

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061621\
 Data File : VD069465.D
 Acq On : 16 Jun 2021 14:25
 Operator : VA/SY
 Sample : M2709-07
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 17 02:48:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D061121S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 11 12:50:13 2021
 Response via : Initial Calibration

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

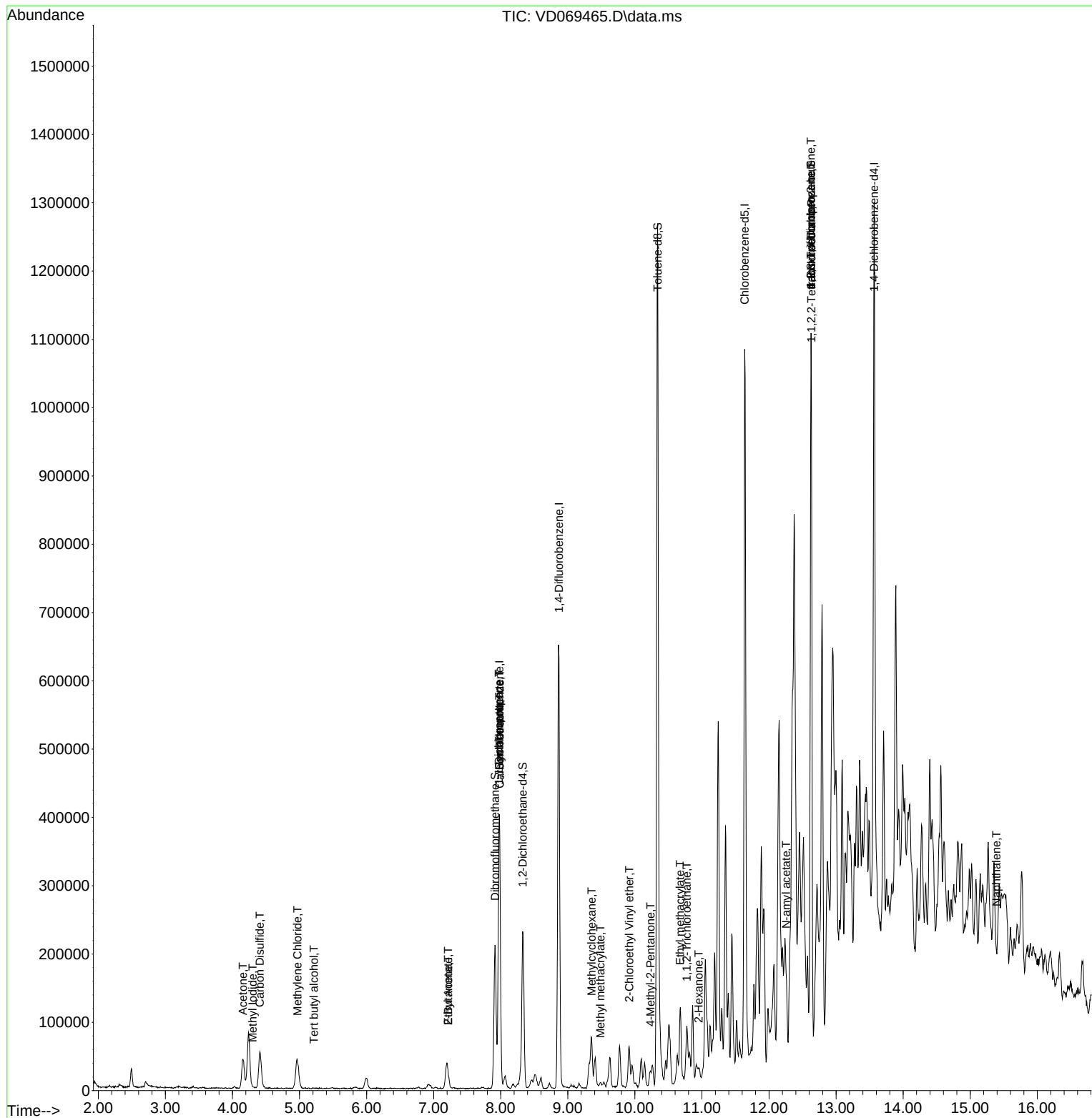
Internal Standards						
1) Pentafluorobenzene	7.979	168	301683	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	584979	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	646052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	301029	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	185068	54.376	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.760%			
35) Dibromofluoromethane	7.914	113	151912	34.671	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 69.340%			
50) Toluene-d8	10.338	98	787437	49.137	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 98.280%			
62) 4-Bromofluorobenzene	12.626	95	306405	59.590	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 119.180%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.774	94	182	Below Cal	#	29
10) Methyl Iodide	4.303	142	312	3.415	ug/l #	39
11) Tert butyl alcohol	5.215	59	604	3.414	ug/l #	73
16) Acetone	4.156	43	77868	138.223	ug/l	100
17) Carbon Disulfide	4.409	76	115904	11.199	ug/l	98
18) Methyl Acetate	4.709	43	75	Below Cal	#	46
20) Methylene Chloride	4.968	84	36071	2.256	ug/l	96
25) 2-Butanone	7.214	43	14209	20.227	ug/l	93
31) Cyclohexane	7.979	56	8543	1.847	ug/l #	41
36) 1,1-Dichloropropene	7.973	75	24197	3.972	ug/l #	48
37) Ethyl Acetate	7.214	43	14209	6.972	ug/l #	80
38) Carbon Tetrachloride	7.985	117	30227	4.581	ug/l #	16
39) Methylcyclohexane	9.356	83	21884	3.572	ug/l	88
48) Methyl methacrylate	9.485	41	1924	1.098	ug/l #	22
51) 4-Methyl-2-Pentanone	10.232	43	3288	1.672	ug/l #	77
55) 1,1,2-Trichloroethane	10.773	97	26249	7.658	ug/l #	23
56) Ethyl methacrylate	10.673	69	11216	5.527	ug/l #	8
58) 2-Chloroethyl Vinyl ether	9.914	63	78	11.978	ug/l #	44
59) 2-Hexanone	10.950	43	9089	6.926	ug/l #	36
74) N-amyl acetate	12.255	43	29804	7.850	ug/l #	23
75) 1,1,2,2-Tetrachloroethane	12.632	83	10829	2.665	ug/l	77
76) 1,2,3-Trichloropropane	12.626	75	145579	47.701	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	145579	127.253	ug/l #	21
95) Naphthalene	15.391	128	2189	3.766	ug/l #	69

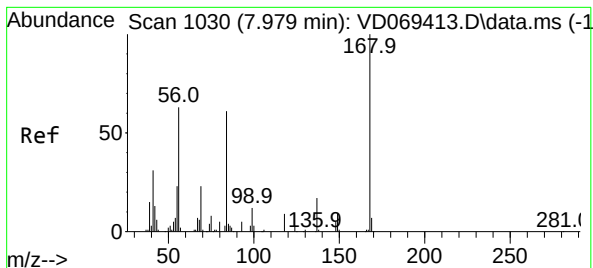
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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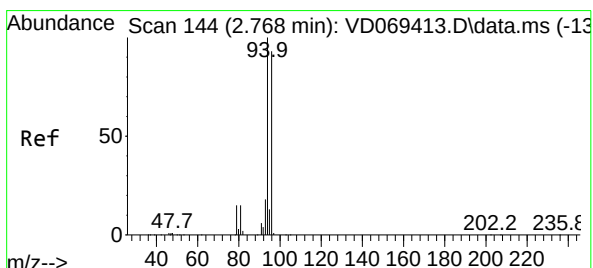
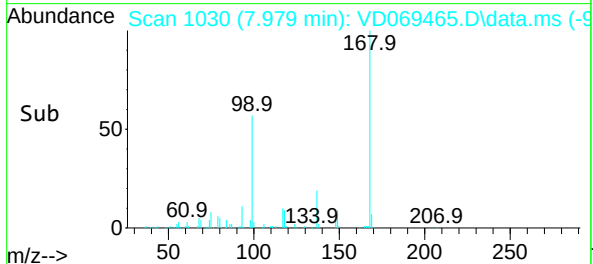
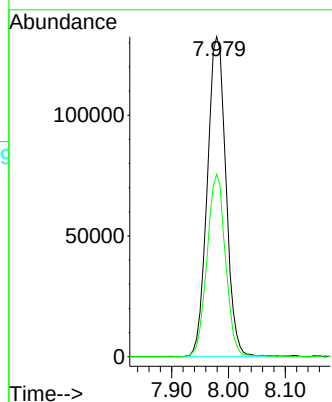
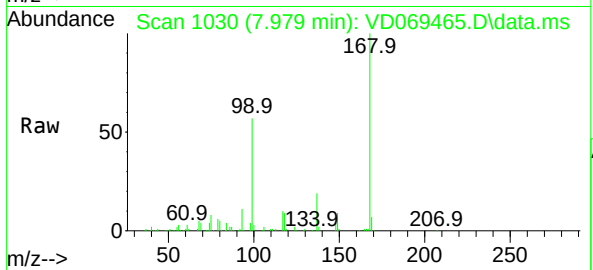




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

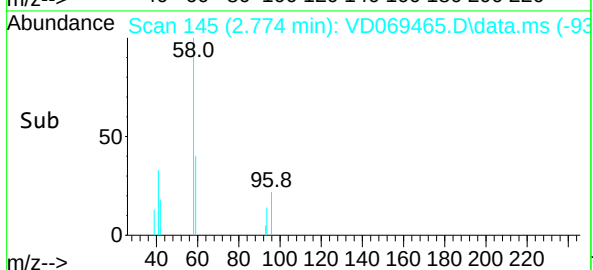
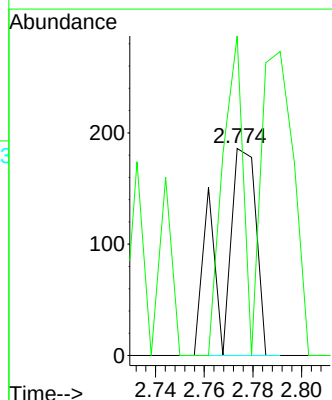
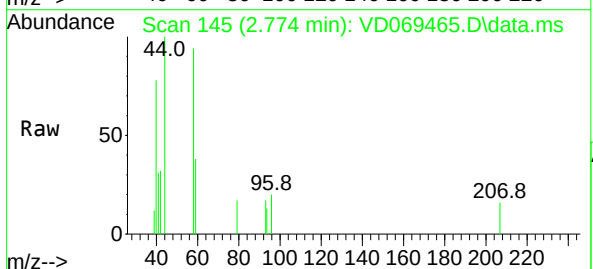
Instrument :
MSVOA_D
ClientSampleId :

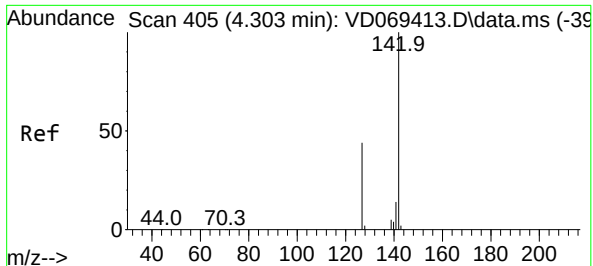
Tgt Ion:168 Resp: 301683
Ion Ratio Lower Upper
168 100
99 57.1 46.2 69.2



#5
Bromomethane
Concen: Below Cal
RT: 2.774 min Scan# 145
Delta R.T. 0.006 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 94 Resp: 182
Ion Ratio Lower Upper
94 100
96 154.3 70.3 105.5#

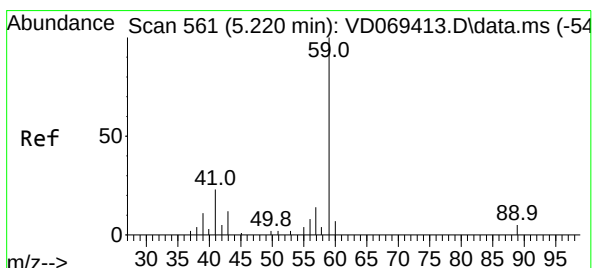
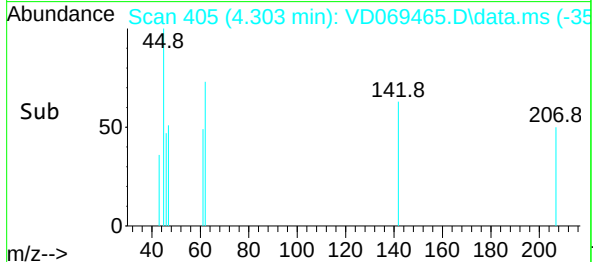
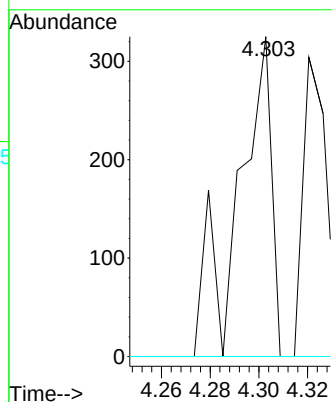
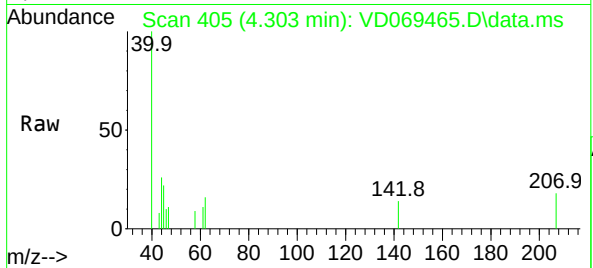




#10
Methyl Iodide
Concen: 3.415 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

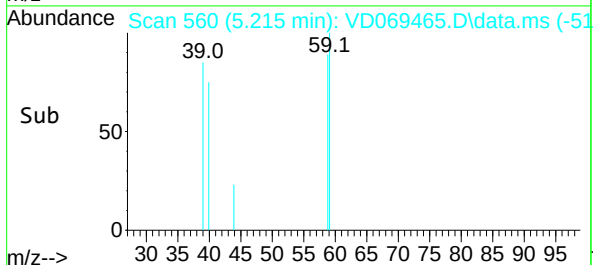
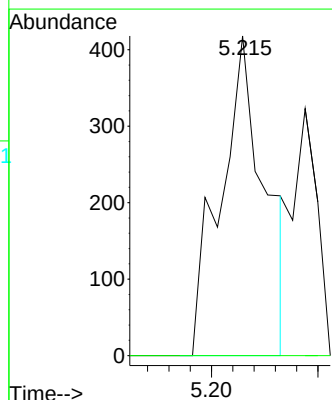
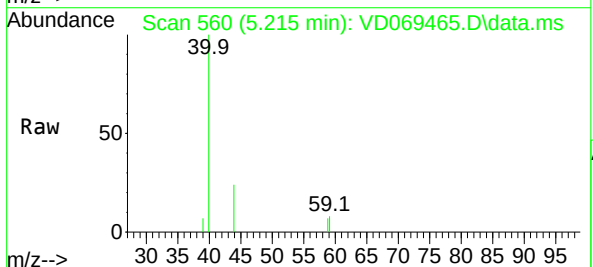
Instrument :
MSVOA_D
ClientSampled :

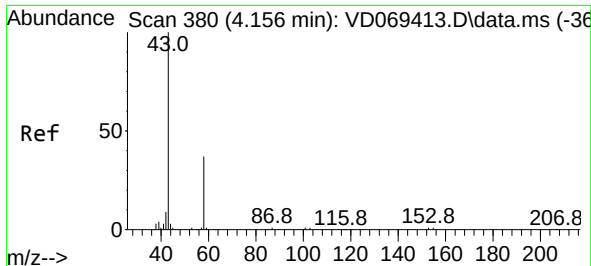
Tgt Ion:142 Resp: 312
Ion Ratio Lower Upper
142 100
127 0.0 36.2 54.2#
141 0.0 12.2 18.2#



#11
Tert butyl alcohol
Concen: 3.414 ug/l
RT: 5.215 min Scan# 560
Delta R.T. -0.005 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 59 Resp: 604
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

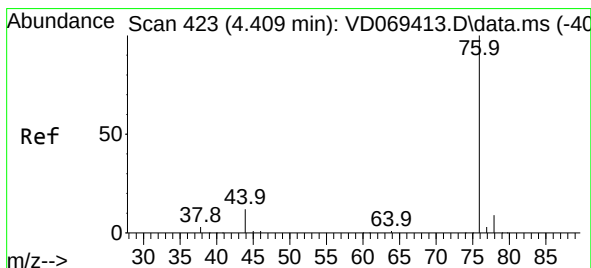
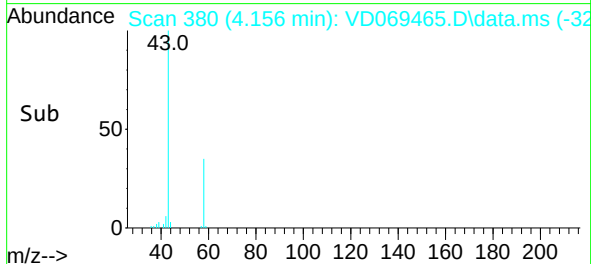
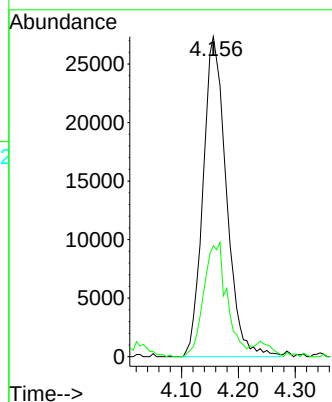
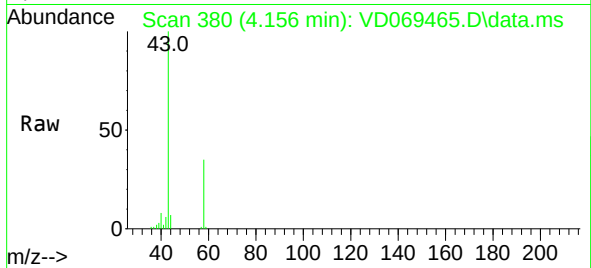




#16
Acetone
Concen: 138.223 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

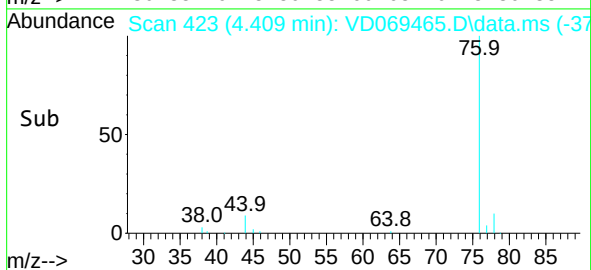
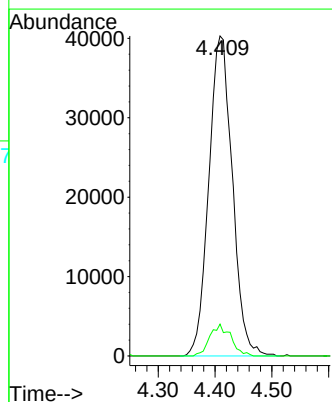
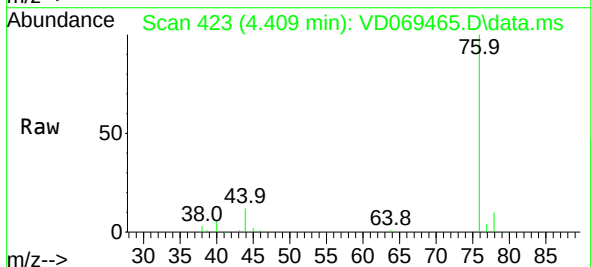
Instrument :
MSVOA_D
ClientSampled :

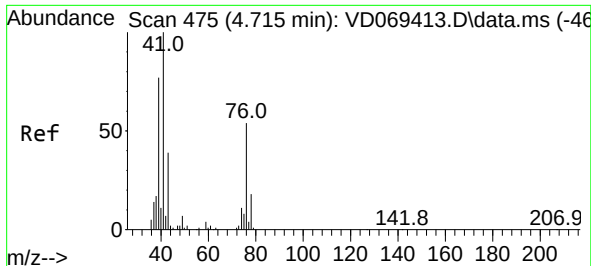
Tgt Ion: 43 Resp: 77868
Ion Ratio Lower Upper
43 100
58 34.6 27.5 41.3



#17
Carbon Disulfide
Concen: 11.199 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 76 Resp: 115904
Ion Ratio Lower Upper
76 100
78 9.9 7.4 11.0

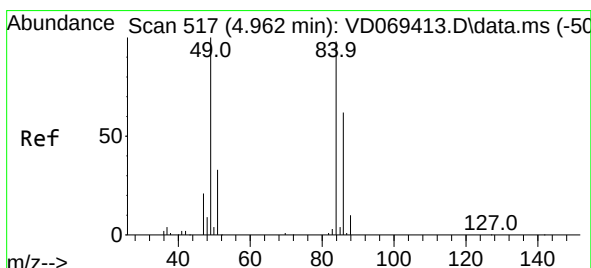
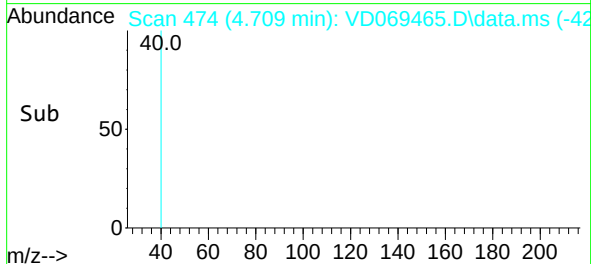
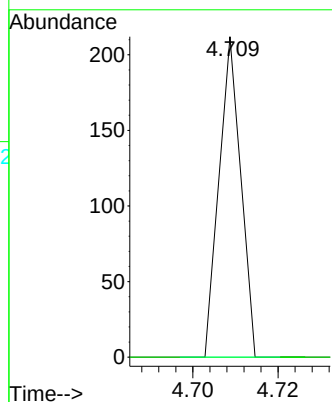
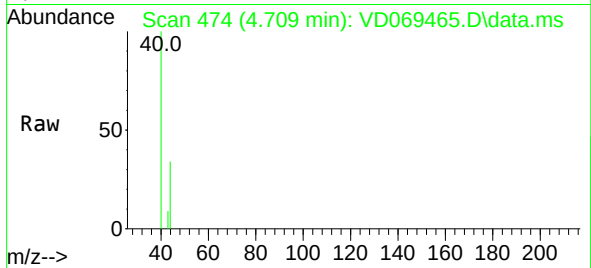




#18
Methyl Acetate
Concen: Below Cal
RT: 4.709 min Scan# 474
Delta R.T. -0.006 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

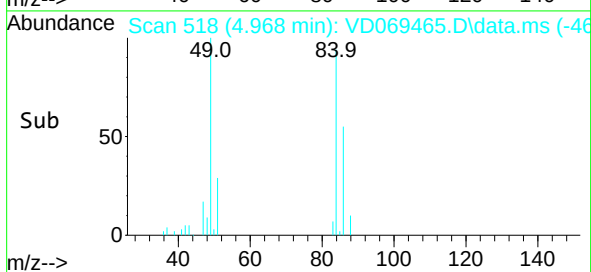
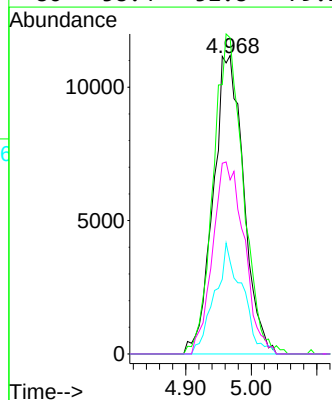
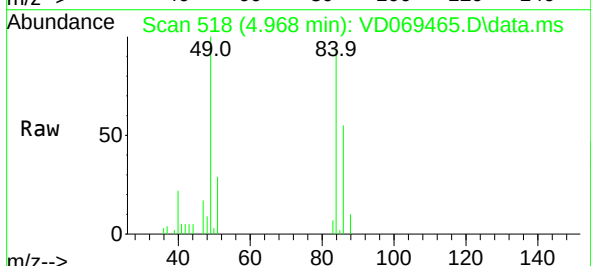
Instrument :
MSVOA_D
ClientSampled :

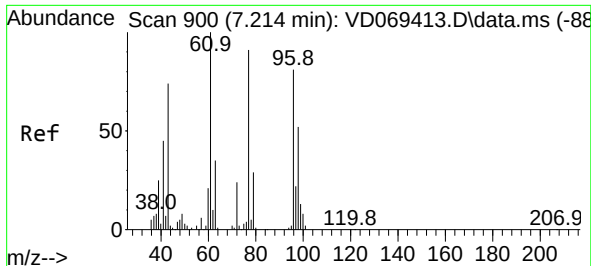
Tgt Ion: 43 Resp: 75
Ion Ratio Lower Upper
43 100
74 0.0 22.8 34.2#



#20
Methylene Chloride
Concen: 2.256 ug/l
RT: 4.968 min Scan# 518
Delta R.T. 0.006 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 84 Resp: 36071
Ion Ratio Lower Upper
84 100
49 105.9 83.7 125.5
51 30.9 26.4 39.6
86 58.4 52.8 79.2

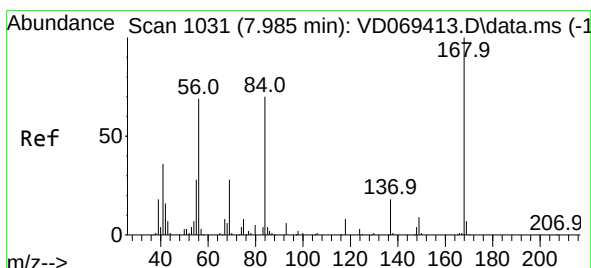
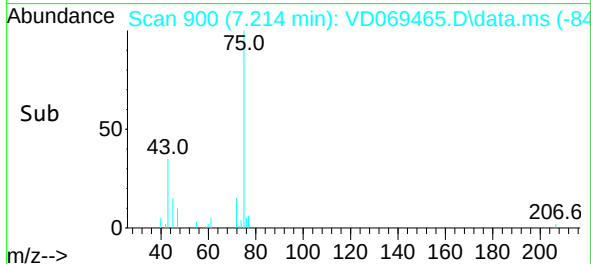
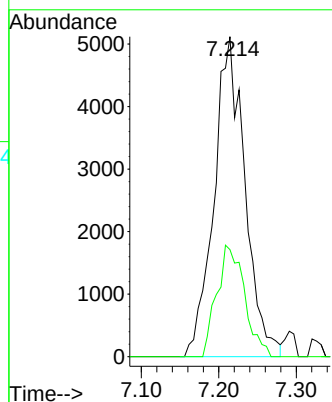
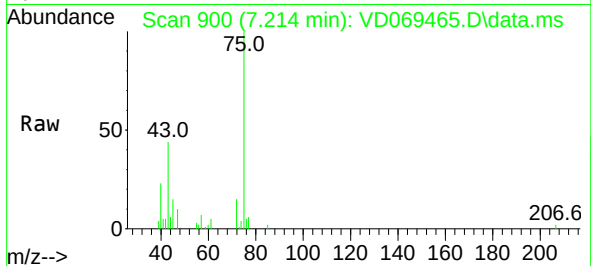




#25
2-Butanone
Concen: 20.227 ug/l
RT: 7.214 min Scan# 900
Delta R.T. 0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

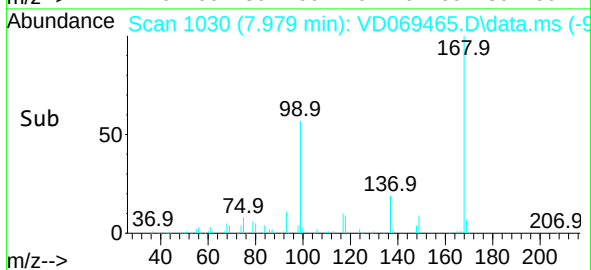
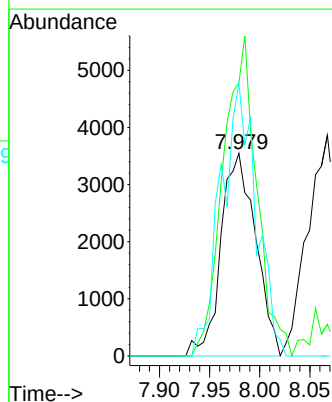
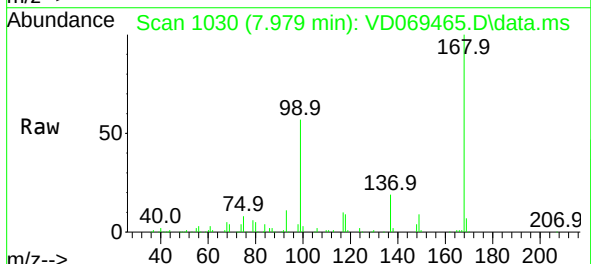
Instrument :
MSVOA_D
ClientSampled :

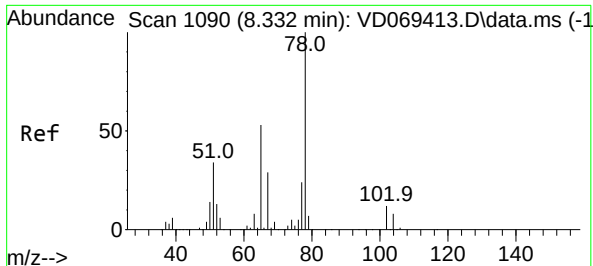
Tgt Ion: 43 Resp: 14209
Ion Ratio Lower Upper
43 100
72 33.4 23.9 35.9



#31
Cyclohexane
Concen: 1.847 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 56 Resp: 8543
Ion Ratio Lower Upper
56 100
69 127.1 29.0 43.4#
84 126.6 81.1 121.7#

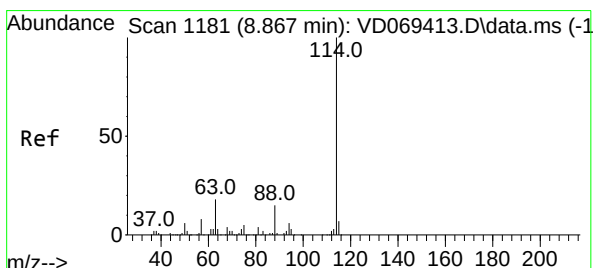
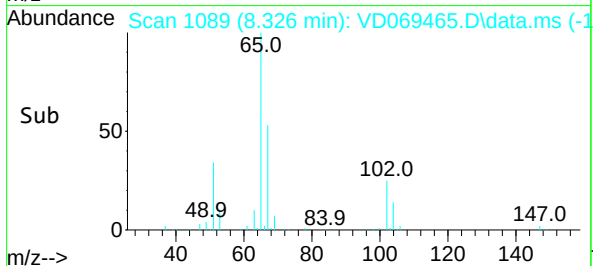
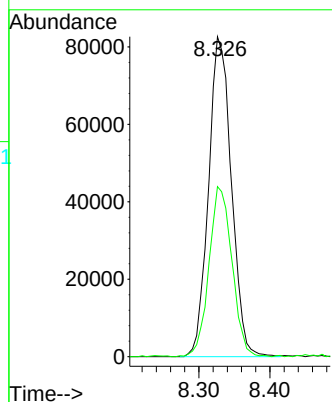
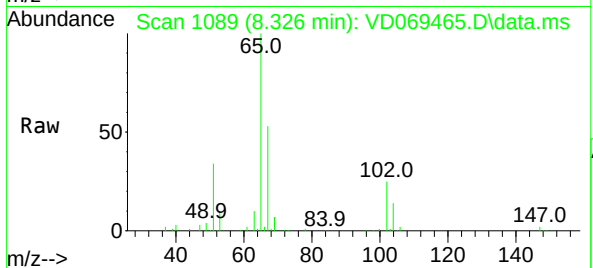




#33
1,2-Dichloroethane-d4
Concen: 54.376 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.006 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

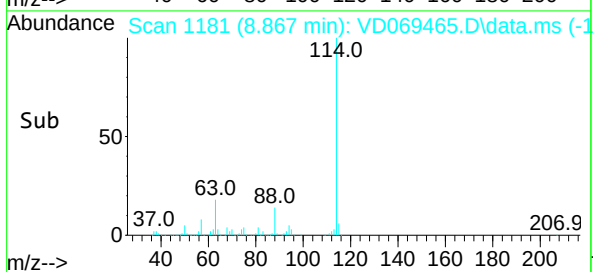
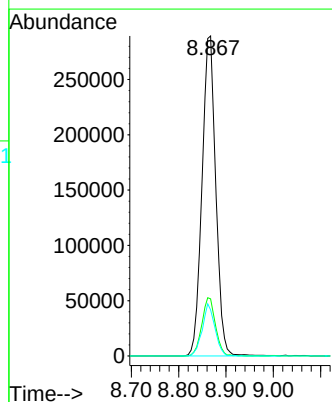
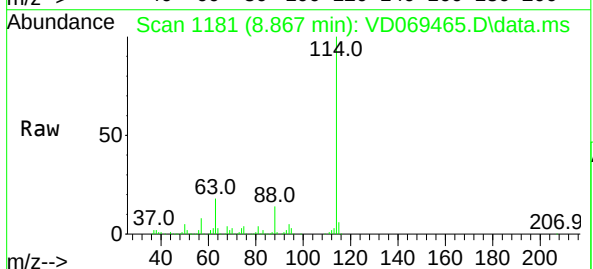
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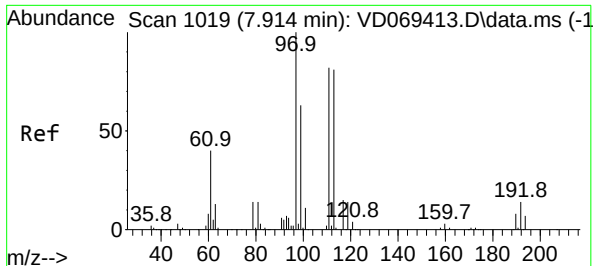
Tgt Ion: 65 Resp: 185068
Ion Ratio Lower Upper
65 100
67 53.4 0.0 105.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion:114 Resp: 584979
Ion Ratio Lower Upper
114 100
63 17.8 0.0 35.6
88 14.4 0.0 31.2

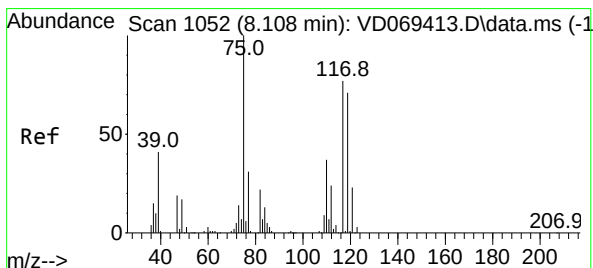
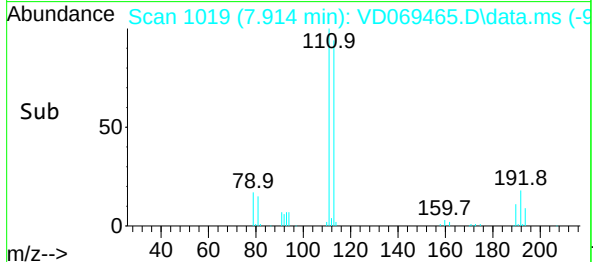
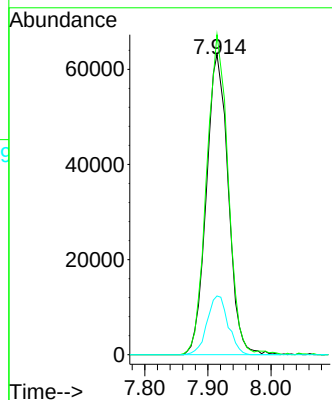
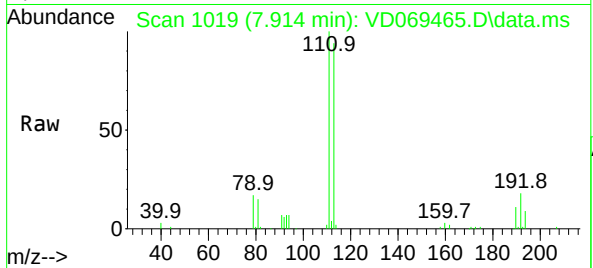




#35
Dibromofluoromethane
Concen: 34.671 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

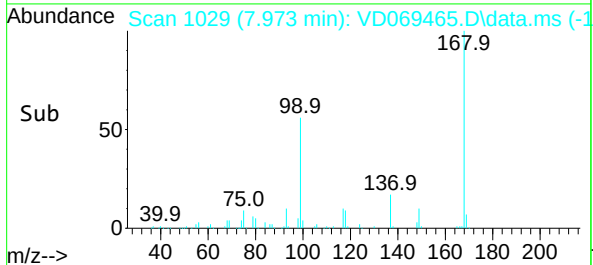
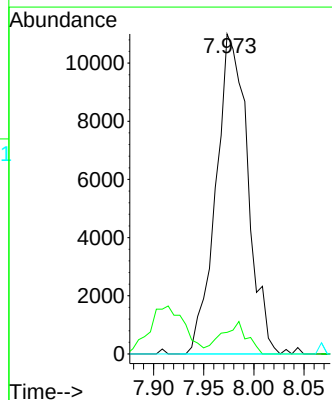
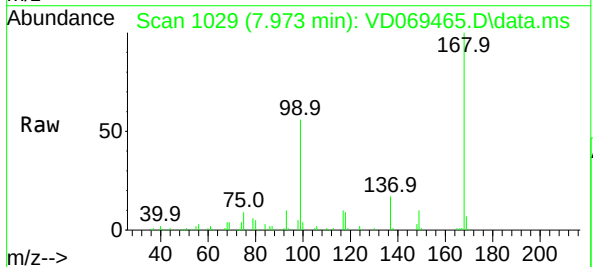
Instrument :
MSVOA_D
ClientSampleId :

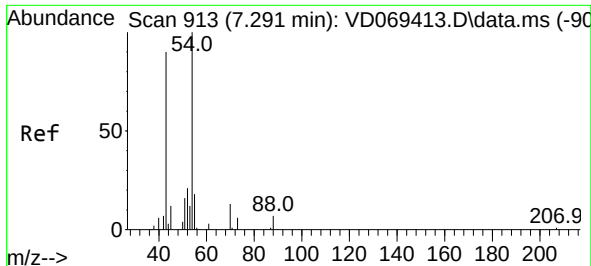
Tgt Ion:113 Resp: 151912
Ion Ratio Lower Upper
113 100
111 104.6 83.0 124.6
192 18.8 15.1 22.7



#36
1,1-Dichloropropene
Concen: 3.972 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 75 Resp: 24197
Ion Ratio Lower Upper
75 100
110 8.1 18.4 55.2#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 6.972 ug/l

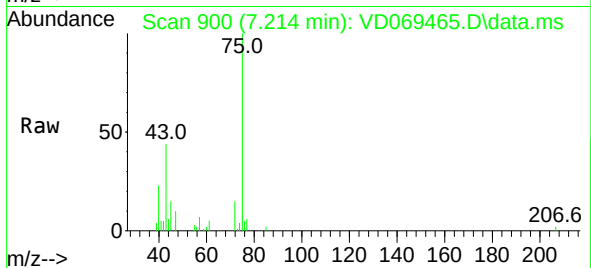
RT: 7.214 min Scan# 900

Delta R.T. -0.077 min

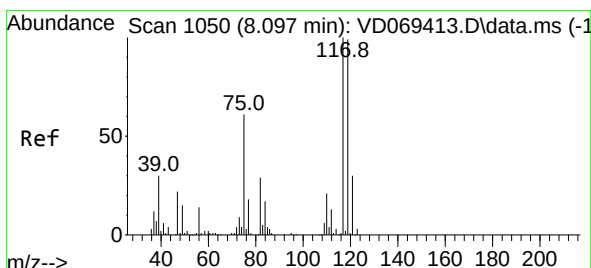
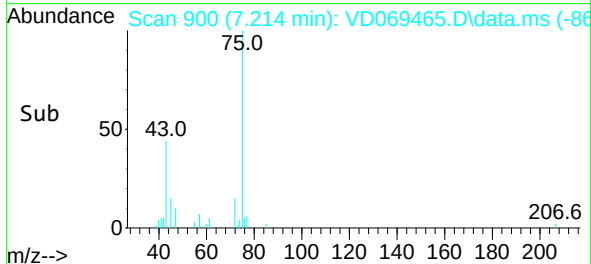
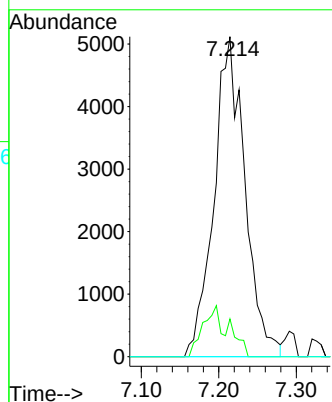
Lab File: VD069465.D

Acq: 16 Jun 2021 14:25

Instrument :
MSVOA_D
ClientSampled :



Tgt Ion: 43	Resp: 14209
Ion Ratio	Lower Upper
43 100	
61 9.4	11.0 16.6#
70 0.0	9.7 14.5#



#38

Carbon Tetrachloride

Concen: 4.581 ug/l

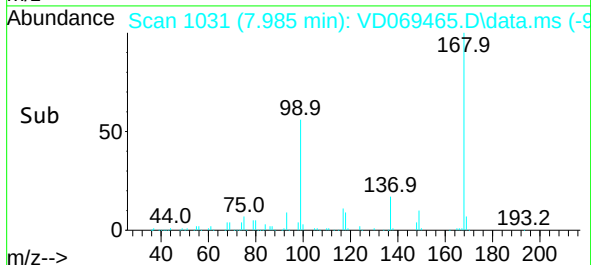
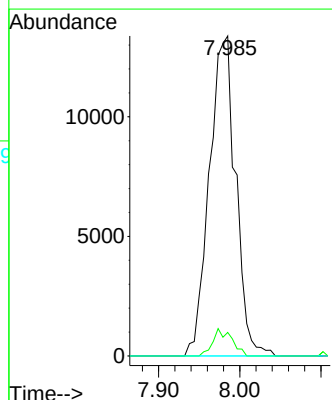
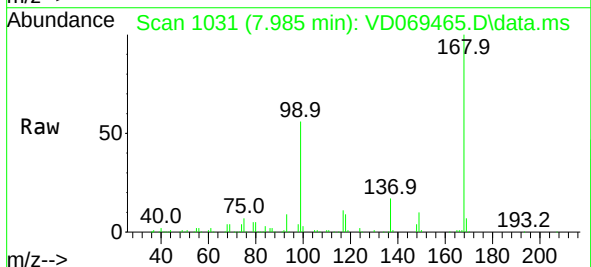
RT: 7.985 min Scan# 1031

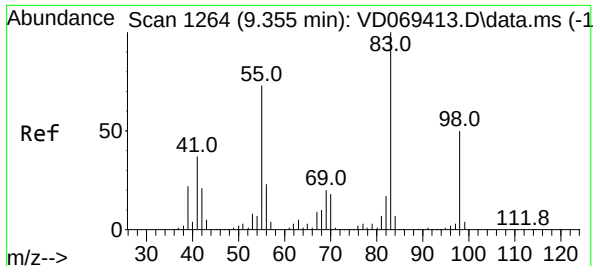
Delta R.T. -0.112 min

Lab File: VD069465.D

Acq: 16 Jun 2021 14:25

Tgt Ion: 117	Resp: 30227
Ion Ratio	Lower Upper
117 100	
119 7.3	79.4 119.2#
121 0.0	26.1 39.1#





#39

Methylcyclohexane

Concen: 3.572 ug/l

RT: 9.356 min Scan# 1264

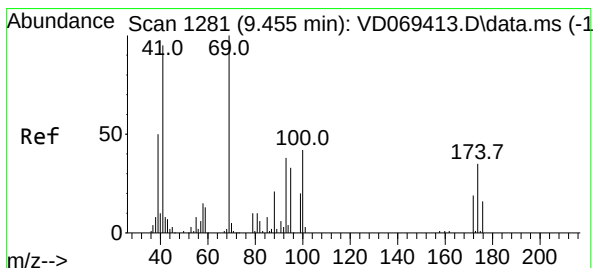
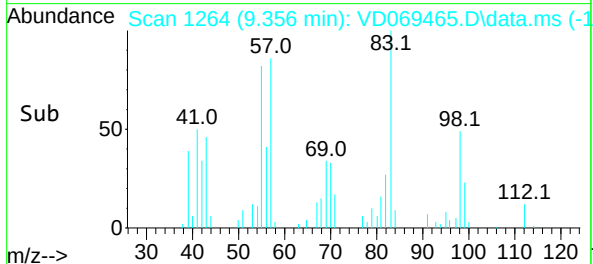
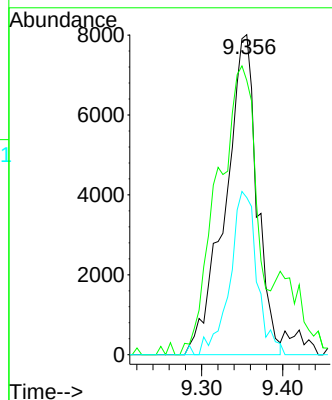
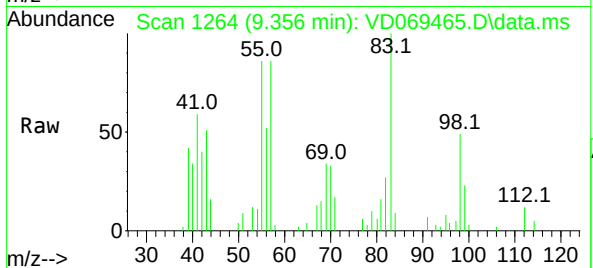
Delta R.T. 0.001 min

Lab File: VD069465.D

Acq: 16 Jun 2021 14:25

Tgt Ion: 83 Resp: 21884

Ion	Ratio	Lower	Upper
83	100		
55	85.7	57.4	86.2
98	49.1	42.2	63.2



#48

Methyl methacrylate

Concen: 1.098 ug/l

RT: 9.485 min Scan# 1286

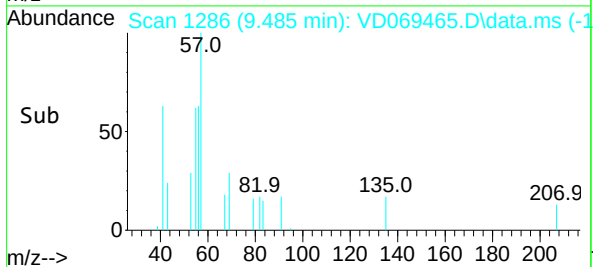
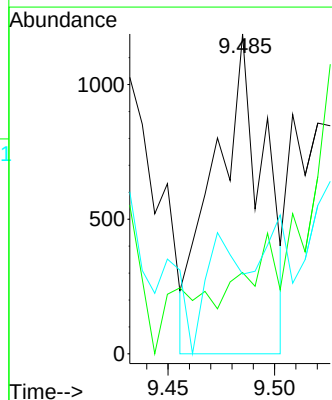
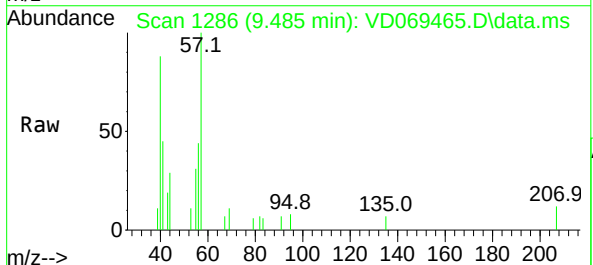
Delta R.T. 0.030 min

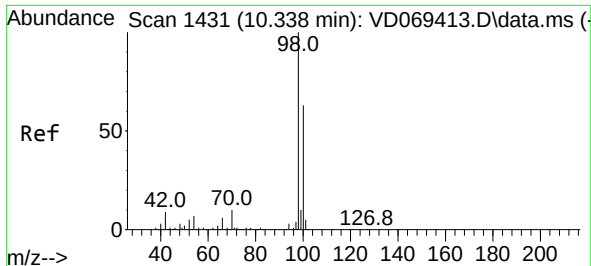
Lab File: VD069465.D

Acq: 16 Jun 2021 14:25

Tgt Ion: 41 Resp: 1924

Ion	Ratio	Lower	Upper
41	100		
69	0.0	77.6	116.4#
39	25.4	45.3	67.9#

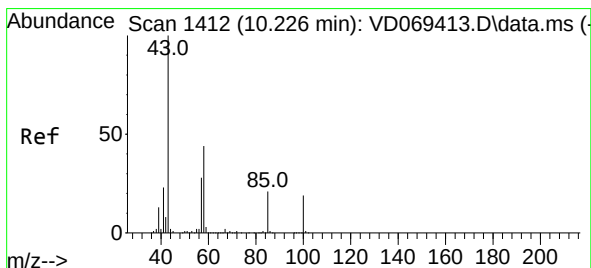
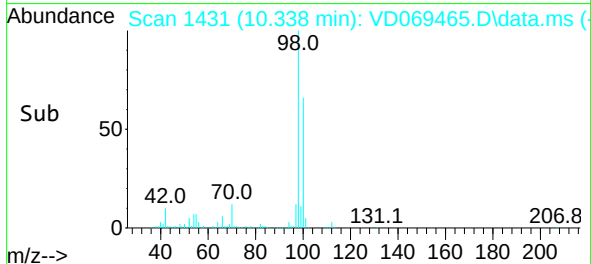
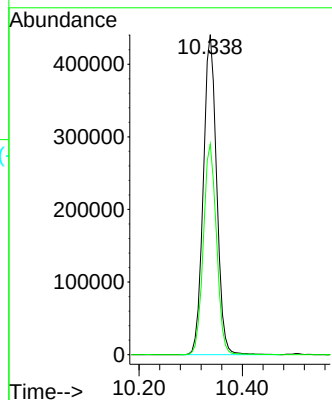
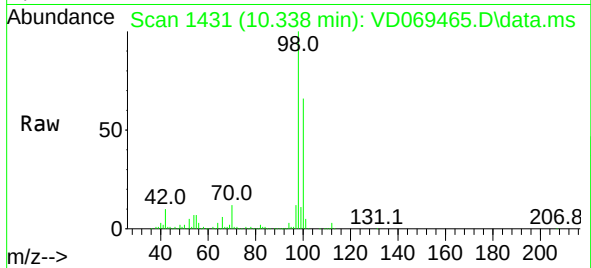




#50
Toluene-d8
Concen: 49.137 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

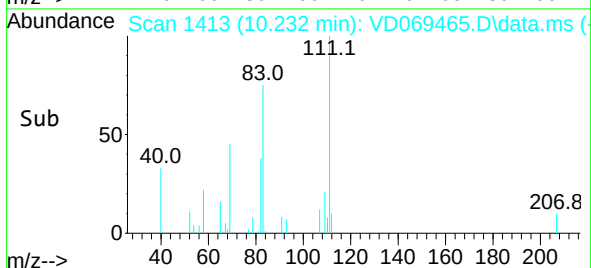
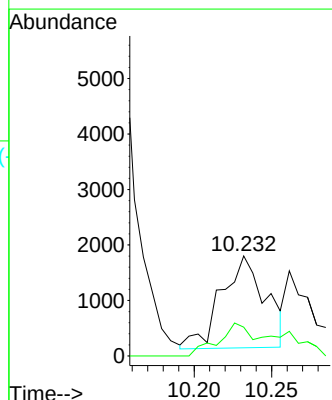
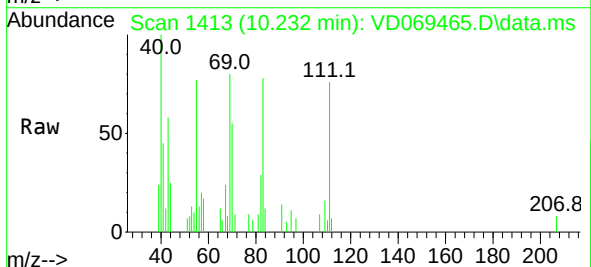
Instrument :
MSVOA_D
ClientSampled :

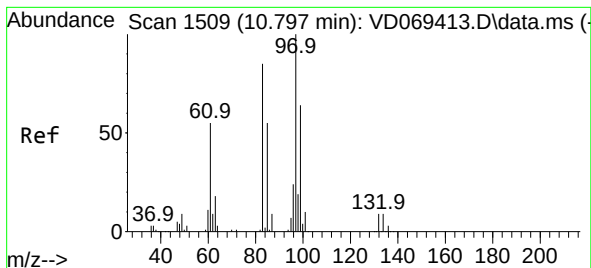
Tgt Ion: 98 Resp: 787437
Ion Ratio Lower Upper
98 100
100 65.0 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.672 ug/l
RT: 10.232 min Scan# 1413
Delta R.T. 0.006 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 43 Resp: 3288
Ion Ratio Lower Upper
43 100
58 28.8 35.1 52.7#

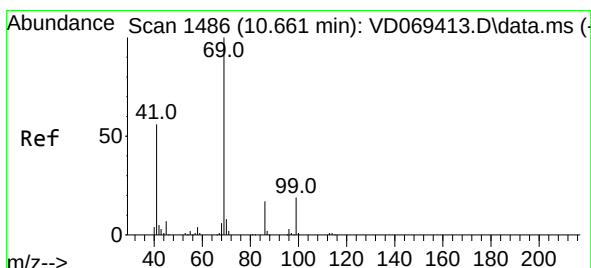
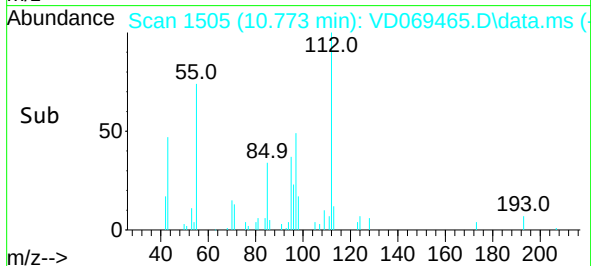
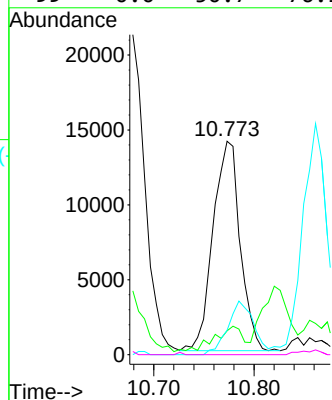
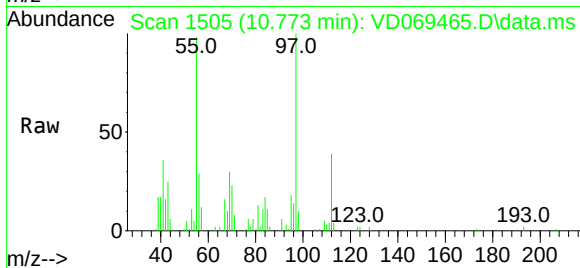




#55
1,1,2-Trichloroethane
Concen: 7.658 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.024 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

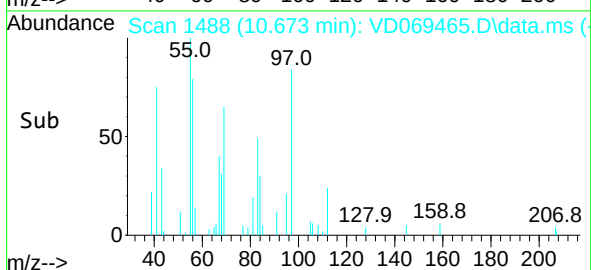
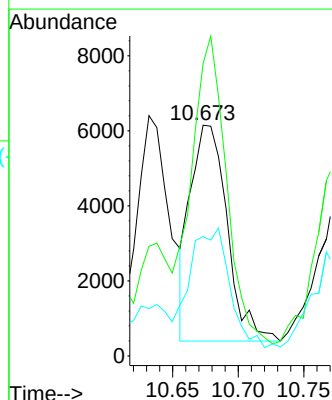
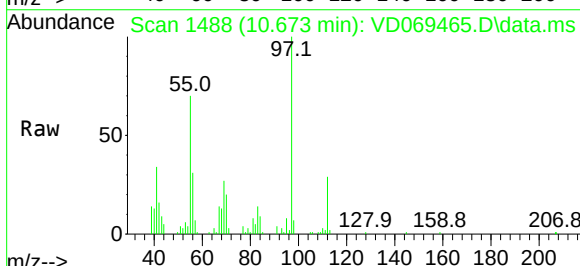
Instrument :
MSVOA_D
ClientSampled :

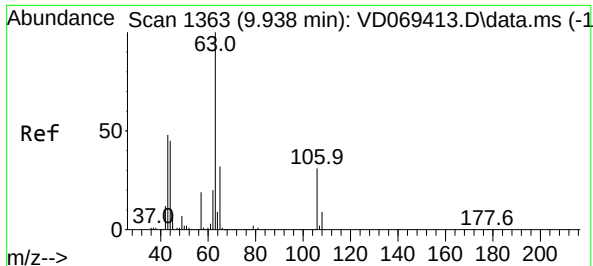
Tgt Ion:	97	Resp:	26249
Ion	Ratio	Lower	Upper
97	100		
83	8.9	69.4	104.0#
85	11.6	44.5	66.7#
99	0.0	50.7	76.1#



#56
Ethyl methacrylate
Concen: 5.527 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.012 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion:	69	Resp:	11216
Ion	Ratio	Lower	Upper
69	100		
41	135.6	45.4	68.2#
39	59.0	21.7	32.5#

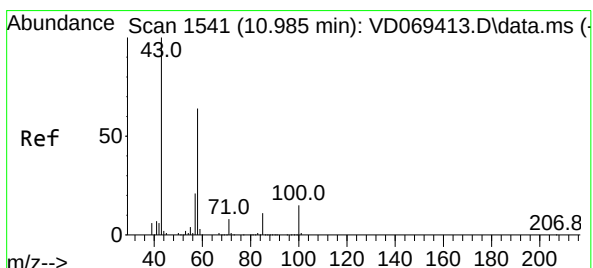
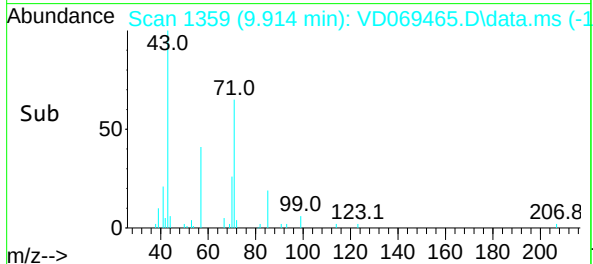
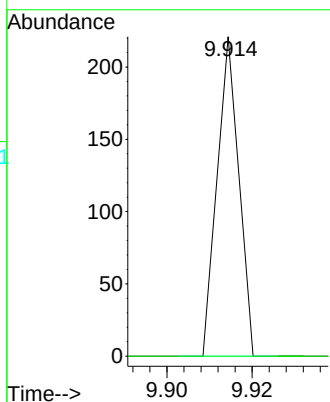
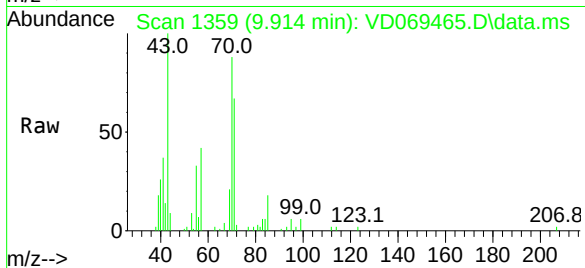




#58
2-Chloroethyl Vinyl ether
Concen: 11.978 ug/l
RT: 9.914 min Scan# 1359
Delta R.T. -0.024 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

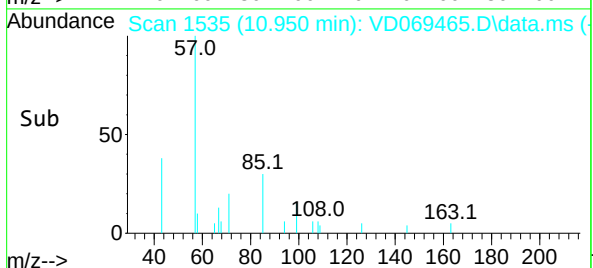
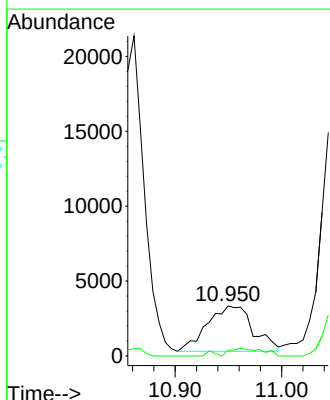
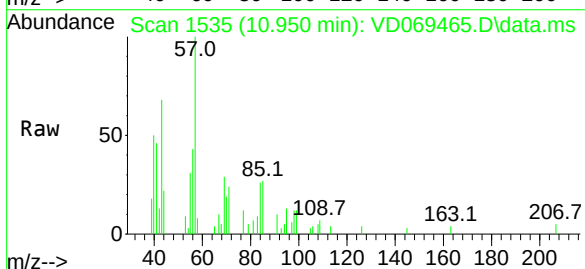
Instrument :
MSVOA_D
ClientSampled :

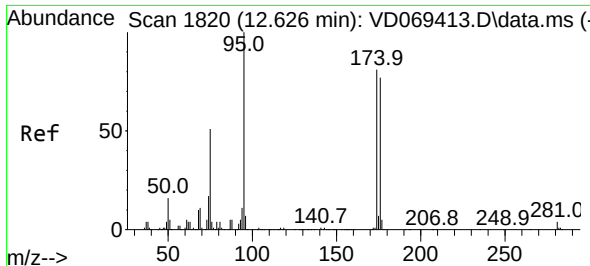
Tgt Ion: 63 Resp: 78
Ion Ratio Lower Upper
63 100
106 0.0 24.8 37.2#



#59
2-Hexanone
Concen: 6.926 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.035 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 43 Resp: 9089
Ion Ratio Lower Upper
43 100
58 12.2 30.8 92.3#

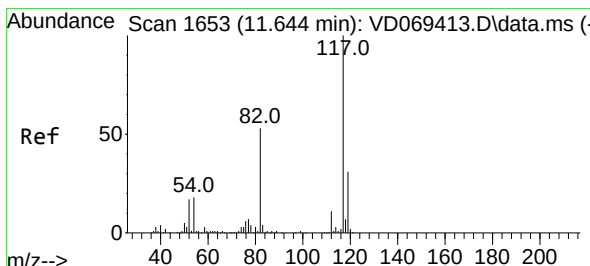
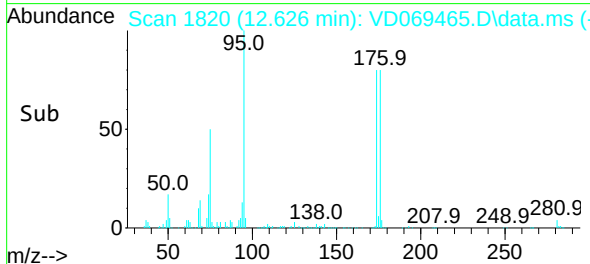
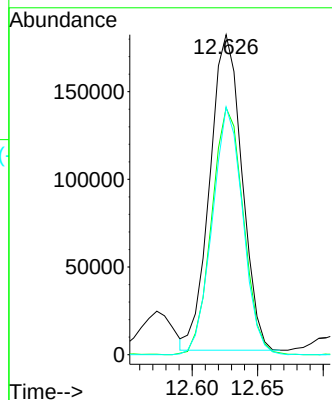
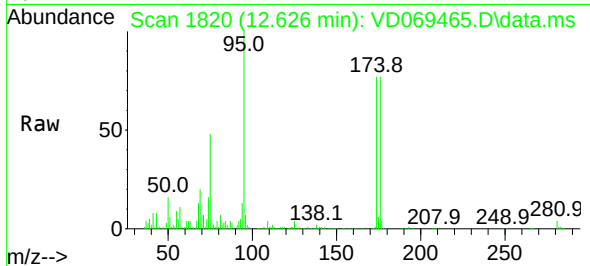




#62
4-Bromofluorobenzene
Concen: 59.590 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

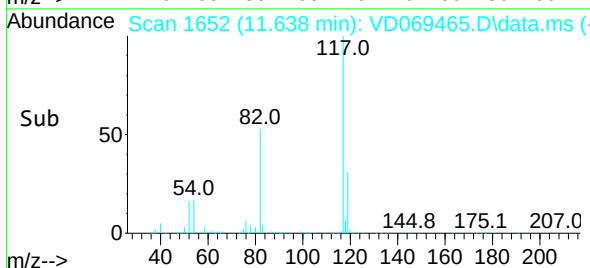
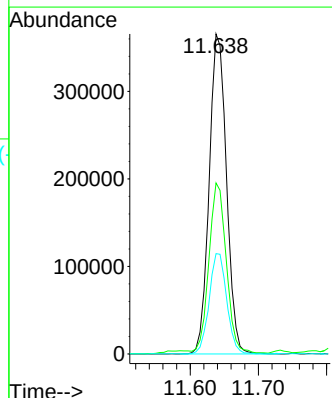
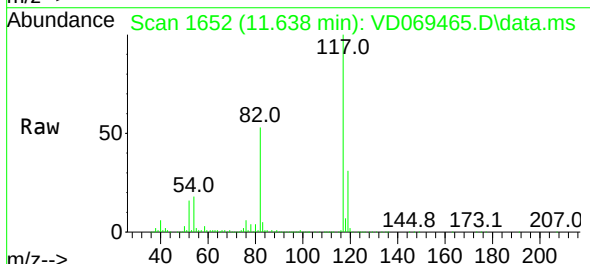
Instrument :
MSVOA_D
ClientSampleId :

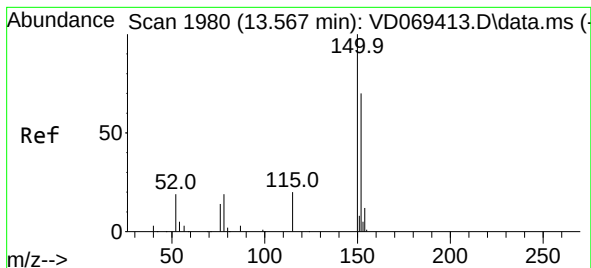
Tgt Ion: 95 Resp: 306405
Ion Ratio Lower Upper
95 100
174 77.4 0.0 162.8
176 74.5 0.0 154.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.006 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 117 Resp: 646052
Ion Ratio Lower Upper
117 100
82 52.4 43.3 64.9
119 31.3 25.3 37.9

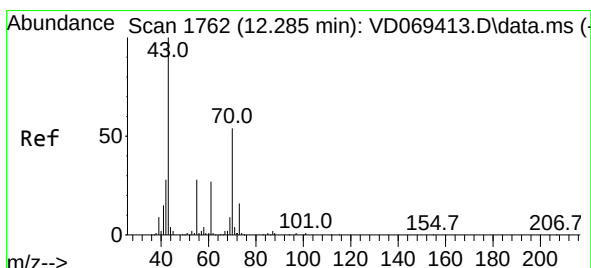
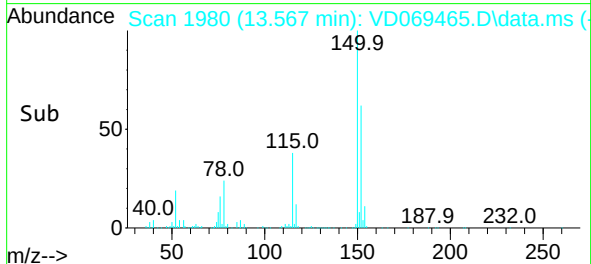
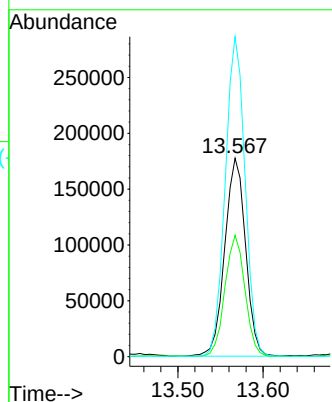
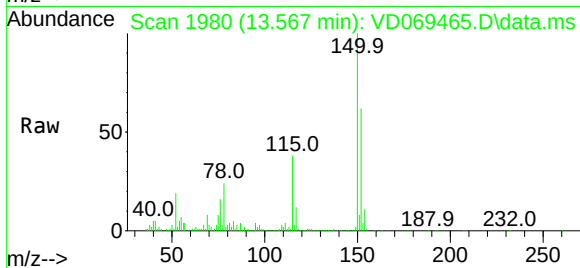




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

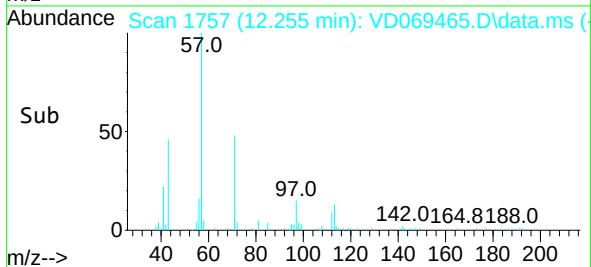
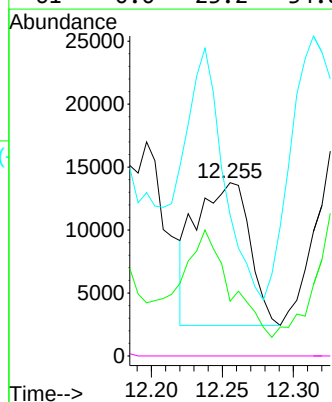
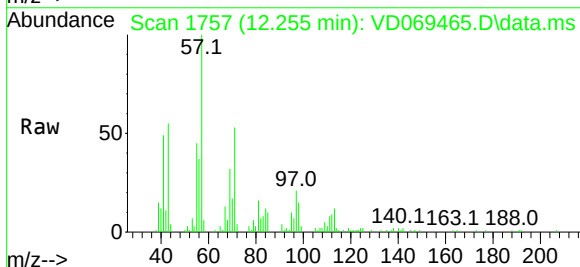
Instrument :
MSVOA_D
ClientSampled :

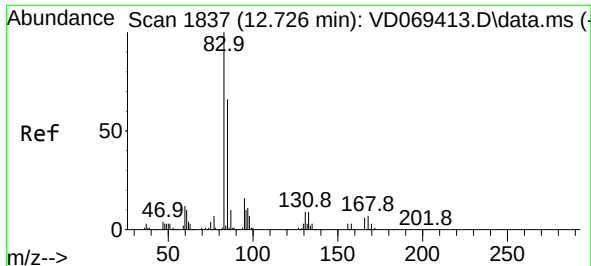
Tgt Ion:152 Resp: 301029
Ion Ratio Lower Upper
152 100
115 58.6 29.4 88.3
150 153.6 0.0 355.0



#74
N-ethyl acetate
Concen: 7.850 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.030 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 43 Resp: 29804
Ion Ratio Lower Upper
43 100
70 67.8 40.9 61.3#
55 132.2 23.4 35.0#
61 0.0 23.2 34.8#

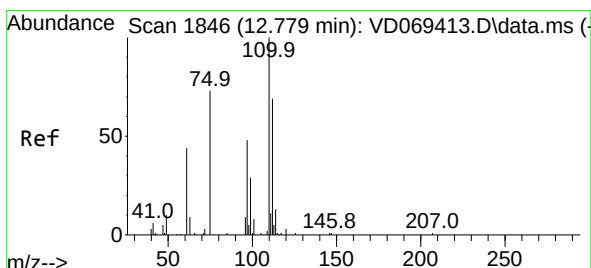
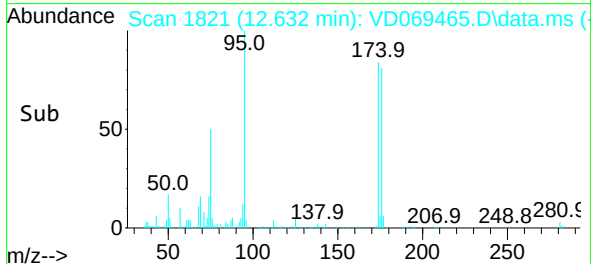
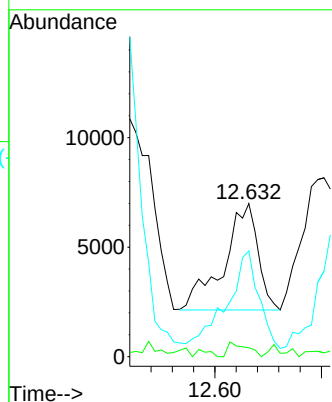
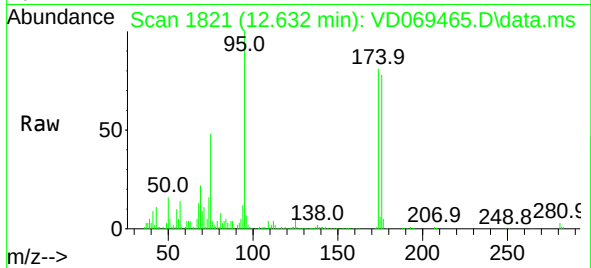




#75
1,1,2,2-Tetrachloroethane
Concen: 2.665 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.094 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

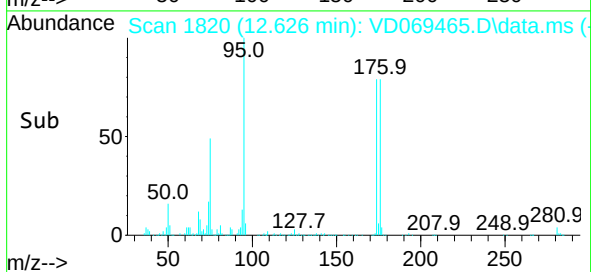
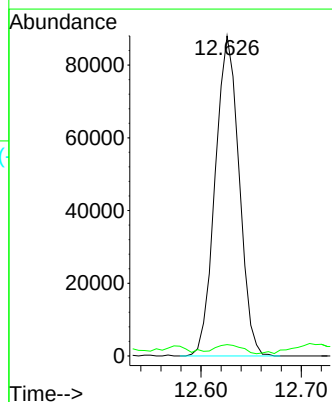
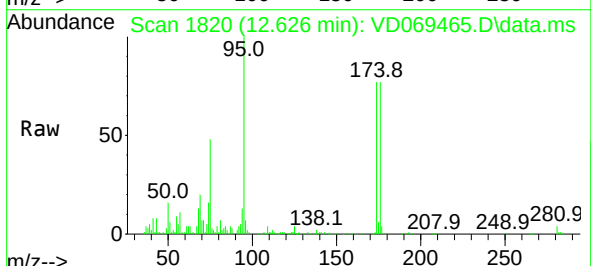
Instrument :
MSVOA_D
ClientSampleId :

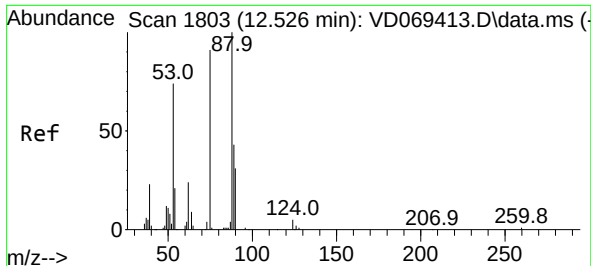
Tgt Ion: 83 Resp: 10829
Ion Ratio Lower Upper
83 100
131 7.6 5.3 16.1
85 85.6 32.6 98.0



#76
1,2,3-Trichloropropane
Concen: 47.701 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.153 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion: 75 Resp: 145579
Ion Ratio Lower Upper
75 100
77 3.1 183.8 551.2#

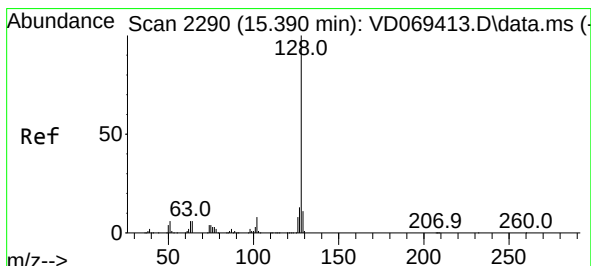
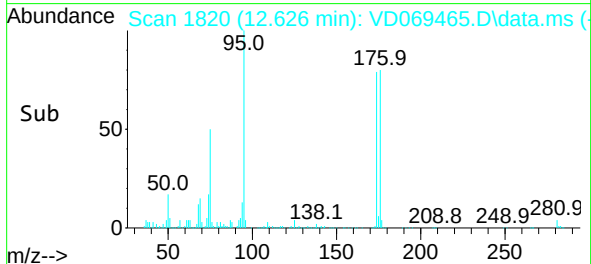
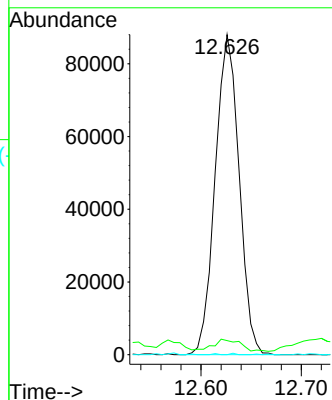
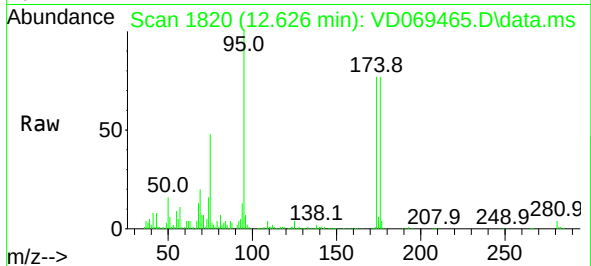




#81
trans-1,4-Dichloro-2-butene
Concen: 127.253 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.100 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion: 75 Resp: 145579
Ion Ratio Lower Upper
75 100
53 4.3 62.6 94.0#
89 0.1 35.6 53.4#



#95
Naphthalene
Concen: 3.766 ug/l
RT: 15.391 min Scan# 2290
Delta R.T. 0.001 min
Lab File: VD069465.D
Acq: 16 Jun 2021 14:25

Tgt Ion:128 Resp: 2189
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.8 13.2#

