

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
 Data File : VX048158.D
 Acq On : 14 Oct 2025 12:28
 Operator : JC/MD
 Sample : Q3311-13DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 15 02:42:23 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	103382	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	217778	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	217224	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	99280	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	83870	50.967	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 101.940%	
35) Dibromofluoromethane	5.379	113	69385	47.506	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 95.020%	
50) Toluene-d8	8.635	98	237059	46.908	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 93.820%	
62) 4-Bromofluorobenzene	11.061	95	98145	51.171	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.340%	

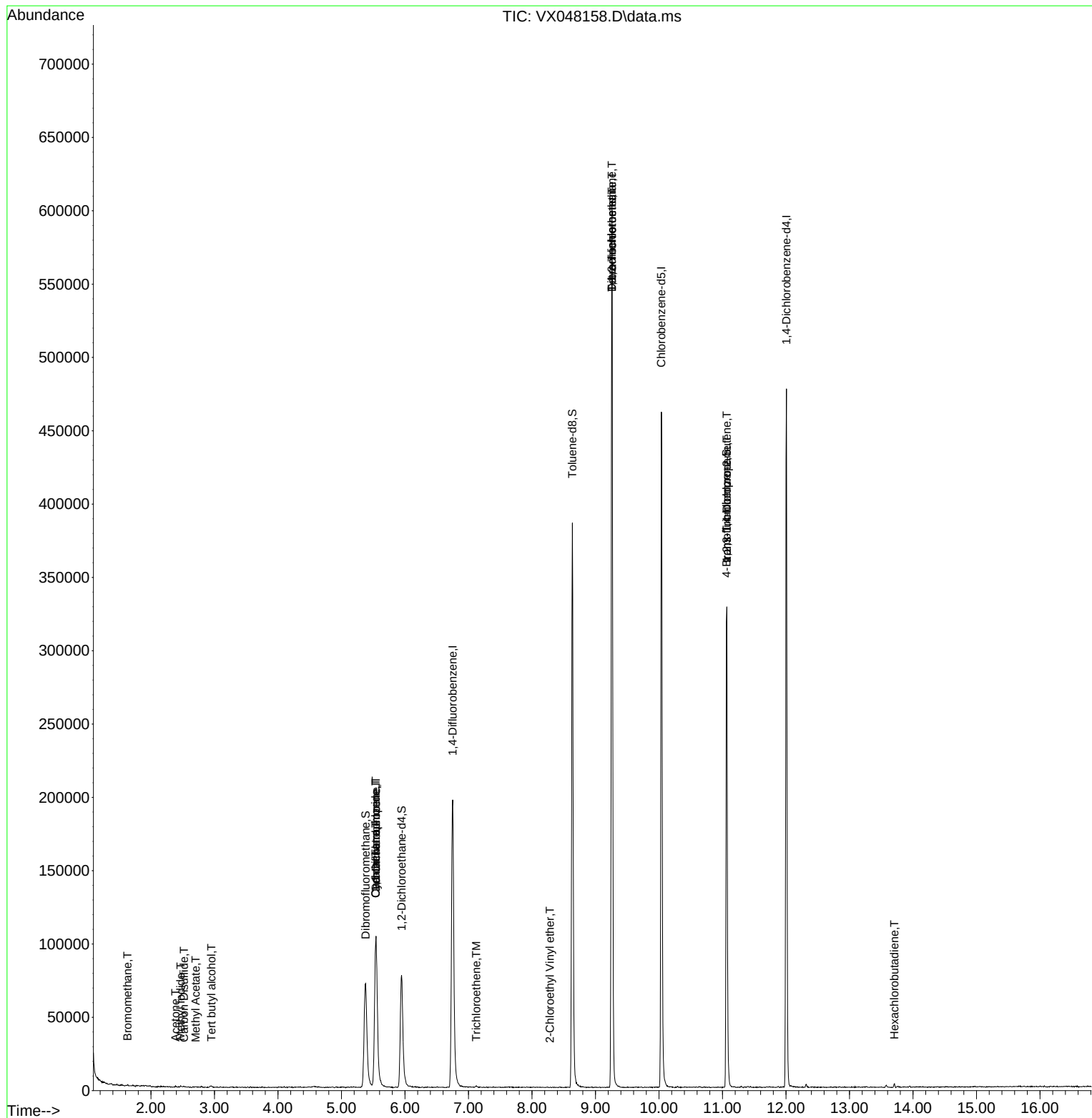
Target Compounds			Qvalue			
5) Bromomethane	1.630	94	224	0.256	ug/l #	69
10) Methyl Iodide	2.465	142	1006	0.539	ug/l #	85
11) Tert butyl alcohol	2.953	59	524	2.859	ug/l #	72
16) Acetone	2.386	43	409	0.572	ug/l #	57
17) Carbon Disulfide	2.520	76	717	0.213	ug/l #	76
18) Methyl Acetate	2.703	43	455	0.286	ug/l #	54
31) Cyclohexane	5.538	56	2575	1.184	ug/l #	14
36) 1,1-Dichloropropene	5.544	75	9105	4.266	ug/l #	43
38) Carbon Tetrachloride	5.538	117	10913	4.706	ug/l #	19
44) Trichloroethene	7.123	130	433	0.276	ug/l	85
55) 1,1,2-Trichloroethane	9.257	97	1033	0.671	ug/l #	3
58) 2-Chloroethyl Vinyl ether	8.281	63	19	7.909	ug/l #	47
60) Dibromochloromethane	9.257	129	113979	64.238	ug/l #	11
64) Tetrachloroethene	9.257	164	113711	80.300	ug/l	98
76) 1,2,3-Trichloropropane	11.067	75	50799	25.272	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.067	75	50799	64.447	ug/l #	8
94) Hexachlorobutadiene	13.707	225	421	0.580	ug/l	87

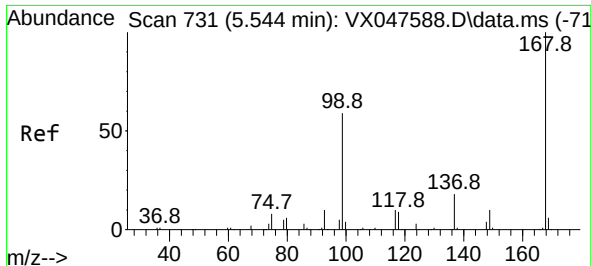
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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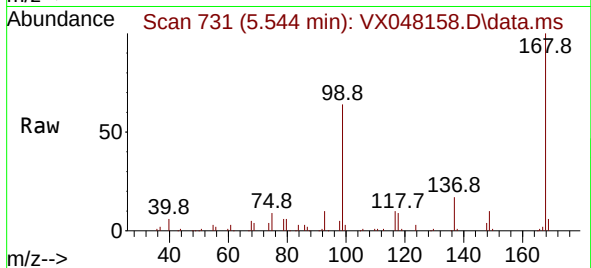
Quant Time: Oct 15 02:42:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
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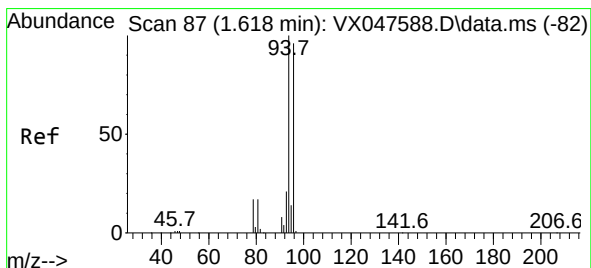
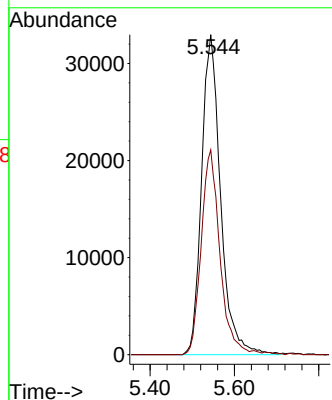
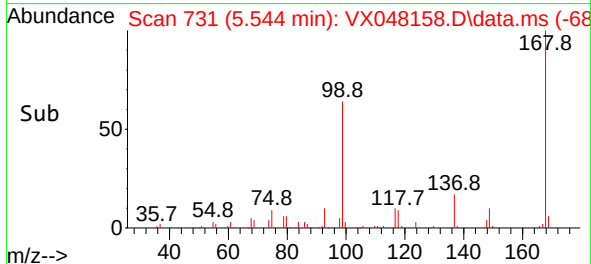


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :

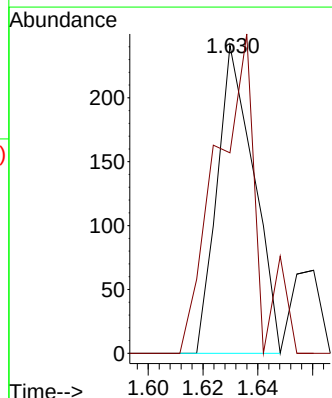
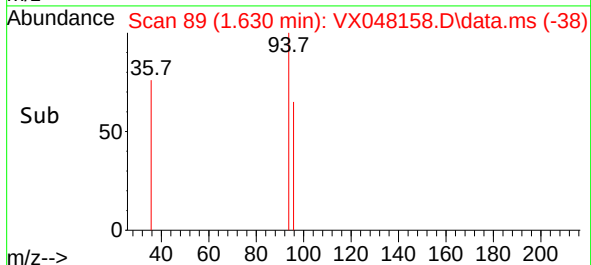
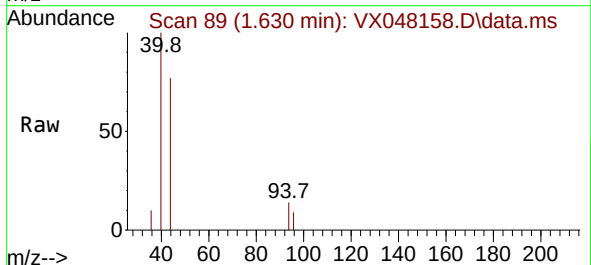


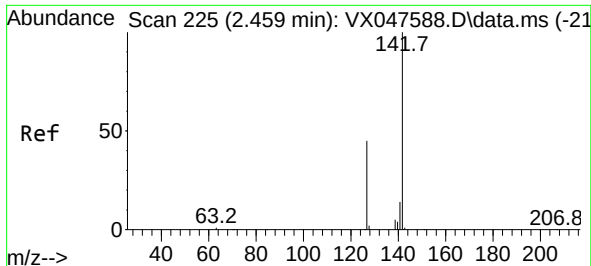
Tgt Ion:168 Resp: 103382
Ion Ratio Lower Upper
168 100
99 64.0 48.8 73.2



#5
Bromomethane
Concen: 0.256 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Tgt Ion: 94 Resp: 224
Ion Ratio Lower Upper
94 100
96 65.1 76.6 115.0#





#10

Methyl Iodide

Concen: 0.539 ug/l

RT: 2.465 min Scan# 21

Delta R.T. 0.006 min

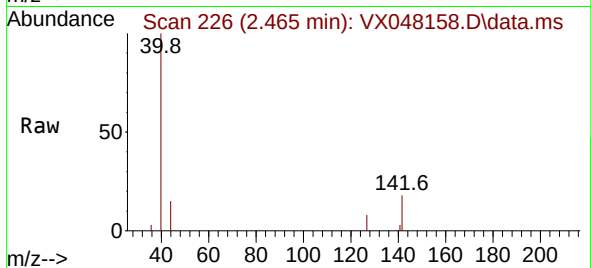
Lab File: VX048158.D

Acq: 14 Oct 2025 12:28

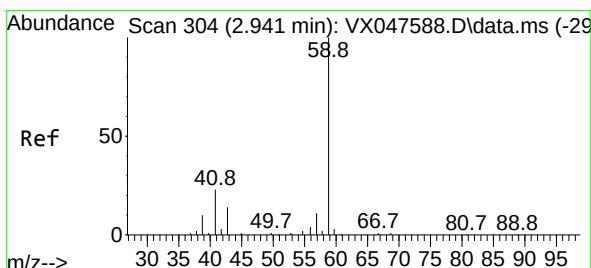
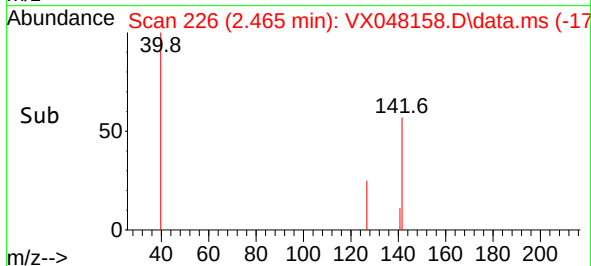
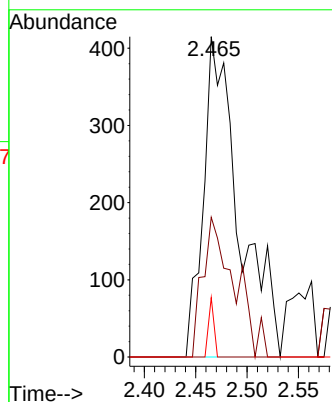
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	142	Resp:	1006
Ion	Ratio	Lower	Upper
142	100		
127	38.9	37.2	55.8
141	2.8	11.4	17.0#



#11

Tert butyl alcohol

Concen: 2.859 ug/l

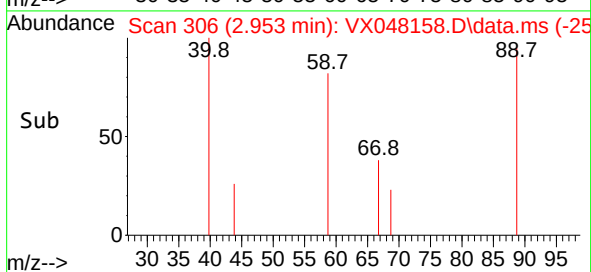
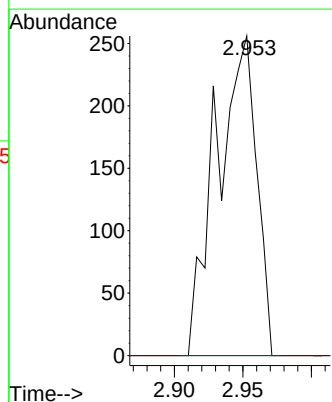
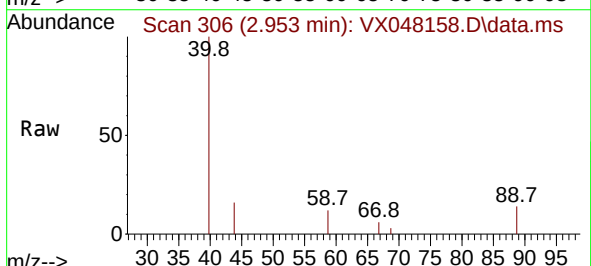
RT: 2.953 min Scan# 306

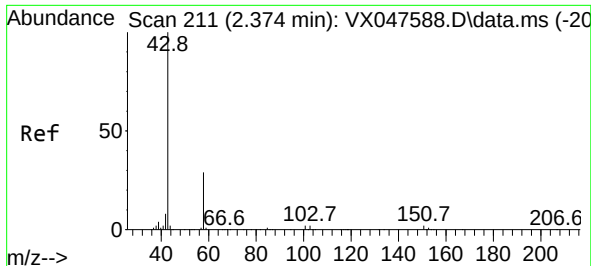
Delta R.T. 0.012 min

Lab File: VX048158.D

Acq: 14 Oct 2025 12:28

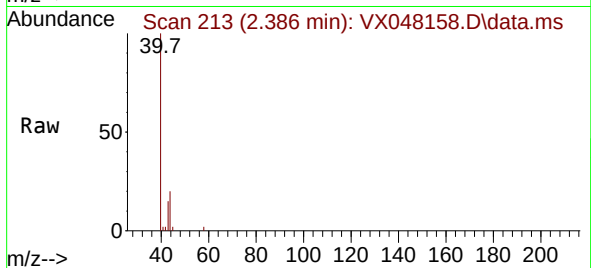
Tgt Ion:	59	Resp:	524
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#



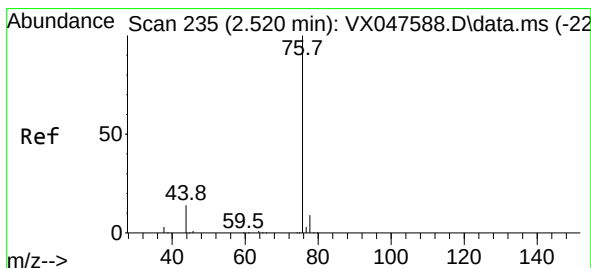
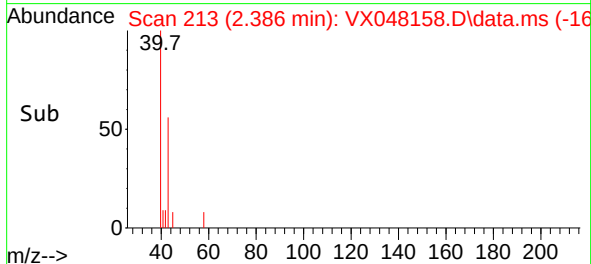
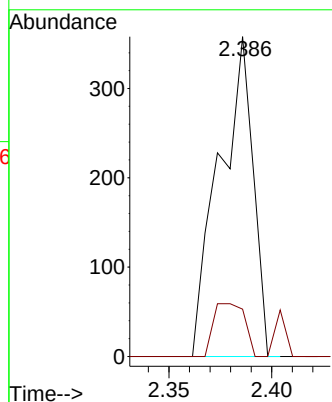


#16
Acetone
Concen: 0.572 ug/l
RT: 2.386 min Scan# 211
Delta R.T. 0.012 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :

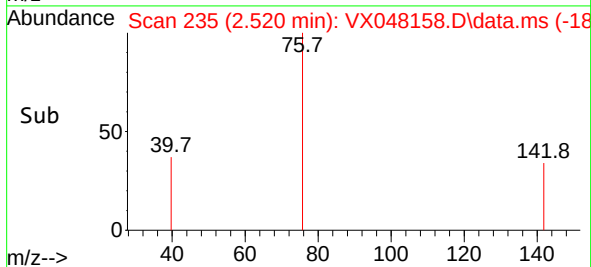
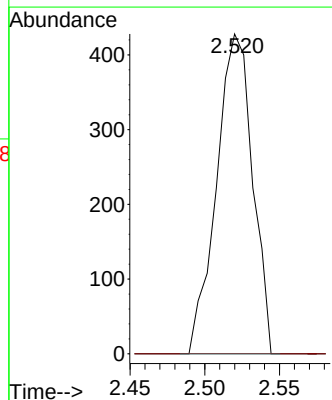
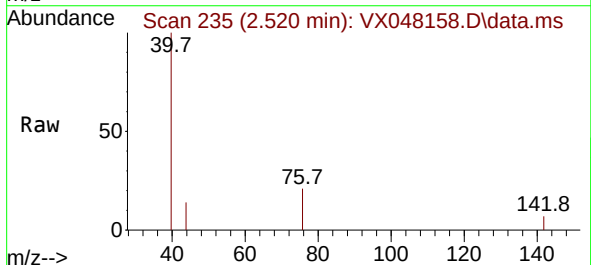


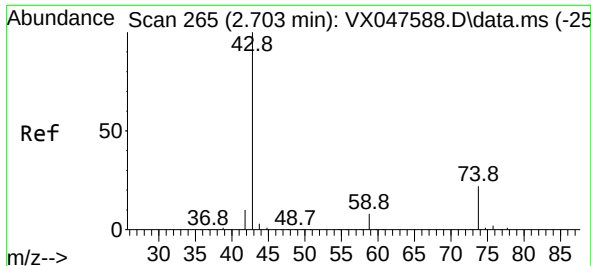
Tgt Ion: 43 Resp: 409
Ion Ratio Lower Upper
43 100
58 6.4 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.213 ug/l
RT: 2.520 min Scan# 235
Delta R.T. 0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Tgt Ion: 76 Resp: 717
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

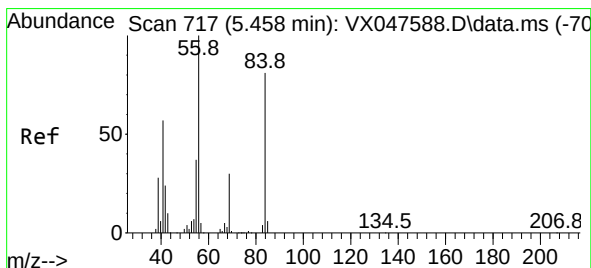
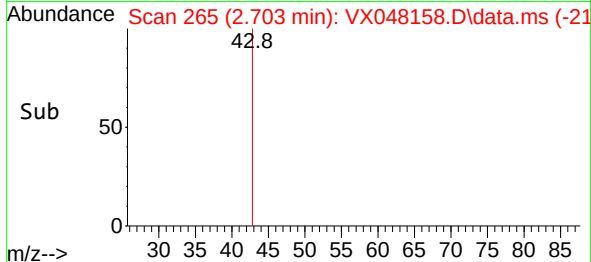
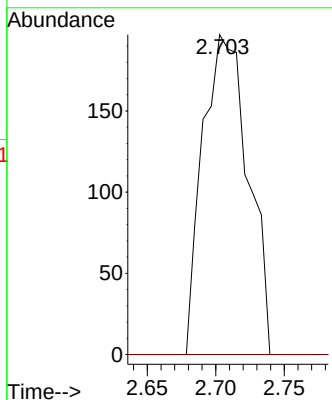
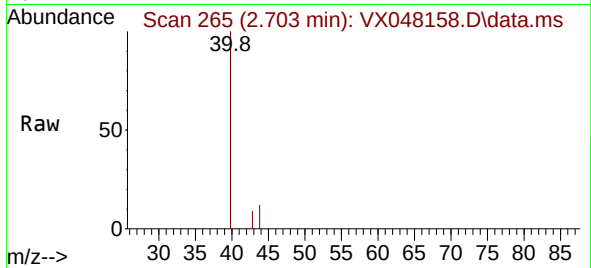




#18
Methyl Acetate
Concen: 0.286 ug/l
RT: 2.703 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

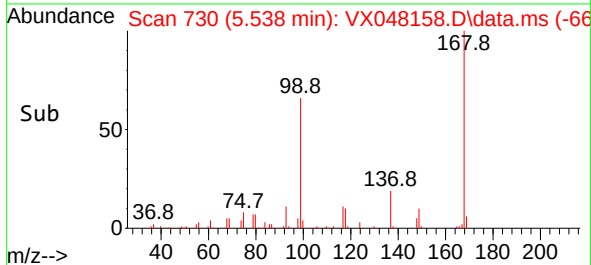
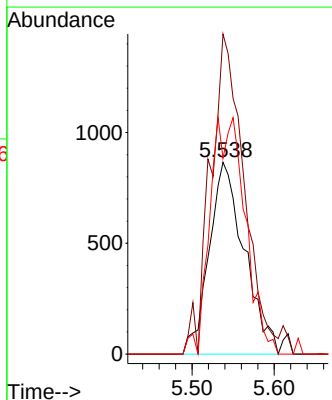
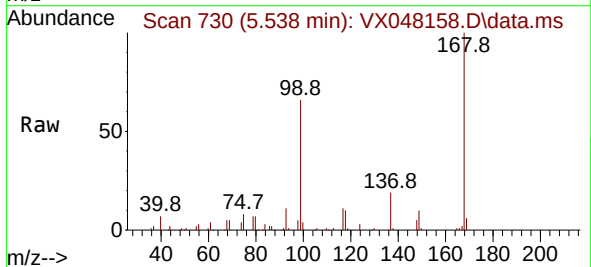
Instrument :
MSVOA_X
ClientSampleId :

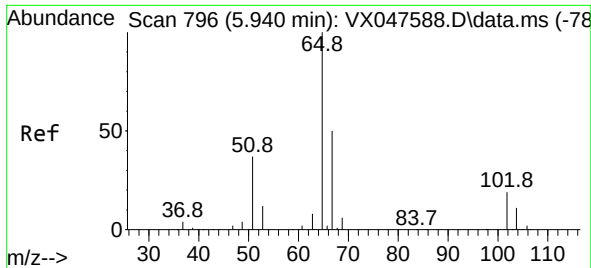
Tgt Ion: 43 Resp: 455
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#31
Cyclohexane
Concen: 1.184 ug/l
RT: 5.538 min Scan# 730
Delta R.T. 0.079 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Tgt Ion: 56 Resp: 2575
Ion Ratio Lower Upper
56 100
69 166.9 23.8 35.8#
84 102.1 64.6 97.0#

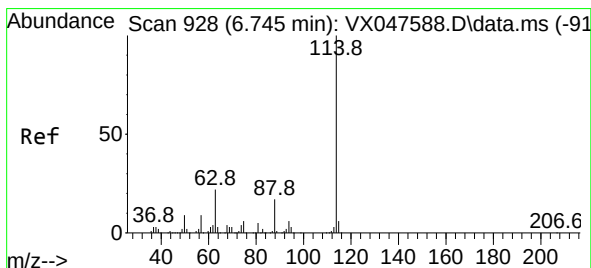
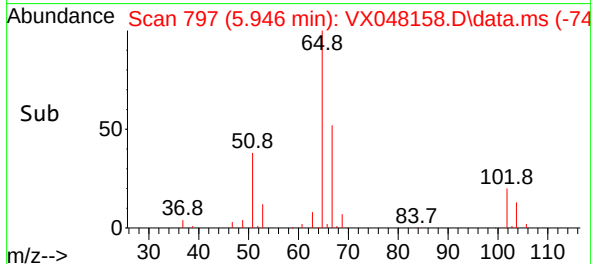
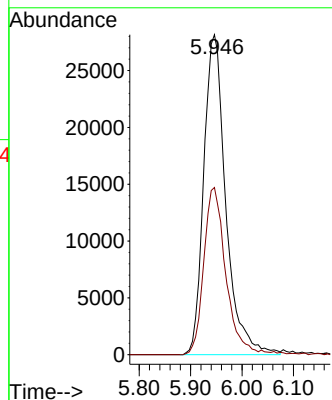
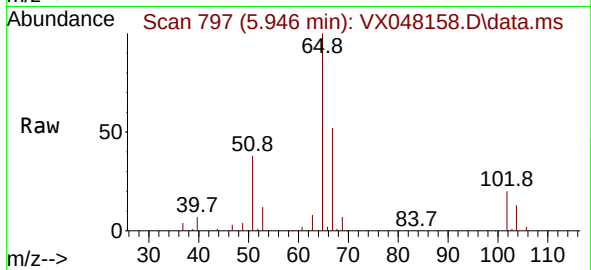




#33
 1,2-Dichloroethane-d4
 Concen: 50.967 ug/l
 RT: 5.946 min Scan# 796
 Delta R.T. 0.006 min
 Lab File: VX048158.D
 Acq: 14 Oct 2025 12:28

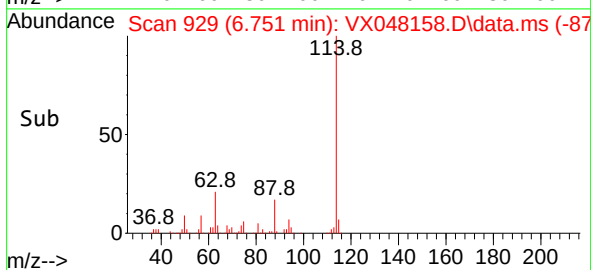
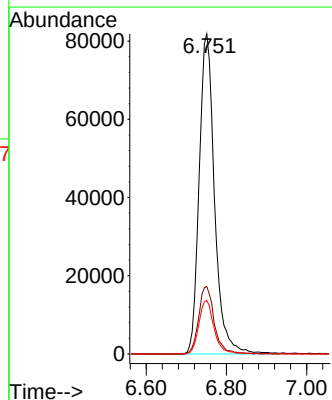
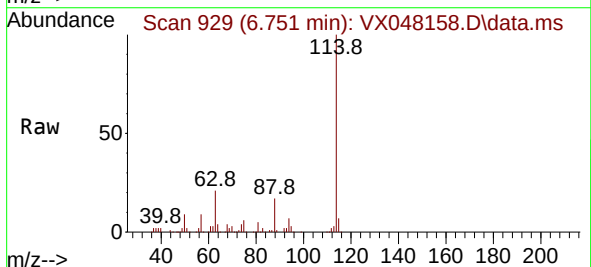
Instrument :
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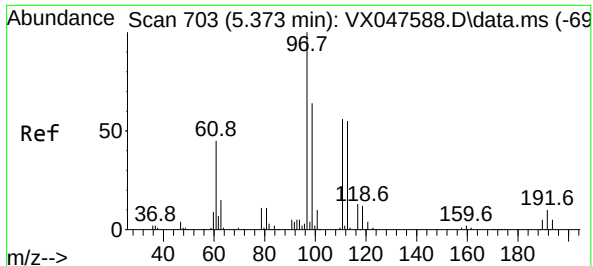
Tgt Ion: 65 Resp: 83870
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.751 min Scan# 929
 Delta R.T. 0.006 min
 Lab File: VX048158.D
 Acq: 14 Oct 2025 12:28

Tgt Ion: 114 Resp: 217778
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 44.0
 88 16.7 0.0 34.2

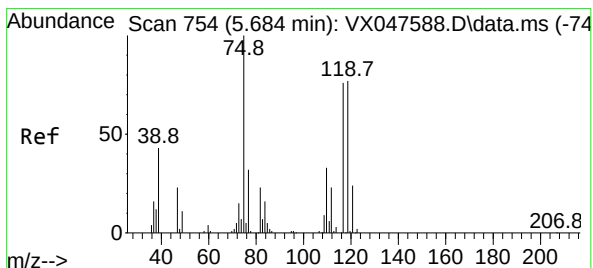
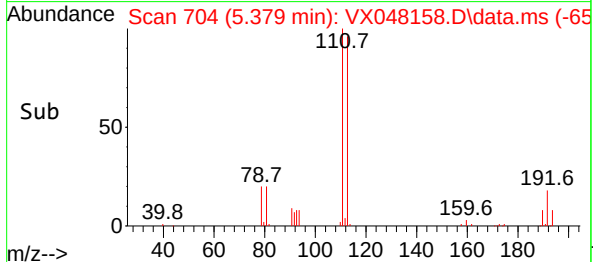
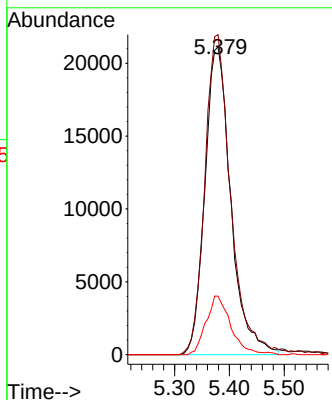
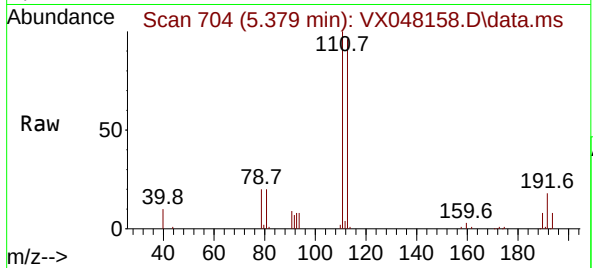




#35
Dibromofluoromethane
Concen: 47.506 ug/l
RT: 5.379 min Scan# 703
Delta R.T. 0.006 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

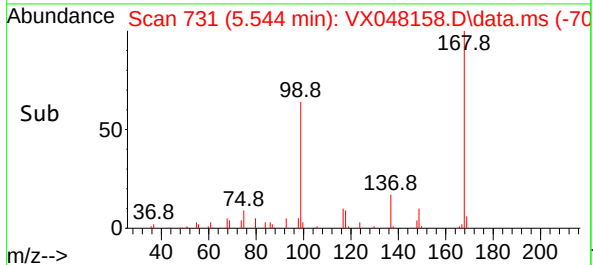
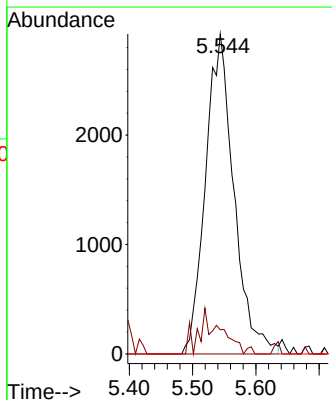
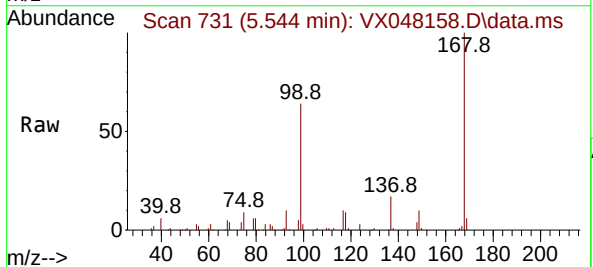
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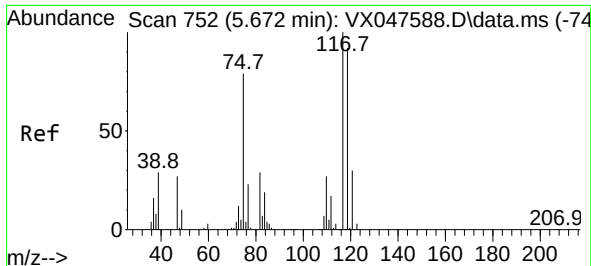
Tgt Ion:113 Resp: 69385
Ion Ratio Lower Upper
113 100
111 104.0 80.9 121.3
192 18.3 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.266 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

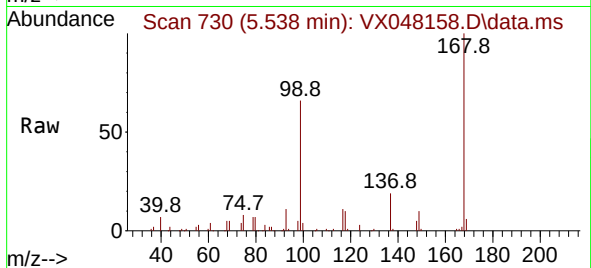
Tgt Ion: 75 Resp: 9105
Ion Ratio Lower Upper
75 100
110 0.0 16.7 50.1#
77 0.0 24.3 36.5#



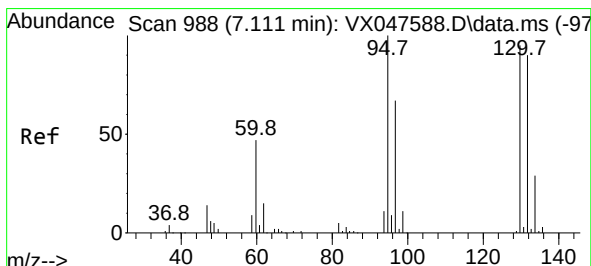
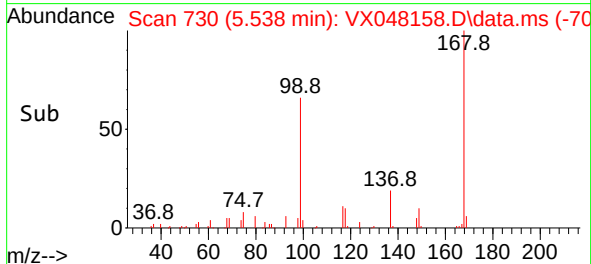
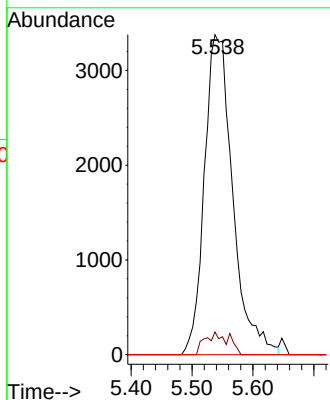


#38
Carbon Tetrachloride
Concen: 4.706 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :

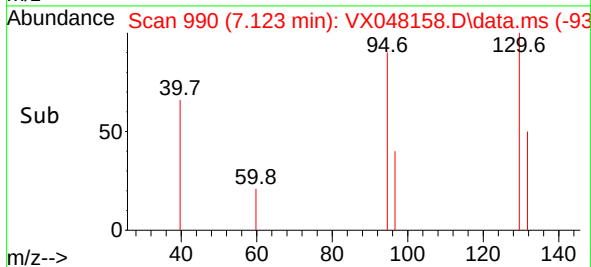
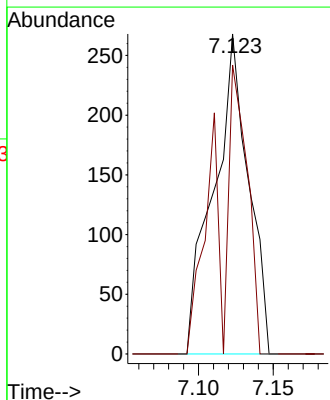
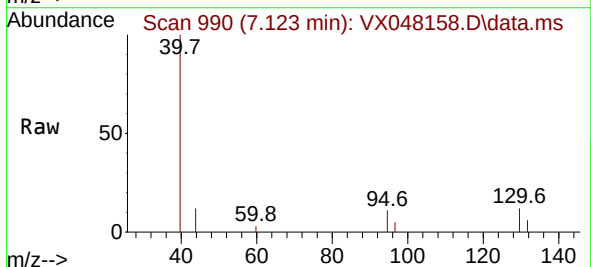


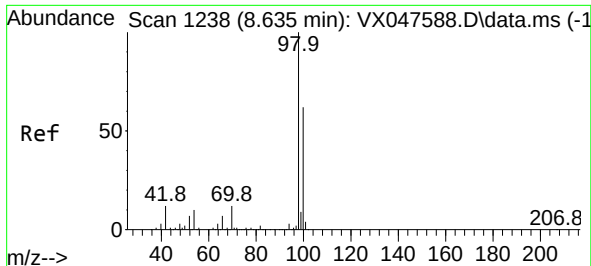
Tgt Ion:117 Resp: 10913
Ion Ratio Lower Upper
117 100
119 7.0 73.4 110.2#
121 0.0 23.8 35.6#



#44
Trichloroethene
Concen: 0.276 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.012 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Tgt Ion:130 Resp: 433
Ion Ratio Lower Upper
130 100
95 90.3 0.0 210.8

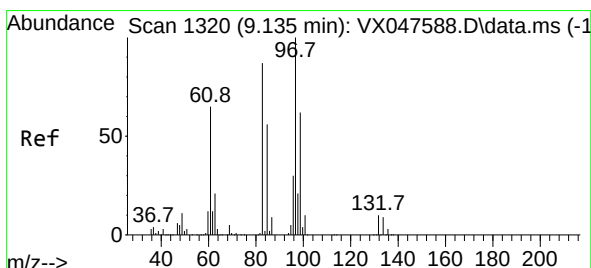
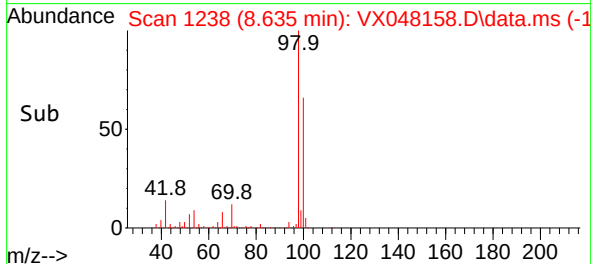
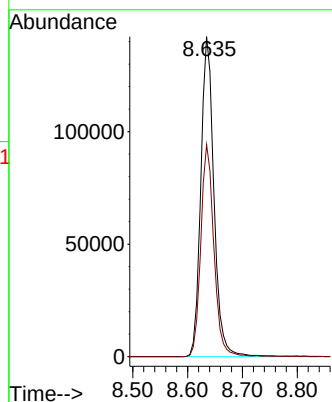
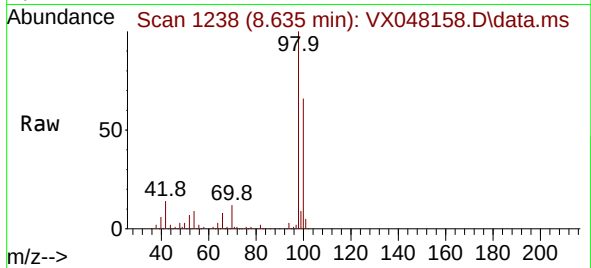




#50
Toluene-d8
Concen: 46.908 ug/l
RT: 8.635 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

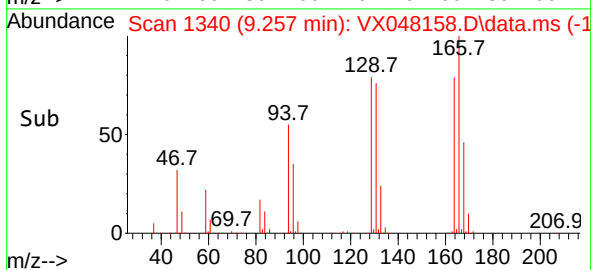
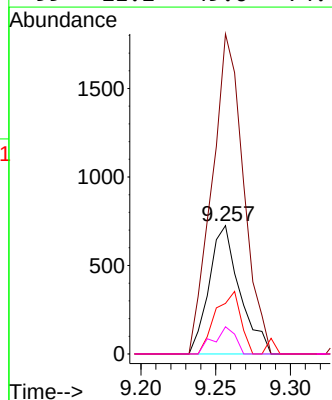
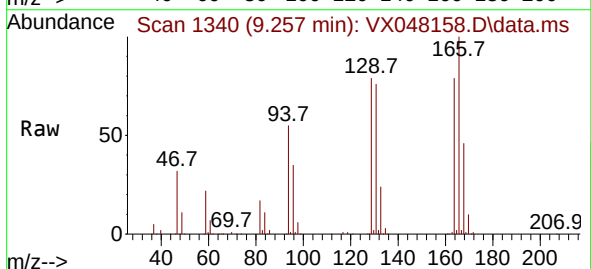
Instrument :
MSVOA_X
ClientSampleId :

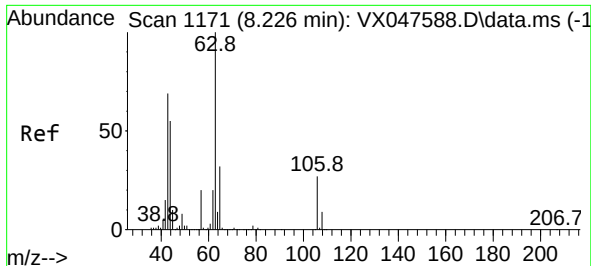
Tgt Ion: 98 Resp: 237059
Ion Ratio Lower Upper
98 100
100 66.2 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 0.671 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.122 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Tgt Ion: 97 Resp: 1033
Ion Ratio Lower Upper
97 100
83 249.4 69.6 104.4#
85 39.4 45.0 67.6#
99 21.2 49.6 74.4#

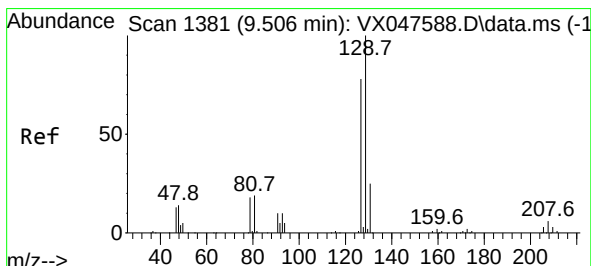
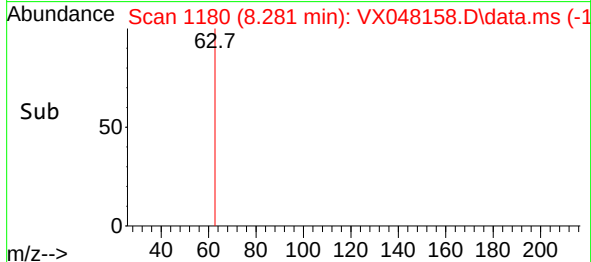
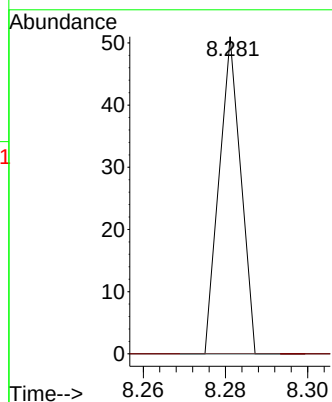
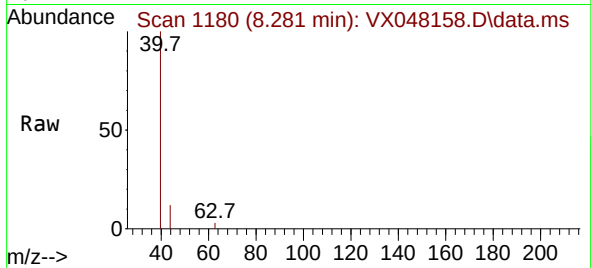




#58
2-Chloroethyl Vinyl ether
Concen: 7.909 ug/l
RT: 8.281 min Scan# 1171
Delta R.T. 0.055 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

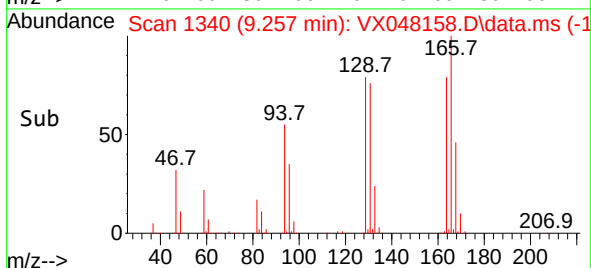
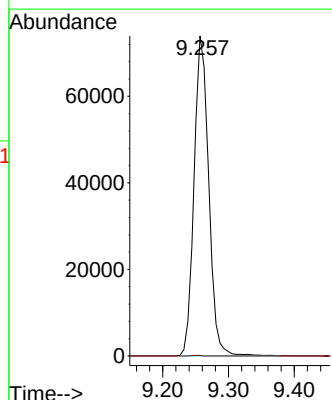
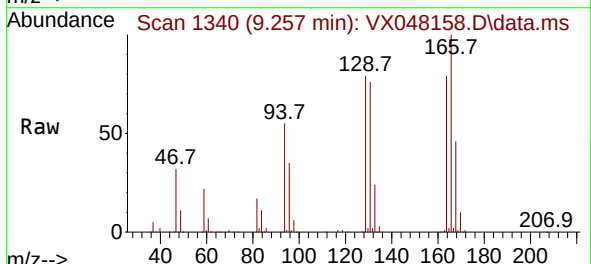
Instrument :
MSVOA_X
ClientSampleId :

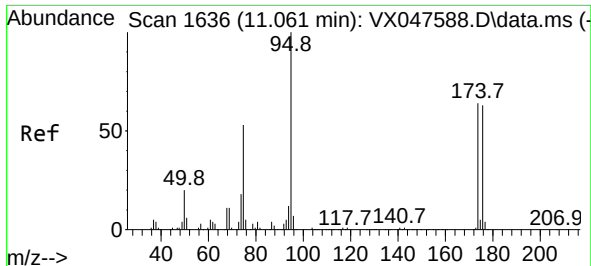
Tgt Ion: 63 Resp: 19
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#



#60
Dibromochloromethane
Concen: 64.238 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. -0.250 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Tgt Ion:129 Resp: 113979
Ion Ratio Lower Upper
129 100
127 0.1 38.4 115.2#

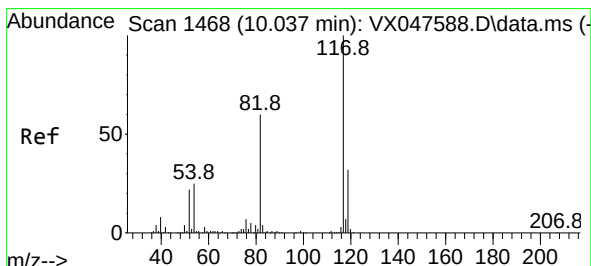
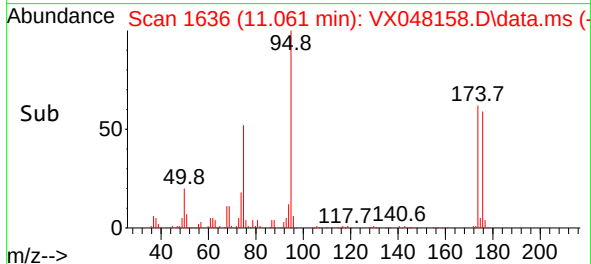
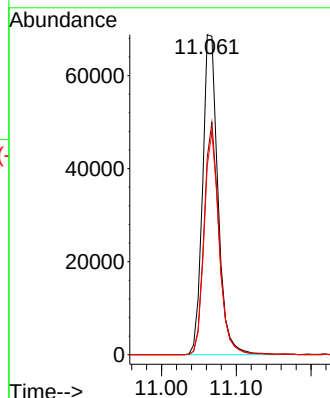
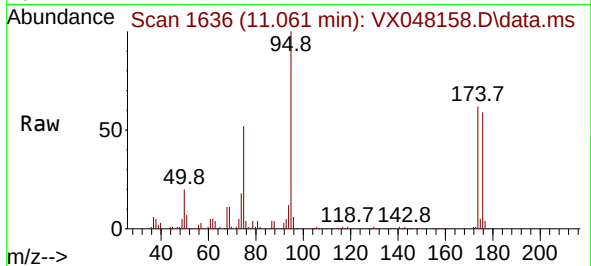




#62
4-Bromofluorobenzene
Concen: 51.171 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

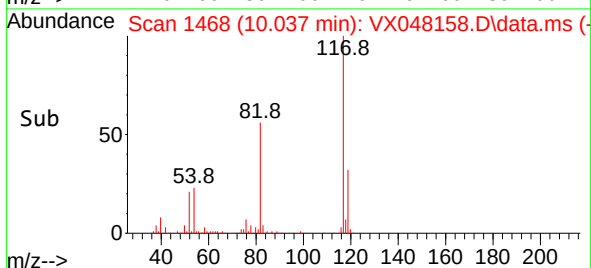
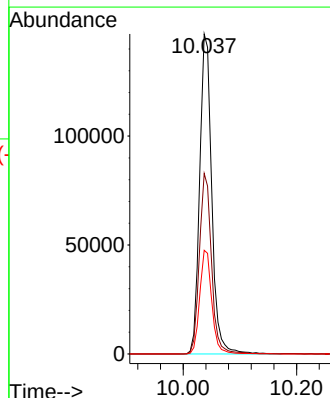
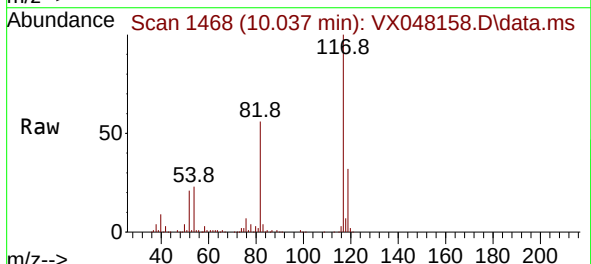
Instrument :
MSVOA_X
ClientSampleId :

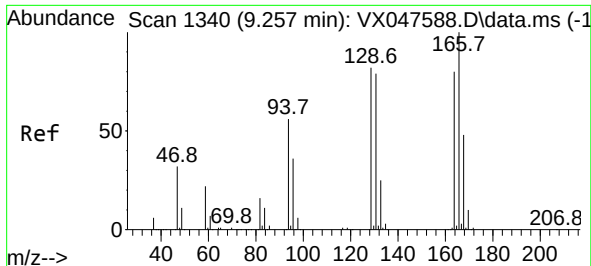
Tgt Ion: 95 Resp: 98145
Ion Ratio Lower Upper
95 100
174 70.8 0.0 141.6
176 68.1 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

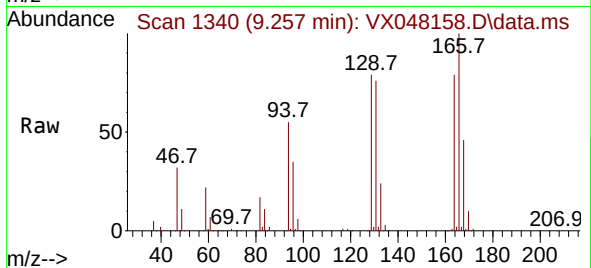
Tgt Ion: 117 Resp: 217224
Ion Ratio Lower Upper
117 100
82 56.4 47.8 71.6
119 32.4 25.2 37.8



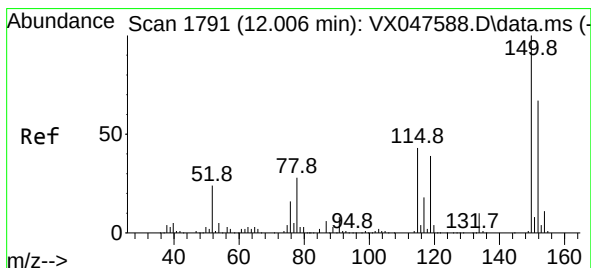
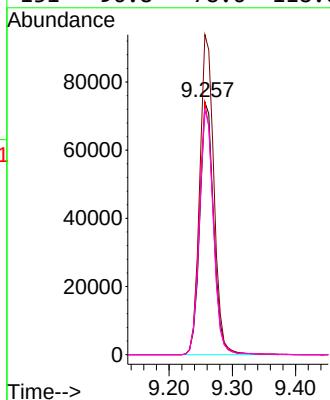
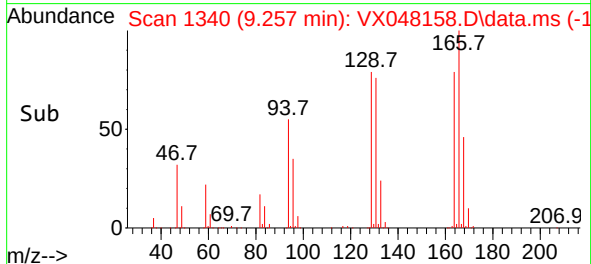


#64
Tetrachloroethene
Concen: 80.300 ug/l
RT: 9.257 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

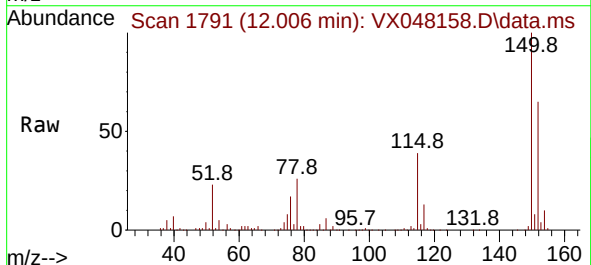
Instrument :
MSVOA_X
ClientSampleId :



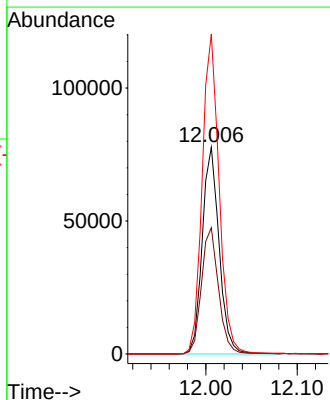
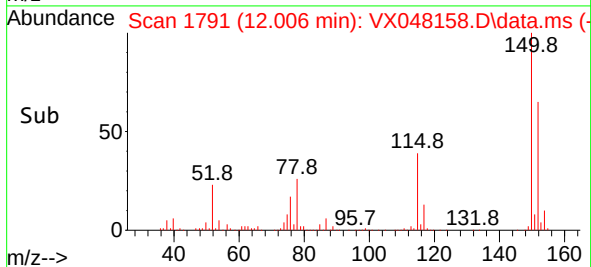
Tgt Ion:164 Resp: 113711
Ion Ratio Lower Upper
164 100
166 126.7 100.2 150.2
129 99.8 81.8 122.6
131 96.8 78.6 118.0

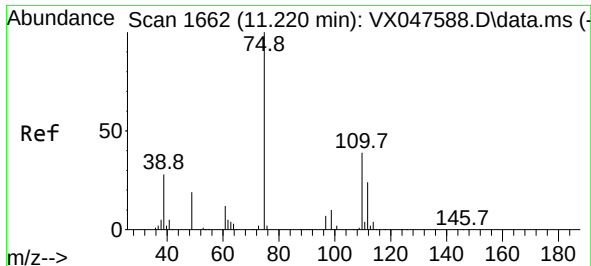


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28



Tgt Ion:152 Resp: 99280
Ion Ratio Lower Upper
152 100
115 62.0 44.9 134.5
150 155.9 0.0 352.0

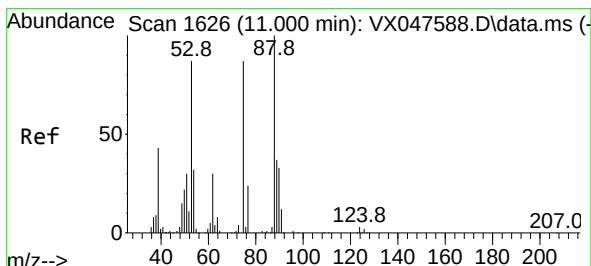
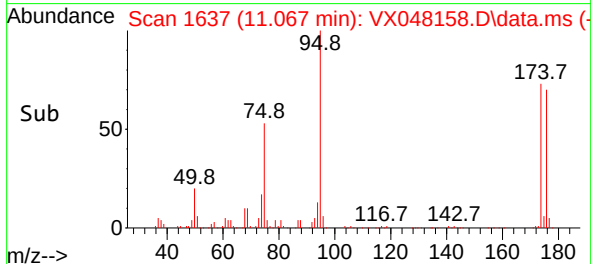
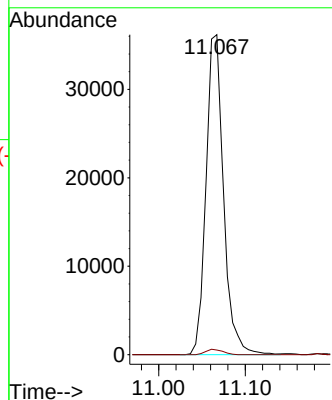
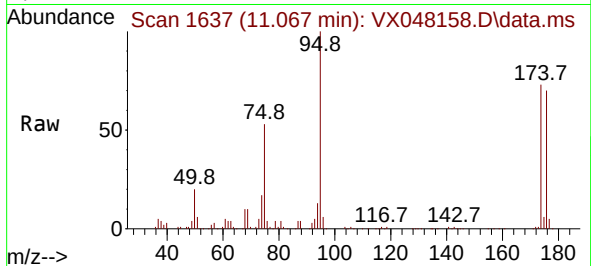




#76
1,2,3-Trichloropropane
Concen: 25.272 ug/l
RT: 11.067 min Scan# 11
Delta R.T. -0.152 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

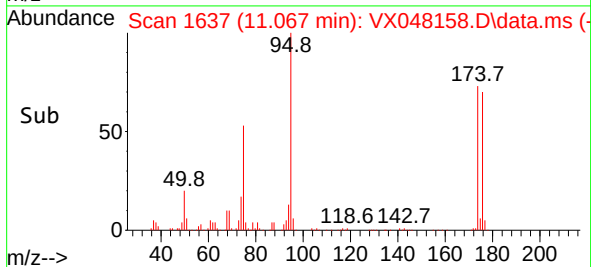
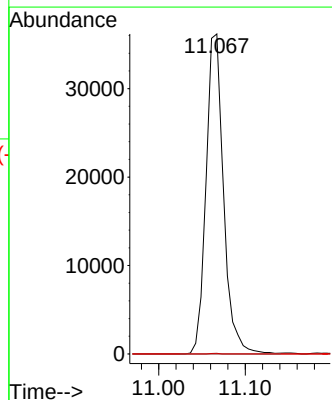
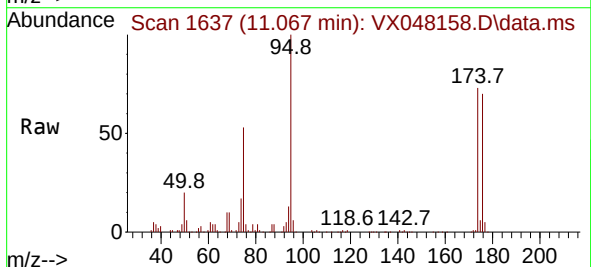
Instrument :
MSVOA_X
ClientSampleId :

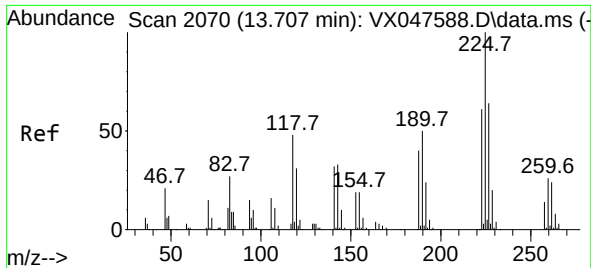
Tgt Ion: 75 Resp: 50799
Ion Ratio Lower Upper
75 100
77 1.6 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.447 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.067 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

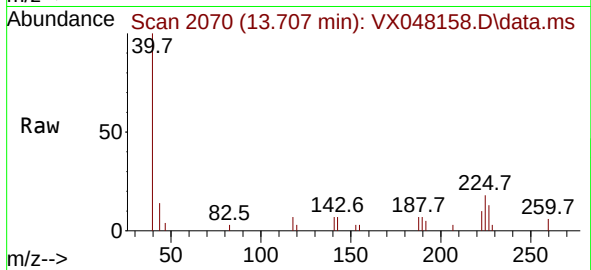
Tgt Ion: 75 Resp: 50799
Ion Ratio Lower Upper
75 100
53 0.1 83.4 125.2#
89 0.0 36.3 54.5#





#94
Hexachlorobutadiene
Concen: 0.580 ug/l
RT: 13.707 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX048158.D
Acq: 14 Oct 2025 12:28

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	225	Resp:	421
Ion	Ratio	Lower	Upper
225	100		
223	54.4	31.7	95.1
227	75.3	32.0	96.0

