

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048241.D
 Acq On : 20 Oct 2025 16:18
 Operator : JC/MD
 Sample : Q3371-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VPB184-HYD-20251010

Quant Time: Oct 25 03:40:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

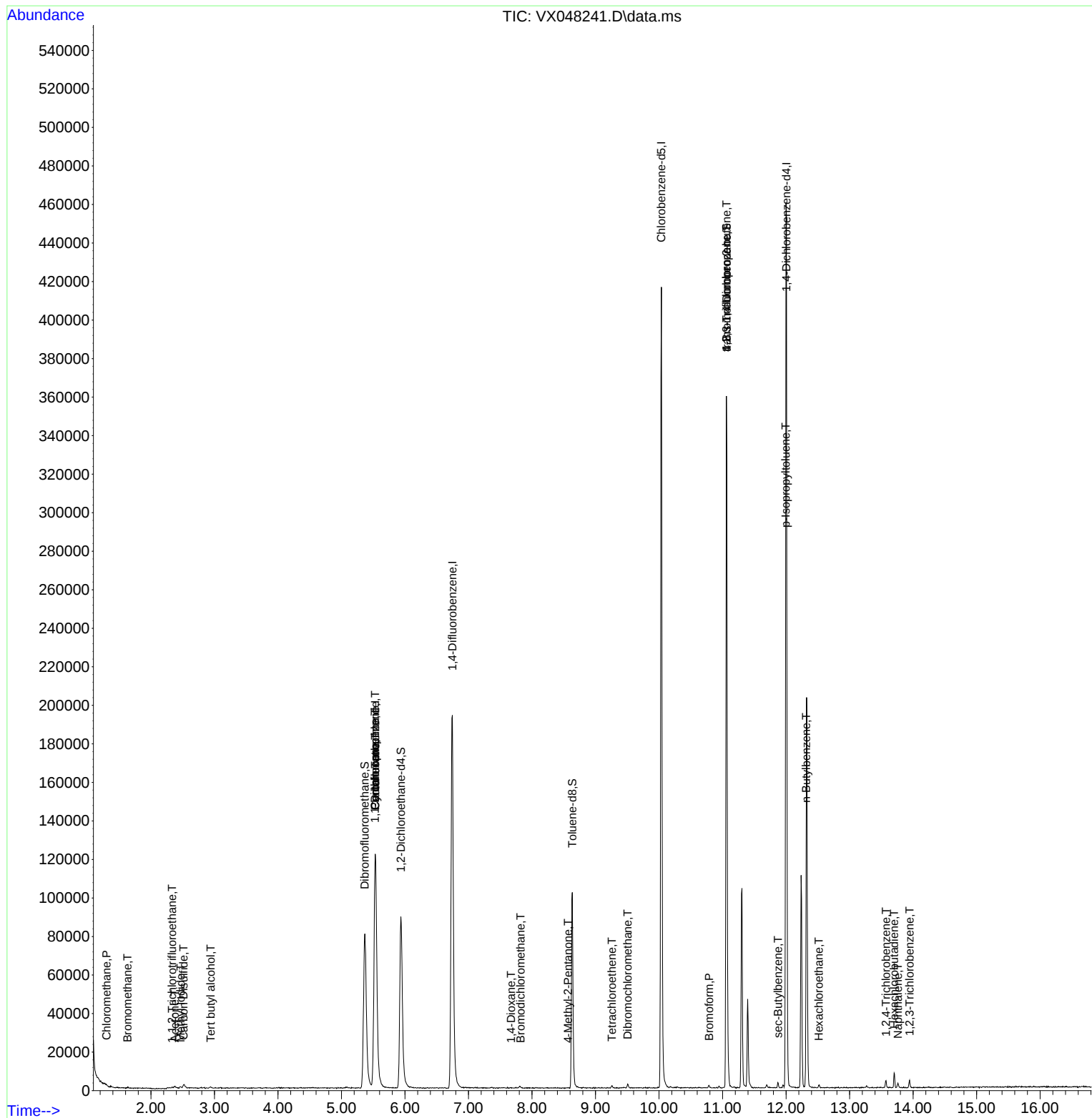
Internal Standards						
1) Pentafluorobenzene	5.532	168	127530	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	218641	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	203489	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	103207	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	99453	55.621	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.240%			
35) Dibromofluoromethane	5.367	113	78492	52.586	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.180%			
50) Toluene-d8	8.635	98	66280	12.668	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 25.340%#			
62) 4-Bromofluorobenzene	11.061	95	101289	50.890	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.780%			
Target Compounds					Qvalue	
3) Chloromethane	1.301	50	400	0.327	ug/l	94
5) Bromomethane	1.630	94	224	0.291	ug/l #	43
9) 1,1,2-Trichlorotrifluo...	2.331	101	276	0.201	ug/l #	72
10) Methyl Iodide	2.465	142	906	0.524	ug/l #	82
11) Tert butyl alcohol	2.941	59	256	1.442	ug/l #	72
16) Acetone	2.374	43	1406	2.292	ug/l #	85
17) Carbon Disulfide	2.514	76	1419	0.336	ug/l #	89
31) Cyclohexane	5.532	56	2222	1.001	ug/l #	11
36) 1,1-Dichloropropene	5.525	75	9584	4.517	ug/l #	49
38) Carbon Tetrachloride	5.532	117	13334	5.094	ug/l #	16
47) Bromodichloromethane	7.818	83	714	0.290	ug/l #	84
49) 1,4-Dioxane	7.671	88	21	1.091	ug/l #	1
51) 4-Methyl-2-Pentanone	8.568	43	336	0.202	ug/l #	38
60) Dibromochloromethane	9.506	129	1096	0.560	ug/l	100
64) Tetrachloroethene	9.256	164	317	0.209	ug/l #	52
71) Bromoform	10.787	173	562	0.418	ug/l #	81
76) 1,2,3-Trichloropropane	11.061	75	52562	31.405	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	52562	76.407	ug/l #	10
85) sec-Butylbenzene	11.872	105	1674	0.217	ug/l	89
86) p-Isopropyltoluene	11.994	119	1352	0.203	ug/l #	79
89) n-Butylbenzene	12.317	91	2319	0.382	ug/l	97
90) Hexachloroethane	12.518	117	294	0.223	ug/l	81
93) 1,2,4-Trichlorobenzene	13.573	180	1211	0.535	ug/l	97
94) Hexachlorobutadiene	13.701	225	1023	1.272	ug/l	96
95) Naphthalene	13.762	128	2006	0.335	ug/l #	95
96) 1,2,3-Trichlorobenzene	13.945	180	1077	0.519	ug/l	98

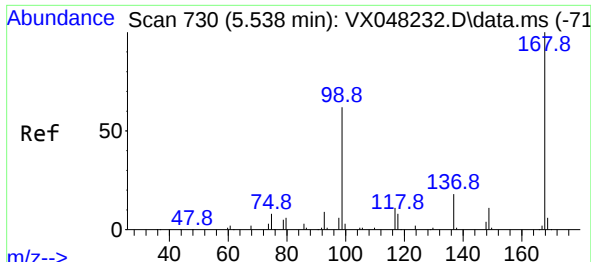
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048241.D
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Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

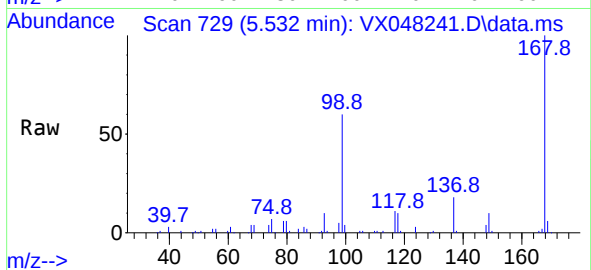
Quant Time: Oct 25 03:40:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



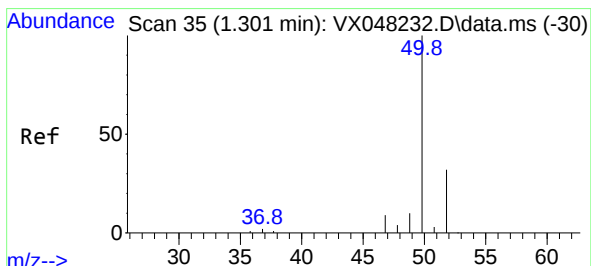
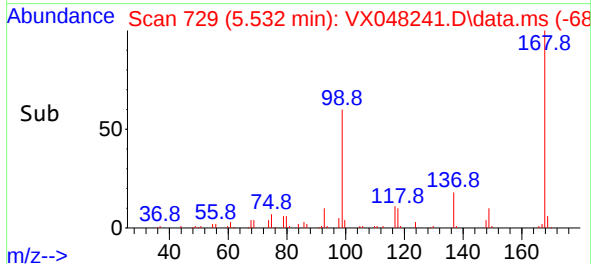
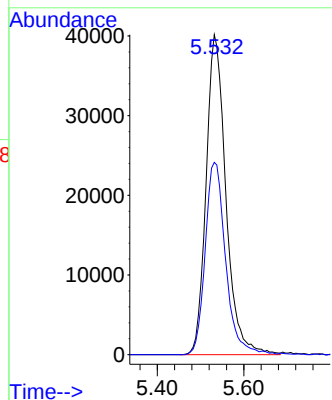


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

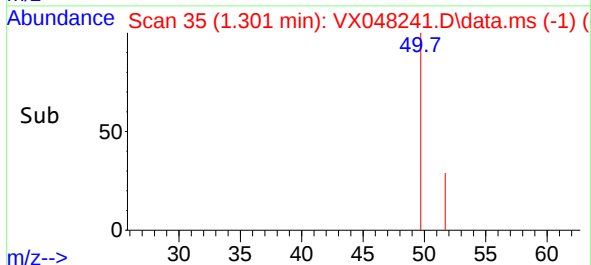
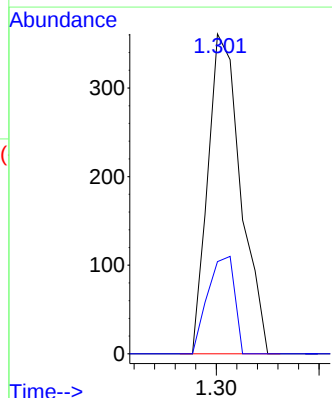
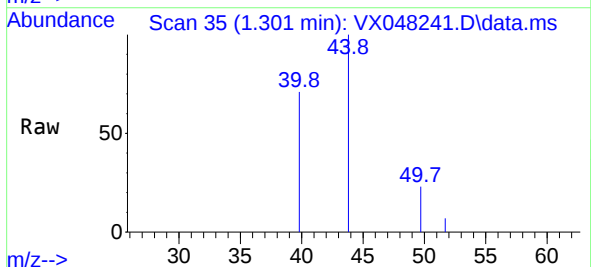


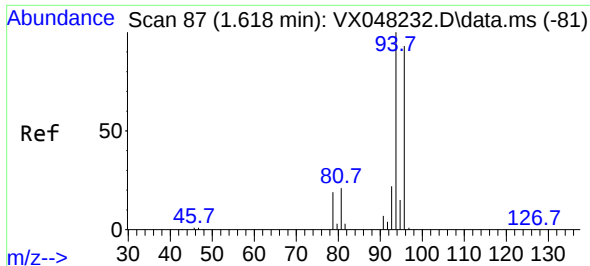
Tgt Ion:168 Resp: 127530
Ion Ratio Lower Upper
168 100
99 60.1 46.4 69.6



#3
Chloromethane
Concen: 0.327 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 50 Resp: 400
Ion Ratio Lower Upper
50 100
52 28.8 25.9 38.9

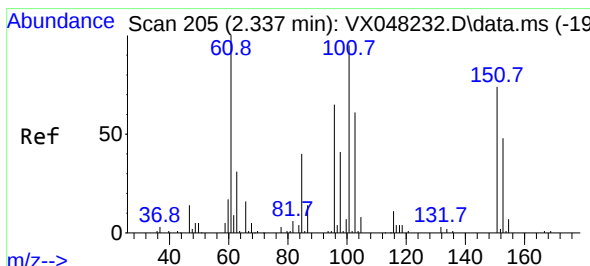
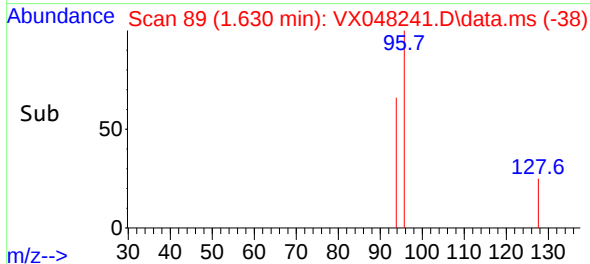
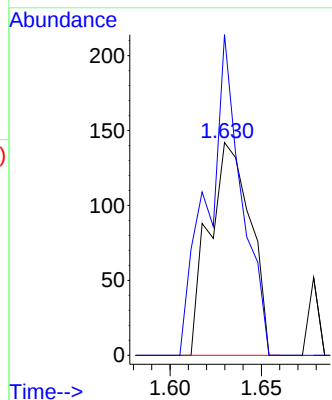
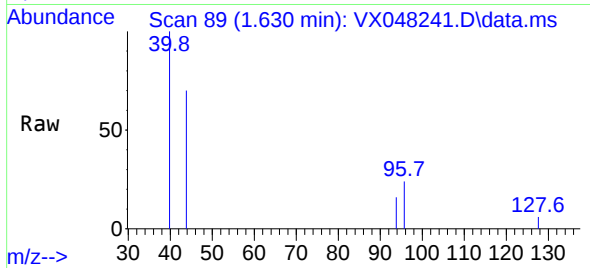




#5
Bromomethane
Concen: 0.291 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

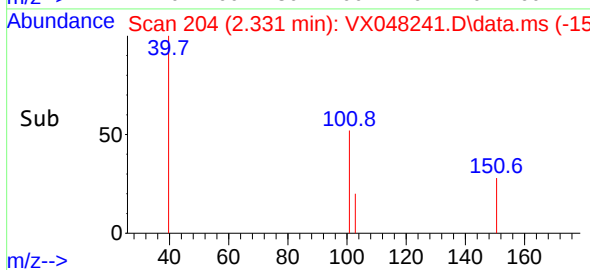
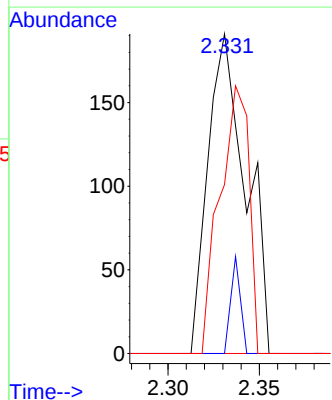
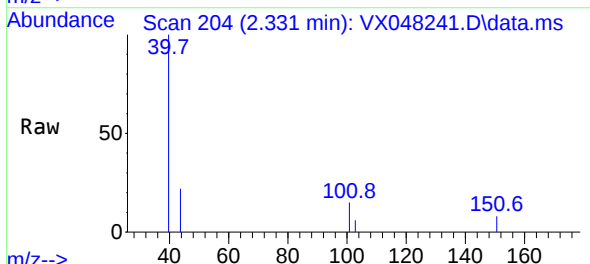
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

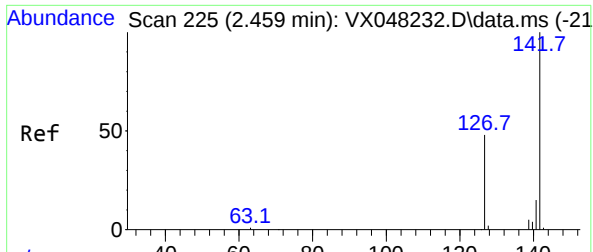
Tgt Ion: 94 Resp: 224
Ion Ratio Lower Upper
94 100
96 150.7 76.0 114.0#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.201 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 101 Resp: 276
Ion Ratio Lower Upper
101 100
85 7.6 35.6 53.4#
151 64.5 58.0 87.0

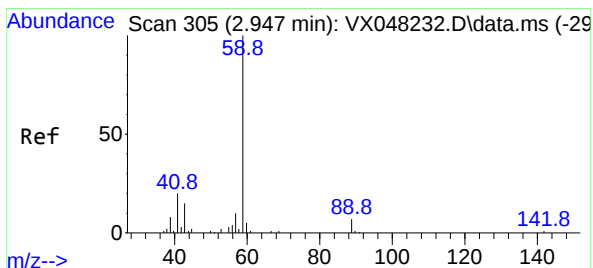
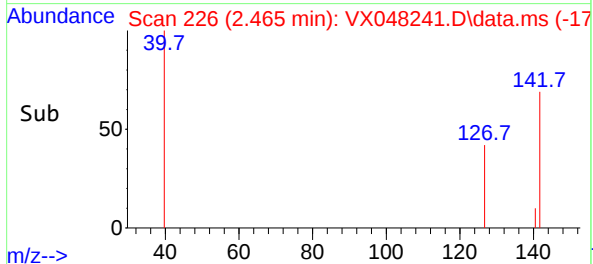
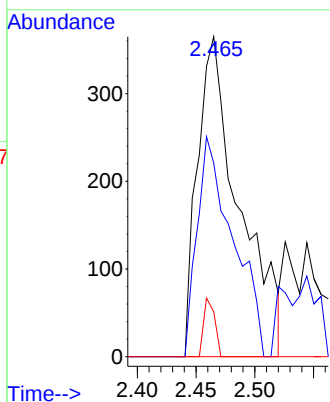
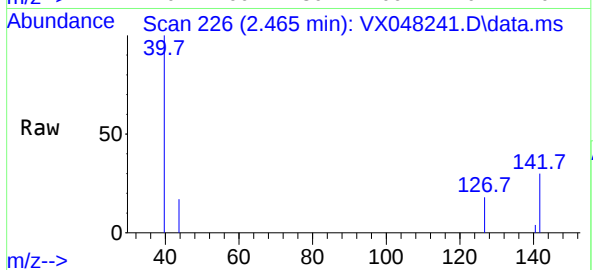




#10
Methyl Iodide
Concen: 0.524 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

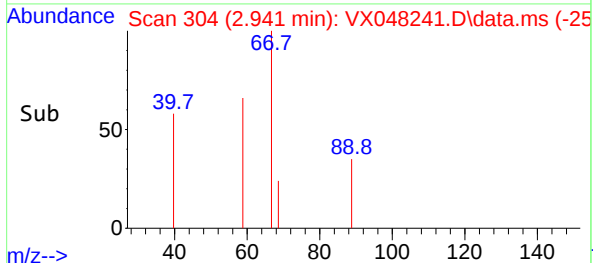
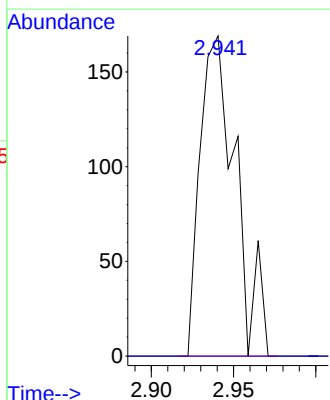
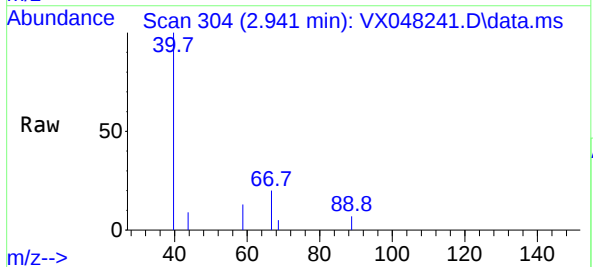
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

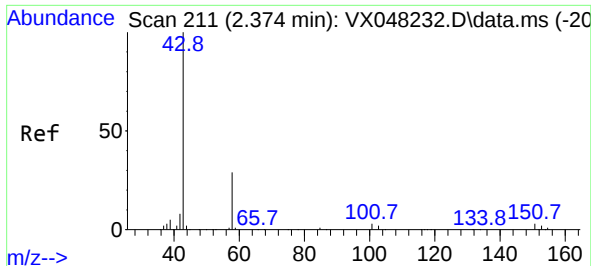
Tgt Ion:	142	Resp:	906
Ion	Ratio	Lower	Upper
142	100		
127	58.8	38.5	57.7#
141	4.7	11.6	17.4#



#11
Tert butyl alcohol
Concen: 1.442 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.000 min
Lab File: VX048241.D
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Tgt Ion:	59	Resp:	256
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#

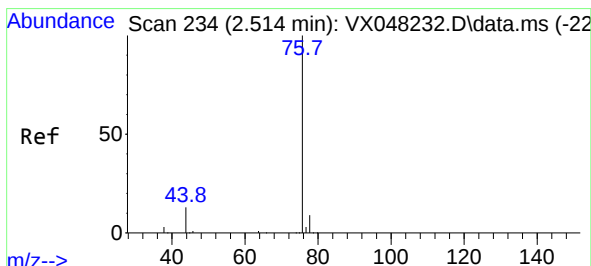
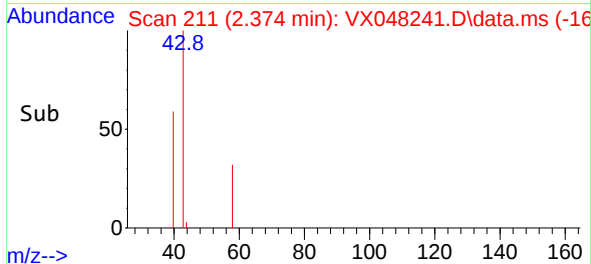
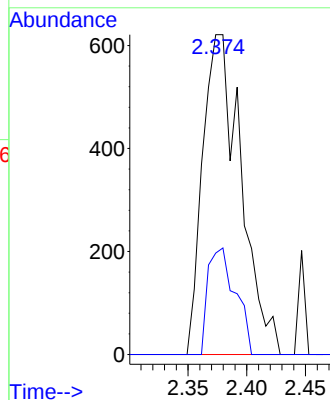
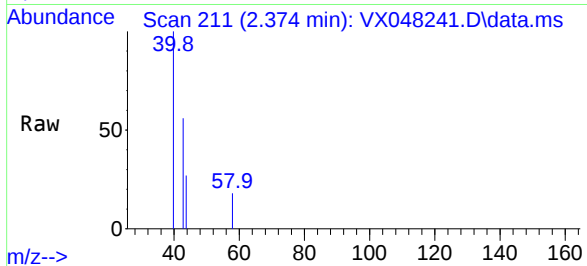




#16
Acetone
Concen: 2.292 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

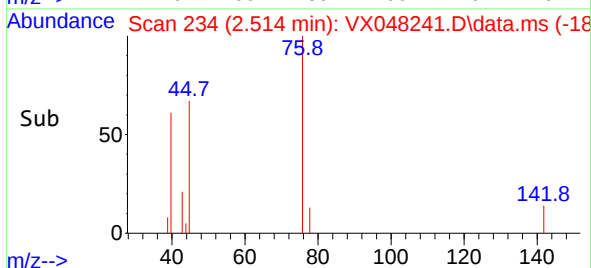
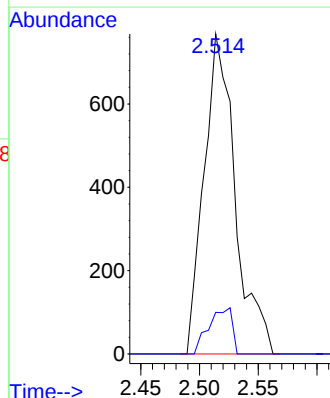
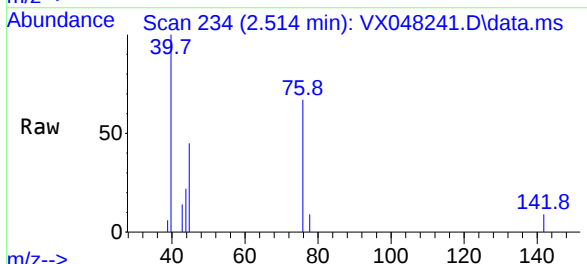
Instrument : MSVOA_X
ClientSampleId : VPB184-HYD-20251010

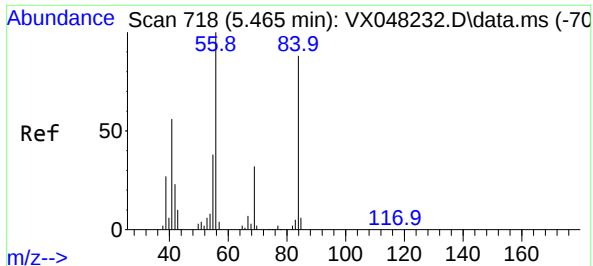
Tgt Ion: 43 Resp: 1406
Ion Ratio Lower Upper
43 100
58 21.4 23.4 35.2#



#17
Carbon Disulfide
Concen: 0.336 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 76 Resp: 1419
Ion Ratio Lower Upper
76 100
78 13.0 7.1 10.7#

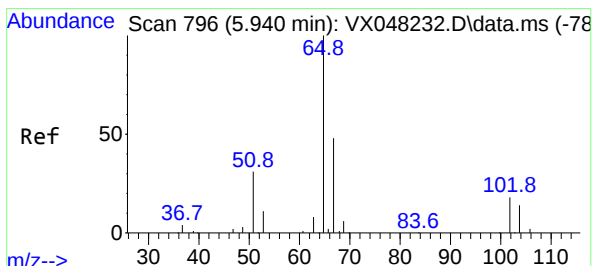
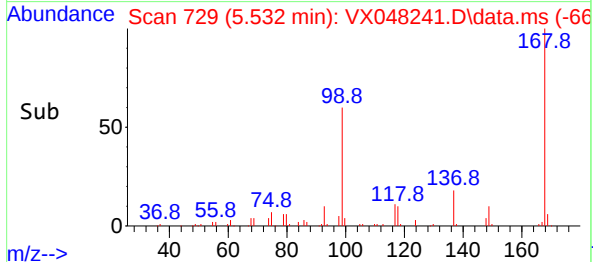
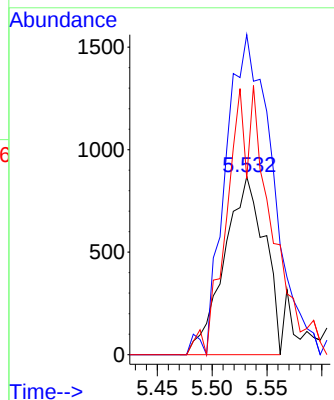
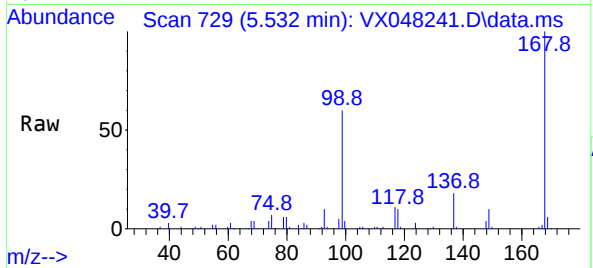




#31
Cyclohexane
Concen: 1.001 ug/l
RT: 5.532 min Scan# 718
Delta R.T. 0.073 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

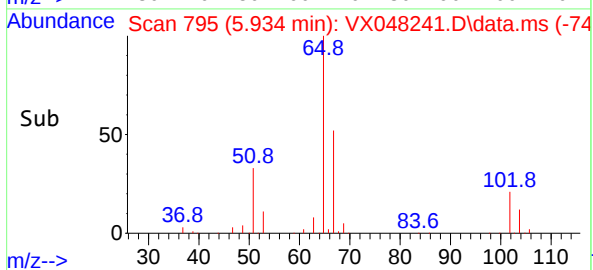
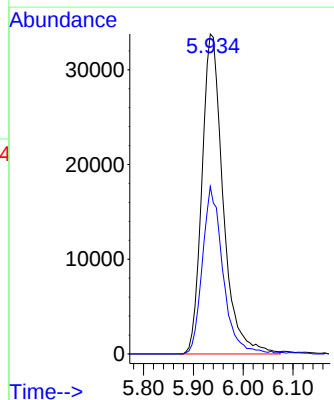
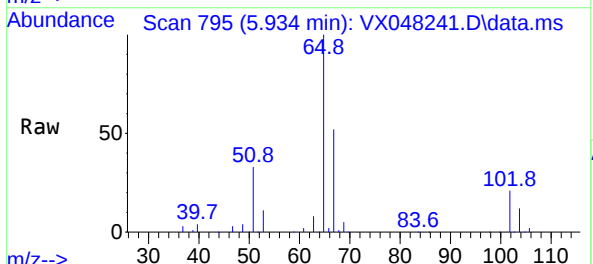
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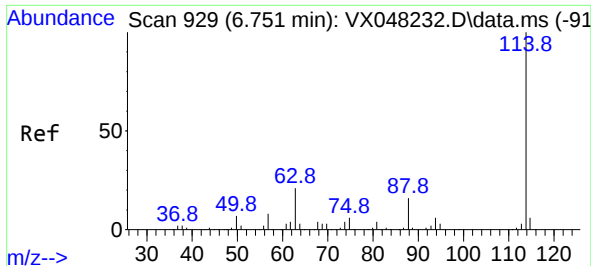
Tgt Ion: 56 Resp: 2222
Ion Ratio Lower Upper
56 100
69 179.6 23.0 34.6#
84 98.8 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 55.621 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 65 Resp: 99453
Ion Ratio Lower Upper
65 100
67 50.6 0.0 105.0

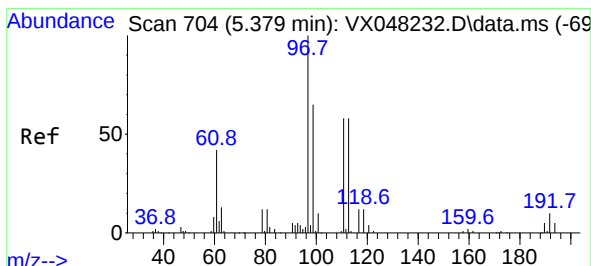
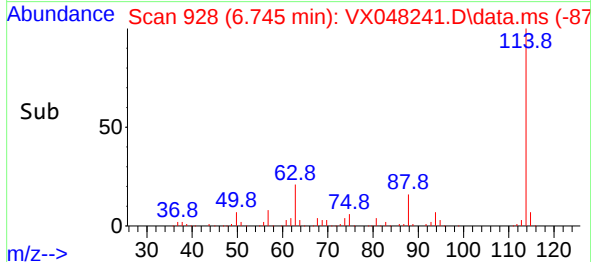
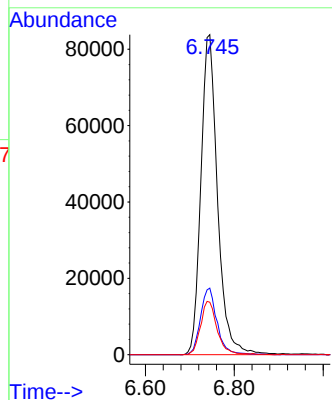
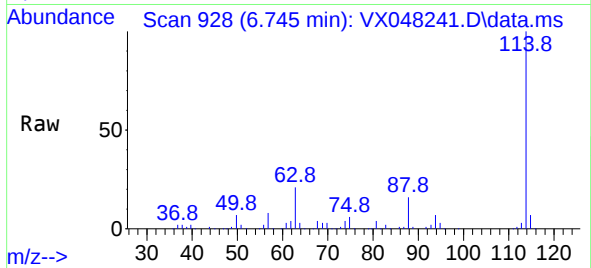




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

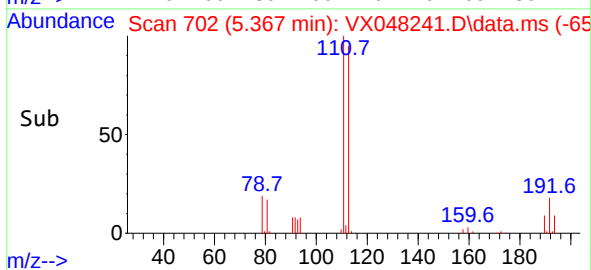
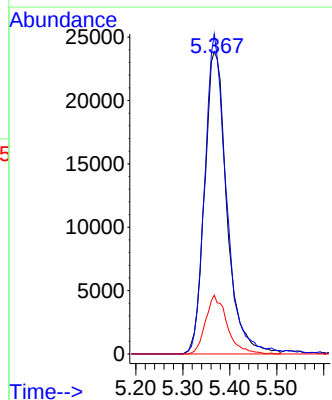
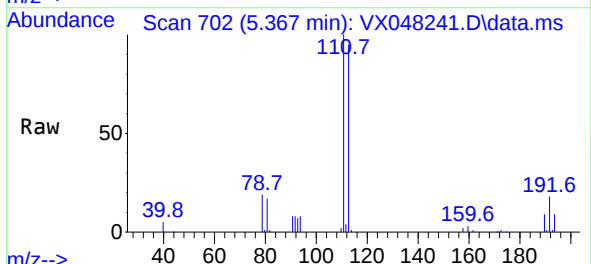
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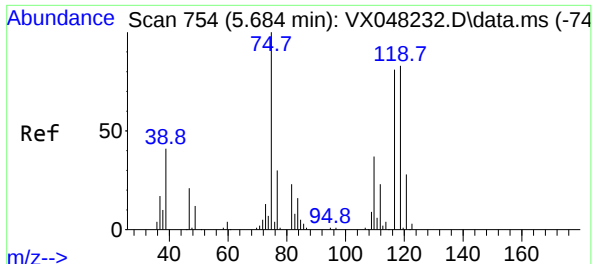
Tgt Ion:114 Resp: 218641
Ion Ratio Lower Upper
114 100
63 20.8 0.0 43.2
88 16.4 0.0 33.6



#35
Dibromofluoromethane
Concen: 52.586 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion:113 Resp: 78492
Ion Ratio Lower Upper
113 100
111 102.3 82.2 123.4
192 18.7 15.1 22.7

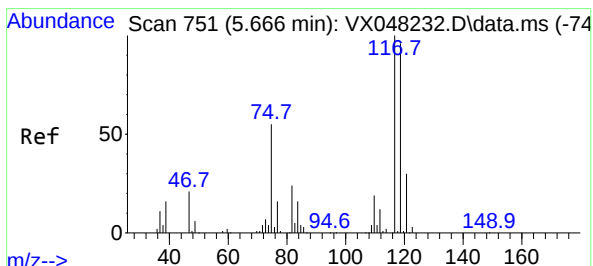
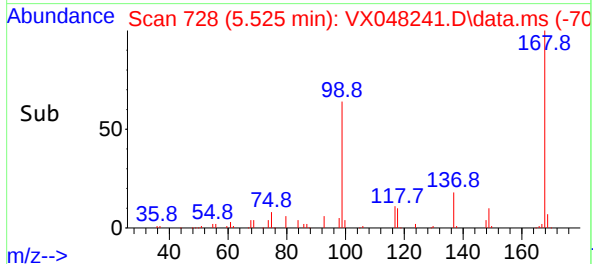
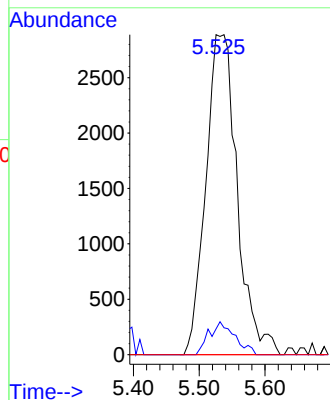
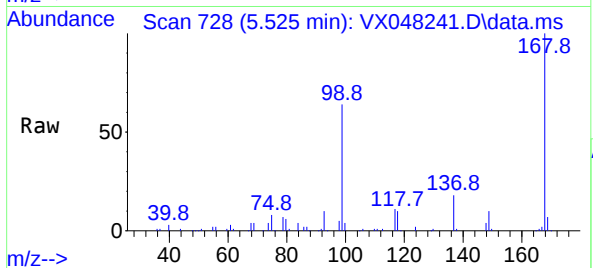




#36
1,1-Dichloropropene
Concen: 4.517 ug/l
RT: 5.525 min Scan# 71
Delta R.T. -0.159 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

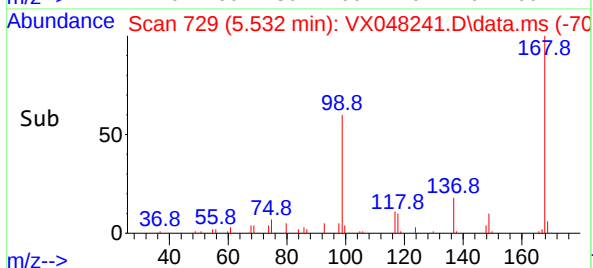
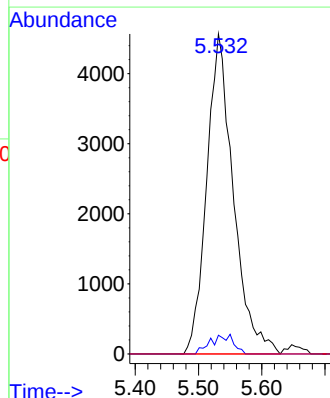
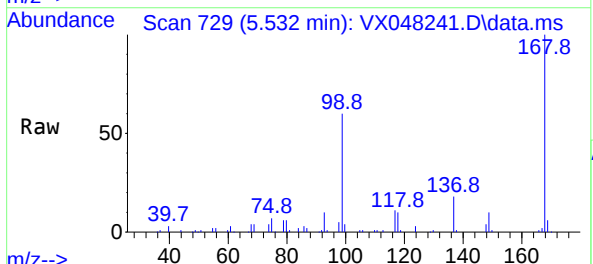
Instrument :
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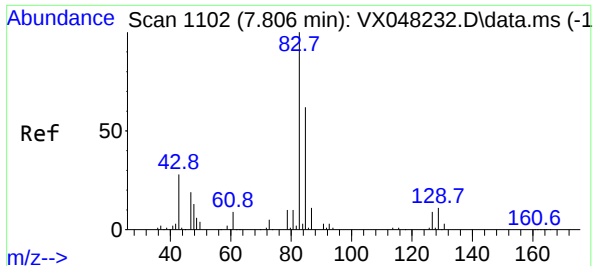
Tgt Ion: 75 Resp: 9584
Ion Ratio Lower Upper
75 100
110 8.5 17.7 53.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 5.094 ug/l
RT: 5.532 min Scan# 729
Delta R.T. -0.134 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 117 Resp: 13334
Ion Ratio Lower Upper
117 100
119 5.9 77.2 115.8#
121 0.0 24.8 37.2#





#47

Bromodichloromethane

Concen: 0.290 ug/l

RT: 7.818 min Scan# 11

Delta R.T. 0.012 min

Lab File: VX048241.D

Acq: 20 Oct 2025 16:18

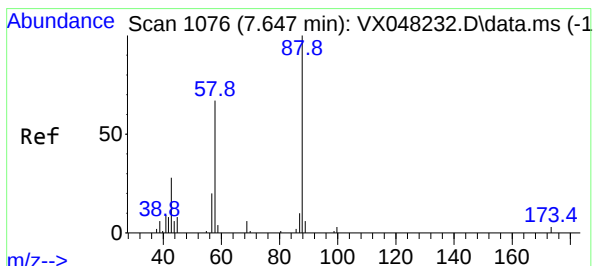
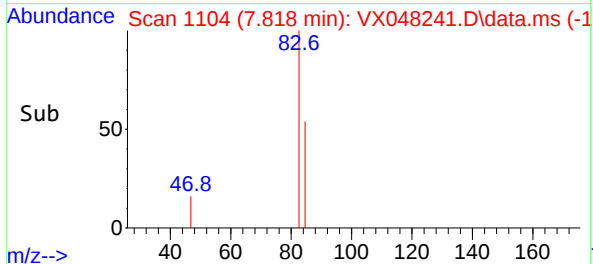
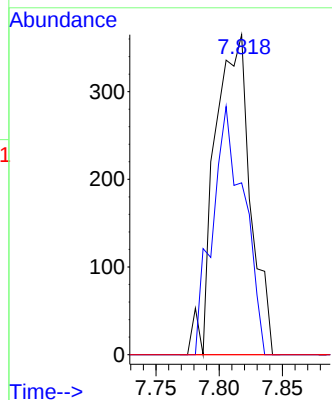
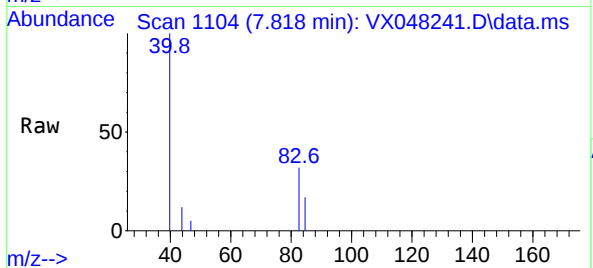
Instrument :

MSVOA_X

ClientSampleId :

VPB184-HYD-20251010

Tgt Ion: 83	Resp:	714
Ion	Ratio	Lower Upper
83	100	
85	53.7	52.2 78.4
127	0.0	7.3 10.9



#49

1,4-Dioxane

Concen: 1.091 ug/l

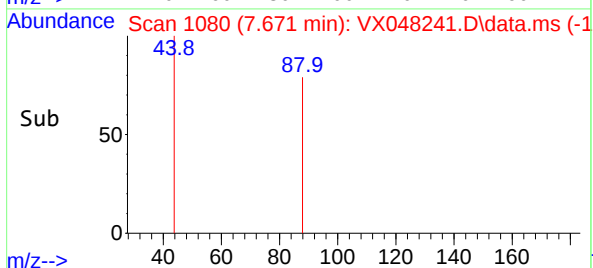
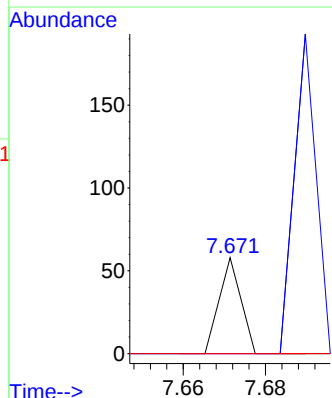
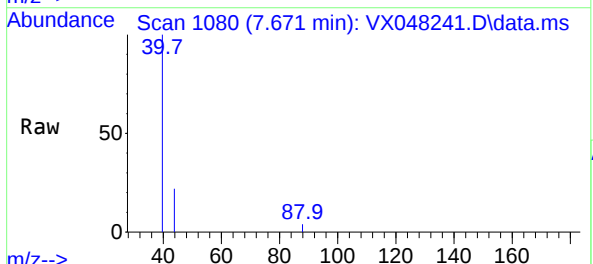
RT: 7.671 min Scan# 1080

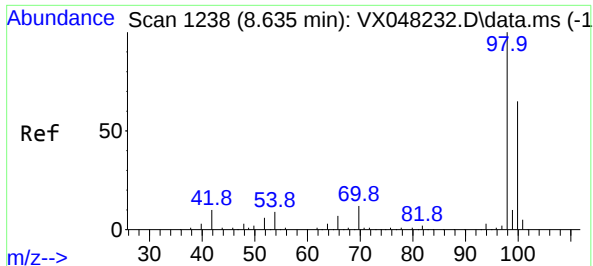
Delta R.T. 0.030 min

Lab File: VX048241.D

Acq: 20 Oct 2025 16:18

Tgt Ion: 88	Resp:	21
Ion	Ratio	Lower Upper
88	100	
43	338.1	35.0 52.4
58	0.0	61.9 92.9

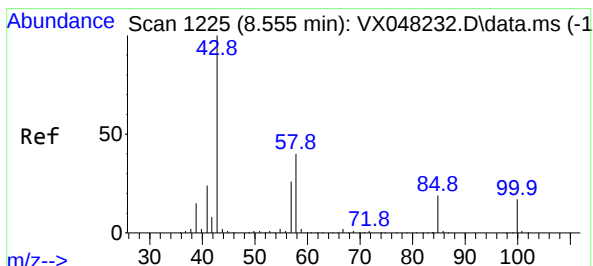
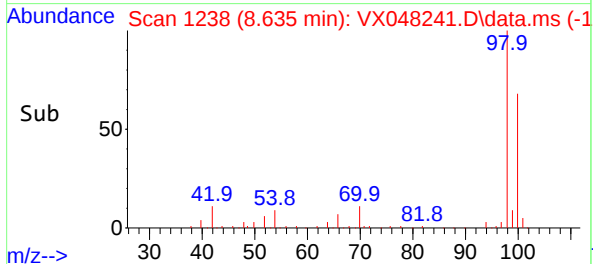
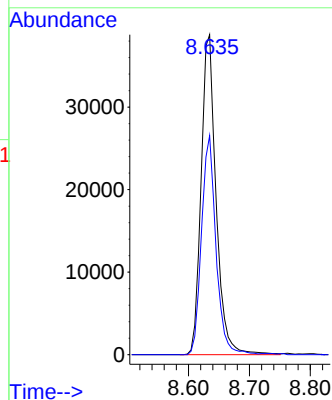
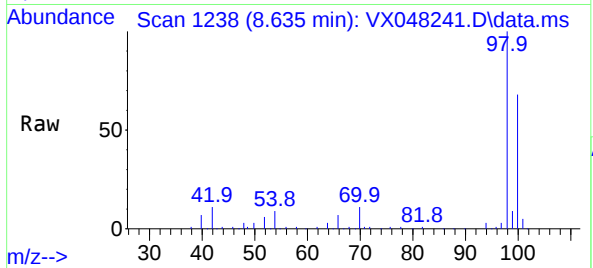




#50
Toluene-d8
Concen: 12.668 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

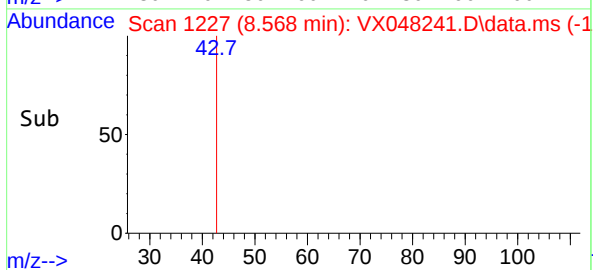
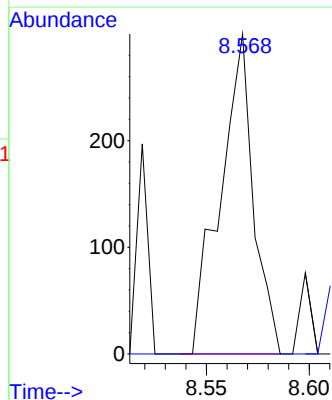
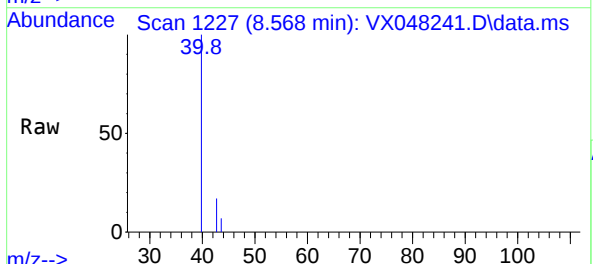
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

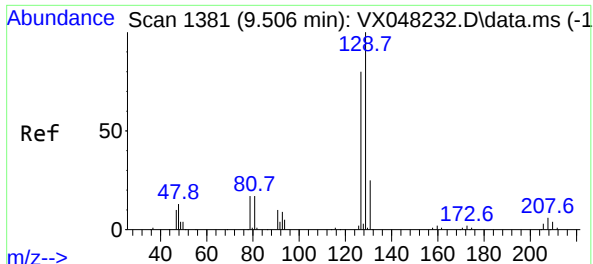
Tgt Ion: 98 Resp: 66280
Ion Ratio Lower Upper
98 100
100 66.2 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.202 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. 0.012 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 43 Resp: 336
Ion Ratio Lower Upper
43 100
58 0.0 29.5 44.3#

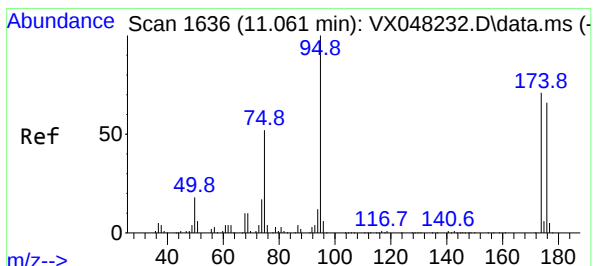
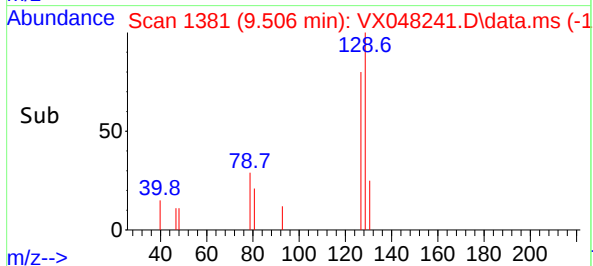
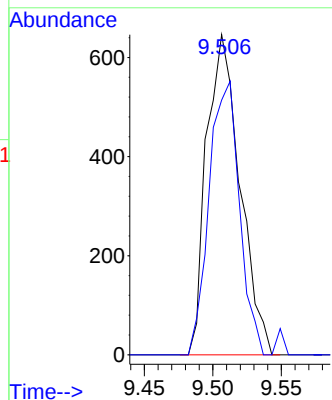
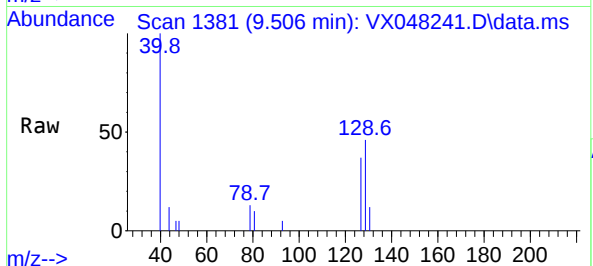




#60
Dibromochloromethane
Concen: 0.560 ug/l
RT: 9.506 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

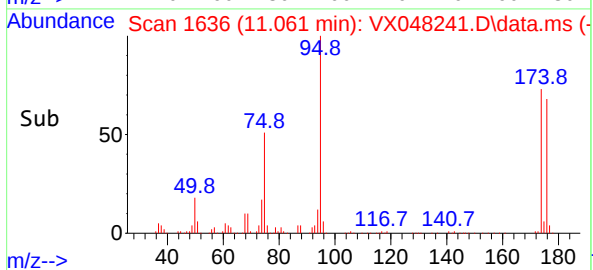
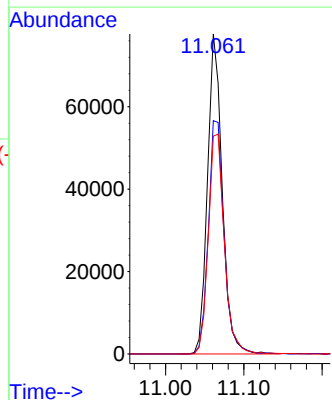
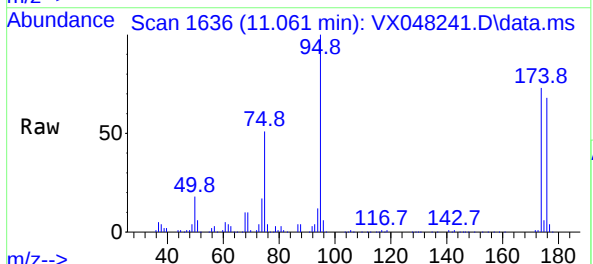
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

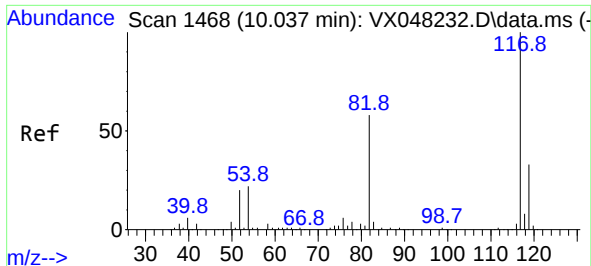
Tgt Ion:129 Resp: 1096
Ion Ratio Lower Upper
129 100
127 77.5 38.6 115.7



#62
4-Bromofluorobenzene
Concen: 50.890 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 95 Resp: 101289
Ion Ratio Lower Upper
95 100
174 77.8 0.0 147.8
176 74.6 0.0 142.8

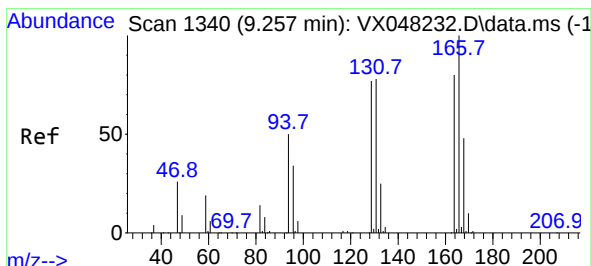
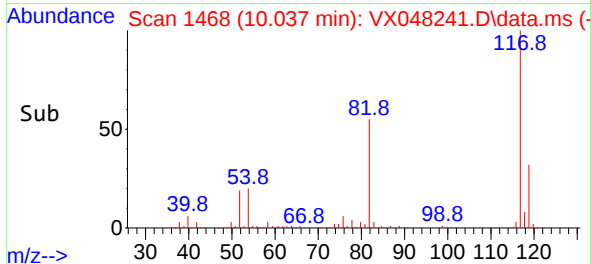
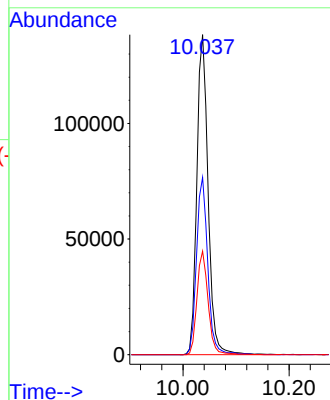
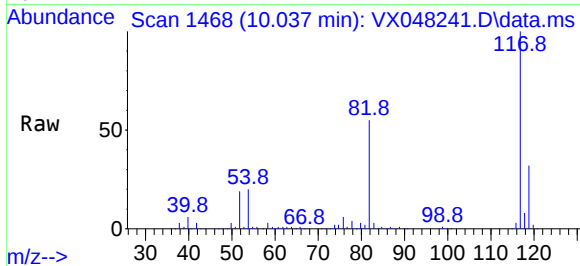




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

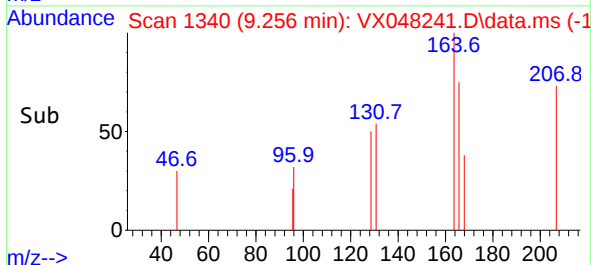
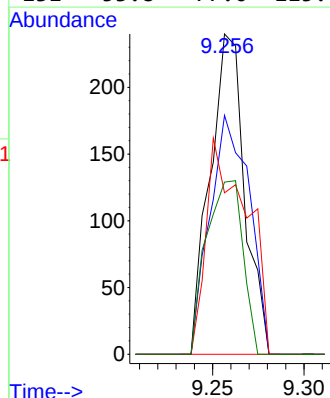
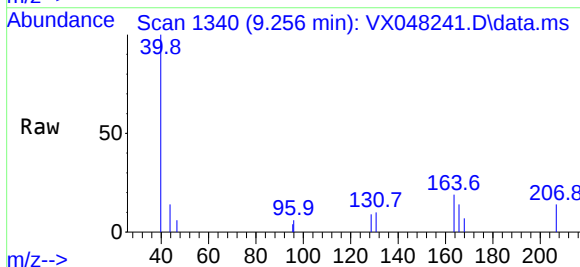
Instrument : MSVOA_X
ClientSampleId : VPB184-HYD-20251010

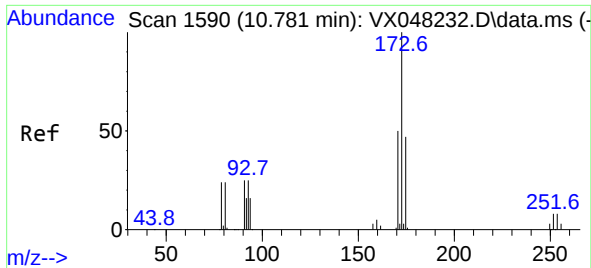
Tgt Ion:117 Resp: 203489
Ion Ratio Lower Upper
117 100
82 55.4 46.5 69.7
119 32.4 25.9 38.9



#64
Tetrachloroethene
Concen: 0.209 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion:164 Resp: 317
Ion Ratio Lower Upper
164 100
166 74.6 104.5 156.7#
129 50.4 81.8 122.6#
131 53.8 77.0 115.6#

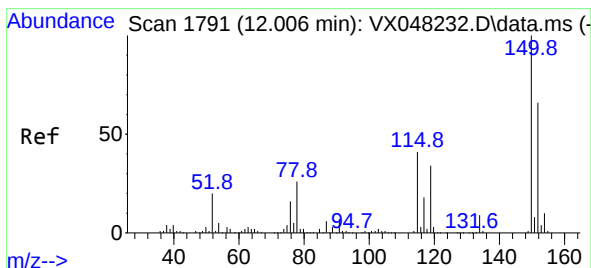
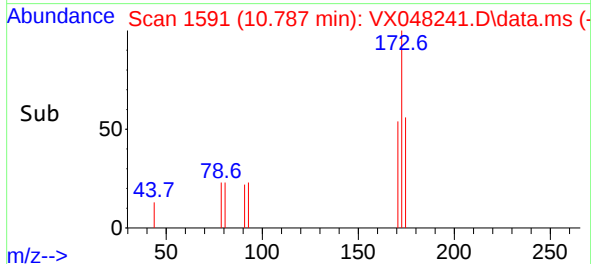
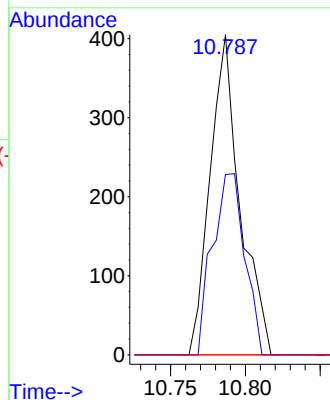
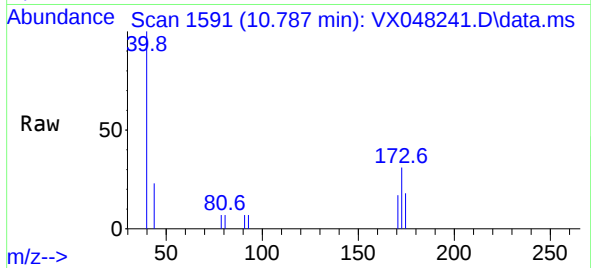




#71
Bromoform
Concen: 0.418 ug/l
RT: 10.787 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

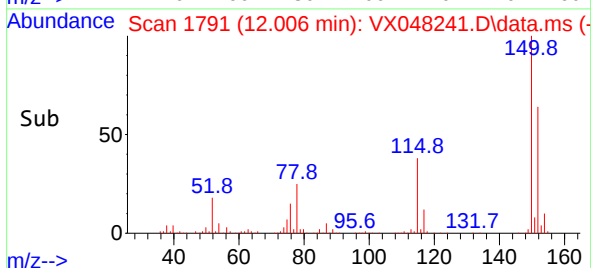
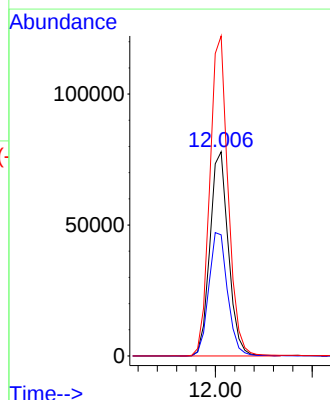
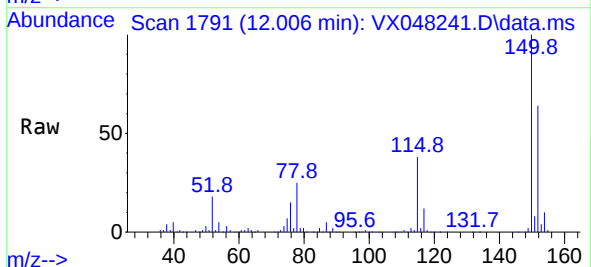
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

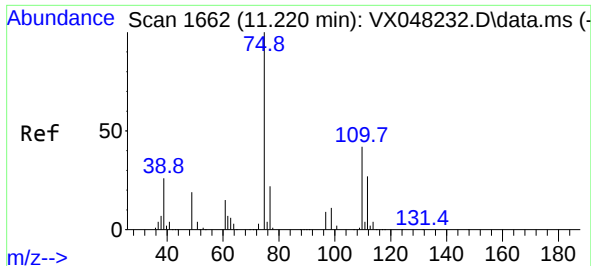
Tgt Ion:173 Resp: 562
Ion Ratio Lower Upper
173 100
175 60.9 24.0 72.0
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion:152 Resp: 103207
Ion Ratio Lower Upper
152 100
115 61.6 43.1 129.4
150 155.5 0.0 353.0

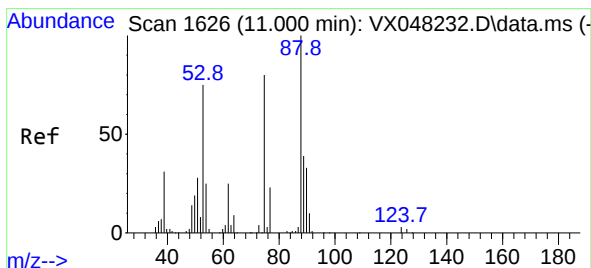
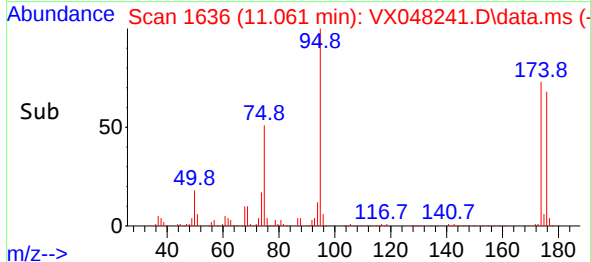
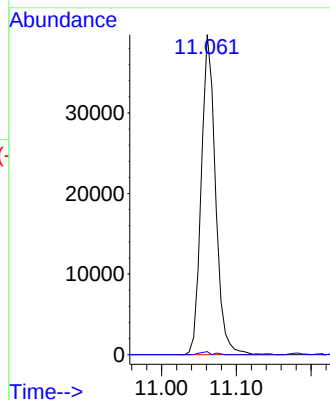
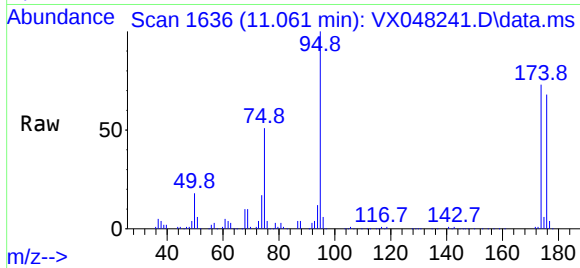




#76
1,2,3-Trichloropropane
Concen: 31.405 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

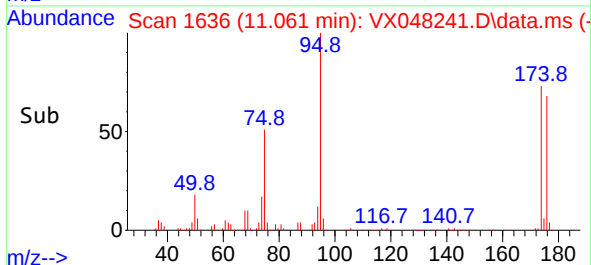
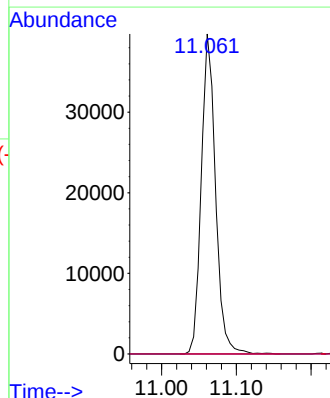
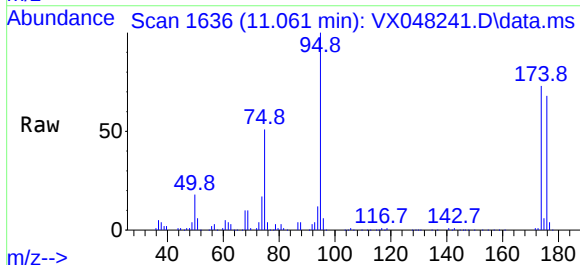
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

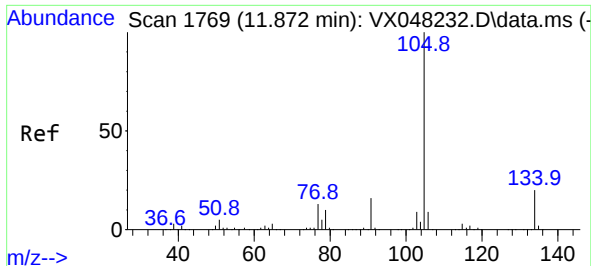
Tgt Ion: 75 Resp: 52562
Ion Ratio Lower Upper
75 100
77 0.8 22.4 67.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.407 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 75 Resp: 52562
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#

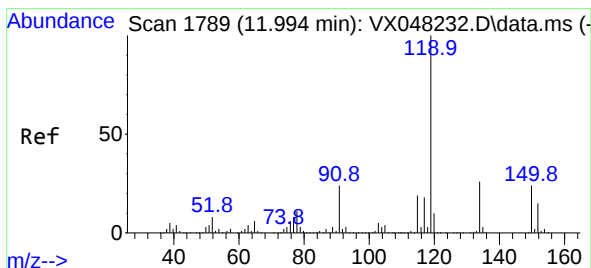
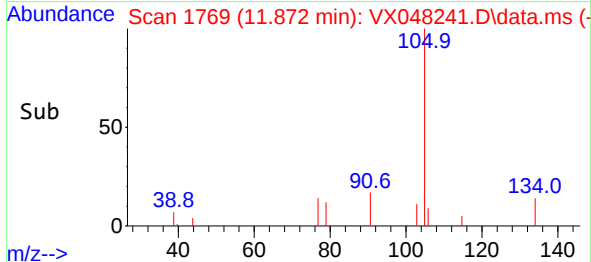
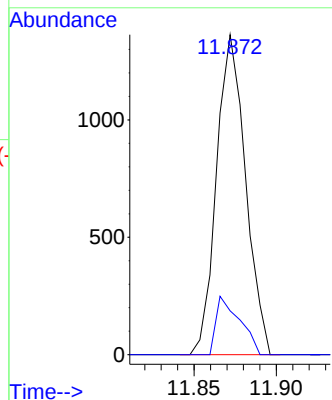
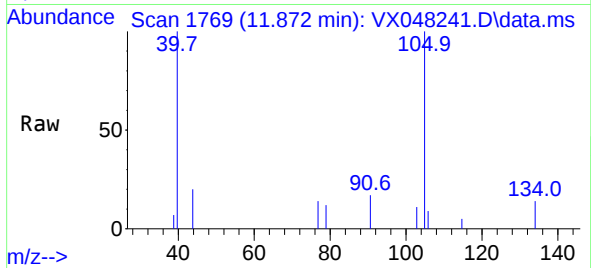




#85
 sec-Butylbenzene
 Concen: 0.217 ug/l
 RT: 11.872 min Scan# 1769
 Delta R.T. -0.000 min
 Lab File: VX048241.D
 Acq: 20 Oct 2025 16:18

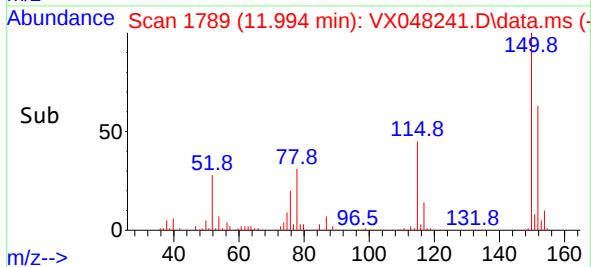
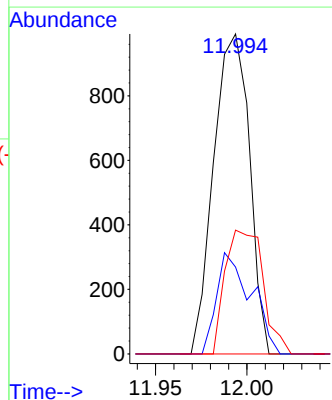
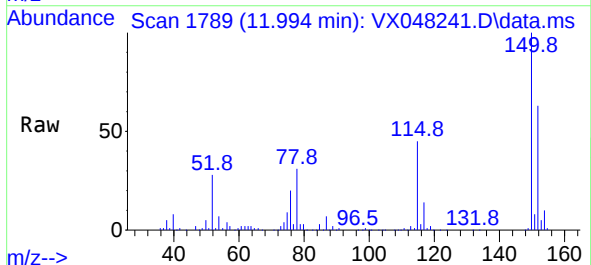
Instrument : MSVOA_X
 ClientSampleId : VPB184-HYD-20251010

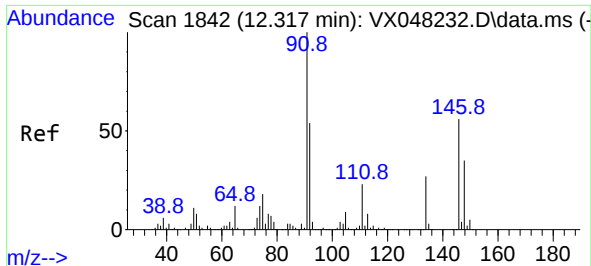
Tgt Ion:105 Resp: 1674
 Ion Ratio Lower Upper
 105 100
 134 14.9 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 0.203 ug/l
 RT: 11.994 min Scan# 1789
 Delta R.T. 0.006 min
 Lab File: VX048241.D
 Acq: 20 Oct 2025 16:18

Tgt Ion:119 Resp: 1352
 Ion Ratio Lower Upper
 119 100
 134 30.8 13.0 39.0
 91 41.1 12.1 36.3#

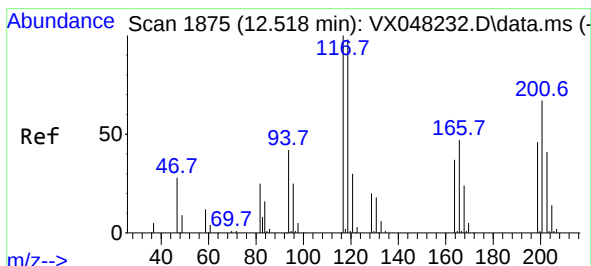
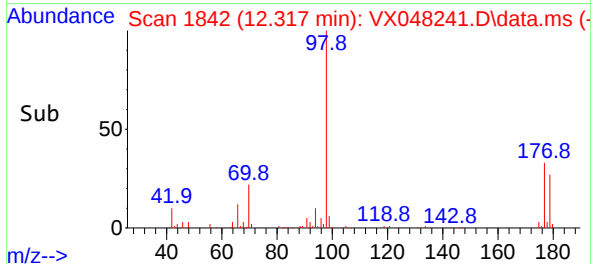
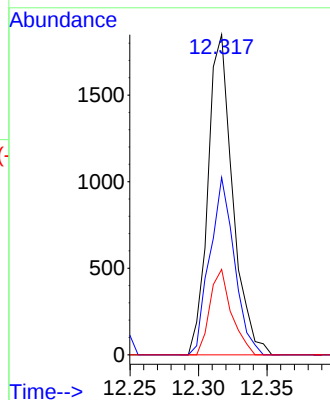
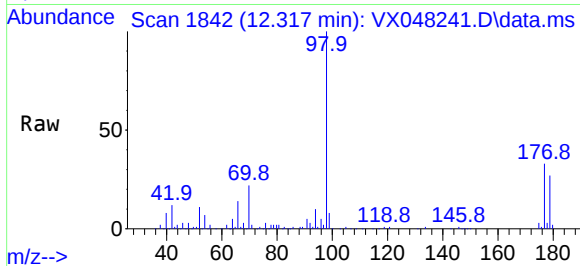




#89
n-Butylbenzene
Concen: 0.382 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

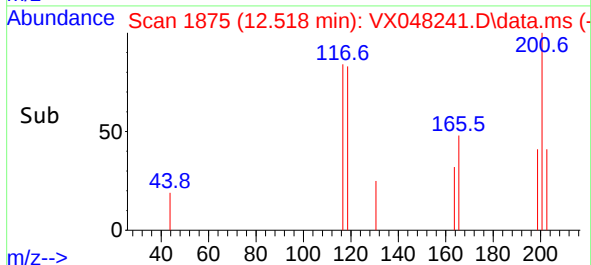
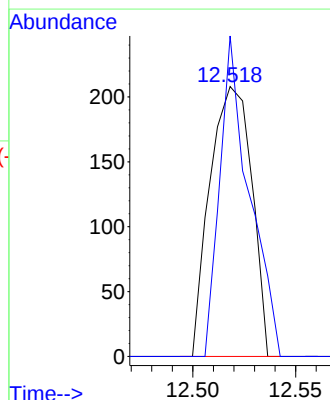
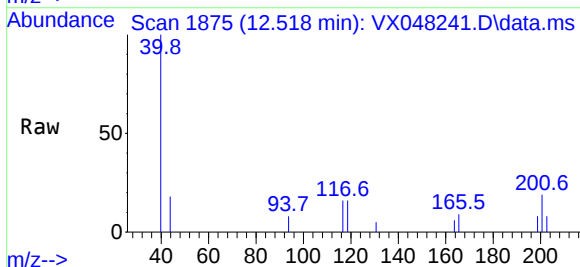
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

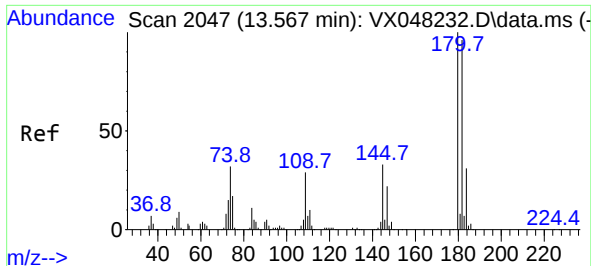
Tgt Ion: 91 Resp: 2319
Ion Ratio Lower Upper
91 100
92 55.0 26.9 80.6
134 23.3 12.7 38.1



#90
Hexachloroethane
Concen: 0.223 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion: 117 Resp: 294
Ion Ratio Lower Upper
117 100
201 83.7 34.1 102.2

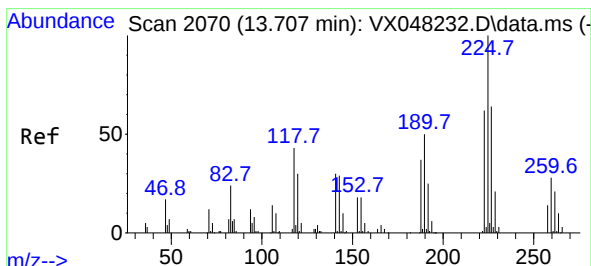
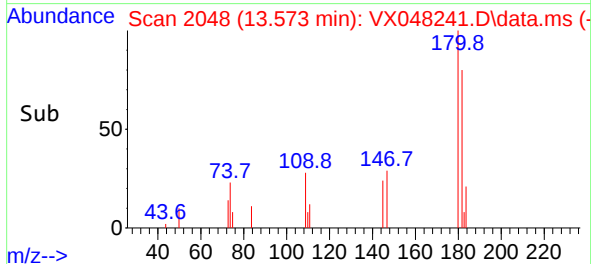
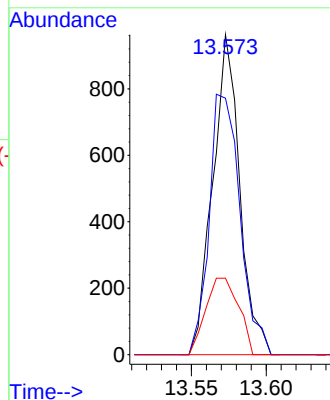
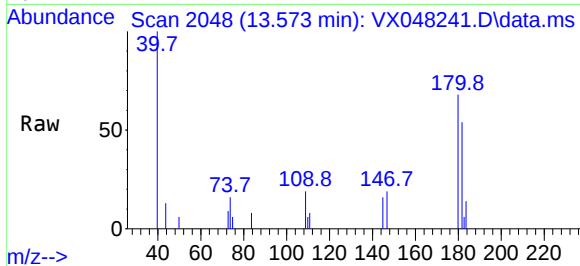




#93
1,2,4-Trichlorobenzene
Concen: 0.535 ug/l
RT: 13.573 min Scan# 2047
Delta R.T. 0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

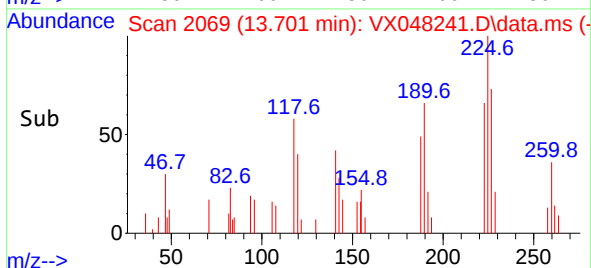
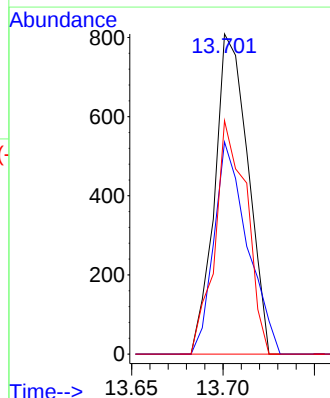
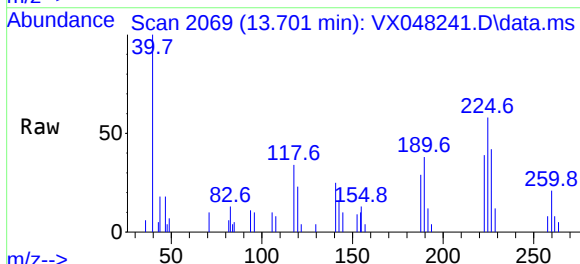
Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010

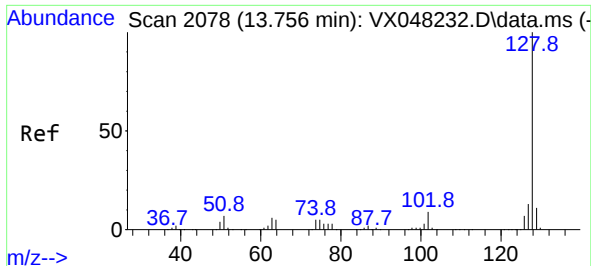
Tgt Ion:	180	Resp:	1211
Ion Ratio	Lower	Upper	
180	100		
182	92.7	47.3	142.0
145	29.1	16.3	48.9



#94
Hexachlorobutadiene
Concen: 1.272 ug/l
RT: 13.701 min Scan# 2069
Delta R.T. -0.000 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

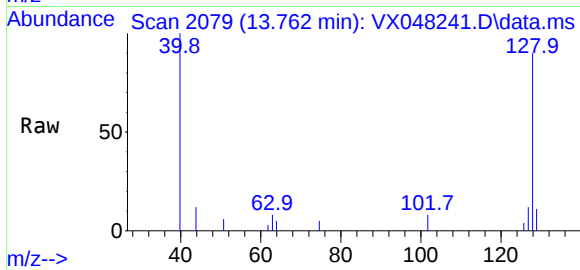
Tgt Ion:	225	Resp:	1023
Ion Ratio	Lower	Upper	
225	100		
223	66.9	32.6	97.7
227	69.2	32.5	97.4



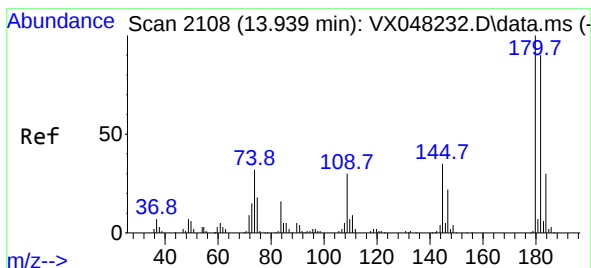
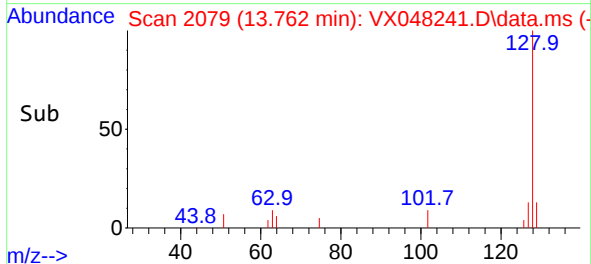
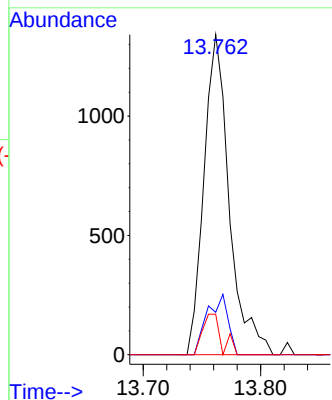


#95
Naphthalene
Concen: 0.335 ug/l
RT: 13.762 min Scan# 2078
Delta R.T. 0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Instrument :
MSVOA_X
ClientSampleId :
VPB184-HYD-20251010



Tgt Ion:128 Resp: 2006
Ion Ratio Lower Upper
128 100
127 15.5 10.2 15.4#
129 9.5 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 0.519 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048241.D
Acq: 20 Oct 2025 16:18

Tgt Ion:180 Resp: 1077
Ion Ratio Lower Upper
180 100
182 91.5 46.6 139.7
145 32.4 16.9 50.7

