

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111121\
 Data File : VD071011.D
 Acq On : 12 Nov 2021 04:12
 Operator : VA/SY
 Sample : M4576-05
 Misc : 5.79G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 08:16:40 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D110921S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 10 03:55:51 2021
 Response via : Initial Calibration

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

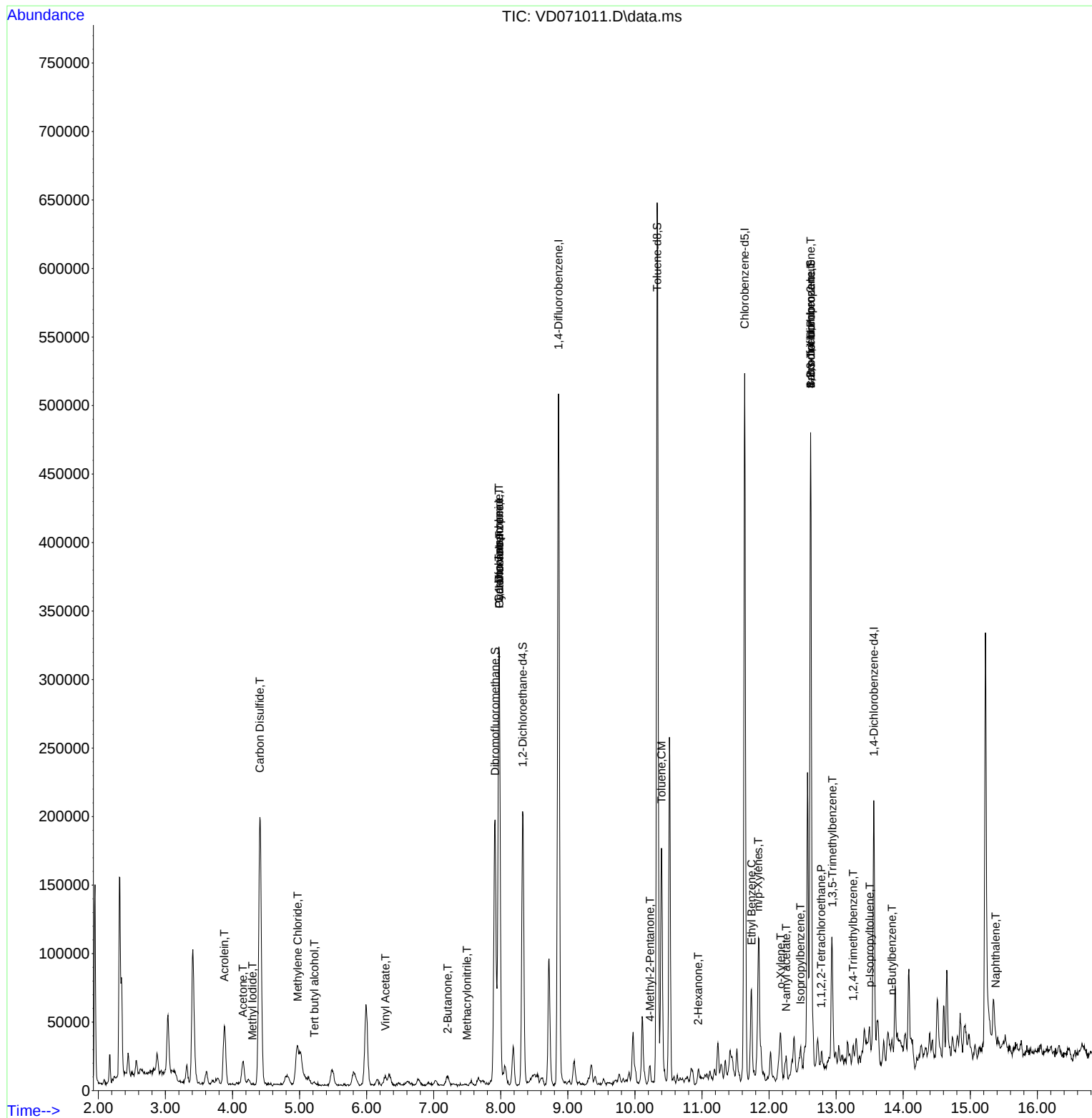
Internal Standards						
1) Pentafluorobenzene	7.979	168	221074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	403928	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	267164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	45974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	155168	65.923	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 131.840%	
35) Dibromofluoromethane	7.914	113	133988	58.785	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 117.580%	
50) Toluene-d8	10.332	98	413023	46.271	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 92.540%	
62) 4-Bromofluorobenzene	12.620	95	96377	29.987	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 59.980%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.297	142	465	6.181	ug/l #	44
11) Tert butyl alcohol	5.220	59	3848	22.369	ug/l #	71
13) Acrolein	3.879	56	1761	28.750	ug/l #	1
16) Acetone	4.155	43	31456	65.364	ug/l #	85
17) Carbon Disulfide	4.408	76	405611	59.838	ug/l	97
20) Methylene Chloride	4.973	84	17942	6.334	ug/l	95
23) Vinyl Acetate	6.279	43	238	21.029	ug/l #	72
25) 2-Butanone	7.208	43	7297	28.527	ug/l #	84
31) Cyclohexane	7.979	56	13426	2.774	ug/l #	55
36) 1,1-Dichloropropene	7.973	75	18994	5.267	ug/l #	49
38) Carbon Tetrachloride	7.973	117	23136	6.966	ug/l #	19
41) Methacrylonitrile	7.496	41	191	3.653	ug/l #	26
51) 4-Methyl-2-Pentanone	10.226	43	9547	5.655	ug/l	94
52) Toluene	10.396	92	67839	10.596	ug/l	99
59) 2-Hexanone	10.943	43	4972	19.461	ug/l #	22
67) Ethyl Benzene	11.737	91	35173	3.896	ug/l	95
68) m/p-Xylenes	11.837	106	16704	4.951	ug/l	97
69) o-Xylene	12.173	106	7552	2.353	ug/l	91
71) Bromoform	12.620	173	1073	1.216	ug/l #	1
73) Isopropylbenzene	12.467	105	3952	1.193	ug/l	97
74) N-amyl acetate	12.255	43	7299	7.714	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.778	83	2272	3.985	ug/l #	25
76) 1,2,3-Trichloropropane	12.620	75	54435	138.613	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.943	105	5372	1.970	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.620	75	54435	252.452	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.255	105	7575	2.836	ug/l	96
86) p-Isopropyltoluene	13.502	119	9147	3.226	ug/l #	80
89) n-Butylbenzene	13.831	91	3301	1.158	ug/l	76
95) Naphthalene	15.378	128	8753	5.976	ug/l #	83

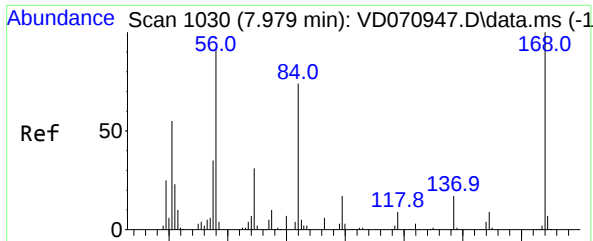
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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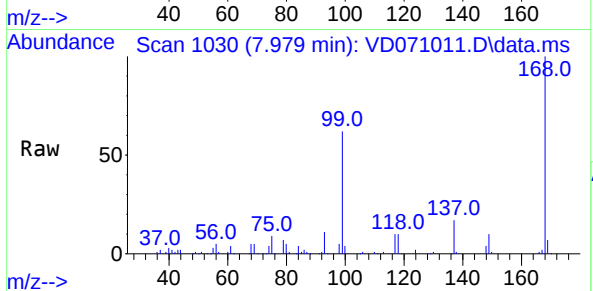
Quant Time: Nov 12 08:16:40 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D110921S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 10 03:55:51 2021
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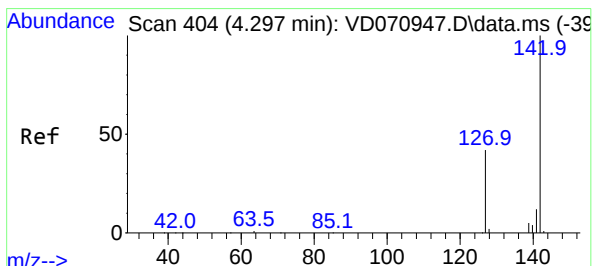
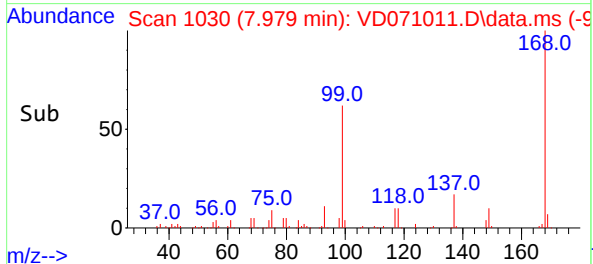
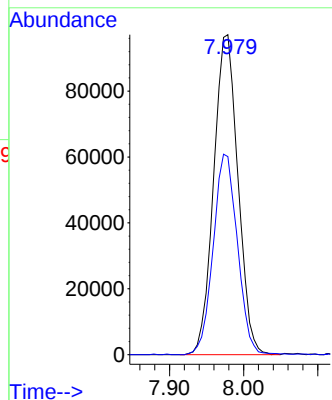


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Instrument :
MSVOA_D
ClientSampleId :

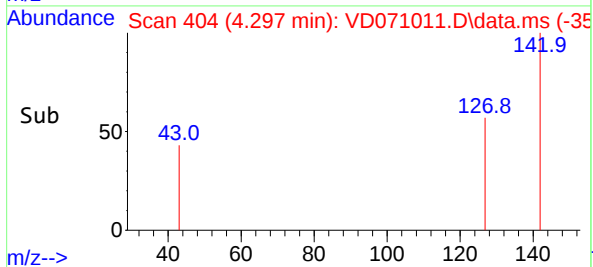
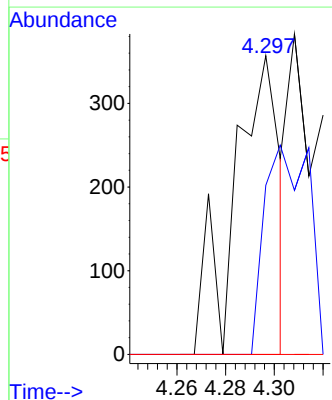
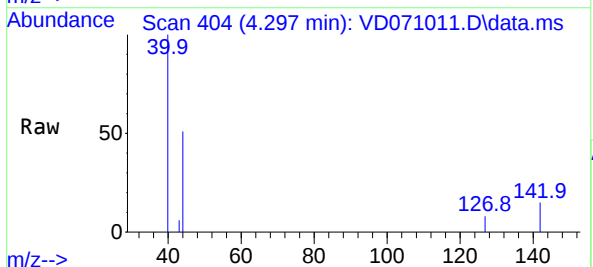


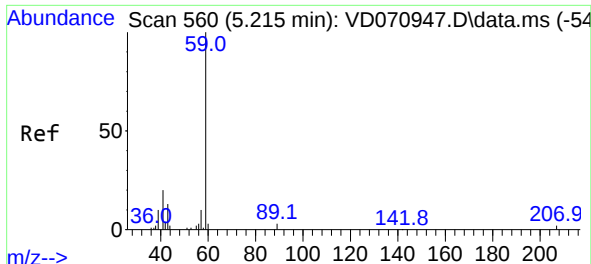
Tgt Ion:168 Resp: 221074
Ion Ratio Lower Upper
168 100
99 61.9 46.6 69.8



#10
Methyl Iodide
Concen: 6.181 ug/l
RT: 4.297 min Scan# 404
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

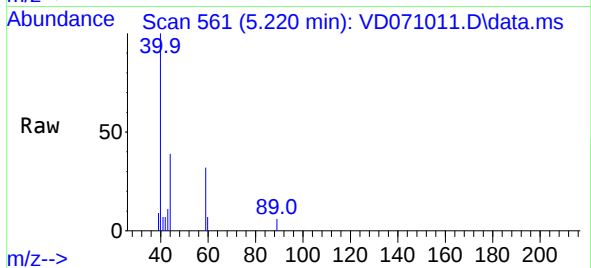
Tgt Ion:142 Resp: 465
Ion Ratio Lower Upper
142 100
127 84.5 35.0 52.4#
141 0.0 12.0 18.0#



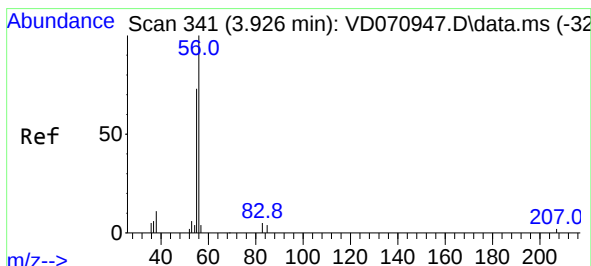
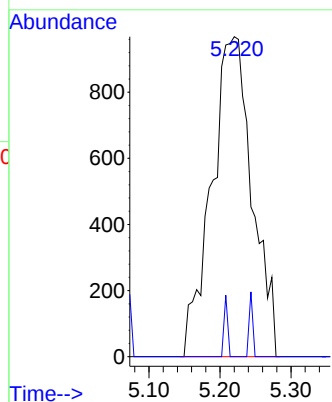
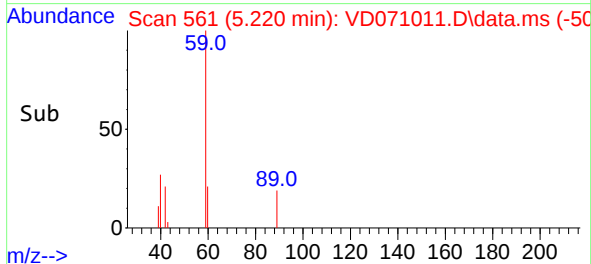


#11
Tert butyl alcohol
Concen: 22.369 ug/l
RT: 5.220 min Scan# 50
Delta R.T. 0.005 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Instrument :
MSVOA_D
ClientSampleId :

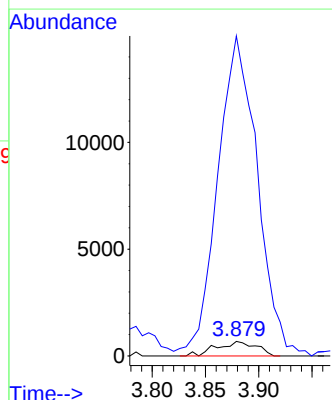
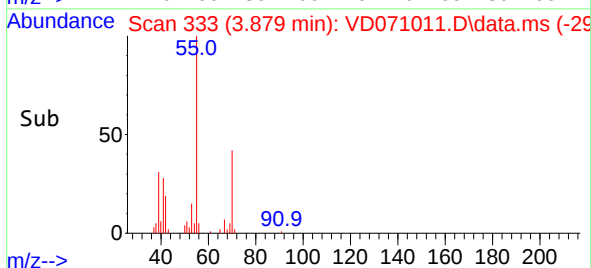
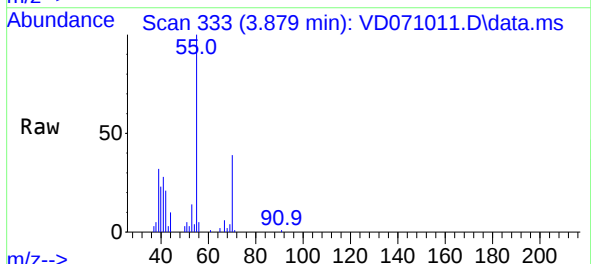


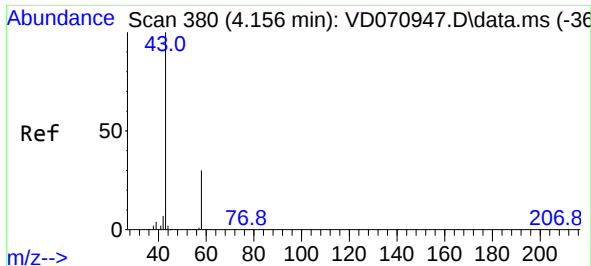
Tgt Ion: 59 Resp: 3848
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 28.750 ug/l
RT: 3.879 min Scan# 333
Delta R.T. -0.047 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

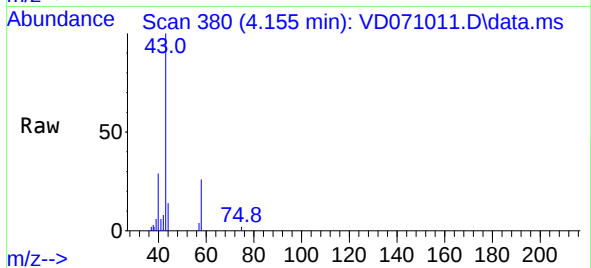
Tgt Ion: 56 Resp: 1761
Ion Ratio Lower Upper
56 100
55 2208.7 58.6 87.8#



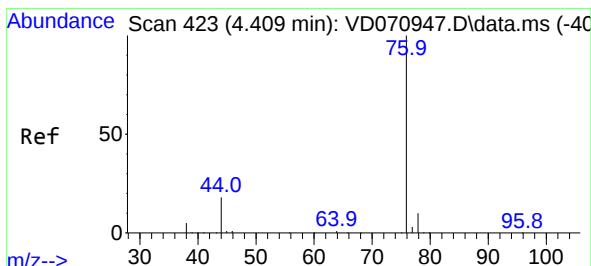
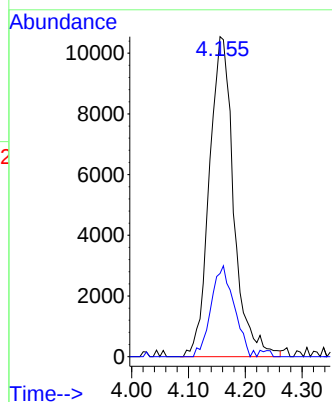
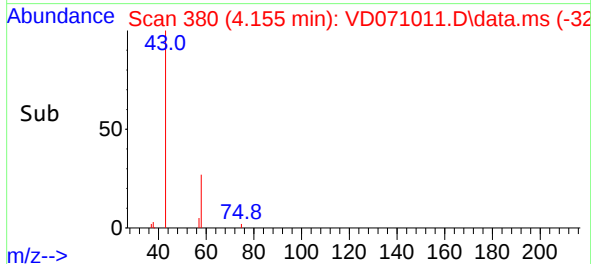


#16
Acetone
Concen: 65.364 ug/l
RT: 4.155 min Scan# 31
Delta R.T. -0.001 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Instrument :
MSVOA_D
ClientSampleId :

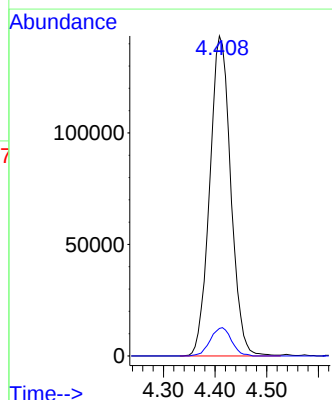
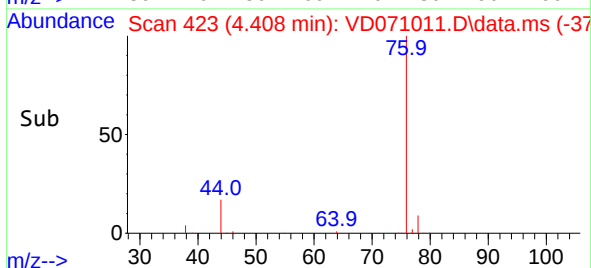
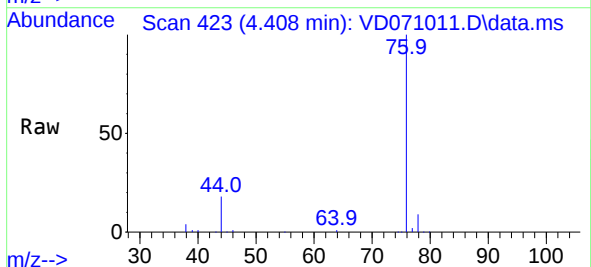


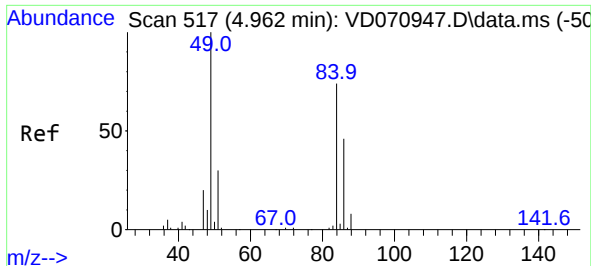
Tgt Ion: 43 Resp: 31456
Ion Ratio Lower Upper
43 100
58 26.0 27.8 41.8#



#17
Carbon Disulfide
Concen: 59.838 ug/l
RT: 4.408 min Scan# 423
Delta R.T. -0.001 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

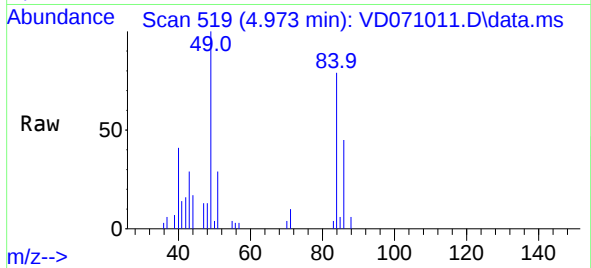
Tgt Ion: 76 Resp: 405611
Ion Ratio Lower Upper
76 100
78 8.6 7.8 11.8





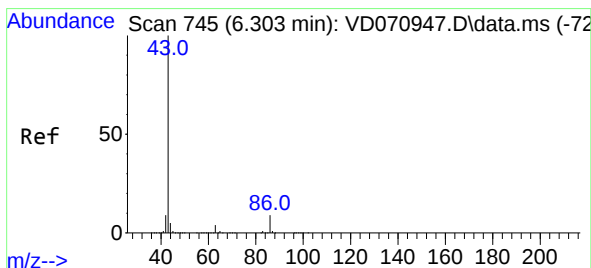
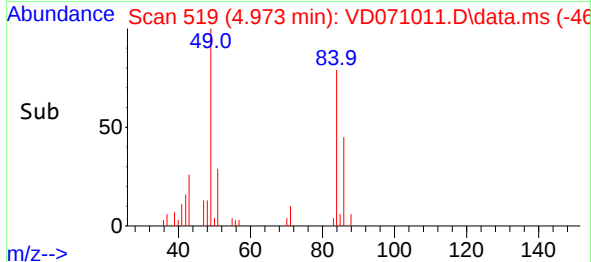
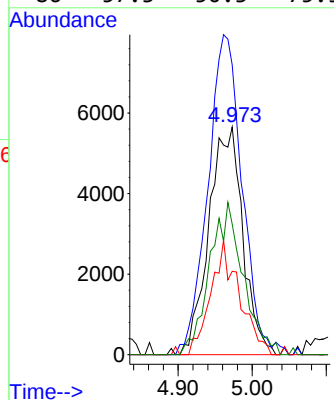
#20
Methylene Chloride
Concen: 6.334 ug/l
RT: 4.973 min Scan# 517
Delta R.T. 0.011 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 84 Resp: 17942

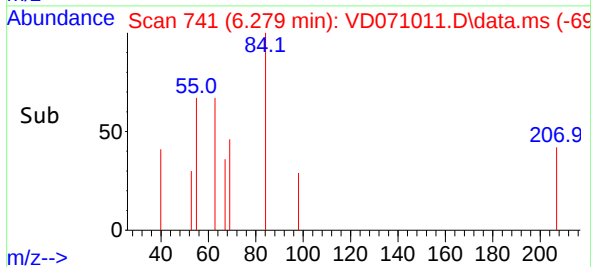
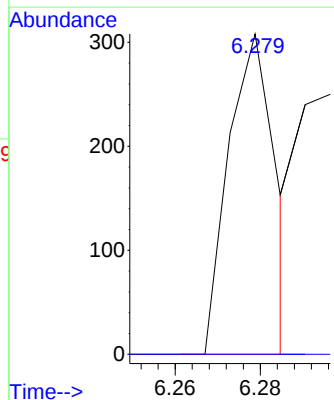
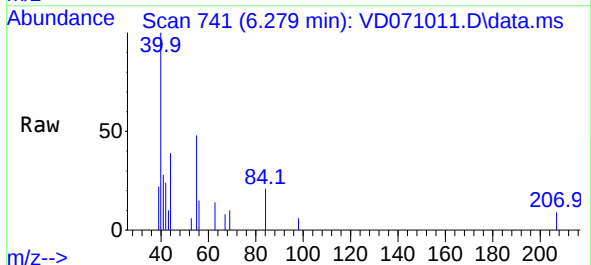
Ion	Ratio	Lower	Upper
84	100		
49	123.6	95.8	143.6
51	36.6	30.9	46.3
86	57.3	50.3	75.5

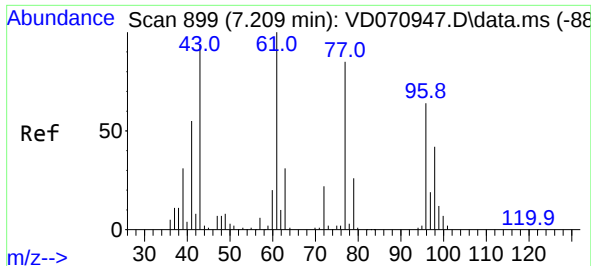


#23
Vinyl Acetate
Concen: 21.029 ug/l
RT: 6.279 min Scan# 741
Delta R.T. -0.024 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Tgt Ion: 43 Resp: 238

Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.2	12.4

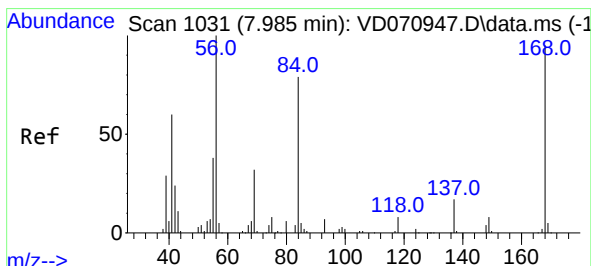
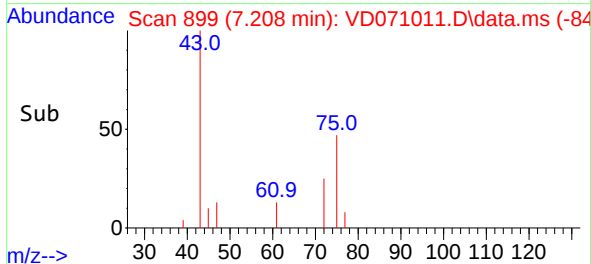
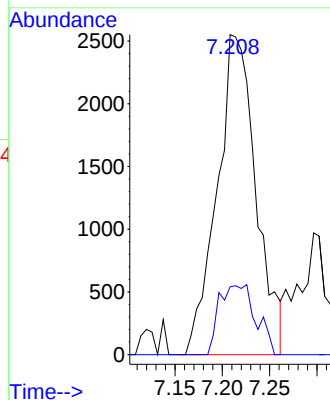
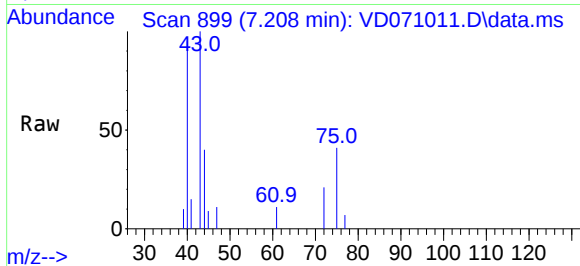




#25
2-Butanone
Concen: 28.527 ug/l
RT: 7.208 min Scan# 899
Delta R.T. -0.001 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

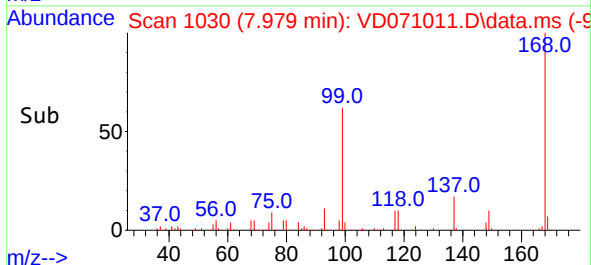
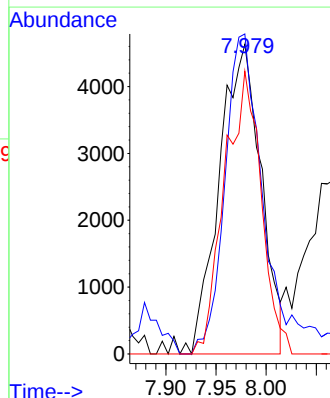
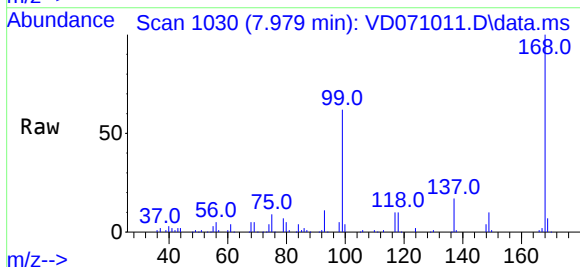
Instrument :
MSVOA_D
ClientSampleId :

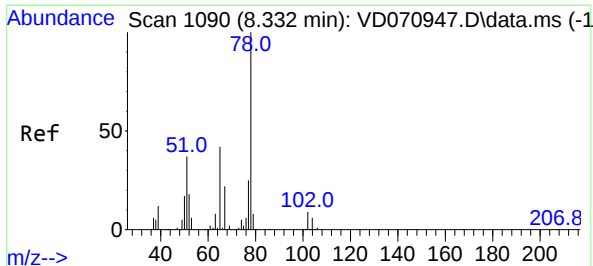
Tgt Ion: 43 Resp: 7297
Ion Ratio Lower Upper
43 100
72 21.2 23.8 35.6#



#31
Cyclohexane
Concen: 2.774 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Tgt Ion: 56 Resp: 13426
Ion Ratio Lower Upper
56 100
69 103.4 25.9 38.9#
84 91.3 64.3 96.5

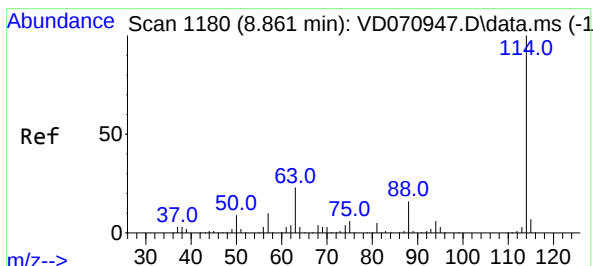
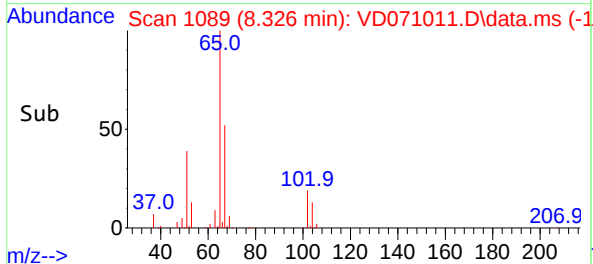
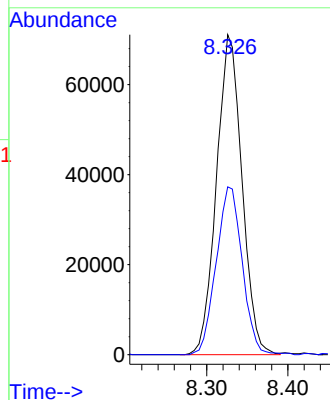
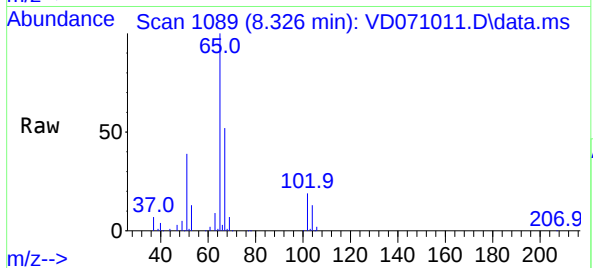




#33
1,2-Dichloroethane-d4
Concen: 65.923 ug/l
RT: 8.326 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

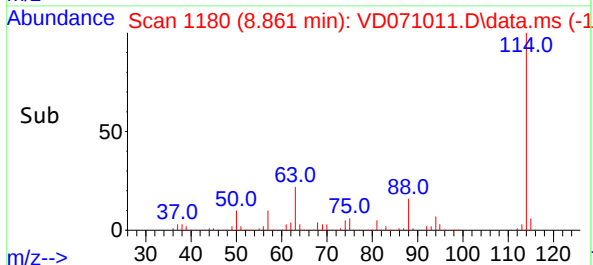
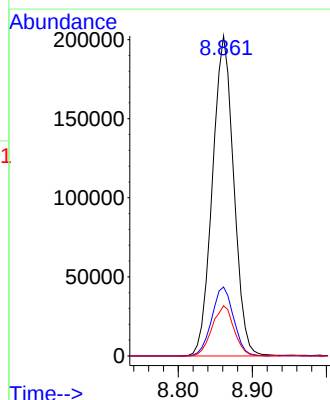
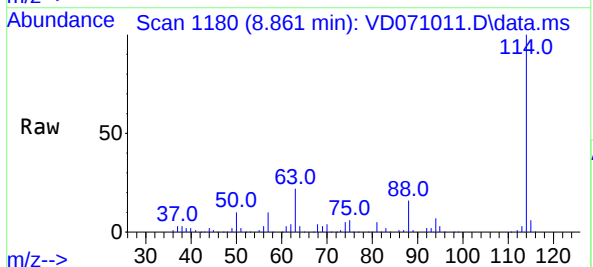
Instrument :
MSVOA_D
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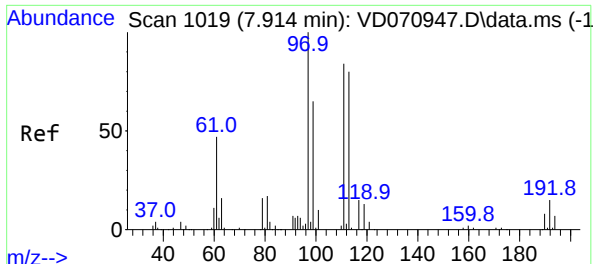
Tgt Ion: 65 Resp: 155168
Ion Ratio Lower Upper
65 100
67 53.6 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

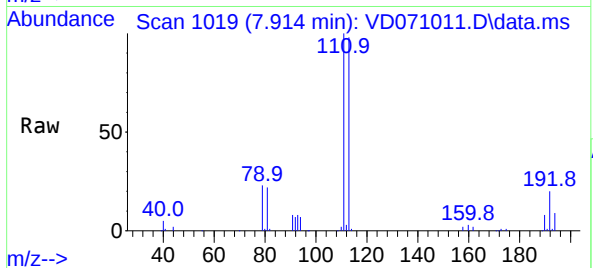
Tgt Ion:114 Resp: 403928
Ion Ratio Lower Upper
114 100
63 21.6 0.0 41.8
88 15.7 0.0 32.8



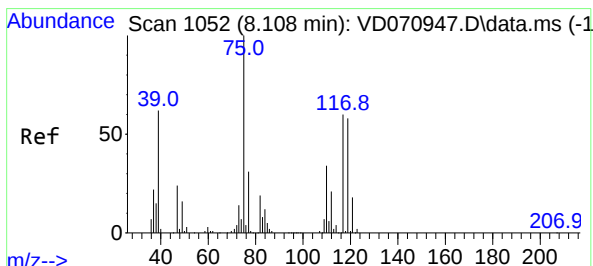
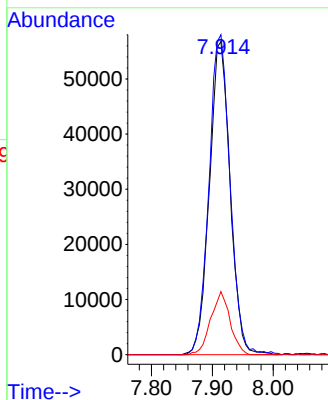
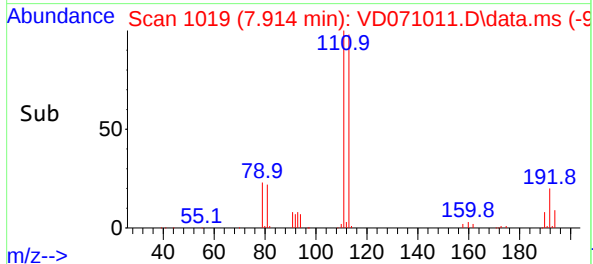


#35
Dibromofluoromethane
Concen: 58.785 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

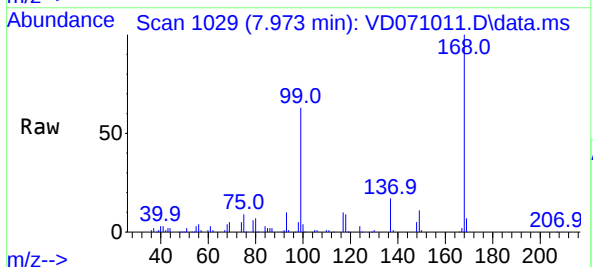
Instrument :
MSVOA_D
ClientSampleId :



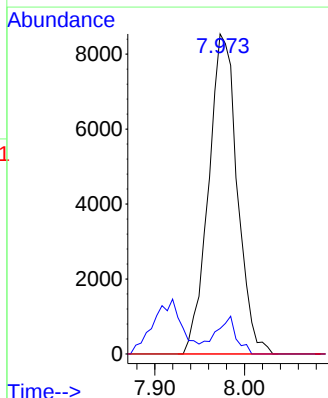
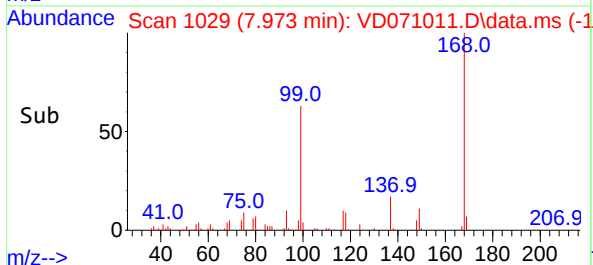
Tgt Ion:113 Resp: 133988
Ion Ratio Lower Upper
113 100
111 103.8 82.0 123.0
192 18.9 15.2 22.8

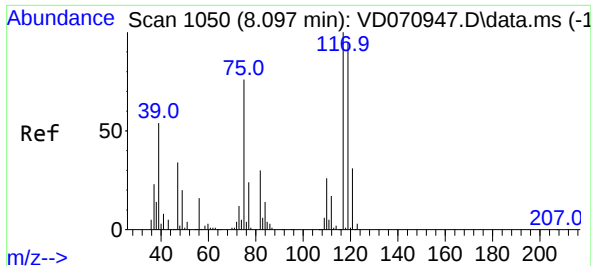


#36
1,1-Dichloropropene
Concen: 5.267 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12



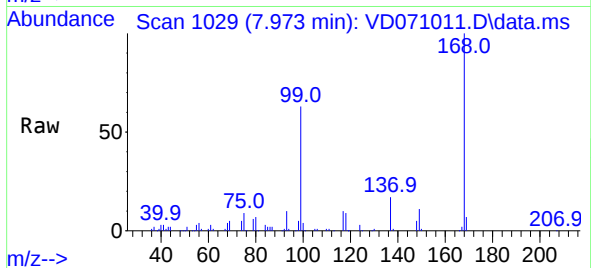
Tgt Ion: 75 Resp: 18994
Ion Ratio Lower Upper
75 100
110 8.6 17.8 53.4#
77 0.0 24.8 37.2#



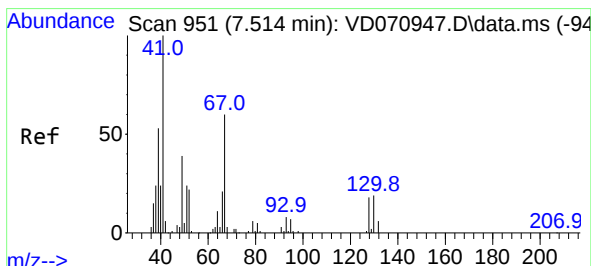
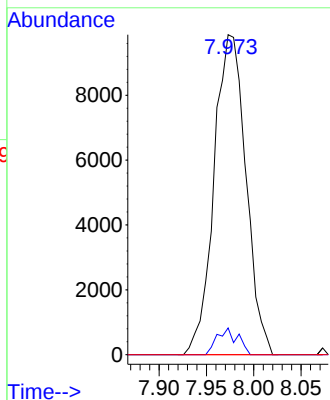
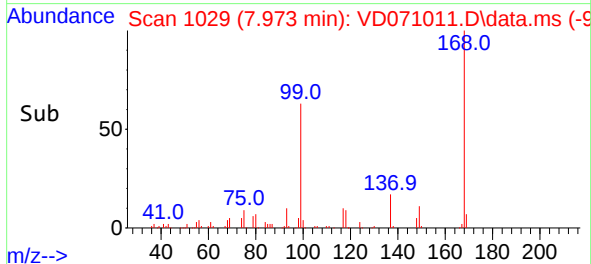


#38
Carbon Tetrachloride
Concen: 6.966 ug/l
RT: 7.973 min Scan# 1050
Delta R.T. -0.124 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Instrument :
MSVOA_D
ClientSampleId :

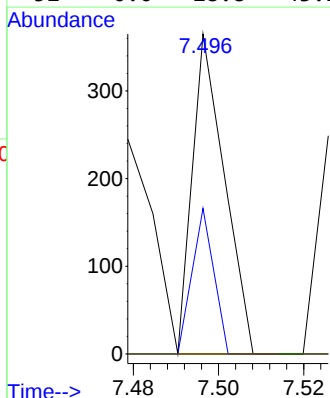
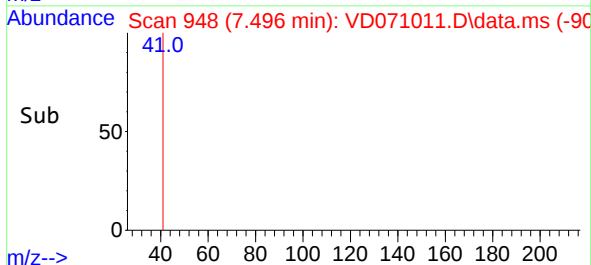
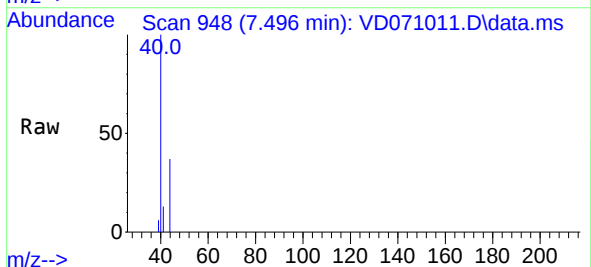


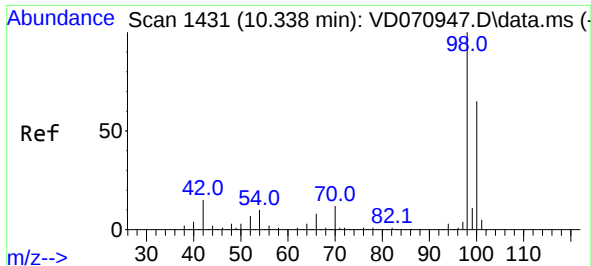
Tgt Ion:117 Resp: 23136
Ion Ratio Lower Upper
117 100
119 8.4 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 3.653 ug/l
RT: 7.496 min Scan# 948
Delta R.T. -0.018 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Tgt Ion: 41 Resp: 191
Ion Ratio Lower Upper
41 100
39 30.9 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#

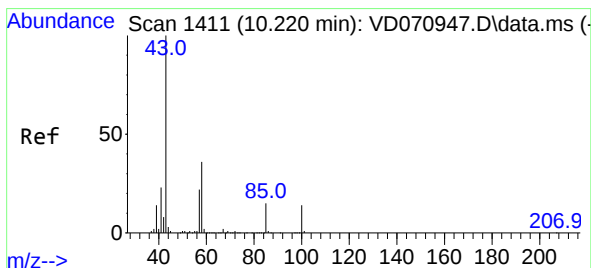
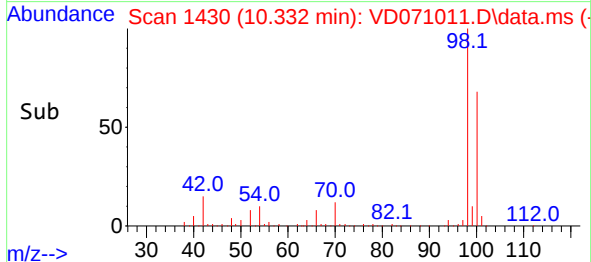
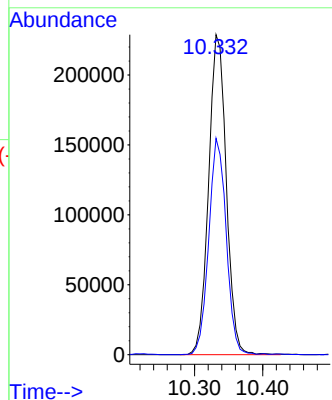
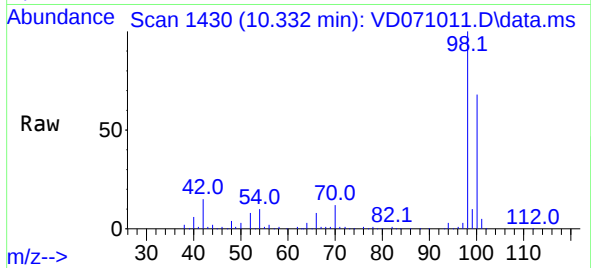




#50
Toluene-d8
Concen: 46.271 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

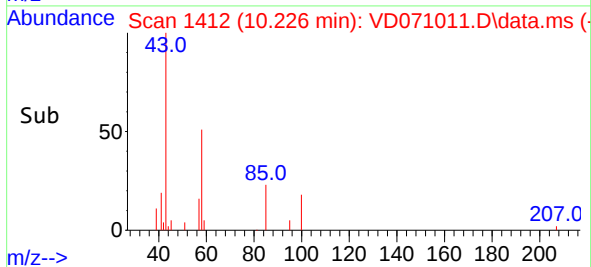
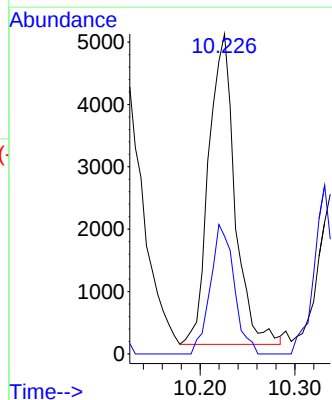
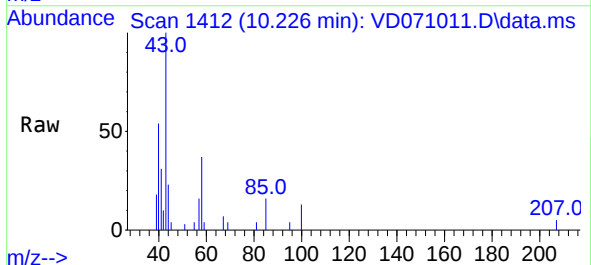
Instrument :
MSVOA_D
ClientSampleId :

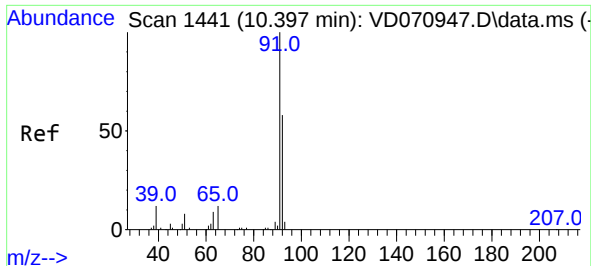
Tgt Ion: 98 Resp: 413023
Ion Ratio Lower Upper
98 100
100 66.9 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 5.655 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. 0.006 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Tgt Ion: 43 Resp: 9547
Ion Ratio Lower Upper
43 100
58 37.8 33.1 49.7

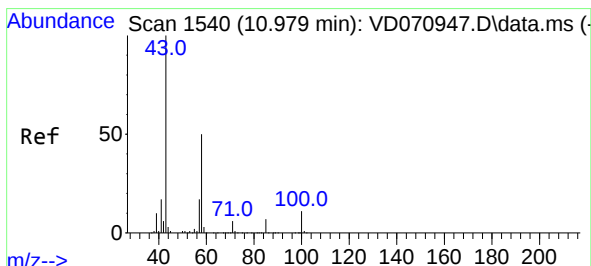
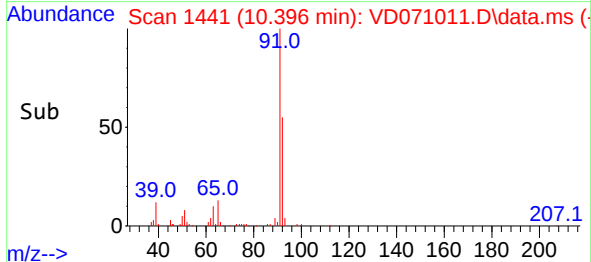
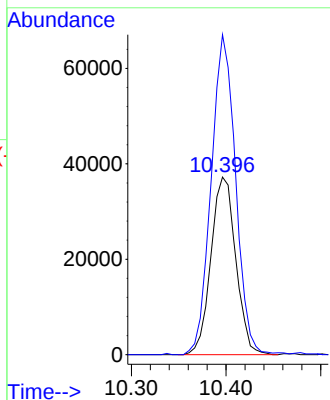
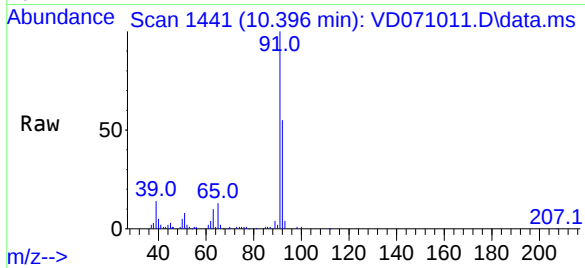




#52
Toluene
Concen: 10.596 ug/l
RT: 10.396 min Scan# 1441
Delta R.T. -0.001 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

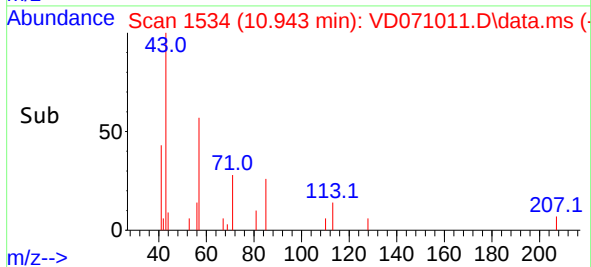
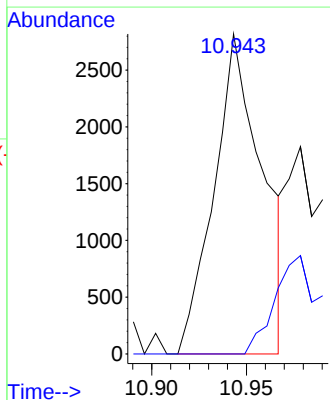
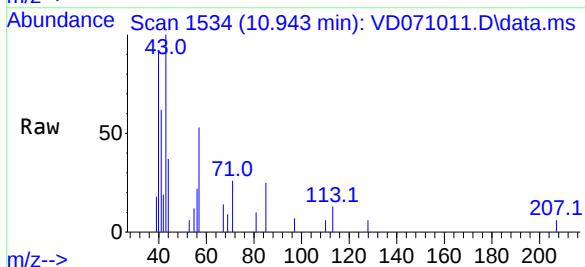
Instrument :
MSVOA_D
ClientSampleId :

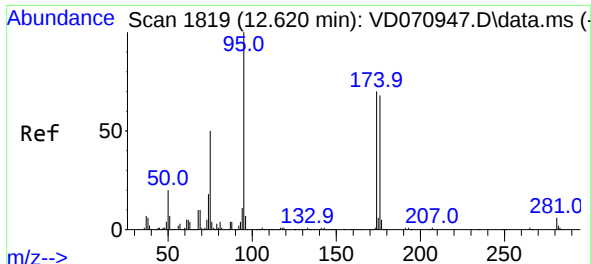
Tgt Ion: 92 Resp: 67839
Ion Ratio Lower Upper
92 100
91 177.5 140.7 211.1



#59
2-Hexanone
Concen: 19.461 ug/l
RT: 10.943 min Scan# 1534
Delta R.T. -0.036 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

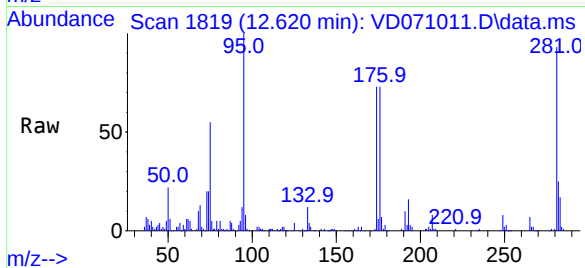
Tgt Ion: 43 Resp: 4972
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



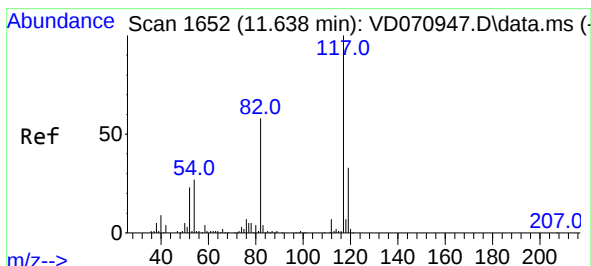
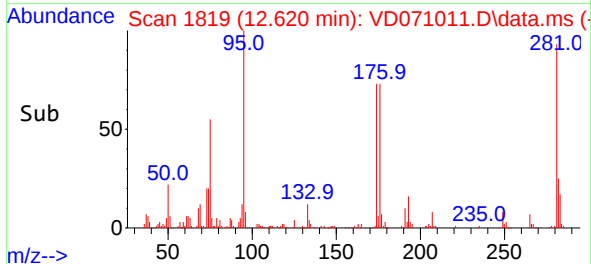
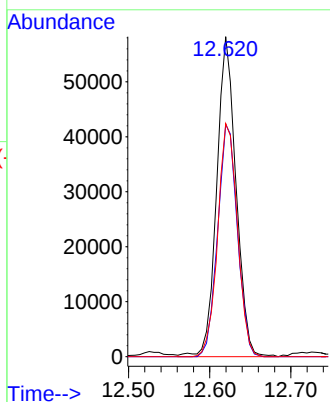


#62
4-Bromofluorobenzene
Concen: 29.987 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Instrument :
MSVOA_D
ClientSampleId :

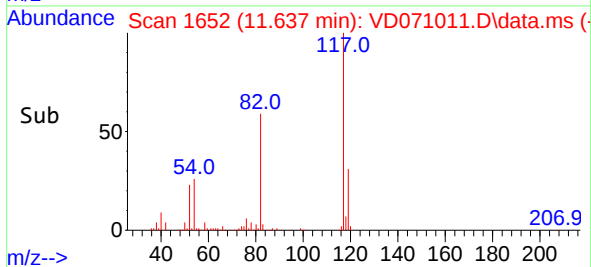
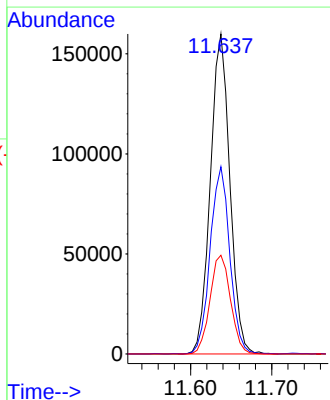
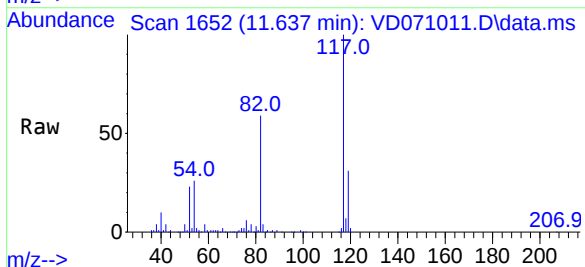


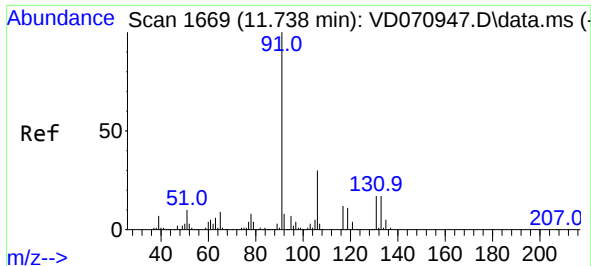
Tgt Ion: 95 Resp: 96377
Ion Ratio Lower Upper
95 100
174 73.8 0.0 159.4
176 74.4 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.637 min Scan# 1652
Delta R.T. -0.001 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Tgt Ion: 117 Resp: 267164
Ion Ratio Lower Upper
117 100
82 58.5 44.7 67.1
119 30.8 26.2 39.4

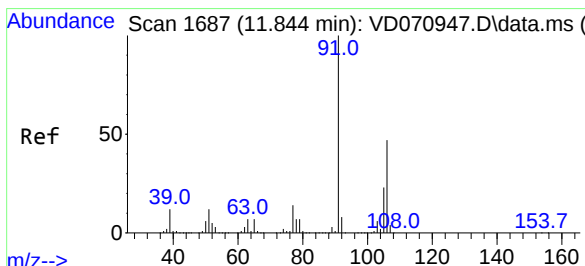
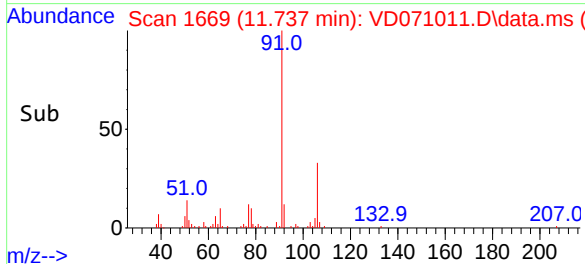
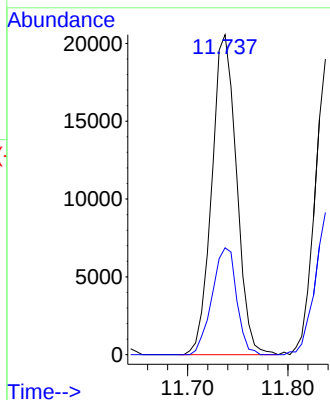
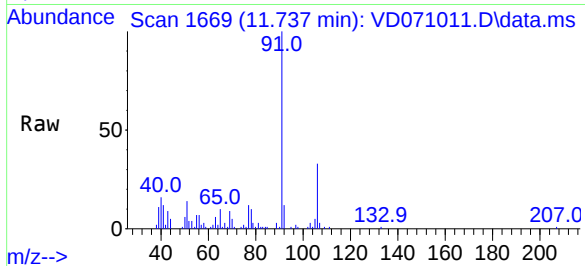




#67
Ethyl Benzene
Concen: 3.896 ug/l
RT: 11.737 min Scan# 1669
Delta R.T. -0.001 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

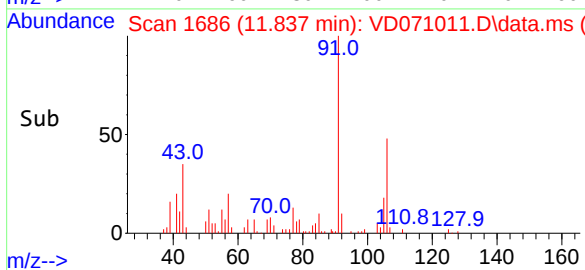
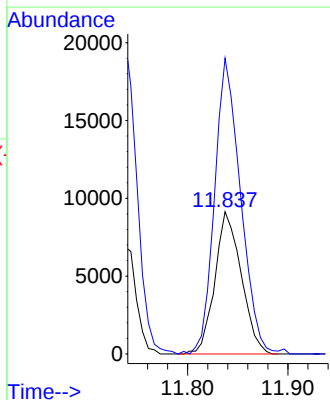
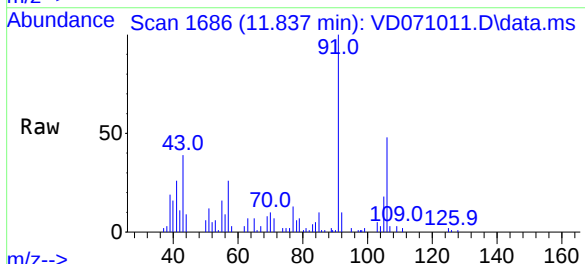
Instrument :
MSVOA_D
ClientSampleId :

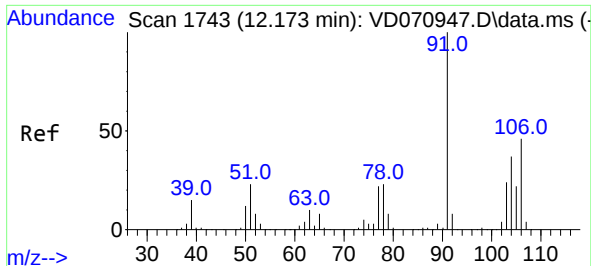
Tgt Ion: 91 Resp: 35173
Ion Ratio Lower Upper
91 100
106 33.4 24.6 36.8



#68
m/p-Xylenes
Concen: 4.951 ug/l
RT: 11.837 min Scan# 1686
Delta R.T. -0.007 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Tgt Ion: 106 Resp: 16704
Ion Ratio Lower Upper
106 100
91 205.2 160.1 240.1

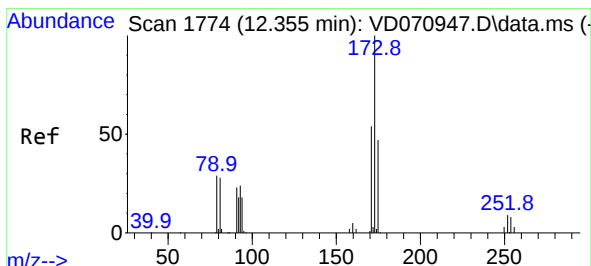
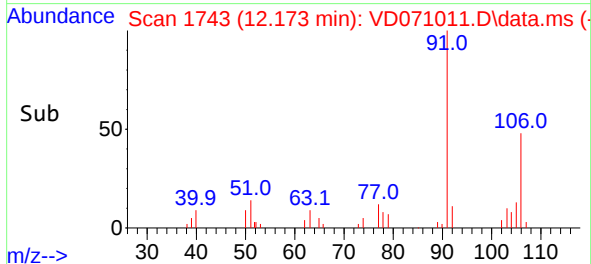
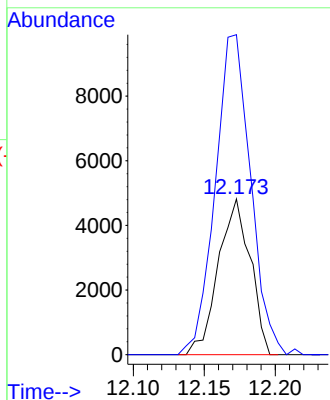
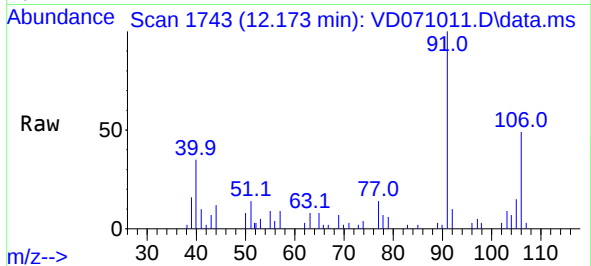




#69
o-Xylene
Concen: 2.353 ug/l
RT: 12.173 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

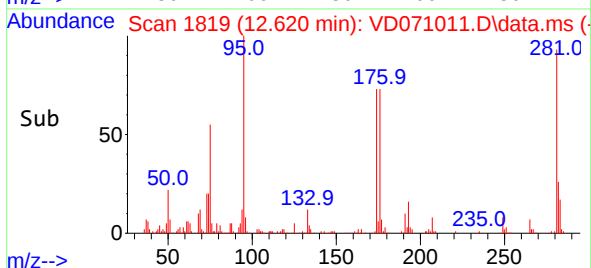
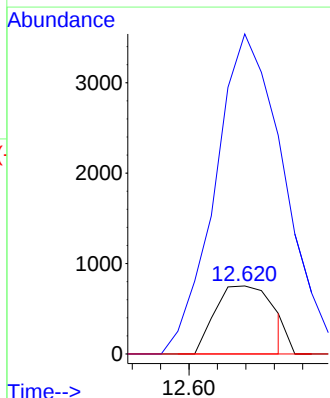
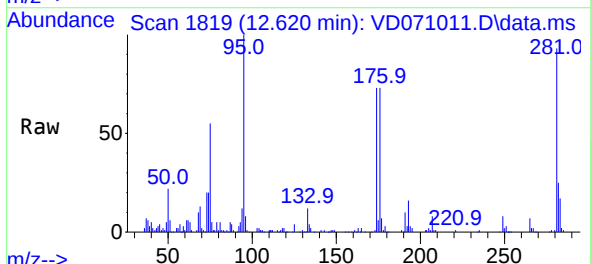
Instrument :
MSVOA_D
ClientSampleId :

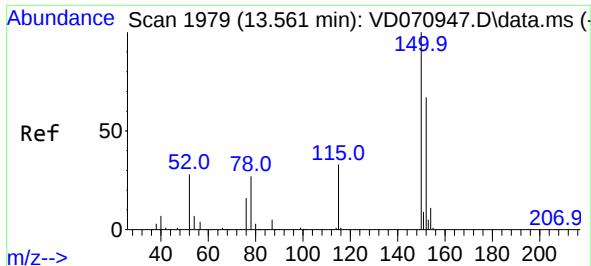
Tgt Ion:106 Resp: 7552
Ion Ratio Lower Upper
106 100
91 227.5 106.3 319.0



#71
Bromoform
Concen: 1.216 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.265 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Tgt Ion:173 Resp: 1073
Ion Ratio Lower Upper
173 100
175 480.4 24.1 72.2#
254 0.0 0.1 0.1#

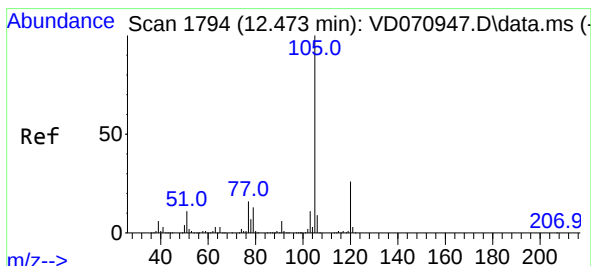
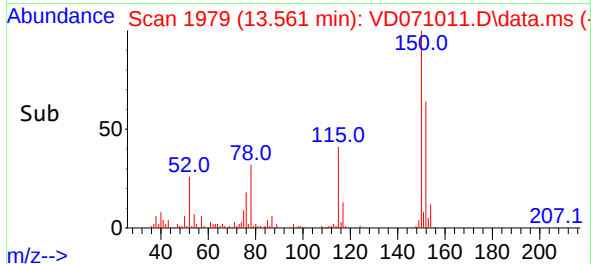
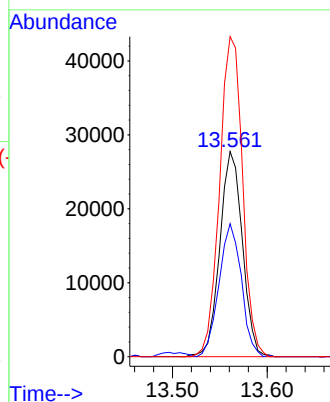
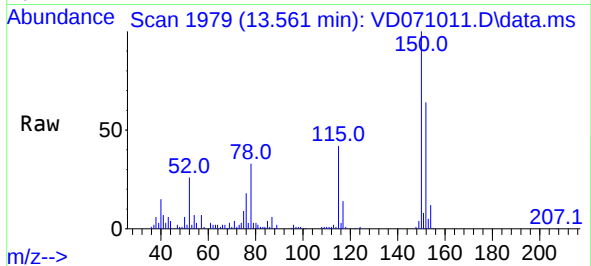




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

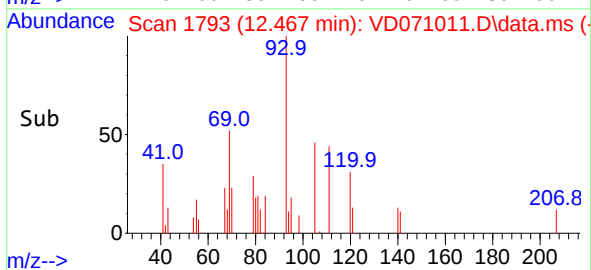
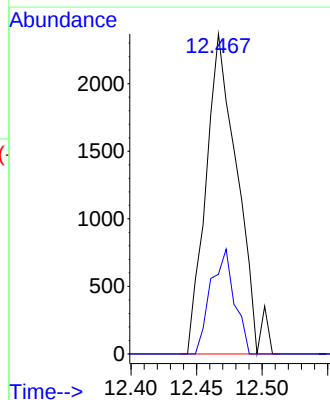
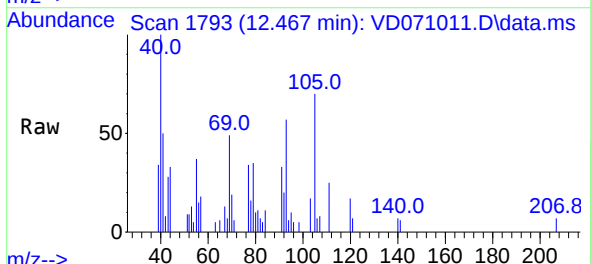
Instrument :
MSVOA_D
ClientSampleId :

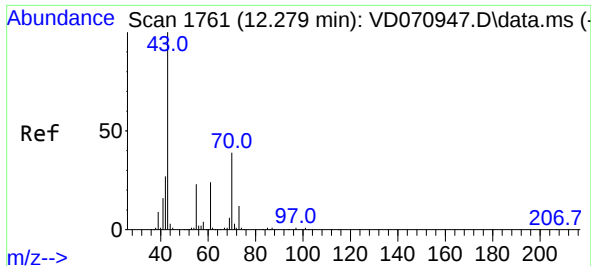
Tgt Ion:152 Resp: 45974
Ion Ratio Lower Upper
152 100
115 64.3 29.8 89.3
150 158.1 0.0 349.2



#73
Isopropylbenzene
Concen: 1.193 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

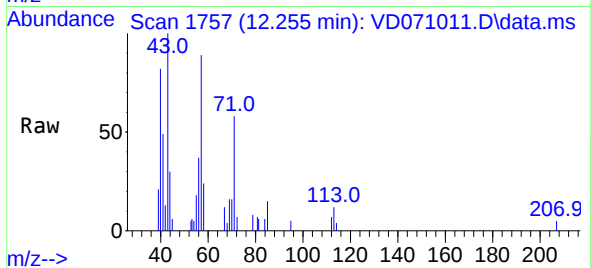
Tgt Ion:105 Resp: 3952
Ion Ratio Lower Upper
105 100
120 24.6 13.2 39.5





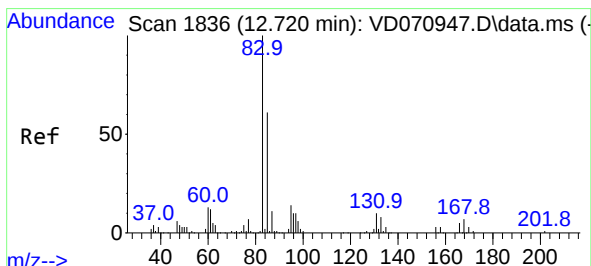
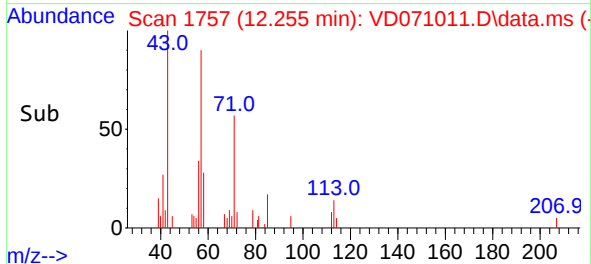
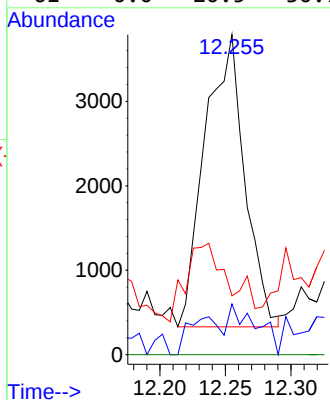
#74
N-amy1 acetate
Concen: 7.714 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.024 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 43 Resp: 7299

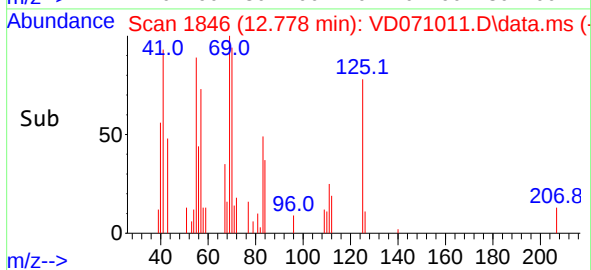
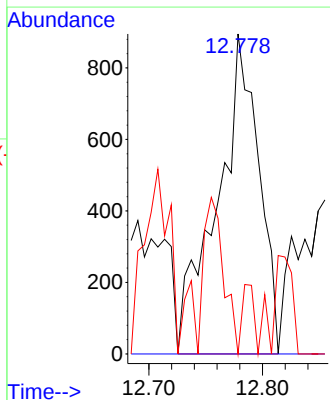
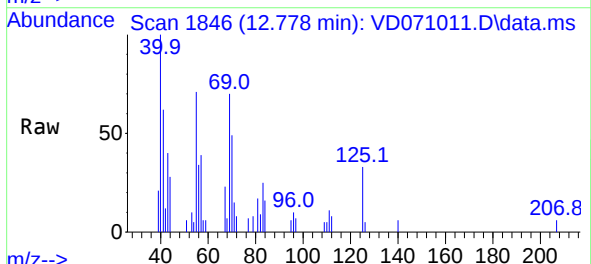
Ion	Ratio	Lower	Upper
43	100		
70	12.0	36.6	55.0#
55	0.0	22.5	33.7#
61	0.0	20.5	30.7#



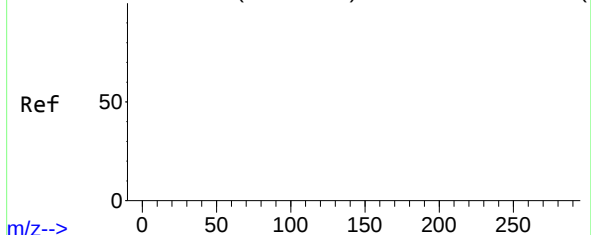
#75
1,1,2,2-Tetrachloroethane
Concen: 3.985 ug/l
RT: 12.778 min Scan# 1846
Delta R.T. 0.058 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Tgt Ion: 83 Resp: 2272

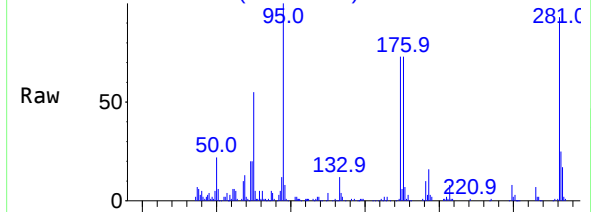
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	0.0	32.0	96.2#



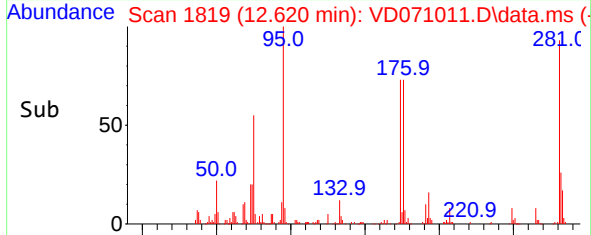
Abundance Scan 1847 (12.785 min): VD070947.D\data.ms (-



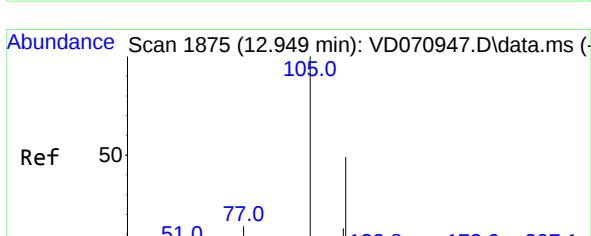
Ref



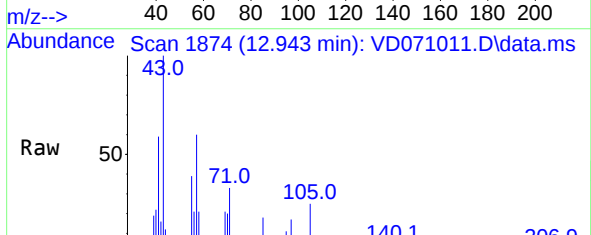
Raw



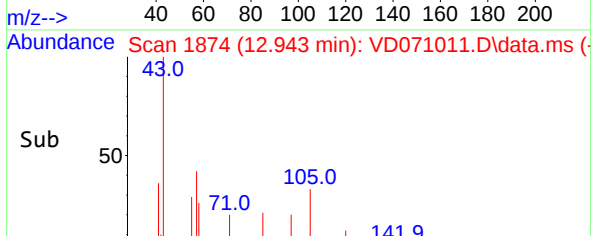
Sub



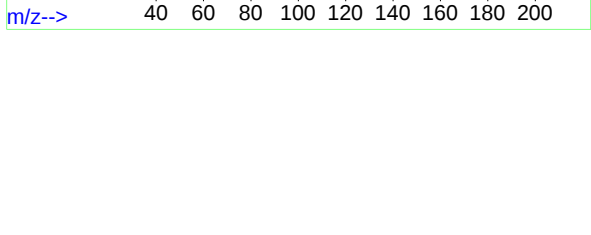
Ref



Raw



Sub

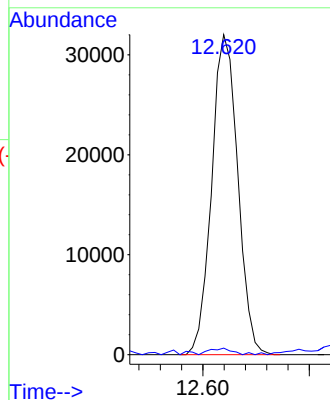


m/z-->

#76
1,2,3-Trichloropropane
Concen: 138.613 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.165 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

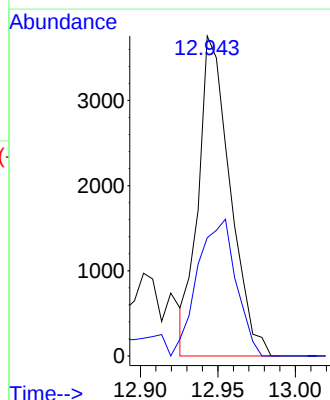
Instrument :
MSVOA_D
ClientSampleId :

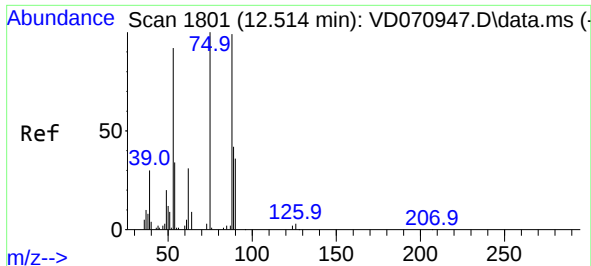
Tgt Ion: 75 Resp: 54435
Ion Ratio Lower Upper
75 100
77 1.7 158.4 475.3#



#80
1,3,5-Trimethylbenzene
Concen: 1.970 ug/l
RT: 12.943 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

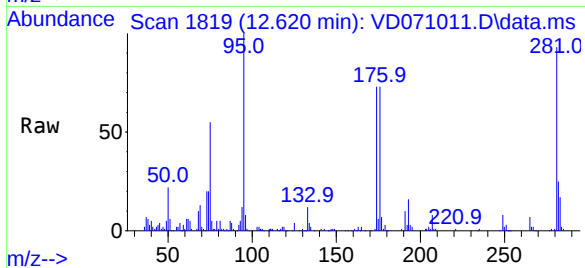
Tgt Ion:105 Resp: 5372
Ion Ratio Lower Upper
105 100
120 51.6 24.6 73.8



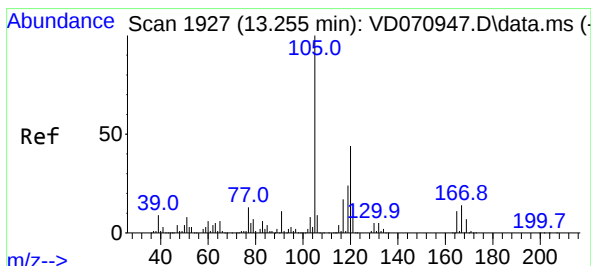
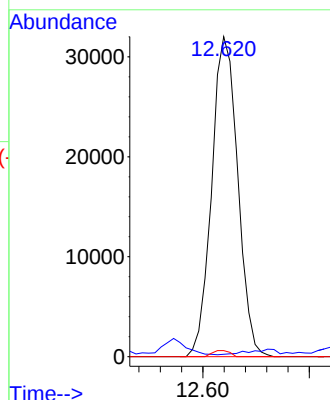
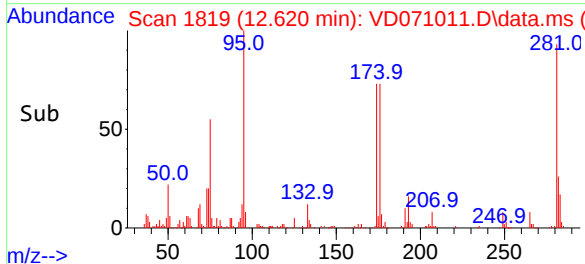


#81
trans-1,4-Dichloro-2-butene
Concen: 252.452 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

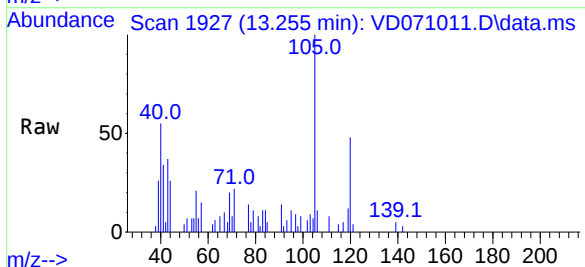
Instrument :
MSVOA_D
ClientSampleId :



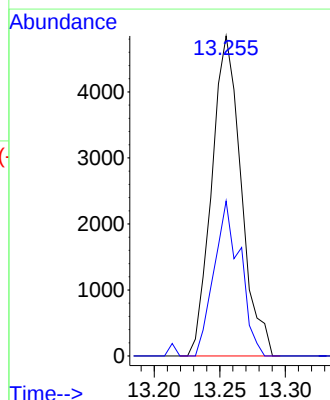
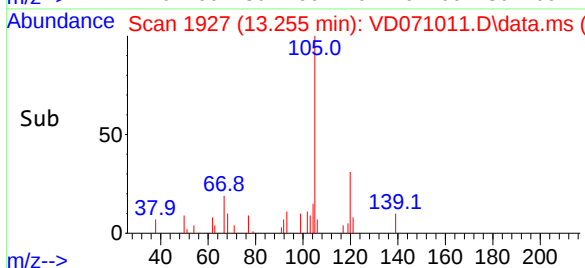
Tgt Ion: 75 Resp: 54435
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 1.3 34.5 51.7#

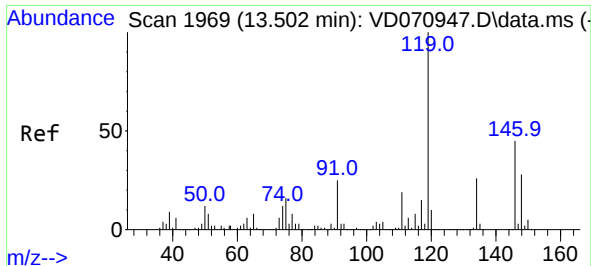


#84
1,2,4-Trimethylbenzene
Concen: 2.836 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12



Tgt Ion: 105 Resp: 7575
Ion Ratio Lower Upper
105 100
120 43.0 22.9 68.7

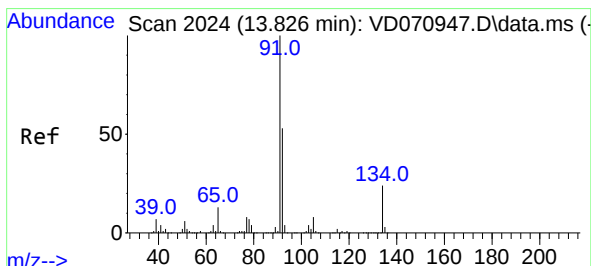
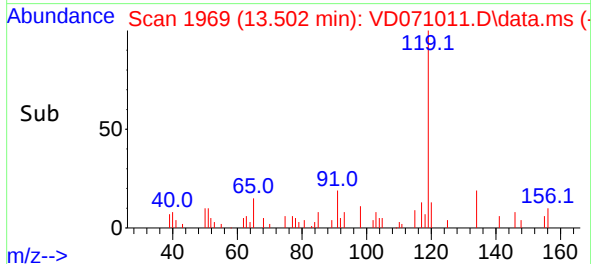
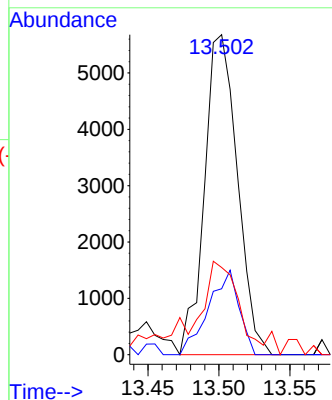
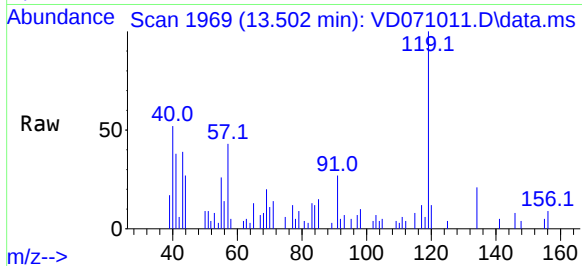




#86
p-Isopropyltoluene
Concen: 3.226 ug/l
RT: 13.502 min Scan# 1969
Delta R.T. -0.000 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

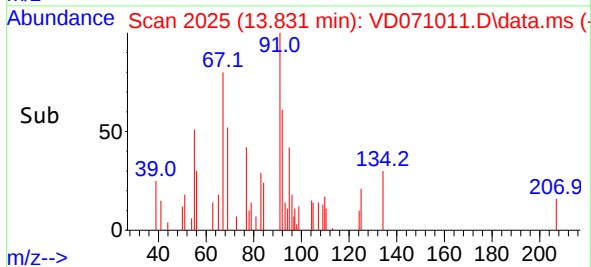
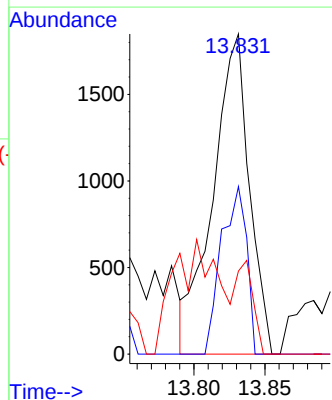
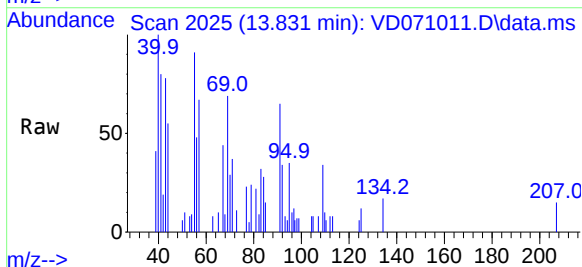
Instrument :
MSVOA_D
ClientSampleId :

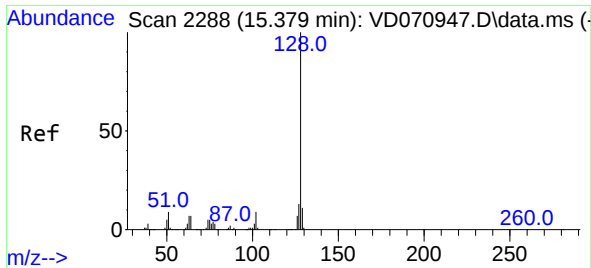
Tgt Ion:119 Resp: 9147
Ion Ratio Lower Upper
119 100
134 24.6 13.0 38.9
91 42.5 11.4 34.2#



#89
n-Butylbenzene
Concen: 1.158 ug/l
RT: 13.831 min Scan# 2025
Delta R.T. 0.005 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

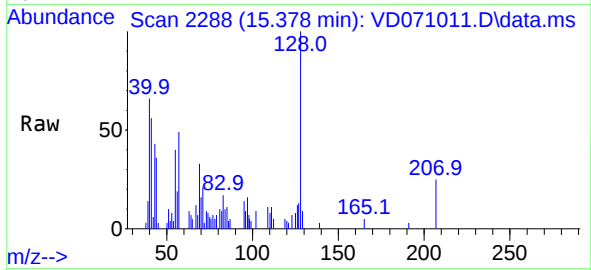
Tgt Ion: 91 Resp: 3301
Ion Ratio Lower Upper
91 100
92 36.2 27.3 81.9
134 13.6 12.3 36.9





#95
Naphthalene
Concen: 5.976 ug/l
RT: 15.378 min Scan# 21
Delta R.T. -0.001 min
Lab File: VD071011.D
Acq: 12 Nov 2021 04:12

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:128 Resp: 8753

Ion	Ratio	Lower	Upper
128	100		
127	24.7	10.7	16.1#
129	12.4	8.7	13.1

