

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092525\
 Data File : VX047800.D
 Acq On : 25 Sep 2025 11:03
 Operator : JC/MD
 Sample : Q3165-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VPB184-HYD-20250919

Quant Time: Sep 26 01:24:28 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)

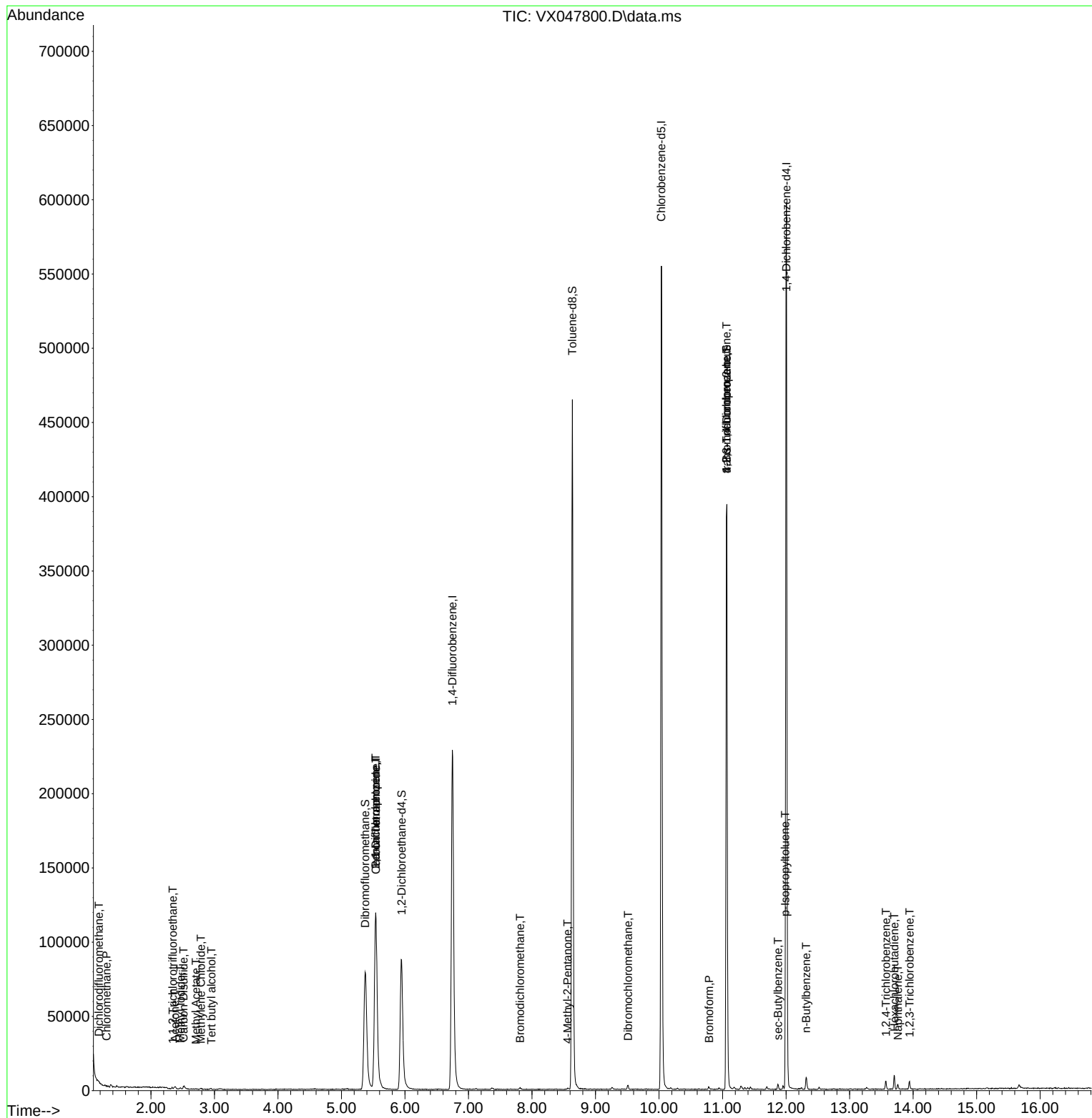
Internal Standards						
1) Pentafluorobenzene	5.537	168	120300	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	251100	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	252620	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	124631	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95225	49.729	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.460%
35) Dibromofluoromethane	5.373	113	79370	47.131	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.260%
50) Toluene-d8	8.634	98	278502	47.795	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.580%
62) 4-Bromofluorobenzene	11.061	95	116832	52.830	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	105.660%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.178	85	282	0.226	ug/l #	43
3) Chloromethane	1.300	50	683	0.417	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.343	101	382	0.275	ug/l #	62
10) Methyl Iodide	2.465	142	825	0.380	ug/l #	88
11) Tert butyl alcohol	2.953	59	73	0.342	ug/l #	72
16) Acetone	2.379	43	1947	2.338	ug/l #	80
17) Carbon Disulfide	2.514	76	1437	0.367	ug/l #	76
18) Methyl Acetate	2.709	43	503	0.271	ug/l #	54
20) Methylene Chloride	2.788	84	361	0.205	ug/l #	68
36) 1,1-Dichloropropene	5.537	75	10337	4.201	ug/l #	47
38) Carbon Tetrachloride	5.544	117	12642	4.728	ug/l #	17
47) Bromodichloromethane	7.811	83	999	0.348	ug/l #	76
51) 4-Methyl-2-Pentanone	8.561	43	852	0.356	ug/l #	62
60) Dibromochloromethane	9.512	129	1410	0.689	ug/l	100
71) Bromoform	10.787	173	643	0.435	ug/l #	99
76) 1,2,3-Trichloropropane	11.061	75	60140	23.833	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	60140	60.778	ug/l #	8
85) sec-Butylbenzene	11.872	105	1925	0.203	ug/l	96
86) p-Isopropyltoluene	11.988	119	1659	0.207	ug/l #	76
89) n-Butylbenzene	12.317	91	2803	0.378	ug/l	96
93) 1,2,4-Trichlorobenzene	13.573	180	1700	0.633	ug/l	91
94) Hexachlorobutadiene	13.707	225	1254	1.376	ug/l	94
95) Naphthalene	13.762	128	2491	0.305	ug/l	96
96) 1,2,3-Trichlorobenzene	13.944	180	1398	0.560	ug/l	92

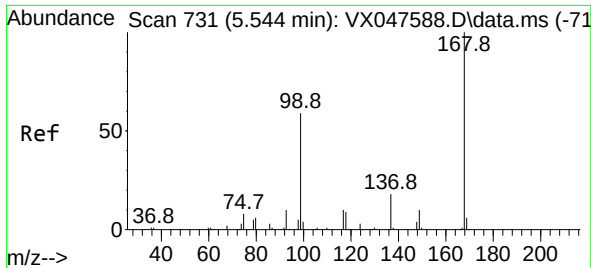
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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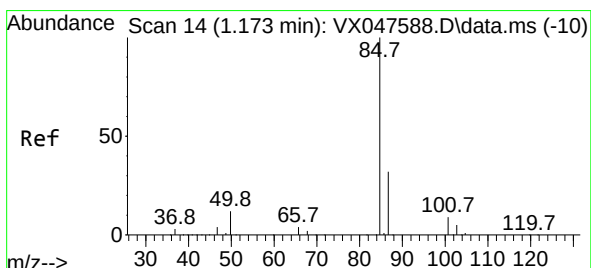
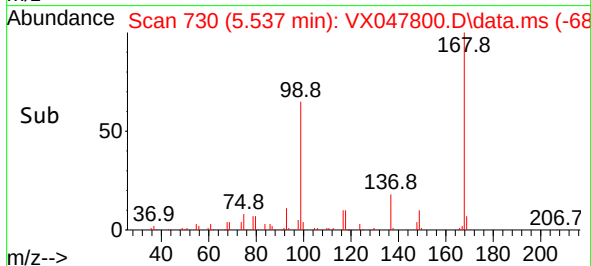
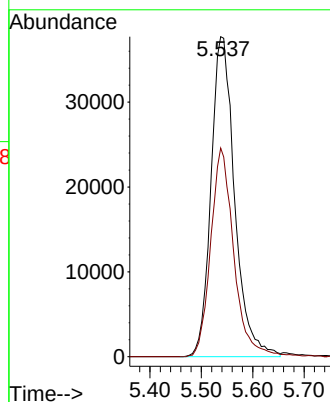
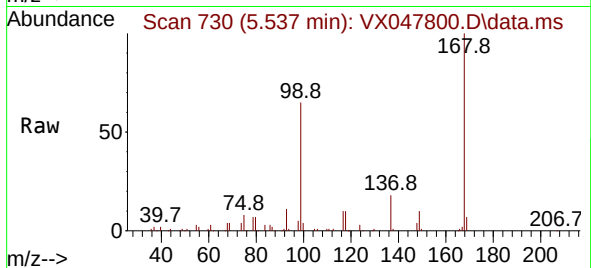




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

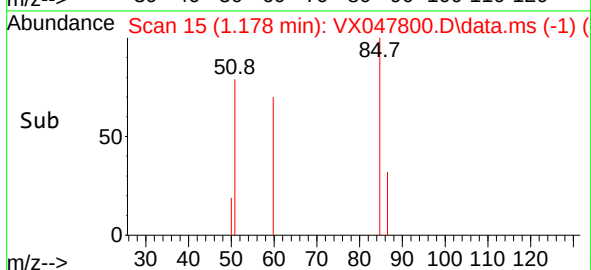
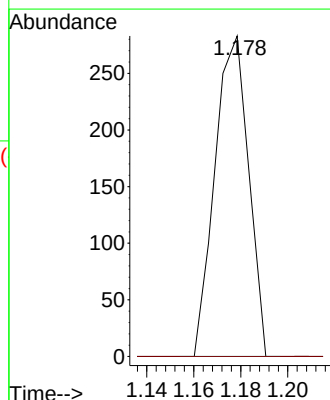
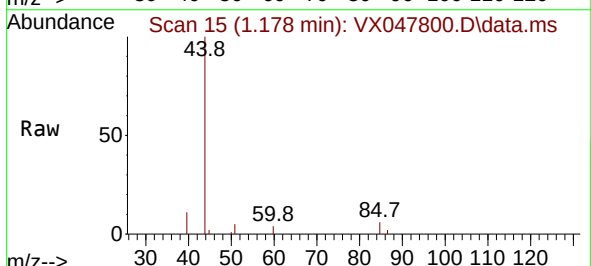
Instrument :
MSVOA_X
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VPB184-HYD-20250919

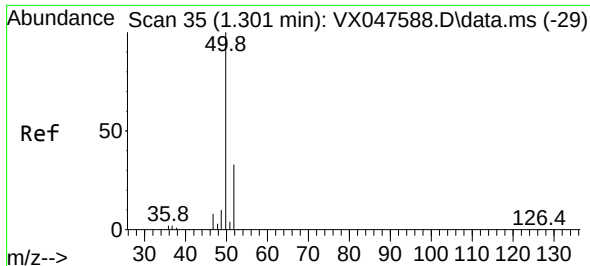
Tgt Ion:168 Resp: 120300
Ion Ratio Lower Upper
168 100
99 65.2 48.8 73.2



#2
Dichlorodifluoromethane
Concen: 0.226 ug/l
RT: 1.178 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 85 Resp: 282
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.3#

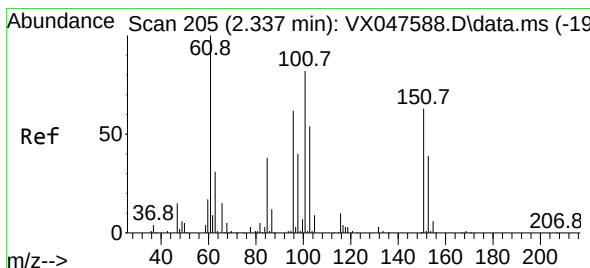
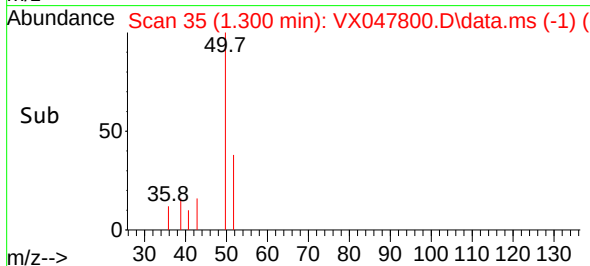
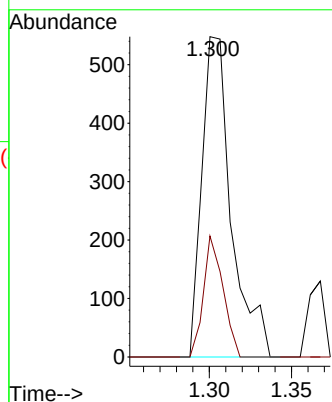
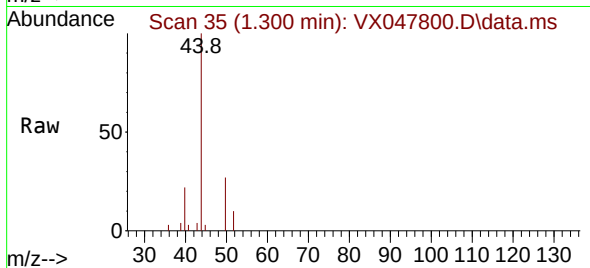




#3
Chloromethane
Concen: 0.417 ug/l
RT: 1.300 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

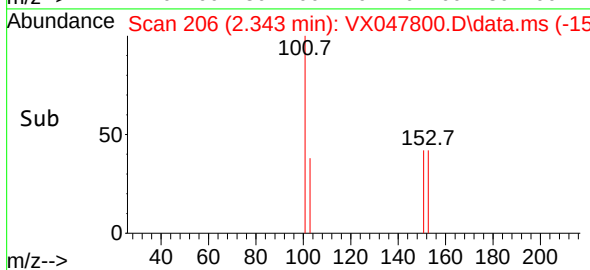
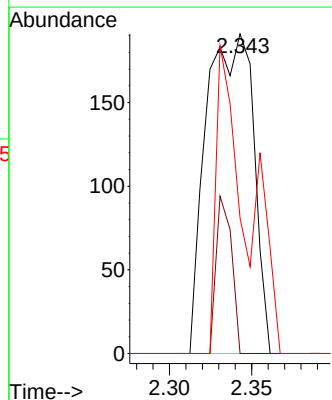
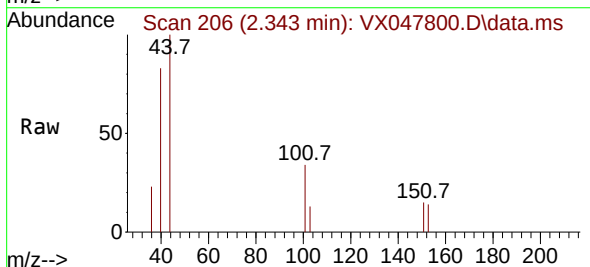
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20250919

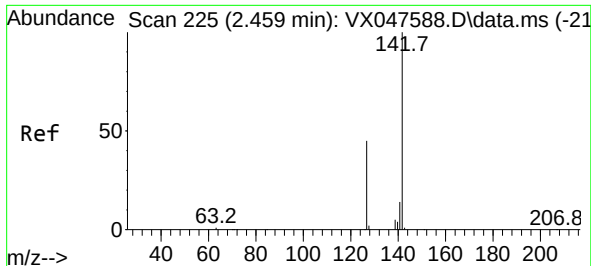
Tgt Ion: 50 Resp: 683
Ion Ratio Lower Upper
50 100
52 37.8 26.1 39.1



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.275 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 101 Resp: 382
Ion Ratio Lower Upper
101 100
85 16.0 35.5 53.3#
151 44.5 59.4 89.0#

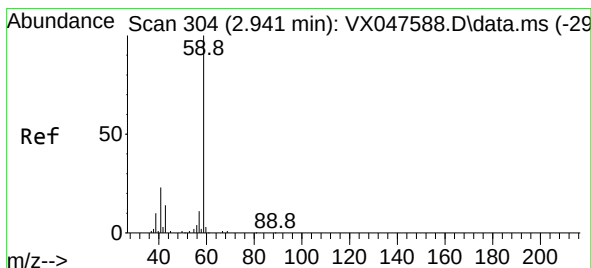
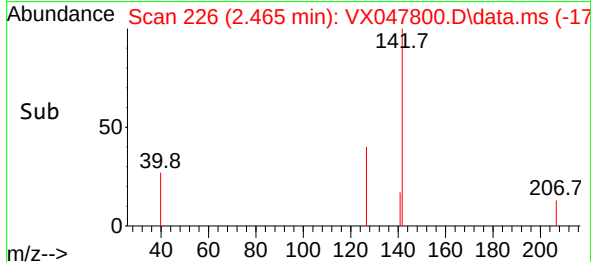
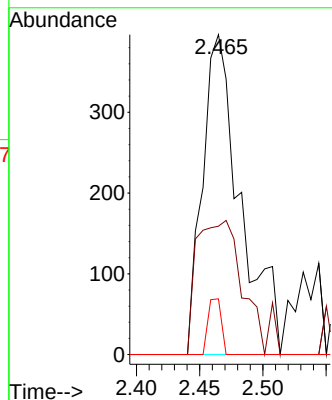
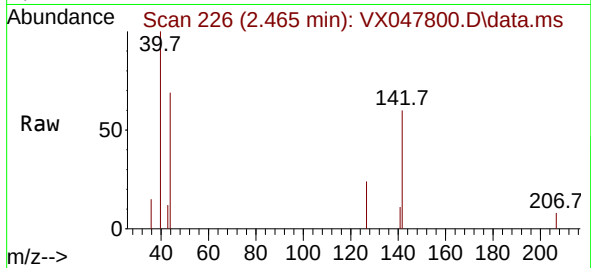




#10
Methyl Iodide
Concen: 0.380 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

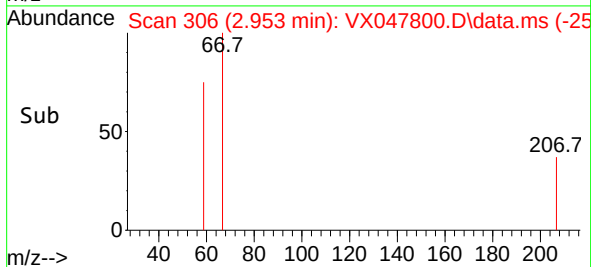
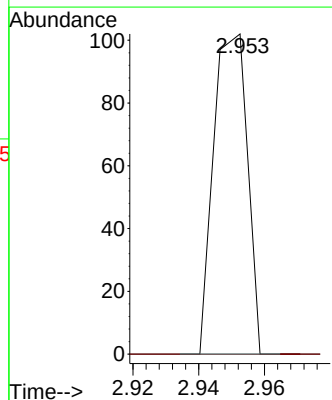
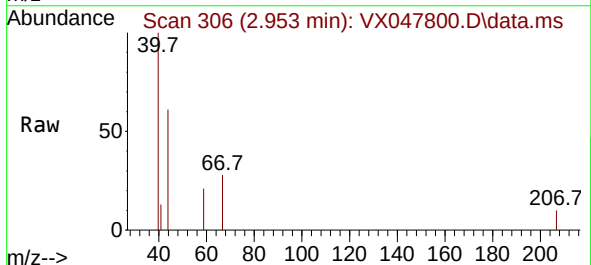
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20250919

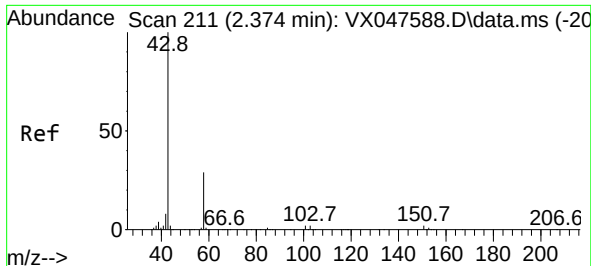
Tgt Ion:142 Resp: 825
Ion Ratio Lower Upper
142 100
127 52.5 37.2 55.8
141 6.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.342 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 59 Resp: 73
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

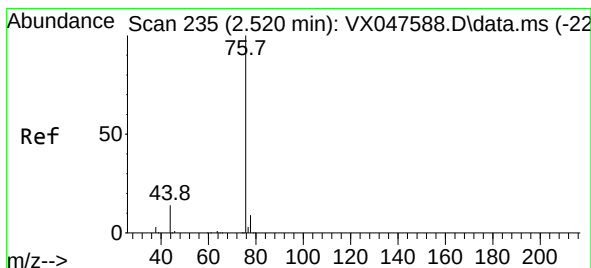
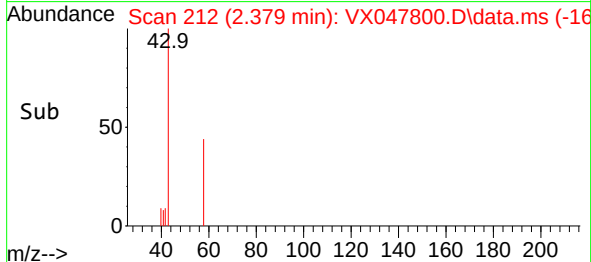
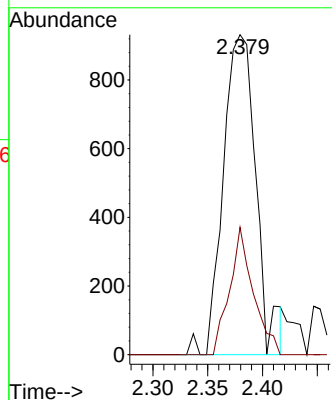
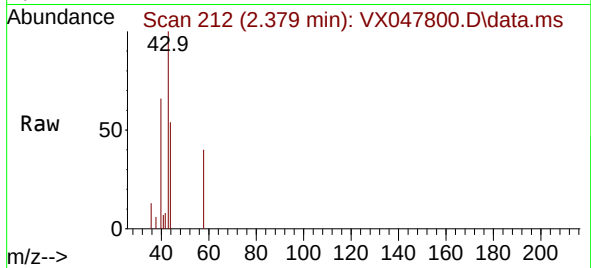




#16
Acetone
Concen: 2.338 ug/l
RT: 2.379 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

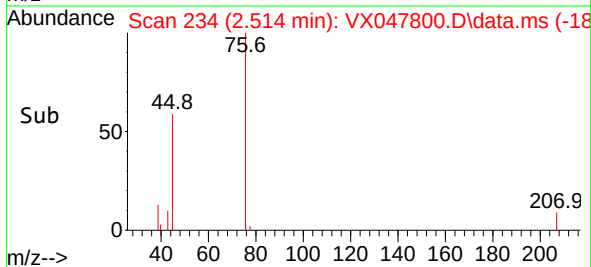
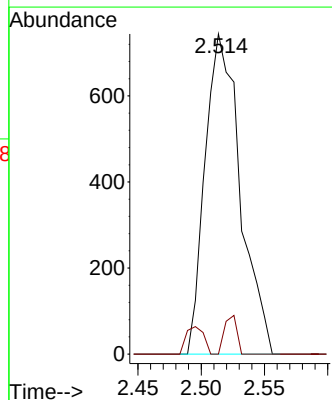
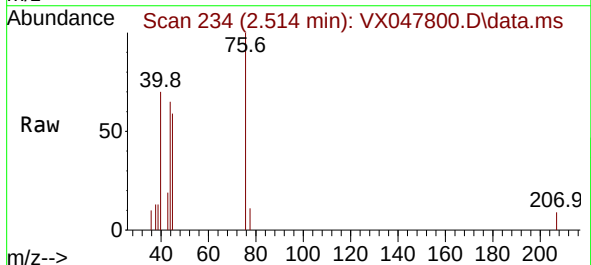
Instrument :
MSVOA_X
ClientSampleId :
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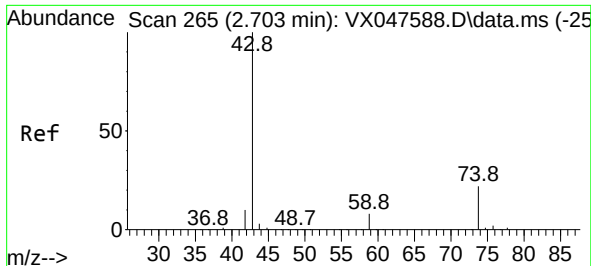
Tgt Ion: 43 Resp: 1947
Ion Ratio Lower Upper
43 100
58 39.8 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.367 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 76 Resp: 1437
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

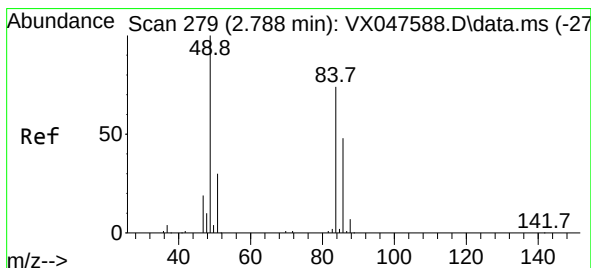
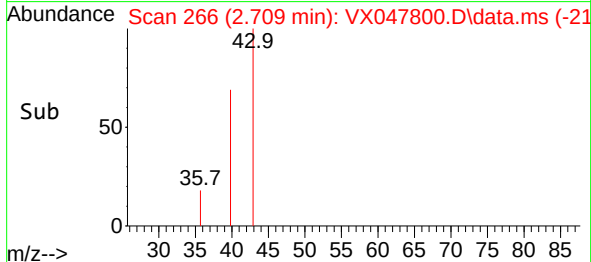
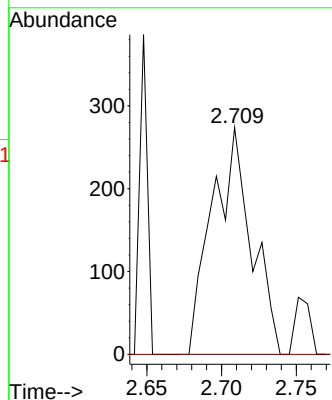
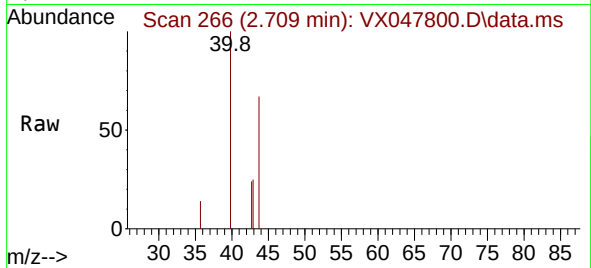




#18
Methyl Acetate
Concen: 0.271 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

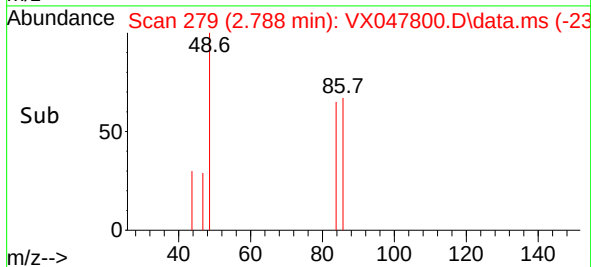
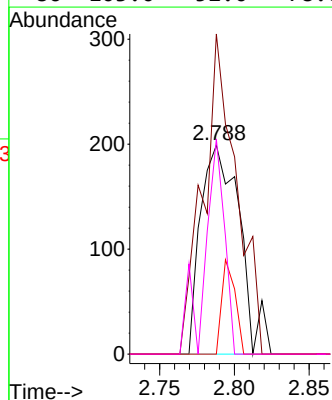
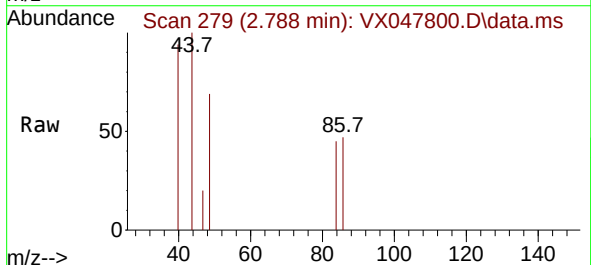
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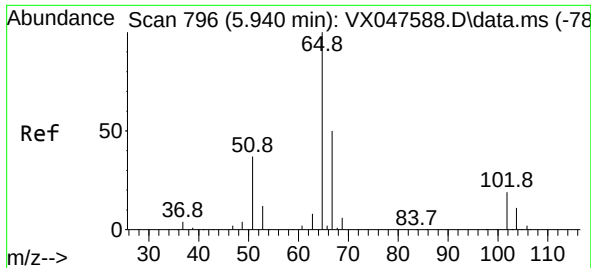
Tgt Ion: 43 Resp: 503
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 0.205 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 84 Resp: 361
Ion Ratio Lower Upper
84 100
49 153.3 108.6 162.8
51 0.0 32.6 48.8#
86 103.0 52.0 78.0#





#33

1,2-Dichloroethane-d4

Concen: 49.729 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047800.D

Acq: 25 Sep 2025 11:03

Instrument :

MSVOA_X

ClientSampleId :

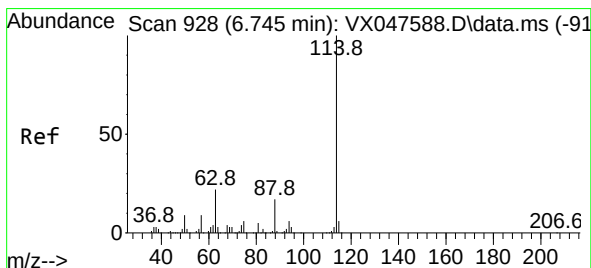
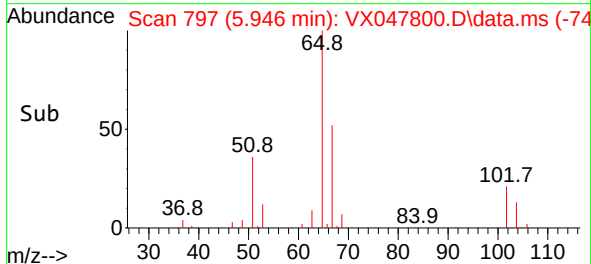
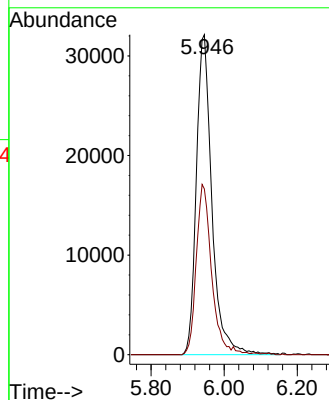
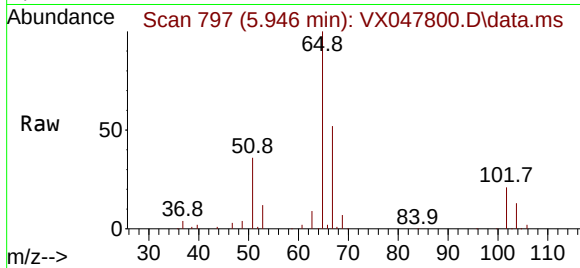
VPB184-HYD-20250919

Tgt Ion: 65 Resp: 95225

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047800.D

Acq: 25 Sep 2025 11:03

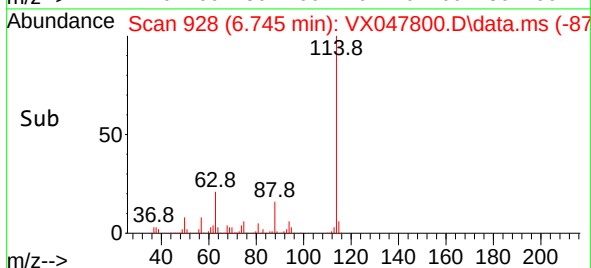
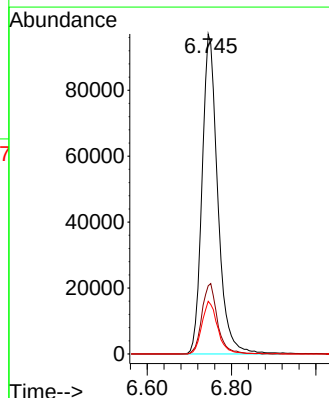
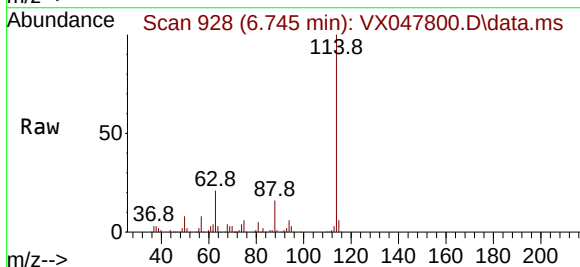
Tgt Ion: 114 Resp: 251100

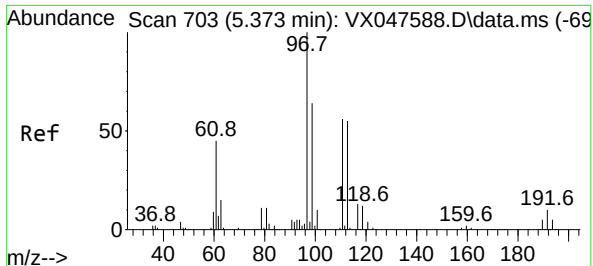
Ion Ratio Lower Upper

114 100

63 21.3 0.0 44.0

88 16.5 0.0 34.2





#35

Dibromofluoromethane

Concen: 47.131 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047800.D

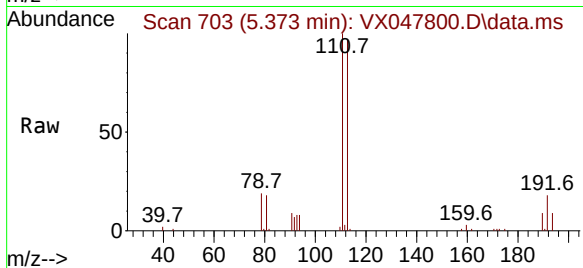
Acq: 25 Sep 2025 11:03

Instrument :

MSVOA_X

ClientSampleId :

VPB184-HYD-20250919



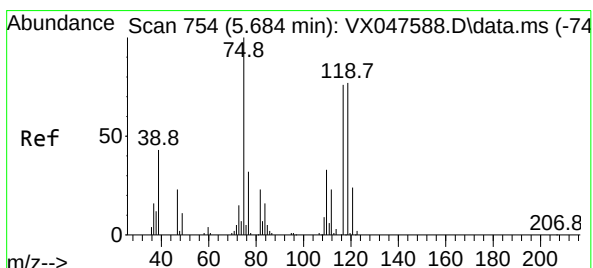
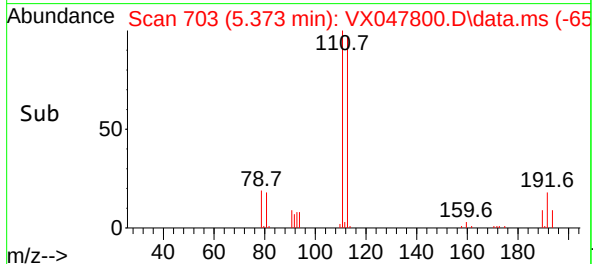
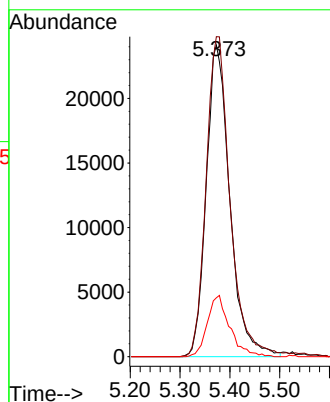
Tgt Ion:113 Resp: 79370

Ion Ratio Lower Upper

113 100

111 104.4 80.9 121.3

192 18.7 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.201 ug/l

RT: 5.537 min Scan# 730

Delta R.T. -0.147 min

Lab File: VX047800.D

Acq: 25 Sep 2025 11:03

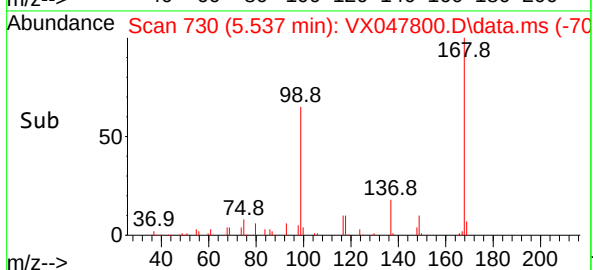
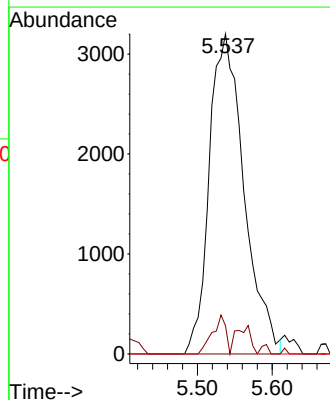
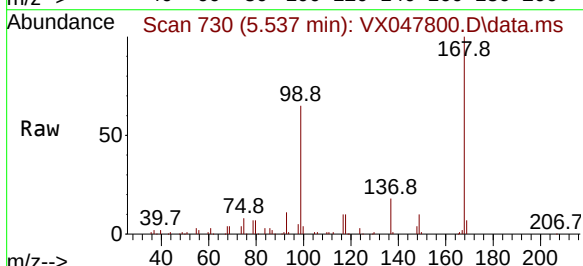
Tgt Ion: 75 Resp: 10337

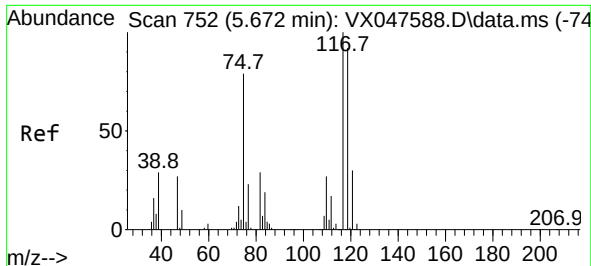
Ion Ratio Lower Upper

75 100

110 4.7 16.7 50.1#

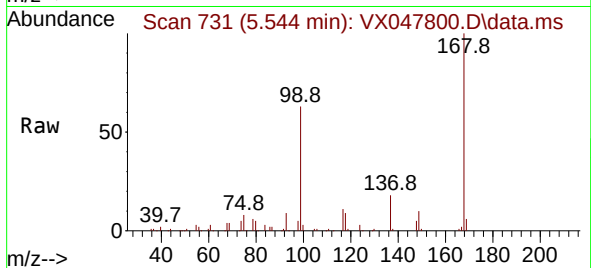
77 0.0 24.3 36.5#



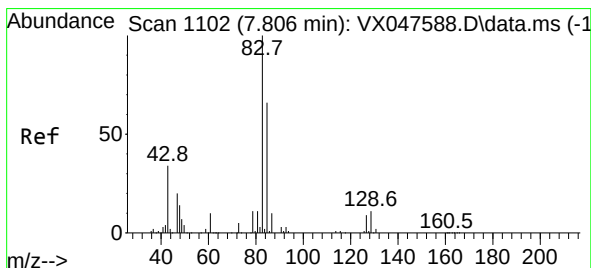
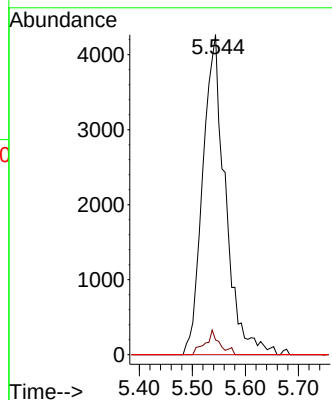
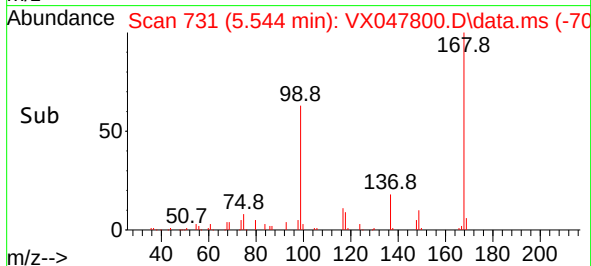


#38
Carbon Tetrachloride
Concen: 4.728 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20250919

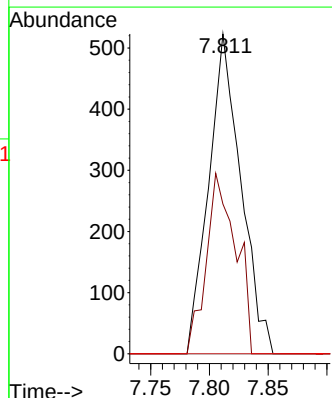
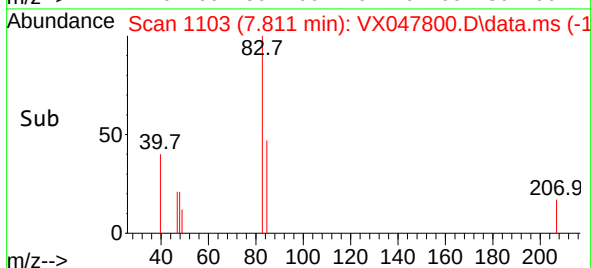
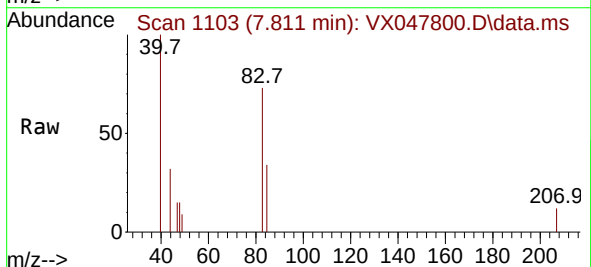


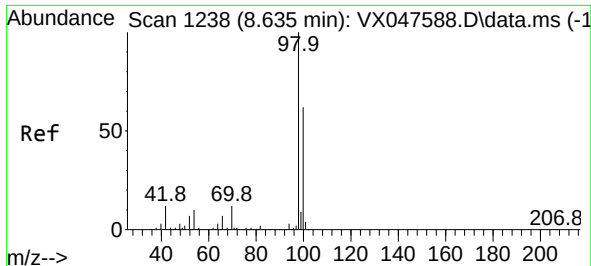
Tgt Ion:117 Resp: 12642
Ion Ratio Lower Upper
117 100
119 4.6 73.4 110.2#
121 0.0 23.8 35.6#



#47
Bromodichloromethane
Concen: 0.348 ug/l
RT: 7.811 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 83 Resp: 999
Ion Ratio Lower Upper
83 100
85 46.8 52.5 78.7#
127 0.0 6.9 10.3#

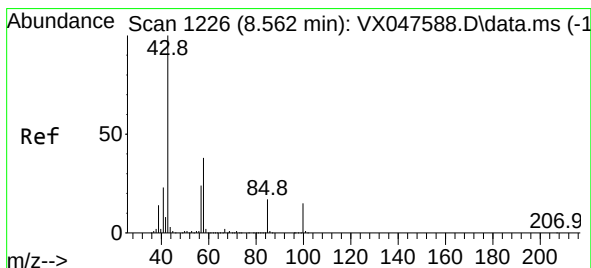
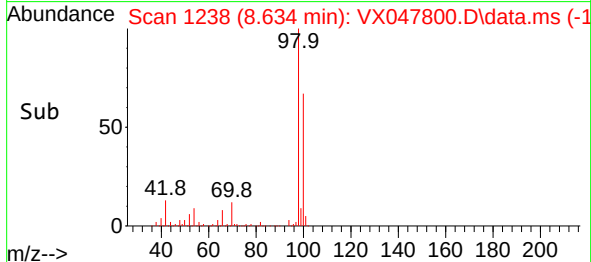
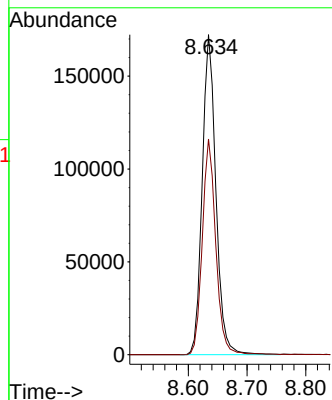
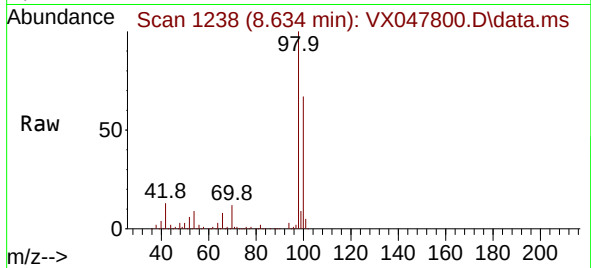




#50
Toluene-d8
Concen: 47.795 ug/l
RT: 8.634 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

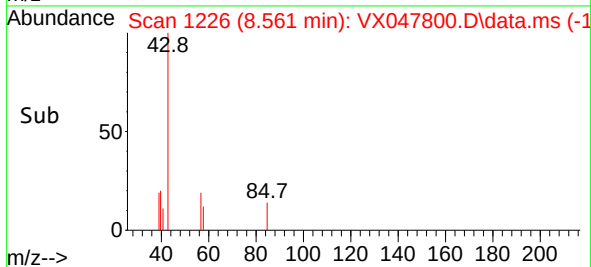
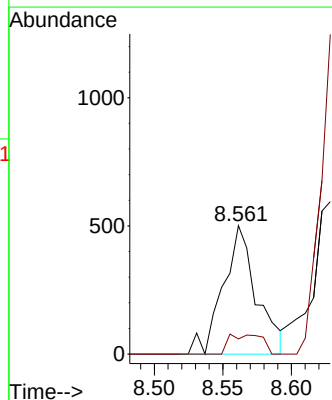
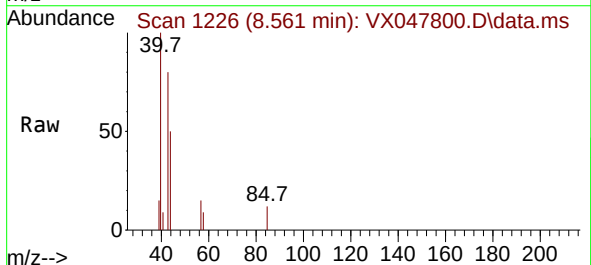
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20250919

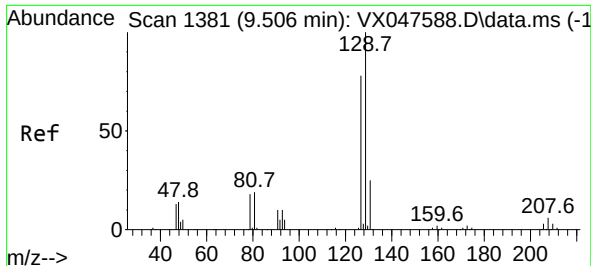
Tgt Ion: 98 Resp: 278502
Ion Ratio Lower Upper
98 100
100 66.5 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.356 ug/l
RT: 8.561 min Scan# 1226
Delta R.T. -0.000 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 43 Resp: 852
Ion Ratio Lower Upper
43 100
58 15.0 30.3 45.5#

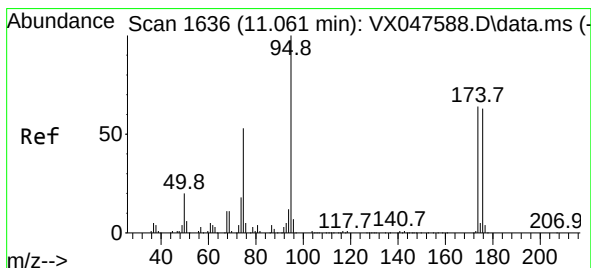
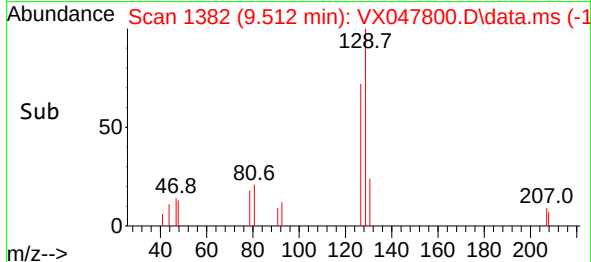
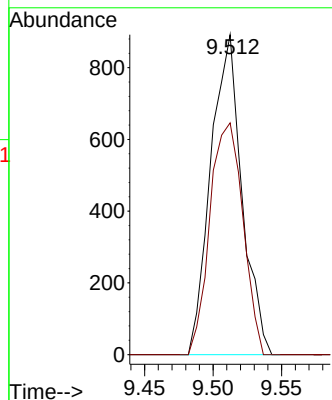
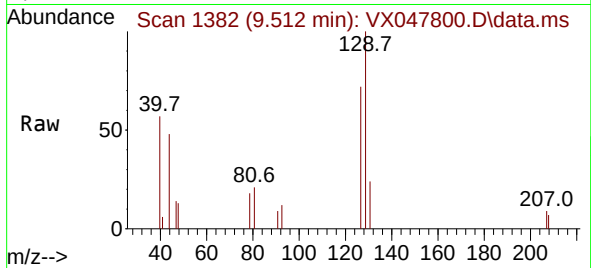




#60
Dibromochloromethane
Concen: 0.689 ug/l
RT: 9.512 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

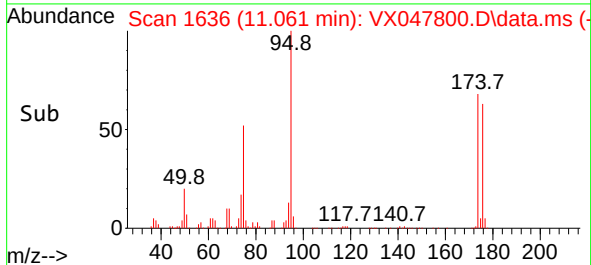
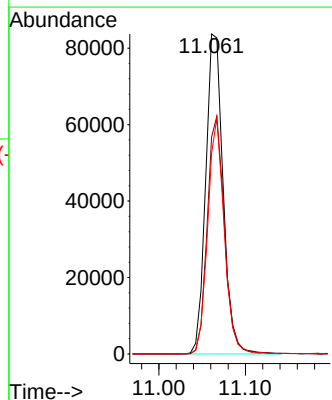
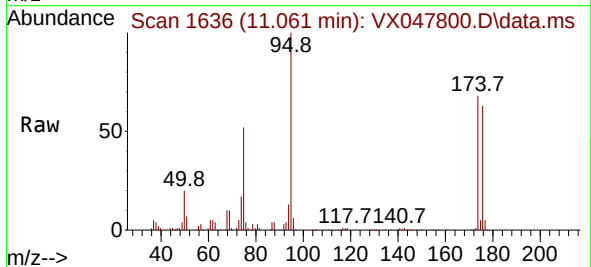
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20250919

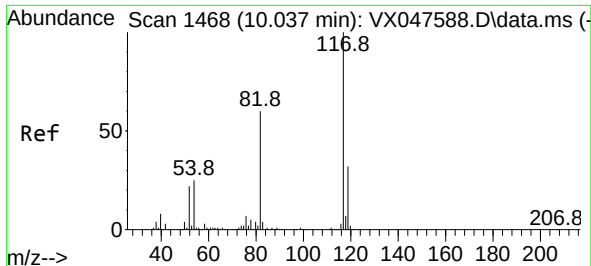
Tgt Ion:129 Resp: 1410
Ion Ratio Lower Upper
129 100
127 76.7 38.4 115.2



#62
4-Bromofluorobenzene
Concen: 52.830 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 95 Resp: 116832
Ion Ratio Lower Upper
95 100
174 73.9 0.0 141.6
176 69.9 0.0 138.4

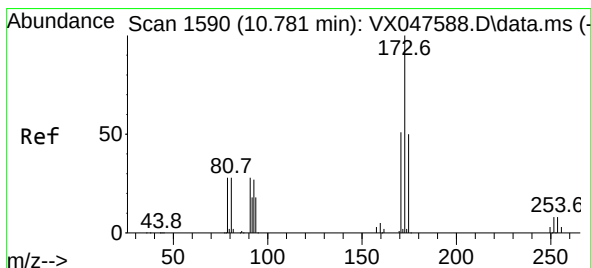
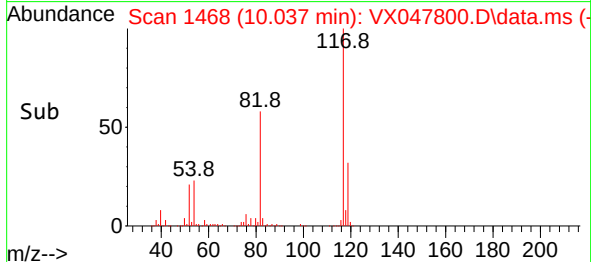
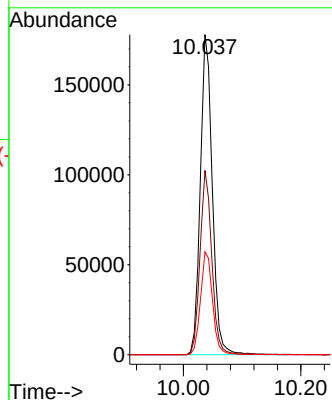
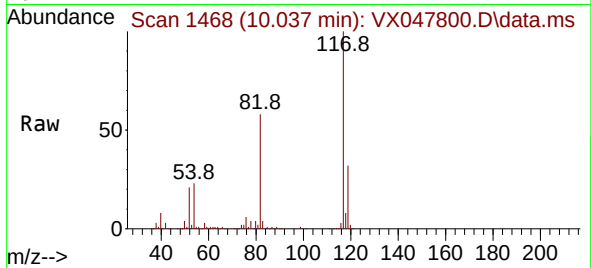




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

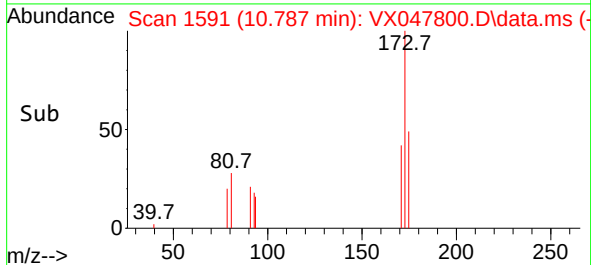
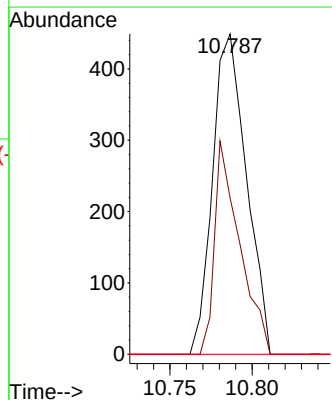
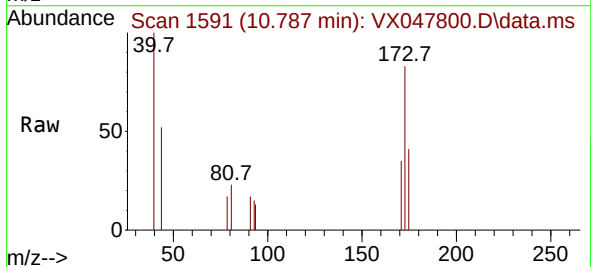
Instrument : MSVOA_X
ClientSampleId : VPB184-HYD-20250919

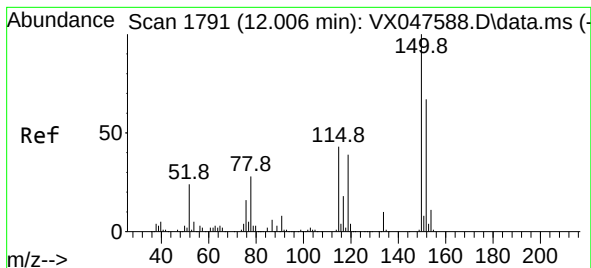
Tgt Ion:	117	Resp:	252620
Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.8	71.6
119	32.1	25.2	37.8



#71
Bromoform
Concen: 0.435 ug/l
RT: 10.787 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion:	173	Resp:	643
Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.9	74.6
254	0.0	0.1	0.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047800.D

Acq: 25 Sep 2025 11:03

Instrument :

MSVOA_X

ClientSampleId :

VPB184-HYD-20250919

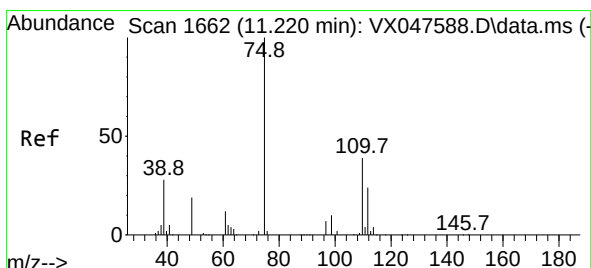
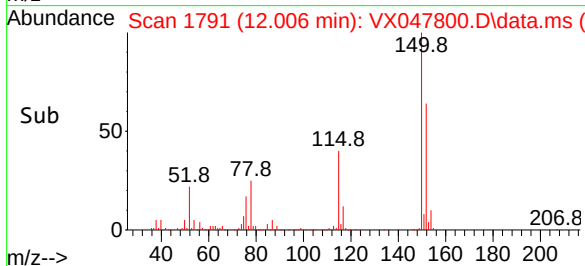
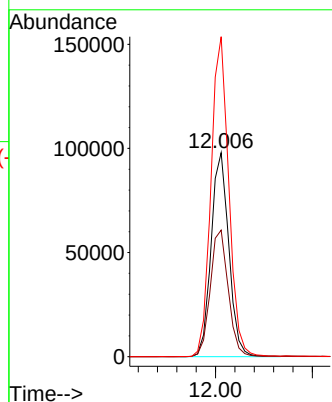
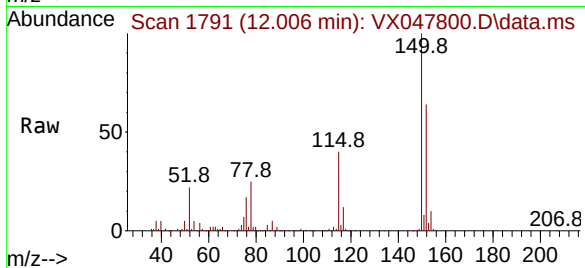
Tgt Ion:152 Resp: 124631

Ion Ratio Lower Upper

152 100

115 63.1 44.9 134.5

150 158.3 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 23.833 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX047800.D

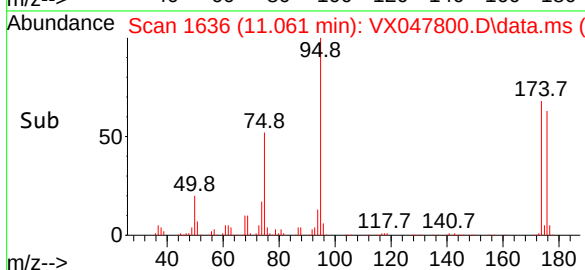
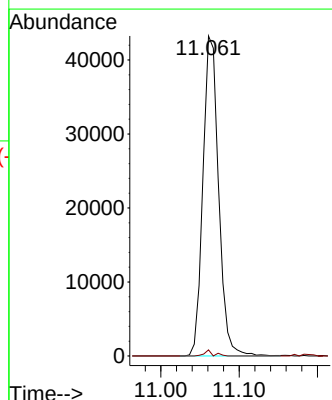
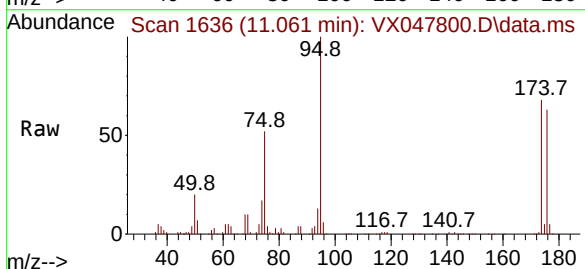
Acq: 25 Sep 2025 11:03

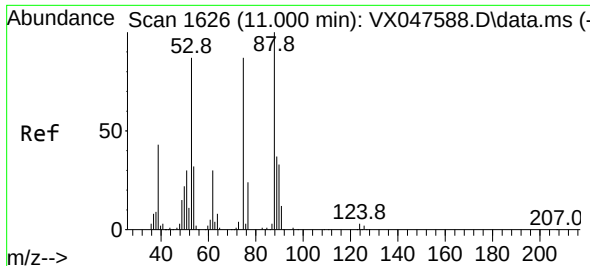
Tgt Ion: 75 Resp: 60140

Ion Ratio Lower Upper

75 100

77 1.0 18.8 56.4#

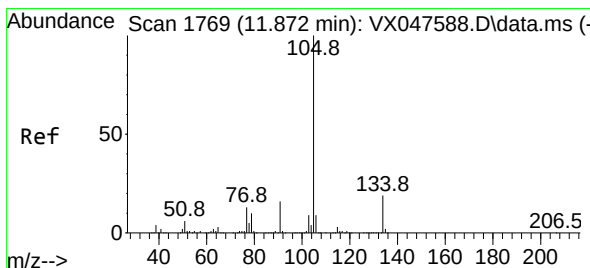
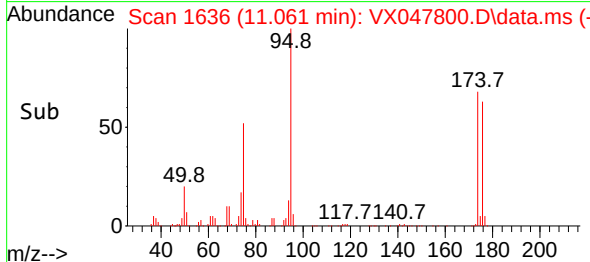
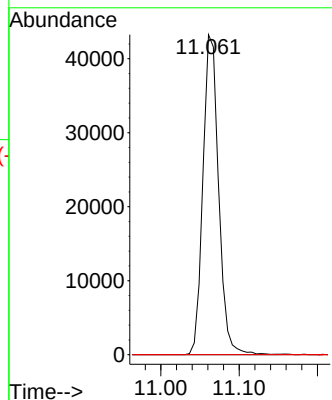
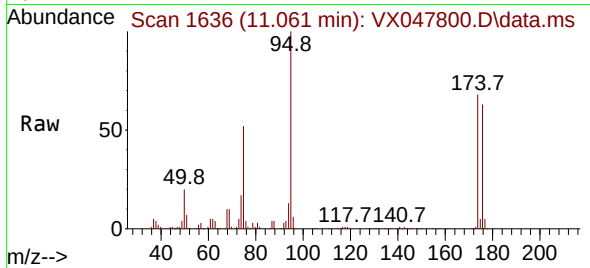




#81
trans-1,4-Dichloro-2-butene
Concen: 60.778 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

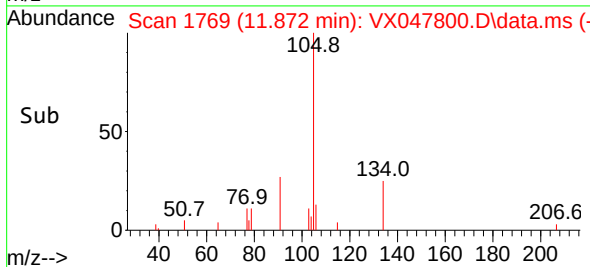
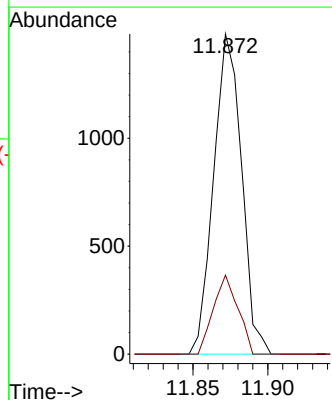
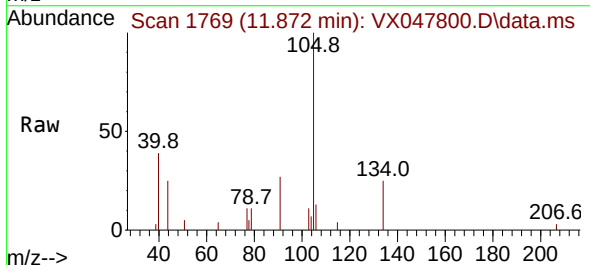
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20250919

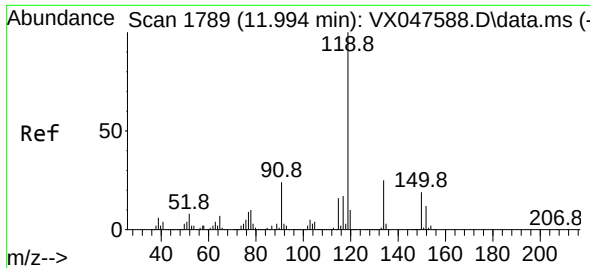
Tgt Ion: 75 Resp: 60140
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#85
sec-Butylbenzene
Concen: 0.203 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 105 Resp: 1925
Ion Ratio Lower Upper
105 100
134 21.6 9.8 29.5

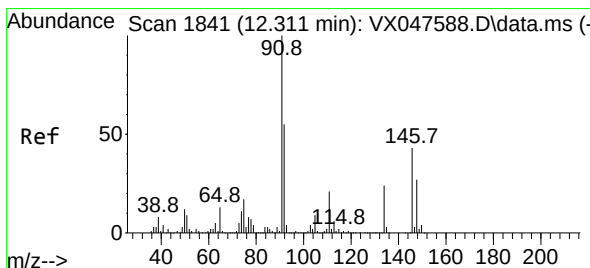
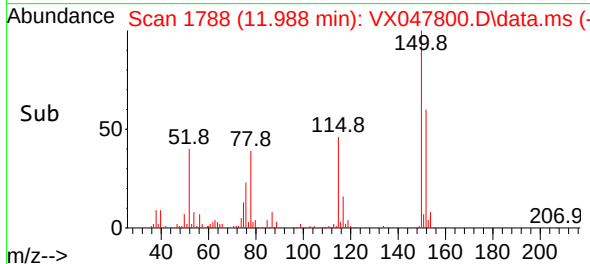
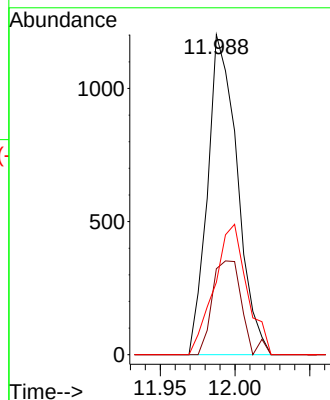
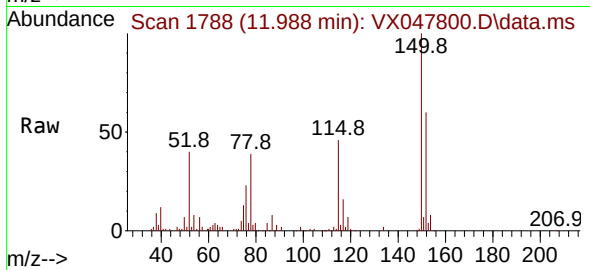




#86
p-Isopropyltoluene
Concen: 0.207 ug/l
RT: 11.988 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

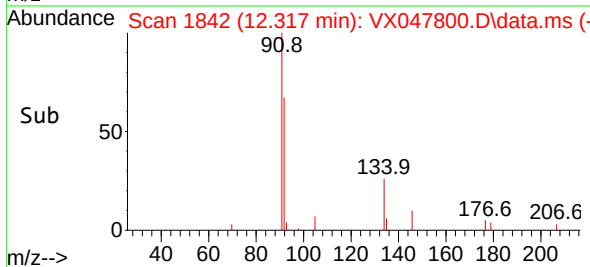
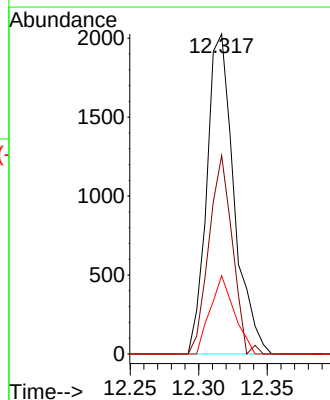
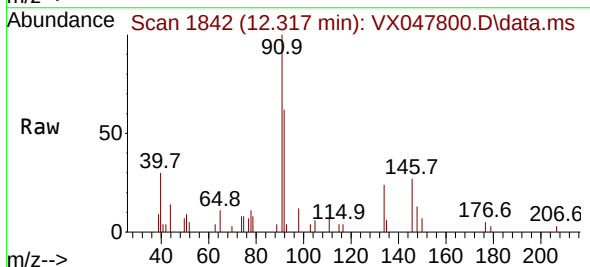
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20250919

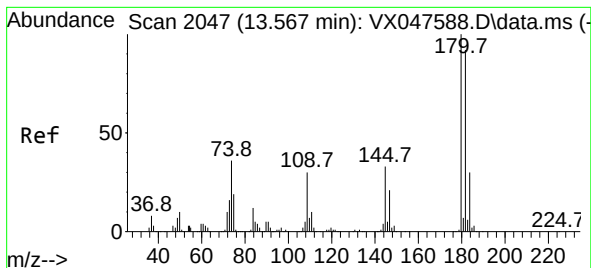
Tgt Ion:119	Resp:	1659
Ion	Ratio	Lower Upper
119	100	
134	29.2	12.6 37.8
91	44.8	12.6 37.6#



#89
n-Butylbenzene
Concen: 0.378 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion: 91	Resp:	2803
Ion	Ratio	Lower Upper
91	100	
92	53.4	27.6 82.7
134	21.5	12.6 37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.633 ug/l

RT: 13.573 min Scan# 2047

Delta R.T. 0.006 min

Lab File: VX047800.D

Acq: 25 Sep 2025 11:03

Instrument :

MSVOA_X

ClientSampleId :

VPB184-HYD-20250919

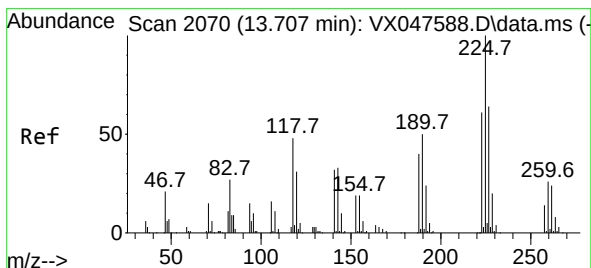
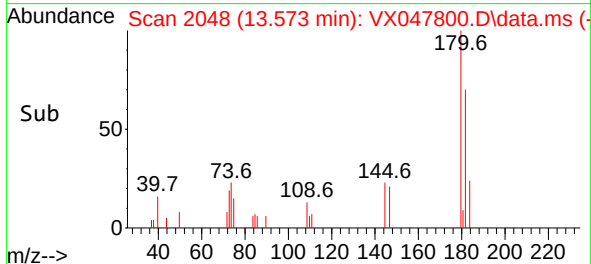
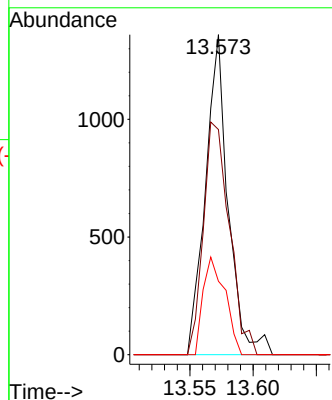
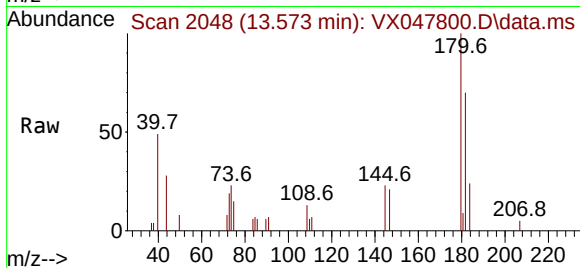
Tgt Ion:180 Resp: 1700

Ion Ratio Lower Upper

180 100

182 83.3 46.6 139.8

145 29.4 16.4 49.1



#94

Hexachlorobutadiene

Concen: 1.376 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX047800.D

Acq: 25 Sep 2025 11:03

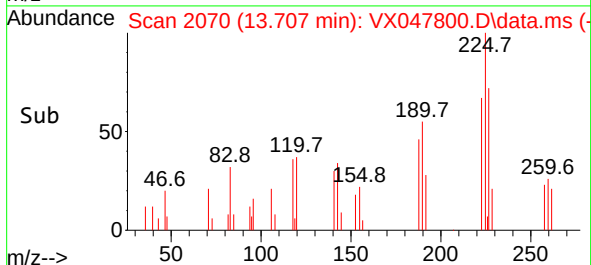
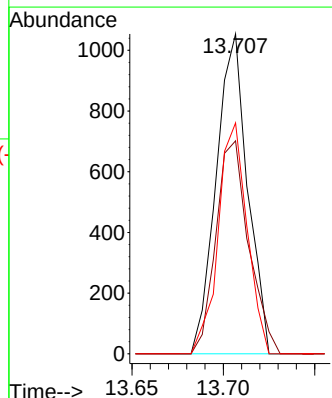
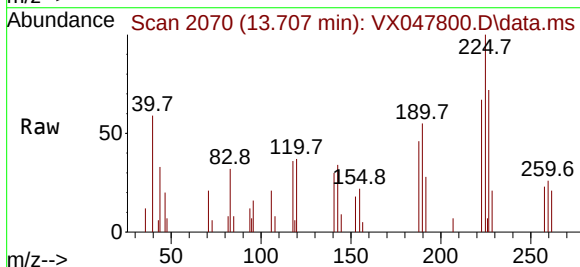
Tgt Ion:225 Resp: 1254

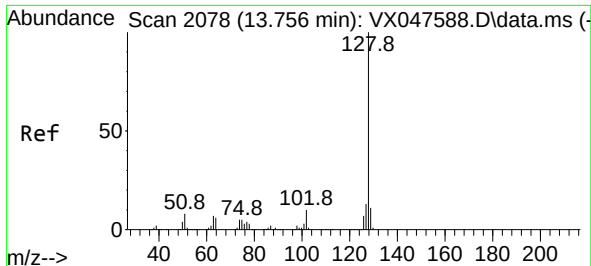
Ion Ratio Lower Upper

225 100

223 70.2 31.7 95.1

227 66.8 32.0 96.0

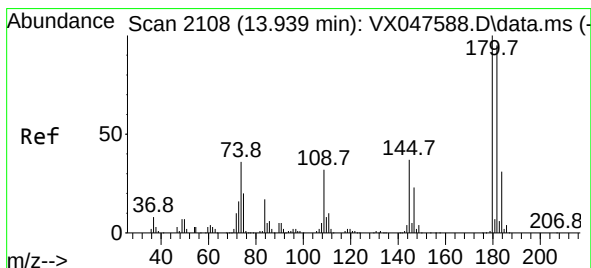
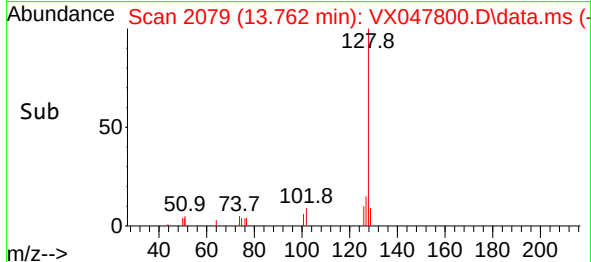
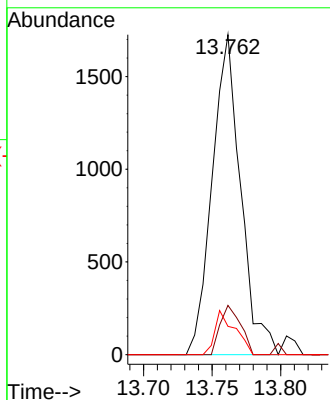
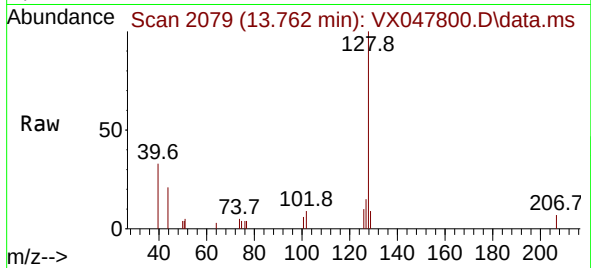




#95
Naphthalene
Concen: 0.305 ug/l
RT: 13.762 min Scan# 2078
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20250919

Tgt Ion:	128	Resp:	2491
Ion Ratio	Lower	Upper	
128	100		
127	11.0	10.2	15.2
129	9.7	8.8	13.2



#96
1,2,3-Trichlorobenzene
Concen: 0.560 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047800.D
Acq: 25 Sep 2025 11:03

Tgt Ion:	180	Resp:	1398
Ion Ratio	Lower	Upper	
180	100		
182	103.7	47.6	142.8
145	31.3	17.9	53.7

