

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100925\
 Data File : VX048073.D
 Acq On : 09 Oct 2025 09:35
 Operator : JC/MD
 Sample : VX1009MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1009MBL01

Quant Time: Oct 10 01:17:00 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)

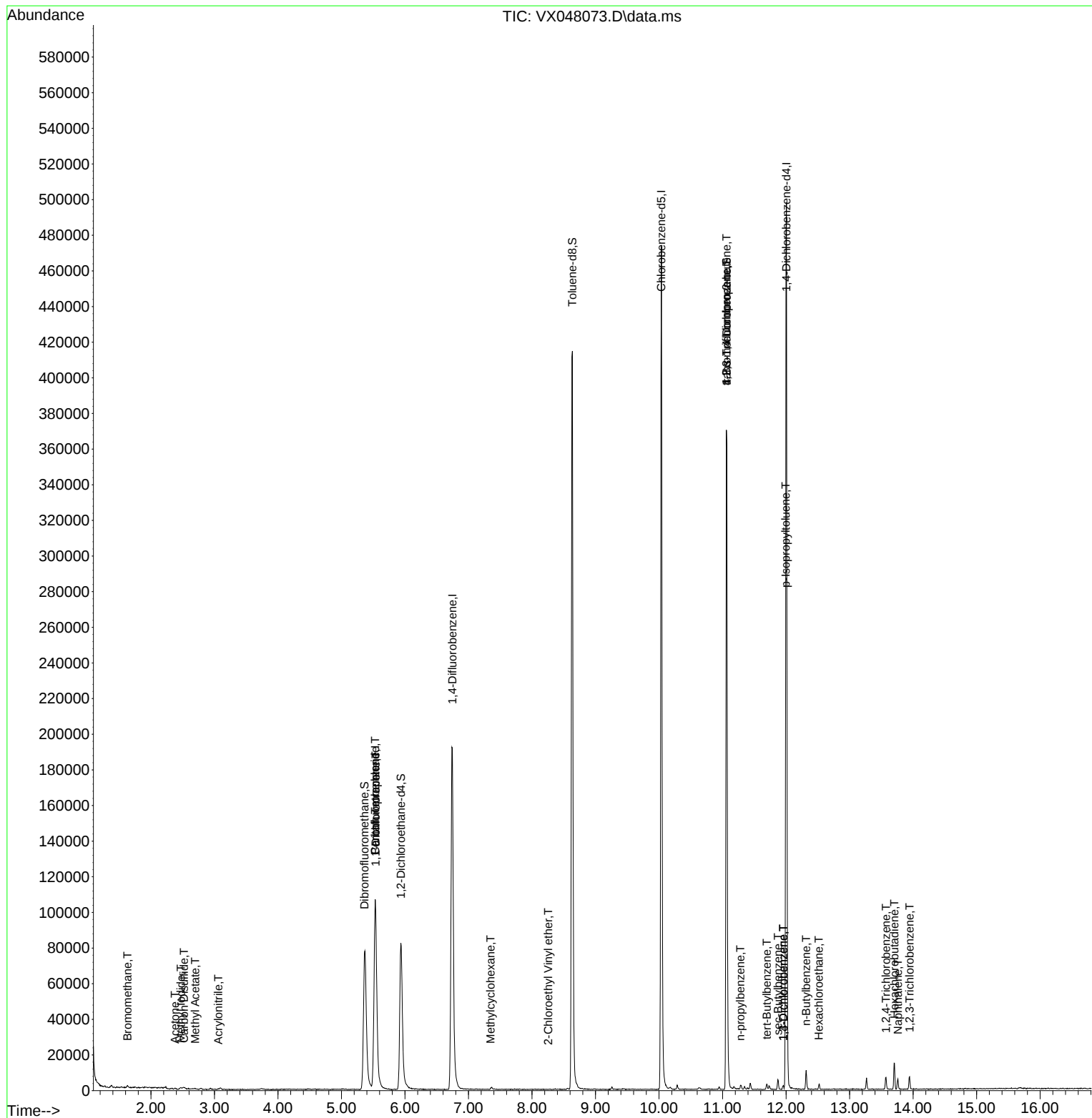
Internal Standards						
1) Pentafluorobenzene	5.531	168	103678	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	211557	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	217295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	105022	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	92036	55.770	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.540%			
35) Dibromofluoromethane	5.361	113	77845	54.866	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.740%			
50) Toluene-d8	8.635	98	262497	53.468	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.940%			
62) 4-Bromofluorobenzene	11.061	95	108741	58.362	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 116.720%			
Target Compounds						Qvalue
5) Bromomethane	1.630	94	511	0.583	ug/l	82
10) Methyl Iodide	2.471	142	1575	0.842	ug/l #	90
15) Acrylonitrile	3.062	53	206	0.303	ug/l #	77
16) Acetone	2.380	43	643	0.896	ug/l #	81
17) Carbon Disulfide	2.520	76	1295	0.384	ug/l #	76
18) Methyl Acetate	2.697	43	418	0.262	ug/l #	76
36) 1,1-Dichloropropene	5.538	75	9086	4.383	ug/l #	50
38) Carbon Tetrachloride	5.531	117	11738	5.211	ug/l #	17
39) Methylcyclohexane	7.348	83	660	0.280	ug/l #	54
58) 2-Chloroethyl Vinyl ether	8.257	63	20	7.910	ug/l #	47
76) 1,2,3-Trichloropropane	11.061	75	58302	27.419	ug/l #	39
78) n-propylbenzene	11.280	91	1997	0.212	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.061	75	58302	69.921	ug/l #	8
83) tert-Butylbenzene	11.695	119	1364	0.203	ug/l	86
85) sec-Butylbenzene	11.872	105	2920	0.366	ug/l	98
86) p-Isopropyltoluene	11.994	119	2641	0.391	ug/l	85
87) 1,3-Dichlorobenzene	11.957	146	893	0.244	ug/l	96
88) 1,4-Dichlorobenzene	11.957	146	893	0.238	ug/l	96
89) n-Butylbenzene	12.317	91	3933	0.629	ug/l	98
90) Hexachloroethane	12.518	117	461	0.389	ug/l	99
93) 1,2,4-Trichlorobenzene	13.573	180	1678	0.742	ug/l	90
94) Hexachlorobutadiene	13.707	225	2196	2.859	ug/l	95
95) Naphthalene	13.762	128	4051	0.588	ug/l #	92
96) 1,2,3-Trichlorobenzene	13.945	180	1854	0.881	ug/l	97

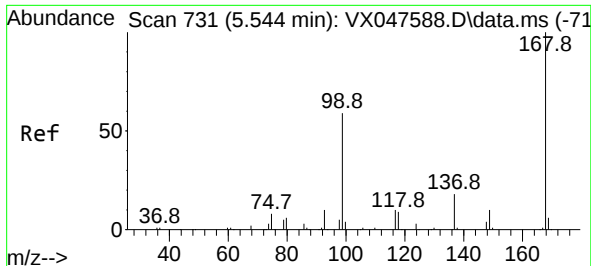
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

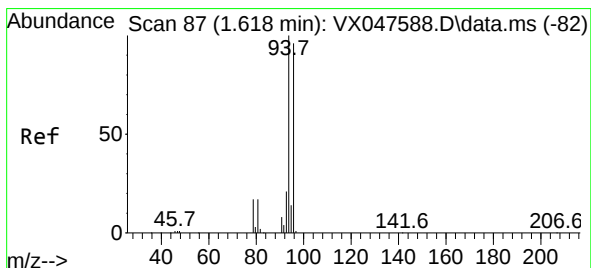
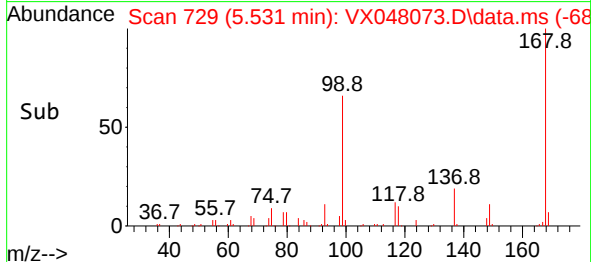
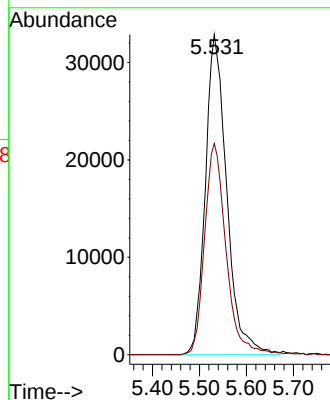
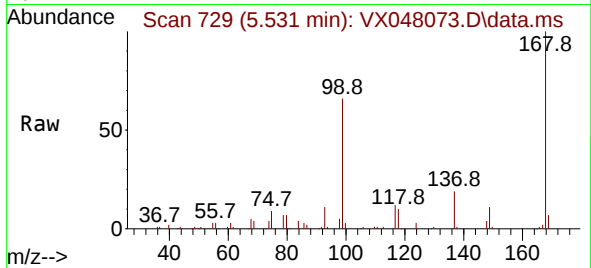




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

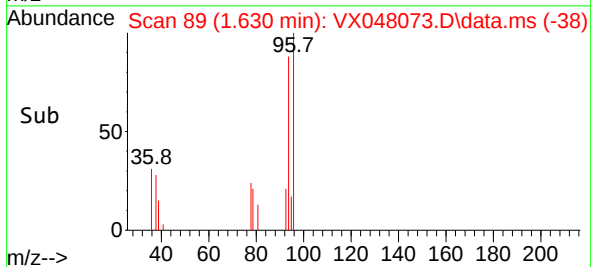
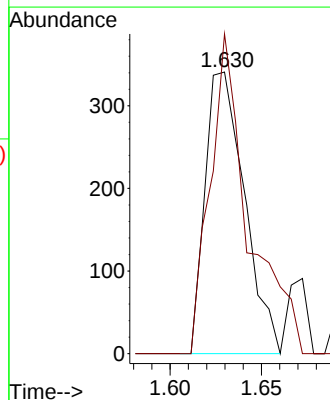
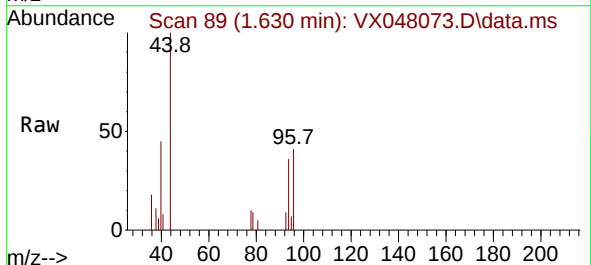
Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

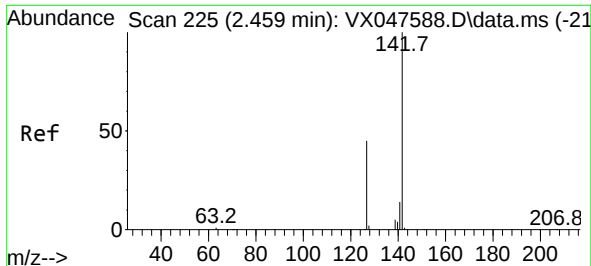
Tgt Ion:168 Resp: 103678
Ion Ratio Lower Upper
168 100
99 66.0 48.8 73.2



#5
Bromomethane
Concen: 0.583 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion: 94 Resp: 511
Ion Ratio Lower Upper
94 100
96 113.5 76.6 115.0

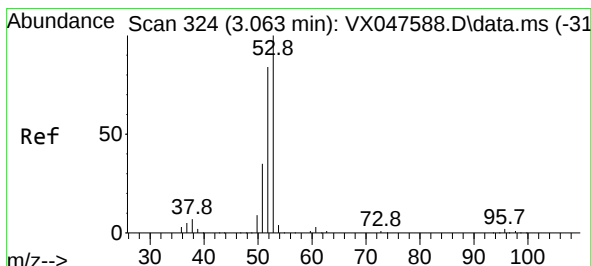
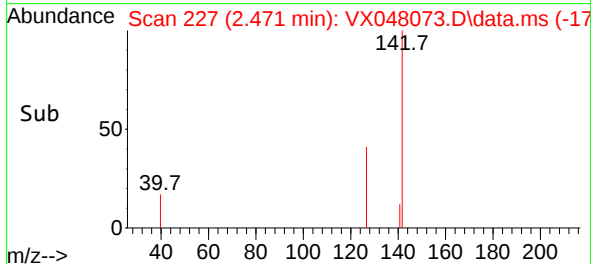
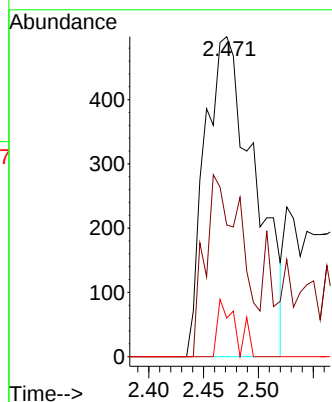
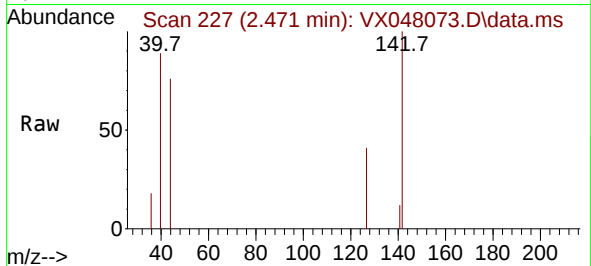




#10
Methyl Iodide
Concen: 0.842 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

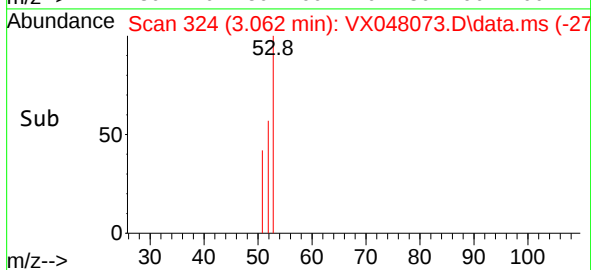
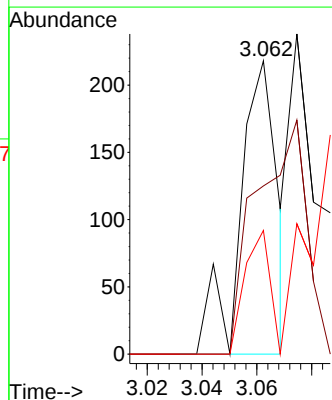
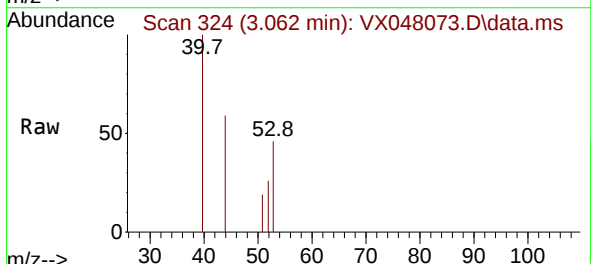
Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

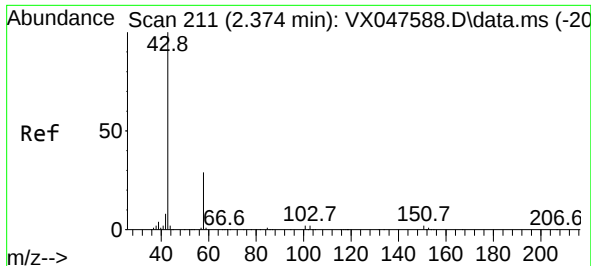
Tgt Ion:142 Resp: 1575
Ion Ratio Lower Upper
142 100
127 41.6 37.2 55.8
141 6.5 11.4 17.0#



#15
Acrylonitrile
Concen: 0.303 ug/l
RT: 3.062 min Scan# 324
Delta R.T. -0.000 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion: 53 Resp: 206
Ion Ratio Lower Upper
53 100
52 106.8 66.4 99.6#
51 28.6 29.5 44.3#

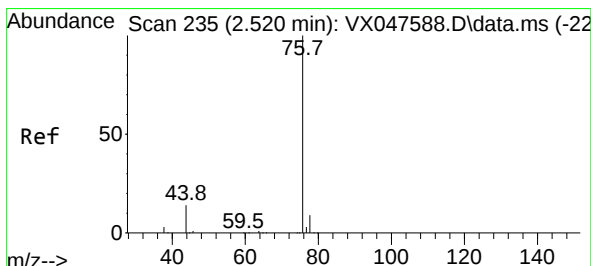
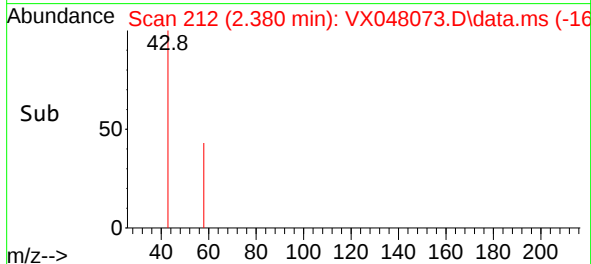
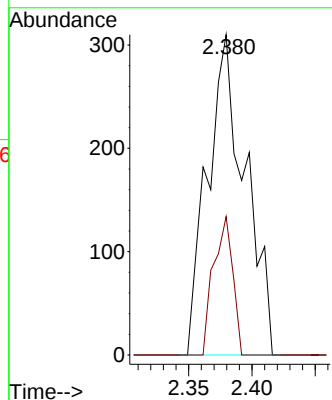
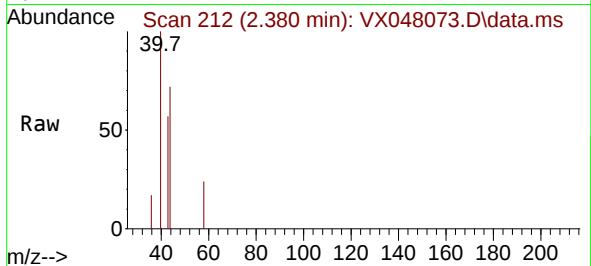




#16
Acetone
Concen: 0.896 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

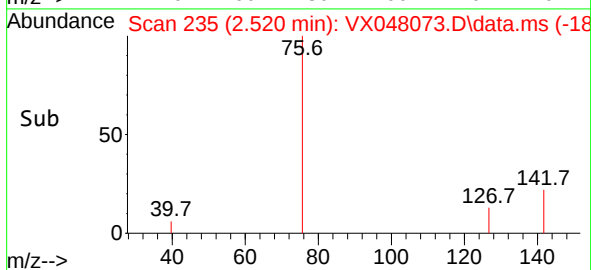
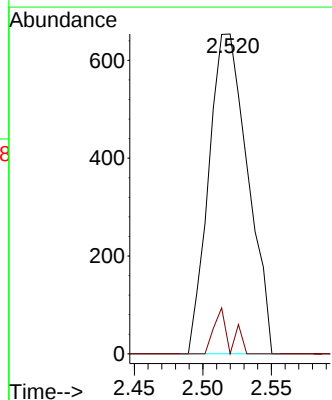
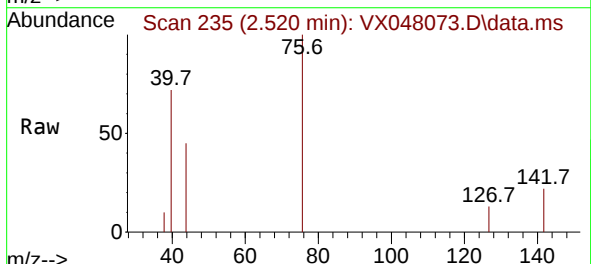
Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

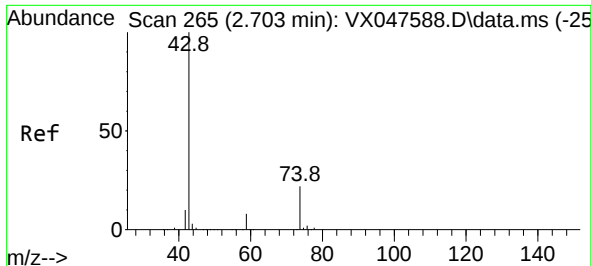
Tgt Ion: 43 Resp: 643
Ion Ratio Lower Upper
43 100
58 19.1 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.384 ug/l
RT: 2.520 min Scan# 235
Delta R.T. -0.000 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion: 76 Resp: 1295
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

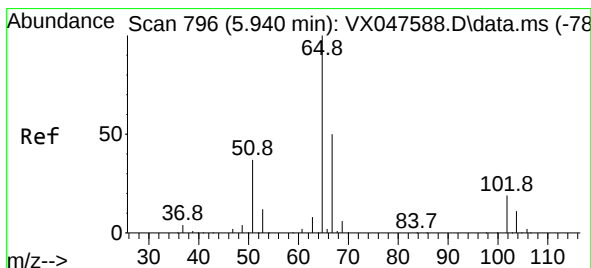
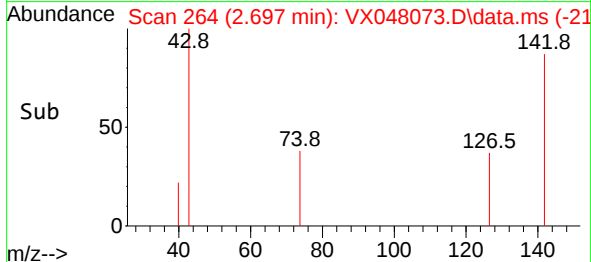
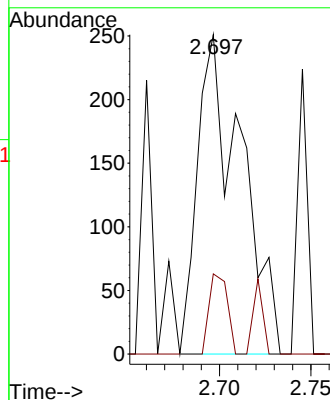
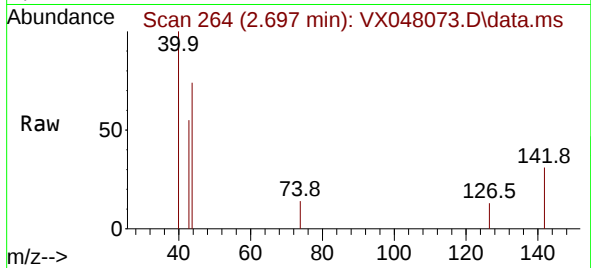




#18
Methyl Acetate
Concen: 0.262 ug/l
RT: 2.697 min Scan# 218
Delta R.T. -0.006 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

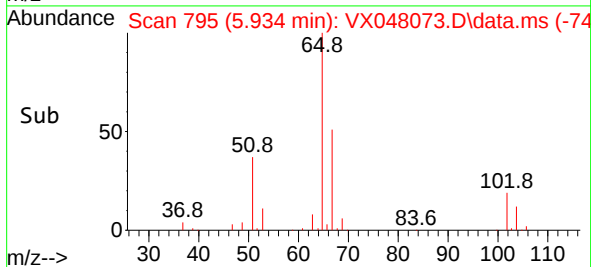
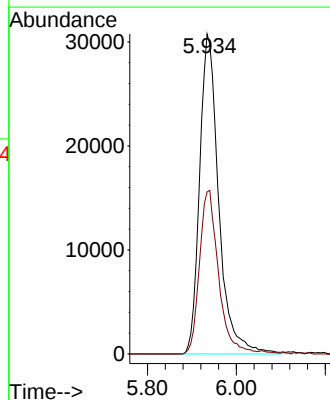
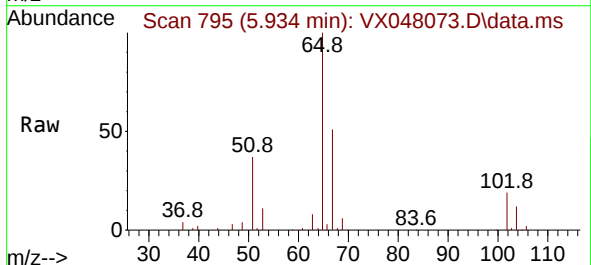
Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

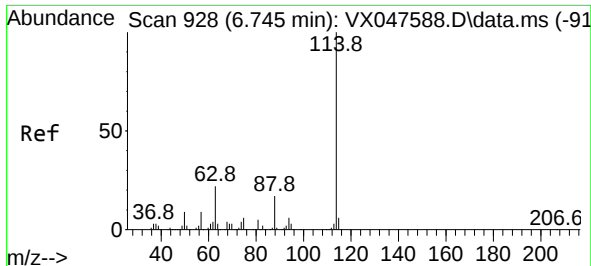
Tgt Ion: 43 Resp: 418
Ion Ratio Lower Upper
43 100
74 10.5 17.4 26.2#



#33
1,2-Dichloroethane-d4
Concen: 55.770 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion: 65 Resp: 92036
Ion Ratio Lower Upper
65 100
67 50.8 0.0 103.0

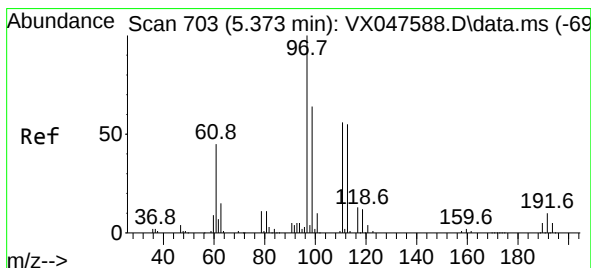
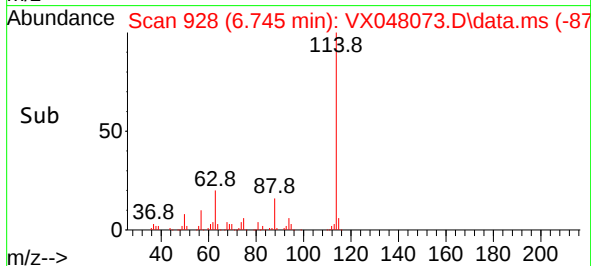
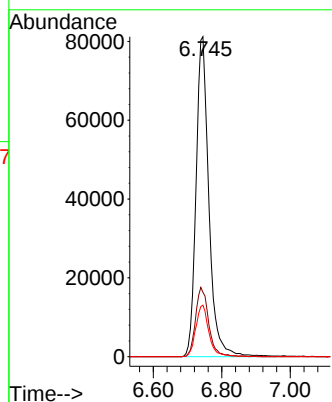
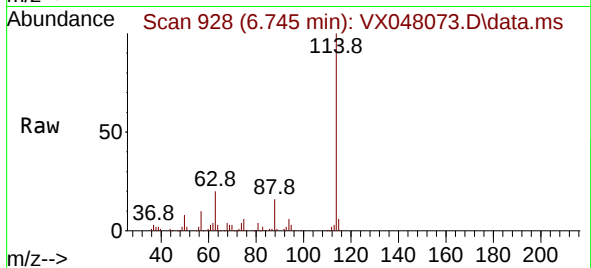




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

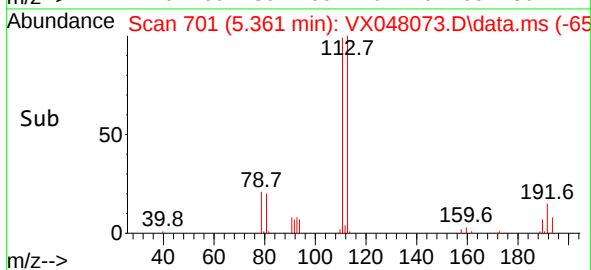
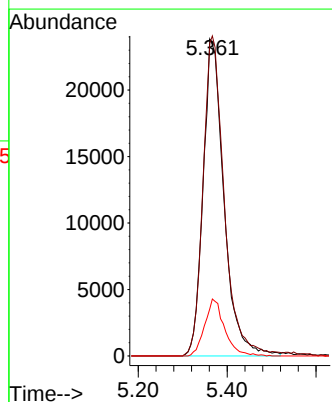
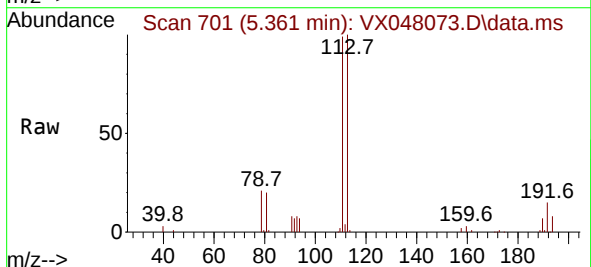
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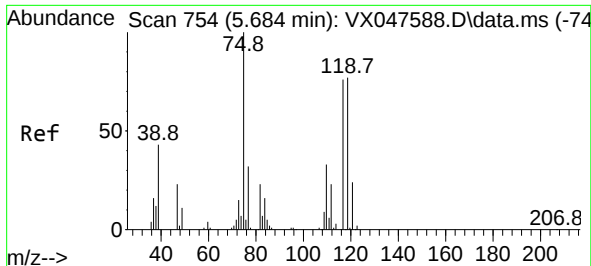
Tgt Ion:114 Resp: 211557
Ion Ratio Lower Upper
114 100
63 20.1 0.0 44.0
88 16.1 0.0 34.2



#35
Dibromofluoromethane
Concen: 54.866 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion:113 Resp: 77845
Ion Ratio Lower Upper
113 100
111 102.6 80.9 121.3
192 17.2 14.2 21.4

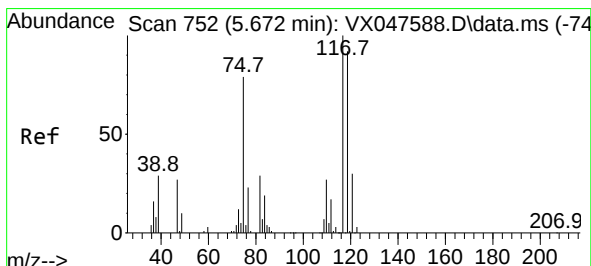
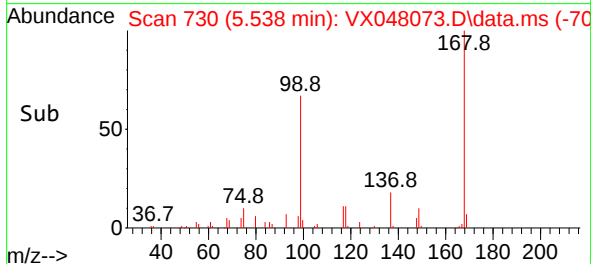
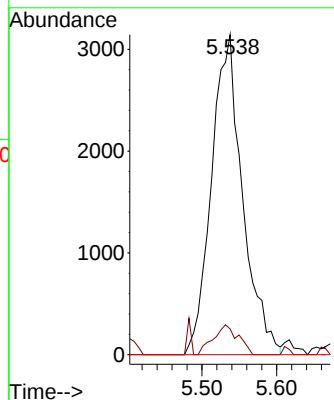
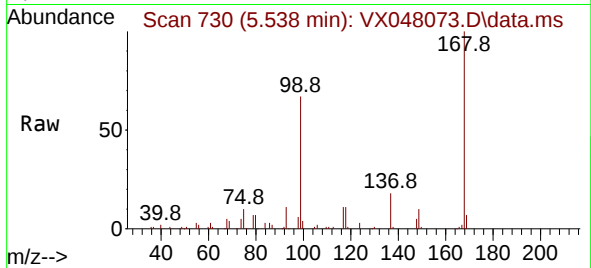




#36
1,1-Dichloropropene
Concen: 4.383 ug/l
RT: 5.538 min Scan# 719
Delta R.T. -0.146 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

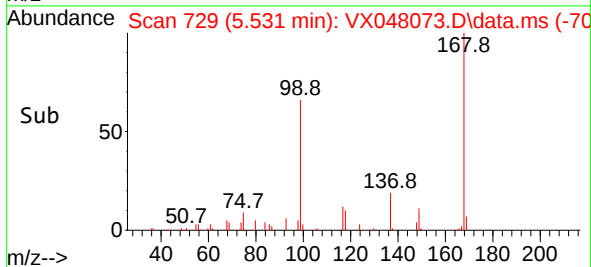
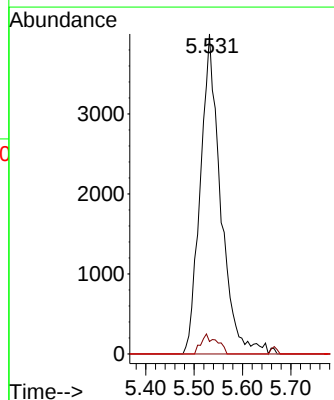
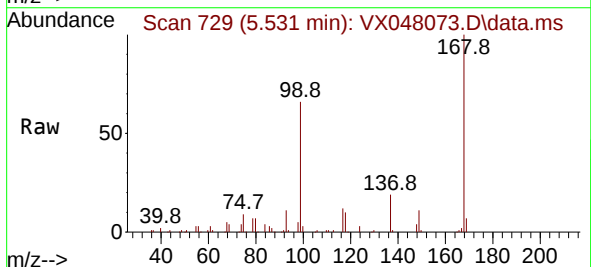
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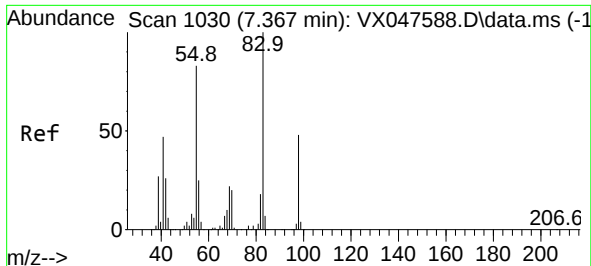
Tgt Ion: 75 Resp: 9086
Ion Ratio Lower Upper
75 100
110 7.5 16.7 50.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 5.211 ug/l
RT: 5.531 min Scan# 729
Delta R.T. -0.140 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion: 117 Resp: 11738
Ion Ratio Lower Upper
117 100
119 3.9 73.4 110.2#
121 0.0 23.8 35.6#





#39

Methylcyclohexane

Concen: 0.280 ug/l

RT: 7.348 min Scan# 1030

Delta R.T. -0.018 min

Lab File: VX048073.D

Acq: 09 Oct 2025 09:35

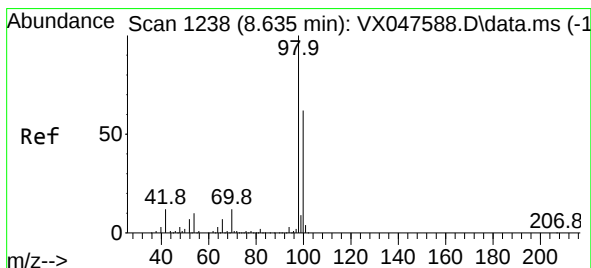
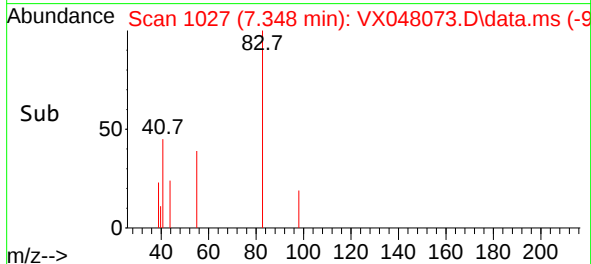
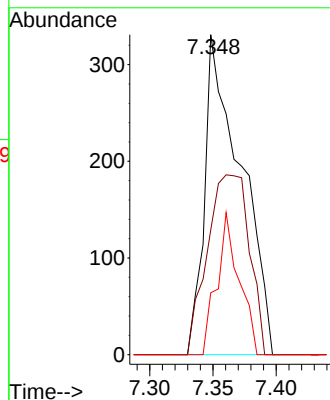
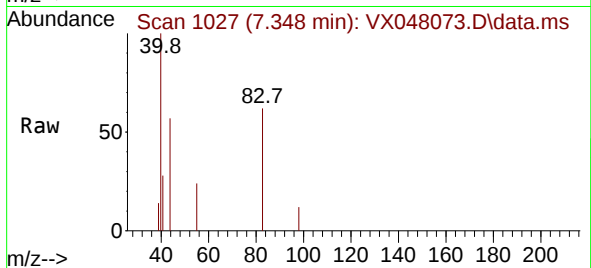
Instrument :

MSVOA_X

ClientSampleId :

VX1009MBL01

Tgt Ion:	83	Resp:	660
Ion	Ratio	Lower	Upper
83	100		
55	39.0	66.4	99.6#
98	19.3	38.1	57.1#



#50

Toluene-d8

Concen: 53.468 ug/l

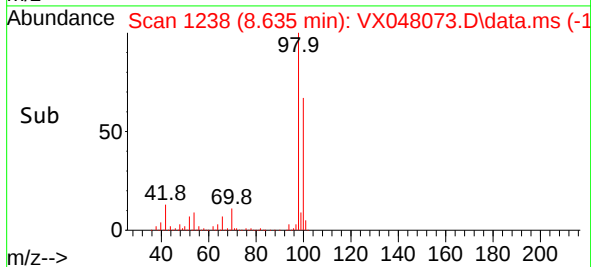
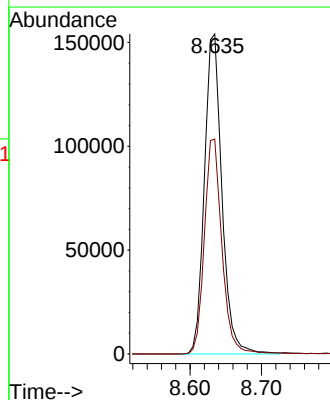
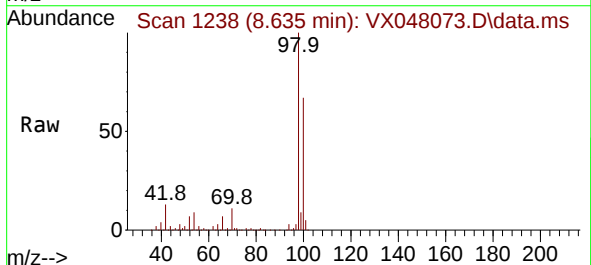
RT: 8.635 min Scan# 1238

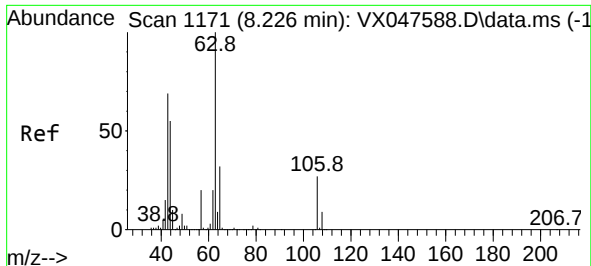
Delta R.T. -0.000 min

Lab File: VX048073.D

Acq: 09 Oct 2025 09:35

Tgt Ion:	98	Resp:	262497
Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

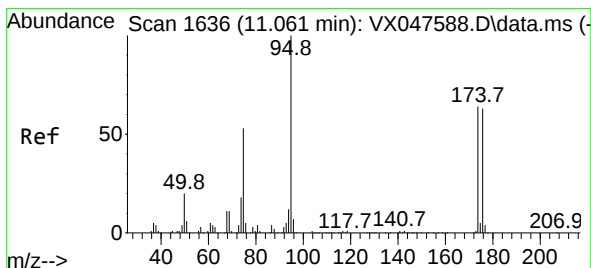
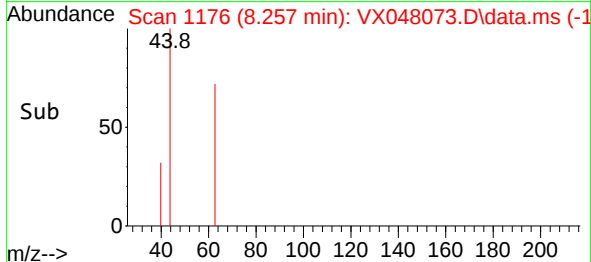
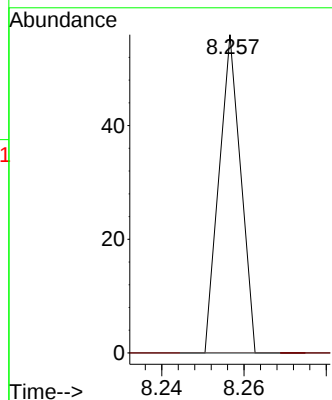
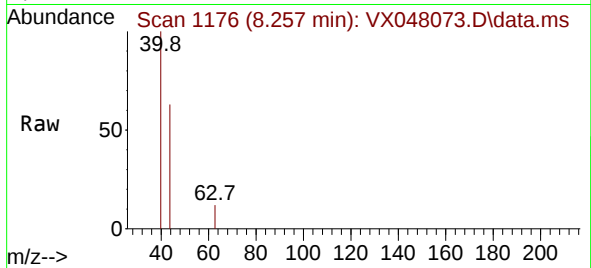




#58
2-Chloroethyl Vinyl ether
Concen: 7.910 ug/l
RT: 8.257 min Scan# 1176
Delta R.T. 0.031 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

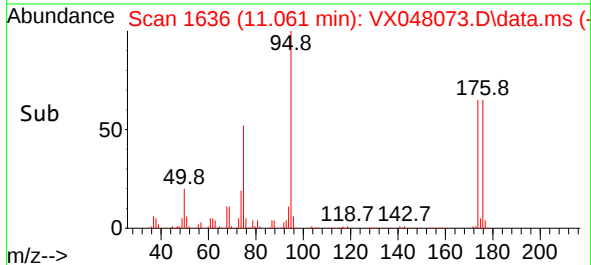
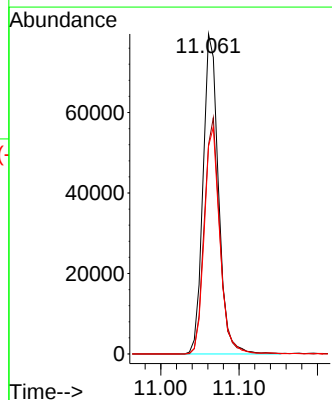
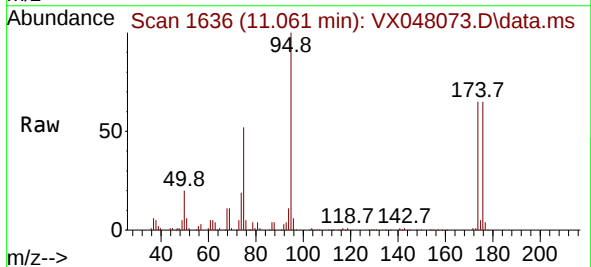
Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

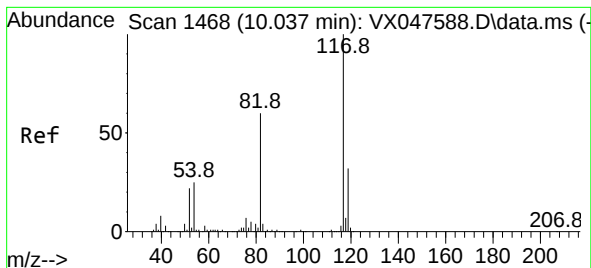
Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#



#62
4-Bromofluorobenzene
Concen: 58.362 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion: 95 Resp: 108741
Ion Ratio Lower Upper
95 100
174 74.3 0.0 141.6
176 71.3 0.0 138.4

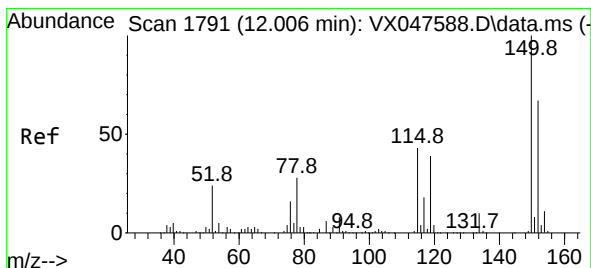
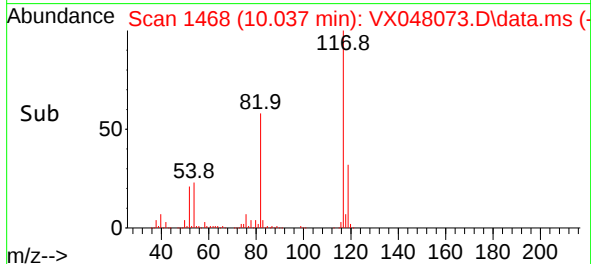
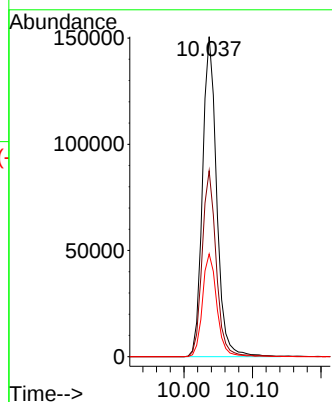
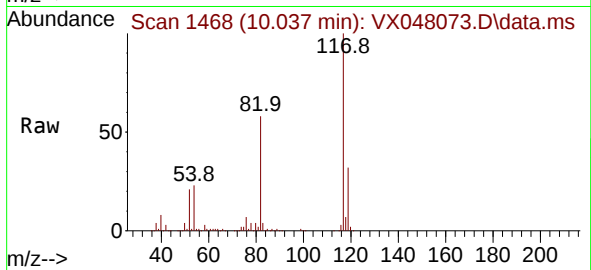




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

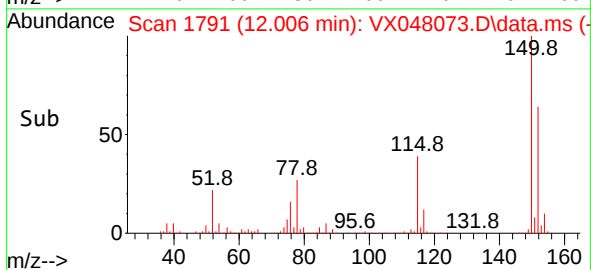
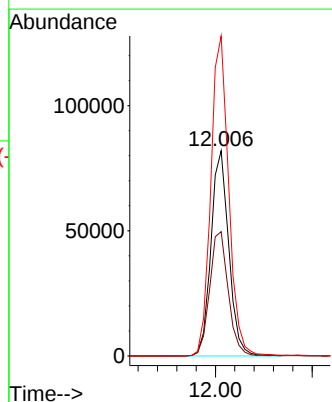
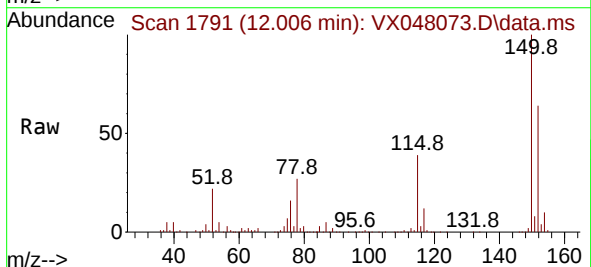
Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

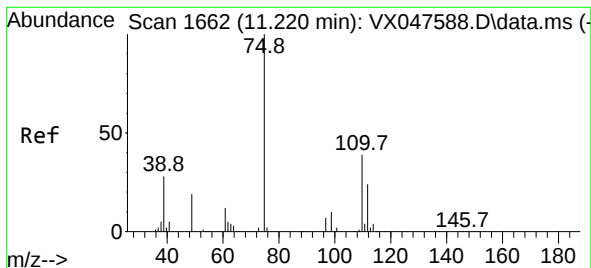
Tgt Ion:117 Resp: 217295
Ion Ratio Lower Upper
117 100
82 58.1 47.8 71.6
119 32.1 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion:152 Resp: 105022
Ion Ratio Lower Upper
152 100
115 63.4 44.9 134.5
150 156.7 0.0 352.0





#76

1,2,3-Trichloropropane

Concen: 27.419 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX048073.D

Acq: 09 Oct 2025 09:35

Instrument :

MSVOA_X

ClientSampleId :

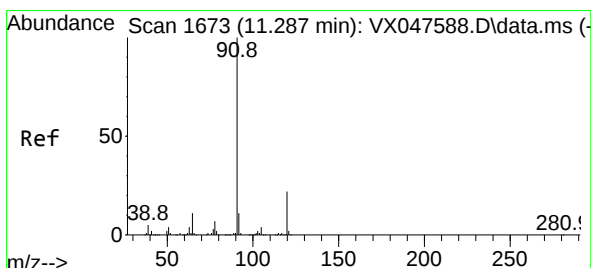
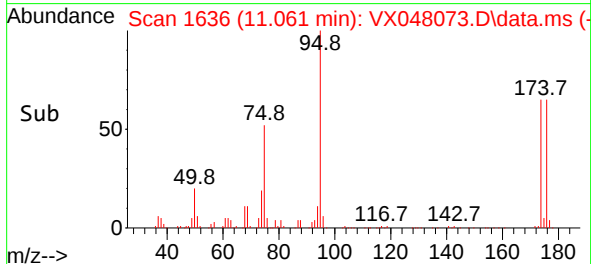
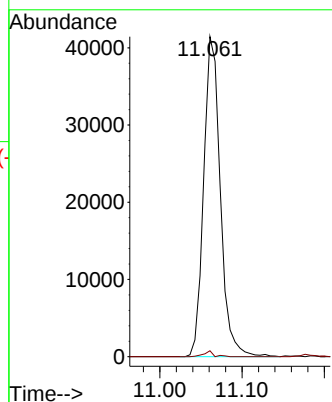
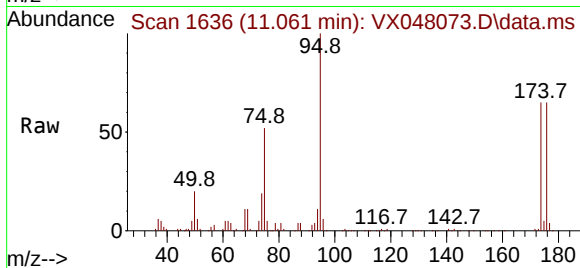
VX1009MBL01

Tgt Ion: 75 Resp: 58302

Ion Ratio Lower Upper

75 100

77 1.1 18.8 56.4#



#78

n-propylbenzene

Concen: 0.212 ug/l

RT: 11.280 min Scan# 1672

Delta R.T. -0.006 min

Lab File: VX048073.D

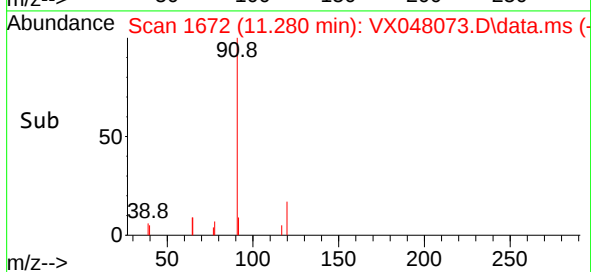
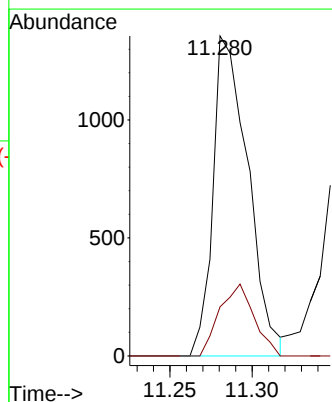
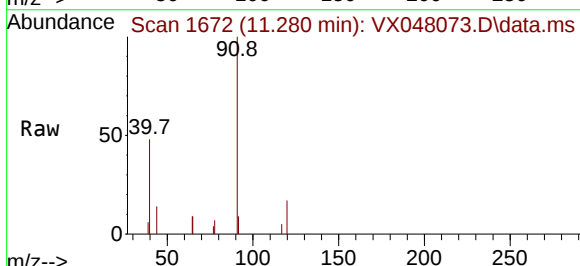
Acq: 09 Oct 2025 09:35

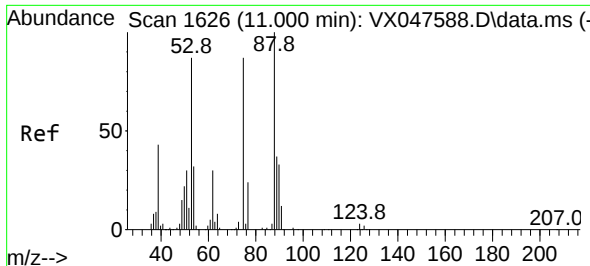
Tgt Ion: 91 Resp: 1997

Ion Ratio Lower Upper

91 100

120 22.2 11.1 33.1

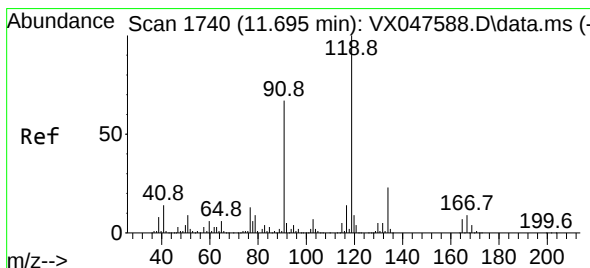
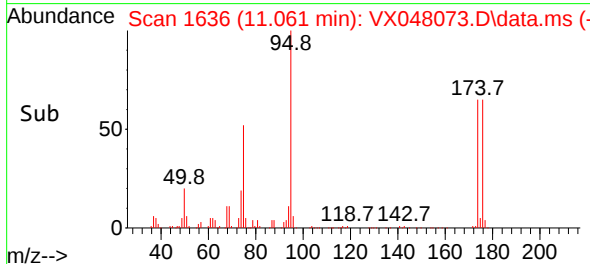
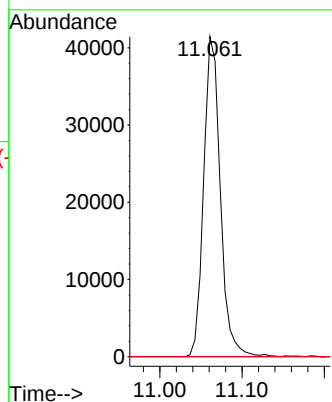
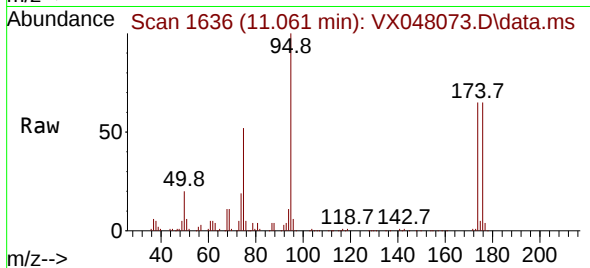




#81
trans-1,4-Dichloro-2-butene
Concen: 69.921 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

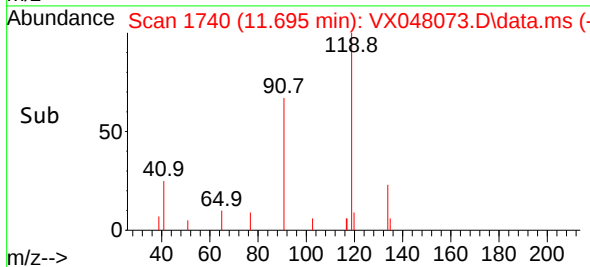
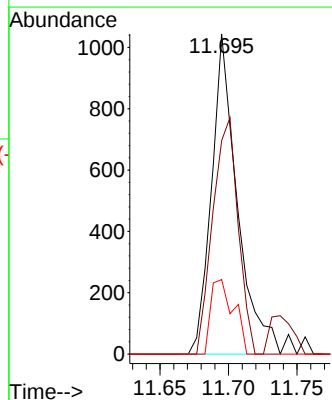
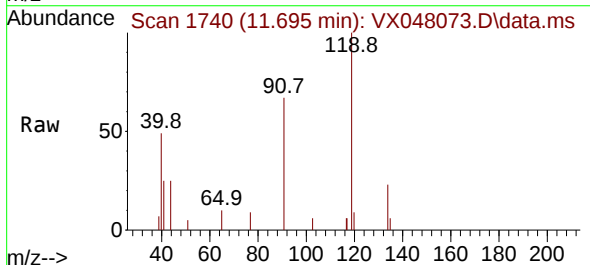
Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

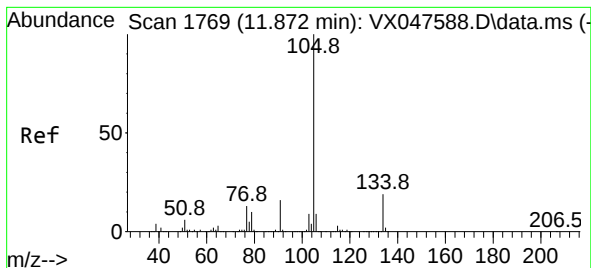
Tgt Ion: 75 Resp: 58302
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#83
tert-Butylbenzene
Concen: 0.203 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion: 119 Resp: 1364
Ion Ratio Lower Upper
119 100
91 72.4 29.6 88.8
134 20.6 11.0 33.0





#85

sec-Butylbenzene

Concen: 0.366 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX048073.D

Acq: 09 Oct 2025 09:35

Instrument :

MSVOA_X

ClientSampleId :

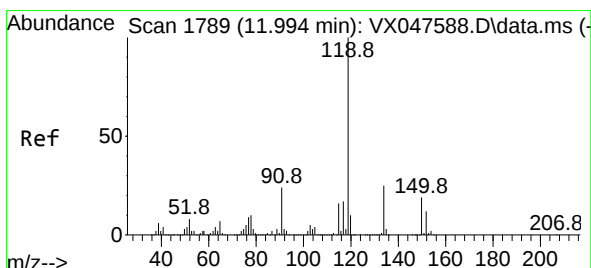
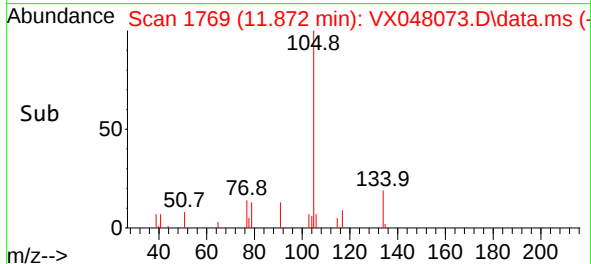
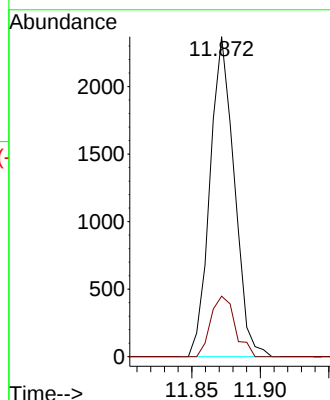
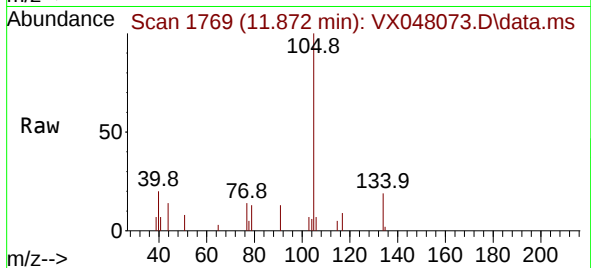
VX1009MBL01

Tgt Ion:105 Resp: 2920

Ion Ratio Lower Upper

105 100

134 18.9 9.8 29.5



#86

p-Isopropyltoluene

Concen: 0.391 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. -0.000 min

Lab File: VX048073.D

Acq: 09 Oct 2025 09:35

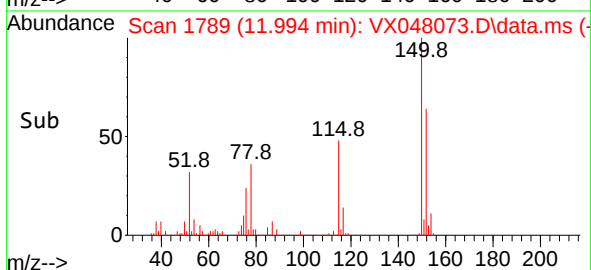
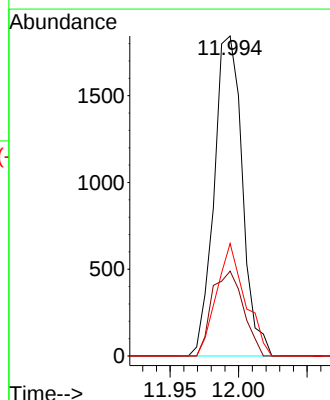
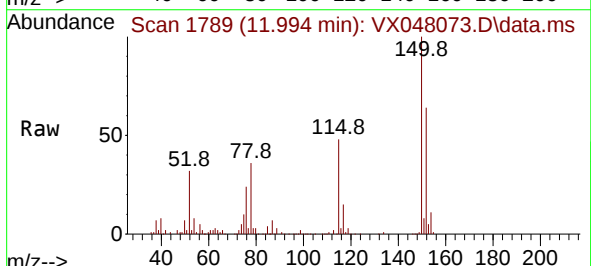
Tgt Ion:119 Resp: 2641

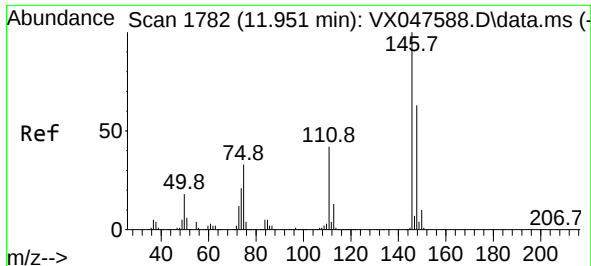
Ion Ratio Lower Upper

119 100

134 29.5 12.6 37.8

91 35.7 12.6 37.6

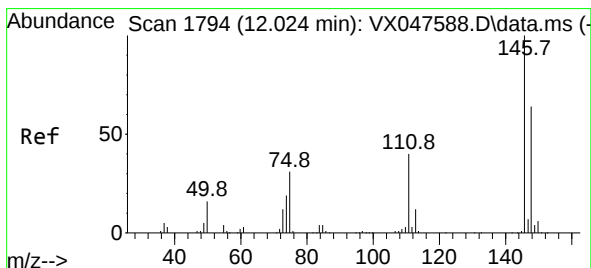
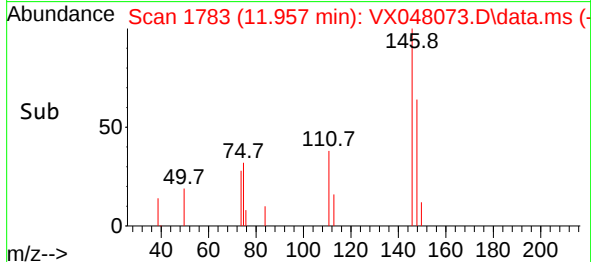
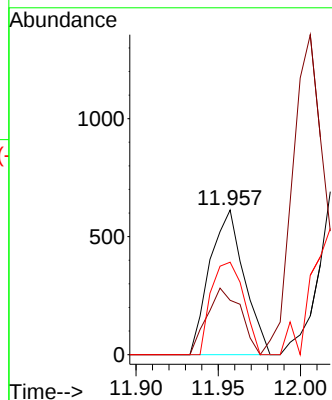
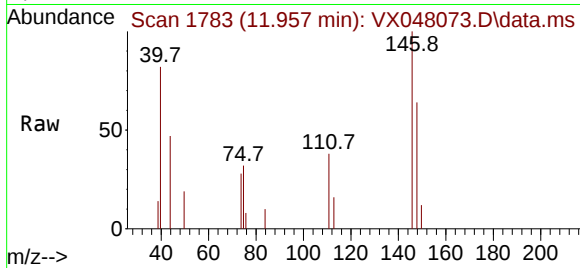




#87
1,3-Dichlorobenzene
Concen: 0.244 ug/l
RT: 11.957 min Scan# 1783
Delta R.T. 0.006 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

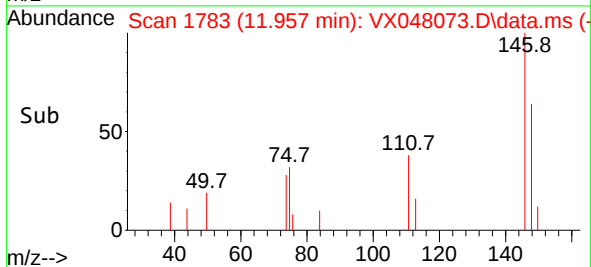
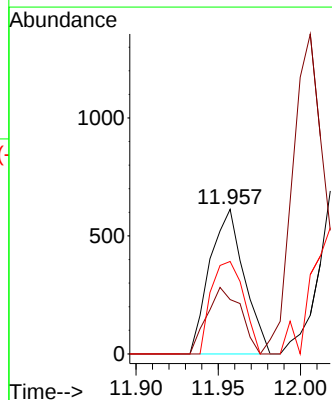
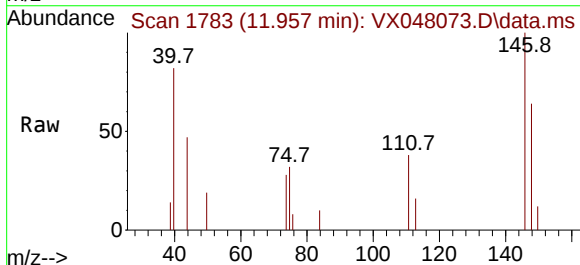
Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

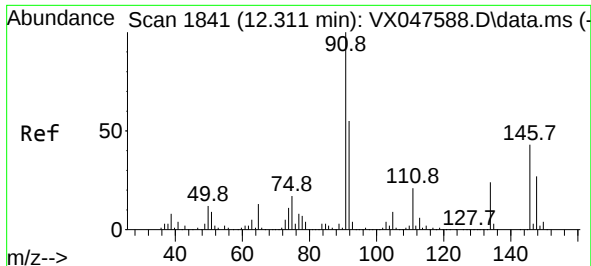
Tgt Ion:146 Resp: 893
Ion Ratio Lower Upper
146 100
111 44.6 21.5 64.5
148 60.4 32.0 96.0



#88
1,4-Dichlorobenzene
Concen: 0.238 ug/l
RT: 11.957 min Scan# 1783
Delta R.T. -0.067 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion:146 Resp: 893
Ion Ratio Lower Upper
146 100
111 44.6 20.8 62.4
148 60.4 31.7 95.1





#89

n-Butylbenzene

Concen: 0.629 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048073.D

Acq: 09 Oct 2025 09:35

Instrument :

MSVOA_X

ClientSampleId :

VX1009MBL01

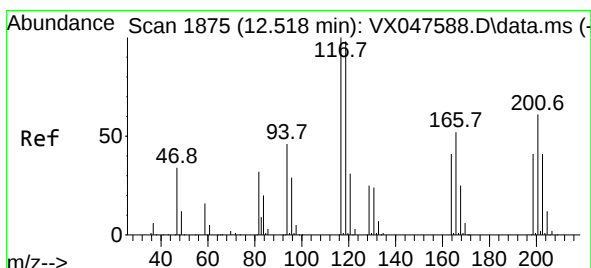
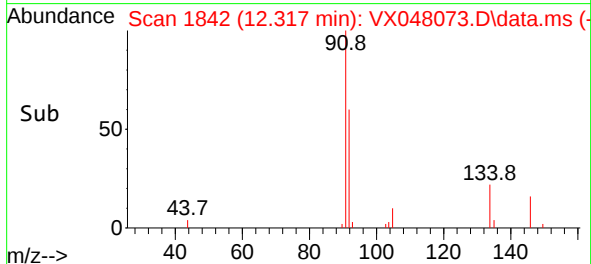
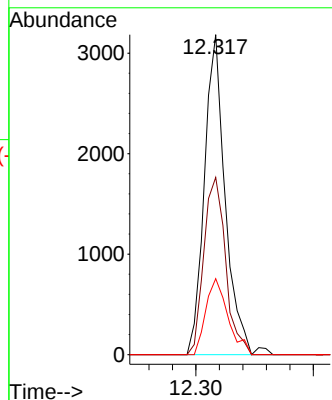
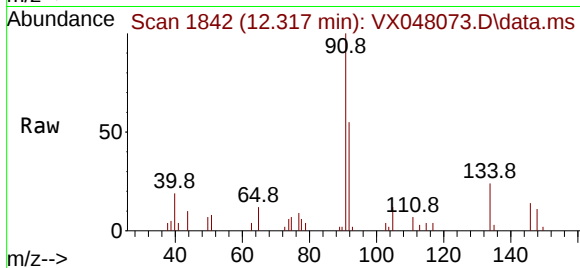
Tgt Ion: 91 Resp: 3933

Ion Ratio Lower Upper

91 100

92 57.6 27.6 82.7

134 25.1 12.6 37.8



#90

Hexachloroethane

Concen: 0.389 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048073.D

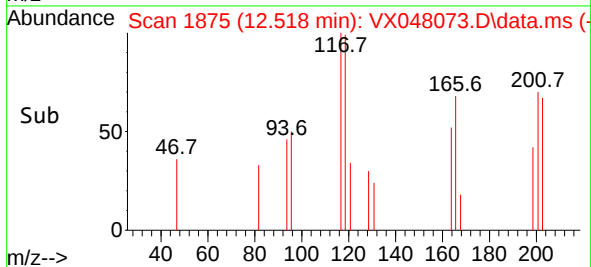
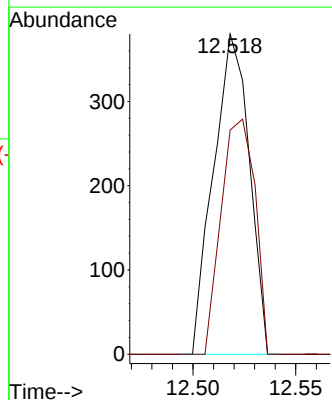
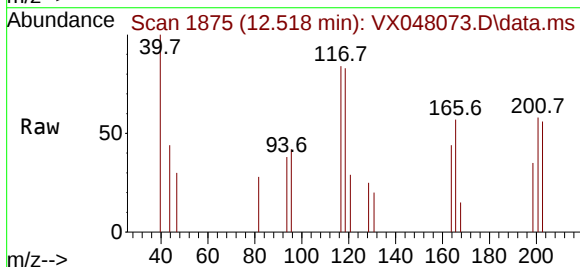
Acq: 09 Oct 2025 09:35

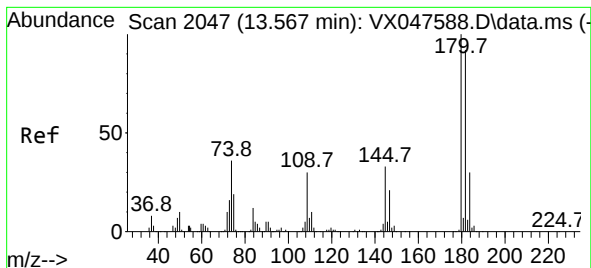
Tgt Ion: 117 Resp: 461

Ion Ratio Lower Upper

117 100

201 69.4 34.2 102.5





#93

1,2,4-Trichlorobenzene

Concen: 0.742 ug/l

RT: 13.573 min Scan# 2047

Delta R.T. 0.006 min

Lab File: VX048073.D

Acq: 09 Oct 2025 09:35

Instrument :

MSVOA_X

ClientSampleId :

VX1009MBL01

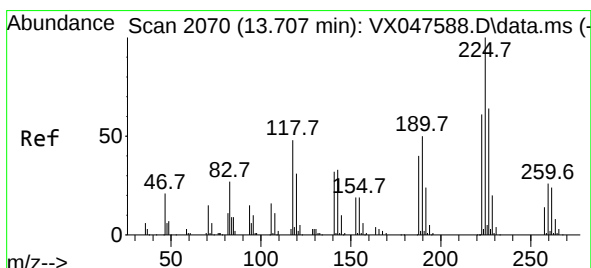
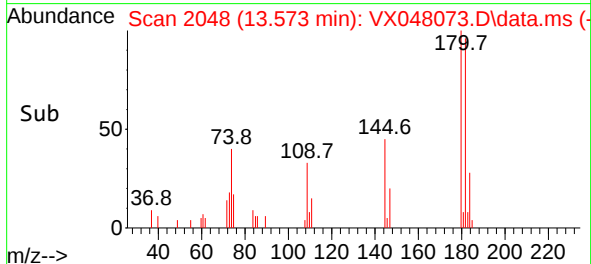
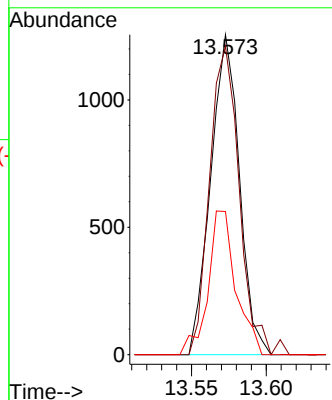
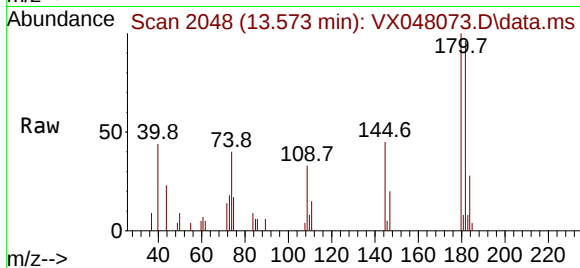
Tgt Ion:180 Resp: 1678

Ion Ratio Lower Upper

180 100

182 99.8 46.6 139.8

145 43.4 16.4 49.1



#94

Hexachlorobutadiene

Concen: 2.859 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX048073.D

Acq: 09 Oct 2025 09:35

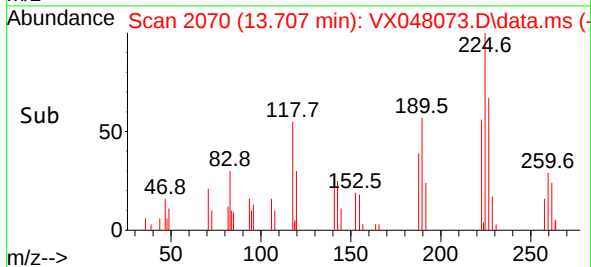
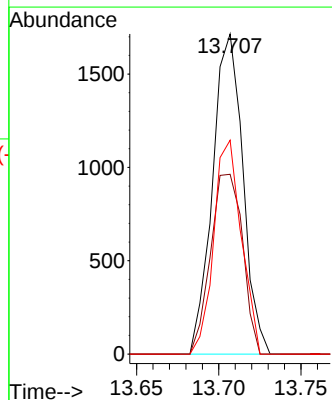
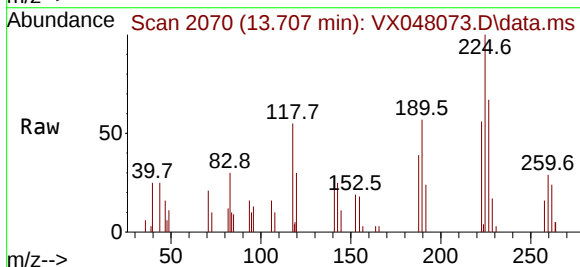
Tgt Ion:225 Resp: 2196

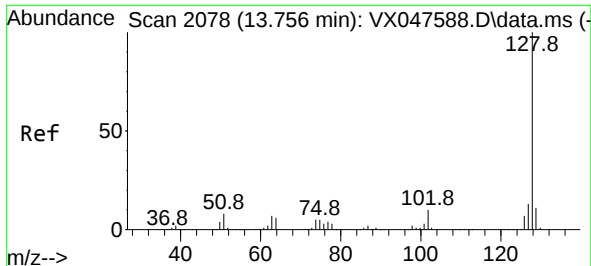
Ion Ratio Lower Upper

225 100

223 59.3 31.7 95.1

227 61.0 32.0 96.0

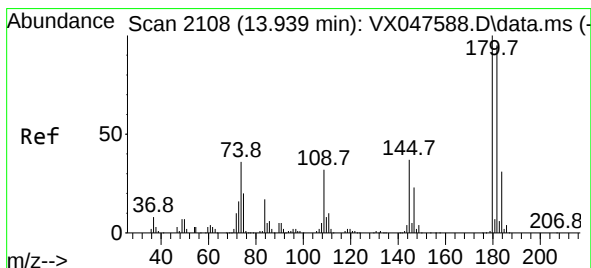
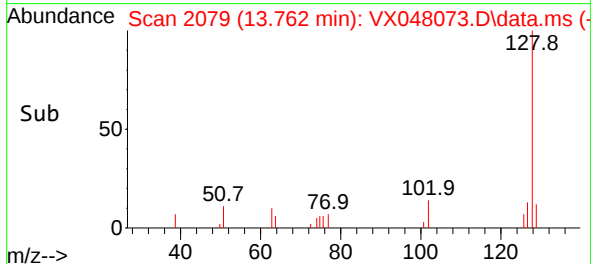
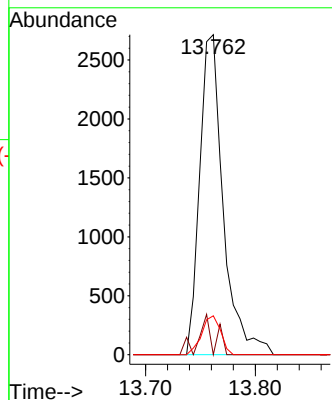
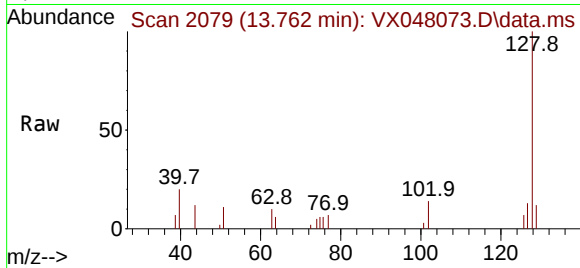




#95
Naphthalene
Concen: 0.588 ug/l
RT: 13.762 min Scan# 2078
Delta R.T. 0.006 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Instrument :
MSVOA_X
ClientSampleId :
VX1009MBL01

Tgt Ion:128 Resp: 4051
Ion Ratio Lower Upper
128 100
127 8.2 10.2 15.2#
129 9.8 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 0.881 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048073.D
Acq: 09 Oct 2025 09:35

Tgt Ion:180 Resp: 1854
Ion Ratio Lower Upper
180 100
182 95.4 47.6 142.8
145 29.5 17.9 53.7

