

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060221\
 Data File : VD069309.D
 Acq On : 02 Jun 2021 18:51
 Operator : VA/SY
 Sample : M2580-09
 Misc : 5.56G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 03 01:11:15 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)

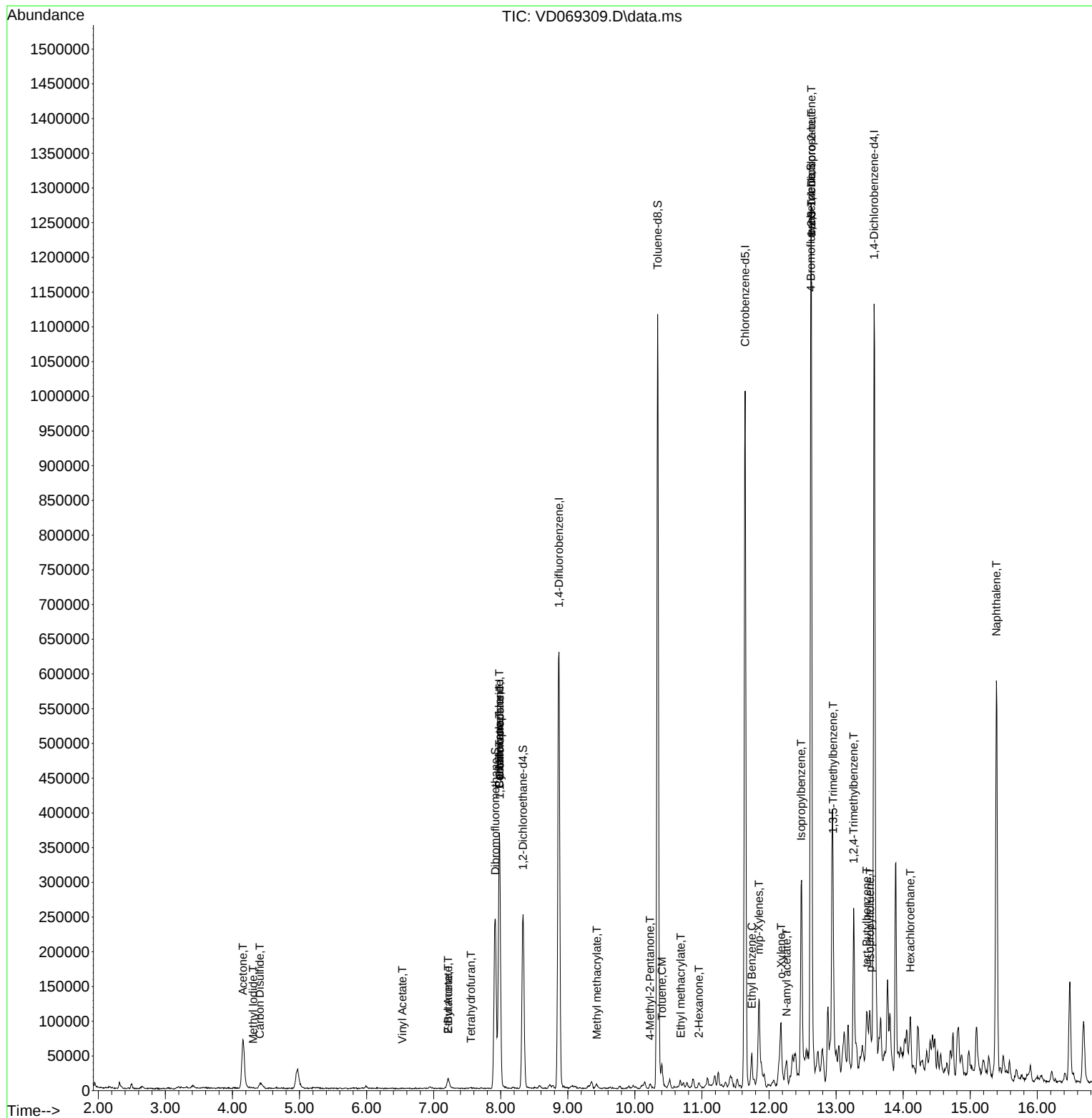
Internal Standards						
1) Pentafluorobenzene	7.979	168	271314	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	573262	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	612036	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	297229	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	204545	78.57	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 157.14%			
35) Dibromofluoromethane	7.920	113	187674	52.13	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.26%			
50) Toluene-d8	10.338	98	758298	57.93	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 115.86%			
62) 4-Bromofluorobenzene	12.626	95	290167	67.65	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 135.30%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.309	142	663	2.72	ug/l #	80
11) Tert butyl alcohol	5.220	59	1555	Below Cal	#	73
16) Acetone	4.156	43	122939	270.61	ug/l	98
17) Carbon Disulfide	4.409	76	11473	1.27	ug/l #	85
23) Vinyl Acetate	6.532	43	77	11.63	ug/l #	67
25) 2-Butanone	7.214	43	18944	31.69	ug/l	93
29) Tetrahydrofuran	7.556	42	348	1.01	ug/l #	43
31) Cyclohexane	7.979	56	5874	1.42	ug/l #	1
36) 1,1-Dichloropropene	7.985	75	20839	3.74	ug/l #	41
37) Ethyl Acetate	7.214	43	18944	10.01	ug/l #	70
38) Carbon Tetrachloride	7.979	117	28674	4.77	ug/l #	16
48) Methyl methacrylate	9.432	41	2070	1.29	ug/l #	24
51) 4-Methyl-2-Pentanone	10.226	43	3758	2.11	ug/l	95
52) Toluene	10.402	92	12079	1.18	ug/l	86
56) Ethyl methacrylate	10.685	69	1518	3.05	ug/l #	17
59) 2-Hexanone	10.955	43	5758	4.84	ug/l #	31
67) Ethyl Benzene	11.744	91	28523	1.33	ug/l	97
68) m/p-Xylenes	11.849	106	25726	3.06	ug/l	97
69) o-Xylene	12.179	106	19586	2.63	ug/l	92
73) Isopropylbenzene	12.479	105	31089	1.53	ug/l	88
74) N-amyl acetate	12.261	43	11689	3.25	ug/l #	58
76) 1,2,3-Trichloropropane	12.632	75	144261	55.86	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.955	105	56351	3.27	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.632	75	144261	123.79	ug/l #	19
83) tert-Butylbenzene	13.455	119	17952	1.24	ug/l	73
84) 1,2,4-Trimethylbenzene	13.261	105	131997	7.70	ug/l	99
86) p-Isopropyltoluene	13.508	119	23497	1.26	ug/l	96
90) Hexachloroethane	14.108	117	3885	1.10	ug/l #	14
95) Naphthalene	15.390	128	518218	51.02	ug/l	99

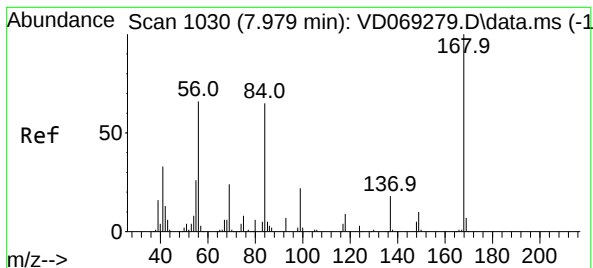
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060221\
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Quant Time: Jun 03 01:11:15 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

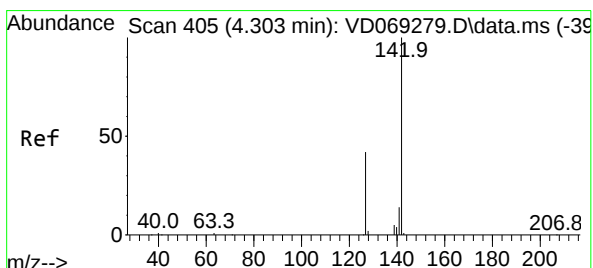
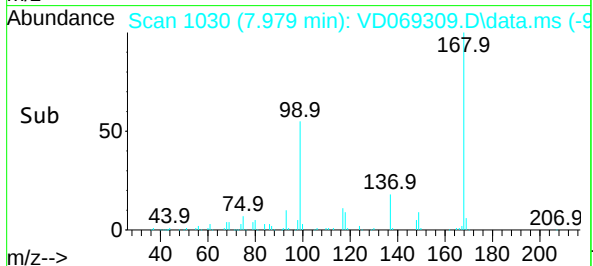
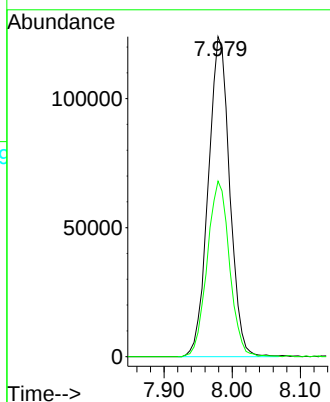
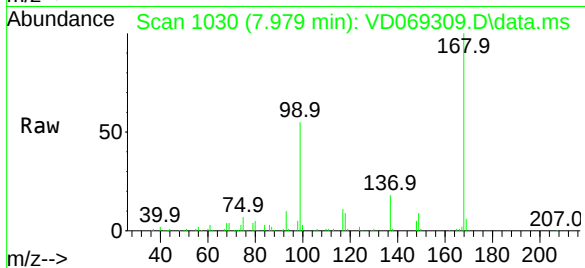




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

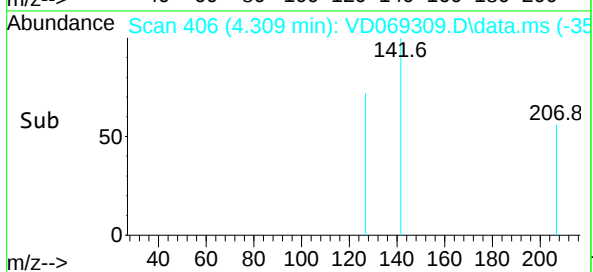
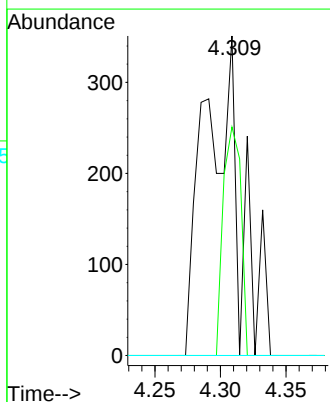
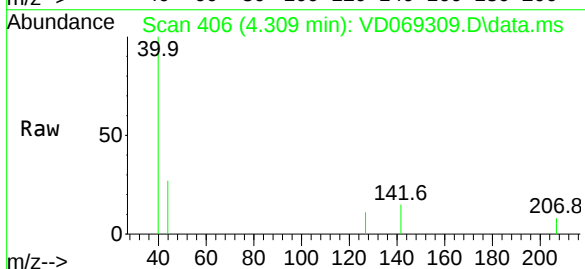
Instrument :
MSVOA_D
ClientSampled :

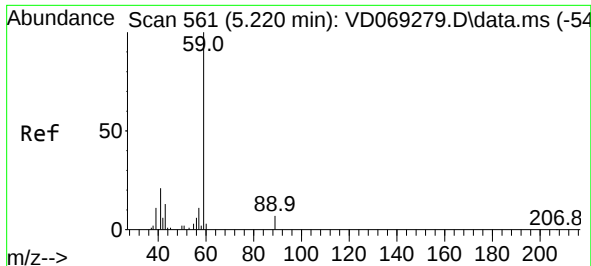
Tgt Ion:168 Resp: 271314
Ion Ratio Lower Upper
168 100
99 54.8 46.2 69.2



#10
Methyl Iodide
Concen: 2.72 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.006 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

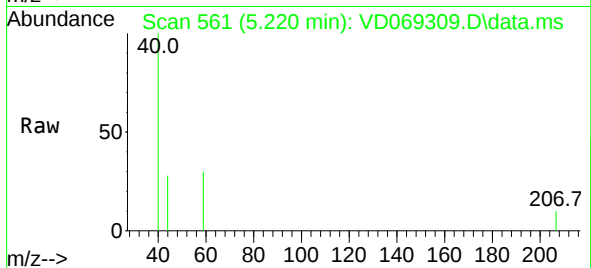
Tgt Ion:142 Resp: 663
Ion Ratio Lower Upper
142 100
127 35.4 36.2 54.2#
141 0.0 12.2 18.2#



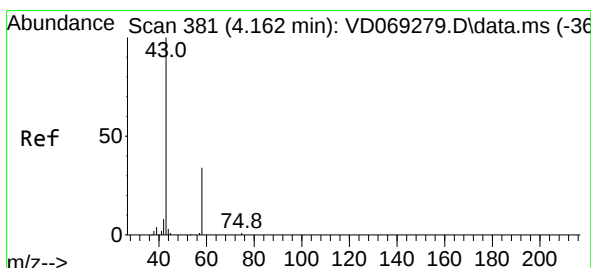
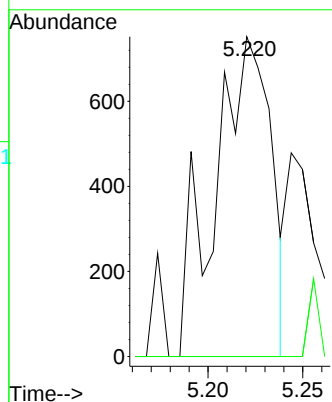
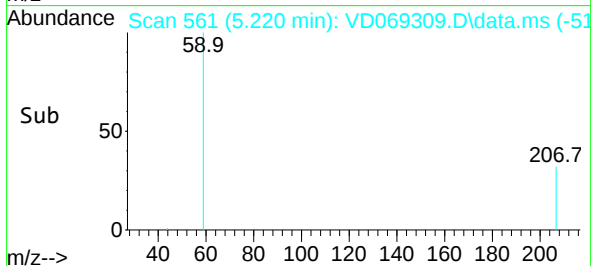


#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.220 min Scan# 561
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

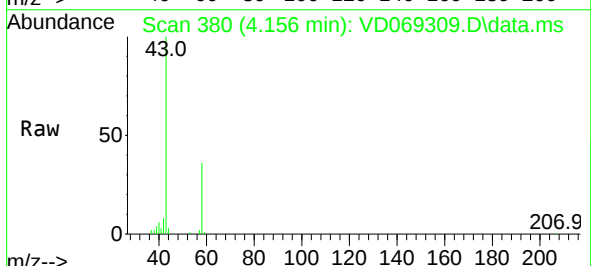
Instrument :
MSVOA_D
ClientSampled :



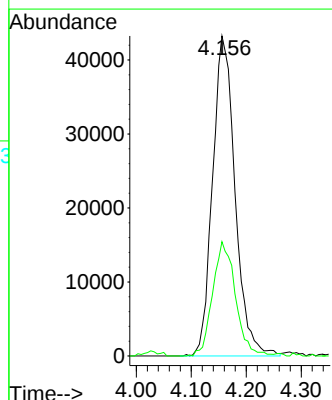
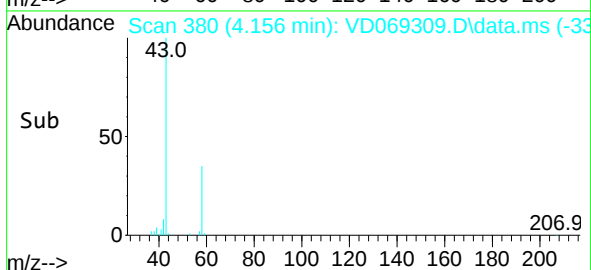
Tgt Ion: 59 Resp: 1555
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

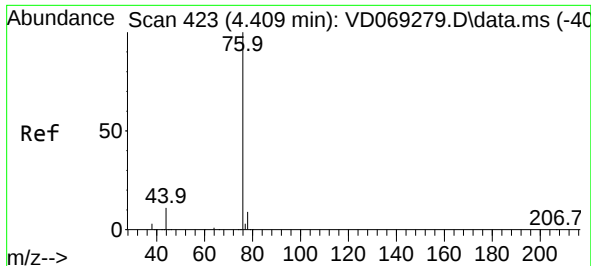


#16
Acetone
Concen: 270.61 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51



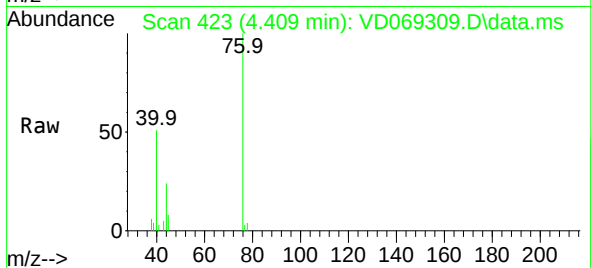
Tgt Ion: 43 Resp: 122939
Ion Ratio Lower Upper
43 100
58 35.7 27.5 41.3



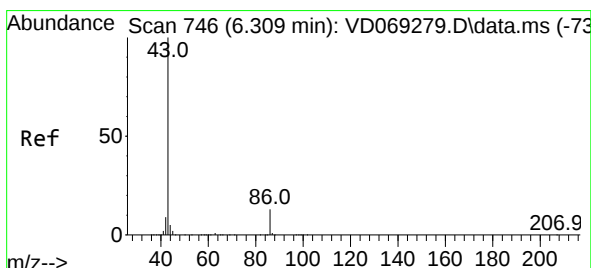
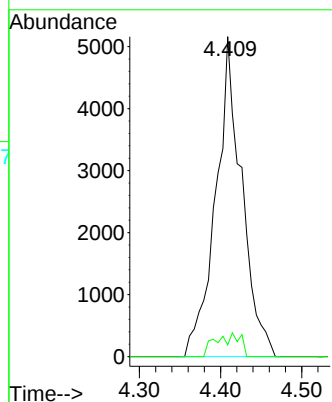
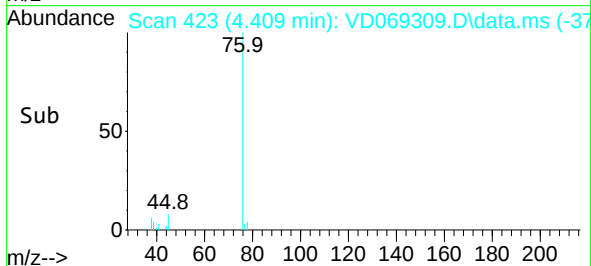


#17
Carbon Disulfide
Concen: 1.27 ug/l
RT: 4.409 min Scan# 423
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

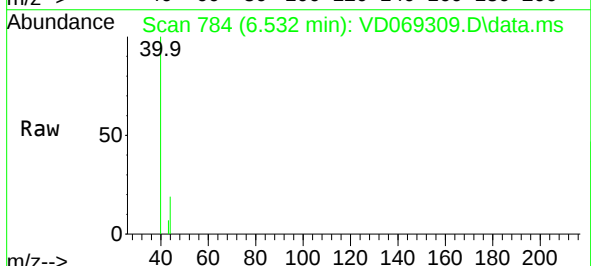
Instrument :
MSVOA_D
ClientSampleId :



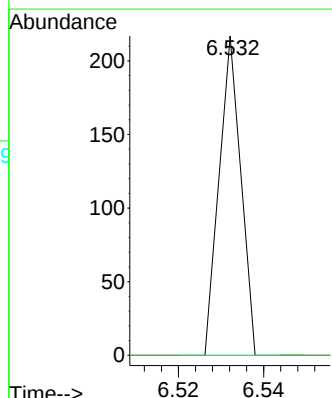
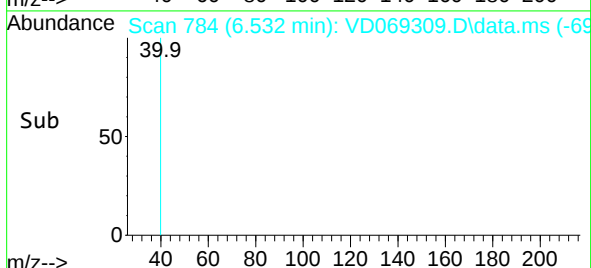
Tgt Ion: 76 Resp: 11473
Ion Ratio Lower Upper
76 100
78 3.7 7.4 11.0#

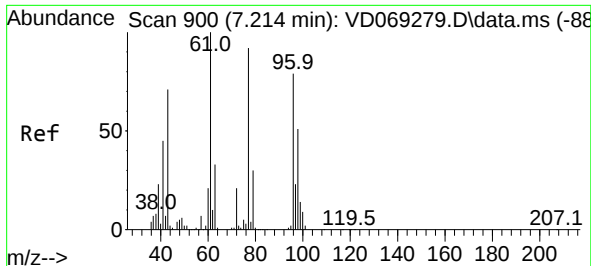


#23
Vinyl Acetate
Concen: 11.63 ug/l
RT: 6.532 min Scan# 784
Delta R.T. 0.223 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51



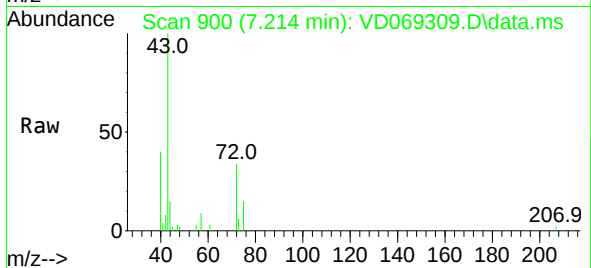
Tgt Ion: 43 Resp: 77
Ion Ratio Lower Upper
43 100
86 0.0 10.5 15.7#



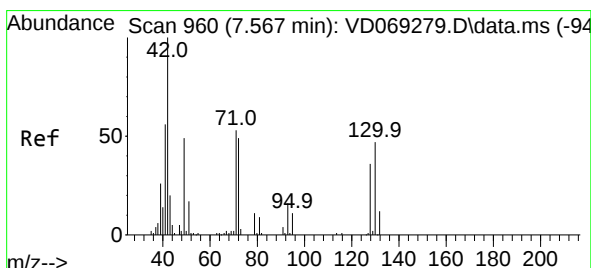
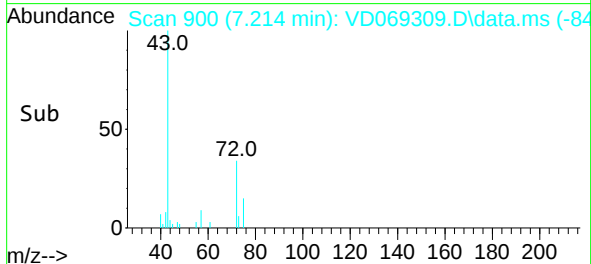
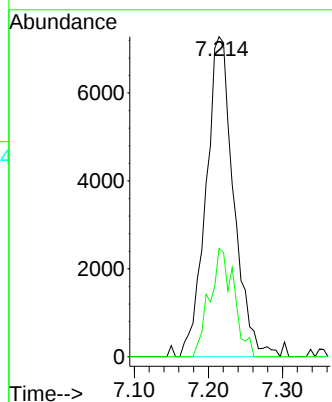


#25
2-Butanone
Concen: 31.69 ug/l
RT: 7.214 min Scan# 900
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Instrument :
MSVOA_D
ClientSampled :

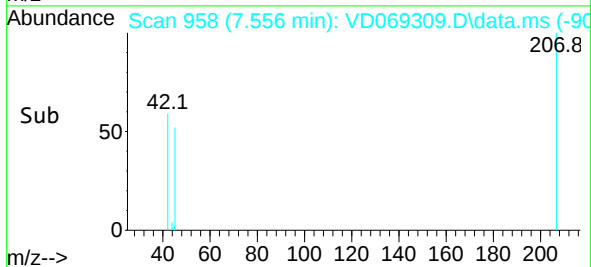
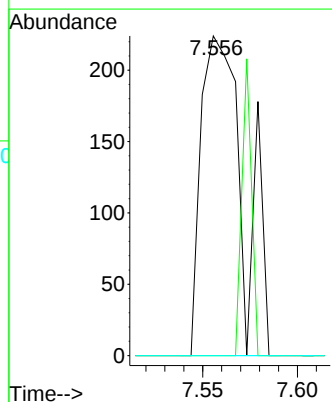
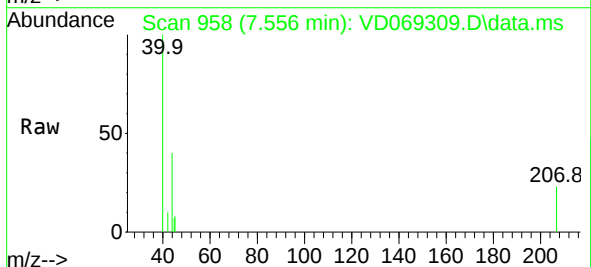


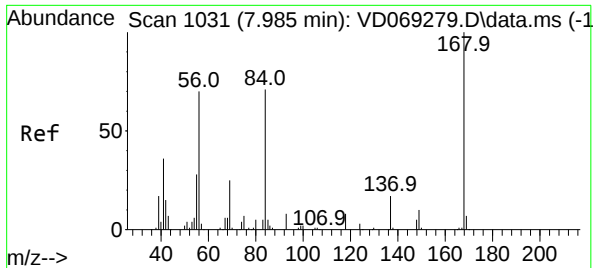
Tgt Ion: 43 Resp: 18944
Ion Ratio Lower Upper
43 100
72 33.9 23.9 35.9



#29
Tetrahydrofuran
Concen: 1.01 ug/l
RT: 7.556 min Scan# 958
Delta R.T. -0.012 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion: 42 Resp: 348
Ion Ratio Lower Upper
42 100
72 21.0 41.0 61.6#
71 0.0 38.9 58.3#

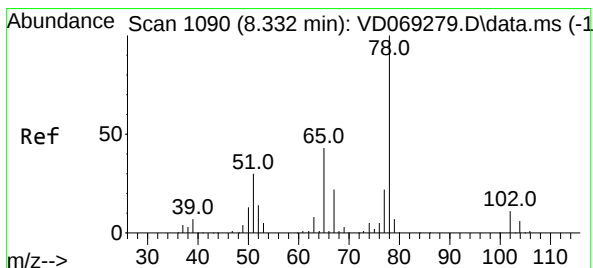
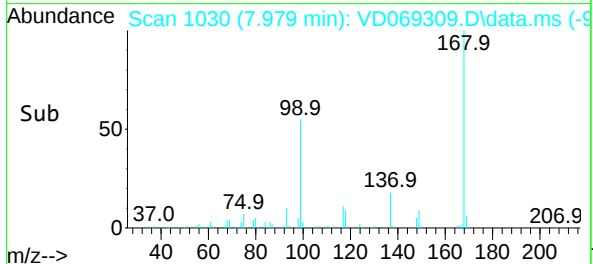
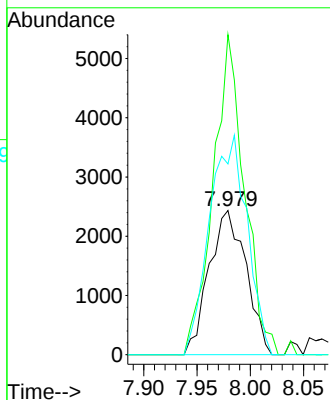
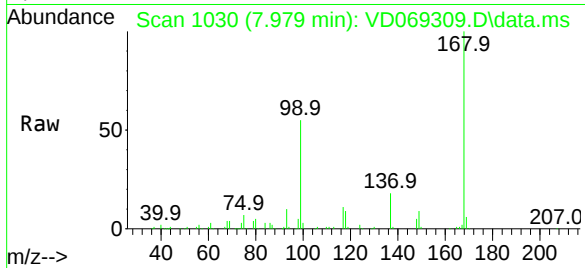




#31
Cyclohexane
Concen: 1.42 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

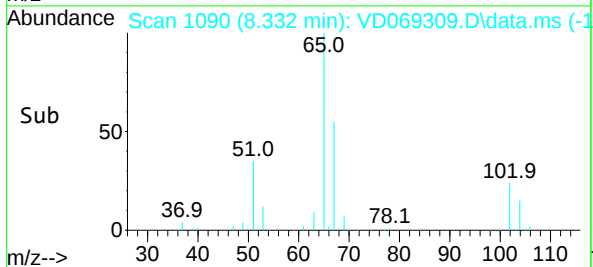
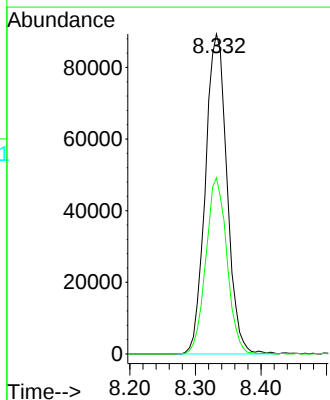
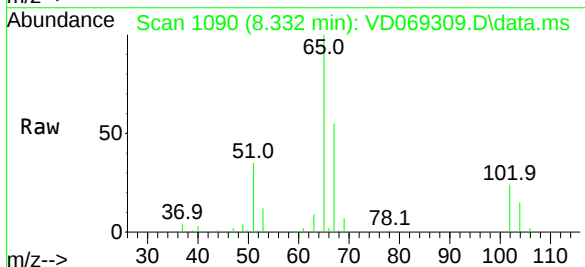
Instrument :
MSVOA_D
ClientSampled :

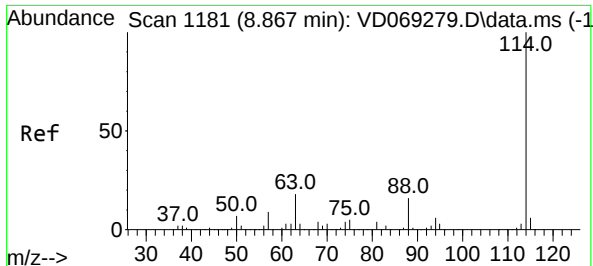
Tgt Ion: 56 Resp: 5874
Ion Ratio Lower Upper
56 100
69 222.1 29.0 43.4#
84 132.3 81.1 121.7#



#33
1,2-Dichloroethane-d4
Concen: 78.57 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion: 65 Resp: 204545
Ion Ratio Lower Upper
65 100
67 53.6 0.0 105.8

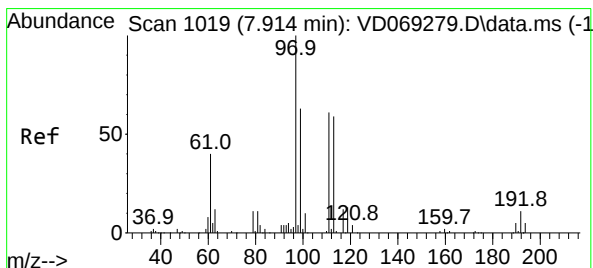
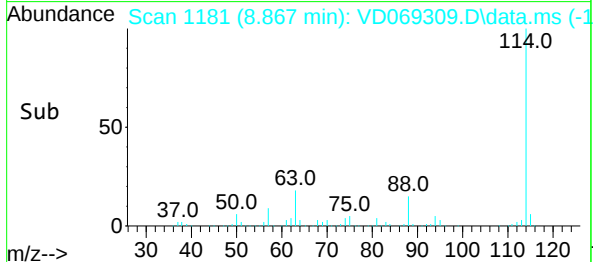
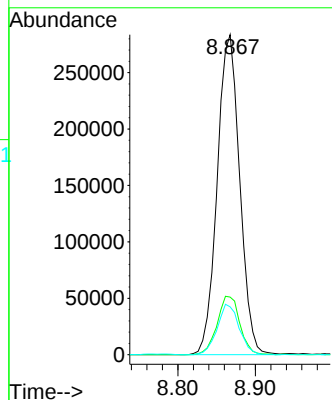
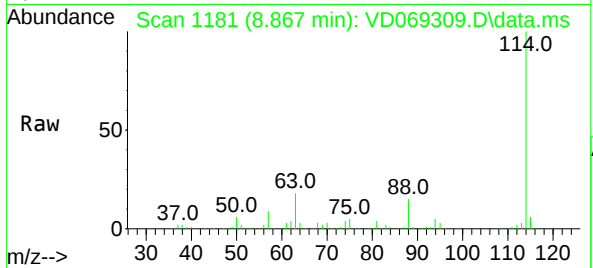




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

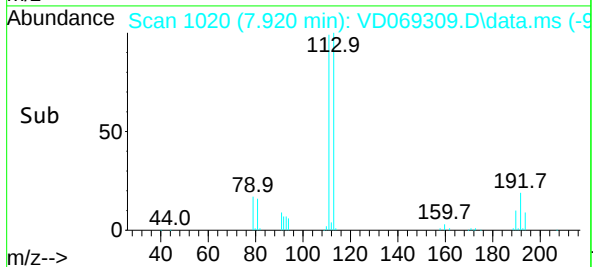
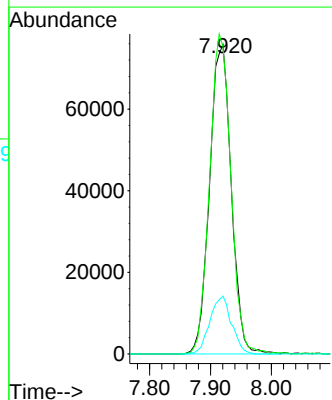
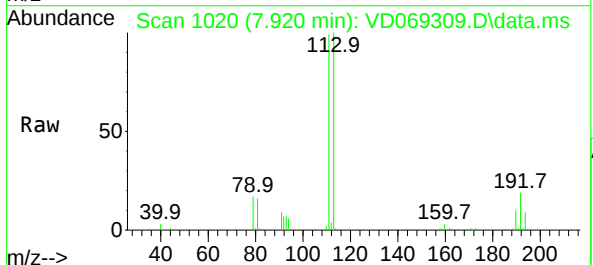
Instrument :
MSVOA_D
ClientSampled :

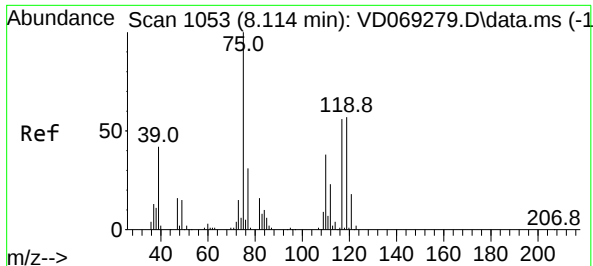
Tgt Ion:114 Resp: 573262
Ion Ratio Lower Upper
114 100
63 18.0 0.0 35.6
88 14.9 0.0 31.2



#35
Dibromofluoromethane
Concen: 52.13 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

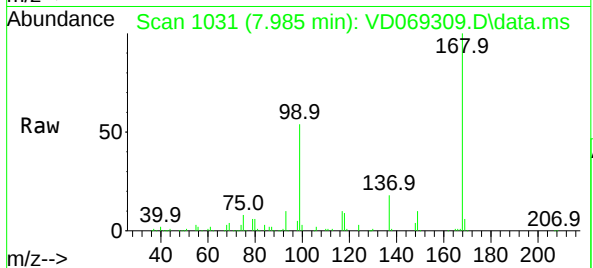
Tgt Ion:113 Resp: 187674
Ion Ratio Lower Upper
113 100
111 101.0 83.0 124.6
192 18.6 15.1 22.7



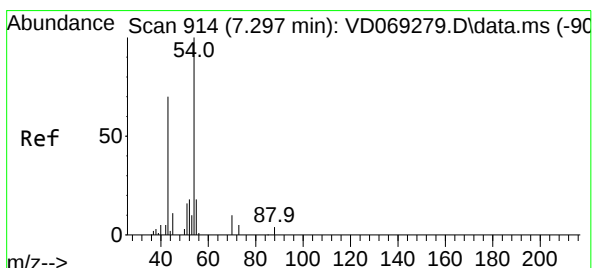
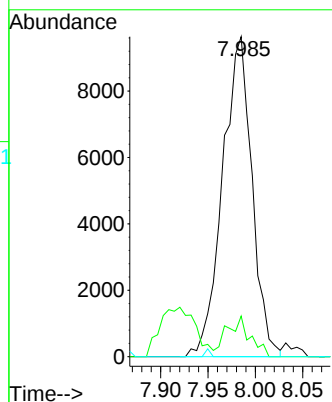
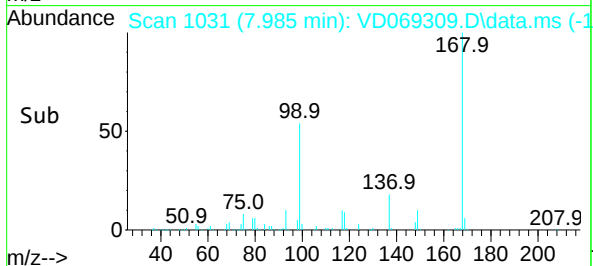


#36
1,1-Dichloropropene
Concen: 3.74 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.129 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

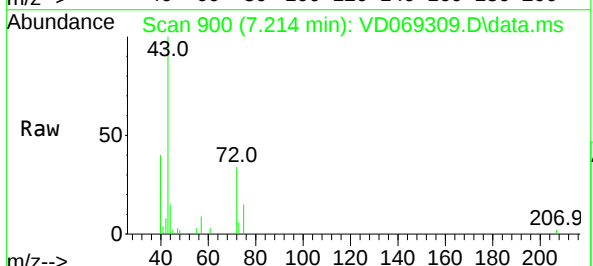
Instrument :
MSVOA_D
ClientSampled :



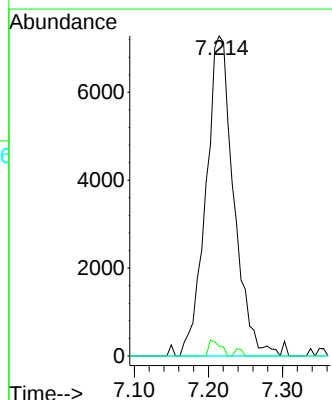
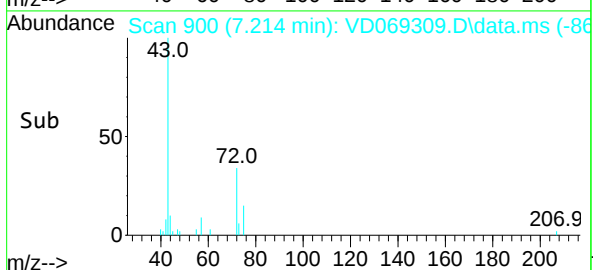
Tgt Ion: 75 Resp: 20839
Ion Ratio Lower Upper
75 100
110 0.0 18.4 55.2#
77 0.0 24.9 37.3#

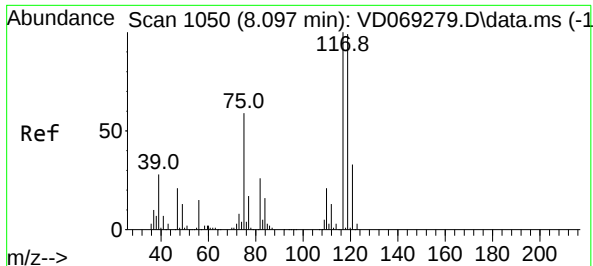


#37
Ethyl Acetate
Concen: 10.01 ug/l
RT: 7.214 min Scan# 900
Delta R.T. -0.082 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51



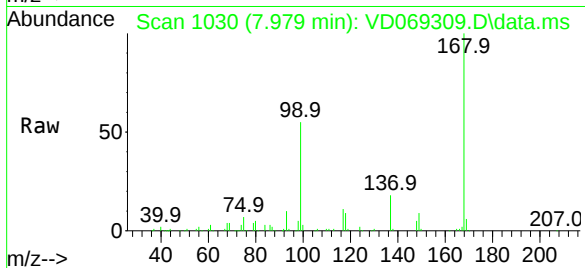
Tgt Ion: 43 Resp: 18944
Ion Ratio Lower Upper
43 100
61 2.1 11.0 16.6#
70 0.0 9.7 14.5#



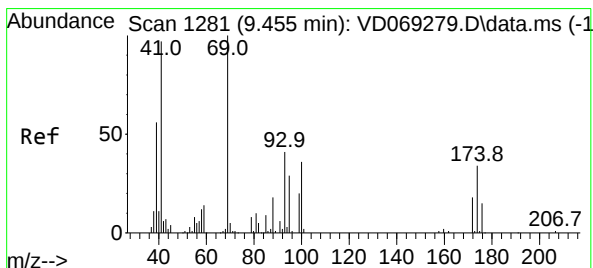
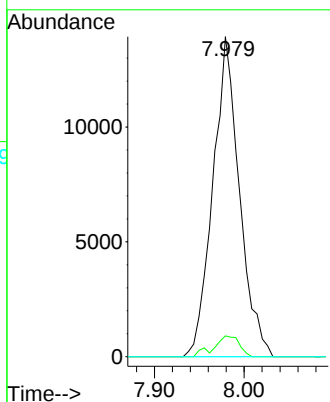
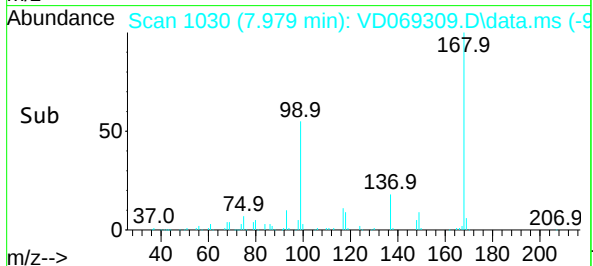


#38
Carbon Tetrachloride
Concen: 4.77 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

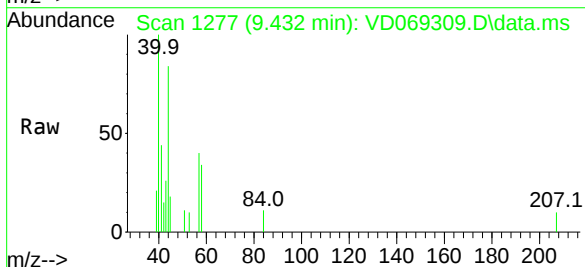
Instrument :
MSVOA_D
ClientSampled :



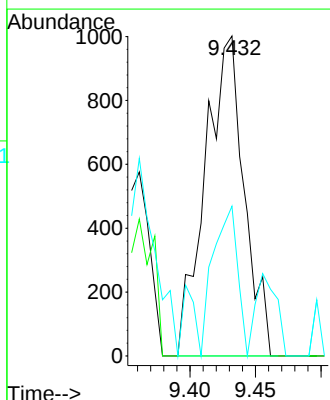
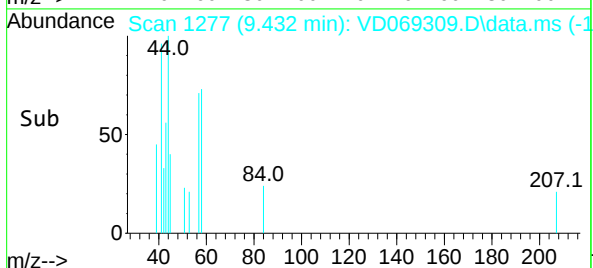
Tgt Ion:117 Resp: 28674
Ion Ratio Lower Upper
117 100
119 6.5 79.4 119.2#
121 0.0 26.1 39.1#

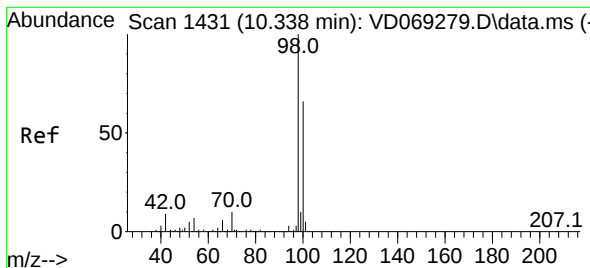


#48
Methyl methacrylate
Concen: 1.29 ug/l
RT: 9.432 min Scan# 1277
Delta R.T. -0.023 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51



Tgt Ion: 41 Resp: 2070
Ion Ratio Lower Upper
41 100
69 0.0 77.6 116.4#
39 29.4 45.3 67.9#

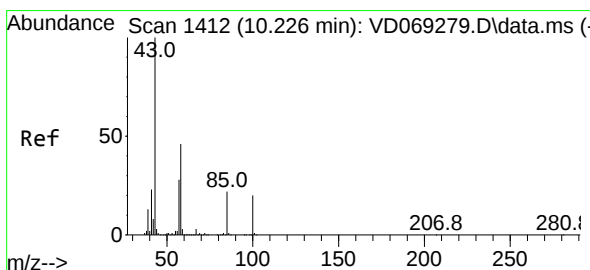
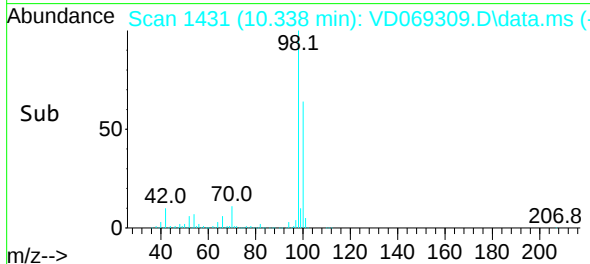
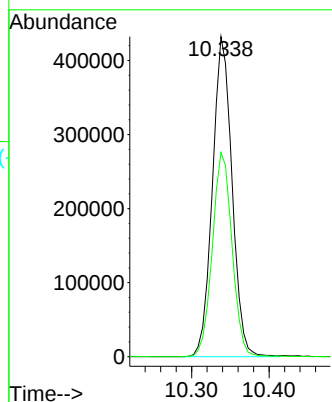
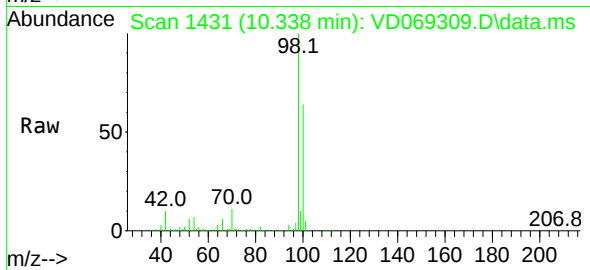




#50
Toluene-d8
Concen: 57.93 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

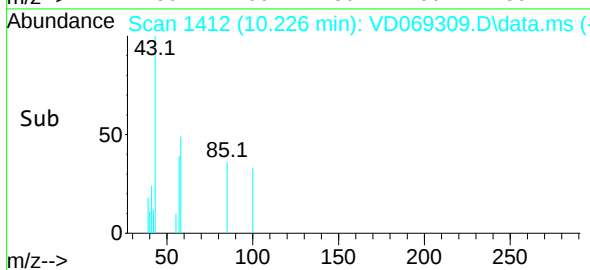
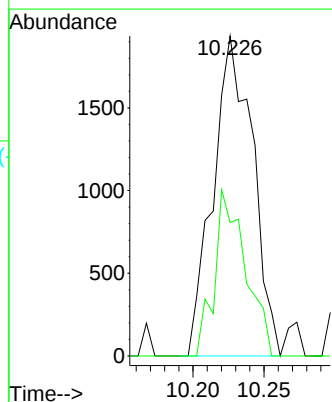
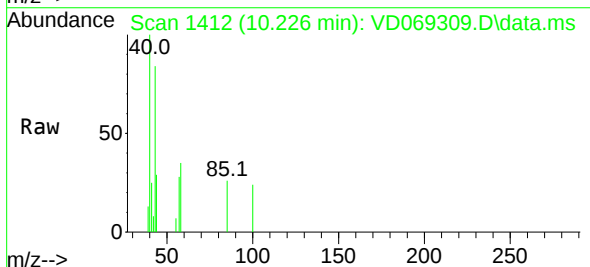
Instrument :
MSVOA_D
ClientSampled :

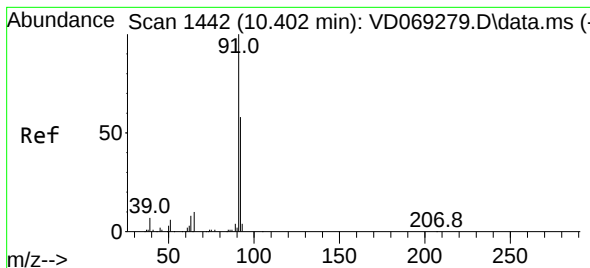
Tgt Ion: 98 Resp: 758298
Ion Ratio Lower Upper
98 100
100 64.2 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.11 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion: 43 Resp: 3758
Ion Ratio Lower Upper
43 100
58 40.6 35.1 52.7





#52

Toluene

Concen: 1.18 ug/l

RT: 10.402 min Scan# 1442

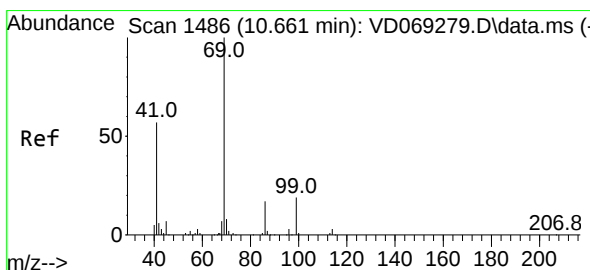
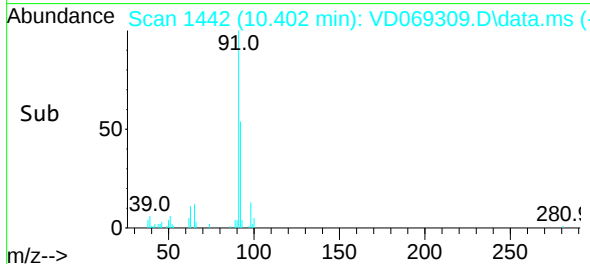
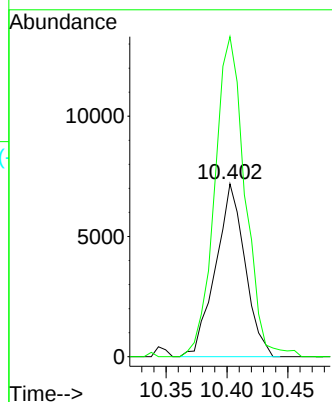
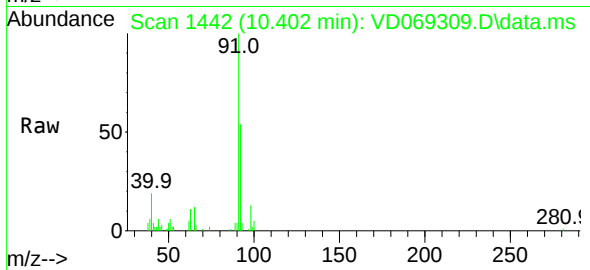
Delta R.T. 0.000 min

Lab File: VD069309.D

Acq: 02 Jun 2021 18:51

Tgt Ion: 92 Resp: 12079

Ion	Ratio	Lower	Upper
92	100		
91	191.7	138.4	207.6



#56

Ethyl methacrylate

Concen: 3.05 ug/l

RT: 10.685 min Scan# 1490

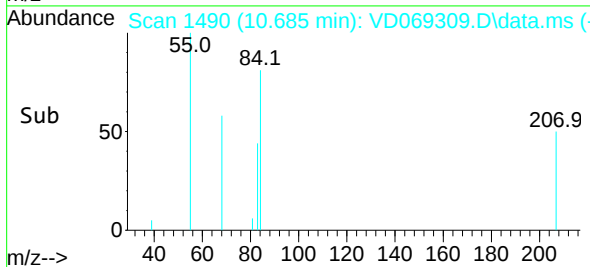
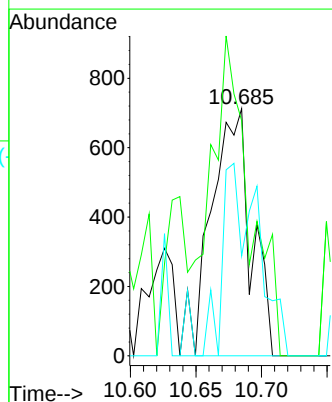
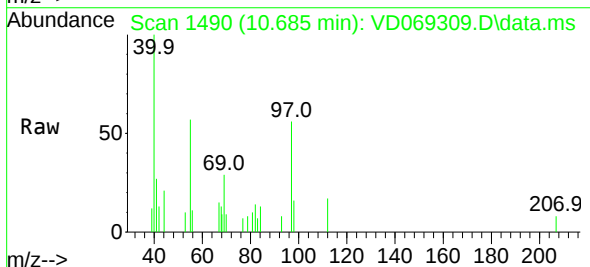
Delta R.T. 0.024 min

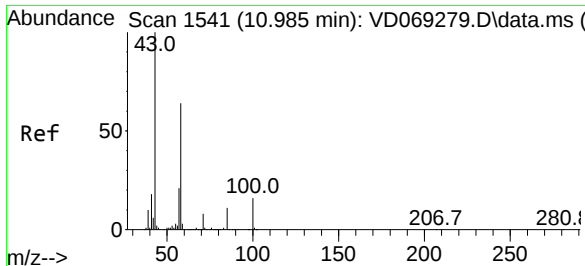
Lab File: VD069309.D

Acq: 02 Jun 2021 18:51

Tgt Ion: 69 Resp: 1518

Ion	Ratio	Lower	Upper
69	100		
41	118.6	45.4	68.2#
39	69.0	21.7	32.5#

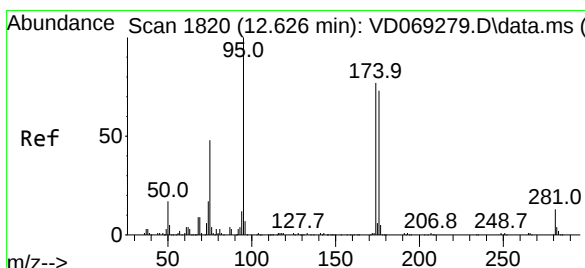
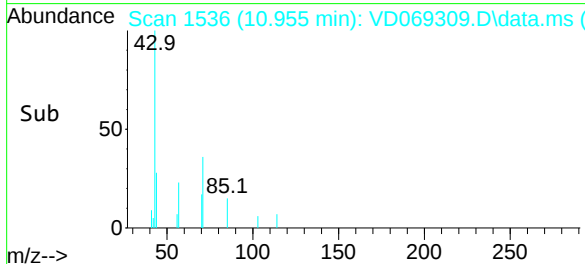
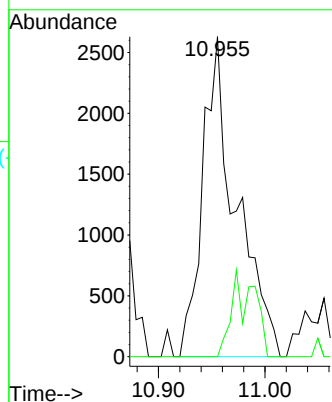
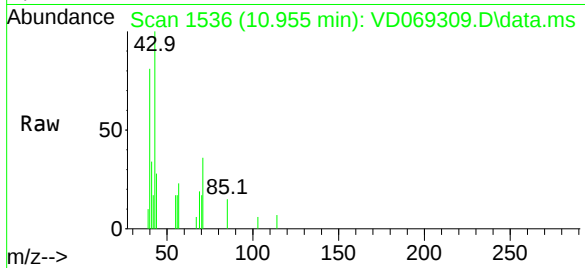




#59
2-Hexanone
Concen: 4.84 ug/l
RT: 10.955 min Scan# 1536
Delta R.T. -0.029 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

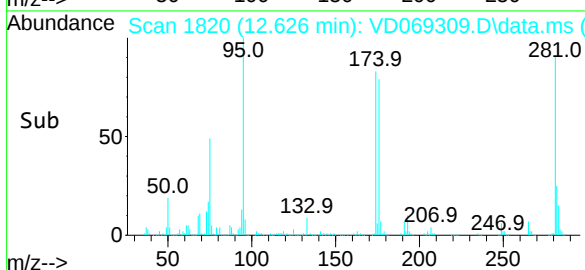
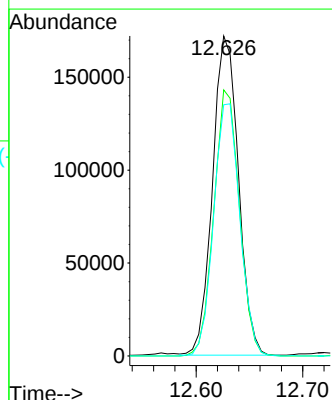
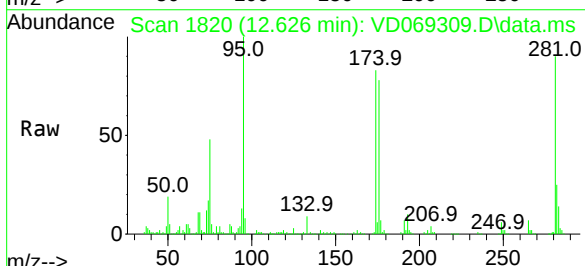
Instrument :
MSVOA_D
ClientSampled :

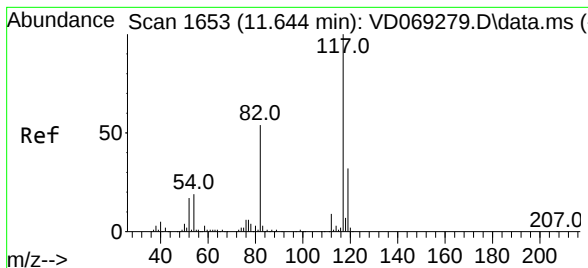
Tgt Ion: 43 Resp: 5758
Ion Ratio Lower Upper
43 100
58 8.7 30.8 92.3#



#62
4-Bromofluorobenzene
Concen: 67.65 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion: 95 Resp: 290167
Ion Ratio Lower Upper
95 100
174 82.0 0.0 162.8
176 79.9 0.0 154.4

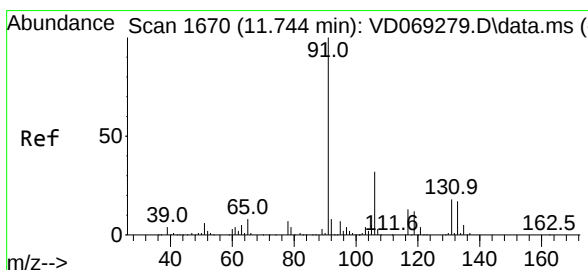
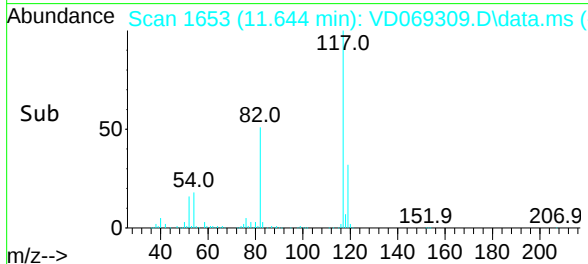
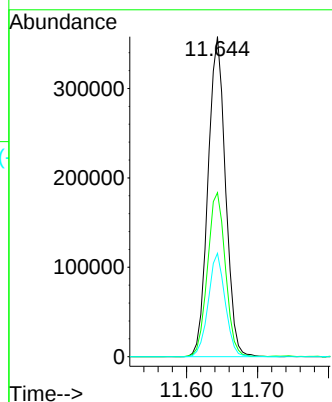
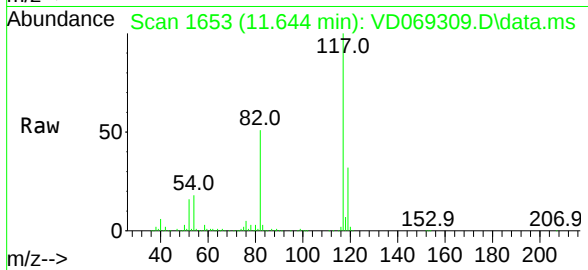




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

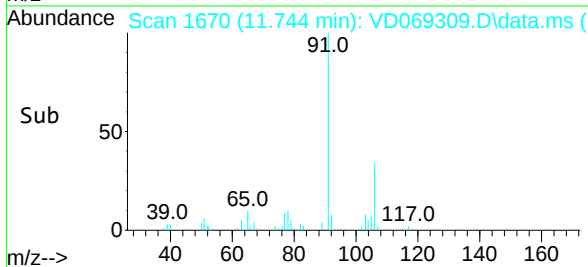
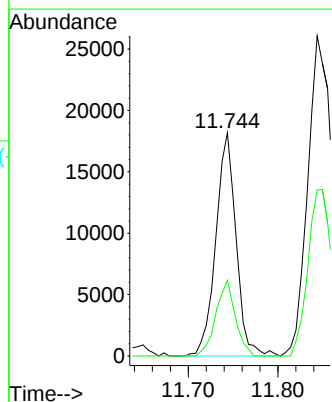
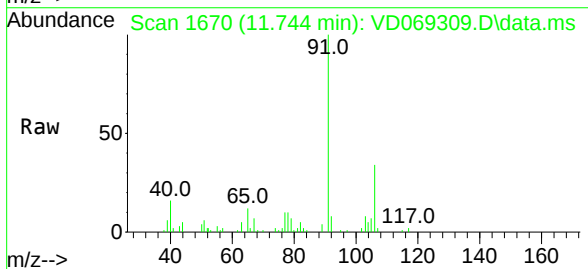
Instrument :
MSVOA_D
ClientSampleId :

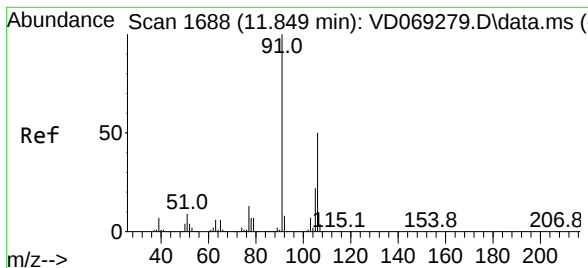
Tgt Ion:117 Resp: 612036
Ion Ratio Lower Upper
117 100
82 51.3 43.3 64.9
119 32.3 25.3 37.9



#67
Ethyl Benzene
Concen: 1.33 ug/l
RT: 11.744 min Scan# 1670
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion: 91 Resp: 28523
Ion Ratio Lower Upper
91 100
106 34.0 25.9 38.9

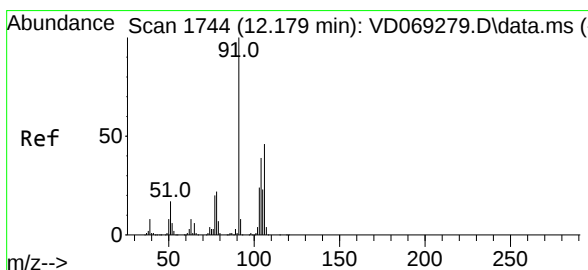
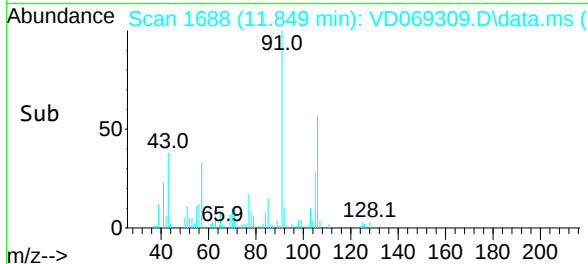
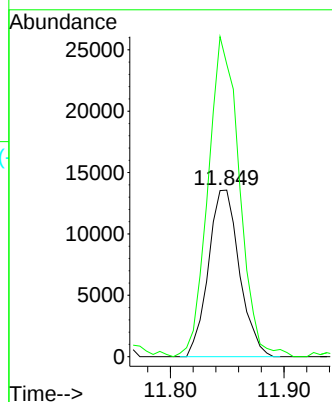
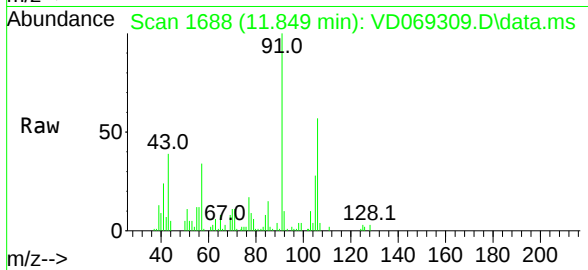




#68
m/p-Xylenes
Concen: 3.06 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

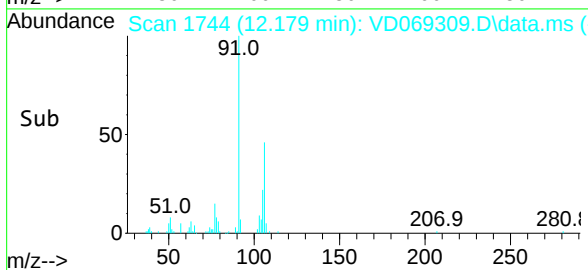
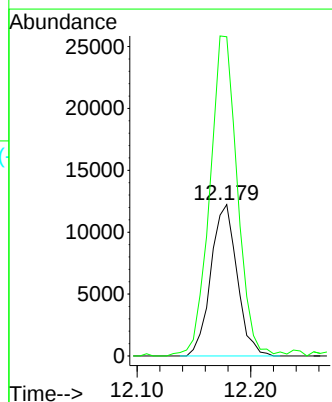
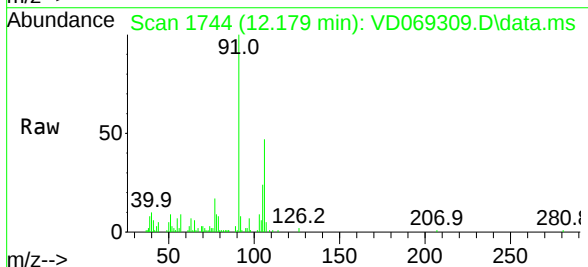
Instrument :
MSVOA_D
ClientSampled :

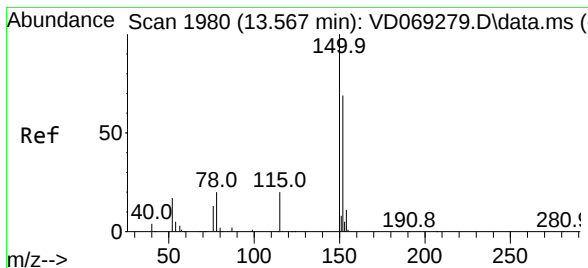
Tgt Ion:106 Resp: 25726
Ion Ratio Lower Upper
106 100
91 193.7 158.3 237.5



#69
o-Xylene
Concen: 2.63 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion:106 Resp: 19586
Ion Ratio Lower Upper
106 100
91 222.9 105.5 316.4

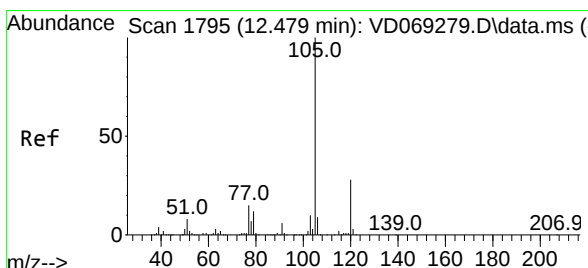
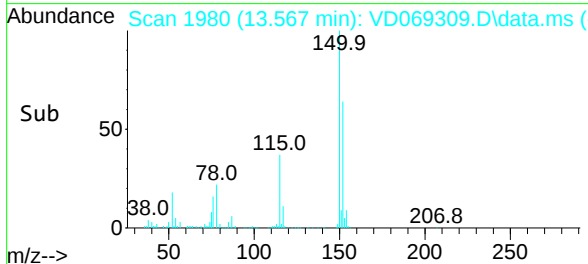
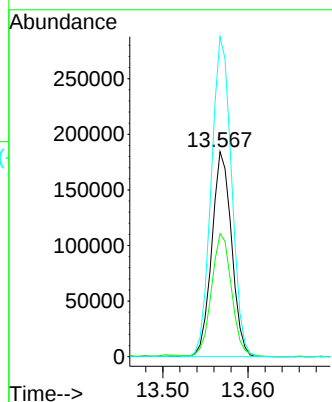
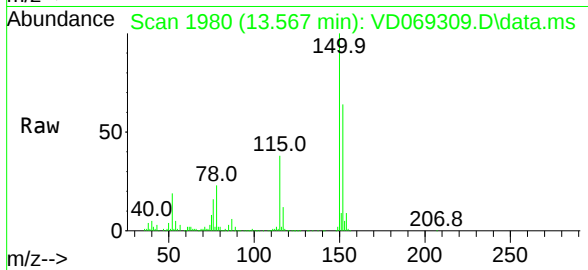




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

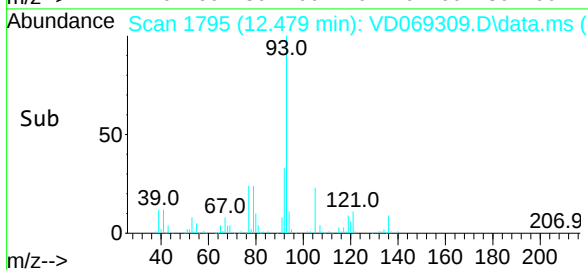
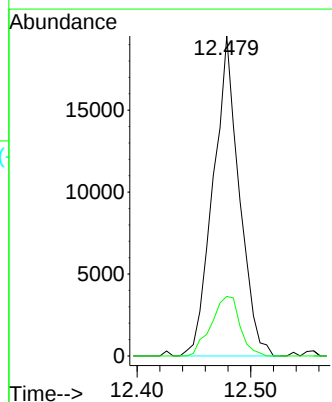
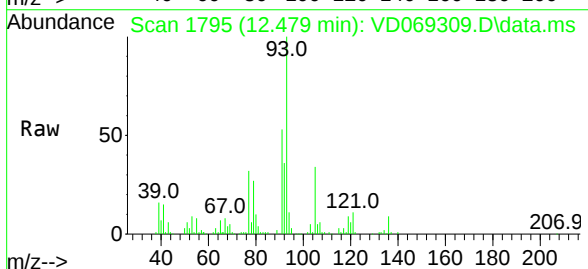
Instrument :
MSVOA_D
ClientSampled :

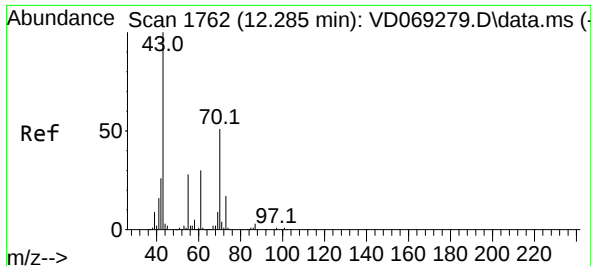
Tgt Ion:152 Resp: 297229
Ion Ratio Lower Upper
152 100
115 61.1 29.4 88.3
150 159.6 0.0 355.0



#73
Isopropylbenzene
Concen: 1.53 ug/l
RT: 12.479 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

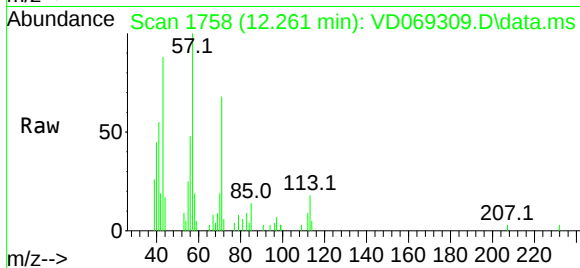
Tgt Ion:105 Resp: 31089
Ion Ratio Lower Upper
105 100
120 20.5 13.5 40.5



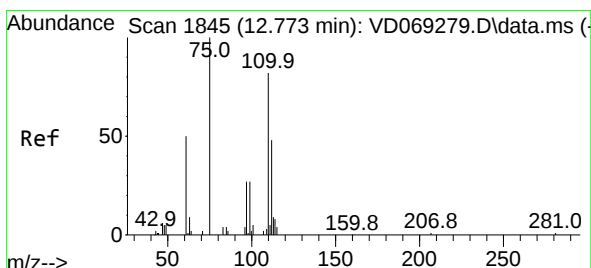
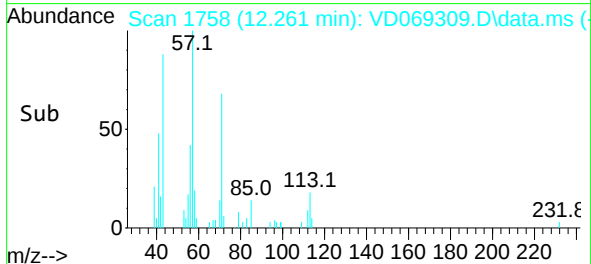
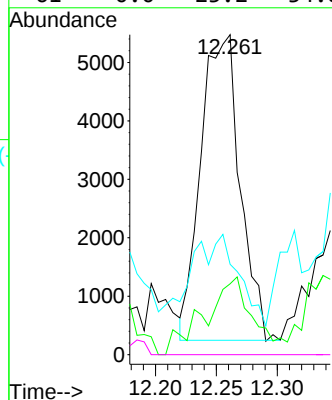


#74
N-amy1 acetate
Concen: 3.25 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.023 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Instrument :
MSVOA_D
ClientSampleId :

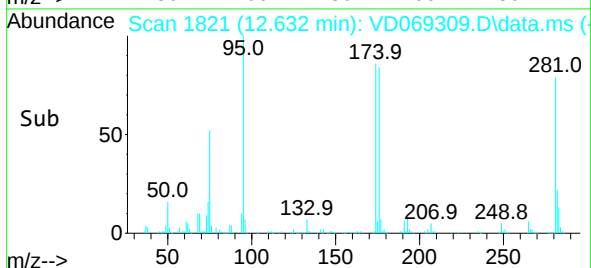
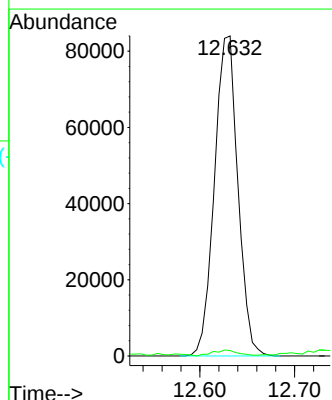
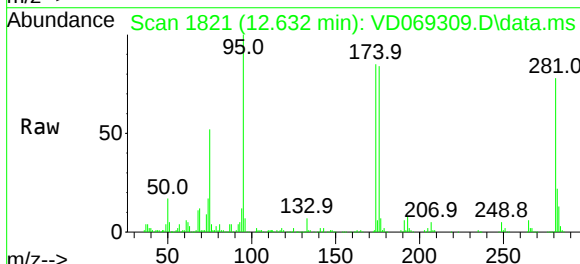


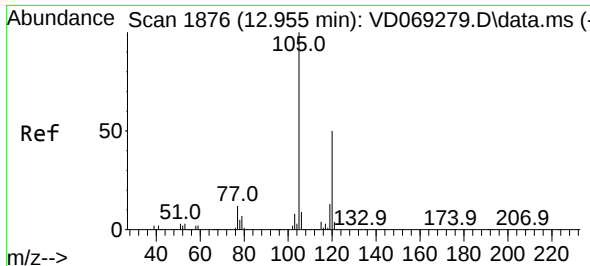
Tgt Ion: 43	Resp: 11689
Ion Ratio	Lower Upper
43 100	
70 31.9	40.9 61.3#
55 0.0	23.4 35.0#
61 0.0	23.2 34.8#



#76
1,2,3-Trichloropropane
Concen: 55.86 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.141 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion: 75	Resp: 144261
Ion Ratio	Lower Upper
75 100	
77 2.0	183.8 551.2#

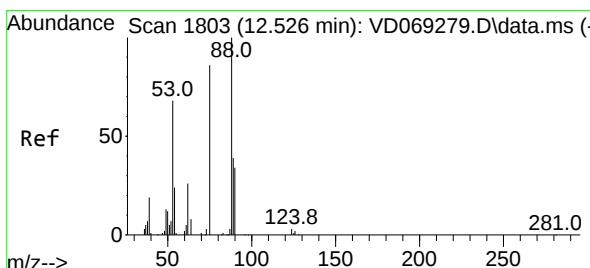
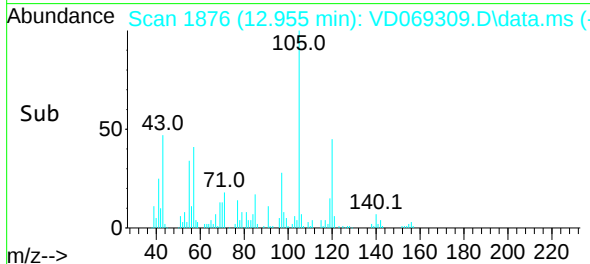
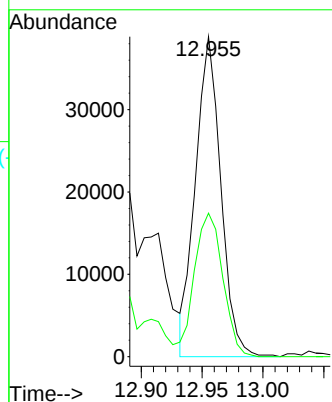
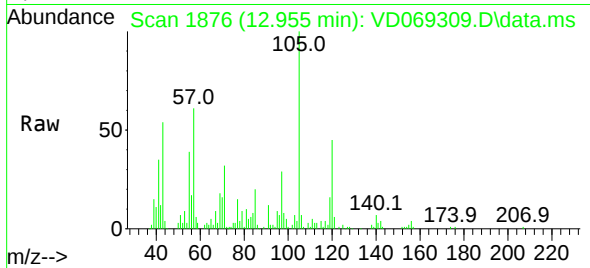




#80
1,3,5-Trimethylbenzene
Concen: 3.27 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

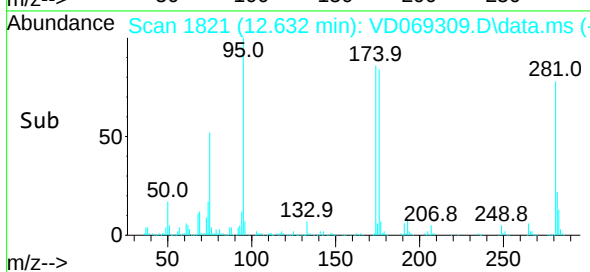
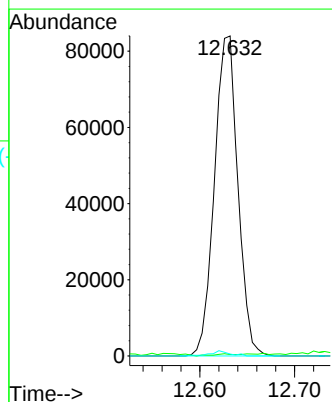
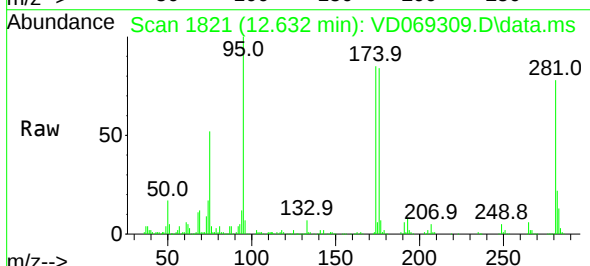
Instrument :
MSVOA_D
ClientSampleId :

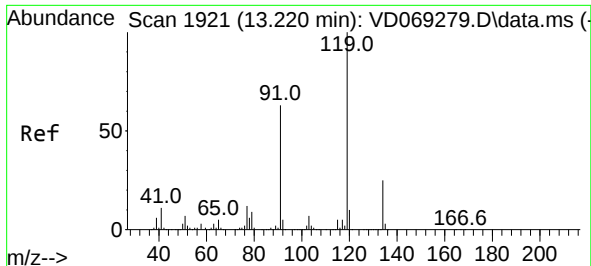
Tgt Ion:105 Resp: 56351
Ion Ratio Lower Upper
105 100
120 50.8 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 123.79 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion: 75 Resp: 144261
Ion Ratio Lower Upper
75 100
53 0.6 62.6 94.0#
89 1.3 35.6 53.4#

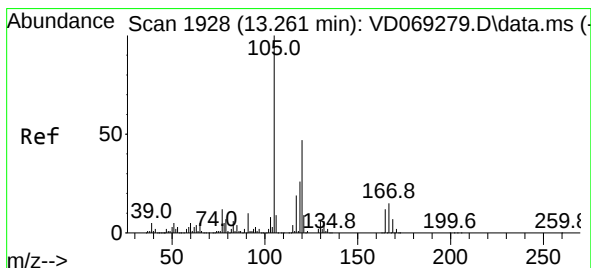
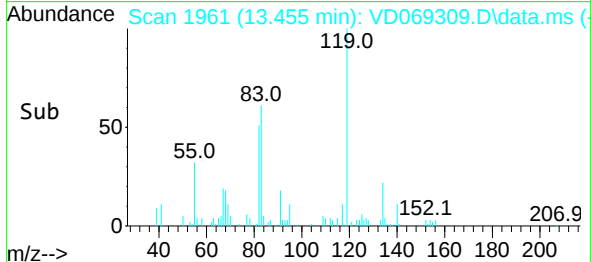
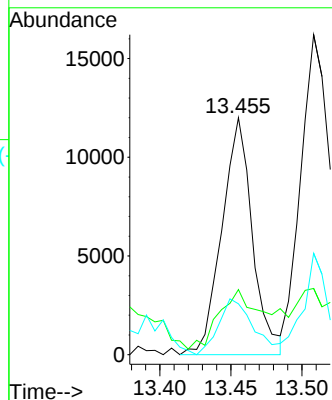
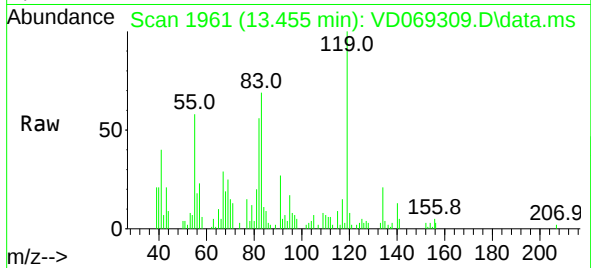




#83
tert-Butylbenzene
Concen: 1.24 ug/l
RT: 13.455 min Scan# 1961
Delta R.T. 0.235 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

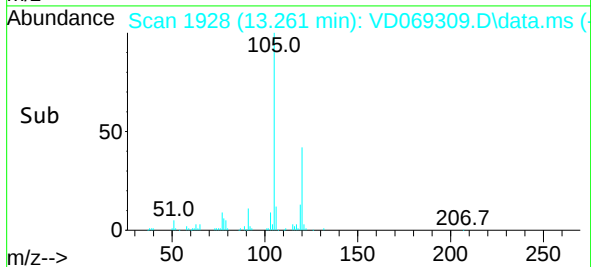
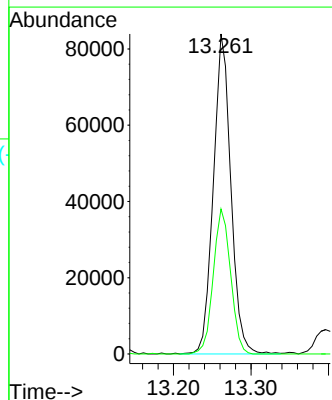
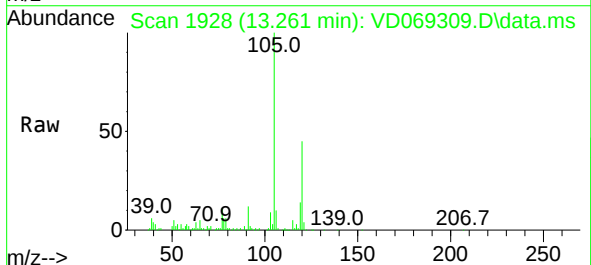
Instrument :
MSVOA_D
ClientSampleId :

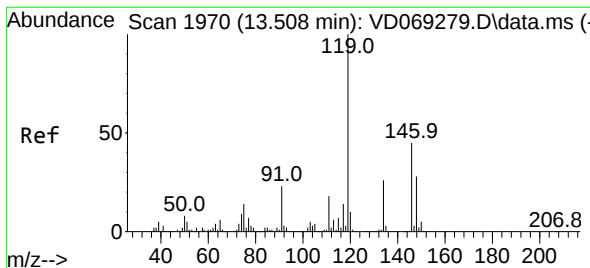
Tgt Ion:119 Resp: 17952
Ion Ratio Lower Upper
119 100
91 33.9 31.7 95.1
134 26.1 13.4 40.1



#84
1,2,4-Trimethylbenzene
Concen: 7.70 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion:105 Resp: 131997
Ion Ratio Lower Upper
105 100
120 44.8 22.6 67.8

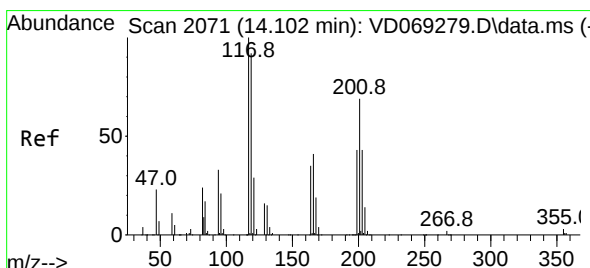
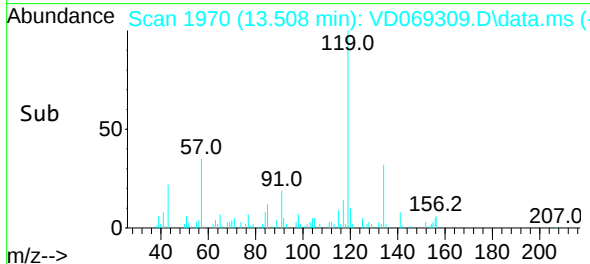
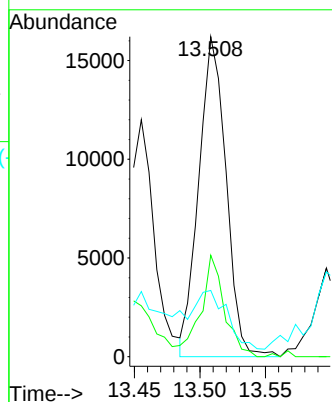
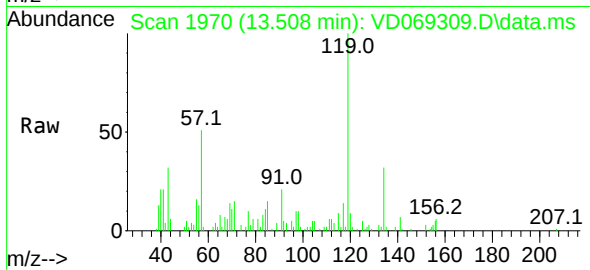




#86
p-Isopropyltoluene
Concen: 1.26 ug/l
RT: 13.508 min Scan# 1970
Delta R.T. 0.000 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

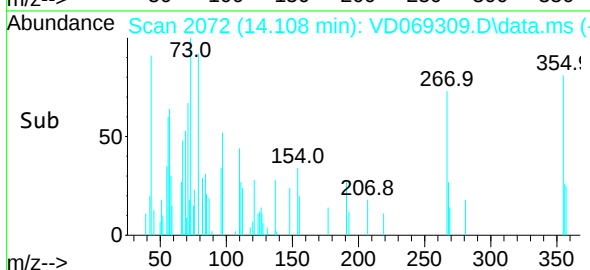
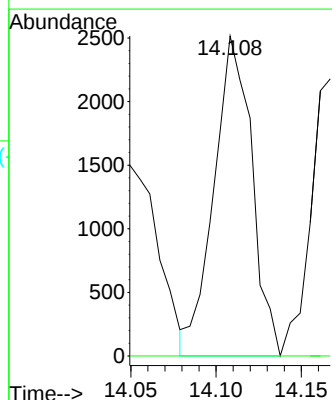
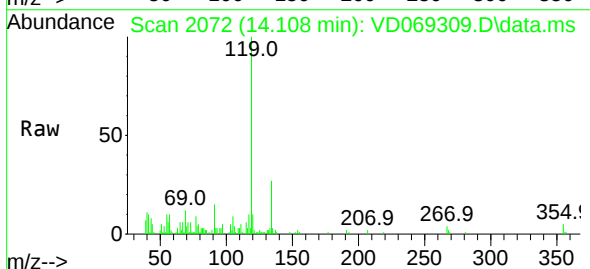
Instrument :
MSVOA_D
ClientSampled :

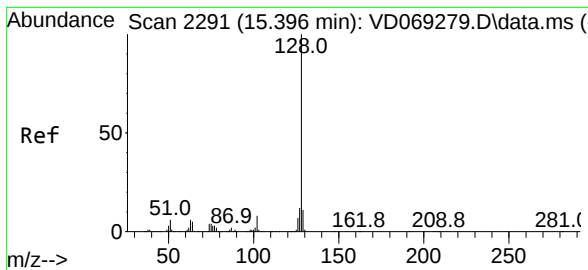
Tgt Ion:119 Resp: 23497
Ion Ratio Lower Upper
119 100
134 27.9 13.0 39.0
91 20.9 11.3 33.8



#90
Hexachloroethane
Concen: 1.10 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.006 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Tgt Ion:117 Resp: 3885
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#





#95
Naphthalene
Concen: 51.02 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. -0.006 min
Lab File: VD069309.D
Acq: 02 Jun 2021 18:51

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 518218
Ion Ratio Lower Upper
128 100
127 13.2 10.4 15.6
129 11.3 8.8 13.2

