

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100925\
 Data File : VX048076.D
 Acq On : 09 Oct 2025 11:29
 Operator : JC/MD
 Sample : Q3318-04 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 3436

Quant Time: Oct 10 01:19:17 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)

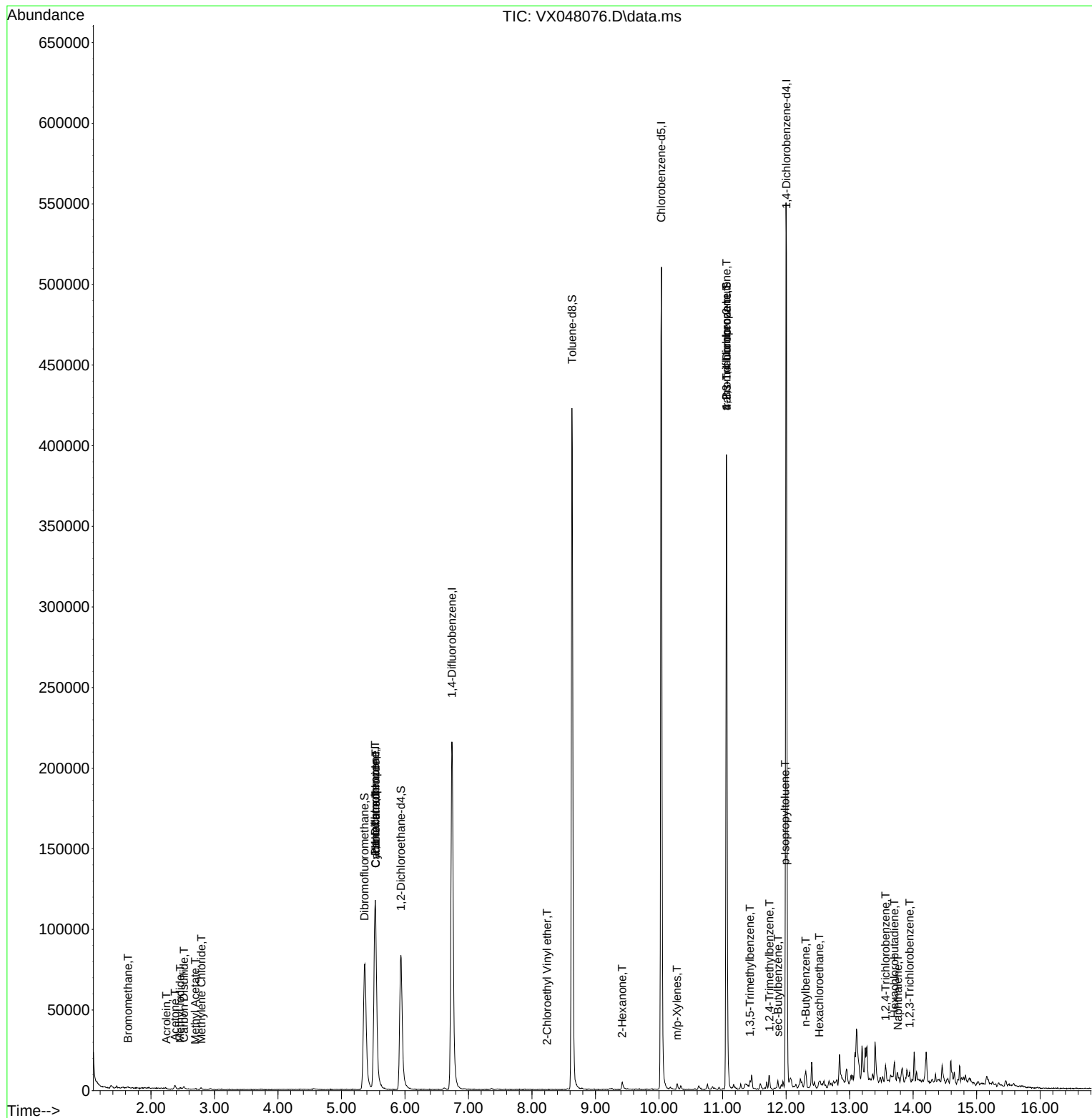
Internal Standards						
1) Pentafluorobenzene	5.531	168	117573	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	234000	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	239825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	117315	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	92254	49.295	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	98.600%		
35) Dibromofluoromethane	5.361	113	76915	49.011	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.020%		
50) Toluene-d8	8.628	98	262180	48.282	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.560%		
62) 4-Bromofluorobenzene	11.061	95	111449	54.079	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	108.160%		
Target Compounds					Qvalue	
5) Bromomethane	1.636	94	545	0.549	ug/l #	63
10) Methyl Iodide	2.459	142	1319	0.622	ug/l #	93
13) Acrolein	2.239	56	120	0.625	ug/l #	37
16) Acetone	2.380	43	3214	3.950	ug/l #	85
17) Carbon Disulfide	2.520	76	1262	0.330	ug/l #	76
18) Methyl Acetate	2.697	43	405	0.224	ug/l #	54
20) Methylene Chloride	2.794	84	533	0.309	ug/l #	62
31) Cyclohexane	5.538	56	2874	1.162	ug/l #	11
36) 1,1-Dichloropropene	5.531	75	9844	4.293	ug/l #	51
38) Carbon Tetrachloride	5.538	117	12961	5.202	ug/l #	17
58) 2-Chloroethyl Vinyl ether	8.238	63	20	7.908	ug/l #	47
59) 2-Hexanone	9.421	43	3447	2.150	ug/l	99
68) m/p-Xylenes	10.281	106	925	0.264	ug/l	96
76) 1,2,3-Trichloropropane	11.061	75	59966	25.246	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.433	105	1814	0.248	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.061	75	59966	64.381	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.738	105	3873	0.521	ug/l	99
85) sec-Butylbenzene	11.872	105	1951	0.219	ug/l	91
86) p-Isopropyltoluene	11.988	119	1750	0.232	ug/l #	69
89) n-Butylbenzene	12.311	91	3486	0.499	ug/l #	77
90) Hexachloroethane	12.524	117	474	0.358	ug/l #	40
93) 1,2,4-Trichlorobenzene	13.567	180	1324	0.524	ug/l	92
94) Hexachlorobutadiene	13.707	225	1175	1.369	ug/l	97
95) Naphthalene	13.762	128	3745	0.487	ug/l #	90
96) 1,2,3-Trichlorobenzene	13.945	180	1291	0.549	ug/l #	86

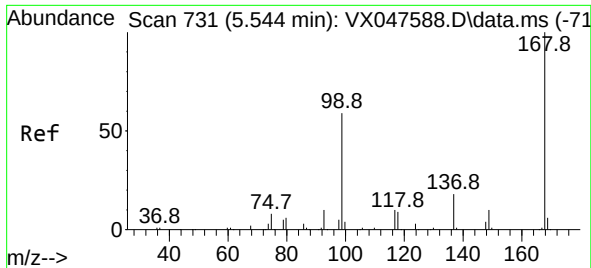
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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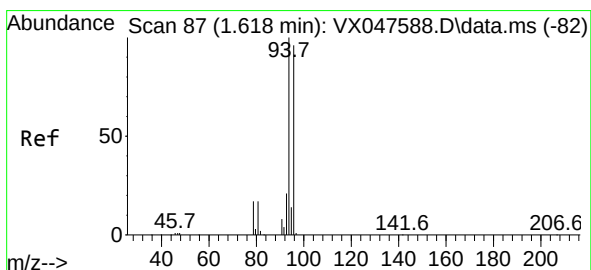
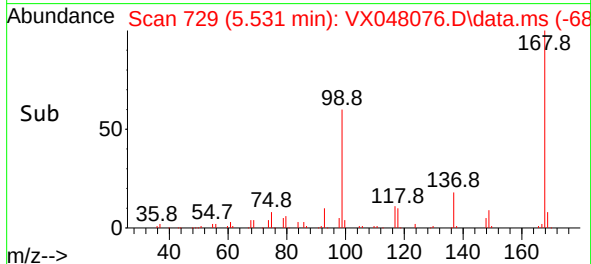
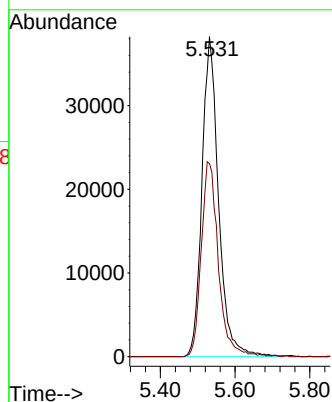
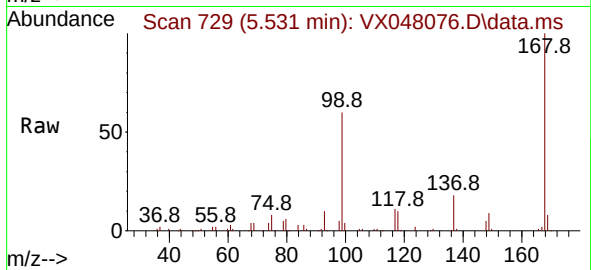




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

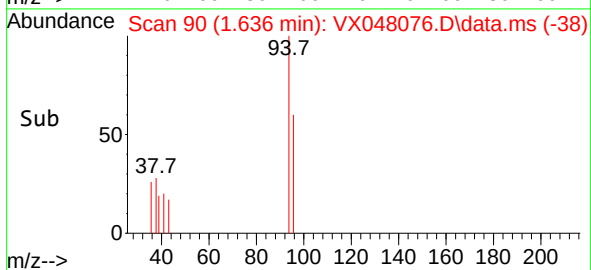
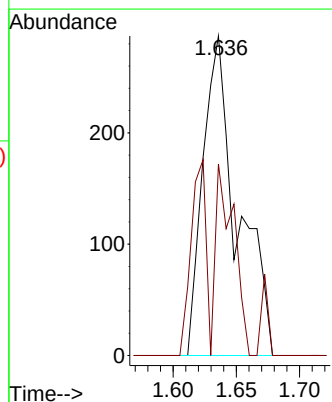
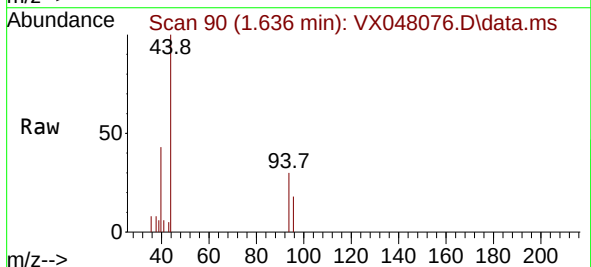
Instrument :
MSVOA_X
ClientSampleId :
3436

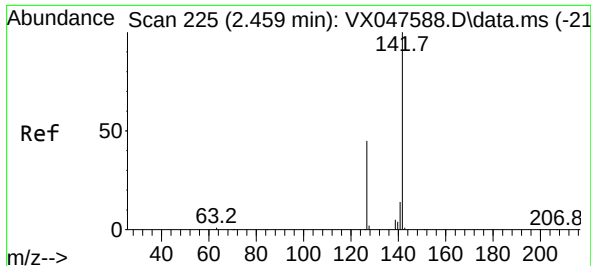
Tgt Ion:168 Resp: 117573
Ion Ratio Lower Upper
168 100
99 60.3 48.8 73.2



#5
Bromomethane
Concen: 0.549 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.018 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

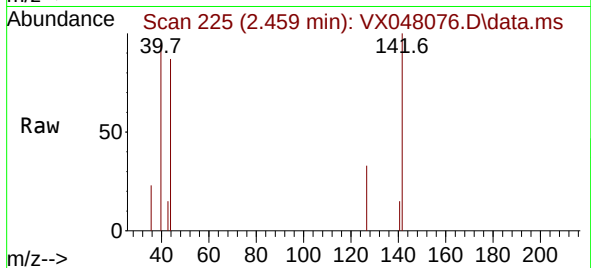
Tgt Ion: 94 Resp: 545
Ion Ratio Lower Upper
94 100
96 59.9 76.6 115.0#



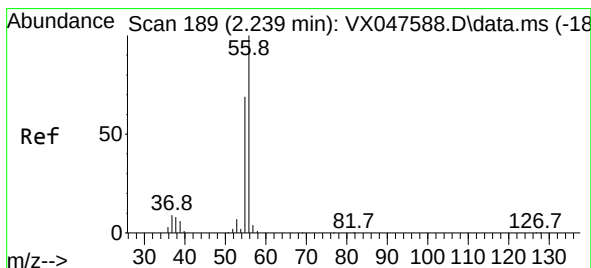
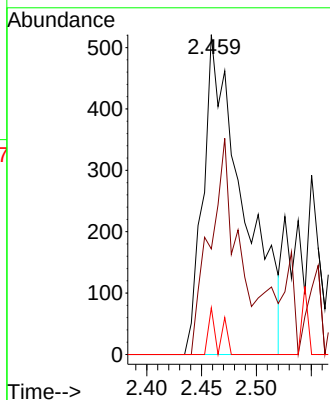
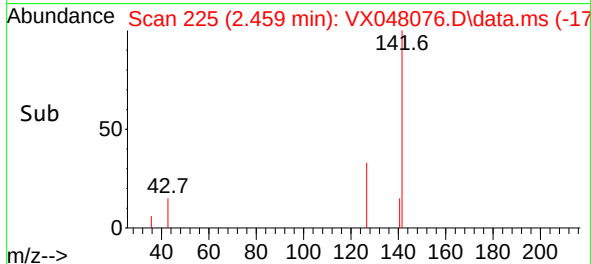


#10
Methyl Iodide
Concen: 0.622 ug/l
RT: 2.459 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

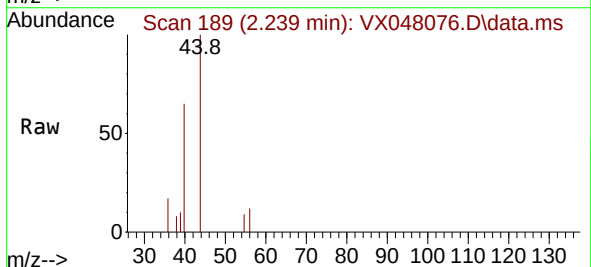
Instrument :
MSVOA_X
ClientSampleId :
3436



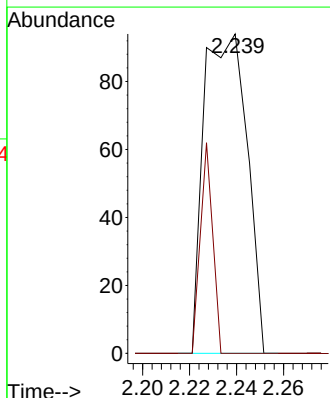
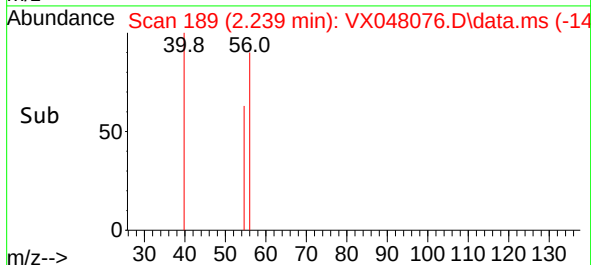
Tgt Ion:142 Resp: 1319
Ion Ratio Lower Upper
142 100
127 45.3 37.2 55.8
141 3.8 11.4 17.0#

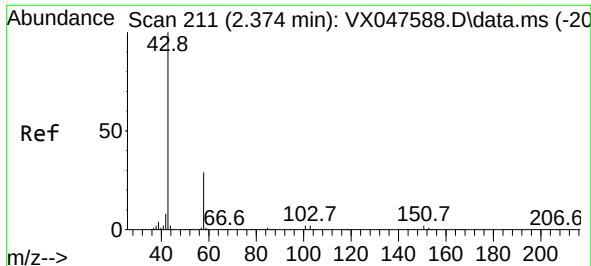


#13
Acrolein
Concen: 0.625 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29



Tgt Ion: 56 Resp: 120
Ion Ratio Lower Upper
56 100
55 19.2 57.2 85.8#

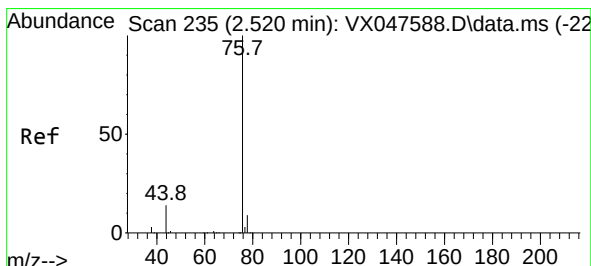
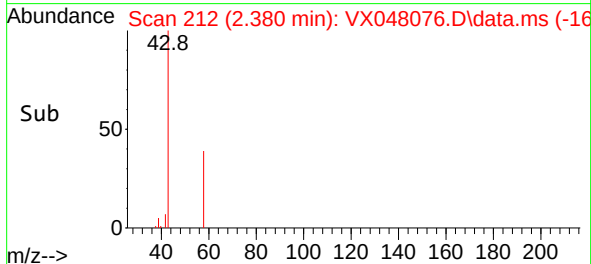
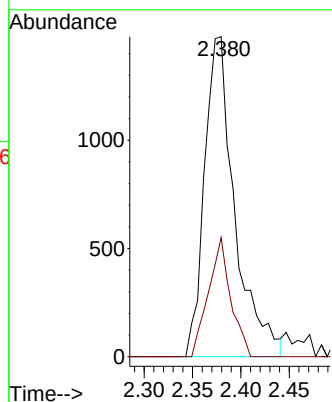
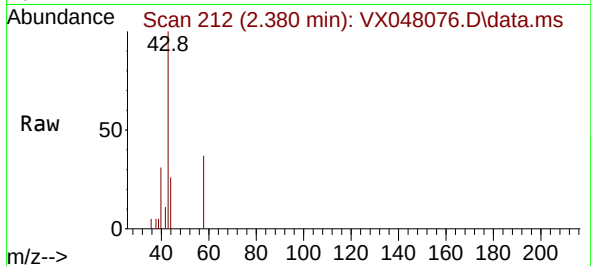




#16
Acetone
Concen: 3.950 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

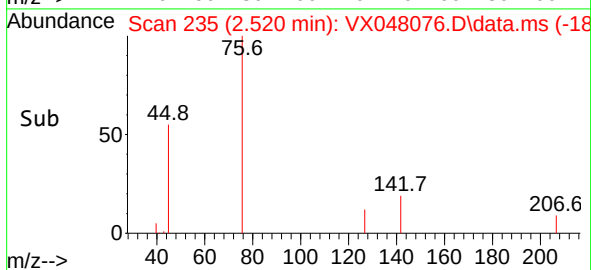
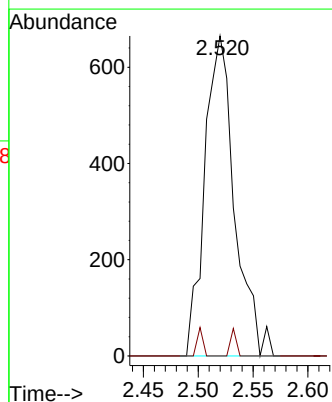
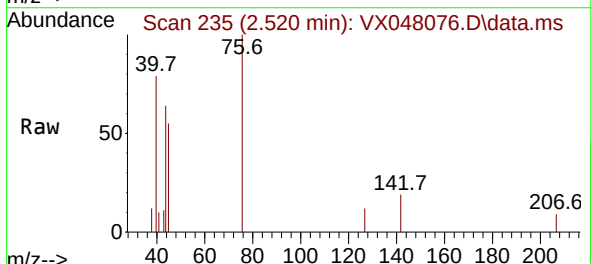
Instrument :
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3436

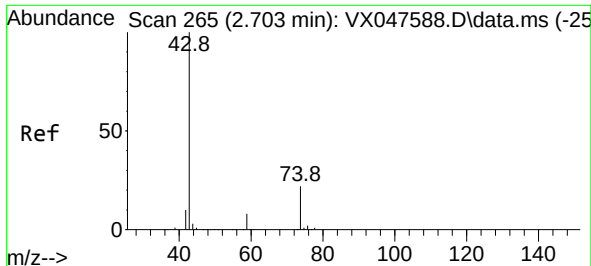
Tgt Ion: 43 Resp: 3214
Ion Ratio Lower Upper
43 100
58 37.2 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.330 ug/l
RT: 2.520 min Scan# 235
Delta R.T. -0.000 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

Tgt Ion: 76 Resp: 1262
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

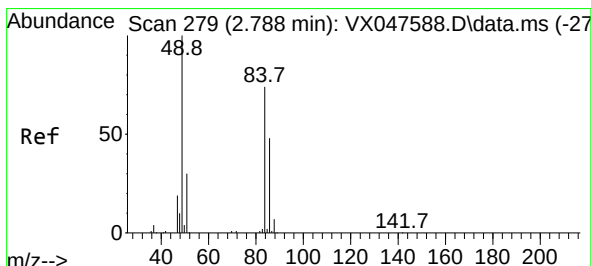
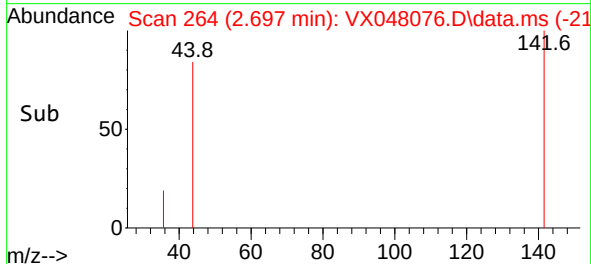
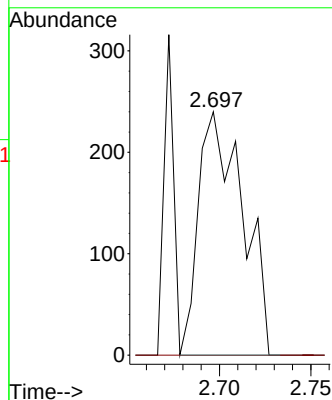
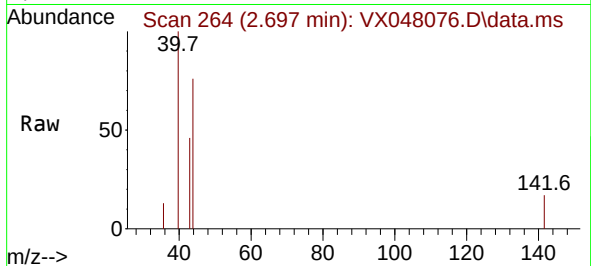




#18
Methyl Acetate
Concen: 0.224 ug/l
RT: 2.697 min Scan# 20
Delta R.T. -0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

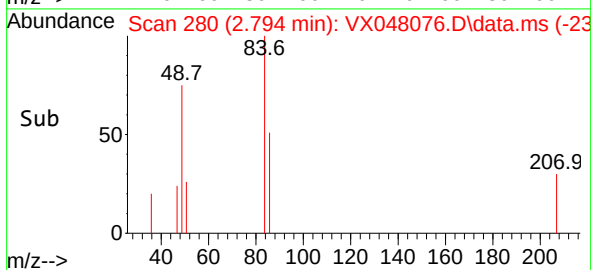
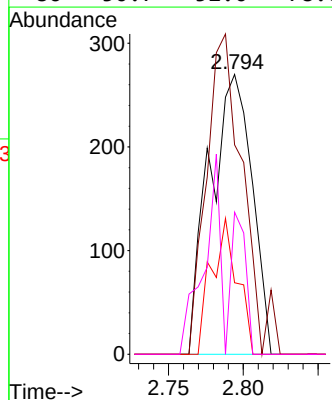
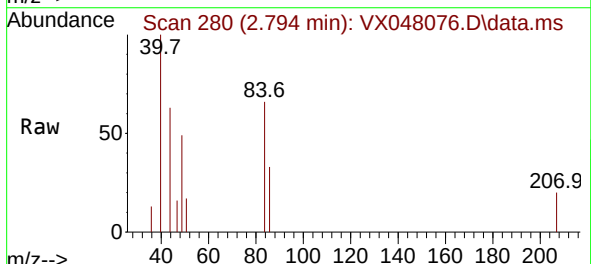
Instrument :
MSVOA_X
ClientSampleId :
3436

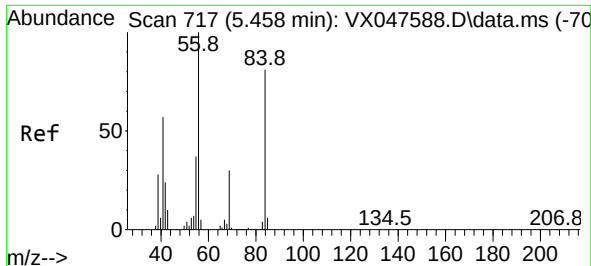
Tgt Ion: 43 Resp: 405
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 0.309 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

Tgt Ion: 84 Resp: 533
Ion Ratio Lower Upper
84 100
49 74.8 108.6 162.8#
51 25.6 32.6 48.8#
86 50.7 52.0 78.0#

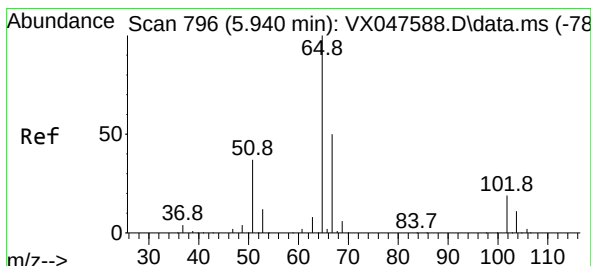
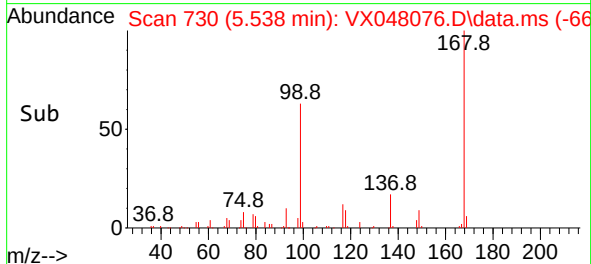
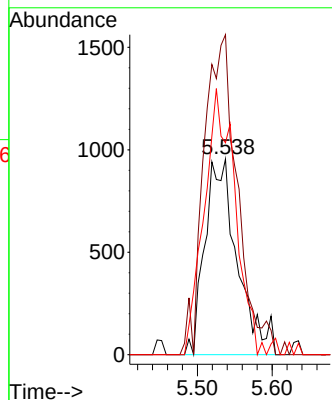
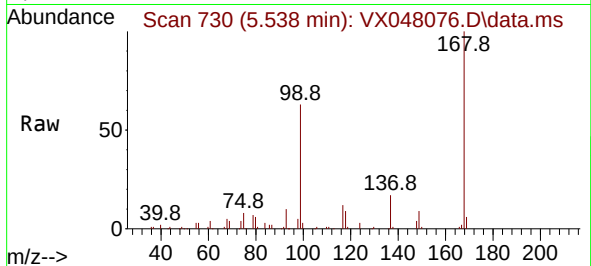




#31
Cyclohexane
Concen: 1.162 ug/l
RT: 5.538 min Scan# 717
Delta R.T. 0.079 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

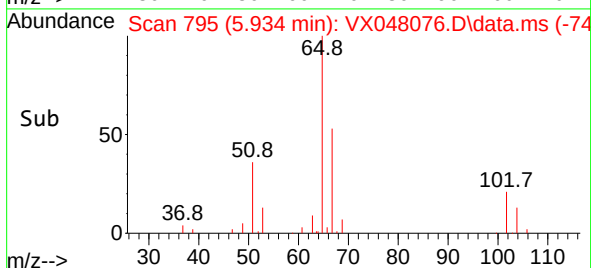
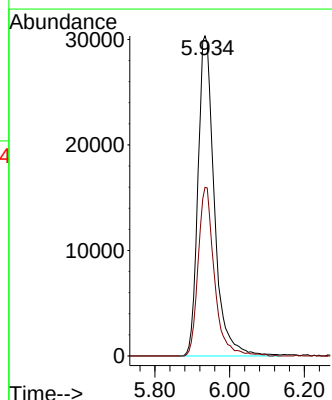
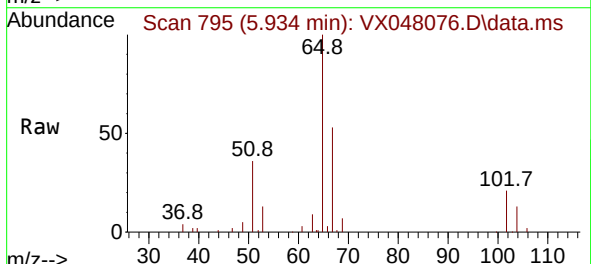
Instrument :
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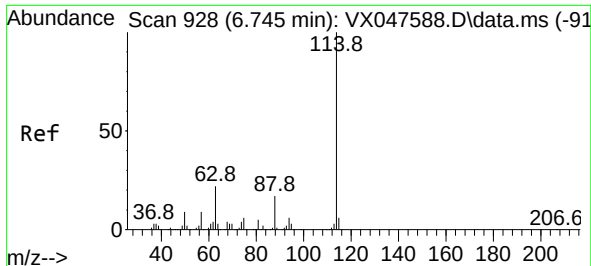
Tgt Ion: 56 Resp: 2874
Ion Ratio Lower Upper
56 100
69 163.6 23.8 35.8#
84 108.3 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 49.295 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

Tgt Ion: 65 Resp: 92254
Ion Ratio Lower Upper
65 100
67 52.3 0.0 103.0

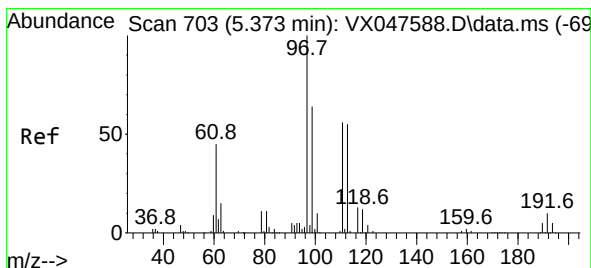
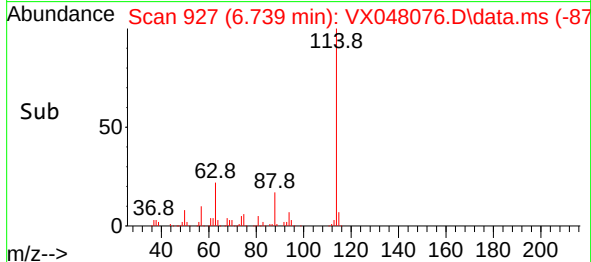
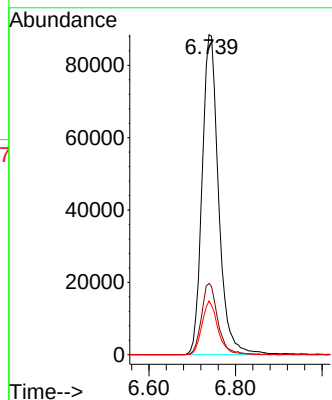
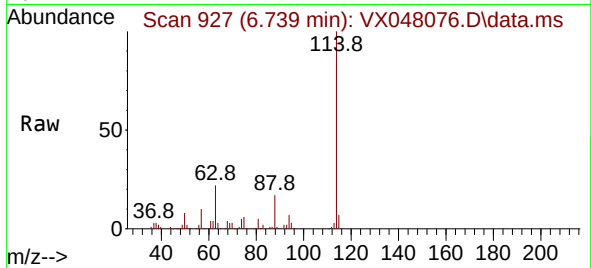




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

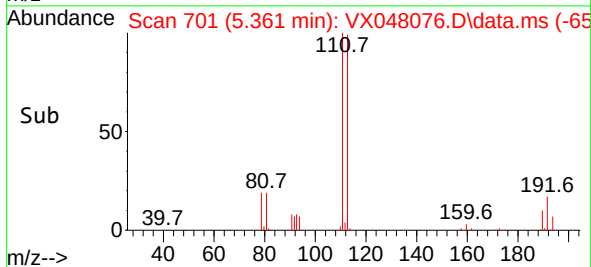
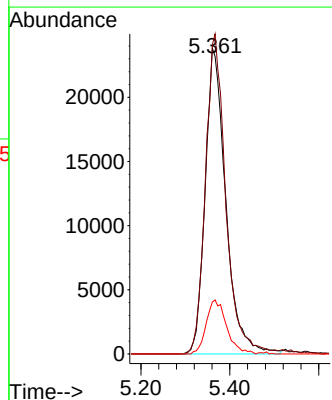
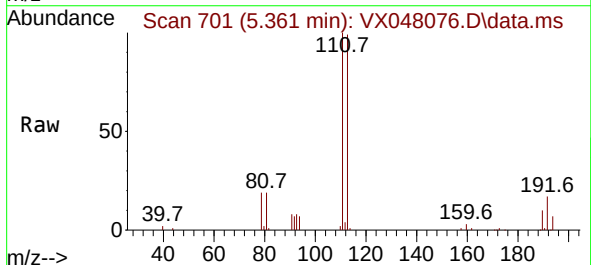
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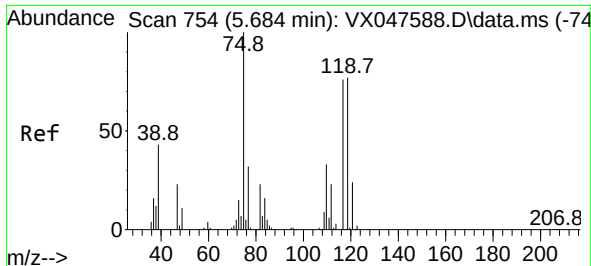
Tgt Ion:114 Resp: 234000
Ion Ratio Lower Upper
114 100
63 22.3 0.0 44.0
88 16.7 0.0 34.2



#35
Dibromofluoromethane
Concen: 49.011 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

Tgt Ion:113 Resp: 76915
Ion Ratio Lower Upper
113 100
111 102.6 80.9 121.3
192 17.4 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.293 ug/l

RT: 5.531 min Scan# 71

Delta R.T. -0.153 min

Lab File: VX048076.D

Acq: 09 Oct 2025 11:29

Instrument :

MSVOA_X

ClientSampleId :

3436

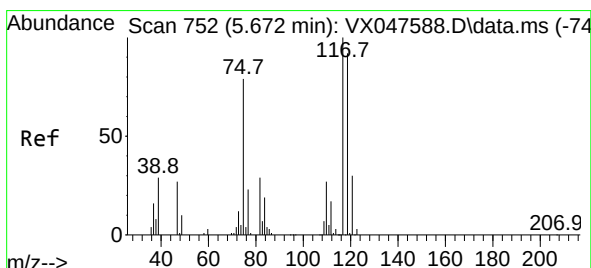
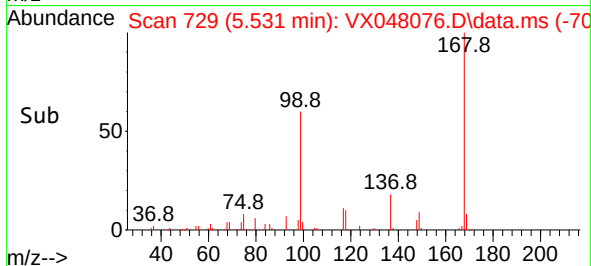
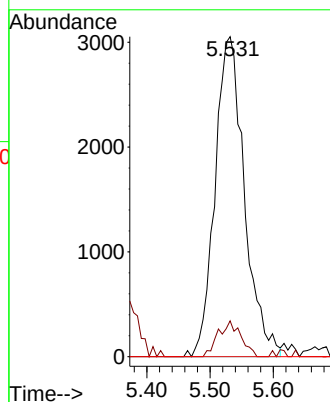
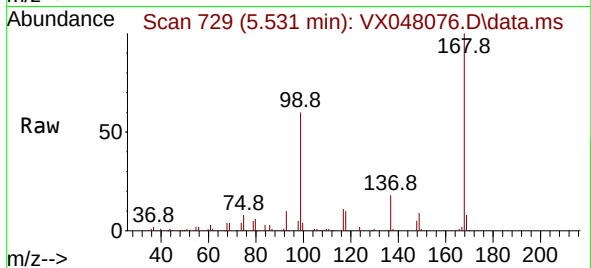
Tgt Ion: 75 Resp: 9844

Ion Ratio Lower Upper

75 100

110 8.6 16.7 50.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 5.202 ug/l

RT: 5.538 min Scan# 730

Delta R.T. -0.134 min

Lab File: VX048076.D

Acq: 09 Oct 2025 11:29

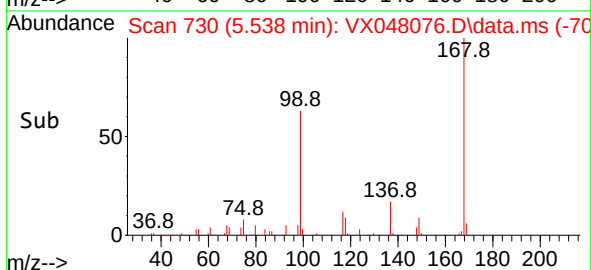
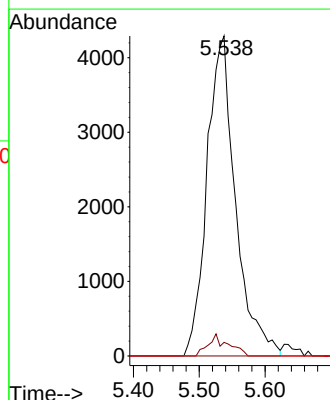
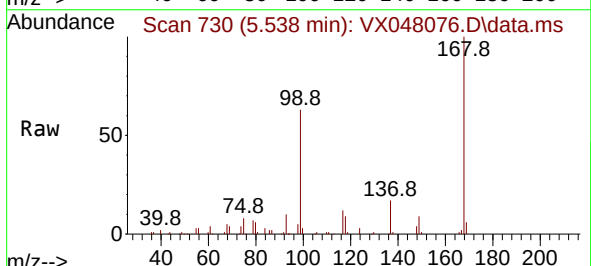
Tgt Ion: 117 Resp: 12961

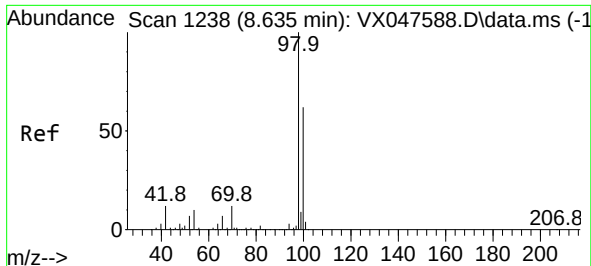
Ion Ratio Lower Upper

117 100

119 4.2 73.4 110.2#

121 0.0 23.8 35.6#

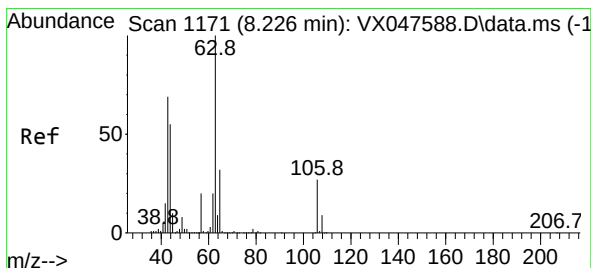
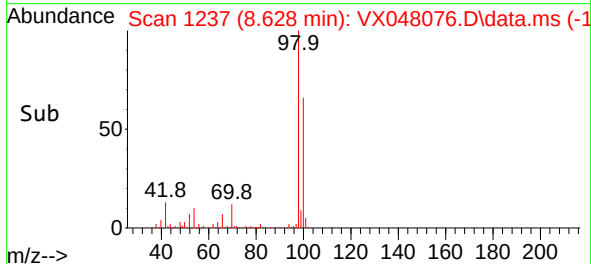
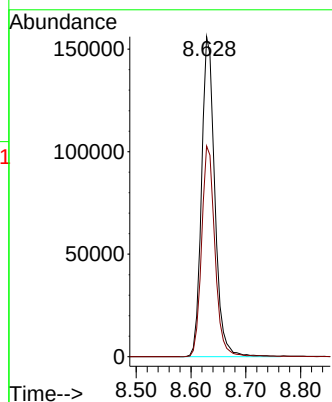
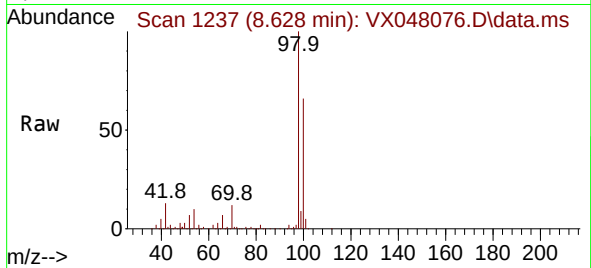




#50
Toluene-d8
Concen: 48.282 ug/l
RT: 8.628 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

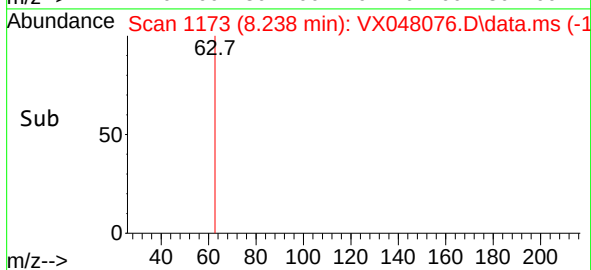
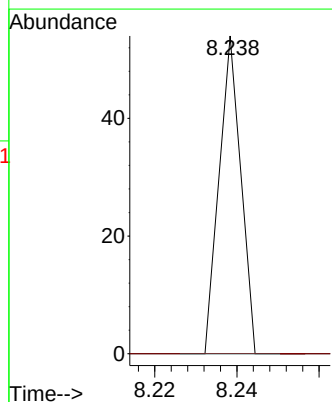
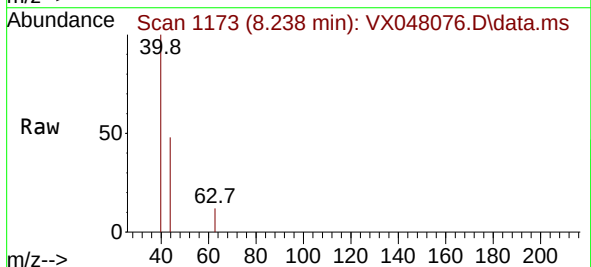
Instrument :
MSVOA_X
ClientSampleId :
3436

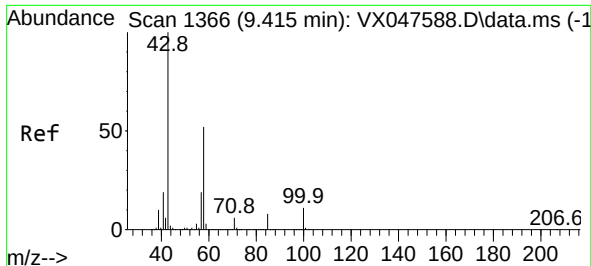
Tgt Ion: 98 Resp: 262180
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4



#58
2-Chloroethyl Vinyl ether
Concen: 7.908 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.012 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

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





#59

2-Hexanone

Concen: 2.150 ug/l

RT: 9.421 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX048076.D

Acq: 09 Oct 2025 11:29

Instrument :

MSVOA_X

ClientSampleId :

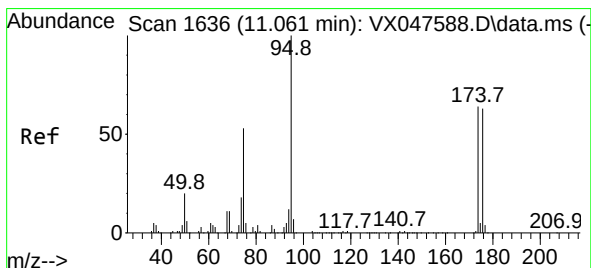
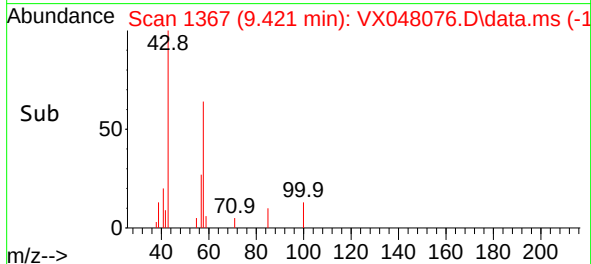
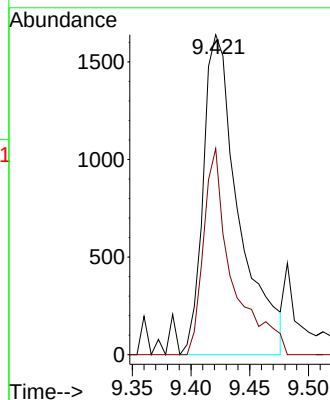
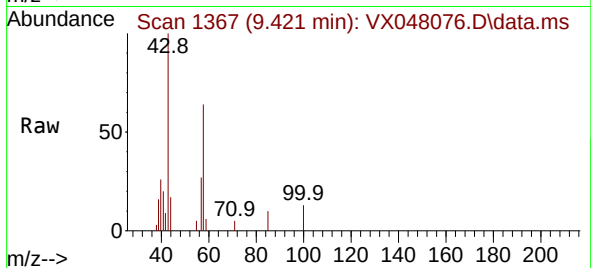
3436

Tgt Ion: 43 Resp: 3447

Ion Ratio Lower Upper

43 100

58 51.7 26.1 78.2



#62

4-Bromofluorobenzene

Concen: 54.079 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048076.D

Acq: 09 Oct 2025 11:29

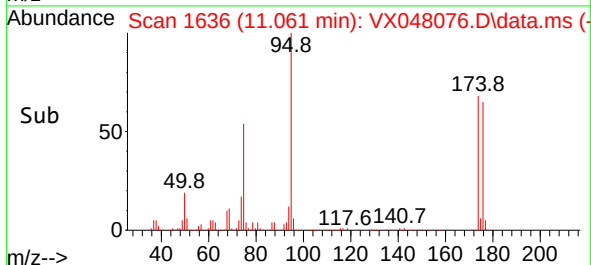
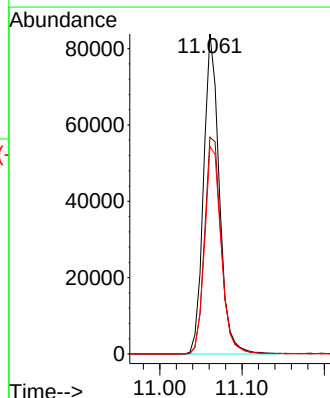
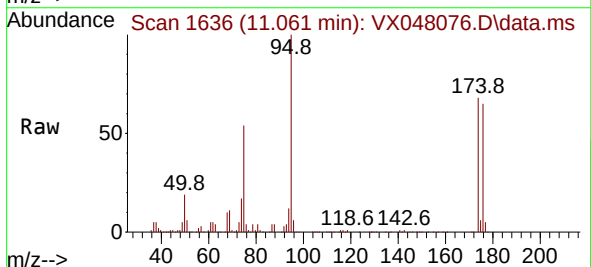
Tgt Ion: 95 Resp: 111449

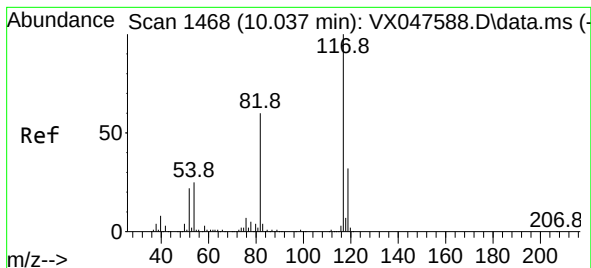
Ion Ratio Lower Upper

95 100

174 72.0 0.0 141.6

176 68.4 0.0 138.4

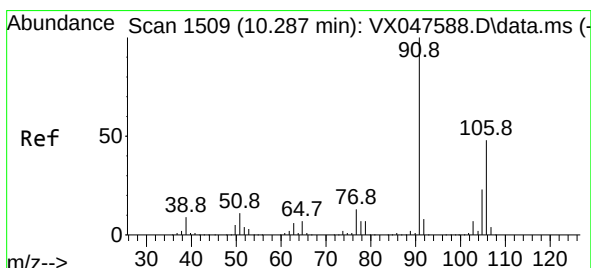
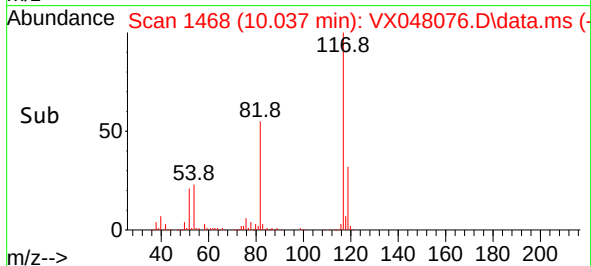
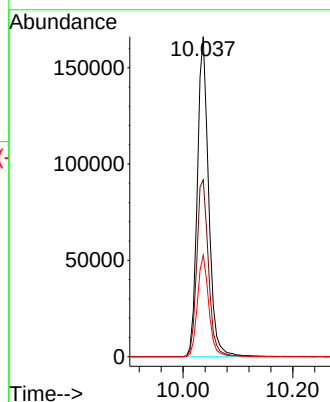
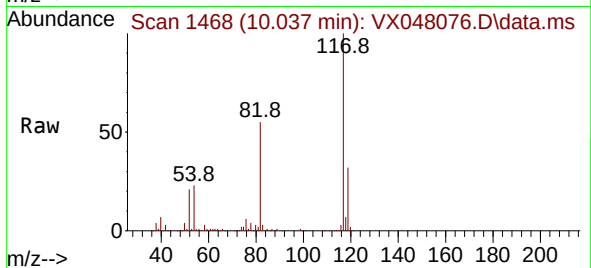




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

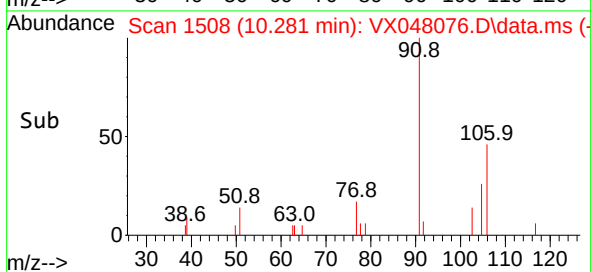
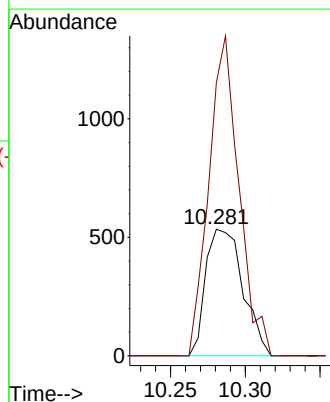
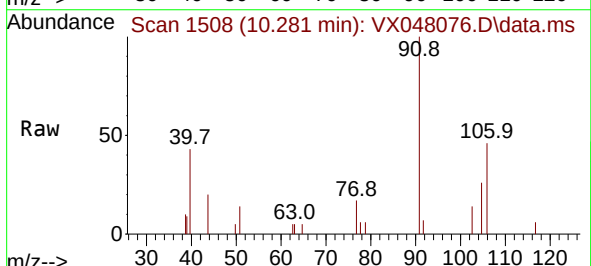
Instrument :
MSVOA_X
ClientSampleId :
3436

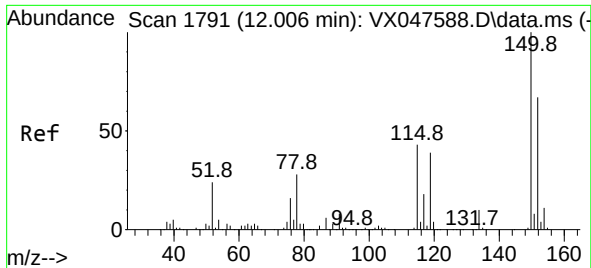
Tgt Ion:117 Resp: 239825
Ion Ratio Lower Upper
117 100
82 55.2 47.8 71.6
119 31.7 25.2 37.8



#68
m/p-Xylenes
Concen: 0.264 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

Tgt Ion:106 Resp: 925
Ion Ratio Lower Upper
106 100
91 204.2 167.8 251.8

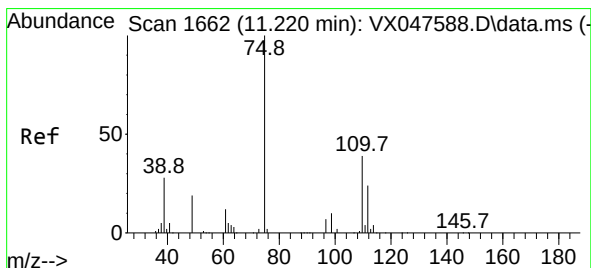
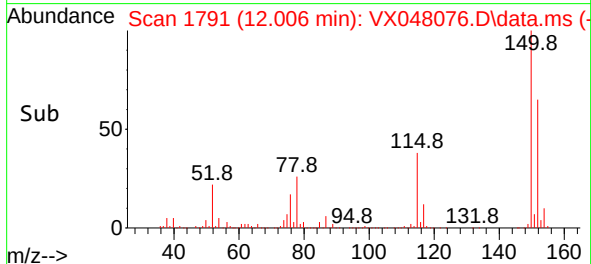
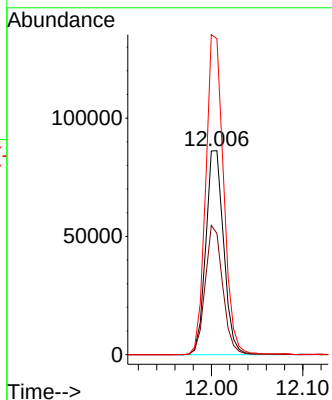
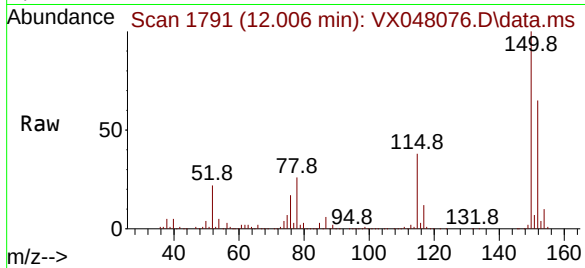




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048076.D
 Acq: 09 Oct 2025 11:29

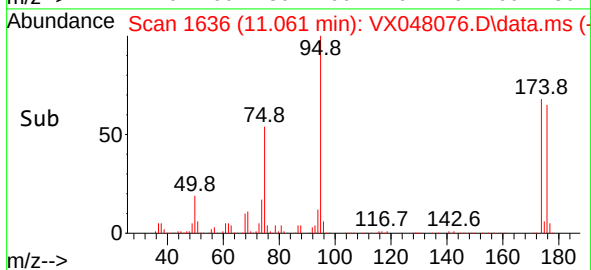
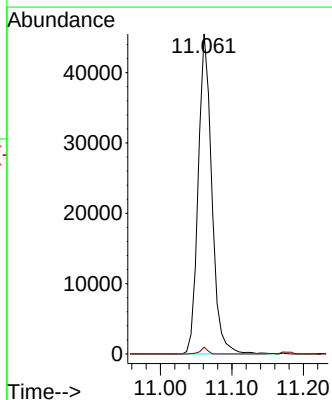
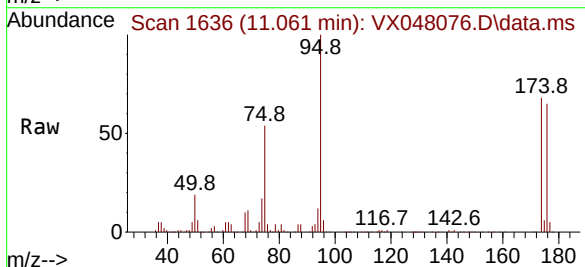
Instrument :
 MSVOA_X
 ClientSampleId :
 3436

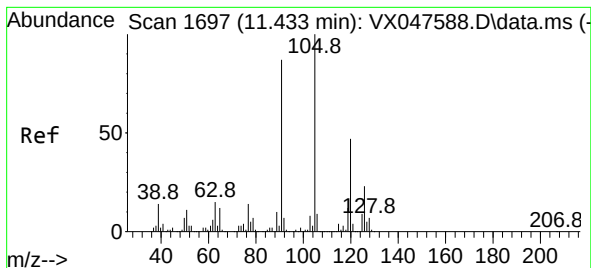
Tgt Ion:152 Resp: 117315
 Ion Ratio Lower Upper
 152 100
 115 62.0 44.9 134.5
 150 156.4 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 25.246 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048076.D
 Acq: 09 Oct 2025 11:29

Tgt Ion: 75 Resp: 59966
 Ion Ratio Lower Upper
 75 100
 77 1.1 18.8 56.4#





#80

1,3,5-Trimethylbenzene

Concen: 0.248 ug/l

RT: 11.433 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048076.D

Acq: 09 Oct 2025 11:29

Instrument :

MSVOA_X

ClientSampleId :

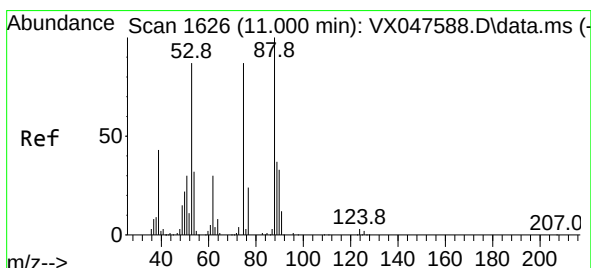
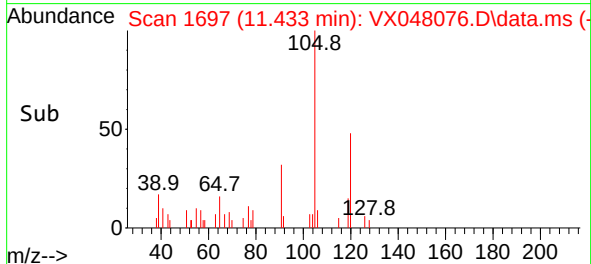
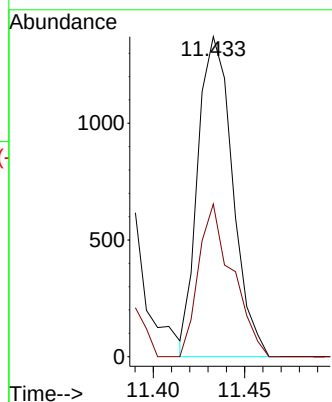
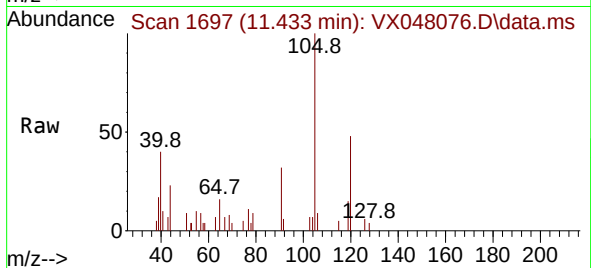
3436

Tgt Ion:105 Resp: 1814

Ion Ratio Lower Upper

105 100

120 46.6 23.6 70.8



#81

trans-1,4-Dichloro-2-butene

Concen: 64.381 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.061 min

Lab File: VX048076.D

Acq: 09 Oct 2025 11:29

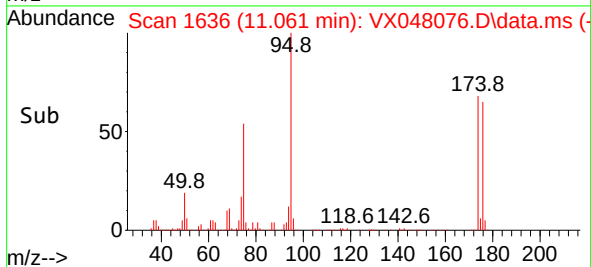
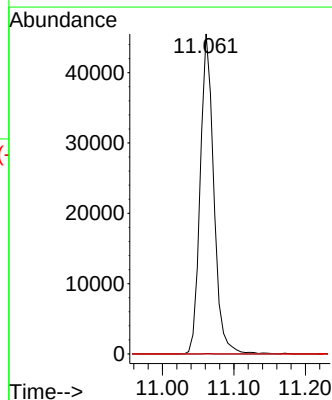
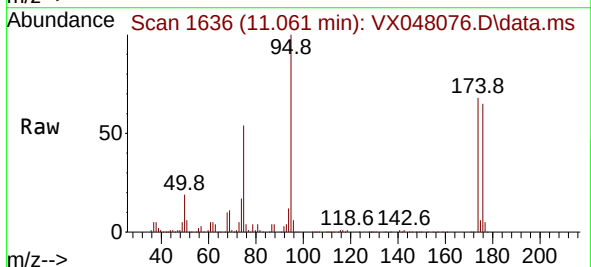
Tgt Ion: 75 Resp: 59966

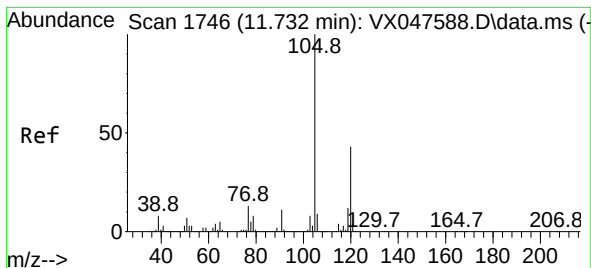
Ion Ratio Lower Upper

75 100

53 0.1 83.4 125.2#

89 0.0 36.3 54.5#





#84

1,2,4-Trimethylbenzene

Concen: 0.521 ug/l

RT: 11.738 min Scan# 1746

Delta R.T. 0.006 min

Lab File: VX048076.D

Acq: 09 Oct 2025 11:29

Instrument :

MSVOA_X

ClientSampleId :

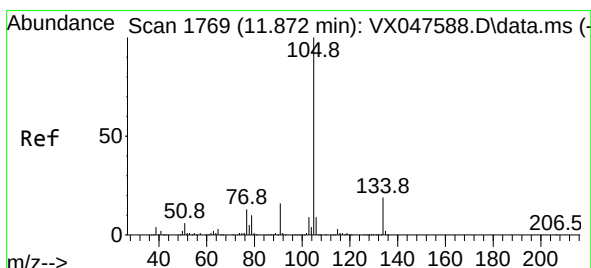
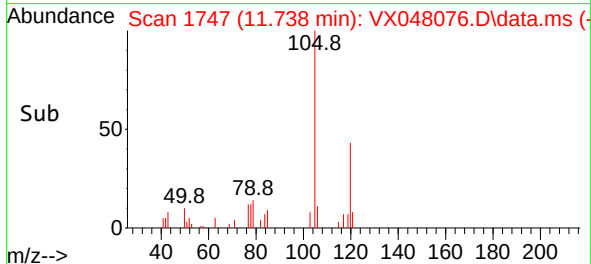
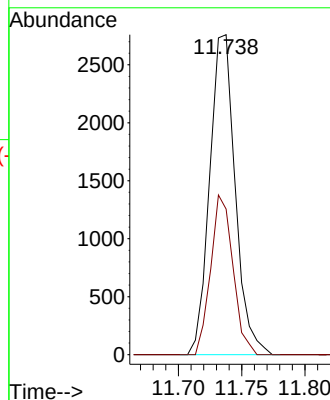
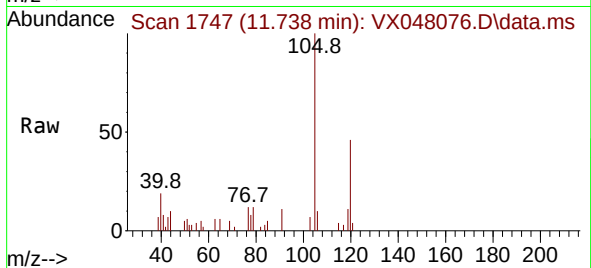
3436

Tgt Ion:105 Resp: 3873

Ion Ratio Lower Upper

105 100

120 43.5 22.1 66.1



#85

sec-Butylbenzene

Concen: 0.219 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX048076.D

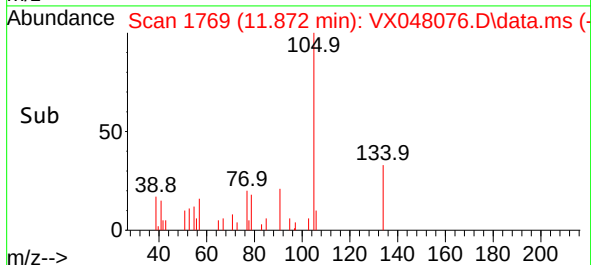
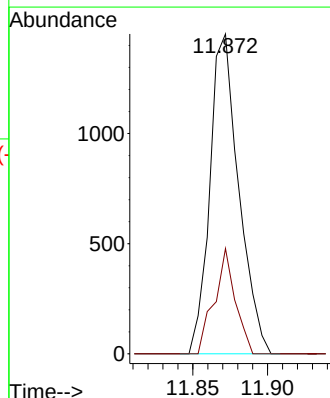
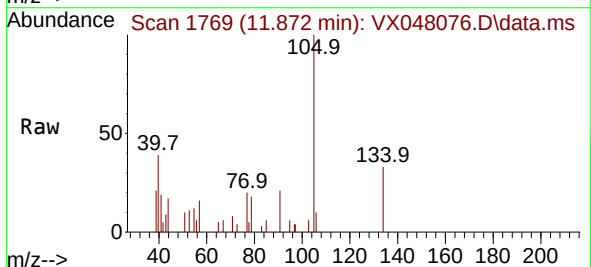
Acq: 09 Oct 2025 11:29

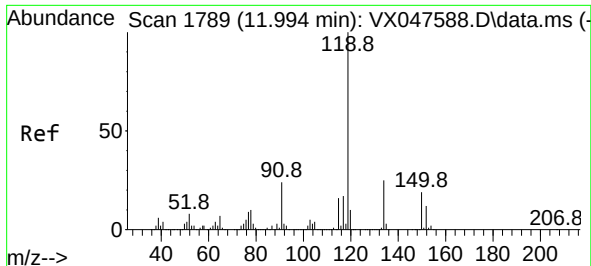
Tgt Ion:105 Resp: 1951

Ion Ratio Lower Upper

105 100

134 23.8 9.8 29.5

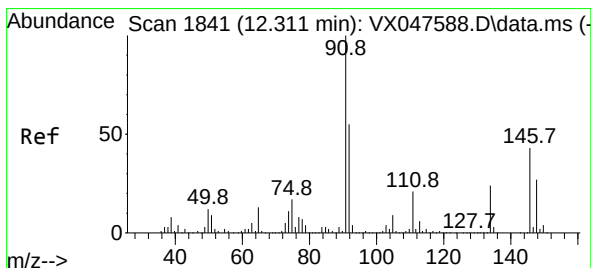
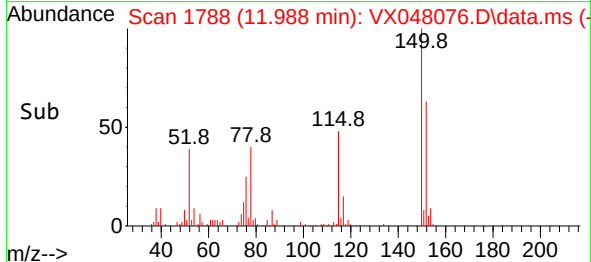
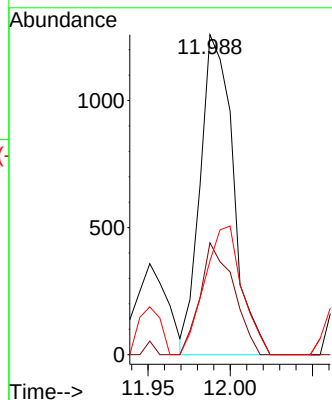
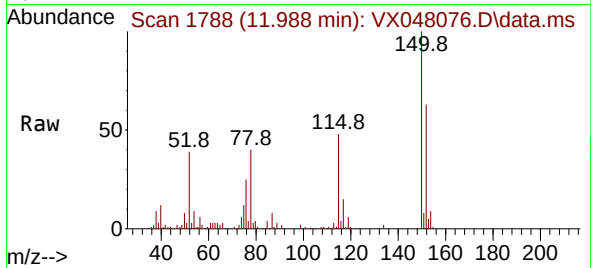




#86
p-Isopropyltoluene
Concen: 0.232 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

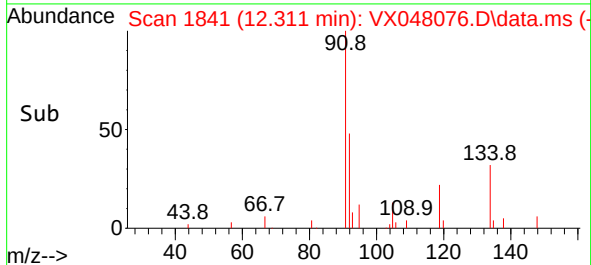
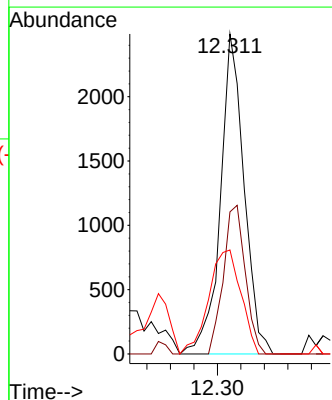
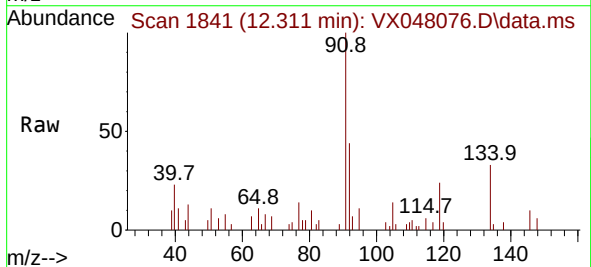
Instrument :
MSVOA_X
ClientSampleId :
3436

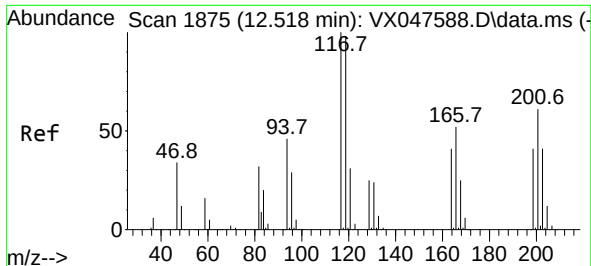
Tgt Ion:119 Resp: 1750
Ion Ratio Lower Upper
119 100
134 35.5 12.6 37.8
91 45.7 12.6 37.6#



#89
n-Butylbenzene
Concen: 0.499 ug/l
RT: 12.311 min Scan# 1841
Delta R.T. -0.000 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

Tgt Ion: 91 Resp: 3486
Ion Ratio Lower Upper
91 100
92 43.0 27.6 82.7
134 44.0 12.6 37.8#

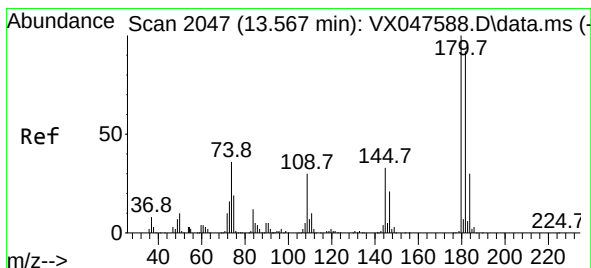
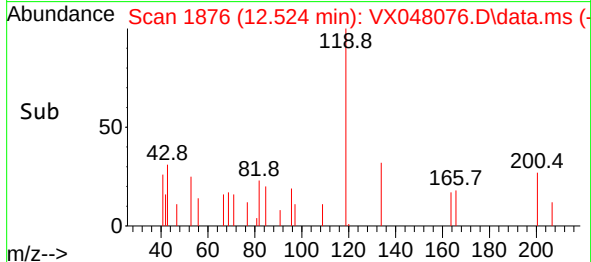
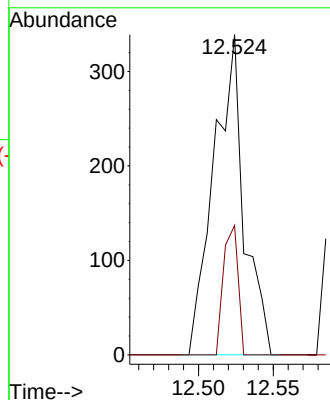
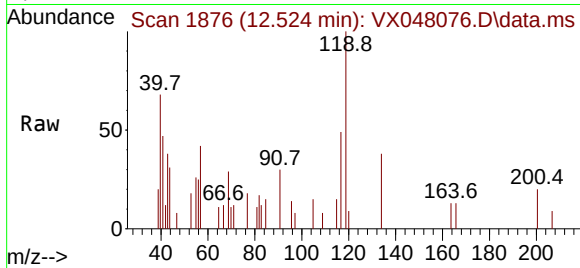




#90
Hexachloroethane
Concen: 0.358 ug/l
RT: 12.524 min Scan# 117
Delta R.T. 0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

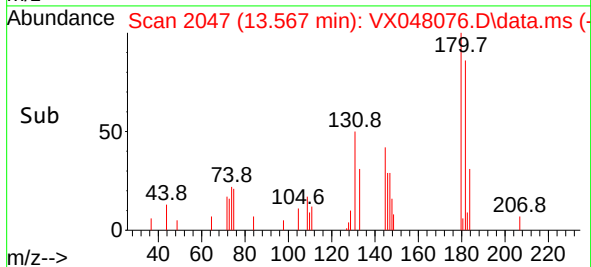
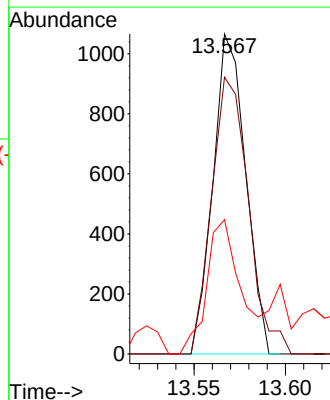
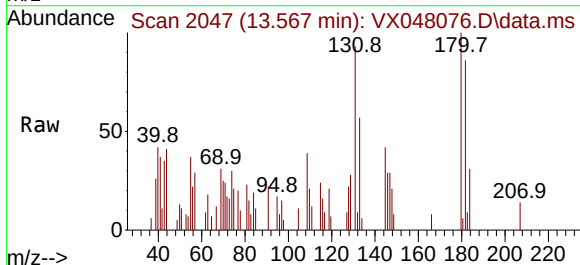
Instrument :
MSVOA_X
ClientSampleId :
3436

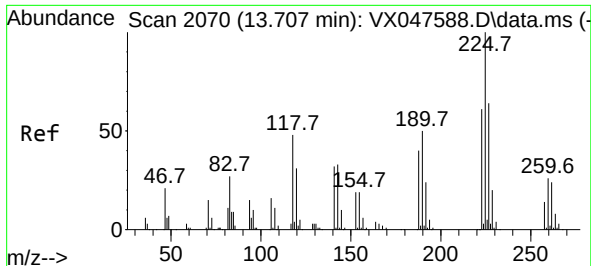
Tgt Ion:117 Resp: 474
Ion Ratio Lower Upper
117 100
201 19.4 34.2 102.5#



#93
1,2,4-Trichlorobenzene
Concen: 0.524 ug/l
RT: 13.567 min Scan# 2047
Delta R.T. -0.000 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

Tgt Ion:180 Resp: 1324
Ion Ratio Lower Upper
180 100
182 97.5 46.6 139.8
145 43.5 16.4 49.1

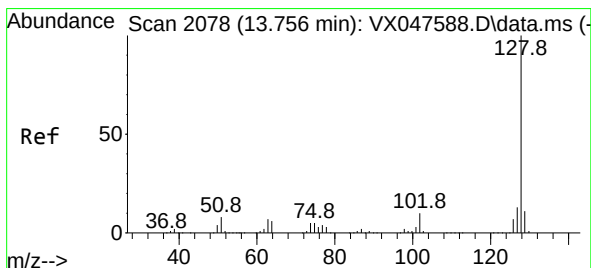
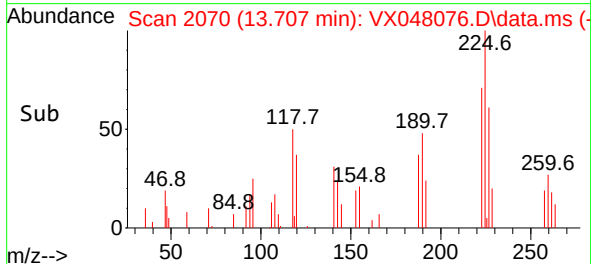
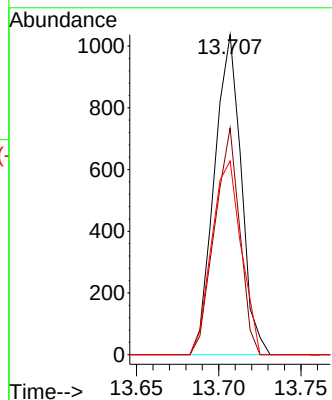
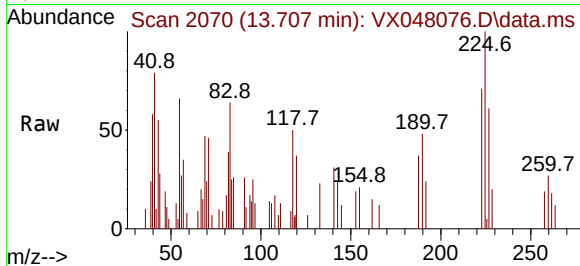




#94
Hexachlorobutadiene
Concen: 1.369 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

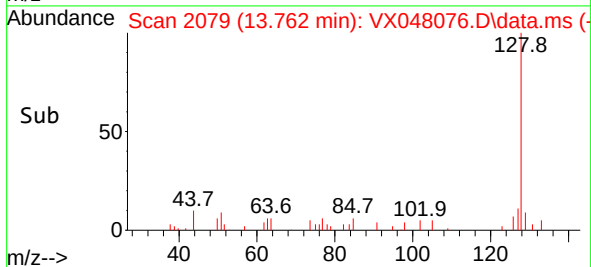
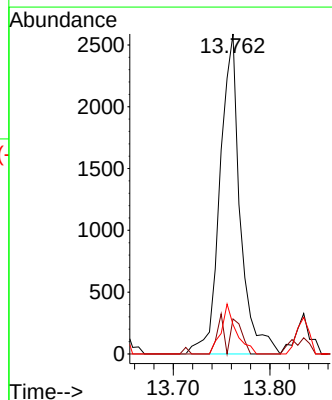
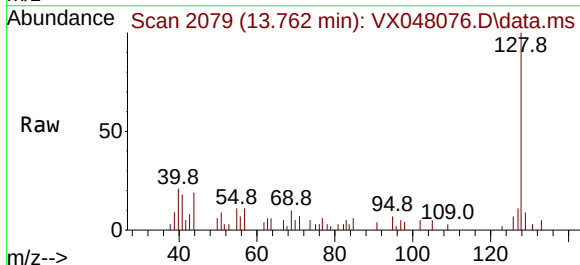
Instrument :
MSVOA_X
ClientSampleId :
3436

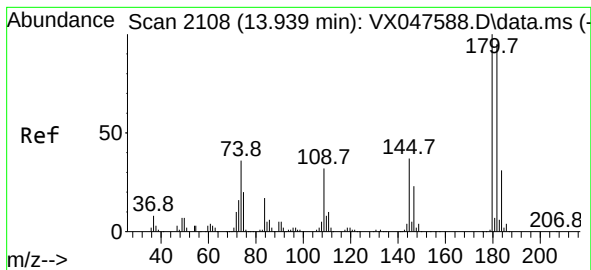
Tgt Ion:	225	Resp:	1175
Ion	Ratio	Lower	Upper
225	100		
223	66.0	31.7	95.1
227	66.6	32.0	96.0



#95
Naphthalene
Concen: 0.487 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. 0.006 min
Lab File: VX048076.D
Acq: 09 Oct 2025 11:29

Tgt Ion:	128	Resp:	3745
Ion	Ratio	Lower	Upper
128	100		
127	6.2	10.2	15.2#
129	11.6	8.8	13.2





#96

1,2,3-Trichlorobenzene

Concen: 0.549 ug/l

RT: 13.945 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX048076.D

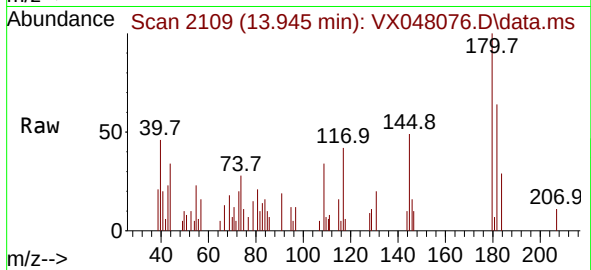
Acq: 09 Oct 2025 11:29

Instrument :

MSVOA_X

ClientSampleId :

3436



Tgt Ion:180 Resp: 1291

Ion Ratio Lower Upper

180 100

182 88.2 47.6 142.8

145 54.4 17.9 53.7#

