

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060221\
 Data File : VD069303.D
 Acq On : 02 Jun 2021 16:01
 Operator : VA/SY
 Sample : M2580-04
 Misc : 8.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 03 01:09:27 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060121S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 02 02:17:36 2021
 Response via : Initial Calibration

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

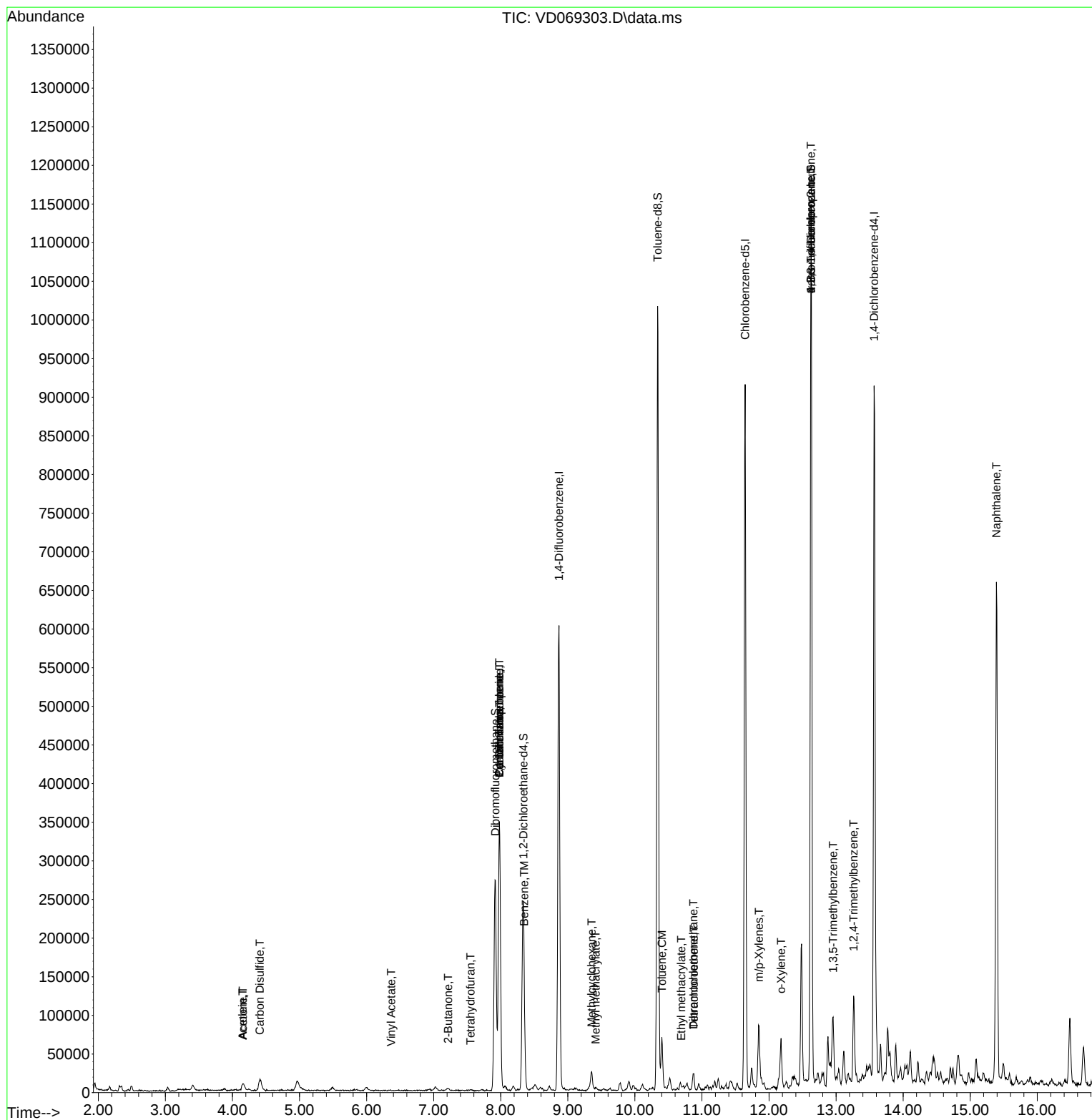
Internal Standards						
1) Pentafluorobenzene	7.979	168	255209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	537654	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	549175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	252537	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.338	65	188139	76.83	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 153.66%			
35) Dibromofluoromethane	7.920	113	202175	59.88	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 119.76%			
50) Toluene-d8	10.338	98	700023	57.02	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 114.04%			
62) 4-Bromofluorobenzene	12.626	95	251126	62.42	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 124.84%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.215	59	81	Below Cal	#	73
13) Acrolein	4.150	56	215	18.37	ug/l #	16
16) Acetone	4.156	43	15609	36.53	ug/l #	79
17) Carbon Disulfide	4.409	76	30840	3.64	ug/l	96
20) Methylene Chloride	4.962	84	8674	Below Cal		88
23) Vinyl Acetate	6.367	43	129	11.64	ug/l #	67
25) 2-Butanone	7.214	43	3054	5.43	ug/l	93
29) Tetrahydrofuran	7.550	42	402	1.24	ug/l #	74
31) Cyclohexane	7.979	56	8789	2.26	ug/l #	31
36) 1,1-Dichloropropene	7.979	75	20925	4.00	ug/l #	49
38) Carbon Tetrachloride	7.979	117	26336	4.67	ug/l #	14
39) Methylcyclohexane	9.355	83	8963	1.68	ug/l	91
40) Benzene	8.350	78	42950	2.83	ug/l	96
48) Methyl methacrylate	9.414	41	1694	1.13	ug/l #	18
52) Toluene	10.402	92	27459	2.87	ug/l	99
56) Ethyl methacrylate	10.691	69	806	2.87	ug/l #	1
60) Dibromochloromethane	10.873	129	4568	1.27	ug/l #	10
64) Tetrachloroethene	10.879	164	5116	1.34	ug/l #	71
68) m/p-Xylenes	11.849	106	22136	2.93	ug/l	96
69) o-Xylene	12.179	106	16787	2.51	ug/l	93
76) 1,2,3-Trichloropropane	12.626	75	123920	56.48	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.955	105	31484	2.15	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.626	75	123920	125.16	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.261	105	67328	4.63	ug/l	100
95) Naphthalene	15.390	128	595008	67.79	ug/l	100

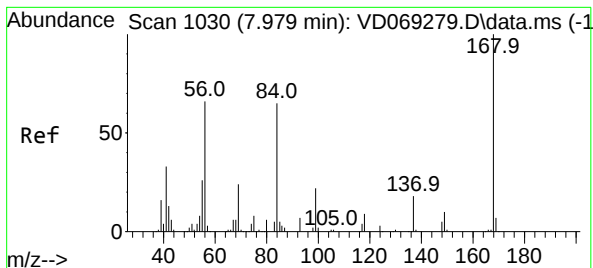
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 03 01:09:27 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060121S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 02 02:17:36 2021
Response via : Initial Calibration

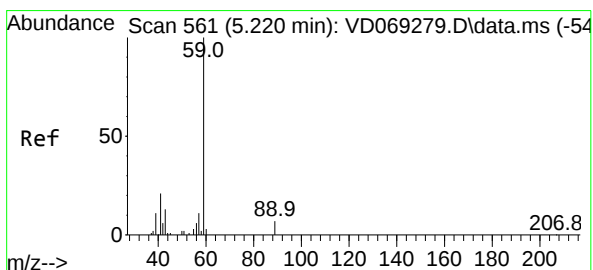
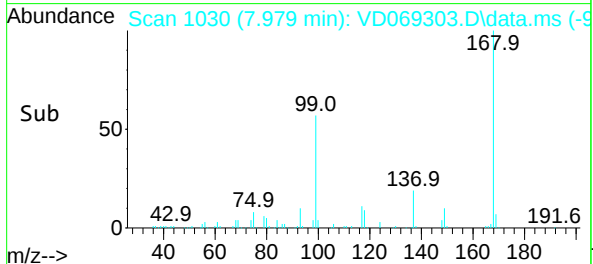
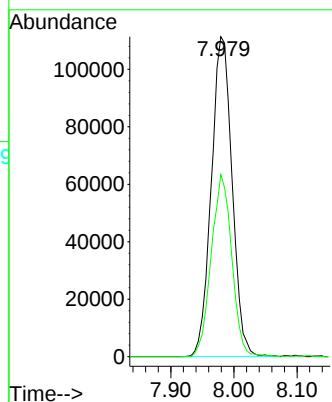
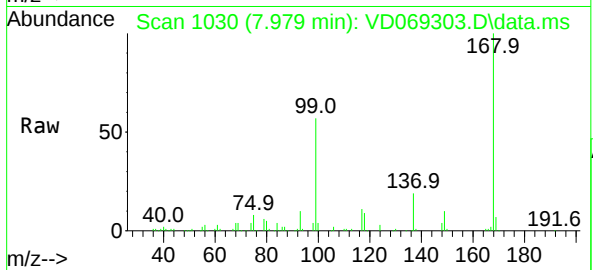




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

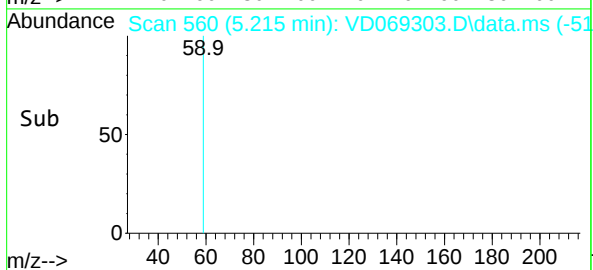
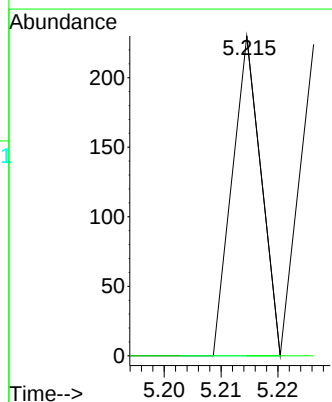
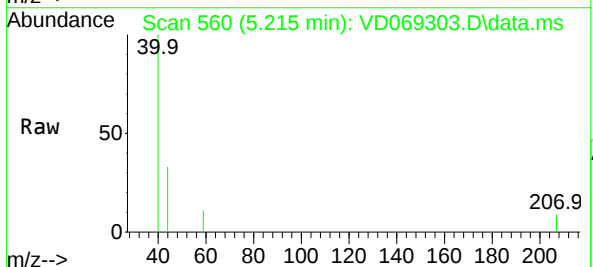
Instrument :
MSVOA_D
ClientSampled :

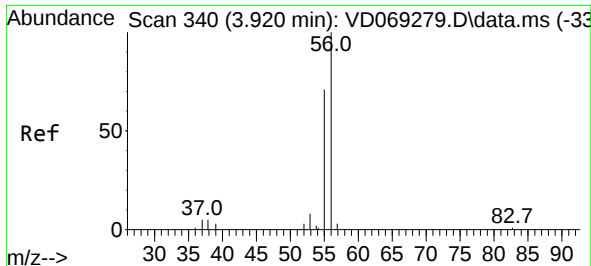
Tgt Ion:168 Resp: 255209
Ion Ratio Lower Upper
168 100
99 56.9 46.2 69.2



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.215 min Scan# 560
Delta R.T. -0.005 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Tgt Ion: 59 Resp: 81
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

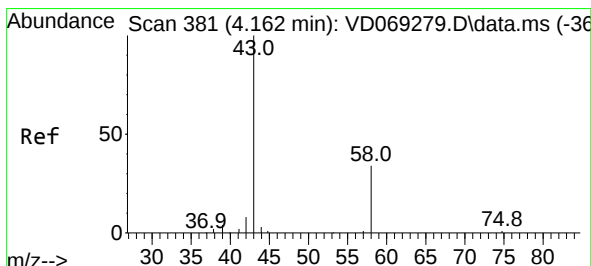
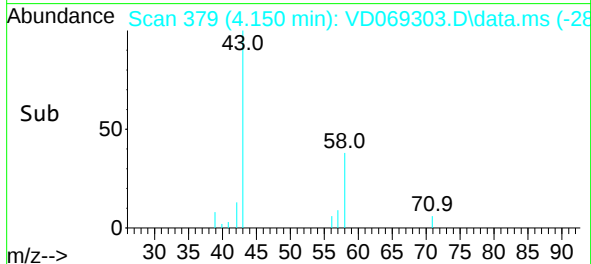
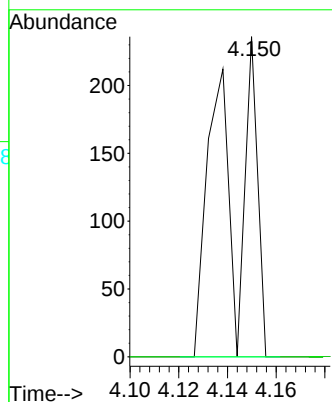
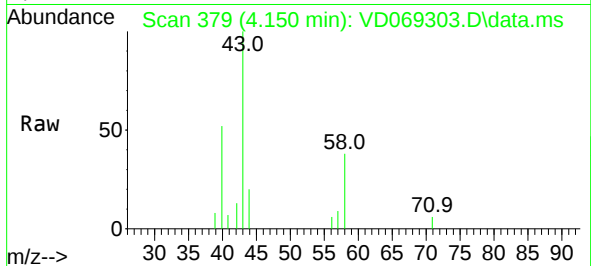




#13
Acrolein
Concen: 18.37 ug/l
RT: 4.150 min Scan# 379
Delta R.T. 0.230 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

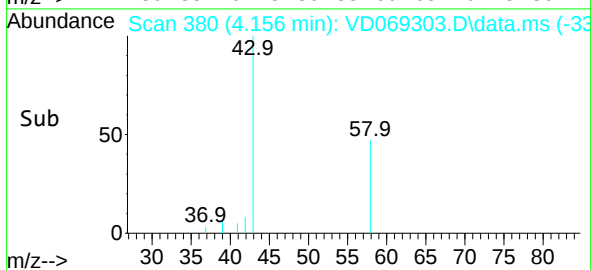
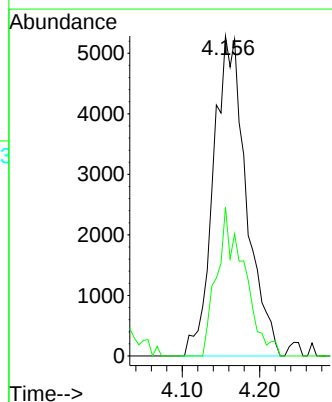
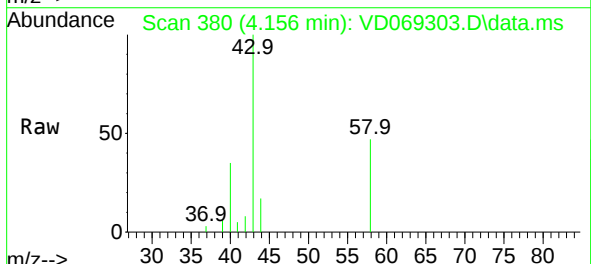
Instrument :
MSVOA_D
ClientSampled :

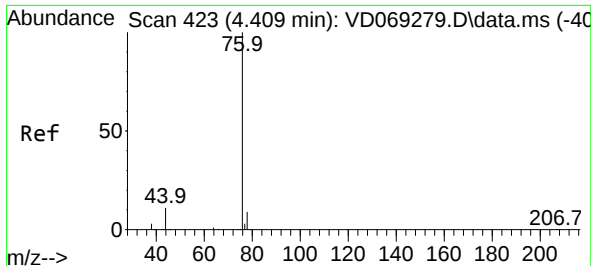
Tgt Ion: 56 Resp: 215
Ion Ratio Lower Upper
56 100
55 0.0 53.8 80.8#



#16
Acetone
Concen: 36.53 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

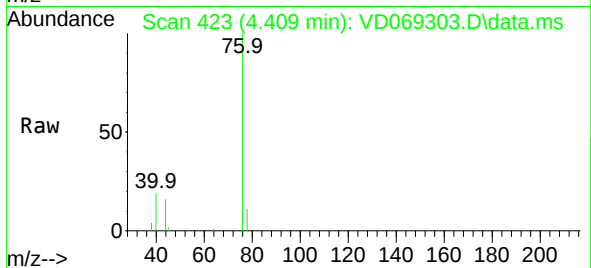
Tgt Ion: 43 Resp: 15609
Ion Ratio Lower Upper
43 100
58 46.6 27.5 41.3#



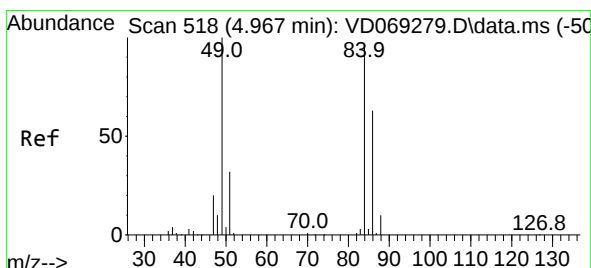
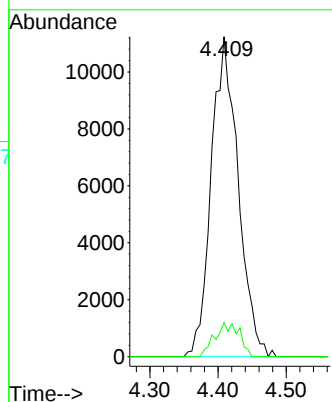
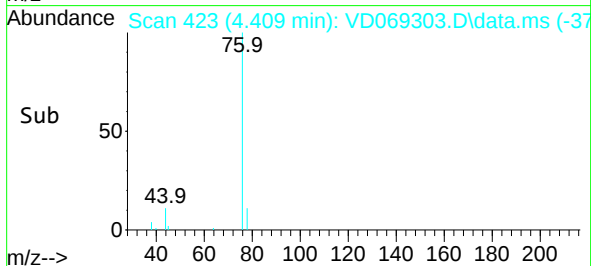


#17
Carbon Disulfide
Concen: 3.64 ug/l
RT: 4.409 min Scan# 423
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

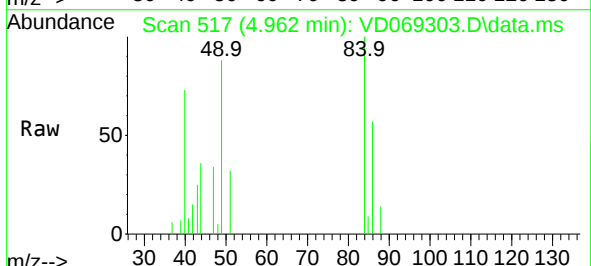
Instrument :
MSVOA_D
ClientSampled :



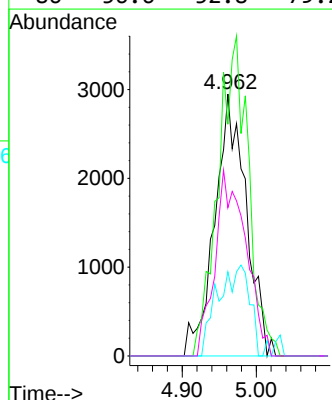
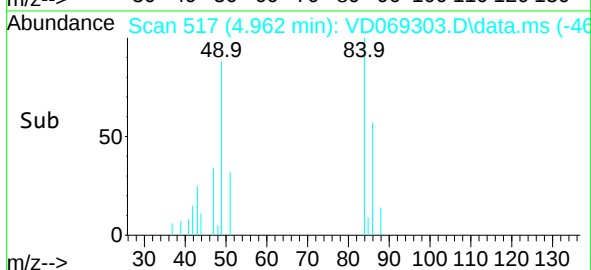
Tgt Ion: 76 Resp: 30840
Ion Ratio Lower Upper
76 100
78 10.7 7.4 11.0

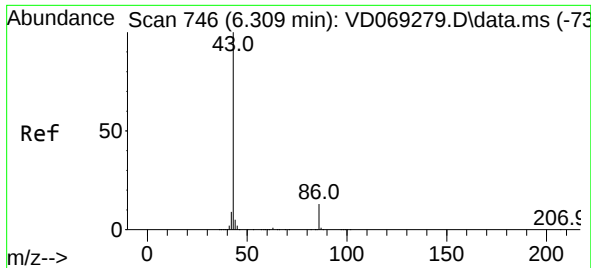


#20
Methylene Chloride
Concen: Below Cal
RT: 4.962 min Scan# 517
Delta R.T. -0.005 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01



Tgt Ion: 84 Resp: 8674
Ion Ratio Lower Upper
84 100
49 88.4 83.7 125.5
51 32.1 26.4 39.6
86 56.6 52.8 79.2

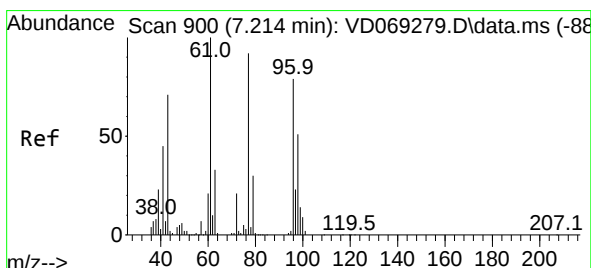
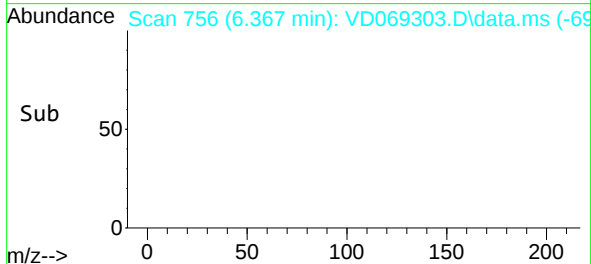
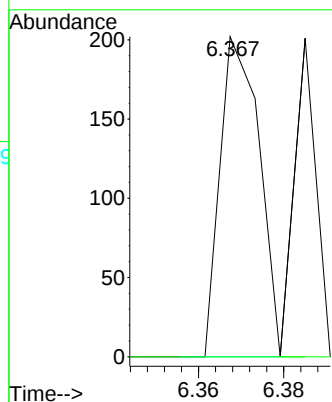
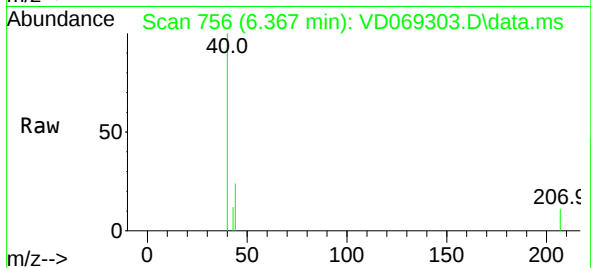




#23
 Vinyl Acetate
 Concen: 11.64 ug/l
 RT: 6.367 min Scan# 756
 Delta R.T. 0.058 min
 Lab File: VD069303.D
 Acq: 02 Jun 2021 16:01

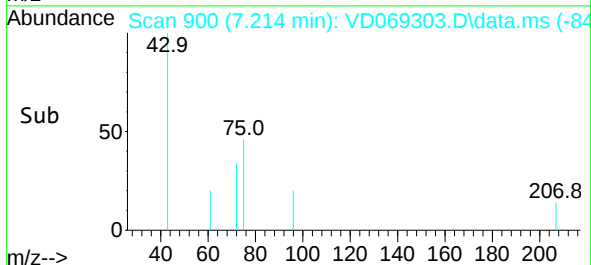
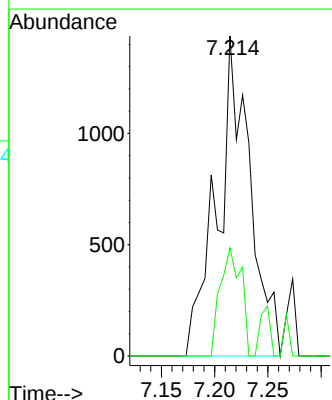
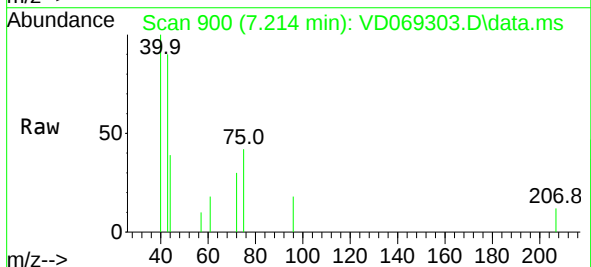
Instrument :
 MSVOA_D
 ClientSampled :

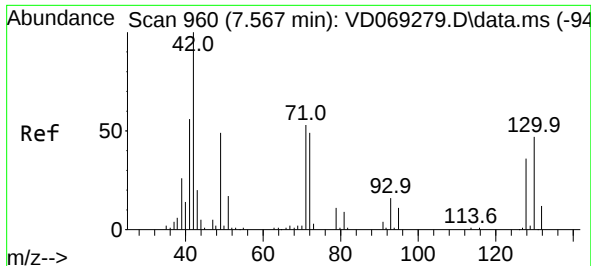
Tgt Ion: 43 Resp: 129
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.5 15.7#



#25
 2-Butanone
 Concen: 5.43 ug/l
 RT: 7.214 min Scan# 900
 Delta R.T. 0.000 min
 Lab File: VD069303.D
 Acq: 02 Jun 2021 16:01

Tgt Ion: 43 Resp: 3054
 Ion Ratio Lower Upper
 43 100
 72 33.8 23.9 35.9





#29

Tetrahydrofuran

Concen: 1.24 ug/l

RT: 7.550 min Scan# 957

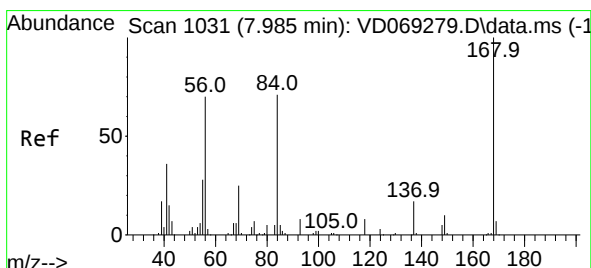
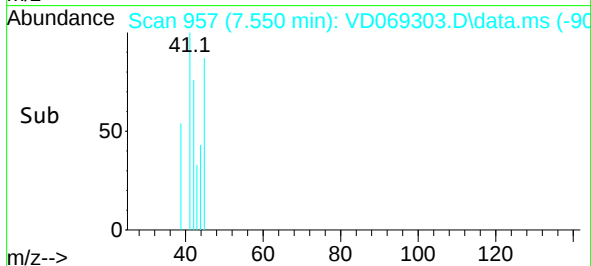
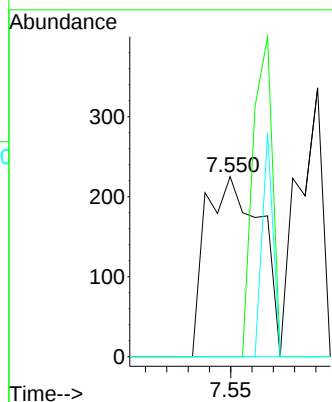
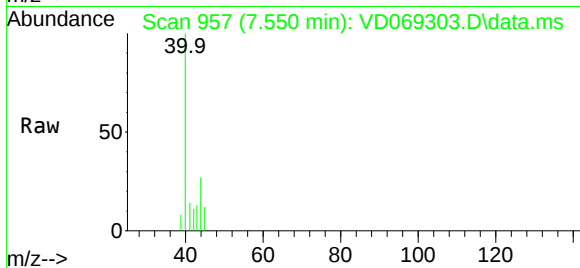
Delta R.T. -0.018 min

Lab File: VD069303.D

Acq: 02 Jun 2021 16:01

Tgt Ion:	42	Resp:	402
Ion	Ratio	Lower	Upper
42	100		
72	62.7	41.0	61.6#
71	24.4	38.9	58.3#

Instrument :
MSVOA_D
ClientSampled :



#31

Cyclohexane

Concen: 2.26 ug/l

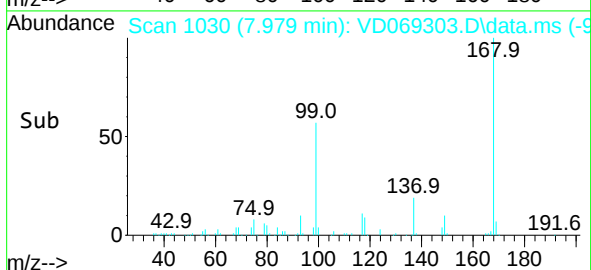
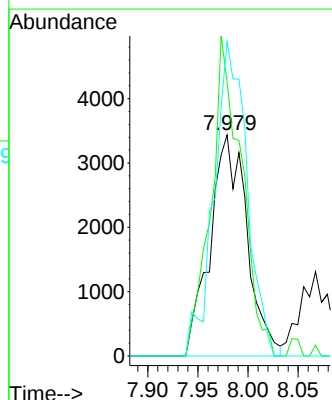
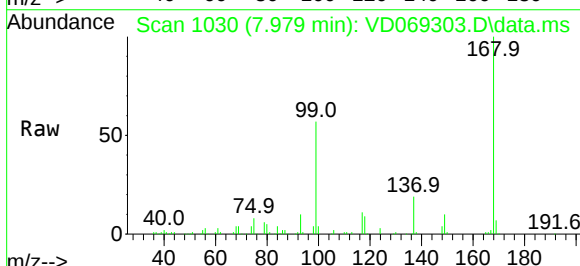
RT: 7.979 min Scan# 1030

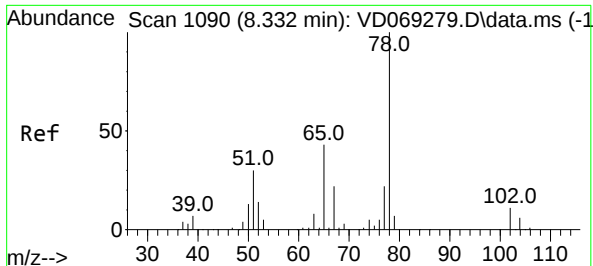
Delta R.T. -0.006 min

Lab File: VD069303.D

Acq: 02 Jun 2021 16:01

Tgt Ion:	56	Resp:	8789
Ion	Ratio	Lower	Upper
56	100		
69	124.1	29.0	43.4#
84	142.2	81.1	121.7#

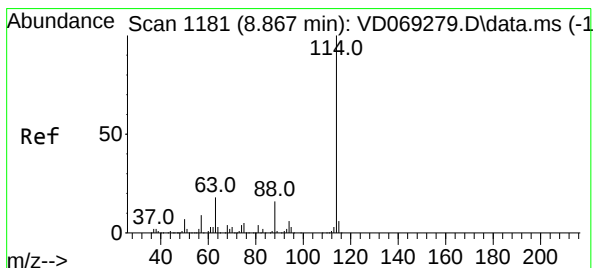
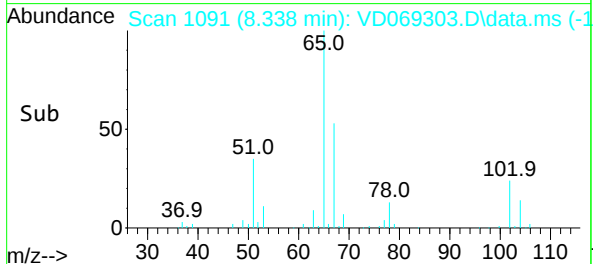
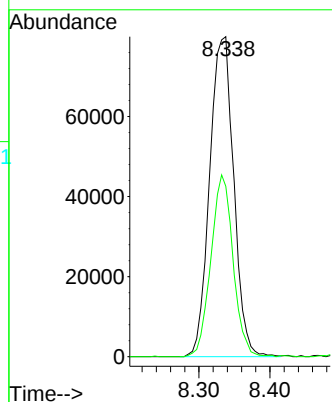
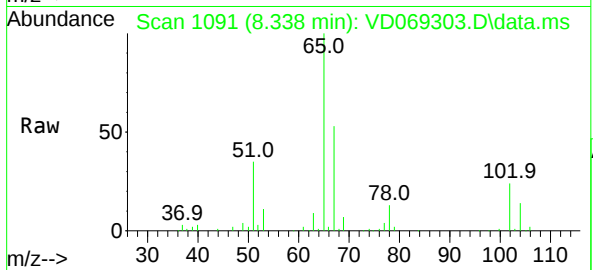




#33
1,2-Dichloroethane-d4
Concen: 76.83 ug/l
RT: 8.338 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

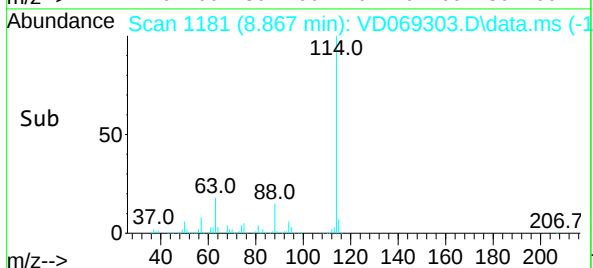
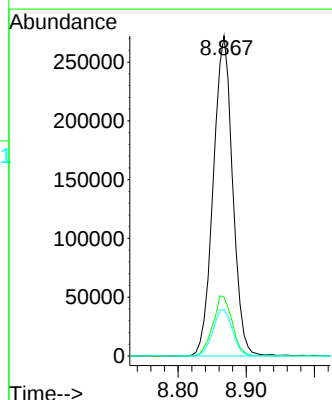
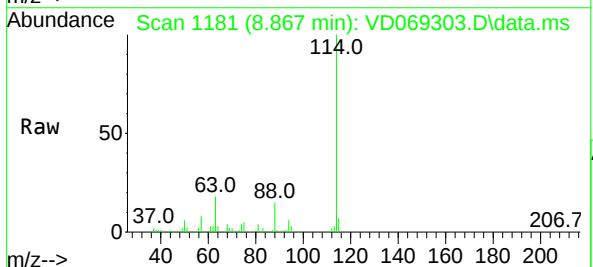
Instrument :
MSVOA_D
ClientSampled :

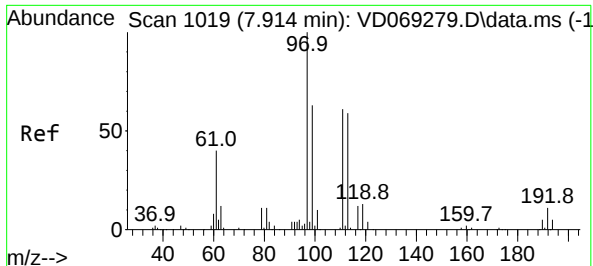
Tgt Ion: 65 Resp: 188139
Ion Ratio Lower Upper
65 100
67 52.3 0.0 105.8



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Tgt Ion: 114 Resp: 537654
Ion Ratio Lower Upper
114 100
63 18.4 0.0 35.6
88 14.5 0.0 31.2





#35

Dibromofluoromethane

Concen: 59.88 ug/l

RT: 7.920 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VD069303.D

Acq: 02 Jun 2021 16:01

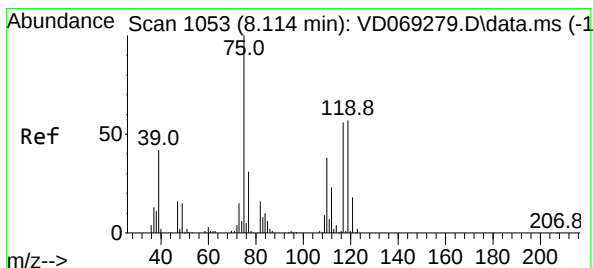
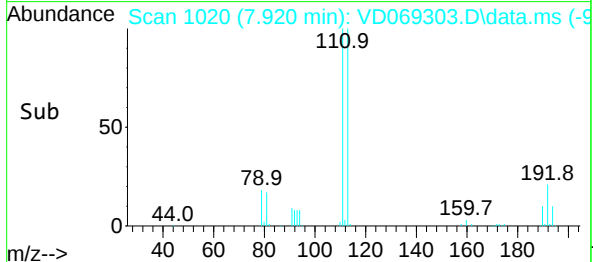
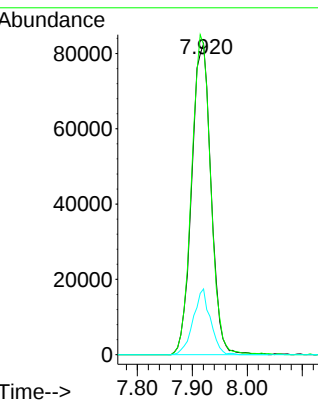
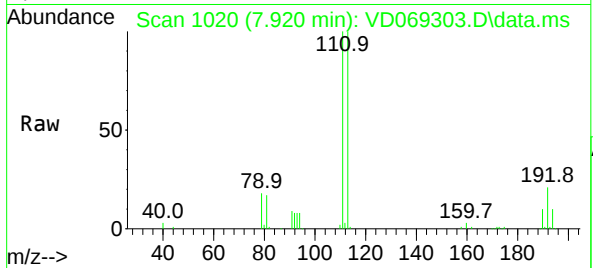
Tgt Ion:113 Resp: 202175

Ion Ratio Lower Upper

113 100

111 101.4 83.0 124.6

192 18.8 15.1 22.7



#36

1,1-Dichloropropene

Concen: 4.00 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.135 min

Lab File: VD069303.D

Acq: 02 Jun 2021 16:01

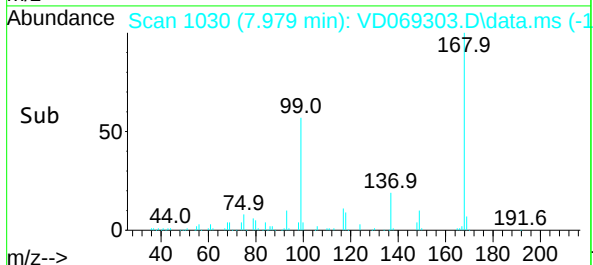
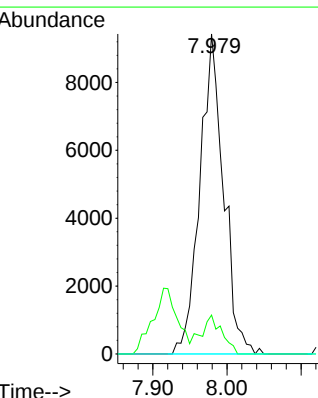
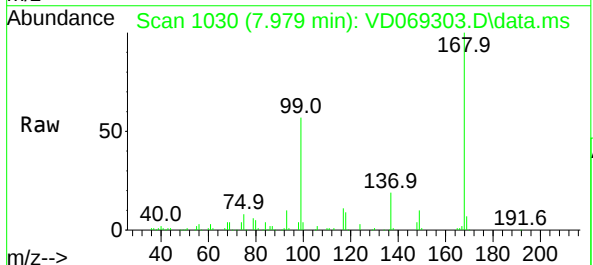
Tgt Ion: 75 Resp: 20925

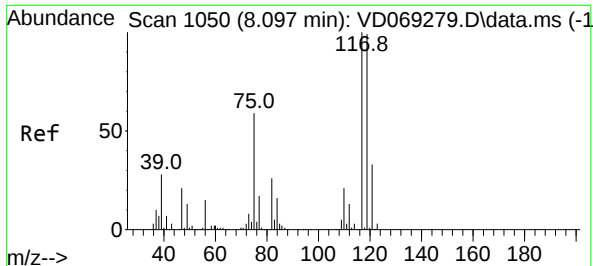
Ion Ratio Lower Upper

75 100

110 8.8 18.4 55.2#

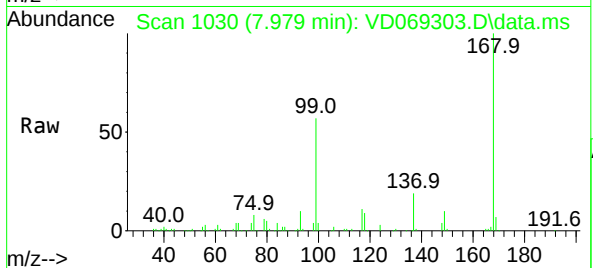
77 0.0 24.9 37.3#



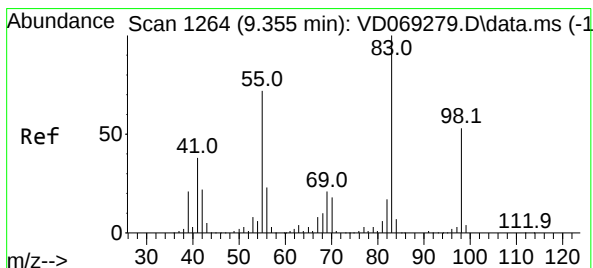
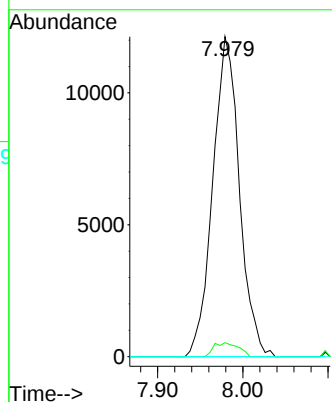
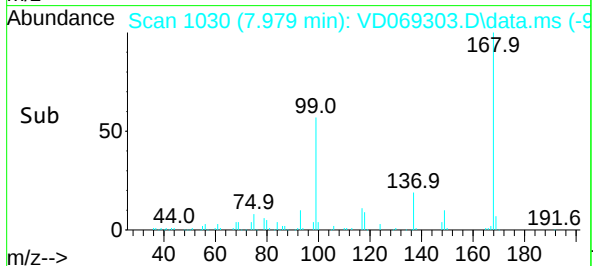


#38
Carbon Tetrachloride
Concen: 4.67 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

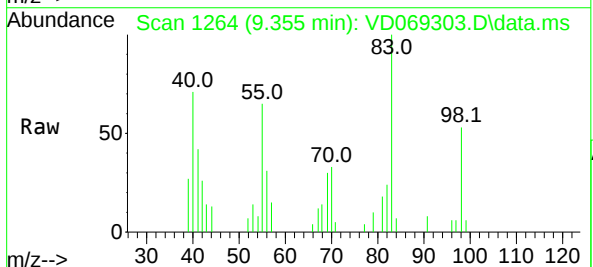
Instrument :
MSVOA_D
ClientSampled :



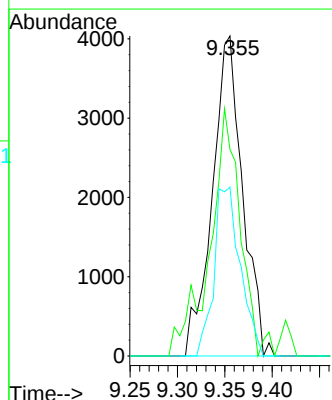
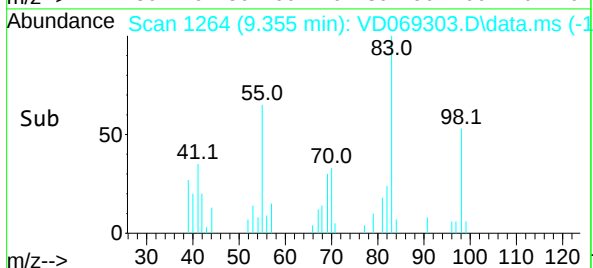
Tgt Ion:117 Resp: 26336
Ion Ratio Lower Upper
117 100
119 4.4 79.4 119.2#
121 0.0 26.1 39.1#

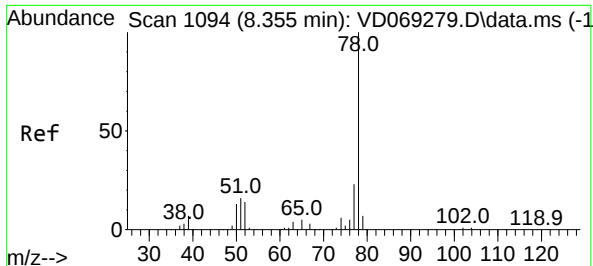


#39
Methylcyclohexane
Concen: 1.68 ug/l
RT: 9.355 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01



Tgt Ion: 83 Resp: 8963
Ion Ratio Lower Upper
83 100
55 59.2 57.4 86.2
98 52.7 42.2 63.2

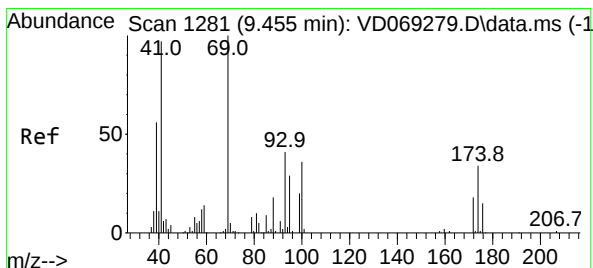
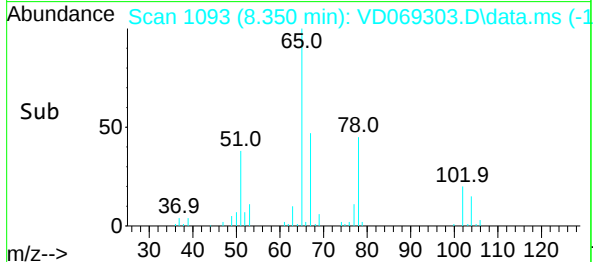
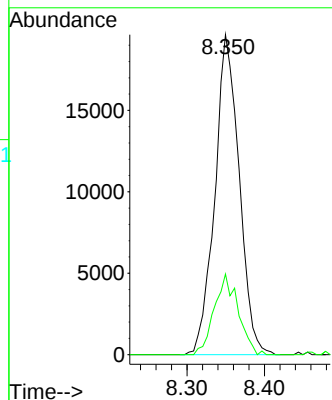
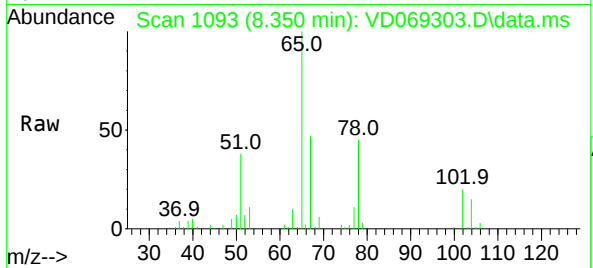




#40
Benzene
Concen: 2.83 ug/l
RT: 8.350 min Scan# 1093
Delta R.T. -0.006 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

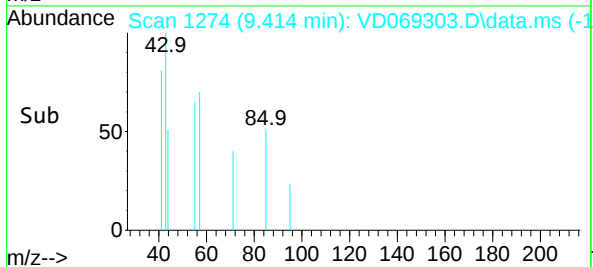
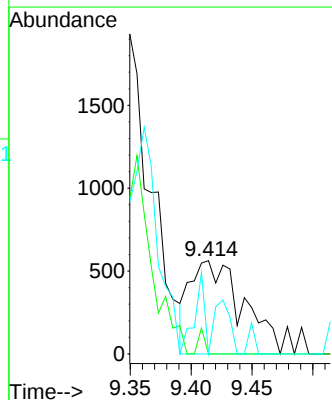
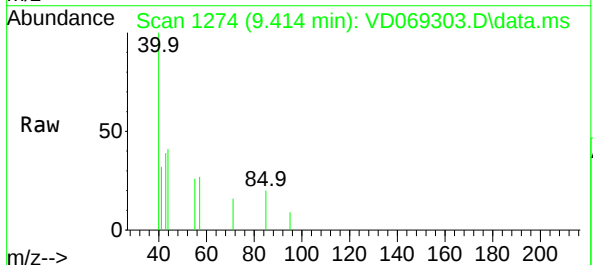
Instrument :
MSVOA_D
ClientSampled :

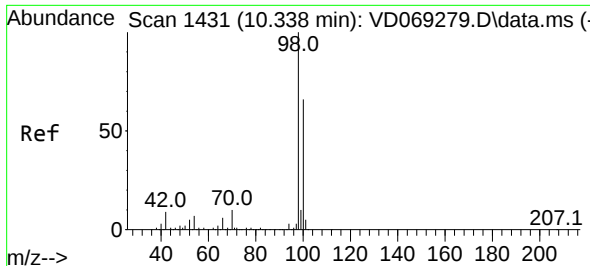
Tgt Ion: 78 Resp: 42950
Ion Ratio Lower Upper
78 100
77 25.2 18.7 28.1



#48
Methyl methacrylate
Concen: 1.13 ug/l
RT: 9.414 min Scan# 1274
Delta R.T. -0.041 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Tgt Ion: 41 Resp: 1694
Ion Ratio Lower Upper
41 100
69 0.0 77.6 116.4#
39 16.7 45.3 67.9#

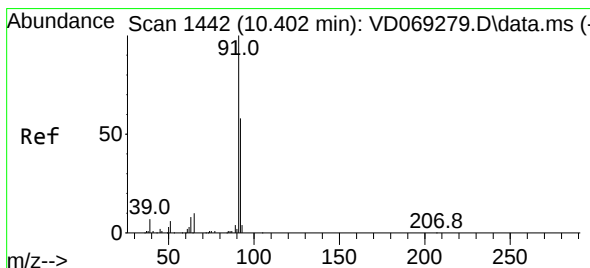
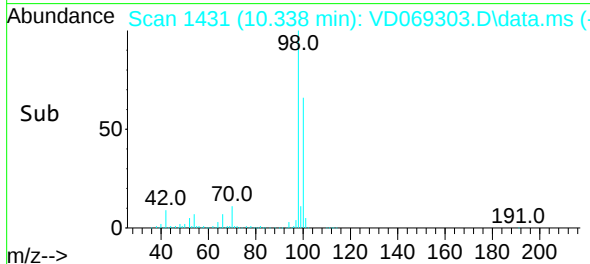
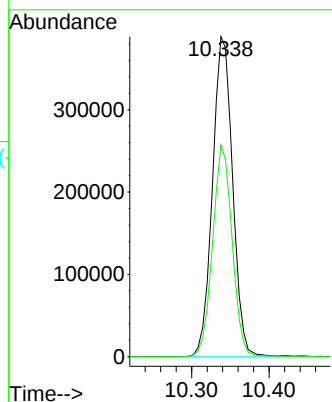
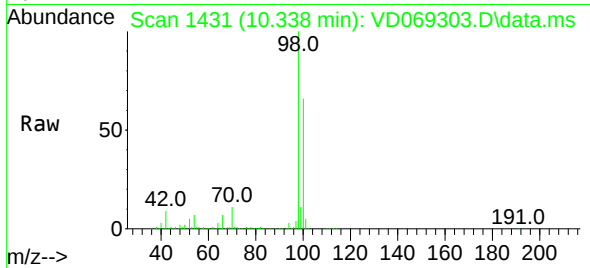




#50
Toluene-d8
Concen: 57.02 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

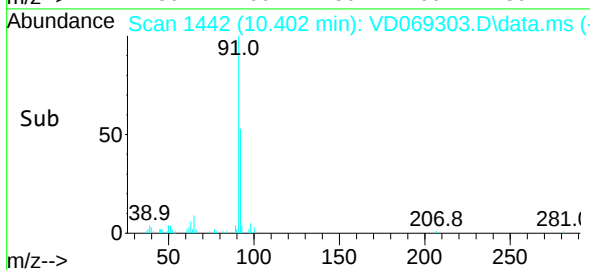
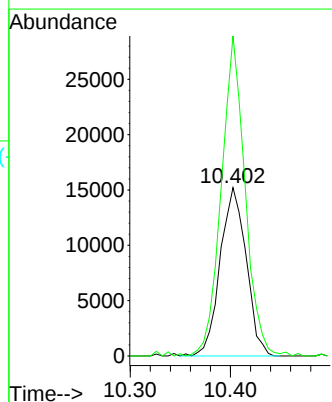
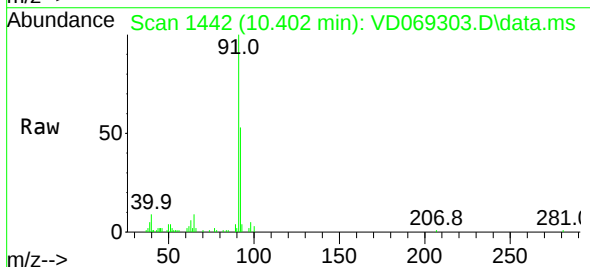
Instrument :
MSVOA_D
ClientSampled :

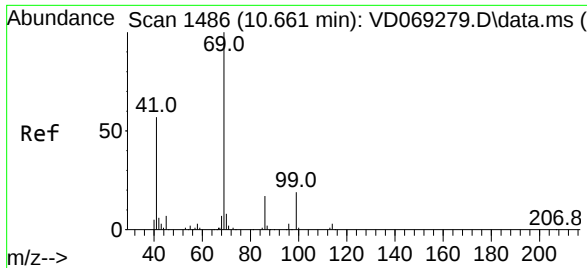
Tgt Ion: 98 Resp: 700023
Ion Ratio Lower Upper
98 100
100 64.4 52.1 78.1



#52
Toluene
Concen: 2.87 ug/l
RT: 10.402 min Scan# 1442
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Tgt Ion: 92 Resp: 27459
Ion Ratio Lower Upper
92 100
91 173.9 138.4 207.6

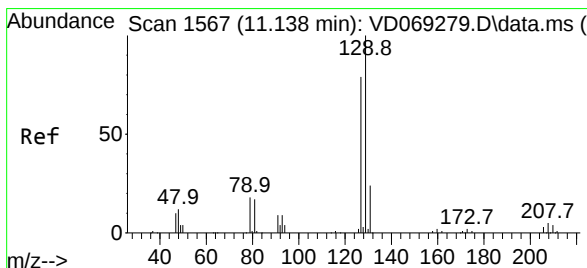
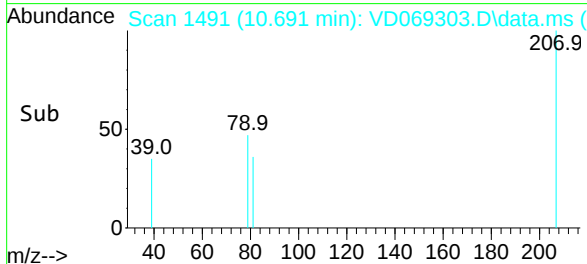
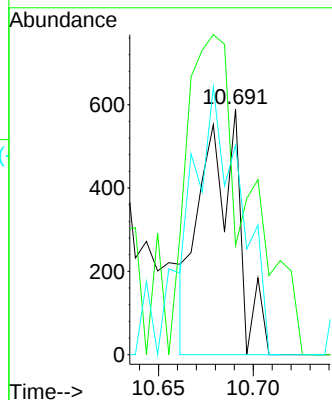
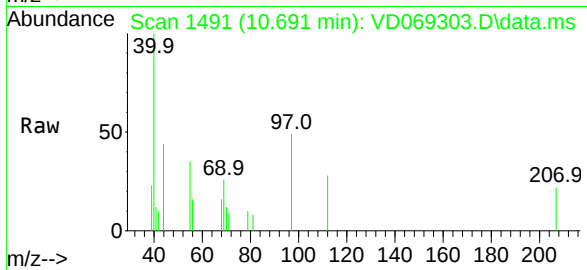




#56
Ethyl methacrylate
Concen: 2.87 ug/l
RT: 10.691 min Scan# 1491
Delta R.T. 0.030 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

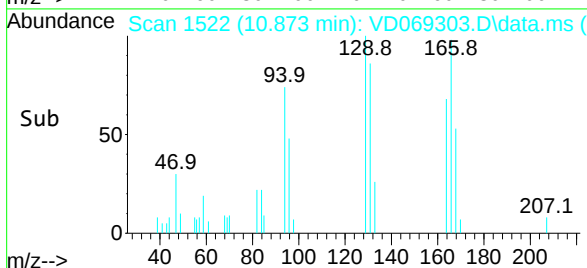
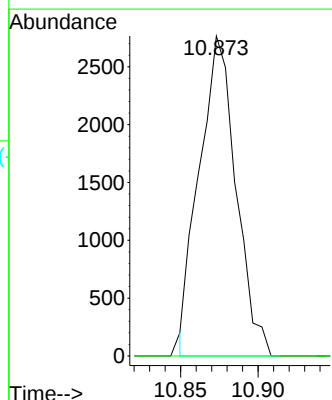
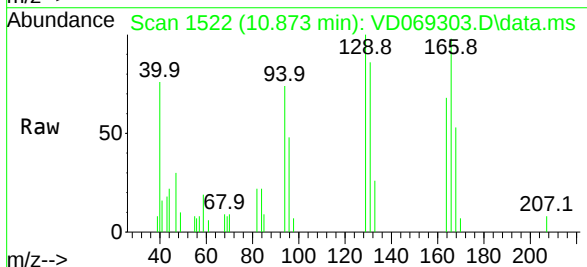
Instrument :
MSVOA_D
ClientSampled :

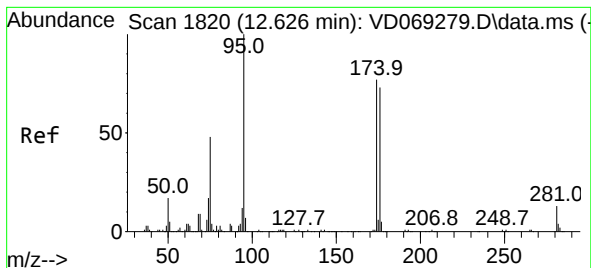
Tgt Ion: 69 Resp: 806
Ion Ratio Lower Upper
69 100
41 213.2 45.4 68.2#
39 156.2 21.7 32.5#



#60
Dibromochloromethane
Concen: 1.27 ug/l
RT: 10.873 min Scan# 1522
Delta R.T. -0.265 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Tgt Ion: 129 Resp: 4568
Ion Ratio Lower Upper
129 100
127 0.0 39.6 118.7#

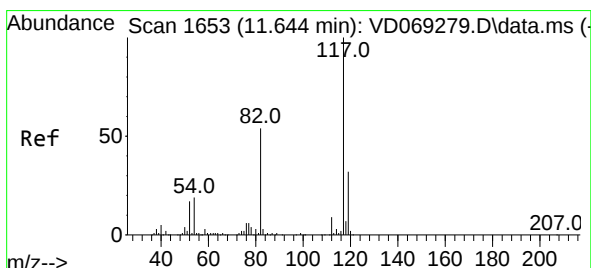
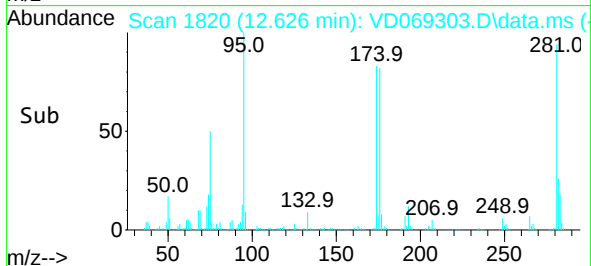
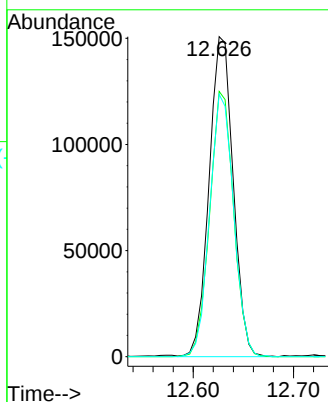
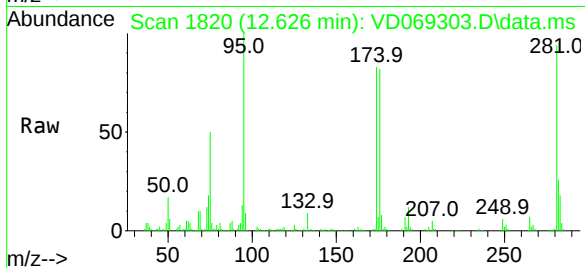




#62
4-Bromofluorobenzene
Concen: 62.42 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

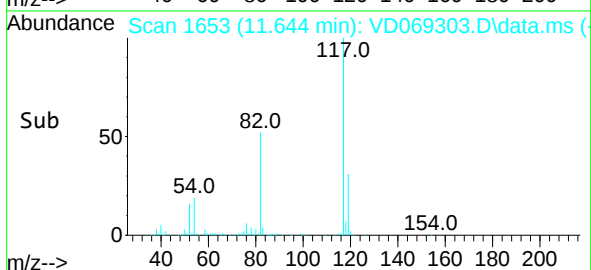
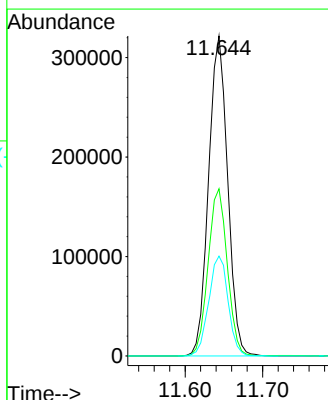
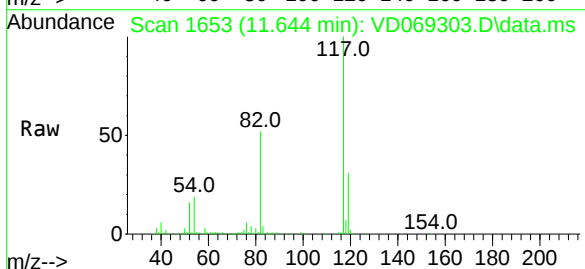
Instrument :
MSVOA_D
ClientSampled :

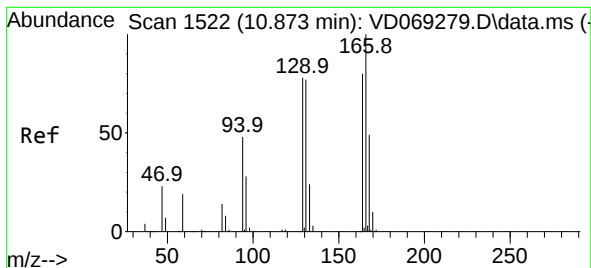
Tgt Ion:	95	Resp:	251126
Ion Ratio	Lower	Upper	
95	100		
174	82.1	0.0	162.8
176	81.6	0.0	154.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Tgt Ion:	117	Resp:	549175
Ion Ratio	Lower	Upper	
117	100		
82	52.3	43.3	64.9
119	31.2	25.3	37.9

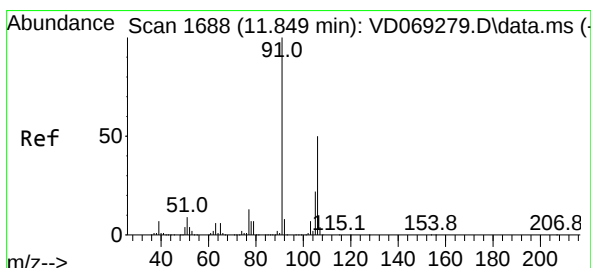
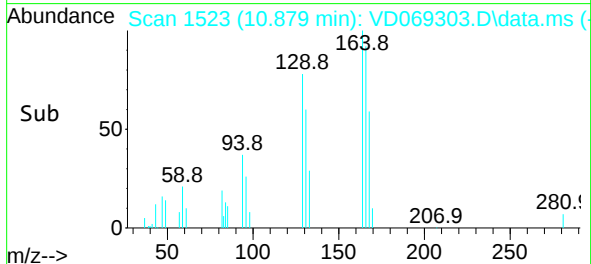
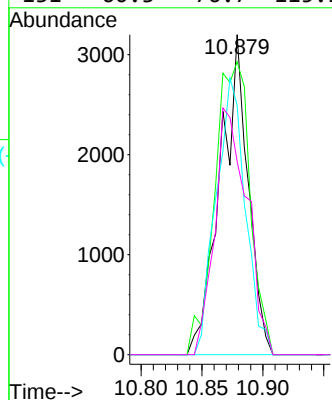
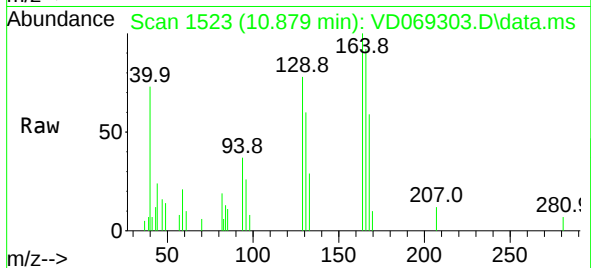




#64
Tetrachloroethene
Concen: 1.34 ug/l
RT: 10.879 min Scan# 1523
Delta R.T. 0.006 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

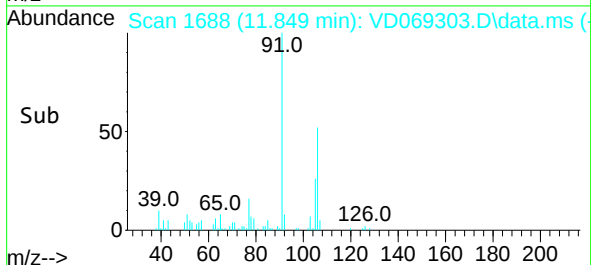
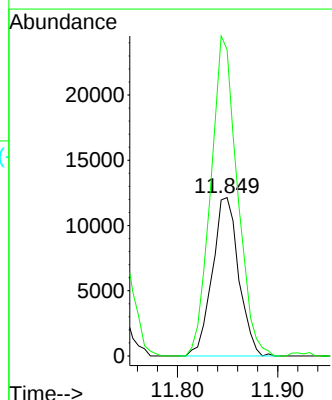
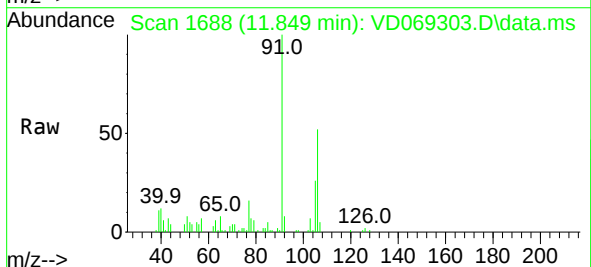
Instrument :
MSVOA_D
ClientSampled :

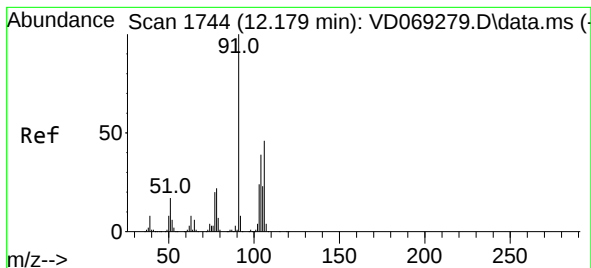
Tgt Ion:	164	Resp:	5116
Ion	Ratio	Lower	Upper
164	100		
166	91.5	100.2	150.4#
129	77.9	78.1	117.1#
131	60.3	76.7	115.1#



#68
m/p-Xylenes
Concen: 2.93 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Tgt Ion:	106	Resp:	22136
Ion	Ratio	Lower	Upper
106	100		
91	203.9	158.3	237.5

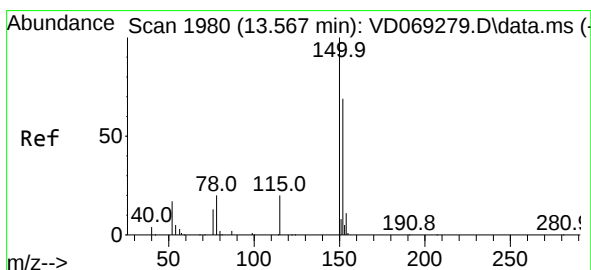
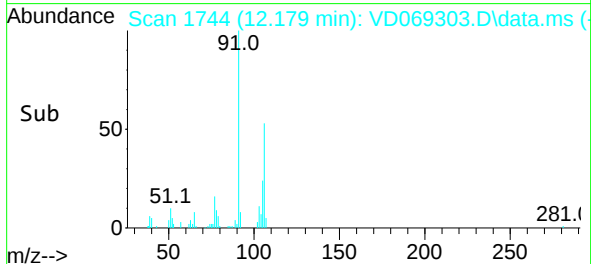
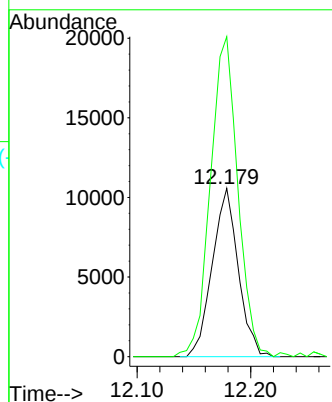
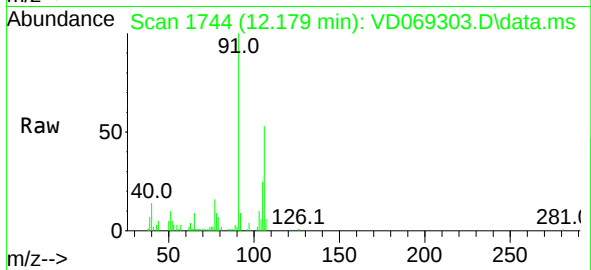




#69
o-Xylene
Concen: 2.51 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

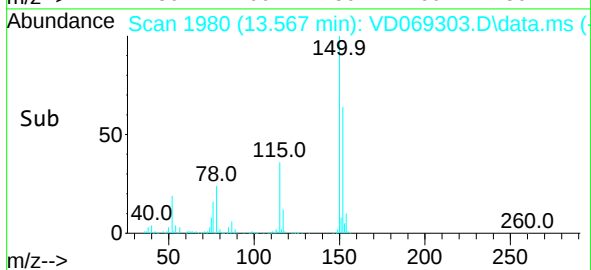
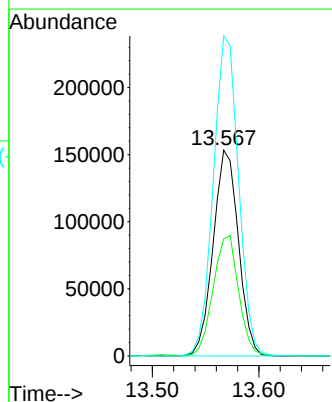
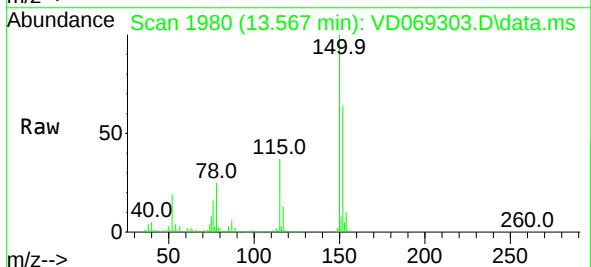
Instrument :
MSVOA_D
ClientSampled :

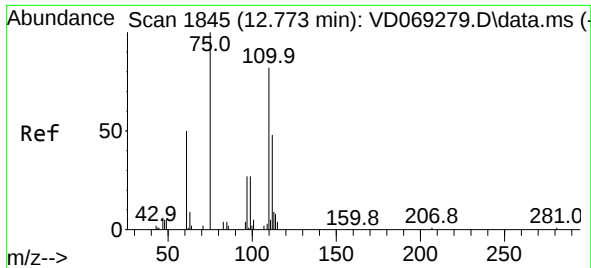
Tgt Ion:106 Resp: 16787
Ion Ratio Lower Upper
106 100
91 200.1 105.5 316.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Tgt Ion:152 Resp: 252537
Ion Ratio Lower Upper
152 100
115 59.2 29.4 88.3
150 155.3 0.0 355.0

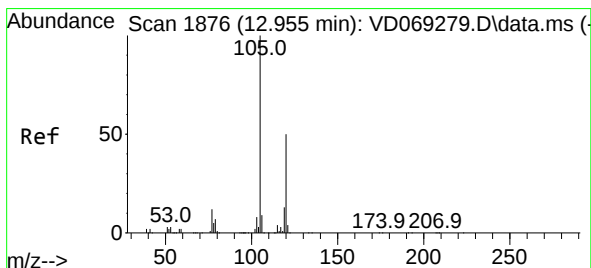
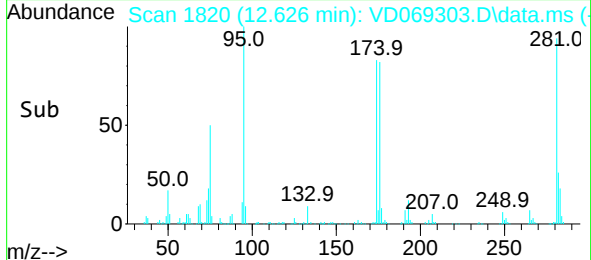
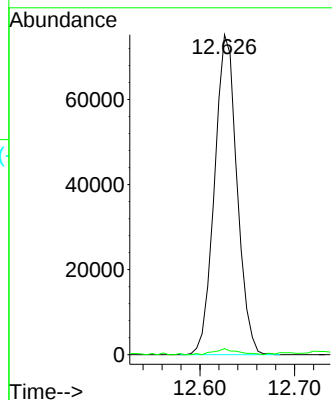
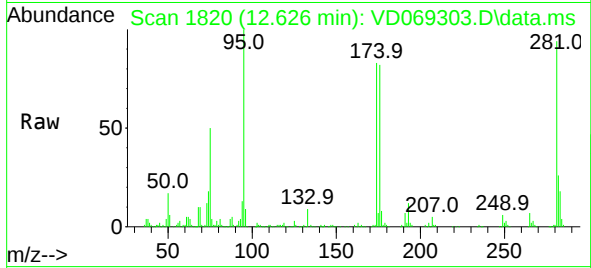




#76
1,2,3-Trichloropropane
Concen: 56.48 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

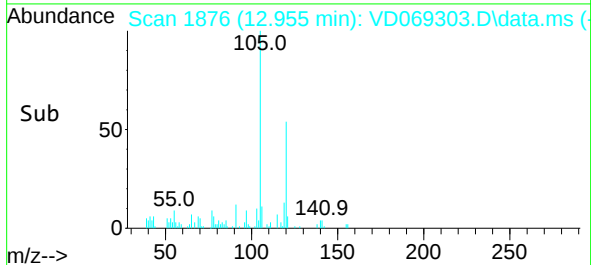
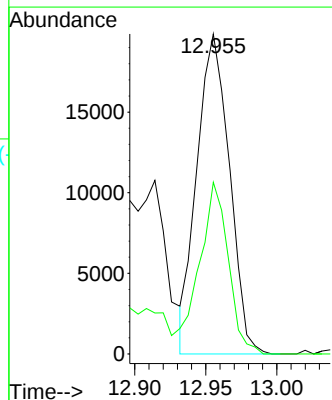
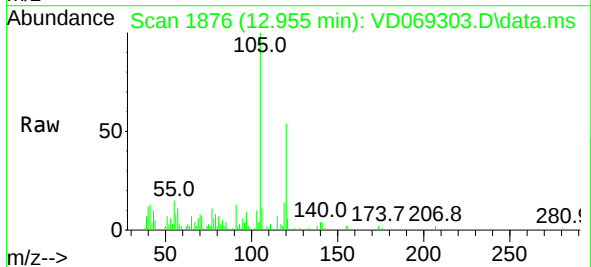
Instrument :
MSVOA_D
ClientSampleId :

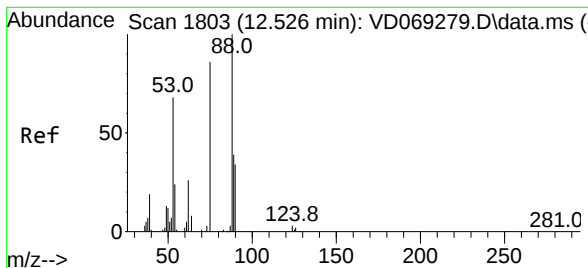
Tgt Ion: 75 Resp: 123920
Ion Ratio Lower Upper
75 100
77 2.0 183.8 551.2#



#80
1,3,5-Trimethylbenzene
Concen: 2.15 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

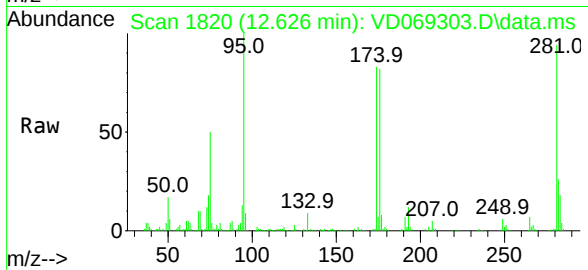
Tgt Ion: 105 Resp: 31484
Ion Ratio Lower Upper
105 100
120 48.4 24.9 74.7



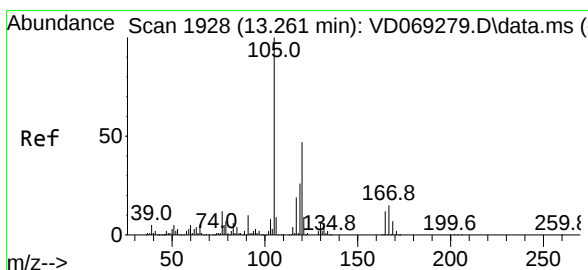
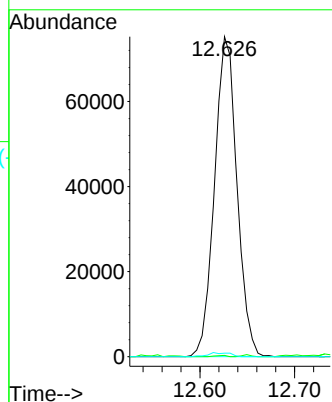
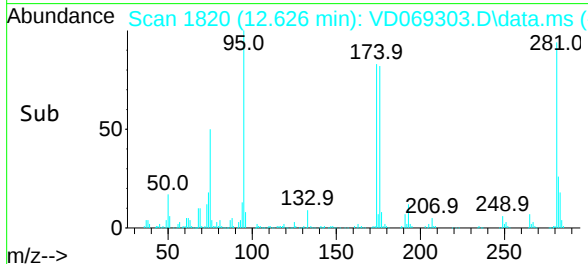


#81
trans-1,4-Dichloro-2-butene
Concen: 125.16 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.100 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

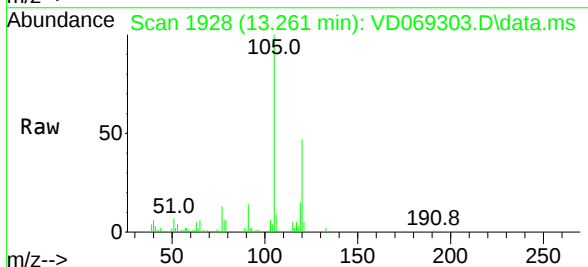
Instrument :
MSVOA_D
ClientSampled :



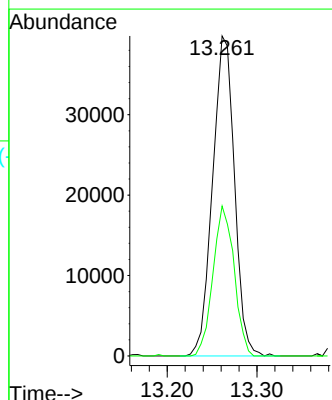
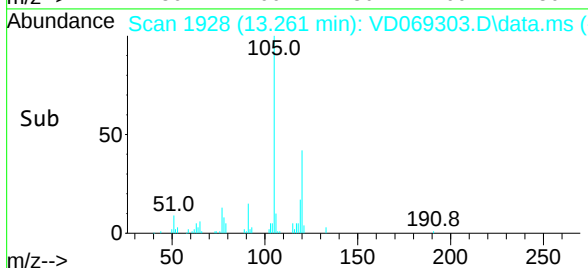
Tgt Ion: 75 Resp: 123920
Ion Ratio Lower Upper
75 100
53 0.2 62.6 94.0#
89 1.2 35.6 53.4#

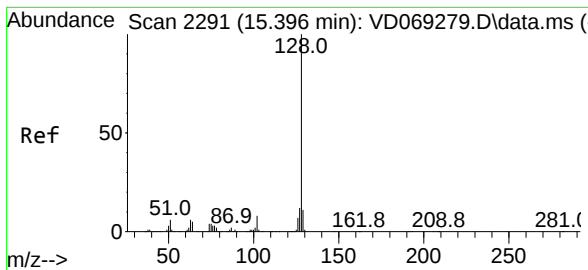


#84
1,2,4-Trimethylbenzene
Concen: 4.63 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.000 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01



Tgt Ion: 105 Resp: 67328
Ion Ratio Lower Upper
105 100
120 45.2 22.6 67.8





#95
Naphthalene
Concen: 67.79 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. -0.006 min
Lab File: VD069303.D
Acq: 02 Jun 2021 16:01

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 595008
Ion Ratio Lower Upper
128 100
127 13.2 10.4 15.6
129 11.0 8.8 13.2

