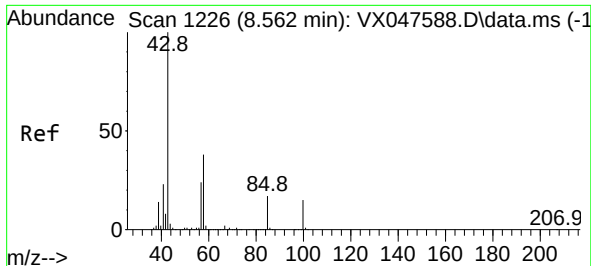
Tgt Ion: 98 Resp: 382375

Ion Ratio Lower Upper

98 100

100 67.0 53.0 79.4

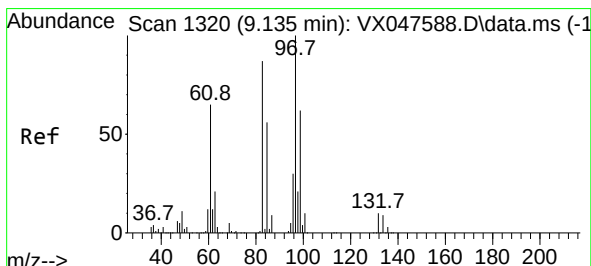
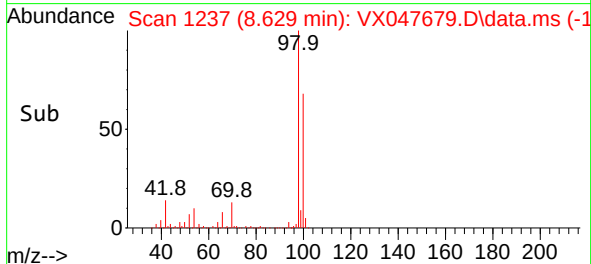
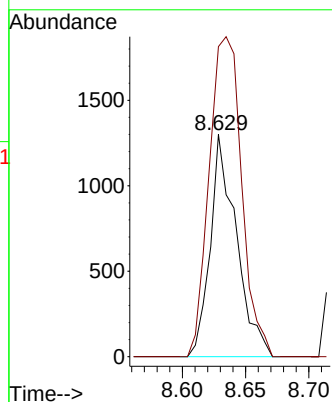
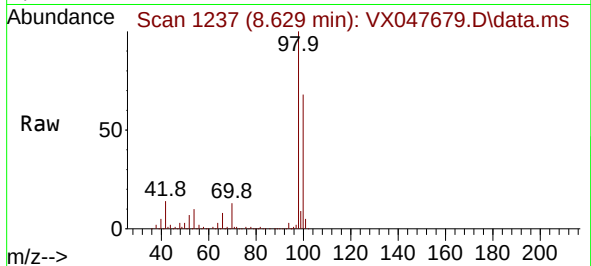




#51
4-Methyl-2-Pentanone
Concen: 0.591 ug/l
RT: 8.629 min Scan# 11
Delta R.T. 0.067 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

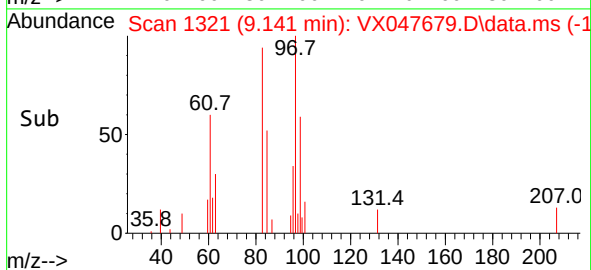
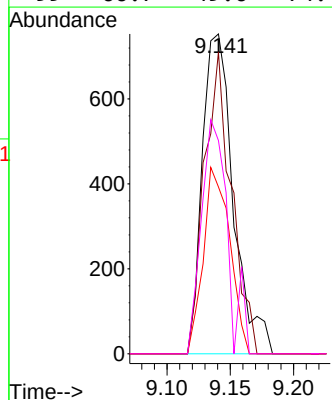
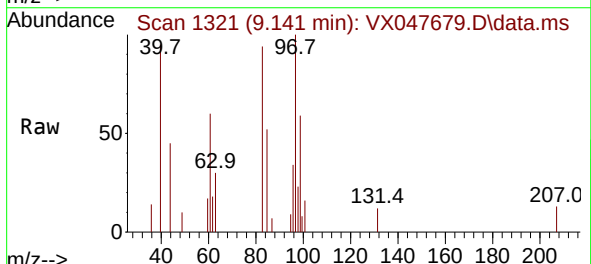
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

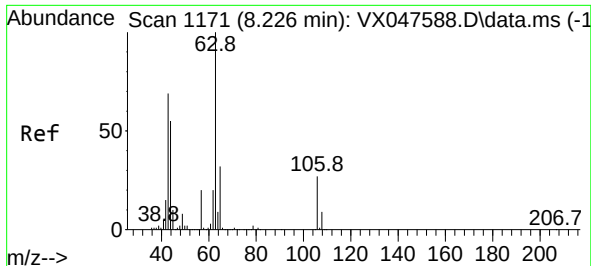
Tgt Ion: 43 Resp: 1860
Ion Ratio Lower Upper
43 100
58 180.1 30.3 45.5#



#55
1,1,2-Trichloroethane
Concen: 0.551 ug/l
RT: 9.141 min Scan# 1321
Delta R.T. 0.006 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 97 Resp: 1286
Ion Ratio Lower Upper
97 100
83 94.4 69.6 104.4
85 52.2 45.0 67.6
99 66.7 49.6 74.4

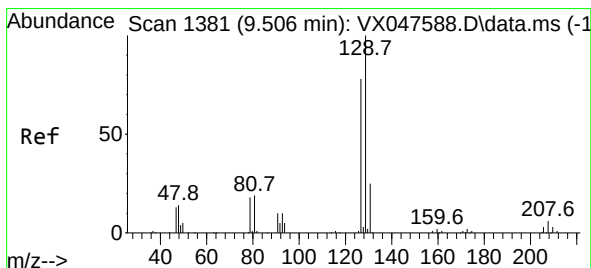
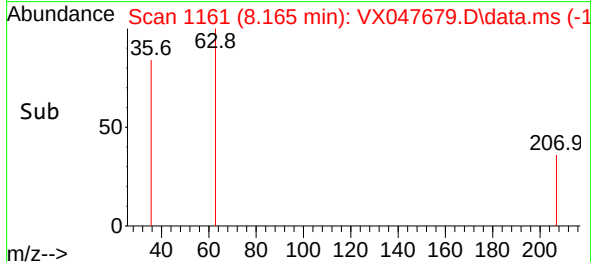
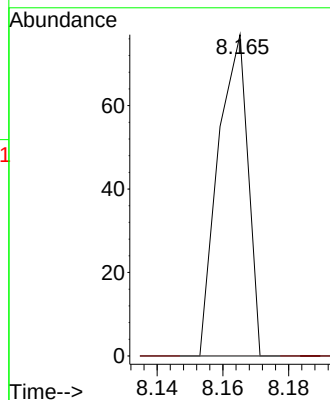
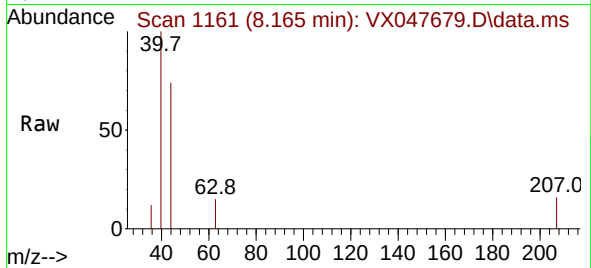




#58
2-Chloroethyl Vinyl ether
Concen: 7.920 ug/l
RT: 8.165 min Scan# 1171
Delta R.T. -0.061 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

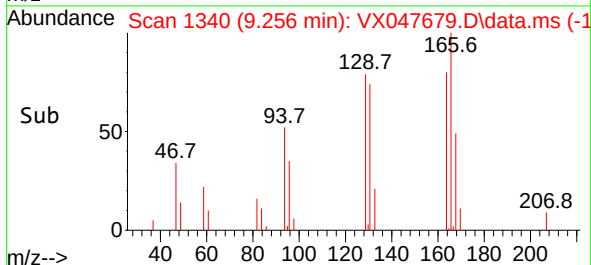
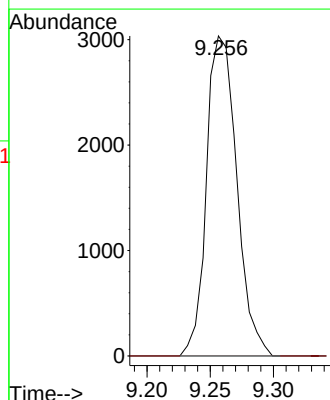
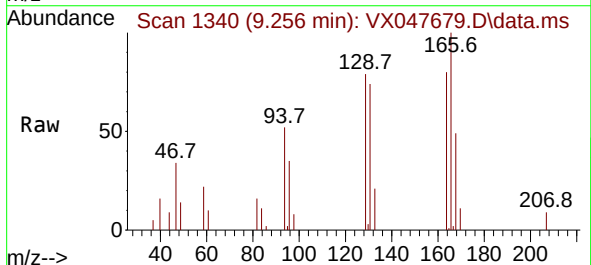
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

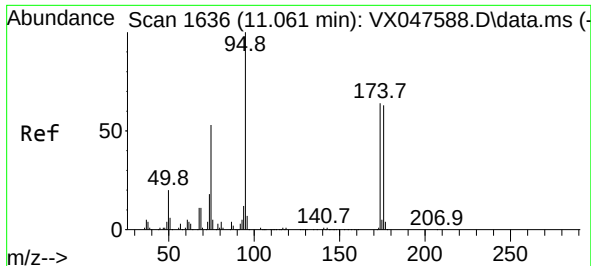
Tgt Ion: 63 Resp: 48
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#



#60
Dibromochloromethane
Concen: 1.879 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.250 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion:129 Resp: 5053
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#

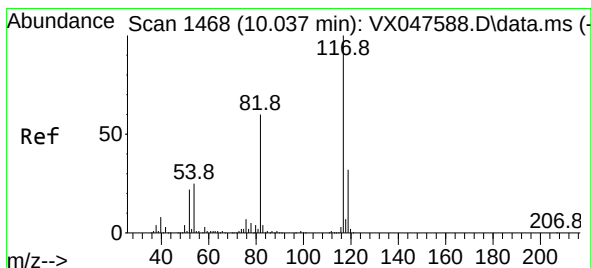
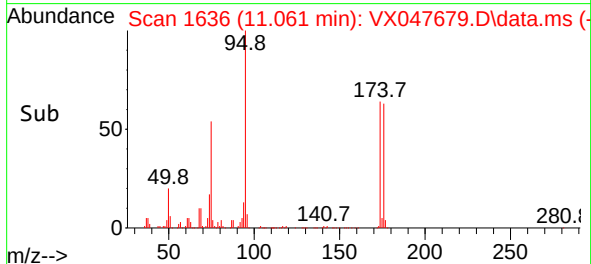
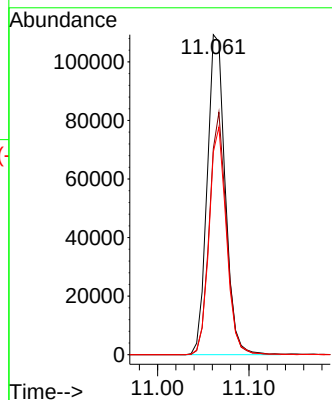
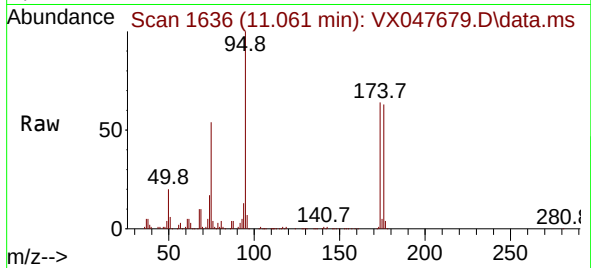




#62
4-Bromofluorobenzene
Concen: 51.465 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

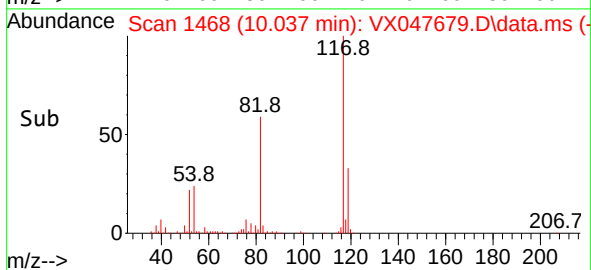
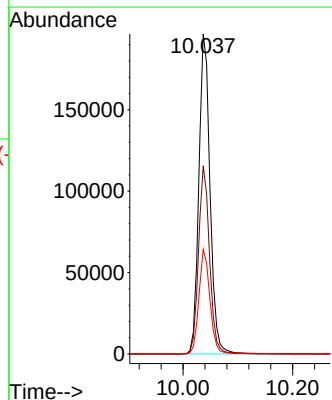
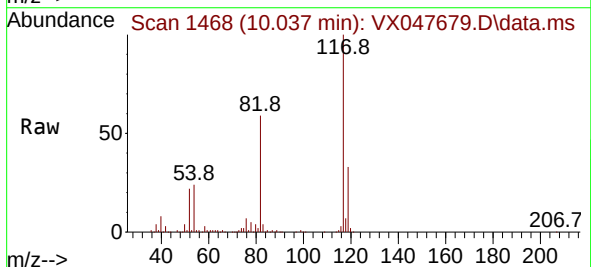
Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

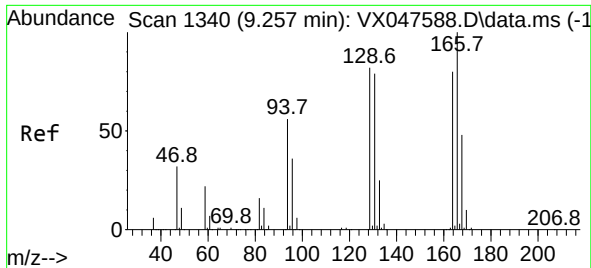
Tgt Ion: 95 Resp: 149571
Ion Ratio Lower Upper
95 100
174 71.7 0.0 141.6
176 68.2 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 117 Resp: 279542
Ion Ratio Lower Upper
117 100
82 58.8 47.8 71.6
119 32.7 25.2 37.8





#64

Tetrachloroethene

Concen: 2.603 ug/l

RT: 9.263 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047679.D

Acq: 19 Sep 2025 16:17

Instrument :

MSVOA_X

ClientSampleId :

RE108D2-20250911

Tgt Ion:164 Resp: 4744

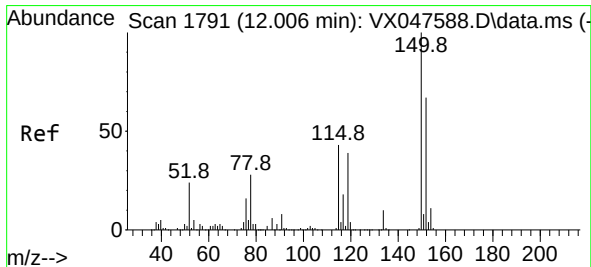
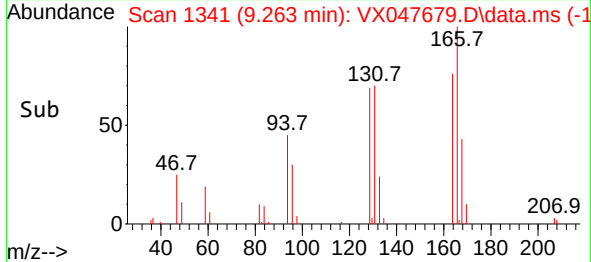
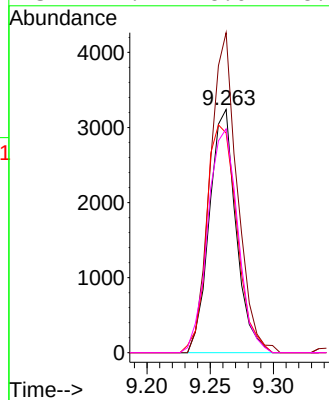
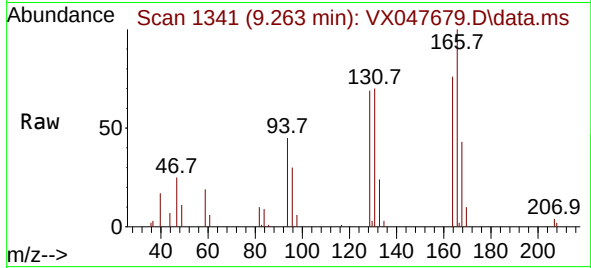
Ion Ratio Lower Upper

164 100

166 134.2 100.2 150.2

129 90.3 81.8 122.6

131 92.1 78.6 118.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX047679.D

Acq: 19 Sep 2025 16:17

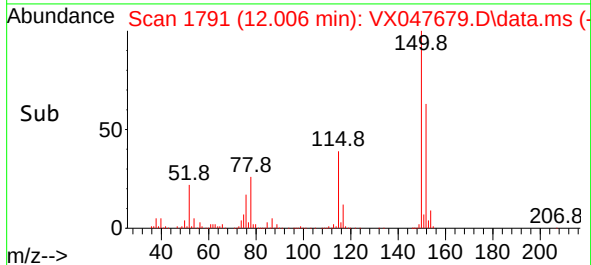
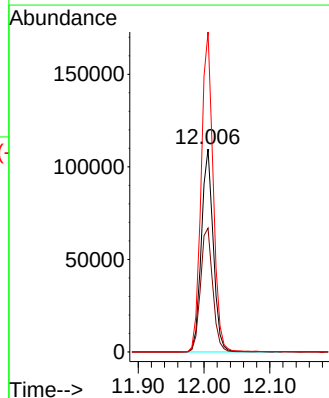
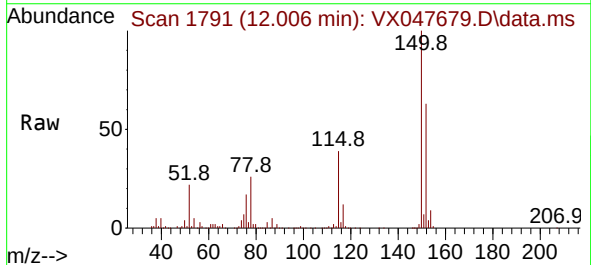
Tgt Ion:152 Resp: 137704

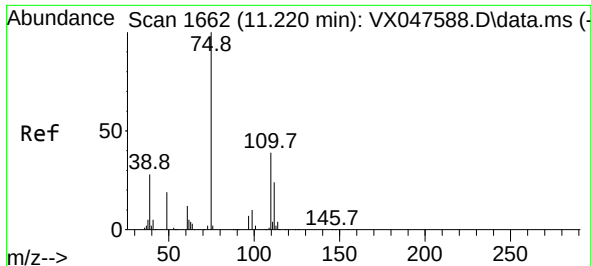
Ion Ratio Lower Upper

152 100

115 62.7 44.9 134.5

150 158.8 0.0 352.0

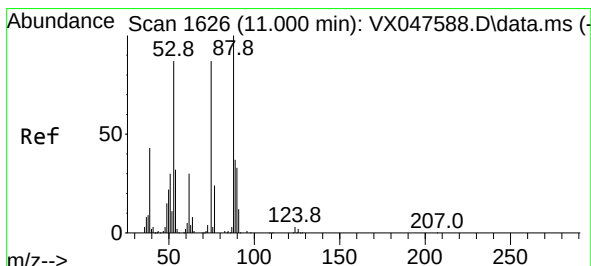
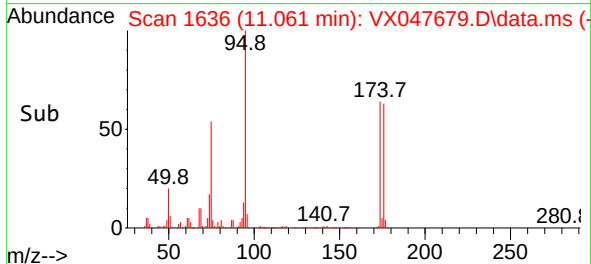
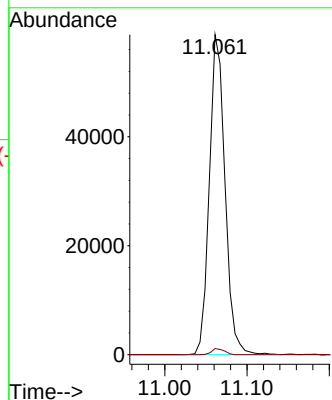
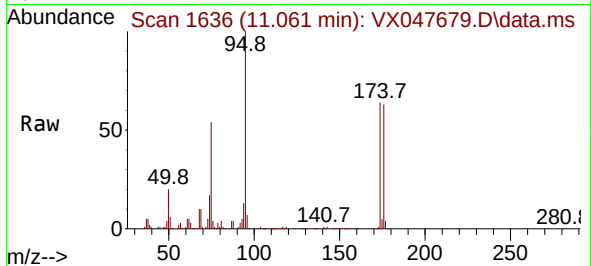




#76
1,2,3-Trichloropropane
Concen: 27.869 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Instrument :
MSVOA_X
ClientSampleId :
RE108D2-20250911

Tgt Ion: 75 Resp: 77700
Ion Ratio Lower Upper
75 100
77 1.6 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.069 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047679.D
Acq: 19 Sep 2025 16:17

Tgt Ion: 75 Resp: 77700
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#

