

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112025\
 Data File : VX048631.D
 Acq On : 20 Nov 2025 12:46
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Quant Time: Nov 21 00:31:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

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

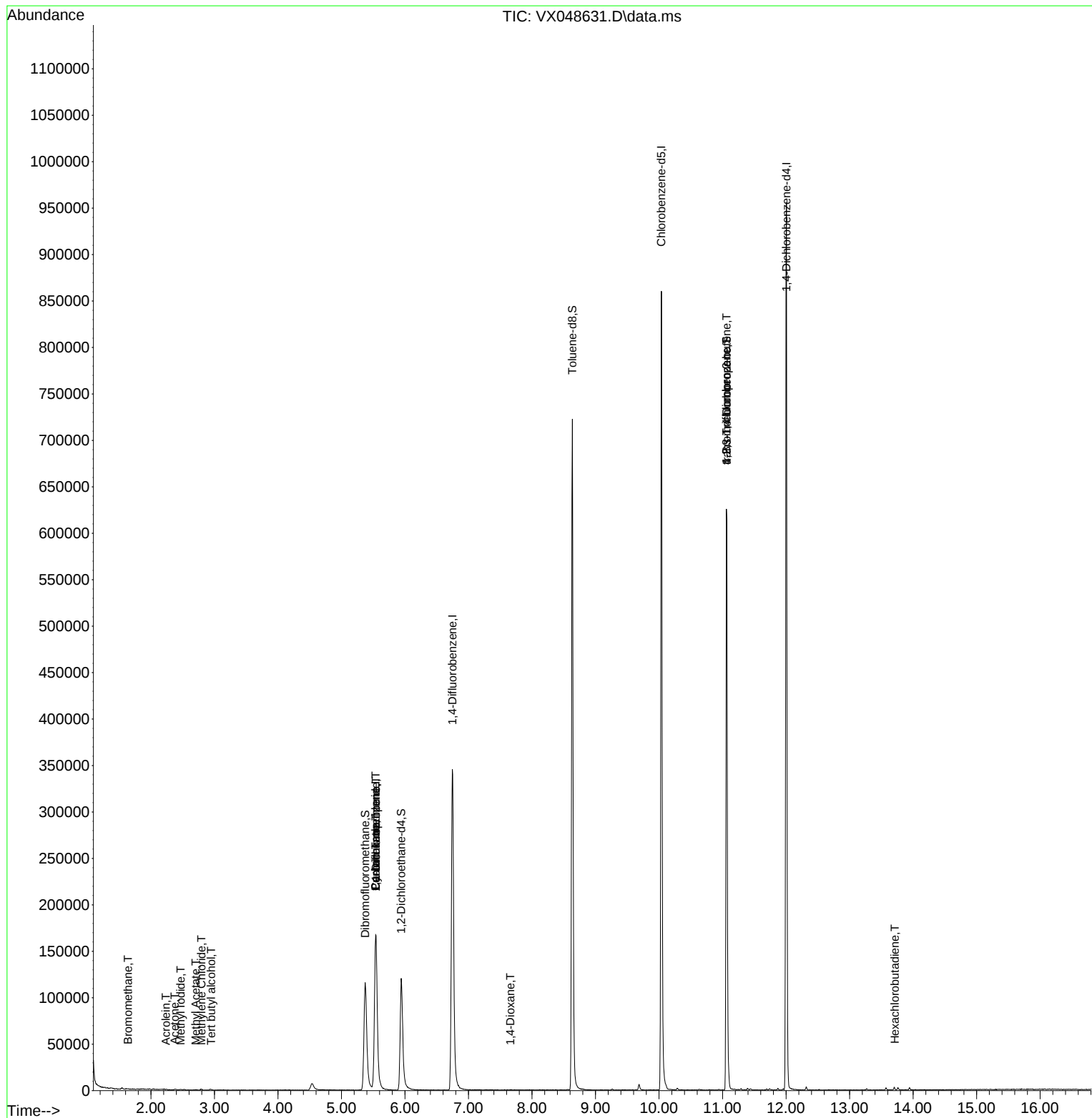
Internal Standards						
1) Pentafluorobenzene	5.537	168	174612	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	394197	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	416467	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	214820	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	131401	54.006	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.020%			
35) Dibromofluoromethane	5.373	113	112888	37.837	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 75.680%			
50) Toluene-d8	8.634	98	460374	49.475	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.960%			
62) 4-Bromofluorobenzene	11.061	95	190136	54.830	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.660%			
Target Compounds						Qvalue
5) Bromomethane	1.636	94	290	0.216	ug/l #	53
10) Methyl Iodide	2.465	142	709	0.246	ug/l #	88
11) Tert butyl alcohol	2.946	59	328	0.711	ug/l #	71
13) Acrolein	2.233	56	22	0.330	ug/l #	67
16) Acetone	2.373	43	1157	1.005	ug/l #	70
18) Methyl Acetate	2.703	43	845	0.267	ug/l #	68
20) Methylene Chloride	2.794	84	548	0.231	ug/l #	60
31) Cyclohexane	5.537	56	3666	1.122	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	14244	3.565	ug/l #	49
38) Carbon Tetrachloride	5.537	117	17648	3.881	ug/l #	18
49) 1,4-Dioxane	7.659	88	150	2.801	ug/l #	63
76) 1,2,3-Trichloropropane	11.061	75	90135	17.416	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	90135	49.816	ug/l #	12
94) Hexachlorobutadiene	13.713	225	592	0.294	ug/l	86

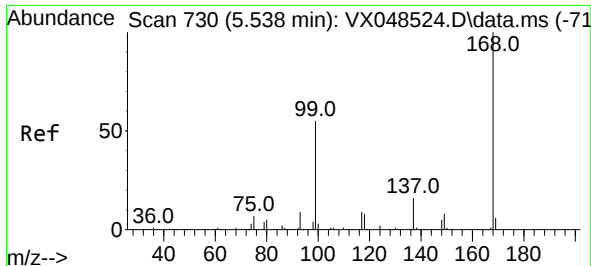
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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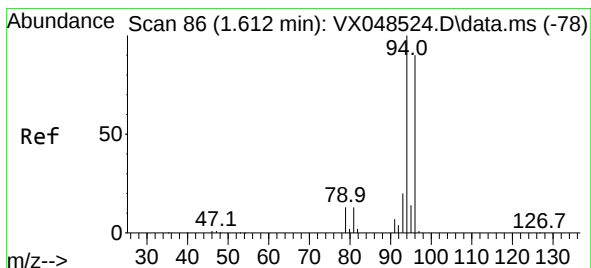
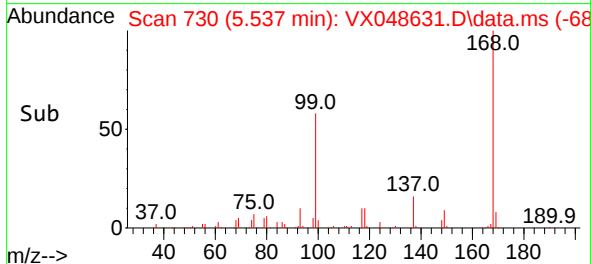
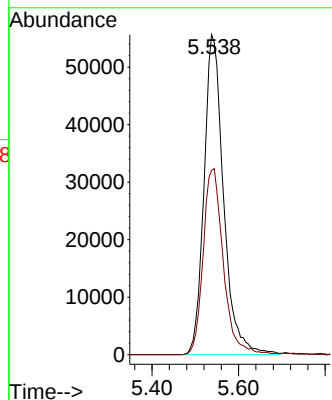
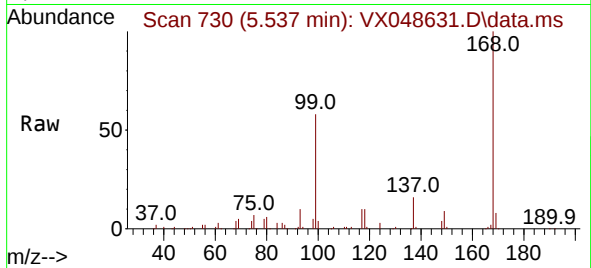




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

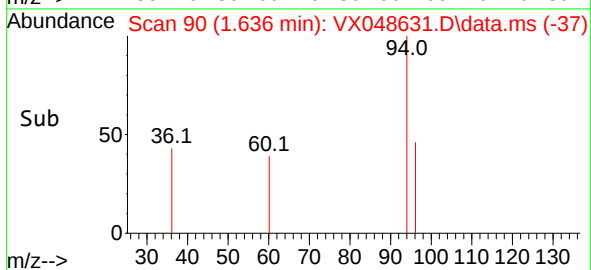
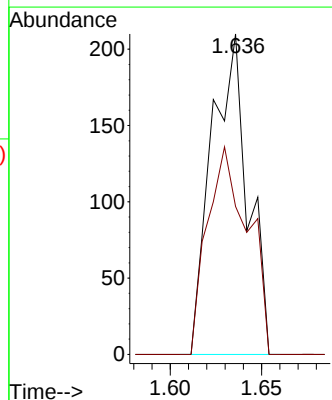
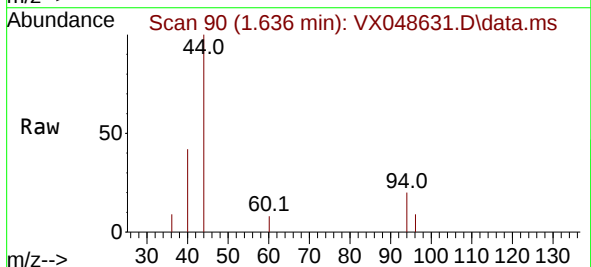
Instrument :
MSVOA_X
ClientSampleId :
IBLK

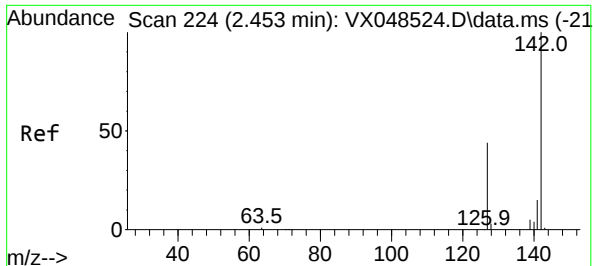
Tgt Ion:168 Resp: 174612
Ion Ratio Lower Upper
168 100
99 57.5 45.2 67.8



#5
Bromomethane
Concen: 0.216 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.024 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

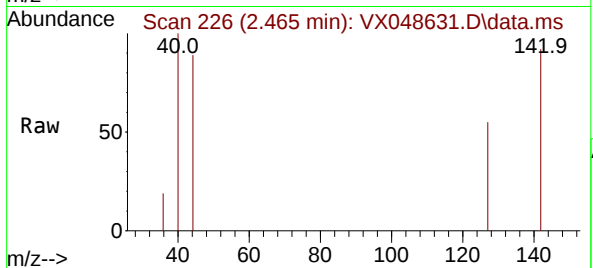
Tgt Ion: 94 Resp: 290
Ion Ratio Lower Upper
94 100
96 46.2 72.3 108.5#



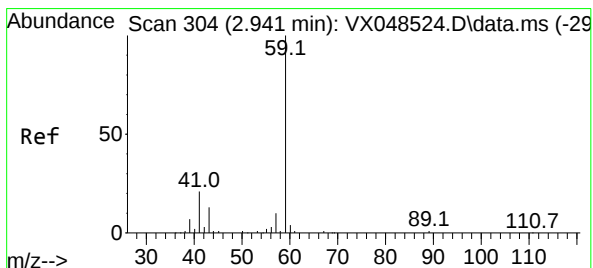
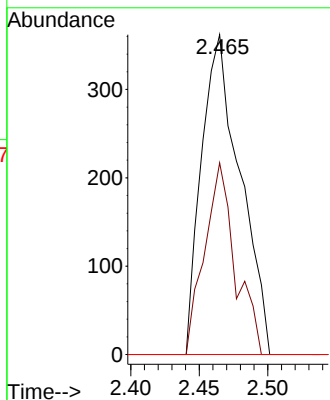
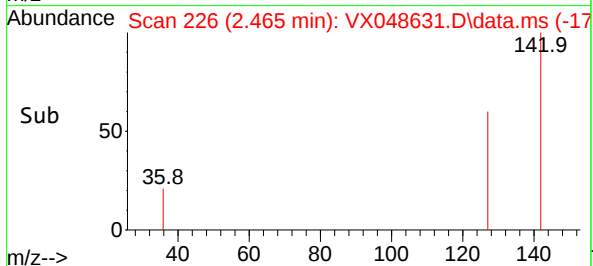


#10
Methyl Iodide
Concen: 0.246 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
IBLK

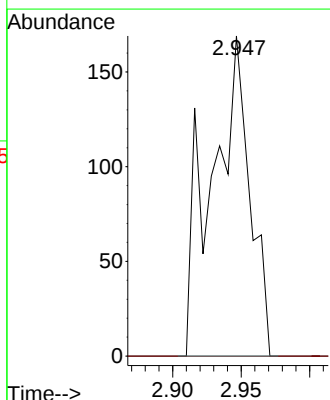
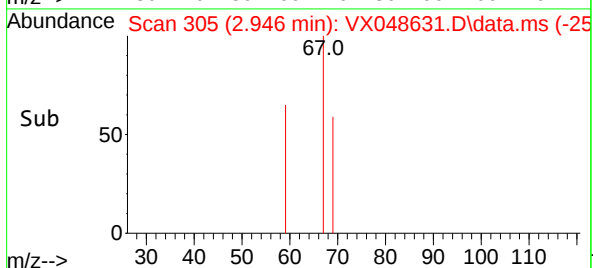
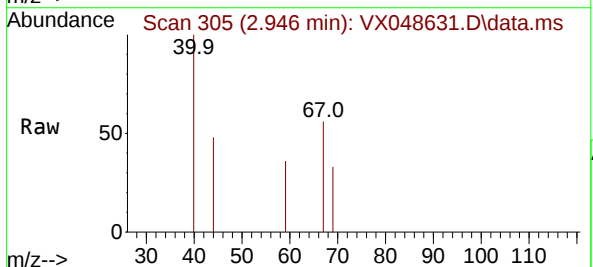


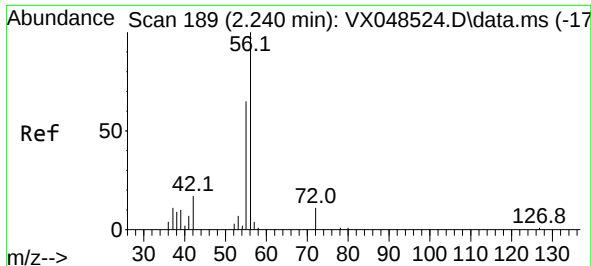
Tgt Ion:142 Resp: 709
Ion Ratio Lower Upper
142 100
127 47.7 35.8 53.6
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.711 ug/l
RT: 2.946 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Tgt Ion: 59 Resp: 328
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

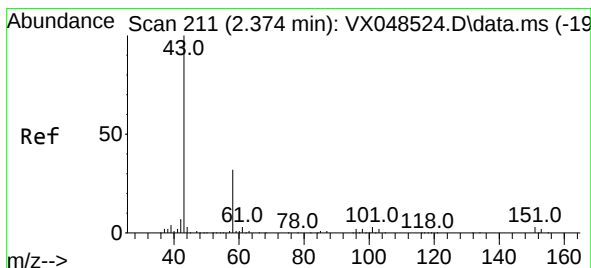
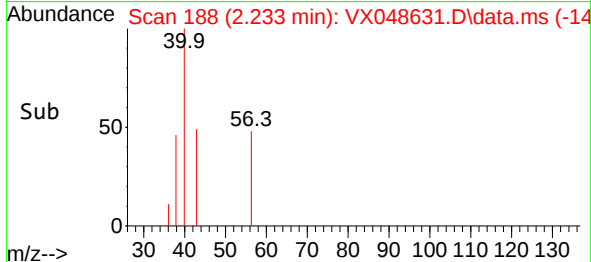
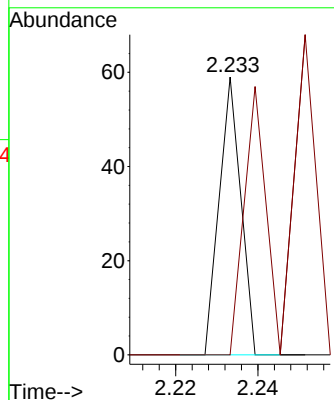
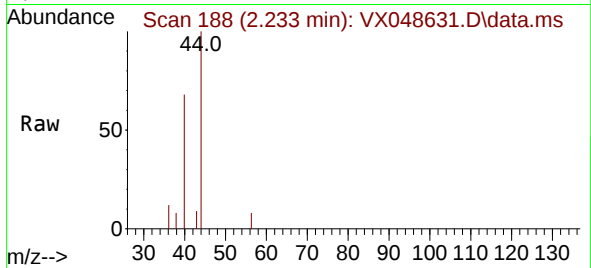




#13
Acrolein
Concen: 0.330 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

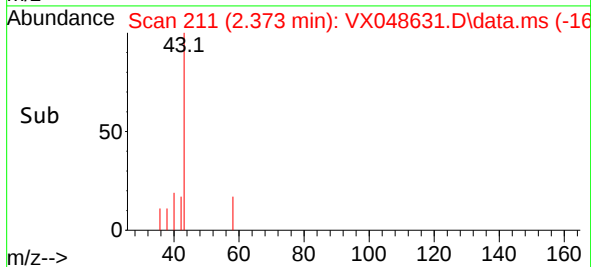
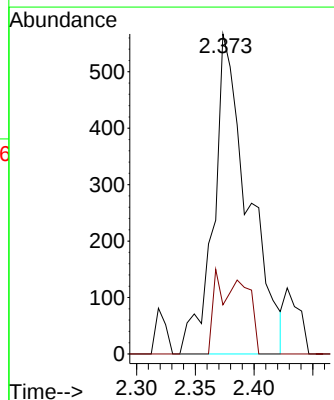
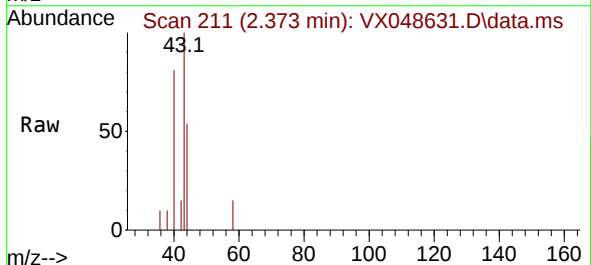
Instrument :
MSVOA_X
ClientSampleId :
IBLK

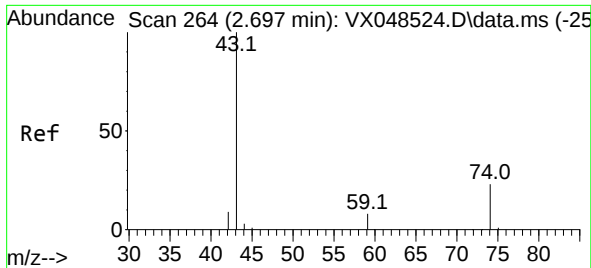
Tgt Ion: 56 Resp: 22
Ion Ratio Lower Upper
56 100
55 95.5 54.9 82.3#



#16
Acetone
Concen: 1.005 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Tgt Ion: 43 Resp: 1157
Ion Ratio Lower Upper
43 100
58 15.3 25.8 38.6#

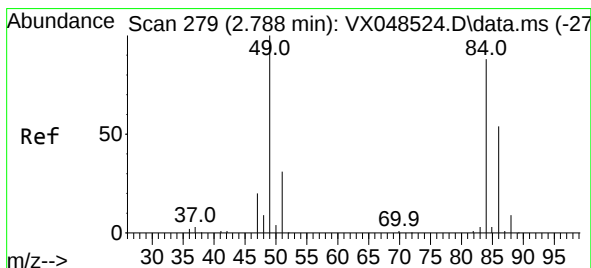
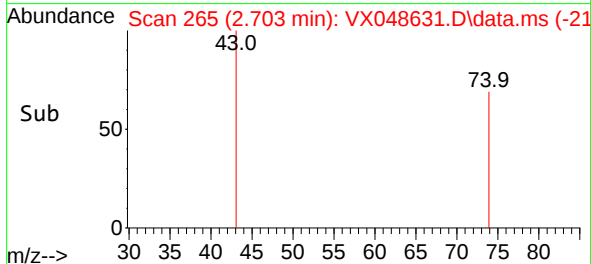
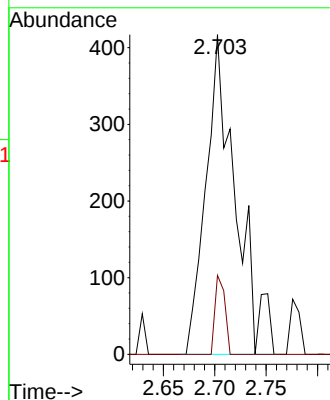
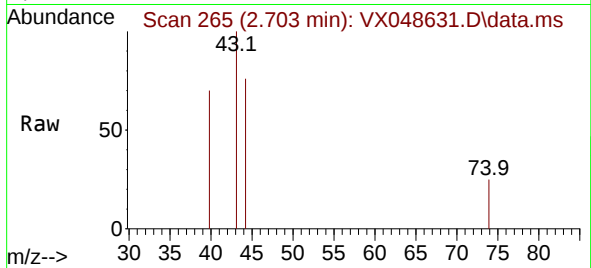




#18
Methyl Acetate
Concen: 0.267 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

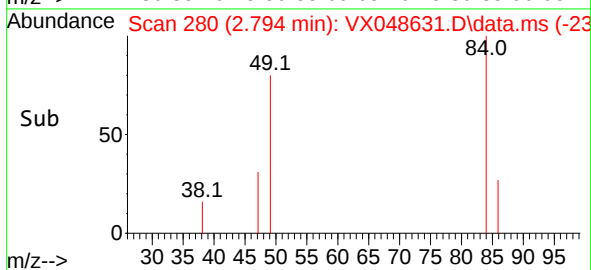
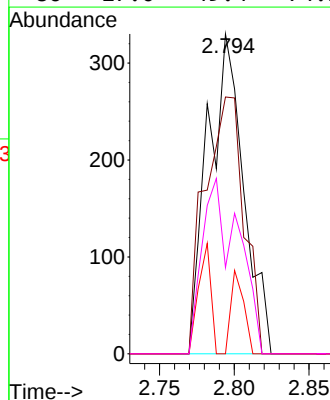
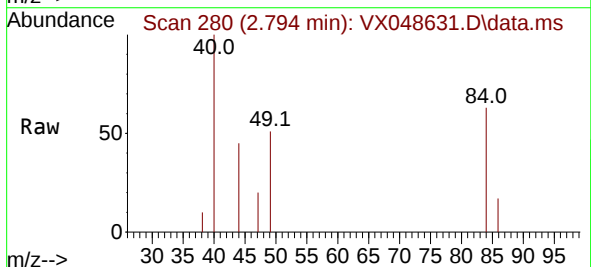
Instrument :
MSVOA_X
ClientSampleId :
IBLK

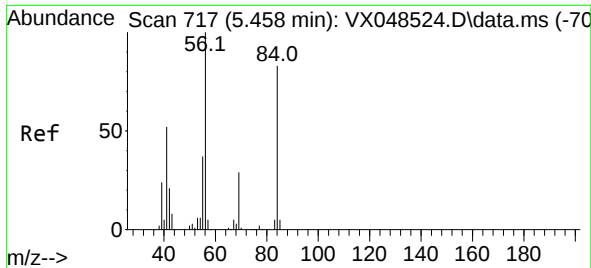
Tgt Ion: 43 Resp: 845
Ion Ratio Lower Upper
43 100
74 8.0 19.1 28.7#



#20
Methylene Chloride
Concen: 0.231 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Tgt Ion: 84 Resp: 548
Ion Ratio Lower Upper
84 100
49 80.3 91.2 136.8#
51 0.0 28.3 42.5#
86 27.0 49.4 74.2#

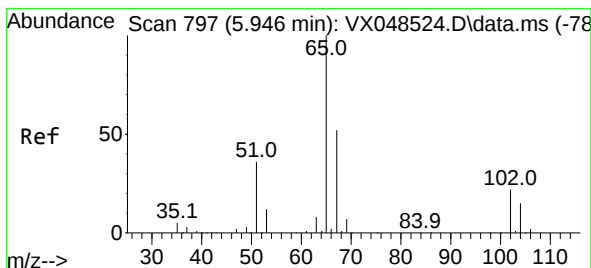
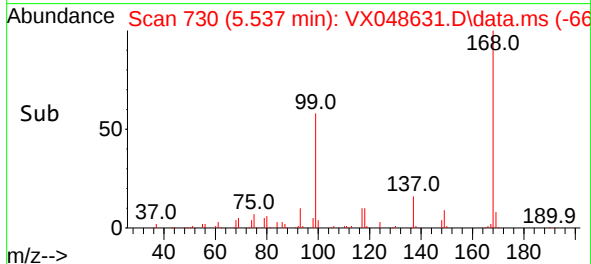
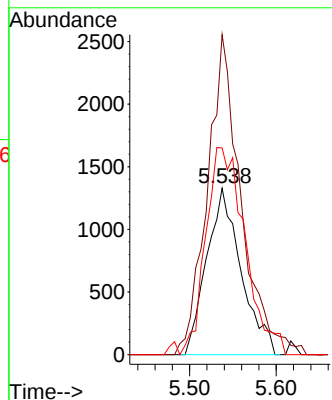
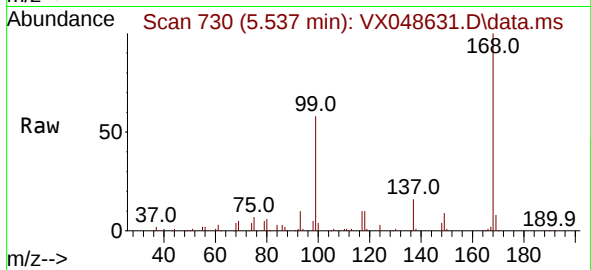




#31
Cyclohexane
Concen: 1.122 ug/l
RT: 5.537 min Scan# 717
Delta R.T. 0.079 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

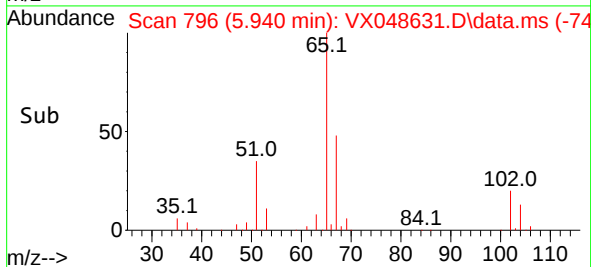
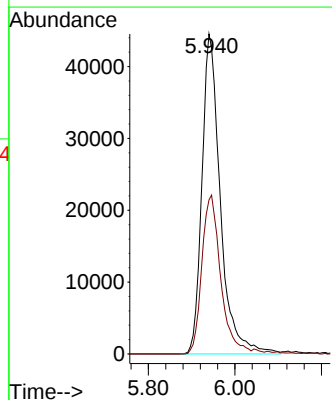
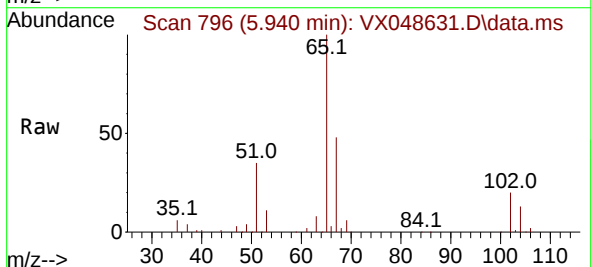
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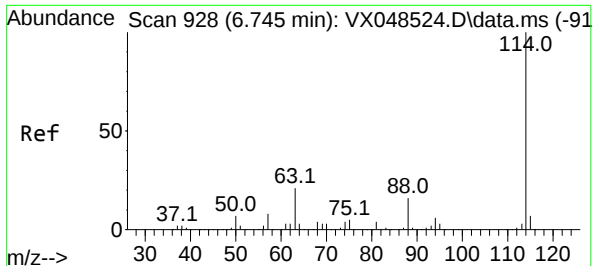
Tgt Ion: 56 Resp: 3666
Ion Ratio Lower Upper
56 100
69 185.6 23.4 35.2#
84 124.2 66.3 99.5#



#33
1,2-Dichloroethane-d4
Concen: 54.006 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.006 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Tgt Ion: 65 Resp: 131401
Ion Ratio Lower Upper
65 100
67 50.6 0.0 106.2

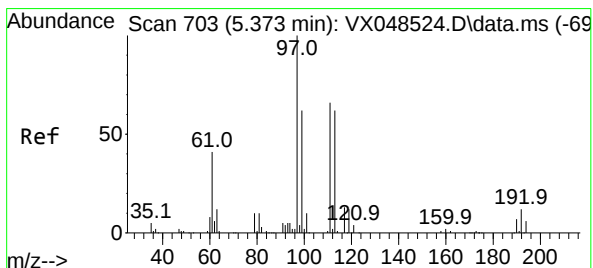
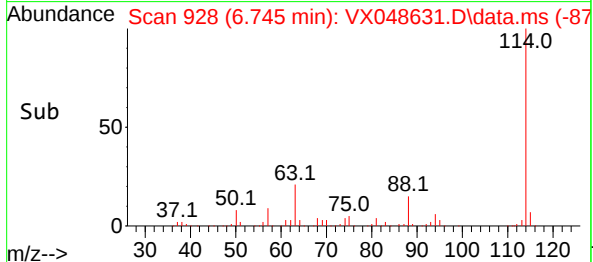
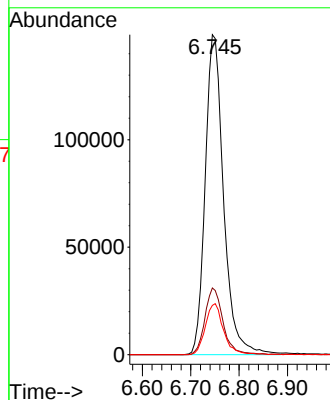
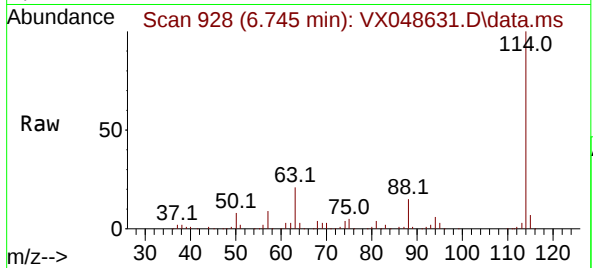




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

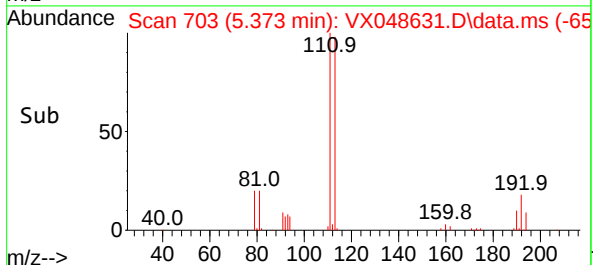
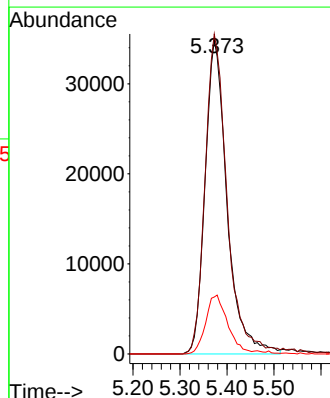
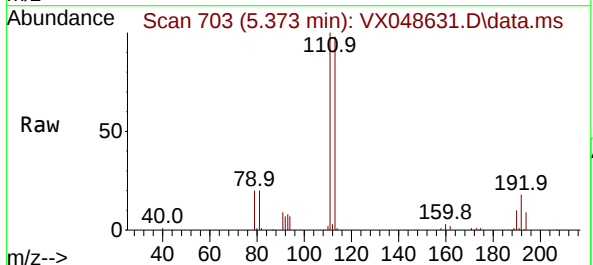
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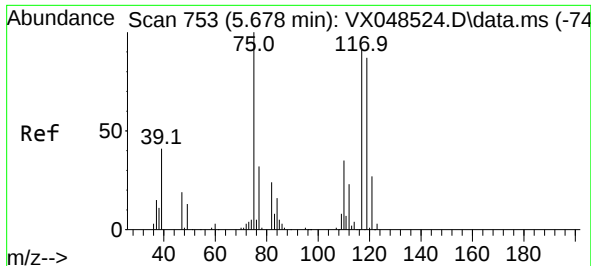
Tgt Ion:114 Resp: 394197
Ion Ratio Lower Upper
114 100
63 20.9 0.0 41.2
88 15.4 0.0 32.2



#35
Dibromofluoromethane
Concen: 37.837 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Tgt Ion:113 Resp: 112888
Ion Ratio Lower Upper
113 100
111 103.2 81.9 122.9
192 18.8 15.8 23.6

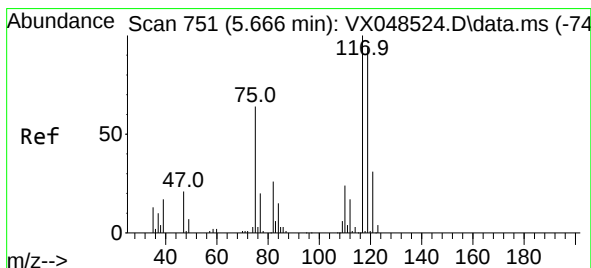
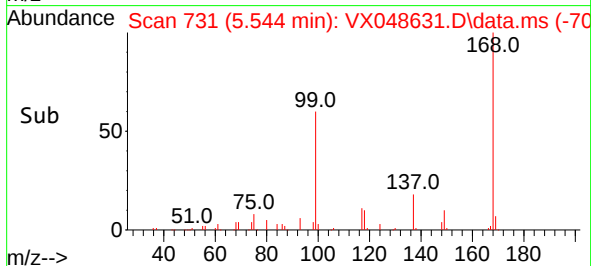
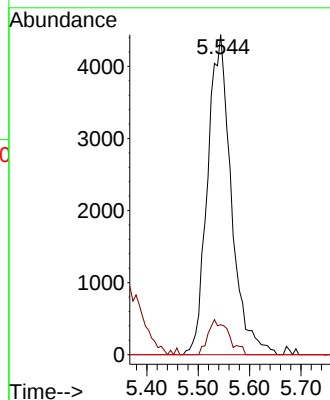
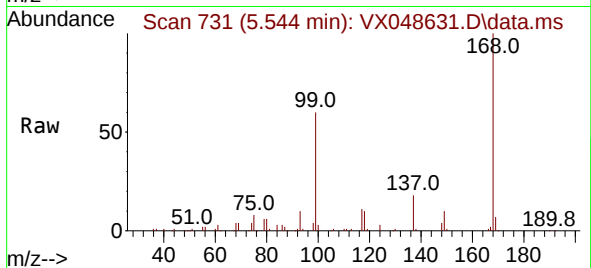




#36
1,1-Dichloropropene
Concen: 3.565 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

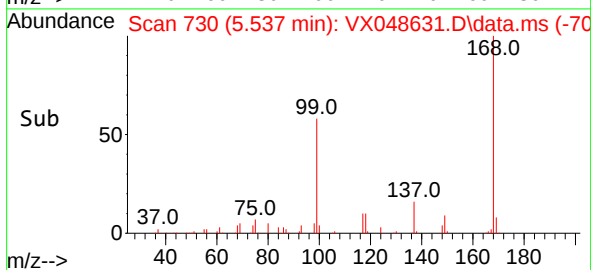
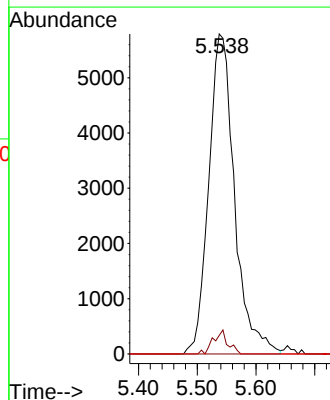
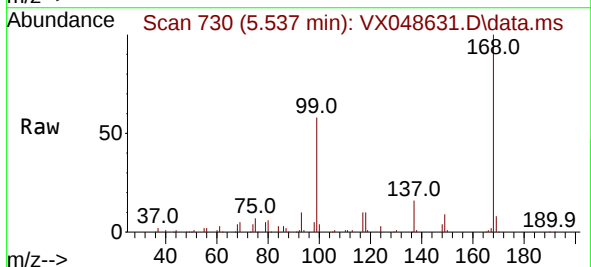
Instrument :
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IBLK

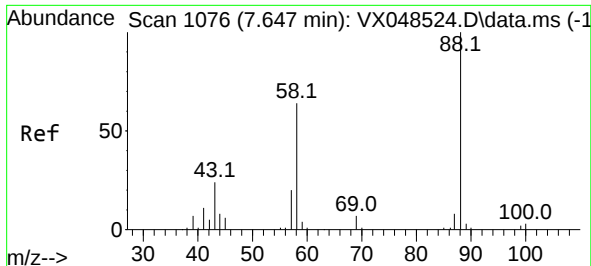
Tgt Ion: 75 Resp: 14244
Ion Ratio Lower Upper
75 100
110 9.5 18.4 55.4#
77 0.0 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 3.881 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.128 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Tgt Ion: 117 Resp: 17648
Ion Ratio Lower Upper
117 100
119 5.8 74.5 111.7#
121 0.0 24.8 37.2#





#49

1,4-Dioxane

Concen: 2.801 ug/l

RT: 7.659 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX048631.D

Acq: 20 Nov 2025 12:46

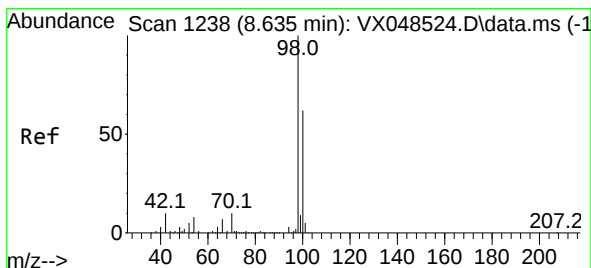
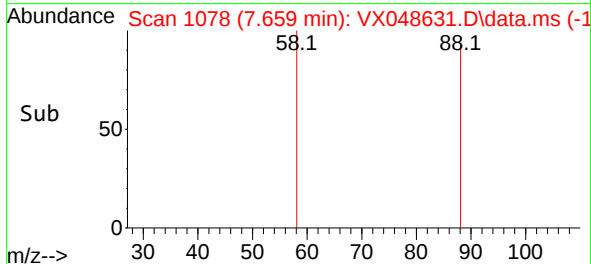
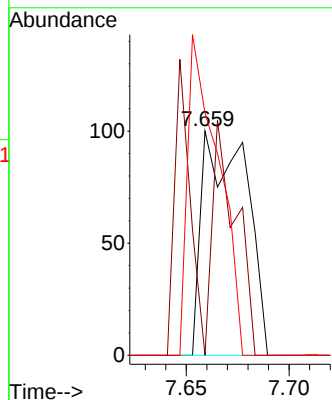
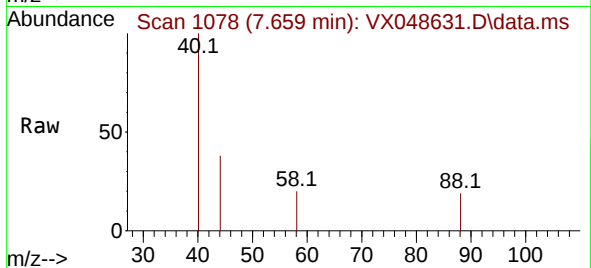
Instrument :

MSVOA_X

ClientSampleId :

IBLK

Tgt Ion:	88	Resp:	150
Ion	Ratio	Lower	Upper
88	100		
43	55.3	25.1	37.7#
58	98.7	56.7	85.1#



#50

Toluene-d8

Concen: 49.475 ug/l

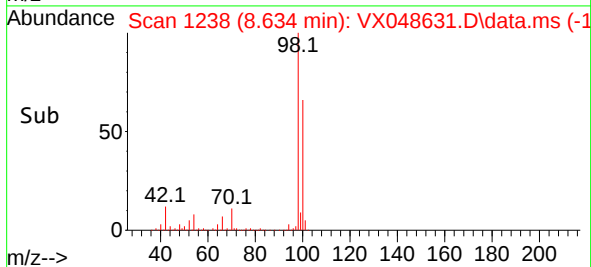
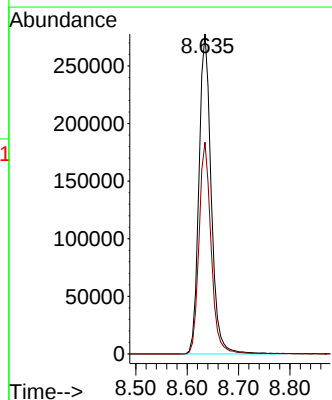
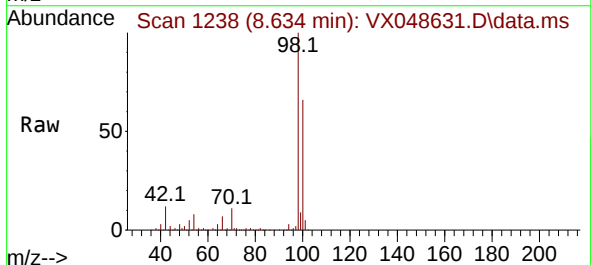
RT: 8.634 min Scan# 1238

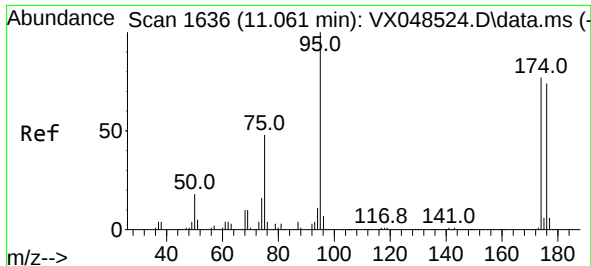
Delta R.T. -0.000 min

Lab File: VX048631.D

Acq: 20 Nov 2025 12:46

Tgt Ion:	98	Resp:	460374
Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.6	80.4





#62

4-Bromofluorobenzene

Concen: 54.830 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048631.D

Acq: 20 Nov 2025 12:46

Instrument :

MSVOA_X

ClientSampleId :

IBLK

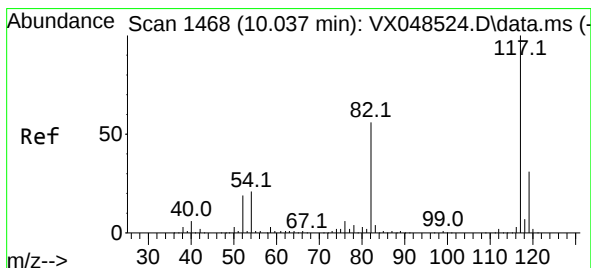
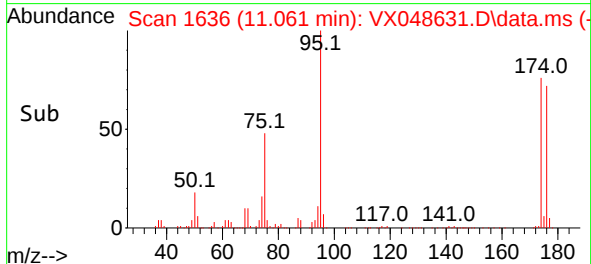
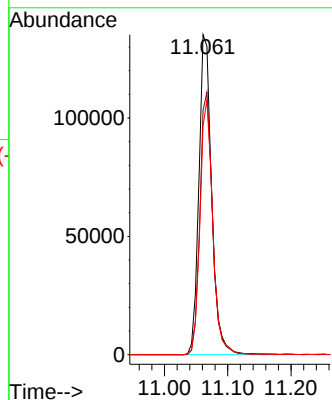
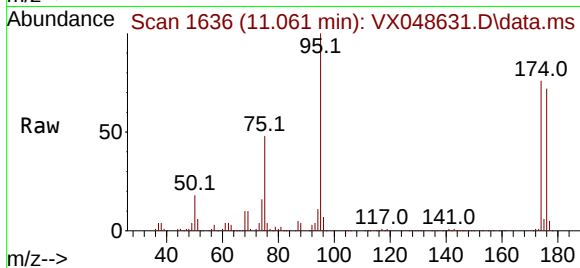
Tgt Ion: 95 Resp: 190136

Ion Ratio Lower Upper

95 100

174 82.1 0.0 161.8

176 79.1 0.0 153.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048631.D

Acq: 20 Nov 2025 12:46

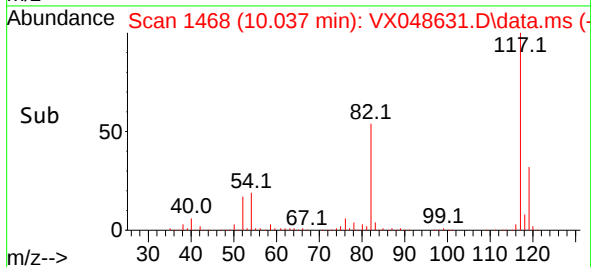
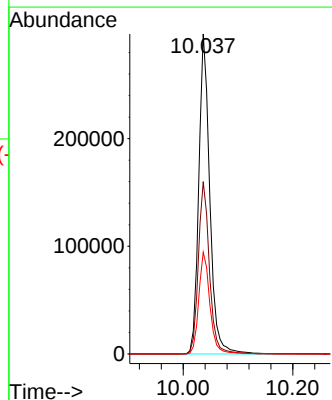
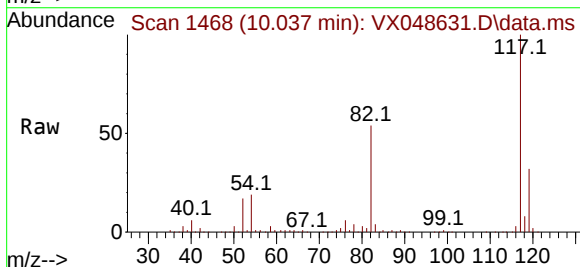
Tgt Ion: 117 Resp: 416467

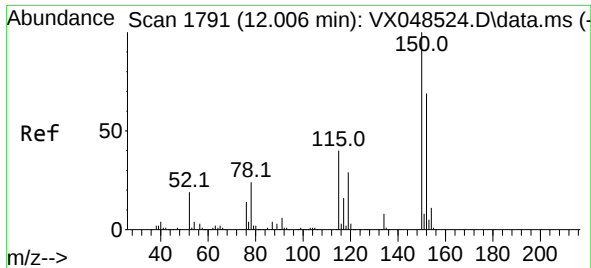
Ion Ratio Lower Upper

117 100

82 53.9 44.4 66.6

119 31.8 25.1 37.7

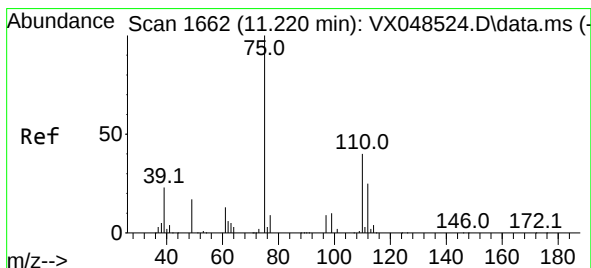
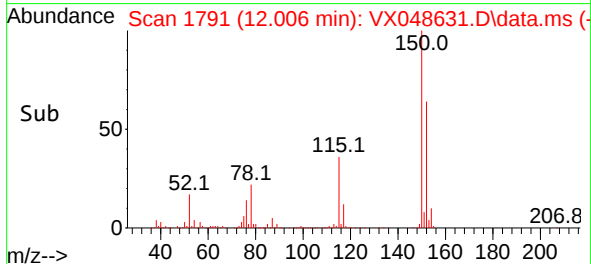
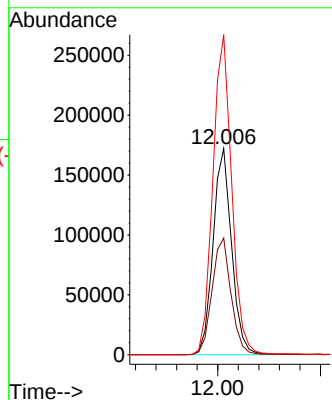
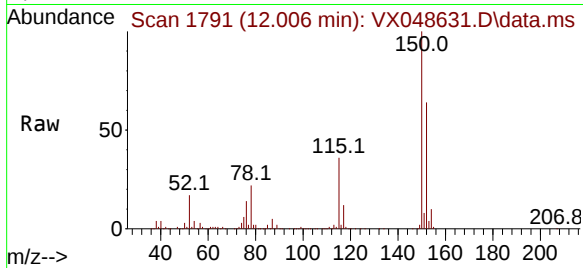




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048631.D
 Acq: 20 Nov 2025 12:46

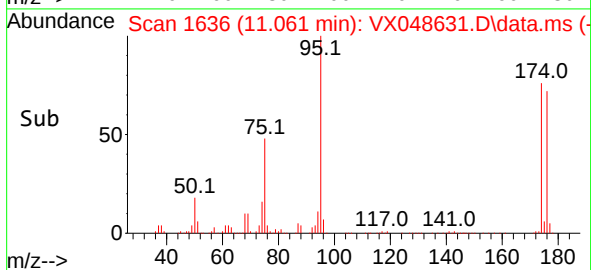
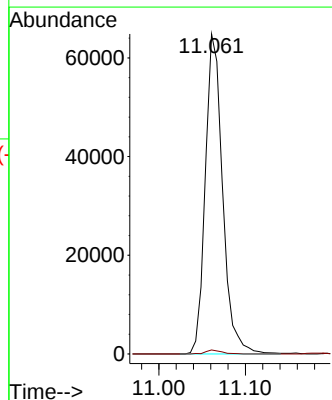
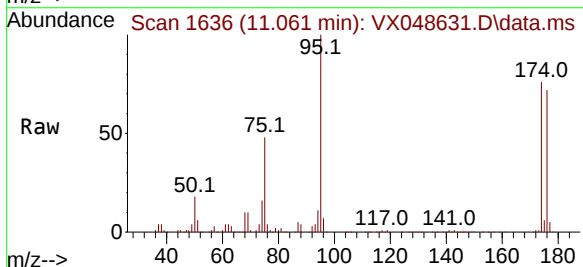
Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

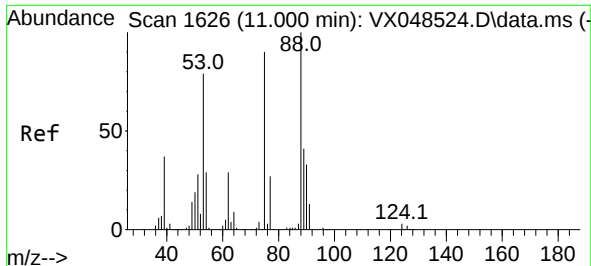
Tgt Ion:152 Resp: 214820
 Ion Ratio Lower Upper
 152 100
 115 58.2 39.2 117.6
 150 158.5 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 17.416 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048631.D
 Acq: 20 Nov 2025 12:46

Tgt Ion: 75 Resp: 90135
 Ion Ratio Lower Upper
 75 100
 77 1.1 24.3 72.8#

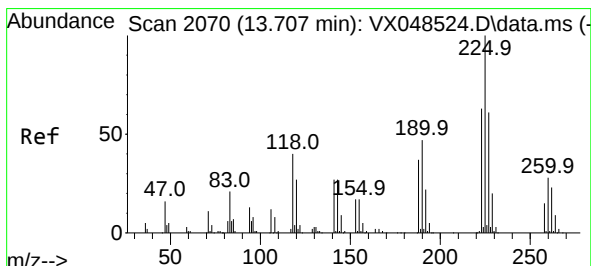
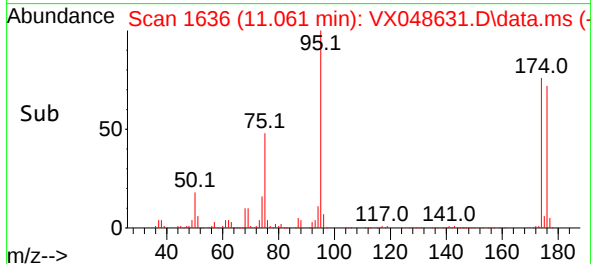
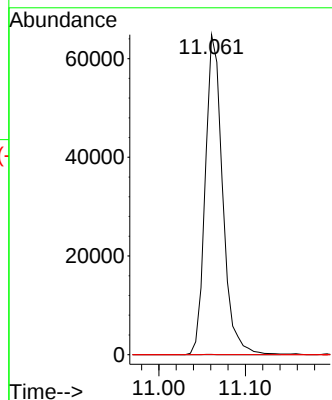
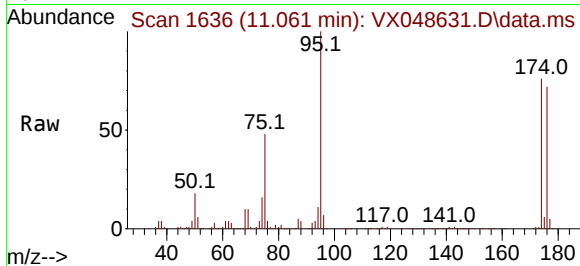




#81
trans-1,4-Dichloro-2-butene
Concen: 49.816 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
IBLK

Tgt Ion: 75 Resp: 90135
Ion Ratio Lower Upper
75 100
53 0.0 72.4 108.6#
89 0.0 43.6 65.4#



#94
Hexachlorobutadiene
Concen: 0.294 ug/l
RT: 13.713 min Scan# 2071
Delta R.T. 0.006 min
Lab File: VX048631.D
Acq: 20 Nov 2025 12:46

Tgt Ion: 225 Resp: 592
Ion Ratio Lower Upper
225 100
223 48.0 30.6 92.0
227 57.1 32.5 97.4

