

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD072921\
 Data File : VD069919.D
 Acq On : 29 Jul 2021 18:52
 Operator : VA/SY
 Sample : M3216-11
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 30 00:58:07 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072221S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 23 04:51:13 2021
 Response via : Initial Calibration

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

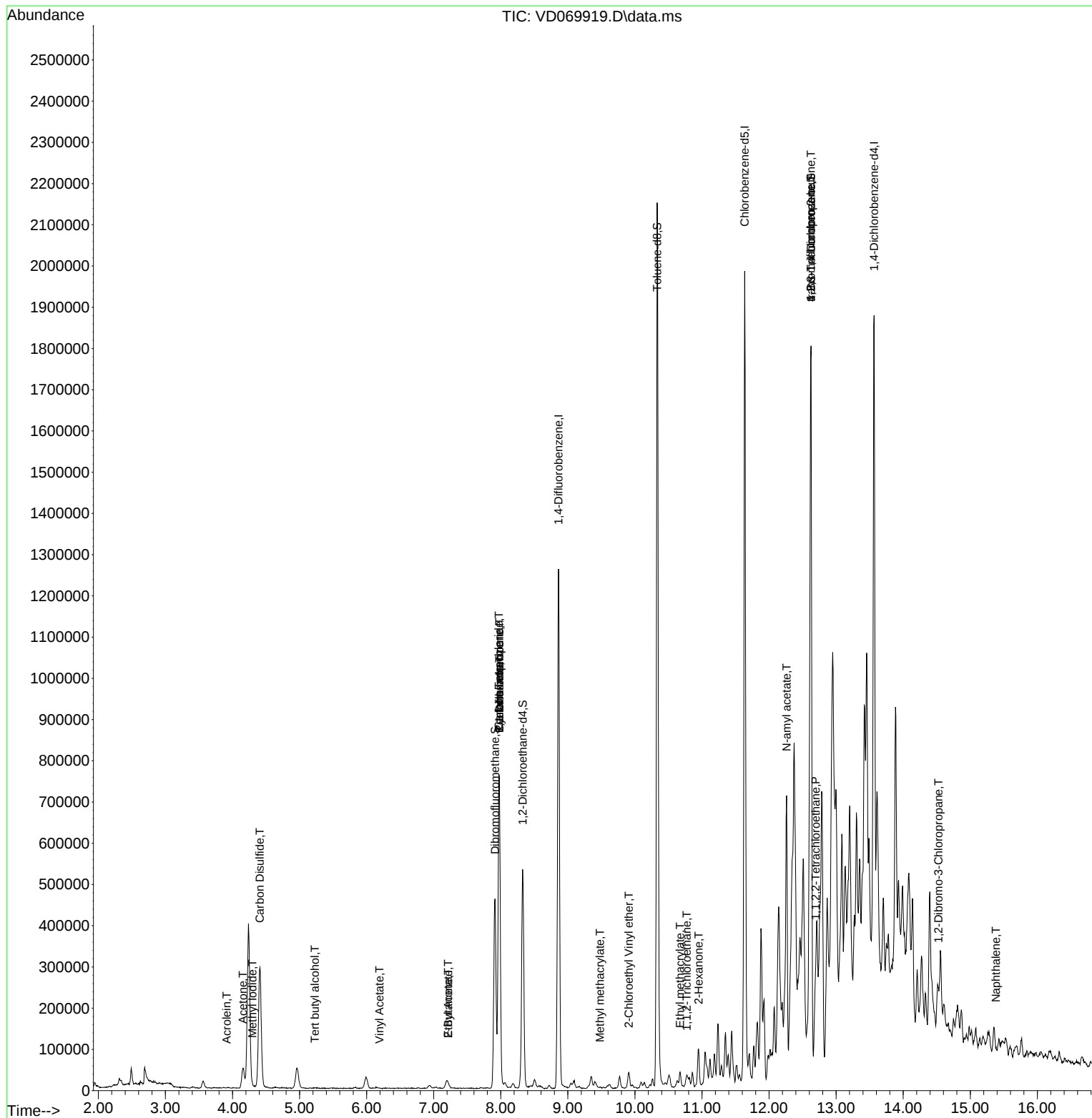
Internal Standards						
1) Pentafluorobenzene	7.979	168	546984	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	1070044	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	1111346	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	434966	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	412203	65.525	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 131.040%			
35) Dibromofluoromethane	7.914	113	347996	51.589	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.180%			
50) Toluene-d8	10.332	98	1429321	54.952	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 109.900%			
62) 4-Bromofluorobenzene	12.626	95	526859	60.609	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 121.220%			
Target Compounds						Qvalue
5) Bromomethane	2.779	94	1369	Below Cal		81
10) Methyl Iodide	4.297	142	421	3.520 ug/l #		57
11) Tert butyl alcohol	5.226	59	920	2.826 ug/l #		73
13) Acrolein	3.914	56	623	1.367 ug/l #		66
16) Acetone	4.156	43	87747	77.214 ug/l		99
17) Carbon Disulfide	4.409	76	655801	29.307 ug/l		99
20) Methylene Chloride	4.961	84	39755	Below Cal		93
23) Vinyl Acetate	6.191	43	91	20.357 ug/l #		71
25) 2-Butanone	7.214	43	15167	9.842 ug/l		95
31) Cyclohexane	7.979	56	15968	1.299 ug/l #		1
36) 1,1-Dichloropropene	7.979	75	48335	4.186 ug/l #		50
37) Ethyl Acetate	7.214	43	15167	3.608 ug/l #		67
38) Carbon Tetrachloride	7.973	117	59265	5.619 ug/l #		16
48) Methyl methacrylate	9.479	41	786	2.932 ug/l #		13
55) 1,1,2-Trichloroethane	10.773	97	7633	1.251 ug/l #		33
56) Ethyl methacrylate	10.673	69	4112	4.399 ug/l #		4
58) 2-Chloroethyl Vinyl ether	9.908	63	121	20.904 ug/l #		48
59) 2-Hexanone	10.949	43	31950	12.311 ug/l #		27
74) N-amyl acetate	12.261	43	137999	21.467 ug/l #		74
75) 1,1,2,2-Tetrachloroethane	12.696	83	20610	3.302 ug/l #		17
76) 1,2,3-Trichloropropane	12.626	75	253748	54.884 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.626	75	253748	166.503 ug/l #		16
92) 1,2-Dibromo-3-Chloropr...	14.526	75	2066	2.299 ug/l #		7
95) Naphthalene	15.384	128	4141	5.261 ug/l #		69

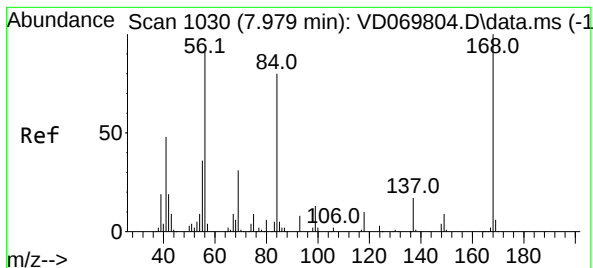
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 23 04:51:13 2021
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.000 min

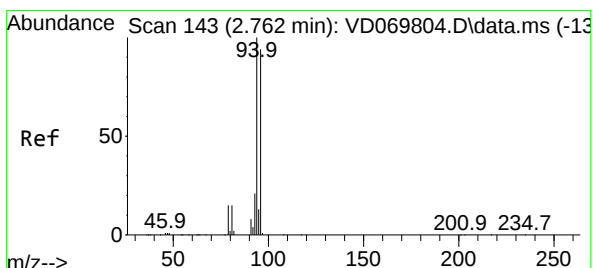
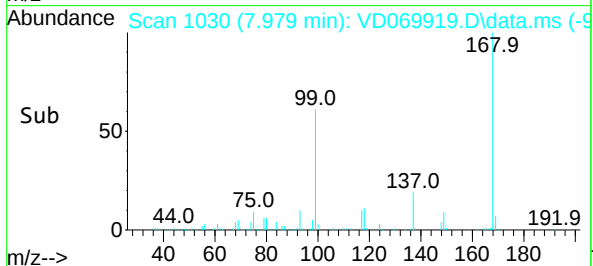
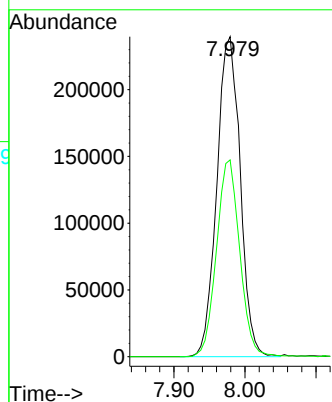
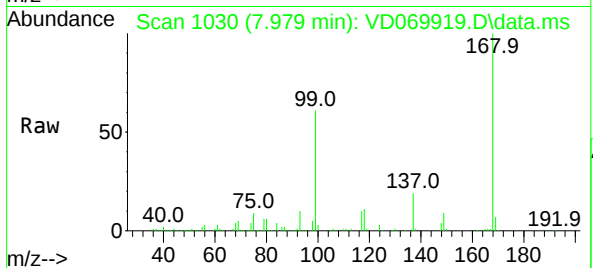
Lab File: VD069919.D

Acq: 29 Jul 2021 18:52

Tgt Ion:168 Resp: 546984

Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
168	100		
99	61.5	51.1	76.7



#5

Bromomethane

Concen: Below Cal

RT: 2.779 min Scan# 146

Delta R.T. 0.017 min

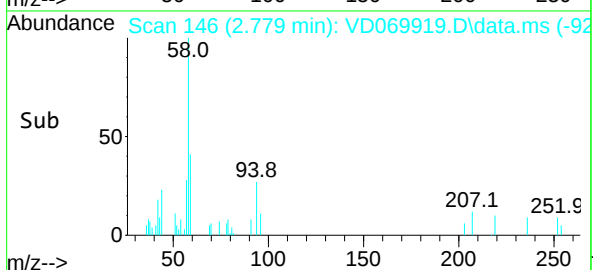
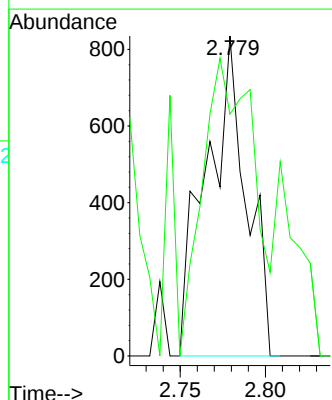
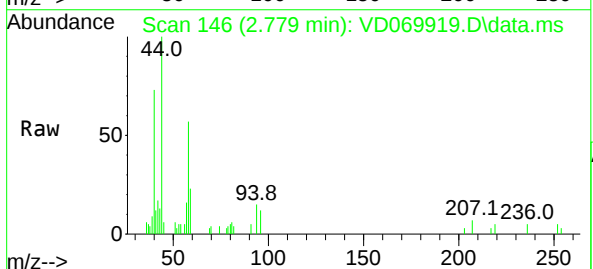
Lab File: VD069919.D

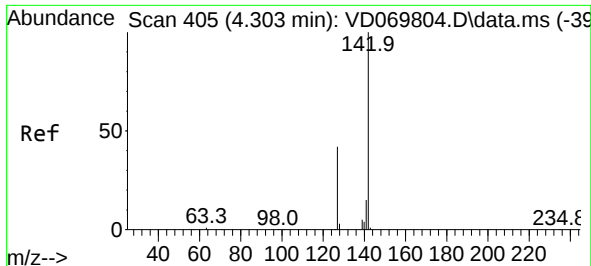
Acq: 29 Jul 2021 18:52

Tgt Ion: 94 Resp: 1369

Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
94	100		
96	75.6	74.8	112.2

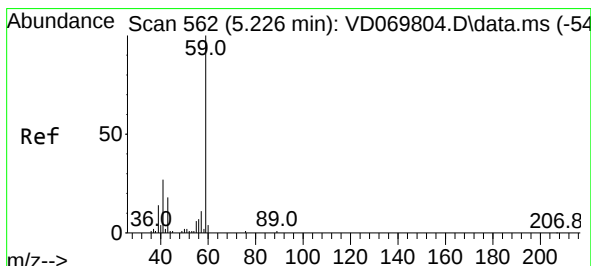
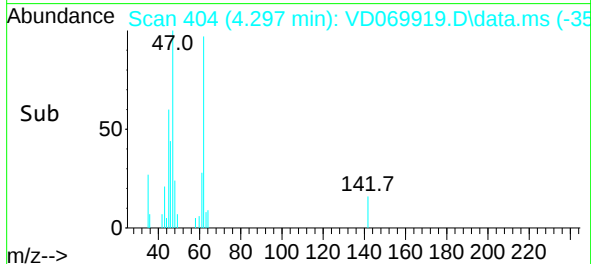
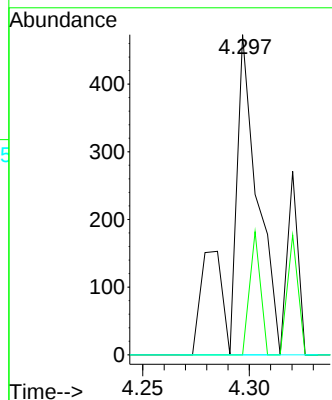
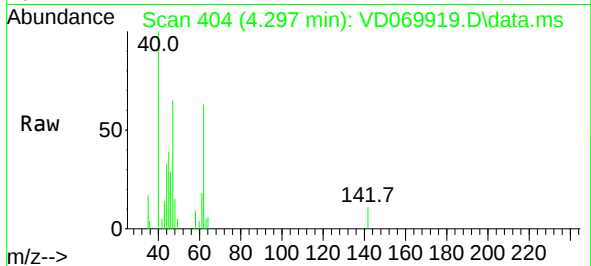




#10
Methyl Iodide
Concen: 3.520 ug/l
RT: 4.297 min Scan# 404
Delta R.T. -0.006 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

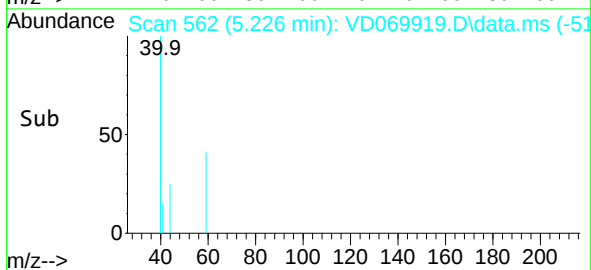
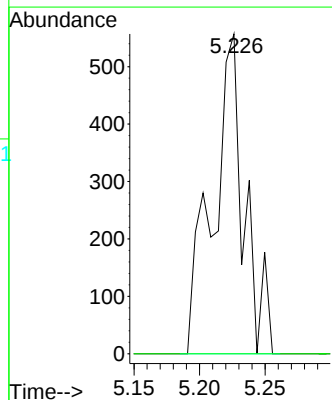
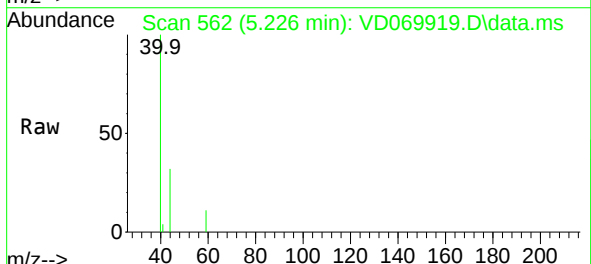
Instrument :
MSVOA_D
ClientSampled :

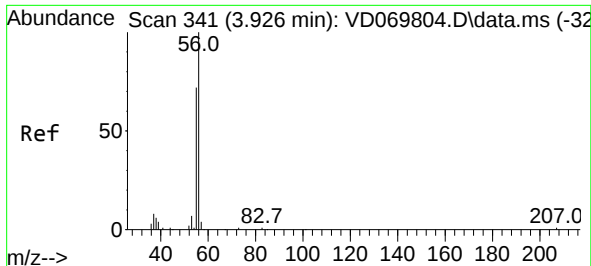
Tgt Ion:142 Resp: 421
Ion Ratio Lower Upper
142 100
127 15.2 35.7 53.5#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 2.826 ug/l
RT: 5.226 min Scan# 562
Delta R.T. -0.000 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 59 Resp: 920
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

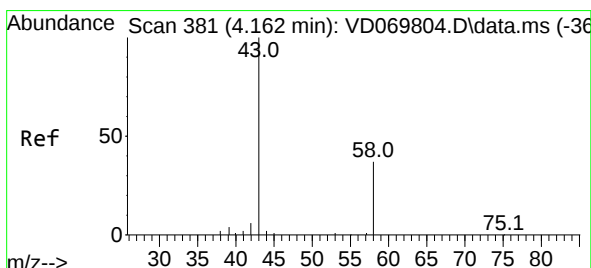
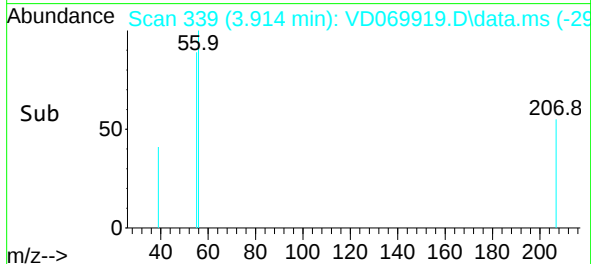
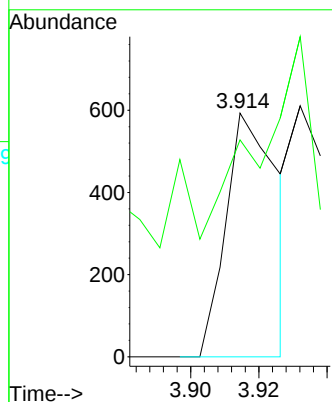
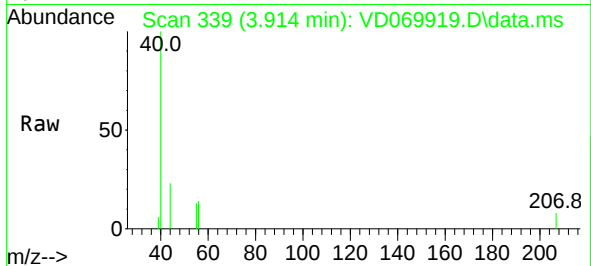




#13
Acrolein
Concen: 1.367 ug/l
RT: 3.914 min Scan# 339
Delta R.T. -0.012 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

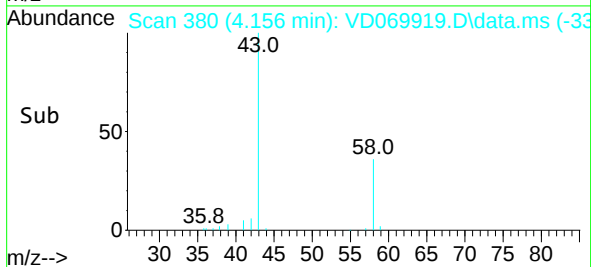
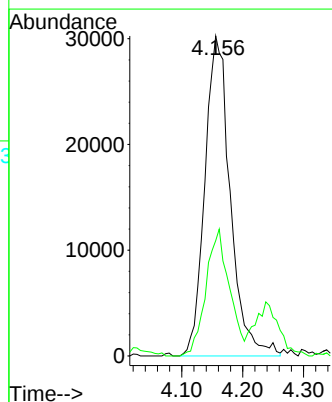
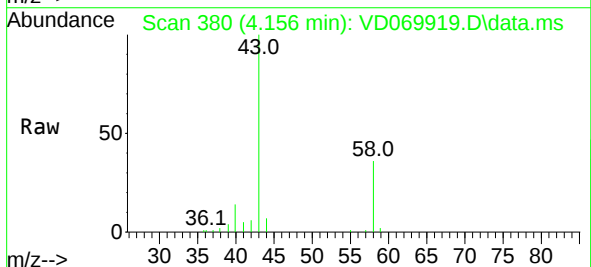
Instrument :
MSVOA_D
ClientSampled :

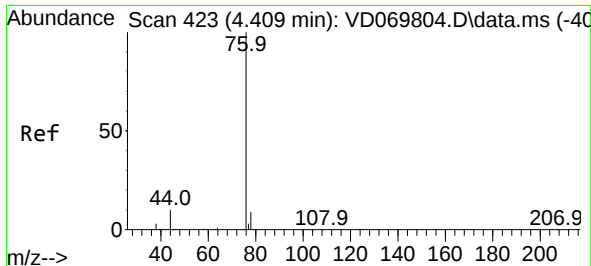
Tgt Ion: 56 Resp: 623
Ion Ratio Lower Upper
56 100
55 43.3 57.2 85.8#



#16
Acetone
Concen: 77.214 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 43 Resp: 87747
Ion Ratio Lower Upper
43 100
58 36.1 29.4 44.0

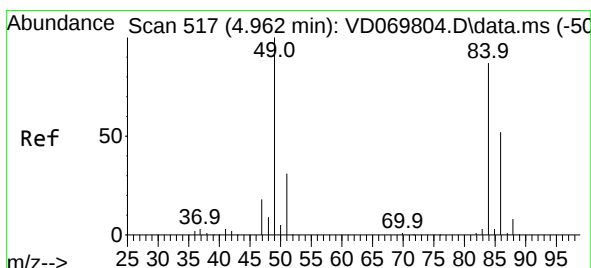
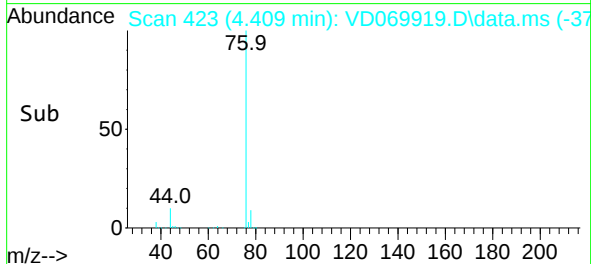
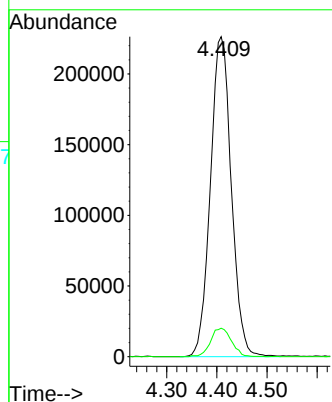
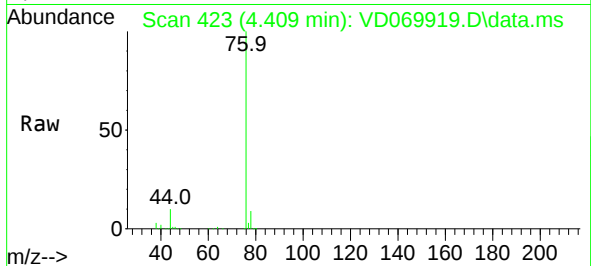




#17
Carbon Disulfide
Concen: 29.307 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

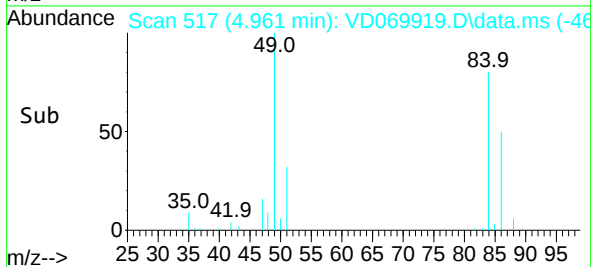
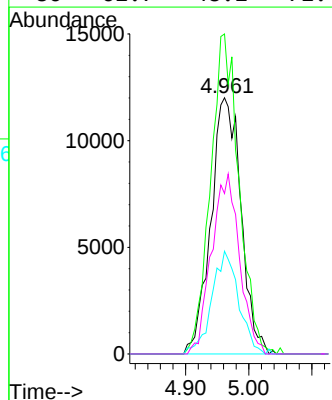
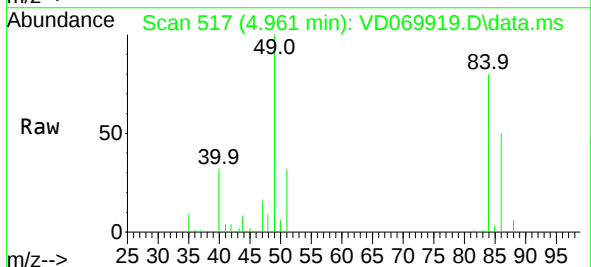
Instrument :
MSVOA_D
ClientSampled :

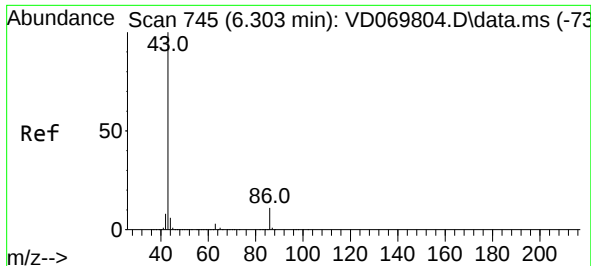
Tgt Ion: 76 Resp: 655801
Ion Ratio Lower Upper
76 100
78 8.9 7.3 10.9



#20
Methylene Chloride
Concen: Below Cal
RT: 4.961 min Scan# 517
Delta R.T. -0.001 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 84 Resp: 39755
Ion Ratio Lower Upper
84 100
49 124.9 92.4 138.6
51 40.1 28.5 42.7
86 62.7 48.2 72.4

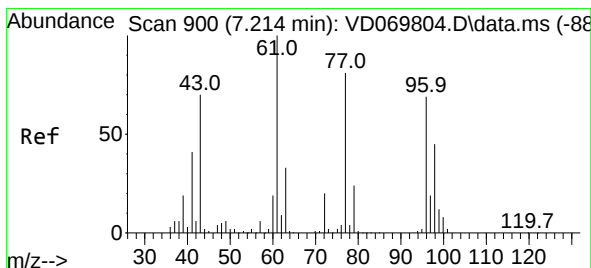
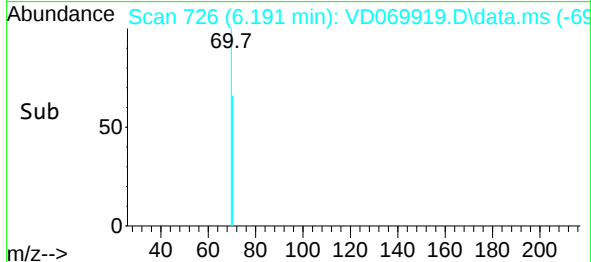
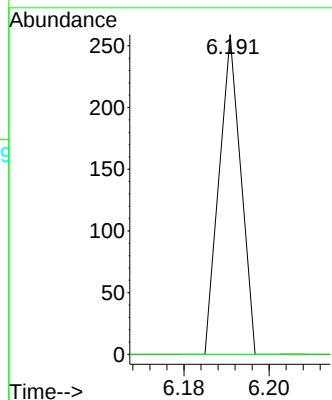
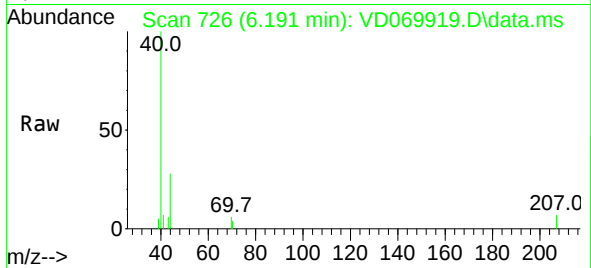




#23
 Vinyl Acetate
 Concen: 20.357 ug/l
 RT: 6.191 min Scan# 726
 Delta R.T. -0.112 min
 Lab File: VD069919.D
 Acq: 29 Jul 2021 18:52

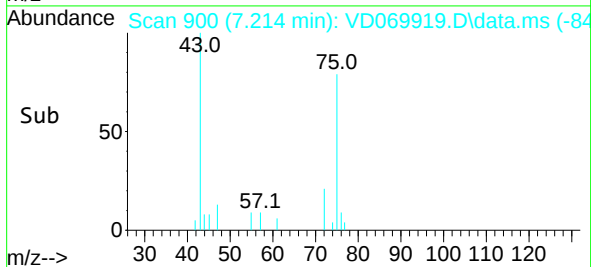
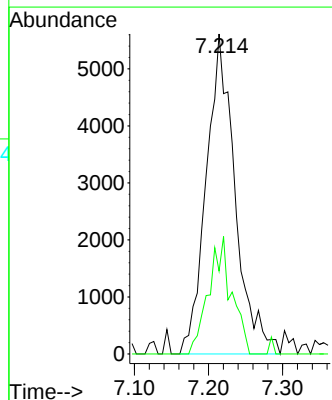
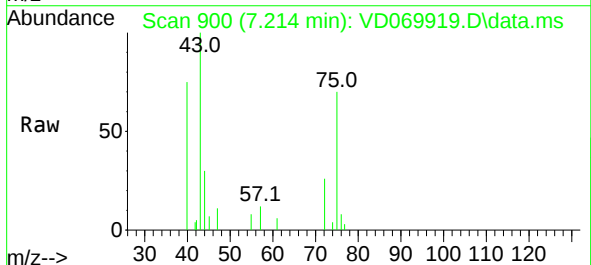
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 MSVOA_D
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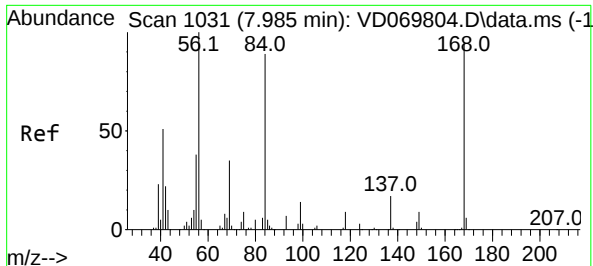
Tgt Ion: 43 Resp: 91
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 13.0#



#25
 2-Butanone
 Concen: 9.842 ug/l
 RT: 7.214 min Scan# 900
 Delta R.T. -0.000 min
 Lab File: VD069919.D
 Acq: 29 Jul 2021 18:52

Tgt Ion: 43 Resp: 15167
 Ion Ratio Lower Upper
 43 100
 72 25.9 22.8 34.2

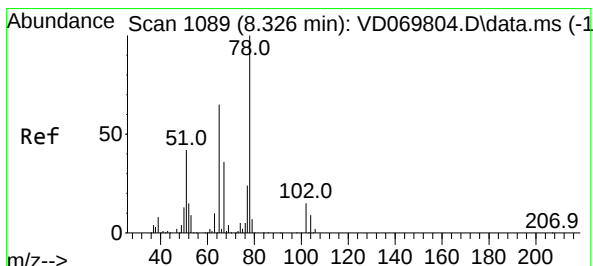
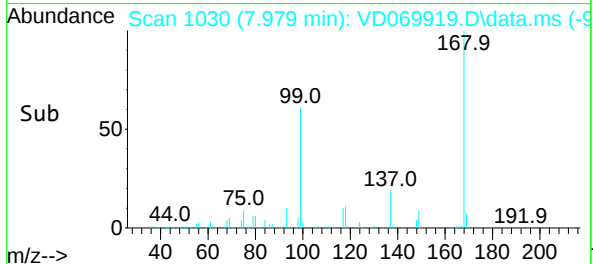
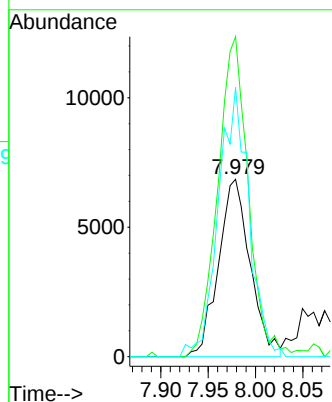
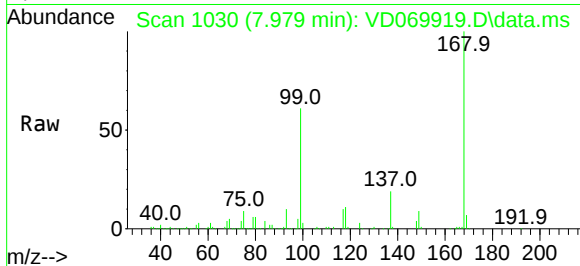




#31
Cyclohexane
Concen: 1.299 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

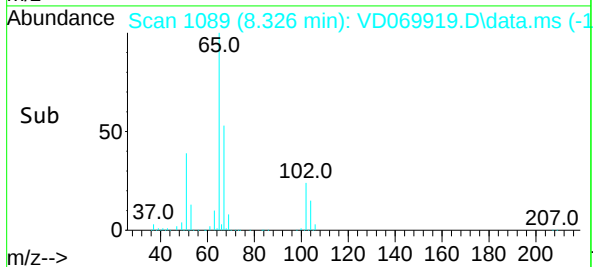
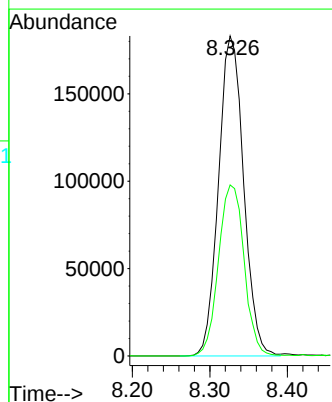
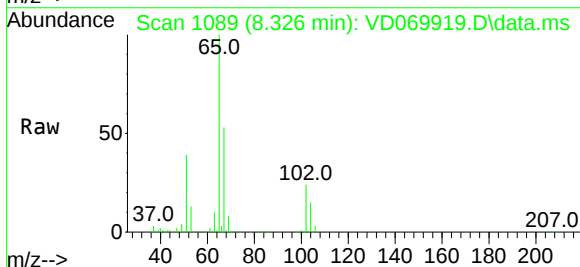
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MSVOA_D
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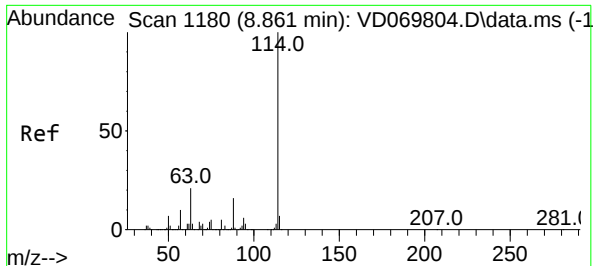
Tgt Ion: 56 Resp: 15968
Ion Ratio Lower Upper
56 100
69 180.3 27.9 41.9#
84 151.7 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 65.525 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 65 Resp: 412203
Ion Ratio Lower Upper
65 100
67 54.7 0.0 111.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD069919.D

Acq: 29 Jul 2021 18:52

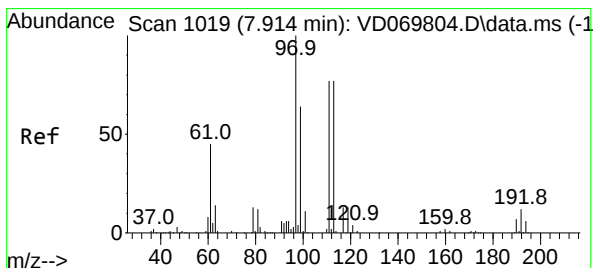
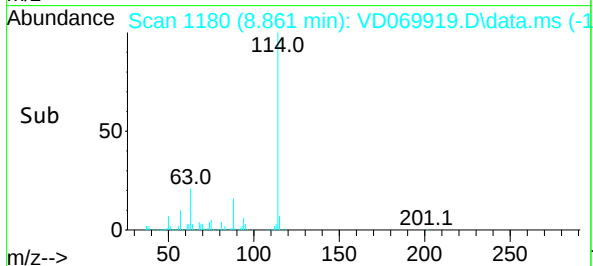
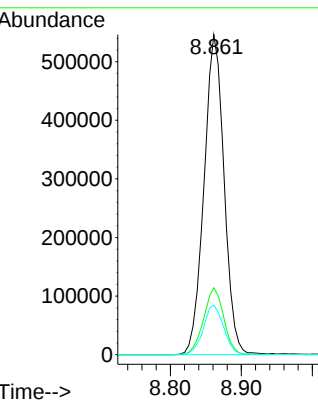
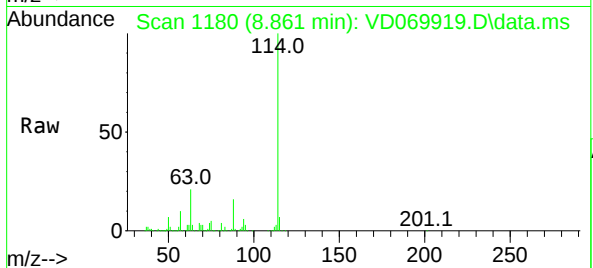
Tgt Ion:114 Resp: 1070044

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.6

88 15.5 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.589 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VD069919.D

Acq: 29 Jul 2021 18:52

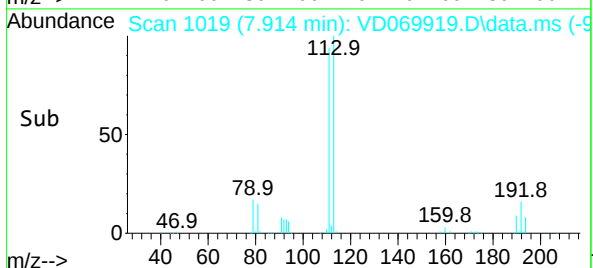
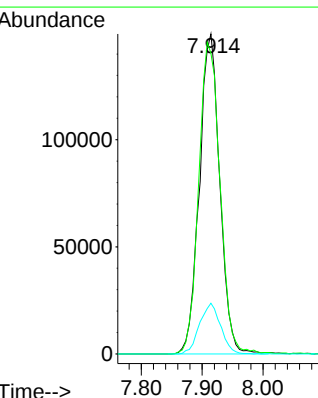
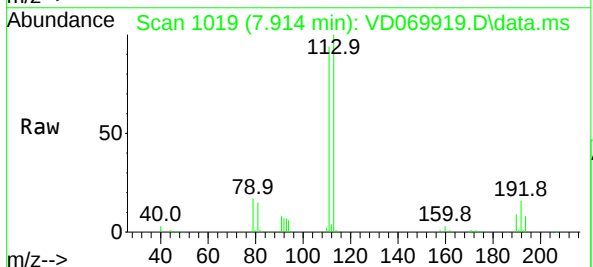
Tgt Ion:113 Resp: 347996

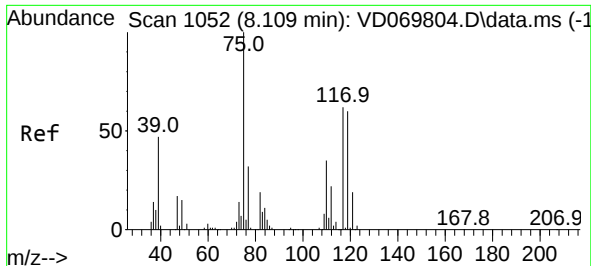
Ion Ratio Lower Upper

113 100

111 101.6 80.5 120.7

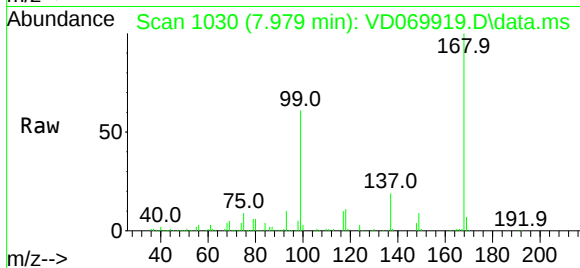
192 16.4 12.6 19.0



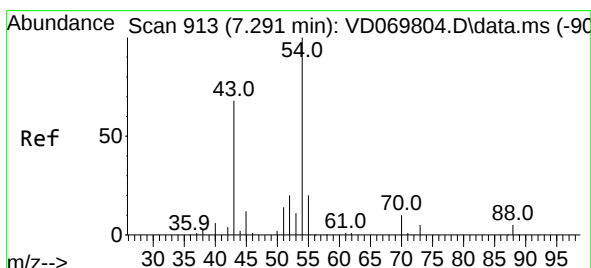
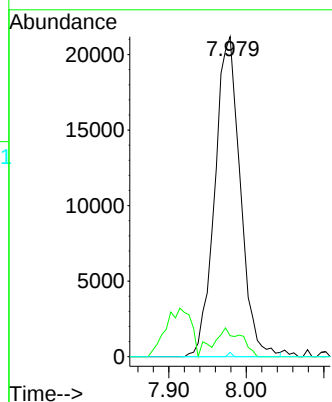
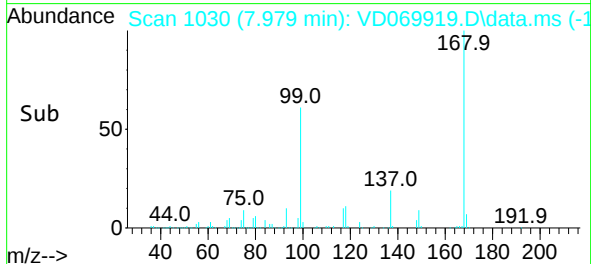


#36
1,1-Dichloropropene
Concen: 4.186 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.130 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

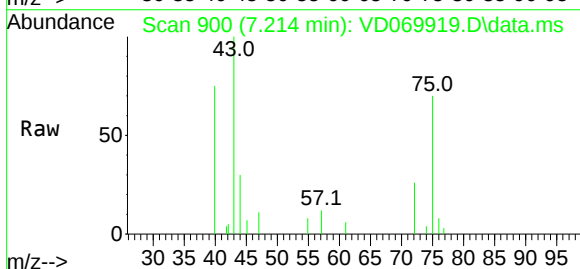
Instrument :
MSVOA_D
ClientSampled :



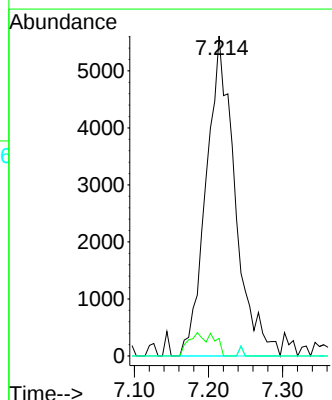
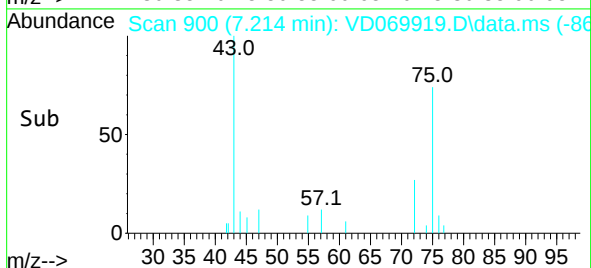
Tgt Ion: 75 Resp: 48335
Ion Ratio Lower Upper
75 100
110 8.5 16.9 50.7#
77 0.2 24.9 37.3#

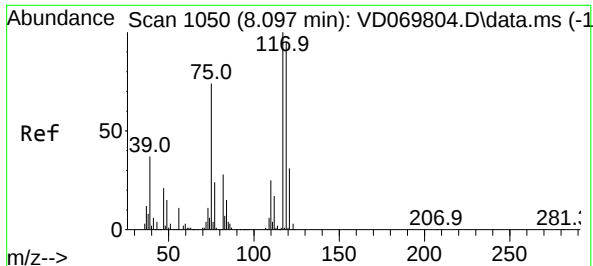


#37
Ethyl Acetate
Concen: 3.608 ug/l
RT: 7.214 min Scan# 900
Delta R.T. -0.077 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52



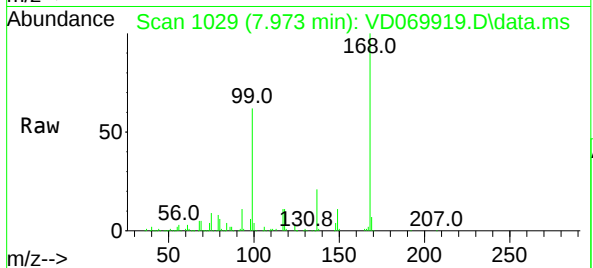
Tgt Ion: 43 Resp: 15167
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.9 13.3#



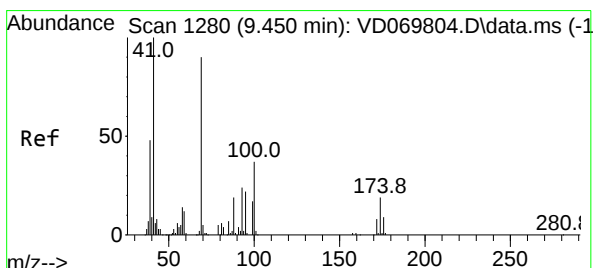
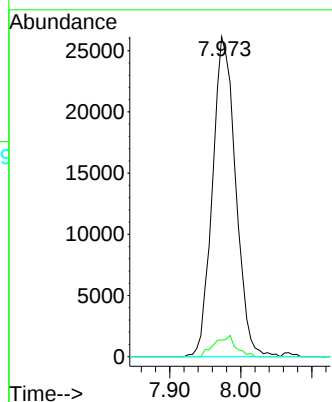
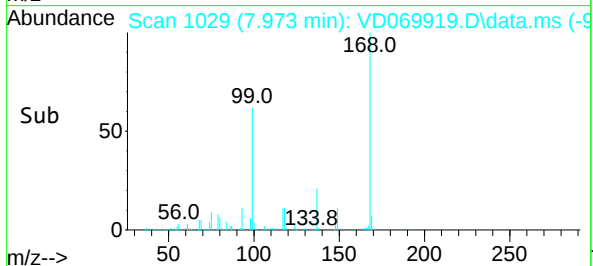


#38
Carbon Tetrachloride
Concen: 5.619 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

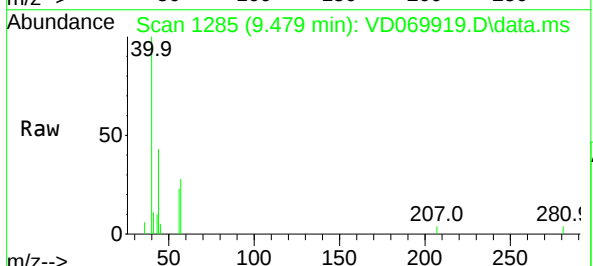
Instrument :
MSVOA_D
ClientSampled :



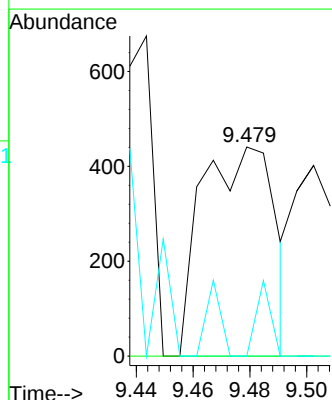
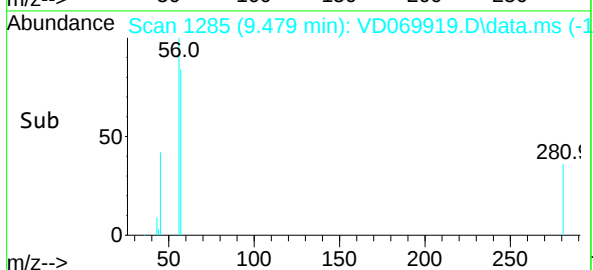
Tgt Ion:117 Resp: 59265
Ion Ratio Lower Upper
117 100
119 5.2 76.2 114.2#
121 0.0 24.5 36.7#

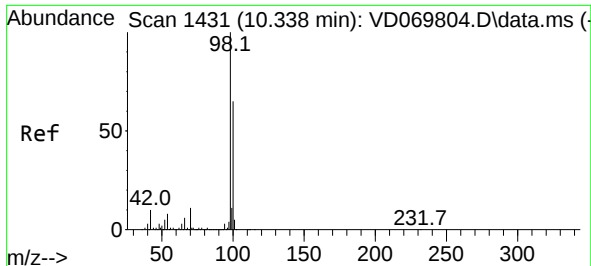


#48
Methyl methacrylate
Concen: 2.932 ug/l
RT: 9.479 min Scan# 1285
Delta R.T. 0.029 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52



Tgt Ion: 41 Resp: 786
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.2#
39 0.0 36.6 55.0#

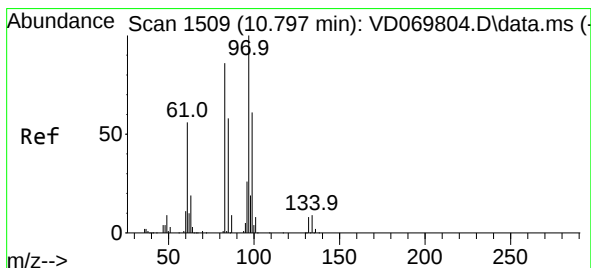
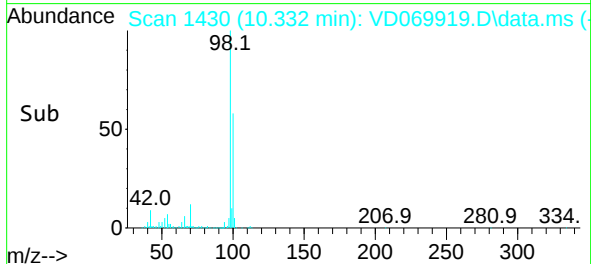
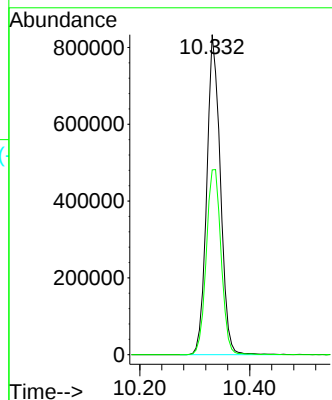
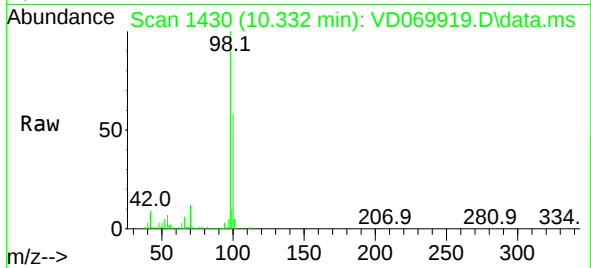




#50
Toluene-d8
Concen: 54.952 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

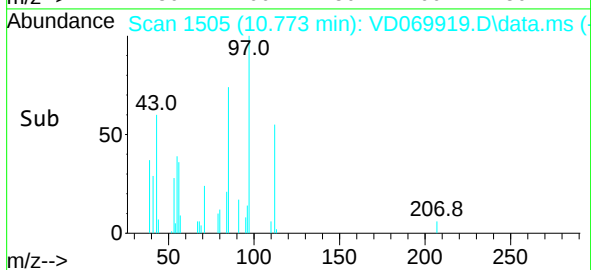
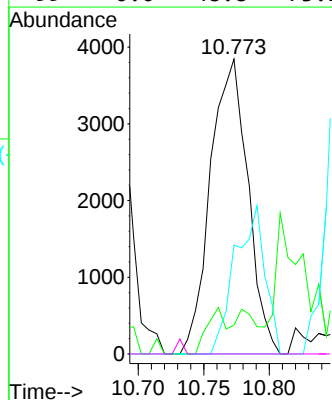
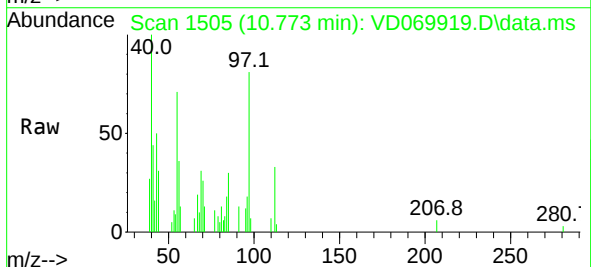
Instrument :
MSVOA_D
ClientSampleId :

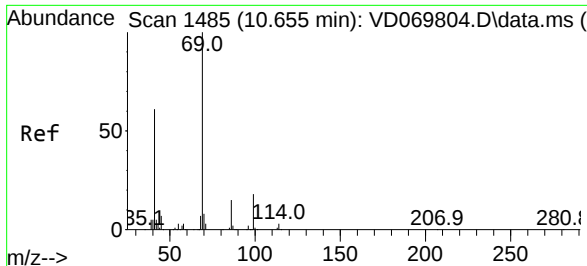
Tgt Ion: 98 Resp: 1429321
Ion Ratio Lower Upper
98 100
100 63.0 51.9 77.9



#55
1,1,2-Trichloroethane
Concen: 1.251 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.024 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 97 Resp: 7633
Ion Ratio Lower Upper
97 100
83 9.8 69.1 103.7#
85 36.9 46.2 69.2#
99 0.0 48.8 73.2#

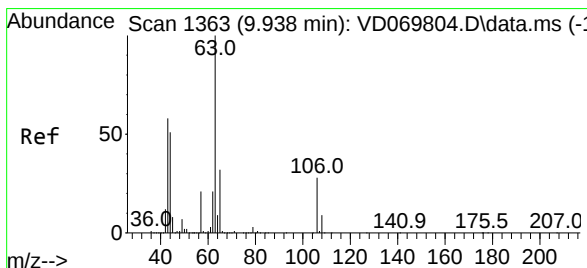
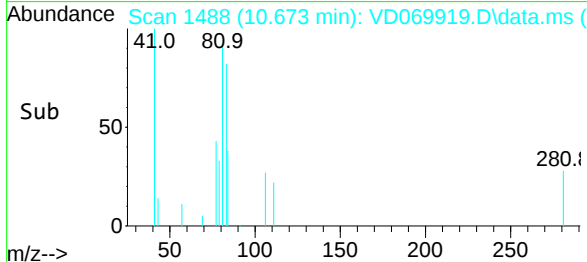
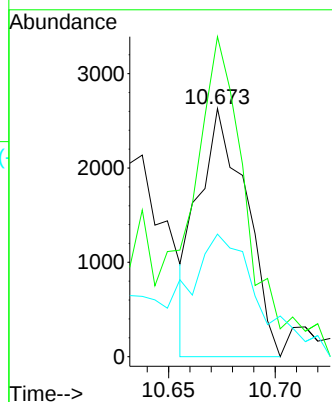
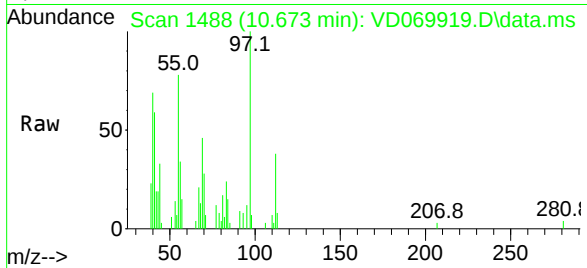




#56
Ethyl methacrylate
Concen: 4.399 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

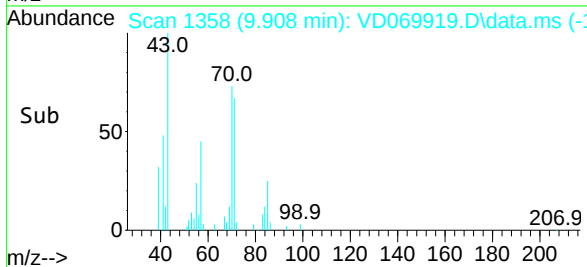
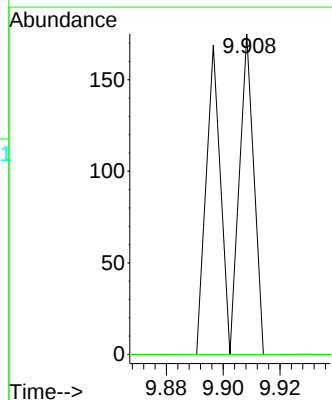
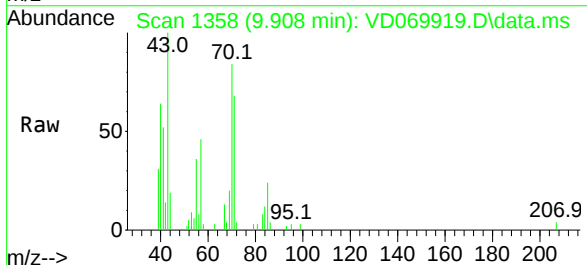
Instrument :
MSVOA_D
ClientSampleId :

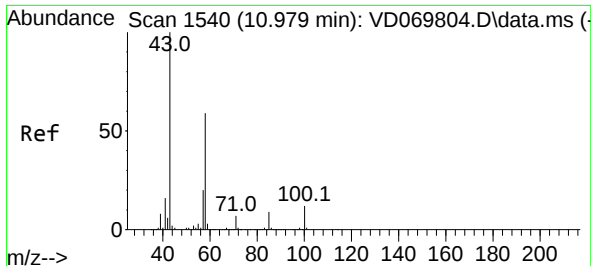
Tgt Ion: 69 Resp: 4112
Ion Ratio Lower Upper
69 100
41 141.4 50.2 75.2#
39 70.6 22.0 33.0#



#58
2-Chloroethyl Vinyl ether
Concen: 20.904 ug/l
RT: 9.908 min Scan# 1358
Delta R.T. -0.030 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 63 Resp: 121
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.6#

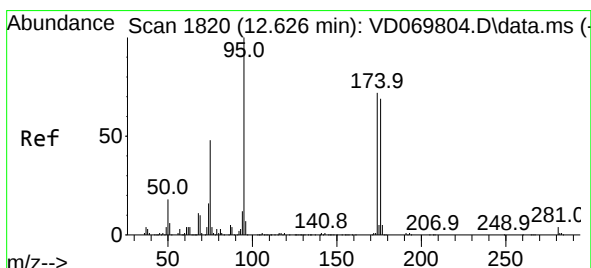
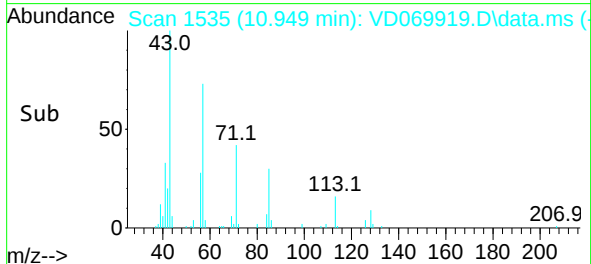
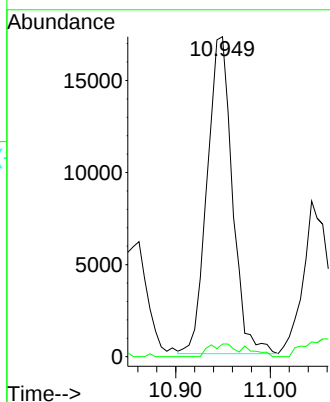
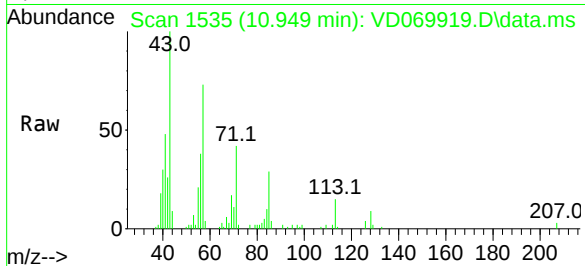




#59
2-Hexanone
Concen: 12.311 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.030 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

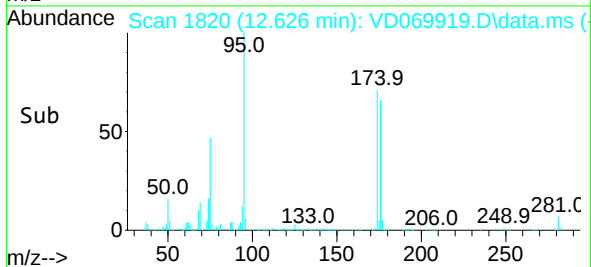
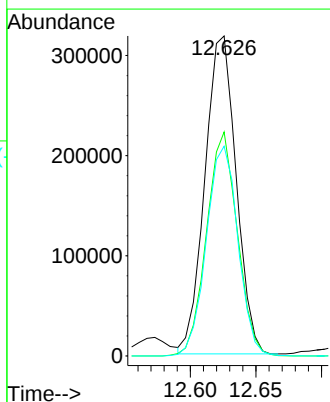
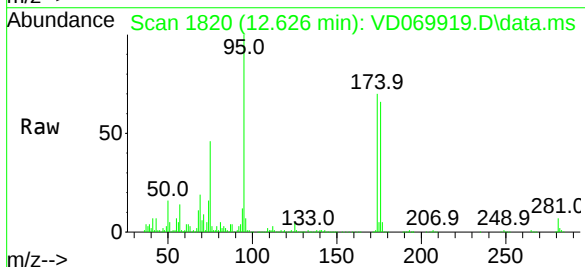
Instrument :
MSVOA_D
ClientSampleId :

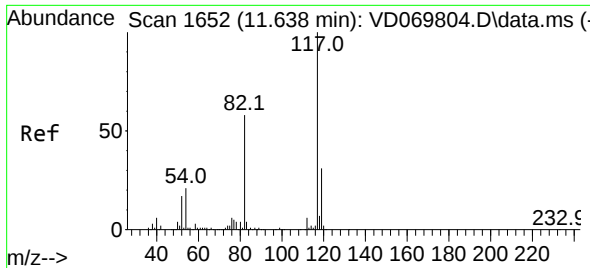
Tgt Ion: 43 Resp: 31950
Ion Ratio Lower Upper
43 100
58 4.0 29.4 88.3#



#62
4-Bromofluorobenzene
Concen: 60.609 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 95 Resp: 526859
Ion Ratio Lower Upper
95 100
174 69.4 0.0 142.6
176 66.5 0.0 134.2

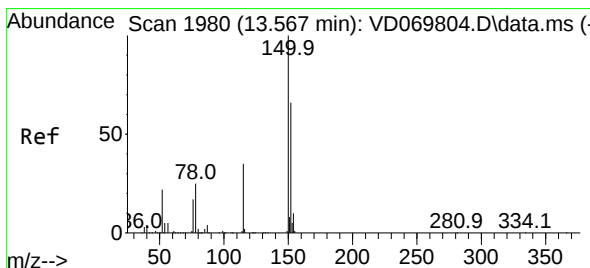
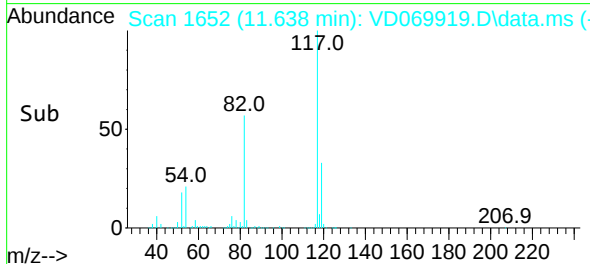
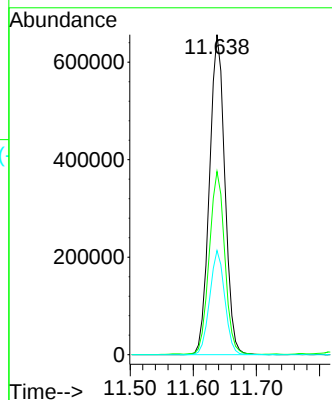
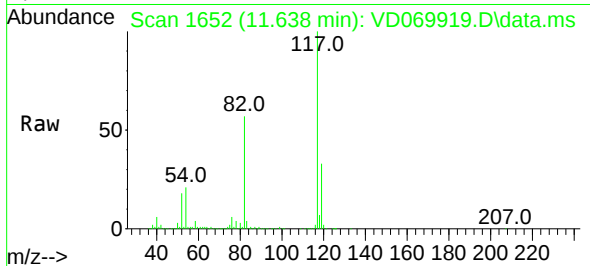




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

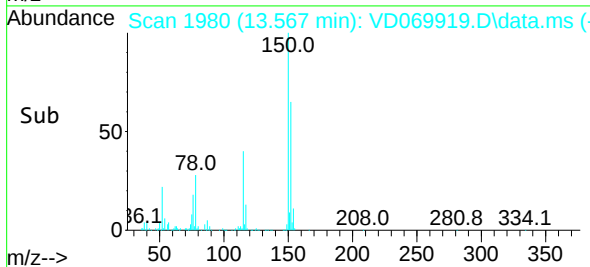
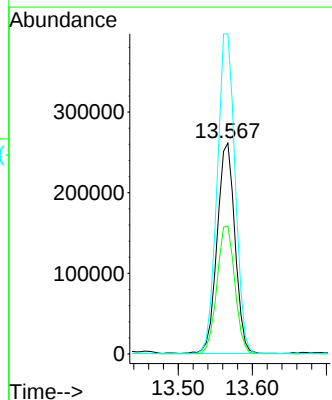
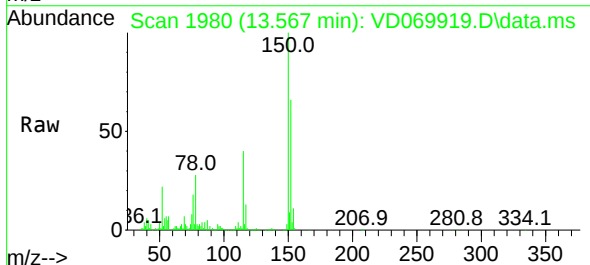
Instrument :
MSVOA_D
ClientSampleId :

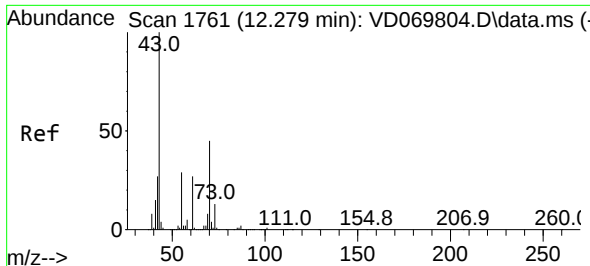
Tgt Ion:117 Resp: 1111346
Ion Ratio Lower Upper
117 100
82 57.1 46.3 69.5
119 32.5 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion:152 Resp: 434966
Ion Ratio Lower Upper
152 100
115 60.9 31.1 93.3
150 153.8 0.0 343.0

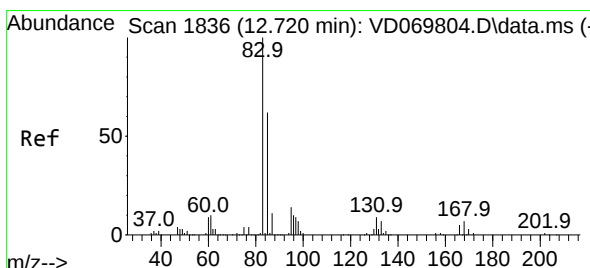
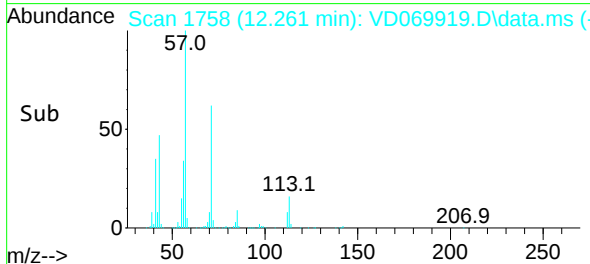
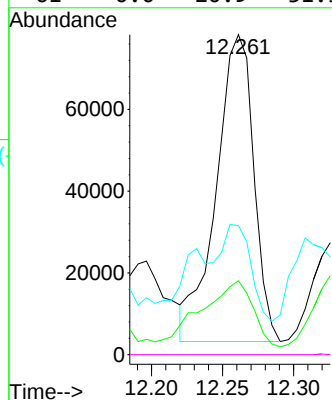
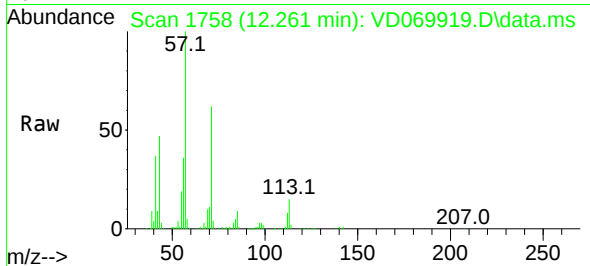




#74
N-amy1 acetate
Concen: 21.467 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

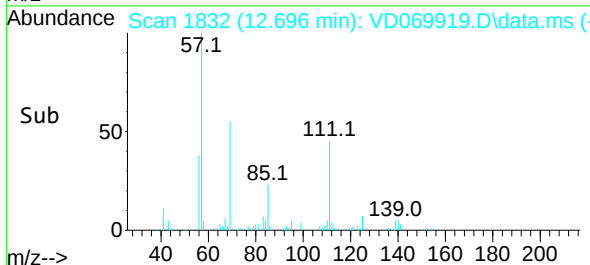
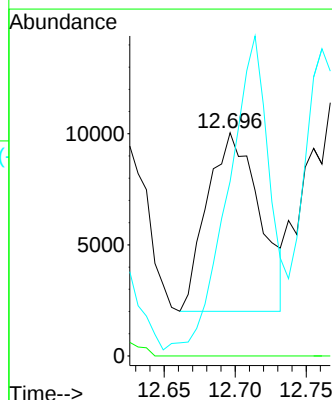
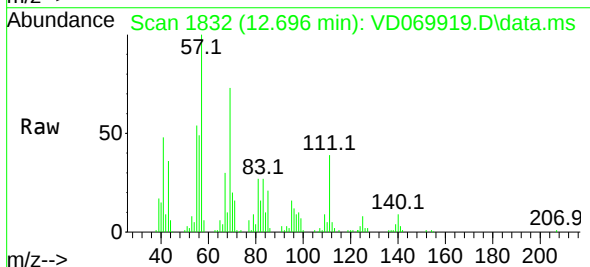
Instrument :
MSVOA_D
ClientSampleId :

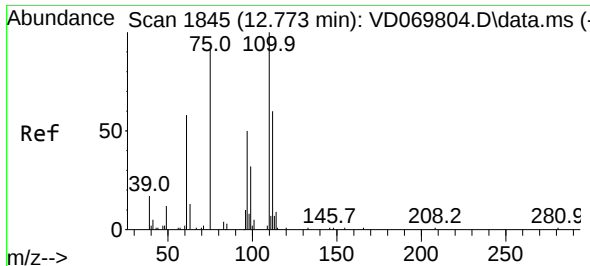
Tgt Ion: 43	Resp: 137999
Ion Ratio	Lower Upper
43 100	
70 29.6	37.9 56.9#
55 28.1	23.7 35.5
61 0.0	20.9 31.3#



#75
1,1,2,2-Tetrachloroethane
Concen: 3.302 ug/l
RT: 12.696 min Scan# 1832
Delta R.T. -0.024 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 83	Resp: 20610
Ion Ratio	Lower Upper
83 100	
131 0.0	4.9 14.6#
85 134.8	31.8 95.4#

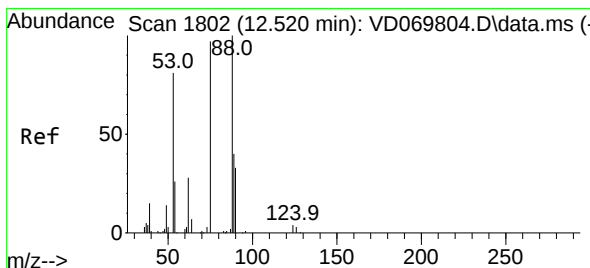
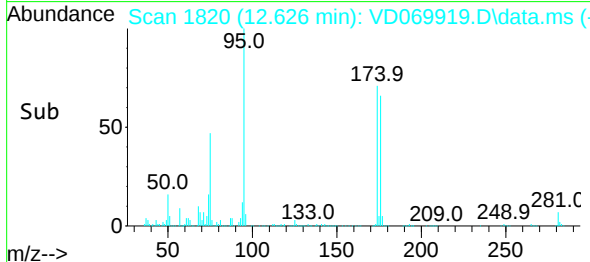
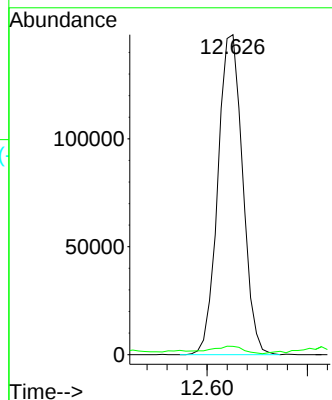
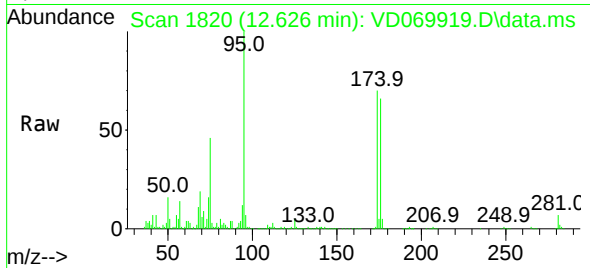




#76
1,2,3-Trichloropropane
Concen: 54.884 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

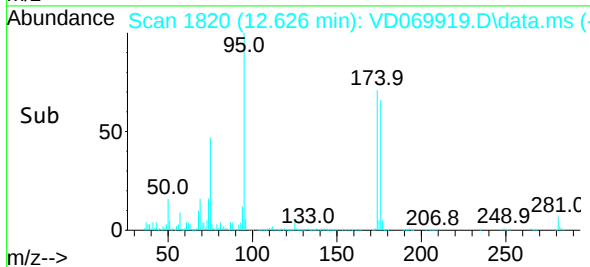
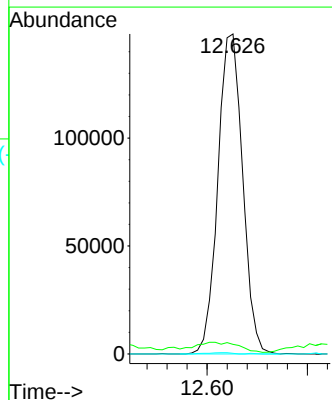
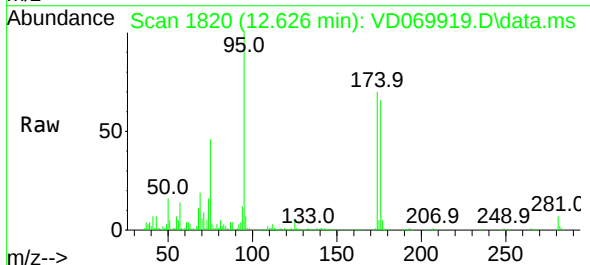
Instrument :
MSVOA_D
ClientSampleId :

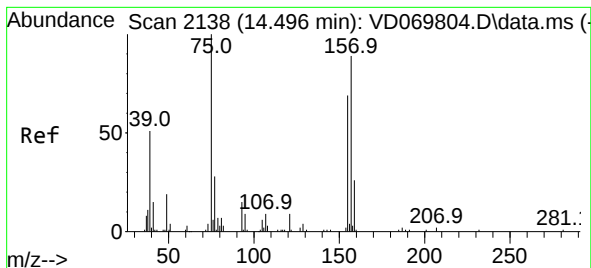
Tgt Ion: 75 Resp: 253748
Ion Ratio Lower Upper
75 100
77 3.0 181.5 544.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 166.503 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 75 Resp: 253748
Ion Ratio Lower Upper
75 100
53 0.0 67.2 100.8#
89 0.1 35.8 53.6#

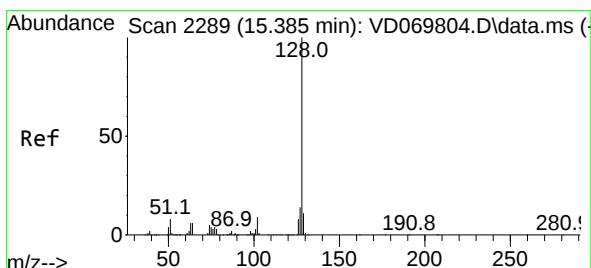
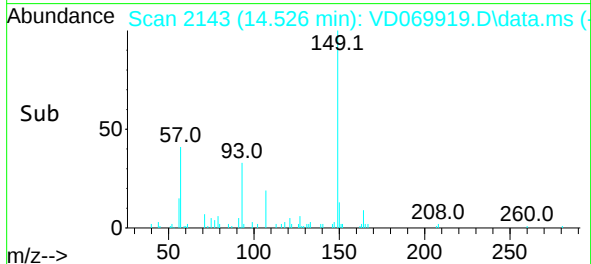
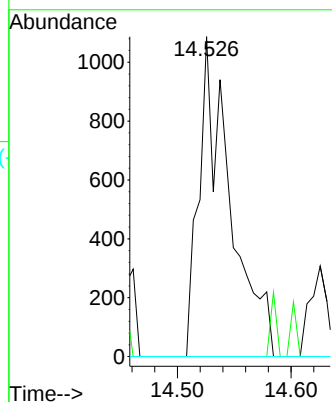
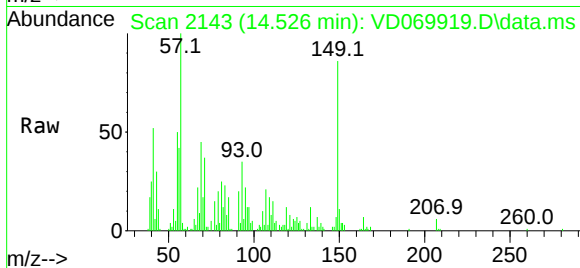




#92
1,2-Dibromo-3-Chloropropane
Concen: 2.299 ug/l
RT: 14.526 min Scan# 2143
Delta R.T. 0.029 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 2066
Ion Ratio Lower Upper
75 100
155 0.0 36.3 108.9#
157 0.0 47.0 141.0#



#95
Naphthalene
Concen: 5.261 ug/l
RT: 15.384 min Scan# 2289
Delta R.T. -0.001 min
Lab File: VD069919.D
Acq: 29 Jul 2021 18:52

Tgt Ion: 128 Resp: 4141
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 12.8#

